

DIGITAL PRODUCTION CONSOLE/ PEAK METER BRIDGE/WOODEN SIDE PANELS DM2000/MB2000/SP2000

SERVICE MANUAL



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OVERALL CIRCUIT DIAGRAM	

This document is printed on chlorine free (ECF) paper with soy ink.

IMPORTANT NOTICE

This manual has been provided for the use of authorized Yamaha Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically Yamaha Products, are already known and understood by the users, and have therefore not been restated.

WARNING : Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all Yamaha product owners that all service required should be performed by an authorized Yamaha Retailer or the appointed service representative.

IMPORTANT : This presentation or sale of this manual to any individual or firm does not constitute authorization certification, recognition of any applicable technical capabilities, or establish a principal-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research engineering, and service departments of Yamaha are continually striving to improve Yamaha products. Modifications are, therefore, inevitable and changes in specification are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING : Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground bus in the unit (heavy gauge black wires connect to this bus.)

IMPORTANT : Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (Where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHATSOEVER SO EVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

WARNING: THIS APPARATUS MUST BE EARTHED

IMPORTANT

THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

GREEN-AND-YELLOW :	EARTH
BLUE :	NEUTRAL
BROWN :	LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:


The wire which is coloured GREEN and YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol \perp or coloured GREEN and YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

* This applies only to products distributed by YAMAHA KEMBLE MUSIC (U.K.) LTD.

■ WARNING

Components having special characteristics are marked  and must be replaced with parts having specification equal to those originally installed.

LITHIUM BATTERY HANDLING

This product uses a lithium battery for memory back-up.

WARNING : Lithium batteries are dangerous because they can be exploded by improper handling. Observe the following precautions when handling or replacing lithium batteries.

- Leave lithium battery replacement to qualified service personnel.
- Always replace with batteries of the same type.
- When installing on the PC board by soldering, solder using the connection terminals provided on the battery cells.
- Never solder directly to the cells. Perform the soldering as quickly as possible.
- Never reverse the battery polarities when installing.
- Do not short the batteries.
- Do not attempt to recharge these batteries.
- Do not disassemble the batteries.
- Never heat batteries or throw them into fire.

ADVARSEL!

Lithiumbatteri-Eksplosionsfare ved fejlagtig handling. Udskiftning ma kun ske med batteri af samme fabrikat og type. lever det brugte batteri tilbage til leverandren.

WARNING

Explosionsfara vid felaktigt batteribyte.

Anvand samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.

Kassera anvant batteri enligt fabrikantens instruktion.

VAROITUS

Paristo voi rajahtaa, jos se on virheellisesti asennettu.

Vaihda paristo ainoastaan laitevalmistajan suositteluun tyypin.

Havita kaytetty paristo valmistajan ohjeiden mukaisesti.

The following information complies with Dutch official Gazette 1995. 45; ESSENTIALS OF ORDER ON THE COLLECTION OF BATTERIES.

- Please refer to the disassembly procedure for the removal of Back-up Battery.
- Leest u voor het verwijderen van de backup batterij deze beschrijving.



Take care not to trap your fingers.

■ SPECIFICATIONS

• DM2000

Number of scene memories		99
Sampling Frequency	Internal	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz
	External	Normal rate: 44.1 kHz–10% to 48 kHz+6% Double rate: 88.2 kHz–10% to 96 kHz+6%
Signal Delay		Less than 2.3 ms CH INPUT to STEREO OUT (fs=48 kHz) Less than 1.2 ms CH INPUT to STEREO OUT (fs=96 kHz)
Fader		100 mm motorized with touch sense X 25
Fader Resolution		+10 to –96, –∞ dB (256 steps/100 mm) input faders 0 to –130, –∞ dB (256 steps/100 mm) master faders, stereo fader
Total Harmonic Distortion*1 (CH INPUT to STEREO OUT) (Input Gain=Min.)	fs=48 kHz	Less than 0.05% 20 Hz to 20 kHz @ +14 dB into 600 Ω Less than 0.01% 1 kHz @ +18 dB into 600 Ω (fs=48 kHz)
	fs=96 kHz	Less than 0.05% 20 Hz to 40 kHz @ +14 dB into 600 Ω Less than 0.01% 1 kHz @ +18 dB into 600 Ω
Frequency Response (CH INPUT to STEREO OUT)		20 Hz–20 kHz, 0.5, –1.5 dB @ +4 dB into 600 Ω (fs=48 kHz) 20 Hz–40 kHz, 0.5, –1.5 dB @ +4 dB into 600 Ω (fs=96 kHz)
Dynamic Range (maximum level to noise level)		110 dB typ. DA Converter (STEREO OUT) 108 dB typ. AD+DA (to STEREO OUT) @ fs=48 kHz 106 dB typ. AD+DA (to STEREO OUT) @ fs=96 kHz
Hum & Noise*2 (20 Hz–20 kHz) Rs=150 Ω Input Gain=Max. Input Pad =0 dB		–128 dB Equivalent Input Noise –92 dB residual output noise. STEREO OUT (STEREO OUT off) –92 dB (96 dB S/N) STEREO OUT (STEREO fader at nominal level and all CH INPUT faders at minimum level) –64 dB (68 dB S/N) STEREO OUTPUT (STEREO fader at nominal level and one CH INPUT fader at nominal level)
Maximum Voltage Gain		74 dB CH INPUT (CH1–24) to STEREO OUT/OMNI (BUS) OUT 74 dB CH INPUT (CH1–24) to OMNI (AUX) OUT (via pre input fader) 74 dB CH INPUT (CH1–24) to CONTROL ROOM MONITOR OUT (via STEREO bus)
Crosstalk (@ 1 kHz) Input Gain=Min.		–80 dB adjacent input channels (CH1–24) –80 dB input to output
AD Input (1–24: A/B)	Phantom switch	+48 V DC is supplied to A (XLR-3-31 type) input
	Pad switch	0/26 dB attenuation
	Gain control	44 dB (–60 to –16), detented
	Peak indicator	LED (red) turns on when post HA level reaches 3 dB below clipping
	Signal indicator	LED (green) turns on when post HA level reaches 20 dB below nominal
	Insert	OUT, IN (pre AD converter)
	Insert switch	on/off
	AD converter	24-bit linear, 128-times oversampling (fs=48 kHz)
Analog Input (2TR IN ANALOG 1, 2)	AD converter	24-bit linear, 128-times oversampling (fs=48 kHz)
Option Input (SLOT 1–6)	Available cards	Optional digital interface cards (MY8, MY4 series)
Digital Input (2TR IN DIGITAL 1–3)	SRC	On/off (1:3 and 3:1 maximum input to output sample rate ratio)

Input Channel CH1–96	Input patch	—	
	Phase	Normal/reverse	
	Gate-type ^{*3}	On/off	
		Key in: 12 ch Group (1–12, 13–24, 25–36, 37–48, 49–60, 61–72, 73–84, 85–96)/AUX1–12	
	Comp-type ^{*4}	On/off	
		Key in: self /Stereo Link	
		Pre EQ/pre fader/post fader	
	Attenuator	–96.0 to +12.0 dB (0.1 dB step)	
	EQ	4-band PEQ ^{*5}	
		On/off	
	Delay	0–43400 samples	
	On/off	—	
	Fader	100 mm motorized (INPUT/AUX1–12)	
	Aux send	On/off	
		AUX1–12; pre fader/post fader	
	Solo	On/off	
		Pre fader/after pan	
	Pan	127 positions (Left= 1–63, Center, Right= 1–63)	
	Surround pan	127 X 127 positions	
	LFE level	–∞, –96 dB to +10 dB (256 step)	
Routing	STEREO, BUS1–8, DIRECT OUT		
Direct out	Pre EQ/pre fader/post fader		
Metering	Displayed on LCD		
	Peak hold on/off		
TALKBACK	Level control	Analog rotary potentiometer	
	AD converter	24-bit linear, 128-times oversampling	
	Talkback select	Built-in microphone/AD IN 1–24	
	On/off	—	
	Slate	On/off	
OSCILLATOR	Level	0 to –96 dB (1 dB step)	
	On/off	—	
	Waveform	Sine 100 Hz, sine 1 kHz, sine 10 kHz, pink noise, burst noise	
	Routing	BUS1–8, AUX1–12, MATRIX 1L–4R, STEREO L, R	
STEREO OUT	DA converter	24-bit linear, 128-times oversampling	
OMNI OUT 1–8	Output patch	SURROUND MONITOR, STEREO, BUS1–8, AUX1–12, MATRIX1L–4R, DIRECT OUT 1–96, INSERT OUT (CH1–96, BUS1–8, AUX1–12, MATRIX 1L–4R, STEREO)	
	DA converter	24-bit linear, 128-times oversampling	
CONTROL ROOM MONITOR OUT (LARGE, SMALL)	Monitor select	STEREO, 2TR IN DIGITAL 1, 2TR IN DIGITAL 2, 2TR IN DIGITAL 3, 2TR IN ANALOG 1, 2TR IN ANALOG 2, ASSIGN 1, 2 (BUS 1–8/AUX 1–12/MATRIX 1–4)	
	Solo contrast	–96 to 0 dB (1 dB step)	
	Mono	On/off	
	Dimmer	On/off	
	DA converter	24-bit linear, 128-times oversampling	
	Level control	Analog rotary potentiometer	
	Phones level	Analog rotary potentiometer	
Small trim	Analog rotary potentiometer		

STUDIO MONITOR OUT	Monitor select	CONTROL ROOM, STEREO, AUX 11, AUX 12
	DA converter	24-bit linear, 128-times oversampling
	Level control	Analog rotary potentiometer
2TR OUT DIGITAL 1–3	Dither	On/off
		Word length 16, 20, 24-bit
	Output patch	STEREO, BUS1–8, AUX 1–12, MATRIX 1L–4R, DIRECT OUT 1–96, INSERT OUT, CONTROL ROOM
SRC	On/off (1:3 and 3:1 maximum input to output sample rate ratio)	
Option Output (SLOT 1–6)	Available card	Optional digital interface card (MY8, MY4 series)
	Output patch	SURROUND MONITOR, STEREO, BUS1–8, AUX1–12, MATRIX 1L–4R, DIRECT OUT 1–96, INSERT OUT (CH1–96, BUS1–8, AUX1–12, MATRIX 1L–4R, STEREO)
	Dither	On/off
Word length 16/20/24-bit		
Memory card slot		SmartMedia
STEREO	Comp-type ^{*4}	On/off
		Pre EQ/pre fader/post fader
	Attenuator	–96.0 to +12.0 dB (0.1 dB step)
	EQ	4-band PEQ ^{*5}
		On/off
	On/off	
	Fader	100 mm motorized
	Balance	127 positions (Left=1–63, Center, Right=1–63)
	Delay	0–43400 samples
	Matrix send	Pre fader/post fader
		Level ($-\infty$, –96 dB to +10 dB)
Pan: 127 positions (Left=1–63, Center, Right=1–63)		
Metering	Displayed on LCD	
	Peak hold on/off	
BUS1–8	Comp-type ^{*4}	On/off
		Pre EQ/pre fader/post fader
	Attenuator	–96.0 to +12.0 dB (0.1 dB step)
	EQ	4-band PEQ ^{*5}
		On/off
	On/off	—
	Fader	100 mm motorized
	Delay	0–43400 samples
	Matrix send	Pre fader/post fader
		Level ($-\infty$, –96 dB to +10 dB)
		Pan: 127 positions (Left=1–63, Center, Right=1–63)
	Bus to stereo	Level ($-\infty$, –130 dB to 0 dB)
		On/off
Pan: 127 positions (Left=1–63, Center, Right=1–63)		
Metering	Displayed on LCD	
	Peak hold on/off	

AUX1-12	Comp-type ^{*4}	On/off
		Pre EQ/pre fader/post fader
	Attenuator	-96.0 to +12.0 dB (0.1 dB step)
	EQ	4-band PEQ ^{*5}
		On/off
	On/off	—
	Fader	100 mm motorized
	Delay	0-43400 samples
Matrix send	Pre fader/post fader	
	Level (-∞, -96 dB to +10 dB)	
	Pan: 127 positions (Left=1-63, Center, Right=1-63)	
Metering	Displayed on LCD	
	Peak hold on/off	
MATRIX 1L-4R	Comp-type ^{*4}	On/off
		Pre EQ/pre fader/post fader
	Attenuator	-96.0 to +12.0 dB (0.1 dB step)
	EQ	4-band PEQ ^{*5}
		On/off
	On/off	—
	Fader	100 mm motorized
	Balance	127 positions (Left=1-63, Center, Right=1-63)
Delay	0-43400 samples	
Metering	Displayed on LCD	
	Peak hold on/off	
SURROUND MONITOR	Mute	On/off
	Solo	On/off
	Source	BUS1-8, SLOT 1-6
	Monitor to C-R	On/off
	Oscillator	Pink noise/500-2 kHz/1 kHz
	Monitor matrix	5.1→5.1, 5.1→3-1, 5.1→ST, 3.1→3.1, 3.1→ST
	Bass management	5 presets
Monitor alignment	ATT (-12.0 dB to 12 dB 0.1 dB step), Delay (0-30.0 msec 0.01 msec step)	
INTERNAL EFFECTS (EFFECT 1-8)	Bypass	On/off
	In/out	8-in, 8-out (EFFECT1-2): depends on effects type
		2-in, 2-out (EFFECT3-8): depends on effects type
	Effect-in from	AUX1-12/INSERT OUT/effect-out
Effect-out to	Input patch/effect-in	
GRAPHIC EQUALIZERS (GEQ 1-6)	On/off	—
	Band number	31
	Limit	±15 dB, ±12 dB, ±6 dB, -24 dB
	Insert position	BUS1-8/AUX1-12/STEREO L, R/MATRIX 1L-4R
Power Requirements	Japan	100 V, 50/60 Hz 230 W WITH OPTION 230 W WITHOUT OPTION 165 W
	U.S./Canada	120 V, 60 Hz 300 W
	Other	220-240 V, 50/60 Hz 300 W
Dimensions	(H x D x W)	257 x 821 x 906 mm (10.1" x 32.3" x 35.7")
Net weight		43 kg (94.8 lbs)
Operating free-air temperature range		10-35°C (50-95°F)
Storage temperature range		-20 to 60 °C (-4 to 140°F)

Supplied Accessories	AC Cable CD-ROM (Studio Manager)
Options	Digital interface card (MY8, MY4 series) PEAK METER BRIDGE: MB2000 SIDE PANEL: SP2000

*1. Total harmonic distortion is measured with a 6 dB/octave filter @ 80 kHz.

*2. Hum & Noise are measured with a 6 dB/octave filter @ 12.7 kHz; equivalent to a 20 kHz filter with infinite dB/octave attenuation.

*3. See "Gate Parameters" on page 8.

*4. See "Comp Parameters" on page 9.

*5. See "EQ Parameters" on page 8.

EQ Parameters

	LOW/HPF	L-MID	H-MID	HIGH /LPF
Q	0.1–10.0 (41 points) low shelving HPF	0.1–10.0 (41 points)		0.1–10.0 (41 points) high shelving LPF
F	21.2 Hz–20 kHz (1/12 oct step)			
G	±18 dB (0.1 dB step) HPF: on/off	±18 dB (0.1 dB step)		±18 dB (0.1 dB step) LPF: on/off

Gate Parameters

Gate	Threshold	–54 dB to 0 dB (0.1 dB step)
	Range	–70 dB to 0 dB (1 dB step)
	Attack	0 ms–120 ms (1 ms step)
	Hold	0.02 ms–1.96 s (216 points) @ 48 kHz
		0.02 ms–2.13 s (216 points) @ 44.1 kHz
		0.01 ms–981 ms (216 points) @ 96 kHz
		0.01 ms–1.06 s (216 points) @ 88.2 kHz
	Decay	5 ms–42.3 s (160 points) @ 48 kHz
		6 ms–46.0 s (160 points) @ 44.1 kHz
		3 ms–21.1 s (160 points) @ 96 kHz
3 ms–23.0 s (160 points) @ 88.2 kHz		
Ducking	Threshold	–54 dB to 0 dB (0.1 dB step)
	Range	–70 dB to 0 dB (1 dB step)
	Attack	0 ms–120 ms (1 ms step)
	Hold	0.02 ms–1.96 s (216 points) @ 48 kHz
		0.02 ms–2.13 s (216 points) @ 44.1 kHz
		0.01 ms–981 ms (216 points) @ 96 kHz
		0.01 ms–1.06 s (216 points) @ 88.2 kHz
	Decay	5 ms–42.3 s (160 points) @ 48 kHz
		6 ms–46.0 s (160 points) @ 44.1 kHz
		3 ms–21.1 s (160 points) @ 96 kHz
3 ms–23.0 s (160 points) @ 88.2 kHz		

Comp Parameters

Compressor	Threshold	-54 dB to 0 dB (0.1 dB step)
	Ratio (x :1)	x=1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 20, ∞ (16 points)
	Out gain	0 dB to +18 dB (0.1 dB step)
	Knee	Hard, 1, 2, 3, 4, 5 (6 step)
	Attack	0 ms–120 ms (1 ms step)
	Release	5 ms–42.3 s (160 points) @ 48 kHz
		6 ms–46.0 s (160 points) @ 44.1 kHz
		3 ms–21.1 s (160 points) @ 96 kHz
3 ms–23.0 s (160 points) @ 88.2 kHz		
Expander	Threshold	-54 dB to 0 dB (0.1 dB step)
	Ratio (x :1)	x=1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 20, ∞ (16 points)
	Out gain	0 dB to +18 dB (0.1 dB step)
	Knee	Hard, 1, 2, 3, 4, 5 (6 points)
	Attack	0 ms–120 ms (1 ms step)
	Release	5 ms–42.3 s (160 points) @ 48 kHz
		6 ms–46.0 s (160 points) @ 44.1 kHz
		3 ms–21.1 s (160 points) @ 96 kHz
3 ms–23.0 s (160 points) @ 88.2 kHz		
Compander H	Threshold	-54 dB to 0 dB (0.1 dB step)
	Ratio (x :1)	x=1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 20, ∞ (16 points)
	Out gain	-18 dB to 0 dB (0.1 dB step)
	Width	1 dB–90 dB (1 dB step)
	Attack	0 ms–120 ms (1 ms step)
	Release	5 ms–42.3 s (160 points) @ 48 kHz
		6 ms–46.0 s (160 points) @ 44.1 kHz
		3 ms–21.1 s (160 points) @ 96 kHz
3 ms–23.0 s (160 points) @ 88.2 kHz		
Compander S	Threshold	-54 dB to 0 dB (0.1 dB step)
	Ratio (x :1)	x=1, 1.1, 1.3, 1.5, 1.7, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 20 (15 points)
	Out gain	-18 dB to 0 dB (0.1 dB step)
	Width	1 dB–90 dB (1 dB step)
	Attack	0 ms–120 ms (1 ms step)
	Release	5 ms–42.3 s (160 points) @ 48 kHz
		6 ms–46.0 s (160 points) @ 44.1 kHz
		3 ms–21.1 s (160 points) @ 96 kHz
3 ms–23.0 s (160 points) @ 88.2 kHz		

Controls

Analog Section

INPUT 1–24	+48 V switch	ON/OFF
	PAD switch	0/26 dB
	GAIN control	–16 to –60 dB
	INSERT switch	ON/OFF
TALKBACK	TALKBACK LEVEL control	
STUDIO MONITOR OUT	STUDIO LEVEL control	
CONTROL ROOM MONITOR OUT	CONTROL ROOM LEVEL control	
CONTROL ROOM MONITOR OUT SMALL	SMALL TRIM control	
PHONES	PHONES LEVEL control	

Digital Section

FADER MODE Section	MATRIX SELECT	DISPLAY button
		MATRIX 1, MATRIX 2, MATRIX 3, MATRIX 4 buttons (w/LED)
	AUX SELECT	DISPLAY button
		AUX 1, AUX 2, AUX 3, AUX 4, AUX 5, AUX 6, AUX 7, AUX 8, AUX 9, AUX 10, AUX 11, AUX 12 buttons (w/LED)
FADER MODE	FADER, AUX/MTRX button (w/LED)	
ENCODER MODE	DISPLAY button	
	PAN, AUX/MTRX, ASSIGN 1, ASSIGN 2, ASSIGN 3, ASSIGN 4 buttons (w/LED)	
DISPLAY CONTROL Section	DISPLAY buttons	DATA, DIO, SETUP, UTILITY, MIDI, REMOTE, METER, VIEW, PAIR, GROUP, INPUT PATCH, OUTPUT PATCH
	EFFECTS/PLUG-INS	DISPLAY access, ▲, ▼
		INTERNAL EFFECTS, GRAPHIC EQUALIZERS, PLUG-INS, CHANNEL INSERTS 1, 2, 3, 4, 5, 6, 7, 8
		Parameter control: 1, 2, 3, 4
Others	◀, F1, F2, F3, F4, ▶ buttons	
	LCD contrast control	

SELECTED CHANNEL Section	ROUTING	DISPLAY button
		1, 2, 3, 4, 5, 6, 7, 8, STEREO, DIRECT, FOLLOW PAN buttons (w/LED)
	PHASE/INSERT	DISPLAY button
		∅, INSERT ON buttons (w/LED)
	DELAY	DISPLAY button
		ON button (w/LED)
		TIME control
		MIX/FB control (w/SW)
	AUX/MATRIX SEND	DISPLAY, BANK button
		ON button (w/LED) x 4
		LEVEL control (w/SW) x 4
	DYNAMICS	DISPLAY, GATE /COMP buttons
		GATE ON, COMP ON buttons (w/LED)
		Parameter control x 5
PAN/SURROUND	DISPLAY button	
	L, R, LINK, GRAB, EFFECT buttons (w/LED)	
	Pan control	
	Joystick (Sound image position control)	
EQUALIZER	DISPLAY button	
	EQ ON button (w/LED)	
	ATT control, GAIN controls: LOW, LOW-MID, HIGH-MID, HIGH	
	FREQUENCY/Q controls: LOW, LOW-MID, HIGH-MID, HIGH controls (w/SW)	
CH COPY/PASTE	COPY, PASTE buttons	
MONITOR Section	MONITOR	DISPLAY button
	STUDIO	CONTROL ROOM, STEREO, AUX 11, AUX 12 buttons (w/LED)
	SOLO	CLEAR button
		SOLO CONTRAST control
	CONTROL ROOM	STEREO: 2TR D1, 2TR D2, 2TR D3, 2TR A1, 2TR A2, STEREO, ASSIGN 1, ASSIGN 2 buttons (w/LED)
	SURROUND	BUS, ASSIGN 1, ASSIGN 2 buttons (w/LED)
	Others	SURROUND MONITOR LEVEL control
MONO, DIMMER, SMALL buttons (w/LED)		
TALKBACK	SLATE, TALKBACK buttons (w/LED)	
SCENE MEMORY, AUTOMIX and USER DEFINED KEYS section	SCENE MEMORY	DISPLAY button
		▲, ▼, STORE, RECALL buttons
	AUTOMIX	DISPLAY button
		ENABLE, REC, ABORT/UNDO, AUTOREC, RETURN, RELATIVE, TOUCH SENSE buttons (w/LED)
		OVERWRITE parameters: FADER, ON, PAN, SURROUND, AUX, AUX ON, EQ buttons (w/LED)
	USER DEFINED KEYS	DISPLAY button
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 buttons (w/LED)		

MACHINE CONTROL Section	TRACK ARMING	DISPLAY, ALL CLEAR buttons 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, MASTER, TRACK ARMING GROUP: A, B, C, D buttons (w/LED)
	LOCATOR	DISPLAY button LOCATE MEMORY: 1, 2, 3, 4, 5, 6, 7, 8, AUDITION, PRE, IN, OUT, POST, SET, MTR, RETURN TO ZERO, END, ONLINE, LOOP, QUICK PUNCH, ROLL BACK, REHEARSAL, MASTER buttons (w/LED)
	TRANSPORT CONTROL	REW, FF, STOP, PLAY, REC, SHUTTLE, SCRUB (w/LED)
CHANNEL STRIP Section	Encoders	x 24 (1–24)
	Buttons	AUTO x 24 (1–24), SEL x 24 (1–24), SOLO x 24 (1–24), ON x 24 (1–24)
	Faders (w/ touch sense)	x 24 (1–24)
MASTER Section	LAYER	Input CH: 1–24, 25–48, 49–72, 73–96, MASTER, REMOTE 1, REMOTE 2, REMOTE 3, REMOTE 4 buttons (w/LED)
	STEREO	AUTO, SEL, ON buttons (w/LED) Fader (w/touch sense) x 1
DATA ENTRY Section	Buttons	DISPLAY HISTORY: BACK, FORWARD, INC, DEC, ▲, ▼, ◀, ▶, ENTER buttons
	Encoder	Parameter wheel

Indicators

Analog Section

PEAK LED	x24	INPUT 1–24
SIGNAL LED	x24	INPUT 1–24

Digital Section

DISPLAY CONTROL Section	DISPLAY	320 X 240 dot graphic LCD (w/contrast control potentiometer)
SELECTED CHANNEL Section	DELAY	MIX, FB LEDs x2
	AUX / MATRIX SEND	BANK LEDs x3
	DYNAMICS	GATE, COMP LEDs x2
	PAN/SURROUND	Pan position LEDs x10
	EQUALIZER	FREQUENCY, Q LEDs 2 X 4 dB, Hz, kHz 3 X 4 3-digit numeric LEDs x4 (parameter value)
MONITOR Section	SOLO	LED x1
SCENE MEMORY section	Scene memory number	2-digit numeric LED x1
CHANNEL STRIP Section	CH NAME, routing, panning position, EQ, INS, DLY, COMP, GATE: on/ off, touch sense status, etc	2 color VFD (FL) units x3

Libraries

Effect library (EFFECT 1–8)	Presets	52 (EFFECT 3–8: 44)
	User memories	76
Compressor library	Presets	36
	User memories	92
Gate library	Presets	4
	User memories	124
EQ library	Presets	40
	User memories	160
Channel library	Presets	2
	User memories	127
GEQ library (GEQ 1–6)	Presets	1
	User memories	128
Surround Monitor library	Presets	1
	User memories	32
Input patch library	Presets	1
	User memories	32
Output patch library	Presets	1
	User memories	32
Bus to Stereo library	Presets	1
	User memories	32

Analog Input Spec

Input	PAD	GAIN	Actual Load Impedance	For Use With Nominal	Input level			Connector
					Sensitivity* ¹	Nominal	Max. before clip	
INPUT A/B 1–24	0	–60 dB	3k Ω	50–600 Ω Mics & 600 Ω Lines	–70 dB (0.245 mV)	–60 dB (0.775 mV)	–46 dB (3.88 mV)	A: XLR-3-31 type (Balanced)* ²
		–16 dB			–26 dB (38.8 mV)	–16 dB (0.123 V)	–2 dB (616 mV)	B: Phone jack (TRS)(Balanced)* ³
	26	0dB (775 mV)			+10 dB (2.45 V)	+24 dB (12.28 V)		
INSERT IN 1–24	—	—	10K Ω	600 Ω Lines	–6dB (388 mV)	+4 dB (1.23 V)	+18 dB (6.16 V)	Phone jack (TRS) (Balanced)* ³
2TR IN ANALOG 1 [L, R]	—	—	10K Ω	600 Ω Lines	+4 dB (1.23 V)	+4 dB (1.23 V)	+18 dB (6.16 V)	Phone jack (TRS) (Balanced)* ³
2TR IN ANALOG 2 [L, R]	—	—	10K Ω	600 Ω Lines	–10 dBV (0.316 V)	–10 dBV (0.316 V)	+4 dBV (1.58 V)	Phono (Unbalanced)

*1. Sensitivity is the lowest level that will produce an output of +4 dB (1.23 V) or the nominal output level when the unit is set to maximum gain. (All faders and level controls are maximum position.)

*2. XLR-3-31 type connectors are balanced (1=GND, 2=HOT, 3=COLD).

*3. Phone jacks are balanced (Tip=HOT, Ring=COLD, Sleeve=GND).

In these specifications, when dB represents a specific voltage, 0 dB is referenced to 0.775 Vrms.

For 2TR IN ANALOG 1, 2 levels, 0 dBV is referenced to 1.00 Vrms.

All input AD converters (except INSERT IN 1–24) are 24-bit linear, 128-times oversampling.

+48 V DC (phantom power) is supplied to CH INPUT (1–24) XLR type connectors via individual switches.

Analog Output Spec

Output	Actual Source Impedance	For Use With Nominal	GAIN SW	Output level		Connector
				Nominal	Max. before clip	
STEREO OUT [L, R]	600 Ω	10k Ω Lines	—	–10 dBV (0.316 V)	+4 dBV (1.58 V)	Phono (Unbalanced)
	150 Ω	600 Ω Lines	—	+4 dB (1.23 V)	+18 dB (6.16 V)	XLR-3-32 type (Balanced)* ¹
STUDIO MONITOR OUT [L, R]	150 Ω	10k Ω Lines	—	+4 dB (1.23 V)	+18 dB (6.16 V)	Phone Jack (TRS) (Balanced)* ²
C-R MONITOR OUT LARGE [L, R]	150 Ω	600 Ω Lines	—	+4 dB (1.23 V)	+18 dB (6.16 V)	XLR-3-32 type (Balanced)* ¹
C-R MONITOR OUT SMALL [L, R]	150 Ω	600 Ω Lines	—	+4 dB (1.23 V)	+18 dB (6.16 V)	XLR-3-32 type (Balanced)* ¹
OMNI OUT 1–8	150 Ω	10k Ω Lines	+18 dB (default)	+4 dB (1.23 V)	+18 dB (6.16 V)	Phone Jack (TRS) (Balanced)* ²
			+4 dB	–10 dB (0.245 V)	+4 dB (1.23 V)	
INSERT OUT 1–24	600 Ω	10k Ω Lines	—	+4 dB (1.23 V)	+18 dB (6.16 V)	Phone Jack (TRS) (Balanced)* ²
PHONES	100 Ω	8 Ω Lines	—	4 mW	25 mW	Stereo Phone Jack (TRS) (Unbalanced)* ³
		40 Ω Lines	—	12 mW	75 mW	

*1. XLR-3-32 type connectors are balanced (1=GND, 2=HOT, 3=COLD).

*2. Phone jacks are balanced (Tip=HOT, Ring=COLD, Sleeve=GND).

*3. PHONES stereo phone jack is unbalanced (Tip=LEFT, Ring=RIGHT, Sleeve=GND).

STEREO OUT [L, R], 0 dBV is referenced to 1.00 Vrms.

In these specifications, when dB represents a specific voltage, 0 dB is referenced to 0.775 Vrms.

All output DA converters (except INSERT OUT 1–24) are 24-bit, 128-times oversampling.

Digital Input Spec

Input		Format	Data length	Level	Connector
2TR IN DIGITAL	1	AES/EBU	24-bit	RS422	XLR-3-31 type (Balanced) ^{*1}
	2	AES/EBU	24-bit	RS422	XLR-3-31 type (Balanced) ^{*1}
	3	IEC-60958	24-bit	0.5 Vpp/75 Ω	PHONO
CASCADE IN		—	—	RS422	D-SUB Half Pitch Connector 68P (Female)

*1. XLR-3-31 type connectors are balanced (1=GND, 2=HOT, 3=COLD).

Digital Output Spec

Output		Format	Data length	Level	Connector
2TR OUT DIGITAL	1	AES/EBU ^{*1} Professional use	24-bit ^{*2}	RS422	XLR-3-32 type (Balanced) ^{*3}
	2	AES/EBU ^{*1} Professional use	24-bit ^{*2}	RS422	XLR-3-32 type (Balanced) ^{*3}
	3	IEC-60958 ^{*4} Consumer use	24-bit ^{*2}	0.5V pp/75 Ω	Phono
CASCADE OUT		—	—	RS422	D-SUB Half Pitch Connector 68P (Female)

*1. Channel status of 2TR OUT DIGITAL 1, 2
Type: 2 audio channels
Emphasis: NO
Sampling rate: depends on the internal configuration

*2. Dither: word length 16/20/24 bit

*3. XLR-3-32 type connectors are balanced (1=GND, 2=HOT, 3=COLD).

*4. Channel status of 2TR OUT DIGITAL 3
Type: 2 audio channels
Category code: 2 channel PCM encoder/decoder
Copy prohibit: NO
Emphasis: NO
Clock accuracy: Level II (1000 ppm)
Sampling rate: depends on the internal configuration

I/O Slot Spec

Each I/O SLOT accepts a digital interface card. Only SLOT #1 has a serial interface.

Card Name	Function	Accept	Input	Output	Number of available cards
MY8-AT	ADAT	YES	8 IN	8 OUT (depends on output patch) ^{*1}	6
MY8-TD	TASCAM	YES	8 IN	8 OUT (depends on output patch) ^{*1}	6
MY8-AE	AES/EBU	YES	8 IN	8 OUT (depends on output patch) ^{*1}	6
MY4-AD	ANALOG IN	YES	4 IN	—	6
MY8-AD	ANALOG IN	YES	8 IN	—	6
MY4-DA	ANALOG OUT	YES	—	4 OUT (depends on output patch) ^{*1}	6
MY8-AD24	ANALOG IN	YES	8 IN	—	6
MY8-AD96	ANALOG IN	YES	8 IN	—	6
MY8-DA96	ANALOG OUT	YES	—	8 OUT (depends on output patch) ^{*1}	6
MY8-AE96S	AES/EBU	YES	8 IN	8 OUT (depends on output patch) ^{*1}	4
MY8-AE96	AES/EBU	YES	8 IN	8 OUT (depends on output patch) ^{*1}	6

*1. See the Digital I/O chapter.
Details depend on each interface card.

Control I/O Spec

I/O Port	Format	Level	Connector in Console	
TO HOST	Serial	—	RS422	Mini DIN Connector 8P
	USB	USB 1.1	0 V–3.3 V	B type USB connector
MIDI	IN	MIDI	—	DIN Connector 5P
	OUT	MIDI	—	DIN Connector 5P
	THRU	MIDI	—	DIN Connector 5P
TIME CODE IN	MTC	MIDI	—	DIN Connector 5P
	SMPTE	SMPTE	Nominal –10 dB/10k Ω	XLR-3-31 type (Balanced) ^{*1}
WORD CLOCK	IN	—	TTL/75 Ω (ON/OFF) ^{*2}	BNC Connector
	OUT 1, 2	—	TTL/75 Ω	BNC Connector
CONTROL	—	—	—	D-SUB Connector 25P (Female)
REMOTE	—	—	RS422	D-SUB Connector 9P (Male)
KEYBOARD	PS/2	—	—	DIN Connector 6P
STORAGE CARD	—	—	—	SmartMedia slot
METER	—	—	RS422	D-SUB Connector 15P (Female)

*1. XLR-3-31 type connectors are balanced (1=GND, 2=HOT, 3=COLD).

*2. This switch is on the rear panel.

Connector Pin Assignments

CASCADE IN

Pin	Signal	Pin	Signal
1	GND	35	GND
2	INPUT 1-2(+)	36	INPUT 1-2(-)
3	INPUT 3-4(+)	37	INPUT 3-4(-)
4	INPUT 5-6(+)	38	INPUT 5-6(-)
5	INPUT 7-8(+)	39	INPUT 7-8(-)
6	INPUT 9-10(+)	40	INPUT 9-10(-)
7	INPUT 11-12(+)	41	INPUT 11-12(-)
8	INPUT 13-14(+)	42	INPUT 13-14(-)
9	INPUT 15-16(+)	43	INPUT 15-16(-)
10	DTR IN(+)	44	DTR IN(-)
11	RTS OUT(+)	45	RTS OUT(-)
12	GND	46	GND
13	WORD CLOCK IN(+)	47	WORD CLOCK IN(-)
14	WORD CLOCK OUT(+)	48	WORD CLOCK OUT(-)
15	CONTROL IN(+)	49	CONTROL IN(-)
16	CONTROL OUT(+)	50	CONTROL OUT(-)
17	GND	51	ID6 IN
18	GND	52	ID6 OUT
19	INPUT 17-18(+)	53	INPUT 17-18(-)
20	INPUT 19-20(+)	54	INPUT 19-20(-)
21	INPUT 21-22(+)	55	INPUT 21-22(-)
22	INPUT 23-24(+)	56	INPUT 23-24(-)
23	RESERVED	57	RESERVED
24	RESERVED	58	RESERVED
25	RESERVED	59	RESERVED
26	RESERVED	60	RESERVED
27	ID0 IN	61	ID1 IN
28	ID2 IN	62	ID3 IN
29	ID4 IN	63	ID5 IN
30	ID0 OUT	64	ID1 OUT
31	ID2 OUT	65	ID3 OUT
32	ID4 OUT	66	ID5 OUT
33	MSB IN	67	2CH/LINE IN
34	FG	68	FG

CASCADE OUT

Pin	Signal	Pin	Signal
1	GND	35	GND
2	OUTPUT 1-2(+)	36	OUTPUT 1-2(-)
3	OUTPUT 3-4(+)	37	OUTPUT 3-4(-)
4	OUTPUT 5-6(+)	38	OUTPUT 5-6(-)
5	OUTPUT 7-8(+)	39	OUTPUT 7-8(-)
6	OUTPUT 9-10(+)	40	OUTPUT 9-10(-)
7	OUTPUT 11-12(+)	41	OUTPUT 11-12(-)
8	OUTPUT 13-14(+)	42	OUTPUT 13-14(-)
9	OUTPUT 15-16(+)	43	OUTPUT 15-16(-)
10	DTR OUT(+)	44	DTR OUT(-)
11	RTS IN(+)	45	RTS IN(-)
12	GND	46	GND
13	WORD CLOCK OUT(+)	47	WORD CLOCK OUT(-)
14	WORD CLOCK IN(+)	48	WORD CLOCK IN(-)
15	CONTROL OUT(+)	49	CONTROL OUT(-)
16	CONTROL IN(+)	50	CONTROL IN(-)
17	GND	51	ID6 OUT
18	GND	52	ID6 IN
19	OUTPUT 17-18(+)	53	OUTPUT 17-18(-)
20	OUTPUT 19-20(+)	54	OUTPUT 19-20(-)
21	OUTPUT 21-22(+)	55	OUTPUT 21-22(-)
22	OUTPUT 23-24(+)	56	OUTPUT 23-24(-)
23	RESERVED	57	RESERVED
24	RESERVED	58	RESERVED
25	RESERVED	59	RESERVED
26	RESERVED	60	RESERVED
27	ID0 OUT	61	ID1 OUT
28	ID2 OUT	62	ID3 OUT
29	ID4 OUT	63	ID5 OUT
30	ID0 IN	64	ID1 IN
31	ID2 IN	65	ID3 IN
32	ID4 IN	66	ID5 IN
33	MSB OUT	67	2CH/LINE OUT
34	FG	68	FG

REMOTE Port

Pin	Signal	Pin	Signal
1	GND	6	RX+/GND ^{*1}
2	RX-/RX- ^{*1}	7	RTS/RX+ ^{*1}
3	TX-/TX+ ^{*1}	8	CTS/TX- ^{*1}
4	TX+/GND ^{*1}	9	GND
5	N.C.		

*1. RS422 (for AD824)/SONY 9-pin protocol (P2).

CONTROL Port

Pin	Signal	Pin	Signal
1	GPO0	14	GPO1
2	GPO2	15	GPO3
3	GPO4	16	GPO5
4	GPO6	17	GPO7
5	GND	18	GND
6	GND	19	GND
7	GND	20	GND
8	GND	21	+5V
9	+5V	22	GPI0
10	GPI1	23	N.C.
11	N.C.	24	SOLO ^{*1}
12	SMODE ^{*1}	25	MAS/SLV ^{*1}
13	SPARE ^{*1}		

*1. For 02R SOLO control.

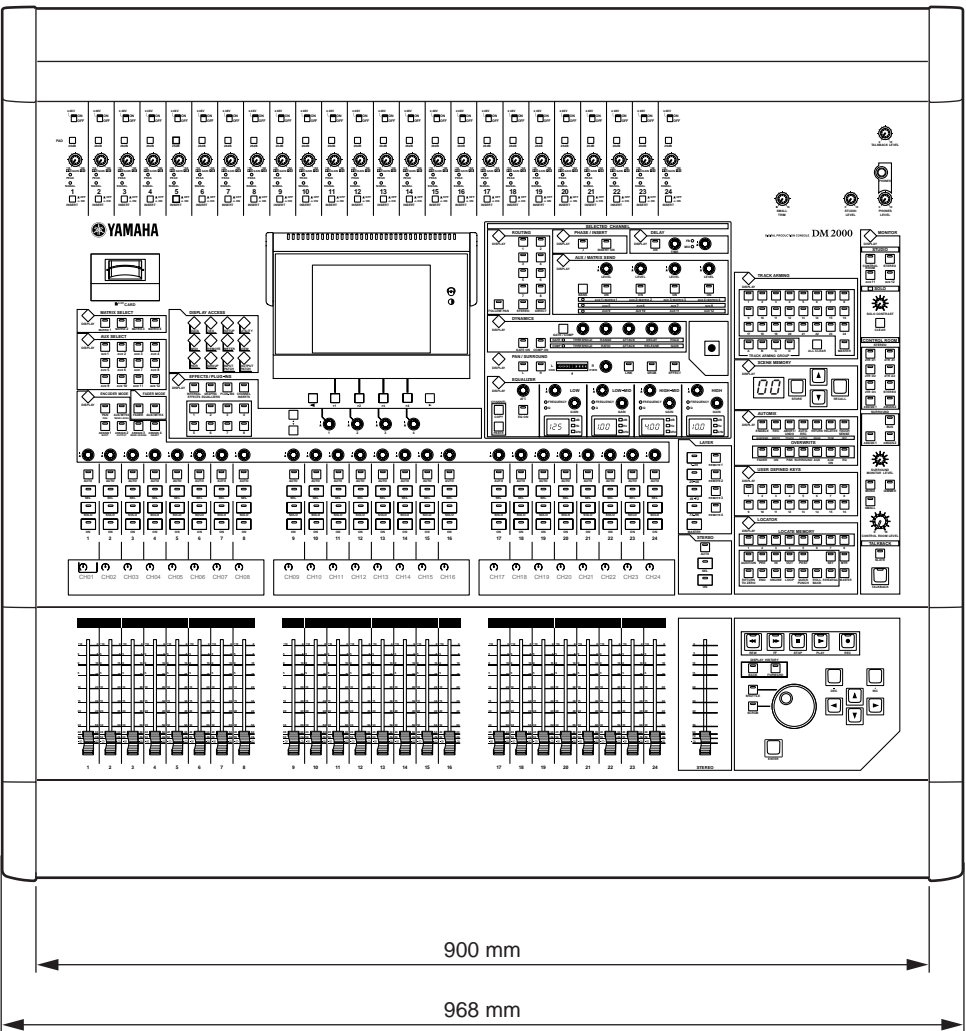
• MB2000

Dimensions (W X H X D) : 904.0 X 123.5 X 95.0 mm

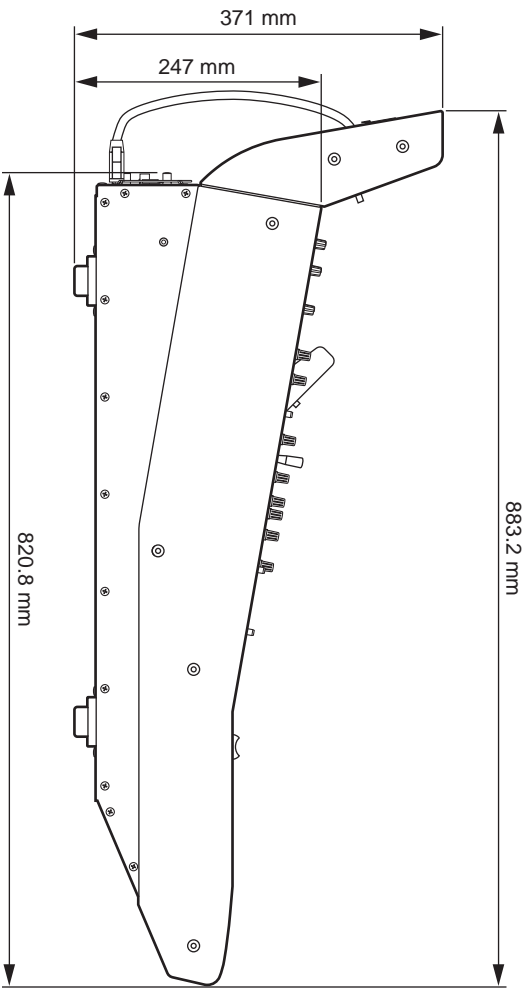
Weight : 3.8 kg

DIMENSIONS

• Top view

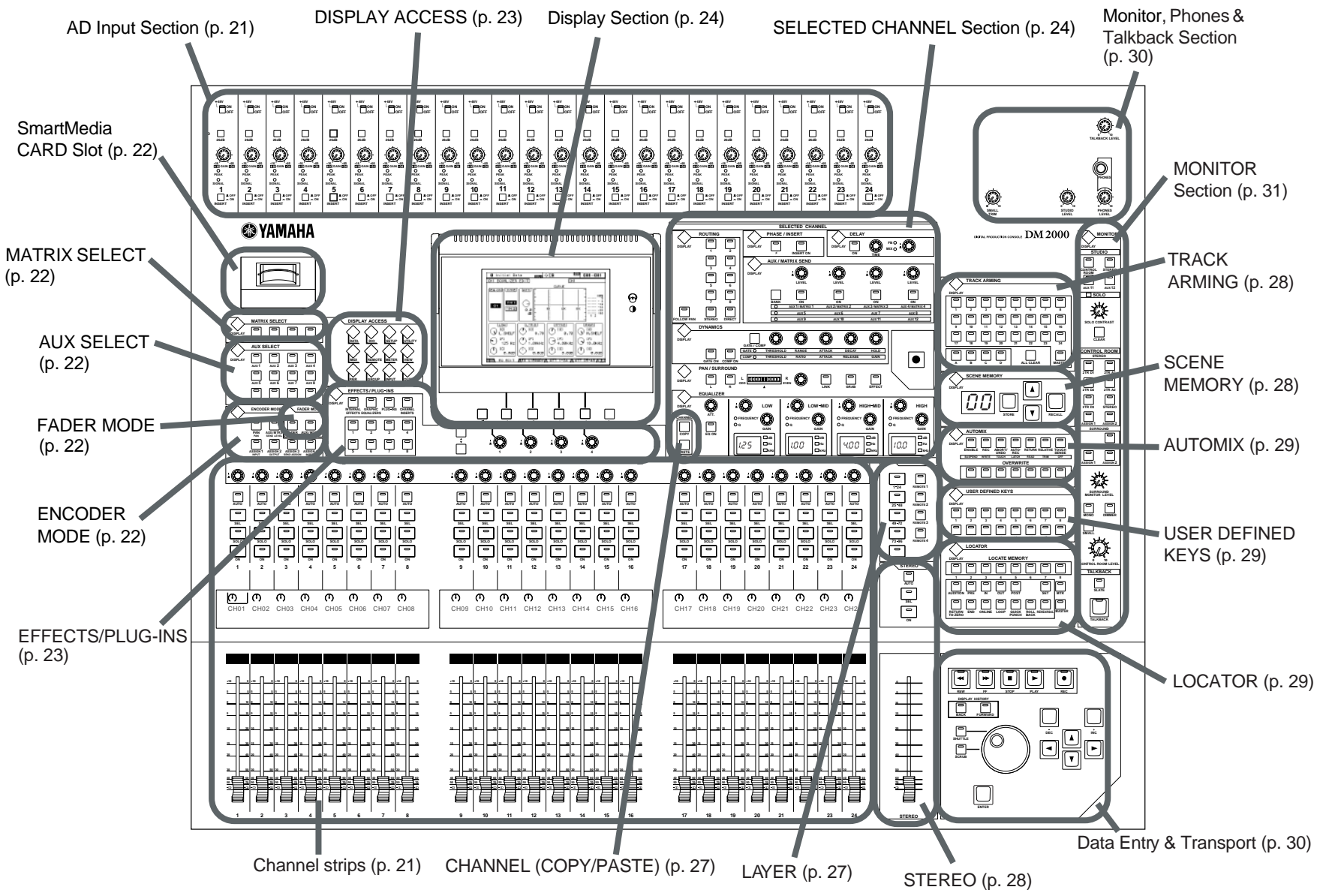


• Side view

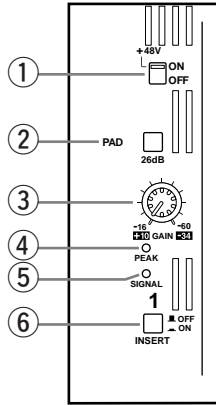


PANEL LAYOUT

- DM2000
- Control Panel

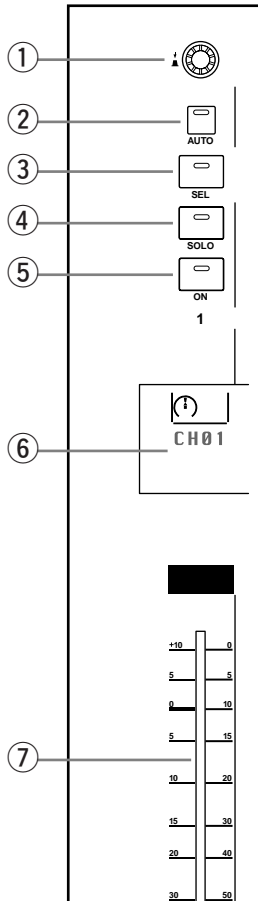


AD Input Section



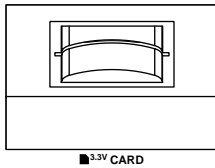
- ① [+48V ON/OFF] switches
- ② [PAD] switches
- ③ [GAIN] controls
- ④ [PEAK] indicators
- ⑤ [SIGNAL] indicators
- ⑥ [INSERT ON/OFF] switches

Channel strips

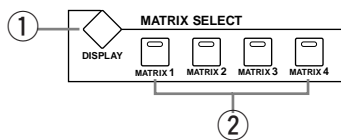


- ① Encoders
- ② [AUTO] buttons
- ③ [SEL] buttons
- ④ [SOLO] buttons
- ⑤ [ON] buttons
- ⑥ Channel strip displays
- ⑦ Channel faders

SmartMedia CARD Slot

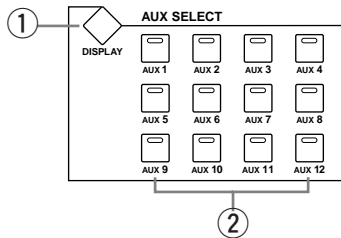


MATRIX SELECT



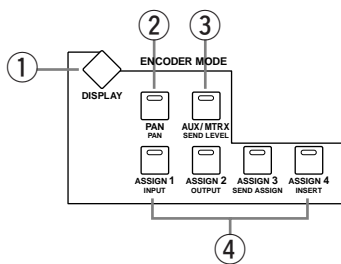
- ① MATRIX SELECT [DISPLAY] button
- ② [MATRIX 1]–[MATRIX 4] buttons

AUX SELECT



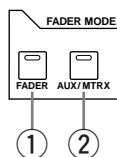
- ① AUX SELECT [DISPLAY] button
- ② [AUX 1]–[AUX 12] buttons

ENCODER MODE



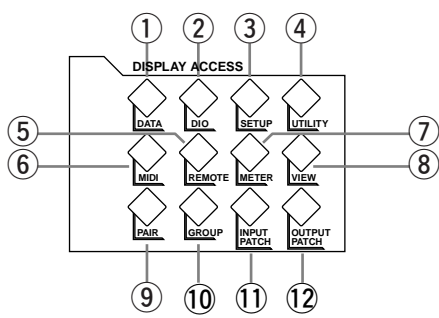
- ① ENCODER MODE [DISPLAY] button
- ② [PAN] button
- ③ [AUX/MTRX] button
- ④ [ASSIGN 1]–[ASSIGN 4] buttons

FADER MODE



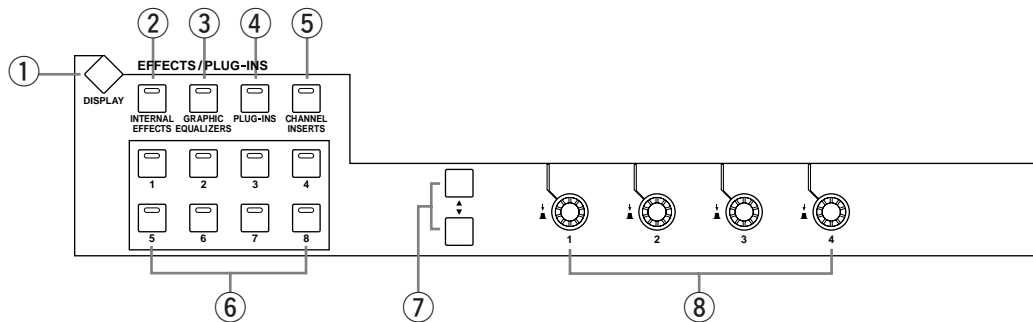
- ① [FADER] button
- ② [AUX/MTRX] button

DISPLAY ACCESS



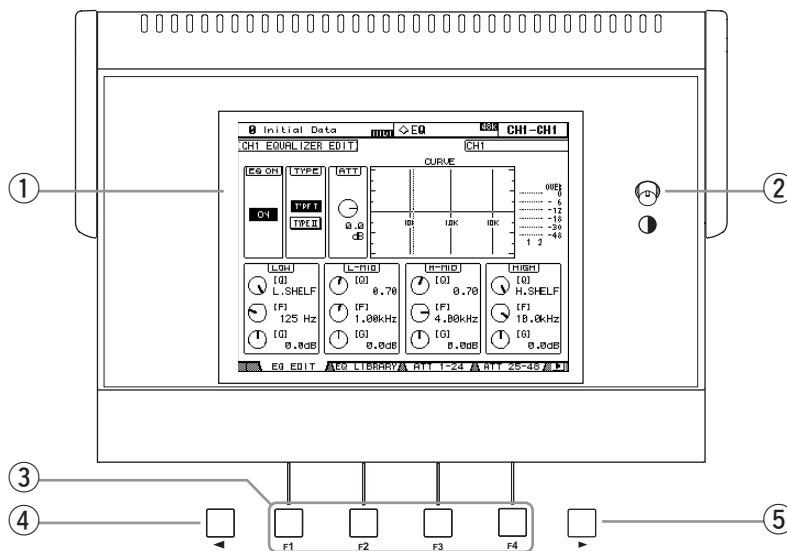
- ① [DATA] button
- ② [DIO] button
- ③ [SETUP] button
- ④ [UTILITY] button
- ⑤ [REMOTE] button
- ⑥ [MIDI] button
- ⑦ [METER] button
- ⑧ [VIEW] button
- ⑨ [PAIR] button
- ⑩ [GROUP] button
- ⑪ [INPUT PATCH] button
- ⑫ [OUTPUT PATCH] button

EFFECTS/PLUG-INS



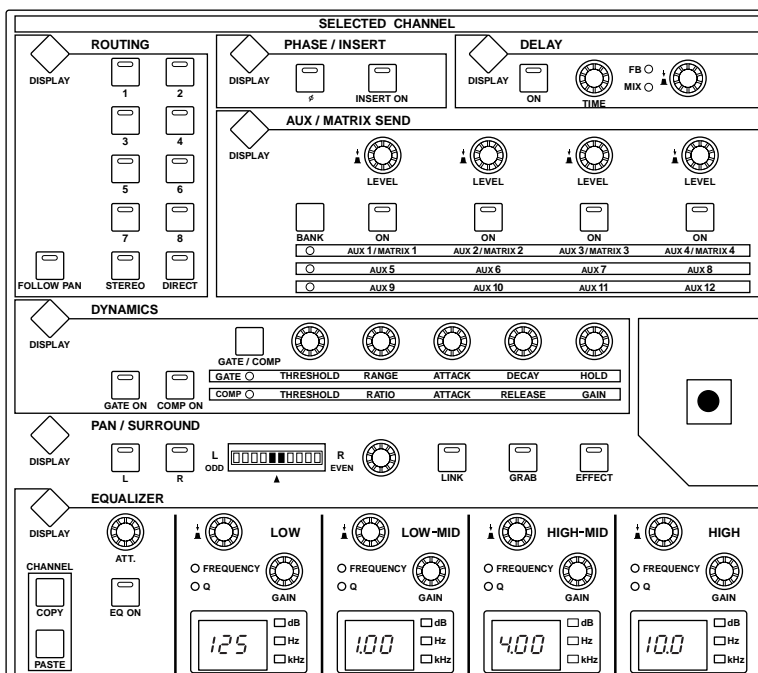
- ① EFFECTS/PLUG-INS [DISPLAY] button
- ② [INTERNAL EFFECTS] button
- ③ [GRAPHIC EQUALIZERS] button
- ④ [PLUG-INS] button
- ⑤ [CHANNEL INSERTS] button
- ⑥ EFFECTS/PLUG-INS [1]–[8] buttons
- ⑦ Parameter Up/Down buttons
- ⑧ Parameter controls [1]–[4]

Display Section

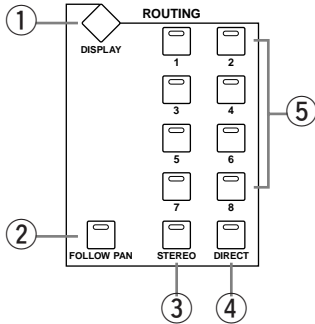


- ① Display
- ② Contrast control
- ③ [F1]–[F4] buttons
- ④ Left Tab Scroll button
- ⑤ Right Tab Scroll button

SELECTED CHANNEL Section

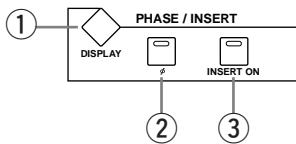


ROUTING



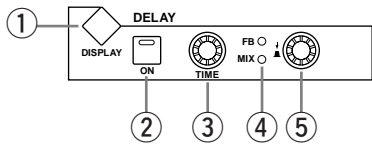
- ① **ROUTING [DISPLAY] button**
- ② **[FOLLOW PAN] button**
- ③ **[STEREO] button**
- ④ **[DIRECT] button**
- ⑤ **ROUTING [1]–[8] buttons**

PHASE/INSERT



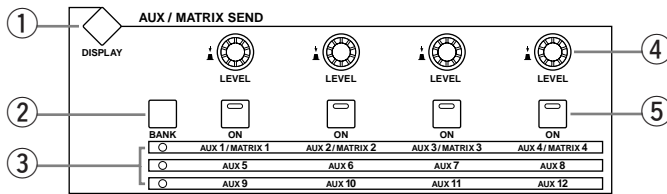
- ① **PHASE/INSERT [DISPLAY] button**
- ② **Phase [ø] button**
- ③ **[INSERT ON] button**

DELAY



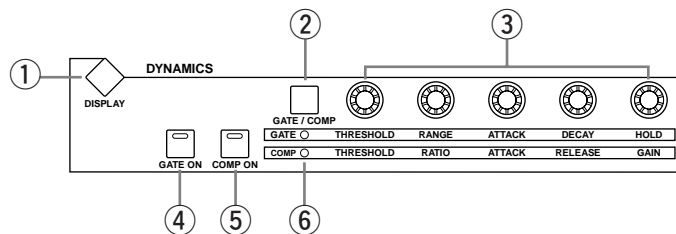
- ① **DELAY [DISPLAY] button**
- ② **[ON] button**
- ③ **[TIME] control**
- ④ **[FB/MIX] indicators**
- ⑤ **[FB/MIX] control**

AUX/MATRIX SEND



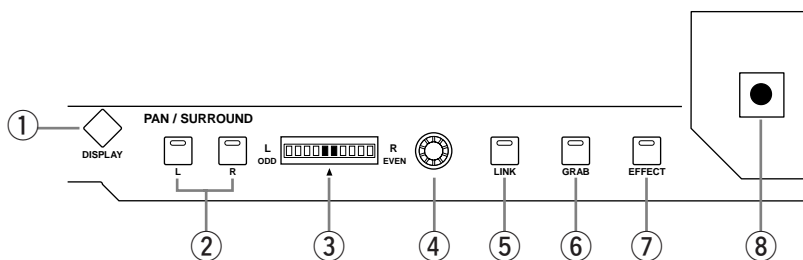
- ① **AUX/MATRIX SEND [DISPLAY] button**
- ② **[BANK] button**
- ③ **Bank indicators**
- ④ **[LEVEL] controls**
- ⑤ **[ON] buttons**

DYNAMICS



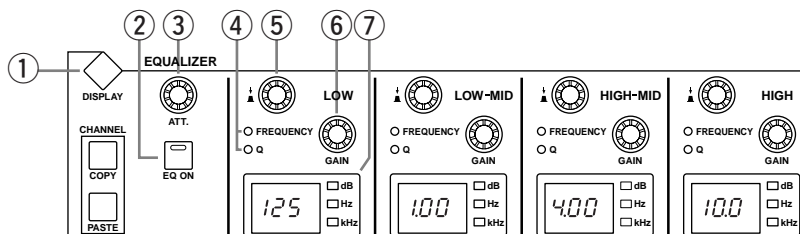
- ① DYNAMICS [DISPLAY] button
- ② [GATE/COMP] button
- ③ [THRESHOLD], [RANGE], [ATTACK], [DECAY], [HOLD] ([THRESHOLD], [RATIO], [ATTACK], [RELEASE], [GAIN]) controls
- ④ [GATE ON] button
- ⑤ [COMP ON] button
- ⑥ [GATE/COMP] indicators

PAN/SURROUND



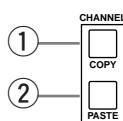
- ① PAN/SURROUND [DISPLAY] button
- ② [L] & [R] buttons
- ③ PAN display
- ④ PAN control
- ⑤ [LINK] button
- ⑥ [GRAB] button
- ⑦ [EFFECT] button
- ⑧ Joystick

EQUALIZER



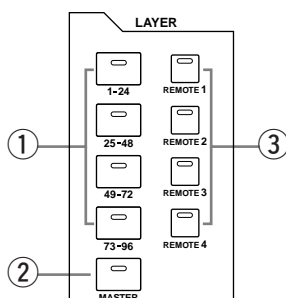
- ① EQUALIZER [DISPLAY] button
- ② [EQ ON] button
- ③ [ATT] control
- ④ [FREQUENCY/Q] indicators
- ⑤ [FREQUENCY/Q] controls
- ⑥ EQ [GAIN] controls
- ⑦ EQ displays

CHANNEL (COPY/PASTE)



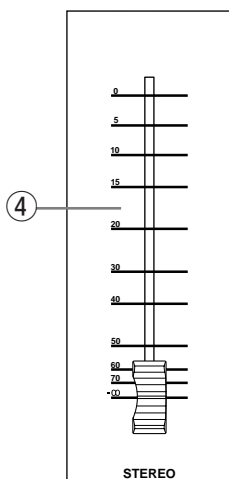
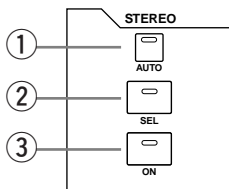
- ① [COPY] button
- ② [PASTE] button

LAYER



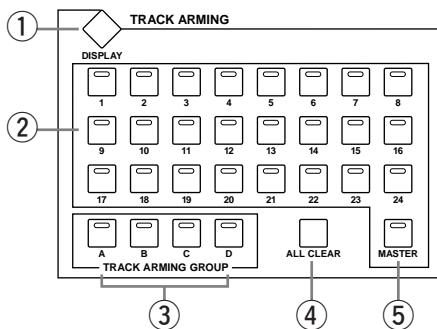
- ① [1-24], [25-48], [49-72] & [73-96] buttons
- ② [MASTER] button
- ③ [REMOTE 1]-[REMOTE 4] buttons

STEREO



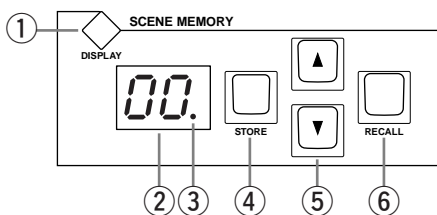
- ① [AUTO] button
- ② [SEL] button
- ③ [ON] button
- ④ Fader

TRACK ARMING



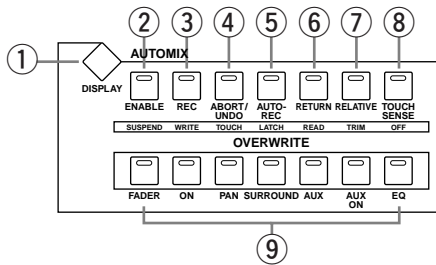
- ① TRACK ARMING [DISPLAY] button
- ② TRACK ARMING [1]–[24] buttons
- ③ TRACK ARMING GROUP [A]–[D] buttons
- ④ [ALL CLEAR] button
- ⑤ [MASTER] button

SCENE MEMORY



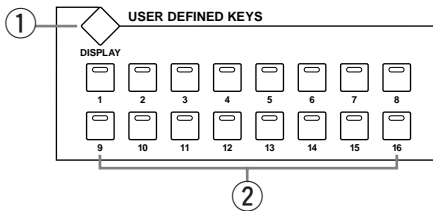
- ① SCENE MEMORY [DISPLAY] button
- ② Scene memory display
- ③ Edit indicator
- ④ [STORE] button
- ⑤ Scene Up/Down buttons
- ⑥ [RECALL] button

AUTOMIX



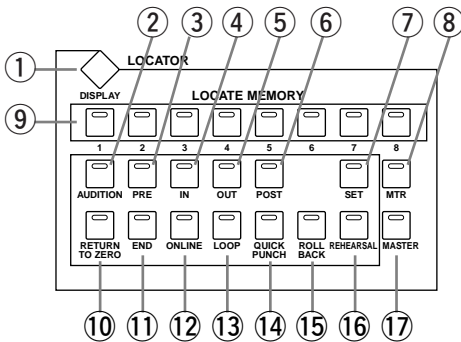
- ① AUTOMIX [DISPLAY] button
- ② [ENABLE] button
- ③ [REC] button
- ④ [ABORT/UNDO] button
- ⑤ [AUTO-REC] button
- ⑥ [RETURN] button
- ⑦ [RELATIVE] button
- ⑧ [TOUCH SENSE] button
- ⑨ [FADER], [ON], [PAN], [SURROUND], [AUX], [AUX ON] & [EQ] buttons

USER DEFINED KEYS



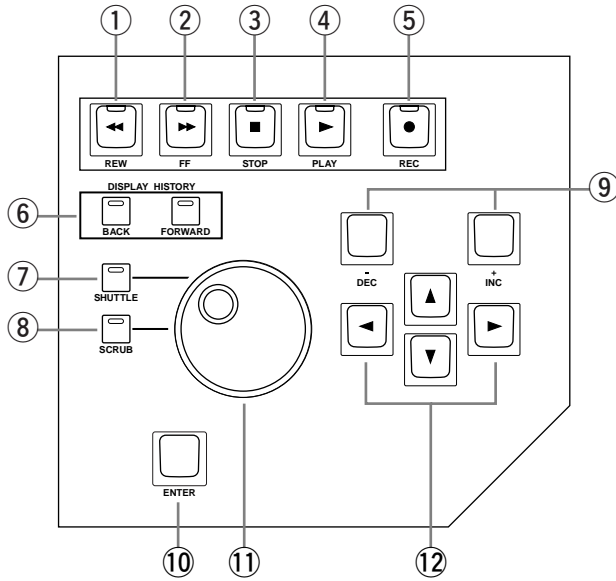
- ① USER DEFINED KEYS [DISPLAY] button
- ② USER DEFINED KEYS [1]-[16] buttons

LOCATOR



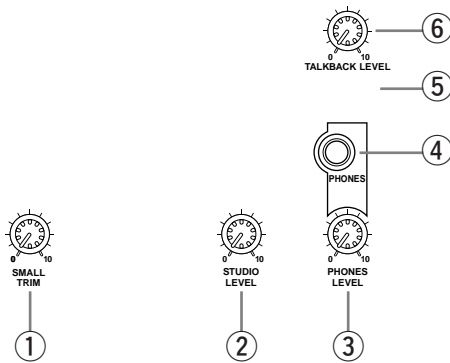
- ① LOCATOR [DISPLAY] button
- ② [AUDITION] button
- ③ [PRE] button
- ④ [IN] button
- ⑤ [OUT] button
- ⑥ [POST] button
- ⑦ [SET] button
- ⑧ [MTR] button
- ⑨ LOCATE MEMORY [1]-[8] buttons
- ⑩ [RETURN TO ZERO] button
- ⑪ [END] button
- ⑫ [ONLINE] button
- ⑬ [LOOP] button
- ⑭ [QUICK PUNCH] button
- ⑮ [ROLL BACK] button
- ⑯ [REHEARSAL] button
- ⑰ [MASTER] button

Data Entry & Transport



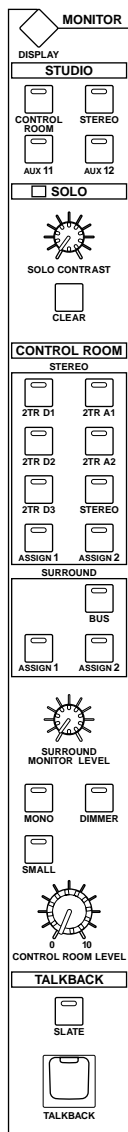
- ① [REW] button
- ② [FF] button
- ③ [STOP] button
- ④ [PLAY] button
- ⑤ [REC] button
- ⑥ DISPLAY HISTORY [BACK]/[FORWARD] buttons
- ⑦ [SHUTTLE] button
- ⑧ [SCRUB] button
- ⑨ [-DEC] & [+INC] buttons
- ⑩ [ENTER] button
- ⑪ Parameter wheel
- ⑫ Cursor buttons

Monitor, Phones & Talkback Section

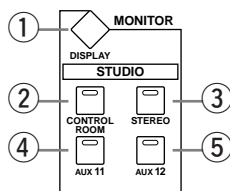


- ① [SMALL TRIM] control
- ② [STUDIO LEVEL] control
- ③ [PHONES LEVEL] control
- ④ [PHONES] jack
- ⑤ Talkback mic
- ⑥ [TALKBACK LEVEL] control

MONITOR Section

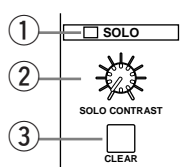


STUDIO



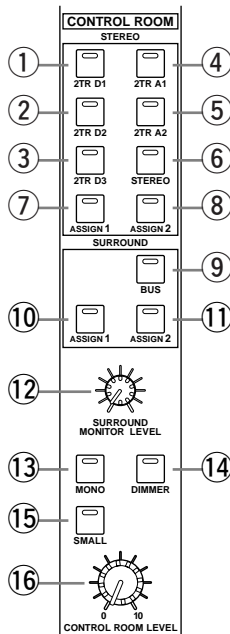
- ① MONITOR [DISPLAY] button
- ② [CONTROL ROOM] button
- ③ [STEREO] button
- ④ [AUX 11] button
- ⑤ [AUX 12] button

SOLO



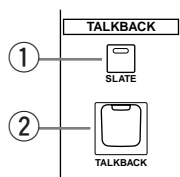
- ① [SOLO] indicator
- ② [SOLO CONTRAST] control
- ③ [CLEAR] button

CONTROL ROOM



- ① STEREO [2TR D1] button
- ② STEREO [2TR D2] button
- ③ STEREO [2TR D3] button
- ④ STEREO [2TR A1] button
- ⑤ STEREO [2TR A2] button
- ⑥ [STEREO] button
- ⑦ STEREO [ASSIGN 1] button
- ⑧ STEREO [ASSIGN 2] button
- ⑨ SURROUND [BUS] button
- ⑩ SURROUND [ASSIGN 1] button
- ⑪ SURROUND [ASSIGN 2] button
- ⑫ [SURROUND MONITOR LEVEL] control
- ⑬ [MONO] button
- ⑭ [DIMMER] button
- ⑮ [SMALL] button
- ⑯ [CONTROL ROOM LEVEL] control

TALKBACK

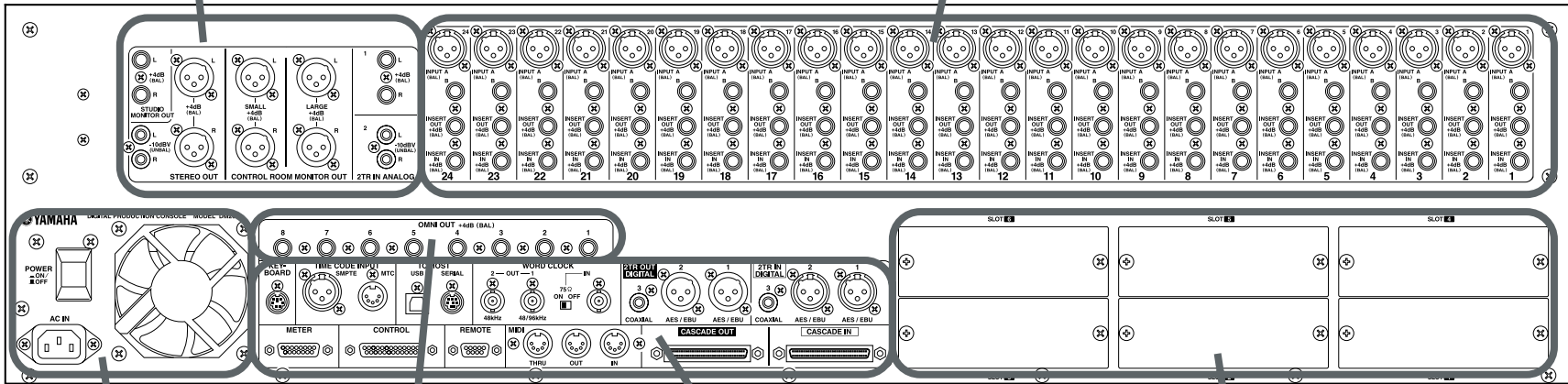


- ① [SLATE] button
- ② [TALKBACK] button

• Rear Panel

Analog Master I/O Section (p. 33)

AD Input Section (p. 33)



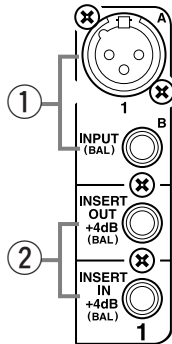
Power Section (p. 34)

OMNI OUT Section (p.33)

Digital I/O & Control Section (p. 34)

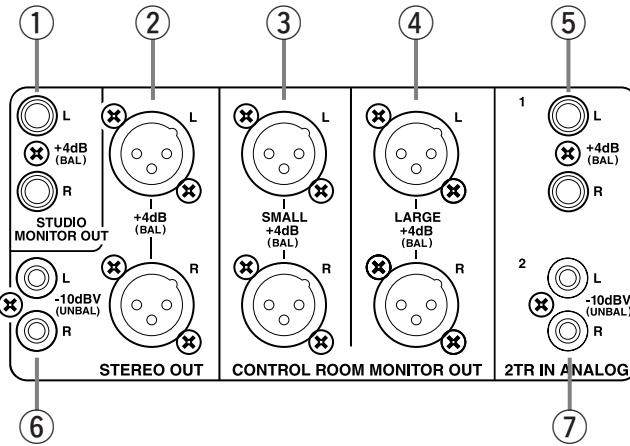
SLOT Section (p. 34)

AD Input Section



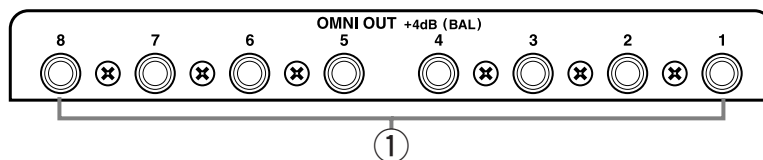
- ① [INPUT A & B (BAL)] connectors
- ② [INSERT IN & OUT +4dB (BAL)] connectors

Analog Master I/O Section



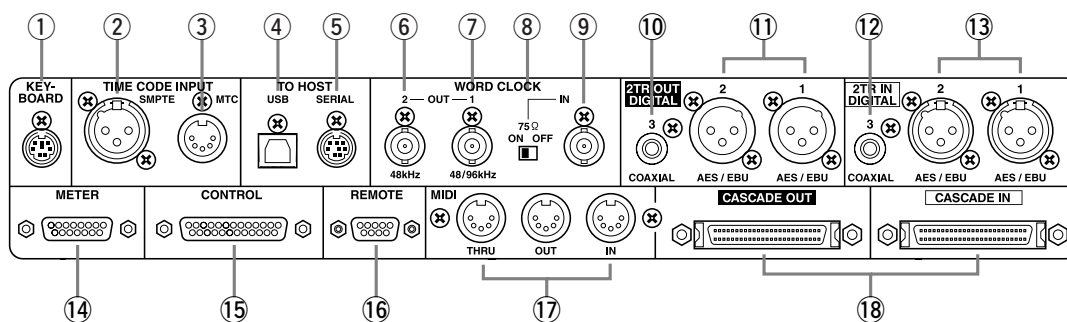
- ① [STUDIO MONITOR OUT +4 dB (BAL)] jacks
- ② [STEREO OUT +4 dB (BAL)] connectors
- ③ [SMALL CONTROL ROOM MONITOR OUT +4 dB (BAL)] connectors
- ④ [LARGE CONTROL ROOM MONITOR OUT +4 dB (BAL)] connectors
- ⑤ [2TR IN ANALOG 1 +4 dB (BAL)] jacks
- ⑥ [STEREO OUT -10 dBV (UNBAL)] connectors
- ⑦ [2TR IN ANALOG 2 -10 dBV (UNBAL)] connectors

OMNI OUT Section



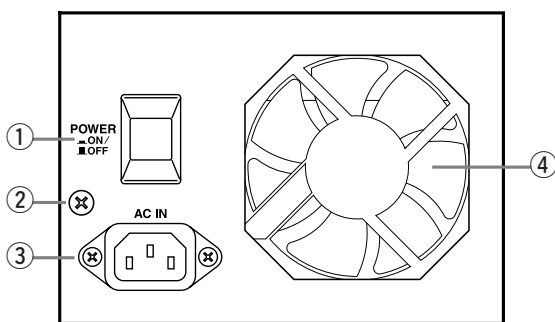
- ① [OMNI OUT +4dB (BAL)] jacks

Digital I/O & Control Section



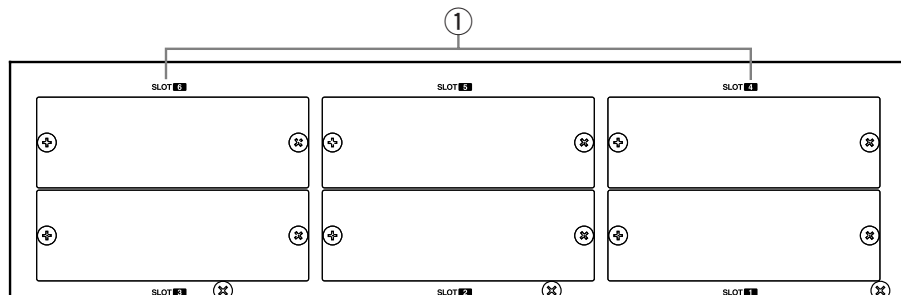
- ① [KEYBOARD] connector
- ② [SMPTE TIME CODE INPUT] connector
- ③ [MTC TIME CODE INPUT] connector
- ④ [USB TO HOST] port
- ⑤ [SERIAL TO HOST] port
- ⑥ [WORD CLOCK OUT 2] connector
- ⑦ [WORD CLOCK OUT 1] connector
- ⑧ [WORD CLOCK 75Ω ON/OFF] termination switch
- ⑨ [WORD CLOCK IN] connector
- ⑩ [2TR OUT DIGITAL COAXIAL 3] connector
- ⑪ [2TR OUT DIGITAL AES/EBU 1 & 2] connectors
- ⑫ [2TR IN DIGITAL COAXIAL 3] connector
- ⑬ [2TR IN DIGITAL AES/EBU 1 & 2] connectors
- ⑭ [METER] port
- ⑮ [CONTROL] port
- ⑯ [REMOTE] port
- ⑰ [MIDI IN, OUT & THRU] ports
- ⑱ [CASCADE IN & OUT] ports

Power Section



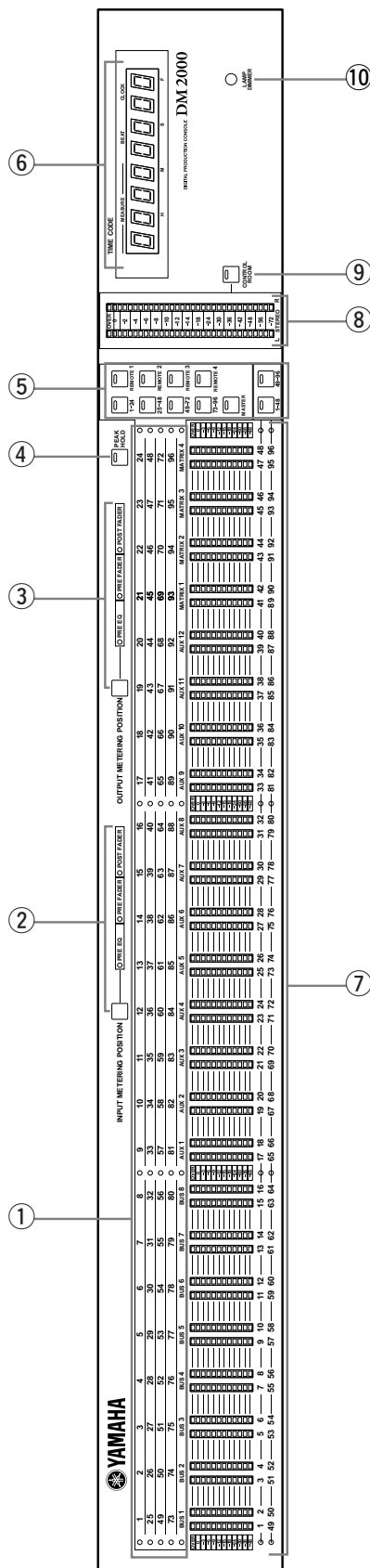
- ① [POWER ON/OFF] switch
- ② Grounding screw
- ③ [AC IN] connector
- ④ Cooling fan

SLOT Section



- ① [SLOT 1]–[SLOT 6]

- MB2000
- Controls

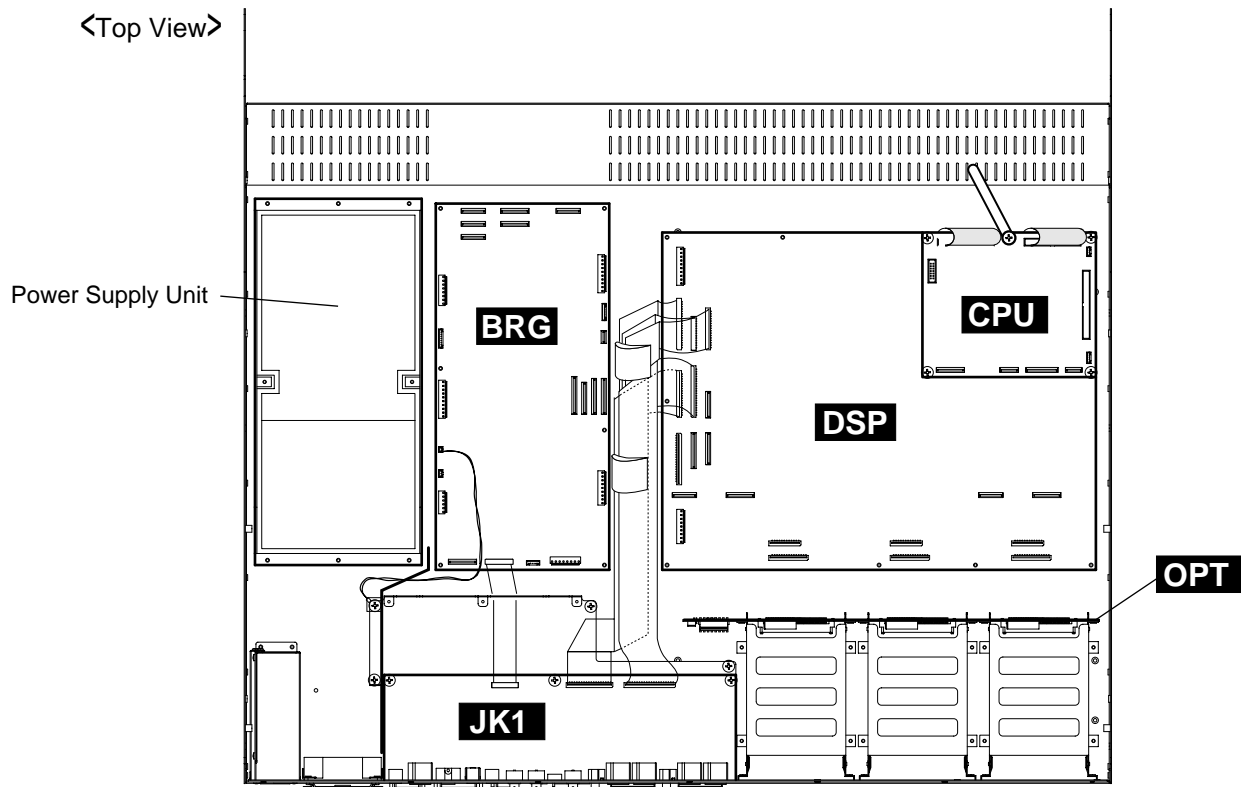
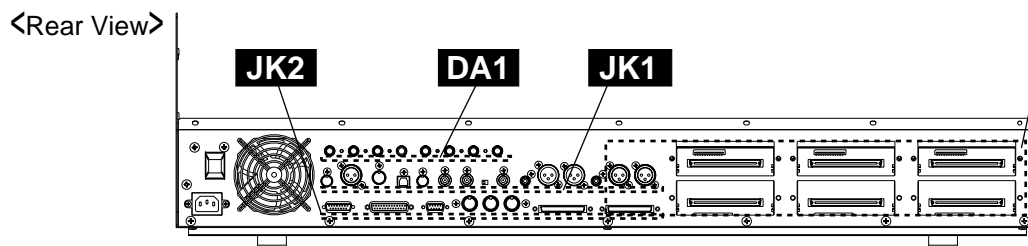
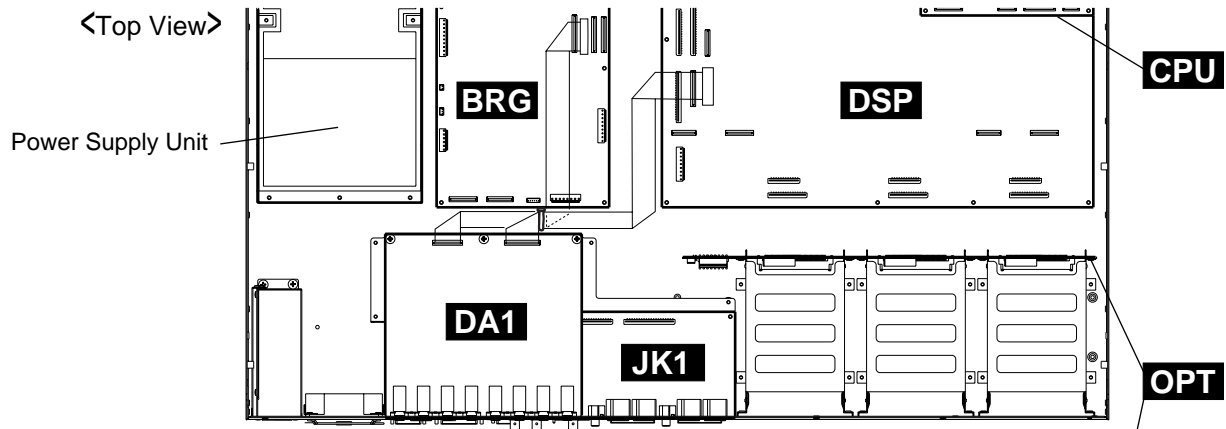


- ① Channel indicators
- ② [INPUT METERING POSITION] button & indicators
- ③ [OUTPUT METERING POSITION] button & indicators
- ④ [PEAK HOLD] button
- ⑤ [LAYER] buttons
- ⑥ [TIMECODE] counter
- ⑦ Meters
- ⑧ [STEREO] meters
- ⑨ [CONTROL ROOM] button
- ⑩ [LAMP DIMMER] knob

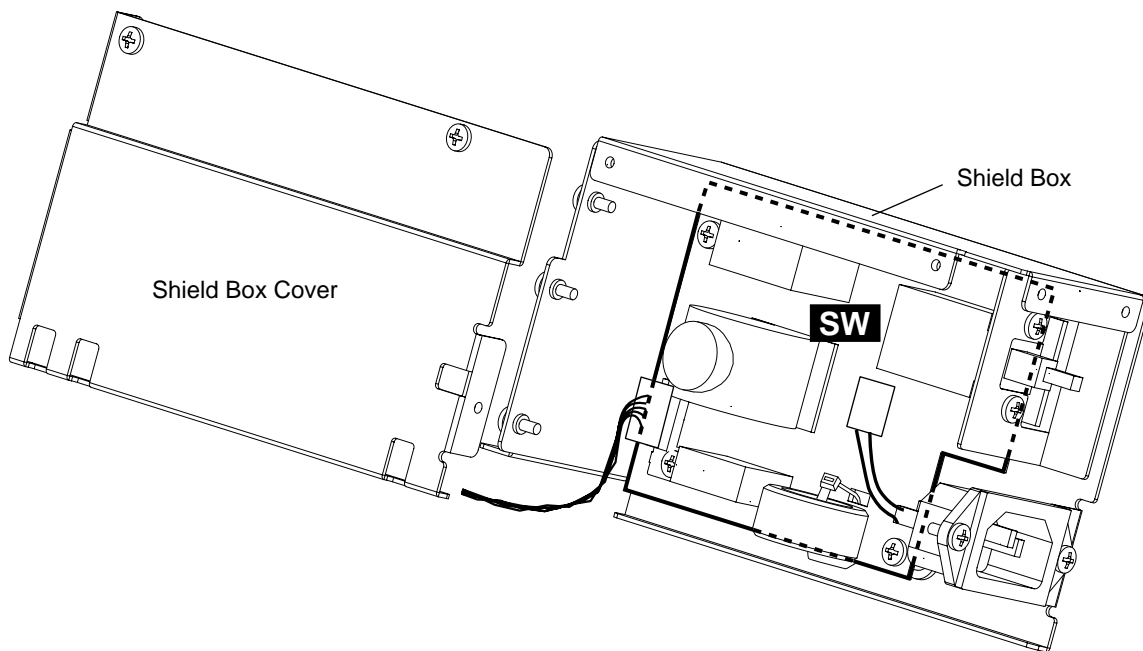
■ CIRCUIT BOARD LAYOUT

- DM2000

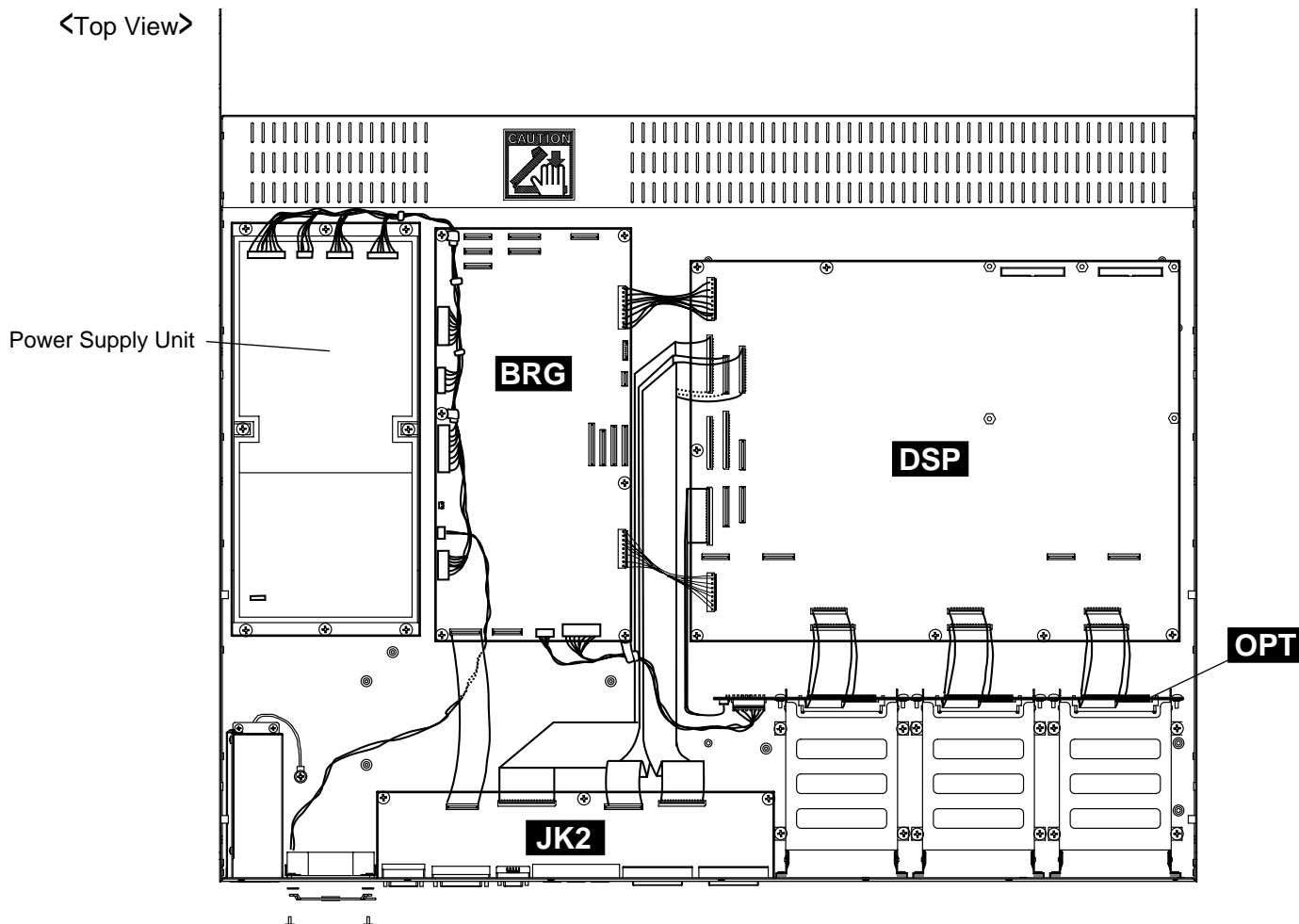
- Bottom Assembly



Inside the shield box

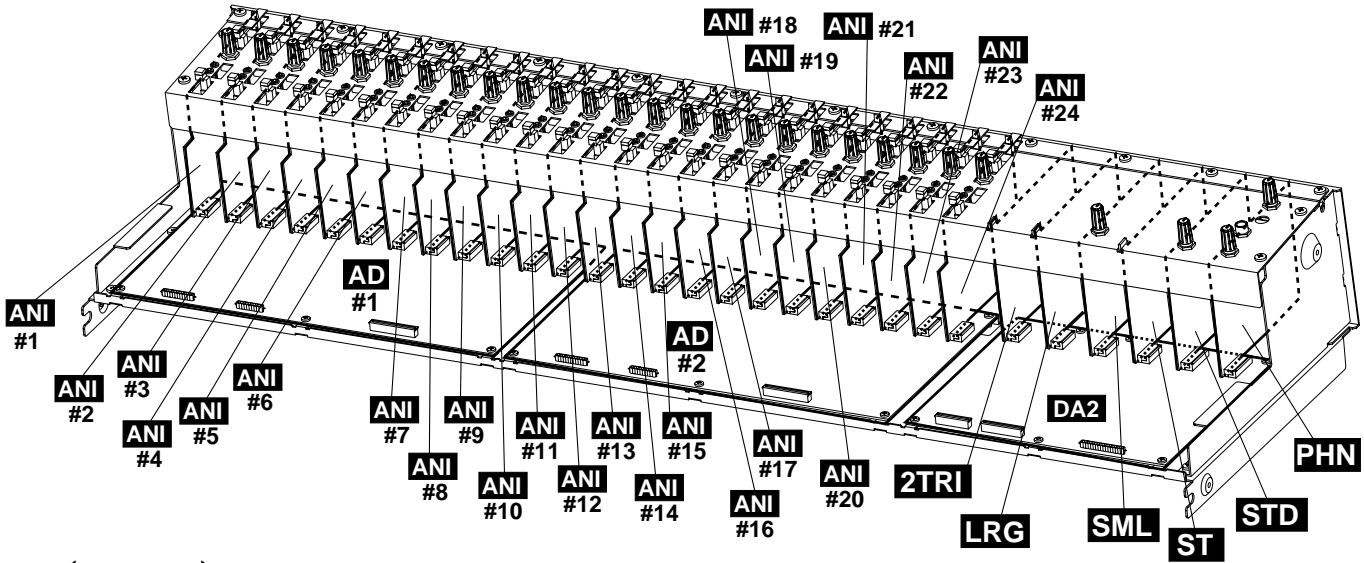


<Top View>

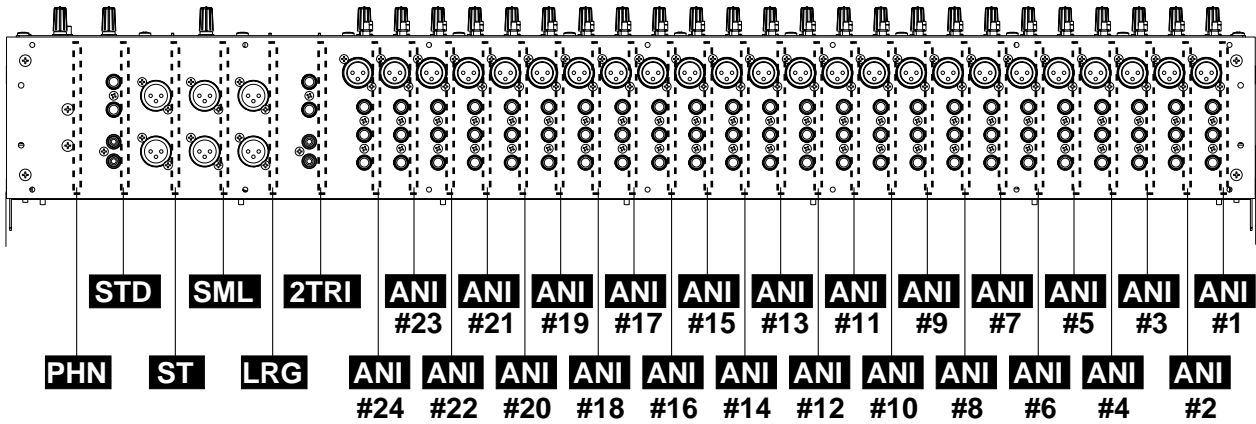


• Rear Assembly U

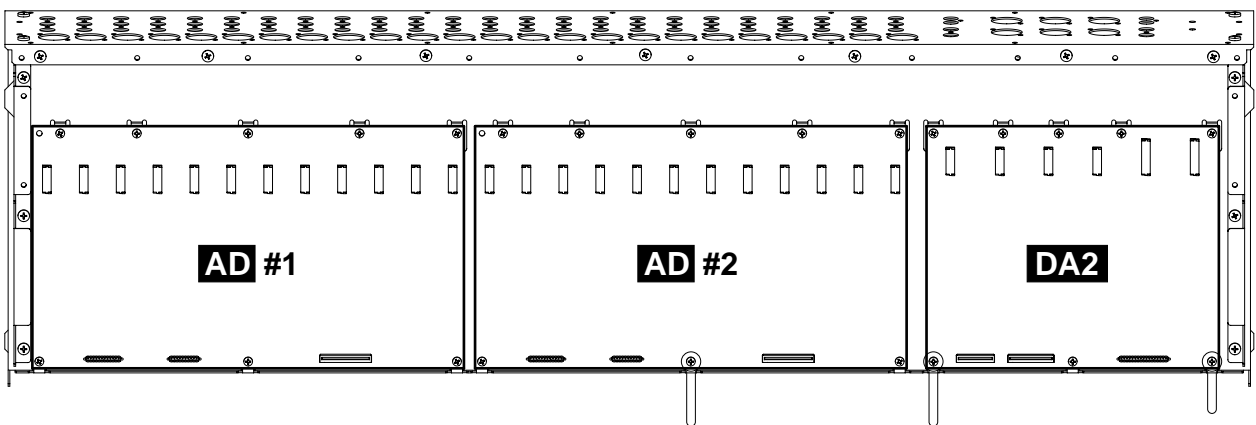
<Top View>



<Rear View>

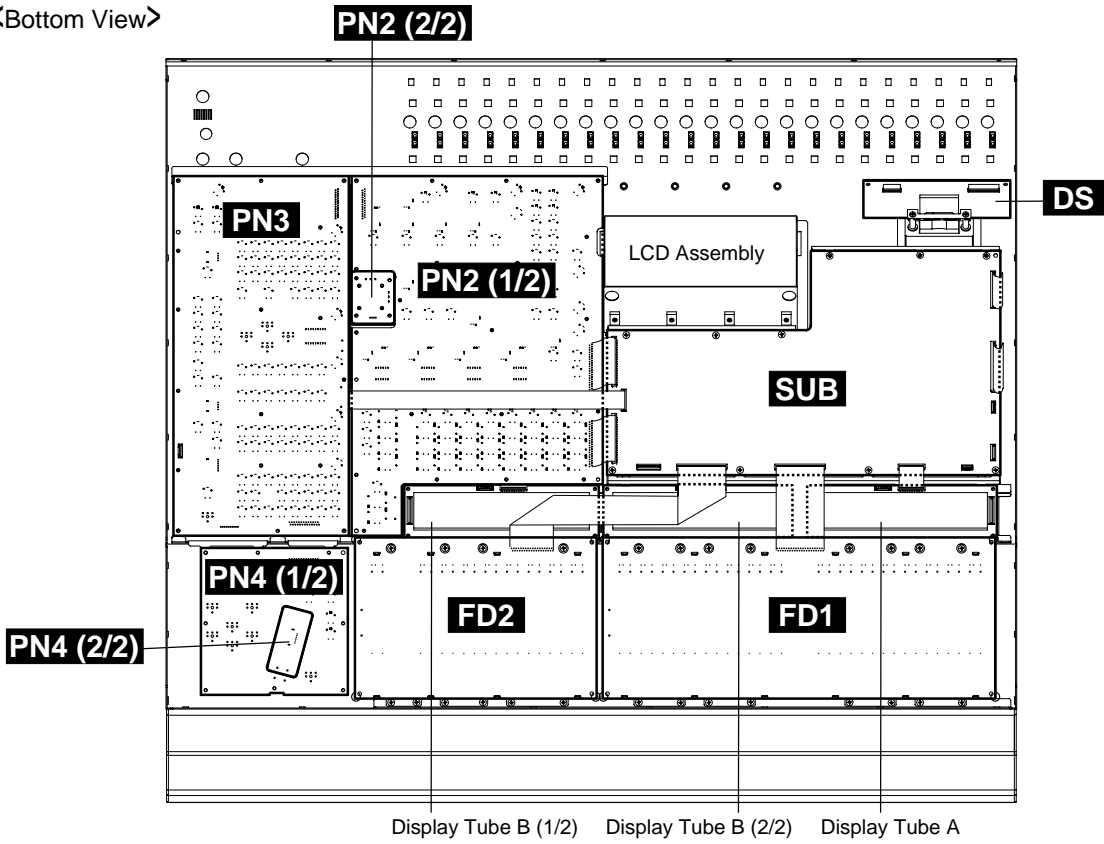


<Top View>

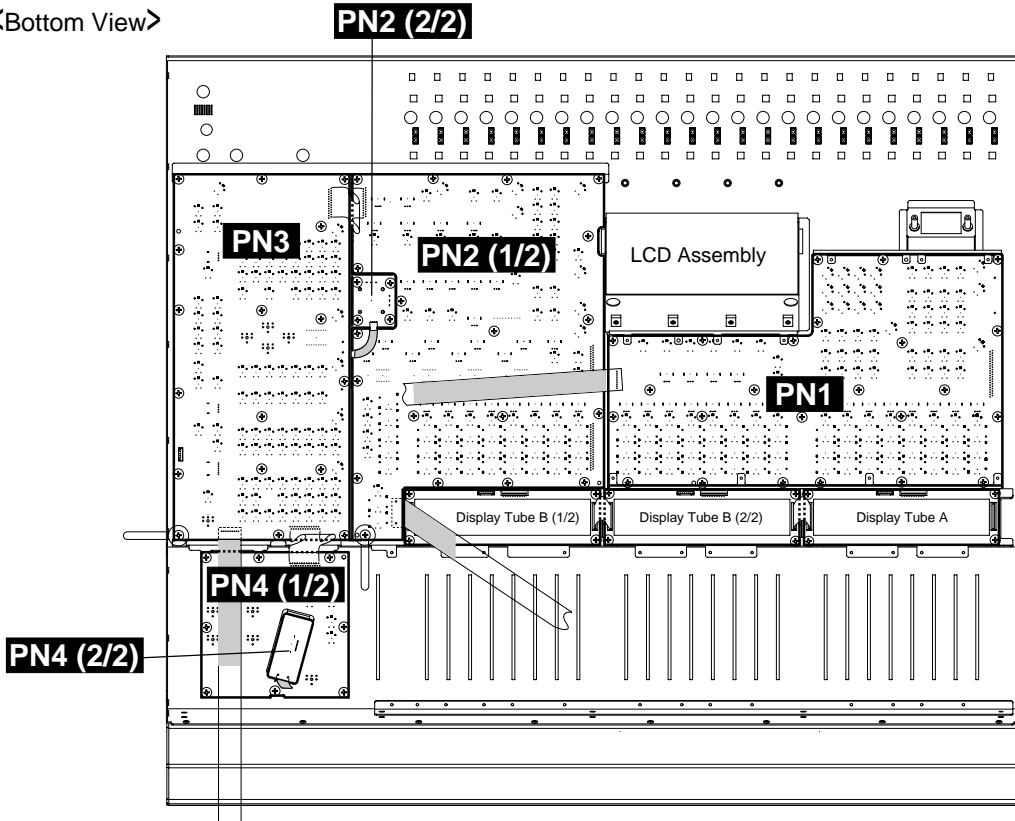


• Control Panel Assembly

<Bottom View>

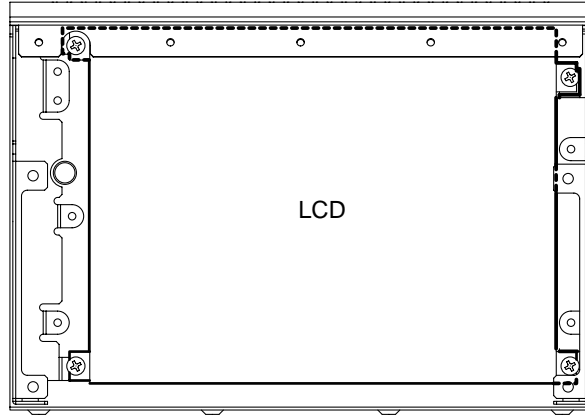


<Bottom View>

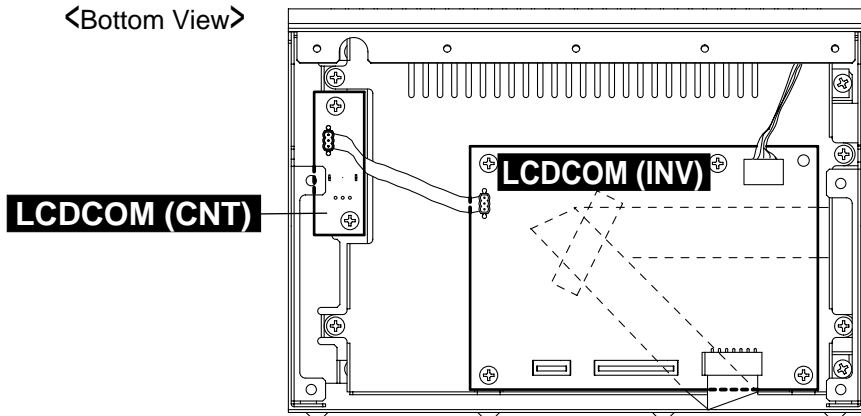


• LCD Assembly

<Bottom View>

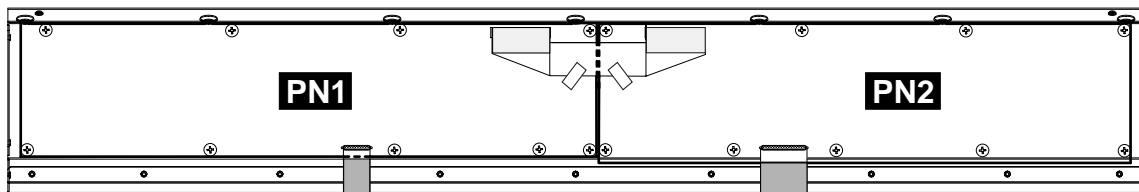


<Bottom View>

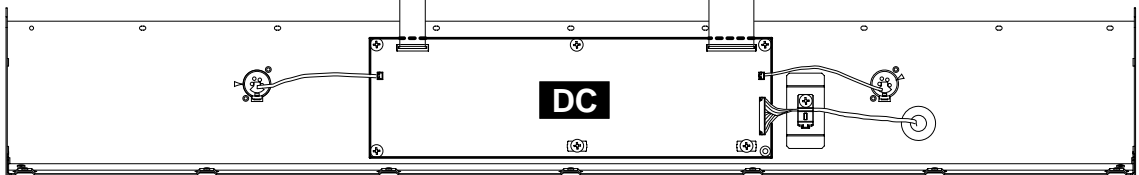


• MB2000

<Rear View>



<Front View>



DISASSEMBLY PROCEDURE



Note: Take care not to trap your fingers.

* After replacing the circuit board or fader of FD1 or FD2, please initialize them. (See page 187.)

Disassembling the DM2000

1. Removing the SP2000

(Time required: About 5 minutes)

- 1-1. If the SP2000 is attached to the DM2000, remove the twelve (12) screws marked [A], and then both sides must be removed. (Fig.1)

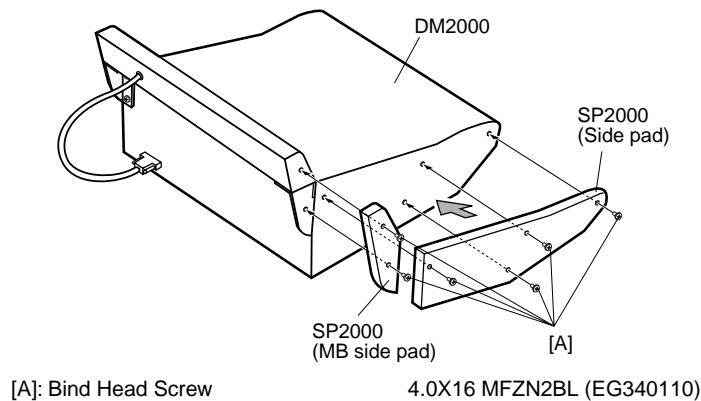
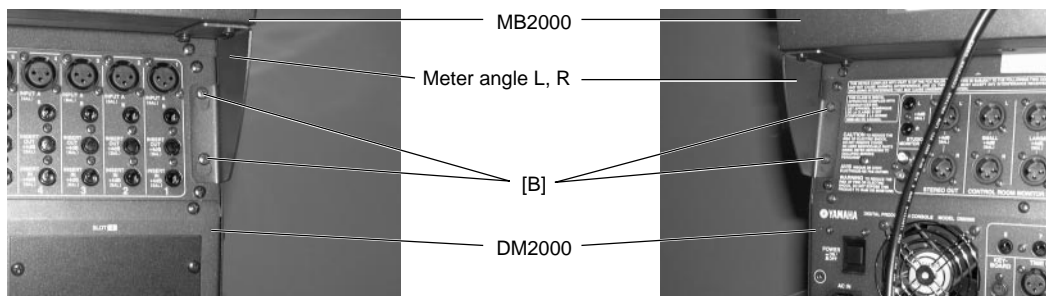


Fig.1

2. Removing the MB2000

(Time required: About 5 minutes)

- 2-1. Loosen the four (4) screws marked [B]. The MB2000 can then be removed from the DM2000. (Photo.1,2)



[B]: Bind Head Screw

Photo.1

A4.0X12 MFZN2BL (VP156900)

Photo.2

3. Control Panel Assembly

(Time required: About 10 minutes)

- 3-1. Remove the SP2000. (See procedure 1.)
 3-2. Remove the MB2000. (See procedure 2.)
 3-3. Remove the twenty (20) screws marked [60A], the eight (8) screws marked [60B] and the seven (7) screws marked [60C]. (Fig.2)
 3-4. Hold the LCD assembly part, and lift the control panel assembly. And then, fasten them by the two (2) front stays. (Photo.3)

* When assembling the control panel assembly with the side panel, put the screws of the round screw hole of the side panel in place first, then the screws of the elliptic screw hole.

4. Rear Assembly U

(Time required: About 15 minutes)

- 4-1. Remove the SP2000. (See procedure 1.)
- 4-2. Remove the MB2000. (See procedure 2.)
- 4-3. Fasten the control panel assembly. (See procedure 3.)
- 4-4. Remove the two (2) screws marked [60D] and the seven (7) screws marked [60E]. (Fig.2)
- 4-5. Lift the rear assembly U from the rear side and fasten them by the two (2) rear stays. (There are two ways of using the rear stays shown in the photo 4 or 5.)

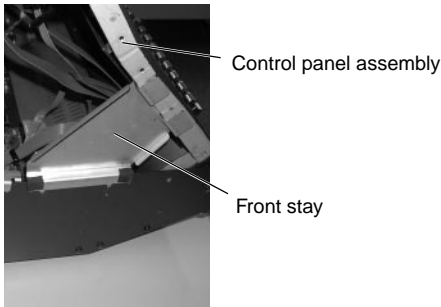


Photo.3

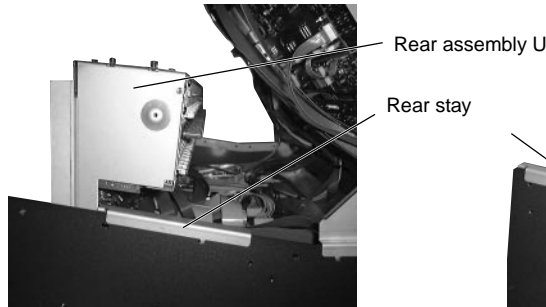


Photo.4

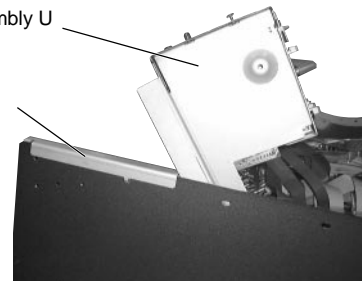
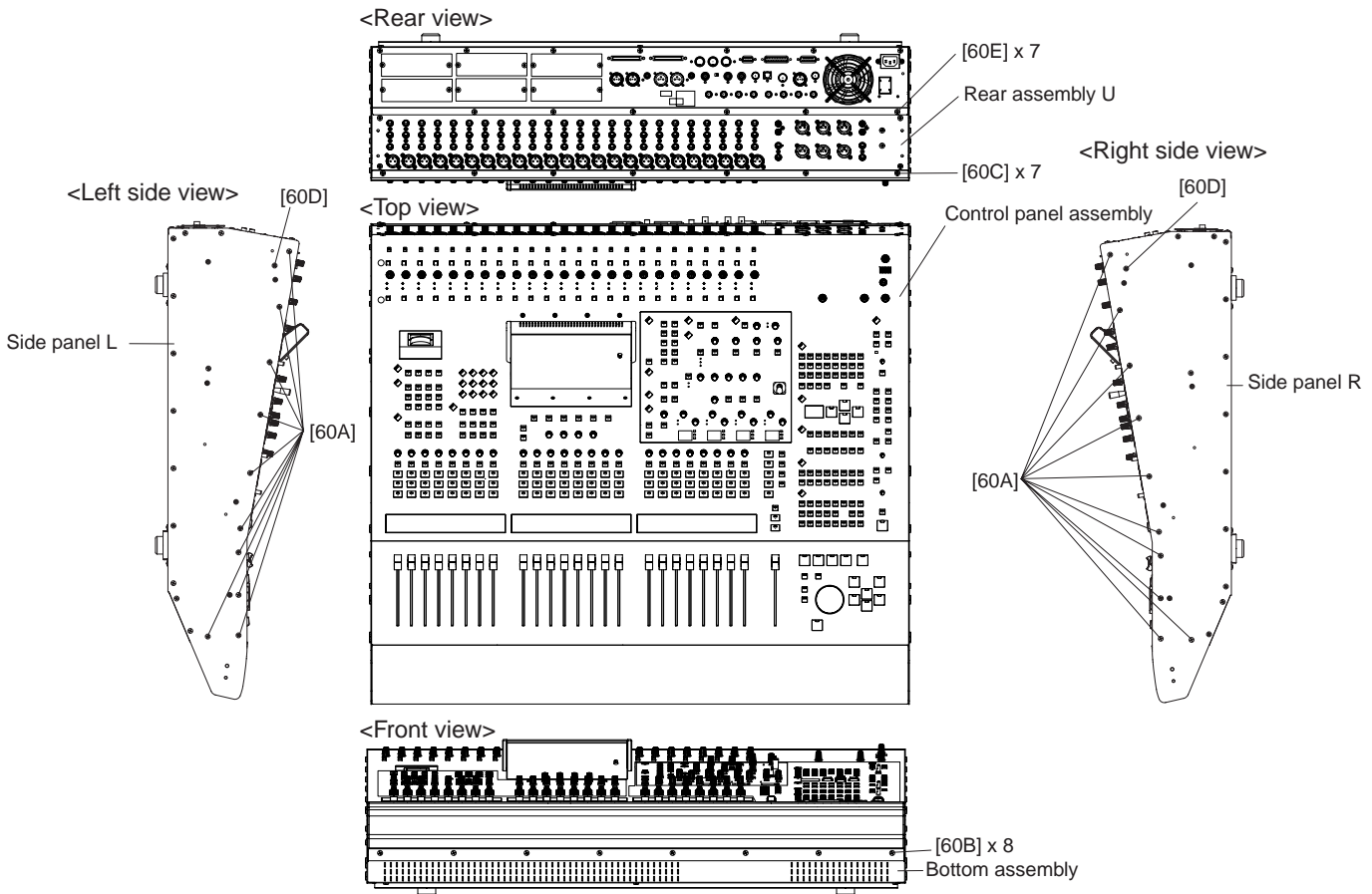


Photo.5



[60]: Bind Head Tapping Screw-B

A4.0X8 MFZN2BL (VC688800)

Fig.2

Bottom Assembly

5. CPU Circuit Board

(Time required: About 15 minutes)

- 5-1. Remove the SP2000. (See procedure 1.)
- 5-2. Remove the MB2000. (See procedure 2.)
- 5-3. Fasten the control panel assembly. (See procedure 3.)
- 5-4. Remove the five (5) screws marked [335]. The CPU circuit board can then be removed. (Fig.4)

6. Replacing the Lithium Battery

(Time required: About 15 minutes)

- 6-1. Remove the SP2000. (See procedure 1.)
- 6-2. Remove the MB2000. (See procedure 2.)
- 6-3. Fasten the control panel assembly. (See procedure 3.)
- 6-4. You can replace the lithium battery from the CPU circuit board. (Fig.4)

*** The lithium battery is not part of the CPU circuit board. When you replace the CPU circuit board, you should remove the lithium battery from the board, and install in the holder on the new circuit board.**

7. DSP Circuit Board

(Time required: About 25 minutes)

- 7-1. Remove the SP2000. (See procedure 1.)
- 7-2. Remove the MB2000. (See procedure 2.)
- 7-3. Fasten the control panel assembly. (See procedure 3.)
- 7-4. Fasten the rear assembly U. (See procedure 4.)
- 7-5. Remove the CPU circuit board. (See procedure 5.)
- 7-6. Remove the seven (7) screws marked [310] and the five (5) hexagonal spacers. The DSP circuit board can then be removed. (Fig.3)

8. BRG Circuit Board

(Time required: About 20 minutes)

- 8-1. Remove the SP2000. (See procedure 1.)
- 8-2. Remove the MB2000. (See procedure 2.)
- 8-3. Fasten the control panel assembly. (See procedure 3.)
- 8-4. Fasten the rear assembly U. (See procedure 4.)
- 8-5. Remove the six (6) screws marked [290A]. The BRG circuit board can then be removed. (Fig.3)

9. Power Supply Unit

(Time required: About 20 minutes)

- 9-1. Remove the SP2000. (See procedure 1.)
- 9-2. Remove the MB2000. (See procedure 2.)
- 9-3. Fasten the control panel assembly. (See procedure 3.)
- 9-4. Fasten the rear assembly U. (See procedure 4.)
- 9-5. Remove the eight (8) screws marked [255]. The power supply unit can then be removed. (Fig.3)

*** Noise will be generated if a bundle of cables for VOLUME is routed over the power supply unit, so make sure it is routed as shown in Photo 6. Never route as shown in Photo 7. (Photo.6, 7)**

<OK>



Photo.6

<NG>

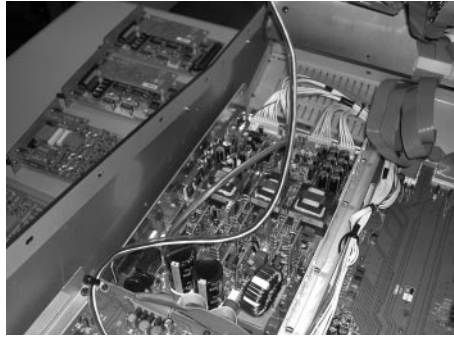


Photo.7

10. OPT Circuit Board

(Time required: About 20 minutes)

- 10-1. Remove the SP2000. (See procedure 1.)
- 10-2. Remove the MB2000. (See procedure 2.)
- 10-3. Fasten the control panel assembly. (See procedure 3.)
- 10-4. Fasten the rear assembly U. (See procedure 4.)
- 10-5. Remove the six (6) screws marked [270A]. The OPT circuit board can then be removed. (Fig.3)

11. DA1 and JK1 Circuit Boards

(Time required: About 25 minutes each)

- 11-1. Remove the SP2000. (See procedure 1.)
- 11-2. Remove the MB2000. (See procedure 2.)
- 11-3. Fasten the control panel assembly. (See procedure 3.)
- 11-4. Fasten the rear assembly U. (See procedure 4.)
- 11-5. Remove the six (6) screws marked [235], the thirteen (13) screws marked [370], the six (6) screws marked [380] and the four (4) screws marked [400]. The P.C.B. holder and the duct can then be removed with the DA1 and JK1 circuit boards. (Fig.4, 5)
- 11-6. **DA1 Circuit Board:**
Remove the three (3) screws marked [240]. The DA1 circuit board can then be removed from P.C.B. holder. (Fig.5)
- 11-7. **JK1 Circuit Board:**
Remove the DA1 circuit board. (See procedure 11-6.)
Remove the three (3) screws marked [365]. The JK1 circuit board can then be removed from P.C.B. holder. (Fig.4)

12. JK2 Circuit Board

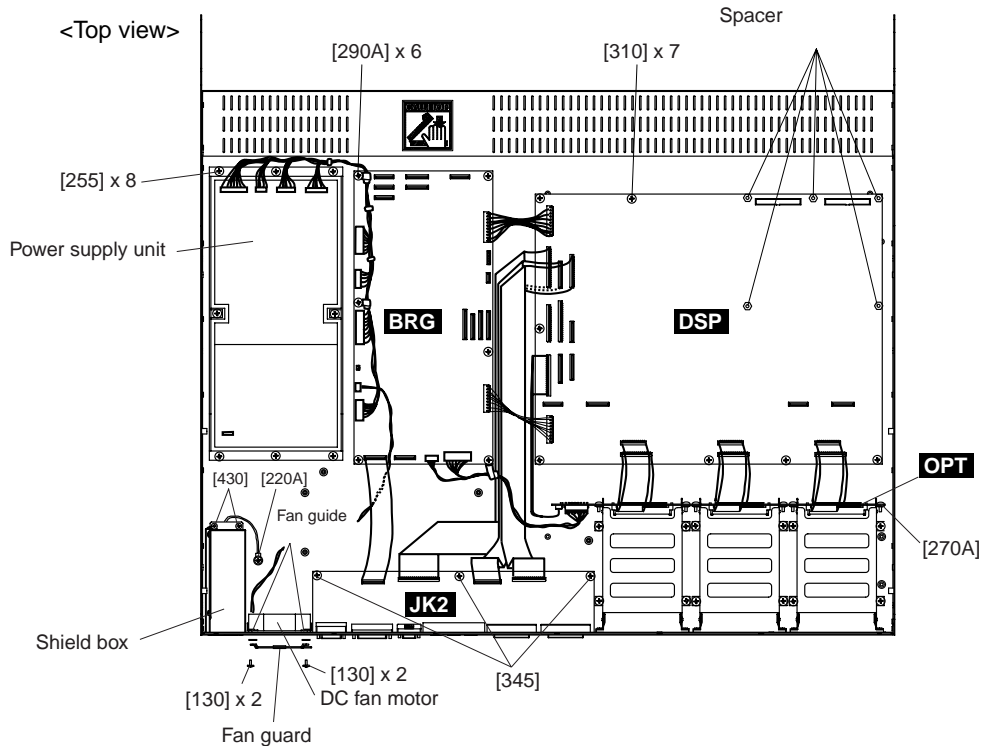
(Time required: About 25 minutes)

- 12-1. Remove the SP2000. (See procedure 1.)
- 12-2. Remove the MB2000. (See procedure 2.)
- 12-3. Fasten the control panel assembly. (See procedure 3.)
- 12-4. Fasten the rear assembly U. (See procedure 4.)
- 12-5. Remove the P.C.B. holder and the duct with the DA1 and JK1 circuit boards. (See procedure 11-5.)
- 12-6. Remove the three (3) screws marked [345], the two (2) screws marked [350A], the two (2) screws marked [355], the two (2) screws marked [C], the two (2) screws marked [D], the two (2) screws marked [E] and the two (2) screws marked [F]. The JK2 circuit board can then be removed. (Fig.3, 5)

13. DC Fan Motor

(Time required: About 20 minutes)

- 13-1. Remove the SP2000. (See procedure 1.)
- 13-2. Remove the MB2000. (See procedure 2.)
- 13-3. Fasten the control panel assembly. (See procedure 3.)
- 13-4. Fasten the rear assembly U. (See procedure 4.)
- 13-5. Remove the four (4) screws marked [130]. The DC fan motor, the two (2) fan guides, the fan guard and the two (2) toothed lock washers can then be removed. (Fig.3)



[130]: Pan Head Screw	SP 4.0X20 MFZN2BL (VB671600)
[220A]: Bind Head Tapping Screw-S	4.0X8 MFZN2BL (VI693100)
[255]: Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)
[270A]: Bind Head Screw	4.0X8 SP MFZN2Y (VZ538000)
[290A]: Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)
[310]: Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)
[345]: Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)
[430]: Bind Head Tapping Screw-B	3.0X8 MFZN2BL (EP600190)

Fig.3

14. AC Inlet Assembly and SW Circuit Board

(Time required: About 25 minutes each)

- 14-1. Remove the SP2000. (See procedure 1.)
- 14-2. Remove the MB2000. (See procedure 2.)
- 14-3. Fasten the control panel assembly. (See procedure 3.)
- 14-4. Fasten the rear assembly U. (See procedure 4.)
- 14-5. Remove the screw marked [220A], the two (2) screws marked [225] and the two (2) screws marked [430]. The shield box can then be removed with the AC inlet assembly and the SW circuit board. (Fig.3, 5, 6)
- 14-6. Remove the six (6) screws marked [205A]. The shield box cover can then be removed from the shield box. (Fig.6)

- 14-7. **AC Inlet Assembly:**
Remove the screw marked [205B] and the cord holder. The AC inlet assembly can then be removed from the shield box. (Fig.6)
- 14-8. **SW Circuit Board:**
Remove the power switch knob, the three (3) screws marked [205C] and the two (2) screws marked [210A]. The SW circuit board can then be removed from the shield box. (Fig.5, 6)

Rear Assembly U

15. PC Support

(Time required: About 15 minutes)

- 15-1. Remove the SP2000. (See procedure 1.)
- 15-2. Remove the MB2000. (See procedure 2.)
- 15-3. Fasten the control panel assembly. (See procedure 3.)
- 15-4. Remove the sixteen (16) screws marked [190], the twenty-four (24) nuts marked [200A], the five (5) nuts marked [210B] and the twenty-eight (28) knobs marked [220B]. The PC support can then be removed from the rear assembly U. (Fig.7)

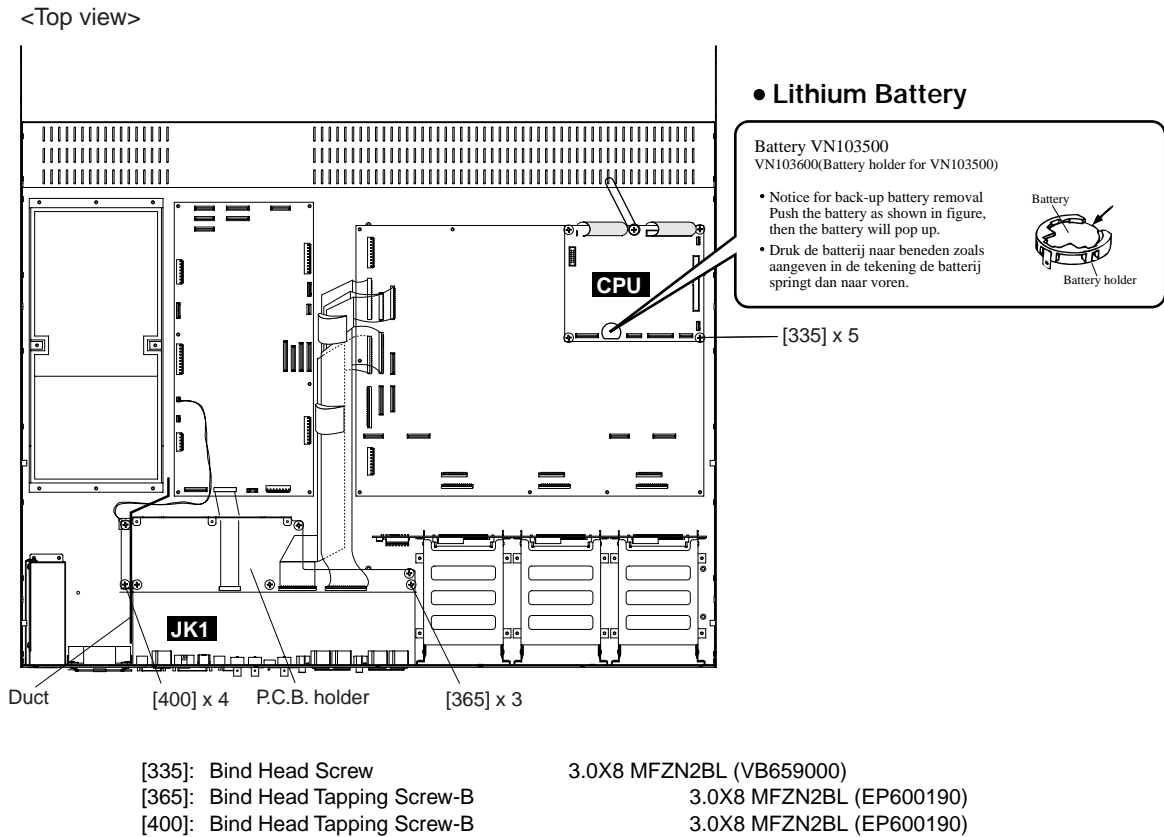


Fig.4

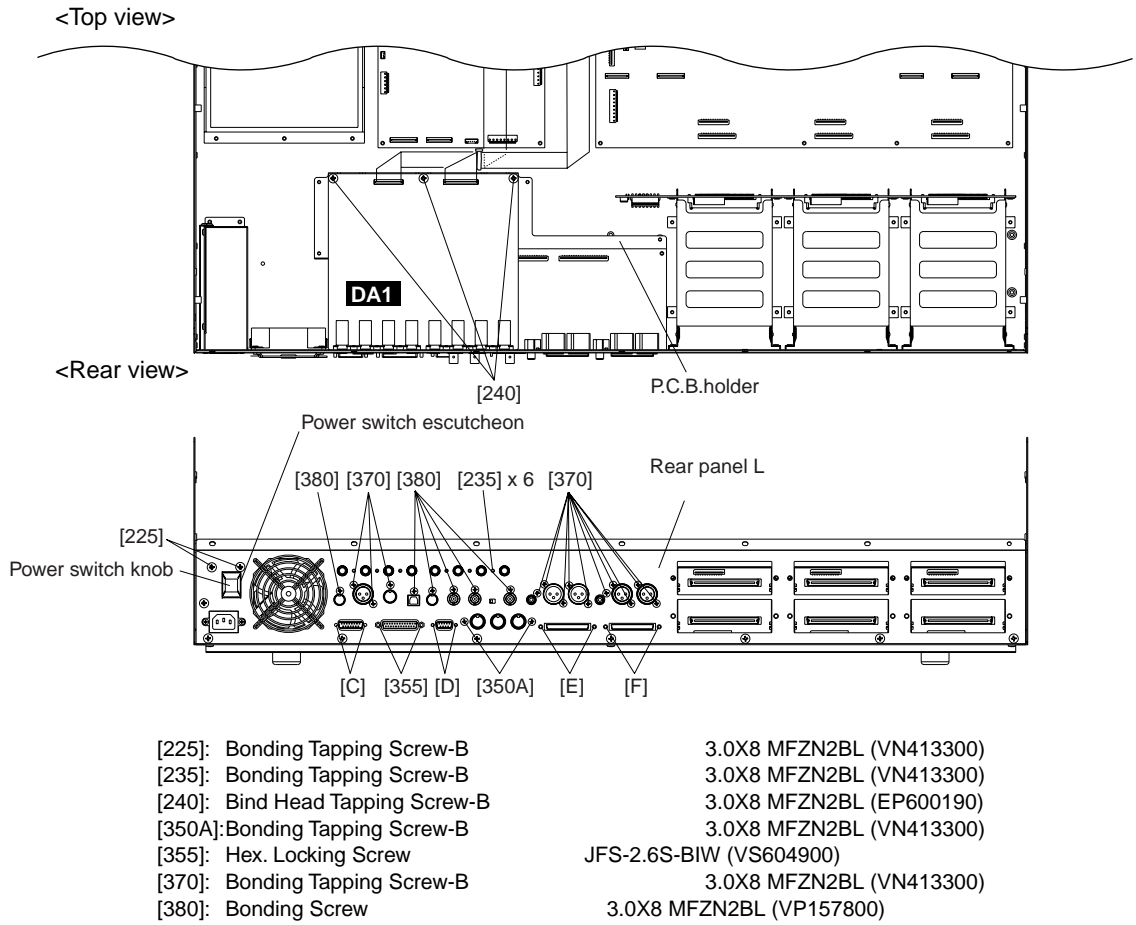


Fig.5

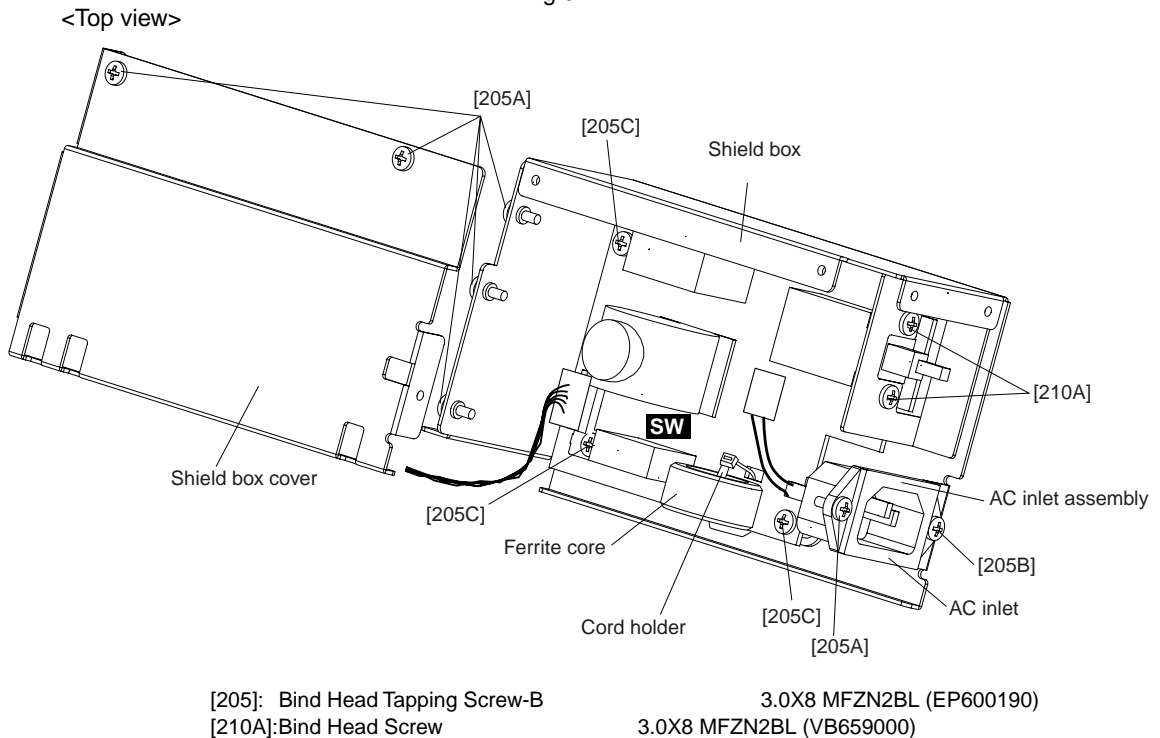


Fig.6

16. ANI Circuit Board

(Time required: About 20 minutes)

- 16-1. Remove the SP2000. (See procedure 1.)
- 16-2. Remove the MB2000. (See procedure 2.)
- 16-3. Fasten the control panel assembly. (See procedure 3.)
- 16-4. Remove the PC support. (See procedure 15.)
- 16-5. Remove the four (4) screws marked [160A] and disconnect the connector from the AD circuit board. The ANI circuit board can then be removed. (Fig.7)
*** There is a total of twenty-four (24) ANI circuit boards, and they can all be removed in this way.**

17. 2TRI, LRG, SML, ST, STD, PHN Circuit Boards

(Time required: About 20 minutes each)

- 17-1. Remove the SP2000. (See procedure 1.)
- 17-2. Remove the MB2000. (See procedure 2.)
- 17-3. Fasten the control panel assembly. (See procedure 3.)
- 17-4. Remove the PC support. (See procedure 15.)
- 17-5. **2TRI Circuit Board:**
Remove the two (2) screws marked [160B] and disconnect the connector from the DA2 circuit board. The 2TRI circuit board can then be removed. (Fig.7)
- 17-6. **LRG Circuit Board:**
Remove the four (4) screws marked [160C] and disconnect the connector from the DA2 circuit board. The LRG circuit board can then be removed. (Fig.7)
- 17-7. **SML Circuit Board:**
Remove the four (4) screws marked [160D] and disconnect the connector from the DA2 circuit board. The SML circuit board can then be removed. (Fig.7)
- 17-8. **ST Circuit Board:**
Remove the four (4) screws marked [160E] and disconnect the connector from the DA2 circuit board. The ST circuit board can then be removed. (Fig.7)
- 17-9. **STD Circuit Board:**
Remove the two (2) screws marked [160F] and disconnect the connector from the DA2 circuit board. The STD circuit board can then be removed. (Fig.7)
- 17-10. **PHN Circuit Board:**
Remove the two (2) screws marked [170] and disconnect the connector from the DA2 circuit board. The PHN circuit board can then be removed. (Fig.7)

18. AD Circuit Board

(Time required: About 25 minutes)

- 18-1. Remove the SP2000. (See procedure 1.)
- 18-2. Remove the MB2000. (See procedure 2.)
- 18-3. Fasten the control panel assembly. (See procedure 3.)
- 18-4. Remove the PC support. (See procedure 15.)
- 18-5. Remove the twelve (12) ANI circuit boards. (See procedure 16.)
- 18-6. Remove the eight (8) screws marked [80A]. The AD circuit board can then be removed. (Fig.8)
*** There is a total of two (2) AD circuit boards, and they can all be removed in this way.**

19. DA2 Circuit Board

(Time required: About 25 minutes)

- 19-1. Remove the SP2000. (See procedure 1.)
- 19-2. Remove the MB2000. (See procedure 2.)
- 19-3. Fasten the control panel assembly. (See procedure 3.)
- 19-4. Remove the PC support. (See procedure 15.)
- 19-5. Remove the 2TRI, LRG, SML, ST, STD and PHN circuit boards. (See procedure 17.)
- 19-6. Remove the eight (8) screws marked [80B]. The DA2 circuit board can then be removed. (Fig.8)

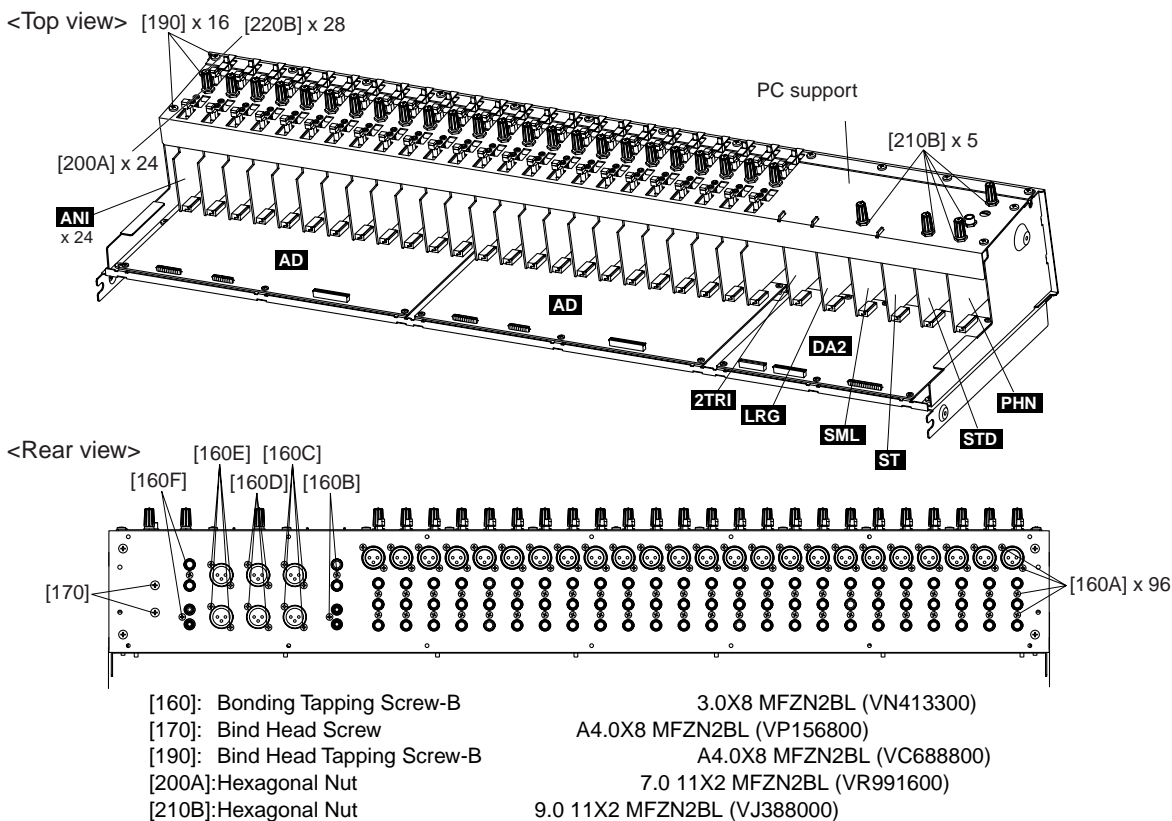


Fig.7

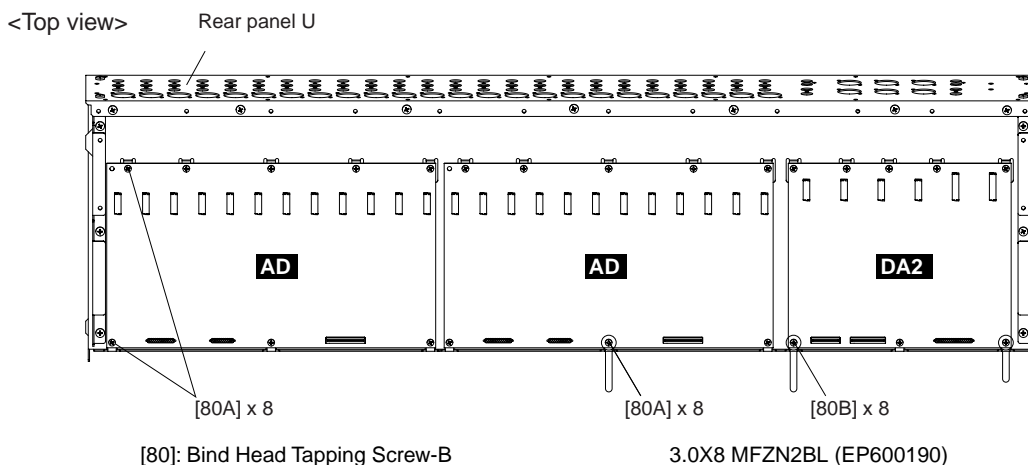


Fig.8

Control Panel Assembly

* When removing the circuit board, if it is hard to handle while the control panel assembly is fixed slantwise at the front stay, open it widely at 180° for the work.

20. SUB Circuit Board

(Time required: About 15 minutes)

- 20-1. Remove the SP2000. (See procedure 1.)
- 20-2. Remove the MB2000. (See procedure 2.)
- 20-3. Fasten the control panel assembly. (See procedure 3.)
- 20-4. Remove the ten (10) screws marked [200B]. The SUB circuit board can then be removed. (Fig.10)

21. PN1 Circuit Board

(Time required: About 20 minutes)

- 21-1. Remove the SP2000. (See procedure 1.)
- 21-2. Remove the MB2000. (See procedure 2.)
- 21-3. Remove the four (4) encoder knobs marked [330A] and the sixteen (16) encoder knobs marked [338A] from the control panel side. (Fig.9)
- 21-4. Fasten the control panel assembly. (See procedure 3.)
- 21-5. Remove the SUB circuit board. (See procedure 20.)
- 21-6. Remove the twenty-four (24) screws marked [150A]. The PN1 circuit board can then be removed. (Fig.11)

22. PN2 (1/2) Circuit Board

(Time required: About 20 minutes)

- 22-1. Remove the SP2000. (See procedure 1.)
- 22-2. Remove the MB2000. (See procedure 2.)
- 22-3. Remove the four (4) encoder knobs marked [330B], the five (5) encoder knobs marked [332], the four (4) encoder knobs marked [334], the eight (8) encoder knobs marked [336] and the eight (8) encoder knobs marked [338B] from the control panel side. (Fig.9)
- 22-4. Fasten the control panel assembly. (See procedure 3.)
- 22-5. Remove the twenty-one (21) screws marked [150B]. The PN2 (1/2) circuit board can then be removed. (Fig.11)

23. PN2 (2/2) Circuit Board

(Time required: About 15 minutes)

- 23-1. Remove the SP2000. (See procedure 1.)
- 23-2. Remove the MB2000. (See procedure 2.)
- 23-3. Fasten the control panel assembly. (See procedure 3.)
- 23-4. Remove the four (4) screws marked [150C]. The PN2 (2/2) circuit board can then be removed. (Fig.11)

24. PN3 Circuit Board

(Time required: About 20 minutes)

- 24-1. Remove the SP2000. (See procedure 1.)
- 24-2. Remove the MB2000. (See procedure 2.)
- 24-3. Remove the knob marked [340] and the two (2) knobs marked [350B] from the control panel side. (Fig.9)
- 24-4. Fasten the control panel assembly. (See procedure 3.)
- 24-5. Remove the eighteen (18) screws marked [150D]. The PN3 circuit board can then be removed. (Fig.11)

25. PN4 Circuit Board

(Time required: About 15 minutes)

- 25-1. Remove the SP2000. (See procedure 1.)
- 25-2. Remove the MB2000. (See procedure 2.)
- 25-3. Remove the knob wheel and the hexagonal nut from the control panel side. (Fig.9, Photo.8)
- 25-4. Fasten the control panel assembly. (See procedure 3.)
- 25-5. Remove the eight (8) screws marked [150E]. The PN4 circuit board can then be removed. (Fig.11)

26. FD1 Circuit Board

(Time required: About 20 minutes)

- 26-1. Remove the SP2000. (See procedure 1.)
- 26-2. Remove the MB2000. (See procedure 2.)
- 26-3. Remove the sixteen (16) fader knobs marked [320A] from the control panel side. (Fig.9)
- 26-4. Fasten the control panel assembly. (See procedure 3.)
- 26-5. Remove the sixteen (16) screws marked [230A]. The FD1 circuit board can then be removed. (Fig.10)

27. FD2 Circuit Board

(Time required: About 20 minutes)

- 27-1. Remove the SP2000. (See procedure 1.)
- 27-2. Remove the MB2000. (See procedure 2.)
- 27-3. Remove the nine (9) fader knobs marked [320B] from the control panel side. (Fig.9)
- 27-4. Fasten the control panel assembly. (See procedure 3.)
- 27-5. Remove the ten (10) screws marked [230B]. The FD2 circuit board can then be removed. (Fig.10)

28. DS Circuit Board

(Time required: About 15 minutes)

- 28-1. Remove the SP2000. (See procedure 1.)
- 28-2. Remove the MB2000. (See procedure 2.)
- 28-3. Fasten the control panel assembly. (See procedure 3.)
- 28-4. Remove the two (2) screws marked [270B]. The DS circuit board can then be removed with the smart media escutcheon and the smart media angle bracket. (Fig.10)
- 28-5. Remove the two (2) screws marked [265]. The smart media escutcheon and the smart media angle bracket can then be removed from the DS circuit board. (Fig.10)

29. Display Tube A and B (1/2, 2/2)

(Time required: About 15 minutes each)

- 29-1. Remove the SP2000. (See procedure 1.)
- 29-2. Remove the MB2000. (See procedure 2.)
- 29-3. Fasten the control panel assembly. (See procedure 3.)
- 29-4. **Display Tube A:**
Remove the four (4) screws marked [180A]. The display tube A can then be removed. (Fig.11)
- 29-5. **Display Tube B (1/2):**
Remove the four (4) screws marked [180B]. The display tube B (1/2) can then be removed. (Fig.11)

29-6. Display Tube B (2/2):

Remove the four (4) screws marked [180C]. The display tube B (2/2) can then be removed. (Fig.11)

30. LCD Assembly

(Time required: About 5 minutes)

30-1. Remove the eight (8) screws marked [290B] from the control panel side. The LCD assembly can then be removed. (Fig.9)

* Be careful no to scratch the control panel during installation.

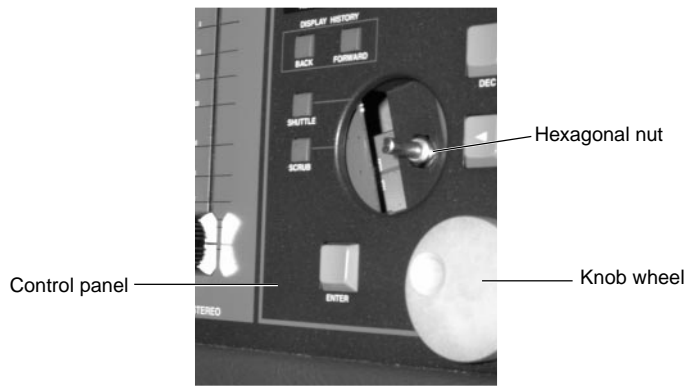
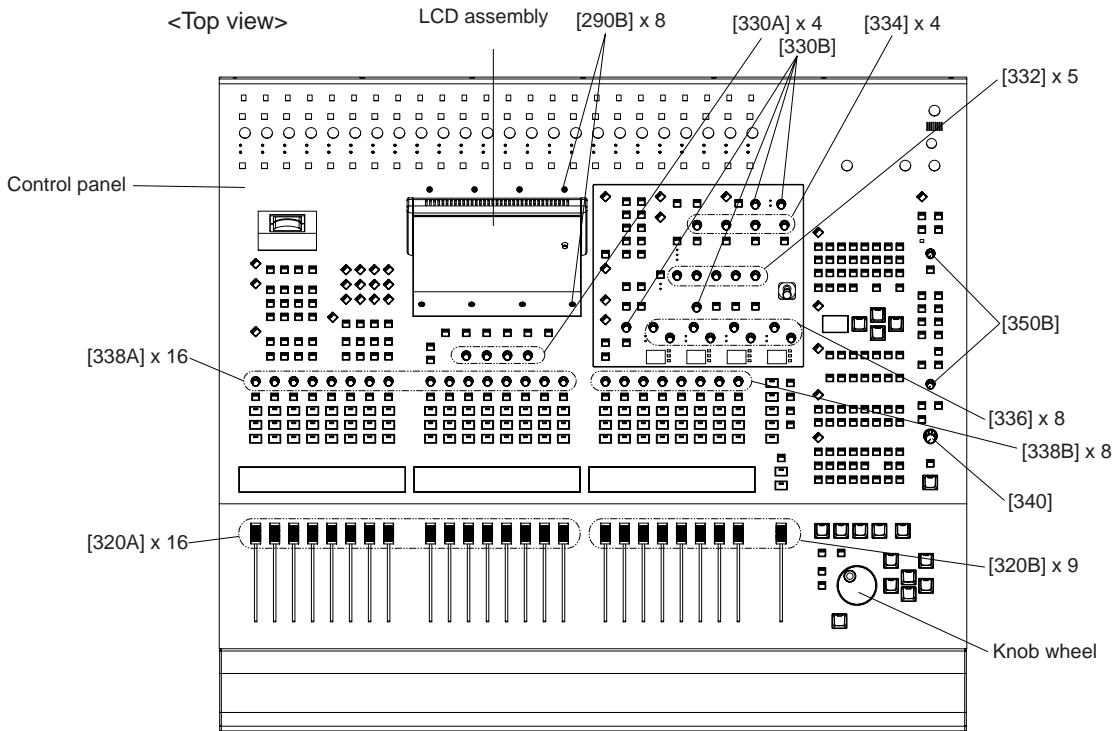


Photo.8

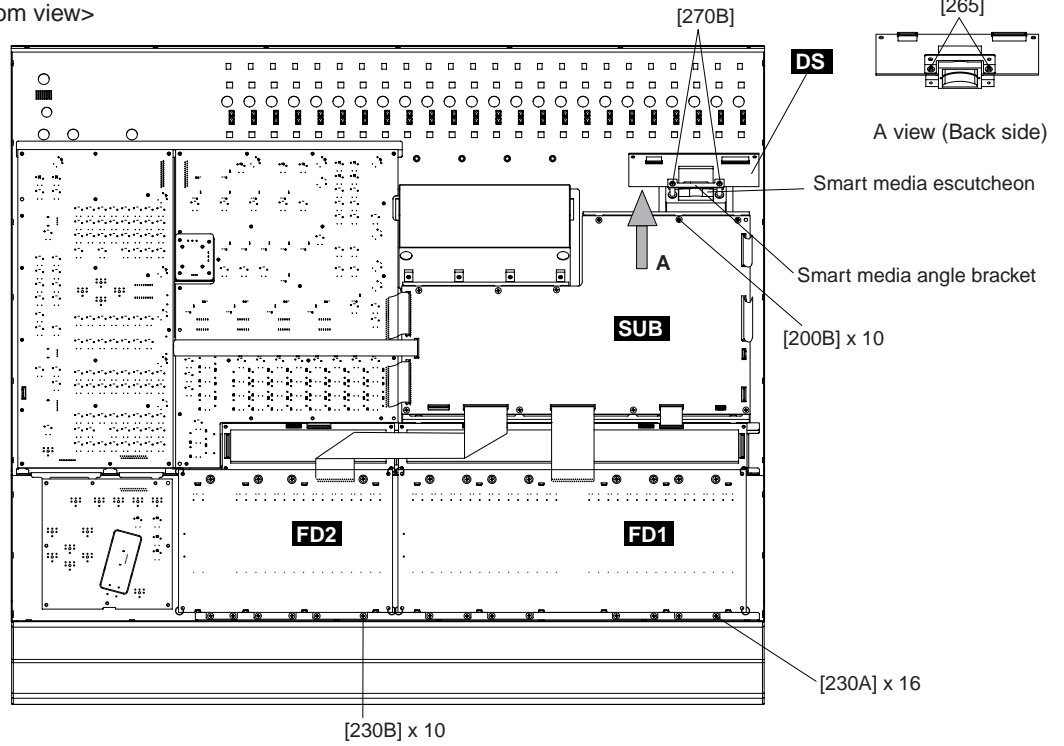


[290B]: Flat Head Tapping Screw-B

3.0X8 MFZN2BL (EP600790)

Fig.9

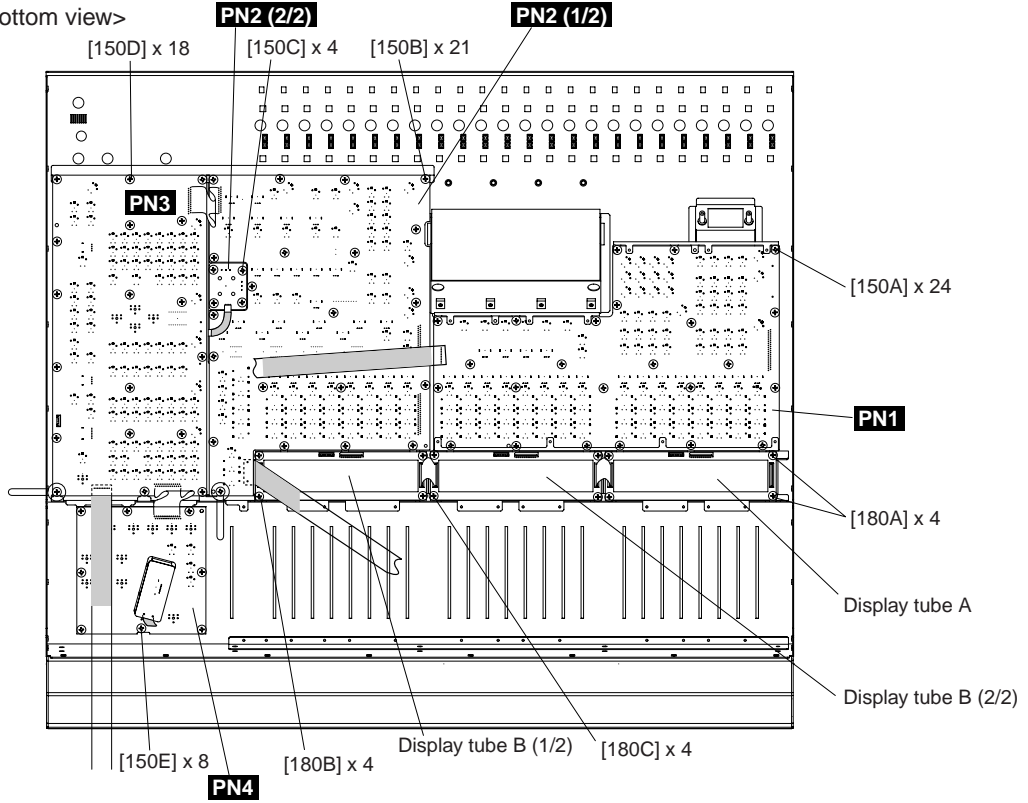
<Bottom view>



- | | |
|-----------------------------------|--------------------------|
| [200B]: Bind Head Tapping Screw-B | 3.0X8 MFZN2BL (EP600190) |
| [230]: Bind Head Tapping Screw-B | 3.0X8 MFZN2BL (EP600190) |
| [265]: Bind Head Tapping Screw-B | 3.0X8 MFZN2BL (EP600190) |
| [270B]: Bind Head Tapping Screw-B | 3.0X8 MFZN2BL (EP600190) |

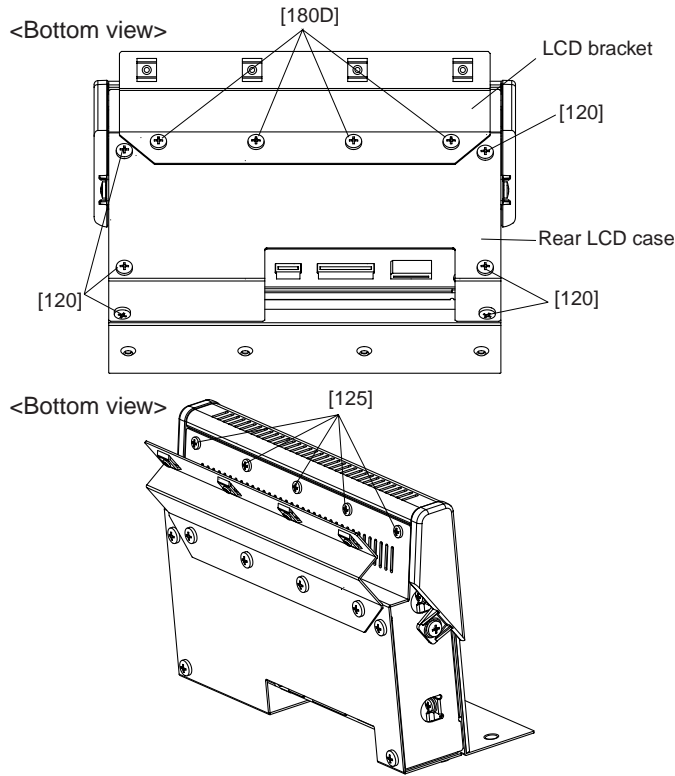
Fig.10

<Bottom view>



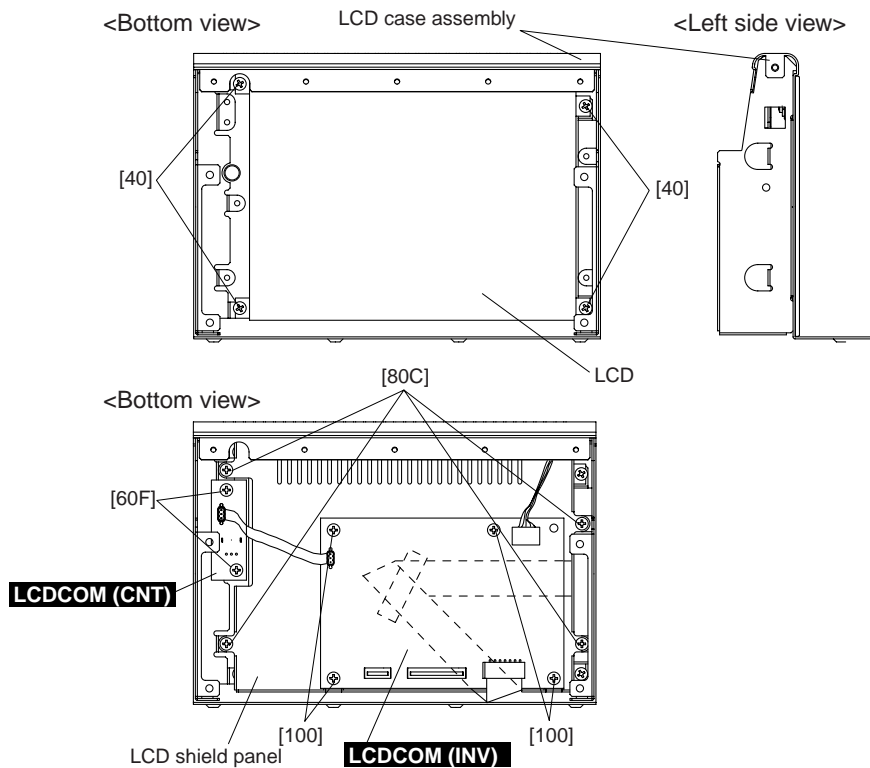
- | | |
|----------------------------------|--------------------------|
| [150]: Bind Head Tapping Screw-B | 3.0X8 MFZN2BL (EP600190) |
| [180]: Bind Head Tapping Screw-B | 3.0X8 MFZN2BL (EP600190) |

Fig.11



- | | |
|-----------------------------------|---------------------------|
| [120]: Bind Head Tapping Screw-B | A4.0X8 MFZN2BL (VC688800) |
| [125]: Bind Head Tapping Screw-B | A3.0X6 MFZN2BL (VP157900) |
| [180D]: Bind Head Tapping Screw-B | A4.0X8 MFZN2BL (VC688800) |

Fig.12



- | | |
|----------------------------------|--------------------------|
| [40]: Bind Head Tapping Screw-B | 3.0X6 MFZN2BL (EP600230) |
| [60F]: Bind Head Tapping Screw-B | 3.0X6 MFZN2BL (EP600230) |
| [80C]: Bind Head Tapping Screw-B | 3.0X6 MFZN2BL (EP600230) |
| [100]: Bind Head Tapping Screw-B | 3.0X6 MFZN2BL (EP600230) |

Fig.13

31. LCDCOM (CNT+INV) Circuit Board and LCD (Time required: About 15 minutes each)

- 31-1. Remove the LCD assembly. (See procedure 30.)
- 31-2. Remove the four (4) screws marked [180D]. The LCD bracket can then be removed. (Fig.12)
- 31-3. Remove the six (6) screws marked [120] and the five (5) screws marked [125]. The rear LCD case can then be removed. (Fig.12)
- 31-4. Remove the two (2) screws marked [60F] and the four (4) screws marked [80C]. The LCD shield panel can then be removed with the LCDCOM (CNT+INV) circuit board. (Fig.13)
- 31-5. **LCDCOM (CNT+INV) Circuit Board:**
Remove the four (4) screws marked [100]. The LCDCOM (CNT+INV) circuit board can then be removed from the LCD shield panel. (Fig.13)
* The CNT and INV circuit boards are joined by soldering.
Note: The INV circuit board must be handled carefully since it produces high voltages.
- 31-6. **LCD:**
Remove the four (4) screws marked [40]. The LCD can then be removed. (Fig.13)

Disassembling the MB2000

32. Rear Panel

(Time required: About 10 minutes)

- 32-1. Remove the MB2000. (See procedure 2.)
- 32-2. Remove the two (2) screws marked [G]. The meter angle L can then be removed from the MB2000. (Photo.9)
The meter angle R can be removed in the same manner.
- 32-3. Remove the twenty-four (24) screws marked [160G]. The rear panel can then be removed from the front panel. (Fig.14)

33. DC Circuit Board

(Time required: About 15 minutes)

- 33-1. Remove the rear panel. (See procedure 32.)
- 33-2. Remove the six (6) screws marked [90]. The DC circuit board can then be removed. (Fig.15)

34. PN1 and PN2 Circuit Boards

(Time required: About 15 minutes each)

- 34-1. Remove the rear panel. (See procedure 32.)
- 34-2. **PN1 Circuit Board:**
Remove the nine (9) screws marked [60G]. The PN1 circuit board can then be removed. (Fig.15)
- 34-3. **PN2 Circuit Board:**
Remove the nine (9) screws marked [60H]. The PN2 circuit board can then be removed. (Fig.15)

35. Cannon Connector

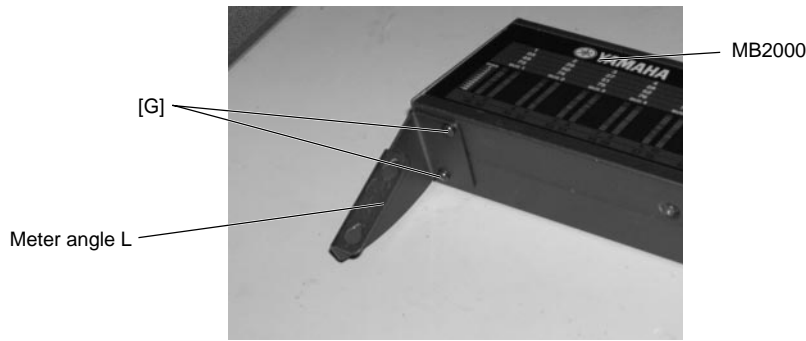
(Time required: About 15 minutes)

- 35-1. Remove the rear panel. (See procedure 32.)
- 35-2. Remove the two (2) screws marked [110] from the rear side. The cannon connector can then be removed. (Fig.15)
The opposite cannon connector can be removed in the same manner.

36. DSUB Cable

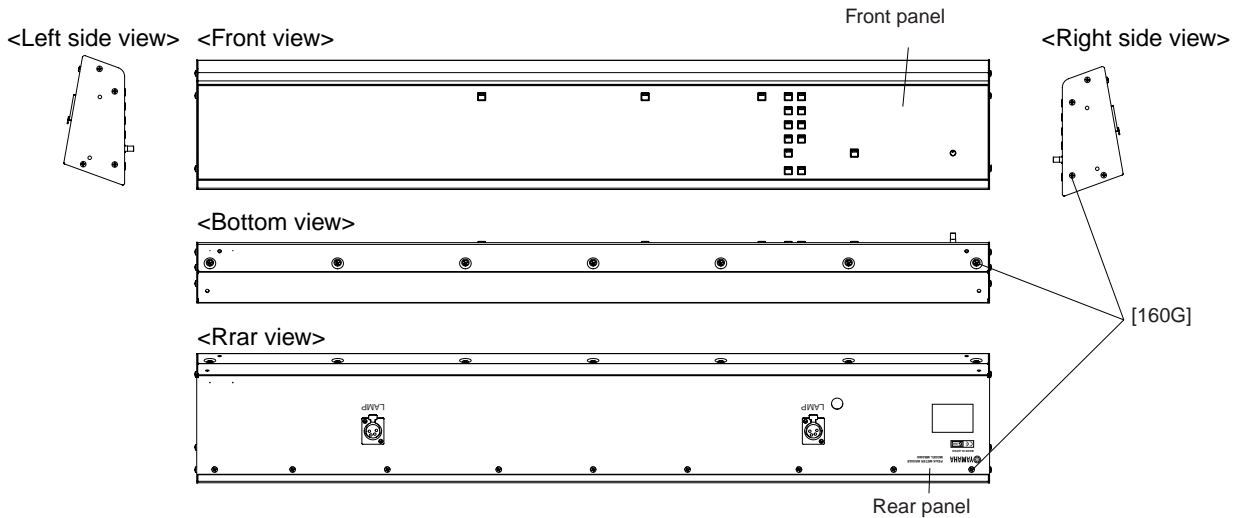
(Time required: About 15 minutes)

- 36-1. Remove the rear panel. (See procedure 32.)
- 36-2. Remove the screw marked [150F]. The cable holder can then be removed. (Fig.15)
- 36-3. Remove the DSUB cable with the bushing. (Fig.15)
* The bushing is not part of the DSUB cable.
When you replace the DSUB cable, you should remove the bushing from the cable, and attach in the new cable.



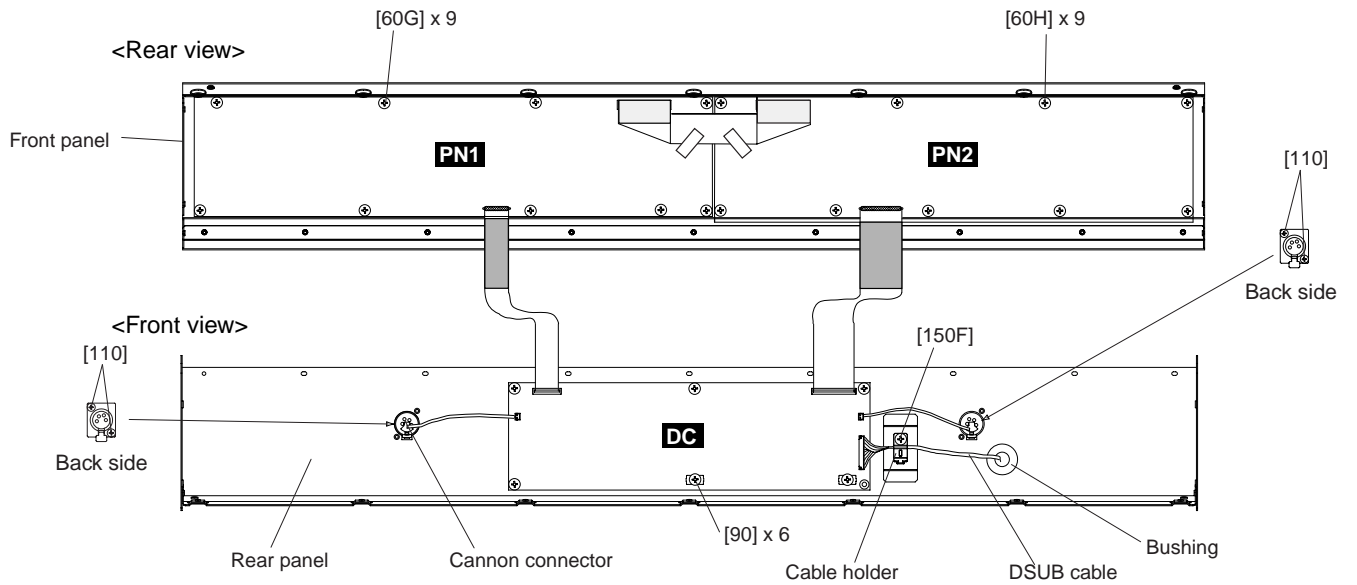
[G]: Bind Head Screw A4.0X8 MFZN2BL (VP156800)

Photo.9



[160G]: Bind Head Tapping Screw-B A3.0X8 MFZN2BL (VP157000)

Fig.14



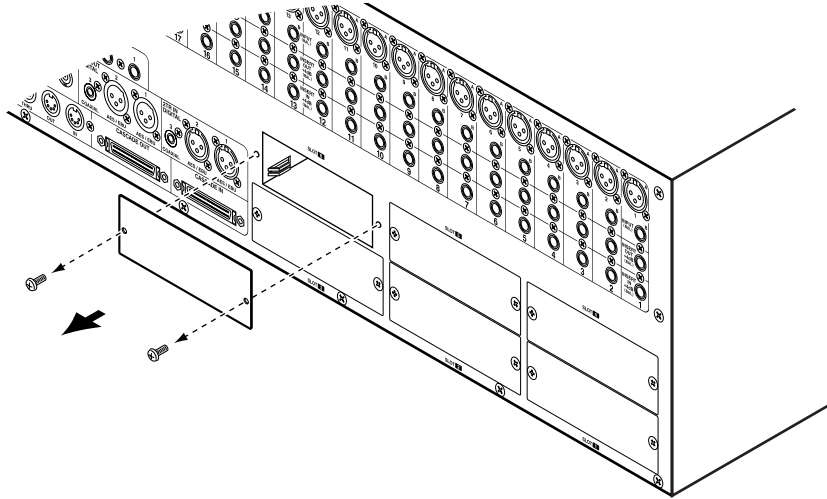
- | | | |
|---------|---------------------------|--------------------------|
| [60]: | Bind Head Tapping Screw-B | 3.0X8 MFZN2BL (EP600190) |
| [90]: | Bind Head Tapping Screw-B | 3.0X8 MFZN2BL (EP600190) |
| [110]: | Pan Head Screw | 2.6X8 MFNI33 (EE620190) |
| [150F]: | Bind Head Tapping Screw-B | 3.0X8 MFZN2BL (EP600190) |

Fig.15

■ INSTALLING I/O CARDS

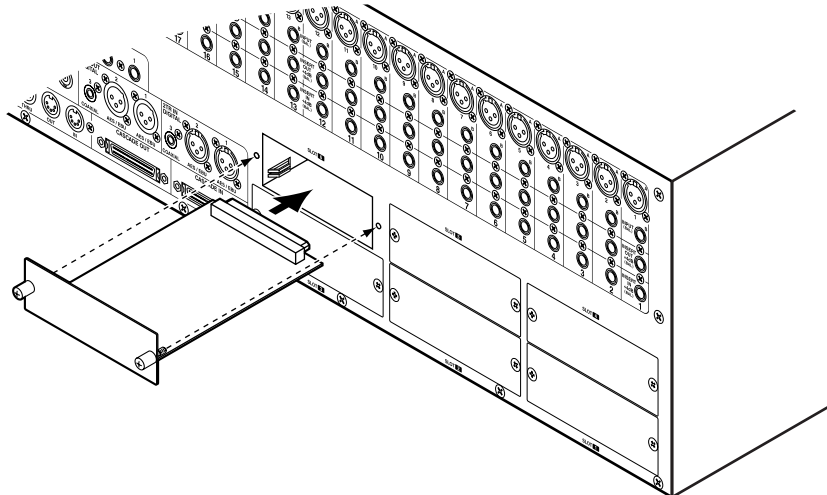
This section explains how to install I/O Cards.

- 1 Turn off the DM2000.
- 2 Undo the two fixing screws and remove the slot cover, as shown below.



Keep the cover and fixing screws in a safe place for future use.

- 3 Insert the card between the guide rails and slide it all the way into the slot, as shown below. You may have to push firmly to plug the card into the internal connector.



- 4 Secure the card using the attached thumbscrews. Do not leave them loose, as the card will not be grounded correctly, which may cause the DM2000 to malfunction.

You can check which I/O Cards are installed on the Word Clock Select page

LSI PIN DESCRIPTION

M37640M8-101FP (XW147100) CPU	59
32KM37640M8-138FP (X0157100) CPU	59
SH7709A FP-208C (XY065A00) CPU	60
HD64F7044F28 (X2962A00) CPU	61
HD6437042AF28 (X2824A00) CPU	61
YSS910-S (XV988A00) DSP6 (Digital Signal Processor)	62
YSS919-H (XZ693A00) DSP7 (Digital Signal Processor)	63
SGH603064F-62F (XV973A00) Gate Array	64
YM3436DK (XG948E00) DIR2 (Digital Format Interface Receiver)	64
YM6604C-S (XU240A00) ACIA (Asynchronous Communication Interface Adapter)	65
MSM82C51A-2GS-KR1 (XV513A00) USART (Universal Synchronous Asynchronous receiver Transmitter)	66
ICS2008A (XV619A00) T.C. Reader/Generator	66
CS8420 (XW559A00) SRC (Sample Rate Converter)	66
XCS40-3PQ240C (XZ334A00) FPGA (Field Programmable Gate Arrays)	67
S1D13305F00B100 (XQ595A00) LCDC (LCD Controller)	68
AK4393-VF-E2 (XW029A00) DAC (Digital to Analog Converter)	68
AK5393-VS-E2 (XZ298A00) ADC (Analog to Digital Converter)	68

● M37640M8-101FP (XW147100) CPU 32KM37640M8-138FP (X0157100) CPU

JK1: IC201

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	P6 ₁ /DQ ₁	I/O	Port 6	41	P1 ₇ /AB ₁₅	I/O	Port 1
2	P6 ₀ /DQ ₀	I/O	Port 6	42	P1 ₆ /AB ₁₄	I/O	
3	P5 ₇ //W(R//W)	I/O	Port 5	43	P1 ₅ /AB ₁₃	I/O	
4	P5 ₆ //R(E)	I/O					
5	P5 ₅ /A ₀	I/O					
6	P5 ₄ /S ₀	I/O					
7	P5 ₃ //IBF ₀	I/O					
8	P5 ₂ /OBF ₀	I/O					
9	CNV _{SS} /V _{PP}	I		Chip Operation Mode	44	P1 ₄ /AB ₁₂		I/O
10	/RESET	I	Reset Input	45	P1 ₃ /AB ₁₁	I/O	
11	P5 ₁ /T _{OUT} /X _{CO} UT	I/O	Port 5	46	P1 ₂ /AB ₁₀	I/O	
12	P5 ₀ /X _{CIN}	I/O	Port 5	47	P1 ₁ /AB ₉	I/O	
13	V _{SS}	-	Ground	48	P1 ₀ /AB ₈	I/O	
14	X _{IN}	I	Quartz Crystal Input	49	P0 ₇ /AB ₇	I/O	Port 0
15	X _{OUT}	O	Quartz Crystal Output	50	P0 ₆ /AB ₆	I/O	
16	V _{CC}	-	Power Supply	51	P0 ₅ /AB ₅	I/O	
17	AV _{CC}	-	Analog Power Supply	52	P0 ₄ /AB ₄	I/O	
18	LPF	O	Loop Filter for Synthesizer	53	P0 ₃ /AB ₃	I/O	
19	AV _{SS}	-	Analog Ground	54	P0 ₂ /AB ₂	I/O	
20	P4 ₄ /CNTR ₁	I/O	Port 4	55	P0 ₁ /AB ₁	I/O	
21	P4 ₃ /CNTR ₀	I/O					
22	P4 ₂ /INT ₁	I/O					
23	P4 ₁ /INT ₀	I/O					
24	P4 ₀ /EDMA	I/O					
25	P8 ₇ //RTS ₁	I/O					
26	P8 ₆ //CTS ₁	I/O					
27	P8 ₅ /URXD ₁	I/O	Port 8	56	P0 ₀ /AB ₀	I/O	
28	P8 ₄ /UTXD ₁	I/O					
29	P8 ₃ //RTS ₂ /STXD	I/O					
30	P8 ₂ //CTS ₂ /SRXD	I/O					
31	P8 ₁ /URXD ₂ /SCLK	I/O					
32	P8 ₀ /UTXD ₂ /SRDY	I/O					
33	P3 ₇ //RD	I/O					
34	P3 ₆ //WR	I/O					
35	P3 ₅ /SYNC _{OUT}	I/O					
36	P3 ₄ /φ _{OUT}	I/O		Port 3	57	P2 ₇ /DB ₇	I/O
37	P3 ₃ /DMA _{OUT}	I/O					
38	P3 ₂	I/O					
39	P3 ₁	I/O					
40	P3 ₀ /RDY	I/O					
					58	P2 ₆ /DB ₆	I/O
					59	P2 ₅ /DB ₅	I/O
				60	P2 ₄ /DB ₄	I/O	
				61	P2 ₃ /DB ₃	I/O	
				62	P2 ₂ /DB ₂	I/O	
				63	P2 ₁ /DB ₁	I/O	
				64	P2 ₀ /DB ₀	I/O	
				65	P7 ₄ /OBF ₁	I/O	
				66	P7 ₃ //IBF ₁ //HLDA	I/O	
				67	P7 ₂ /S ₁	I/O	
				68	P7 ₁ //HOLD	I/O	
				69	P7 ₀ /SOF	I/O	
				70	USB D+	I/O	USB +Voltage Line Interface
				71	USB D-	I/O		USB -Voltage Line Interface
				72	Ext. Cap	O	Power supply (3.3V)
				73	V _{SS}	-	Ground
				74	V _{CC}	-	Power Supply
				75	P6 ₇ /DQ ₇	I/O	Port 6
				76	P6 ₆ /DQ ₆	I/O	
				77	P6 ₅ /DQ ₅	I/O	
				78	P6 ₄ /DQ ₄	I/O	
				79	P6 ₃ /DQ ₃	I/O	
				80	P6 ₂ /DQ ₂	I/O	

● SH7709A FP-208C (XY065A00) CPU

CPU: IC101

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	MD1	I	Clock mode	105	CKE/PTK[5]	I/O	CK enable/Port K
2	MD2	I	Clock mode	106	RAS3L/PTJ[0]	I/O	DRAM row address strobe/Port J
3	Vcc-RTC*1	-	Power supply for RTC (1.8 V)	107	RAS2L/PTJ[1]	I/O	DRAM row address strobe/Port J
4	XTAL2	O	Crystal oscillator for RTC	108	CASLL/CASLPTJ[2]	I/O	Column address strobe (low)/Port J
5	EXTAL2	I	Crystal oscillator for RTC	109	VssO	-	Ground
6	Vss-RTC*1	-	Ground	110	CASLH/CASUPTJ[3]	I/O	Column address strobe (high)/Port J
7	NMI	I	Non-maskable interrupt request	111	VccO	-	Power supply (3.3 V)
8	IRO0/IRL0/PTH[0]	I	Interrupt request/Input port H	112	CASHL/PTJ[4]	I/O	HL Column address strobe/Port J
9	IRO1/IRL1/PTH[1]	I	Interrupt request/Input port H	113	CASHH/PTJ[5]	I/O	HH Column address strobe/Port J
10	IRO2/IRL2/PTH[2]	I	Interrupt request/Input port H	114	DACK0/PTD[5]	I/O	DMA acknowledge transfer strobe 0/Port D
11	IRO3/IRL3/PTH[3]	I	Interrupt request/Input port H	115	DACK1/PTD[7]	I/O	DMA acknowledge transfer strobe 1/Port D
12	IRO4/PTH[4]	I	Interrupt request/Input port H	116	CAS2L/PTE[6]	I/O	Column address strobe (low)/Port E
13	D31/PTB[7]	I/O	Data bus/Port B	117	CAS2H/PTE[3]	I/O	Column address strobe (high)/Port E
14	D30/PTB[6]	I/O	Data bus/Port B	118	RAS3U/PTE[2]	I/O	DRAM address strobe/Port E
15	D29/PTB[5]	I/O	Data bus/Port B	119	RAS2U/PTE[1]	I/O	DRAM address strobe/Port E
16	D28/PTB[4]	I/O	Data bus/Port B	120	TDO/PTE[0]	I/O	Test data output/Port E
17	D27/PYB[3]	I/O	Data bus/Port B	121	BACK	O	Bus acknowledge
18	D26/PTB[2]	I/O	Data bus/Port B	122	BREQ	I	Bus request
19	VssO	-	Ground	123	WAIT	I	Hardware wait request
20	D25/PTB[1]	I/O	Data bus/Port B	124	RESETM	I	Reset
21	VccO	-	Power supply (3.3 V)	125	ADTRG/PTH[5]	I	Analog trigger/Input port H
22	D24/PTB[0]	I/O	Data bus/Port B	126	IOIS16/PTG[7]	I	Write protect/Area 6 input/Input port G
23	D23/PTA[7]	I/O	Data bus/Port A	127	ASEMDO/PTG[6]	I	ASE mode/Input port G
24	D22/PTA[6]	I/O	Data bus/Port A	128	ASEBRKAK/PTG[5]	I/O	ASE break acknowledge/Input port G
25	D21/PTA[5]	I/O	Data bus/Port A	129	PTG[4]	I	Input port G
26	D20/PTA[4]	I/O	Data bus/Port A	130	AUDATA[3]/PTG[3]	I/O	AUD data/Input port G
27	Vss	-	Ground	131	AUDATA[2]/PTG[2]	I/O	AUD data/Input port G
28	D19/PTA[3]	I/O	Data bus/Port A	132	Vss	-	Ground
29	Vcc	-	Power supply (1.8 V)	133	AUDATA[1]/PTG[1]	I/O	AUD data/Input port G
30	D18/PTA[2]	I/O	Data bus/Port A	134	Vcc	-	Power supply (1.8 V)
31	D17/PTA[1]	I/O	Data bus/Port A	135	AUDATA[0]/PTG[0]	I/O	AUD data/Input port G
32	D16/PTA[0]	I/O	Data bus/Port A	136	TRSTPTF[7]/PINT[5]	I	Test reset/Input port F/Interrupt port
33	VssO	-	Ground	137	TMS/PTF[6]/PINT[4]	I	Test mode switch/Input port F/Interrupt port
34	D15	I/O	Data bus	138	TDI/PTF[5]/PINT[3]	I	Input test data/Input port F/Interrupt port
35	VccO	-	Power supply (3.3 V)	139	TCK/PTF[4]/PINT[2]	I	Test clock/Input port F/Interrupt port
36	D14	I/O	Data bus	140	IRLS[3]/PTF[3]/PINT[1]	I	Interrupt request/Input port F/Interrupt port
37	D13	I/O	Data bus	141	IRLS[2]/PTF[2]/PINT[0]	I	Interrupt request/Input port F/Interrupt port
38	D12	I/O	Data bus	142	IRLS[1]/PTF[1]/PINT[0]	I	Interrupt request/Input port F/Interrupt port
39	D11	I/O	Data bus	143	IRLS[0]/PTF[0]/PINT[0]	I	Interrupt request/Input port F/Interrupt port
40	D10	I/O	Data bus	144	MDO	I	Clock mode
41	D9	I/O	Data bus	145	Vcc-PLL1*2	-	PLL1 Power supply (1.8 V)
42	D8	I/O	Data bus	146	CAP1	-	PLL1 capacitor
43	D7	I/O	Data bus	147	Vss-PLL1*2	-	PLL1 Ground
44	D6	I/O	Data bus	148	Vss-PLL2*2	-	PLL2 Ground
45	VssO	-	Ground	149	CAP2	-	PLL2 capacitor
46	D5	I/O	Data bus	150	Vcc-PLL2*2	-	PLL2 Power supply (1.8 V)
47	VccO	-	Power supply (3.3 V)	151	AUDCK/PTH[6]	I	AUD clock/Input port H
48	D4	I/O	Data bus	152	Vss	-	Ground
49	D3	I/O	Data bus	153	Vss	-	Ground
50	D2	I/O	Data bus	154	Vcc	-	Power supply (1.8 V)
51	D1	I/O	Data bus	155	XTAL	O	Clock oscillator
52	D0	I/O	Data bus	156	EXTAL	I	Clock/Crystal oscillator
53	A0	I	Address bus	157	STATUS0/PTJ[6]	I/O	cessor status/Port J
54	A1	I	Address bus	158	STATUS1/PTJ[7]	I/O	Pross./Port J
55	A2	I	Address bus	159	TCLK/PTH[7]	I/O	Clock/Port H
56	A3	I	Address bus	160	IROOUT	O	'Interrupt request
57	VssO	-	Ground	161	VssO	-	Ground
58	A4	I	Address bus	162	CKIO	I/O	System Clock
59	VccO	-	Power supply (3.3 V)	163	VccO	-	Power supply (3.3 V)
60	A5	I	Address bus	164	TxD0/SCPT[0]	O	Data transmission 0/Output port
61	A6	I	Address bus	165	SOK0/SCPT[1]	I/O	Serial clock/Port
62	A7	I	Address bus	166	TxD1/SCPT[2]	O	Data transmission 1/Output port
63	A8	I	Address bus	167	SCK1/SCPT[3]	I/O	Serial clock/Port
64	A9	I	Address bus	168	TxD2/SCPT[4]	O	Data transmission 2/Output port
65	A10	I	Address bus	169	SCK2/SCPT[5]	I/O	Serial clock/Port
66	A11	I	Address bus	170	RTS2/SCPT[6]	I/O	Request to send 2/Output port
67	A12	I	Address bus	171	RxD0/SCPT[0]	I	Data reception 0/Output port
68	A13	I	Address bus	172	RxD1/SCPT[2]	I	Data reception 1/Output port
69	VssO	-	Ground	173	Vss	-	Ground
70	A14	I	Address bus	174	RxD2/SCPT[4]	I	Data reception 2/Output port
71	VccO	-	Power supply (3.3 V)	175	Vcc	-	Power supply (1.8 V)
72	A15	I	Address bus	176	CTS2/IR0S/SCPT[7]	I	Clear to send 2/Interrupt request/Input port
73	A16	I	Address bus	177	MCS[7]/PTC[7]/PINT[7]	I/O	Mask chip select/Port C/Interrupt port
74	A17	I	Address bus	178	MCS[6]/PTC[6]/PINT[6]	I/O	Mask chip select/Port C/Interrupt port
75	A18	I	Address bus	179	MCS[5]/PTC[5]/PINT[5]	I/O	Mask chip select/Port C/Interrupt port
76	A19	I	Address bus	180	MCS[4]/PTC[4]/PINT[4]	I/O	Mask chip select/Port C/Interrupt port
77	A20	I	Address bus	181	VssO	-	Ground
78	A21	I	Address bus	182	WAKEUP/PTD[3]	I/O	Standby mode/Port D
79	Vss	-	Ground	183	VccO	-	Power supply (3.3 V)
80	A22	I	Address bus	184	RESETOUT/PTD[2]	I/O	Reset output/Port D
81	Vcc	-	Power supply (1.8 V)	185	MCS[3]/PTC[3]/PINT[3]	I/O	Mask chip select/Port C/Interrupt port
82	A23	I	Address bus	186	MCS[2]/PTC[2]/PINT[2]	I/O	Mask chip select/Port C/Interrupt port
83	VssO	-	Ground	187	MCS[1]/PTC[1]/PINT[1]	I/O	Mask chip select/Port C/Interrupt port
84	A24	I	Address bus	188	MCS[0]/PTC[0]/PINT[0]	I/O	Mask chip select/Port C/Interrupt port
85	VccO	-	Power supply (3.3 V)	189	DRAK0/PTD[1]	I/O	DMA transfer request/Port D
86	A25	I	Address bus	190	DRAK1/PTD[0]	I/O	DMA transfer request/Port D
87	BS/PTK[4]	I/O	Bus cycle signal start/Port K	191	DREQ0/PTD[4]	I	DMA transfer request/Input port D
88	RD	O	Read strobe	192	DREQ1/PTD[6]	I	DMA transfer request/Input port D
89	WE0/DOMLL	O	D7-D0 select signal/DOM (SDRAM)	193	RESETP	I	Power on reset
90	WE1/DOMLU/WE	O	D15-D8 select signal/DOM (SDRAM)	194	CA	I	Chip active/Hardware stand by request
91	WE2/DOMLUC/RDP/PTK[8]	I/O	D23-D16 select signal/DOM (SDRAM)/PCMCIA I/O read/Port K	195	MD3	I	Area 0 bus allocation
92	WE3/DOMLUC/WR/PTK[7]	I/O	D31-D24 select signal/DOM (SDRAM)/PCMCIA I/O write/Port K	196	MD4	I	Area 0 bus allocation
93	RD/WR	O	Read/Write	197	MD5	I	Area 0 bus allocation
94	AUDSYNC/PTE[7]	I/O	AUD sync. signal/Port E	198	AVss	-	Ground
95	VssO	-	Ground	199	AN[0]/PTL[0]	I	AD converter input/Input port L
96	CS0/MCS[0]	O	Chip select/Mask ROM chip select	200	AN[1]/PTL[1]	I	AD converter input/Input port L
97	VccO	-	Power supply (3.3 V)	201	AN[2]/PTL[2]	I	AD converter input/Input port L
98	CS2/PTK[0]	I/O	Chip select2/Port K	202	AN[3]/PTL[3]	I	AD converter input/Input port L
99	CS3/PTK[1]	I/O	Chip select3/Port K	203	AN[4]/PTL[4]	I	AD converter input/Input port L
100	CS4/PTK[2]	I/O	Chip select4/Port K	204	AN[5]/PTL[5]	I	AD converter input/Input port L
101	CS5/CE1A/PTK[3]	I/O	Chip selects/CE1/Port K	205	AVcc (3.3 V)	-	Analog Power supply (3.3 V)
102	CS6/CE1B	I/O	Chip selects/CE1	206	AN[6]/DA[1]/PTL[6]	I	AD converter input/Input port L
103	CE2A/PTE[4]	I/O	Card enable/Port E	207	AN[7]/DA[0]/PTL[7]	I	AD converter input/Input port L
104	CE2B/PTE[5]	I/O	Card enable/Port E	208	AVss	-	Ground

• HD64F7044F28 (X2962A00) CPU
 HD6437042AF28 (X2824A00) CPU

DM2000/SUB: IC101, 107
 MB2000/PN2: IC211

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	PE14	O	Port E	57	D11	I/O	Data bus
2	PE15	O	Port E	58	D10	I/O	
3	VSS	I	Ground	59	D9	I/O	
4	A0	O	Address bus	60	D8	I/O	Data bus
5	A1	O					
6	A2	O					
7	A3	O					
8	A4	O					
9	A5	O					
10	A6	O					
11	A7	O					
12	A8	O					
13	A9	O					
14	A10	O					
15	A11	O					
16	A12	O					
17	A13	O					
18	A14	O					
19	A15	O					
20	A16	O					
21	VCC	I	Power supply	61	VSS	I	Ground
22	A17	O	Address bus	62	D7	I/O	Data bus
23	VSS	I	Ground	63	D6	I/O	
24	PB2//IRQ0	I	Port B / Interrupt request	64	D5	I/O	
25	PB3//IRQ1	I	Port B / Interrupt request	65	VCC	I	Power supply
26	PB4//IRQ2	I	Port B / Interrupt request	66	D4	I/O	Data bus
27	VSS	O	Ground	67	D3	I/O	
28	PB5//IRQ3	I	Port B / Interrupt request	68	D2	I/O	
29	A18	O	Address bus	69	D1	I/O	Data bus
30	A19	O					
31	A20	O					
32	PB9 /A21	O		Port B / Address bus	70	D0	I/O
33	VSS	I	Ground	71	VSS	I	Ground
34	/RD	O	Read	72	XTAL	I	Crystal oscillator
35	/WDTOVF	O	Watch dog timer overflow	73	MD3	I	Mode control
36	/WRH	O	High write	74	EXTAL	I	Crystal oscillator
37	VCC	I	Power supply	75	MD2	I	Mode control
38	/WRL	O	Low write	76	NMI	I	Non-maskable interrupt request
39	VSS	I	Ground	77	VCC	I	Power supply
40	/CS1	O	Chip select	78	MD1	I	Mode control
41	/CS0	O	Chip select	79	MD0	I	Mode control
42	PA9//IRQ3	I	Port A / Interrupt request	80	PLLVCC	I	PLL Power supply
43	PA8//IRQ2	I	Port A / Interrupt request	81	PLLCAP	I	PLL capacitor
44	/CS3	O	Chip select	82	PLLVSS	I	PLL Ground
45	/CS2	O	Chip select	83	PA15 / CK	O	Port A / Clock
46	PA5//IRQ1	I	Port A / Interrupt request	84	/RES	I	Reset
47	TXD1	O	Data transmission	85	PE0	I	Port E
48	RXD1	I	Data reception	86	PE1	I	
49	/IRQ0	I	Interrupt request	87	PE2	I	
50	PA1 / TXD0	O	Port A / Data transmission	88	PE3	I	Ground
51	PA0 / RXD0	I	Port A / Data reception	89	PE4	I	
52	D15	I/O	Data bus	90	VSS	I	
53	D14	I/O					
54	D13	I/O					
55	VSS	I	Ground	91	AN0 / PF0	I	Analog input / Port F
56	D12	I/O	Data bus	92	AN1 / PF1	I	
				93	AN2 / PF2	I	
				94	AN3 / PF3	I	
				95	AN4 / PF4	I	
				96	AN5 / PF5	I	Analog ground
				97	AVSS	I	
				98	AN6 / PF6	I		Analog input / Port F
				99	AN7 / PF7	I	Analog input / Port F
				100	AVCC	I	Power supply
				101	VSS	I	Ground
				102	PE5	O	Port E
				103	VCC	I	Power supply
				104	PE6	O	Port E
				105	PE7	O	
				106	PE8	O	
				107	PE9	O	Ground
				108	PE10	O	
				109	VSS	I	
				110	PE11	O	Port E
				111	PE12	O	
				112	PE13	O	

● YSS910-S (XV988A00) DSP6 (Digital Signal Processor)

DSP: IC401-408

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	Vdd		Power supply (3.3V)	89	Vss		Ground
2	Vss		Ground	90	DB13	I/O	Parallel data bus
3	XI	I	System master clock input (60MHz or 30MHz)	91	DB14	I/O	
4	XO	O	System master clock output (High or 30MHz)	92	DB15	I/O	
5	Vdd		Power supply (5V)	93	DB16	I/O	
6	/SYNCI	I	Sync. signal input	94	DB17	I/O	
7	/SYNCO	O	Sync. signal output	95	DB18	I/O	
8	Vdd		Power supply (5V)	96	DB19	I/O	
9	CKI	I	System clock input (30MHz)	97	DB20	I/O	Ground
10	CKO	O	System clock output (30MHz)	98	DB21	I/O	
11	CKSEL	I	System master clock select (0: 60MHz, 1: 30MHz)	99	DB22	I/O	
12	Vss		Ground	100	Vss		Power supply (3.3V)
13	MCKS	I	Serial I/O master clock input (128 x Fs)	101	Vdd		
14	/SSYNC	I	Serial I/O Sync. signal output	102	DB23	I/O	Parallel data bus
15	/IC	I	Initial clear	103	DB24	I/O	
16	/TEST	I	Test mode setting (0: Test, 1: Normal)	104	DB25	I/O	
17	BTYP	I	Data bus type select (0: 8bit, 1: 16bit)	105	DB26	I/O	
18	/IRQ	O	IRQ output	106	DB27	I/O	
19	TRIG	I/O	Trigger signal input/output	107	DB28	I/O	
20	Vdd		Power supply (5V)	108	DB29	I/O	
21	Vss		Ground	109	DB30	I/O	Timing signal output/ Parallel data bus output/ input
22	/CS	I	chip select signal input	110	DB31	I/O	
23	/WR	I	Write signal input	111	TIMO/DBOB	I/O	Ground
24	/RD	I	Read signal input	112	Vss		
25	CA7	I/O	Address bus of internal register	113	Vdd		Power supply (5V)
26	CA6	I/O					
27	CA5	I/O					
28	CA4	I/O					
29	CA3	I/O					
30	CA2	I/O					
31	CA1	I/O					
32	Vss		Ground	114	DA00	I/O	Memory data bus
33	Vdd		Power supply (3.3V)	115	DA01	I/O	
34	CD15	I/O	Data bus of internal register	116	DA02	I/O	
35	CD14	I/O					
36	CD13	I/O					
37	CD12	I/O					
38	CD11	I/O					
39	CD10	I/O					
40	CD09	I/O					
41	CD08	I/O	Ground	117	DA03	I/O	
42	CD07	I/O					
43	CD06	I/O	Power supply (3.3V)	118	DA04	I/O	
44	Vss						
45	Vdd		Power supply (5V)	119	DA05	I/O	
46	Vdd						
47	CD05	I/O	Data bus of internal register	120	DA06	I/O	Ground
48	CD04	I/O					
49	CD03	I/O					
50	CD02	I/O					
51	CD01	I/O					
52	CD00	I/O					
53	/WAIT	O		WAIT output	121	DA07	I/O
54	Vss		Ground	122	Vss		Memory data bus
55	SI0	I	Serial data input	123	DA08	I/O	
56	SI1	I					
57	SI2	I					
58	SI3	I					
59	SI4	I					
60	SI5	I					
61	SI6	I					
62	SI7	I	Ground	124	DA09	I/O	
63	Vss						
64	Vdd		Power supply (5V)	125	DA10	I/O	
65	SO0	O					
66	SO1	O	Serial data output	126	DA11	I/O	Memory data bus
67	SO2	O					
68	SO3	O					
69	SO4	O					
70	SO5	O					
71	SO6	O					
72	SO7	O					
73	Vss		Ground	127	DA12	I/O	
74	DB00	I/O	Parallel data bus	128	DA13	I/O	
75	DB01	I/O					
76	DB02	I/O					
77	DB03	I/O					
78	DB04	I/O					
79	DB05	I/O					
80	DB06	I/O					
81	DB07	I/O					
82	DB08	I/O					
83	DB09	I/O					
84	DB10	I/O					
85	DB11	I/O					
86	DB12	I/O					
87	Vdd		Power supply (5V)	129	DA14	I/O	
88	Vdd						
			Power supply (3.3V)	130	DA15	I/O	Ground
				131	Vss		
				132	Vdd		Power supply (3.3V)
				133	(n.c)		
				134	Vdd		Not used
				135	DA16	I/O	
				136	DA17	I/O	Memory data bus
				137	DA18	I/O	
				138	DA19	I/O	
				139	DA20	I/O	
				140	DA21	I/O	
				141	DA22	I/O	
				142	DA23	I/O	
				143	Vss		Ground
				144	DA24	I/O	
				145	DA25	I/O	Memory data bus
				146	DA26	I/O	
				147	DA27	I/O	
				148	DA28	I/O	
				149	DA29	I/O	
				150	DA30	I/O	
				151	DA31	I/O	
				152	Vdd		Power supply (5V)
				153	Vss		
				154	A00	O	Ground
				155	A01	O	
				156	A02	O	
				157	A03	O	
				158	A04	O	
				159	A05	O	
				160	A06	O	
				161	A07	O	Memory address (SRAM, PSRAM, DRAM)
				162	A08	O	
				163	A09	O	Ground
				164	Vss		
				165	Vdd		Power supply (3.3V)
				166	A10	O	
				167	A11	O	Memory address (SRAM, PSRAM, DRAM)
				168	A12	O	
				169	A13	O	Memory address (SRAM, PSRAM)
				170	A14	O	
				171	A15/RAS	O	Memory address (SRAM, PSRAM), /RAS (DRAM)
				172	A16/CAS	O	
				173	A17/CE	O	Memory address (SRAM, PSRAM), /CAS (DRAM)
				174	/WE	O	
				175	/OE	O	Memory write enable signal
				176	Vdd		
							Memory output enable signal
							Power supply (5V)

● YSS919-H (XZ693A00) DSP7 (Digital Signal Processor)

DSP: IC101-114

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION	
1	PLLEN	I	PLL enable input (0: PLL unuse, 1: PLL use)	105	SIO32	I/O	Serial data bus	
2	/TEST	I	Test mode setting (0: TEST, 1: Normal)	106	SIO33	I/O		
3	AVSS	I	Analog ground	107	SIO34	I/O		
4	CPO	I	PLL filter	108	SIO35	I/O		
5	AVDD	I	Power supply (2.5 V)	109	SIO36	I/O		
6	VSS	I	Ground	110	SIO37	I/O		
7	VDD	I	Power supply (3.3 V)	111	SIO38	I/O		
8	/IC	I	Initial clear	112	SIO39	I/O		
9	/MUTE	I	Mute control (0: SIO mute, 1: SIO normal in-out)	113	VDD	I		Power supply (2.5 V) Ground
10	/SSYNC	I	Serial I/O Sync. signal input	114	VSS	I		
11	MCKS	I	Serial I/O master clock input (128 x Fs)	115	SIO40	I/O		
12	XI	I	System master clock input (60 MHz or 15 MHz)	116	SIO41	I/O	Serial data bus	
13	BTYP	I	Data bus type select (0: 16 bits, 1: 32 bits)	117	SIO42	I/O		
14	/CS	I	Chip select	118	SIO43	I/O		
15	/WR	I	Write enable input	119	SIO44	I/O		
16	/RD	I	Read enable input	120	SIO45	I/O		
17	CA7	I	CPU address bus	121	SIO46	I/O		
18	CA6	I			122	SIO47		I/O
19	CA5	I			123	VSS		I
20	CA4	I			124	VDD		I
21	CA3	I			125	SIO48		I/O
22	CA2	I			126	SIO49	I/O	
23	VSS	I		Ground	127	SIO50	I/O	
24	VDD	I	Power supply (3.3 V)	128	SIO51	I/O	Serial data bus	
25	CD31/CA1	I/O	CPU data bus / CPU address bus	129	SIO52	I/O		
26	CD30	I/O	CPU data bus	130	SIO53	I/O		
27	CD29	I/O			131	SIO54		I/O
28	CD28	I/O			132	SIO55		I/O
29	CD27	I/O			133	VSS		I
30	CD26	I/O			134	SIO56		I/O
31	CD25	I/O			135	SIO57		I/O
32	CD24	I/O			136	SIO58		I/O
33	VDD	I	Power supply (2.5 V)	137	SIO59	I/O		Serial data bus
34	VSS	I	Ground	138	SIO60	I/O		
35	CD23	I/O	CPU data bus	139	SIO61	I/O		
36	CD22	I/O			140	SIO62	I/O	
37	CD21	I/O			141	SIO63	I/O	
38	CD20	I/O			142	VDD	I	
39	CD19	I/O			143	VSS	I	
40	CD18	I/O			144	VDD	I	
41	CD17	I/O			145	DA00	I/O	
42	CD16	I/O		146	DA01	I/O	Memory data bus	
43	VSS	I	Ground	147	DA02	I/O		
44	VDD	I	Power supply (3.3 V)	148	DA03	I/O		
45	CD15	I/O	CPU data bus	149	DA04	I/O		
46	CD14	I/O			150	DA05		I/O
47	CD13	I/O			151	DA06		I/O
48	CD12	I/O			152	DA07		I/O
49	CD11	I/O			153	VSS		I
50	CD10	I/O			154	DA08		I/O
51	CD09	I/O			155	DA09		I/O
52	CD08	I/O		156	DA10	I/O	Memory data bus	
53	VSS	I	Ground	157	DA11	I/O		
54	CD07	I/O	CPU data bus	158	DA12	I/O		
55	CD06	I/O			159	DA13		I/O
56	CD05	I/O			160	DA14		I/O
57	CD04	I/O			161	DA15		I/O
58	CD03	I/O			162	VSS		I
59	CD02	I/O			163	VDD		I
60	CD01	I/O			164	DA16		I/O
61	CD00	I/O		165	DA17	I/O		
62	/WAIT	O	Wait output	166	DA18	I/O	Memory data bus	
63	VDD	I	Power supply (2.5 V)	167	DA19	I/O		
64	VSS	I	Ground	168	DA20	I/O		
65	VDD	I	Power supply (3.3 V)	169	DA21	I/O		
66	SIO0	I/O	Serial data bus	170	DA22	I/O		
67	SIO1	I/O			171	DA23		I/O
68	SIO2	I/O			172	VDD		I
69	SIO3	I/O			173	VSS		I
70	SIO4	I/O			174	DA24		I/O
71	SIO5	I/O			175	DA25		I/O
72	SIO6	I/O			176	DA26	I/O	
73	SIO7	I/O			177	DA27	I/O	
74	VSS	I		Ground	178	DA28	I/O	
75	SIO8	I/O		Serial data bus	179	DA29	I/O	
76	SIO9	I/O			180	DA30	I/O	
77	SIO10	I/O			181	DA31	I/O	
78	SIO11	I/O			182	VSS	I	
79	SIO12	I/O			183	VDD	I	
80	SIO13	I/O			184	/WE	O	
81	SIO14	I/O			185	/CAS	O	
82	SIO15	I/O			186	SDCK	O	
83	VSS	I	Ground		187	CKE	O	
84	VDD	I	Power supply (3.3 V)		188	/RAS	O	
85	SIO16	I/O	Serial data bus	189	VDD	I		
86	SIO17	I/O			190	VSS	I	
87	SIO18	I/O			191	BA1	O	
88	SIO19	I/O			192	BA0	O	
89	SIO20	I/O			193	A12	O	
90	SIO21	I/O			194	A11	O	
91	SIO22	I/O			195	A10	O	
92	SIO23	I/O			196	A09	O	
93	VDD	I		Power supply (2.5 V)	197	A08	O	
94	VSS	I		Ground	198	VSS	I	
95	SIO24	I/O	Serial data bus	199	VDD	I		
96	SIO25	I/O			200	A07	O	
97	SIO26	I/O			201	A06	O	
98	SIO27	I/O			202	A05	O	
99	SIO28	I/O			203	A04	O	
100	SIO29	I/O			204	A03	O	
101	SIO30	I/O			205	A02	O	
102	SIO31	I/O			206	A01	O	
103	VSS	I		Ground	207	A00	O	
104	VDD	I		Power supply (3.3 V)	208	VSS	I	

• SGH603064F-62F (XV973A00) Gate Array

SUB: IC119-122

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	RA1	I	Encoder input	33	D0	O	Data bus
2	RB1	I		34	D1	O	
3	RA2	I		35	Vss			Ground
4	RB2	I	Ground	36	D2	O	Data bus
5	Vss			37	D3	O	
6	RA3	I		38	Vss			Ground
7	RB3	I	Encoder input	39	D4	O	Data bus
8	RA4	I		40	D5	O	
9	RB4	I		41	Vss			Ground
10	Vss		Ground	42	D6	O	Data bus
11	RA5	I		43	D7	O	
12	RB5	I		44	Vss			Ground
13	RA6	I	Encoder input	45	NC		Not used
14	RB6	I		46	NC		
15	Vss			47	RA9	I	
16	RA7	I	Encoder input	48	RB9	I	Encoder input
17	RB7	I		49	RA10	I	
18	RA8	I		50	RB10	I	
19	RB8	I	Address bus	51	RA11	I	Encoder input
20	A0	I		52	RB11	I	
21	A1	I		53	RA12	I	
22	A2	I	Ground	54	RB12	I	Power supply +5V
23	Vss			55	RA13	I	
24	RDN	I		56	RB13	I	
25	CSN	I	Read	57	RA14	I	Power supply +5V
26	VDD		Chip select	58	VDD		
27	ASN	I	Power supply +5V	59	RB14	I	
28	A3N	I	Address strobe	60	RA15	I	Encoder input
29	SEL	I	Address bus	61	RB15	I	
30	NC		Bus select	62	RA16	I	
31	NC		Not used	63	RB16	I	Encoder input
32	NC			64	Vss			Ground

• YM3436DK (XG948E00) DIR2 (Digital Format Interface Receiver)

DSP: IC064

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	DAUX	I	Auxiliary input for audio data	23	RSTN	I	System reset input
2	HDLT	O	Asynchronous buffer operation flag	24	Vdda		VCO section power (+5V)
3	DOU	O	Audio data output	25	CTLN	I	VCO control input N
4	VFL	O	Parity flag output	26	PCO	O	PLL phase comparison output
5	OPT	O	Fs x 1 Synchronous output signal for DAC	27	(NC)		
6	SYNC	O	Fs x 1 Synchronous output signal for DSP	28	CTLP	I	VCO control input P
7	MCC	O	Fs x 64 Bit clock output	29	Vssa		VCO section power (GND)
8	WC	O	Fs x 1 Word clock output	30	TSTN	I	Test terminal. Open for normal use
9	MCB	O	Fs x 128 Bit clock output	31	KM2	I	Clock mode switching input 2
10	MCA	O	Fs x 256 Bit clock output	32	KM0	I	Clock mode switching input 0
11	SKSY	I	Clock synchronization control input	33	FS1	O	Channel status sampling frequency display output 1
12	XI	I	Crystal oscillator connection or external clock input	34	FS0	O	Channel status sampling frequency display output 0
13	XO	O	Crystal oscillator connection	35	CSM	I	Channel status output method selection
14	P256	O	VCO oscillating clock connection	36	EXTW	I	External synchronous auxiliary input word clock
15	LOCK	O	PLL lock flag	37	DDIN	I	EIAJ (AES/EBU) data input
16	Vss		Logic section power (GND)	38	LR	O	PLL word clock output
17	TC	O	PLL time constant switching output	39	Vdd		Logic section power (+5 V)
18	DIM1	I	Data input mode selection	40	ERR	O	Data error flag output
19	DIM0	I	Data input mode selection	41	EMP	O	Channel status emphasis control code output
20	DOM1	I	Data output mode selection	42	CD0	O	3-wire type microcomputer interface data output
21	DOM0	I	Data output mode selection	43	CCK	I	3-wire type microcomputer interface clock input
22	KM1	I	Clock mode switching input 1	44	CLD	I	3-wire type microcomputer interface load input

● **YM6604C-S (XU240A00) ACIA (Asynchronous Communication Interface Adapter)**

DSP: IC703

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION	
1	RESETN	I	Reset	51	NC		Not used	
2	NC		Not used	52	IRQ3N	I	} Interrupt request	
3	CSN	I	Chip select	53	IRQ4N	I		
4	ASN	I	Address strobe	54	NC		Not used	
5	LDSN	I	Data strobe	55	IRQ5N	I	} Interrupt request	
6	A1P	I	Address bus	56	IRQ6N	I		
7	NC		Not used	57	IRQ7N	I		
8	A2P	I	} Address bus	58	TXD1P	O	Transmit data (1ch)	
9	A3P	I			59	RXD1P	I	Receive data (1ch)
10	NC		Not used	60	NC		Not used	
11	A4P	I	Address bus	61	RTS1N	O	Request to send (1ch)	
12	NC		} Not used	62	NC		Not used	
13	NC				63	CTS1N	I	Clear to send (1ch)
14	A5P	I	Address bus	64	NC		Not used	
15	Vss		Ground	65	DCD1N	I	Data carrier detect (1ch)	
16	NC		Not used	66	Vss		Ground	
17	CLKP	I	System clock	67	NC		Not used	
18	RW	I	Read / Write	68	TXD2P	O	Transmit data (2ch)	
19	NC		Not used	69	RXD2P	I	Receive data (2ch)	
20	DTACKN	O	Data acknowledge	70	NC		Not used	
21	Vss		Ground	71	RTS2N	O	Request to send (2ch)	
22	D0P	I/O	} Data bus	72	CTS2N	I	Clear to send (2ch)	
23	D1P	I/O			73	DCD2N	I	Data carrier detect (2ch)
24	D2P	I/O			74	NC		Not used
25	NC		} Not used	75	TXD3P	O	Transmit data (3ch)	
26	NC				76	NC		} Not used
27	D3P	I/O	Data bus	77	NC			
28	Vss		Ground	78	RXD3P	I	Receive data (3ch)	
29	D4P	I/O	} Data bus	79	RTS3N	O	Request to send (3ch)	
30	D5P	I/O			80	NC		Not used
31	D6P	I/O			81	CTS3N	I	Clear to send (3ch)
32	D7P	I/O			82	TXD4P	O	Transmit data (4ch)
33	Vss		Ground	83	NC		Not used	
34	FC0P	I	} Function code	84	RXD4P	I	Receive data (4ch)	
35	FC1P	I			85	RTS4N	O	Request to send (4ch)
36	NC		Not used	86	NC		Not used	
37	FC2P	I	Function code	87	CTS4N	I	Clear to send (4ch)	
38	NC		Not used	88	V _{DD}		Power supply +5V	
39	IACKON	O	Interrupt acknowledge	89	NC		Not used	
40	V _{DD}		Power supply +5V	90	TXD5P	O	Transmit data (5ch)	
41	NC		Not used	91	NC		Not used	
42	MODEP	I	CPU select	92	RXD5P	I	Receive data (5ch)	
43	NC		Not used	93	TXD6P	O	Transmit data (6ch)	
44	IPL0N	O	} Interrupt control	94	RXD6P	I	Receive data (6ch)	
45	IPL1N	O			95	Vss		Ground
46	IPL2N	O			96	FSP	I	Counter clock
47	IRQ1N	I	} Interrupt request	97	XCLK2P	I	} Transmission clock	
48	IRQ2N	I			98	XCLK1P		I
49	NC		} Not used	99	NC		} Not used	
50	NC				100	NC		

• **MSM82C51A-2GS-KR1 (XV513A00)**

USART (Universal Synchronous Asynchronous receiver Transmitter)

JK1: IC354

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	D2	I/O	Data Bus	17	TXRDY	O	Character data
2	D3	I/O	Data Bus	18	SYNDET/BD	I/O	Character data
3	RXD	I	Serial Data	19	/CTS	I	Input terminal for modem interface
4	NC			20	NC		
5	GND		Ground	21	TXEMPTY	O	Character data
6	D4	I/O	Data Bus	22	TXD	O	Character data
7	D5	I/O	Data Bus	23	CLK	I	Clock
8	D6	I/O	Data Bus	24	RESET	I	Reset
9	D7	I/O	Data Bus	25	/DSR	I	Input port for modem interface
10	/TXC	I	Clock	26	/RTS	O	Output port for modem interface
11	/WR	I	Write signal	27	/DTR	O	Output port for modem interface
12	/CS	I	Device select	28	/RXC	I	Clock
13	NC			29	NC		
14	C/D	I	Access select signal	30	VCC	I	Power supply
15	/RD	I	Read signal	31	D0	I/O	Data Bus
16	RXRDY	O	Character data	32	D1	I/O	Data Bus

• **ICS2008A (XV619A00) T.C. Reader/Generator**

JK1: IC304

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	INTR	O	Interrupt request	23	CTS	I	Clear to send
2	RESET	I	Master reset	24	TXD	O	UART transmit data
3	FRAME	I	Color frame A / B input	25	RTS	O	Ready to send
4	CLICK	I	LTC SYNC input	26	LRCLK	O	SMPTE LTC receive clock
5	LTCIN-	I	SMPTE LTC input -	27	VITCGATE	O	VITE cord is for video overlay
6	LTCIN+	I	SMPTE LTC input +	28	VITCOUT	O	SMPTE VITE output
7	LTCOUT	O	SMPTE LTC output	29	A0	I	Address bus
8	LFC	I	External RC circuit	30	A1	I	Address bus
9	XTAL2	O	14.318 MHz crystal oscillator	31	/SMPTECS	I	SMPTE port chip select
10	XTAL1	I	14.318 MHz crystal oscillator	32	/UARTSC	I	UART chip select
11	AVDD	-	Analog power supply	33	/IOR	I	Read enable
12	AVSS	-	Analog ground	34	VSS	-	Digital ground
13	COUT	O	C(Chroma) output	35	VDD	-	Digital power supply
14	YOUT	O	Y(Luma) output	36	/IOW	I	Write enable
15	C2	I	C(Chroma) input	37	D0	I/O	Data bus
16	Y2	I	Y(Luma) input	38	D1	I/O	
17	C1	I	C(Chroma) input	39	D2	I/O	
18	Y1	I	Y(Luma) input	40	D3	I/O	
19	STHRESH	I	SYNC threshold bypass input	41	D4	I/O	
20	CTHRESH	I	Clamp threshold bypass input	42	D5	I/O	
21	DTHRESH	I	Data threshold bypass input	43	D6	I/O	
22	RXD	I	UART receive data	44	D7	I/O	

• **CS8420 (XW559A00) SRC (Sample Rate Converter)**

JK1: IC003-005, 051-053

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	SDA/CDOUT	I/O	Serial control data I/O (I ² C) / data out (SPI)	15	TCBL	I/O	Transmit channel status block start
2	AD0/CS	I	Address bit 0 (I ² C) / Control port chip select (SPI)	16	OSCLK	I/O	Serial audio output port bit clock input or output
3	/EMPH	O	Pre-emphasis indicator output	17	OLRCK	I/O	Serial audio output port left/right clock input or output
4	RXP	I	Differential line receiver inputs	18	SDOUT	O	Serial audio output port data output
5	RXN	I		19	/INT	O	Interrupt output
6	VA+		Positive analog power supply (+5V)	20	U	I/O	User data
7	AGND		Analog ground	21	OMCK	I	Output section master clock input
8	FILT	I/O	PLL loop filter	22	DGND		Digital ground
9	/RST	I	Reset input	23	VD+		Positive digital power supply (+5V)
10	RMCK	O	Input section recovered master clock output	24	H/S	O	Hardware or software control mode select
11	RERR	O	Receiver error indicator	25	TXN	O	Differential line driver outputs
12	ILRCK	I/O	Serial audio input port left/right clock input or output	26	TXP	O	
13	ISCLK	I/O	Serial audio input port bit clock input or output	27	AD1/CDIN	I	Address bit 1 (I ² C) / Serial control data in (SPI)
14	SDIN	I	Serial audio input port data input	28	SCL/CCLK	I	Control port clock

● XCS40-3PQ240C (XZ334A00) FPGA (Field Programmable Gate Arrays)

DSP: IC056

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	GND		Ground	121	Vcc		Power supply +5V
2	CPUCLK	I/O	Primary global	122	/PROGRAM	I	Active low input
3	/CSIN2	I/O	Unrestricted user-programmable Input/Output pin	123	/CSATSC[3]	I/O	Unrestricted user-programmable Input/Output pin
4	/CSIN3	I/O		124	I/O/PGCK3	I/O	Primary global
5	/RD	I/O	Test data in (JTAG port)	125	/CSATSC[4]	I/O	Unrestricted user-programmable Input/Output pin
6	I/O/TDI	I/O		126	/CSATSC[5]	I/O	
7	I/O/TCK	I/O	Test clock (JTAG port)	127	/CSATSC[6]	I/O	Unrestricted user-programmable Input/Output pin
8	/WRH	I/O	Unrestricted user-programmable Input/Output pin	128	/CSATSC[7]	I/O	
9	/WRL	I/O		129	/CSATSC[8]	I/O	
10	/RES	I/O	130	/CSATSC[9]	I/O		
11	/JK1_WRL	I/O	131	/CSATSC[10]	I/O		
12	/JK1_RD	I/O	132	/CSATSC[11]	I/O		
13	SLOT6_16CH	I/O	133	/CSATSC[12]	I/O		
14	GND		Ground	134	/CSATSC[13]	I/O	
15	SLOT5_16CH	I/O	Unrestricted user-programmable Input/Output pin	135	GND		Ground
16	SLOT4_16CH	I/O		136	256_SLOT6	I/O	Unrestricted user-programmable Input/Output pin
17	I/O/TMS	I/O	Test mode select (JTAG port)	137	WC_SLOT6	I/O	
18	SLOT3_16CH	I/O	Unrestricted user-programmable Input/Output pin	138	256_SLOT3	I/O	Power supply +5V
19	Vcc		Power supply +5V	139	WC_SLOT3	I/O	
20	SLOT2_16CH	I/O	Unrestricted user-programmable Input/Output pin	140	Vcc		Power supply +5V
21	SLOT1_16CH	I/O		141	256_SLOT5	I/O	Unrestricted user-programmable Input/Output pin
22	GND		Ground	142	WC_SLOT5	I/O	
23	/CSPER	I/O	Unrestricted user-programmable Input/Output pin	143	GND		Ground
24	/AT1_EN	I/O		144	256_SLOT2	I/O	Unrestricted user-programmable Input/Output pin
25	/AT2_EN	I/O		145	WC_SLOT2	I/O	
26	I/O			146	256_SLOT4	I/O	
27	I/O		147	WC_SLOT4	I/O		
28	/CSDSP3	I/O	Ground	148	256_SLOT1	I/O	Power supply +5V
29	GND			149	WC_SLOT1	I/O	
30	Vcc		Power supply +5V	150	Vcc		Power supply +5V
31	/CSACIA1	I/O	Unrestricted user-programmable Input/Output pin	151	GND		Ground
32	/CSGPI_RW	I/O		152	/CSSLOT6	I/O	Unrestricted user-programmable Input/Output pin
33	I/O			153	EXTWC[7]	I/O	
34	ACLK1 (1MHz)	I/O		154	SLOT_48S	I/O	
35	ACLK2 (1.2288MHz)	I/O	155	SLOT_48K	I/O		
36	I/O		156	/CSSLOT3	I/O	Ground	
37	GND		157	EXTWC[4]	I/O		
38	I/O		158	GND		Ground	
39	/CSDSP2	I/O	Unrestricted user-programmable Input/Output pin	159	/CSSLOT5	I/O	Unrestricted user-programmable Input/Output pin
40	Vcc			160	EXTWC[6]	I/O	
41	/CSDIT_RW	I/O	Unrestricted user-programmable Input/Output pin	161	Vcc		Power supply +5V
42	/CSJK1	I/O		162	SLOT_12M	I/O	Unrestricted user-programmable Input/Output pin
43	/CSJK	I/O		163	/CSSLOT2	I/O	
44	I/O			164	EXTWC[3]	I/O	
45	GND		165	/CSSLOT4	I/O		
46	ANA256FS	I/O	Ground	166	GND		Ground
47	DOUBLE	I/O		167	EXTWC[5]	I/O	Unrestricted user-programmable Input/Output pin
48	K48K96	I/O	168	SLOT_6M	I/O		
49	/CSDSP1	I/O	Unrestricted user-programmable Input/Output pin	169	SLOT_3M	I/O	Power supply +5V
50	I/O			170	/CSSLOT1	I/O	
51	EXTWC[10]	I/O	Unrestricted user-programmable Input/Output pin	171	EXTWC[2]	I/O	Unrestricted user-programmable Input/Output pin
52	EXTWC[11]	I/O		172	/CSSLOT	I/O	
53	EXTWC[12]	I/O		173	I/O	I/O	
54	TRRERR[1]	I/O		174	DIR2X1	I/O	
55	TRRERR[2]	I/O		175	I/O	I/O	
56	TRRERR[3]	I/O		176	I/O	I/O	
57	I/O/SGCK2	I/O		177	I/O (DIN)	I/O		Serial configuration data input
58	NC		Not used	178	I/OSGCK4 (DOUT)	I/O	Secondary global / Serial configuration data output
59	GND		Ground	179	CCLK	I	Configuration clock
60	MODE	I	Master/Slave mode selection	180	Vcc		Power supply +5V
61	Vcc		Power supply +5V	181	O/TDO	O	Test data output
62	NC		Not used	182	GND		Ground
63	I/O/PGCK2	I/O	Primary global	183	CINPCPOUT	I/O	Unrestricted user-programmable Input/Output pin
64	I/O (HDC)	I/O	High during configuration	184	I/O/PGCK4	I/O	Primary global
65	NORMAL_WC	I/O	Unrestricted user-programmable Input/Output pin	185	DIRMCA	I/O	Unrestricted user-programmable Input/Output pin
66	I/O			186	DIRMCB	I/O	
67	I/O		Low during configuration	187	DIRWC	I/O	Unrestricted user-programmable Input/Output pin
68	I/O (/LDC)	I/O		188	DIRMCC	I/O	
69	/JK1WAIT	I/O	Unrestricted user-programmable Input/Output pin	189	DIRSYNC	I/O	Unrestricted user-programmable Input/Output pin
70	I/O			190	DIRWCSEL	I/O	
71	/MLOCKSEL	I/O		191	CIN256FS	I/O	
72	/LOCKRTN	I/O		192	CINPLOUT	I/O	
73	/LOCK	I/O	Unrestricted user-programmable Input/Output pin	193	CINWC	I/O	Unrestricted user-programmable Input/Output pin
74	/DIRLOCK	I/O		194	EXTWC[1]	I/O	
75	GND		Ground	195	NC		Not used
76	PLLOUT	I/O	Unrestricted user-programmable Input/Output pin	196	GND		Ground
77	EXTWCSEL	I/O		197	EXTWC[8]	I/O	Unrestricted user-programmable Input/Output pin
78	PCPOUT	I/O	198	EXTWC[9]	I/O	Unrestricted user-programmable Input/Output pin	
79	MWC	I/O	199	CIN48K96K	I/O		Power supply +5V
80	Vcc		Power supply +5V	200	CINPLINH	I/O	
81	MSYNC	I/O	Unrestricted user-programmable Input/Output pin	201	Vcc		Power supply +5V
82	M64FS	I/O		202	DT[0]	I/O	Unrestricted user-programmable Input/Output pin
83	GND		Ground	203	DT[1]	I/O	
84	M128FS	I/O	Unrestricted user-programmable Input/Output pin	204	GND		Ground
85	M256FS	I/O		205	DT[2]	I/O	Unrestricted user-programmable Input/Output pin
86	MUTEIN	I/O	206	DT[3]	I/O	Unrestricted user-programmable Input/Output pin	
87	MUTEOUT	I/O	207	DT[4]	I/O		Unrestricted user-programmable Input/Output pin
88	/CSDSP6[1]	I/O	208	DT[5]	I/O	Unrestricted user-programmable Input/Output pin	
89	I/O (/INIT)	I/O	209	DT[6]	I/O		Unrestricted user-programmable Input/Output pin
90	Vcc		Bidirectional signal	210	DT[7]	I/O		Ground
91	GND		Power supply +5V	211	GND		Ground
92	/CSDSP6[2]	I/O	Unrestricted user-programmable Input/Output pin	212	Vcc		Power supply +5V
93	/CSDSP6[3]	I/O		213	DT[8]	I/O	Unrestricted user-programmable Input/Output pin
94	/CSDSP6[4]	I/O	214	DT[9]	I/O	Unrestricted user-programmable Input/Output pin	
95	/CSDSP6[5]	I/O	215	DT[10]	I/O		Unrestricted user-programmable Input/Output pin
96	/CSDSP6[6]	I/O	216	DT[11]	I/O	Unrestricted user-programmable Input/Output pin	
97	/CSDSP6[7]	I/O	217	DT[12]	I/O		Unrestricted user-programmable Input/Output pin
98	GND		Ground	218	DT[13]	I/O	
99	/CSDSP6[8]	I/O	Unrestricted user-programmable Input/Output pin	219	GND		Ground
100	/CSDSP7[1]	I/O		220	DT[14]	I/O	Unrestricted user-programmable Input/Output pin
101	Vcc		Power supply +5V	221	DT[15]	I/O	
102	/CSDSP7[2]	I/O	Unrestricted user-programmable Input/Output pin	222	Vcc		Power supply +5V
103	/CSDSP7[3]	I/O		223	AD[16]	I/O	Unrestricted user-programmable Input/Output pin
104	/CSDSP7[4]	I/O	224	/JK1_WRH	I/O	Unrestricted user-programmable Input/Output pin	
105	/CSDSP7[5]	I/O	Ground	225	AD[1]		I/O	Unrestricted user-programmable Input/Output pin
106	GND			226	AD[2]	I/O	
107	/CSDSP7[6]	I/O	Ground	227	GND		Ground
108	/CSDSP7[7]	I/O		228	AD[3]	I/O	Unrestricted user-programmable Input/Output pin
109	/CSDSP7[8]	I/O	229	AD[4]	I/O	Unrestricted user-programmable Input/Output pin	
110	/CSDSP7[9]	I/O	230	AD[5]	I/O		Unrestricted user-programmable Input/Output pin
111	/CSDSP7[10]	I/O	231	AD[6]	I/O	Unrestricted user-programmable Input/Output pin	
112	/CSDSP7[11]	I/O	232	AD[7]	I/O		Unrestricted user-programmable Input/Output pin
113	/CSDSP7[12]	I/O	233	AD[8]	I/O	Unrestricted user-programmable Input/Output pin	
114	/CSDSP7[13]	I/O	234	AD[11]	I/O		Unrestricted user-programmable Input/Output pin
115	/CSDSP7[14]	I/O	235	AD[12]	I/O	Unrestricted user-programmable Input/Output pin	
116	/CSATSC[1]	I/O	Unrestricted user-programmable Input/Output pin	236	AD[13]		I/O	Unrestricted user-programmable Input/Output pin
117	/CSATSC[2]	I/O		237	AD[14]	I/O	
118	I/O/SGCK3	I/O	Secondary global	238	AD[15]	I/O	Secondary global
119	GND			Ground	239	I/O/SGCK1		I/O
120	DONE	O	Bidirectional signal	240	Vcc		Power supply +5V

● S1D13305F00B100 (XQ595A00) LCDC (LCD Controller)

CPU: IC129

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION	
1	VA5	O	} VRAM address bus	31	XD2	O	} Data bus output for 4 bit dot	
2	VA4	O		32	XD1	O		
3	VA3	O		33	XD0	O		
4	VA2	O		34	XECL	O		S driver enable, chain clock
5	VA1	O		35	XSCL	O			Data bus shift clock
6	VA0	O		36	Vss	-		Ground
7	/VWR	O	VRAM read/write	37	LP	O	X driver latch pulse	
8	/VCE	O	Memory control	38	WF	O	Frame signal for X/Y driver	
9	/VRD	-	Not used	39	YDIS	O	Power down signal for displaying off mode	
10	/RES	I	Initial clear	40	YD	O	Scan start signal	
11	NC	-	Not used	41	YSCL	O	Scan shift clock	
12	NC	-	Not used	42	VD7	I/O	} VRAM data bus	
13	/RD	I	Read strobe	43	VD6	I/O		
14	/WR	I	Write strobe	44	VD5	I/O		
15	SEL2	I	Bus select	45	VD4	I/O		
16	SEL1	I	Bus select	46	VD3	I/O		
17	OSC1	I	Clock	47	VD2	I/O		
18	OSC2	O	Clock	48	VD1	I/O		
19	/CS	I	Chip select	49	VD0	I/O	} VRAM address bus	
20	A0	I	Data mode select	50	VA15	O		
21	Vdd	-	Power supply	51	VA14	O		
22	D0	I/O	} Data bus	52	VA13	O		
23	D1	I/O		53	VA12	O		
24	D2	I/O		54	VA11	O		
25	D3	I/O		55	VA10	O		
26	D4	I/O		56	VA9	O		
27	D5	I/O		57	VA8	O		
28	D6	I/O		58	VA7	O		
29	D7	I/O	59	VA6	O	} Not used		
30	XD3	O	Data bus output for 4 bit dot	60	NC		-	

● AK4393-VF-E2 (XW029A00) DAC (Digital to Analog Converter)
DA1: IC903-906
DA2: IC903-906

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	DVSS	-	Digital ground	15	BVSS	-	Substrate ground
2	DVDD	-	Digital power supply	16	VREFL	I	Low level voltage reference
3	MCLK	I	Master clock	17	VREFH	I	High level voltage reference
4	/PD	I	Power down mode	18	AVDD	-	Analog power supply +5 V
5	BICK	I	Audio serial data clock	19	AVSS	-	Analog ground
6	SDATA	I	Audio serial data input	20	AOUTR-	O	Rch negative analog output
7	LRCK	I	L/R clock	21	AOUTR+	O	Rch positive analog output
8	SMUTE/CS	I	Soft mute	22	AOUTL-	O	Lch negative analog output
9	DFS	I	Double speed sampling mode	23	AOUTL+	O	Lch positive analog output
10	DEMO/CCLK	I	} De-emphasis enable	24	VCOM	O	Common voltage output
11	DEM1/CDTI	I		25	P/S	I	Parallel/serial select
12	DIF0	I	} Digital input format	26	CKS0	I	} Master clock select
13	DIF1	I		27	CKS1	I	
14	DIF2	I		28	CKS2	I	

● AK5393-VS-E2 (XZ298A00) ADC (Analog to Digital Converter)
AD: IC103, 203, 303, 403, 503, 603
DA2: IC951-953

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	VREFL	O	Lch voltage reference output	15	SDATA	O	Serial data output
2	GNDL	O	Lch ground	16	FSYNC	I/O	Frame synchronization clock
3	VCOML	O	Lch common voltage	17	MCLK	I	Master clock input
4	AINL+	I	Lch positive analog input	18	DFS	I	Double speed sampling mode select
5	AINL-	I	Lch negative analog input	19	HPFE	I	HPF enable
6	ZCAL	I	Zero calibration	20	TEST	I	Test
7	VD	I	Digital power supply +3.3V	21	BGND		Substrate ground
8	DGND		Digital ground	22	AGND		Analog ground
9	CAL	O	Calibration status	23	VA		Analog power supply +5V
10	/RST	I	Reset	24	AINR-	I	Rch negative analog input
11	SMODE2	I	} Serial interface mode select	25	AINR+	I	Rch positive analog input
12	SMODE1	I		26	VCOMR	O	Rch common voltage
13	LRCK	I/O	L/R channel select clock	27	GNDR		Rch ground
14	SCLK	I/O	Serial data clock	28	VREFR	O	Rch voltage reference output

IC BLOCK DIAGRAM

● **DM2000**

● **TC74VHC00F (XT229A00)**

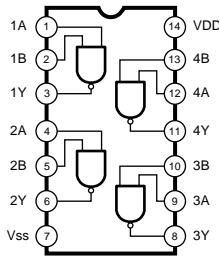
CPU: IC133
DSP: IC058 ,704

● **MM74HC00SJX (XW105A00)**

FD1: IC138
FD2: IC127

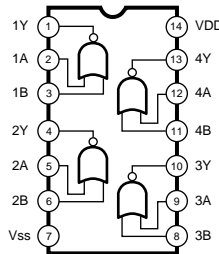
● **HD74LV00AFPEL (IS000000)**

SUB: IC113
Quad 2 Input NAND



● **TC74VHC02F (XT230A00)**

JK1: IC353
Quad 2 Input NOR



● **TC74VHC04F (EL) (XM332A00)**

CPU: IC132
DSP: IC702
JK1: IC409, 410
DS: IC005

● **HD74LV04AFPEL (IS000400)**

SUB: IC137

● **HD74LVU04AFPEL (XY102A00)**

SUB: IC117

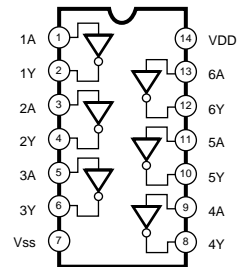
● **SN74HCU04NSR (XW842A00)**

JK1: IC001, 352

● **HD74LS06FPEL (XH610A00)**

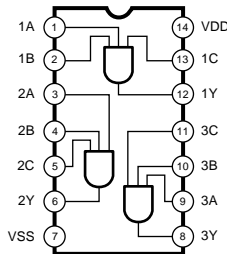
FD1: IC130-132
FD2: IC120, 121

Hex Inverter



● **TC74VHC11F (EL) (XT812A00)**

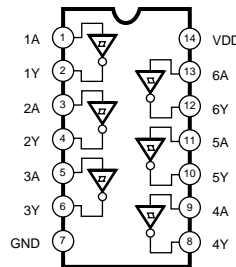
DSP: IC429-432
Triple 3 Input AND



● **TC74VHC14F-EL (XW876A00)**

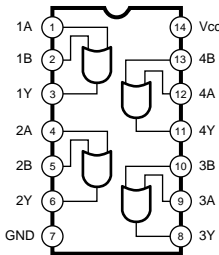
DSP: IC057, 073
JK1: IC459
JK2: IC701

Hex Inverter



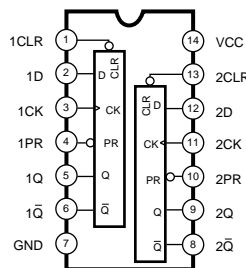
● **TC74VHC32F (EL) (XY537A00)**

CPU: IC136, 141
DSP: IC955
DS: IC001, 006
Quad 2 Input OR



● **TC74VHC74F-EL (XW875A00)**

DSP: IC128
JK1: IC055
Dual D-Type Flip-Flop



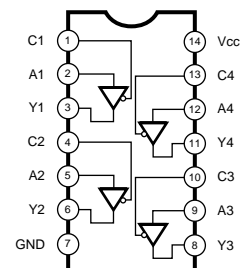
INPUTS				OUTPUTS	
PR	CLR	CLK	D	Q	Q̄
L	H	X	X	H	L
H	L	X	X	L	H
L	L	X	X	H	H
H	H	f	H	H	L
H	H	f	L	L	H
H	H	L	X	Q _o	Q _o

● **TC74VHC125F (XW313A00)**

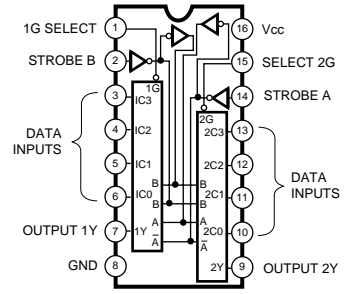
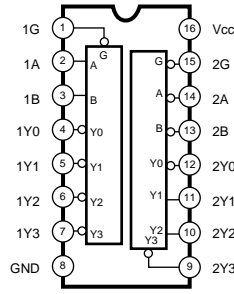
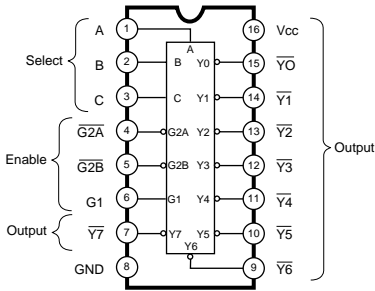
DSP: IC705
JK1: IC351

● **HD74LV125AFPEL (IS012500)**

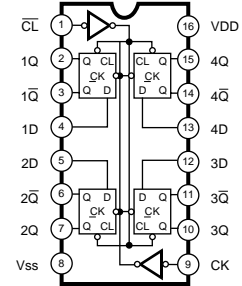
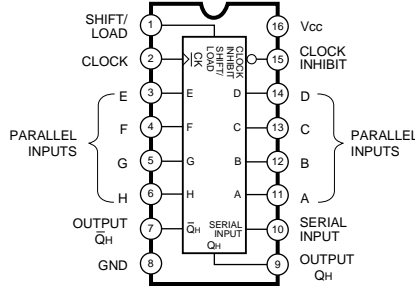
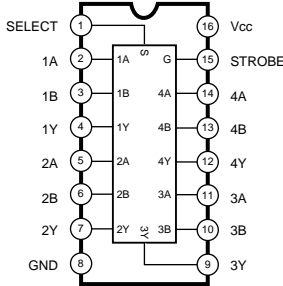
SUB: IC112
Quad 3-State Bus Buffer



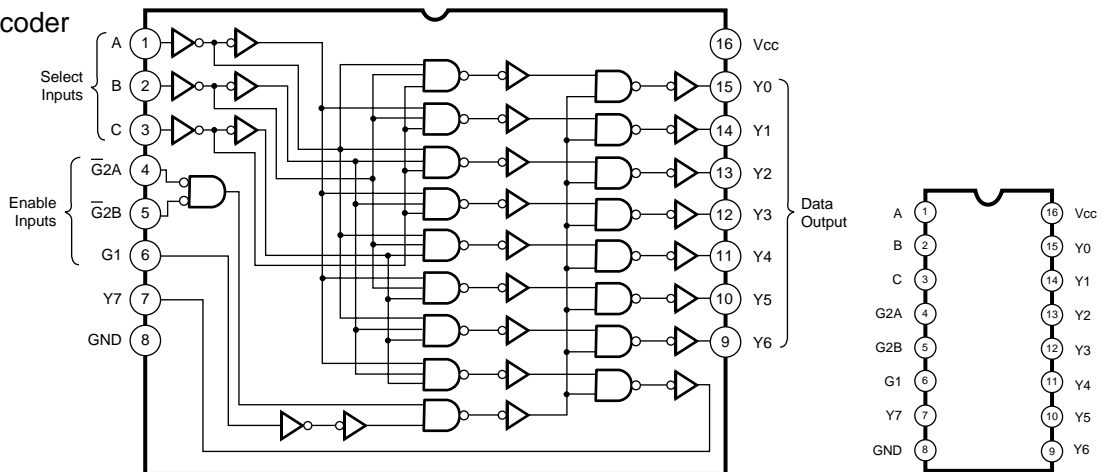
- **SN74LV138ANSR (IS013810)**
SUB: IC118
- **TC74HC138AFEL (XW762A00)**
SUB: IC125, 129
- **TC74VHC138F (XT015A00)**
JK1: IC402
JK2: IC905
3 to 8 Demultiplexer
- **TC74VHC139F (EL) (XW324A00)**
CPU: IC125
JK1: IC401
Dual 2 to 4 Demultiplexer
- **TC74VHC153F (XV794A00)**
JK1: IC054, 056, 057
Dual 4 to 1 Data Selectors



- **TC74VHC157F (EL) (XT475A00)**
DSP: IC609-614, 656-661
Quad 2 to 1 Multiplexer
- **HD74LV165AFPEL (IS016500)**
PN1: IC105-107
PN2: IC303, 304
PN3: IC507-509
8-Bit Shift Register
- **HD74LV175AFPEL (IS017500)**
JK2: IC802
Quad D-Type Flip-Flop



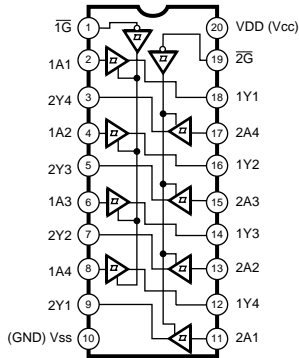
- **TC74HC238AF (XT163A00)**
PN1: IC102
PN2: IC309, 310
PN3: IC502
3 to 8 Line Decoder



● **TC74VHC244F (XT800A00)**

CPU: IC118
 DSP: IC904, 905
 JK1: IC455, 458
 JK2: IC903, 904
 DS: IC003

Octal 3-State Bus Buffer



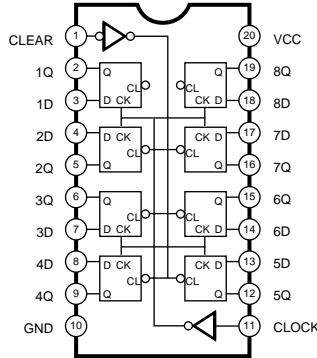
● **MM74HC273SJX (XY198A00)**

FD1: IC104-109
 FD2: IC104-107

● **TC74VHC273F (EL) (XY254A00)**

JK1: IC405-408
 JK2: IC801, 913
 DS: IC004

Octal D-Type Flip-Flop



● **HD74LV245AFPEL (IS024500)**

SUB: IC102, 106

● **TC74HC245AF (XS720A00)**

AD: IC001, 002
 DA1: IC901, 902
 DA2: IC901, 902
 FD1: IC101-103
 FD2: IC101-103
 PN1: IC101
 PN2: IC301, 302
 PN3: IC501
 SUB: IC114, 124, 126, 128, 131-134, 138

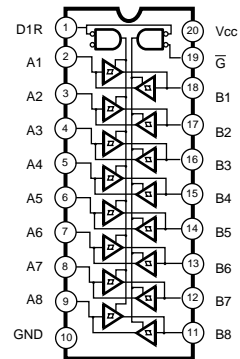
● **TC74VHC245F (XT487A00)**

CPU: IC115-117, 119-121, 126, 134, 135
 DSP: IC005-009, 013-020, 052-054, 067-069, 127, 425-428, 606-608, 615-620, 802, 805, 852, 901
 JK1: IC403, 451-454, 456, 457
 JK2: IC803, 901, 902, 906-912
 DS: IC002

● **TC74VHCT245AF (XV242A00)**

CPU: IC112, 131
 DSP: IC002-004, 023-027, 055, 801, 804, 851, 902, 906, 907, 953

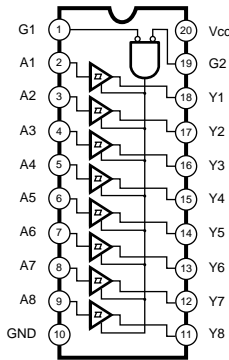
Octal 3-State Bus Transceiver



● **74VHC541SJX (XY961A00)**

DSP: IC001, 070-072, 126, 803, 806, 853-855, 903, 908, 909, 951, 952

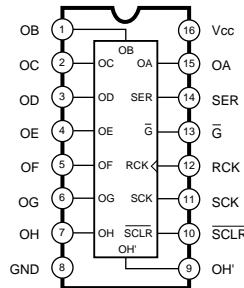
Octal 3-State Buffer



● **HD74LV595AFPEL (IS059500)**

PN1: IC103, 104
 PN2: IC305-308
 PN3: IC503-506

8-Bit Shift Register with Output Latches

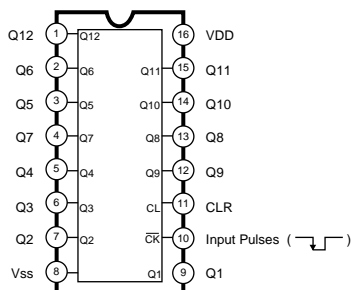


● **SN74LV4052ANSR (IS405210)**

SUB: IC130

● **SN74LV4040ANSR (IS404010)**

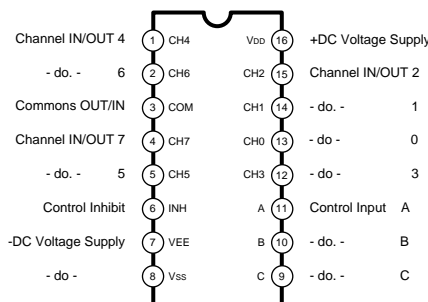
DSP: IC701
 12-Stage Binary Ripple Counter



● **HD74LV4051AFPEL (IS405100)**

FD1: IC139, 140
 FD2: IC128, 129

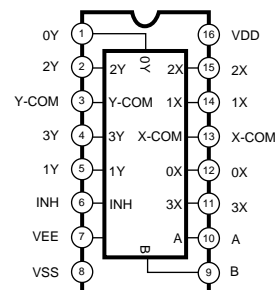
Single 8-channel Multiplexer/Demultiplexer



● **TC74HC4052AF (XS790A00)**

FD1: IC110, 111
 FD2: IC108

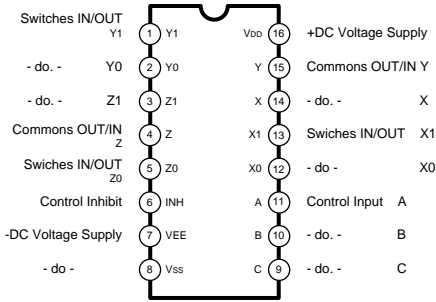
Differential 4-channel Multiplexer/Demultiplexer



● **HD74LV4053AFPEL (IS405300)**

DSP: IC060, 062
JK2: IC752, 753

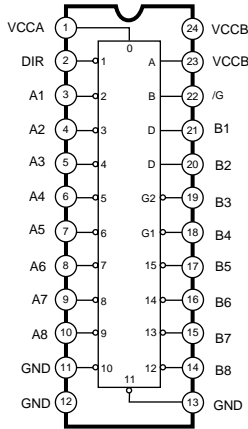
Triple 2-Channel
Multiplexer/Demultiplexer



● **TC74LVX4245FS (XU229A00)**

CPU: IC127
DSP: IC010, 011, 021, 022, 028-031

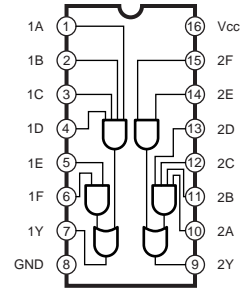
Dual Supply Octal Bus Transceiver



● **SN75121NSR (XU816A00)**

JK1: IC151

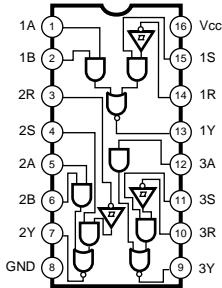
Dual Line Driver



● **SN75124NSR (XV930A00)**

JK1: IC101

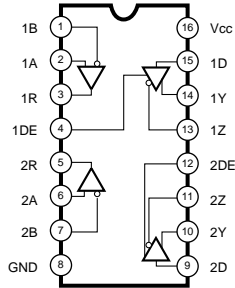
Triple Line Receiver



● **SN75C1168NSR (XU073A00)**

JK2: IC751, 851

Line Driver/Receiver

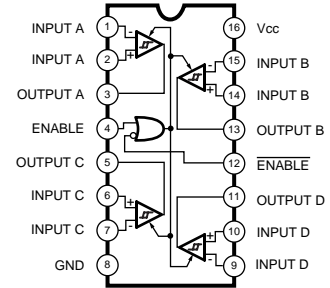


● **DS26C32ATMX (XU815A00)**

JK1: IC252

JK2: IC502-505, 605

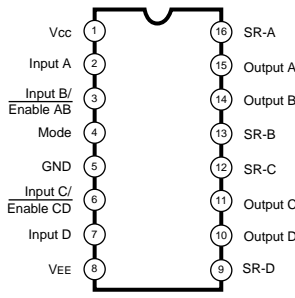
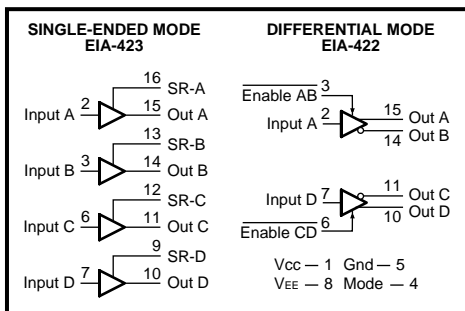
Quad Differential Line Receiver



● **MC26LS30DR2 (XL334A00)**

JK1: IC251

Line Driver

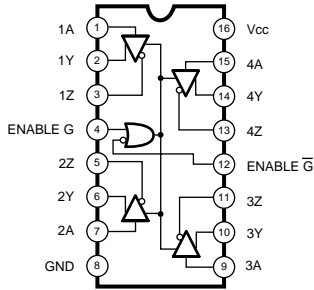


Operation	Vcc	VEE	Inputs				Outputs					
			Mode	A	B	C	D	A	B	C	D	
Differential (EIA-422-A)	+5.0	GND	0	0	0	0	0	0	1	1	0	
			0	1	0	0	1	1	0	0	0	1
			0	X	1	0	1	Z	Z	0	1	Z
			0	1	0	0	0	1	0	1	0	1
			0	0	0	0	1	0	1	0	1	1
Single-Ended (EIA-423-A)	+5.0	-5.0	1	0	0	0	0	0	0	0	0	
			1	1	0	0	0	1	0	0	0	
			1	0	1	0	0	0	1	0	0	
			1	0	0	1	0	0	0	1	0	
X	0	X	X	X	X	X	X	Z	Z	Z		

X = Don't Care
Z = High Impedance (Off)

● **AM26LS31CNSR** (XU996A00)

JK2: IC501, 601-604
Quad Line Driver

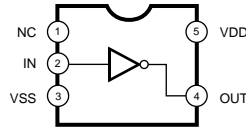


INPUT	ENABLES		OUTPUTS	
	A	G	Y	Z
H	H	X	H	L
L	H	X	L	H
H	X	L	H	L
L	X	L	L	H
X	L	H	Z	Z

H= high level
L= low level
X= irrelevant
Z= high impedance (off)

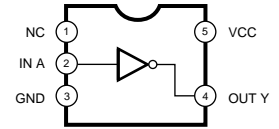
● **TC7S04F** (XM182A00)

AD: IC003
DA1: IC900
DA2: IC911
Inverter Gate



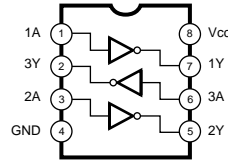
● **TC7SH04FU** (XS775A00)

CPU: IC122
DSP: IC012, 066
Inverter Gate



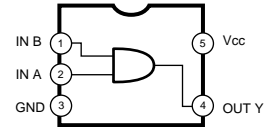
● **TC7W04FU** (XP004A00)

PN3: IC510
Triple Inverter



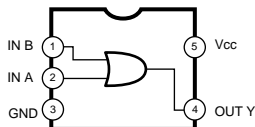
● **TC7SH08FU** (XR680A00)

CPU: IC123, 137
2 Input AND Gate



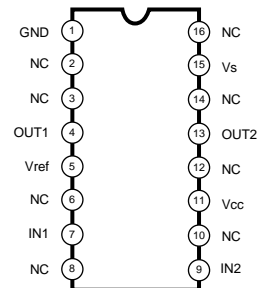
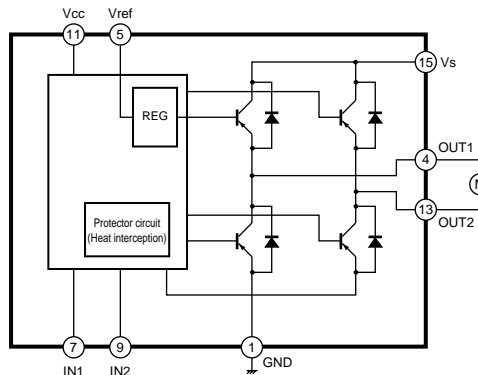
● **TC7SH32FU** (TE85L) (XW633A00)

DSP: IC051
Input OR Gate



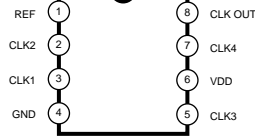
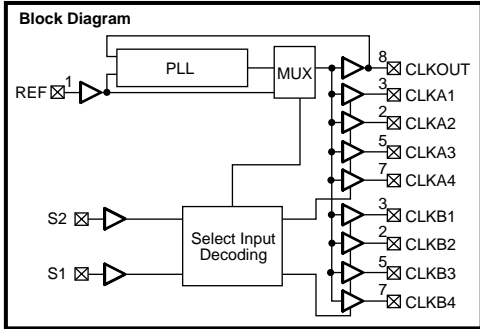
● **TA7291F** (XW618A00)

FD1: IC114-129
FD2: IC111-119
Motor Driver



● **CY2305 (XY937A00)**

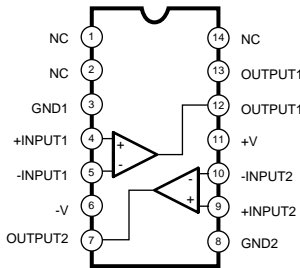
CPU: IC114
Clock Buffer



Pin No.	Signal	Function
1	REF	Input reference frequency, 5V-tolerant input
2	CLK2	Buffered clock output
3	CLK1	Buffered clock output
4	GND	Ground
5	CLK3	Buffered clock output
6	VDD	3.3V supply
7	CLK4	Buffered clock output
8	CLKOUT	Buffered clock output, internal feedback on this pin

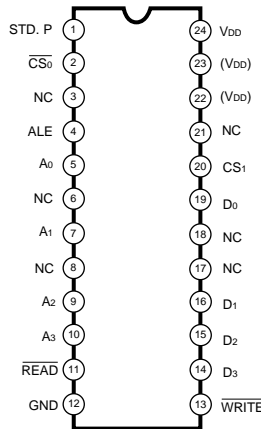
● **UPC319G2 (IG156700)**

JK: IC303
Voltage Comparator



● **RTC-62423 (X0333A00)**

CPU: IC128
Real Time Clock



● **NJM2068V (TE1) (XT618A00)**

FD1: IC133-136
FD2: IC122-125

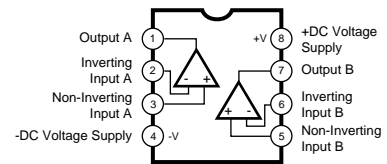
● **NJM4560M (T1) (XA862B00)**

JK1: IC302

● **μPC4570G2 (XF291A00)**

AD: IC101, 102, 201, 202, 301, 302, 401, 402, 501, 502, 601, 602
DA1: IC101, 201, 301, 401, 501, 601, 701, 801
DA2: IC101, 102, 151, 201, 251, 301, 351, 401, 451, 501, 551, 601, 701, 801

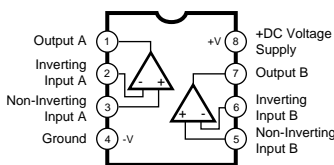
Dual Operational Amplifier



● **NJM2904V (TE1) (XR532A00)**

CPU: IC139
FD1: IC112, 113, 137
FD2: IC109, 110, 126
SUB: IC136

Dual Operational Amplifier



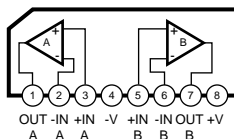
● **NJM2068L-D (XM356A00)**

2TRI: IC101, 102 PHN: IC202
ANI: IC100, 102, 103
SML: IC302 STD: IC302

● **NJM4556AL (XP844A00)**

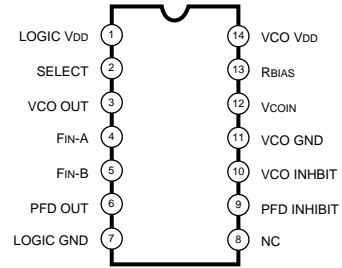
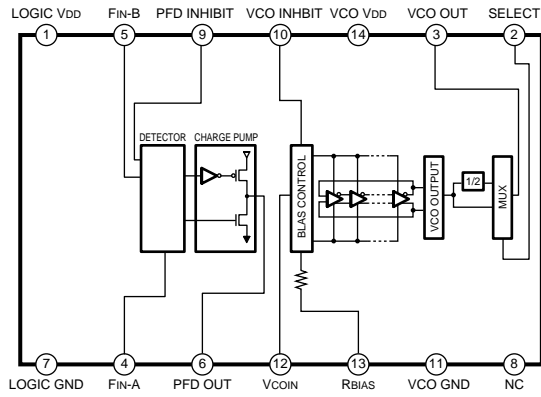
PHN: IC201 ANI: IC101
DA1: IC102, 202, 302, 402, 502, 602, 702, 802
LRG: IC101, 201 SML: IC301, 401
ST: IC101, 201 STD: IC301, 401

Dual Operational Amplifier



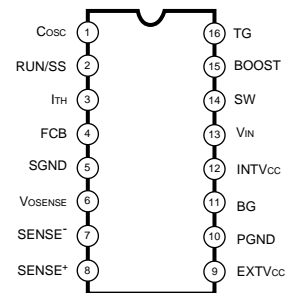
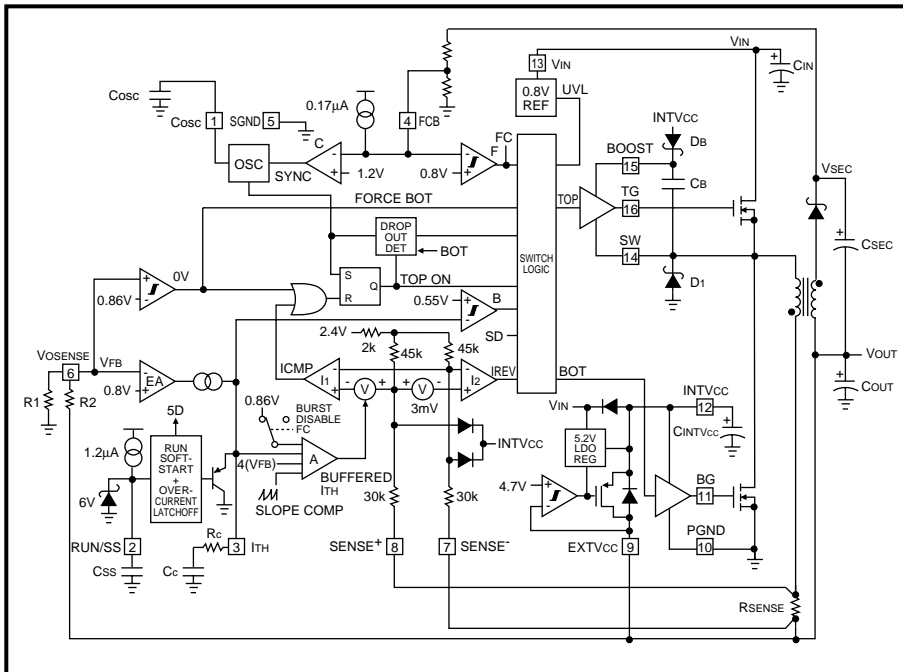
● **TLC2932IPWR (XV064A00)**

DSP: IC061, 063
PLL



● **LTC1735CS (X2005A00)**

BRG: IC003
DSP: IC961, 962
DC-DC Converter

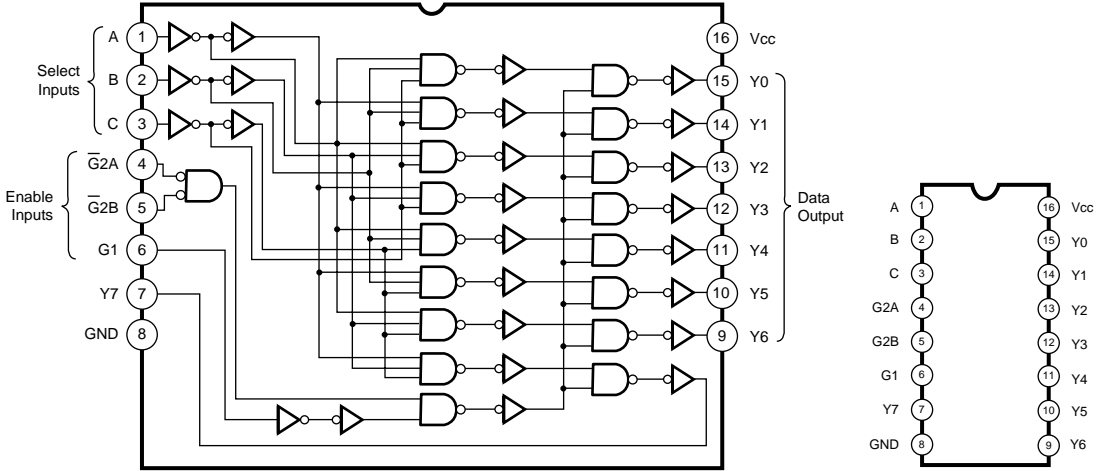


● **MB2000**

● **TC74HC238AF (XT163A00)**

PN2: IC214

3 to 8 Line Decoder



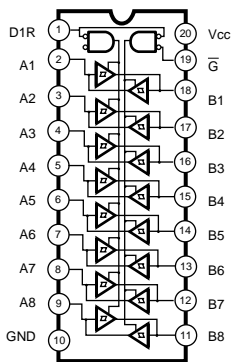
● **SN74HC245NSR (XD838A00)**

PN2: IC213

● **TC74HC245AF (XS720A00)**

PN1: IC101

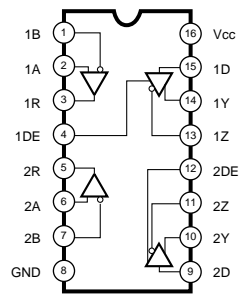
Octal 3-State Bus Transceiver



● **SN75C1168N (XU463A00)**

DC: IC303

Line Driver/Receiver

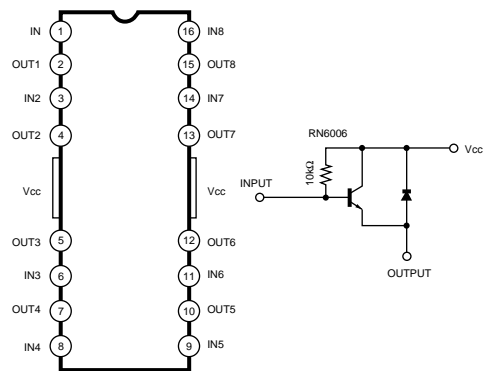


● **TD62M8600F (XV014A00)**

PN1: IC102, 106, 110

PN2: IC201, 205

Source Driver

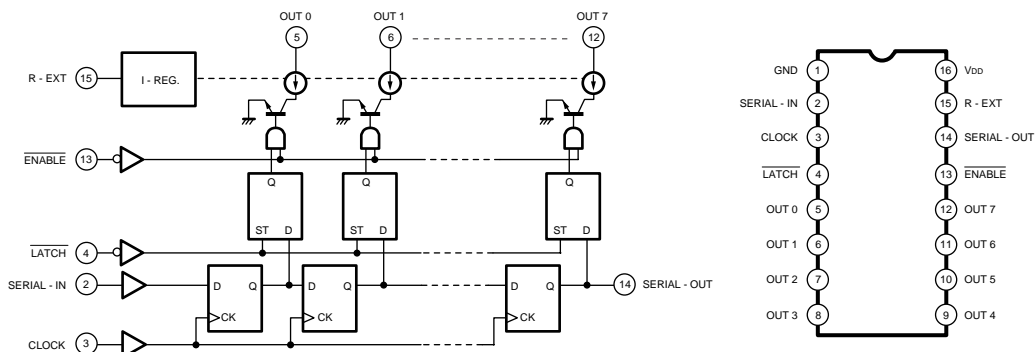


● **TB62705CF (EL) (XV013A00)**

PN1: IC103-105, 107-109

PN2: IC202-204, 206-208

LED Driver



■ CIRCUIT BOARDS

● DM2000

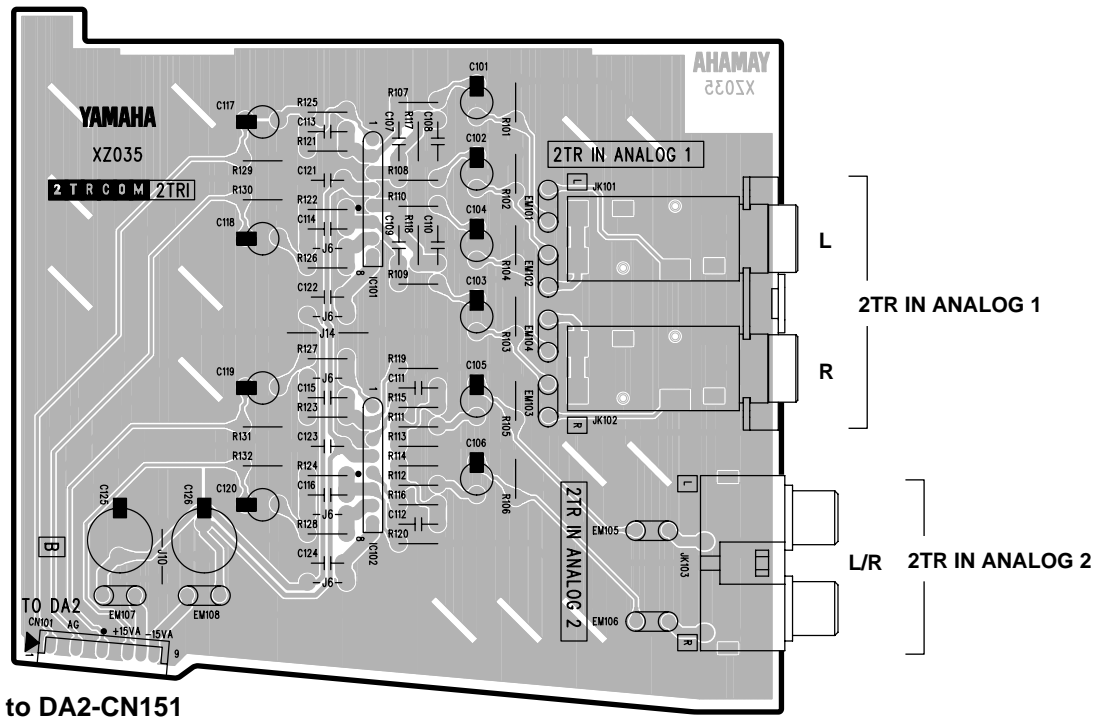
2TRCOM (2TRI) Circuit Board (XZ035B0)	78
2TRCOM (PHN) Circuit Board (XZ035B0)	79
AD Circuit Board (XZ020B0)	80/82
ANI Circuit Board (XZ032B0)	84
BRG Circuit Board (XZ031C0)	86/88
CPU Circuit Board (X0383B0)	90/91
CRCOM (LRG) Circuit Board (XZ033A0)	92
CRCOM (SML) Circuit Board (XZ033A0)	93
DA1 Circuit Board (XZ021B0)	94/95
DA2 Circuit Board (XZ022B0)	96/97
DSP Circuit Board (XZ018B0)	98/100
FD1 Circuit Board (XZ029B0)	102/104
FD2 Circuit Board (XZ030B0)	106/107
JK1 Circuit Board (XZ024B0)	108/110
JK2 Circuit Board (XZ025B0)	112
LCDCOM (CNT) Circuit Board (X2160B0)	85
LCDCOM (INV) Circuit Board (X2160B0)	85
OPT Circuit Board (XZ023B0)	114
PN1 Circuit Board (XZ026B0)	116/118
PN2 (1/2) Circuit Board (XZ027B0)	120/122
PN2 (2/2) Circuit Board (XZ027B0)	121/122
PN3 Circuit Board (XZ028B0)	124/126
PN4COM (PN4 (1/2)) Circuit Board (XZ219B0)	128/129
PN4COM (PN4 (2/2)) Circuit Board (XZ219B0)	128/129
PN4COM (DS) Circuit Board (XZ219B0)	128/129
STCOM (ST) Circuit Board (XZ034A0)	130
STCOM (STD) Circuit Board (XZ034A0)	131
SUB Circuit Board (XZ019B0)	132/134
SW Circuit Board (X2215B0)	136

● MB2000

DC Circuit Board (XZ038B0)	137
PNCOM (PN1) Circuit Board (XZ036B0)	138
PNCOM (PN2) Circuit Board (XZ036B0)	140

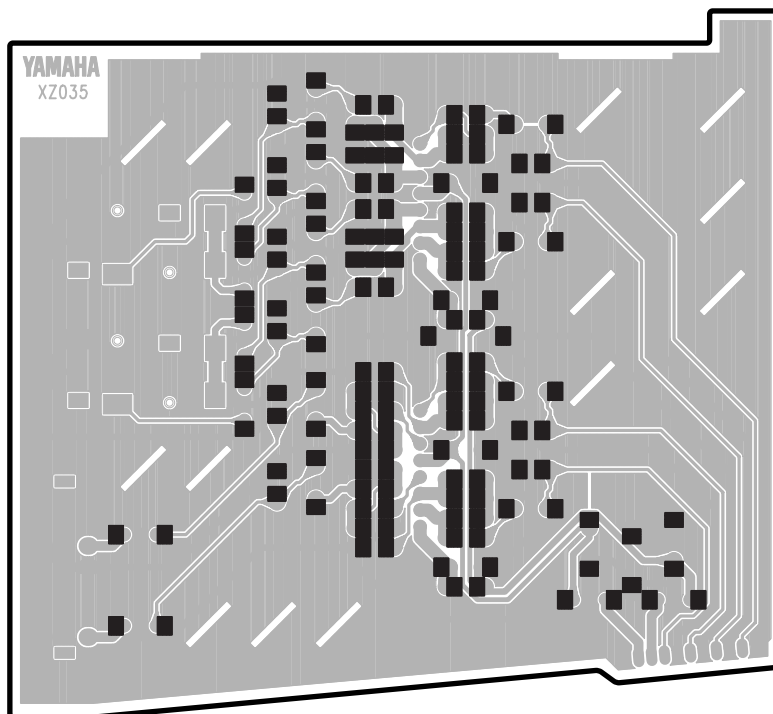
Note: See parts list for details of circuit board component parts.

• 2TRCOM (2TRI) Circuit Board



to DA2-CN151

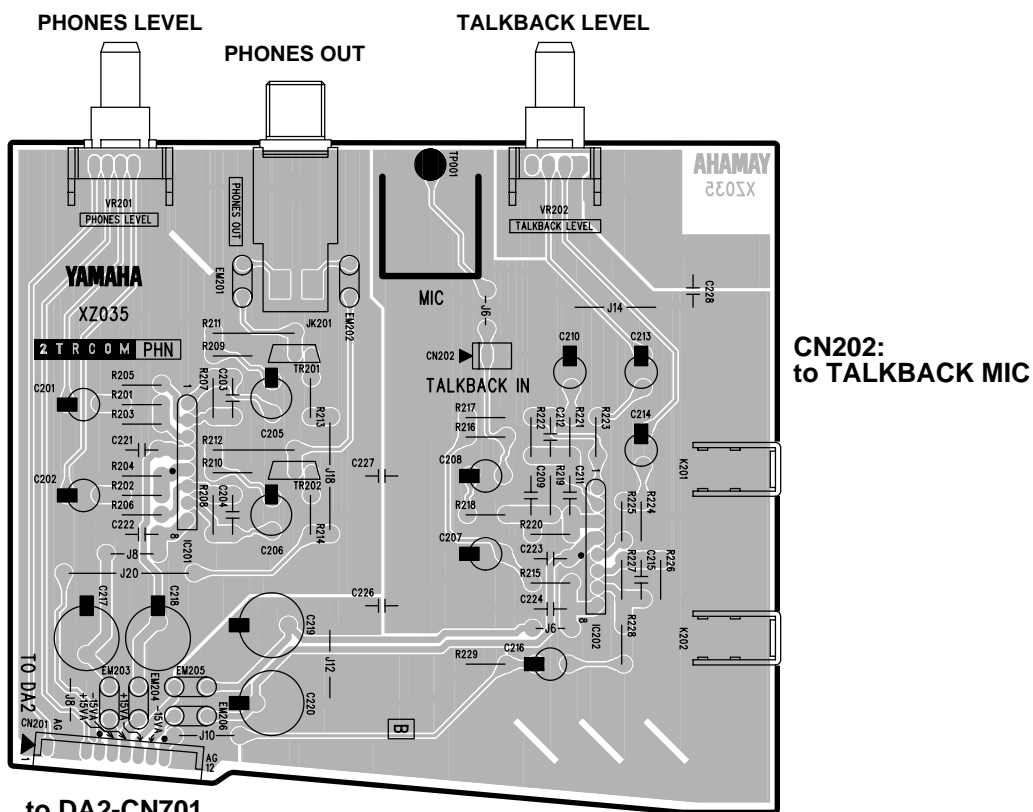
Component side



Pattern side

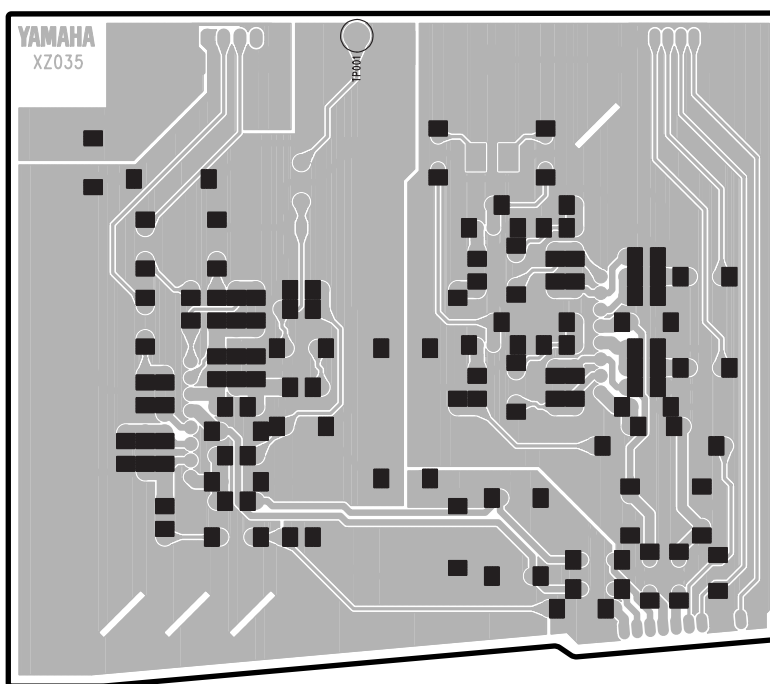
3NA-V628810-1

• 2TRCOM (PHN) Circuit Board



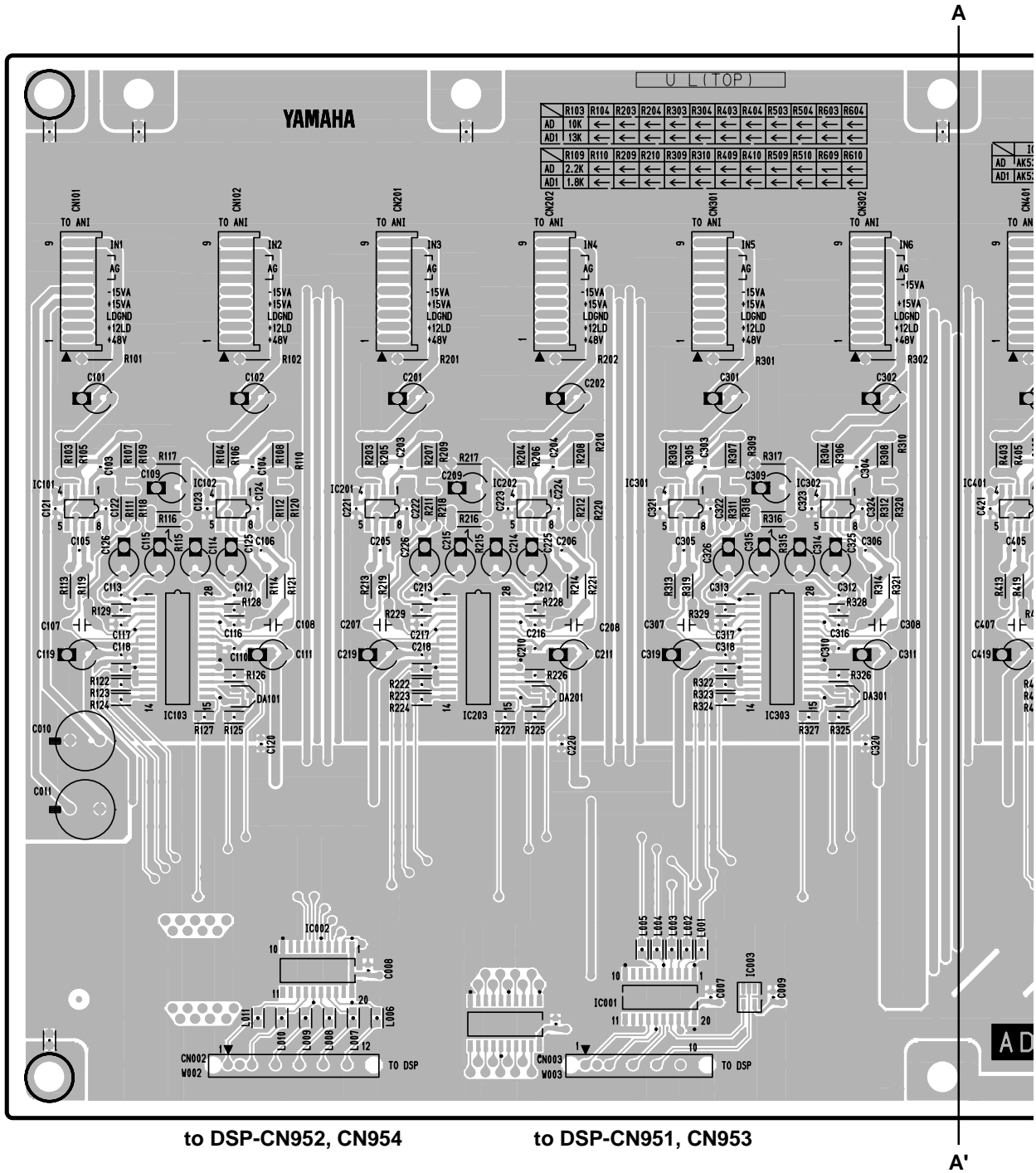
to DA2-CN701

Component side



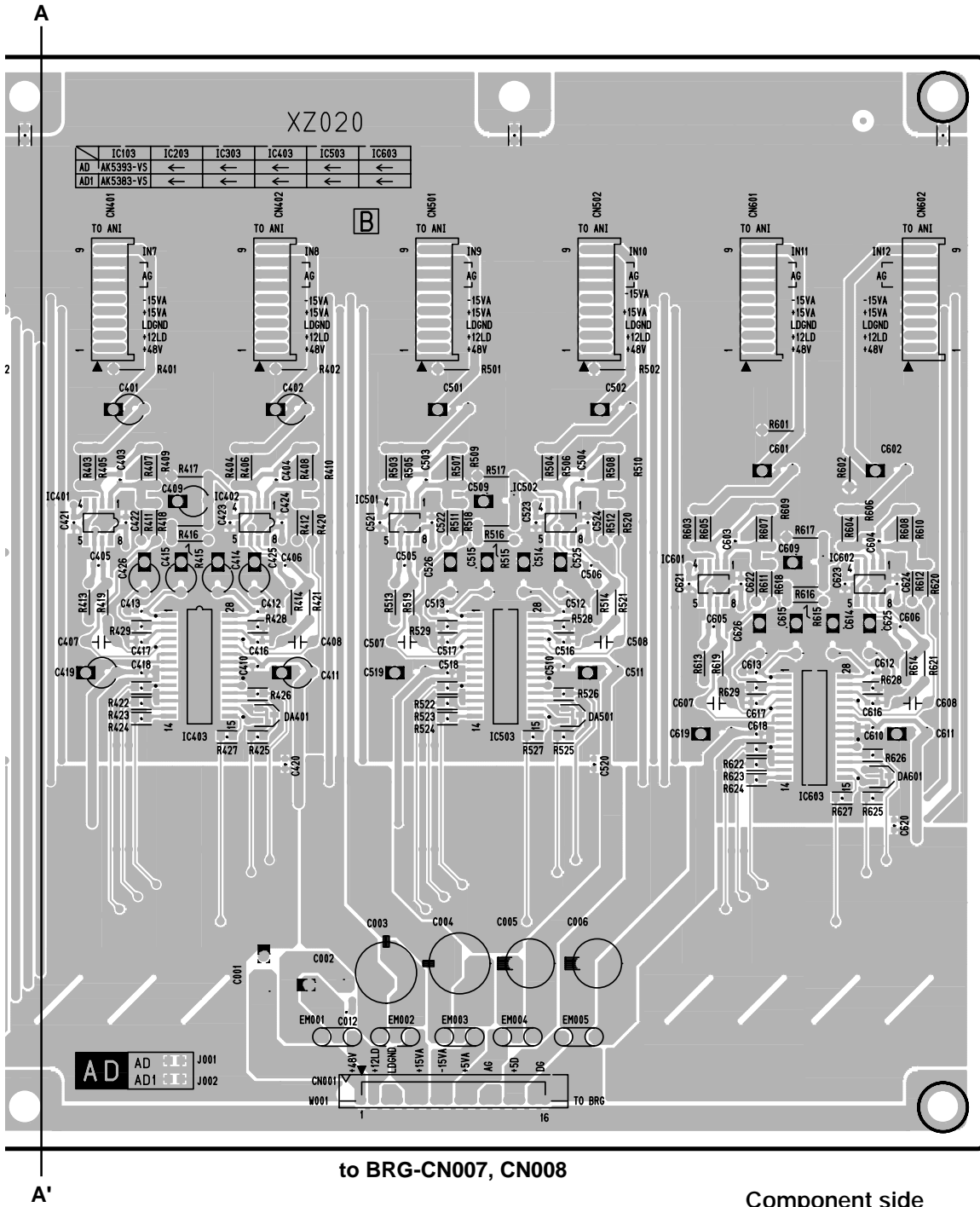
Pattern side

• AD Circuit Board



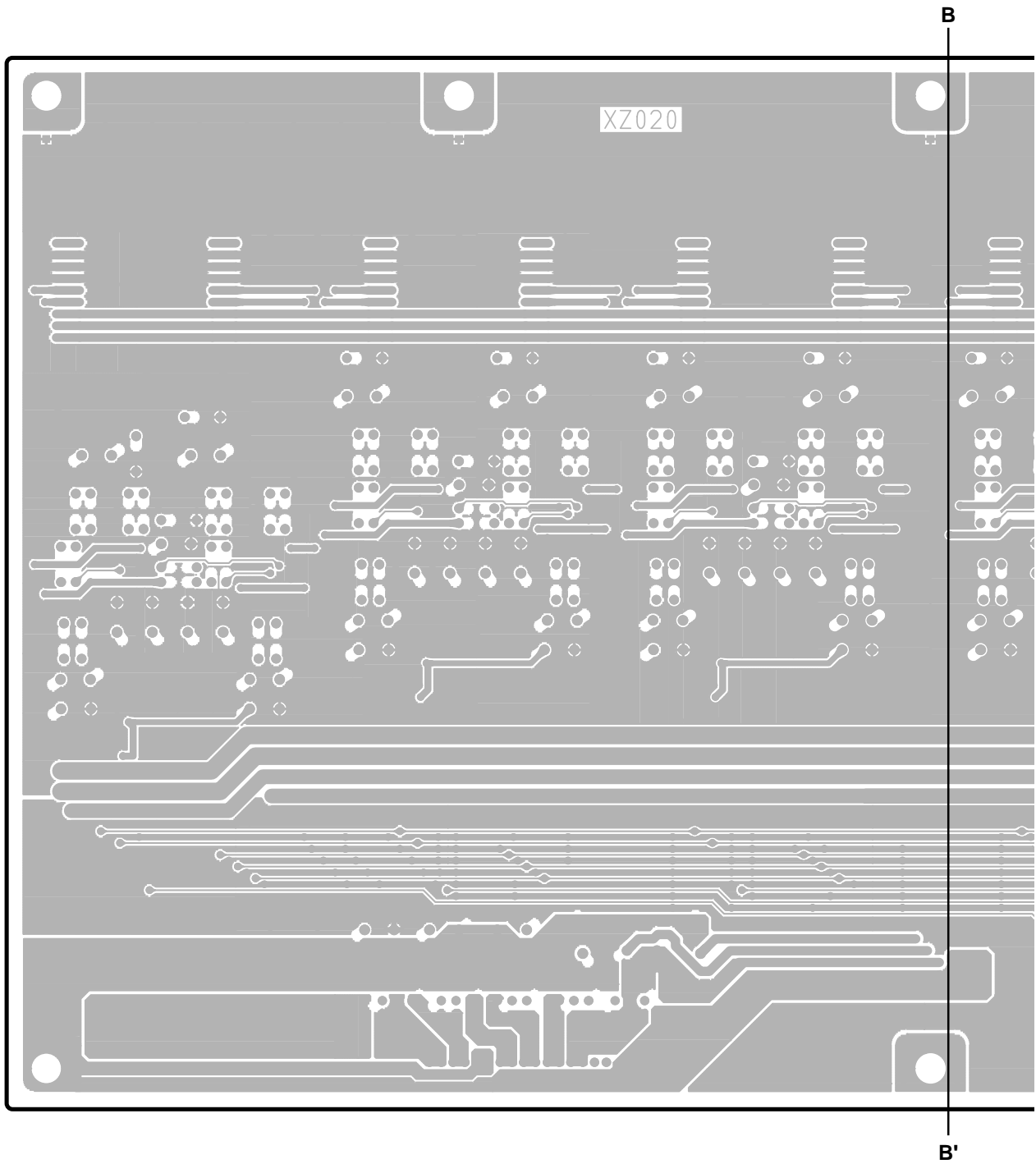
to DSP-CN952, CN954

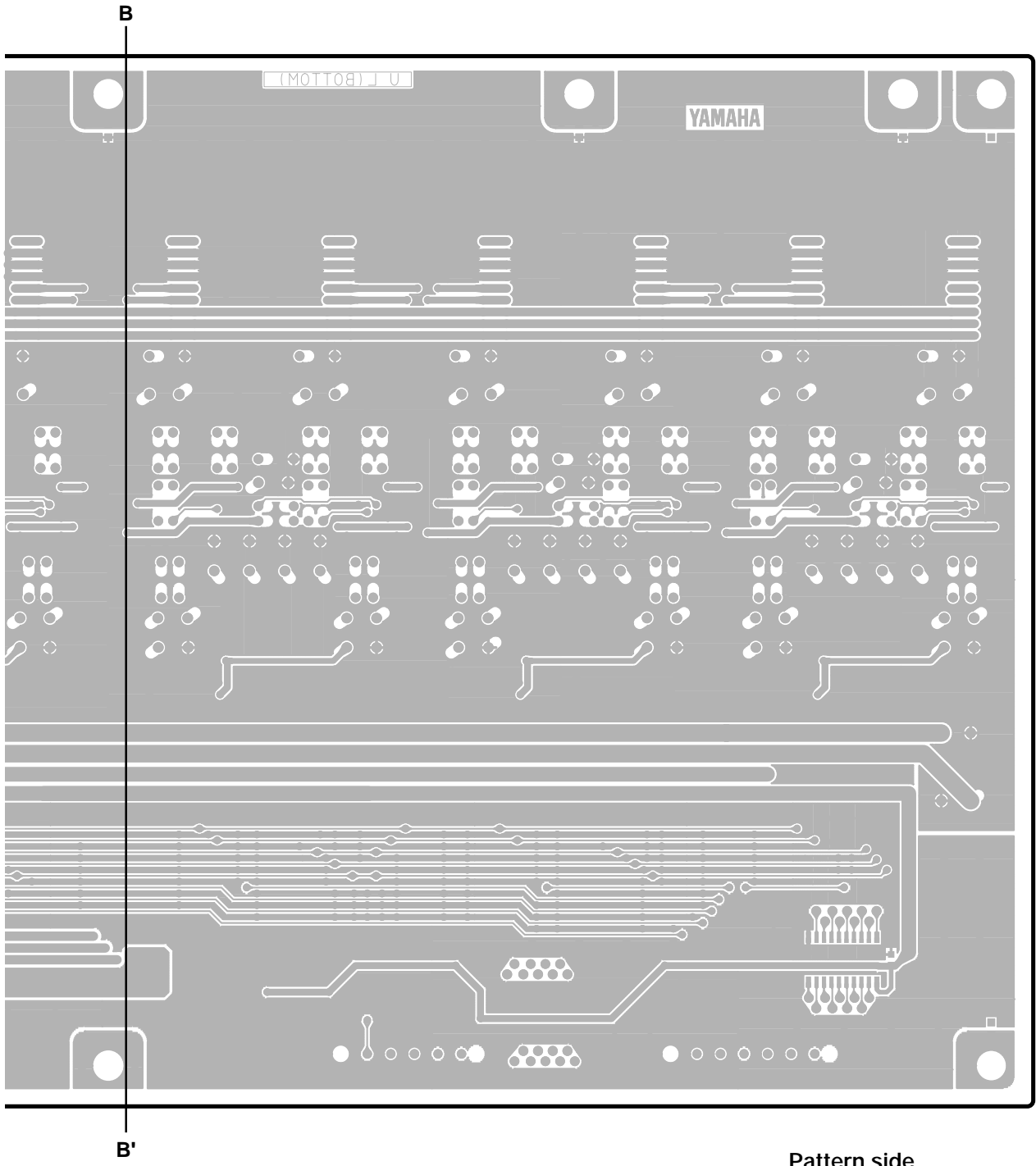
to DSP-CN951, CN953



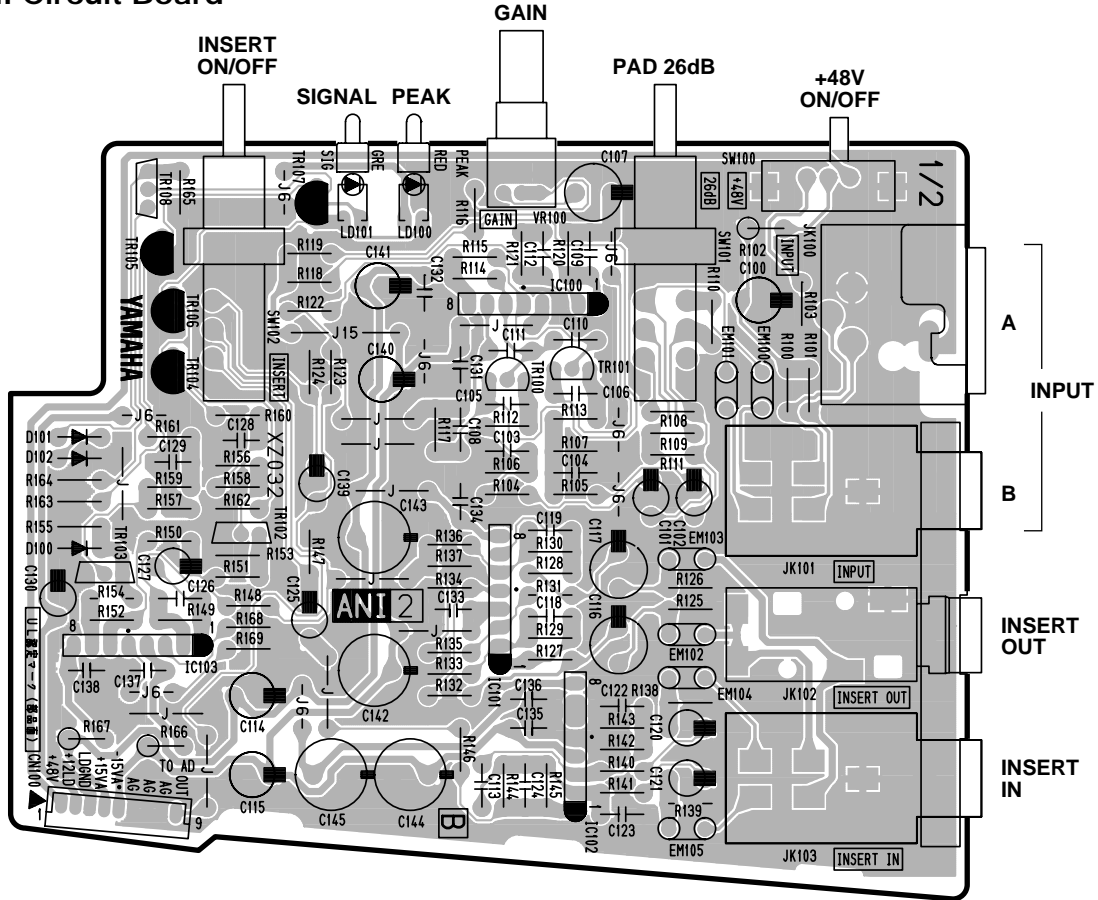
- CN101: to ANI#1,#13-CN100
- CN102: to ANI#2,#14-CN100
- CN201: to ANI#3,#15-CN100
- CN202: to ANI#4,#16-CN100
- CN301: to ANI#5,#17-CN100
- CN302: to ANI#6,#18-CN100
- CN401: to ANI#7,#19-CN100
- CN402: to ANI#8,#20-CN100
- CN501: to ANI#9,#21-CN100
- CN502: to ANI#10,#22-CN100
- CN601: to ANI#11,#23-CN100
- CN602: to ANI#12,#24-CN100

• AD Circuit Board



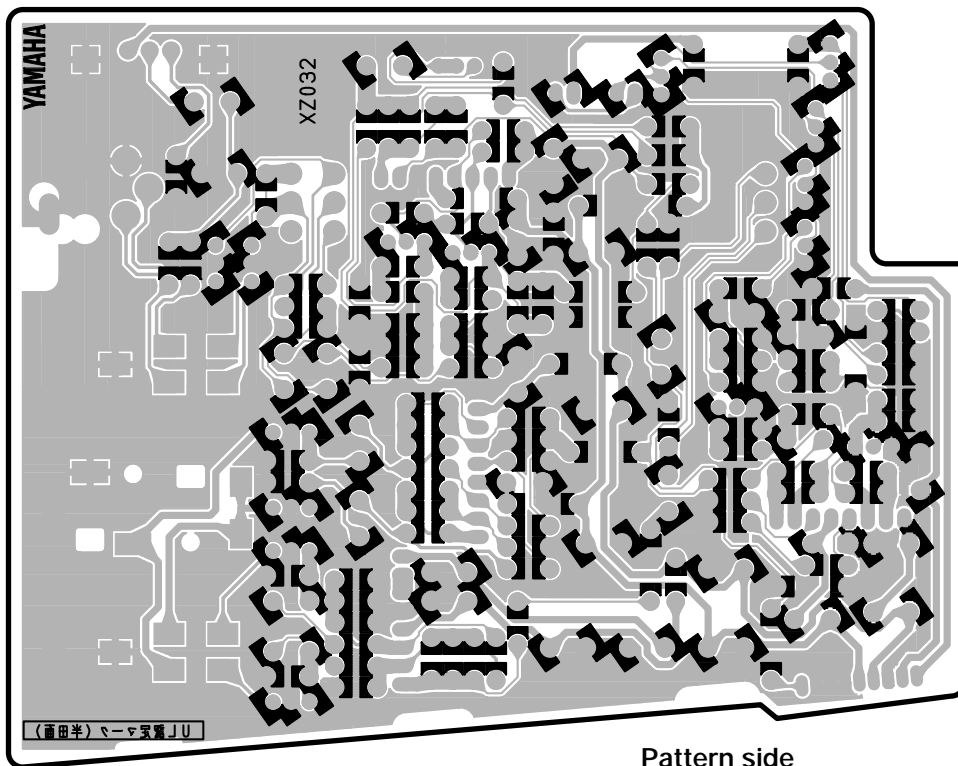


• ANI Circuit Board



to AD #1, #2-CN101, CN102, CN201, CN202, CN301, CN302, CN401, CN402, CN501, CN502, CN601, CN602

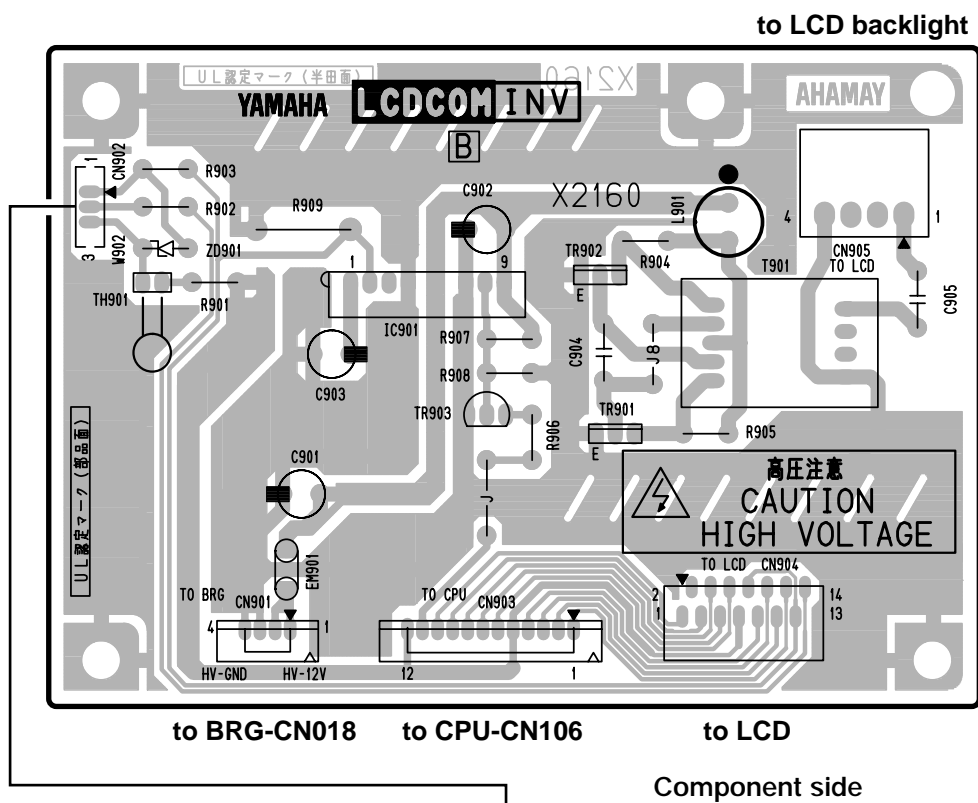
Component side



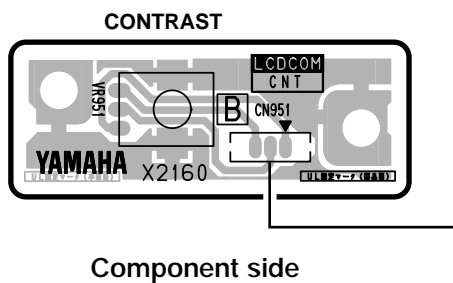
Pattern side

3NA-V628760-2

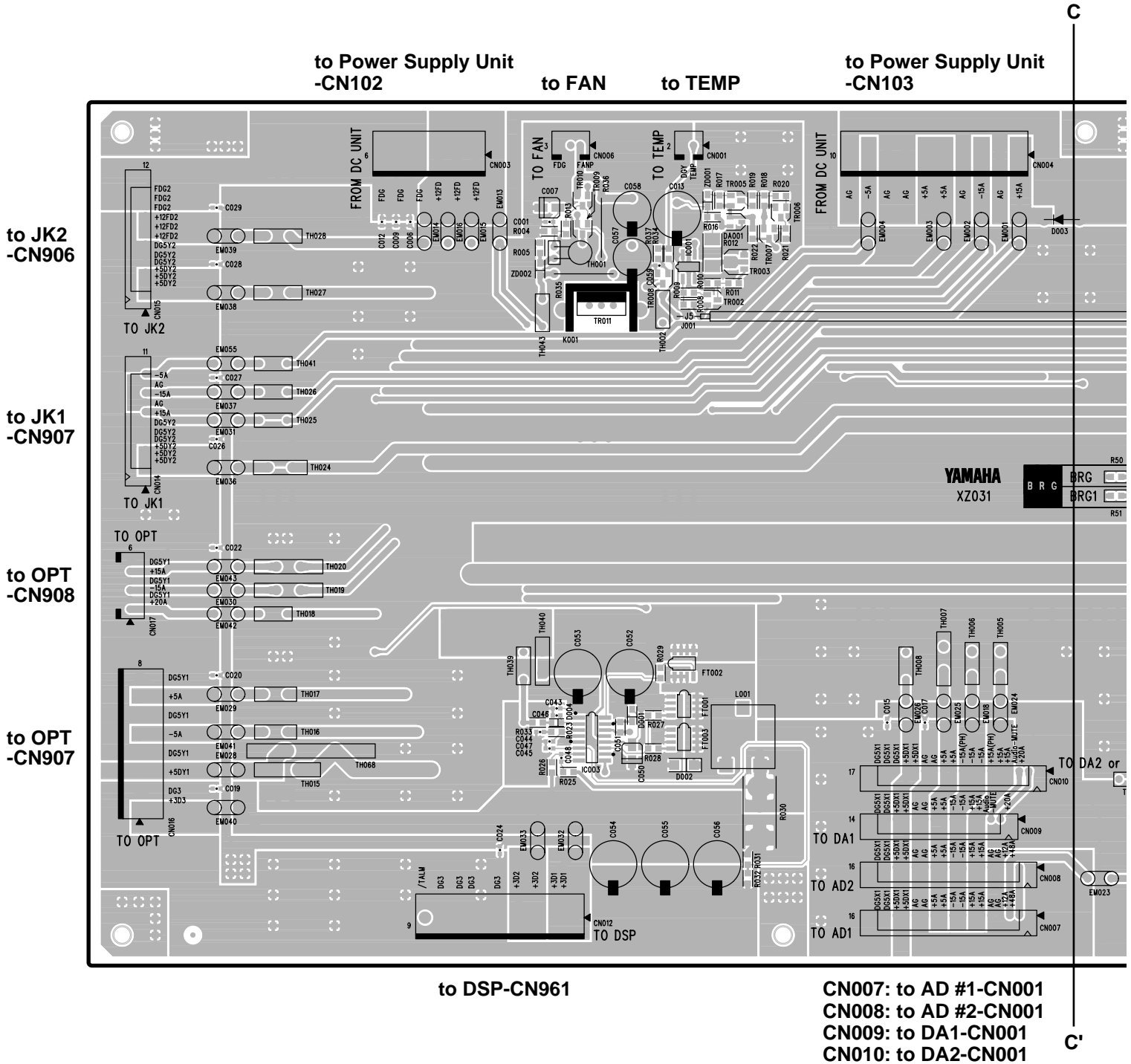
● LCDCOM (INV) Circuit Board

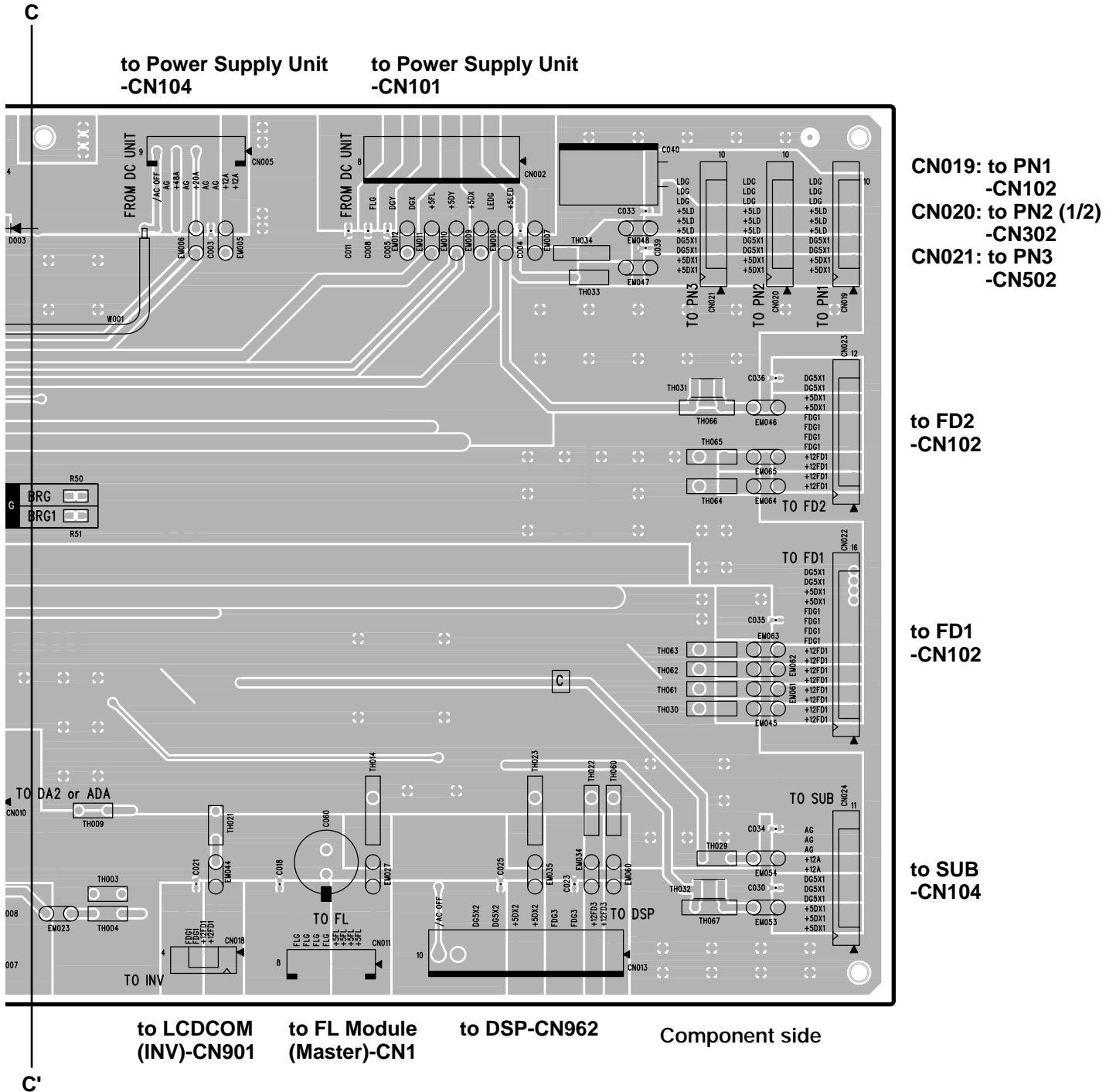


● LCDCOM (CNT) Circuit Board

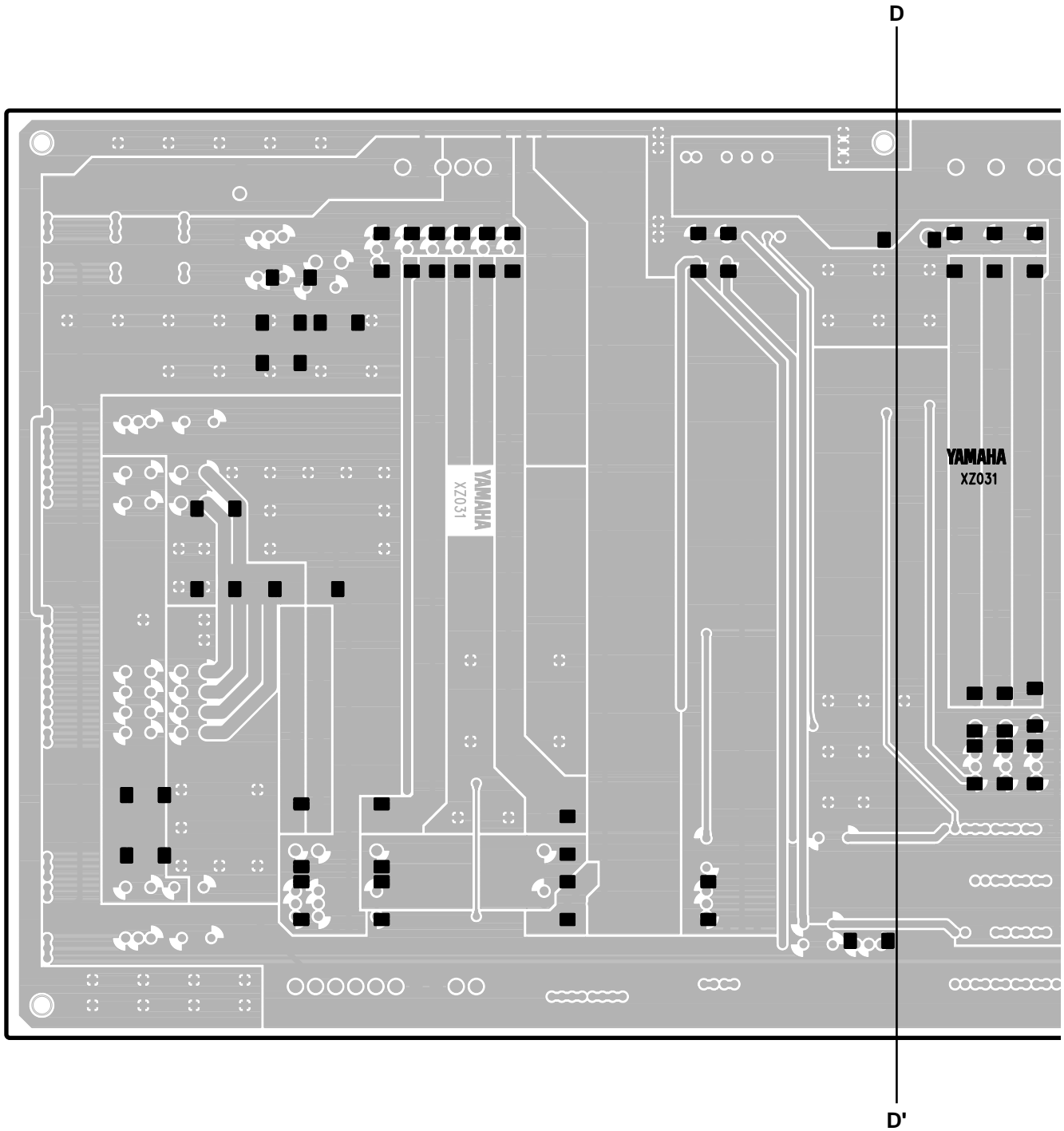


• BRG Circuit Board

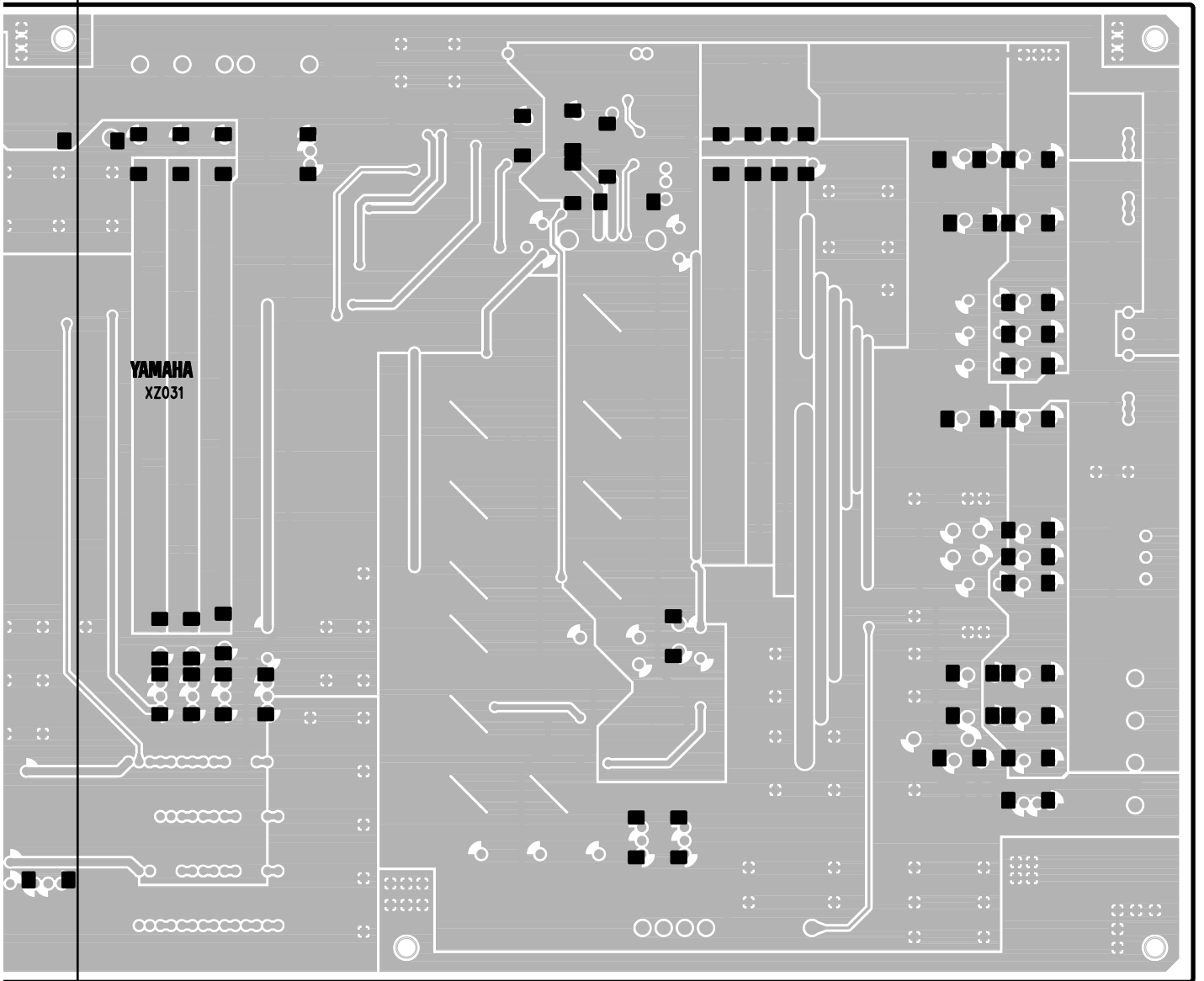




• BRG Circuit Board



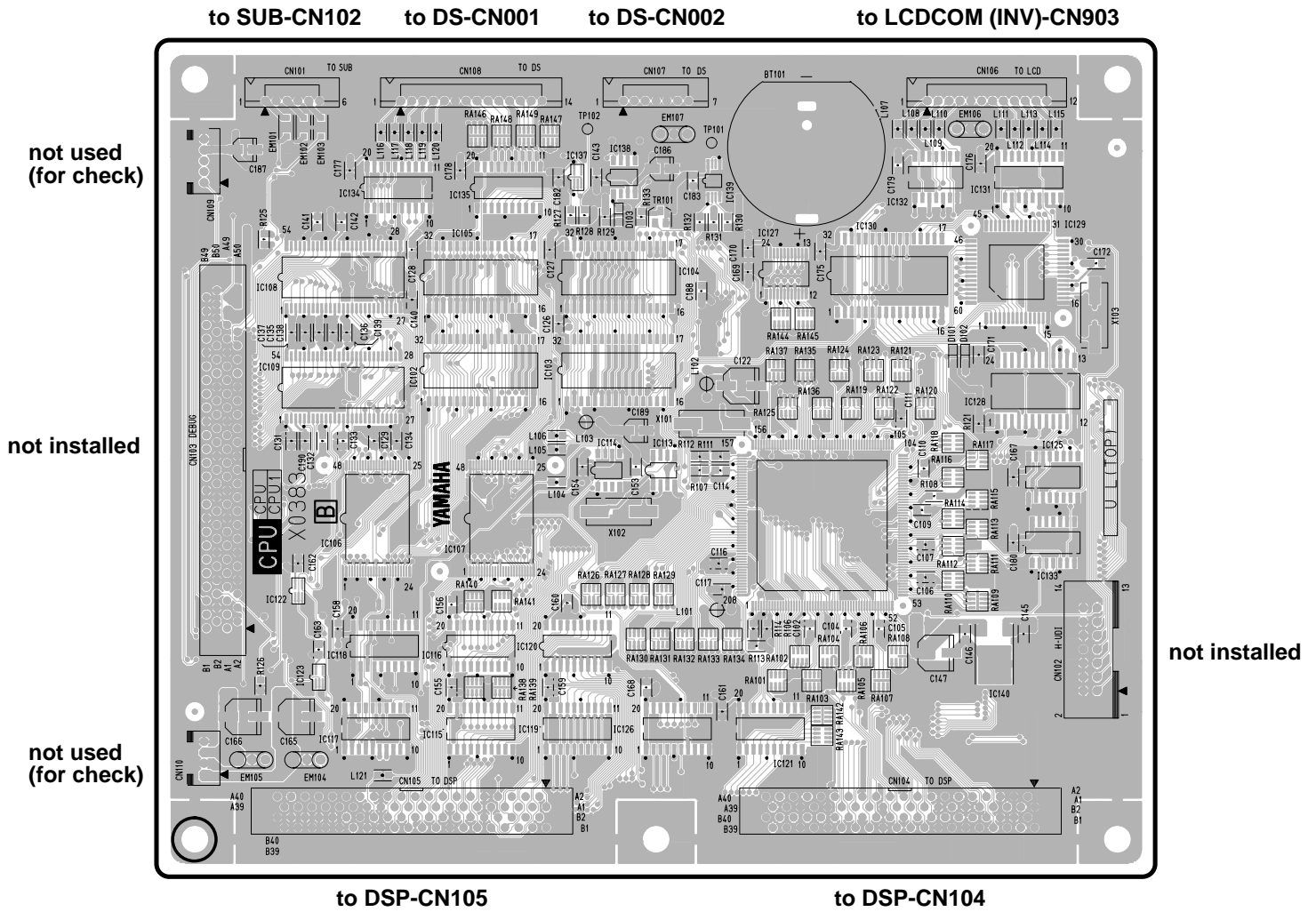
D



D'

Pattern side

• CPU Circuit Board

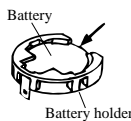


Component side

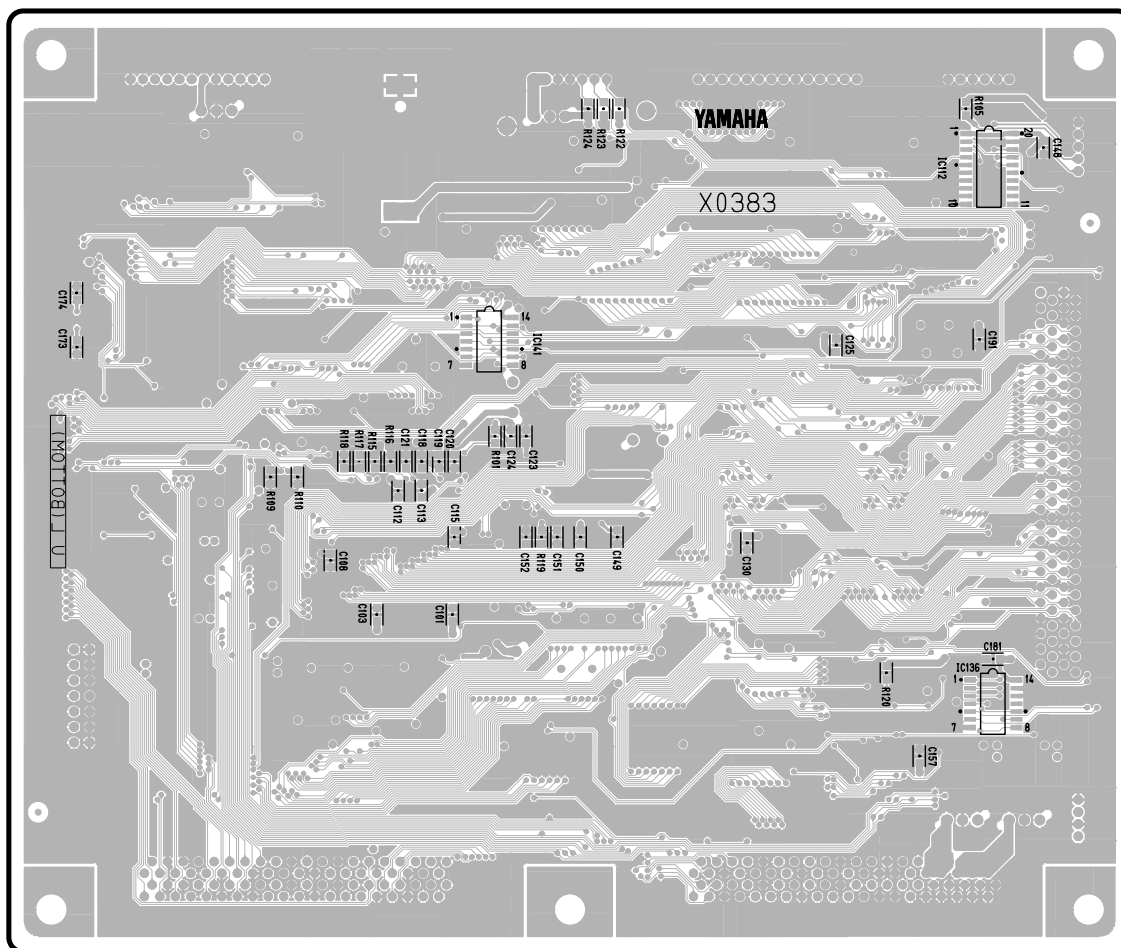
• Lithium Battery

Battery VN103500
VN103600(Battery holder for VN103500)

- Notice for back-up battery removal
Push the battery as shown in figure, then the battery will pop up.
- Druk de batterij naar beneden zoals aangegeven in de tekening de batterij springt dan naar voren.

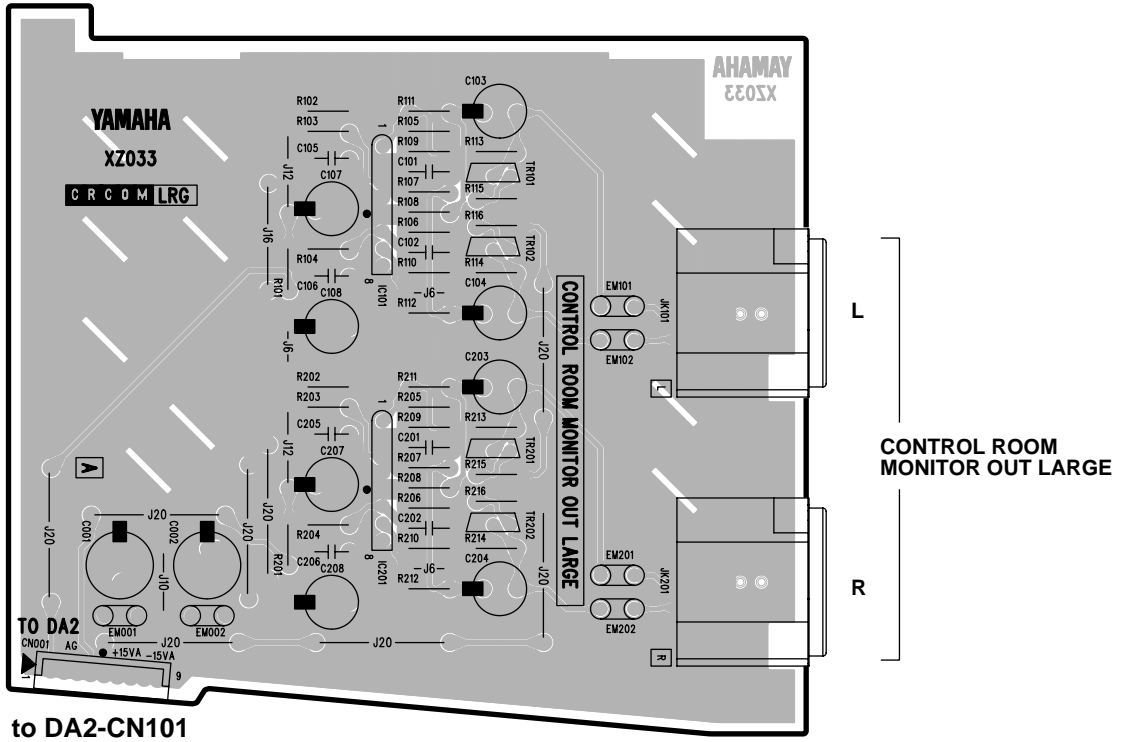


• CPU Circuit Board



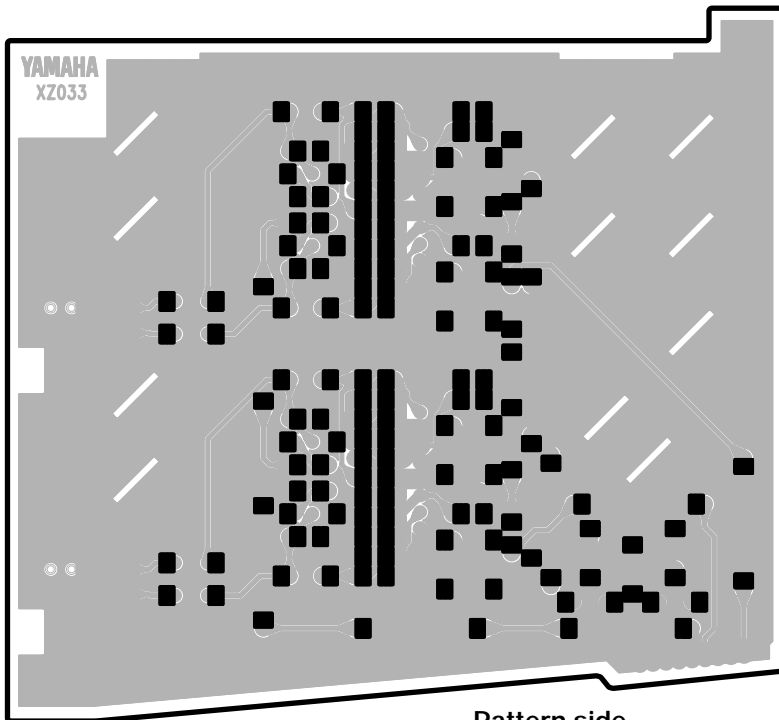
Pattern side

• CRCOM (LRG) Circuit Board



to DA2-CN101

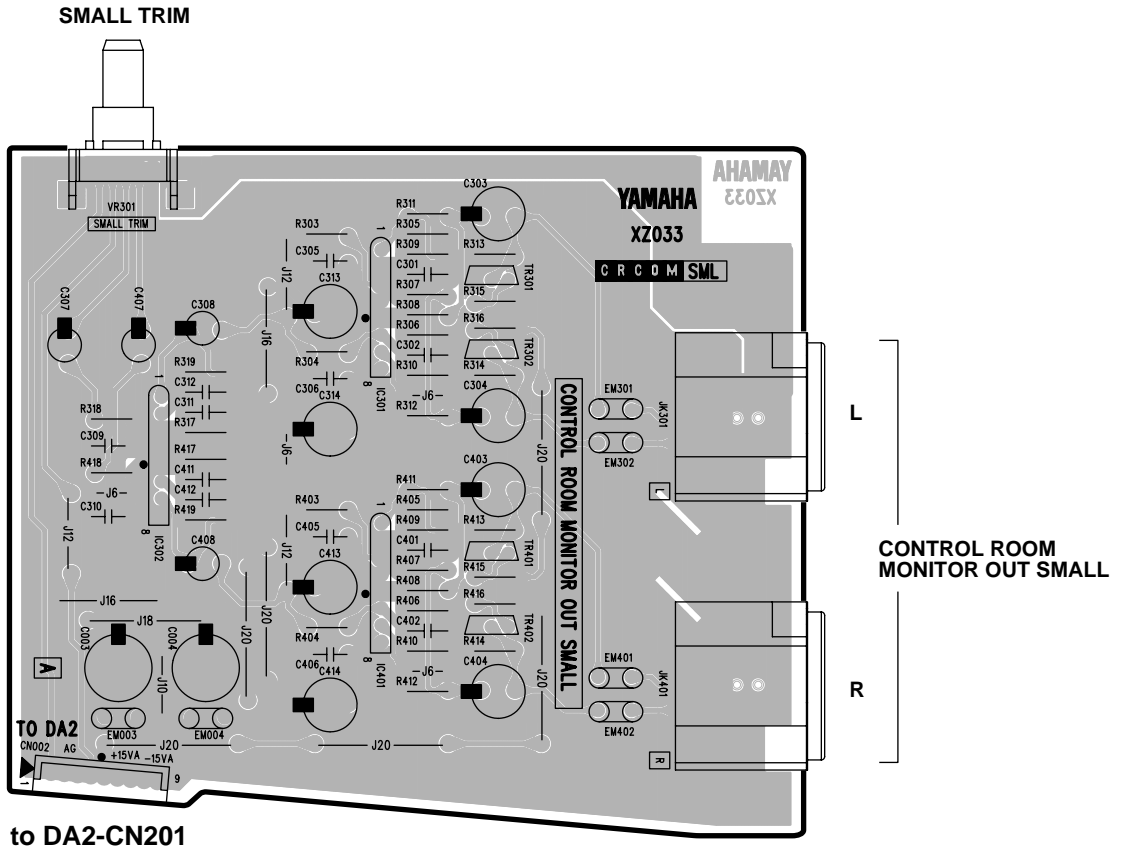
Component side



Pattern side

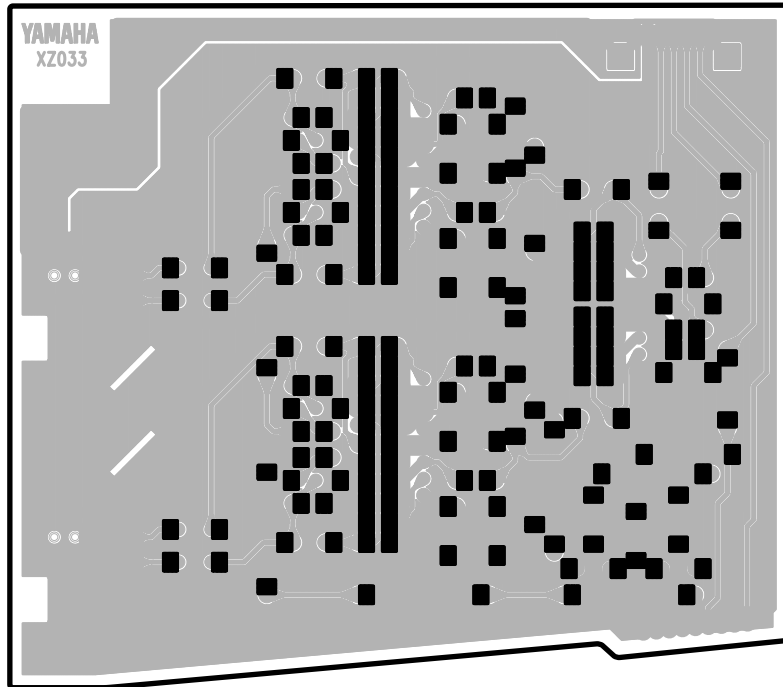
3NA-V628790-1

• CRCOM (SML) Circuit Board



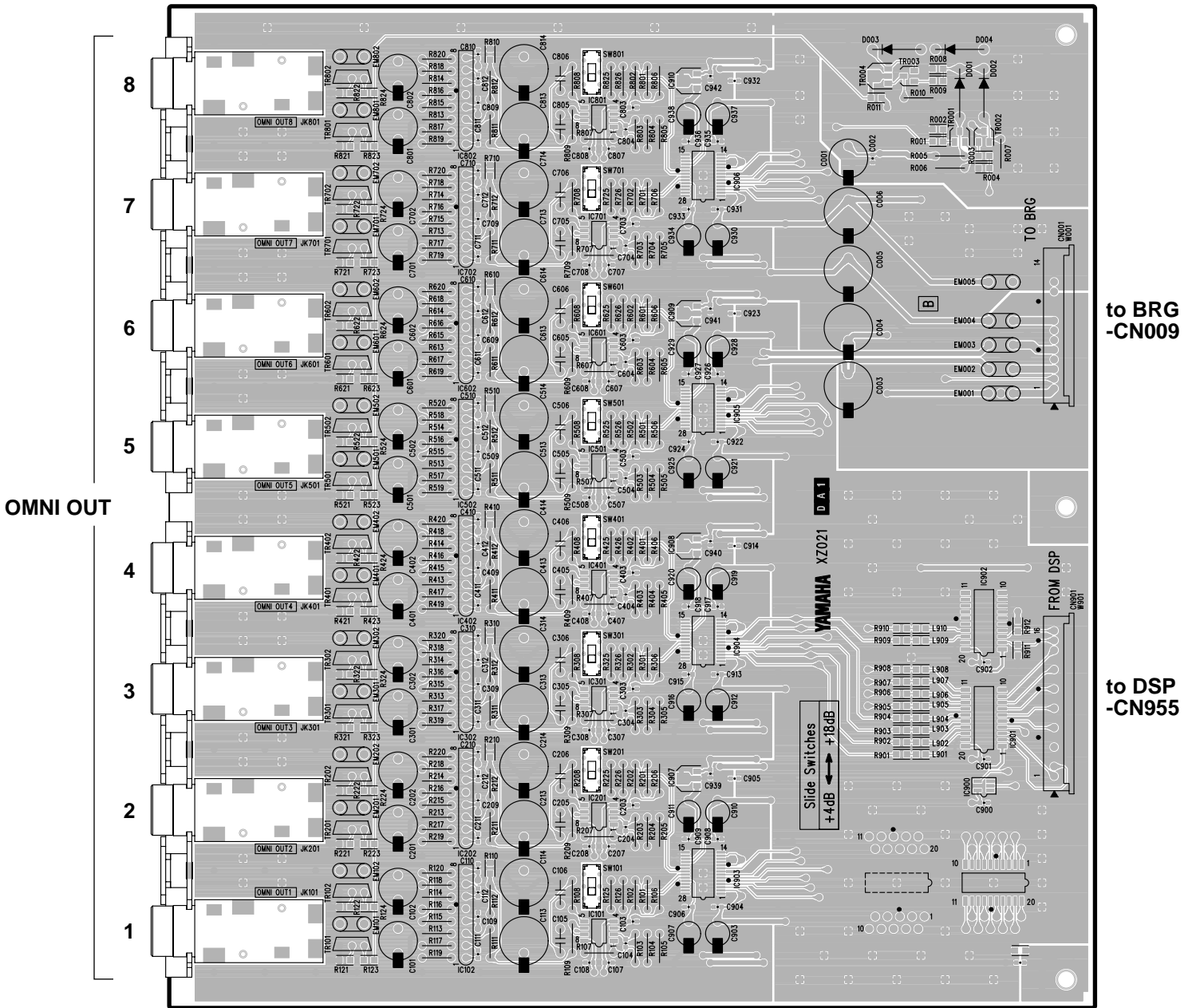
to DA2-CN201

Component side



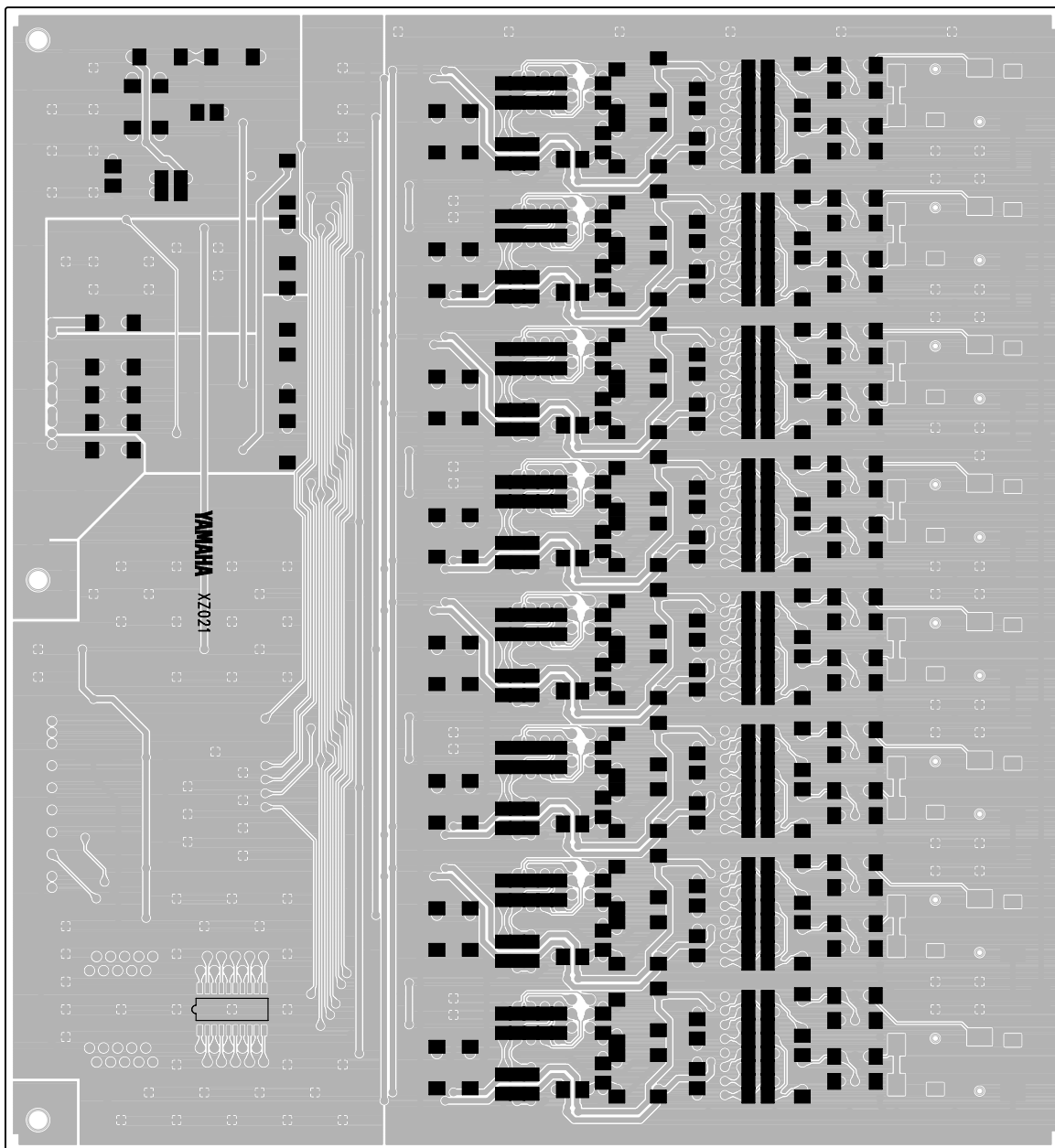
Pattern side

• DA1 Circuit Board



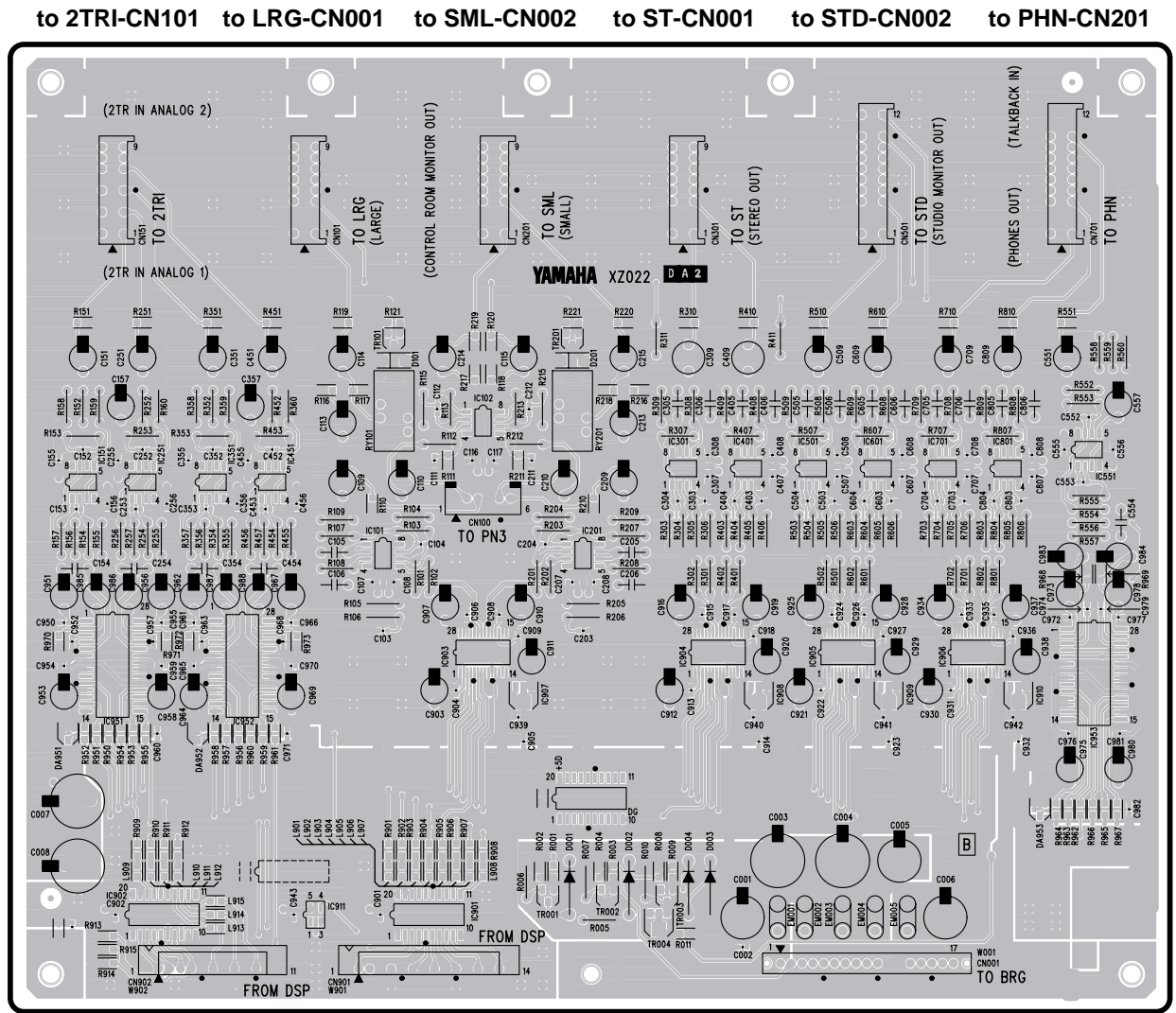
Component side

• DA1 Circuit Board



Pattern side

• DA2 Circuit Board



CN100:
to PN3-CN505

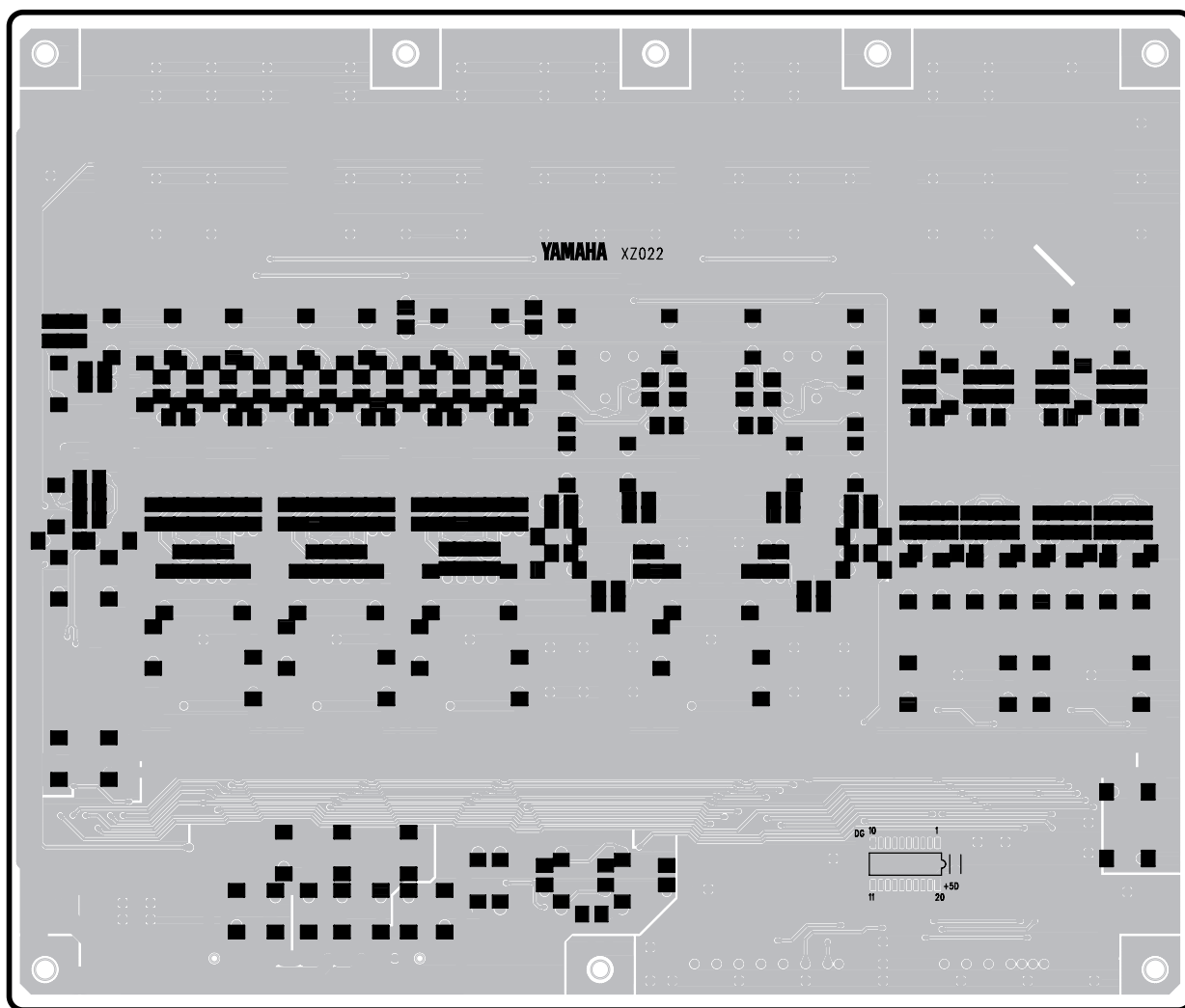
to DSP-CN957

to DSP-CN956

to BRG-CN010

Component side

• DA2 Circuit Board



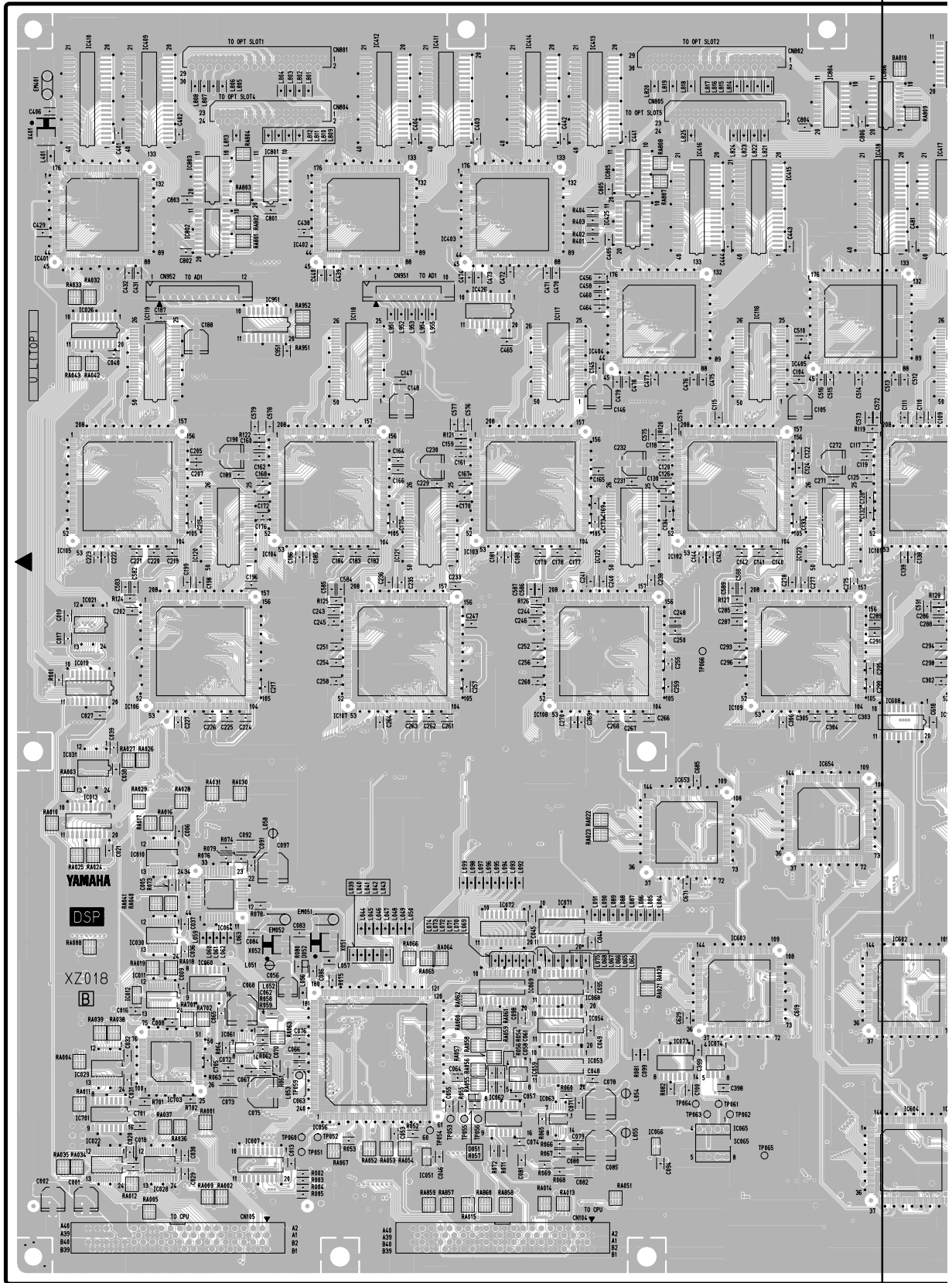
Pattern side

• DSP Circuit Board

CN801: to OPT-CN801
CN804: to OPT-CN804

CN802: to OPT-CN802
CN805: to OPT-CN805

CN951: to AD #1 -CN003
CN952: to AD #1 -CN002

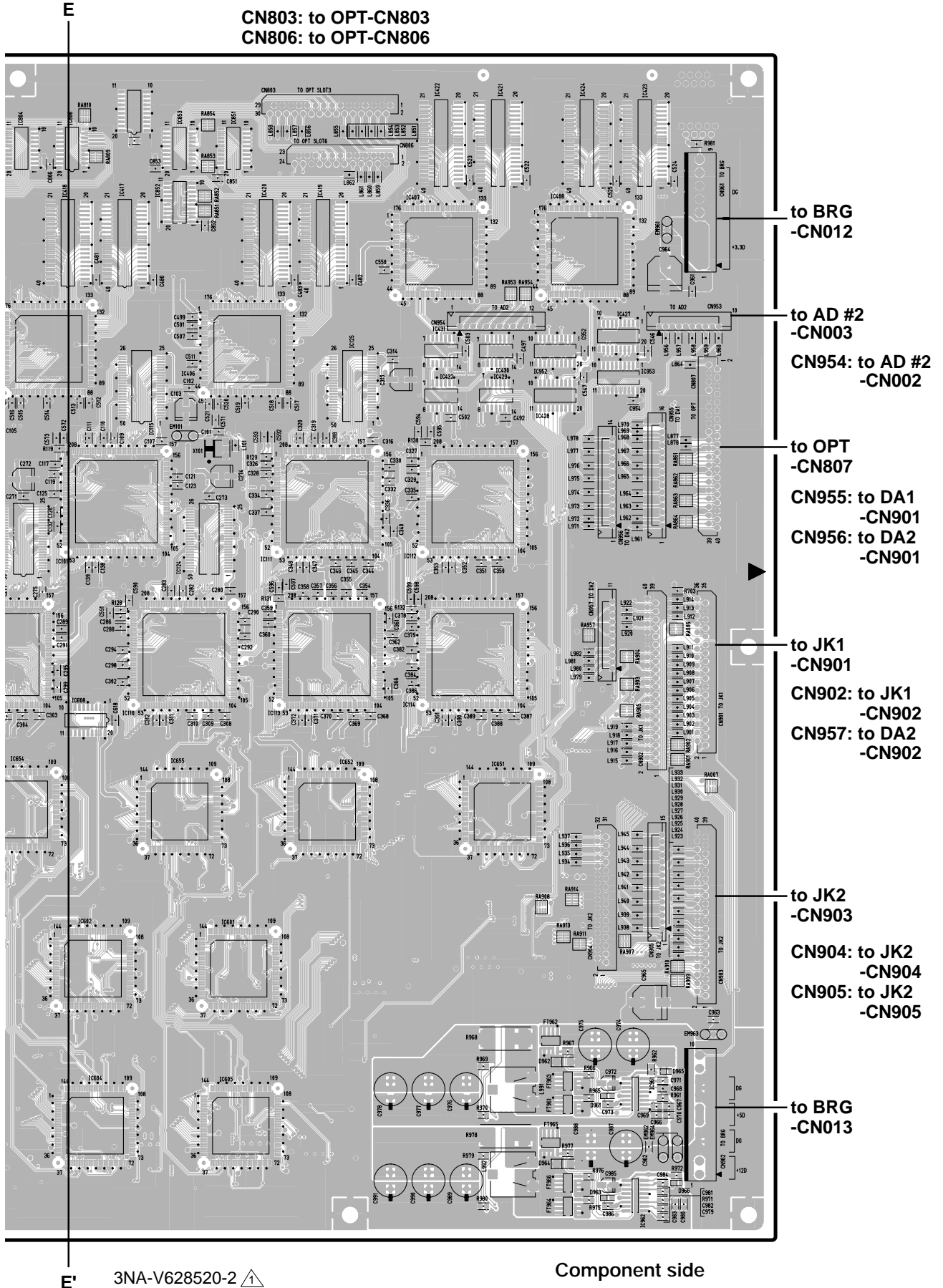


to CPU-CN105

to CPU-CN104

3NA-V628520-2

E'



CN803: to OPT-CN803
 CN806: to OPT-CN806

to BRG
 -CN012

to AD #2
 -CN003

CN954: to AD #2
 -CN002

to OPT
 -CN807

CN955: to DA1
 -CN901

CN956: to DA2
 -CN901

to JK1
 -CN901

CN902: to JK1
 -CN902

CN957: to DA2
 -CN902

to JK2
 -CN903

CN904: to JK2
 -CN904

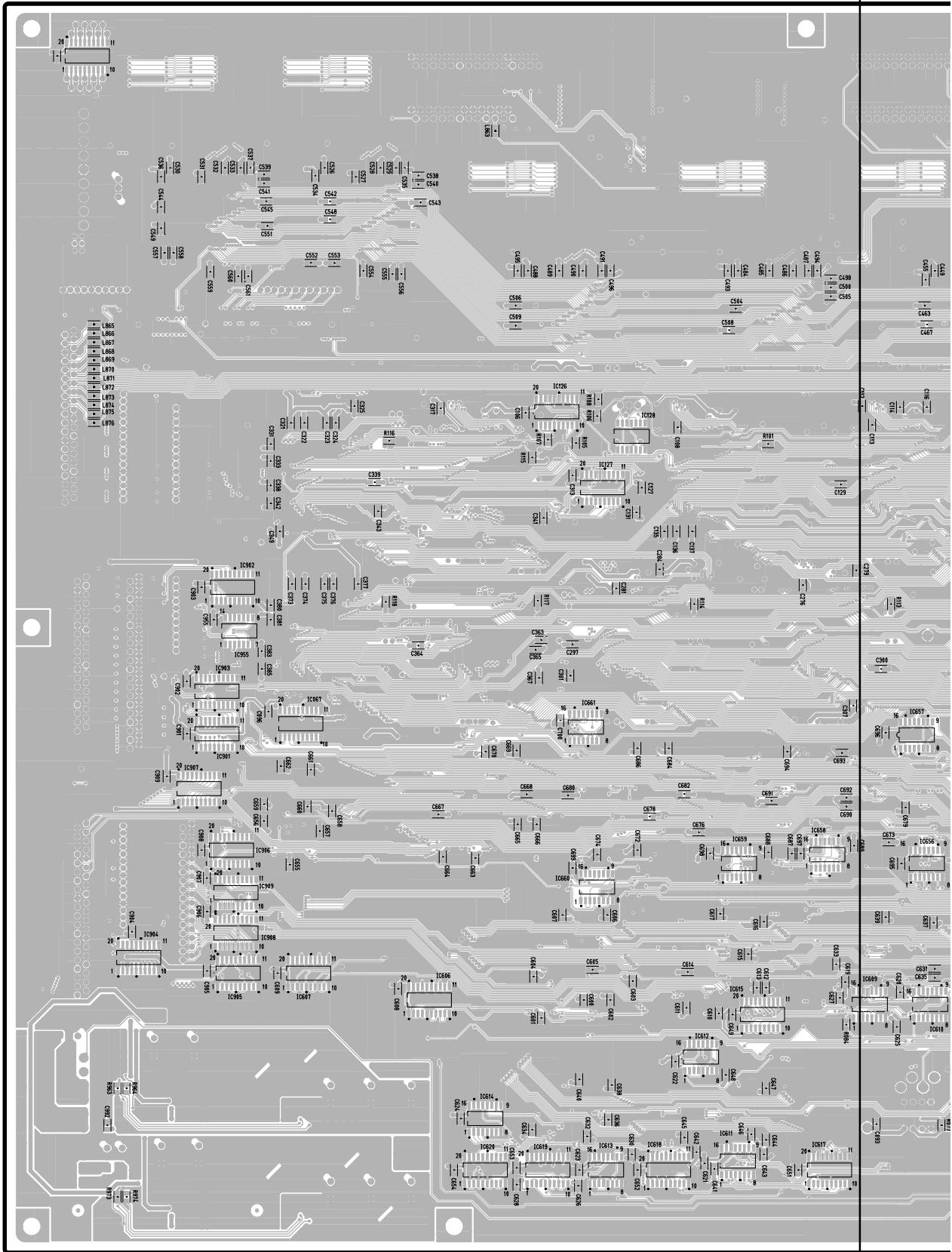
CN905: to JK2
 -CN905

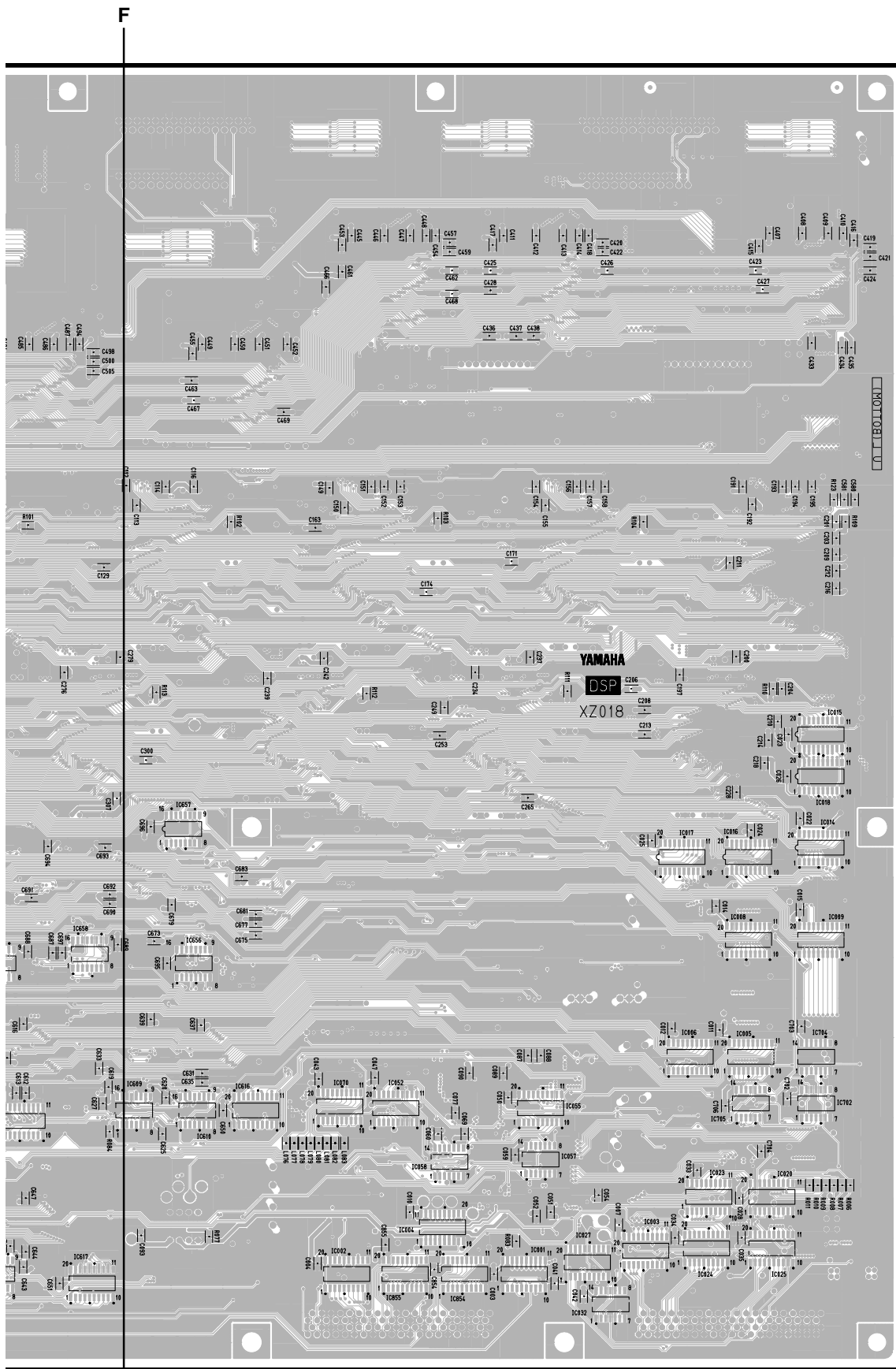
to BRG
 -CN013


3NA-V628520-2 \triangle

Component side

• DSP Circuit Board

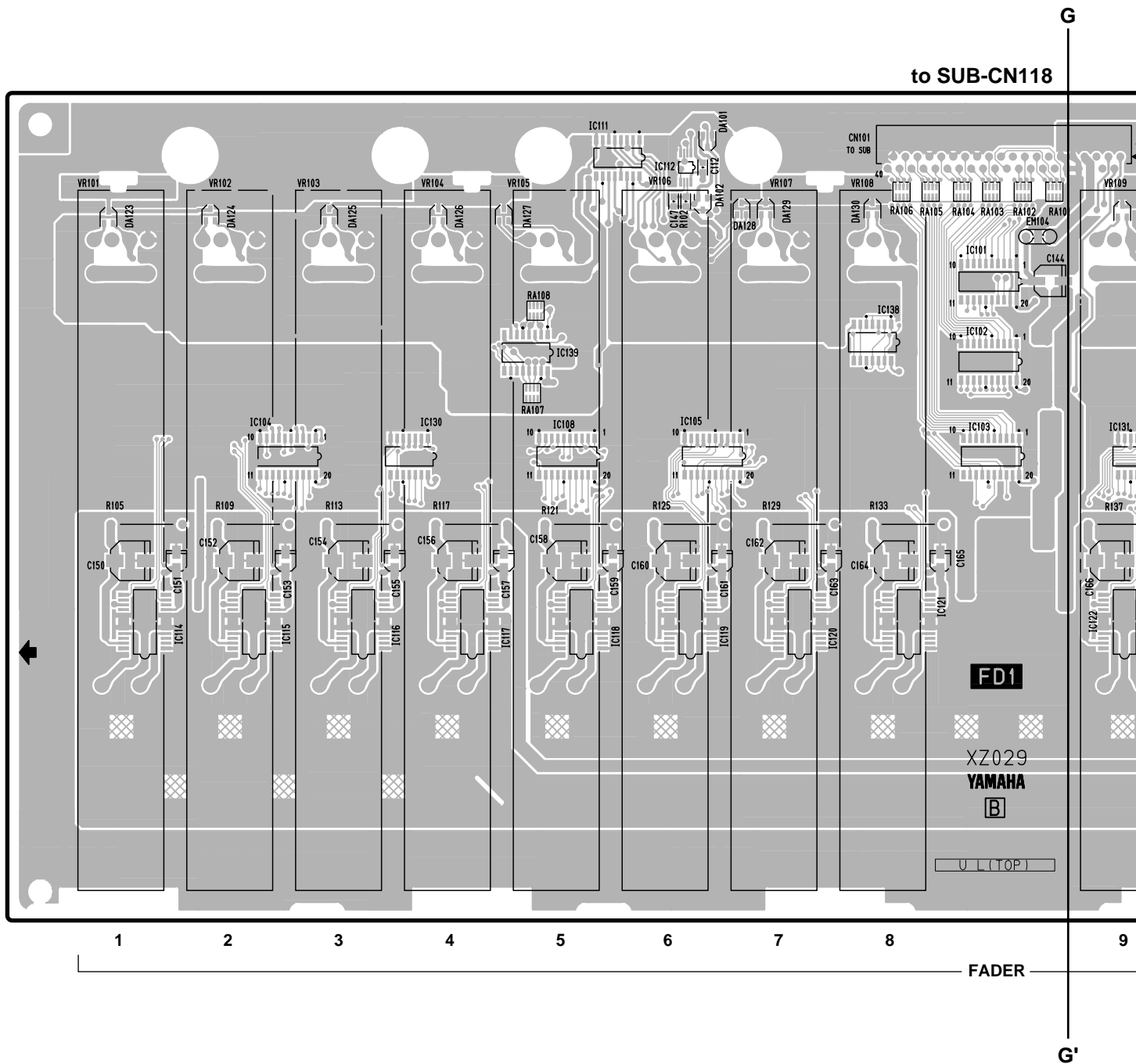


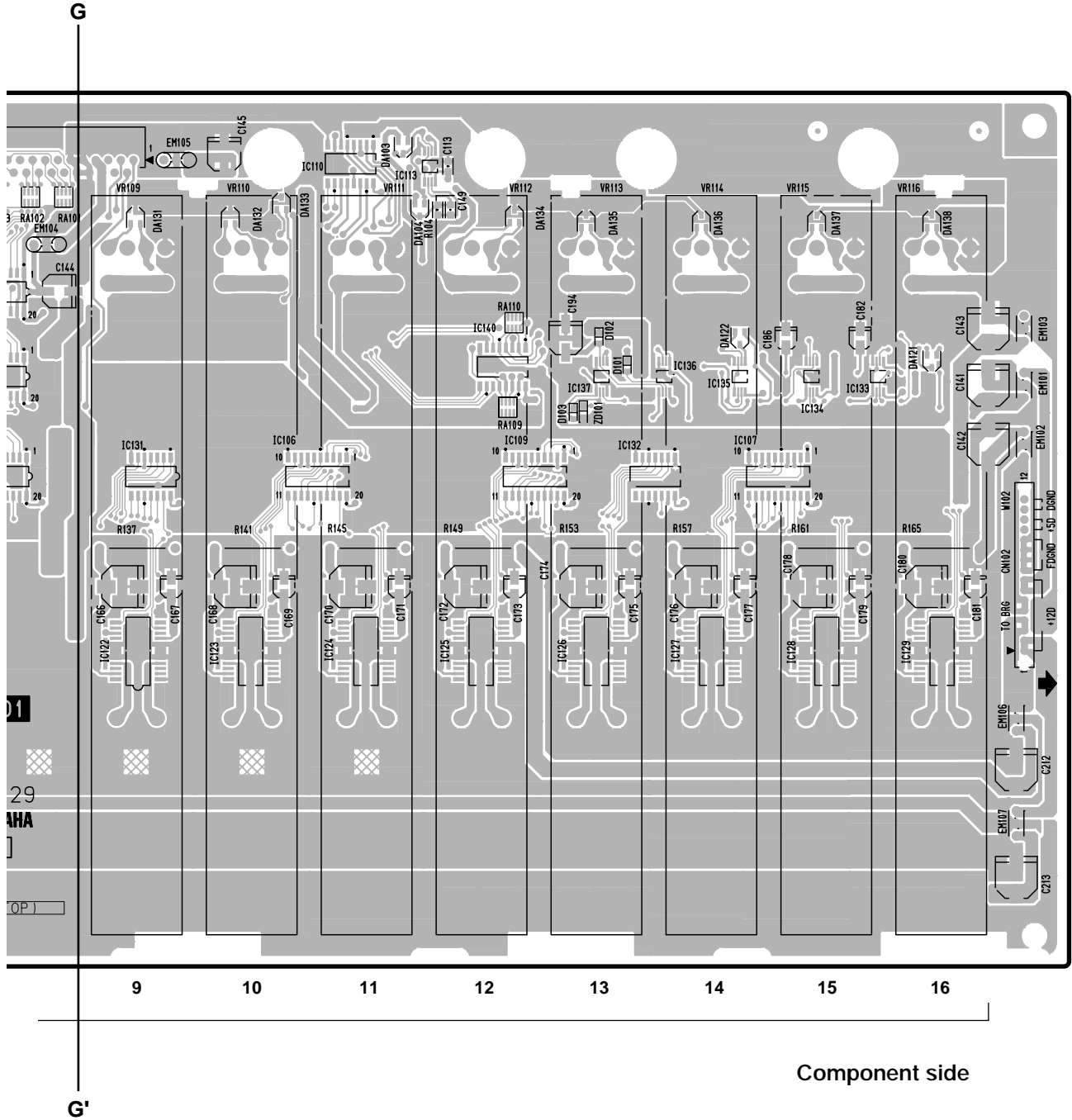


F' 3NA-V628520-3 

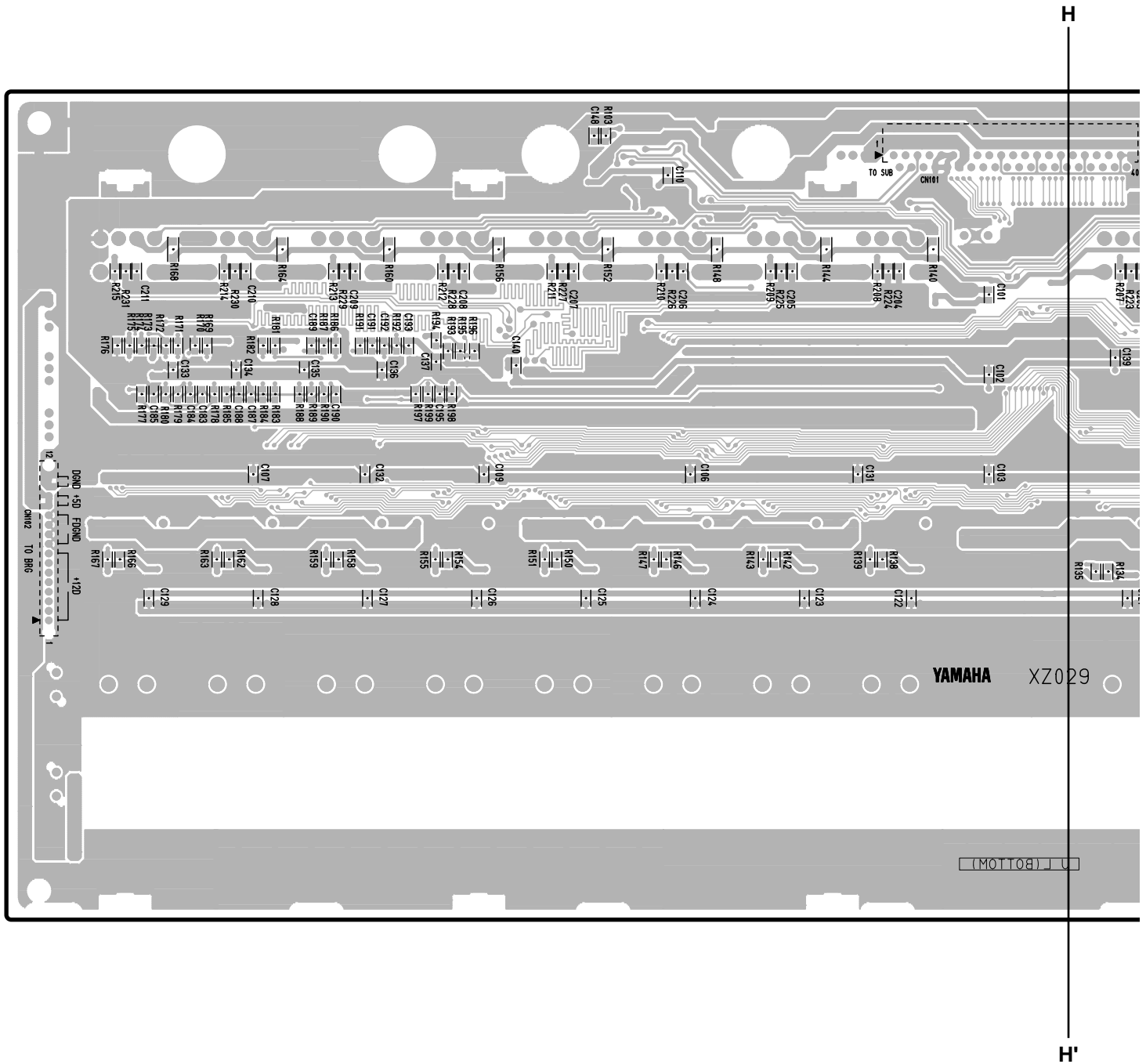
Pattern side

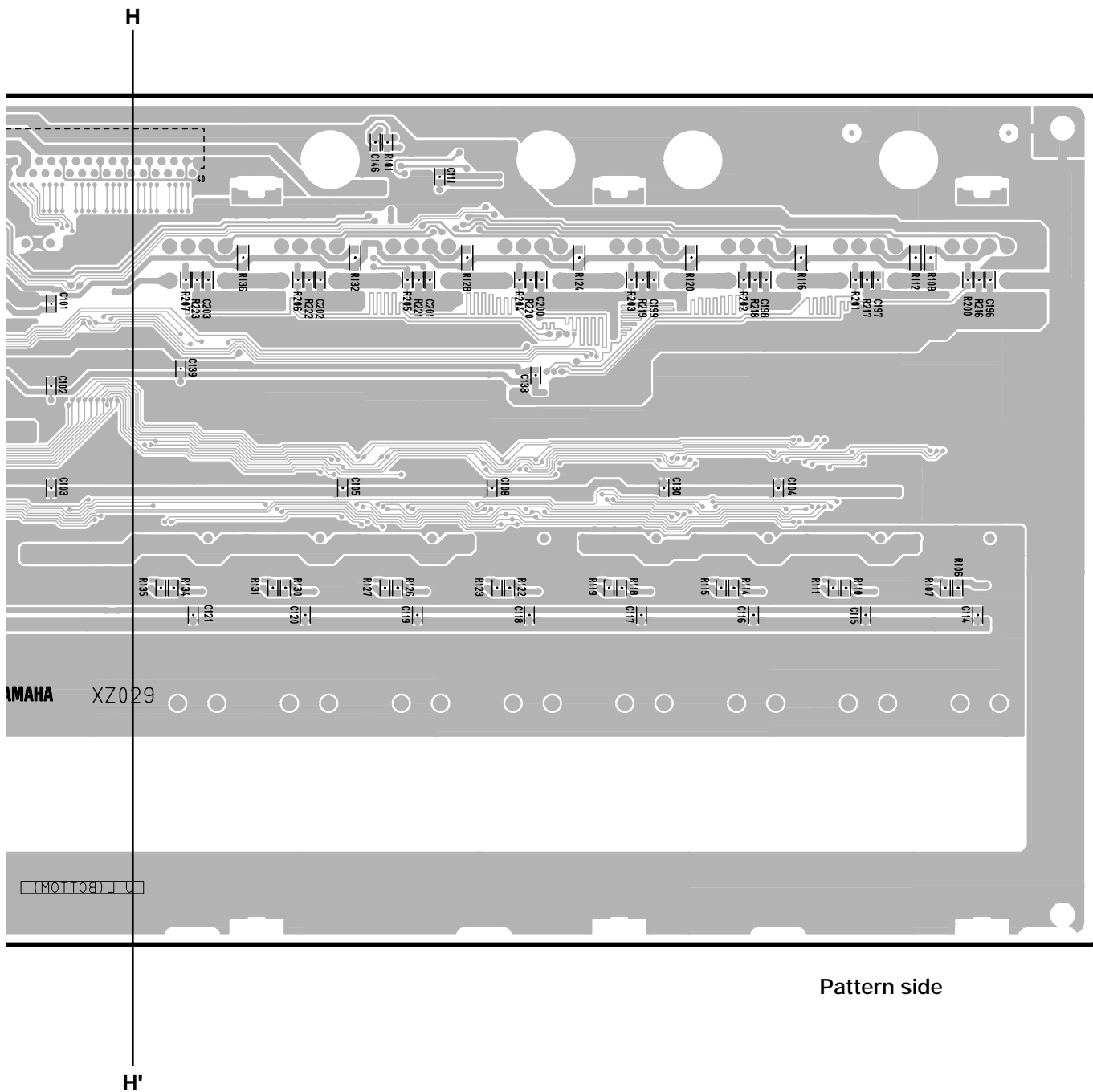
● FD1 Circuit Board





● FD1 Circuit Board



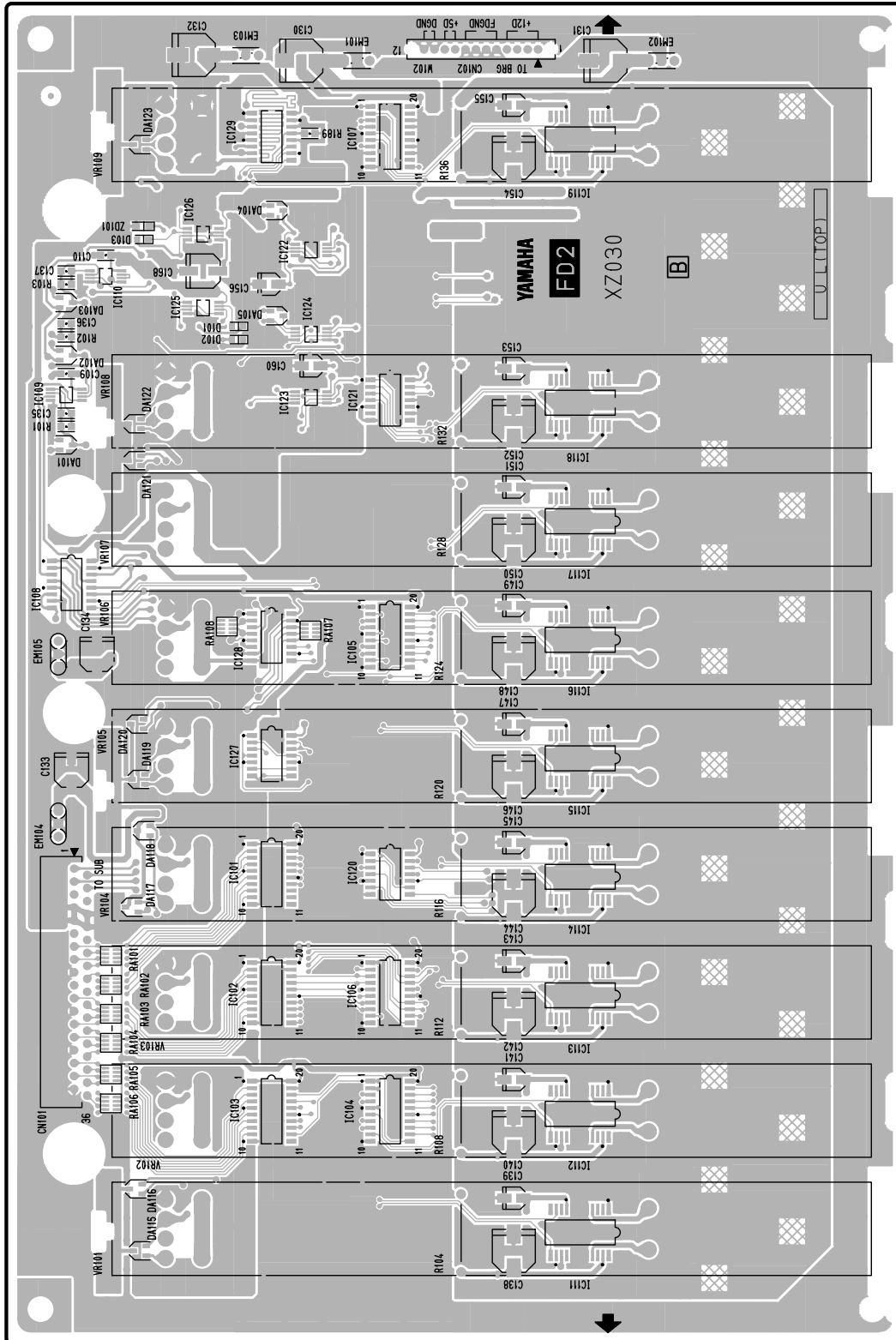


Pattern side

● FD2 Circuit Board

to BRG
-CN023

to SUB-CN119



Component side

STEREO

24

23

22

21

20

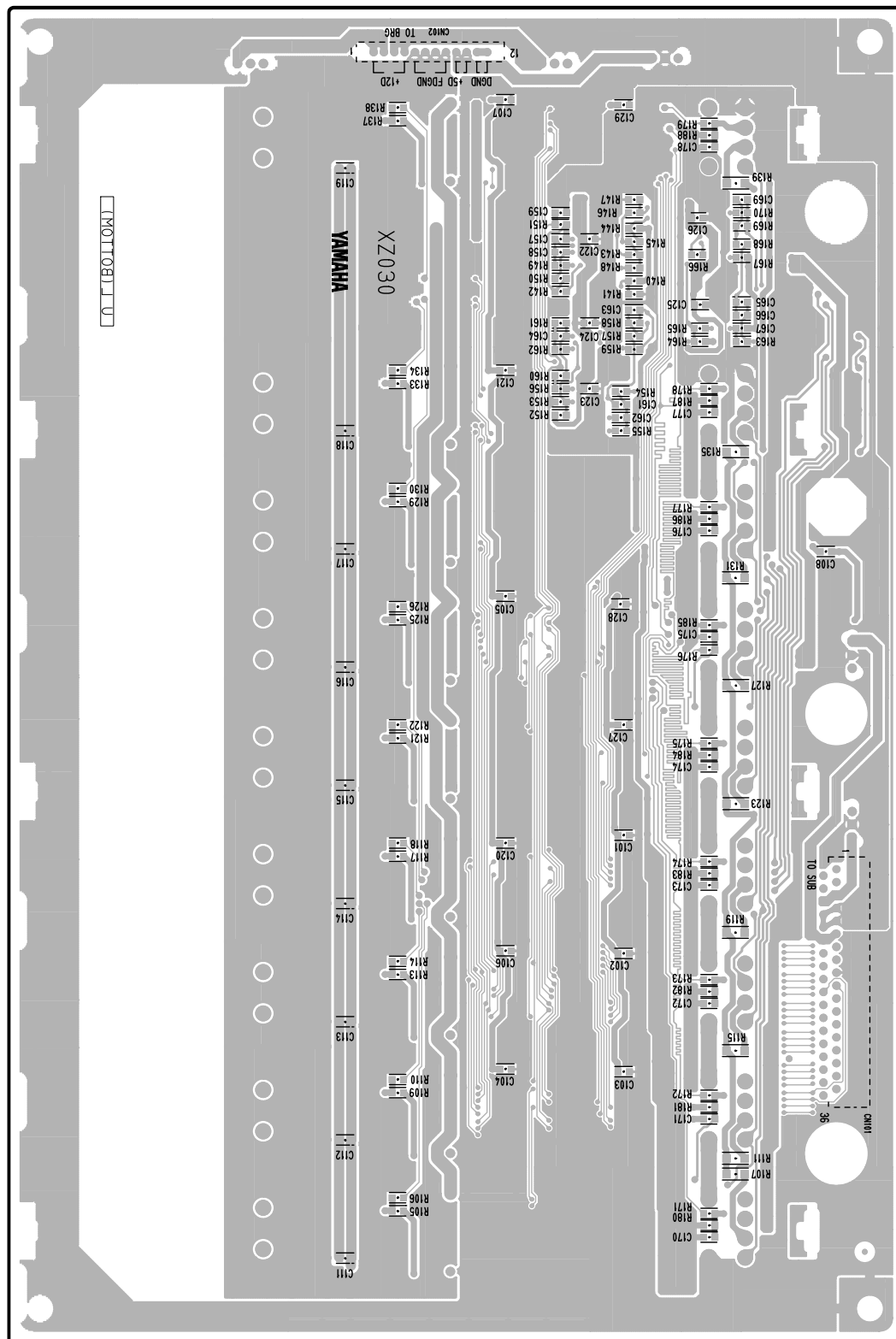
19

18

17

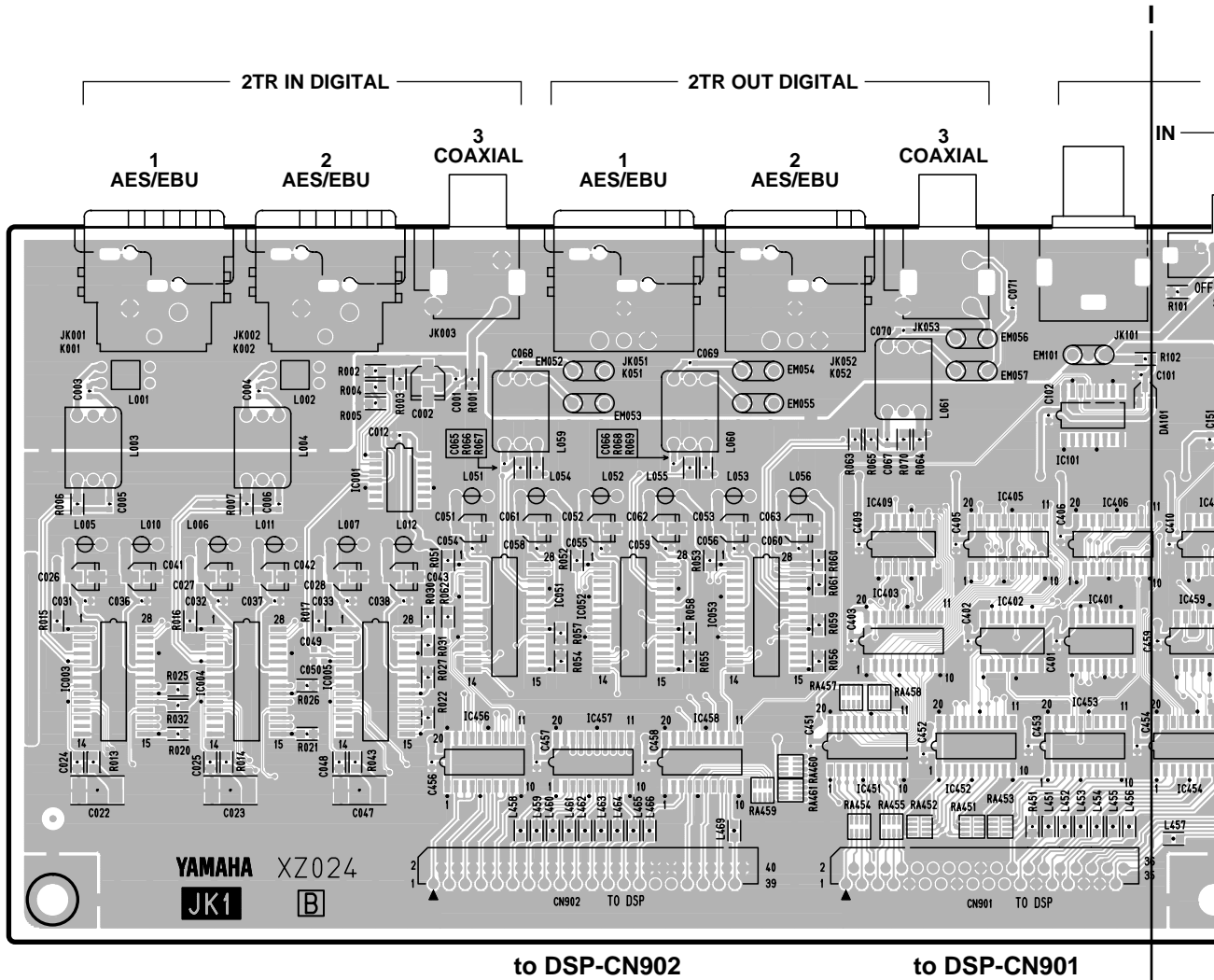
FADER

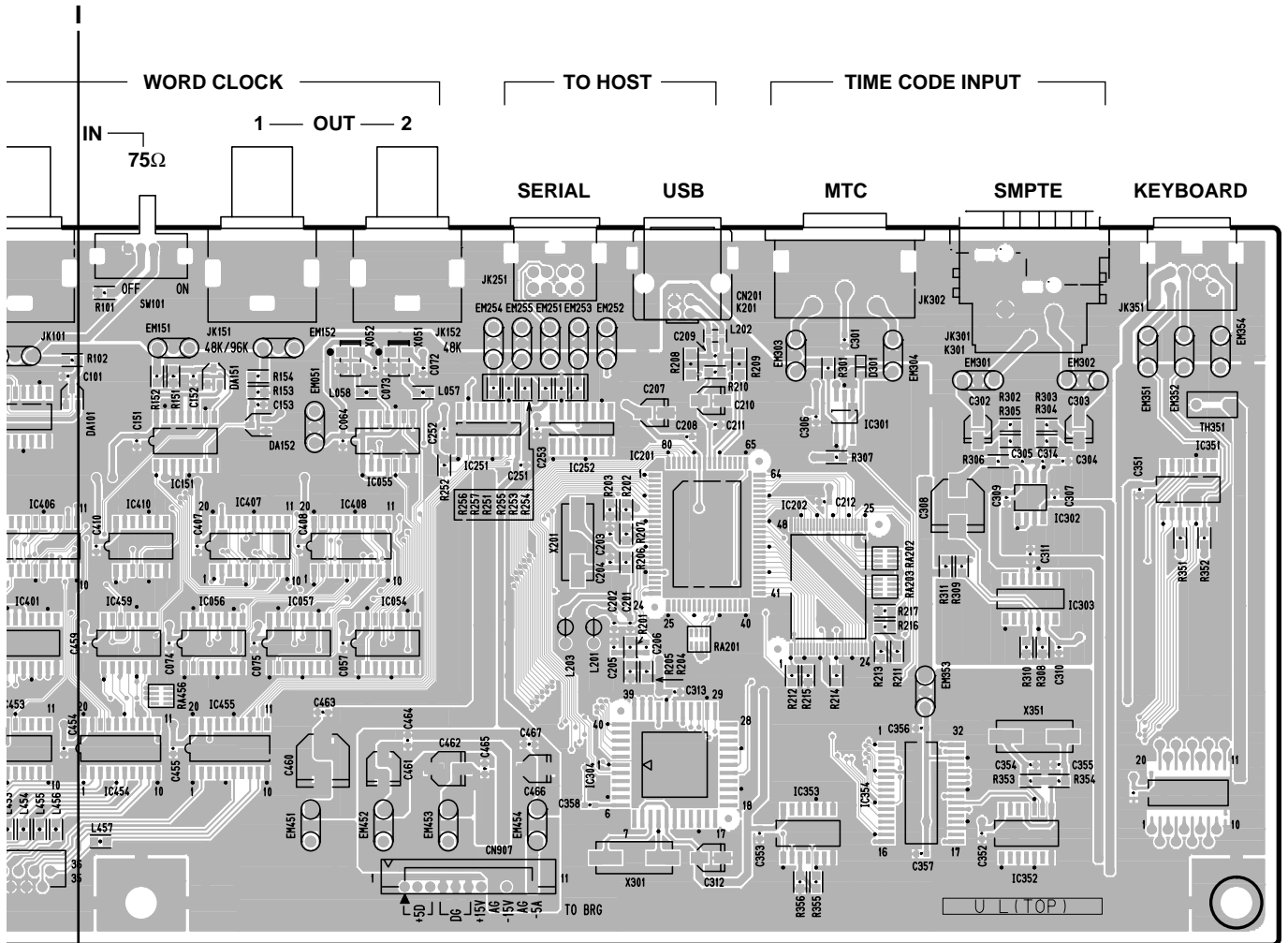
• FD2 Circuit Board



Pattern side

• JK1 Circuit Board

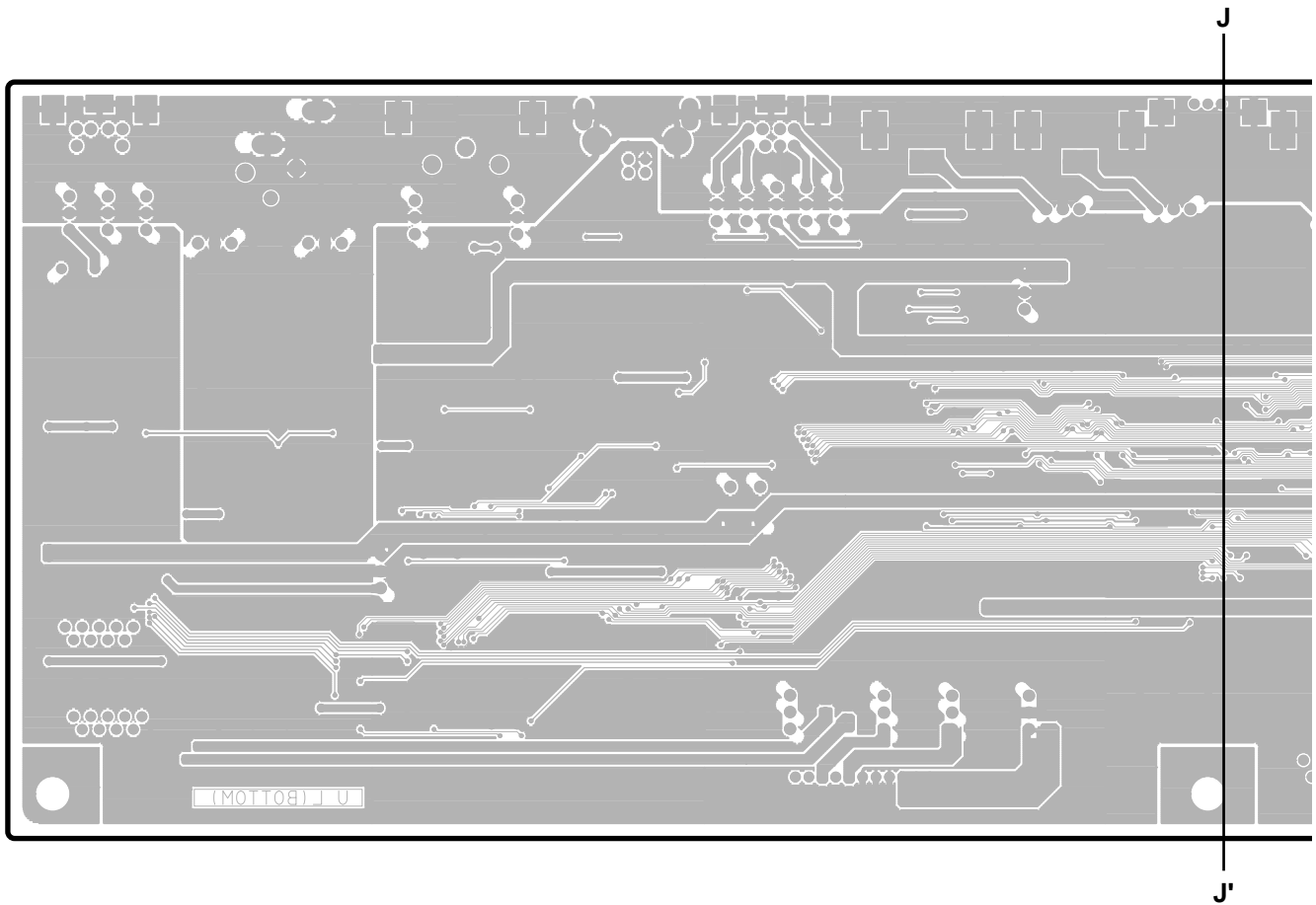


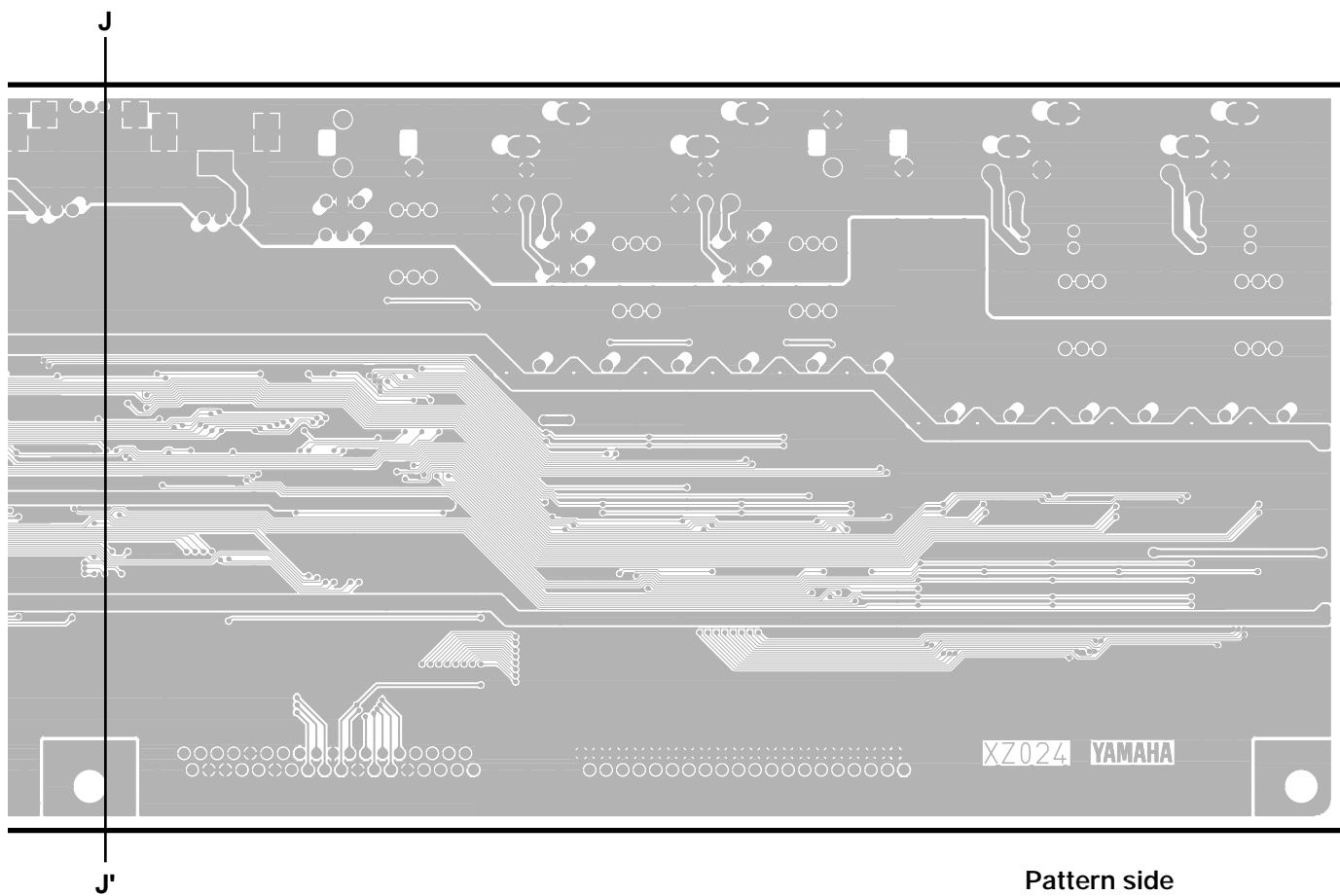


to BRG-CN014

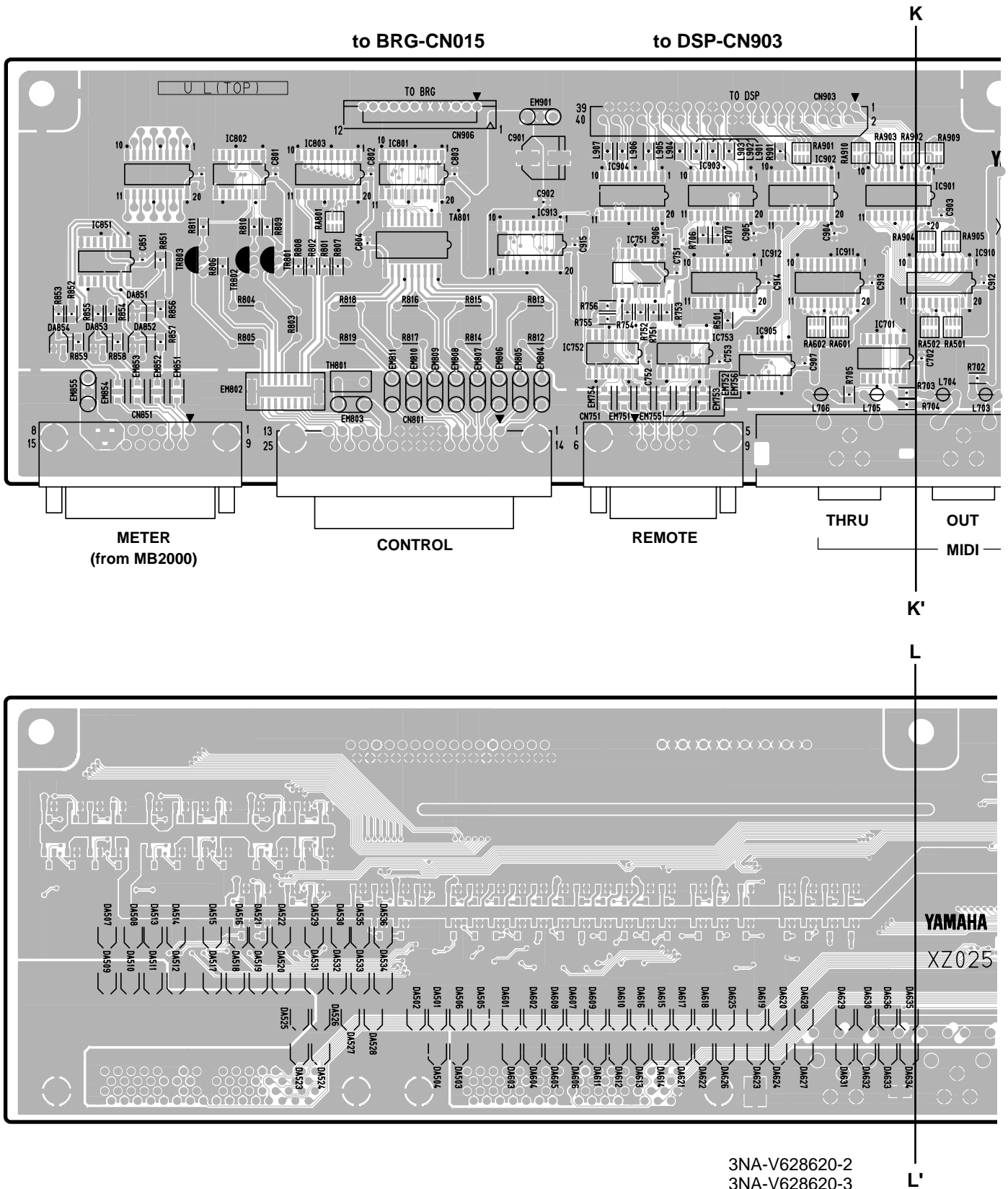
Component side

• JK1 Circuit Board

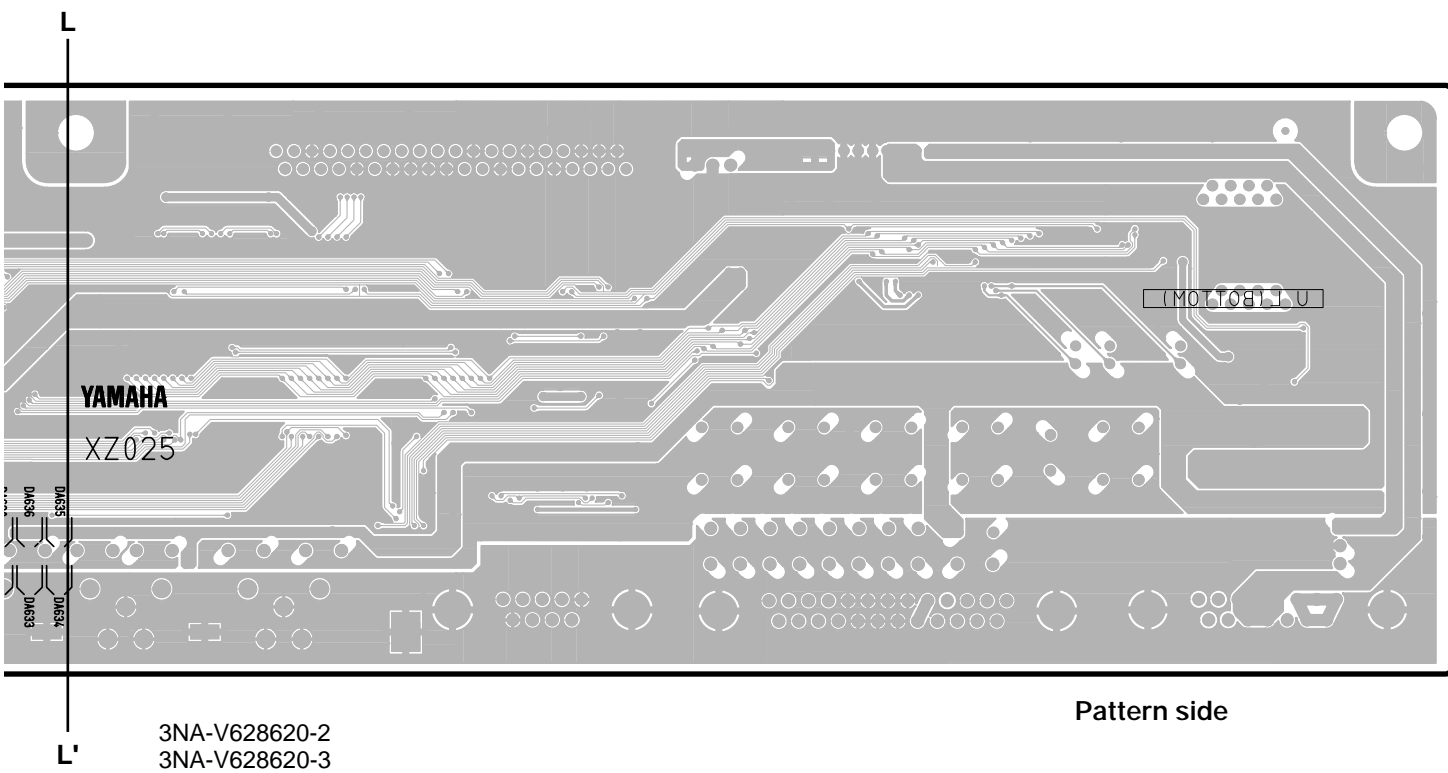
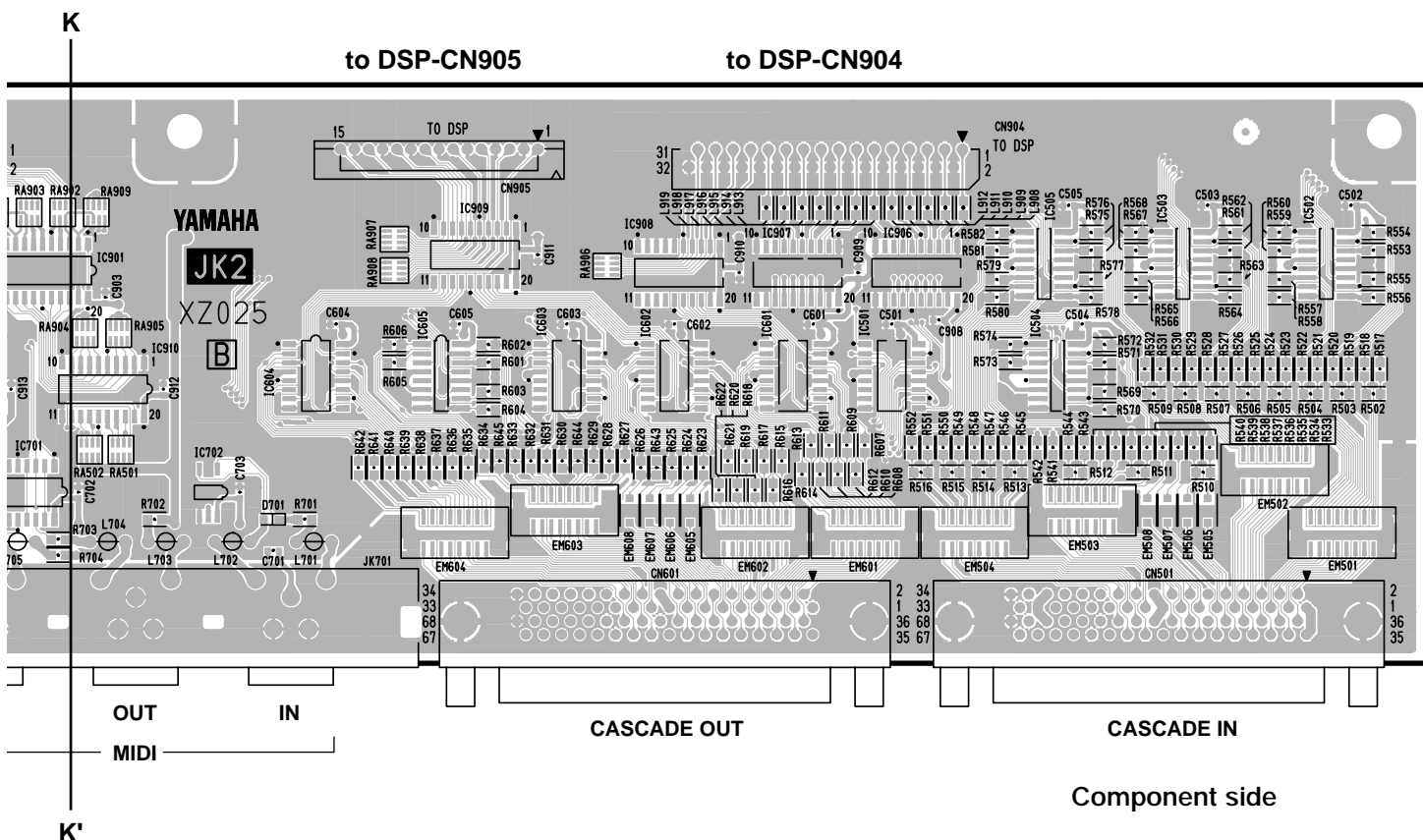




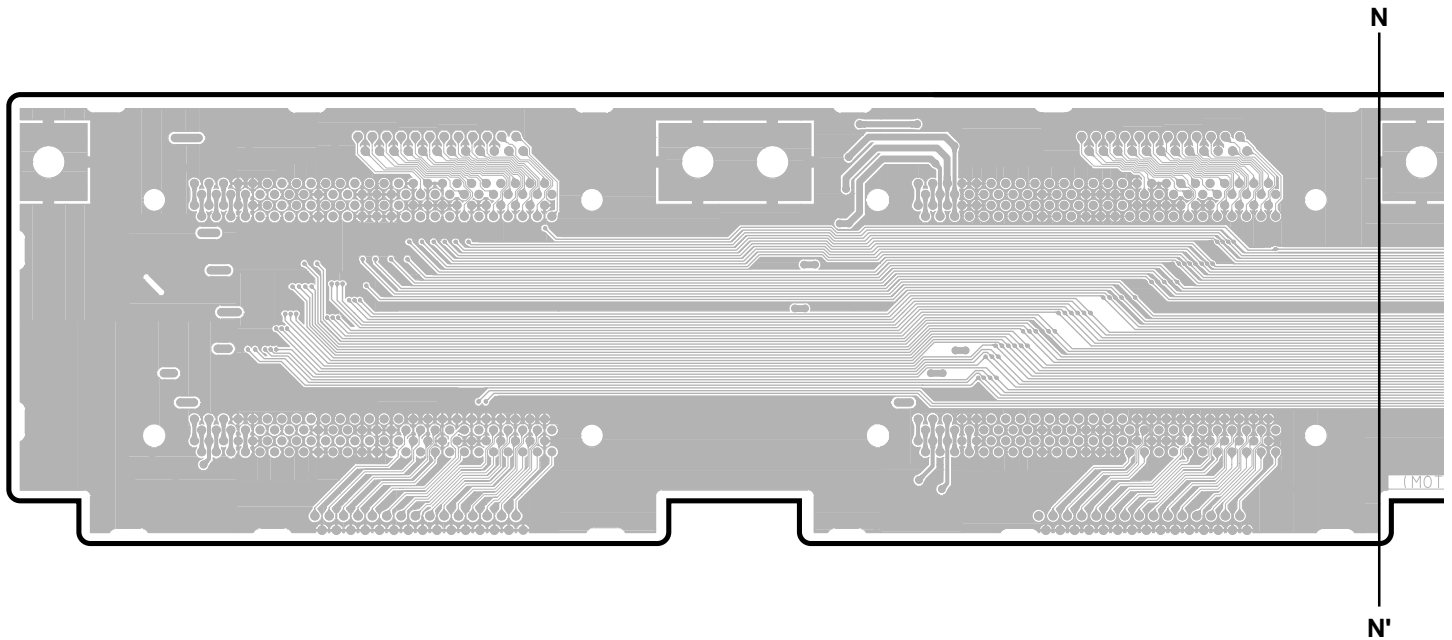
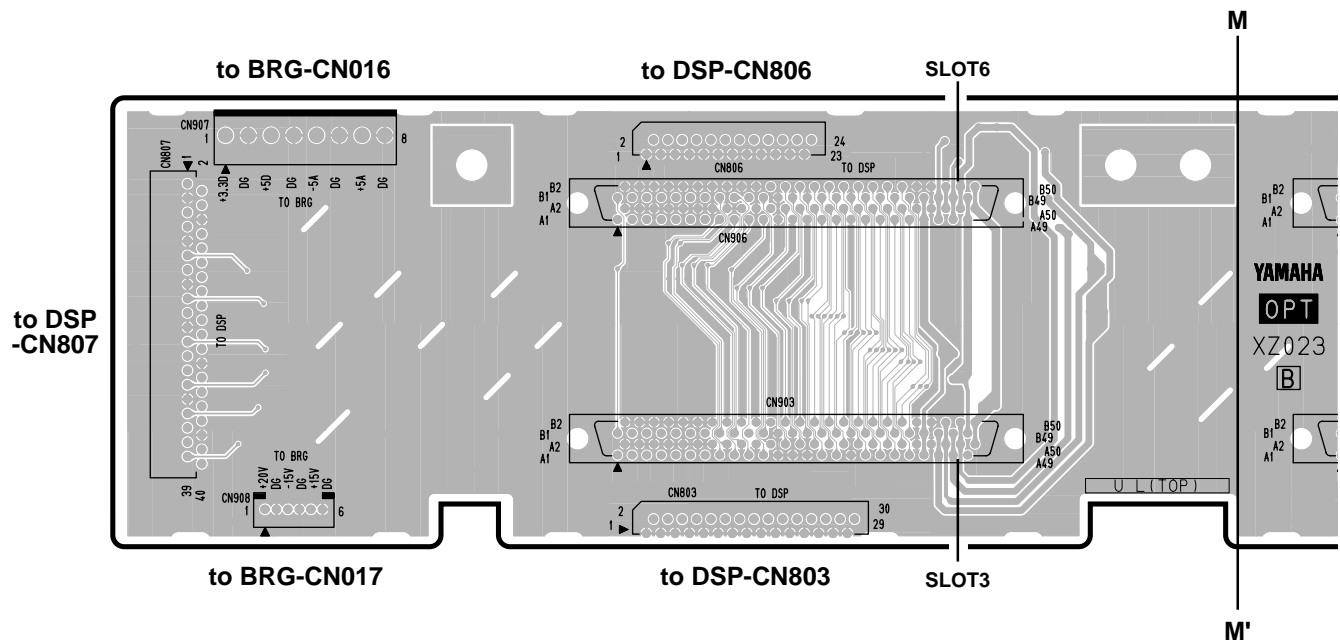
• JK2 Circuit Board

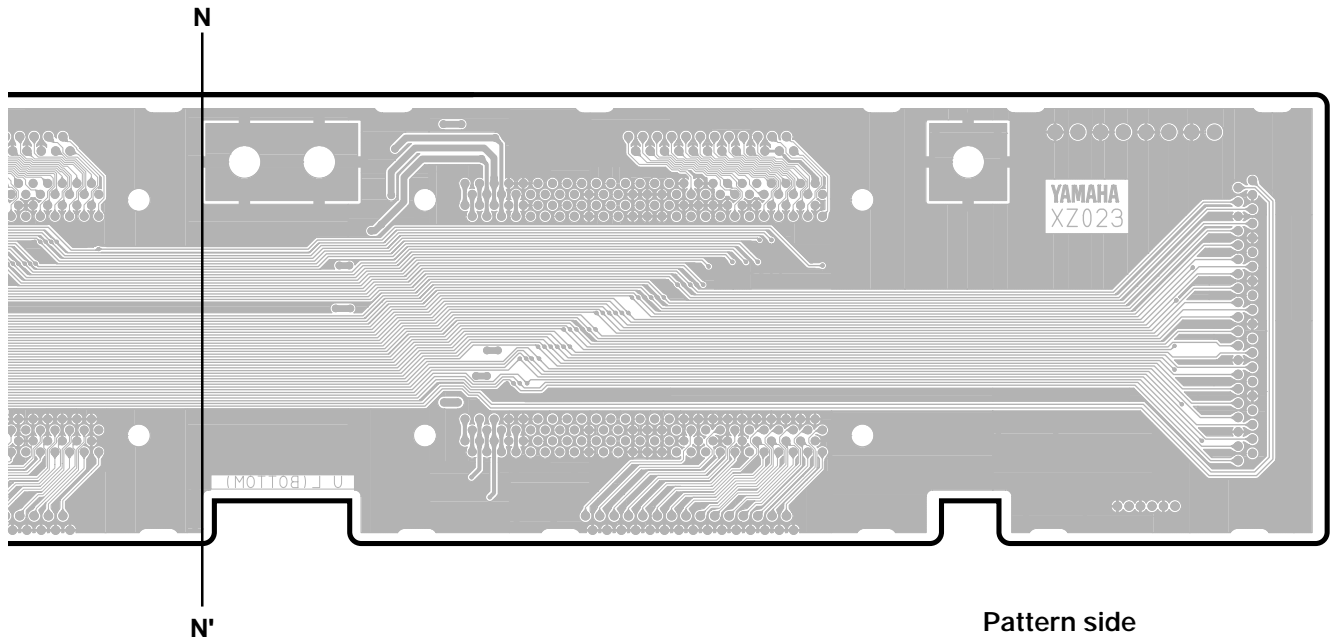
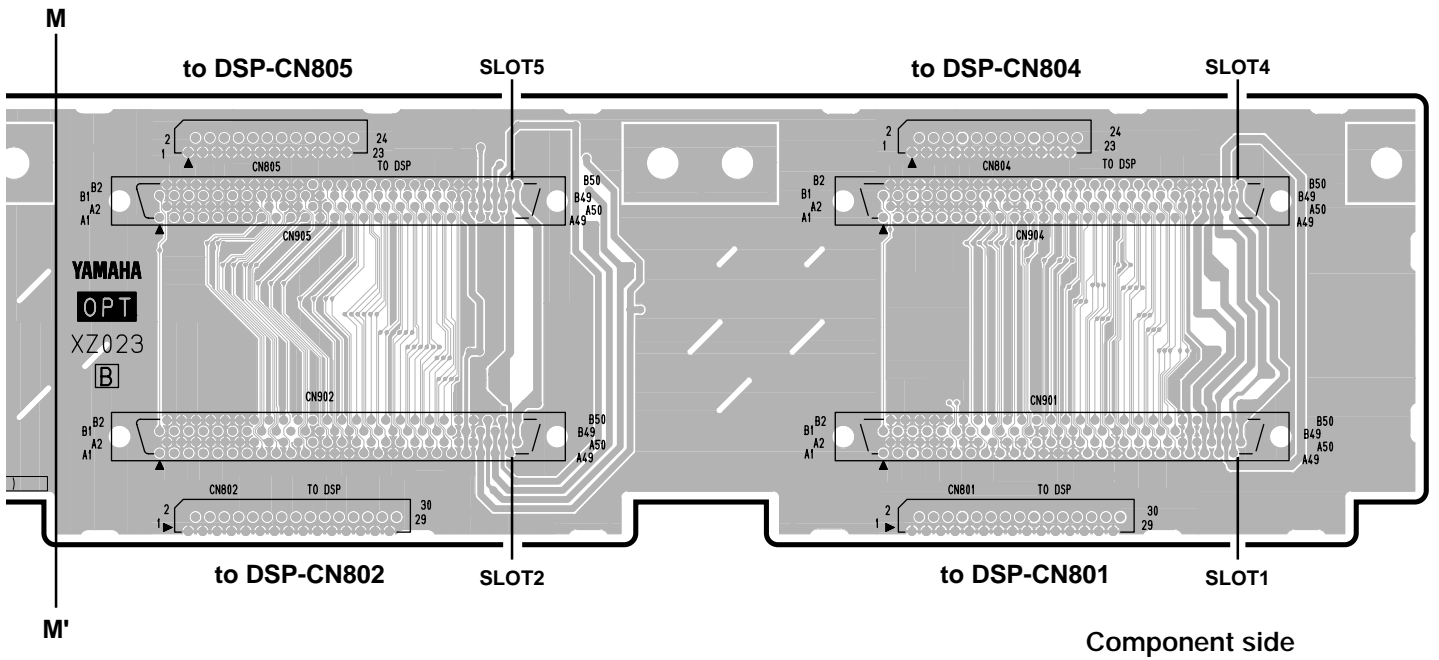


3NA-V628620-2
3NA-V628620-3



• OPTCircuit Board

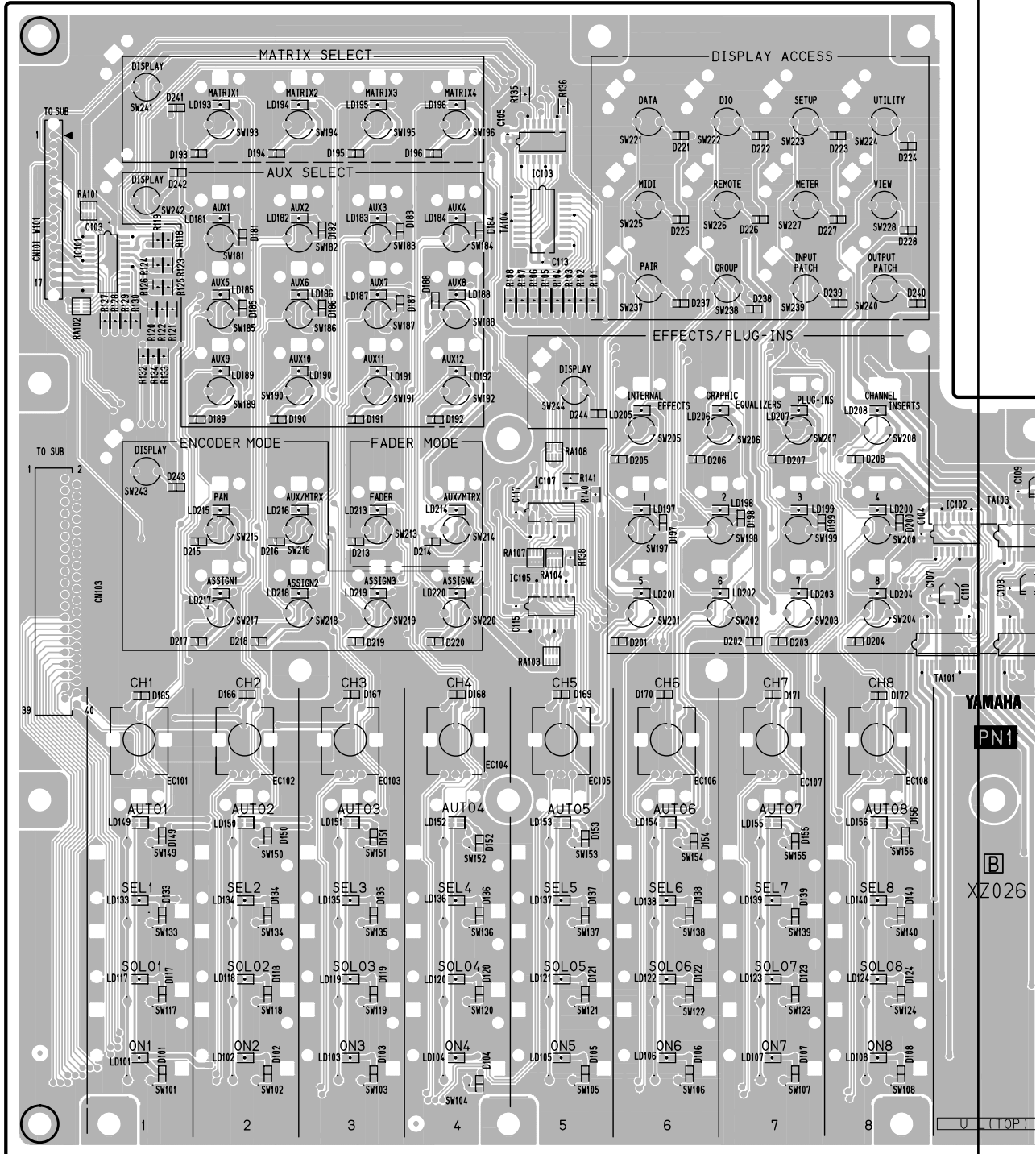




• PN1 Circuit Board

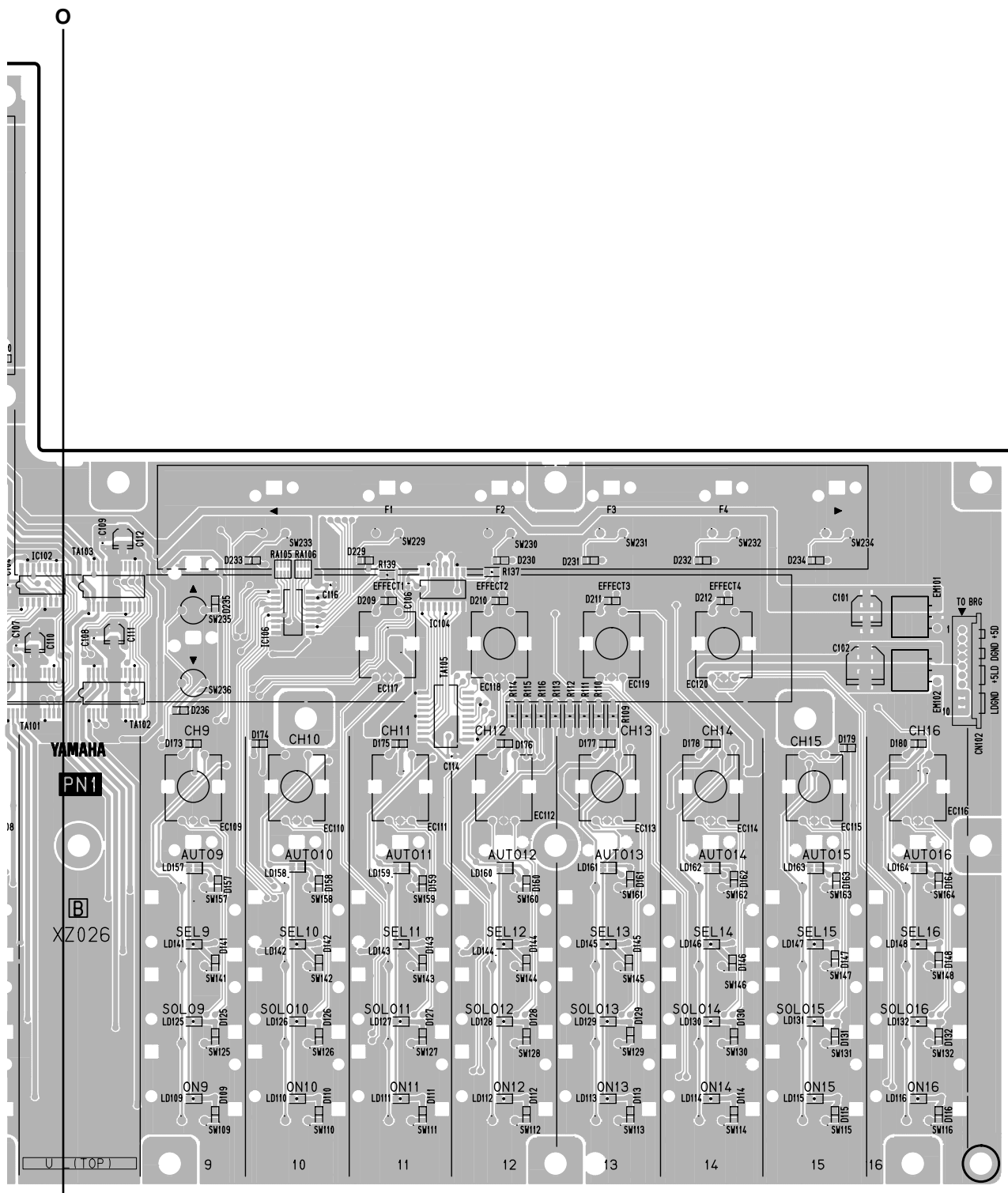
to SUB
-CN115

to SUB
-CN111



YAMAHA
PN1

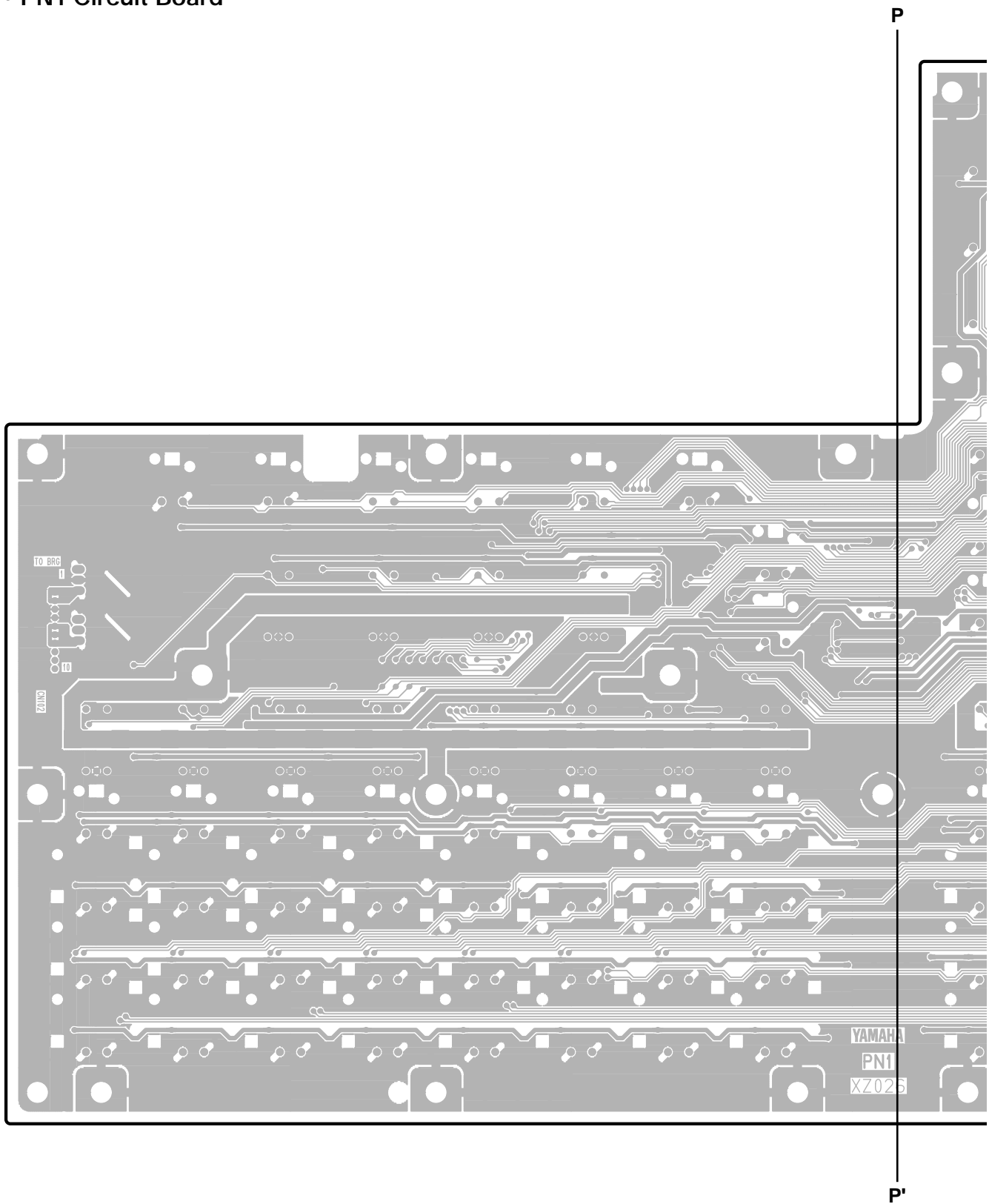
XZ026

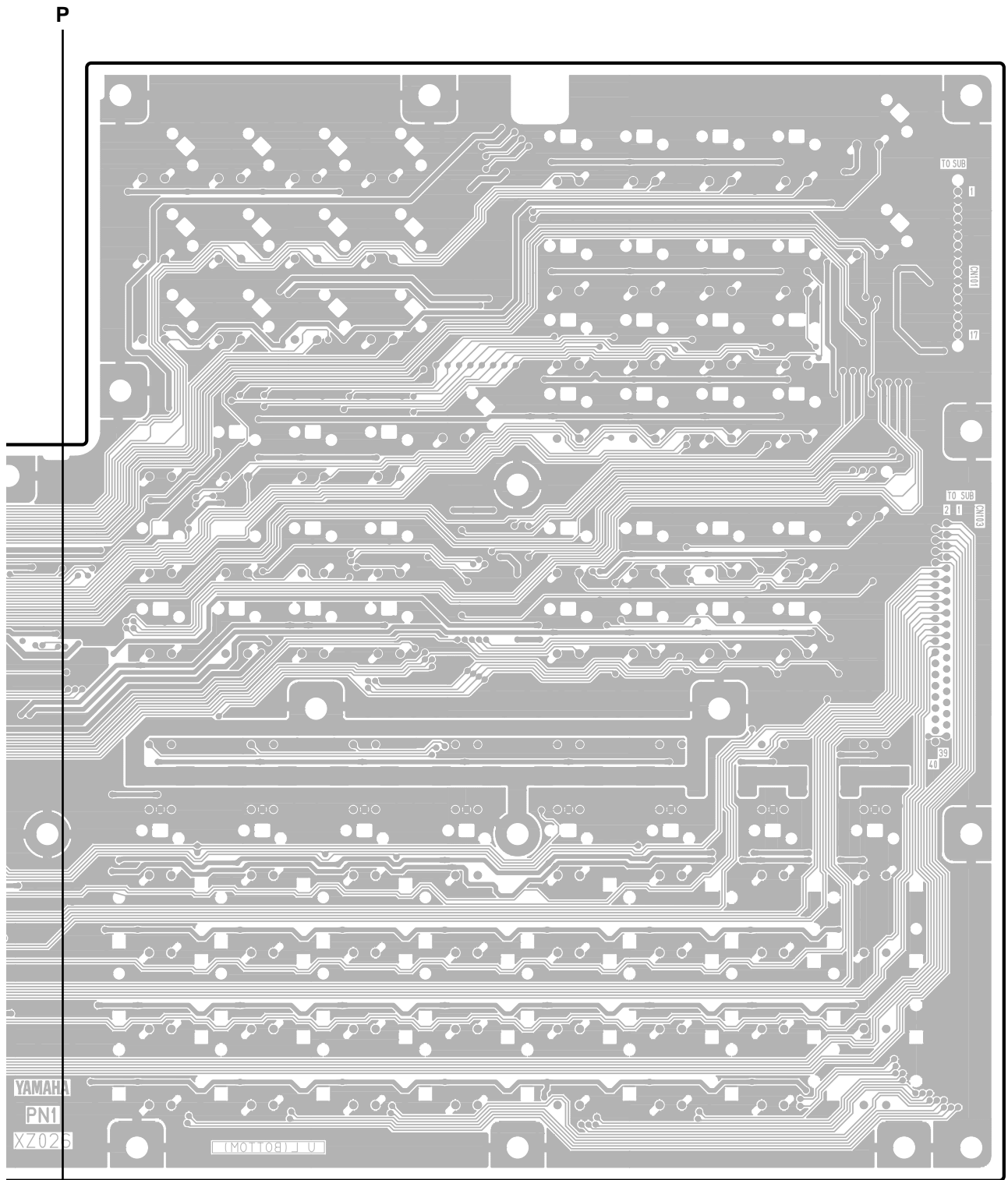


to BRG
-CN019

Component side

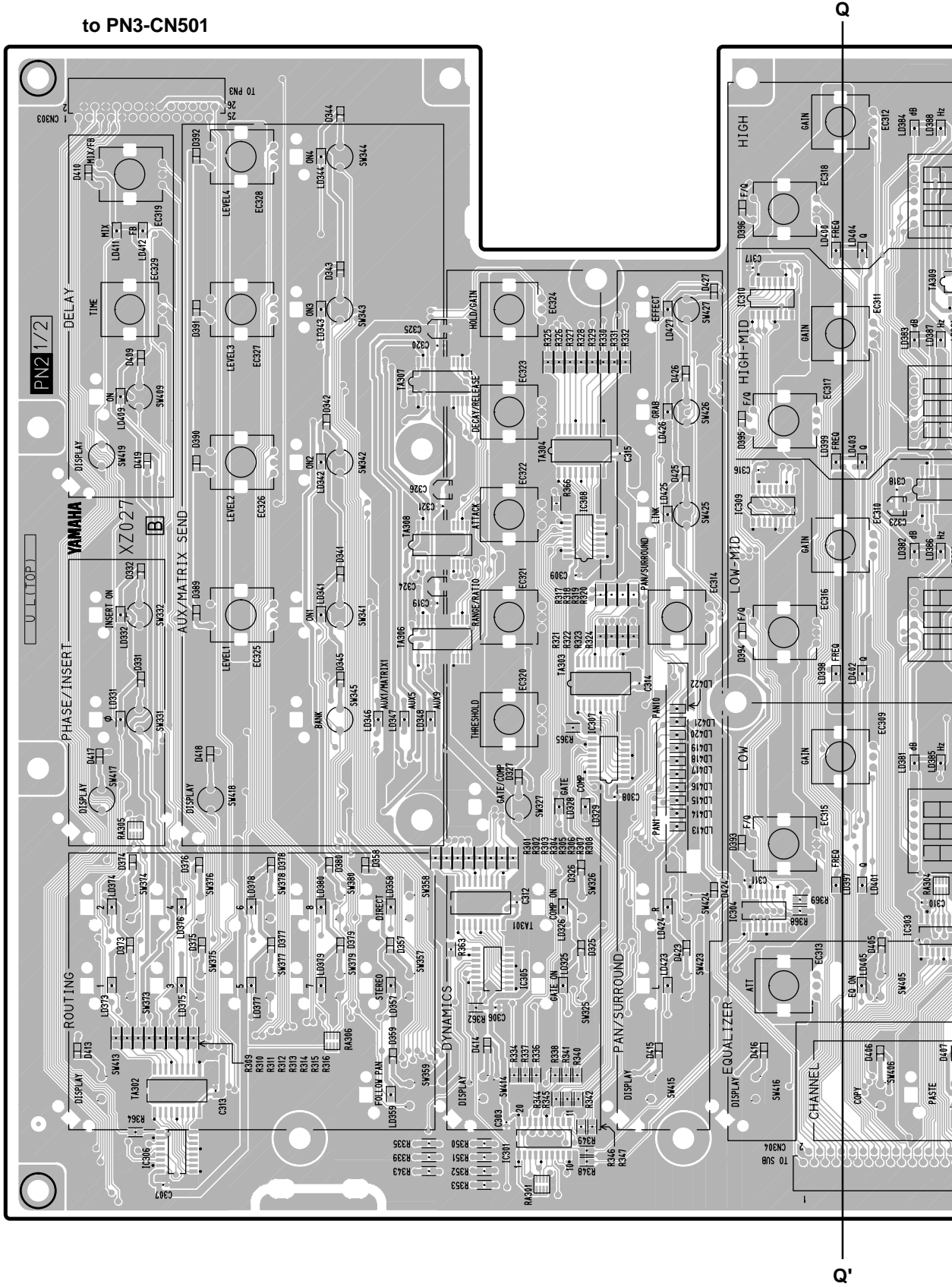
• PN1 Circuit Board

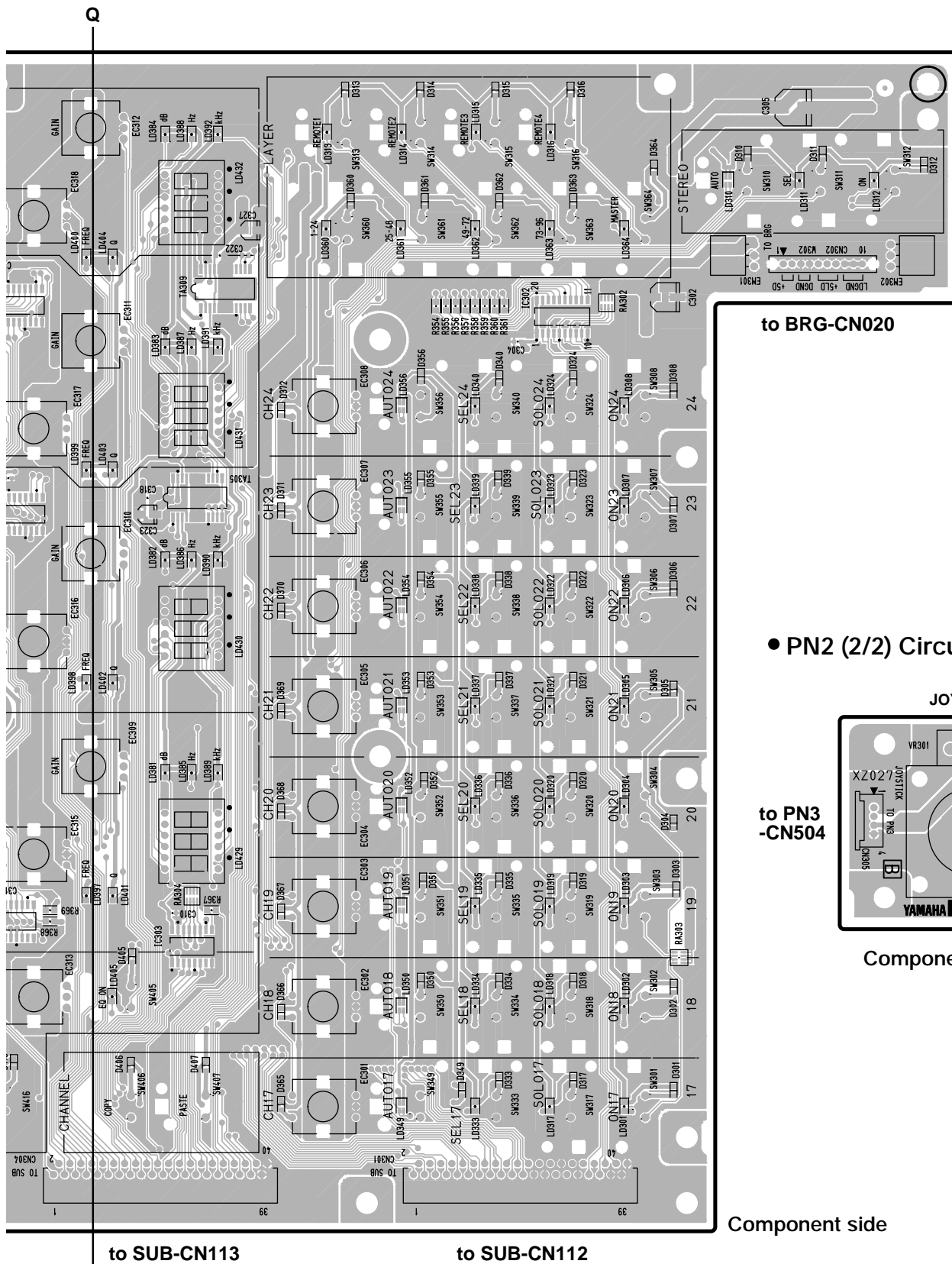




Pattern side

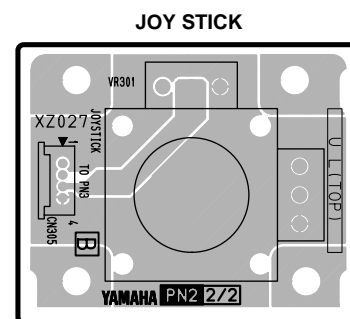
• PN2 (1/2) Circuit Board





to BRG-CN020

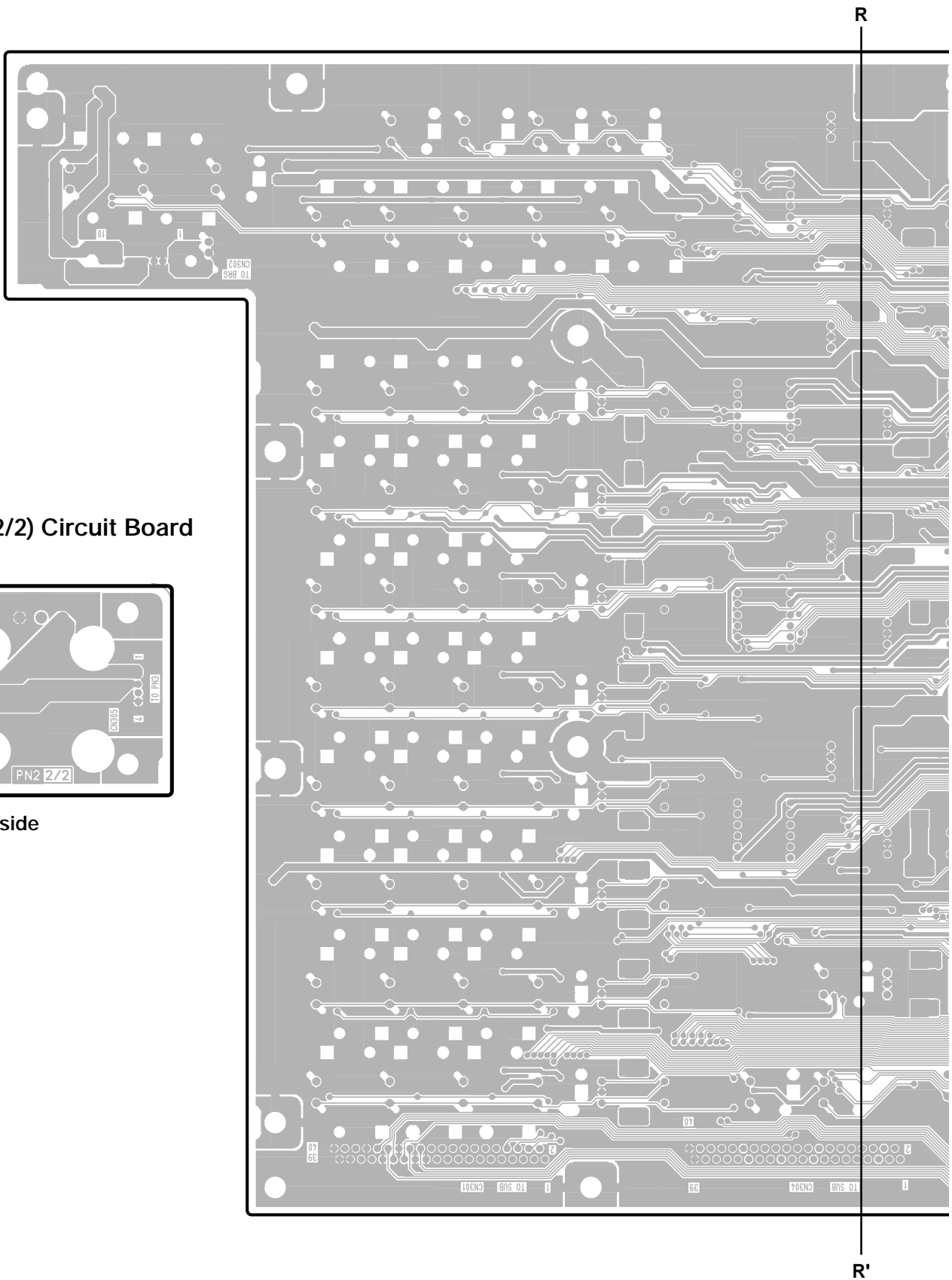
● PN2 (2/2) Circuit Board



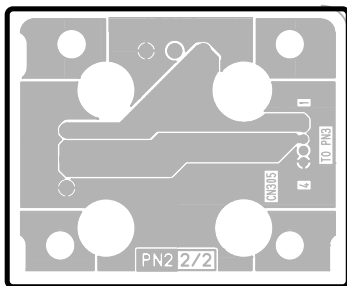
to PN3-CN504

Component side

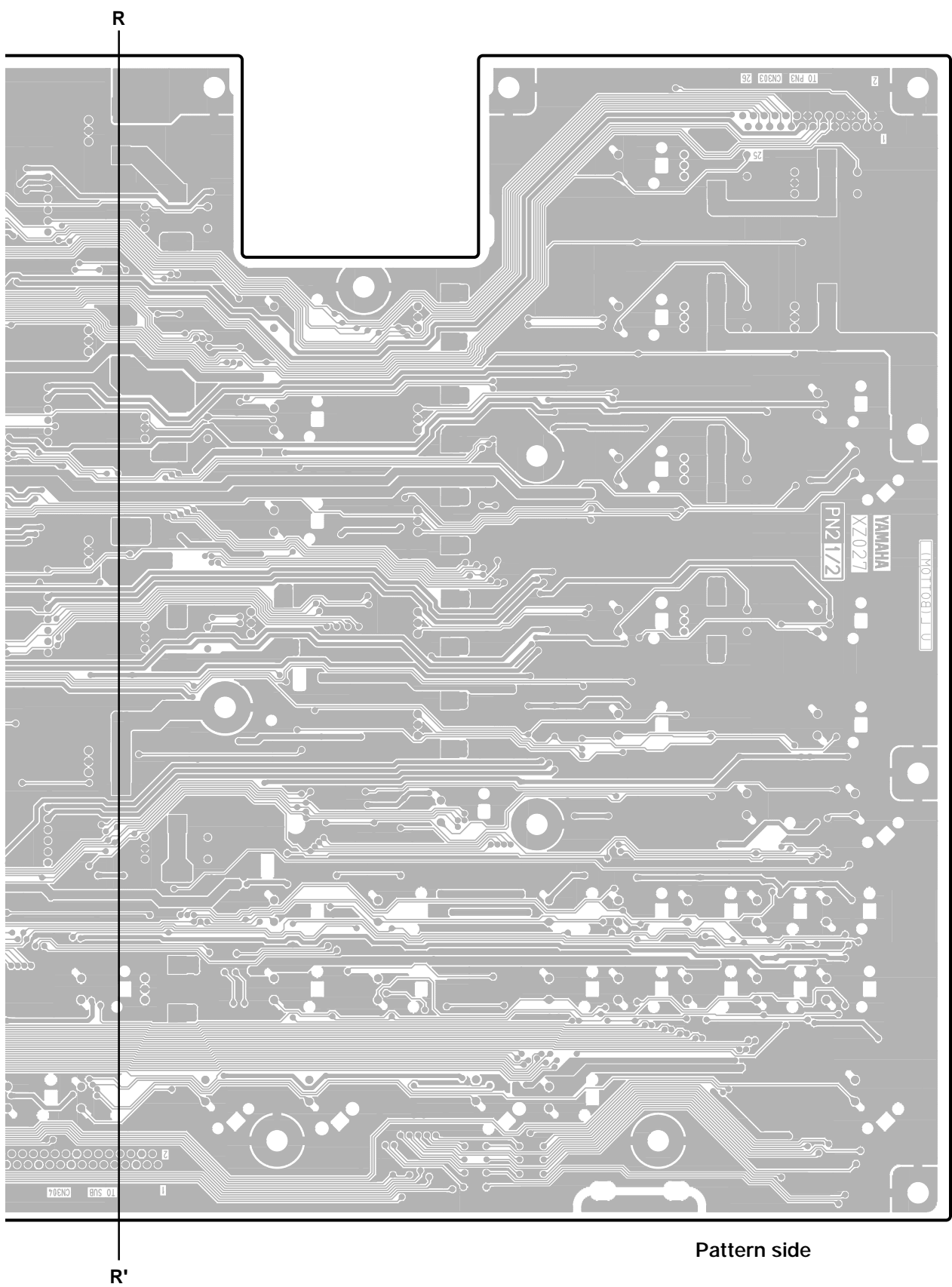
• PN2 (1/2) Circuit Board



• PN2 (2/2) Circuit Board

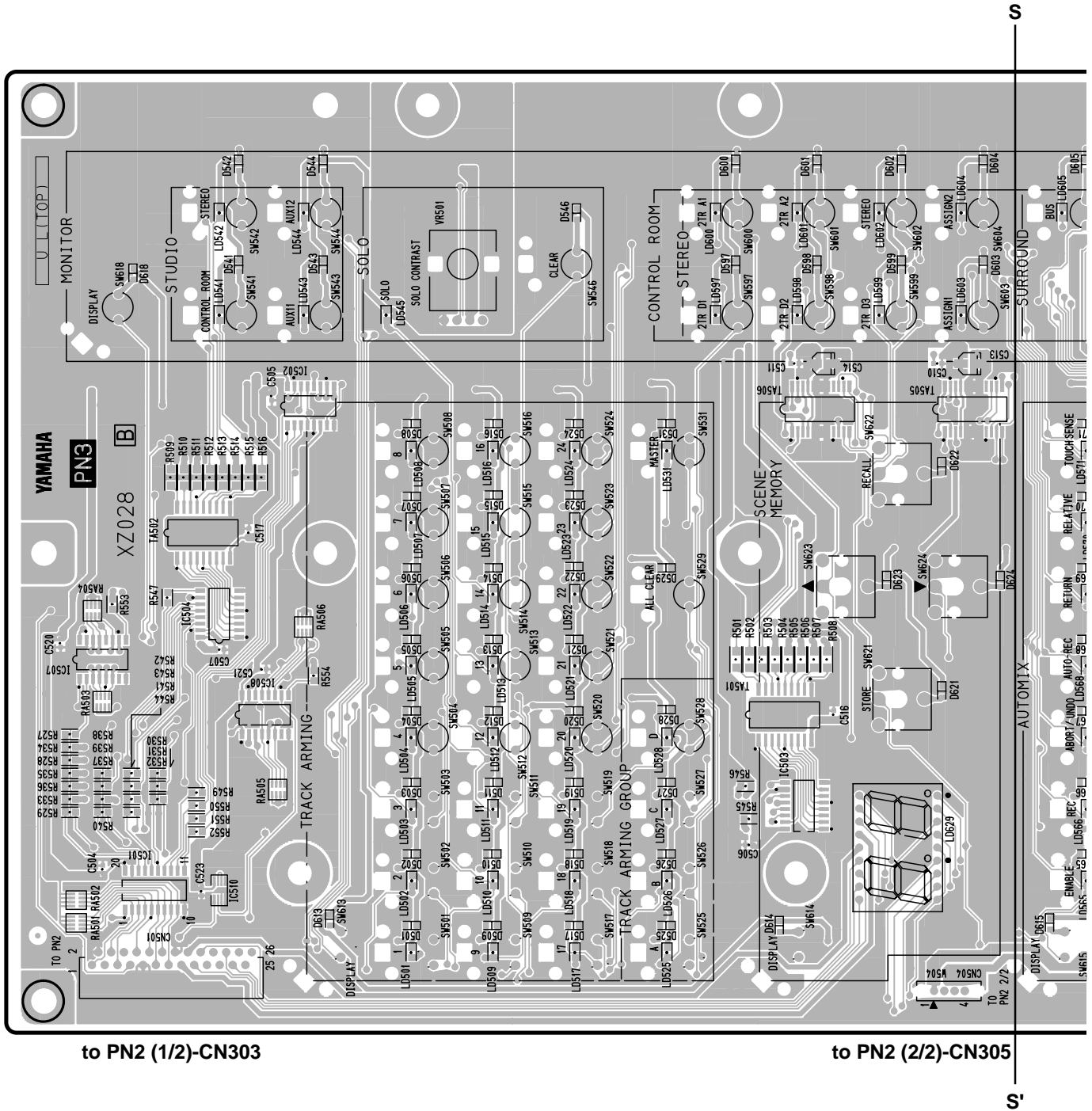


Pattern side



3NA-V628640-2 ▲

● PN3 Circuit Board



to PN2 (1/2)-CN303

to PN2 (2/2)-CN305

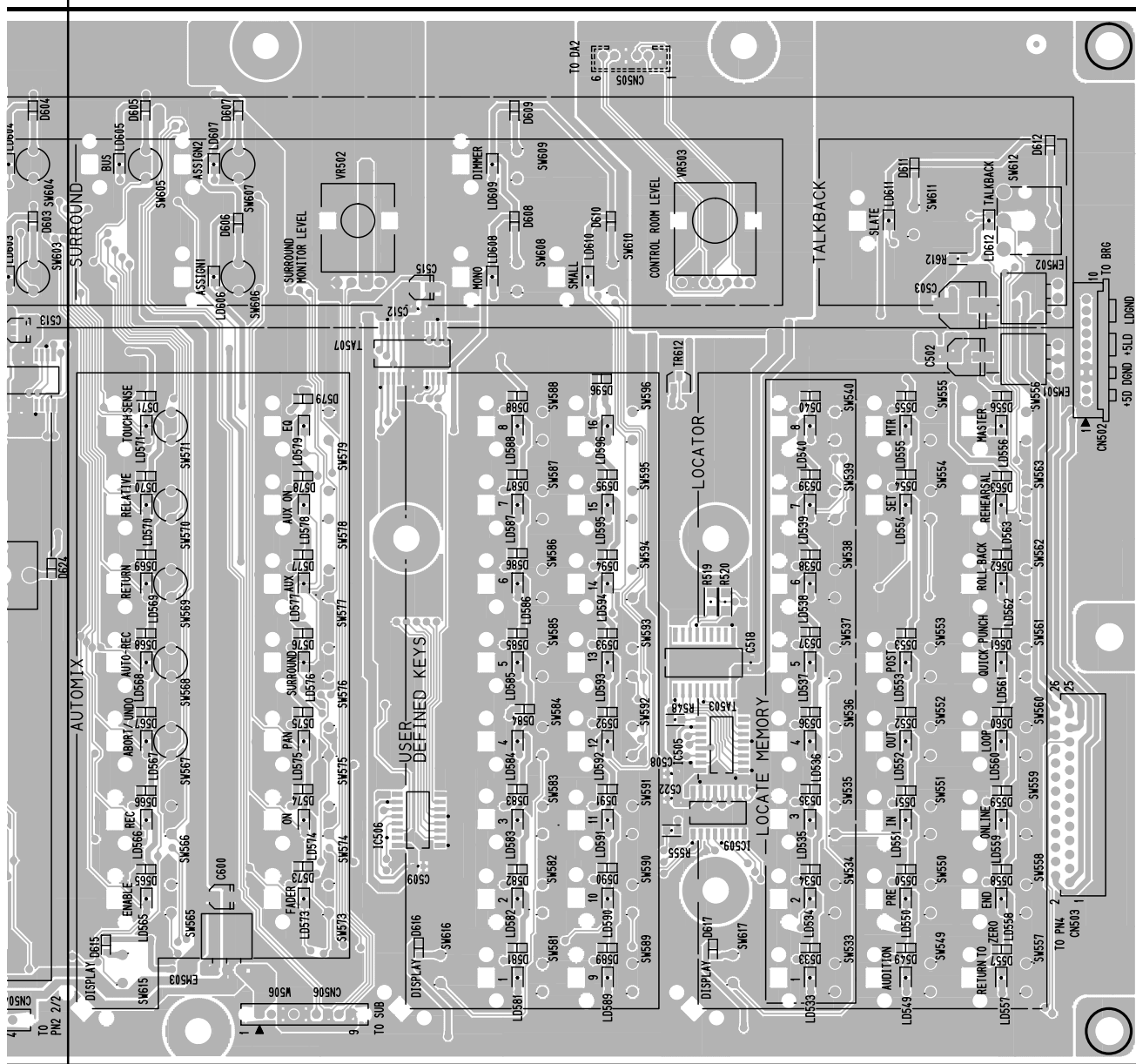
5

5'

to DA2-CN100

to BRG -CN021

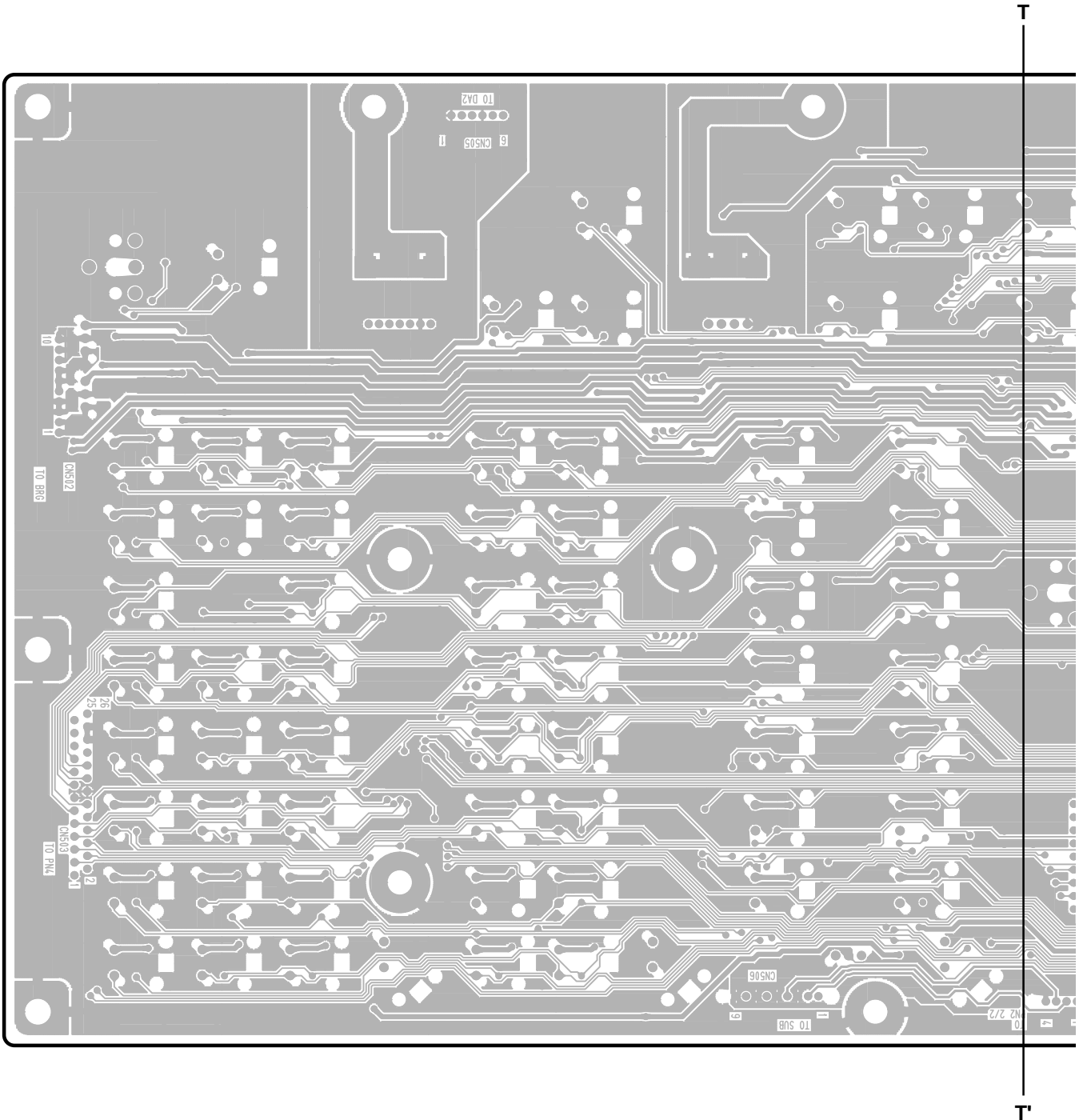
to PN4 (1/2) -CN701

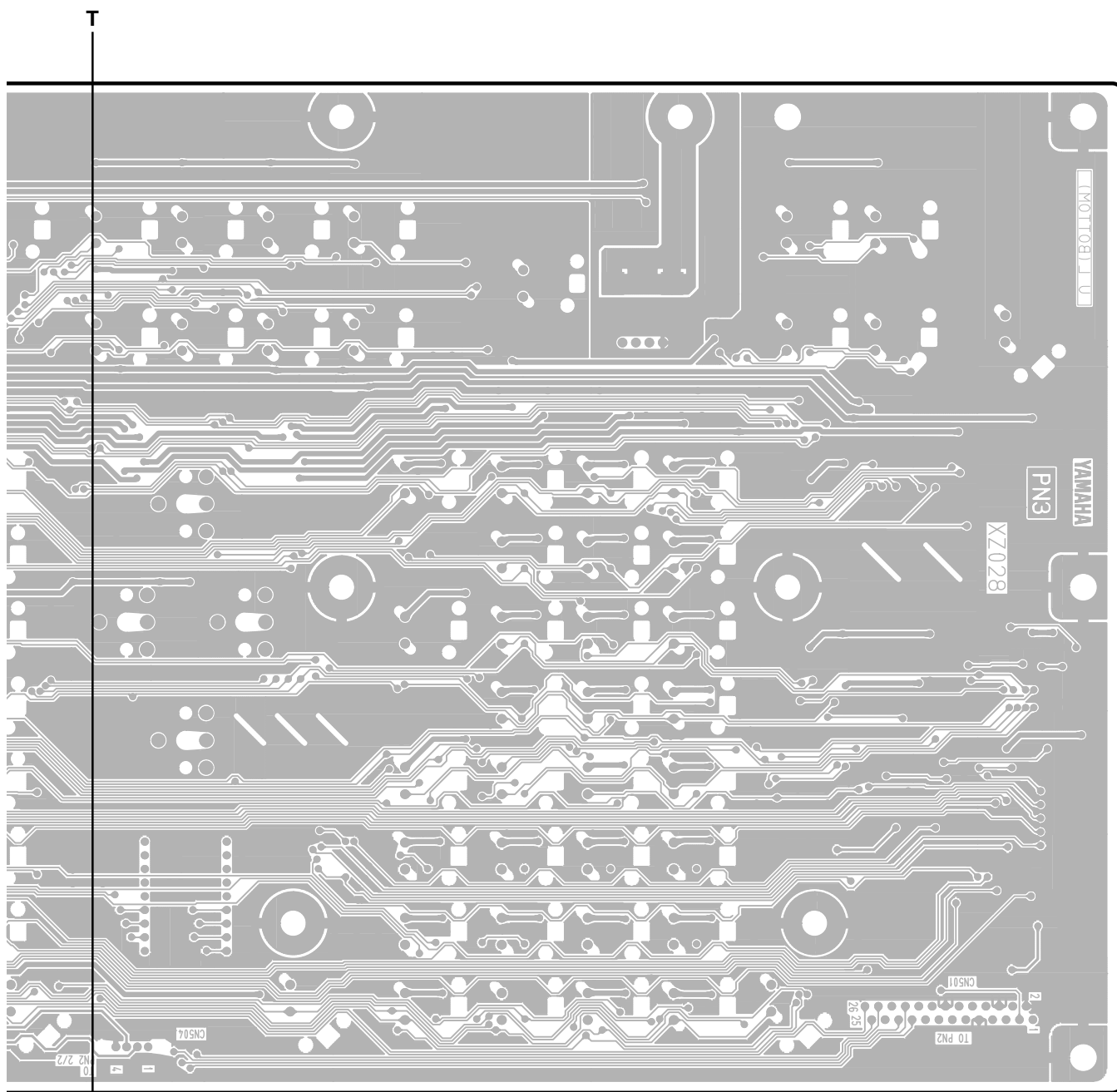


to SUB-CN114

Component side

• PN3 Circuit Board

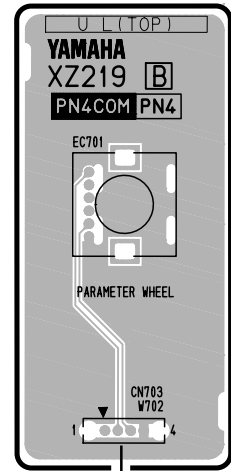
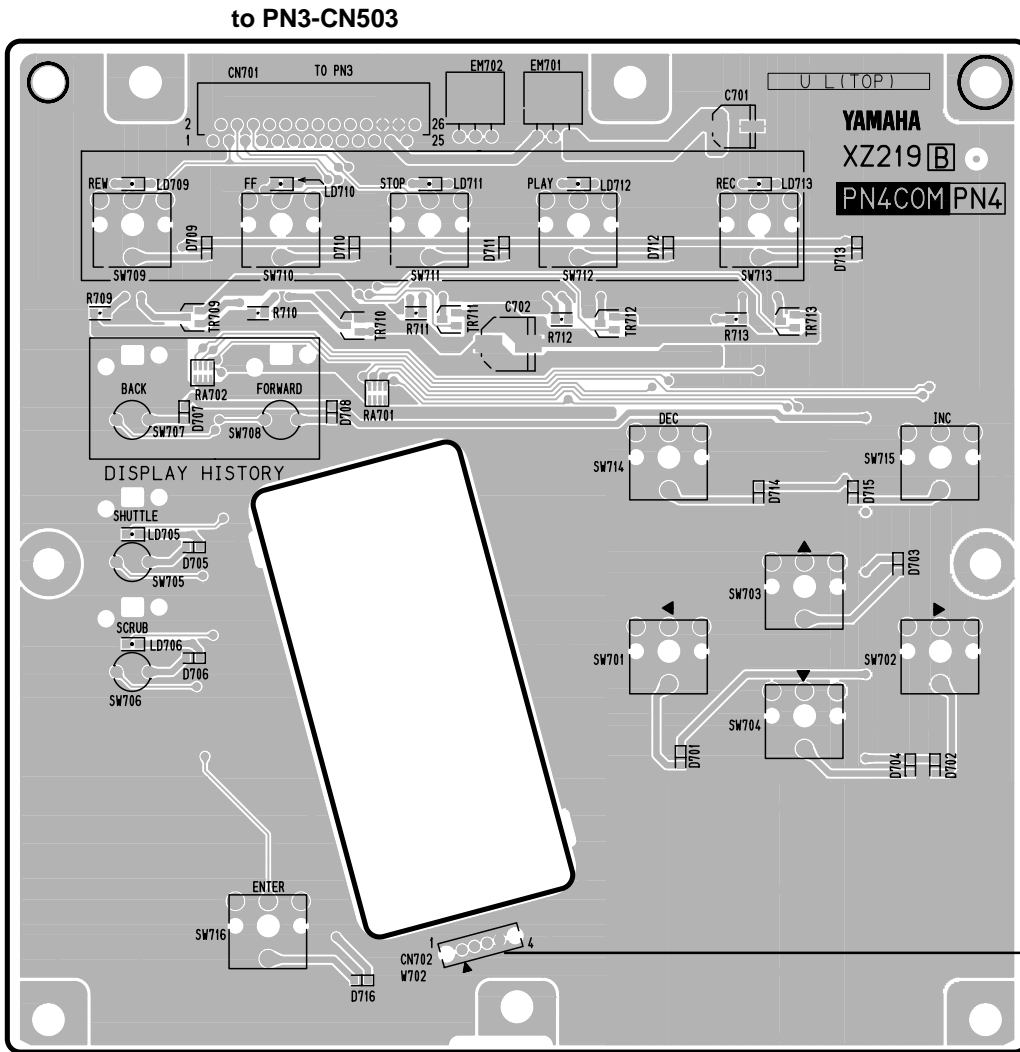




Pattern side

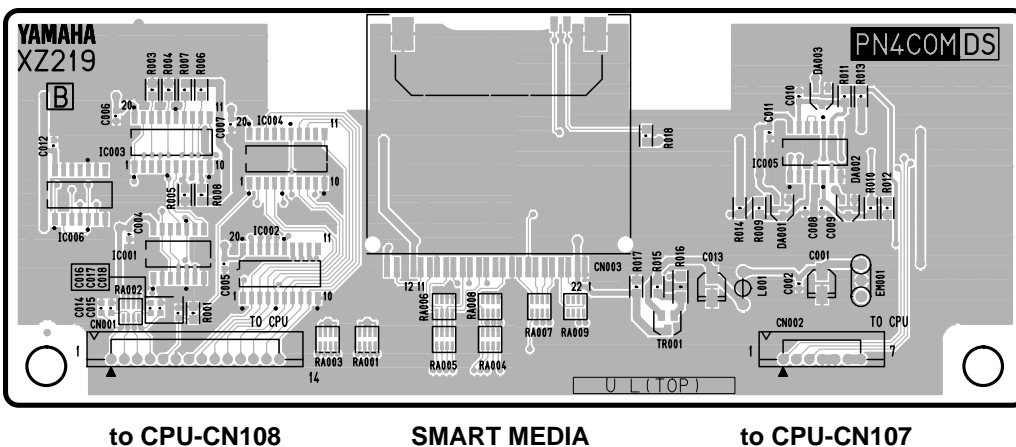
● PN4COM (PN4 (1/2)) Circuit Board

● PN4COM (PN4 (2/2)) Circuit Board



Component side

● PN4COM (DS) Circuit Board

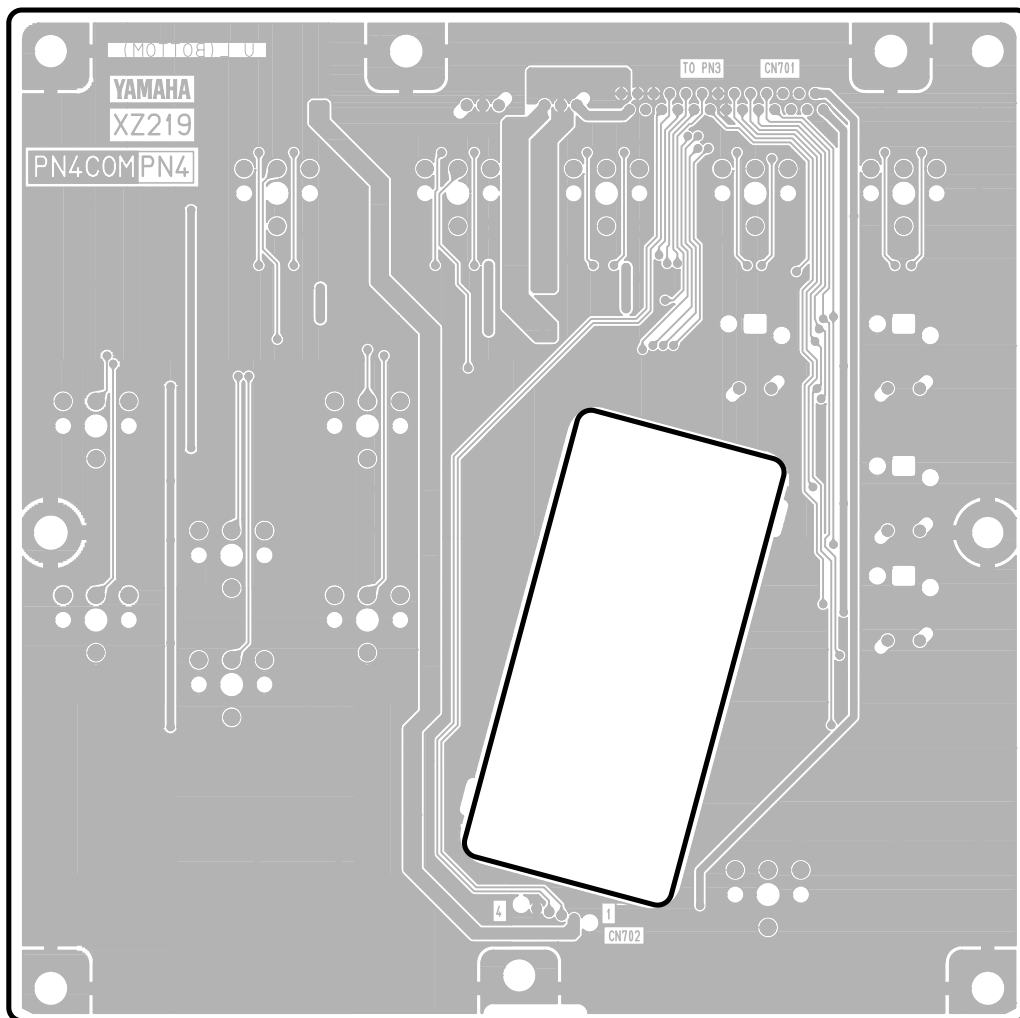


Component side

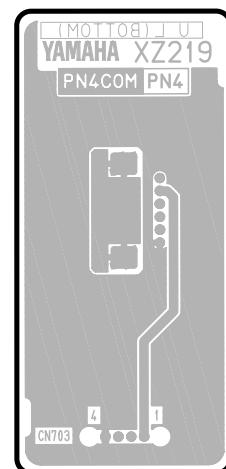
3NA-V830050-2 △

● PN4COM (PN4 (1/2)) Circuit Board

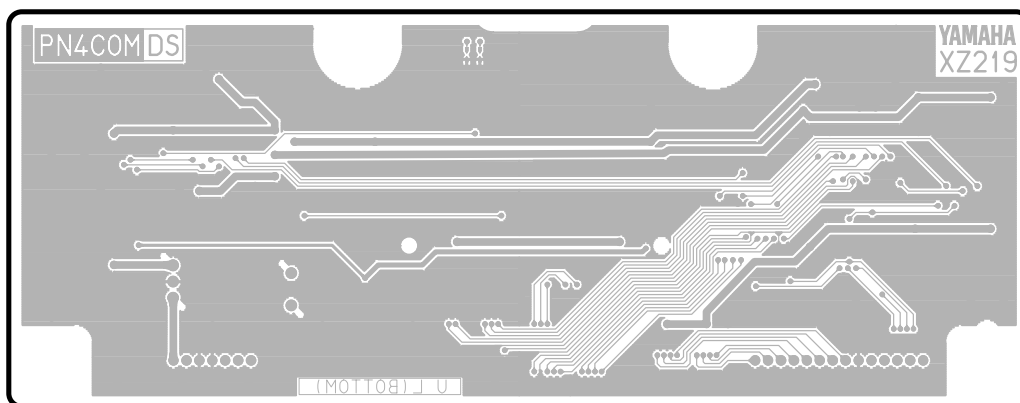
● PN4COM (PN4 (2/2)) Circuit Board



Pattern side

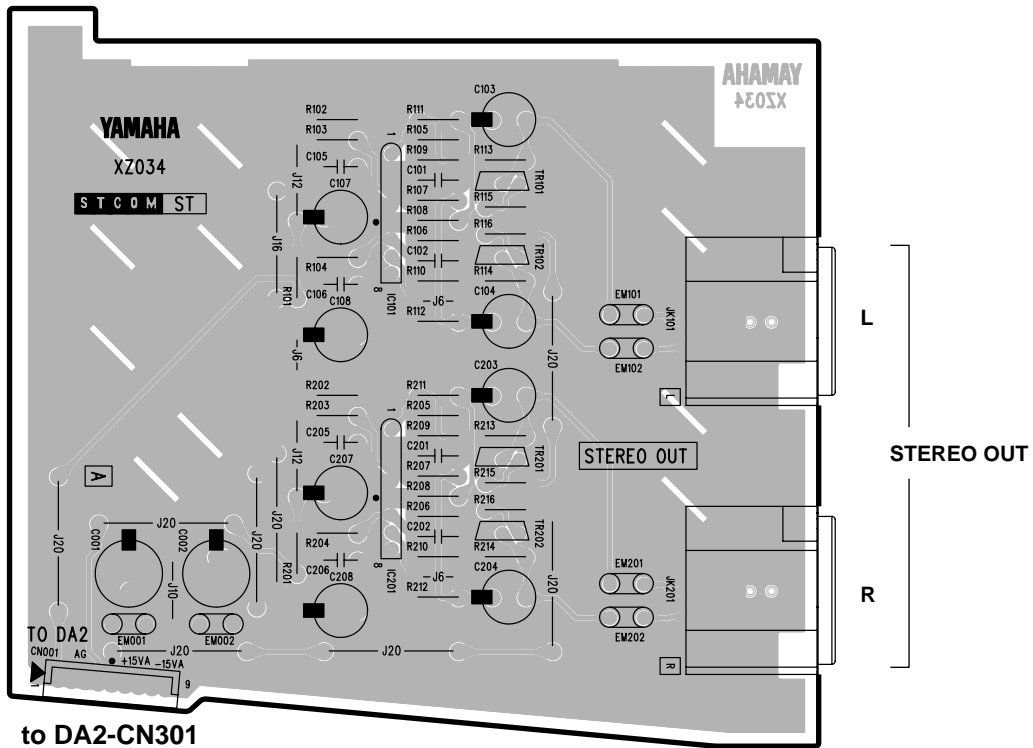


● PN4COM (DS) Circuit Board



Pattern side

• STCOM (ST) Circuit Board



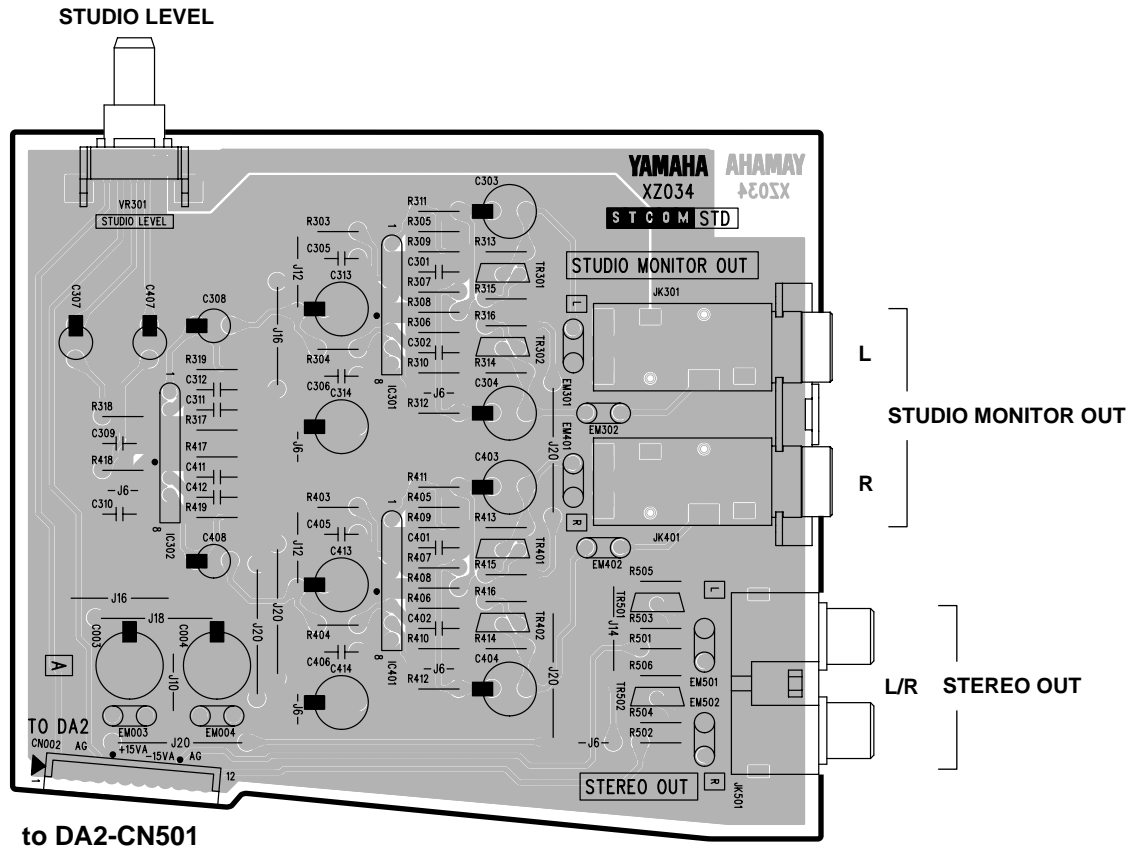
Component side



Pattern side

3NA-V628800-1

• STCOM (STD) Circuit Board

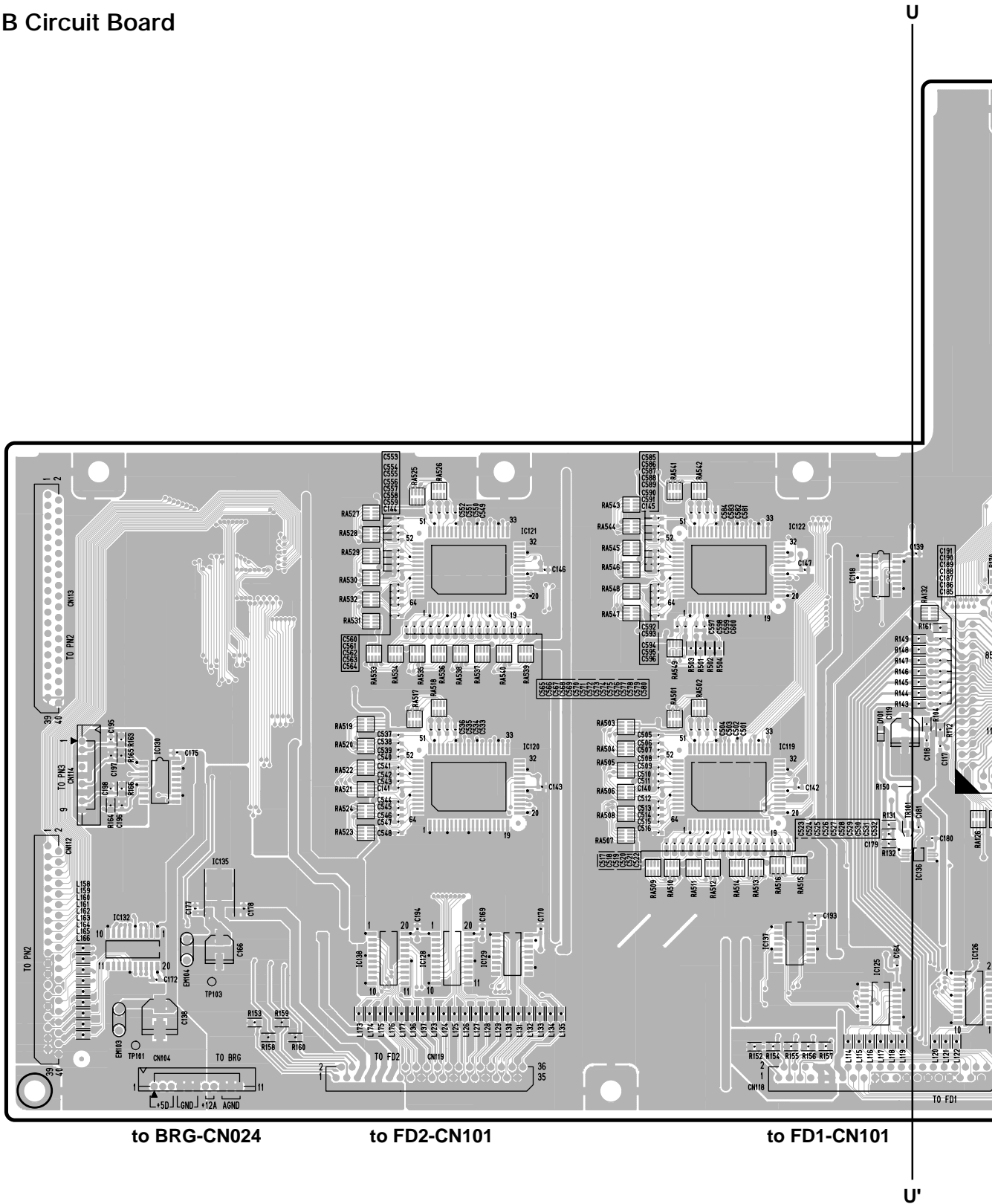


Component side

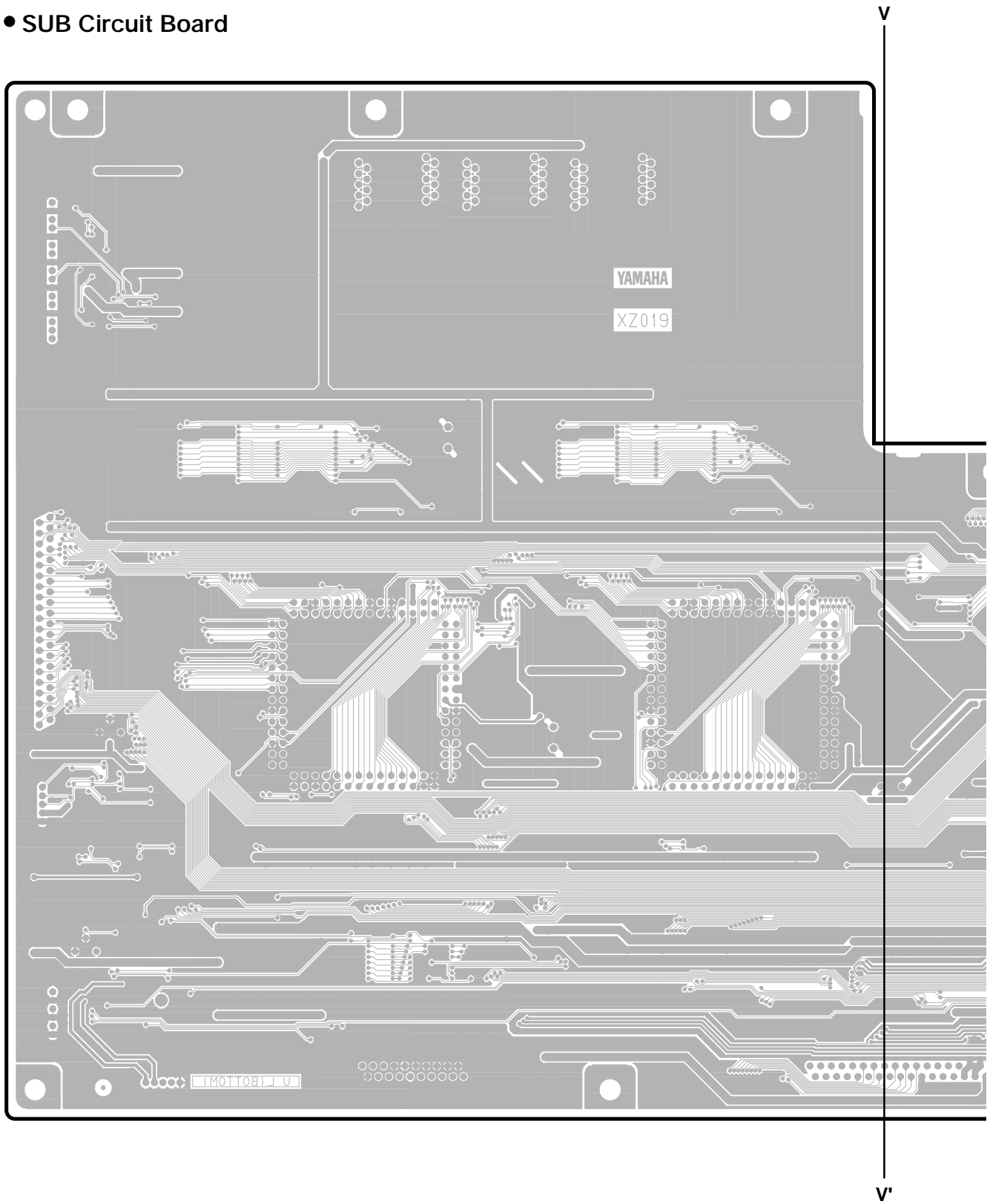


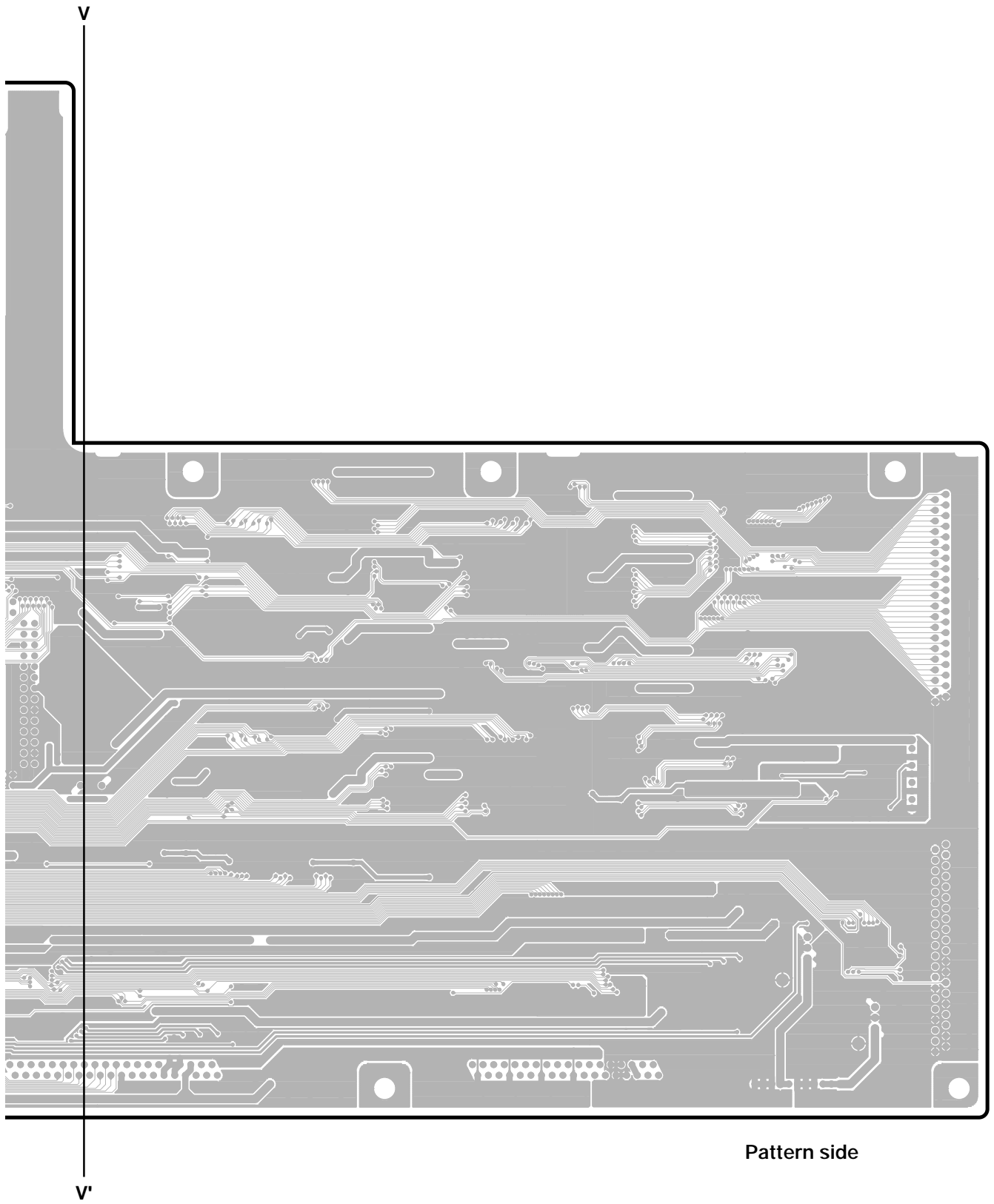
Pattern side

• SUB Circuit Board

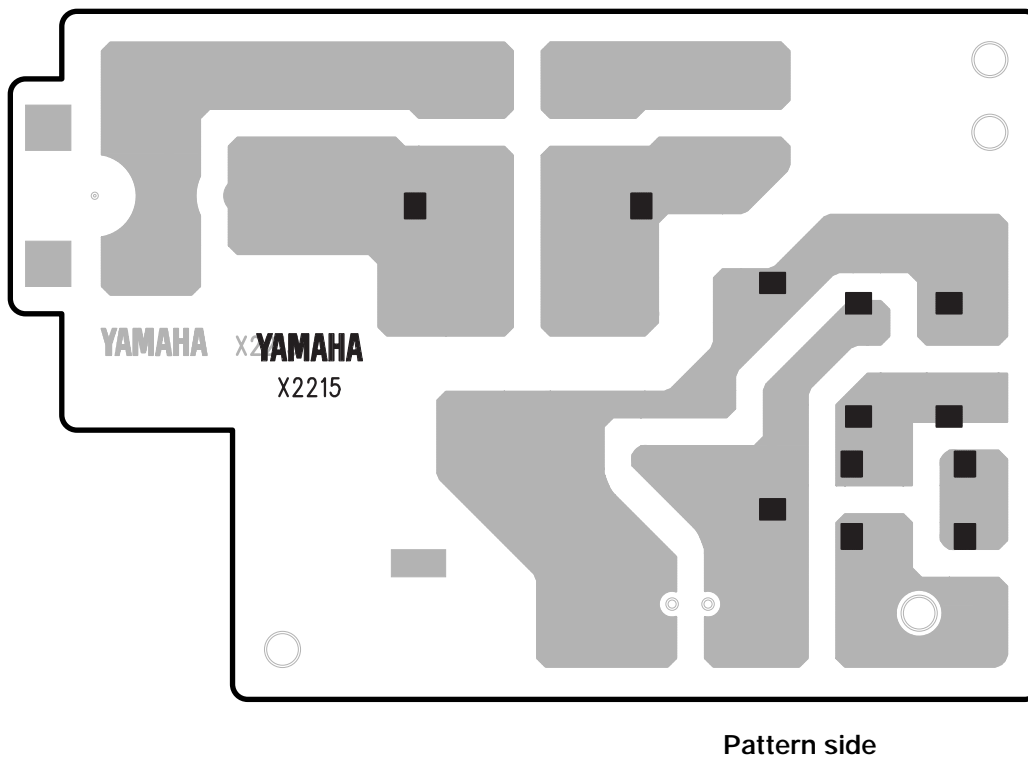
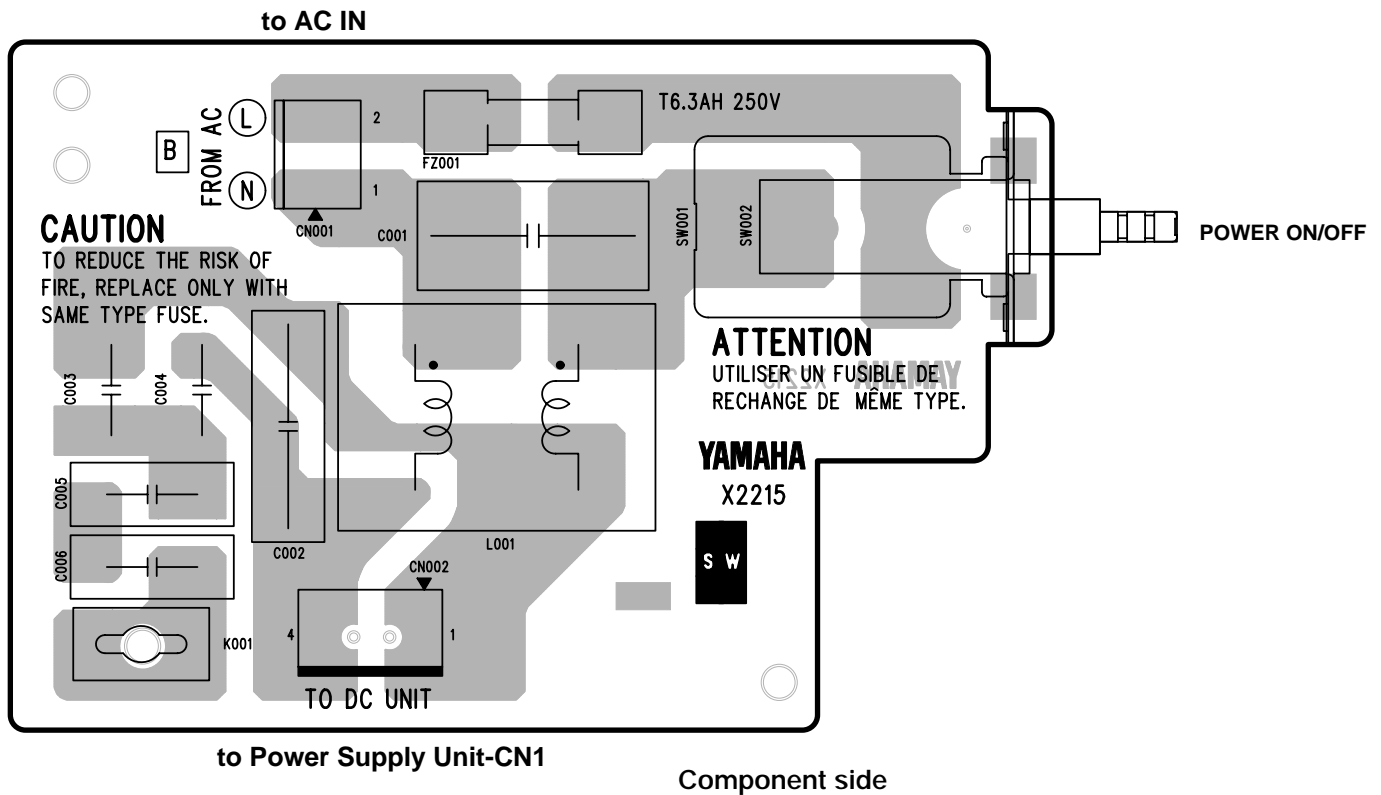


• SUB Circuit Board

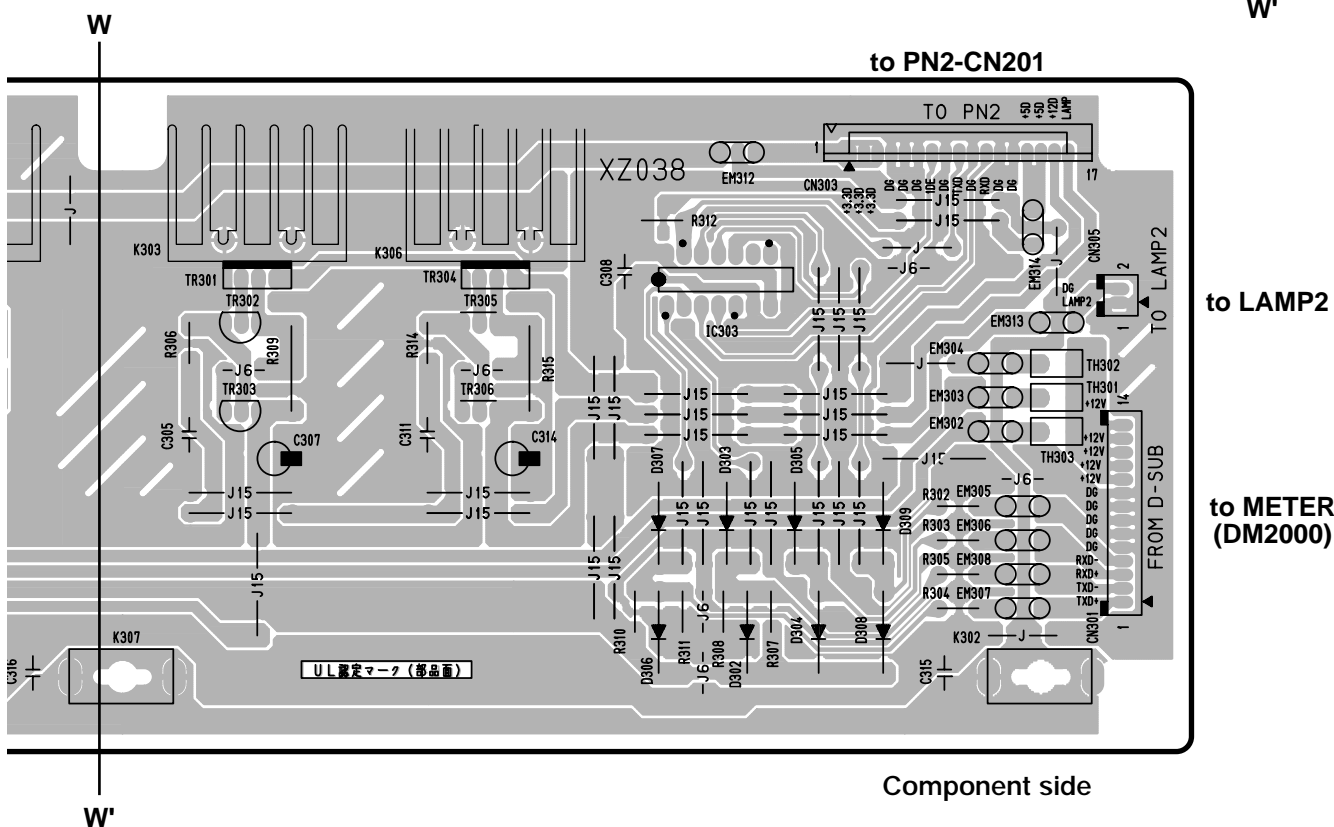
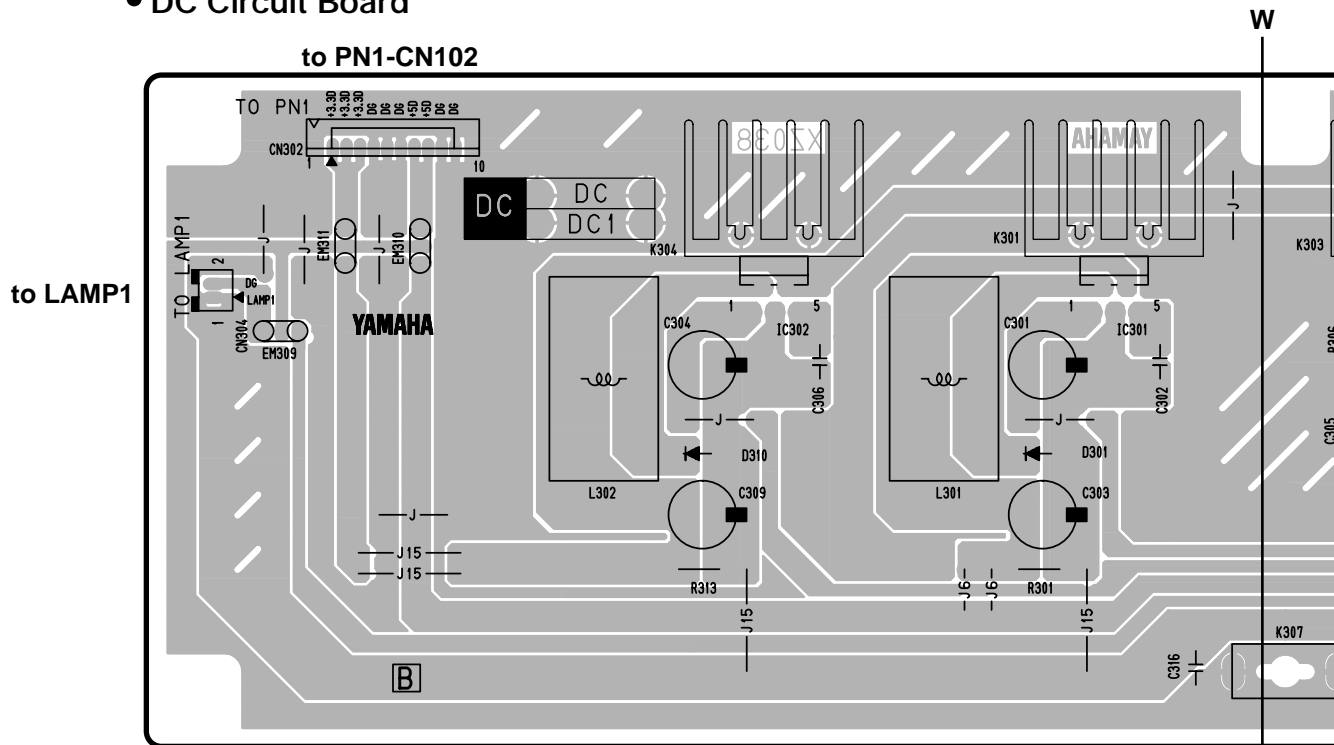




• SW Circuit Board

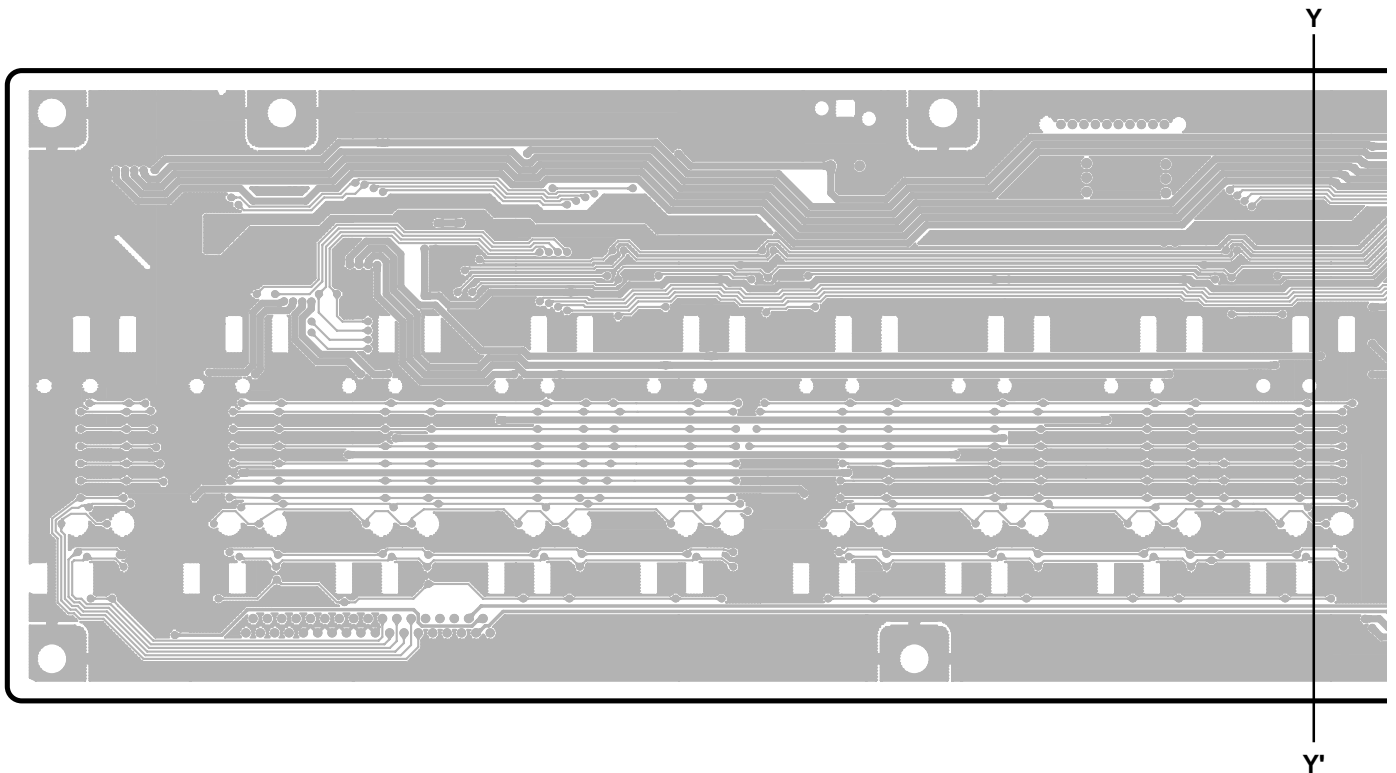
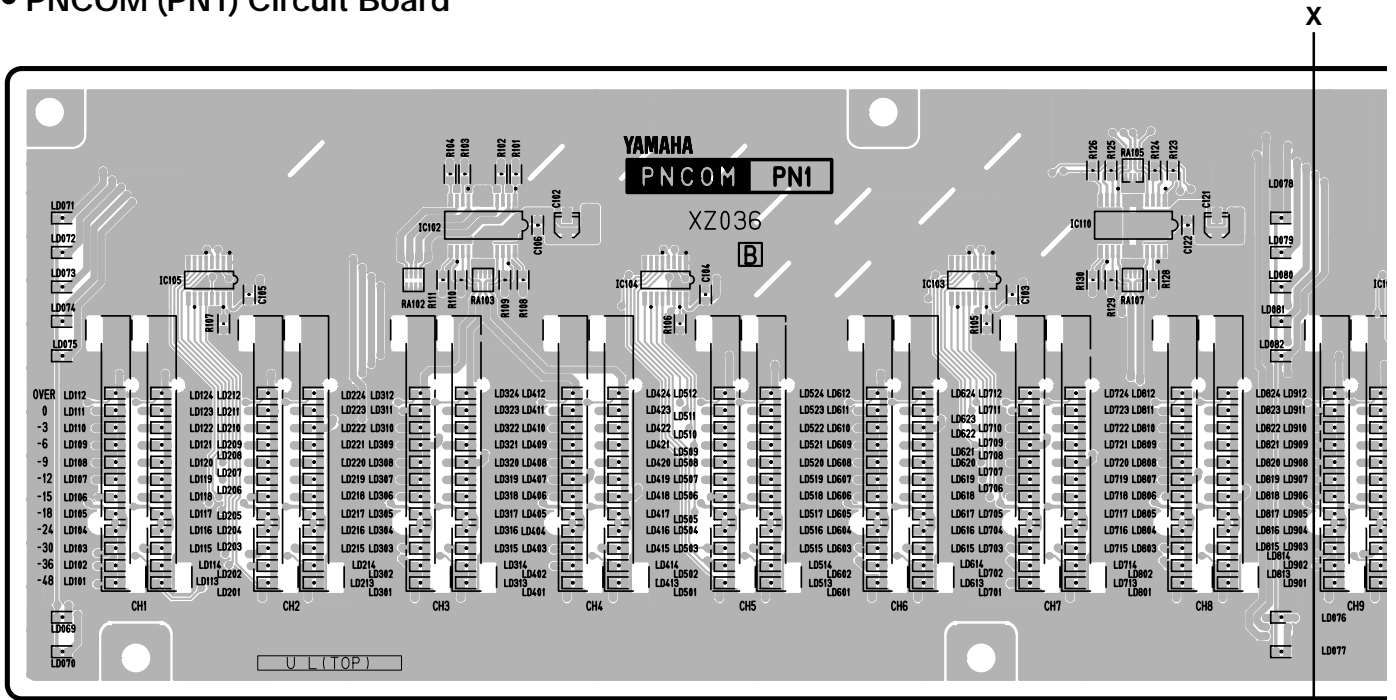


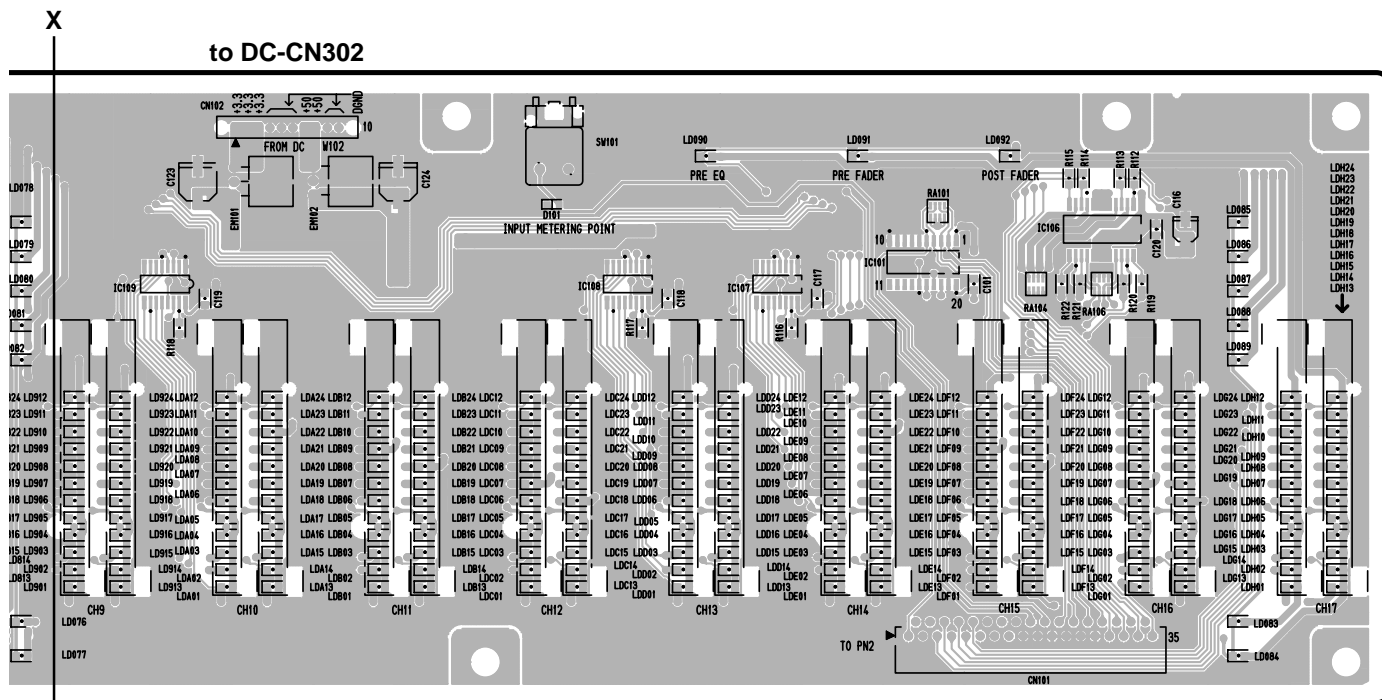
● DC Circuit Board



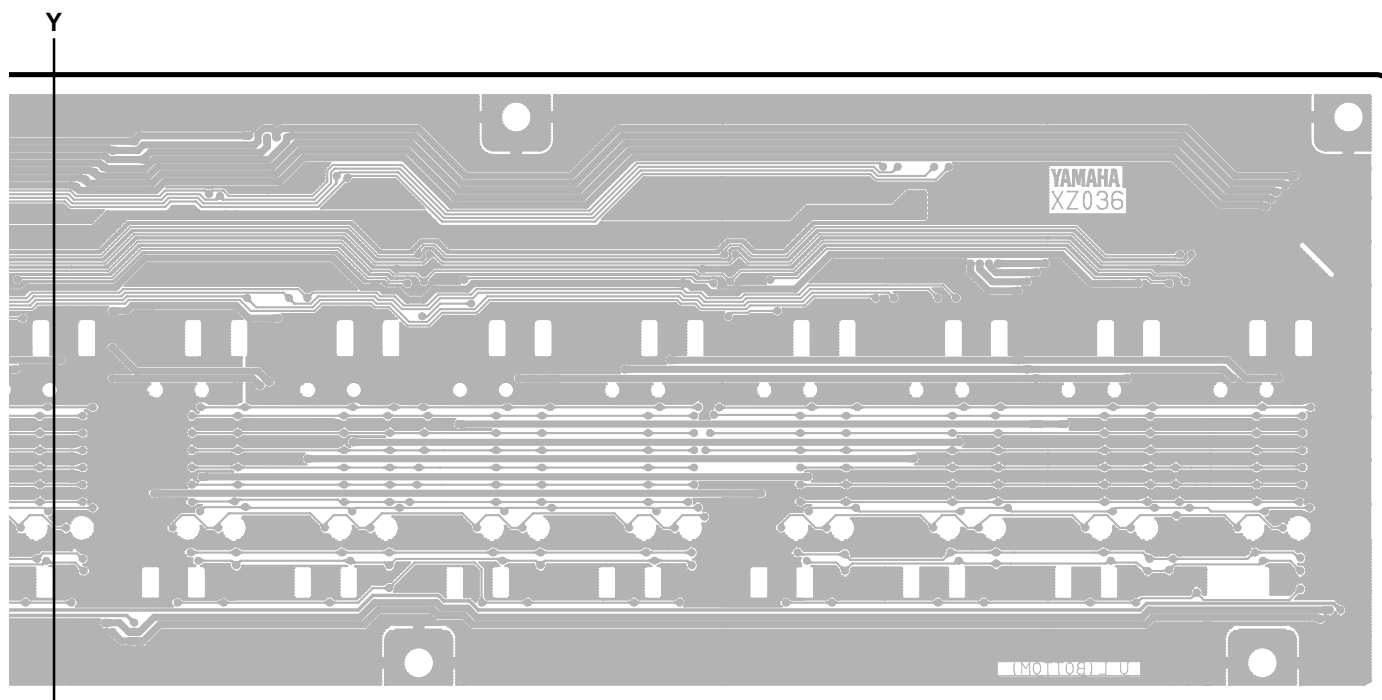
3NA-V628880-2

● PNCOM (PN1) Circuit Board



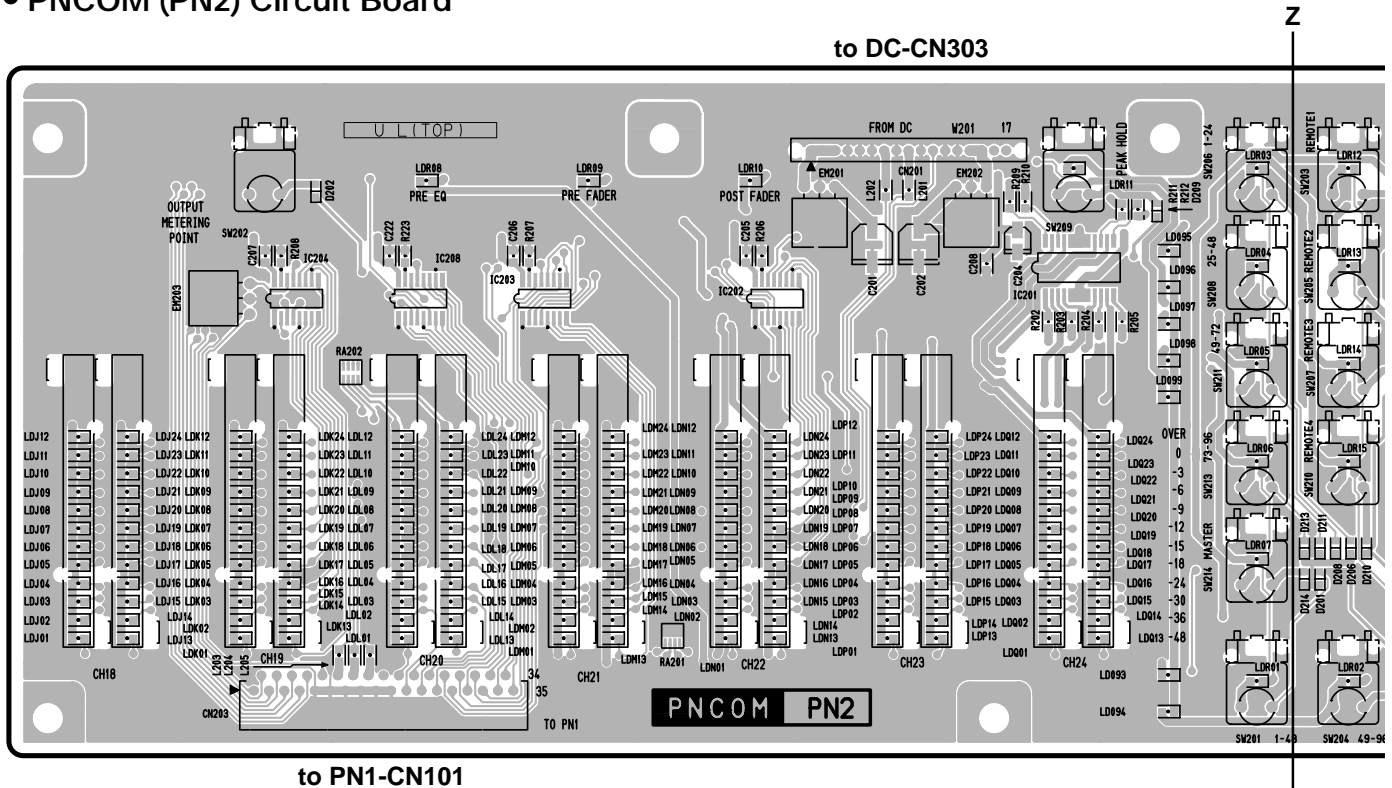


to PN2-CN203
Component side

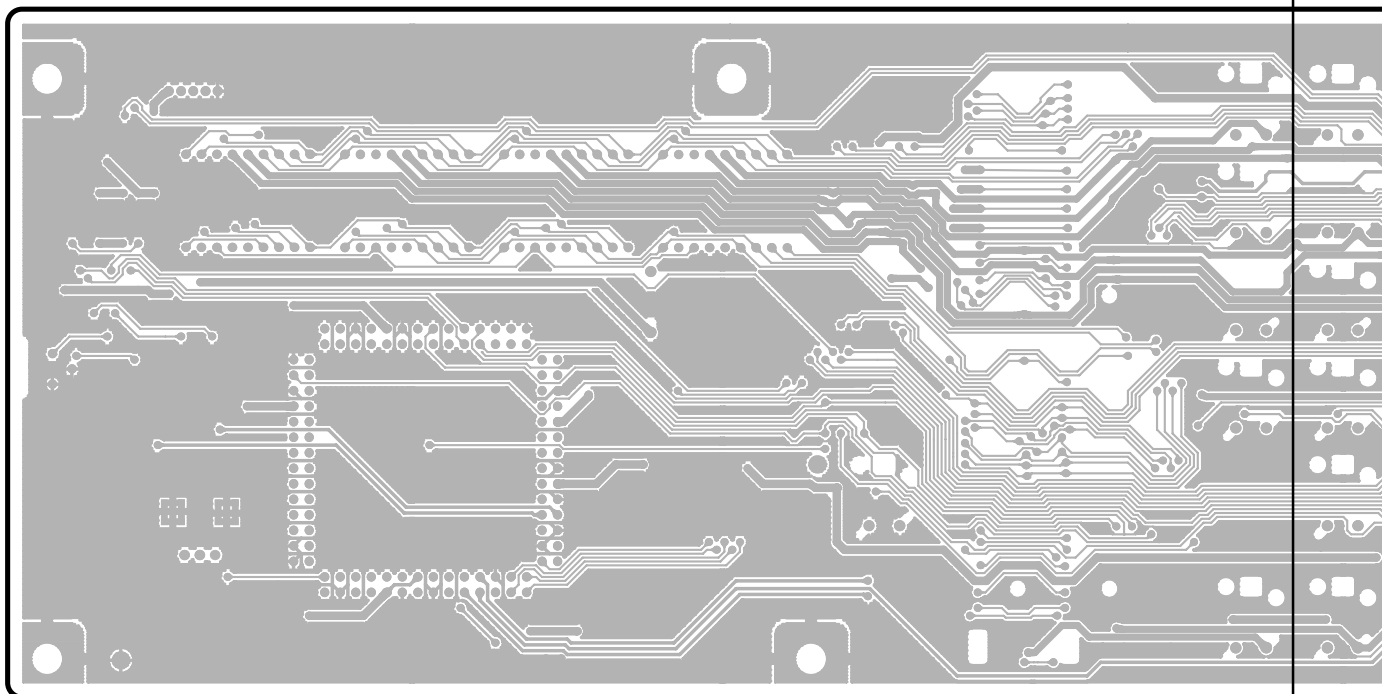


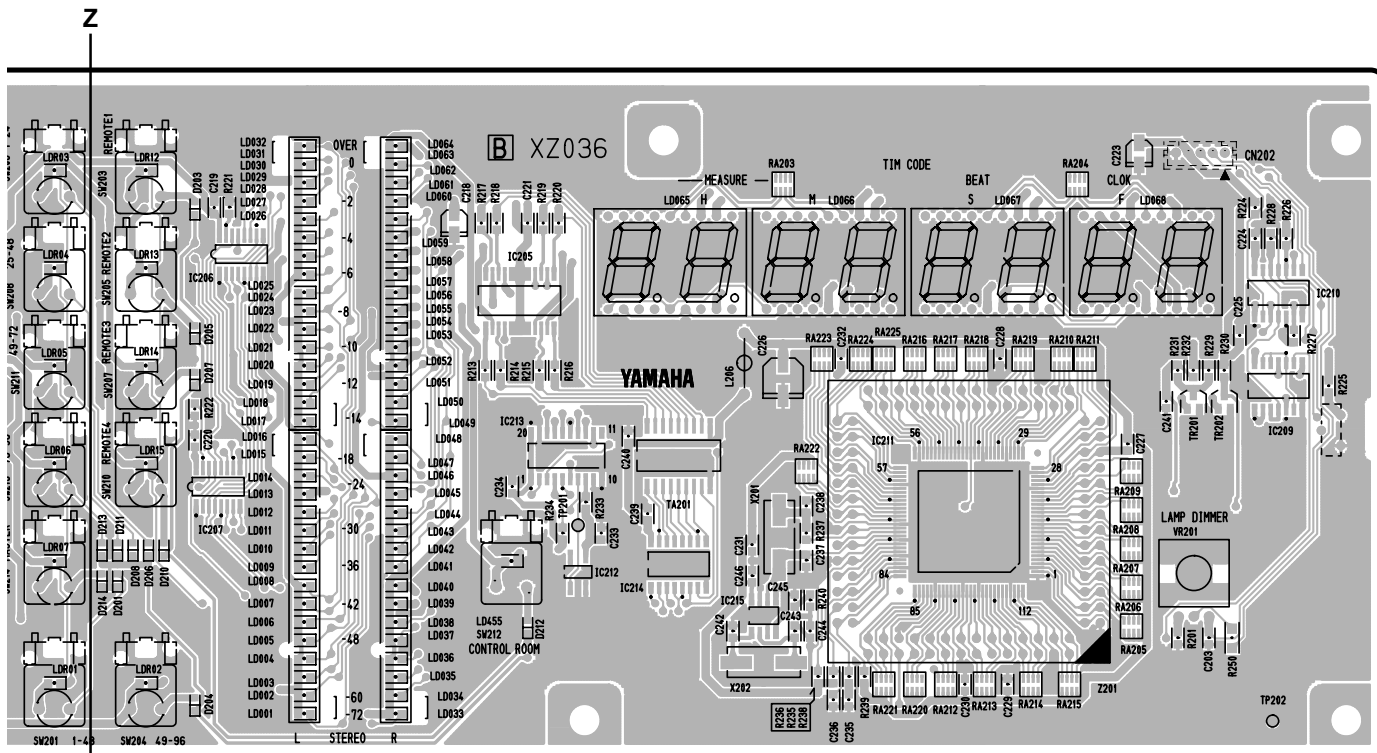
Pattern side

• PNCOM (PN2) Circuit Board

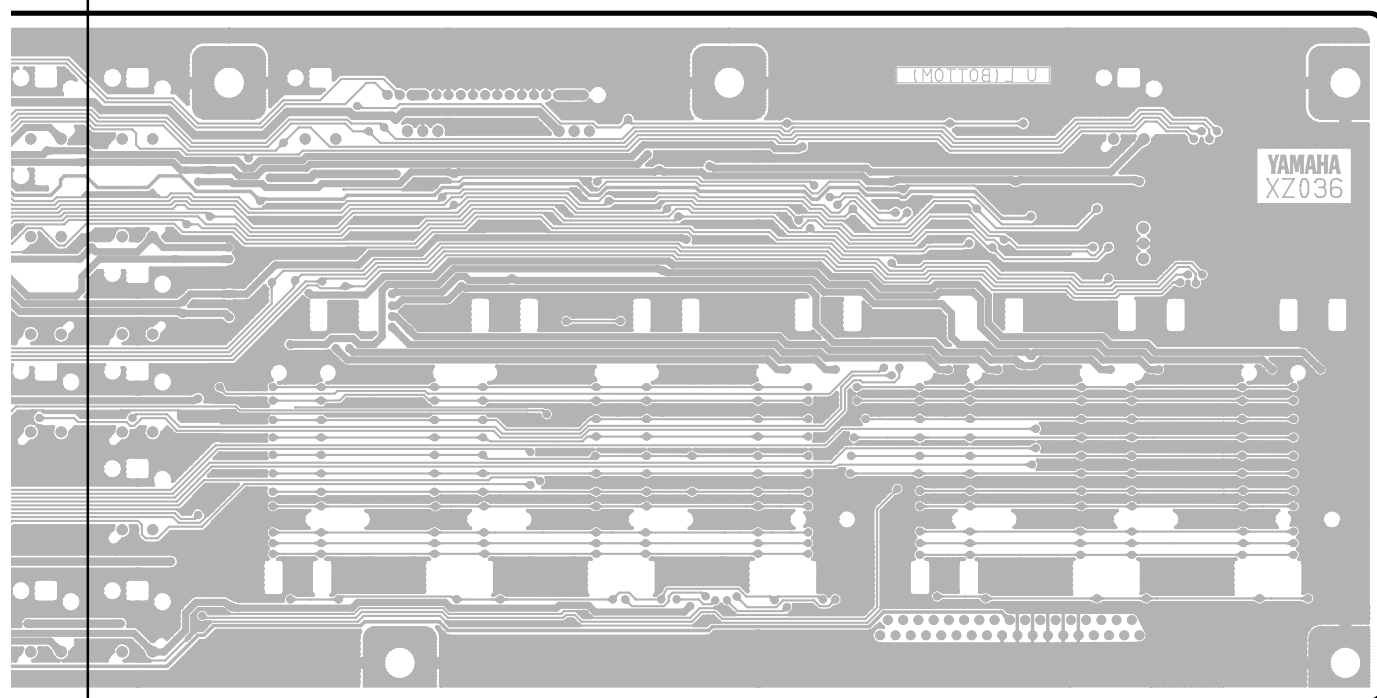


to PN1-CN101





Component side



Pattern side

3NA-V773550-2 \triangle

INSPECTIONS

* Perform the Check of DM2000.

1. Preparation

1-1. Condition

◇ Conditioned as follows unless specified:

- WORD CLOCK to be INT 96kHz.
- Only CH to be checked shall be turned ON.
PAN: Center
GAIN: MIN
PAD: ON
INSERT: OFF
FADER: NORMAL (0dB)
- 0dBu = 0.775Vrms
- 0dBV = 1Vrms = 2.2dBu
- 0dBFS = 0 decibel full scale
- Output impedance of oscillator shall be 150Ω.
- Input impedance of oscilloscope, level gauge shall be over 100kΩ.
- Noise measuring shall be at 12.7kHz, and be corrected with LPF of -6dB/OCT.
(Not average value but effective value should be measured.)
- Distortion measurement should be performed at 80kHz and corrected with LPF of -6dB/OCT.

◇ When checking analogue output, the following conditions shall be added or changed:

- When measuring maximum output, unless specified, output 0dB from the built-in oscillator.
- The load of analogue output shall be as follows:
INSERTOUT: 10kΩ
STEREO OUT (XLR): 600Ω
STEREO OUT (PIN): 10kΩ
CONTROL ROOM MONITOR OUT LARGE: 600Ω
CONTROL ROOM MONITOR OUT SMALL: 600Ω
STUDIO MONITOR OUT: 10kΩ
OMNI OUT: 10kΩ
PHONES: 8Ω

1-2. Initialization

Turn the power supply switch ON while pressing the [STORE] key to start and initialize the system in accordance with the instruction on the screen. Important data should be backed up by MIDI dump or Smart Media. (See page.187)

1-3. Main program writing

If the program version is not latest, program of the latest version must be installed.

- ① How to check the program version.
Turning ON the power while pressing the [UTILITY] key will display the version number.
- ② Procedure of version up
 - a. Prepare Smart Media (3.3V, Capacity: 8MB~128MB) and copy the program to be written into the root directory.
 - b. Insert the Smart Media into the MEMORY CARD SLOT while power OFF.

- c. When powered ON, the count down 5-1 will be displayed on the LCD and the flash memory will be erased and the program writing executed.
- d. When the writing completes, the system will be automatically restarted.

* For the latest main program, please download from the YSISS home page and store into the Smart Media.

2. Check of ANALOGUE IN/OUT at WORD CLOCK INT 96 kHz

2-1. STEREO OUT L/R (XLR)

Condition: Input from the [INSERT IN] terminal of CH1.

Turn ON the [INSERT] switch.

① Gain (L/R common)

Input Frequency	Input Level	Specified Output Level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (L/R common)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
40kHz	+4dBu	-1.5~ +0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.01% or below

④ Residual noise (L/R common)

Condition: [STEREO OUT] key to be switched OFF.

Permissible range
-92dBu or below

⑤ Level gap between L/R

Level gap measured in ① to be decided as follows:

Permissible range
Within 1dB

⑥ Cross talk between L and R

Condition: PAN to fully lean to the L side.

Input Frequency	Output Level (L)	Permissible range (R)
1kHz	+16dBu	-64dBu or below

Confirm that the R side also satisfies the above conditions.

⑦ Maximum output (L/R common)

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+18dBu	+18±0.5dBu	0.01% or below

Condition: Connect hot, cold terminal to GND respectively.

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+18dBu	+18±1.0dBu	0.02% or below

2-2. STEREO OUT L/R (PIN)

Condition: Input from the [INSERT IN] terminal of CH1.

The [INSERT] switch to be set to ON.

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	-10dBV	-10±2dBV

② Characteristic (L/R common)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
40kHz	+4dBu	-1.5~ +0.5dB

③ Maximum output (L/R common)

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+4dBV	+4±0.5dBV	0.02% or below

④ Cross talk between L and R

Condition: PAN to fully lean to the L side.

Input Frequency	Output Level (L)	Permissible range (R)
1kHz	+2dBV	-78dBu or below

Confirm that the R side also satisfies the above conditions.

2-3. CONTROL ROOM MONITOR OUT LARGE L/R CONTROL ROOM MONITOR OUT SMALL L/R

Condition: Input from the [INSERT IN] terminal of CH1.

The [INSERT] switch to be set to ON.
Set the [CONTROL ROOM MONITOR LEVEL] control to MAX.

Set the [SMALL TRIM] control to MAX.
Set the [STEREO] key of CONTROL ROOM to ON.

Set the [SMALL] switch to OFF for LARGE measurement and ON for SMALL.

① Gain (L/R common for LARGE/SMALL)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (L/R common for LARGE/SMALL)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
40kHz	+4dBu	-1.5~ +0.5dB

③ Distortion factor (L/R common for LARGE/SMALL)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (L/R common for LARGE/SMALL)

Condition: [STEREO OUT] key to be switched OFF.

CONTROL ROOM MONITOR LEVEL	Permissible range
MAX	-92dBu or below
MIN	-98dBu or below

(L/R common for only SMALL)

Condition: [STEREO OUT] key to be switched OFF.

CONTROL ROOM MONITOR LEVEL	Permissible range
MAX	-92dBu or below
MIN	-100dBu or below

⑤ Level gap between L/R (LARGE/SMALL common)

Level gap measured in ① to be decided as follows:

Permissible range
Within 1dB

⑥ Cross talk between L and R (LARGE/SMALL common)

Condition: PAN to fully lean to the L side.

Input Frequency	Output Level (L)	Permissible range (R)
1kHz	+16dBu	-64dBu or below

Confirm that the R side also satisfies the above conditions.

⑦ Maximum output (L/R common for LARGE/SMALL)

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+18dBu	+18±0.5dBu	0.02% or below

Condition: Connect hot, cold terminal to GND respectively.

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+18dBu	+18±1.0dBu	0.02% or below

2-4. STUDIO MONITOR OUT L/R

Condition: Input from the [INSERT IN] terminal of CH1.

The [INSERT] switch to be set to ON.

The [MONITOR OUT LEVEL] control to be set to MAX.

The [STEREO] key of STUDIO to be turned ON.

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (L/R common)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
40kHz	+4dBu	-1.5~ +0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (L/R common)

Condition: [STEREO OUT] key to be switched OFF.

MONITOR OUT LEVEL	Permissible range
MAX	-92dBu or below
MIN	-100dBu or below

⑤ Level gap between L/R

Level gap measured in ① to be decided as follows:

Permissible range
Within 1dB

⑥ Cross talk between L and R

Condition: PAN to fully lean to the L side.

Input Frequency	Output Level (L)	Permissible range (R)
1kHz	+16dBu	-64dBu or below

Confirm that the R side also satisfies the above conditions.

⑦ Maximum output (L/R common)

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+18dBu	+18±0.5dBu	0.02% or below

Condition: Connect hot, cold terminal to GND respectively.

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+18dBu	+18±1.0dBu	0.02% or below

2-5. OMNI OUT 1~8

Condition: Input from the [INSERT IN] terminal of CH1.

Turn ON the [INSERT] switch.

Turn ON BUS1~8 at ROUTING of CH1.

Assign BUS nCH to OMNI nCH with the [OUTPUT PATCH] key.

Turn ON MASTER FADER of BUS 1~8.

The slide switches SW101~801 (8 switches) in DA1 circuit board are to be +18dB.

① Gain (OMNI OUT 1~8)

Input Frequency	Input Level	Specified Output Level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (OMNI OUT 1~8)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
40kHz	+4dBu	-1.5~ +0.5dB

③ Distortion factor (OMNI OUT 1~8)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (OMNI OUT 1~8)

Condition: [BUS OUT] key to be switched OFF.

Permissible range
-92dBu or below

⑤ Level gap among the terminals [OMNI OUT 1~8]
Level gap measured in ① and ② to be decided as follows:

Permissible range
Within 1dB

⑥ Cross talk between odd CH/even CH

Input Frequency	Output Level (odd CH)	Permissible range (even CH)
1kHz	+16dBu	-64dBu or below

Confirm that the even side also satisfies the above conditions.

⑦ Maximum output (OMNI OUT 1~8)

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+18dBu	+18±0.5dBu	0.02% or below

Condition: Connect hot, cold terminal to GND respectively.

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	+18dBu	+18±1.0dBu	0.02% or below

2-6. Output Level Gap

Condition: [STEREO OUT L/R] terminal

[CONTROL ROOM MONITOR OUT LARGE L/R] terminal

[CONTROL ROOM MONITOR OUT SMALL L/R] terminal

[STUDIO MONITOR OUT L/R] terminal

[OMNI OUT 1~8] terminal (SW101~801 (8 switches) in DA1 circuit board are of at +18dB.)

The range of the gain gaps measured at 1kHz for these terminals is specified as follows:

Permissible range
Within 2dB

2-7. PHONES OUT L/R

Condition: Input from the [INSERT IN] terminal of CH1.

The [INSERT] switch to be set to ON.

The [PHONES LEVEL] control to be set to MAX.

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	-12.8dBu	-12.8±2dBu

② f Characteristic (L/R common)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-3~0.5dB
40kHz	+4dBu	-3~0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	-10dBu	0.04% or below

④ Residual noise (L/R common)

Condition: The [PHONE LEVEL] control to be set to MIN.

Permissible range
-100dBu or below

⑤ Level gap between L/R

Level gap measured in ① to be decided as follows:

Permissible range
Within 1dB

⑥ Maximum output (L/R common)

Condition: To output -6dB from the built-in oscillator.

Input Frequency	Output Level	Permissible range	Permissible range (Distortion factor)
1kHz	-4.8dBu	-4.8±0.5dBu	0.04% or below

⑦ Cross talk between L and R

Condition: PAN to fully lean to the L side.

Input Frequency	Output Level (L)	Permissible range (R)
1kHz	-10dBu	-75dBu or below

Confirm that the R side also satisfies the above conditions.

2-8. 2TR IN ANALOG 1 L/R

Condition: Check at the [STEREO OUT L] terminal (XLR).

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (L/R common)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~0.5dB
40kHz	+4dBu	-1.5~0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (L/R common)

Condition: [2TR IN ANALOG 1] terminal to be shorted at 150Ω.

Permissible range
-86dBu or below

⑤ Level gap between L/R

Level gap measured in ① to be decided as follows:

Permissible range
Within 1dB

⑥ Cross talk between L and R

Condition: Input the signal into the L side.

The R side to be shorted at 150Ω.

Input Frequency	Output Level (L)	Permissible range (R)
1kHz	+16dBu	-64dBu or below

Confirm that the R side also satisfies the above conditions.

2-9. 2TR IN ANALOG 2 L/R

Condition: Check at the [STEREO OUT L] terminal (XLR).

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	-10dBV	+4dBu	+4±2dBu

② f Characteristic (L/R common)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	-10dBV	-1.5~0.5dB
40kHz	-10dBV	-1.5~0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (L/R common)

Condition: [2TR IN ANALOG 2] terminal to be shorted at 150Ω.

Permissible range
-86dBu or below

⑤ Level gap between L/R

Level gap measured in ① to be decided as follows:

Permissible range
Within 1dB

⑥ Cross talk between L and R

Condition: Input the signal into the L side.

The R side to be shorted at 150Ω.

Input Frequency	Output Level (L)	Permissible range (R)
1kHz	+16dBu	-64dBu or below

Confirm that the R side also satisfies the above conditions.

2-10. CH IN 1~24 (XLR, PHONE)

Condition: Check at the [STEREO OUT L] terminal (XLR).

Turn OFF the [INSERT] switch.

A. GAIN MAX, PAD OFF

① Gain (CH1~24)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	-60dBu	+4dBu	+4±2dBu

② f Characteristic (CH1~24)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	-60dBu	-1.5~0.5dB
40kHz	-60dBu	-1.5~0.5dB

③ Distortion factor (CH1~24)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Noise level EIN(CH1~24)

Condition: Measured CH IN to be shorted at 150Ω.

Permissible range
-64dBu or below

However, if not be within the above range, confirm that the measured value is (Gain at 1kHz) \leq -128.

⑤ Level gap (CH1~24)

Level gap measured in ① to be decided as follows:

Permissible range
Within 2dB

B. GAIN MIN, PAD ON

① Gain (CH1~24)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+10dBu	+4dBu	+4±2dBu

② Distortion factor (CH1~24)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.01% or below

③ Noise level (CH1~24)

Condition: Measured CH IN to be shorted at 150Ω.

Permissible range
-86dBu or below

④ INSERT OUT gain (CH1~24)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+10dBu	+4dBu	+4±1.5dBu

⑤ INSERT OUT noise level (CH1~24)

Condition: Measured CH IN to be shorted at 150Ω.

Permissible range
-90dBu or below

⑥ Checking the action of the Level Meter (CH1~24)

Condition: Input the specified levels into the CH to be measured.

Concurrent inputs into CH 1~24 are possible.

Confirm visually each LED ON/OFF of PEAK, NOMINAL, SIGNAL.

Light ON

LED level	Input frequency	Input level	Reference output level (INSERT OUT)
PEAK	1kHz	+23dBu	+17dBu
SIGNAL	1kHz	-8dBu	-14dBu

Light OFF

LED level	Input frequency	Input level	Reference output level (INSERT OUT)
PEAK	1kHz	+19dBu	+13dBu
SIGNAL	1kHz	-12dBu	-18dBu

C. Phantom (CH1~24)

Voltage with XLR Pin 2 and Pin3 shorted, a load of 10kΩ between Pin 2 and 1, and the Phantom Switch ON is prescribed as follows:

Permissible range
DC 31~37V

Check if a discharge of electricity occurs quickly when the Phantom switch is turned OFF.

2-11. TALKBACK

Condition: Check at the [STEREO OUT L/R] terminal (XLR).

Set the [TALKBACK LEVEL] control to MAX.

Turn ON the [SLATE] key of TALKBACK. Confirm the signal through the microphone.

3. ANALOGU IN/OUT check at 48kHz WORD CLOCK INT

3-1. STEREO OUT L/R (XLR)

Condition: Input from the [INSERT IN] terminal of CH1.

Turn ON the [INSERT] switch.

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (L/R common)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
20kHz	+4dBu	-1.5~ +0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.01% or below

④ Residual noise (L/R common)

Condition: Turn OFF the [STEREO OUT] key.

Permissible range
-92dBu or below

3-2. CONTROL ROOM MONITOR OUT LARGE L/R

Condition: Input from the [INSERT IN] terminal of CH1.

Turn ON the [INSERT] switch.

Set the [CONTROL ROOM MONITOR LEVEL] control to MAX.

Turn ON the [STEREO] key of CONTROL ROOM.

① Gain (LARGE L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (LARGE L/R common)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
20kHz	+4dBu	-1.5~ +0.5dB

③ Distortion factor (LARGE L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (LARGE L/R common)

Condition: Set the [STEREO OUT] key to OFF.

CONTROL ROOM MONITOR OUT LEVEL	Permissible range
MAX	-92dBu or below

3-3. STUDIO MONITOR OUT L/R

Condition: Input from the [INSERT IN] terminal of CH1.

Turn ON the [INSERT] switch.

Set the [MONITOR OUT LEVEL] control to MAX.

Turn ON the [STEREO] key of STUDIO.

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (L/R common)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
20kHz	+4dBu	-1.5~ +0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (L/R common)

Condition: Set the [STEREO OUT] key to OFF.

MONITOR OUT LEVEL	Permissible range
MAX	-92dBu or below

3-4. OMNI OUT 1~8

Condition: Input from the [INSERT IN] terminal of CH1.

Switch ON the [INSERT] switch.

Turn ON BUS1~8 at ROUTING of CH1.

Assign BUS nCH to OMNI nCH with the [OUTPUT PATCH] key.

Turn ON MASTER FADER of BUS 1~8. The slide switches SW101~801 (8 switches) in DA1 circuit board are to be +18dB.

① Gain (OMNI OUT 1~8)

Input Frequency	Input Level	Specified Output Level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (OMNI OUT 1~8)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~ +0.5dB
20kHz	+4dBu	-1.5~ +0.5dB

③ Distortion factor (OMNI OUT 1~8)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (OMNI OUT 1~8)

Condition: [BUS OUT] key to be switched OFF.

Permissible range
-92dBu or below

3-5. PHONES OUT L/R

Condition: Input from the [INSERT IN] terminal of CH1.

Turn ON the [INSERT] switch.

Set the [PHONES LEVEL] control to MAX.

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	-12.8dBu	-12.8±2dBu

② f Characteristic (L/R common)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-3~0.5dB
20kHz	+4dBu	-3~0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	-10dBu	0.04% or below

④ Residual noise (L/R common)

Condition: Set the [PHONES LEVEL] control to MIN.

Permissible range
-100dBu or below

3-6. 2TR IN ANALOG 1 L/R

Condition: Check at the [STEREO OUT L] terminal (XLR).

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	+4dBu	+4±2dBu

② f Characteristic (L/R common)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.5~0.5dB
20kHz	+4dBu	-1.5~0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (L/R common)

Condition: [2TR IN ANALOG 1] terminal to be shorted at 150Ω.

Permissible range
-88dBu or below

3-7. 2TR IN ANALOG 2 L/R

Condition: Check at the [STEREO OUT L] terminal (XLR).

① Gain (L/R common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	-10dBV	+4dBu	+4±2dBu

② f Characteristic (L/R common)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	-10dBV	-1.5~0.5dB
20kHz	-10dBV	-1.5~0.5dB

③ Distortion factor (L/R common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

④ Residual noise (L/R common)

Condition: [2TR IN ANALOG 2] terminal to be shorted at 150Ω.

Permissible range
-88dBu or below

3-8. CH IN 1~24 (XLR, PHONE)

Condition: Check at the [STEREO OUT L] terminal (XLR).

Turn OFF the [INSERT] switch.

Set the [GAIN] control to MIN and the [PAD] switch to ON.

① Gain (CH1~24)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+10dBu	+4dBu	+4±2dBu

② f Characteristic (CH1~24)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+10dBu	-1.5~0.5dB
20kHz	+10dBu	-1.5~0.5dB

③ Distortion factor (CH1~24)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.01% or below

④ Noise level (CH1~24)

Condition: Measured CH IN to be shorted at 150Ω.

Permissible range
-88dBu or below

4. Checking DIGITAL IN/OUT

4-1. 2TR DIGITAL OUT 1,2,3

Condition: Use System Two.

Input from the [INSERT IN] terminal of CH1.

Turn ON the [INSERT] switch.

A. WORD CLOCK INT 48kHz.

Condition: Set WORD CLOCK INT to 48kHz.

Turn OFF SRC of the [2TR DIGITAL OUT] terminal.

① Gain (2TR DIGITAL OUT 1,2,3 common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	-14dBFS	-14±2dBFS

② f Characteristic (2TR DIGITAL OUT 1)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.0~0.5dB
20kHz	+4dBu	-1.0~0.5dB

③ Distortion factor (2TR DIGITAL OUT 1)

Input Frequency	Output Level	Permissible range
1kHz	-2dBFS	0.02% or below

B. WORD CLOCK INT 96kHz.

Condition: Set WORD CLOCK INT to 96kHz.

Turn OFF SRC of the [2TR DIGITAL OUT] terminal.

① Gain (2TR DIGITAL OUT 1,2,3 common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	+4dBu	-14dBFS	-14±2dBFS

② f Characteristic (2TR DIGITAL OUT 1)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	+4dBu	-1.0~0.5dB
40kHz	+4dBu	-1.5~0.5dB

③ Distortion factor (2TR DIGITAL OUT 1)

Input Frequency	Output Level	Permissible range
1kHz	-2dBFS	0.02% or below

C. SRC action

Condition: Set WORD CLOCK INT to 96kHz.

Turn ON SRC of CH to be measured.

① FS (2TR DIGITAL OUT 1,2,3 common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	-2dBFS	44.1kHz	44.1kHz±100Hz

② Distortion factor (2TR DIGITAL OUT 1,2,3 common)

Input Frequency	Output Level	Permissible range
1kHz	-2dBFS	0.005% or below

4-2. 2TR DIGITAL IN 1,2,3

Condition: Use System Two.

Check at the [STEREO OUT L/R] terminal (XLR).

Select as follows for WORD CLOCK.

When checking the [2TR DIGITAL IN 1] terminal: 2TR D1

When checking the [2TR DIGITAL IN 2] terminal: 2TR D2

When checking the [2TR DIGITAL IN 3] terminal: 2TR D3

A. 48kHz.

Condition: Set the frequency setting (Sample Rate) of System Two to 48kHz.

Turn OFF SRC of the [2TR DIGITAL IN] terminal.

① Gain (2TR DIGITAL IN 1,2,3 common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	-14dBFS	+4dBu	+4±2dBu

② f Characteristic (2TR DIGITAL IN 1)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	-14dBFS	-1.0~0.5dB
20kHz	-14dBFS	-1.0~0.5dB

③ Distortion factor (2TR DIGITAL IN 1)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

B. 96kHz.

Condition: Set the frequency setting (Sample Rate) of System Two to 96kHz.

Turn OFF SRC of the [2TR DIGITAL IN] terminal.

① Gain (2TR DIGITAL IN 1,2,3 common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	-14dBFS	+4dBu	+4±2dBu

② f Characteristic (2TR DIGITAL IN 1)

Condition: Permissible range of 1kHz to be standard.

Input Frequency	Input Level	Permissible range
20Hz	-14dBFS	-1.0~0.5dB
40kHz	-14dBFS	-1.5~0.5dB

③ Distortion factor (2TR DIGITAL IN 1)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

C. SRC action

Condition: Set WORD CLOCK INT to 96kHz.

Check at the [2TR DIGITAL OUT 1] terminal.

Set the frequency setting of System Two (Sample Rate) to 44.1kHz.

Turn ON SRC of CH to be measured.

① FS (2TR DIGITAL IN 1,2,3 common)

Input Frequency	Input Level	Specified output level	Permissible range
1kHz	-14dBFS	96kHz	96kHz±100Hz

② Distortion factor (2TR DIGITAL IN 1,2,3 common)

Input Frequency	Output Level	Permissible range
1kHz	-14dBFS	0.005% or below

4-3. PLL action range of WORD CLOCK IN and 2TR DIGITAL IN 1,2,3

Condition: Use System Two.

Check at the [STEREO OUT L/R] terminal (XLR).

Select as follows for WORD CLOCK.

When checking the [WORD CLOCK IN] terminal: WC IN

When checking the [2TR DIGITAL IN 1] terminal: 2TR D1

When checking the [2TR DIGITAL IN 2] terminal: 2TR D2

When checking the [2TR DIGITAL IN 3] terminal: 2TR D3

Input from the [INSERT IN] terminal of CH1.

Turn ON the [INSERT] switch.

A. 96kHz + 6% (101.76kHz)

Condition: When checking the [WORD CLOCK IN] terminal, set the frequency setting of the oscillator to 96kHz + 6%. When checking the [2TR DIGITAL IN 1,2,3] terminal, set the setting of System Two (Sample Rate) to 96kHz + 6%.

① Distortion factor (WORD CLOCK IN, 2TR DIGITAL IN 1,2,3 common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

- B. 44.1kHz - 10% (39.69kHz)
 Condition: When checking the [WORD CLOCK IN] terminal, set the frequency setting of the oscillator to 44.1kHz - 10%. When checking the [2TR DIGITAL IN 1,2,3] terminal, set the setting of System Two (Sample Rate) to 44.1kHz - 10%.

- ① Distortion factor (WORD CLOCK IN, 2TR DIGITAL IN 1,2,3 common)

Input Frequency	Output Level	Permissible range
1kHz	+16dBu	0.02% or below

IN 1] terminal: 2TR D1
 When checking the [2TR DIGITAL IN 2] terminal: 2TR D2
 When checking the [2TR DIGITAL IN 3] terminal: 2TR D3
 When checking the [WORD CLOCK IN] terminal, select the values in the following table for the frequency setting of the oscillator.
 When checking the [2TR DIGITAL IN 1,2,3] terminals, select the values in the following table for the frequency setting of the System Two (Sample Rate).

5. Measuring jitter

Condition: Use System Two.
 Select Sec, PK
 BW: Select 700Hz~100kHz.
 Check at the [2TR DIGITAL OUT1] terminal.

5-1. WORD CLOCK INT

Condition: For WORD CLOCK, select as follows:

- ① Jitter

WORD CLOCK	Permissible range
INT 44.1kHz	5nsec. or below
INT 48kHz	5nsec. or below
INT 88.2kHz	5nsec. or below
INT 96kHz	5nsec. or below

5-2. WORD CLOCK EXT

Condition: Select as follows for WORD CLOCK.
 When checking the [WORD CLOCK IN] terminal: WC IN
 When checking the [2TR DIGITAL

- ① Jitter (WORD CLOCK IN, 2TR DIGITAL IN 1,2,3 common)

WORD CLOCK	Permissible range
44.1kHz	10nsec. or below
48kHz	10nsec. or below
88.2kHz	10nsec. or below
96kHz	10nsec. or below

6. Sound check

- Check the following items with the sense of hearing.
- EFT 1~8
 Check at No.13 and 19 of EFFECT LIBRARY.
 - ANALOG INPUT, ANALOG OUTPUT
 Check at the [STEREO OUT L/R] terminal (XLR) of CH1, CH12, CH24.
 - 2TR DIGITAL IN 1,2,3
 Condition: Set WORD CLOCK INT to 96kHz.
 Check at the [STEREO OUT L/R] terminal (XLR).
 Set the frequency setting of System Two (Sample Rate) to 44.1kHz.
 Turn ON SRC of CH to be measured.

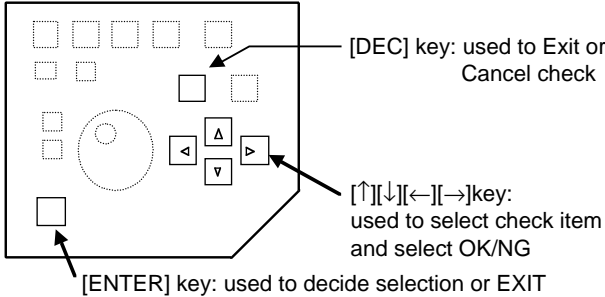
SERVICE CHECK PROGRAM

* Execute the service check programs for DM2000 and MB2000.

0. Outline

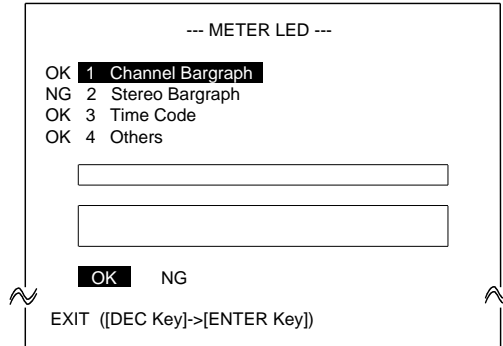
0-1 How to operate

Keys used for the service check on the panel



(Fig.3)

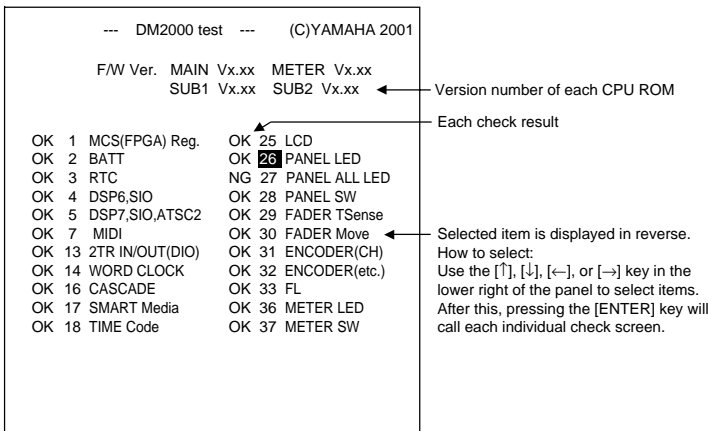
Example B of individual check screen (when checking each one of multiple items automatically (semi-automatically) or visually)



0-2. Explanation of screen

(Fig.1)

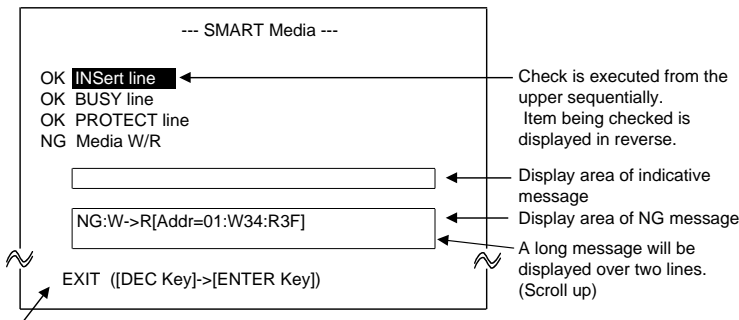
Example of screen for the entire check items



* 36 and 37 are the test programs of MB2000.

(Fig.2)

Example A of individual check screen (when forwarding check items by automatic judge)



- 1) Check is carried out automatically and turns to the [EXIT] mode when all items are completed. Pressing the [ENTER] key will display the screen of Fig.1.
- 2) If redo the check, return to Fig.1 to select items.

- 1) When starting the check, OK/NG selection items will be displayed. Judging by actions and results, select OK/NG. Use the [←] or [→] key for the selection and decide by using the [ENTER] key.
- 2) Choice of OK or NG displays the next check item automatically.
- 3) Pressing the [DBC] key while the entry of OK/NG decision is being waited will reverse the appearance of [EXIT] and this screen is terminated when the [ENTER] key is pressed. (Some check items can be processed the [EXIT] by pressing the [DEC] key even during the execution.) If executed the [EXIT] before all the check items are completed, the judges of Fig.1 will be displayed as NG.
- 4) Check items with numbers at the head as such Fig.3 are selectable. Select an item using the [↑] or [↓] key and press the [ENTER] key to start a check. For the ones without numbers at the head the check will be automatically initiated.

0-3 List of check items

Item	Check name	Outline of check item	Judge
1-1	MCS(FPGA)	Check the FPGA register by Read/Write.	Auto
1-2	BATT	Check the voltage of the backup battery.	Auto
1-3	RTC	Initiate, set, or display the Real Time Clock.	Semi-Auto
1-4	DSP6,SIO	Check the SIO connection by Reading/Writing the register of each DSP6.	Auto
1-5	DSP7,SIO,ATSC2	Check the SIO and ATSC2 connection by Reading/Writing the register of each DSP7.	Auto
1-6			
1-7	MIDI	MIDI OUT-->Check the Send/Receive of IN.	Auto
1-8			
1-9			
1-10			
1-11			
1-12			
1-13	2TR IN/OUT(DIO)	Check by Loop Backing the 2TR IN/OUT DIGITAL.	Auto
1-14	WORD CLOCK	Count the Fs of WCLK OUT at WCLK IN to judge the LOCK of PLL.	Semi-Auto
1-15			
1-16	CASCADE	Check the Send/Receive of CASCADE OUT > IN.	Auto
1-17	SMART Media	Check the control panel, Check the Smart Media by Read/Write.	Semi-Auto
1-18	TIME Code	Check the MTC MIDI input.	Auto
1-19			
1-25	LCD	Display the entire screen in black and white to check contrast volume.	Visual check
1-26	PANEL LED	LEDs (including 7 Seg LEDs) will light sequentially as specified.	Visual check
1-27	PANEL ALL LED	Check all LEDs for gradual brightness and for each color.	Visual check
1-28	PANEL SW	Press the SW sequentially as specified for check.	Semi-Auto
1-29	FADER TSense	Check the touch sense sensitivity of the FADER.	Semi-Auto
1-30	FADER Move	Check the moving time and stop position of the FADER.	Semi-Auto
1-31	ENCODER(CH)	Rotate the Encoder (CH1-24) for check.	Semi-Auto
1-32	ENCODER(etc.)	Rotate the Encoder (etc.) for check.	Semi-Auto
1-33	FL	Turn ON/OFF all symbols of FL and display characters.	Visual check
1-36	METER LED	MB2000 LEDs (including 7 Seg LEDs) will light sequentially as specified.	Visual check
1-37	METER SW	Pressing the SW of MB2000 will turn ON/OFF corresponding LED.	Visual check

Checked items and item numbers correspond to those of the test program.

1. Service Check

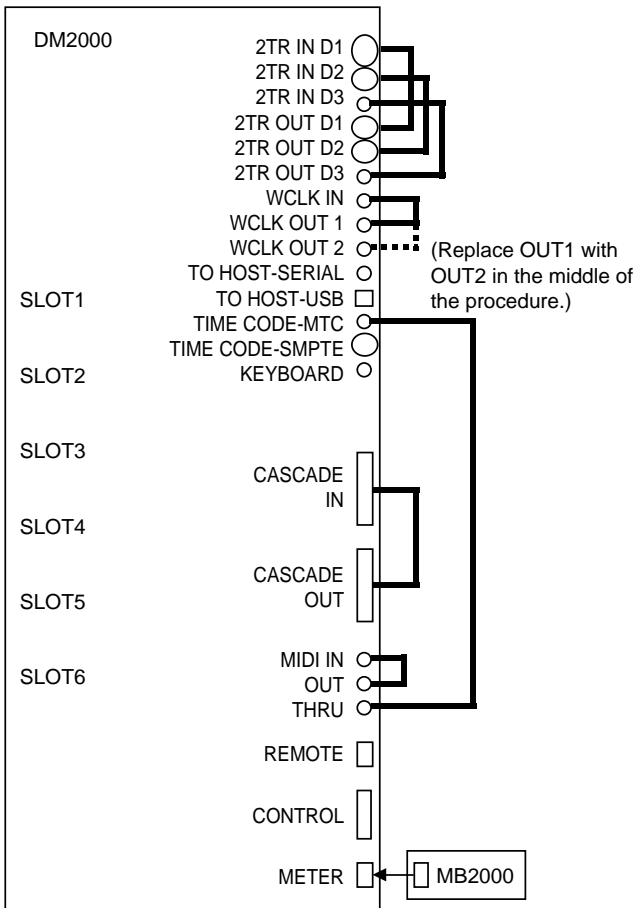
Common contents

- 1) The contents and example screens of execution for each check item are displayed.

Common preparation

- 1) Objectives to be checked: DM2000 + MB2000
- 2) Cable:
 - MIDI cable: 2
 - CANNON cable: 2
 - COAXIAL cable: 1
 - BNC cable: 1
 - D-SUB 68pin (CASCADE) cable: 1
- 3) Others
 - SMART Media: 2 (3.3 V, one is attached to the PROTECT seal)
- 4) How to
 - During normal operation, pressing the start DM2000 [SEL] key in the order CH [6 7 1 1] and pressing the [ENTER] key will display the dialogue box for approval. After this, selecting YES and pressing the [ENTER] key will restart the DM2000 in the Service Check mode.

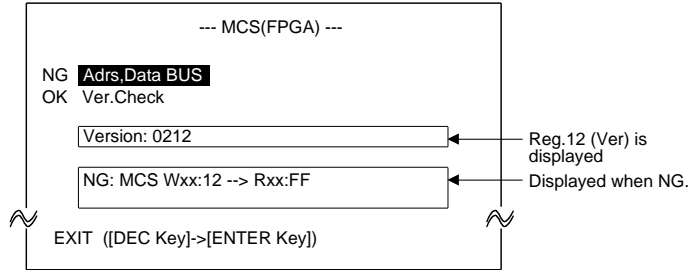
Connection diagram of Service Check



1-1 MCS(FPGA) Test

Contents: Read/Write the Reg. (00, 0f, 10, 11, 15, 16) of FPGA to compare and judge and then readout the Reg.12 (Ver) and display it.

Example of execution screen

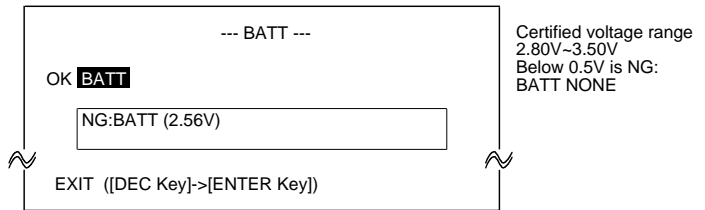


For the Ver.Check test, select OK when "Version: 0212" is displayed.

1-2 BATT Test

Contents: Measure the voltage of the backup battery in A/D for automatic judge.

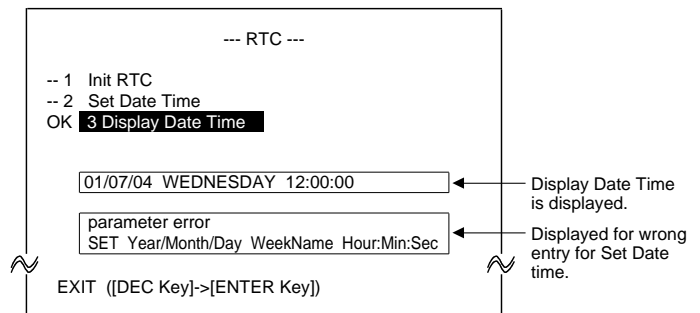
Example of execution screen



1-3 RTC Test

Contents: Initiate, set, and display the Real Time Clock.

Example of execution screen

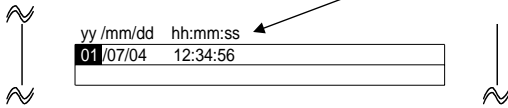


Confirm the current date and time displayed are correct by executing "3 Display Date Time."

If not correct, enter correct date and time at "2 Set Date Time" and confirm again the date and time at "3 Display Date Time." In case of abnormal Real Time Clock movement or when the backup battery of the CPU circuit board, initialize Real Time Clock at "1 Init RTC" and perform the above setting.

1) When selecting "2 Set Date Time"

Selected item will be displayed inversely.
 Move to an item to be changed using the [←] or [→] key.
 Change values using the [↑] or [↓] key and press the [ENTER] key to decide.
 The [DEC] key cancels the setting. Day of the week is automatically entered.



1-4 DSP6, S10 Test

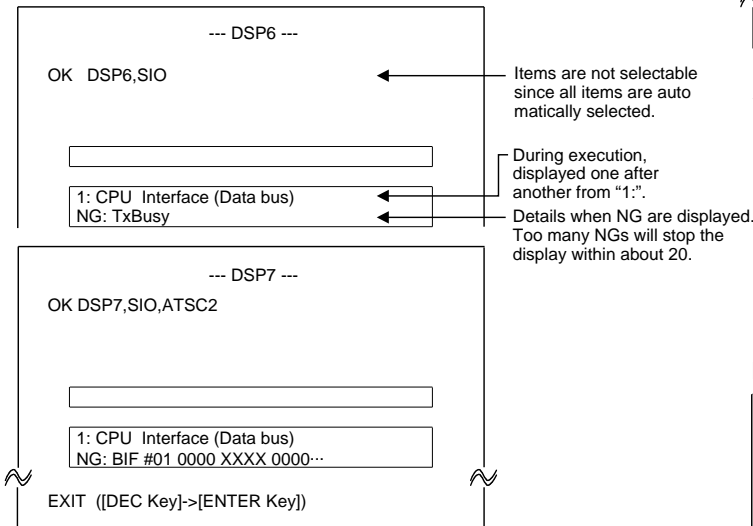
1-5 DSP7, S10, ATSC2 test

Contents: Check DataBUS and AddressBUS for good or bad by Writing/Reading the Register of each DSP6 and DSP7.

Compare and check by Writing/Reading DRAM and SDRAM of each DSP6 and DSP7 through the Register.

Check the SIO connection between each DSP, and between ATSC by sending/receiving signal.

Example of execution screen



Test item for DSP6

- 1: CPU Interface (Data bus)
- 2: CPU Interface (Data bus)
- 3: CPU Interface (Chip Select, TXB)
- 4: CPU Interface (Address bus)
- 5: CPU Interface (BUS W/R Reg.)
- 6: DRAM Interface (Data Bus)
- 7: DRAM Interface (Address Bus)
- 8: DRAM Interface (Address Bus & MPR)
- 9: SIO Connection (DSP6-->DSP6 SIO test)
- A: PIO Connection (DSP6-->DSP6 SIO test)

Test item for DSP7

- 1: CPU Interface (Data Bus)
- 2: CPU Interface (Chip Select)
- 3: CPU Interface (Address Bus)
- 4: E-RAM Interface (Data Bus)
- 5: E-RAM Interface (Address Bus)
- 6: SIO Connection (DSP7 -> DSP6)
- 7: SIO Connection (DSP6 -> DSP7)
- 8: SIO Connection (DSP7 -> DSP7)
- 9: SIO Connection (ATSC -> DSP7)
- A: SIO Connection (DSP7 -> ATSC)

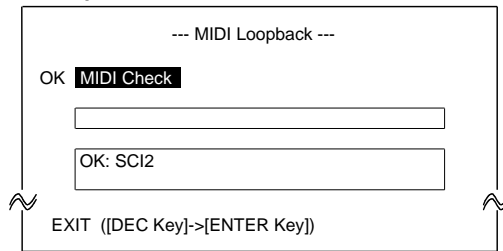
Explanation about expression when DSP6 and DSP7 are common, or when NG:

- 1) CPU Interface (Data Bus) ...NG: IC401(1) ← IC number
 0000 0000 XXXX 0000 0000 0000 X00X ← DSP number (#1..#nn)
 MSB X=Error bit LSB
- 2) SIO Connection (DSP7 -> DSP6) ...
 NG: 1 IC111(1)[Soxx] -> IC401(1)[Sixx]

1-7 MIDI Test

Contents: Sending/Receiving the string "SCI2:TEST%n" (n=0Ah) at 31.25Kbps from/into MIDI OUT→MIDI IN, verify if identical.
 Preparation: Connect MIDI OUT and MIDI IN connector of the unit.

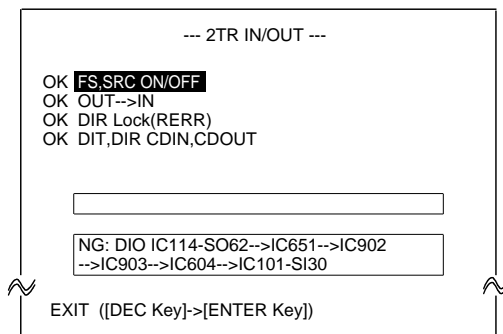
Example of execution screen



1-13 2TR IN/OUT (DIO) Test

Contents: Connect 2TR OUT DIGITAL 1,2,3 to 2TR IN DIGITAL 1,2,3 and verify by using DSP SIO. Check the SRC function of 2TR OUT DIGITAL 1,2,3 by using 2TR IN DIGITAL 1,2,3.
 Preparation: Connect each MIDI OUT DIGITAL 1,2,3 and each MIDI IN DIGITAL 1,2,3 connector of the unit respectively.

Example of execution screen



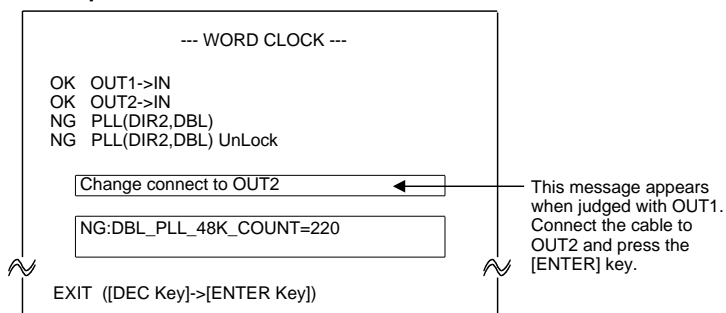
1-14 WORD CLOCK Test

Contents: Count FPGA over WORD CLOCK OUT→IN for automatic judge (Fs=44.1/48/88.2/96kHz). For the LOCK check of PLL, read the UNLOCK signal for judge after the clock becomes stable (after about 100ms). The UnLock check of PLL inspect after disconnecting the cable connected to WORD CLOCK IN.

UnLock confirmation is automatically checked when the cable is replaced.

Preparation: Connect WORD CLOCK OUT1→IN with the BNC cable. In the midway, connect to WORD CLOCK OUT2.

Example of execution screen

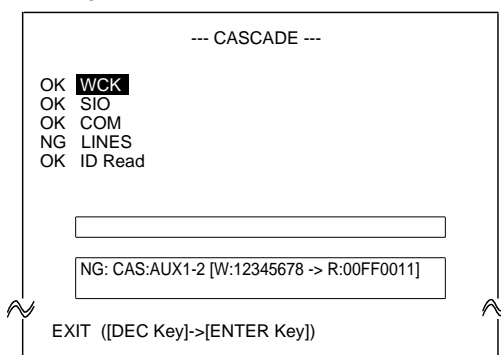


1-16 CASCADE Test

Contents: Send each signal from CASCADE OUT to CASCADE IN for automatic judge.

Preparation: Connect CASCADE OUT to CASCADE IN of the unit.

Example of execution screen



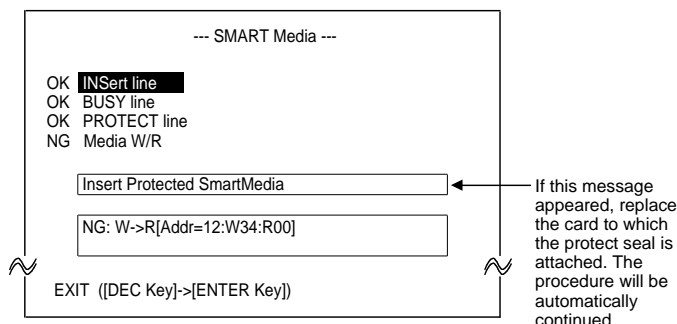
1-17 SMART Media Test

Contents: Check three control signal lines of SMART Media.

Read/Write the data of 00, 01, ...ff, 01, 02...00(512Bytes) from/into sector 0 of the media for comparison.

Preparation: Prepare two 3.3V-Smart media cards. One is for attaching PROTECT seal. Don't insert the smart media when starting the check.

Example of execution screen

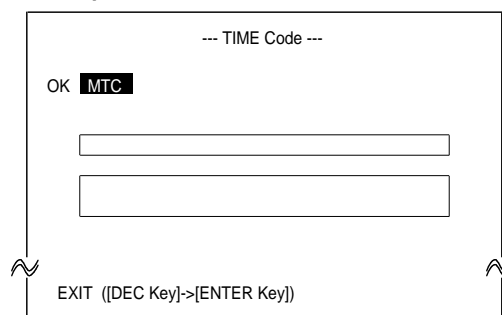


1-18 TIME Code Test

Contents: Receiving the MIDI OUT signal from the unit and compare with the Send/Receive signal "Test MTC¥n" for judge. (Only MTC can be checked. SMPTEr check is unavailable.)

Preparation: Connect MIDI THRU of the unit to MTC.

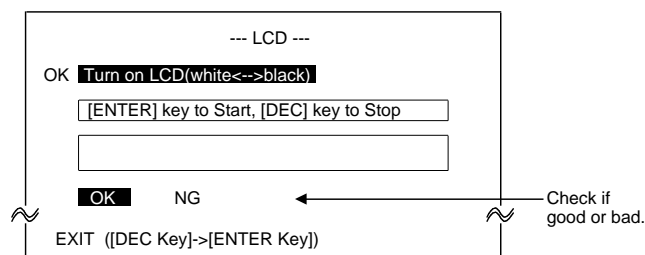
Example of execution screen



1-25 LCD Test

Contents: Display the entire LCD screen in black and white alternatively for visual check.

Example of execution screen



Check if the entire screen is displayed in black and white respectively.

Check for no dot less.

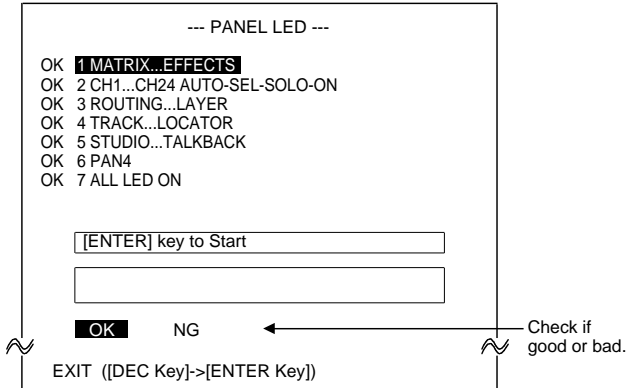
Check if the contrast of the screen changes when the contrast volume is changed.

If the above is confirmed, then press the [DEC] key and select OK/NG.

1-26 PANEL LED Test

Contents: Check visually if each LED on the panel and 7-SegLEDs lights in a specified order.

Example of execution screen

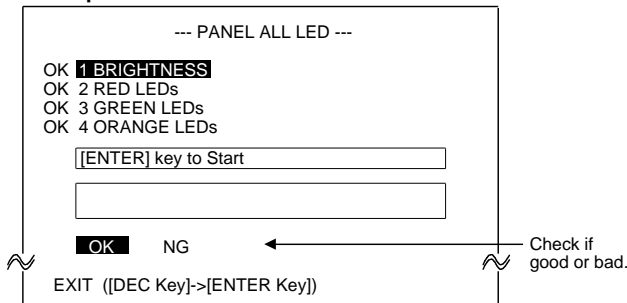


For the lighting order, see 2. Supplement "LED lighting order Fig. 1,2." For 7-SegLEDs, they light in the order 1..9,0-dot.

1-27 PANEL LED Test

Contents: Check if all the LEDs on the panel light properly in the four grades (for two-color LED is in red). Confirm that only red LEDs light (including two-color LED). Confirm that only green LEDs light (including two-color LED). Confirm that only orange LEDs light.

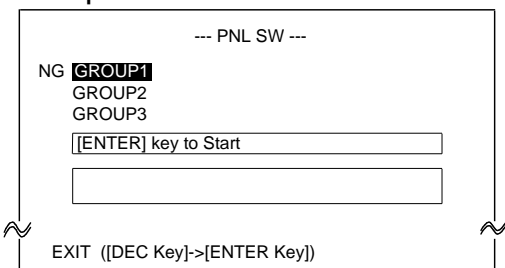
Example of execution screen



1-28 PANEL SW Test

Contents: Check if each switch on the panel corresponds correctly as specified when pressed. (Auto-judge)

Example of execution screen

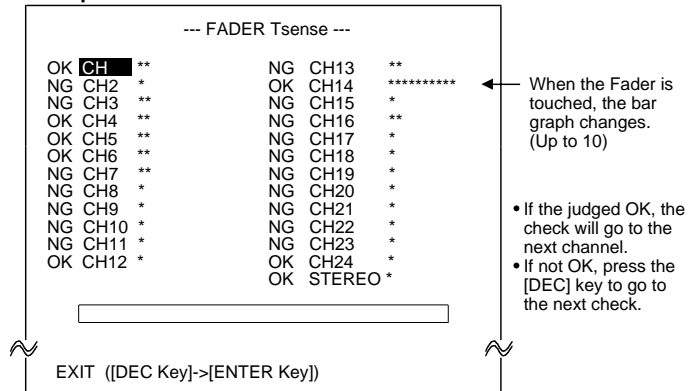


- 1) For the operation sequence, see 2. Supplement "SW operation Fig1, 2."
- 2) LCD display will change to that of 2. Supplement "LCD display Fig.1" and if the [DEC] key is pressed, it goes ahead forcibly to the next screen and thus the [DEC] key check is not required.

1-29 FADER TSense Test

Contents: Touch sense is automatically checked by the variation of input when the Fader is touched by hand.

Example of execution screen

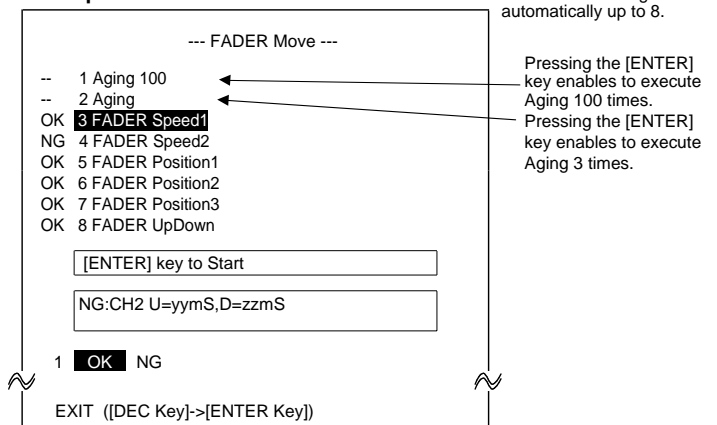


1-30 FADER Move Test

- Contents:
- 1) Move up/down all the Faders. (Aging)
 - 2) Move a Fader one by one and measure the time for auto-judge (two kinds).
 - 3) Check if the stop position of Fader position 1 is within $\pm 2\text{mm}$ of specified position. Check if the stop position of Fader position 2,3 does not exceed too much from specified position. (For the specified positions, see the table below.)
 - 4) Move the all Faders up/down to visually check for excessively slow Fader.

When entering this screen, wait at 2. Starting item can be selected with the [↑] or [↓] key. The [ENTER] key starts the check which then goes forward automatically up to 8.

Example of execution screen



1) Specified position of FADER Position

	CH1-24	STEREO
FADER Position 1	0dB at the index of the Fade's left	-10dB
FADER Position 2	-10dB at the index of the Fade's left	-20dB
FADER Position 3	-30dB at the index of the Fade's left	-50dB

1-31 ENCODER (CH) Test

Contents: Check the rotation response of Encoder of CH1 through CH24.

Rotating the Encoder in clockwise moves the mark ">" located on the left end to the right direction. When the mark ">" reaches the right end, it turns into the mark "<." After this, rotating the Encoder counterclockwise moves the mark "<" to the left direction. If the mark "<" reaches the left end, it will be OK.

Example of execution screen

--- ENCODER(CH) ---

OK CH1	NG CH13
OK CH2	NG CH14
OK CH3	NG CH15
OK CH4	NG CH16
OK CH5	NG CH17
OK CH6	NG CH18
OK CH7	NG CH19
OK CH8	NG CH20
OK CH9	NG CH21
OK CH10	NG CH22
OK CH11	NG CH23
OK CH12	NG CH24

CCW ----->----- CW

- If judged as OK, the check moves to the next channel.
- If not OK, press the [DEC] key to move to the next check.

The bar moves to the rotating direction.
> means to rotate CW (Clockwise)
< means to rotate CCW (Counterclockwise)

1-33 FL Test

Contents: All the symbols and the dots of FL module will be lit. Confirm that no lack of dot in display and no irregular brightness in display are found. And then, all the symbols and the dots will be turned off. Confirm that all of them disappeared. Confirm that "A, B, C, D" is displayed normally in the character display area on the FL module.

Example of execution screen

--- FL Symbol ---

OK 1 Turn on all FL symbols
OK 2 Turn off all FL symbols
OK 3 Display character

[ENTER] key to Start

OK NG

EXIT ([DEC Key]->[ENTER Key])

All symbols and dots are lit.
Alphabet character is displayed one by one.

1-36 METER LED Test

Contents: Visually check if MB2000's LEDs and 7-seg LEDs light correctly in the order specified.

Example of execution screen

--- METER LED ---

OK 1 Channel Bargraph
NG 2 Stereo Bargraph
NG 3 Time Code
NG 4 Others

[ENTER] key to Start

OK NG

EXIT ([DEC Key]->[ENTER Key])

1-32 ENCODER (etc.) Test

Contents: From CH1, check the rotation response of Encoder of other than CH24. The way of operation is the same as 1-31.

Example of execution screen

--- ENCODER(etc.) ---

OK EFFECT1	NG PAN/SURROUND
OK EFFECT2	NG ATT
OK EFFECT3	NG LOW-F
OK EFFECT4	NG LOW-G
OK TIME	NG LOW-MID-F
OK DELAY	NG LOW-MID-G
OK LEVEL1	NG HIGH-MID-F
OK LEVEL2	NG HIGH-MID-G
OK LEVEL3	NG HIGH-F
OK LEVEL4	NG HIGH-G
OK THRESHOLD	NG SOLO CONTRAST
OK RANGE	NG MONITOR LEVEL
OK ATTACK	NG WHEEL
OK DECAY	NG Joystick(L-R)
NG HOLD	NG Joystick(D-U)

Expression of other than Joystick → CCW >-----> CW L >-----> R
D >-----> U

- If judged as OK, the check moves to the next channel.
- If not OK, press the [DEC] key to move to the next check.

Expression of Joystick (When L-R finished, moves to D-U.)

The orders of lighting are as follows:

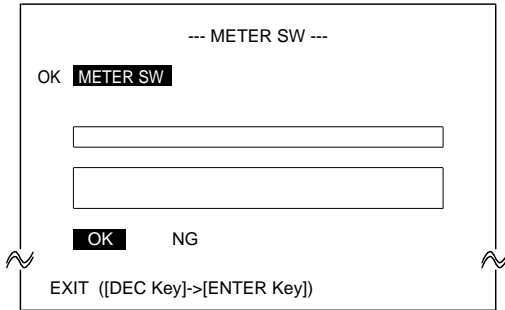
- 1) Channel bar graph is turned on. (LED lighting order: CH1: Lower→Upper..CH24: Lower→Upper)
- 2) Stereo bar graph is turned on. (LED lighting order: Stereo L: Lower→Upper, Stereo R: Lower→Upper)
- 3) TIME CODE: lighting repeated as H10→H1→M10→M1→S10→S1→F10→F1(Lighting order: →1..9→.(dot))
- 4) Other lighting
(CH1-24_1 → CH25-48_1 → .. → BUS1-24_1 → CH1-48_1 → CH49-96_1 → CH1-24_2 → CH25-48_2 → .. → BUS1-24_4 → CH1-48_4 → CH49-96_4 → INPUT PRE EQ → PRE FADER → .. → OUTPUT PRE FADER → POST FADER → PEAK HOLD SW → 1-24 SW → 25-48 SW → .. → MASTER SW → REMOTE1 SW → .. → REMOTE4 SW → 1-48 SW → 49-96 SW → CONTROL ROOM)

1-37 METER SW Test

Contents: Press the SWs of MB2000 to check if the corresponding LED turns ON/OFF.

Correspondence between SWs and LEDs is as follow:

Example of execution screen



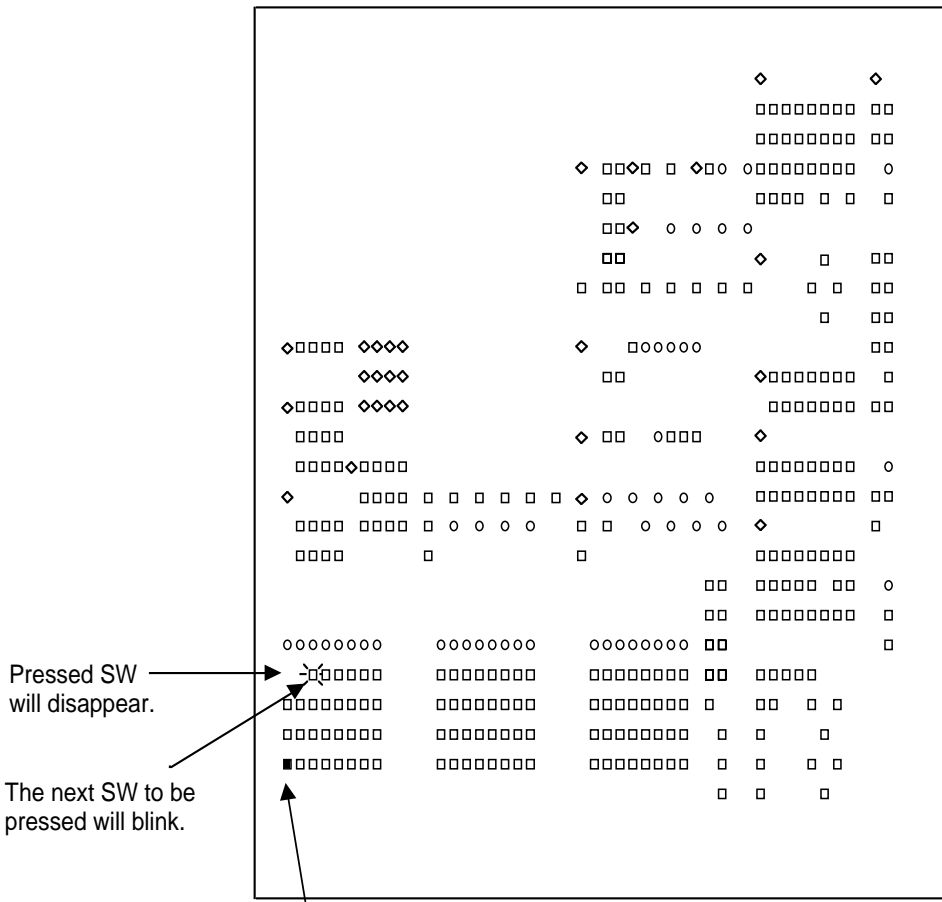
Switch	LED
INPUT METERING POSTION	PRE EQ
OUTPUT METERING POSTION	PRE EQ
PEAK HOLD	PEAK HOLD
1-24	1-24
25-48	25-48
49-72	49-72
73-96	73-96
MASTER	MASTER
1-48	1-48
49-96	49-96
REMOTE1	REMOTE1
REMOTE2	REMOTE2
REMOTE3	REMOTE3
REMOTE4	REMOTE4
CONTROL ROOM	CONTROL ROOM

2. Supplement

LCD Display Fig.1 PANEL SW operation sequence Screen

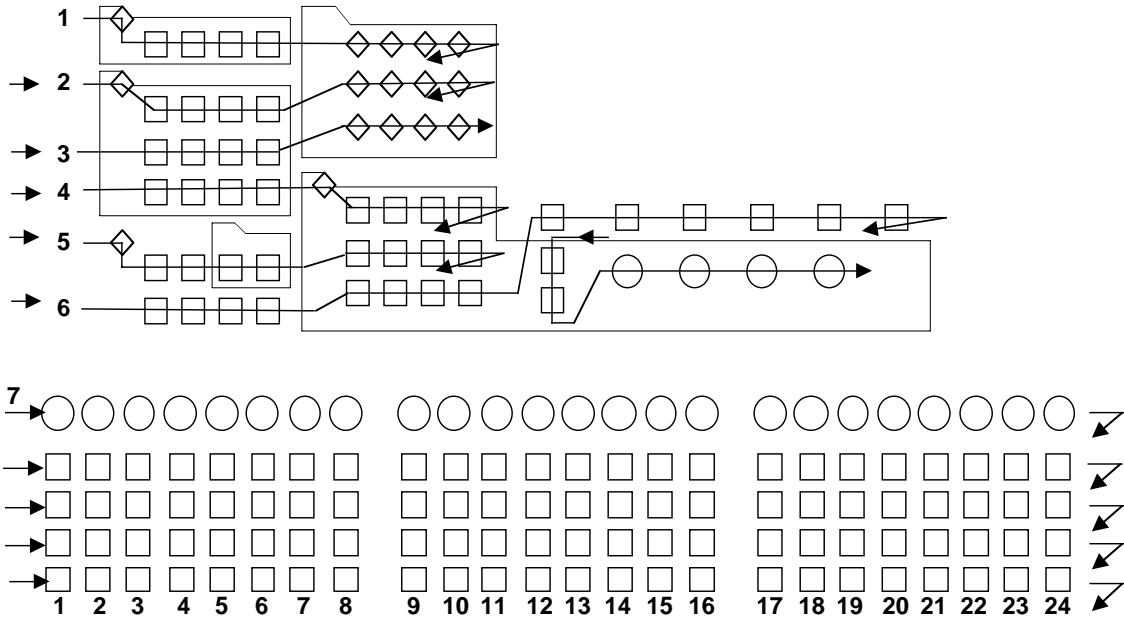
(For operation sequence, see "SW operation Fig.1 and 2.)

LCD display: 53 columns x 30 lines (320 x 240 dots with Font5x7)

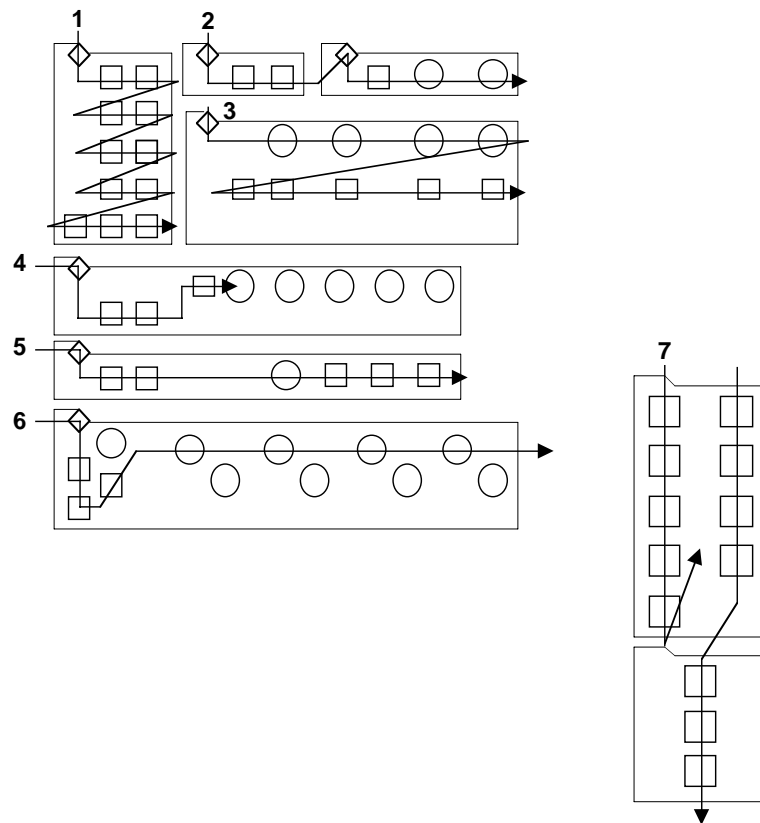


SW Operation Fig.1

GROUP1

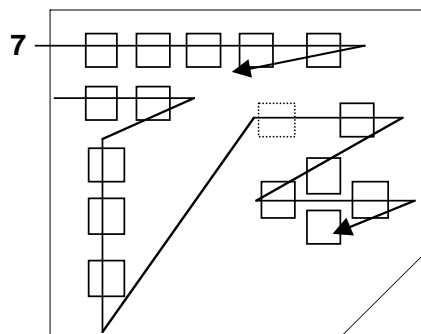
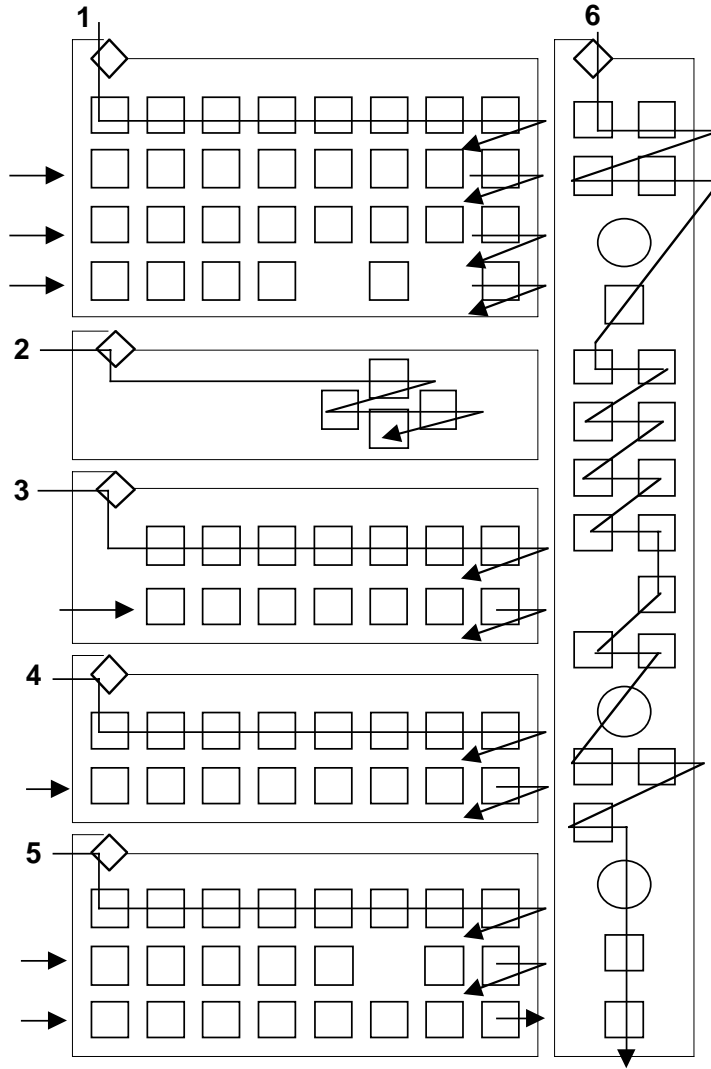


GROUP2

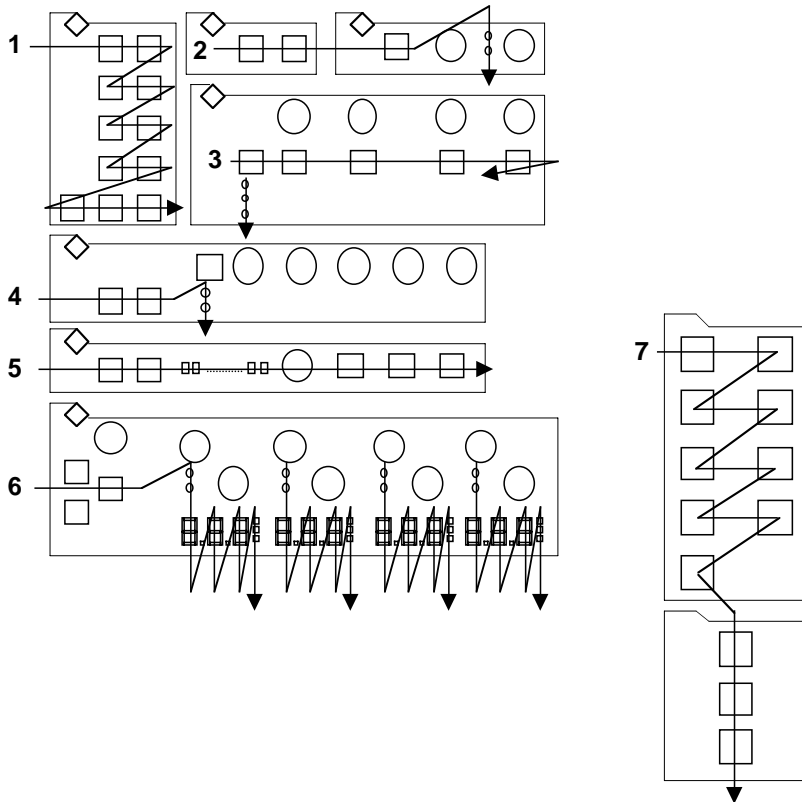
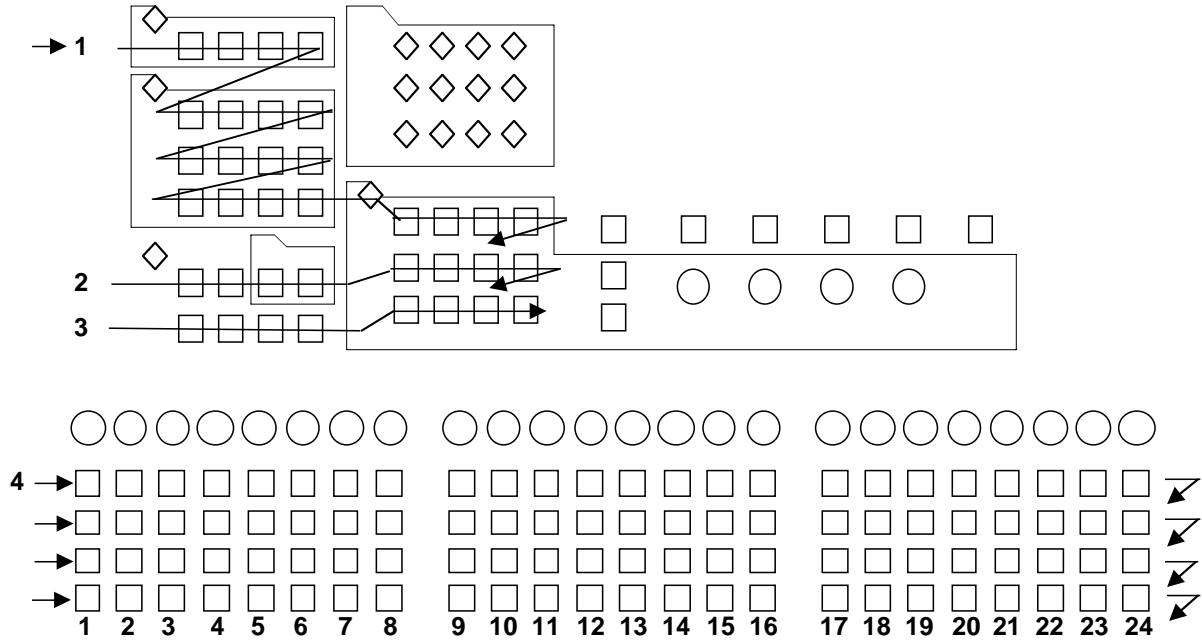


SW Operation Fig.2

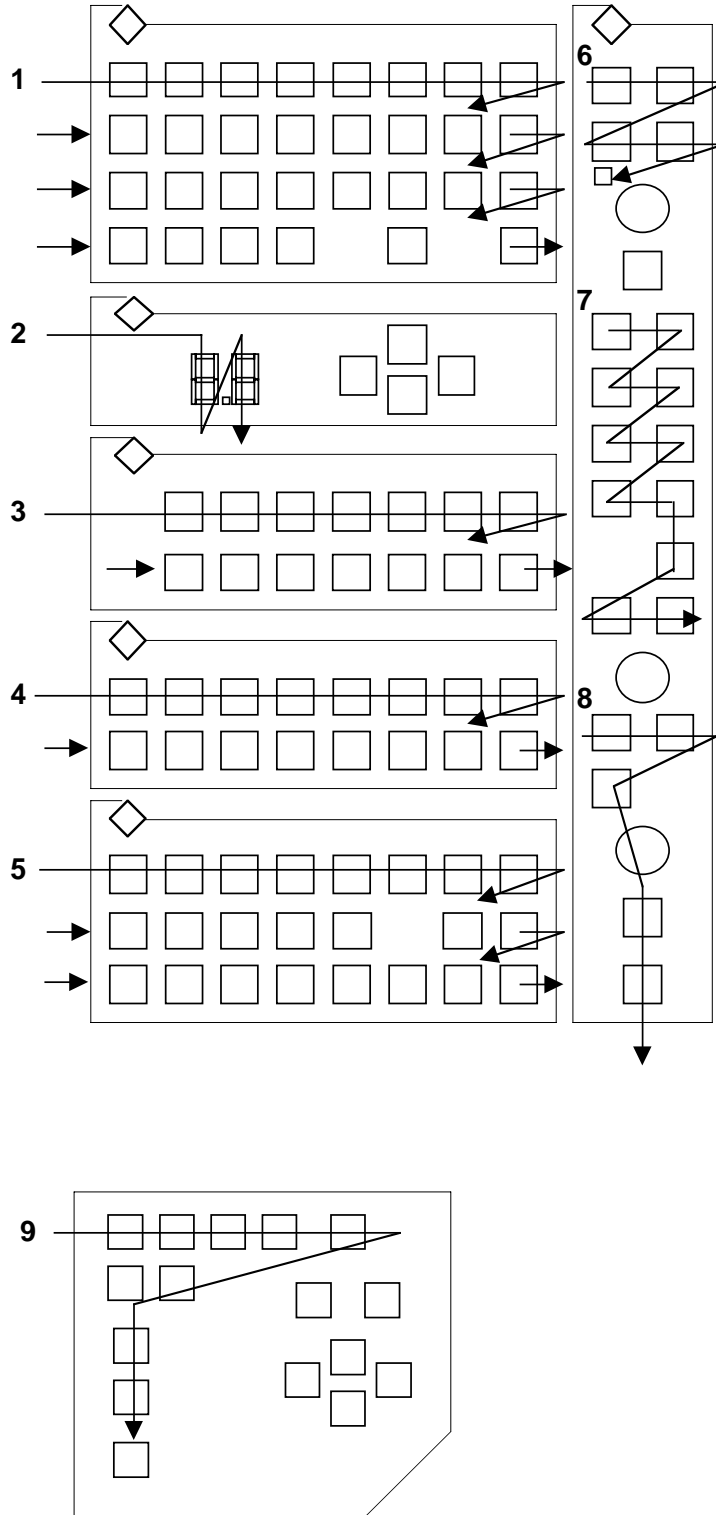
GROUP3



LED Lighting Sequence Fig.1



LED Lighting Sequence Fig.2



■ TEST PROGRAM

* Execute the test program for MB2000.

1. Preparation

- 1) Connect the D-sub 15pin cable to the [MBTER] terminal in the rear of DM2000.
- 2) If DM2000 is not provided, supply +12V between +12V and GND from an external power supply.
Note) Loop Back test will result in ERROR if independent test is carried out with being connected to the body of DM2000.

2. Starting the test program

- 1) Turn on the power while pressing the [PEAK HOLD] switch and the [CONTROL ROOM] switch to go to the independent test mode and start the SW check.
- 2) Press the [PEAK HOLD] switch and the [CONTROL ROOM] switch again to start the LED check 1. (To restart the SW check, turn on the power once again.)
- 3) After this, the test item will be changed by pressing the [REMOTE 1] switch and the [REMTTE 2] switch.
- 4) Pressing [1-48] switch and [49-96] switch will change LED light duration time.

3. Check items

3-1 SW check

Judge by LED light ON/OFF when each switch is pressed.

Switch	Action
INPUT METERING POSTION	PRE EQ turned ON/OFF
OUTPUT METERING POSTION	PRE EQ turned ON/OFF
PEAK HOLD	PEAK HOLD LED turned ON/OFF
1-24	1-24 LED turned ON/OFF
25-48	25-48 LED turned ON/OFF
49-72	49-72 LED turned ON/OFF
73-96	73-96 LED turned ON/OFF
MASTER	MASTER LED turned ON/OFF
1-48	1-48 LED turned ON/OFF
49-96	49-96 LED turned ON/OFF
REMOTE1	REMOTE1 LED turned ON/OFF
REMOTE2	REMOTE2 LED turned ON/OFF
REMOTE3	REMOTE3 LED turned ON/OFF
REMOTE4	REMOTE4 LED turned ON/OFF
CONTROL ROOM	CONTROL ROOM LED turned ON/OFF

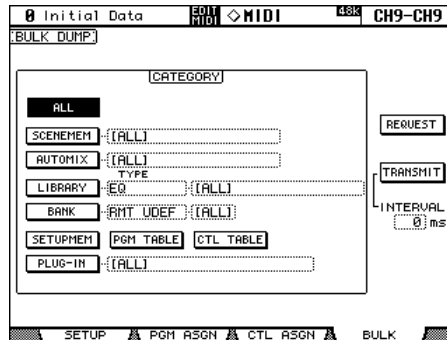
3-2 LED check

Check number	Check item
1	Communication Loop Back test Normal:'0', Error:H10='E'
REMOTE↓↑REMOTE2	
2	LED full bright
3	Green LED full bright
4	Orange LED full bright
5	Red LED full bright
6	Channel bar-graph turned ON (LED light sequence: CH1: lower → upper..CH24: lower → upper)
7	Stereo bar-graph turned ON (LED light sequence: STEREO L: lower → upper, STEREO R: lower → upper)
8	Other lights turned ON (CH1-24_1 → CH25-48_1 → .. → BUS1-24_1 → CH1-48_1 → CH49-96_1 → CH1-24_2 → CH25-48_2 → .. → BUS1-24_4 → CH1-48_4 → CH49-96_4 → INPUT PRE EQ → PRE FADER → .. → OUTPUT PRE FADER → POST FADER → PEAK HOLD SW → 1-24 SW → 25-48 SW → .. → MASTER SW → 1-48 SW → REMOTE1 SW → .. → REMOTE4 SW → 49-96 SW → CONTROL ROOM)
9	TIME CODE H10 → H1 → M10 → M1 → S10 → S1 → F10 → F1 Repeat this sequence. (Lighting sequence: 0 → 1..9 → . (dot))

■ USING BULK DUMP

DM2000 data can be stored to an external MIDI device, such as a MIDI data filer, by using MIDI Bulk Dump.

- 1 Use the **DISPLAY ACCESS [MIDI]** button to locate the Bulk Dump page.



- 2 To transmit data, use the **CATEGORY** parameters to select the type of data you want to transmit, select the **TRANSMIT** button, and then press **[ENTER]**.
- 3 To receive data, use the **CATEGORY** parameters to select the type of data you want to receive, select the **REQUEST** button, and then press **[ENTER]**.

The **INTERVAL** parameter sets the interval between data packets during transmission.

The **CATEGORY** parameters can be set as follows:

ALL: All data.

SCENE MEM: ALL Scenes, individual Scenes, or current (i.e., the Edit buffer).

AUTOMIX: ALL Automixes, individual Automixes, or the current Automix.

LIBRARY: The following libraries: EQ, Gate, Comp, Channel, Effects, GEQ, Bus to Stereo, Input Patch, Output Patch, Surround Monitor. For each library you can specify ALL user memories, individual user memories, and for the Bus to Stereo, Input Patch, Output Patch, Surround Monitor libraries you can also specify the current settings.

BANK: User Defined Remote Layer banks, User Defined Plug-Ins banks, or the User Defined Keys banks. For each item you can specify ALL or individual banks.

SETUP MEM: DM2000 setup data (i.e., system settings).

PGM TABLE: Scene to MIDI Program Change table.

CTL TABLE: Parameter to MIDI Control Change table.

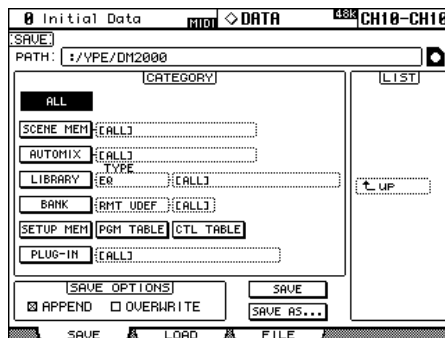
PLUG-IN: The settings of any installed Y56K cards. You can specify ALL Slots or Slots 4–6 individually.

SAVING DM2000 DATA TO SMARTMEDIA

Saving

DM2000 Data can be saved to SmartMedia as follows.

- 1 Use the **DISPLAY ACCESS [DATA]** button to locate the **Save** page.



- 2 Insert your **SmartMedia** card into the **CARD** slot.

If the card doesn't have a "/YPE/DM2000" directory, a confirmation message appears and you should choose YES to make the directory.

The **LIST** box displays files and directories alphabetically. Only files of the currently selected **CATEGORY** are displayed. All files are displayed when the **CATEGORY** is set to **ALL**. Use the cursor buttons to select the **LIST** box, and then use the Parameter wheel or **INC/DEC** buttons to select files and directories. Directories have a small "D" next to their name. You can open the currently selected directory by pressing **[ENTER]**. To move up the directory structure, select "up," and then press **[ENTER]**. You cannot move up beyond the "/YPE/DM2000" directory.

The **PATH** box indicates the path of the currently selected file. The SmartMedia icon to the right of the **PATH** box indicates whether or not a SmartMedia card is inserted: "O" when a card is inserted, "X" when no card is inserted.

- 3 To save data, use the **CATEGORY** parameters to select the type of data you want to save, use the **LIST** box to select where you want to save the data, select the **SAVE** button, and then press **[ENTER]**.

When the Title Edit window appears, enter a filename, and press **OK** when you've finished.

You can save data with a different name by using the **SAVE AS** button.

When saving individual items, such as Scenes or library memories, you can use the **SAVE OPTIONS** **APPEND** and **OVERWRITE** to append individual memories to existing files or to overwrite them. The **SAVE OPTIONS** are unavailable when **ALL**, or **SCENE MEM ALL**, **AUTOMIX ALL**, **LIBRARY ALL**, **BANK ALL**, or **PLUG IN ALL** is selected. The **CATEGORY** parameters can be set as follows:

ALL: Saves all data.

SCENE MEM: Saves Scenes. You can save **ALL** Scenes, individual Scenes, or the Edit Buffer (i.e., the current Scene).

AUTOMIX: Saves Automixes. You can save ALL Automixes, individual Automixes, or the current Automix.

LIBRARY: Saves the following libraries: EQ, Gate, Comp, Channel, Effects, GEQ, Bus to Stereo, Input Patch, Output Patch, Surround Monitor. For each library you can select ALL user memories, individual user memories, and for the Bus to Stereo, Input Patch, Output Patch, Surround Monitor libraries you can also select the current settings.

BANK: Saves the User Defined Remote banks, User Defined Plug-Ins banks, or the User Defined Keys banks. For each item you can select ALL or individual banks.

SETUP MEM: Saves the DM2000 setup data (i.e., system settings).

PGM TABLE: Saves the Scene to MIDI Program Change table.

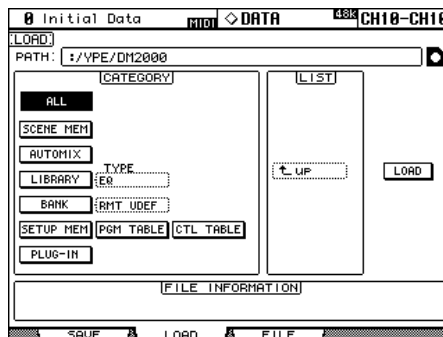
CTL TABLE: Saves the Parameter to MIDI Control Change table.

PLUG-IN: Saves the settings of the effects processing cards installed in the Slots. You can save ALL Slots or individual Slots.

Loading

DM2000 data can be loaded from SmartMedia as follows.

- 1 Use the DISPLAY ACCESS [DATA] button to locate the Load page.



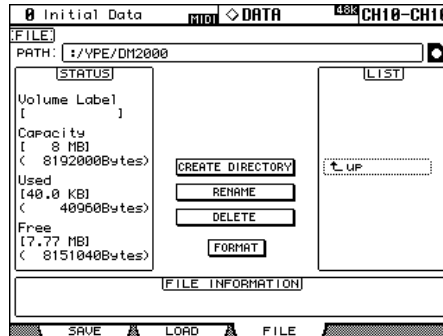
- 2 Insert your SmartMedia card into the CARD slot.
- 3 To load data, use the buttons in the CATEGORY box to select the type of file you want to load, select a file in the LIST box, select the LOAD button, and then press [ENTER].

The FILE INFORMATION box displays the filename and the date when the currently selected file was last stored. See “Saving” on page 184 for information on the PATH and LIST boxes and the SmartMedia icon.

Managing Files & SmartMedia

Files stored on SmartMedia can be renamed and deleted as follows.

- 1 Use the **DISPLAY ACCESS [DATA]** button to locate the File page.

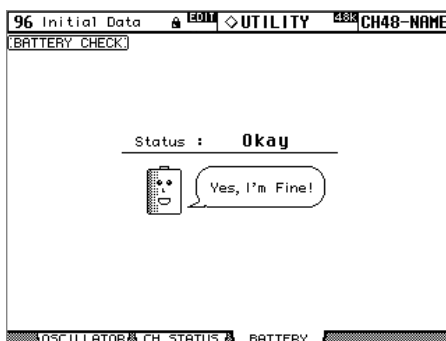


- 2 **Insert your SmartMedia card into the CARD slot.**
If the card doesn't have a "/YPE/DM2000" directory, a confirmation message appears and you should choose YES to make the directory.
The FILE INFORMATION box displays the filename and the date when the currently selected file was last stored. See "Saving" on page 184 for information on the PATH and LIST boxes and the SmartMedia icon.
The STATUS box displays information about the currently inserted SmartMedia card, including, its Volume Label, total Capacity, amount of Used space, and amount of Free space.
- 3 **To create a new directory, use the LIST box to select the directory in which you want to create the new directory, select the CREATE DIRECTORY button, and then press [ENTER].**
When the Title Edit window appears, enter a name for the new directory, and press OK when you've finished.
- 4 **To rename a file or directory, use the LIST box to select that file or directory, select the RENAME button, and then press [ENTER].**
When the Title Edit window appears, edit the name, and press OK when you've finished.
- 5 **To delete a file or directory, use the LIST box to select that file or directory, select the DELETE button, and then press [ENTER].**
- 6 **To format a SmartMedia card, select the FORMAT button, and press [ENTER].**
When the Title Edit window appears, enter a volume label for the card, and press OK when you've finished. The directory "/YPE/DM2000" is created automatically.

■ CHECKING THE BATTERY

The condition of the internal memory-backup battery can be checked as follows.

- 1 Use the **DISPLAY ACCESS [UTILITY]** button to locate the Battery Check page.



If the Status is “Okay,” the battery is okay. If the Status is “Getting Low,” failure to replace a low battery may result in data loss.

■ INITIALIZING THE DM2000

The DM2000 can be initialized as follows.

Warning: This procedure will clear all user memories and reset all settings to their initial values. You may want to back up any important data beforehand via MIDI Bulk Dump (see page 183), or to SmartMedia (see page 184). If you want to reset just the mix settings, recall scene memory #0 instead.

- 1 Turn off the DM2000.
- 2 While holding down the **SCENE MEMORY [STORE]** button, turn on the DM2000.
- 3 When the confirmation message appears, release the **SCENE MEMORY [STORE]** button, select **YES**, and press **[ENTER]**.

The following message is displayed while initialization is in progress: “Loading Factory Presets & Calibrating the Faders... Do Not Touch the Faders!”

It’s important that you do not touch the faders while this message is displayed.

The display returns to normal when initialization is complete.

■ MIDI DATA FORMAT

Scene Memory to Program Change Table

Program Change #	Initial Scene #	User Scene #
1	01	
2	02	
3	03	
4	04	
5	05	
6	06	
7	07	
8	08	
9	09	
10	10	
11	11	
12	12	
13	13	
14	14	
15	15	
16	16	
17	17	
18	18	
19	19	
20	20	
21	21	
22	22	
23	23	
24	24	
25	25	
26	26	
27	27	
28	28	
29	29	
30	30	
31	31	
32	32	
33	33	
34	34	
35	35	
36	36	
37	37	
38	38	
39	39	
40	40	
41	41	
42	42	
43	43	

Program Change #	Initial Scene #	User Scene #
44	44	
45	45	
46	46	
47	47	
48	48	
49	49	
50	50	
51	51	
52	52	
53	53	
54	54	
55	55	
56	56	
57	57	
58	58	
59	59	
60	60	
61	61	
62	62	
63	63	
64	64	
65	65	
66	66	
67	67	
68	68	
69	69	
70	70	
71	71	
72	72	
73	73	
74	74	
75	75	
76	76	
77	77	
78	78	
79	79	
80	80	
81	81	
82	82	
83	83	
84	84	
85	85	
86	86	

Program Change#	Initial Scene #	User Scene #
87	87	
88	88	
89	89	
90	90	
91	91	
92	92	
93	93	
94	94	
95	95	
96	96	
97	97	
98	98	
99	99	
100	00	
101	—	
102	—	
103	—	
104	—	
105	—	
106	—	
107	—	
108	—	
109	—	
110	—	
111	—	
112	—	
113	—	
114	—	
115	—	
116	—	
117	—	
118	—	
119	—	
120	—	
121	—	
122	—	
123	—	
124	—	
125	—	
126	—	
127	—	
128	—	

Initial Parameter to Control Change Table

#	High	Mid	Low
0	NO ASSIGN		
1	FADER H	CHANNEL	INPUT1
2	FADER H	CHANNEL	INPUT2
3	FADER H	CHANNEL	INPUT3
4	FADER H	CHANNEL	INPUT4
5	FADER H	CHANNEL	INPUT5
6	FADER H	CHANNEL	INPUT6
7	FADER H	CHANNEL	INPUT7
8	FADER H	CHANNEL	INPUT8
9	FADER H	CHANNEL	INPUT9
10	FADER H	CHANNEL	INPUT10
11	FADER H	CHANNEL	INPUT11
12	FADER H	CHANNEL	INPUT12
13	FADER H	CHANNEL	INPUT13
14	FADER H	CHANNEL	INPUT14
15	FADER H	CHANNEL	INPUT15
16	FADER H	CHANNEL	INPUT16
17	FADER H	CHANNEL	INPUT17
18	FADER H	CHANNEL	INPUT18
19	FADER H	CHANNEL	INPUT19
20	FADER H	CHANNEL	INPUT20
21	FADER H	CHANNEL	INPUT21
22	FADER H	CHANNEL	INPUT22
23	FADER H	CHANNEL	INPUT23
24	FADER H	CHANNEL	INPUT24
25	FADER H	CHANNEL	INPUT25
26	FADER H	CHANNEL	INPUT26
27	FADER H	CHANNEL	INPUT27
28	FADER H	CHANNEL	INPUT28
29	FADER H	CHANNEL	INPUT29
30	FADER H	CHANNEL	INPUT30
31	FADER H	CHANNEL	INPUT31
32	NO ASSIGN		
33	FADER L	CHANNEL	INPUT1
34	FADER L	CHANNEL	INPUT2
35	FADER L	CHANNEL	INPUT3
36	FADER L	CHANNEL	INPUT4
37	FADER L	CHANNEL	INPUT5
38	FADER L	CHANNEL	INPUT6
39	FADER L	CHANNEL	INPUT7
40	FADER L	CHANNEL	INPUT8
41	FADER L	CHANNEL	INPUT9
42	FADER L	CHANNEL	INPUT10
43	FADER L	CHANNEL	INPUT11
44	FADER L	CHANNEL	INPUT12
45	FADER L	CHANNEL	INPUT13
46	FADER L	CHANNEL	INPUT14
47	FADER L	CHANNEL	INPUT15
48	FADER L	CHANNEL	INPUT16
49	FADER L	CHANNEL	INPUT17
50	FADER L	CHANNEL	INPUT18
51	FADER L	CHANNEL	INPUT19
52	FADER L	CHANNEL	INPUT20
53	FADER L	CHANNEL	INPUT21
54	FADER L	CHANNEL	INPUT22
55	FADER L	CHANNEL	INPUT23
56	FADER L	CHANNEL	INPUT24
57	FADER L	CHANNEL	INPUT25
58	FADER L	CHANNEL	INPUT26
59	FADER L	CHANNEL	INPUT27

#	High	Mid	Low
60	FADER L	CHANNEL	INPUT28
61	FADER L	CHANNEL	INPUT29
62	FADER L	CHANNEL	INPUT30
63	FADER L	CHANNEL	INPUT31
64	ON	CHANNEL	INPUT1
65	ON	CHANNEL	INPUT2
66	ON	CHANNEL	INPUT3
67	ON	CHANNEL	INPUT4
68	ON	CHANNEL	INPUT5
69	ON	CHANNEL	INPUT6
70	ON	CHANNEL	INPUT7
71	ON	CHANNEL	INPUT8
72	ON	CHANNEL	INPUT9
73	ON	CHANNEL	INPUT10
74	ON	CHANNEL	INPUT11
75	ON	CHANNEL	INPUT12
76	ON	CHANNEL	INPUT13
77	ON	CHANNEL	INPUT14
78	ON	CHANNEL	INPUT15
79	ON	CHANNEL	INPUT16
80	ON	CHANNEL	INPUT17
81	ON	CHANNEL	INPUT18
82	ON	CHANNEL	INPUT19
83	ON	CHANNEL	INPUT20
84	ON	CHANNEL	INPUT21
85	ON	CHANNEL	INPUT22
86	ON	CHANNEL	INPUT23
87	ON	CHANNEL	INPUT24
88	ON	CHANNEL	INPUT25
89	PAN	CHANNEL	INPUT1
90	PAN	CHANNEL	INPUT2
91	PAN	CHANNEL	INPUT3
92	PAN	CHANNEL	INPUT4
93	PAN	CHANNEL	INPUT5
94	PAN	CHANNEL	INPUT6
95	PAN	CHANNEL	INPUT7
96	PAN	CHANNEL	INPUT8
97	PAN	CHANNEL	INPUT9
98	PAN	CHANNEL	INPUT10
99	PAN	CHANNEL	INPUT11
100	PAN	CHANNEL	INPUT12
101	PAN	CHANNEL	INPUT13
102	PAN	CHANNEL	INPUT14
103	PAN	CHANNEL	INPUT15
104	PAN	CHANNEL	INPUT16
105	PAN	CHANNEL	INPUT17
106	PAN	CHANNEL	INPUT18
107	PAN	CHANNEL	INPUT19
108	PAN	CHANNEL	INPUT20
109	PAN	CHANNEL	INPUT21
110	PAN	CHANNEL	INPUT22
111	PAN	CHANNEL	INPUT23
112	PAN	CHANNEL	INPUT24
113	PAN	CHANNEL	INPUT25
114	PAN	CHANNEL	INPUT1
115	PAN	CHANNEL	INPUT2
116	PAN	CHANNEL	INPUT3
117	PAN	CHANNEL	INPUT4
118	PAN	CHANNEL	INPUT5
119	PAN	CHANNEL	INPUT6

MIDI Data Format

1. CHANNEL MESSAGE

Command	rx/tx	function
8n NOTE OFF	rx	Control the internal effects
9n NOTE ON	rx	Control the internal effects
Bn CONTROL CHANGE	rx/tx	Control parameters
Cn PROGRAM CHANGE	rx/tx	Switch scene memories

2. SYSTEM COMMON MESSAGE

Command	rx/tx	function
F1 MIDI TIME CODE QUARTER FRAME	rx	Used when TIME REFERENCE is MIDI CLOCK.
F2 SONG POSITION POINTER	rx	Used when TIME REFERENCE is MIDI CLOCK.

3. SYSTEM REALTIME MESSAGE

Command	rx/tx	function
F8 TIMING CLOCK	rx	MIDI clock
FA START	rx*	Start automix (from the beginning)
FB CONTINUE	rx*	Start automix (from the middle)
FC STOP	rx*	Stop automix
FE ACTIVE SENSING	rx	Check MIDI cable connections
FF RESET	rx	Clear running status

Received only when the Automix TIME REFERENCE setting is MIDI CLOCK.

4. EXCLUSIVE MESSAGE

4.1 Real Time System Exclusive

Command	rx/tx	function
F0 7F dd 06 MMC COMMAND	tx	MMC command (refer to MMC specification)
F0 7F dd 07 MMC RESPONSE	rx	MMC response (refer to MMC specification)
F0 7F dd 01 MIDI TIME CODE	rx	Used when TIME REFERENCE is MTC.

4.2 System Exclusive Message

4.2.1 Bulk Dump

Command	rx/tx	function
F0 43 0n 7E BULK DUMP DATA	rx/tx	BULK DUMP DATA
F0 43 2n 7E BULK DUMP REQUEST	rx/tx	BULK DUMP REQUEST

The following data types of bulk dump are used on the DM2000.

Data name	tx/rx	function
'm'	tx/rx	Scene Memory & Request
'S'	tx/rx	Setup Memory & Request
'a'	tx/rx	Automix data & Request
'R'	tx/rx	Input patch library & Request
'O'	tx/rx	Output patch library & Request
'H'	tx/rx	Channel library & Request
'G'	tx/rx	Gate library & Request
'Y'	tx/rx	Compressor library & Request
'Q'	tx/rx	Equalizer library & Request
'E'	tx/rx	Effect library & Request
'F'	tx/rx	GEQ library & Request
'J'	tx/rx	Bus to Stereo library & Request
'K'	tx/rx	Surround Monitor library & Request
'P'	tx/rx	Program change table & Request
'C'	tx/rx	Control change table & Request
'L'	tx/rx	User define layer & Request
'I'	tx/rx	Plug-in User define & Request
'V'	tx/rx	User define key & Request
'N'	tx/rx	Plug-in Effect Card Data & Request

4.2.2 PARAMETER CHANGE

Command	rx/tx	function
F0 43 1n 3E 06 PARAMETER CHANGE	rx/tx	DM2000-specific parameter change
F0 43 3n 3E 06 PARAMETER REQUEST	rx/tx	DM2000-specific parameter request
F0 43 1n 3E 7F PARAMETER CHANGE	rx/tx	General purpose digital mixer parameter change
F0 43 3n 3E 7F PARAMETER REQUEST	rx/tx	General purpose digital mixer parameter request

The following data types of parameter change are used by the DM2000.

Type	tx/rx	function
1	tx/rx	Edit buffer
2	tx/rx	Patch data
3	tx/rx	Setup data
4	tx/rx	Backup data
16	tx/rx	Function (recall, store, title, pair)
32	tx/rx	Key remote
33	tx/rx	remote meter
34	tx/rx	remote counter

4.2.3 Card Filer

Command	rx/tx	Function
F0 43 5n CARD FILER	rx/tx	Packet for cardfiler (refer to Card Filer specification)

** tx means that the data can be transmitted from the DM2000. rx means that the data can be received by the DM2000.

Format Details

1. NOTE OFF (8n)

Reception

Received when the [Rx CH] matches.
Used to control effects.

STATUS	1000nnnn	8n	Note off message
DATA	0nnnnnnn	nn	Note number
	0vvvvvvv	vv	Velocity (ignored)

2. NOTE ON (9n)

Reception

Received when the [Rx CH] matches.
Used to control effects.

STATUS	1001nnnn	9n	Note on message
DATA	0nnnnnnn	nn	Note number
	0vvvvvvv	vv	Velocity (1-127: on, 0:off)

3. CONTROL CHANGE (Bn)

Reception

Received when [Control Change Rx] is ON and the [Rx CH] matches. However if [OMNI] is ON, this is received regardless of the channel. If [Control Change ECHO] is ON, these messages are echoed to MIDI OUT. If [TABLE] is selected, parameters will be controlled according to the settings of the [Control assign table]. The parameters that can be set are defined in the CONTROL CHANGE ASSIGN PARAMETER LIST. If [NRPN] is selected, four messages are used to control the defined parameter: NRPN control numbers (62h, 63h) and DATA ENTRY control numbers (06h, 26h). Parameter settings are defined in the CONTROL CHANGE ASSIGN PARAMETER LIST.

Transmission

If [TABLE] is selected, operating the parameters specified in the [Control assign table] will cause these messages to be transmitted on the [Tx CH] if [Control Change TX] is ON. The parameters that can be specified are defined in the CONTROL CHANGE ASSIGN PARAMETER LIST. If [NRPN] is selected, operating the specified parameters will cause data to be transmitted on the [Tx CH] if [Control Change TX] is ON, using four messages: NRPN control numbers (62h, 63h) and DATA ENTRY control numbers (06h, 26h). Parameter settings are defined in the CONTROL CHANGE ASSIGN PARAMETER LIST.

If [TABLE] is selected

STATUS	1011nnnn	Bn	Control change
DATA	0ccccccc	cc	Control number (0-95, 102-119)
	0vvvvvvv	vv	Control value (0-127)

If [NRPN] is selected

STATUS	1011nnnn	Bn	Control change	
DATA	01100010	62	NRPN LSB	
	0vvvvvvv	vv	LSB of parameter number	
STATUS	1011nnnn	Bn	Control change	*1
DATA	01100011	63	NRPN MSB	
	0vvvvvvv	vv	MSB of parameter number	
STATUS	1011nnnn	Bn	Control change	*1
DATA	00100110	26	LSB of data entry	
	0vvvvvvv	vv	LSB of parameter data	
STATUS	1011nnnn	Bn	Control change	*1, *2
DATA	00000110	06	MSB of data entry	*2
	0vvvvvvv	vv	MSB of parameter data	*2

*1) There is no particular need to add the 2nd, 3rd, and 4th status for transmission. However if these are present during reception, they should be received.

*2) Does not need to be transmitted if the parameter data fits within 7 bits.

4. PROGRAM CHANGE (Cn)**Reception**

This message is received if [Program Change RX] is ON and [Rx CH] matches. However if [OMNI] is ON, this is received regardless of the channel.

A scene memory will be recalled according to the settings of the [Program Change Table].

This message will be echoed if [Program Change ECHO] is ON.

Transmission

If [Program Change TX] is ON, this message is transmitted according to the settings of the [Program Change Table] on the [Tx CH] channel when a scene memory is recalled.

If the recalled scene has been assigned to more than one program number, the lowest-numbered program number will be transmitted. Transmission to Studio Manager using Program Change messages will not be performed since there is no guarantee that the contents of the tables will match. (Parameter Changes will always be used.)

STATUS	1100nnnn	Cn	Program change
DATA	0nnnnnnn	nn	Program number (0-127)

5. SONG POSITION POINTER (F2)**Reception**

If this is received when the automix TIME REFERENCE setting is MIDI CLOCK, the automix will move to the song position that was received.

STATUS	11110010	F2	Song position pointer
DATA	0vvvvvvv	vv	Song position LSB
	0vvvvvvv	vv	Song position MSB

6. TIMING CLOCK (F8)**Reception**

If the automix TIME REFERENCE setting is MIDI CLOCK, this message is used to synchronize automix. It is also used to control effects. This message is transmitted 24 times per quarter note.

STATUS	11111000	F8	Timing clock
--------	----------	----	--------------

7. START (FA)**Reception**

This message is received if the automix TIME REFERENCE setting is MIDI CLOCK, and will start the automix. In actuality, automix will start when the next TIMING CLOCK is received after receiving the START message.

STATUS	11111010	FA	Start
--------	----------	----	-------

8. CONTINUE (FB)**Reception**

This message is received if the automix TIME REFERENCE setting is MIDI CLOCK, and will cause automix to start from the current song position. In actuality, automix will start when the next TIMING CLOCK is received after receiving the CONTINUE message.

STATUS	11111011	FB	Continue
--------	----------	----	----------

9. STOP (FC)**Reception**

This message is received if the automix TIME REFERENCE setting is MIDI CLOCK, and will cause automix to stop.

STATUS	11111100	FC	Stop
--------	----------	----	------

10. ACTIVE SENSING (FE)**Reception**

Once this message has been received, the failure to receive any message for an interval of 400 ms or longer will cause MIDI transmission to be initialized, such as by clearing the Running Status.

STATUS	11111101	FE	Active sensing
--------	----------	----	----------------

11. SYSTEM RESET (FF)**Reception**

When this message is received, MIDI communications will be cleared, e.g., by clearing the Running Status.

STATUS	11111111	FF	System reset
--------	----------	----	--------------

12. SYSTEM EXCLUSIVE MESSAGE (F0)**12.1 MIDI MACHINE CONTROL (MMC)**

These messages are transmitted when the Machine Control section of the DM2000 is operated. For details, refer to the MMC specification.

12.2 BULK DUMP

This message sends or receives the contents of various memories stored within the DM2000.

The basic format is as follows.

For DUMP DATA

```
F0 43 0n 7E cc cc <Model ID> tt mm mm [Data ...]
cs F7
```

For DUMP REQUEST

```
F0 43 2n 7E <Model ID> tt mm mm F7
n          Device Number
cc cc     DATA COUNT (the number of bytes that follow this, ending
           before the checksum)
<Model ID> Model ID (for the DM2000, this is 4C 4D 20 20 38 43 31
           32)
tt        DATA TYPE
mm mm    DATA NUMBER
cs        CHECK SUM
```

A unique header (Model ID) is used to determine whether the device is a DM2000.

CHECK SUM is obtained by adding the bytes that follow BYTE COUNT (LOW) and end before CHECK SUM, taking the binary complement of this sum, and then setting bit 7 to 0.

CHECK SUM = (-sum) & 0x7F

Reception

This message is received if [Bulk RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

When a bulk dump is received, it is immediately written into the specified memory.

When a bulk dump request is received, a bulk dump is immediately transmitted.

Transmission

This message is transmitted on the [Tx CH] by key operations in the [MIDI]-[BULK DUMP] screen.

A bulk dump is transmitted on the [Rx CH] in response to a bulk dump

request.

The data area is handled by converting seven words of 8-bit data into eight words of 7-bit data.

[Conversion from actual data into bulk data]

```
d[0~6]: actual data
b[0~7]: bulk data
b[0] = 0;
for( I=0; I<7; I++){
    if( d[I]&0x80){
        b[0] |= 1<<(6-I);
    }
    b[I+1] = d[I]&0x7F;
}
}
```

[Restoration from bulk data into actual data]

```
d[0~6]: actual data
b[0~7]: bulk data
for( I=0; I<7; I++){
    b[0] <<= 1;
    d[I] = b[I+1]+(0x80&b[0]);
}
}
```

12.2.1 Scene memory bulk dump format

The DM2000 can transmit and receive scene memories in compressed form.

```
STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW  0ccccccc cl
              01001100 4C 'L'
              01001101 4D 'M'
              00100000 20 ''
              00100000 20 ''
              00111000 38 '8'
              01000011 43 'C'
              00110001 31 '1'
              00110010 32 '2'
DATA NAME   01101101 6D 'm'
              0mmmmmmmm mh m=0-99, 256(Scene0-99, EDIT BUFFER)
              0mmmmmmmm ml Receive is effective 1-99, 256
BLOCK INFO. 0tttttttt tt total block number(minimum number
              is 0)
              0bbbbbbb bb current block number(0-total block
              number)
DATA        0dddddss ds Scene data of block[mm]
              :
              :
              0dddddss de
CHECK SUM   0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX         11110111 F7 End of exclusive
```

12.2.2 Scene memory bulk dump request format

The second and third bytes of the DATA NAME indicate the scene number that is being requested. If this is 256, the data of the edit buffer will be bulk-dumped.

```
STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
              01001100 4C 'L'
              01001101 4D 'M'
              00100000 20 ''
              00100000 20 ''
              00111000 38 '8'
              01000011 43 'C'
              00110001 31 '1'
              00110010 32 '2'
DATA NAME   01101101 6D 'm'
              0mmmmmmmm mh m=0-99, 256(Scene0-99, EDIT BUFFER)
              0mmmmmmmm ml
EOX         11110111 F7 End of exclusive
```

12.2.3 Setup memory bulk dump format

Of the setup memory of the DM2000, this bulk-dumps data other than the User define layer, User define plug-in, User define keys, Control change table, and Program change table.

```
STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW  0ccccccc cl
              01001100 4C 'L'
              01001101 4D 'M'
              00100000 20 ''
              00100000 20 ''
              00111000 38 '8'
              01000011 43 'C'
              00110001 31 '1'
              00110010 32 '2'
DATA NAME   01010011 53 'S'
              00000010 02
              00000000 00 No.256 = Current
BLOCK INFO. 0tttttttt tt total block number(minimum number
              is 0)
              0bbbbbbb bb current block number(0-total block
              number)
DATA        0dddddss ds Setup memory data
              :
              :
              0dddddss de
CHECK SUM   0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX         11110111 F7 End of exclusive
```

12.2.4 Setup memory bulk dump request format

```
STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
              01001100 4C 'L'
              01001101 4D 'M'
              00100000 20 ''
              00100000 20 ''
              00111000 38 '8'
              01000011 43 'C'
              00110001 31 '1'
              00110010 32 '2'
DATA NAME   01010011 53 'S'
              00000010 02
              00000000 00 No.256 = Current
EOX         11110111 F7 End of exclusive
```

12.2.5 User define layer bulk dump format

The second and third bytes of the DATA NAME indicate the bank number.

Be aware that the state of the transmission destination will (in some cases) change if the same bank is being used.

```
STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW  0ccccccc cl
              01001100 4C 'L'
              01001101 4D 'M'
              00100000 20 ''
              00100000 20 ''
              00111000 38 '8'
              01000011 43 'C'
              00110001 31 '1'
              00110010 32 '2'
```

```

DATA NAME 01001100 4C 'L'
           00000000 00
           0bbbbbbb bb b=0-3(bank no.1-4)
BLOCK INFO. 0ttttttt tt total block number(minimum number
           is 0)
           0bbbbbbb bb current block number(0-total block
           number)
DATA        0ddddd ds User define layer
           :
           :
           0ddddd de
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX       11110111 F7 End of exclusive

```

12.2.6 User define layer bulk dump request format

The second and third bytes of the DATA NAME indicate the bank number.

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
           01001100 4C 'L'
           01001101 4D 'M'
           00100000 20 ''
           00100000 20 ''
           00111000 38 '8'
           01000011 43 'C'
           00110001 31 '1'
           00110010 32 '2'
DATA NAME   01001100 4C 'L'
           00000000 00
           0bbbbbbb bb b=0-3(bank no.1-4)
EOX       11110111 F7 End of exclusive

```

12.2.7 User define plug-in bulk dump format

The second and third bytes of the DATA NAME indicate the bank number.

Be aware that the state of the transmission destination will (in some cases) change if the same bank is being used.

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW  0ccccccc cl
           01001100 4C 'L'
           01001101 4D 'M'
           00100000 20 ''
           00100000 20 ''
           00111000 38 '8'
           01000011 43 'C'
           00110001 31 '1'
           00110010 32 '2'
DATA NAME   01001001 49 'I'
           00000000 00
           0bbbbbbb bb b=0-7(bank no.1-8)
BLOCK INFO. 0ttttttt tt total block number(minimum number
           is 0)
           0bbbbbbb bb current block number(0-total block
           number)
DATA        0ddddd ds User define plug-in data
           :
           :
           0ddddd de
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX       11110111 F7 End of exclusive

```

12.2.8 User define plug-in bulk dump request format

The second and third bytes of the DATA NAME indicate the bank number.

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0010nnnn 2n n=0-15 (Device number=MIDI Channel)

```

```

FORMAT No. 01111110 7E Universal bulk dump
           01001100 4C 'L'
           01001101 4D 'M'
           00100000 20 ''
           00100000 20 ''
           00111000 38 '8'
           01000011 43 'C'
           00110001 31 '1'
           00110010 32 '2'
DATA NAME   01001001 49 'I'
           00000000 00
           0bbbbbbb bb b=0-7(bank no.1-8)
EOX       11110111 F7 End of exclusive

```

12.2.9 User Define Key bulk dump format

The second and third bytes of the DATA NAME indicate the bank number.

Be aware that the state of the transmission destination will (in some cases) change if the same bank is being used.

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
COUNT HIGH cccccccc ch data count = ch * 128 + cl
COUNT LOW  cccccccc cl
           01001100 4C 'L'
           01001101 4D 'M'
           00100000 20 ''
           00100000 20 ''
           00111000 38 '8'
           01000011 43 'C'
           00110001 31 '1'
           00110010 32 '2'
DATA NAME   01010110 56 'V'
           00000000 00
           0bbbbbbb bb b=0-3(bank no.A-D)
BLOCK INFO. 0ttttttt tt total block number(minimum number
           is 0)
           0bbbbbbb bb current block number(0-total block
           number)
DATA        0ddddd ds User define key data
           :
           :
           0ddddd de
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX       11110111 F7 End of exclusive

```

12.2.10 User Define Key bulk dump request format

The second and third bytes of the DATA NAME indicate the bank number.

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
           01001100 4C 'L'
           01001101 4D 'M'
           00100000 20 ''
           00100000 20 ''
           00111000 38 '8'
           01000011 43 'C'
           00110001 31 '1'
           00110010 32 '2'
DATA NAME   01010110 56 'V'
BANK No.    00000000 00
           0bbbbbbb bb b=0-3(bank no.A-D)
EOX       11110111 F7 End of exclusive

```

12.2.11 Control change table bulk dump format

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0000nnnn 0n n=0-15 (Device number=MIDI Channel)

```



```

FORMAT No. 01111110 7E Universal bulk dump
COUNT HIGH 00000011 ch data count = ch * 128 + cl
COUNT LOW 00010010 c1
01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'
DATA NAME 01000011 43 'C'
00000000 02
00000000 00 No.256 = Current
BLOCK INFO. 0ttttttt tt total block number(minimum number
is 0)
0bbbbbbb bb current block number(0-total block
number)
DATA 0dtdtdtd ds Control change table data
: : (342/7)*8+(342%7)+1=391bytes
unfixed
0dtdtdtd de
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX 11110111 F7 End of exclusive

```

12.2.12 Control change table bulk dump request format

```

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'
DATA NAME 01000011 43 'C'
00000000 02
00000000 00 No.256 = Current
EOX 11110111 F7 End of exclusive

```

12.2.13 Program change table bulk dump format

```

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW 0ccccccc c1
01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'
DATA NAME 01010000 50 'P'
00000000 02
00000000 00 No.256 = Current
BLOCK INFO. 0ttttttt tt total block number(minimum number
is 0)
0bbbbbbb bb current block number(0-total block
number)
DATA 0dtdtdtd ds Program change table data
: :
0dtdtdtd de
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX 11110111 F7 End of exclusive

```

12.2.14 Program change table bulk dump request format

```

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'
DATA NAME 01010000 50 'P'
00000000 02
00000000 00 No.256 = Current
EOX 11110111 F7 End of exclusive

```

12.2.15 Equalizer library bulk dump format

The second and third bytes of the DATA NAME indicate the bank number.
 0:Library no.1 - 199:Library no.200, 256:CH1 - 351:CH96, 384:BUS1 - 391:BUS8, 512:AUX1 - 523:AUX12, 640:MATRIX1L - 647:MATRIX4R, 768:STEREO L - 769:STEREO R
 256 and following are data for the corresponding channel of the edit buffer.
 For reception by the DM2000, only the user area is valid. (40-199, 256-)

```

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW 0ccccccc c1
01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'
DATA NAME 01010001 51 'Q'
LIB. No. H 0bbbbbbb bb 0-199(EQ Library no.1-200),
256-(channel current data)
LIB. No. L 0bbbbbbb bb
BLOCK INFO. 0ttttttt tt total block number(minimum number
is 0)
0bbbbbbb bb current block number(0-total block
number)
DATA 0dtdtdtd ds EQ Library data
: :
0dtdtdtd de
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX 11110111 F7 End of exclusive

```

12.2.16 Equalizer library bulk dump request format

The second and third bytes of the DATA NAME indicate the bank number. (See above)

```

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'

```



```

DATA NAME 01010001 51 'Q'
LIB. No. H 0bbbbbbb bb 0-199(EQ Library no.1-200),
256-(channel current data)
LIB. No. L 0bbbbbbb bb
EOX 11110111 F7 End of exclusive

```

12.2.17 Compressor library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.

0:Library no.1 - 127:Library no.128, 256:CH1 - 351:CH96, 384:BUS1 - 391:BUS8, 512:AUX1 - 523:AUX12, 640:MATRIX1L - 647:MATRIX4R, 768:STEREO L - 769:STEREO R

256 and following are data for the corresponding channel of the edit buffer.

For reception by the DM2000, only the user area is valid. (36-127, 256-)

```

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW 0ccccccc cl
01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'

```

```

DATA NAME 01011001 59 'Y'
LIB. No. H 0bbbbbbb bb 0-127(COMP Library no.1-128),
256-(channel current data)
LIB. No. L 0bbbbbbb bb
BLOCK INFO. 0ttttttt tt total block number(minimum number
is 0)
0bbbbbbb bb current block number(0-total block
number)
DATA 0ddddddd ds COMP Library data
: :
0ddddddd de
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX 11110111 F7 End of exclusive

```

12.2.18 Compressor library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number. (See above)

```

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'

```

```

DATA NAME 01011001 59 'Y'
LIB. No. H 0bbbbbbb bb 0-127(COMP Library no.1-128),
256-(channel current data)
LIB. No. L 0bbbbbbb bb
EOX 11110111 F7 End of exclusive

```

12.2.19 Gate library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.

0:Library no.1 - 127:Library no.128, 256:CH1 - 351:CH96

256 and following are data for the corresponding channel of the edit buffer.

For reception by the DM2000, only the user area is valid. (4-127, 256-)

```

STATUS 11110000 F0 System exclusive message

```

```

ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI
Channel)
FORMAT No. 01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW 0ccccccc cl
01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'

```

```

DATA NAME 01000111 47 'G'
LIB. No. H 0bbbbbbb bh 0-127(GATE Library no.1-128),
256-351(channel current data)
LIB. No. L 0bbbbbbb bl
BLOCK INFO. 0ttttttt tt total block number(minimum number
is 0)
0bbbbbbb bb current block number(0-total block
number)
DATA 0ddddddd ds GATE Library data
: :
0ddddddd de
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX 11110111 F7 End of exclusive

```

12.2.20 Gate library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number. (See above)

```

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'

```

```

DATA NAME 01000111 47 'G'
LIB. No. H 0bbbbbbb bh 0-127(GATE Library no.1-128),
256-351(channel current data)
LIB. No. L 0bbbbbbb bl
EOX 11110111 F7 End of exclusive

```

12.2.21 Effect library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.

0:Library no.1 - 127:Library no.128, 256:EFFECT1 - 263:EFFECC8

256-263 are the data for the corresponding area of the edit buffer.

For reception by the DM2000, only the user area is valid. (52-127, 256-263)

```

STATUS 11110000 F0 System exclusive message
ID No. 01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW 0ccccccc cl
01001100 4C 'L'
01001101 4D 'M'
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'
DATA NAME 01000110 46 'E'

```

```

LIB. No. H 0bbbbbbb bh 0-127(Effect Library no.1-128),
                256-263(Effect1-8 current)
LIB. No. L 0bbbbbbb bl
BLOCK INFO. 0ttttttt tt total block number(minimum number
                is 0)
                0bbbbbbb bb current block number(0-total block
                number)
DATA        0ddddd ds Effect Library data
:           :
0ddddd de
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX       11110111 F7 End of exclusive

```

12.2.22 Effect library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number. (See above)

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
            01001100 4C 'L'
            01001101 4D 'M'
            00100000 20 ''
            00100000 20 ''
            00111000 38 '8'
            01000011 43 'C'
            00110001 31 '1'
            00110010 32 '2'
DATA NAME   01000110 46 'E'
LIB. No. H 0bbbbbbb bh 0-127(Effect Library no.1-128),
                256-263(Effect1-8 current)
LIB. No. L 0bbbbbbb bl
EOX        11110111 F7 End of exclusive

```

12.2.23 GEQ library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.

0:Library no.0 - 128:Library no.128, 256:GEQ1 - 261:GEQ6
256-261 are the data for the corresponding area of the edit buffer.
For reception by the DM2000, only the user area is valid. (1-128, 256-261)

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW  0ccccccc cl
            01001100 4C 'L'
            01001101 4D 'M'
            00100000 20 ''
            00100000 20 ''
            00111000 38 '8'
            01000011 43 'C'
            00110001 31 '1'
            00110010 32 '2'
DATA NAME   01000111 47 'F'
LIB. No. H 0bbbbbbb bh 0-128(GEQ Library no.0-128),
                256-261(GEQ1-6 Current)
LIB. No. L 0bbbbbbb bl
BLOCK INFO. 0ttttttt tt total block number(minimum number
                is 0)
                0bbbbbbb bb current block number(0-total block
                number)
DATA        0ddddd ds GEQ Library data
:           :
0ddddd de
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX       11110111 F7 End of exclusive

```

12.2.24 GEQ library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number. (See above)

```

STATUS      11110000 F0 System exclusive message

```

```

ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
            01001100 4C 'L'
            01001101 4D 'M'
            00100000 20 ''
            00100000 20 ''
            00111000 38 '8'
            01000011 43 'C'
            00110001 31 '1'
            00110010 32 '2'
DATA NAME   01000111 47 'F'
LIB. No. H 0bbbbbbb bh 0-128(GEQ Library no.0-128),
                256-261(GEQ1-6 current)
LIB. No. L 0bbbbbbb bl
EOX        11110111 F7 End of exclusive

```

12.2.25 Channel library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.

0:Library no.0 - 128:Library no.128,
256:CH1 - 351:CH96, 384:BUS1 - 391:BUS8, 512:AUX1 - 523:AUX12,
640:MATRIX1L - 647:MATRIX4R, 768:STEREO L - 769:STEREO R
256 and following are the data for the corresponding channel of the edit buffer.

For reception by the DM2000, only the user area is valid. (2-128, 256-)

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW  0ccccccc cl
            01001100 4C 'L'
            01001101 4D 'M'
            00100000 20 ''
            00100000 20 ''
            00111000 38 '8'
            01000011 43 'C'
            00110001 31 '1'
            00110010 32 '2'
DATA NAME   01001001 49 'H'
LIB. No. H 0bbbbbbb bh 0-128(Channel Library no.0-128),
                256-(current)
LIB. No. L 0bbbbbbb bl
BLOCK INFO. 0ttttttt tt total block number(minimum number
                is 0)
                0bbbbbbb bb current block number(0-total block
                number)
DATA        0ddddd ds channel Library data
:           :
0ddddd de
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX       11110111 F7 End of exclusive

```

12.2.26 Channel library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number. (See above)

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
            01001100 4C 'L'
            01001101 4D 'M'
            00100000 20 ''
            00100000 20 ''
            00111000 38 '8'
            01000011 43 'C'
            00110001 31 '1'
            00110010 32 '2'
DATA NAME   01001001 49 'H'
LIB. No. H 0bbbbbbb bh 0-128(Channel Library no.0-128),
                256-(current)

```

```
LIB. No. L 0bbbbbbb b1
EOX      11110111 F7 End of exclusive
```

12.2.27 Input patch library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.

0:Library no.0 - 32:Library no.32, 256:current input patch data
For reception by the DM2000, only the user area is valid. (1-32, 256)

```
STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW  0ccccccc cl
            01001100 4C 'L'
            01001101 4D 'M'
            00100000 20 ''
            00100000 20 ''
            00111000 38 '8'
            01000011 43 'C'
            00110001 31 '1'
            00110010 32 '2'
DATA NAME   01010010 52 'R'
            0bbbbbbb bh 0-32(Library no.0-32), 256(Current
            0bbbbbbb b1 data)
BLOCK INFO. 0ttttttt tt total block number(minimum number
            0bbbbbbb bb current block number(0-total block
            is 0) number)
DATA        0ddddd ds Input Patch Library data
            :
            0ddddd de
CHECK SUM   0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX        11110111 F7 End of exclusive
```

12.2.28 Input patch library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number.

0:Library no.0 - 32:Library no.32, 256:current input patch data

```
STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
            01001100 4C 'L'
            01001101 4D 'M'
            00100000 20 ''
            00100000 20 ''
            00111000 38 '8'
            01000011 43 'C'
            00110001 31 '1'
            00110010 32 '2'
DATA NAME   01010010 52 'R'
            0bbbbbbb bh 0-32(Library no.0-32), 256(Current
            0bbbbbbb b1 data)
EOX        11110111 F7 End of exclusive
```

12.2.29 Output patch library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.

0:Library no.0 - 32:Library no.32, 256:current output patch data
For reception by the DM2000, only the user area is valid. (1-32, 256)

```
STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW  0ccccccc cl
            01001100 4C 'L'
            01001101 4D 'M'
```

```
00100000 20 ''
00100000 20 ''
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'
DATA NAME   01001111 4F 'O'
            0bbbbbbb bh 0-32(Library no.0-32), 256(Current
            00100000 b1 data)
BLOCK INFO. 0ttttttt tt total block number(minimum number
            0bbbbbbb bb current block number(0-total block
            is 0) number)
DATA        0ddddd ds Input Patch Library data
            :
            0ddddd de
CHECK SUM   0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX        11110111 F7 End of exclusive
```

12.2.30 Output patch library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number.

0:Library no.0 - 32:Library no.32, 256:current output patch data

```
STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
            01001100 4C 'L'
            01001101 4D 'M'
            00100000 20 ''
            00100000 20 ''
            00111000 38 '8'
            01000011 43 'C'
            00110001 31 '1'
            00110010 32 '2'
DATA NAME   01001111 4F 'O'
            0bbbbbbb bh 0-32(Library no.0-32), 256(Current
            0bbbbbbb b1 data)
EOX        11110111 F7 End of exclusive
```

12.2.31 Bus to Stereo library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.

0:Library no.0 - 32:Library no.32, 256:current data

For reception by the DM2000, only the user area is valid.

```
STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No.  01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW  0ccccccc cl
            01001100 4C 'L'
            01001101 4D 'M'
            00100000 20 ''
            00100000 20 ''
            00111000 38 '8'
            01000011 43 'C'
            00110001 31 '1'
            00110010 32 '2'
DATA NAME   01001010 4A 'J'
            0bbbbbbb bh 0-32(Library no.0-32), 256(Current
            0bbbbbbb b1 data)
BLOCK INFO. 0ttttttt tt total block number(minimum number
            0bbbbbbb bb current block number(0-total block
            is 0) number)
DATA        0ddddd ds Input Patch Library data
            :
            0ddddd de
```

```
CHECK SUM 0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX      11110111 F7 End of exclusive
```

12.2.32 Bus to Stereo library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number.

0:Library no.0 - 32:Library no.32, 256:current data

```
STATUS      11110000 F0 System exclusive message
ID No.     01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
           01001100 4C 'L'
           01001101 4D 'M'
           00100000 20 ''
           00100000 20 ''
           00111000 38 '8'
           01000011 43 'C'
           00110001 31 '1'
           00110010 32 '2'
DATA NAME  01001010 4A 'J'
           0bbbbbbb bh 0-32 (Library no.0-32), 256 (Current
           0bbbbbbb b1 data)
EOX      11110111 F7 End of exclusive
```

12.2.33 Surround Monitor library bulk dump format

The second and third bytes of the DATA NAME indicate the library number.

0:Library no.0 - 32:Library no.32, 256:current data

For reception by the DM2000, only the user area is valid. (1-32, 256)

```
STATUS      11110000 F0 System exclusive message
ID No.     01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW  0ccccccc cl
           01001100 4C 'L'
           01001101 4D 'M'
           00100000 20 ''
           00100000 20 ''
           00111000 38 '8'
           01000011 43 'C'
           00110001 31 '1'
           00110010 32 '2'
DATA NAME  01001011 4B 'K'
           0bbbbbbb bh 0-32(Library no.0-32), 256(Current
           0bbbbbbb b1 data)
BLOCK INFO. 0ttttttt tt total block number(minimum number
           0bbbbbbb bb current block number(0-total block
           is 0)
DATA        0ddddddd ds Input Patch Library data
           :          :
           0ddddddd de
CHECK SUM  0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX      11110111 F7 End of exclusive
```

12.2.34 Surround Monitor library bulk dump request format

The second and third bytes of the DATA NAME indicate the library number.

0:Library no.0 - 32:Library no.32, 256:current data

```
STATUS      11110000 F0 System exclusive message
ID No.     01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
           01001100 4C 'L'
           01001101 4D 'M'
           00100000 20 ''
           00100000 20 ''
```

```
00111000 38 '8'
01000011 43 'C'
00110001 31 '1'
00110010 32 '2'
DATA NAME  01001011 4B 'K'
           0bbbbbbb bh 0-32(Library no.0-32), 256(Current
           0bbbbbbb b1 data)
EOX      11110111 F7 End of exclusive
```

12.2.35 Plug-in effect card bulk dump format

The second byte of the DATA NAME indicates the slot number.

0:SLOT 1 - 5:SLOT 6

The data is not received if the Developer ID and Product ID are different than the card that is installed in the slot.

The data is not transmitted if a valid plug-in effect card is not installed.

```
STATUS      11110000 F0 System exclusive message
ID No.     01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0000nnnn 0n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
COUNT HIGH 0ccccccc ch data count = ch * 128 + cl
COUNT LOW  0ccccccc cl
           01001100 4C 'L'
           01001101 4D 'M'
           00100000 20 ''
           00100000 20 ''
           00111000 38 '8'
           01000011 43 'C'
           00110001 31 '1'
           00110010 32 '2'
DATA NAME  01000001 41 'N'
           0mmmmmmmm mh 0-5 (SLOT1-6)
           0mmmmmmmm ml
DATA        0xxxxxxx xh block count (High)
           0xxxxxxx xl block count (Low)
           0yyyyyyy yh total size (High)
           0yyyyyyy yl total size (Low)
           0000iiii Developer id (High)
           0000iiii Developer id (Low)
           0000jjjj Product id (High)
           0000jjjj Product id (Low)
           0ddddddd ds Plug-in Effect card memory data
           :          : (1024/7)*8+(1024%7)+1=1171bytes
           0ddddddd de
CHECK SUM  0eeeeeee ee ee=(Invert('L'+...+de)+1)&0x7F
EOX      11110111 F7 End of exclusive
```

12.2.36 Plug-in effect card bulk dump request format

The second byte of the DATA NAME indicates the library number.

0:SLOT 1 - 5:SLOT 6

```
STATUS      11110000 F0 System exclusive message
ID No.     01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS 0010nnnn 2n n=0-15 (Device number=MIDI Channel)
FORMAT No. 01111110 7E Universal bulk dump
           01001100 4C 'L'
           01001101 4D 'M'
           00100000 20 ''
           00100000 20 ''
           00111000 38 '8'
           01000011 43 'C'
           00110001 31 '1'
           00110010 32 '2'
DATA NAME  01000001 41 'A'
           0mmmmmmmm mm 0-5 (SLOT1-6)
           0mmmmmmmm ml
EOX      11110111 F7 End of exclusive
```

12.3 PARAMETER CHANGE

12.3.1 Parameter change basic format

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacturer's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	0ttttttt	tt	Data type
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA *)	0ddddddd	dd	Data
	:	:	
EOX	11110111	F7	End of exclusive

For parameters with a data size of 2 or more, data for that size will be transmitted.

12.3.2 Parameter Change basic format (Universal format)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacturer's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	01111111	7F	Universal
ADDRESS	0ttttttt	tt	Data type
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA *)	0ddddddd	dd	Data
	:	:	
EOX	11110111	F7	End of exclusive

For parameters with a data size of 2 or more, data for that size will be transmitted.

12.3.3 Parameter request basic format

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacturer's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	0ttttttt	tt	Data type
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
EOX	11110111	F7	End of exclusive

12.3.4 Parameter request basic format (Universal format)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacturer's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	01111111	7F	Universal
ADDRESS	0ttttttt	tt	Data type
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
EOX	11110111	F7	End of exclusive

12.3.5 Parameter Address

Consult your dealer for parameter address details.

12.3.6 Parameter change (Edit buffer)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When this is received, the specified parameter will be controlled.

Transmission

If [Parameter change TX] is ON and a parameter not specified in the [Control assign table] is modified, this message will be transmitted with the device number specified by the [Tx CH].

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacturer's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	01111111	7F	Universal
ADDRESS	00000001	01	Edit Buffer
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA	0ddddddd	dd	Data
	:	:	
EOX	11110111	F7	End of exclusive

12.3.7 Parameter request (Edit buffer)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When this is received, the value of the specified parameter will be transmitted as a Parameter Change.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacturer's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	01111111	7F	Universal
ADDRESS	00000001	01	Edit Buffer
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
EOX	11110111	F7	End of exclusive

12.3.8 Parameter change (Patch data)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When this is received, the specified parameter will be controlled.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacturer's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	06	DM2000
ADDRESS	00000010	02	Patch data
	0eeeeeee	ee	Element No. (If 'ee' is 0, 'ee' is expanded to two bytes)
	0ppppppp	pp	Parameter No.
	0ccccccc	cc	Channel No.
DATA	0ddddddd	dd	Data
	:	:	
EOX	11110111	F7	End of exclusive

12.3.9 Parameter request (Patch data)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When this is received, the value of the specified parameter will be transmitted as a Parameter Change.

STATUS	11110000	F0	System exclusive message
--------	----------	----	--------------------------

```

ID No.      01000011 43  Manufacture's ID number (YAMAHA)
SUB STATUS  0011nnnn 3n  n=0-15 (Device number=MIDI Channel)
GROUP ID    00111110 3E  MODEL ID (digital mixer)
MODEL ID    00000110 06  DM2000
ADDRESS     00000010 02  Patch data
              0eeeeeee ee  Element No.
              (If 'ee' is 0, 'ee' is expanded to two
              bytes)
              0pppppppp pp  Parameter No.
              0ccccccc cc  Channel No.
EOX         11110111 F7  End of exclusive

```

12.3.10 Parameter change (Setup memory)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When this is received, the value of the specified parameter will be controlled.

```

STATUS      11110000 F0  System exclusive message
ID No.      01000011 43  Manufacture's ID number (YAMAHA)
SUB STATUS  0001nnnn 1n  n=0-15 (Device number=MIDI Channel)
GROUP ID    00111110 3E  MODEL ID (digital mixer)
MODEL ID    00000110 06  DM2000
ADDRESS     00000011 03  Setup memory
              0eeeeeee ee  Element No.
              (If 'ee' is 0, 'ee' is expanded to two
              bytes)
              0pppppppp pp  Parameter No.
              0ccccccc cc  Channel No.
DATA        0ddddd dd  Data
:           :
EOX         11110111 F7  End of exclusive

```

12.3.11 Parameter request (Setup memory)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When this is received, the value of the specified parameter will be transmitted as a Parameter Change.

```

STATUS      11110000 F0  System exclusive message
ID No.      01000011 43  Manufacture's ID number (YAMAHA)
SUB STATUS  0011nnnn 3n  n=0-15 (Device number=MIDI Channel)
GROUP ID    00111110 3E  MODEL ID (digital mixer)
MODEL ID    00000110 06  DM2000
ADDRESS     00000011 03  Setup memory
              0eeeeeee ee  Element No.
              (If 'ee' is 0, 'ee' is expanded to two
              bytes)
              0pppppppp pp  Parameter No.
              0ccccccc cc  Channel No.
EOX         11110111 F7  End of exclusive

```

12.3.12 Parameter change (Backup memory)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When this is received, the value of the specified parameter will be controlled.

```

STATUS      11110000 F0  System exclusive message
ID No.      01000011 43  Manufacture's ID number (YAMAHA)
SUB STATUS  0001nnnn 1n  n=0-15 (Device number=MIDI Channel)
GROUP ID    00111110 3E  MODEL ID (digital mixer)
MODEL ID    00000110 06  DM2000
ADDRESS     00000100 04  Backup memory
              0aaaaaaaa ee  Element No.
              0aaaaaaaa pp  Parameter No.
              0ccccccc cc  Channel No.
DATA        0ddddd dd  Data
:           :

```

```
EOX         11110111 F7  End of exclusive
```

12.3.13 Parameter request (Backup memory)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When this is received, the value of the specified parameter will be transmitted as a Parameter Change.

```

STATUS      11110000 F0  System exclusive message
ID No.      01000011 43  Manufacture's ID number (YAMAHA)
SUB STATUS  0011nnnn 3n  n=0-15 (Device number=MIDI Channel)
GROUP ID    00111110 3E  MODEL ID (digital mixer)
MODEL ID    00000110 06  DM2000
ADDRESS     00000100 04  Backup memory
              0aaaaaaaa ee  Element No.
              0aaaaaaaa pp  Parameter No.
              0ccccccc cc  Channel No.
EOX         11110111 F7  End of exclusive

```

12.3.14 Parameter change (Function call Library: store/recall)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When this is received, the specified memory/library will be stored/recalled.

Transmission

If [Parameter change ECHO] is ON, this message will be retransmitted without change.

```

STATUS      11110000 F0  System exclusive message
ID No.      01000011 43  Manufacture's ID number (YAMAHA)
SUB STATUS  0001nnnn 1n  n=0-15 (Device number=MIDI Channel)
GROUP ID    00111110 3E  MODEL ID (digital mixer)
MODEL ID    00000110 7F  Universal
ADDRESS     00010000 10  Address UU
              00ffff ff  Address UL (function)
              0aaaaaaaa aa  Address LU (number H)
              0aaaaaaaa aa  Address LL (number L)
DATA        0ddddd dd  channel High
              0ddddd dd  channel Low
EOX         11110111 F7  End of exclusive

```

function	number	channel*1)	tx/rx	
SCENE RECALL	0x00	0-99	256	tx*/rx x
EQ LIB RECALL	0x01	1-200	0-513	tx/rx
GATE LIB RECALL	0x02	1-128	0-95	tx/rx
COMP LIB RECALL	0x03	1-128	0-513	tx/rx
EFF LIB RECALL	0x04	1-128	0-7	tx/rx
GEQ LIB RECALL	0x05	0-128	0-5	tx/rx
CHANNEL LIB RECALL	0x06	0-128	0-513	tx/rx
INPATCH LIB RECALL	0x07	0-32	256	tx/rx
OUTPATCH LIB RECALL	0x08	0-32	256	tx/rx
Bus to Stereo LIB RECALL	0x09	0-32	256	tx/rx
Surround Monitor LIB RECALL	0x0A	0-32	256	tx/rx
AUTOMIX LIB RECALL	0x0B	1-16	256	tx/rx
SCENE STORE	0x20	1-99	256, 16383	tx/rx
EQ LIB STORE	0x21	41-200	0-513, 16383	tx/rx
GATE LIB STORE	0x22	5-128	0-96, 16383	tx/rx
COMP LIB STORE	0x23	37-128	0-513, 16383	tx/rx
EFF LIB STORE	0x24	53-128	0-7, 16383	tx/rx
GEQ LIB STORE	0x25	1-128	0-5, 16383	tx/rx
CHANNEL LIB STORE	0x26	3-128	0-513, 16383	tx/rx
INPATCH LIB STORE	0x27	1-32	256, 16383	tx/rx
OUTPATCH LIB STORE	0x28	1-32	256, 16383	tx/rx
Bus to Stereo LIB STORE	0x29	1-32	256, 16383	tx/rx
Surround Monitor LIB STORE	0x2A	1-32	256, 16383	tx/rx
AUTOMIX LIB STORE	0x2B	1-32	256, 16383	tx/rx

*1) 0:CH1 - 95:CH96, 128:BUS1 - 135:BUS8, 256:AUX1 - 267:AUX12, 384:MATRIX1L - 391:MATRIX4R, 512:STEREO L - 513:STEREO R

Use 256 if the recall destination or store source is a single

data item.

Effect is 0:Effect 1–7:Effect 8, GEQ is 0:GEQ1–5:GEQ6
 If the store destination is 16383 (0x3FFF), this indicates that the library data has been changed by an external cause (i.e., loading from SmartMedia) (only transmitted by the DM2000)

*2) This is also transmitted when a program that has not been assigned to the [Program change table] is recalled. (Normally this would be transmitted as a program change message.)

12.3.15 Parameter change (Function call: title)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When this is received, the title of the specified memory/library will be changed

Transmission

In response to a request, a Parameter Change message will be transmitted on the [Rx CH].

If [Parameter change ECHO] is ON, this message will be retransmitted without change.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	7F	Universal
ADDRESS	00010000	10	Function call Library
	0100aaaa	4a	Address UL (function)
	0nnnnnnn	nn	Address LU (number H)
	0nnnnnnn	nn	Address LL (number L)
DATA	0ddddd	dd	title 1
	:	:	
	0ddddd	dd	title x(depend on the library)
EOX	11110111	F7	End of exclusive

function	number	size
SCENE LIB TITLE	0x40	0-99, 256(0:response only)
EQ LIB TITLE	0x41	1-200(1-40:response only)
GATE LIB TITLE	0x42	1-128(1-4:response only)
COMP LIB TITLE	0x43	1-128(1-36:response only)
EFF LIB TITLE	0x44	1-128(1-52:response only)
GEQ LIB TITLE	0x45	0-128(0:response only)
CHANNEL LIB TITLE	0x46	0-128(0-1:response only)
INPATCH LIB TITLE	0x47	0-32(0:response only)
OUTPATCH LIB TITLE	0x48	0-32(0:response only)
Bus to Stereo LIB TITLE	0x49	0-32(0:response only)
Surround Monitor LIB TITLE	0x4A	0-32(0:response only)
AUTOMIX LIB TITLE	0x4B	1-16

12.3.16 Parameter request (Function call: title)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When this is received, a Parameter Change message will be transmitted on the [Rx CH].

Refer to the above table for the Functions and Numbers.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0011nnnn	3n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	7F	Universal
ADDRESS	00010000	10	Function call Library
	0100aaaa	4a	Address UL (function)
	0nnnnnnn	nn	Address LU (number H)
	0nnnnnnn	nn	Address LL (number L)
EOX	11110111	F7	End of exclusive

12.3.17 Parameter change (Function call: Scene/Library Clear)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When this is received, the specified memory/library will be stored/recalled.

Transmission

If [Parameter change ECHO] is ON, this message will be retransmitted without change.

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	7F	Universal
ADDRESS	00010000	10	Function call Library
	0110aaaa	6a	Address UL (function)
	0nnnnnnn	nn	Address LU (number H)
	0nnnnnnn	nn	Address LL (number L)
EOX	11110111	F7	End of exclusive

function	number
SCENE LIB CLEAR	0x60 1-99
EQ LIB CLEAR	0x61 41-200
GATE LIB CLEAR	0x62 5-128
COMP LIB CLEAR	0x63 37-128
EFF LIB CLEAR	0x64 1-128
GEQ LIB CLEAR	0x65 0-128
CHANNEL LIB CLEAR	0x66 2-128
INPATCH LIB CLEAR	0x67 0-32
OUTPATCH LIB CLEAR	0x68 0-32
Bus to Stereo LIB CLEAR	0x69 0-32
Surround Monitor LIB CLEAR	0x6A 0-32
AUTOMIX LIB CLEAR	0x6B 1-16

12.3.18 Parameter change (Function call: pair, copy)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS. This is echoed if [Parameter change ECHO] is ON.

When this is received, pairing will be enabled/disabled for the specified channel. (Items other than PAIR are reserved for future use.)

STATUS	11110000	F0	System exclusive message
ID No.	01000011	43	Manufacture's ID number (YAMAHA)
SUB STATUS	0001nnnn	1n	n=0-15 (Device number=MIDI Channel)
GROUP ID	00111110	3E	MODEL ID (digital mixer)
MODEL ID	00000110	7F	Universal
ADDRESS	00010001	11	Function call Pair
	0000aaaa	0a	Function
DATA	0ddddd	dd	Source channel number H
	0ddddd	dd	Source channel number L
	0ddddd	dd	Destination channel number H
	0ddddd	dd	Destination channel number L
EOX	11110111	F7	End of exclusive

function	Channel
PAIR ON with COPY	0x00 *1)
PAIR ON with RESET BOTH	0x01 *1)
PAIR OFF	0x02 *1)

*1)0:CH1 - 95:CH96, 128:BUS1 - 135:BUS8, 256:AUX1 - 267:AUX12, 384:MATRIX1L - 391:MATRIX4R, 512:STEREO L - 513:STEREO R

Effect is 0:Effect 1–7:Effect 8, GEQ is 0:GEQ1–5:GEQ6
 In the case of PAIR, you must specify channels for which pairing is possible.

In the case of PAIR ON with COPY, you must specify Source Channel as the copy source, and Destination Channel as the copy destination.

12.3.19 Parameter change (Function call Event: Effect)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When this is received, the corresponding effect's function activates (depending on the effect type).

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0001nnnn 1n n=0-15 (Device number=MIDI Channel)
GROUP ID    00111110 3E MODEL ID (digital mixer)
MODEL ID    00000110 7F Universal
ADDRESS     00010010 12 Function call Event
            0000aaaa 0a Function
DATA        00000000 00 -
            0ddddd dd Release:0, Press:1
            00000000 00 -
            0ddddd dd Destination Effect Number 0 - 7
EOX         11110111 F7 End of exclusive

```

function		Channel
Freeze Play button	0x00	0:Effect1-7:Effect8
Freeze Record button	0x01	0:Effect1-7:Effect8
Auto Pan 5.1 Trigger Button	0x02	0:Effect1-1:Effect2
Auto Pan 5.1 Reset Button	0x03	0:Effect1-1:Effect2

• This does not activate when the effect type is different.

12.3.20 Parameter change (Key remote)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When this is received, the same processing that is executed when the key specified by Address is pressed (released). (Refer to the PARAMETER CHANGE PARAMETER NUMBER LIST.)

Transmission

If [Parameter Change ECHO] is ON, this message is retransmitted without change.

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0001nnnn 1n n=0-15 (Device number=MIDI Channel)
GROUP ID    00111110 3E MODEL ID (digital mixer)
MODEL ID    00000110 06 DM2000
ADDRESS     00100000 20 Address UU
            0aaaaaaa aa Address UL
            0aaaaaaa aa Address LU
            0aaaaaaa aa Address LL
DATA        0ddddd dd 0:press, 1:release
EOX         11110111 F7 End of exclusive

```

12.3.21 Parameter change (Remote Meter)

When transmission is enabled by receiving a Request of Remote meter, the specified meter information is transmitted every 50 msec for 10 seconds.

When you want to transmit meter information continuously, a Request must be transmitted continuously within every 10 seconds.

Reception

This is echoed if [Parameter change ECHO] is ON.

Transmission

When transmission has been enabled by a Request, the parameter specified by Address (see PARAMETER CHANGE PARAMETER NUMBER LIST) will be transmitted on the [Rx CH] channel at 50 msec intervals for a duration of 10 seconds.

Transmission will be disabled if the power is turned off and on again, or if the PORT setting is changed.

If [Parameter Change ECHO] is ON, this message is retransmitted without change.

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0001nnnn 1n n=0-15 (Device number=MIDI Channel)
GROUP ID    00111110 3E MODEL ID (digital mixer)
MODEL ID    00000110 06 DM2000
ADDRESS     00100001 21 Address UU
            0aaaaaaa aa Address UL
            0aaaaaaa aa Address LU
            0aaaaaaa aa Address LL
DATA        0ddddd dd Data1 H

```

```

0ddddd dd Data1 L
:
EOX         11110111 F7 End of exclusive

```

Meter data uses the unmodified DECAY value of the DSP. For the interpretation of the value, refer to the PARAMETER CHANGE PARAMETER NUMBER LIST.

12.3.22 Parameter request (Remote Meter)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When this is received, the parameter specified by Address (refer to PARAMETER CHANGE PARAMETER NUMBER LIST) will be transmitted on the [Rx CH] at 50 msec intervals for a duration of 10 seconds.

If Address UL= 0x7F is received, transmission of all meter data will be halted immediately. (disable)

Transmission

If [Parameter Change ECHO] is ON, this message is retransmitted without change.

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0011nnnn 3n n=0-15 (Device number=MIDI Channel)
GROUP ID    00111110 3E MODEL ID (digital mixer)
MODEL ID    00000110 06 DM2000
ADDRESS     00100001 21 Address UU
            0aaaaaaa aa Address UL
            0aaaaaaa aa Address LU
            0aaaaaaa aa Address LL
DATA        0cccccccc Count H
            0cccccccc Cc Count L
EOX         11110111 F7 End of exclusive

```

12.3.23 Parameter change (Remote Time Counter)

When transmission is enabled by receiving a Request of Remote Time Counter, the Time Counter data is transmitted every 50 msec for 10 seconds. When you want to transmit Counter information continuously, a Request must be transmitted within every 10 seconds.

Reception

This is echoed if [Parameter change ECHO] is ON.

Transmission

When transmission is enabled by receiving a Request, the Time Counter information is transmitted on [RxCH] channel every 50 msec for 10 seconds.

Transmission will be disabled if the power is turned off and on again, or if the PORT setting is changed.

If [Parameter Change ECHO] is ON, this message is retransmitted without change.

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0001nnnn 1n n=0-15 (Device number=MIDI Channel)
GROUP ID    00111110 3E MODEL ID (digital mixer)
MODEL ID    00000110 06 DM2000
ADDRESS     00100001 22 Remote Time Counter
            0000tttt 0t 0:Time Code, 1: Measure, Beat, Clock
DATA        0ddddd dd Hour / Measure H
            0ddddd dd Min / Measure L
            0ddddd dd Sec / Beat
            0ddddd dd Frame / Clock
EOX         11110111 F7 End of exclusive

```

12.3.24 Parameter request (Remote Time Counter)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When this is received, the Time Counter information is transmitted on the [Rx CH] channel every 50 msec for 10 seconds.

When the second byte of Address is received on 0x7F, data transmission will be halted immediately.

Transmission

If [Parameter Change ECHO] is ON, this message is retransmitted without

change.

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0011nnnn 3n n=0-15 (Device number=MIDI Channel)
GROUP ID    00111110 3E MODEL ID (digital mixer)
MODEL ID    00000110 06 DM2000
ADDRESS     00100001 22 Remote Time Counter
            0aaaaaaa aa 0:Transmission request,
            0x7F:Transmission stop request
EOX         11110111 F7 End of exclusive

```

12.3.25 Parameter change (Automix Status)

When transmission is enabled by receiving a Request of Automix status, the Automix Status data is transmitted every second for 10 seconds. When you want to transmit the Automix Status information continuously, the Request must be transmitted continuously minimum within 10 seconds interval. The data is transmitted continuously while the transmission is enabled, even when the Automix Status on the DM2000 has been changed.

Reception

This is echoed if [Parameter change ECHO] is ON.

Transmission

When the transmission is set to enable by receiving a Request. The Automix Status data is transmitted on the [Rx CH] channel every second for 10 seconds. The data is transmitted continuously while the transmission is enabled, even when the Automix Status on the DM2000 has been changed. Transmission will be disabled if the power is turned off and on again, or if the PORT setting is changed.

If [Parameter Change ECHO] is ON, this message is retransmitted without change.

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0001nnnn 1n n=0-15 (Device number=MIDI Channel)
GROUP ID    00111110 3E MODEL ID (digital mixer)
MODEL ID    00000110 06 DM2000
ADDRESS     00100011 23 Automix Status
            00000000 00
DATA        0000dddd 0d Automix Status H
            0000dddd 0d Automix Status L
EOX         11110111 F7 End of exclusive

```

12.3.26 Parameter request (Automix Status)

Reception

This is received if [Parameter change RX] is ON and the [Rx CH] matches the device number included in the SUB STATUS.

This is echoed if [Parameter change ECHO] is ON.

When the data is received, the Automix Status data is transmitted on the [Rx CH] every second for 10 seconds.

When the second byte of Address is received on 0x7F, data transmission will be halted immediately (disable).

Transmission

If [Parameter Change ECHO] is ON, this message is retransmitted without change.

```

STATUS      11110000 F0 System exclusive message
ID No.      01000011 43 Manufacture's ID number (YAMAHA)
SUB STATUS  0011nnnn 3n n=0-15 (Device number=MIDI Channel)
GROUP ID    00111110 3E MODEL ID (digital mixer)
MODEL ID    00000110 06 DM2000
ADDRESS     00100011 23 Automix Status
            0aaaaaaa aa 0:Transmission request,
            0x7F:Transmission stop request
EOX         11110111 F7 End of exclusive

```

MIDI Implementation Chart

Function...	Transmitted	Recognized	Remarks
Basic Channel Default Changed	1-16 1-16	1-16 1-16	Memorized
Mode Default Messages Altered	X X *****	OMNI off/OMNI on X X	Memorized
Note Number :True Voice	X *****	0-127 X	
Velocity Note On Note Off	X X	0 0	Effect Control
After Touch Key s Ch s	X X	X X	
Pitch Bend	X	X	
Control Change 0-95,102-119	0	0	Assignable
Prog Change :True#	0-127 *****	0-127 0-99	Assignable
System Exclusive	0	0	*1
System Common :Song Pos :Song Sel :Tune	X X X	0 X X	Automix
System Real Time :Clock :Commands	X X	0 0	Automix, Effect Control
Aux Messages :Local ON/OFF :All Notes OFF :Active Sense :Reset	X X X X	X X 0 0	
Notes	MTC quarter frame message is recognized.(MTC IN & MIDI IN) *1: Bulk Dump/Request, Parameter Change/Request, and MMC. For MIDI Remote, ALL messages can be transmitted.		

DIGITAL PRODUCTION CONSOLE

DM 2000

PARTS LIST


■ CONTENTS

OVERALL ASSEMBLY	.....	2
BOTTOM ASSEMBLY	.....	5
REAR ASSEMBLY U	.....	12
CONTROL PANEL ASSEMBLY	.....	15
LCD ASSEMBLY	.....	22
ELECTRICAL PARTS	.....	25

Notes : DESTINATION ABBREVIATIONS

A : Australian model	M: South African model
B : British model	O : Chinese model
C : Canadian model	Q: South-east Asia model
D : German model	T : Taiwan model
E : European model	U : U.S.A. model
F : French model	V : General export model (110V)
H : North European model	W: General export model (220V)
I : Indonesian model	N,X: General export model
J : Japanese model	Y : Export model

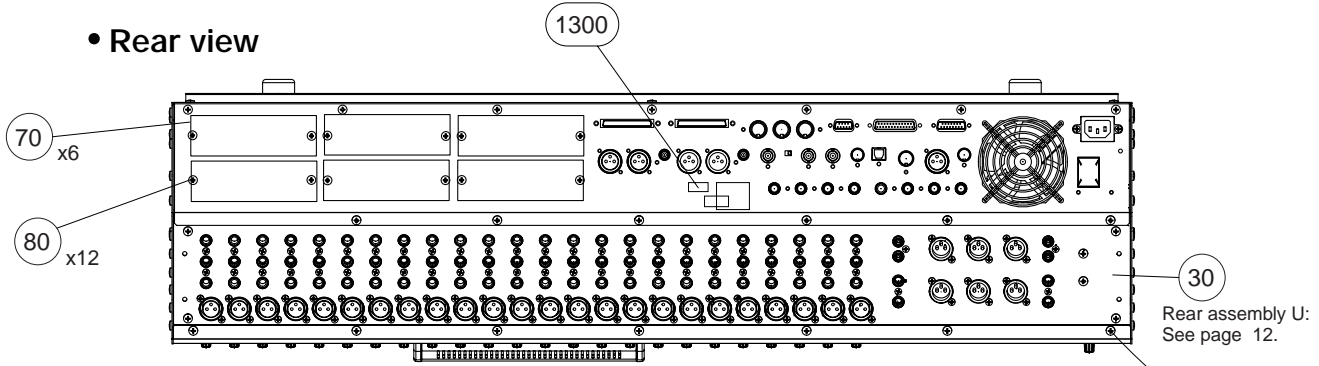
■ WARNING

Components having special characteristics are marked  and must be replaced with parts having specification equal to those originally installed.

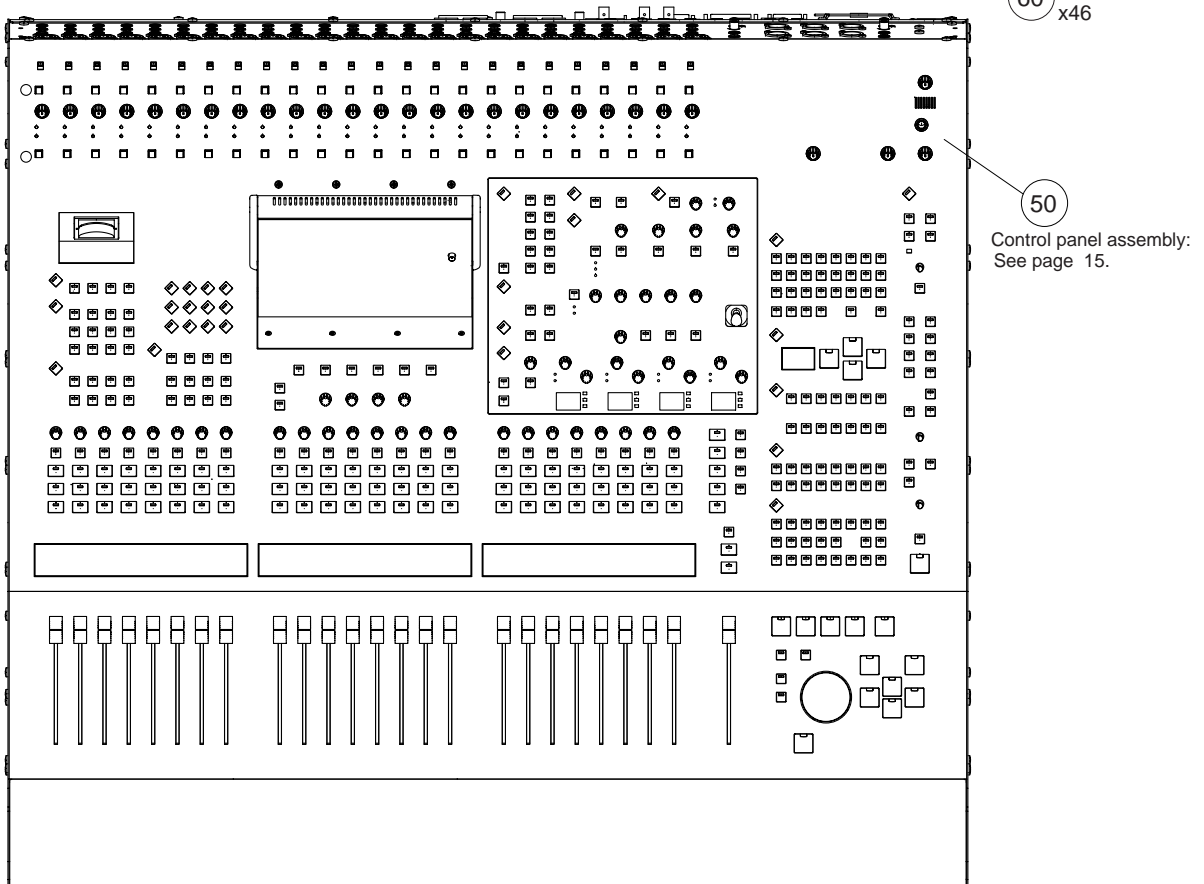
- The numbers "QTY" show quantities for each unit.
- The parts with "--" in "PART NO." are not available as spare parts.
- This mark "}" in the REMARKS column means these parts are interchangeable.
- The second letter of the shaded (■) part number is O, not zero.
- The second letter of the shaded (■) part number is I, not one.

OVERALL ASSEMBLY

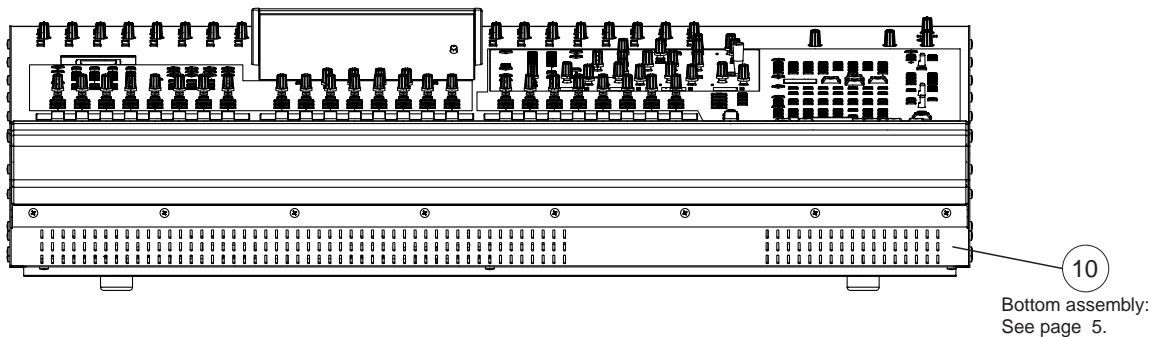
• Rear view



• Top view

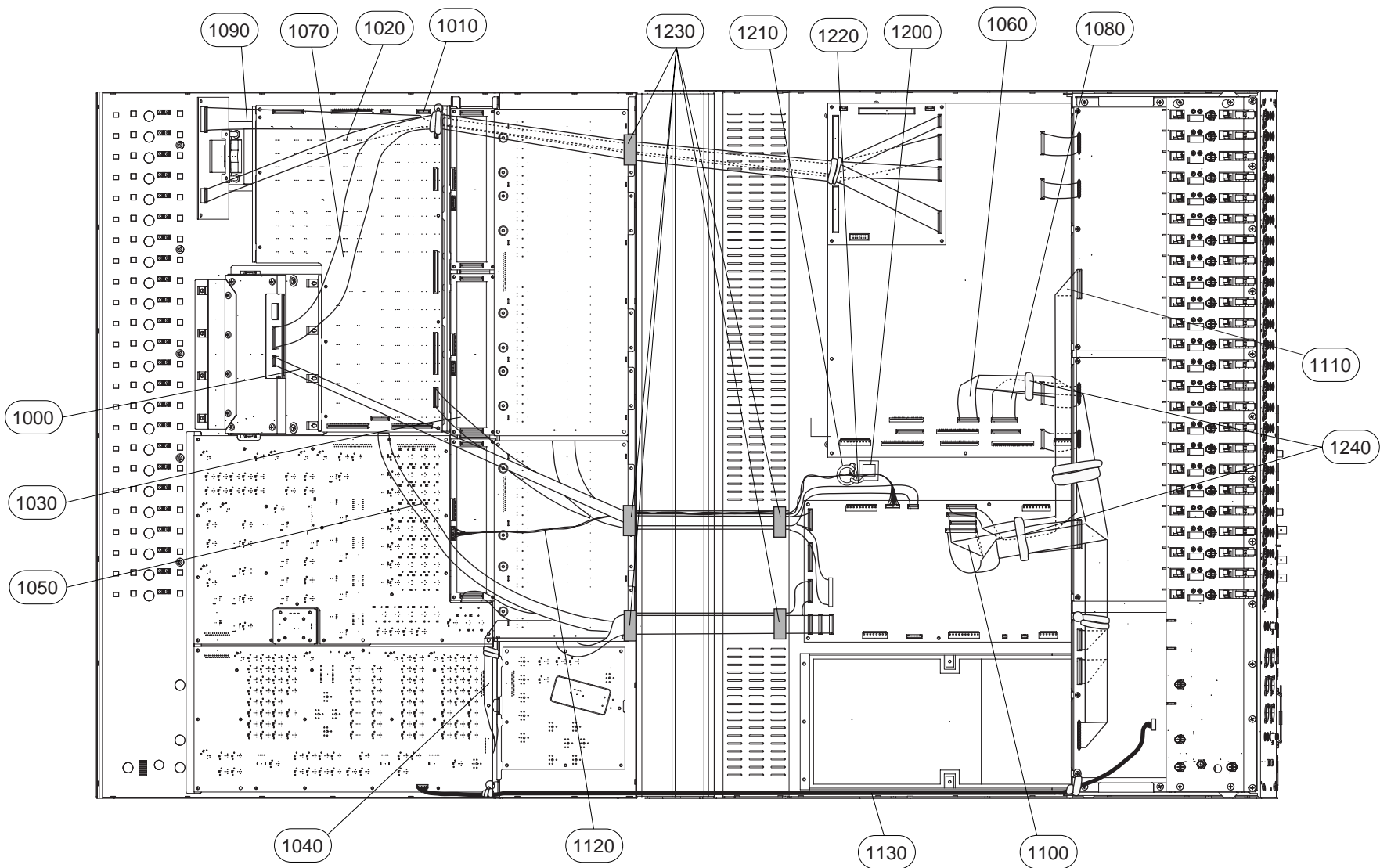


• Front view



• Bottom view

• Top view



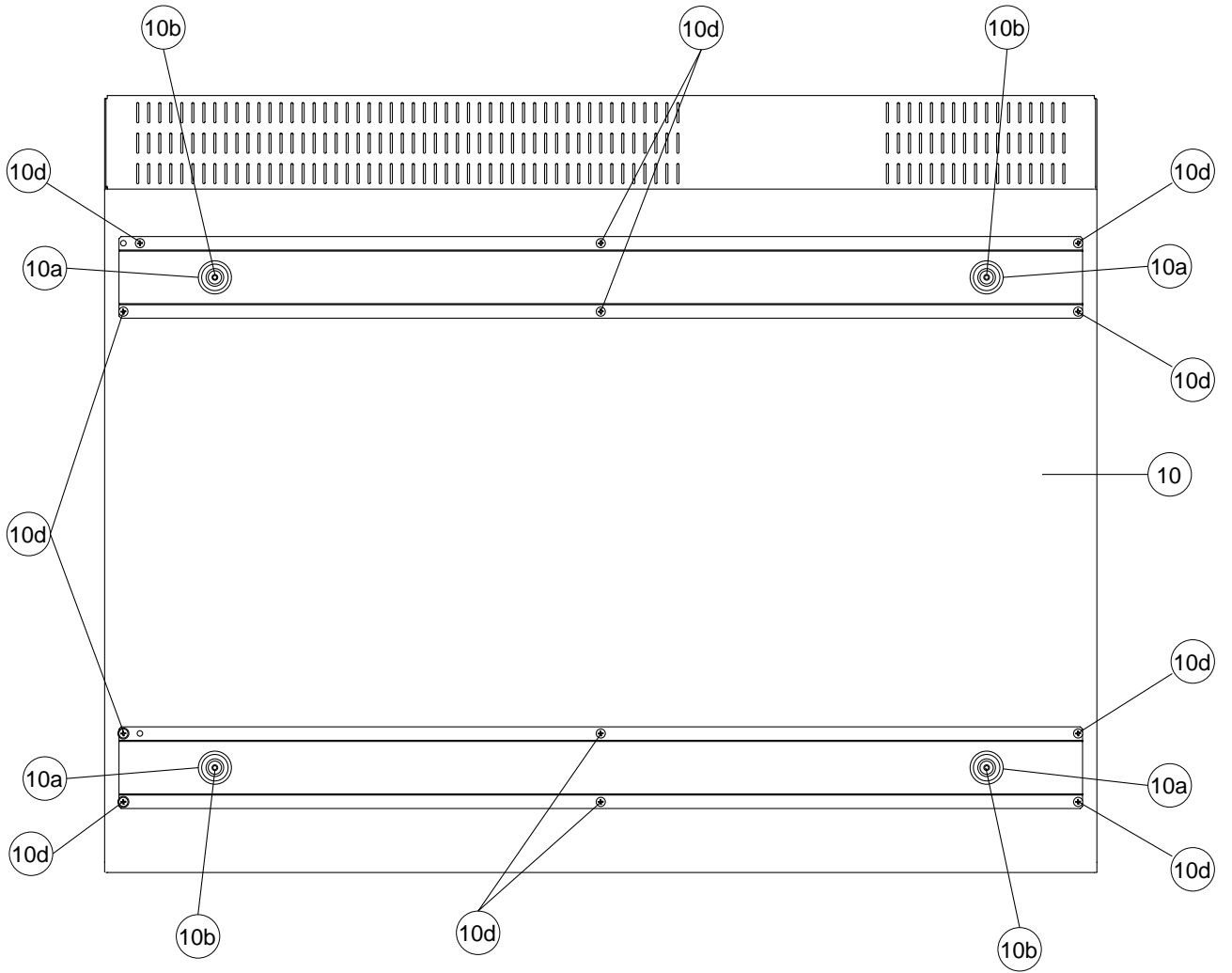
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		OVERALL ASSEMBLY		DM2000		
	--	Overall Assembly		J (V642660)		
	--	Overall Assembly		U,V (V642680)		
	--	Overall Assembly		H,B,W (V642690)		
	VN103500	Lithium Battery	CR2032			03
10	--	Bottom Assembly		J (V642840)		
10	--	Bottom Assembly		U,V (V642850)		
10	--	Bottom Assembly		H,B,W (V642860)		
30	--	Rear Assembly U	UPPER	(V642810)		
50	--	Control Panel Assembly		(V642710)		
60	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		46	01
70	VZ678500	IF Plate			6	05
80	VP156900	Bind Head Screw	A4.0X12 MFZN2BL		12	01
* 1000	V8391500	Jumper Wire	FVP=2.0C26SB4-950			
* 1010	V8391600	Jumper Wire	FVP=2.0C26SB6-780			
* 1020	V8391700	Jumper Wire	FVP=2.0C26SB7-1m			
* 1030	V9364900	Jumper Wire	FVP=2.0C26SB11-600			
* 1040	V8392000	Jumper Wire	FVP=2.0C26SB10-700			
* 1050	VU073400	Jumper Wire	FVP=2.0C26SB10-800			
* 1060	V8970500	Jumper Wire	FVP=2.0C26SB11-550			
* 1070	V8970800	Jumper Wire	FVP=2.0C26SB12-1m			
* 1080	V8970600	Jumper Wire	FVP=2.0C26SB14-550			
* 1090	V8392400	Jumper Wire	FVP=2.0C26SB14-1m			
* 1100	V8392500	Jumper Wire	FVP=2.0C26SB16-240			
* 1110	V8970700	Jumper Wire	FVP=2.0C26SB16-550			
* 1120	V8413700	Connector Assembly	BRG-FL 8P 800L			
* 1130	VT960800	Connector Assembly	CR PH-6P			
1200	CB835590	Holder	TMS-20			01
1210	VC362700	Ferrite Core	FR25/15/12-1400L			04
1220	CB069250	Cord Holder	BK-1			01
1230	--	Cable Clamp	FCN-3010	(V908970)	5	
1240	CB069250	Cord Holder	BK-1		2	01
1300	VA039300	Label		U,V		03
		ACCESSORIES				
	VQ240200	Adapter, AC Cord	KPR-24	J		06
* 1	X2381A00	CD-ROM	CD-R 650MB 12cm			
⚠	V5800000	AC Cord	J 3P 15A	J		09
⚠	V5068000	AC Cord	U/C 3P 13A	U,V		09
⚠	V5067700	AC Cord	CE 3P 10A	H,W		08
⚠	V6190800	AC Cord	BS	B		10
		TOOLS				
* 1	AAX33140	Front Stay Set				
* 1	AAX33150	Rear Stay Set				

*: New Parts

RANK: Japan only

■ BOTTOM ASSEMBLY

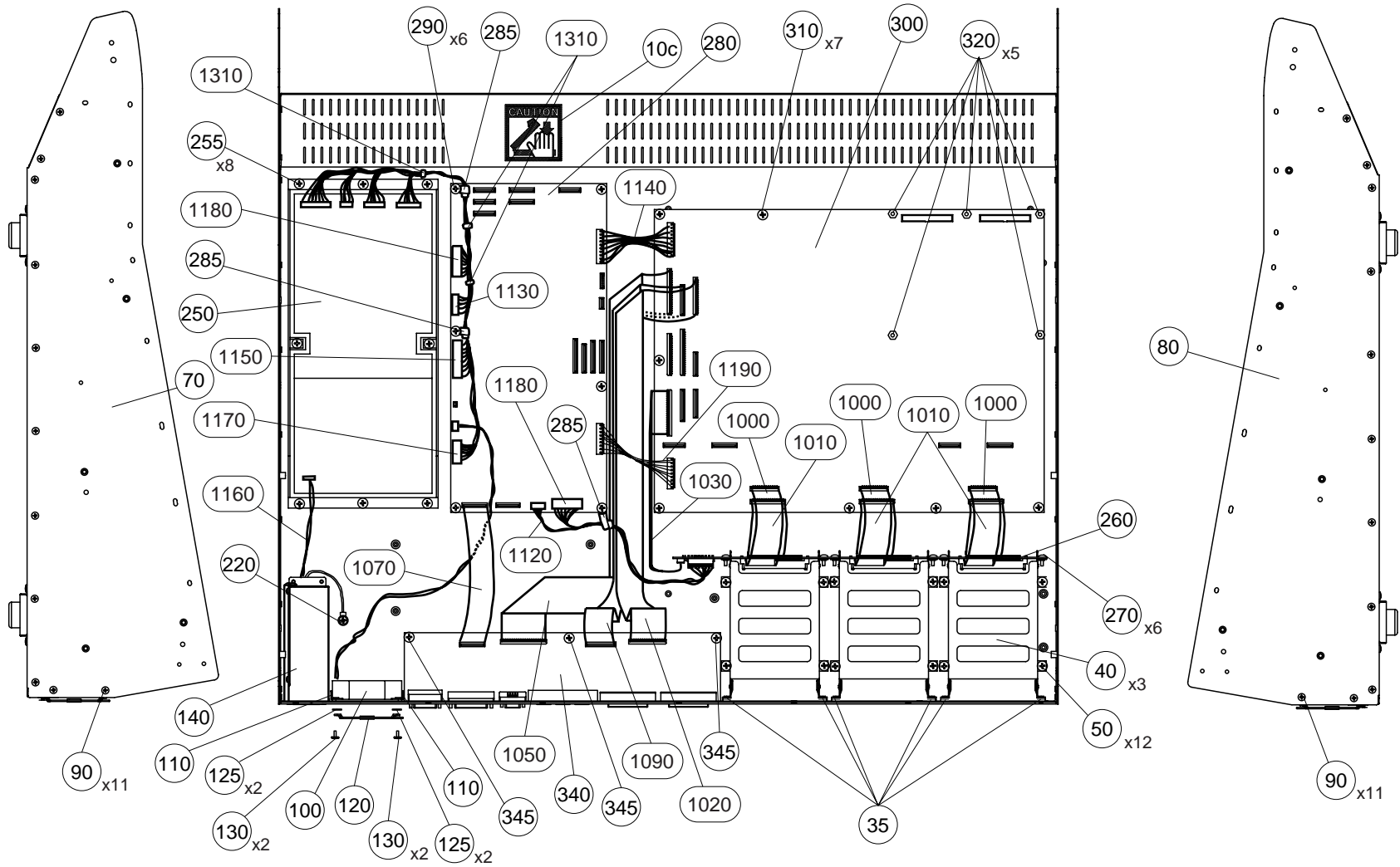
• Bottom view



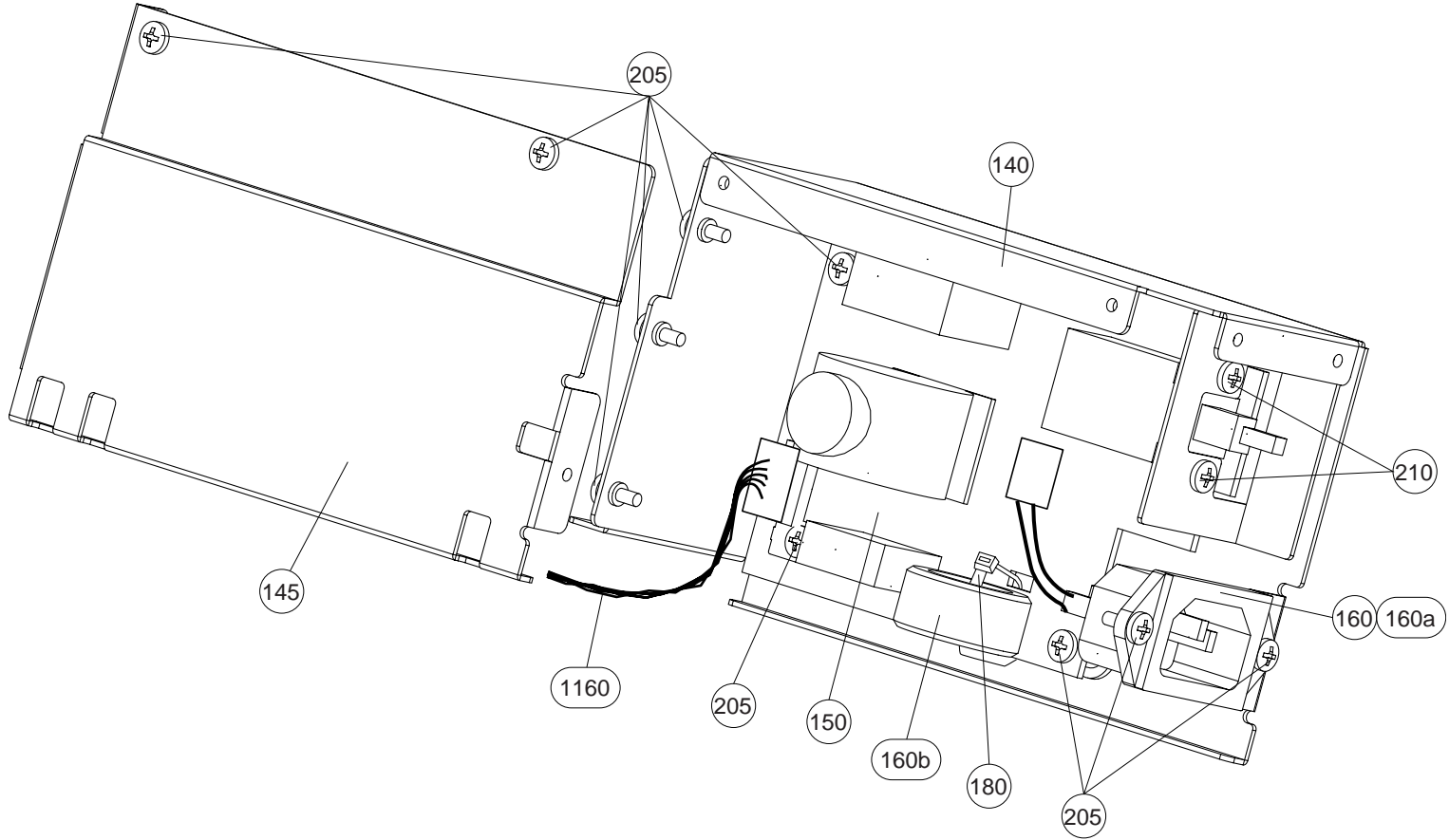
• Left side view

• Top view

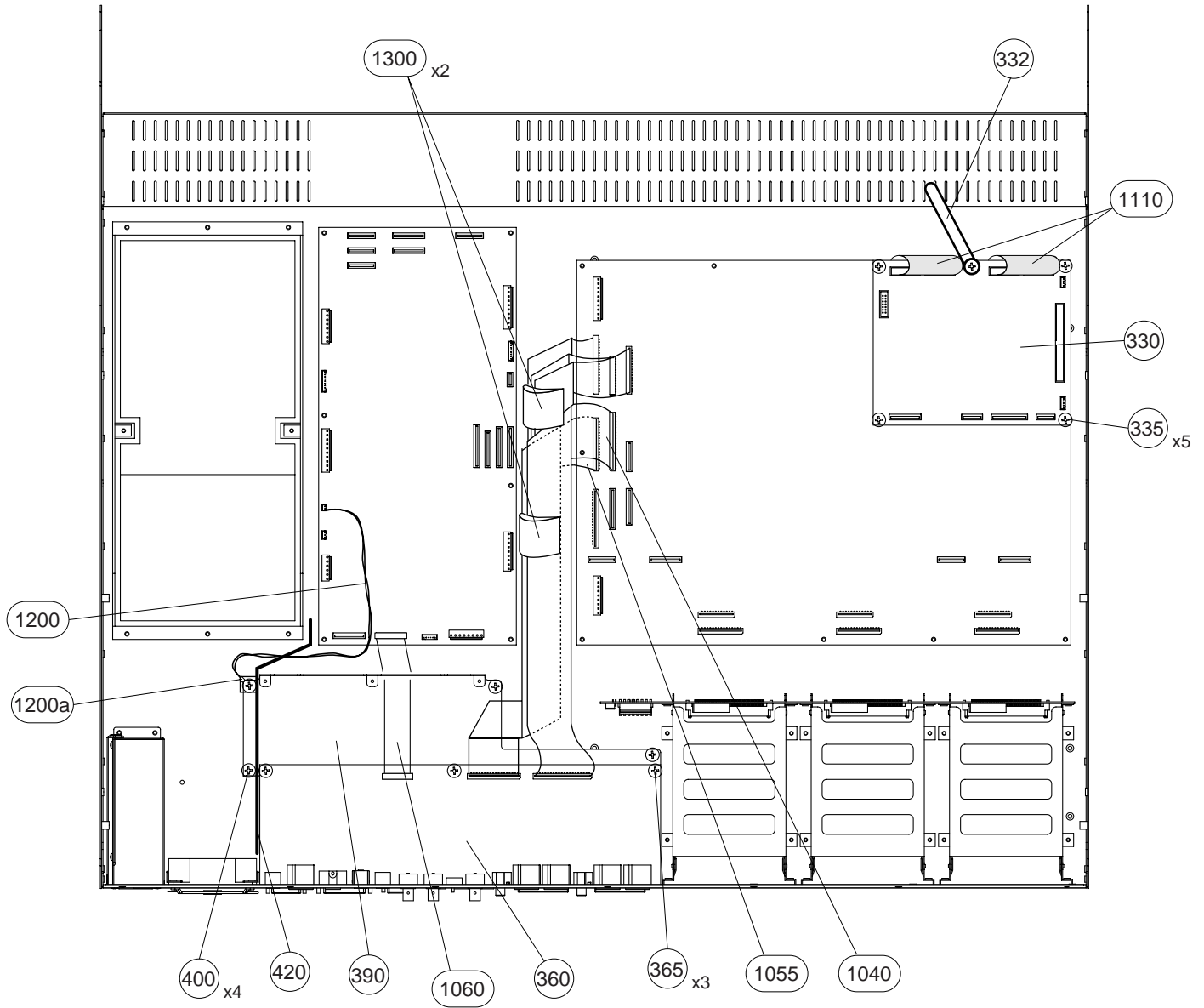
• Right side view



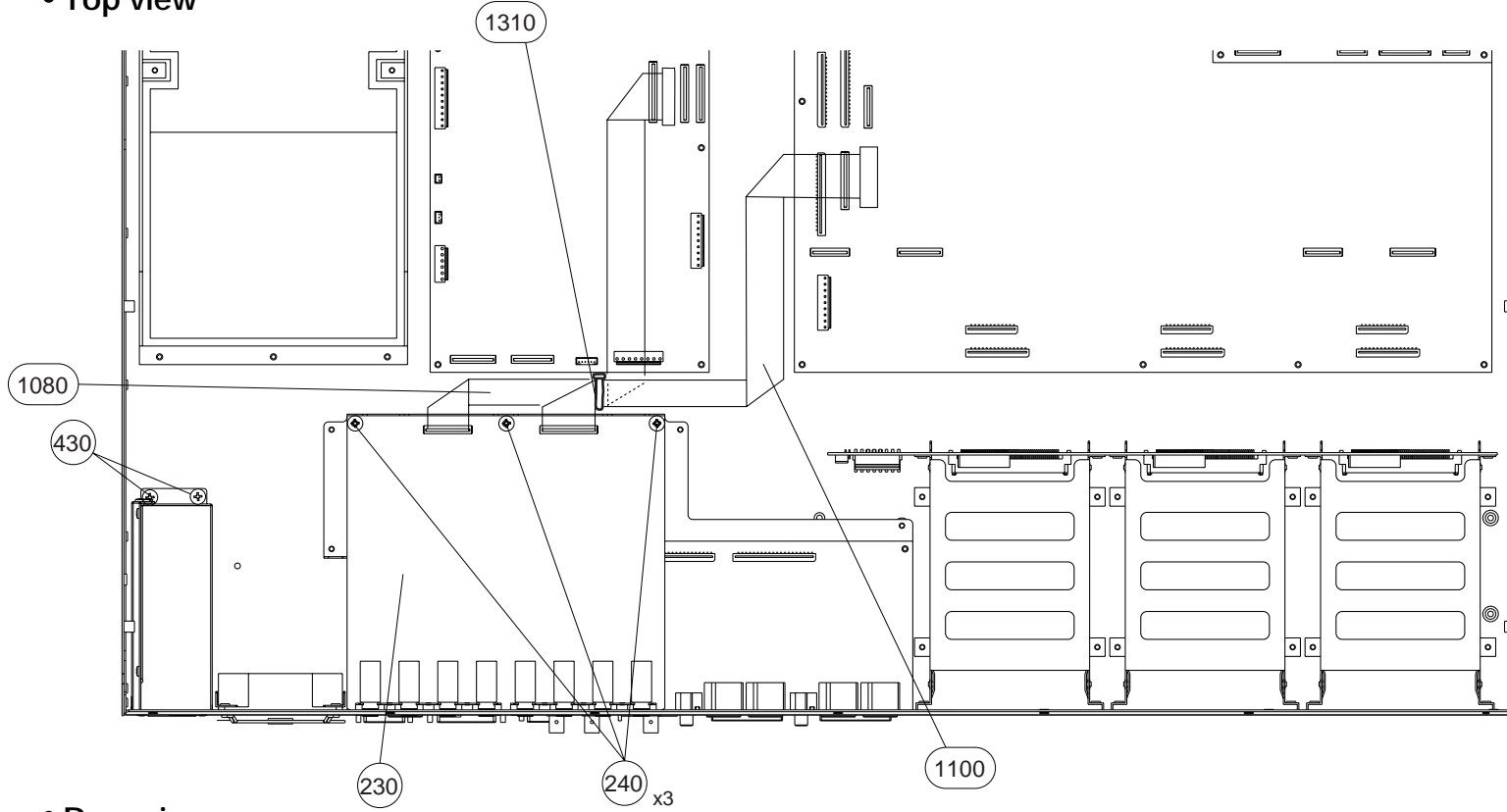
• Top view



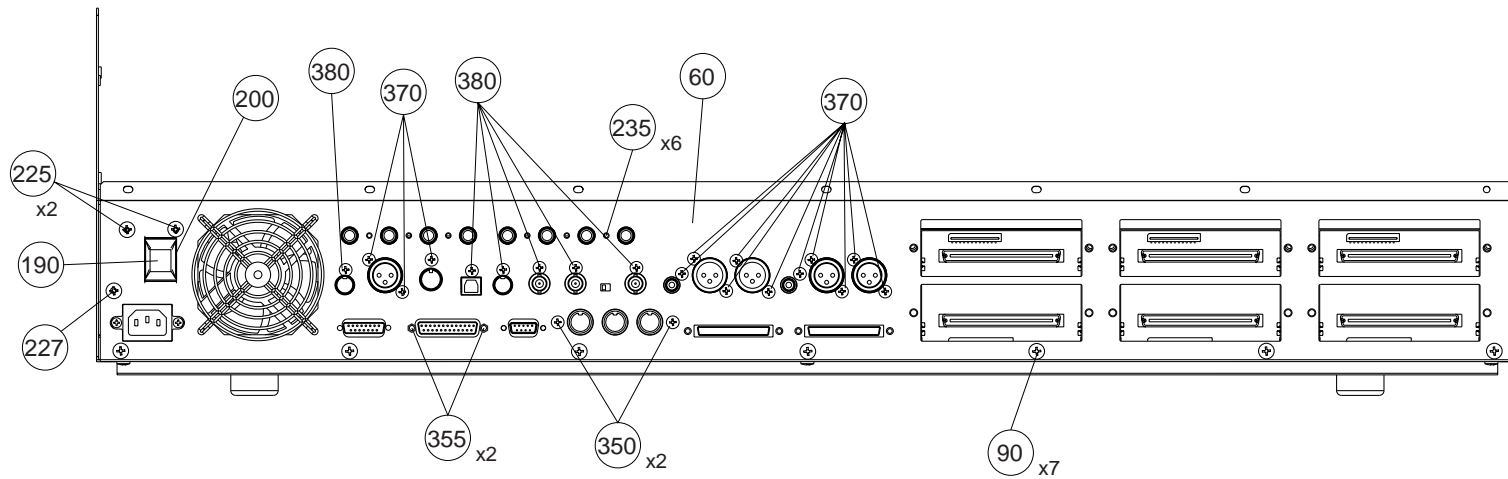
• Top view



• Top view



• Rear view



REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	BOTTOM ASSEMBLY		DM2000		
	--	Bottom Assembly		J (V642840)		
	--	Bottom Assembly		U,V (V642850)		
	--	Bottom Assembly		H,B,W (V642860)		
* 10	V6365300	Bottom Chassis				
* 10a	V8991500	Leg			4	
10b	VR138400	Bind Head Tapping Screw-B	4.0X12 MFZN2BL		4	01
10c	--	Caution Label		(VV85650)	12	01
10d	EG340190	Bind Head Tapping Screw-B	4.0X8 MFZN2BL		6	
35	--	Gasket		(V913040)	3	
* 40	V8806500	OPT Angle			12	01
50	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			
* 60	V8402800	Rear Panel L	LOWER	J		
* 60	V8422300	Rear Panel L	LOWER	U,V		
* 60	V8422400	Rear Panel L	LOWER	H,B,W		
* 70	V8403000	Side Panel L	LEFT			
* 80	V8403100	Side Panel R	RIGHT			
90	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		29	01
* 100	V8628200	Motor	DC KDE1208PTS3-6	Fan		
110	V6444900	Fan Guide			2	02
120	V8968200	Fan Guard	FG-08UL-BK			
125	ET800070	Toothed Lock Washer	A 4.0 MFZN2BL		4	
130	VB671600	Pan Head Screw	SP 4.0X20 MFZN2BL		4	01
* 140	V6511400	Shield Box				
* 145	V8415900	Cover, Shield Box				
* 150	V6543900	Circuit Board	DM2K SW			
* 160	V8190200	AC Inlet Assembly	AC INLET&VH3P			
△ 160a	V5065200	AC Inlet	M1908-C	AC IN		03
160b	VC362700	Ferrite Core	FR25/15/12-1400L			04
180	CB069250	Cord Holder	BK-1			01
190	VL812900	Power Switch Knob		POWER ON/OFF		03
200	VL813000	Escutcheon, Power Switch				03
205	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		10	01
210	VB659000	Bind Head Screw	3.0X8 MFZN2BL		2	01
220	V1693100	Bind Head Tapping Screw-S	4.0X8 MFZN2BL			01
225	VN413300	Bonding Tapping Screw-B	3.0X8 MFZN2BL		2	01
227	V1693100	Bind Head Tapping Screw-S	4.0X8 MFZN2BL			01
* 230	V6285500	Circuit Board	DM2K DA1			
235	VN413300	Bonding Tapping Screw-B	3.0X8 MFZN2BL		6	01
240	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		3	01
△ * 250	V6526100	Power Supply Unit	XR-642 J,UL,CSA,S			
255	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		8	01
* 260	V6285800	Circuit Board	DM2K OPT			
* 270	VZ538000	Bind Head Screw	4.0X8 SP MFZN2Y		6	01
* 280	V6287300	Circuit Board	DM2K BRG			
285	CB817510	Cord Binder	S-14B		3	03
290	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		6	01
* 300	V6285200	Circuit Board	DM2K DSP			
310	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		7	01
* 320	V8628400	Spacer	M3.0 L=35		5	
* 330	V7765500	Circuit Board	DM2K CPU			
332	VJ770600	Cord Binder	S-126			01
335	VB659000	Bind Head Screw	3.0X8 MFZN2BL		5	01
* 340	V6286200	Circuit Board	DM2K JK2			
345	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		3	01
350	VN413300	Bonding Tapping Screw-B	3.0X8 MFZN2BL		2	01
355	VS604900	Hex. Locking Screw	JFS-2.6S-BIW		2	01
* 360	V6285900	Circuit Board	DM2K JK1			
365	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		3	01
370	VN413300	Bonding Tapping Screw-B	3.0X8 MFZN2BL		13	01
380	VP157800	Bonding Screw	3.0X8 MFZN2BL		6	01
* 390	V6430300	Holder, P.C.B.				
400	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		4	01
* 420	V8676000	Duct				
430	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		2	01
* 1000	MF124160	Connector Assembly	24P 160mm P=1.25		3	
1010	MF130120	Connector Assembly	30P 120mm P=1.25		3	02
* 1020	MF132600	Connector Assembly	32P 600mm P=1.25			
* 1030	MF140250	Connector Assembly	40P 250mm P=1.25			
* 1040	MF140400	Connector Assembly	40P 400mm P=1.25			

*: New Parts

RANK: Japan only

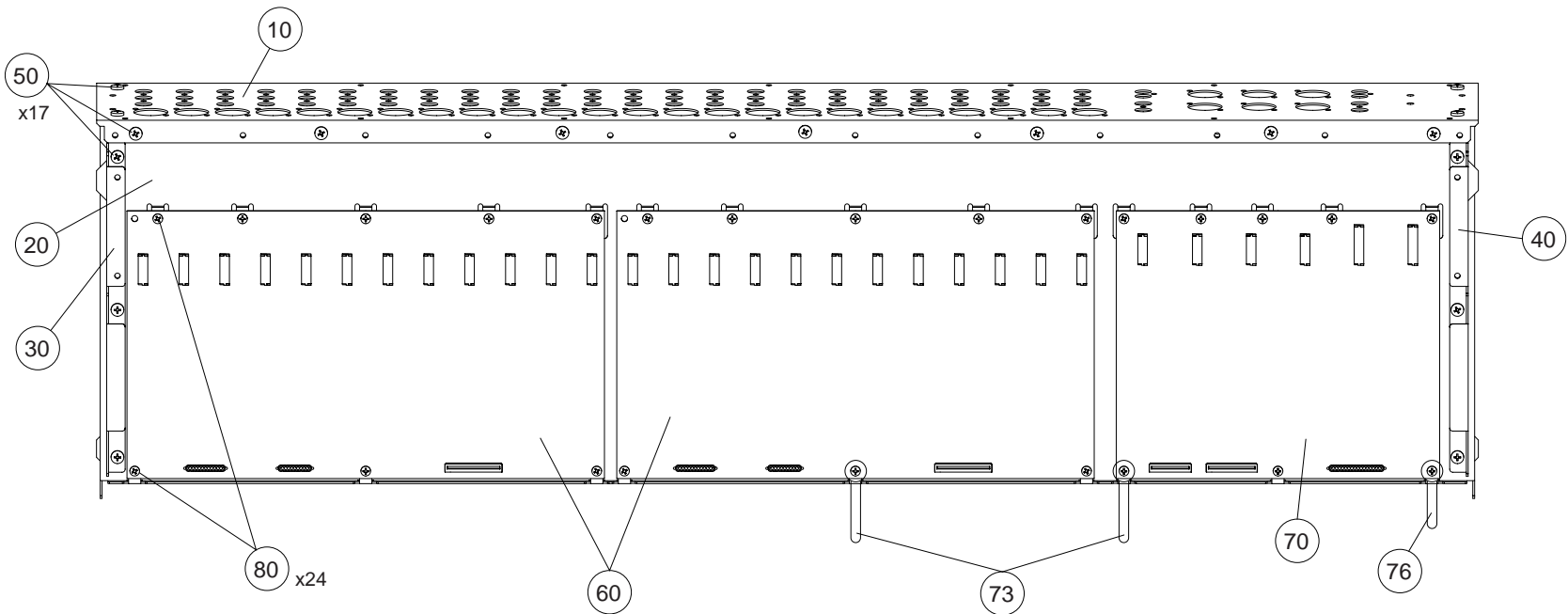
REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
* 1050	MF140600	Connector Assembly	40P 600mm P=1.25		
* 1055	MF136450	Connector Assembly	36P 450mm P=1.25		
* 1060	V8392100	Jumper Wire	FVP=2.0C26SB11-220		
* 1070	V5843300	Jumper Wire	FVP=2.0C26SB12-200		
* 1080	V8392300	Jumper Wire	FVP=2.0C26SB14-400		
* 1090	V2016000	Jumper Wire	FVP=2.0C26SB15-550		
* 1100	V8392600	Jumper Wire	FVP=2.0C26SB16-400		
* 1110	V8268300	Flat Cable Assembly	HIF6H-80D-AA-10JJ	2	
* 1120	V8413600	Connector Assembly	BRG-OPT PH-6P		
* 1130	V8413800	Connector Assembly	BRG-DC PH-9P		
* 1140	V8413900	Connector Assembly	BRG-DSP VH-10P		
* 1150	V8414000	Connector Assembly	BRG-DC1 VH-10P		
* 1160	V8414400	Connector Assembly	SW-DC VH-4P/3P		
* 1170	V8414100	Connector Assembly	BRG-DC2 VH-6P		
* 1180	V8414200	Connector Assembly	BRG-OPT1 VH-8P	2	
* 1190	V8414300	Connector Assembly	BRG-DSP1 VH-9P		
* 1200	V8417000	Connector Assembly	POS&PH PH-2P		
1200a	VL964800	Positive Thermistor	PTH9M04BH222TS2		04
1300	--	Cable Clip	MFC-1000	(V910650) 2	
1310	CB069250	Cord Holder	BK-1	4	01

*: New Parts

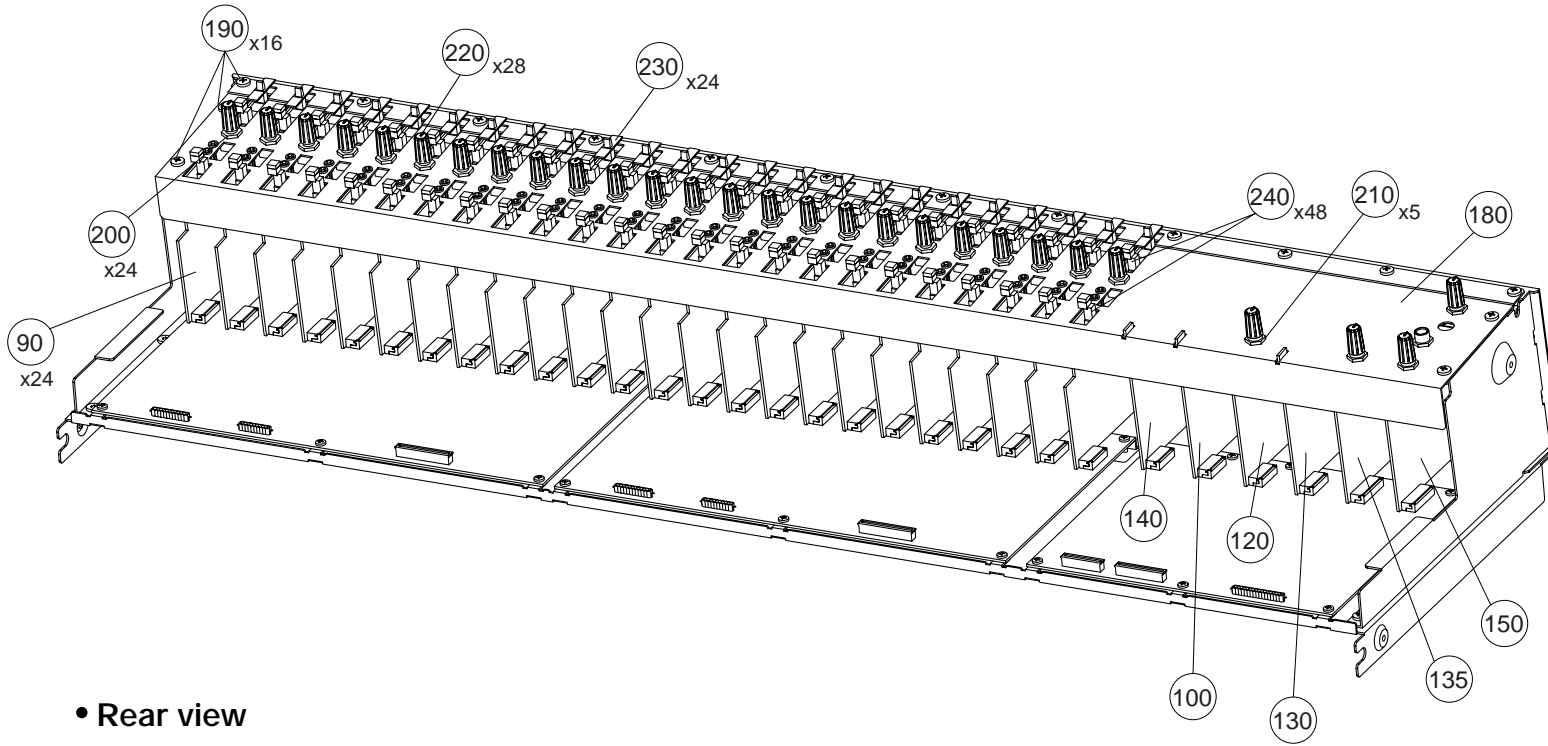
RANK: Japan only

REAR ASSEMBLY U

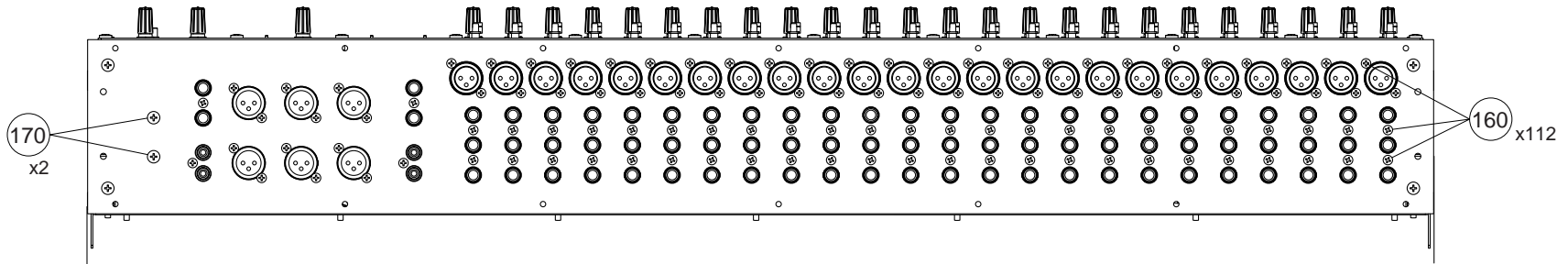
• Top view



• Top view



• Rear view

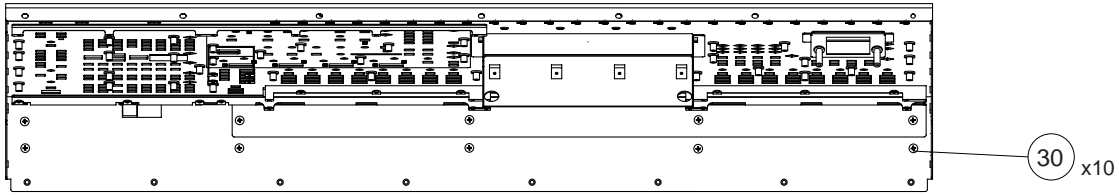


REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	REAR ASSEMBLY U	UPPER	DM2000 (V642810)		
* 10	V8402600	Rear Panel U	UPPER			
* 20	V6365000	Shield Sheet				
* 30	V6365600	Shield Plate L	LEFT			
* 40	V6365700	Shield Plate R	RIGHT			
50	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		17	01
* 60	V6285400	Circuit Board	DM2K AD		2	
* 70	V6285600	Circuit Board	DM2K DA2			
73	VJ770600	Cord Binder	S-126		2	01
76	CB817510	Cord Binder	S-14B			03
80	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		24	01
* 90	V6468500	Circuit Board	DM2K ANI		24	
* 100	V6468600	Circuit Board	DM2K LRG (CRCOM)	(V628790)		
* 120	V6468700	Circuit Board	DM2K SML (CRCOM)	(V628790)		
* 130	V6468800	Circuit Board	DM2K ST (STCOM)	(V628800)		
* 135	V6468900	Circuit Board	DM2K STD (STCOM)	(V628800)		
* 140	V6469000	Circuit Board	DM2K 2TRI (2TRCOM)	(V628810)		
* 150	V6469100	Circuit Board	DM2K PHN (2TRCOM)	(V628810)		
160	VN413300	Bonding Tapping Screw-B	3.0X8 MFZN2BL		112	01
170	VP156800	Bind Head Screw	A4.0X8 MFZN2BL		2	01
* 180	V6365100	PC Support				
190	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		16	01
200	VR991600	Hexagonal Nut	7.0 11X2 MFZN2BL		24	01
210	VJ388000	Hexagonal Nut	9.0 11X2 MFZN2BL		5	01
220	VS085700	Knob Gray/Dark Gray	S	GAIN 1-24, TALKBACK LEVEL, SMALL TRIM, STUDIO LEVEL, PHONES LEVEL	28	03
230	VJ859500	Knob Red		+48V ON/OFF 1-24	24	05
240	VT651400	Push Button D.Gray/Gray	S	PAD 26dB 1-24, INSERT ON/OFF 1-24	48	01

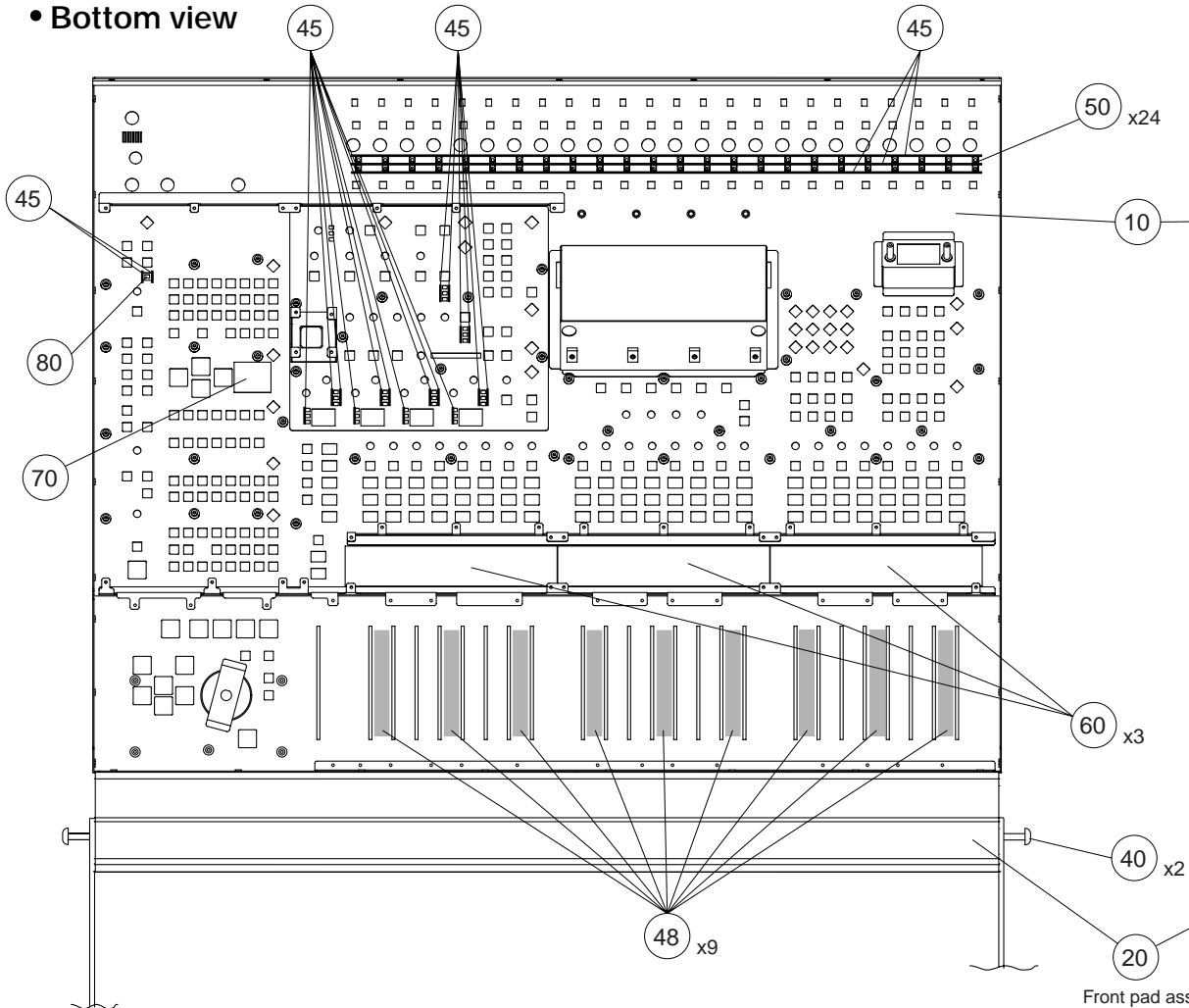
*: New Parts

RANK: Japan only

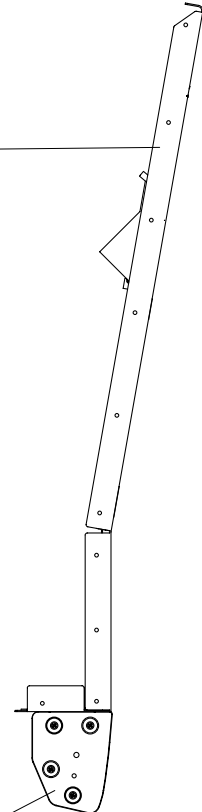
• Front view



• Bottom view

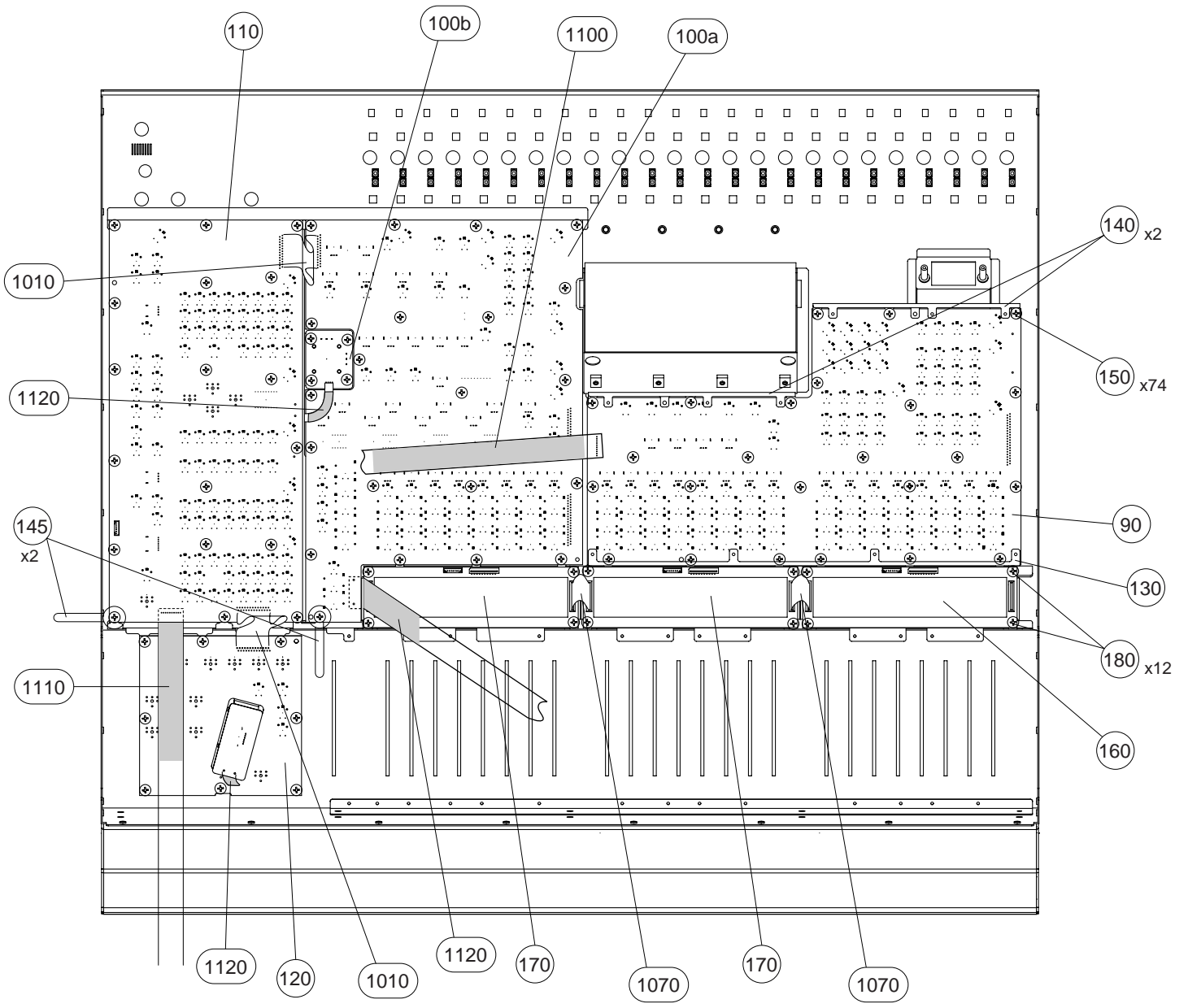


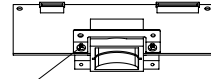
• Side view



Front pad assembly: See page 19.

• Bottom view

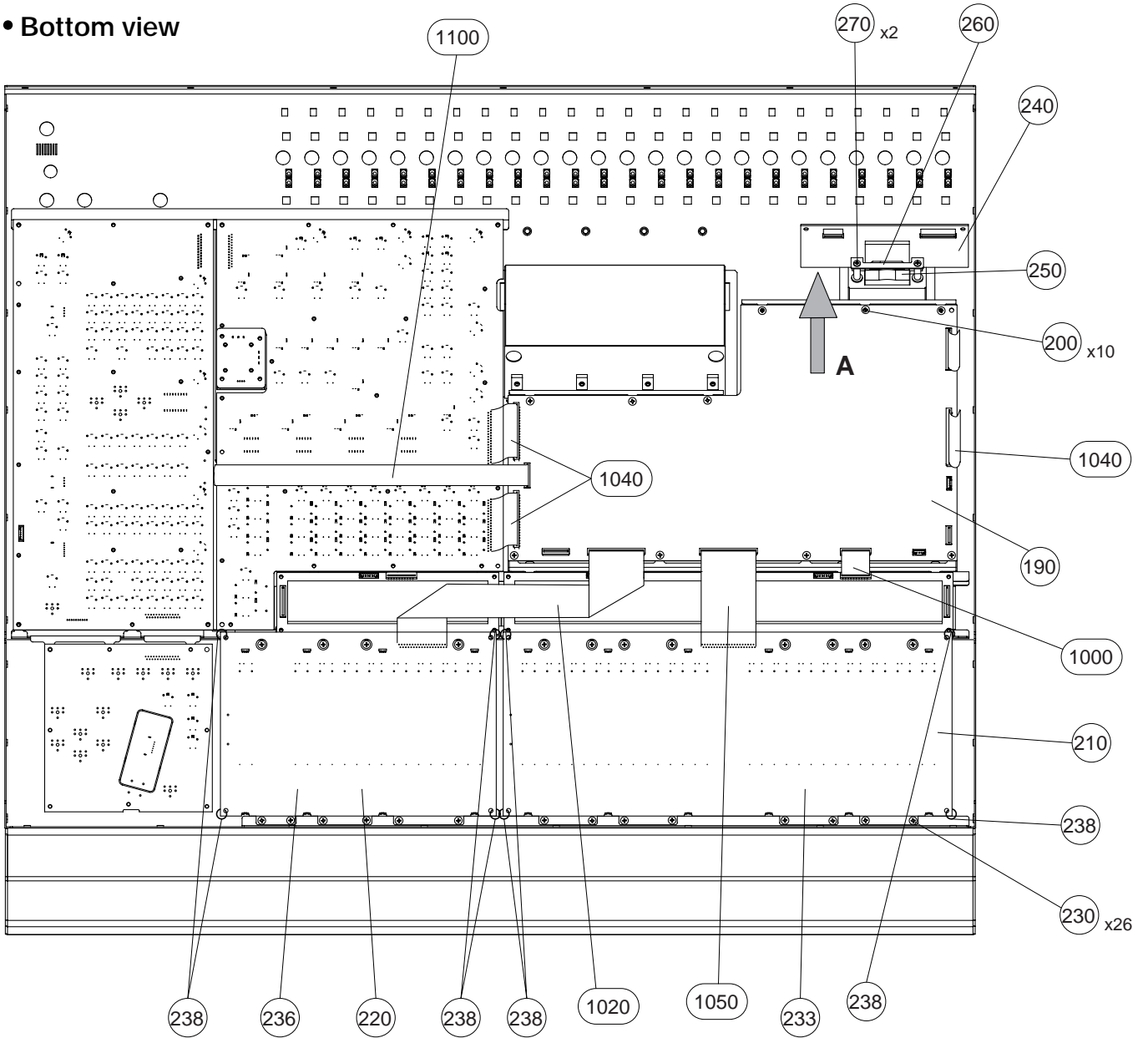




A view (Back side)

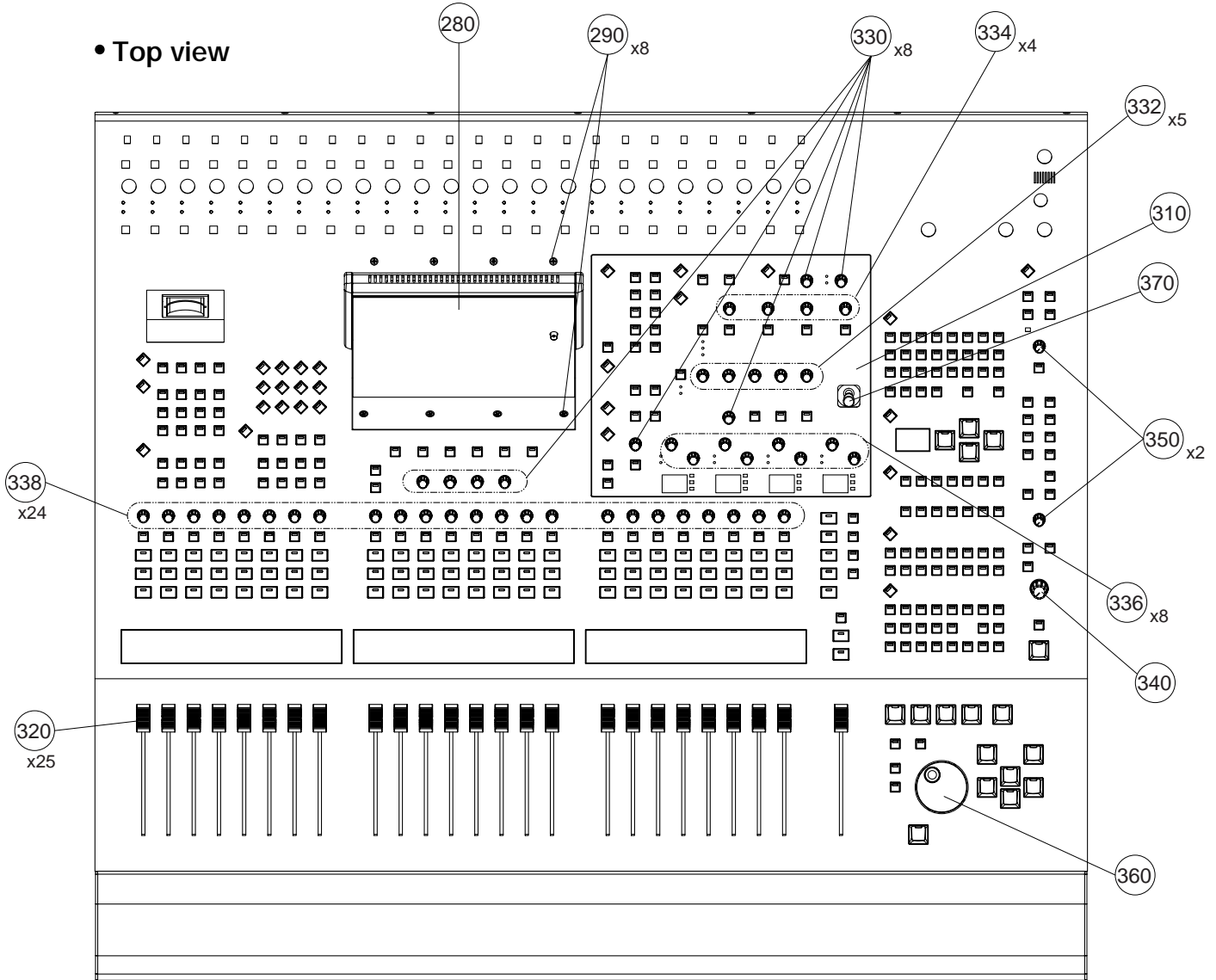
265 x2

• Bottom view

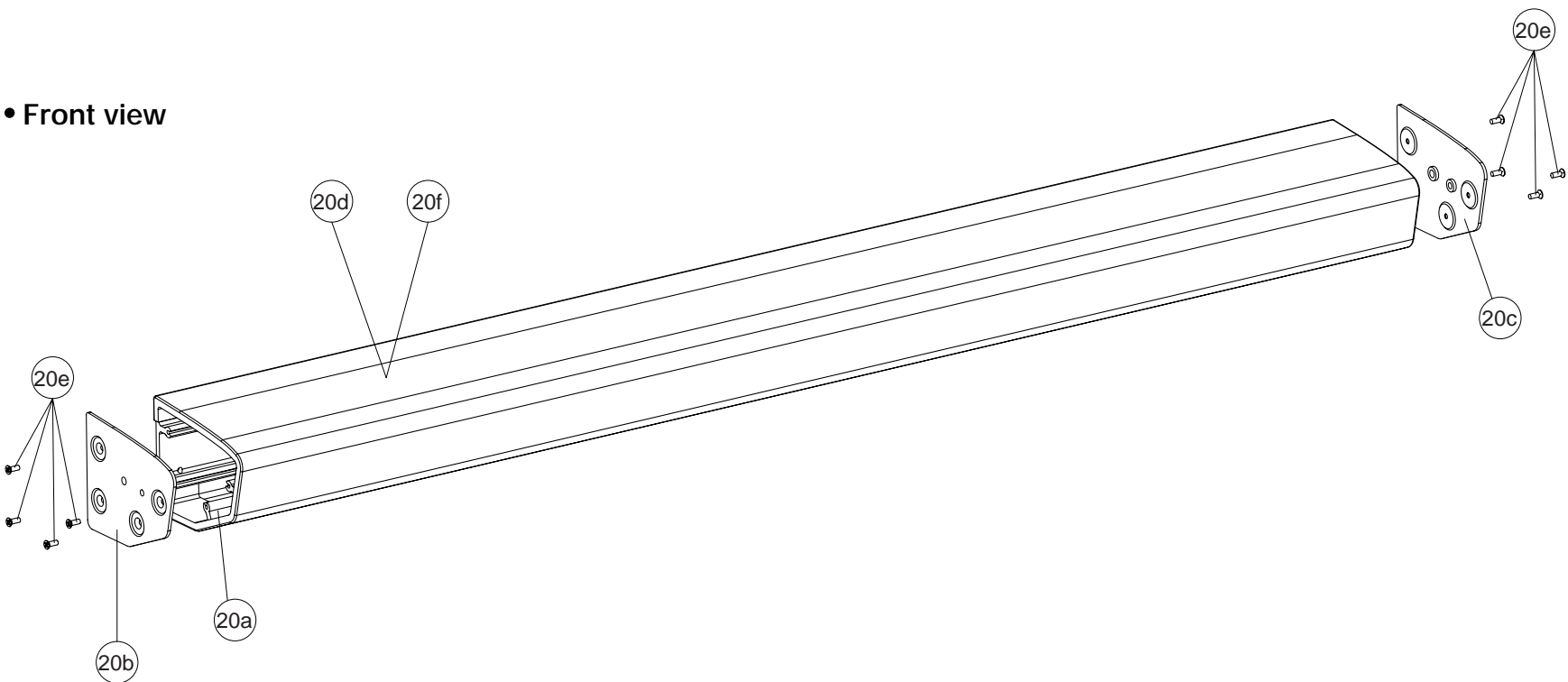


LCD assembly: See page 22.

• Top view



• Front Pad Assembly



• Front view

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* 10	--	CONTROL PANEL ASSEMBLY		DM2000 (V642710)		
* 10	V8402300	Control Panel				
* 20	V6341100	Front Pad Assembly				
20a	--	Front Pad		(V841690)		
20b	--	Front Pad Angle Bracket L	LEFT	(V775910)		
20c	--	Front Pad Angle Bracket R	RIGHT	(V775920)		
20d	--	Leather	YATP 128640	(V841780)		
* 20e	VE447600	Flat Head Tapping Screw-B	3.0X12 MFZN2BL		8	
20f	--	Adhesive Tape	#5000NS	(V926420)		
30	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		10	01
40	VB857600	Bind Head Screw	5.0X20 MFZN2BL		2	01
45	--	Adhesive Tape	#500 W=3	(V36240)		
48	--	Sponge Spacer-P	Panel	(V911600)	9	
* 50	V8127000	LED Lens	x2	PEAK 1-24,SIGNAL 1-24	24	
* 60	V6435100	FL Cover			3	
* 70	V6435000	Cover, 7 Seg. LED		SCENE MEMORY		
* 80	V6180000	LED Lens	x3	SOLO,MIX,FB,AUX1/MATRIX1, AUX5,AUX9,GATE,COMP, FREQUENCY,Q,dB,Hz,kHz	11	
* 90	V6286300	Circuit Board	DM2K PN1			
* 100a	AAX33160	Circuit Board	DM2K PN2 1/2	(V628640)		
* 100b	AAX33170	Circuit Board	DM2K PN2 2/2	(V628640)		
* 110	V6286500	Circuit Board	DM2K PN3			
* 120	V7765300	Circuit Board	DM2K PN4 (PN4COM)	(V830050)		
* 130	V6597600	Holder	SUB-CPU-1			
* 140	V6597700	Holder	SUB-CPU-2		2	
145	CB817510	Cord Binder	S-14B		2	03
150	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		74	01
* 160	V6512000	Display Tube	M40ST01AA			
* 170	V6512100	Display Tube	M40ST01AB		2	
180	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		12	01
* 190	V6285300	Circuit Board	DM2K SUB			
200	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		10	01
* 210	V6286600	Circuit Board	DM2K FD1			
* 220	V6286800	Circuit Board	DM2K FD2			
230	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		26	01
233	--	Insulation Sheet-FD1		(V908830)		
236	--	Insulation Sheet-FD2		(V908840)		
238	CB069250	Cord Holder	BK-1		8	01
* 240	V6288200	Circuit Board	DM2K DS (PN4COM)	(V830050)		
250	V3882500	Escutcheon, Smart Media	K-CB			01
* 260	V4227300	Angle Bracket, Smart Media				
265	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		2	01
270	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		2	01
* 280	V6428800	LCD Assembly				
290	EP600790	Flat Head Tapping Screw-B	3.0X8 MFZN2BL		12	01
* 310	V6312500	Panel Sheet				
320	V7421900	Fader Knob Silver		1-24,STEREO	25	05
* 330	V8486000	Encoder Knob Light Gray		EFFECT 1-4,TIME,MIX/FB, PAN/SURROUND,ATT.	8	
* 332	V8486200	Encoder Knob M_Gray		THRESHOLD,RANGE/RATIO, ATTACK,DECAY/RELEASE, HOLD/GAIN	5	
* 334	V8486300	Encoder Knob Blue		LEVEL 1-4	4	
* 336	V8486400	Encoder Knob Green/M_Gray		F/Q,GAIN (LOW), F/Q,GAIN (LOW-MID), F/Q,GAIN (HIGH-MID), F/Q,GAIN (HIGH)	8	
* 338	V8486500	Encoder Knob Blue/M_Gray		CH 1-24	24	
340	VN009700	Knob Black/Light Gray	L	CONTROL ROOM LEVEL		03
350	VS085700	Knob Gray/Dark Gray	S	SOLO CONTRAST, SURROUND MONITOR LEVEL	2	03
360	V6529100	Knob Wheel		PARAMETER WHEEL		14
* 370	V6429800	Joy Stick Knob		JOY STICK		
* 1000	MF120070	Connector Assembly	20P 70mm P=1.25			
* 1010	MF126060	Connector Assembly	26P 60mm P=1.25		2	
* 1020	MF136300	Connector Assembly	36P 300mm P=1.25			
* 1040	MF140100	Connector Assembly	40P 100mm P=1.25		3	
* 1050	MF140120	Connector Assembly	40P 120mm P=1.25			
* 1070	VT645700	Jumper Wire	FVP=2.0C26SB12-60		2	

*: New Parts

RANK: Japan only

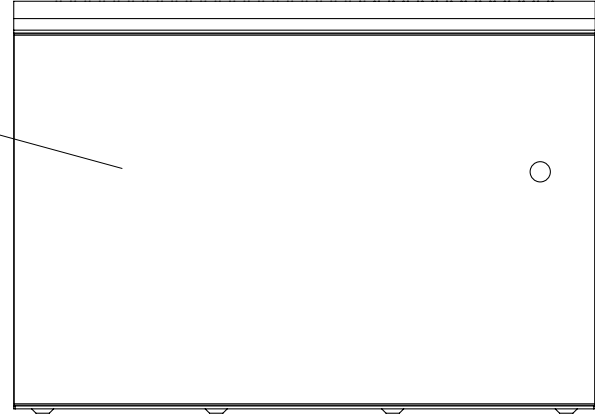
REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
1100	--	Sponge Spacer-1			(V910540)	2	
1110	--	Sponge Spacer-2			(V910550)		
1120	--	Sponge Spacer-3			(V910560)	3	

*: New Parts

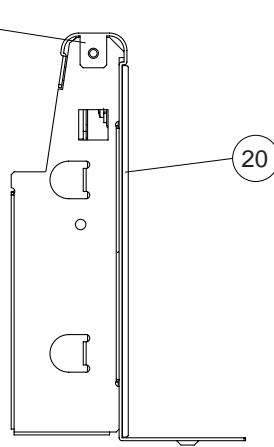
RANK: Japan only

■ LCD ASSEMBLY

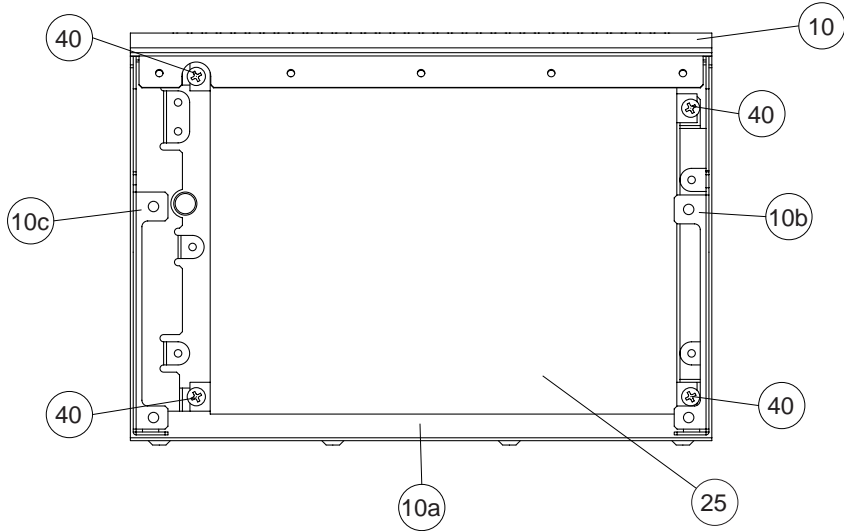
• Top view



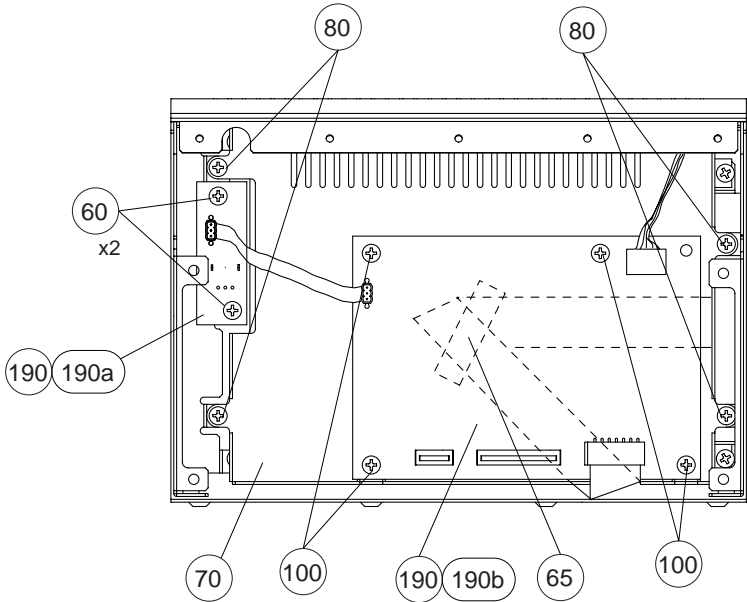
• Left side view



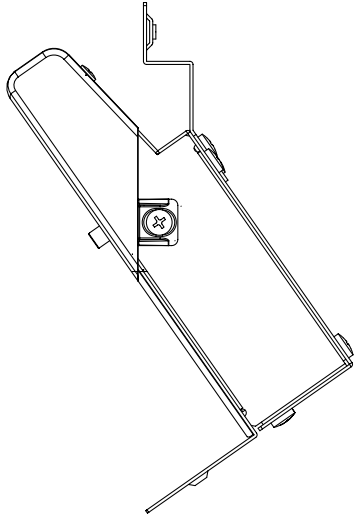
• Bottom view



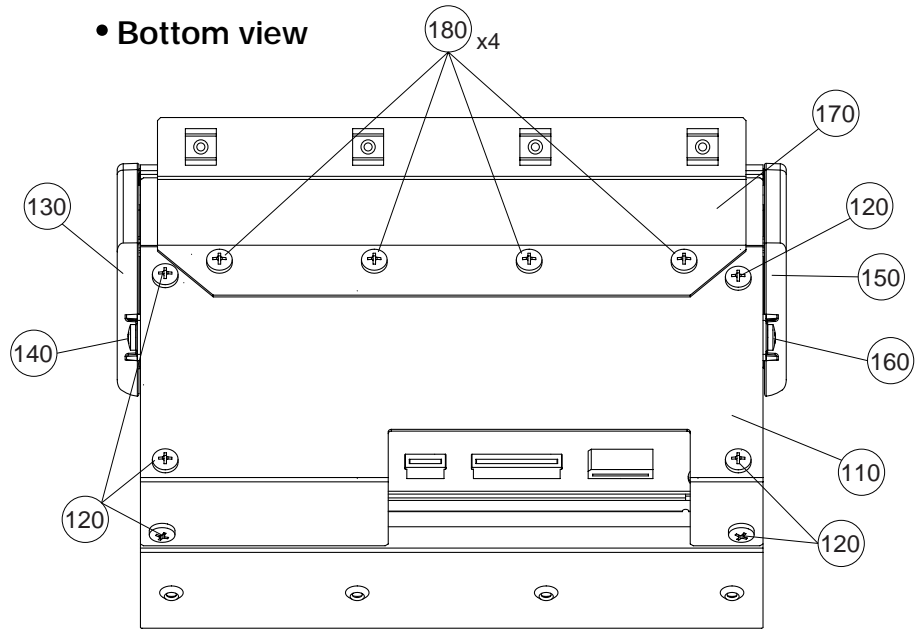
• Bottom view



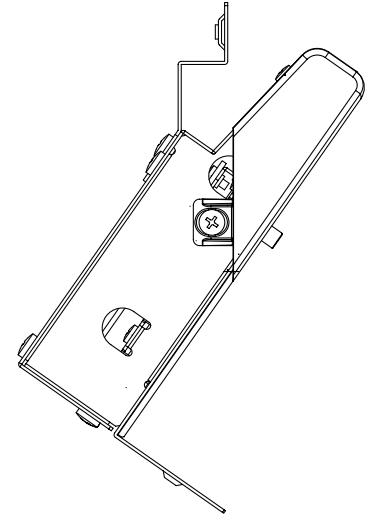
• Right side view



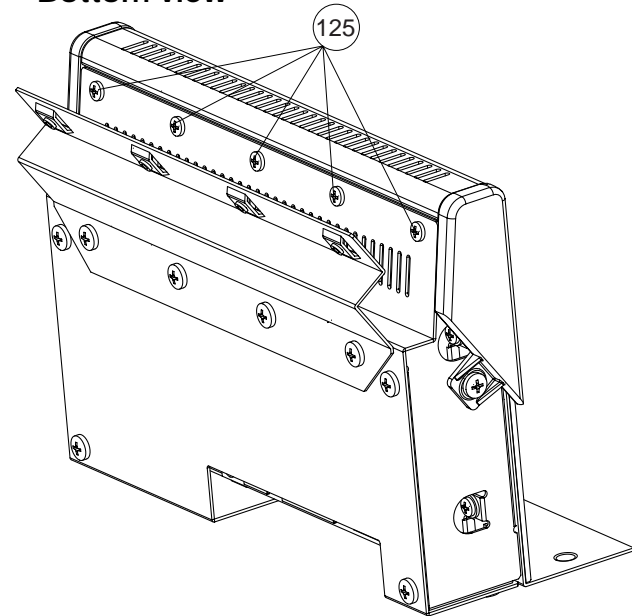
• Bottom view



• Left side view



• Bottom view



REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
*	V6428800	LCD ASSEMBLY		DM2000		
*	V6437400	LCD Case Assembly				
10a	--	LCD Case		(V636340)		
10b	--	LCD Side Panel L	LEFT	(V643630)		
10c	--	LCD Side Panel R	RIGHT	(V643650)		
*	V6363500	LCD Cover				
25	V5125700	LCD	EDMMPU3BDF			24
40	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		4	01
60	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		2	01
65	VA126100	Adhesive Tape	12X50			03
*	V6363600	LCD Shield Panel				
80	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		4	01
100	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		4	01
*	V6363700	Rear LCD Case				
120	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		6	01
125	VP157900	Bind Head Tapping Screw-B	A3.0X6 MFZN2BL		5	01
*	V6363900	LCD Pad R				
140	EG340190	Bind Head Tapping Screw-B	4.0X8 MFZN2BL			01
*	V6363800	LCD Pad L				
160	EG340190	Bind Head Tapping Screw-B	4.0X8 MFZN2BL			01
*	V6364000	LCD Bracket				
180	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
*	V8249100	Circuit Board	DM2 LCDCOM CNT+INV			
190a	--	Circuit Board	DM2K CNT (LCDCOM)	(V824910)(V646840)		
190b	--	Circuit Board	DM2K INV (LCDCOM)	(V824910)(V646830)		

*: New Parts

RANK: Japan only

ELECTRICAL PARTS

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		ELECTRICAL PARTS		DM2000		
*	V6469000	Circuit Board	DM2K 2TRI (2TRCOM)	(V628810)(XZ035B0)		
*	V6469100	Circuit Board	DM2K PHN (2TRCOM)	(V628810)(XZ035B0)		
*	V6285400	Circuit Board	DM2K AD	(XZ020B0)		
*	V6468500	Circuit Board	DM2K ANI	(XZ032B0)		
*	V6287300	Circuit Board	DM2K BRG	(XZ031D0)		
*	V6468600	Circuit Board	DM2K LRG (CRCOM)	(V628790)(XZ033A0)		
*	V6468700	Circuit Board	DM2K SML (CRCOM)	(V628790)(XZ033A0)		
*	V7765500	Circuit Board	DM2K CPU	(X0383B0)		
*	V6285500	Circuit Board	DM2K DA1	(XZ021B0)		
*	V6285600	Circuit Board	DM2K DA2	(XZ022B0)		
*	V6285200	Circuit Board	DM2K DSP	(XZ018B0)		
*	V6286600	Circuit Board	DM2K FD1	(XZ029B0)		
*	V6286800	Circuit Board	DM2K FD2	(XZ030B0)		
*	V6285900	Circuit Board	DM2K JK1	(XZ024B0)		
*	V6286200	Circuit Board	DM2K JK2	(XZ025B0)		
*	V8249100	Circuit Board	DM2 LCDCOM CNT+INV	(X2160B0)		
	--	Circuit Board	DM2K CNT (LCDCOM)	(V646840)(X2160B0)		
	--	Circuit Board	DM2K INV (LCDCOM)	(V646830)(X2160B0)		
*	V6285800	Circuit Board	DM2K OPT	(XZ023B0)		
*	V6286300	Circuit Board	DM2K PN1	(XZ026B0)		
*	AAX33160	Circuit Board	DM2K PN2 1/2	(V628640)(XZ027B0)		
*	AAX33170	Circuit Board	DM2K PN2 2/2	(V628640)(XZ027B0)		
*	V6286500	Circuit Board	DM2K PN3	(XZ028B0)		
*	V7765300	Circuit Board	DM2K PN4 (PN4COM)	(V830050)(XZ219B0)		
*	V6288200	Circuit Board	DM2K DS (PN4COM)	(V830050)(XZ219B0)		
*	V6468800	Circuit Board	DM2K ST (STCOM)	(V628800)(XZ034A0)		
*	V6468900	Circuit Board	DM2K STD (STCOM)	(V628800)(XZ034A0)		
*	V6285300	Circuit Board	DM2K SUB	(XZ019B0)		
*	V6543900	Circuit Board	DM2K SW	(X2215B0)		
⚠	V6526100	Power Supply Unit	XR-642 J,UL,CSA,S			
*	V6469000	Circuit Board	DM2K 2TRI (2TRCOM)	(V628810)(XZ035B0)		
*	V6469100	Circuit Board	DM2K PHN (2TRCOM)	(V628810)(XZ035B0)		
	VT960700	Holder, Microphone				05
*	V6435400	Holder, Phones	x2			
	VT572400	Mic. Cushion				01
	VT572500	Mic. Cover				01
	--	Jumper Wire	0.55	(VA07890)		
158	UU167100	Electrolytic Cap.	10.00 50.0V			01
C101	UU167100	Electrolytic Cap.	10.00 50.0V			01
-104	UU147470	Electrolytic Cap.	47.00 25.0V			01
C105	UU147470	Electrolytic Cap.	47.00 25.0V			01
C106	UU147470	Electrolytic Cap.	47.00 25.0V			01
C107	VF466800	Ceramic Capacitor-B	100P 50V K			01
-116	VF466800	Ceramic Capacitor-B	100P 50V K			01
C117	UU147470	Electrolytic Cap.	47.00 25.0V			01
-120	UU147470	Electrolytic Cap.	47.00 25.0V			01
C121	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
-124	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C125	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C126	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C201	UU167100	Electrolytic Cap.	10.00 50.0V			01
C202	UU167100	Electrolytic Cap.	10.00 50.0V			01
C203	VF466800	Ceramic Capacitor-B	100P 50V K			01
C204	VF466800	Ceramic Capacitor-B	100P 50V K			01
C205	UU138220	Electrolytic Cap.	220.00 16.0V			01
C206	UU138220	Electrolytic Cap.	220.00 16.0V			01
C207	UU147470	Electrolytic Cap.	47.00 25.0V			01
C208	VJ097400	Electrolytic Cap.-KL	10.00 50.0V			01
C209	VG278400	Ceramic Capacitor-B	220P 50V K			01
C210	UU147470	Electrolytic Cap.	47.00 25.0V			01
C211	VG278400	Ceramic Capacitor-B	220P 50V K			01
C212	VF466700	Ceramic Capacitor-SL	47P 50V J			01
C213	UU147470	Electrolytic Cap.	47.00 25.0V			01
C214	UU147470	Electrolytic Cap.	47.00 25.0V			01
C215	VF466700	Ceramic Capacitor-SL	47P 50V J			01
C216	UU147470	Electrolytic Cap.	47.00 25.0V			01
C217	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
-220	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C221	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01

* New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
-224	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C226	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
-228	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
CN101	VB994900	Base Post Connector	MQ 9P TE			01
CN201	VA252400	Base Post Connector	MQ 12P TE			03
* CN202	VU066300	Connector Assembly	MIC&SAN 2P			
	JE000270	Condenser Mic.	WM-034C	MIC		03
EM101	FZ006920	LC Filter	MTB271KBTBM			01
-106	FZ006920	LC Filter	MTB271KBTBM			01
EM107	FZ006970	LC Filter	MTY223NBTBM			02
EM108	FZ006970	LC Filter	MTY223NBTBM			02
EM201	FZ007070	LC Filter	MTX222MBTBM			01
EM202	FZ007070	LC Filter	MTX222MBTBM			01
EM203	FZ006970	LC Filter	MTY223NBTBM			02
-206	FZ006970	LC Filter	MTY223NBTBM			02
IC101	XM356A00	IC	NJM2068L-D	OP AMP		02
IC102	XM356A00	IC	NJM2068L-D	OP AMP		02
IC201	XP844A00	IC	NJM4556AL	OP AMP		02
IC202	XM356A00	IC	NJM2068L-D	OP AMP		02
JK101	VS056300	Phone Jack	HLJ7001-01	2TR IN ANALOG 1 L		01
JK102	VS056300	Phone Jack	HLJ7001-01	2TR IN ANALOG 1 R		01
JK103	VM725600	Pin Jack	E 2P YKC21-3045	2TR IN ANALOG 2 L/R		02
JK201	LB302070	Phone Jack	HLJ0544	PHONES OUT		03
K201	V1474400	Terminal Plate				01
K202	V1474400	Terminal Plate				01
R101	HF458100	Carbon Resistor	100.0K 1/4 J			01
-104	HF458100	Carbon Resistor	100.0K 1/4 J			01
* R105	HB027270	Metal Film Resistor	27.0K 1/4 F			
* R106	HB027270	Metal Film Resistor	27.0K 1/4 F			
* R107	HB027160	Metal Film Resistor	16.0K 1/4 F			
* -110	HB027160	Metal Film Resistor	16.0K 1/4 F			
R111	HF455220	Carbon Resistor	220.0 1/4 J			01
R112	HF455220	Carbon Resistor	220.0 1/4 J			01
* R113	HB027270	Metal Film Resistor	27.0K 1/4 F			
* R114	HB027270	Metal Film Resistor	27.0K 1/4 F			
R115	HF455220	Carbon Resistor	220.0 1/4 J			01
R116	HF455220	Carbon Resistor	220.0 1/4 J			01
R117	HB027100	Metal Film Resistor	10.0K 1/4 F			
R118	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R119	HB026820	Metal Film Resistor	8.2K 1/4 F			
* R120	HB026820	Metal Film Resistor	8.2K 1/4 F			
R121	HB027100	Metal Film Resistor	10.0K 1/4 F			
R122	HB027100	Metal Film Resistor	10.0K 1/4 F			
R123	HB027120	Metal Film Resistor	12.0K 1/4 F			01
R124	HB027120	Metal Film Resistor	12.0K 1/4 F			01
R125	HF454390	Carbon Resistor	39.0 1/4 J			01
-128	HF454390	Carbon Resistor	39.0 1/4 J			01
R129	HF458100	Carbon Resistor	100.0K 1/4 J			01
-132	HF458100	Carbon Resistor	100.0K 1/4 J			01
* R201	HB026430	Metal Film Resistor	4.3K 1/4 F			
* R202	HB026430	Metal Film Resistor	4.3K 1/4 F			
* R203	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R204	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R205	HB026240	Metal Film Resistor	2.4K 1/4 F			
* R206	HB026240	Metal Film Resistor	2.4K 1/4 F			
R207	HB027100	Metal Film Resistor	10.0K 1/4 F			
R208	HB027100	Metal Film Resistor	10.0K 1/4 F			
R209	HF458100	Carbon Resistor	100.0K 1/4 J			01
R210	HF458100	Carbon Resistor	100.0K 1/4 J			01
R211	VC745000	Metal Oxide Film Resistor	100.0 1W J			01
R212	VC745000	Metal Oxide Film Resistor	100.0 1W J			01
R213	HF457100	Carbon Resistor	10.0K 1/4 J			01
R214	HF457100	Carbon Resistor	10.0K 1/4 J			01
R215	HF457150	Carbon Resistor	15.0K 1/4 J			01
R216	HF456220	Carbon Resistor	2.2K 1/4 J			01
R217	HF456220	Carbon Resistor	2.2K 1/4 J			01
R218	HF455220	Carbon Resistor	220.0 1/4 J			01
R219	HF457470	Carbon Resistor	47.0K 1/4 J			01
R220	HF455220	Carbon Resistor	220.0 1/4 J			01
* R221	HB025220	Metal Film Resistor	220.0 1/4 F			

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* R222	HB027220	Metal Film Resistor	22.0K 1/4 F			
R223	HF454390	Carbon Resistor	39.0 1/4 J			01
R224	HF457220	Carbon Resistor	22.0K 1/4 J			01
R225	HF455220	Carbon Resistor	220.0 1/4 J			01
* R226	HB026470	Metal Film Resistor	4.7K 1/4 F			
R227	HB027100	Metal Film Resistor	10.0K 1/4 F			
R228	HF454390	Carbon Resistor	39.0 1/4 J			01
R229	HF458100	Carbon Resistor	100.0K 1/4 J			01
TR201	VK432900	Transistor	2SD1915(F) S,T			01
TR202	VK432900	Transistor	2SD1915(F) S,T			01
VR201	VQ901400	Rotary Variable Resistor	A20Kx2 RK14K12B	PHONES LEVEL		03
* VR202	V6226000	Rotary Pot.	A 20K RK11K112	TALKBACK LEVEL		
* C001	V6285400	Circuit Board	DM2K AD	(XZ020B0)		
	UR877470	Electrolytic Cap.	47.00 63.0V			
C002	UR848100	Electrolytic Cap.	100.00 25.0V			01
C003	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C004	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C005	V5829300	Electrolytic Cap. (chip)	100 16V 16SG100M+T			04
C006	V5829300	Electrolytic Cap. (chip)	100 16V 16SG100M+T			04
C007	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-009	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C010	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C011	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C012	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C101	UU147470	Electrolytic Cap.	47.00 25.0V			01
C102	UU147470	Electrolytic Cap.	47.00 25.0V			01
C103	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
-106	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C107	UA353220	Mylar Capacitor	2200P 50V J			01
C108	UA353220	Mylar Capacitor	2200P 50V J			01
C109	UU147220	Electrolytic Cap.	22.00 25.0V			01
C110	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C111	UU147220	Electrolytic Cap.	22.00 25.0V			01
C112	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C113	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C114	UU167100	Electrolytic Cap.	10.00 50.0V			01
C115	UU167100	Electrolytic Cap.	10.00 50.0V			01
C116	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C117	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C118	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C119	UU167100	Electrolytic Cap.	10.00 50.0V			01
C120	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C121	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
-124	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C201	UU147470	Electrolytic Cap.	47.00 25.0V			01
C202	UU147470	Electrolytic Cap.	47.00 25.0V			01
C203	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
-206	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C207	UA353220	Mylar Capacitor	2200P 50V J			01
C208	UA353220	Mylar Capacitor	2200P 50V J			01
C209	UU147220	Electrolytic Cap.	22.00 25.0V			01
C210	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C211	UU147220	Electrolytic Cap.	22.00 25.0V			01
C212	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C213	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C214	UU167100	Electrolytic Cap.	10.00 50.0V			01
C215	UU167100	Electrolytic Cap.	10.00 50.0V			01
C216	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C217	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C218	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C219	UU167100	Electrolytic Cap.	10.00 50.0V			01
C220	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C221	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
-224	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C301	UU147470	Electrolytic Cap.	47.00 25.0V			01
C302	UU147470	Electrolytic Cap.	47.00 25.0V			01
C303	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
-306	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C307	UA353220	Mylar Capacitor	2200P 50V J			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C308	UA353220	Mylar Capacitor	2200P 50V J			01
C309	UU147220	Electrolytic Cap.	22.00 25.0V			01
C310	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C311	UU147220	Electrolytic Cap.	22.00 25.0V			01
C312	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C313	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C314	UU167100	Electrolytic Cap.	10.00 50.0V			01
C315	UU167100	Electrolytic Cap.	10.00 50.0V			01
C316	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C317	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C318	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C319	UU167100	Electrolytic Cap.	10.00 50.0V			01
C320	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C321	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
-324	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C401	UU147470	Electrolytic Cap.	47.00 25.0V			01
C402	UU147470	Electrolytic Cap.	47.00 25.0V			01
C403	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
-406	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C407	UA353220	Mylar Capacitor	2200P 50V J			01
C408	UA353220	Mylar Capacitor	2200P 50V J			01
C409	UU147220	Electrolytic Cap.	22.00 25.0V			01
C410	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C411	UU147220	Electrolytic Cap.	22.00 25.0V			01
C412	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C413	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C414	UU167100	Electrolytic Cap.	10.00 50.0V			01
C415	UU167100	Electrolytic Cap.	10.00 50.0V			01
C416	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C417	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C418	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C419	UU167100	Electrolytic Cap.	10.00 50.0V			01
C420	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C421	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
-424	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C501	UU147470	Electrolytic Cap.	47.00 25.0V			01
C502	UU147470	Electrolytic Cap.	47.00 25.0V			01
C503	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
-506	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C507	UA353220	Mylar Capacitor	2200P 50V J			01
C508	UA353220	Mylar Capacitor	2200P 50V J			01
C509	UU147220	Electrolytic Cap.	22.00 25.0V			01
C510	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C511	UU147220	Electrolytic Cap.	22.00 25.0V			01
C512	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C513	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C514	UU167100	Electrolytic Cap.	10.00 50.0V			01
C515	UU167100	Electrolytic Cap.	10.00 50.0V			01
C516	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C517	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C518	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C519	UU167100	Electrolytic Cap.	10.00 50.0V			01
C520	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C521	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
-524	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C601	UU147470	Electrolytic Cap.	47.00 25.0V			01
C602	UU147470	Electrolytic Cap.	47.00 25.0V			01
C603	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
-606	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C607	UA353220	Mylar Capacitor	2200P 50V J			01
C608	UA353220	Mylar Capacitor	2200P 50V J			01
C609	UU147220	Electrolytic Cap.	22.00 25.0V			01
C610	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C611	UU147220	Electrolytic Cap.	22.00 25.0V			01
C612	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C613	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C614	UU167100	Electrolytic Cap.	10.00 50.0V			01
C615	UU167100	Electrolytic Cap.	10.00 50.0V			01
C616	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C617	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C618	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C619	UU167100	Electrolytic Cap.	10.00 50.0V			01
C620	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C621	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
-624	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
CN001	VJ861600	Wire Trap	52147 16P TE			01
CN002	VI879000	Cable Holder	51048 12P TE			01
CN003	VI878800	Cable Holder	51048 10P TE			01
CN101	VI378700	Connector Socket	MQ 9P SE			01
CN102	VI378700	Connector Socket	MQ 9P SE			01
CN201	VI378700	Connector Socket	MQ 9P SE			01
CN202	VI378700	Connector Socket	MQ 9P SE			01
CN301	VI378700	Connector Socket	MQ 9P SE			01
CN302	VI378700	Connector Socket	MQ 9P SE			01
CN401	VI378700	Connector Socket	MQ 9P SE			01
CN402	VI378700	Connector Socket	MQ 9P SE			01
CN501	VI378700	Connector Socket	MQ 9P SE			01
CN502	VI378700	Connector Socket	MQ 9P SE			01
CN601	VI378700	Connector Socket	MQ 9P SE			01
CN602	VI378700	Connector Socket	MQ 9P SE			01
EM001	FZ006970	LC Filter	MTY223NBTBM			02
-005	FZ006970	LC Filter	MTY223NBTBM			02
IC001	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC002	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC003	XM182A00	IC	TC7S04F	INVERTER		01
IC101	XF291A00	IC	UPC4570G2	OP AMP		03
IC102	XF291A00	IC	UPC4570G2	OP AMP		03
* IC103	XZ298A00	IC	AK5393-VS-E2	ADC		
IC201	XF291A00	IC	UPC4570G2	OP AMP		03
IC202	XF291A00	IC	UPC4570G2	OP AMP		03
* IC203	XZ298A00	IC	AK5393-VS-E2	ADC		
IC301	XF291A00	IC	UPC4570G2	OP AMP		03
IC302	XF291A00	IC	UPC4570G2	OP AMP		03
* IC303	XZ298A00	IC	AK5393-VS-E2	ADC		
IC401	XF291A00	IC	UPC4570G2	OP AMP		03
IC402	XF291A00	IC	UPC4570G2	OP AMP		03
* IC403	XZ298A00	IC	AK5393-VS-E2	ADC		
IC501	XF291A00	IC	UPC4570G2	OP AMP		03
IC502	XF291A00	IC	UPC4570G2	OP AMP		03
* IC503	XZ298A00	IC	AK5393-VS-E2	ADC		
IC601	XF291A00	IC	UPC4570G2	OP AMP		03
IC602	XF291A00	IC	UPC4570G2	OP AMP		03
* IC603	XZ298A00	IC	AK5393-VS-E2	ADC		
J001	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
L001	VS740100	Chip Inductance	BLM21B751S 2125			03
-011	VS740100	Chip Inductance	BLM21B751S 2125			03
R101	HF458100	Carbon Resistor	100.0K 1/4 J			01
R102	HF458100	Carbon Resistor	100.0K 1/4 J			01
R103	HB027100	Metal Film Resistor	10.0K 1/4 F			
R104	HB027100	Metal Film Resistor	10.0K 1/4 F			
R109	HB026220	Metal Film Resistor	2.2K 1/4 F			01
-114	HB026220	Metal Film Resistor	2.2K 1/4 F			01
* R115	HB026270	Metal Film Resistor	2.7K 1/4 F			
* R116	HB027110	Metal Film Resistor	11.0K 1/4 F			
* R117	HB026270	Metal Film Resistor	2.7K 1/4 F			
R118	HF454470	Carbon Resistor	47.0 1/4 J			01
-121	HF454470	Carbon Resistor	47.0 1/4 J			01
R122	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-127	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R128	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R129	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R201	HF458100	Carbon Resistor	100.0K 1/4 J			01
R202	HF458100	Carbon Resistor	100.0K 1/4 J			01
R203	HB027100	Metal Film Resistor	10.0K 1/4 F			
R204	HB027100	Metal Film Resistor	10.0K 1/4 F			
R209	HB026220	Metal Film Resistor	2.2K 1/4 F			01
-214	HB026220	Metal Film Resistor	2.2K 1/4 F			01
* R215	HB026270	Metal Film Resistor	2.7K 1/4 F			
* R216	HB027110	Metal Film Resistor	11.0K 1/4 F			
* R217	HB026270	Metal Film Resistor	2.7K 1/4 F			

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R218	HF454470	Carbon Resistor	47.0 1/4 J			01
-221	HF454470	Carbon Resistor	47.0 1/4 J			01
R222	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-227	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R228	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R229	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R301	HF458100	Carbon Resistor	100.0K 1/4 J			01
R302	HF458100	Carbon Resistor	100.0K 1/4 J			01
R303	HB027100	Metal Film Resistor	10.0K 1/4 F			01
R304	HB027100	Metal Film Resistor	10.0K 1/4 F			01
R309	HB026220	Metal Film Resistor	2.2K 1/4 F			01
-314	HB026220	Metal Film Resistor	2.2K 1/4 F			01
* R315	HB026270	Metal Film Resistor	2.7K 1/4 F			01
* R316	HB027110	Metal Film Resistor	11.0K 1/4 F			01
* R317	HB026270	Metal Film Resistor	2.7K 1/4 F			01
R318	HF454470	Carbon Resistor	47.0 1/4 J			01
-321	HF454470	Carbon Resistor	47.0 1/4 J			01
R322	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-327	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R328	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R329	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R401	HF458100	Carbon Resistor	100.0K 1/4 J			01
R402	HF458100	Carbon Resistor	100.0K 1/4 J			01
R403	HB027100	Metal Film Resistor	10.0K 1/4 F			01
R404	HB027100	Metal Film Resistor	10.0K 1/4 F			01
R409	HB026220	Metal Film Resistor	2.2K 1/4 F			01
-414	HB026220	Metal Film Resistor	2.2K 1/4 F			01
* R415	HB026270	Metal Film Resistor	2.7K 1/4 F			01
* R416	HB027110	Metal Film Resistor	11.0K 1/4 F			01
* R417	HB026270	Metal Film Resistor	2.7K 1/4 F			01
R418	HF454470	Carbon Resistor	47.0 1/4 J			01
-421	HF454470	Carbon Resistor	47.0 1/4 J			01
R422	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-427	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R428	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R429	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R501	HF458100	Carbon Resistor	100.0K 1/4 J			01
R502	HF458100	Carbon Resistor	100.0K 1/4 J			01
R503	HB027100	Metal Film Resistor	10.0K 1/4 F			01
R504	HB027100	Metal Film Resistor	10.0K 1/4 F			01
R509	HB026220	Metal Film Resistor	2.2K 1/4 F			01
-514	HB026220	Metal Film Resistor	2.2K 1/4 F			01
* R515	HB026270	Metal Film Resistor	2.7K 1/4 F			01
* R516	HB027110	Metal Film Resistor	11.0K 1/4 F			01
* R517	HB026270	Metal Film Resistor	2.7K 1/4 F			01
R518	HF454470	Carbon Resistor	47.0 1/4 J			01
-521	HF454470	Carbon Resistor	47.0 1/4 J			01
R522	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-527	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R528	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R529	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R601	HF458100	Carbon Resistor	100.0K 1/4 J			01
R602	HF458100	Carbon Resistor	100.0K 1/4 J			01
R603	HB027100	Metal Film Resistor	10.0K 1/4 F			01
R604	HB027100	Metal Film Resistor	10.0K 1/4 F			01
R609	HB026220	Metal Film Resistor	2.2K 1/4 F			01
-614	HB026220	Metal Film Resistor	2.2K 1/4 F			01
* R615	HB026270	Metal Film Resistor	2.7K 1/4 F			01
* R616	HB027110	Metal Film Resistor	11.0K 1/4 F			01
* R617	HB026270	Metal Film Resistor	2.7K 1/4 F			01
R618	HF454470	Carbon Resistor	47.0 1/4 J			01
-621	HF454470	Carbon Resistor	47.0 1/4 J			01
R622	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-627	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R628	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R629	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
* W002	V8970400	Jumper Wire	FVP=2.0C26SB12-120			01
* W003	V8970300	Jumper Wire	FVP=2.0C26SB10-120			01
*	V6468500	Circuit Board	DM2K ANI	(XZ032B0)		01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
*	V6435700	Holder, Phones	x3			
*	V7539700	Cannon Angle				
159	--	Jumper Wire	0.55	(VA07890)		
C100	UR877470	Electrolytic Cap.	47.00 63.0V			
C101	VJ097400	Electrolytic Cap.-KL	10.00 50.0V			01
C102	VJ097400	Electrolytic Cap.-KL	10.00 50.0V			01
C103	VG278400	Ceramic Capacitor-B	220P 50V K			01
C104	VG278400	Ceramic Capacitor-B	220P 50V K			01
C105	VF467000	Ceramic Capacitor-B	1000P 50V K			01
C106	VF467000	Ceramic Capacitor-B	1000P 50V K			01
C107	UR819100	Electrolytic Cap.	1000 6.3V			01
C108	VF466600	Ceramic Capacitor-SL	10P 50V J			01
C109	VF466600	Ceramic Capacitor-SL	10P 50V J			01
C110	VG278400	Ceramic Capacitor-B	220P 50V K			01
C111	VG276600	Ceramic Capacitor-SL	22P 50V J			01
C112	VG276600	Ceramic Capacitor-SL	22P 50V J			01
C113	VF466800	Ceramic Capacitor-B	100P 50V K			01
C114	UU148100	Electrolytic Cap.	100.00 25.0V			01
C115	UU148100	Electrolytic Cap.	100.00 25.0V			01
C116	UU168100	Electrolytic Cap.	100.00 50.0V			01
C117	UU168100	Electrolytic Cap.	100.00 50.0V			01
C118	VG276600	Ceramic Capacitor-SL	22P 50V J			01
C119	VG276600	Ceramic Capacitor-SL	22P 50V J			01
C120	UU167100	Electrolytic Cap.	10.00 50.0V			01
C121	UU167100	Electrolytic Cap.	10.00 50.0V			01
C122	VF466800	Ceramic Capacitor-B	100P 50V K			01
-124	VF466800	Ceramic Capacitor-B	100P 50V K			01
C125	UU147470	Electrolytic Cap.	47.00 25.0V			01
C127	UR867100	Electrolytic Cap.	10.00 50.0V			01
C128	UA654470	Mylar Capacitor	0.0470 50V J			01
C129	UA654470	Mylar Capacitor	0.0470 50V J			01
C130	UR867100	Electrolytic Cap.	10.00 50.0V			01
C131	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
-138	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C139	UU147470	Electrolytic Cap.	47.00 25.0V			01
C140	UU148100	Electrolytic Cap.	100.00 25.0V			01
C141	UU148100	Electrolytic Cap.	100.00 25.0V			01
CN100	VB994900	Base Post Connector	MQ 9P TE			01
D100	VD631600	Diode	1SS133,176,HSS104			01
-102	VD631600	Diode	1SS133,176,HSS104			01
EM100	FZ006920	LC Filter	MTB271KBTBM			01
-105	FZ006920	LC Filter	MTB271KBTBM			01
IC100	XM356A00	IC	NJM2068L-D	OP AMP		02
IC101	XP844A00	IC	NJM4556AL	OP AMP		02
IC102	XM356A00	IC	NJM2068L-D	OP AMP		02
IC103	XM356A00	IC	NJM2068L-D	OP AMP		02
JK100	VS763000	Cannon Connector	NC3FAHR1-0	INPUT A		03
JK101	LB301920	Phone Jack	HLJ4306 STEREO	INPUT B		02
JK102	VS056300	Phone Jack	HLJ7001-01	INSERT OUT		01
JK103	LB301920	Phone Jack	HLJ4306 STEREO	INSERT IN		02
LD100	VH325200	LED	GL2PR6	PEAK 1-24		01
LD101	VH325300	LED	GL2EG6	SIGNAL 1-24		01
R100	VP441000	Metal Film Resistor	6.8K 1/4 F			01
R101	VP441000	Metal Film Resistor	6.8K 1/4 F			01
R102	HV755390	Flame Proof C. Resistor	390.0 1/4 J			01
R103	HF458100	Carbon Resistor	100.0K 1/4 J			01
R104	HF454100	Carbon Resistor	10.0 1/4 J			01
R105	HF454100	Carbon Resistor	10.0 1/4 J			01
R106	VP443000	Metal Film Resistor	47.0K 1/4 F			01
R107	VP443000	Metal Film Resistor	47.0K 1/4 F			01
R108	VP437400	Metal Film Resistor	220.0 1/4 F			01
R109	VP439700	Metal Film Resistor	2.0K 1/4 F			01
R110	VP439700	Metal Film Resistor	2.0K 1/4 F			01
R111	VP440600	Metal Film Resistor	4.7K 1/4 F			01
R112	HF454100	Carbon Resistor	10.0 1/4 J			01
R113	HF454100	Carbon Resistor	10.0 1/4 J			01
R114	VP439800	Metal Film Resistor	2.2K 1/4 F			01
R115	VP439800	Metal Film Resistor	2.2K 1/4 F			01
R116	VP434800	Metal Film Resistor	18.0 1/4 F			01
R117	VP442200	Metal Film Resistor	22.0K 1/4 F			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* R118	VP440900	Metal Film Resistor	6.2K 1/4 F			
* R119	VP440900	Metal Film Resistor	6.2K 1/4 F			
R120	VP442200	Metal Film Resistor	22.0K 1/4 F			01
R121	VP441400	Metal Film Resistor	10.0K 1/4 F			01
R122	VP441400	Metal Film Resistor	10.0K 1/4 F			01
R123	HF454390	Carbon Resistor	39.0 1/4 J			01
R124	HF458100	Carbon Resistor	100.0K 1/4 J			01
-126	HF458100	Carbon Resistor	100.0K 1/4 J			01
R127	HF454750	Carbon Resistor	75.0 1/4 J			01
R128	HF454750	Carbon Resistor	75.0 1/4 J			01
* R129	HB027160	Metal Film Resistor	16.0K 1/4 F			
* R130	HB027160	Metal Film Resistor	16.0K 1/4 F			
R131	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R132	HB027180	Metal Film Resistor	18.0K 1/4 F			01
* R133	V9008100	Metal Film Resistor	11.5K 1/4 D			
R134	HB027100	Metal Film Resistor	10.0K 1/4 F			
-136	HB027100	Metal Film Resistor	10.0K 1/4 F			
R137	HF458100	Carbon Resistor	100.0K 1/4 J			01
-139	HF458100	Carbon Resistor	100.0K 1/4 J			01
* R140	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R141	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R142	HB026910	Metal Film Resistor	9.1K 1/4 F			
* R145	HB026910	Metal Film Resistor	9.1K 1/4 F			
R146	HF454390	Carbon Resistor	39.0 1/4 J			01
R147	HF458100	Carbon Resistor	100.0K 1/4 J			01
R148	HB028100	Metal Film Resistor	100.0K 1/4 F			
R149	HB028100	Metal Film Resistor	100.0K 1/4 F			
R150	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R151	HB027820	Metal Film Resistor	82.0K 1/4 F			
R152	HB028100	Metal Film Resistor	100.0K 1/4 F			
* R153	HB027130	Metal Film Resistor	13.0K 1/4 F			
* R154	HB027820	Metal Film Resistor	82.0K 1/4 F			
R155	HB028100	Metal Film Resistor	100.0K 1/4 F			
R156	HF458100	Carbon Resistor	100.0K 1/4 J			01
R157	HF458100	Carbon Resistor	100.0K 1/4 J			01
R158	HF456470	Carbon Resistor	4.7K 1/4 J			01
R159	HF456470	Carbon Resistor	4.7K 1/4 J			01
R160	HF458100	Carbon Resistor	100.0K 1/4 J			01
-163	HF458100	Carbon Resistor	100.0K 1/4 J			01
R164	HF454750	Carbon Resistor	75.0 1/4 J			01
R165	HF457120	Carbon Resistor	12.0K 1/4 J			01
R166	HV755390	Flame Proof C. Resistor	390.0 1/4 J			01
R167	HV755390	Flame Proof C. Resistor	390.0 1/4 J			01
* R168	HB027470	Metal Film Resistor	47.0K 1/4 F			
R169	HB027100	Metal Film Resistor	10.0K 1/4 F			
SW100	VQ907900	Slide Switch	SSSU112-S06N-1	+48V ON/OFF 1-24		01
SW101	VQ901900	Push Switch	SPUN19-2N-W H6.5	PAD 26dB 1-24		03
SW102	VQ901900	Push Switch	SPUN19-2N-W H6.5	INSERT ON/OFF 1-24		03
TR100	IC224030	Transistor	2SC2240 GR,BL			01
TR101	IC224030	Transistor	2SC2240 GR,BL			01
TR102	IC174020	Transistor	2SC1740S R,S			01
TR103	IC174020	Transistor	2SC1740S R,S			01
TR104	VV912400	Transistor	2SA933ASTP R,S			01
-107	VV912400	Transistor	2SA933ASTP R,S			01
TR108	IC174020	Transistor	2SC1740S R,S			01
VR100	VT975100	Rotary Variable Resistor	5K	GAIN 1-24		04
* V6287300		Circuit Board	DM2K BRG	(XZ031D0)		
EP600230		Bind Head Tapping Screw-B	3.0X6 MFZN2BL			01
IL000690		Insulation Sheet	CSSX-G509			01
C001	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C007	UF066100	Electrolytic Cap. (chip)	1 50V			01
C013	UR848470	Electrolytic Cap.	470.00 25.0V			01
C040	UR639220	Electrolytic Cap.	2200 16.0V			01
C043	US061680	Ceramic Capacitor-SL(chip)	68P 50V J			01
C044	US062330	Ceramic Capacitor-SL(chip)	330P 50V J			01
C045	US062470	Ceramic Capacitor-SL(chip)	470P 50V J			01
C046	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C047	US061470	Ceramic Capacitor-CH(chip)	47P 50V J			01
C048	US063100	Ceramic Capacitor-B (chip)	1000P 50V K			01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C050	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C051	UB245220	Monolithic Ceramic Cap.	F 0.220 25V Z			01
* C052	V8878500	Electrolytic Cap. (chip)	150 16V			
* C053	V8878500	Electrolytic Cap. (chip)	150 16V			
* C054	V8878900	Electrolytic Cap. (chip)	330 6.3V			
* -056	V8878900	Electrolytic Cap. (chip)	330 6.3V			
C057	UR838470	Electrolytic Cap.	470.00 16.0V			01
C058	UR838470	Electrolytic Cap.	470.00 16.0V			01
C059	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C060	UR739220	Electrolytic Cap.	2200 16.0V			01
CN001	VB389800	Connector Base Post	PH 2P TE			01
CN002	LB932080	Base Post Connector	VH 8P TE			01
CN003	LB932060	Base Post Connector	VH 6P TE			01
CN004	LB932100	Base Post Connector	VH 10P TE			02
CN005	VB390500	Connector Base Post	PH 9P TE			03
CN006	VB389900	Connector Base Post	PH 3P TE			01
CN007	VJ861600	Wire Trap	52147 16P TE			01
CN008	VJ861600	Wire Trap	52147 16P TE			01
CN009	VK025800	Wire Trap	52147 14P TE			01
CN010	VF667700	Wire Trap	52147 17P TE			01
CN011	VB390400	Connector Base Post	PH 8P TE			01
CN012	LB932090	Base Post Connector	VH 9P TE			01
CN013	LB932100	Base Post Connector	VH 10P TE			02
CN014	VK025500	Wire Trap	52147 11P TE			01
CN015	VK025600	Wire Trap	52147 12P TE			01
CN016	LB932080	Base Post Connector	VH 8P TE			01
CN017	VB390200	Connector Base Post	PH 6P TE			01
CN018	VK024800	Wire Trap	52147 4P TE			01
CN019	VF728200	Wire Trap	52147 10P TE			01
-021	VF728200	Wire Trap	52147 10P TE			01
CN022	VJ861600	Wire Trap	52147 16P TE			01
CN023	VK025600	Wire Trap	52147 12P TE			01
CN024	VK025500	Wire Trap	52147 11P TE			01
D001	V2376600	Diode	RB500V-40			01
D002	VU445900	Diode	RB050L-40			02
D003	VP974300	Diode	D3S6M-4002			03
D004	VT332900	Diode	1SS355 TE-17			01
DA001	VV556300	Diode Array	DAN217 0.3A X2			01
EM001	FZ007070	LC Filter	MTX222MBTBM			01
EM002	FZ007070	LC Filter	MTX222MBTBM			01
EM003	FZ006970	LC Filter	MTY223NBTBM			02
-005	FZ006970	LC Filter	MTY223NBTBM			02
EM006	FZ007070	LC Filter	MTX222MBTBM			01
EM007	FZ006970	LC Filter	MTY223NBTBM			02
-016	FZ006970	LC Filter	MTY223NBTBM			02
EM018	FZ007070	LC Filter	MTX222MBTBM			01
EM023	FZ006970	LC Filter	MTY223NBTBM			02
EM024	FZ007070	LC Filter	MTX222MBTBM			01
EM025	FZ006970	LC Filter	MTY223NBTBM			02
-029	FZ006970	LC Filter	MTY223NBTBM			02
EM030	FZ007070	LC Filter	MTX222MBTBM			01
EM031	FZ007070	LC Filter	MTX222MBTBM			01
EM032	FZ006970	LC Filter	MTY223NBTBM			02
-036	FZ006970	LC Filter	MTY223NBTBM			02
EM037	FZ007070	LC Filter	MTX222MBTBM			01
EM038	FZ006970	LC Filter	MTY223NBTBM			02
-041	FZ006970	LC Filter	MTY223NBTBM			02
EM042	FZ007070	LC Filter	MTX222MBTBM			01
EM043	FZ007070	LC Filter	MTX222MBTBM			01
EM044	FZ006970	LC Filter	MTY223NBTBM			02
-048	FZ006970	LC Filter	MTY223NBTBM			02
EM053	FZ006970	LC Filter	MTY223NBTBM			02
-055	FZ006970	LC Filter	MTY223NBTBM			02
EM060	FZ006970	LC Filter	MTY223NBTBM			02
-065	FZ006970	LC Filter	MTY223NBTBM			02
* FT001	V8952100	FET	TPC8009-H			
* -003	V8952100	FET	TPC8009-H			
IC001	XT627A00	IC	PST594C-MMP4P	SYSTEM RESET		03
* IC003	X2005A00	IC	LTC1735CS	DC-DC CONVERTER		
J001	--	Jumper Wire	0.55	(VA07890)		

*: New Parts

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REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
K001	VG864300	Heat Sink	DPS(15)-30		02
* L001	V7759000	Coil	CDEP134-H-4R8 4.8u		
R004	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R005	RD256100	Carbon Resistor (chip)	1.0K 0.1 J		01
R008	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R009	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R010	RD256470	Carbon Resistor (chip)	4.7K 0.1 J		01
R011	RD256470	Carbon Resistor (chip)	4.7K 0.1 J		01
R012	VI825600	Carbon Resistor (chip)	56.0 1/0 J		01
R013	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R016	RD256240	Carbon Resistor (chip)	2.4K 0.1 J		01
R017	RD256100	Carbon Resistor (chip)	1.0K 0.1 J		01
R018	RD256220	Carbon Resistor (chip)	2.2K 0.1 J		01
R019	RD257220	Carbon Resistor (chip)	22.0K 0.1 J		01
R020	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R021	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R023	RD257330	Carbon Resistor (chip)	33.0K 0.1 J		01
R025	RD254100	Carbon Resistor (chip)	10.0 0.1 J		01
R026	RD254100	Carbon Resistor (chip)	10.0 0.1 J		01
R027	RD253470	Carbon Resistor (chip)	4.7 0.1 J		01
R028	RD253470	Carbon Resistor (chip)	4.7 0.1 J		01
R029	RD250000	Carbon Resistor (chip)	0.0 0.0 J		01
* R030	V8106400	Carbon Resistor (chip)	6.8		
R031	RD257160	Carbon Resistor (chip)	16.0K 0.1 J		01
R032	RD256510	Carbon Resistor (chip)	5.1K 0.1 J		01
R033	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
R034	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R035	VC740900	Metal Oxide Film Resistor	2.2 1W J		01
R036	VC740900	Metal Oxide Film Resistor	2.2 1W J		01
R037	RD256100	Carbon Resistor (chip)	1.0K 0.1 J		01
R050	RD250000	Carbon Resistor (chip)	0.0 0.0 J		01
TH001	VT816300	Thermistor	ERT-D2FGL332S 3.3K		01
* TH002	VV455700	Protector Switch	RXE020 0.20A 72V		
TH003	VV456100	Protector Switch	RXE040 0.40A 72V		03
TH004	VV456100	Protector Switch	RXE040 0.40A 72V		03
* TH005	VV457800	Protector Switch	RUE135 1.35A 30V		
* TH006	VV457800	Protector Switch	RUE135 1.35A 30V		
TH007	VV458000	Protector Switch	RUE250 2.50A 30V		03
TH008	VV456100	Protector Switch	RXE040 0.40A 72V		03
TH009	VV456100	Protector Switch	RXE040 0.40A 72V		03
TH014	VV458200	Protector Switch	RUE400 4.00A 30V		03
TH015	VV458200	Protector Switch	RUE400 4.00A 30V		03
TH016	VV457900	Protector Switch	RUE160 1.60A 30V		02
TH017	VV457900	Protector Switch	RUE160 1.60A 30V		02
* TH018	VV455700	Protector Switch	RXE020 0.20A 72V		
* TH019	VV456700	Protector Switch	RXE135 1.35A 72V		
* TH020	VV456700	Protector Switch	RXE135 1.35A 72V		
TH021	VV456100	Protector Switch	RXE040 0.40A 72V		03
TH022	VU847300	Protector Switch	RUE185 1.85A 30V		03
TH023	VV458200	Protector Switch	RUE400 4.00A 30V		03
TH024	VV458000	Protector Switch	RUE250 2.50A 30V		03
* TH025	VV455700	Protector Switch	RXE020 0.20A 72V		
* TH026	VV455700	Protector Switch	RXE020 0.20A 72V		
TH027	VU847300	Protector Switch	RUE185 1.85A 30V		03
TH028	VU847300	Protector Switch	RUE185 1.85A 30V		03
TH029	VV456100	Protector Switch	RXE040 0.40A 72V		03
TH030	VU847300	Protector Switch	RUE185 1.85A 30V		03
* TH031	V7394300	Protector Switch	MINISMDM110/16		
* TH032	V7394300	Protector Switch	MINISMDM110/16		
TH033	VV456100	Protector Switch	RXE040 0.40A 72V		03
TH034	VV458100	Protector Switch	RUE300 3.00A 30V		03
* TH039	VV455700	Protector Switch	RXE020 0.20A 72V		
TH040	VU847300	Protector Switch	RUE185 1.85A 30V		03
* TH041	VV455700	Protector Switch	RXE020 0.20A 72V		
* TH043	VV455700	Protector Switch	RXE020 0.20A 72V		
TH060	VU847300	Protector Switch	RUE185 1.85A 30V		03
-065	VU847300	Protector Switch	RUE185 1.85A 30V		03
TR002	VJ927200	Transistor	2SA1162 Q,Y		01
TR003	VG013400	Transistor	2SD1664 82-390		01
TR005	VV925400	Transistor	2SC2SC2712 GR		01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
TR006	VJ927200	Transistor	2SA1162 O,Y			01
TR007	VJ927200	Transistor	2SA1162 O,Y			01
TR008	VV925400	Transistor	2SC2SC2712 GR			01
-010	VV925400	Transistor	2SC2SC2712 GR			01
TR011	IB059630	Transistor	2SB596 O,Y			04
* ZD001	VU173500	Zener Diode	UDZ 24B TE-17 24V			
ZD002	VU171800	Zener Diode	UDZ 4.7BTE-17 4.7V			01
* V7765500		Circuit Board	DM2K CPU	(X0383B0)		
BT101	VN103600	Battery Holder	CR2032			03
C101	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-117	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C118	UB012470	Monolithic Ceramic Cap.	B 470P 50V K			01
C119	UB446100	Ceramic Capacitor-F (chip)	F 1.0 16V Z			01
C120	UB446100	Ceramic Capacitor-F (chip)	F 1.0 16V Z			01
C121	UB012470	Monolithic Ceramic Cap.	B 470P 50V K			01
C122	UF018100	Electrolytic Cap. (chip)	100 6.3V			01
C123	UB051220	Monolithic Ceramic Cap.	SL 22P 50V J			01
C124	UB051220	Monolithic Ceramic Cap.	SL 22P 50V J			01
C125	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-146	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C147	UF018100	Electrolytic Cap. (chip)	100 6.3V			01
C148	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C154	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-163	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C165	UF028100	Electrolytic Cap. (chip)	100 10V			01
C166	UF018100	Electrolytic Cap. (chip)	100 6.3V			01
C167	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-172	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C173	UB051180	Monolithic Ceramic Cap.	SL 18P 50V J			01
C174	UB051150	Monolithic Ceramic Cap.	SL 15P 50V J			01
C175	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-183	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C186	UF037100	Electrolytic Cap. (chip)	10 16V			01
C187	UF037100	Electrolytic Cap. (chip)	10 16V			01
C188	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C189	UF037100	Electrolytic Cap. (chip)	10 16V			01
C190	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C191	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
CN101	VF728300	Wire Trap	52147 6P TE			01
* CN104	V4510100	Pin Header	HIF6A 80P TE			
* CN105	V4510100	Pin Header	HIF6A 80P TE			
CN106	VK025600	Wire Trap	52147 12P TE			01
CN107	VK025100	Wire Trap	52147 7P TE			01
CN108	VK025800	Wire Trap	52147 14P TE			01
CN109	VB390100	Connector Base Post	PH 5P TE			01
CN110	VB390000	Connector Base Post	PH 4P TE			01
D101	V2376600	Diode	RB500V-40			01
-103	V2376600	Diode	RB500V-40			01
EM101	VQ761400	EMI Filter (chip)	NFM3DCC101U1H3L			01
-103	VQ761400	EMI Filter (chip)	NFM3DCC101U1H3L			01
EM104	FZ006970	LC Filter	MTY223NBTBM			02
-107	FZ006970	LC Filter	MTY223NBTBM			02
IC101	XY065A00	IC	SH7709A	CPU		14
* IC102	X2086A00	IC	HM62V8512CLTT-7	SRAM 4M		
* -105	X2086A00	IC	HM62V8512CLTT-7			
* IC102	X2882A00	IC	M5M5V408BTP-85H			
* -105	X2882A00	IC	M5M5V408BTP-85H			
* IC102	X2883A00	IC	K6T4008VIC-VB70			
* -105	X2883A00	IC	K6T4008VIC-VB70			
* IC102	X2884A00	IC	CY62148VLL-70ZI			
* -105	X2884A00	IC	CY62148VLL-70ZI			
* IC106	X2661A00	IC	MBM29LV160BE90TN	FLASH ROM 16M		
* IC107	X2662A00	IC	MBM29LV160BE90TN	FLASH ROM 16M		
IC108	X0303A00	IC	HY57V641620HGT-HQ	SDRAM 64M		15
IC108	XZ414B00	IC	W986416DH-7			
* IC108	X2760A00	IC	K4S641632F-TC75			
IC109	X0303A00	IC	HY57V641620HGT-HQ	SDRAM 64M		15
IC109	XZ414B00	IC	W986416DH-7			
* IC109	X2760A00	IC	K4S641632F-TC75			

*: New Parts

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NOTE: Two or more makers' mixture presupposes that it is improper into the same circuit board. (IC102-105, 108, 109)

REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
IC112	XV242A00	IC	TC74VHCT245AF		03
IC114	XY937A00	IC	CY2305		07
IC115	XT487A00	IC	TC74VHC245F		03
-117	XT487A00	IC	TC74VHC245F		03
IC118	XT800A00	IC	TC74VHC244F		03
IC119	XT487A00	IC	TC74VHC245F		03
-121	XT487A00	IC	TC74VHC245F		03
IC122	XS775A00	IC	TC7SH04FU		01
IC123	XR680A00	IC	TC7SH08FU		01
IC125	XW324A00	IC	TC74VHC139F(EL)		01
IC126	XT487A00	IC	TC74VHC245F		03
IC127	XU229A00	IC	TC74LVX4245FS		04
* IC128	XO333A00	IC	RTC-62423		03
IC129	XQ595A00	IC	S1D13305F00B100		08
IC130	XT138A00	IC	UPD431000AGW-70LL		07
IC131	XV242A00	IC	TC74VHCT245AF		03
IC132	XM332A00	IC	TC74VHC04F(EL)		01
IC133	XT229A00	IC	TC74VHC00F		01
IC134	XT487A00	IC	TC74VHC245F		03
IC135	XT487A00	IC	TC74VHC245F		03
IC136	XY537A00	IC	TC74VHC32F(EL)		01
IC137	XR680A00	IC	TC7SH08FU		01
* IC138	X2163A00	IC	M62023FP		03
IC139	XR532A00	IC	NJM2904V(Te1)		02
* IC140	X2157A00	IC	UPC2918T-E1		01
IC141	XY537A00	IC	TC74VHC32F(EL)		01
IC142	XP226A00	IC	IC-PST591DMT		03
L101	GE300610	Ferrite Bead	BL02RN1-R62T4		01
-103	GE300610	Ferrite Bead	BL02RN1-R62T4		01
* L104	V8143400	Chip Inductance	BLM21R121SKPT		01
-121	V8143400	Chip Inductance	BLM21R121SKPT		01
R101	RD255220	Carbon Resistor (chip)	220.0 0.1 J		01
R105	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
-112	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R114	RD250000	Carbon Resistor (chip)	0.0 0.0 J		01
R116	RD250000	Carbon Resistor (chip)	0.0 0.0 J		01
R117	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R120	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
-128	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R129	RD256100	Carbon Resistor (chip)	1.0K 0.1 J		01
R130	RD259470	Carbon Resistor (chip)	4.7M 0.1 J		01
R131	RD256300	Carbon Resistor (chip)	3.0K 0.1 J		01
R132	RD256200	Carbon Resistor (chip)	2.0K 0.1 J		01
R133	RD259100	Carbon Resistor (chip)	1.0M 0.1 J		01
RA101	RE047100	Resistor Array	10KX4		01
-145	RE047100	Resistor Array	10KX4		01
RA146	RE047220	Resistor Array	22KX4		01
RA147	RE047220	Resistor Array	22KX4		01
RA148	RE044680	Resistor Array	68X4		01
RA149	RE044680	Resistor Array	68X4		01
TR101	V3033500	Digital Transistor	DTC143XKA TP		01
X101	VS486900	Quartz Crystal Unit	8.0MHz SMD-49		03
X103	VR870700	Quartz Crystal Unit	10MHz SMD-49		04
* V6468600	Circuit Board	DM2K LRG (CRCOM)	(V628790)(XZ033A0)		
* V6468700	Circuit Board	DM2K SML (CRCOM)	(V628790)(XZ033A0)		
* V7539700	Cannon Angle			4	
157	--	Jumper Wire	0.55	(VA07890)	
C001	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T		04
-004	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T		04
C101	VG277000	Ceramic Capacitor-SL	33P 50V J		01
C102	VG277000	Ceramic Capacitor-SL	33P 50V J		01
C103	UU168100	Electrolytic Cap.	100.00 50.0V		01
C104	UU168100	Electrolytic Cap.	100.00 50.0V		01
C105	VT439600	Monolithic Ceramic Cap.	0.100 50V Z		01
C106	VT439600	Monolithic Ceramic Cap.	0.100 50V Z		01
C107	UU168100	Electrolytic Cap.	100.00 50.0V		01
C108	UU168100	Electrolytic Cap.	100.00 50.0V		01
C201	VG277000	Ceramic Capacitor-SL	33P 50V J		01
C202	VG277000	Ceramic Capacitor-SL	33P 50V J		01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C203	UU168100	Electrolytic Cap.	100.00 50.0V			01
C204	UU168100	Electrolytic Cap.	100.00 50.0V			01
C205	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C206	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C207	UU168100	Electrolytic Cap.	100.00 50.0V			01
C208	UU168100	Electrolytic Cap.	100.00 50.0V			01
C301	VG277000	Ceramic Capacitor-SL	33P 50V J			01
C302	VG277000	Ceramic Capacitor-SL	33P 50V J			01
C303	UU168100	Electrolytic Cap.	100.00 50.0V			01
C304	UU168100	Electrolytic Cap.	100.00 50.0V			01
C305	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C306	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C307	UU147470	Electrolytic Cap.	47.00 25.0V			01
C308	UU147470	Electrolytic Cap.	47.00 25.0V			01
C309	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C310	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C311	VF466900	Ceramic Capacitor-B	470P 50V K			01
C312	VF466900	Ceramic Capacitor-B	470P 50V K			01
C313	UU168100	Electrolytic Cap.	100.00 50.0V			01
C314	UU168100	Electrolytic Cap.	100.00 50.0V			01
C401	VG277000	Ceramic Capacitor-SL	33P 50V J			01
C402	VG277000	Ceramic Capacitor-SL	33P 50V J			01
C403	UU168100	Electrolytic Cap.	100.00 50.0V			01
C404	UU168100	Electrolytic Cap.	100.00 50.0V			01
C405	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C406	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C407	UU147470	Electrolytic Cap.	47.00 25.0V			01
C408	UU147470	Electrolytic Cap.	47.00 25.0V			01
C411	VF466900	Ceramic Capacitor-B	470P 50V K			01
C412	VF466900	Ceramic Capacitor-B	470P 50V K			01
C413	UU168100	Electrolytic Cap.	100.00 50.0V			01
C414	UU168100	Electrolytic Cap.	100.00 50.0V			01
CN001	VB994900	Base Post Connector	MQ 9P TE			01
CN002	VB994900	Base Post Connector	MQ 9P TE			01
EM001	FZ006970	LC Filter	MTY223NBTBM			02
-004	FZ006970	LC Filter	MTY223NBTBM			02
EM101	FZ006920	LC Filter	MTB271KBTBM			01
EM102	FZ006920	LC Filter	MTB271KBTBM			01
EM201	FZ006920	LC Filter	MTB271KBTBM			01
EM202	FZ006920	LC Filter	MTB271KBTBM			01
EM301	FZ006920	LC Filter	MTB271KBTBM			01
EM302	FZ006920	LC Filter	MTB271KBTBM			01
EM401	FZ006920	LC Filter	MTB271KBTBM			01
EM402	FZ006920	LC Filter	MTB271KBTBM			01
IC101	XP844A00	IC	NJM4556AL	OP AMP		02
IC201	XP844A00	IC	NJM4556AL	OP AMP		02
IC301	XP844A00	IC	NJM4556AL	OP AMP		02
IC302	XM356A00	IC	NJM2068L-D	OP AMP		02
IC401	XP844A00	IC	NJM4556AL	OP AMP		02
JK101	VS762900	Cannon Connector	NC3MAHR	CONTROL ROOM LARGE L		03
JK201	VS762900	Cannon Connector	NC3MAHR	MONITOR OUT LARGE R		03
JK301	VS762900	Cannon Connector	NC3MAHR	CONTROL ROOM SMALL L		03
JK401	VS762900	Cannon Connector	NC3MAHR	MONITOR OUT SMALL R		03
R101	HF454390	Carbon Resistor	39.0 1/4 J			01
R102	HF458100	Carbon Resistor	100.0K 1/4 J			01
R103	HB027100	Metal Film Resistor	10.0K 1/4 F			
R104	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R105	HB027110	Metal Film Resistor	11.0K 1/4 F			
R106	HB027100	Metal Film Resistor	10.0K 1/4 F			
R107	HB027200	Metal Film Resistor	20.0K 1/4 F			
R108	HB027200	Metal Film Resistor	20.0K 1/4 F			
R109	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R110	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R111	HF454750	Carbon Resistor	75.0 1/4 J			01
R112	HF454750	Carbon Resistor	75.0 1/4 J			01
R113	HF458100	Carbon Resistor	100.0K 1/4 J			01
R114	HF458100	Carbon Resistor	100.0K 1/4 J			01
R115	HF457100	Carbon Resistor	10.0K 1/4 J			01
R116	HF457100	Carbon Resistor	10.0K 1/4 J			01
R201	HF454390	Carbon Resistor	39.0 1/4 J			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R202	HF458100	Carbon Resistor	100.0K 1/4 J			01
R203	HB027100	Metal Film Resistor	10.0K 1/4 F			
R204	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R205	HB027110	Metal Film Resistor	11.0K 1/4 F			
R206	HB027100	Metal Film Resistor	10.0K 1/4 F			
R207	HB027200	Metal Film Resistor	20.0K 1/4 F			
R208	HB027200	Metal Film Resistor	20.0K 1/4 F			
R209	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R210	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R211	HF454750	Carbon Resistor	75.0 1/4 J			01
R212	HF454750	Carbon Resistor	75.0 1/4 J			01
R213	HF458100	Carbon Resistor	100.0K 1/4 J			01
R214	HF458100	Carbon Resistor	100.0K 1/4 J			01
R215	HF457100	Carbon Resistor	10.0K 1/4 J			01
R216	HF457100	Carbon Resistor	10.0K 1/4 J			01
R303	HB027100	Metal Film Resistor	10.0K 1/4 F			
R304	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R305	HB027110	Metal Film Resistor	11.0K 1/4 F			
R306	HB027100	Metal Film Resistor	10.0K 1/4 F			
R307	HB027200	Metal Film Resistor	20.0K 1/4 F			
R308	HB027200	Metal Film Resistor	20.0K 1/4 F			
R309	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R310	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R311	HF454750	Carbon Resistor	75.0 1/4 J			01
R312	HF454750	Carbon Resistor	75.0 1/4 J			01
R313	HF458100	Carbon Resistor	100.0K 1/4 J			01
R314	HF458100	Carbon Resistor	100.0K 1/4 J			01
R315	HF457100	Carbon Resistor	10.0K 1/4 J			01
R316	HF457100	Carbon Resistor	10.0K 1/4 J			01
R317	HF458100	Carbon Resistor	100.0K 1/4 J			01
* R318	HB025470	Metal Film Resistor	470.0 1/4 F			
* R319	HB025470	Metal Film Resistor	470.0 1/4 F			
R403	HB027100	Metal Film Resistor	10.0K 1/4 F			
R404	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R405	HB027110	Metal Film Resistor	11.0K 1/4 F			
R406	HB027100	Metal Film Resistor	10.0K 1/4 F			
R407	HB027200	Metal Film Resistor	20.0K 1/4 F			
R408	HB027200	Metal Film Resistor	20.0K 1/4 F			
R409	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R410	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R411	HF454750	Carbon Resistor	75.0 1/4 J			01
R412	HF454750	Carbon Resistor	75.0 1/4 J			01
R413	HF458100	Carbon Resistor	100.0K 1/4 J			01
R414	HF458100	Carbon Resistor	100.0K 1/4 J			01
R415	HF457100	Carbon Resistor	10.0K 1/4 J			01
R416	HF457100	Carbon Resistor	10.0K 1/4 J			01
R417	HF458100	Carbon Resistor	100.0K 1/4 J			01
* R418	HB025470	Metal Film Resistor	470.0 1/4 F			
* R419	HB025470	Metal Film Resistor	470.0 1/4 F			
TR101	VK432900	Transistor	2SD1915(F) S,T			01
TR102	VK432900	Transistor	2SD1915(F) S,T			01
TR201	VK432900	Transistor	2SD1915(F) S,T			01
TR202	VK432900	Transistor	2SD1915(F) S,T			01
TR301	VK432900	Transistor	2SD1915(F) S,T			01
TR302	VK432900	Transistor	2SD1915(F) S,T			01
TR401	VK432900	Transistor	2SD1915(F) S,T			01
TR402	VK432900	Transistor	2SD1915(F) S,T			01
VR301	VQ901400	Rotary Variable Resistor	A20Kx2 RK14K12B	SMALL TRIM		03
*	V6285500	Circuit Board	DM2K DA1	(XZ021B0)		
	V5274300	Jack Holder		(V907440)	2	01
	--	Earth Film-DA1				
C001	UI557470	Electrolytic Cap.	47.00 35.0V			01
C002	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C003	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
-006	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C101	UU168100	Electrolytic Cap.	100.00 50.0V			01
C102	UU168100	Electrolytic Cap.	100.00 50.0V			01
C103	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C104	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C105	UA353470	Mylar Capacitor	4700P 50V J			01
C106	UA353160	Mylar Capacitor	1600P 50V J			
C107	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
-110	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C111	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C112	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C113	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C114	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C201	UU168100	Electrolytic Cap.	100.00 50.0V			01
C202	UU168100	Electrolytic Cap.	100.00 50.0V			01
C203	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C204	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C205	UA353470	Mylar Capacitor	4700P 50V J			01
C206	UA353160	Mylar Capacitor	1600P 50V J			
C207	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
-210	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C211	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C212	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C213	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C214	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C301	UU168100	Electrolytic Cap.	100.00 50.0V			01
C302	UU168100	Electrolytic Cap.	100.00 50.0V			01
C303	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C304	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C305	UA353470	Mylar Capacitor	4700P 50V J			01
C306	UA353160	Mylar Capacitor	1600P 50V J			
C307	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
-310	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C311	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C312	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C313	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C314	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C401	UU168100	Electrolytic Cap.	100.00 50.0V			01
C402	UU168100	Electrolytic Cap.	100.00 50.0V			01
C403	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C404	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C405	UA353470	Mylar Capacitor	4700P 50V J			01
C406	UA353160	Mylar Capacitor	1600P 50V J			
C407	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
-410	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C411	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C412	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C413	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C414	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C501	UU168100	Electrolytic Cap.	100.00 50.0V			01
C502	UU168100	Electrolytic Cap.	100.00 50.0V			01
C503	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C504	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C505	UA353470	Mylar Capacitor	4700P 50V J			01
C506	UA353160	Mylar Capacitor	1600P 50V J			
C507	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
-510	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C511	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C512	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C513	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C514	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C601	UU168100	Electrolytic Cap.	100.00 50.0V			01
C602	UU168100	Electrolytic Cap.	100.00 50.0V			01
C603	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C604	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C605	UA353470	Mylar Capacitor	4700P 50V J			01
C606	UA353160	Mylar Capacitor	1600P 50V J			
C607	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
-610	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C611	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C612	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C613	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C614	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C701	UU168100	Electrolytic Cap.	100.00 50.0V			01
C702	UU168100	Electrolytic Cap.	100.00 50.0V			01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C703	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C704	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C705	UA353470	Mylar Capacitor	4700P 50V J			01
C706	UA353160	Mylar Capacitor	1600P 50V J			
C707	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
-710	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C711	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C712	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C713	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C714	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C801	UU168100	Electrolytic Cap.	100.00 50.0V			01
C802	UU168100	Electrolytic Cap.	100.00 50.0V			01
C803	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C804	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C805	UA353470	Mylar Capacitor	4700P 50V J			01
C806	UA353160	Mylar Capacitor	1600P 50V J			
C807	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
-810	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C811	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C812	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C813	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C814	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C900	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-902	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C903	UU167100	Electrolytic Cap.	10.00 50.0V			01
C904	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-906	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C907	UU167100	Electrolytic Cap.	10.00 50.0V			01
C908	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C909	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C910	UU167100	Electrolytic Cap.	10.00 50.0V			01
-912	UU167100	Electrolytic Cap.	10.00 50.0V			01
C913	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-915	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C916	UU167100	Electrolytic Cap.	10.00 50.0V			01
C917	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C918	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C919	UU167100	Electrolytic Cap.	10.00 50.0V			01
-921	UU167100	Electrolytic Cap.	10.00 50.0V			01
C922	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-924	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C925	UU167100	Electrolytic Cap.	10.00 50.0V			01
C926	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C927	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C928	UU167100	Electrolytic Cap.	10.00 50.0V			01
-930	UU167100	Electrolytic Cap.	10.00 50.0V			01
C931	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-933	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C934	UU167100	Electrolytic Cap.	10.00 50.0V			01
C935	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C936	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C937	UU167100	Electrolytic Cap.	10.00 50.0V			01
C938	UU167100	Electrolytic Cap.	10.00 50.0V			01
C939	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
-942	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
CN001	VK027300	Wire Trap	52151 14P SE			01
CN901	VU421600	Wire Trap	52151 16P SE			01
D001	VF195600	Diode	11ES4 TA1			01
-004	VF195600	Diode	11ES4 TA1			01
EM001	FZ007070	LC Filter	MTX222MBTBM			01
EM002	FZ006970	LC Filter	MTY223NBTBM			02
-005	FZ006970	LC Filter	MTY223NBTBM			02
EM101	FZ006920	LC Filter	MTB271KBTBM			01
EM102	FZ006920	LC Filter	MTB271KBTBM			01
EM201	FZ006920	LC Filter	MTB271KBTBM			01
EM202	FZ006920	LC Filter	MTB271KBTBM			01
EM301	FZ006920	LC Filter	MTB271KBTBM			01
EM302	FZ006920	LC Filter	MTB271KBTBM			01
EM401	FZ006920	LC Filter	MTB271KBTBM			01
EM402	FZ006920	LC Filter	MTB271KBTBM			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
EM501	FZ006920	LC Filter	MTB271KBTBM			01
EM502	FZ006920	LC Filter	MTB271KBTBM			01
EM601	FZ006920	LC Filter	MTB271KBTBM			01
EM602	FZ006920	LC Filter	MTB271KBTBM			01
EM701	FZ006920	LC Filter	MTB271KBTBM			01
EM702	FZ006920	LC Filter	MTB271KBTBM			01
EM801	FZ006920	LC Filter	MTB271KBTBM			01
EM802	FZ006920	LC Filter	MTB271KBTBM			01
IC101	XF291A00	IC	UPC4570G2	OP AMP		03
IC102	XP844A00	IC	NJM4556AL	OP AMP		02
IC201	XF291A00	IC	UPC4570G2	OP AMP		03
IC202	XP844A00	IC	NJM4556AL	OP AMP		02
IC301	XF291A00	IC	UPC4570G2	OP AMP		03
IC302	XP844A00	IC	NJM4556AL	OP AMP		02
IC401	XF291A00	IC	UPC4570G2	OP AMP		03
IC402	XP844A00	IC	NJM4556AL	OP AMP		02
IC501	XF291A00	IC	UPC4570G2	OP AMP		03
IC502	XP844A00	IC	NJM4556AL	OP AMP		02
IC601	XF291A00	IC	UPC4570G2	OP AMP		03
IC602	XP844A00	IC	NJM4556AL	OP AMP		02
IC701	XF291A00	IC	UPC4570G2	OP AMP		03
IC702	XP844A00	IC	NJM4556AL	OP AMP		02
IC801	XF291A00	IC	UPC4570G2	OP AMP		03
IC802	XP844A00	IC	NJM4556AL	OP AMP		02
IC900	XM182A00	IC	TC7S04F	INVERTER		01
IC901	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC902	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC903	XW029A00	IC	AK4393-VF-E2	DAC		07
-906	XW029A00	IC	AK4393-VF-E2	DAC		07
IC907	XJ598A00	IC	NJM78L05UA	REGULATOR +5V		02
-910	XJ598A00	IC	NJM78L05UA	REGULATOR +5V		02
JK101	VS056300	Phone Jack	HLJ7001-01	OMNI OUT 1		01
JK201	VS056300	Phone Jack	HLJ7001-01	OMNI OUT 2		01
JK301	VS056300	Phone Jack	HLJ7001-01	OMNI OUT 3		01
JK401	VS056300	Phone Jack	HLJ7001-01	OMNI OUT 4		01
JK501	VS056300	Phone Jack	HLJ7001-01	OMNI OUT 5		01
JK601	VS056300	Phone Jack	HLJ7001-01	OMNI OUT 6		01
JK701	VS056300	Phone Jack	HLJ7001-01	OMNI OUT 7		01
JK801	VS056300	Phone Jack	HLJ7001-01	OMNI OUT 8		01
L901	VS740100	Chip Inductance	BLM21B751S 2125			03
-910	VS740100	Chip Inductance	BLM21B751S 2125			03
R001	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R002	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R003	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R004	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R005	HF456220	Carbon Resistor	2.2K 1/4 J			01
R006	HF456220	Carbon Resistor	2.2K 1/4 J			01
R007	HF457100	Carbon Resistor	10.0K 1/4 J			01
R008	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R009	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R010	HF456470	Carbon Resistor	4.7K 1/4 J			01
R011	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
* R101	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R102	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R104	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R105	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R107	HB026100	Metal Film Resistor	1.0K 1/4 F			
* R108	HB026100	Metal Film Resistor	1.0K 1/4 F			
R109	HF454390	Carbon Resistor	39.0 1/4 J			01
R110	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R111	HB027100	Metal Film Resistor	10.0K 1/4 F			
R112	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R113	V9008100	Metal Film Resistor	11.5K 1/4 D			
R114	HB027100	Metal Film Resistor	10.0K 1/4 F			
R115	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R116	HB027180	Metal Film Resistor	18.0K 1/4 F			01
* R117	HB027160	Metal Film Resistor	16.0K 1/4 F			
* R118	HB027160	Metal Film Resistor	16.0K 1/4 F			
R119	HF454750	Carbon Resistor	75.0 1/4 J			01
R120	HF454750	Carbon Resistor	75.0 1/4 J			01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R121	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R122	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R123	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R124	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R125	HB026390	Metal Film Resistor	3.9K 1/4 F			
R126	HB026390	Metal Film Resistor	3.9K 1/4 F			
* R201	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R202	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R204	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R205	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R207	HB026100	Metal Film Resistor	1.0K 1/4 F			
* R208	HB026100	Metal Film Resistor	1.0K 1/4 F			
R209	HF454390	Carbon Resistor	39.0 1/4 J			01
R210	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R211	HB027100	Metal Film Resistor	10.0K 1/4 F			
R212	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R213	V9008100	Metal Film Resistor	11.5K 1/4 D			
* R214	HB027100	Metal Film Resistor	10.0K 1/4 F			
R215	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R216	HB027180	Metal Film Resistor	18.0K 1/4 F			01
* R217	HB027160	Metal Film Resistor	16.0K 1/4 F			
* R218	HB027160	Metal Film Resistor	16.0K 1/4 F			
R219	HF454750	Carbon Resistor	75.0 1/4 J			01
R220	HF454750	Carbon Resistor	75.0 1/4 J			01
R221	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R222	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R223	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R224	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R225	HB026390	Metal Film Resistor	3.9K 1/4 F			
R226	HB026390	Metal Film Resistor	3.9K 1/4 F			
* R301	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R302	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R304	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R305	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R307	HB026100	Metal Film Resistor	1.0K 1/4 F			
* R308	HB026100	Metal Film Resistor	1.0K 1/4 F			
R309	HF454390	Carbon Resistor	39.0 1/4 J			01
R310	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R311	HB027100	Metal Film Resistor	10.0K 1/4 F			
R312	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R313	V9008100	Metal Film Resistor	11.5K 1/4 D			
R314	HB027100	Metal Film Resistor	10.0K 1/4 F			
R315	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R316	HB027180	Metal Film Resistor	18.0K 1/4 F			01
* R317	HB027160	Metal Film Resistor	16.0K 1/4 F			
* R318	HB027160	Metal Film Resistor	16.0K 1/4 F			
R319	HF454750	Carbon Resistor	75.0 1/4 J			01
R320	HF454750	Carbon Resistor	75.0 1/4 J			01
R321	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R322	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R323	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R324	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R325	HB026390	Metal Film Resistor	3.9K 1/4 F			
R326	HB026390	Metal Film Resistor	3.9K 1/4 F			
* R401	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R402	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R404	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R405	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R407	HB026100	Metal Film Resistor	1.0K 1/4 F			
* R408	HB026100	Metal Film Resistor	1.0K 1/4 F			
R409	HF454390	Carbon Resistor	39.0 1/4 J			01
R410	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R411	HB027100	Metal Film Resistor	10.0K 1/4 F			
R412	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R413	V9008100	Metal Film Resistor	11.5K 1/4 D			
R414	HB027100	Metal Film Resistor	10.0K 1/4 F			
R415	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R416	HB027180	Metal Film Resistor	18.0K 1/4 F			01
* R417	HB027160	Metal Film Resistor	16.0K 1/4 F			
* R418	HB027160	Metal Film Resistor	16.0K 1/4 F			

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R419	HF454750	Carbon Resistor	75.0 1/4 J			01
R420	HF454750	Carbon Resistor	75.0 1/4 J			01
R421	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R422	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R423	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R424	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R425	HB026390	Metal Film Resistor	3.9K 1/4 F			
R426	HB026390	Metal Film Resistor	3.9K 1/4 F			
* R501	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R502	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R504	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R505	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R507	HB026100	Metal Film Resistor	1.0K 1/4 F			
* R508	HB026100	Metal Film Resistor	1.0K 1/4 F			
R509	HF454390	Carbon Resistor	39.0 1/4 J			01
R510	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R511	HB027100	Metal Film Resistor	10.0K 1/4 F			
R512	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R513	V9008100	Metal Film Resistor	11.5K 1/4 D			
R514	HB027100	Metal Film Resistor	10.0K 1/4 F			
R515	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R516	HB027180	Metal Film Resistor	18.0K 1/4 F			01
* R517	HB027160	Metal Film Resistor	16.0K 1/4 F			
* R518	HB027160	Metal Film Resistor	16.0K 1/4 F			
R519	HF454750	Carbon Resistor	75.0 1/4 J			01
R520	HF454750	Carbon Resistor	75.0 1/4 J			01
R521	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R522	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R523	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R524	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R525	HB026390	Metal Film Resistor	3.9K 1/4 F			
R526	HB026390	Metal Film Resistor	3.9K 1/4 F			
* R601	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R602	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R604	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R605	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R607	HB026100	Metal Film Resistor	1.0K 1/4 F			
* R608	HB026100	Metal Film Resistor	1.0K 1/4 F			
R609	HF454390	Carbon Resistor	39.0 1/4 J			01
R610	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R611	HB027100	Metal Film Resistor	10.0K 1/4 F			
R612	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R613	V9008100	Metal Film Resistor	11.5K 1/4 D			
R614	HB027100	Metal Film Resistor	10.0K 1/4 F			
R615	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R616	HB027180	Metal Film Resistor	18.0K 1/4 F			01
* R617	HB027160	Metal Film Resistor	16.0K 1/4 F			
* R618	HB027160	Metal Film Resistor	16.0K 1/4 F			
R619	HF454750	Carbon Resistor	75.0 1/4 J			01
R620	HF454750	Carbon Resistor	75.0 1/4 J			01
R621	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R622	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R623	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R624	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R625	HB026390	Metal Film Resistor	3.9K 1/4 F			
R626	HB026390	Metal Film Resistor	3.9K 1/4 F			
* R701	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R702	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R704	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R705	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R707	HB026100	Metal Film Resistor	1.0K 1/4 F			
* R708	HB026100	Metal Film Resistor	1.0K 1/4 F			
R709	HF454390	Carbon Resistor	39.0 1/4 J			01
R710	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R711	HB027100	Metal Film Resistor	10.0K 1/4 F			
R712	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R713	V9008100	Metal Film Resistor	11.5K 1/4 D			
R714	HB027100	Metal Film Resistor	10.0K 1/4 F			
R715	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R716	HB027180	Metal Film Resistor	18.0K 1/4 F			01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* R717	HB027160	Metal Film Resistor	16.0K 1/4 F			
* R718	HB027160	Metal Film Resistor	16.0K 1/4 F			
R719	HF454750	Carbon Resistor	75.0 1/4 J			01
R720	HF454750	Carbon Resistor	75.0 1/4 J			01
R721	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R722	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R723	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R724	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R725	HB026390	Metal Film Resistor	3.9K 1/4 F			
R726	HB026390	Metal Film Resistor	3.9K 1/4 F			
* R801	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R802	HB027150	Metal Film Resistor	15.0K 1/4 F			
* R804	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R805	HB026680	Metal Film Resistor	6.8K 1/4 F			
* R807	HB026100	Metal Film Resistor	1.0K 1/4 F			
* R808	HB026100	Metal Film Resistor	1.0K 1/4 F			
R809	HF454390	Carbon Resistor	39.0 1/4 J			01
R810	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R811	HB027100	Metal Film Resistor	10.0K 1/4 F			
R812	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R813	V9008100	Metal Film Resistor	11.5K 1/4 D			
R814	HB027100	Metal Film Resistor	10.0K 1/4 F			
R815	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R816	HB027180	Metal Film Resistor	18.0K 1/4 F			01
* R817	HB027160	Metal Film Resistor	16.0K 1/4 F			
* R818	HB027160	Metal Film Resistor	16.0K 1/4 F			
R819	HF454750	Carbon Resistor	75.0 1/4 J			01
R820	HF454750	Carbon Resistor	75.0 1/4 J			01
R821	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R822	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R823	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R824	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R825	HB026390	Metal Film Resistor	3.9K 1/4 F			
R826	HB026390	Metal Film Resistor	3.9K 1/4 F			
R901	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-910	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R911	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R912	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
SW101	VN316300	Slide Switch	SSSS2-22-01	+4dB <-> +18dB		02
SW201	VN316300	Slide Switch	SSSS2-22-01	+4dB <-> +18dB		02
SW301	VN316300	Slide Switch	SSSS2-22-01	+4dB <-> +18dB		02
SW401	VN316300	Slide Switch	SSSS2-22-01	+4dB <-> +18dB		02
SW501	VN316300	Slide Switch	SSSS2-22-01	+4dB <-> +18dB		02
SW601	VN316300	Slide Switch	SSSS2-22-01	+4dB <-> +18dB		02
SW701	VN316300	Slide Switch	SSSS2-22-01	+4dB <-> +18dB		02
SW801	VN316300	Slide Switch	SSSS2-22-01	+4dB <-> +18dB		02
TR001	VJ927100	Transistor	2SC2712 Y			01
TR002	VJ927100	Transistor	2SC2712 Y			01
TR003	VQ395600	Transistor	2SA1052 B,C			01
TR004	VG013300	Transistor	2SB1132 82-390			01
TR101	VK432900	Transistor	2SD1915(F) S,T			01
TR102	VK432900	Transistor	2SD1915(F) S,T			01
TR201	VK432900	Transistor	2SD1915(F) S,T			01
TR202	VK432900	Transistor	2SD1915(F) S,T			01
TR301	VK432900	Transistor	2SD1915(F) S,T			01
TR302	VK432900	Transistor	2SD1915(F) S,T			01
TR401	VK432900	Transistor	2SD1915(F) S,T			01
TR402	VK432900	Transistor	2SD1915(F) S,T			01
TR501	VK432900	Transistor	2SD1915(F) S,T			01
TR502	VK432900	Transistor	2SD1915(F) S,T			01
TR601	VK432900	Transistor	2SD1915(F) S,T			01
TR602	VK432900	Transistor	2SD1915(F) S,T			01
TR701	VK432900	Transistor	2SD1915(F) S,T			01
TR702	VK432900	Transistor	2SD1915(F) S,T			01
TR801	VK432900	Transistor	2SD1915(F) S,T			01
TR802	VK432900	Transistor	2SD1915(F) S,T			01
* C001	V6285600	Circuit Board	DM2K DA2	(XZ022B0)		
C001	UR868100	Electrolytic Cap.	100.00 50.0V			01
C002	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C003	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C004	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C005	V5829300	Electrolytic Cap. (chip)	100 16V 16SG100M+T			04
C006	V5829300	Electrolytic Cap. (chip)	100 16V 16SG100M+T			04
C007	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C008	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C103	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C104	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C105	UA353470	Mylar Capacitor	4700P 50V J			01
C106	UA353160	Mylar Capacitor	1600P 50V J			01
C107	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C108	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C109	UU147470	Electrolytic Cap.	47.00 25.0V			01
C110	UU147470	Electrolytic Cap.	47.00 25.0V			01
C111	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C112	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C113	UU147470	Electrolytic Cap.	47.00 25.0V			01
-115	UU147470	Electrolytic Cap.	47.00 25.0V			01
C116	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C117	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C151	UU147470	Electrolytic Cap.	47.00 25.0V			01
C152	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C153	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C154	UA353220	Mylar Capacitor	2200P 50V J			01
C155	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C156	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C157	UU147470	Electrolytic Cap.	47.00 25.0V			01
C203	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C204	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C205	UA353470	Mylar Capacitor	4700P 50V J			01
C206	UA353160	Mylar Capacitor	1600P 50V J			01
C207	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C208	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C209	UU147470	Electrolytic Cap.	47.00 25.0V			01
C210	UU147470	Electrolytic Cap.	47.00 25.0V			01
C211	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C212	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C213	UU147470	Electrolytic Cap.	47.00 25.0V			01
-215	UU147470	Electrolytic Cap.	47.00 25.0V			01
C251	UU147470	Electrolytic Cap.	47.00 25.0V			01
C252	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C253	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C254	UA353220	Mylar Capacitor	2200P 50V J			01
C255	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C256	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C303	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C304	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C305	UA353470	Mylar Capacitor	4700P 50V J			01
C306	UA353160	Mylar Capacitor	1600P 50V J			01
C307	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C308	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C309	UN847470	Electrolytic Cap.-BP	47.00 25.0V			01
C351	UU147470	Electrolytic Cap.	47.00 25.0V			01
C352	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C353	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C354	UA353220	Mylar Capacitor	2200P 50V J			01
C355	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C356	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C357	UU147470	Electrolytic Cap.	47.00 25.0V			01
C403	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C404	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C405	UA353470	Mylar Capacitor	4700P 50V J			01
C406	UA353160	Mylar Capacitor	1600P 50V J			01
C407	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C408	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C409	UN847470	Electrolytic Cap.-BP	47.00 25.0V			01
C451	UU147470	Electrolytic Cap.	47.00 25.0V			01
C452	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C453	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C454	UA353220	Mylar Capacitor	2200P 50V J			01

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C455	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C456	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C503	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C504	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C505	UA353470	Mylar Capacitor	4700P 50V J			01
C506	UA353160	Mylar Capacitor	1600P 50V J			01
C507	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C508	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C509	UU147470	Electrolytic Cap.	47.00 25.0V			01
C551	UU147470	Electrolytic Cap.	47.00 25.0V			01
C552	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C553	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
C554	UA353220	Mylar Capacitor	2200P 50V J			01
C555	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C556	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C557	UU147470	Electrolytic Cap.	47.00 25.0V			01
C603	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C604	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C605	UA353470	Mylar Capacitor	4700P 50V J			01
C606	UA353160	Mylar Capacitor	1600P 50V J			01
C607	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C608	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C609	UU147470	Electrolytic Cap.	47.00 25.0V			01
C703	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C704	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C705	UA353470	Mylar Capacitor	4700P 50V J			01
C706	UA353160	Mylar Capacitor	1600P 50V J			01
C707	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C708	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C709	UU147470	Electrolytic Cap.	47.00 25.0V			01
C803	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C804	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C805	UA353470	Mylar Capacitor	4700P 50V J			01
C806	UA353160	Mylar Capacitor	1600P 50V J			01
C807	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C808	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C809	UU147470	Electrolytic Cap.	47.00 25.0V			01
C901	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C902	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C903	UU167100	Electrolytic Cap.	10.00 50.0V			01
C904	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-906	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C907	UU167100	Electrolytic Cap.	10.00 50.0V			01
C908	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C909	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C910	UU167100	Electrolytic Cap.	10.00 50.0V			01
-912	UU167100	Electrolytic Cap.	10.00 50.0V			01
C913	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-915	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C916	UU167100	Electrolytic Cap.	10.00 50.0V			01
C917	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C918	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C919	UU167100	Electrolytic Cap.	10.00 50.0V			01
-921	UU167100	Electrolytic Cap.	10.00 50.0V			01
C922	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-924	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C925	UU167100	Electrolytic Cap.	10.00 50.0V			01
C926	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C927	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C928	UU167100	Electrolytic Cap.	10.00 50.0V			01
-930	UU167100	Electrolytic Cap.	10.00 50.0V			01
C931	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-933	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C934	UU167100	Electrolytic Cap.	10.00 50.0V			01
C935	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C936	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C937	UU167100	Electrolytic Cap.	10.00 50.0V			01
C938	UU167100	Electrolytic Cap.	10.00 50.0V			01
C939	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
-942	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C943	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C950	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C951	UU167100	Electrolytic Cap.	10.00 50.0V			01
C952	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C953	UU167100	Electrolytic Cap.	10.00 50.0V			01
C954	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C955	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C956	UU167100	Electrolytic Cap.	10.00 50.0V			01
C957	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C958	UU147470	Electrolytic Cap.	47.00 25.0V			01
C959	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-961	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C962	UU167100	Electrolytic Cap.	10.00 50.0V			01
C963	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C964	UU167100	Electrolytic Cap.	10.00 50.0V			01
C965	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C966	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C967	UU167100	Electrolytic Cap.	10.00 50.0V			01
C968	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C969	UU147470	Electrolytic Cap.	47.00 25.0V			01
C970	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-972	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C973	UU167100	Electrolytic Cap.	10.00 50.0V			01
C974	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C975	UU167100	Electrolytic Cap.	10.00 50.0V			01
C976	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C977	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C978	UU167100	Electrolytic Cap.	10.00 50.0V			01
C979	US135220	Ceramic Capacitor-F (chip)	0.2200 16V Z			01
C980	UU147470	Electrolytic Cap.	47.00 25.0V			01
C981	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C982	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
CN001	VI879500	Cable Holder	51048 17P TE			01
CN100	VB390200	Connector Base Post	PH 6P TE			01
CN101	VI378700	Connector Socket	MQ 9P SE			01
CN151	VI378700	Connector Socket	MQ 9P SE			01
CN201	VI378700	Connector Socket	MQ 9P SE			01
CN301	VI378700	Connector Socket	MQ 9P SE			01
CN501	VI379200	Connector Socket	MQ 12P SE			02
CN701	VI379200	Connector Socket	MQ 12P SE			02
CN901	VK025800	Wire Trap	52147 14P TE			01
CN902	VK025500	Wire Trap	52147 11P TE			01
D001	VF195600	Diode	11ES4 TA1			01
-004	VF195600	Diode	11ES4 TA1			01
D101	VS201100	Diode	D1F60			01
D201	VS201100	Diode	D1F60			01
EM001	FZ007070	LC Filter	MTX222MBTBM			01
-005	FZ006970	LC Filter	MTY223NBTBM			02
IC101	XF291A00	IC	UPC4570G2	OP AMP		03
IC102	XF291A00	IC	UPC4570G2	OP AMP		03
IC151	XF291A00	IC	UPC4570G2	OP AMP		03
IC201	XF291A00	IC	UPC4570G2	OP AMP		03
IC251	XF291A00	IC	UPC4570G2	OP AMP		03
IC301	XF291A00	IC	UPC4570G2	OP AMP		03
IC351	XF291A00	IC	UPC4570G2	OP AMP		03
IC401	XF291A00	IC	UPC4570G2	OP AMP		03
IC451	XF291A00	IC	UPC4570G2	OP AMP		03
IC501	XF291A00	IC	UPC4570G2	OP AMP		03
IC551	XF291A00	IC	UPC4570G2	OP AMP		03
IC601	XF291A00	IC	UPC4570G2	OP AMP		03
IC701	XF291A00	IC	UPC4570G2	OP AMP		03
IC801	XF291A00	IC	UPC4570G2	OP AMP		03
IC901	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC902	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC903	XW029A00	IC	AK4393-VF-E2	DAC		07
-906	XW029A00	IC	AK4393-VF-E2	DAC		07
IC907	XJ598A00	IC	NJM78L05UA	REGULATOR +5V		02
-910	XJ598A00	IC	NJM78L05UA	REGULATOR +5V		02
IC911	XM182A00	IC	TC7S04F	INVERTER		01
* IC951	XZ298A00	IC	AK5393-VS-E2	ADC		

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REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
* -953	XZ298A00	IC	AK5393-VS-E2		
L901	VS740100	Chip Inductance	BLM21B751S 2125		03
-915	VS740100	Chip Inductance	BLM21B751S 2125		03
R001	RD256100	Carbon Resistor (chip)	1.0K 0.1 J		01
R002	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R003	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R004	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
R005	HF456220	Carbon Resistor	2.2K 1/4 J		01
R006	HF456220	Carbon Resistor	2.2K 1/4 J		01
R007	HF457100	Carbon Resistor	10.0K 1/4 J		01
R008	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
R009	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R010	HF456470	Carbon Resistor	4.7K 1/4 J		01
R011	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
R101	HB026330	Metal Film Resistor	3.3K 1/4 F		
R102	HB026330	Metal Film Resistor	3.3K 1/4 F		
* R104	HB026750	Metal Film Resistor	7.5K 1/4 F		
* R105	HB026750	Metal Film Resistor	7.5K 1/4 F		
* R107	HB026100	Metal Film Resistor	1.0K 1/4 F		
* R108	HB026100	Metal Film Resistor	1.0K 1/4 F		
R109	HF454390	Carbon Resistor	39.0 1/4 J		01
R110	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
R111	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
* R112	HB025470	Metal Film Resistor	470.0 1/4 F		
* R113	HB025470	Metal Film Resistor	470.0 1/4 F		
R115	HF454390	Carbon Resistor	39.0 1/4 J		01
R116	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
-120	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
R121	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R151	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
R152	HB027100	Metal Film Resistor	10.0K 1/4 F		
R153	HB026220	Metal Film Resistor	2.2K 1/4 F		01
-155	HB026220	Metal Film Resistor	2.2K 1/4 F		01
R156	HF454470	Carbon Resistor	47.0 1/4 J		01
R157	HF454470	Carbon Resistor	47.0 1/4 J		01
* R158	HB026270	Metal Film Resistor	2.7K 1/4 F		
* R159	HB027110	Metal Film Resistor	11.0K 1/4 F		
* R160	HB026270	Metal Film Resistor	2.7K 1/4 F		
R201	HB026330	Metal Film Resistor	3.3K 1/4 F		
R202	HB026330	Metal Film Resistor	3.3K 1/4 F		
* R204	HB026750	Metal Film Resistor	7.5K 1/4 F		
* R205	HB026750	Metal Film Resistor	7.5K 1/4 F		
* R207	HB026100	Metal Film Resistor	1.0K 1/4 F		
* R208	HB026100	Metal Film Resistor	1.0K 1/4 F		
R209	HF454390	Carbon Resistor	39.0 1/4 J		01
R210	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
R211	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
* R212	HB025470	Metal Film Resistor	470.0 1/4 F		
* R213	HB025470	Metal Film Resistor	470.0 1/4 F		
R215	HF454390	Carbon Resistor	39.0 1/4 J		01
R216	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
-220	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
R221	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R251	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
R252	HB027100	Metal Film Resistor	10.0K 1/4 F		
R253	HB026220	Metal Film Resistor	2.2K 1/4 F		01
-255	HB026220	Metal Film Resistor	2.2K 1/4 F		01
R256	HF454470	Carbon Resistor	47.0 1/4 J		01
R257	HF454470	Carbon Resistor	47.0 1/4 J		01
R301	HB026330	Metal Film Resistor	3.3K 1/4 F		
R302	HB026330	Metal Film Resistor	3.3K 1/4 F		
* R304	HB026750	Metal Film Resistor	7.5K 1/4 F		
* R305	HB026750	Metal Film Resistor	7.5K 1/4 F		
* R307	HB026100	Metal Film Resistor	1.0K 1/4 F		
* R308	HB026100	Metal Film Resistor	1.0K 1/4 F		
R309	HF454390	Carbon Resistor	39.0 1/4 J		01
R310	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
R311	HF454100	Carbon Resistor	10.0 1/4 J		01
R351	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
R352	HB027100	Metal Film Resistor	10.0K 1/4 F		

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R353	HB026220	Metal Film Resistor	2.2K 1/4 F			01
-355	HB026220	Metal Film Resistor	2.2K 1/4 F			01
R356	HF454470	Carbon Resistor	47.0 1/4 J			01
R357	HF454470	Carbon Resistor	47.0 1/4 J			01
* R358	HB026270	Metal Film Resistor	2.7K 1/4 F			
* R359	HB027110	Metal Film Resistor	11.0K 1/4 F			
* R360	HB026270	Metal Film Resistor	2.7K 1/4 F			
R401	HB026330	Metal Film Resistor	3.3K 1/4 F			
R402	HB026330	Metal Film Resistor	3.3K 1/4 F			
* R404	HB026750	Metal Film Resistor	7.5K 1/4 F			
* R405	HB026750	Metal Film Resistor	7.5K 1/4 F			
* R407	HB026100	Metal Film Resistor	1.0K 1/4 F			
* R408	HB026100	Metal Film Resistor	1.0K 1/4 F			
R409	HF454390	Carbon Resistor	39.0 1/4 J			01
R410	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R411	HF454100	Carbon Resistor	10.0 1/4 J			01
R451	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R452	HB027100	Metal Film Resistor	10.0K 1/4 F			
R453	HB026220	Metal Film Resistor	2.2K 1/4 F			01
-455	HB026220	Metal Film Resistor	2.2K 1/4 F			01
R456	HF454470	Carbon Resistor	47.0 1/4 J			01
R457	HF454470	Carbon Resistor	47.0 1/4 J			01
R501	HB026330	Metal Film Resistor	3.3K 1/4 F			
R502	HB026330	Metal Film Resistor	3.3K 1/4 F			
* R504	HB026750	Metal Film Resistor	7.5K 1/4 F			
* R505	HB026750	Metal Film Resistor	7.5K 1/4 F			
* R507	HB026100	Metal Film Resistor	1.0K 1/4 F			
* R508	HB026100	Metal Film Resistor	1.0K 1/4 F			
R509	HF454390	Carbon Resistor	39.0 1/4 J			01
R510	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R551	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R552	HB027100	Metal Film Resistor	10.0K 1/4 F			
R553	HB026220	Metal Film Resistor	2.2K 1/4 F			01
-555	HB026220	Metal Film Resistor	2.2K 1/4 F			01
R556	HF454470	Carbon Resistor	47.0 1/4 J			01
R557	HF454470	Carbon Resistor	47.0 1/4 J			01
* R558	HB026270	Metal Film Resistor	2.7K 1/4 F			
* R559	HB027110	Metal Film Resistor	11.0K 1/4 F			
* R560	HB026270	Metal Film Resistor	2.7K 1/4 F			
R601	HB026330	Metal Film Resistor	3.3K 1/4 F			
R602	HB026330	Metal Film Resistor	3.3K 1/4 F			
* R604	HB026750	Metal Film Resistor	7.5K 1/4 F			
* R605	HB026750	Metal Film Resistor	7.5K 1/4 F			
* R607	HB026100	Metal Film Resistor	1.0K 1/4 F			
* R608	HB026100	Metal Film Resistor	1.0K 1/4 F			
R609	HF454390	Carbon Resistor	39.0 1/4 J			01
R610	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R701	HB026330	Metal Film Resistor	3.3K 1/4 F			
R702	HB026330	Metal Film Resistor	3.3K 1/4 F			
* R704	HB026750	Metal Film Resistor	7.5K 1/4 F			
* R705	HB026750	Metal Film Resistor	7.5K 1/4 F			
* R707	HB026100	Metal Film Resistor	1.0K 1/4 F			
* R708	HB026100	Metal Film Resistor	1.0K 1/4 F			
R709	HF454390	Carbon Resistor	39.0 1/4 J			01
R710	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R801	HB026330	Metal Film Resistor	3.3K 1/4 F			
R802	HB026330	Metal Film Resistor	3.3K 1/4 F			
* R804	HB026750	Metal Film Resistor	7.5K 1/4 F			
* R805	HB026750	Metal Film Resistor	7.5K 1/4 F			
* R807	HB026100	Metal Film Resistor	1.0K 1/4 F			
* R808	HB026100	Metal Film Resistor	1.0K 1/4 F			
R809	HF454390	Carbon Resistor	39.0 1/4 J			01
R810	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R901	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-912	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R913	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R914	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R915	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R950	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-967	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R968	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
-973	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
RY101	VU685600	Relay	DC NA- 5 W-K			06
RY201	VU685600	Relay	DC NA- 5 W-K			06
TR001	VJ927100	Transistor	2SC2712 Y			01
TR002	VJ927100	Transistor	2SC2712 Y			01
TR003	VQ395600	Transistor	2SA1052 B,C			01
TR004	VG013300	Transistor	2SB1132 82-390			01
TR101	VV556400	Transistor	2SC2412K Q,R,S			01
TR201	VV556400	Transistor	2SC2412K Q,R,S			01
* W001	V8392800	Jumper Wire	FVP=2.0C26SB17-520			
* C001	V6285200	Circuit Board	DM2K DSP	(XZ018B0)		
C002	UF017470	Electrolytic Cap. (chip)	47 6.3V			01
C002	UF017470	Electrolytic Cap. (chip)	47 6.3V			01
C003	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-043	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-055	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C056	UF017470	Electrolytic Cap. (chip)	47 6.3V			01
C057	UB445330	Monolithic Ceramic Cap.	F 0.330 16V Z			01
C058	VJ903700	Monolithic Ceramic Cap.	CH 560P 50V J			01
C059	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C060	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C061	UB445330	Monolithic Ceramic Cap.	F 0.330 16V Z			01
C062	UB014220	Monolithic Ceramic Cap.	B 0.022 50V K			01
C063	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-066	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C067	UB014220	Monolithic Ceramic Cap.	B 0.022 50V K			01
C068	UF128470	Electrolytic Cap. (chip)	470 10V UUR1A4			02
C069	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C070	UB014220	Monolithic Ceramic Cap.	B 0.022 50V K			01
C071	UB014220	Monolithic Ceramic Cap.	B 0.022 50V K			01
C072	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C073	V6200900	Capacitor	1.0000 16V M			01
C074	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C075	UF128470	Electrolytic Cap. (chip)	470 10V UUR1A4			02
C076	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C077	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C078	UF128470	Electrolytic Cap. (chip)	470 10V UUR1A4			02
C079	UB014220	Monolithic Ceramic Cap.	B 0.022 50V K			01
C080	UB014220	Monolithic Ceramic Cap.	B 0.022 50V K			01
C081	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C082	V6200900	Capacitor	1.0000 16V M			01
C083	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C084	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C085	UF128470	Electrolytic Cap. (chip)	470 10V UUR1A4			02
C086	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-091	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C092	VR327300	Mylar Capacitor (chip)	0.0820 16V J			01
C093	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-096	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C097	UF118330	Electrolytic Cap. (chip)	330 6.3V UUR0J3			01
C098	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C099	VJ903700	Monolithic Ceramic Cap.	CH 560P 50V J			01
C100	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-102	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C103	UF038100	Electrolytic Cap. (chip)	100 16V			01
C104	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C105	UF038100	Electrolytic Cap. (chip)	100 16V			01
C106	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-145	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C146	UF038100	Electrolytic Cap. (chip)	100 16V			01
C147	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C148	UF038100	Electrolytic Cap. (chip)	100 16V			01
C149	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-187	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C188	UF038100	Electrolytic Cap. (chip)	100 16V			01
C189	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C190	UF038100	Electrolytic Cap. (chip)	100 16V			01
C191	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
-229	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C230	UF038100	Electrolytic Cap. (chip)	100 16V			01
C231	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C232	UF038100	Electrolytic Cap. (chip)	100 16V			01
-271	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C272	UF038100	Electrolytic Cap. (chip)	100 16V			01
C273	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C274	UF038100	Electrolytic Cap. (chip)	100 16V			01
C275	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-314	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C315	UF038100	Electrolytic Cap. (chip)	100 16V			01
C316	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-391	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C398	UB445330	Monolithic Ceramic Cap.	F 0.330 16V Z			01
C399	UB445330	Monolithic Ceramic Cap.	F 0.330 16V Z			01
C401	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-561	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C571	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C572	VR328100	Mylar Capacitor (chip)	.00022 50V J			01
C573	VP864400	Mylar Capacitor (chip)	0.0047 16V J			01
C574	VR328100	Mylar Capacitor (chip)	.00022 50V J			01
C575	VP864400	Mylar Capacitor (chip)	0.0047 16V J			01
C576	VR328100	Mylar Capacitor (chip)	.00022 50V J			01
C577	VP864400	Mylar Capacitor (chip)	0.0047 16V J			01
C578	VR328100	Mylar Capacitor (chip)	.00022 50V J			01
C579	VP864400	Mylar Capacitor (chip)	0.0047 16V J			01
C580	VR328100	Mylar Capacitor (chip)	.00022 50V J			01
C581	VP864400	Mylar Capacitor (chip)	0.0047 16V J			01
C582	VR328100	Mylar Capacitor (chip)	.00022 50V J			01
C583	VP864400	Mylar Capacitor (chip)	0.0047 16V J			01
C584	VR328100	Mylar Capacitor (chip)	.00022 50V J			01
C585	VP864400	Mylar Capacitor (chip)	0.0047 16V J			01
C586	VR328100	Mylar Capacitor (chip)	.00022 50V J			01
C587	VP864400	Mylar Capacitor (chip)	0.0047 16V J			01
C588	VR328100	Mylar Capacitor (chip)	.00022 50V J			01
C589	VP864400	Mylar Capacitor (chip)	0.0047 16V J			01
C590	VR328100	Mylar Capacitor (chip)	.00022 50V J			01
C591	VP864400	Mylar Capacitor (chip)	0.0047 16V J			01
C592	VR328100	Mylar Capacitor (chip)	.00022 50V J			01
C593	VP864400	Mylar Capacitor (chip)	0.0047 16V J			01
C594	VR328100	Mylar Capacitor (chip)	.00022 50V J			01
C595	VP864400	Mylar Capacitor (chip)	0.0047 16V J			01
C596	VR328100	Mylar Capacitor (chip)	.00022 50V J			01
C597	VP864400	Mylar Capacitor (chip)	0.0047 16V J			01
C598	VR328100	Mylar Capacitor (chip)	.00022 50V J			01
C599	VP864400	Mylar Capacitor (chip)	0.0047 16V J			01
C600	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-706	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C801	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-806	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C851	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-855	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C856	FG652100	Ceramic Capacitor	100P 50V			01
C901	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-909	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C951	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C952	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C954	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C955	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C961	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-963	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C964	UF119100	Electrolytic Cap. (chip)	1000 6.3V UUR0J1			02
C965	UF119100	Electrolytic Cap. (chip)	1000 6.3V UUR0J1			02
C966	UB051680	Monolithic Ceramic Cap.	SL 68P 50V J			01
C967	UB012330	Monolithic Ceramic Cap.	B 330P 50V K			01
C968	UB052470	Monolithic Ceramic Cap.	SL 470P 50V J			01
C969	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C970	UB051470	Monolithic Ceramic Cap.	SL 47P 50V J			01
C971	UB013100	Monolithic Ceramic Cap.	B 1000P 50V K			01
C972	UF046470	Electrolytic Cap. (chip)	4.7 25V			01

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C973	UB245220	Monolithic Ceramic Cap.	F 0.220 25V Z			01
* C974	V8878500	Electrolytic Cap. (chip)	150 16V			
* C975	V8878500	Electrolytic Cap. (chip)	150 16V			
* C976	V8878900	Electrolytic Cap. (chip)	330 6.3V			
* -978	V8878900	Electrolytic Cap. (chip)	330 6.3V			
C979	UB051680	Monolithic Ceramic Cap.	SL 68P 50V J			01
C980	UB012330	Monolithic Ceramic Cap.	B 330P 50V K			01
C981	UB052470	Monolithic Ceramic Cap.	SL 470P 50V J			01
C982	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C983	UB051470	Monolithic Ceramic Cap.	SL 47P 50V J			01
C984	UB013100	Monolithic Ceramic Cap.	B 1000P 50V K			01
C985	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C986	UB245220	Monolithic Ceramic Cap.	F 0.220 25V Z			01
* C987	V8878500	Electrolytic Cap. (chip)	150 16V			
* C988	V8878500	Electrolytic Cap. (chip)	150 16V			
* C989	V8878900	Electrolytic Cap. (chip)	330 6.3V			
* -991	V8878900	Electrolytic Cap. (chip)	330 6.3V			
C992	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
* CN104	V4510100	Pin Header	HIF6A 80P TE			
* CN105	V4510100	Pin Header	HIF6A 80P TE			
CN801	VP327200	Connector, FFC	52045 30P TE			01
-803	VP327200	Connector, FFC	52045 30P TE			01
CN804	VP127700	Connector, FFC	52045 24P TE			01
-806	VP127700	Connector, FFC	52045 24P TE			01
CN807	VO022100	Connector, FFC	52045 40P TE			02
CN901	VQ048500	Connector, FFC	52045 36P TE			02
CN902	VO022100	Connector, FFC	52045 40P TE			02
CN903	VO022100	Connector, FFC	52045 40P TE			02
* CN904	VQ048100	Connector, FFC	52045 32P TE			
CN905	VF667600	Wire Trap	52147 15P TE			01
CN951	VF728200	Wire Trap	52147 10P TE			01
CN952	VK025600	Wire Trap	52147 12P TE			01
CN953	VF728200	Wire Trap	52147 10P TE			01
CN954	VK025600	Wire Trap	52147 12P TE			01
CN955	VJ861600	Wire Trap	52147 16P TE			01
CN956	VK025800	Wire Trap	52147 14P TE			01
CN957	VK025500	Wire Trap	52147 11P TE			01
CN961	LB932090	Base Post Connector	VH 9P TE			01
CN962	LB932100	Base Post Connector	VH 10P TE			02
D051	VT332900	Diode	1SS355 TE-17			01
D052	VT332900	Diode	1SS355 TE-17			01
D961	V2376600	Diode	RB500V-40			01
-964	VU445900	Diode	RB050L-40			02
D965	VT332900	Diode	1SS355 TE-17			01
D966	VT332900	Diode	1SS355 TE-17			01
EM051	FZ006970	LC Filter	MTY223NBTBM			02
EM052	FZ006970	LC Filter	MTY223NBTBM			02
EM101	FZ006970	LC Filter	MTY223NBTBM			02
EM401	FZ006970	LC Filter	MTY223NBTBM			02
EM961	FZ006970	LC Filter	MTY223NBTBM			02
-964	FZ006970	LC Filter	MTY223NBTBM			02
* FT961	V8952100	FET	TPC8009-H			
* -966	V8952100	FET	TPC8009-H			
IC001	XY961A00	IC	74VHC541SJX	BUFFER		03
IC002	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
-004	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC005	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-009	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC010	XU229A00	IC	TC74LVX4245FS	TRANSCEIVER		04
IC011	XU229A00	IC	TC74LVX4245FS	TRANSCEIVER		04
IC012	XS775A00	IC	TC7SH04FU	INVERTER		01
IC013	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-020	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC021	XU229A00	IC	TC74LVX4245FS	TRANSCEIVER		04
IC022	XU229A00	IC	TC74LVX4245FS	TRANSCEIVER		04
IC023	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
-027	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC028	XU229A00	IC	TC74LVX4245FS	TRANSCEIVER		04
-031	XU229A00	IC	TC74LVX4245FS	TRANSCEIVER		04
IC032	XY537A00	IC	TC74VHC32F(EL)	OR		01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
IC051	XW633A00	IC	TC7SH32FU(TE85L)		01
IC052	XT487A00	IC	TC74VHC245F		03
-054	XT487A00	IC	TC74VHC245F		03
IC055	XV242A00	IC	TC74VHCT245AF		03
* IC056	XZ334A00	IC	XCS40-3PQ240C		
IC057	XW876A00	IC	TC74VHC14F-EL		01
IC058	XT229A00	IC	TC74VHC00F		01
IC059	XW422A00	IC	M51953AFP		01
IC060	IS405300	IC	HD74LV4053AFPEL		02
IC061	XV064A00	IC	TLC2932IPWR		06
IC062	IS405300	IC	HD74LV4053AFPEL		02
IC063	XV064A00	IC	TLC2932IPWR		06
IC064	XG948E00	IC	YM3436DK		11
* IC065	X2855A00	IC	XC17S40-PD8		
IC066	XS775A00	IC	TC7SH04FU		01
IC067	XT487A00	IC	TC74VHC245F		03
-069	XT487A00	IC	TC74VHC245F		03
IC070	XY961A00	IC	74VHC541SJX		03
-072	XY961A00	IC	74VHC541SJX		03
IC073	XW876A00	IC	TC74VHC14F-EL		01
IC074	XW422A00	IC	M51953AFP		01
IC101	XZ693A00	IC	YSS919-H		15
-114	XZ693A00	IC	YSS919-H		15
IC115	XW874A00	IC	HY57V161610DTC-8		08
-125	XW874A00	IC	HY57V161610DTC-8		08
* IC115	X2360A00	IC	K4S161622D-TC80		
-125	X2360A00	IC	K4S161622D-TC80		
* IC115	X2590A00	IC	W981616BH-7		
-125	X2590A00	IC	W981616BH-7		
IC126	XY961A00	IC	74VHC541SJX		03
IC127	XT487A00	IC	TC74VHC245F		03
IC128	XW875A00	IC	TC74VHC74F-EL		01
IC401	XV988A00	IC	YSS910-S		10
-408	XV988A00	IC	YSS910-S		10
IC409	XV077B00	IC	MSM514260E-60JS		
-424	XV077B00	IC	MSM514260E-60JS		
IC425	XT487A00	IC	TC74VHC245F		03
-428	XT487A00	IC	TC74VHC245F		03
IC429	XT812A00	IC	TC74VHC11F(EL)		01
-432	XT812A00	IC	TC74VHC11F(EL)		01
* IC601	X2162A00	IC	MBCG61594-128		
-605	X2162A00	IC	MBCG61594-128		
IC606	XT487A00	IC	TC74VHC245F		03
-608	XT487A00	IC	TC74VHC245F		03
IC609	XT475A00	IC	TC74VHC157F(EL)		02
-614	XT475A00	IC	TC74VHC157F(EL)		02
IC615	XT487A00	IC	TC74VHC245F		03
-620	XT487A00	IC	TC74VHC245F		03
* IC651	X2162A00	IC	MBCG61594-128		
-655	X2162A00	IC	MBCG61594-128		
IC656	XT475A00	IC	TC74VHC157F(EL)		02
-661	XT475A00	IC	TC74VHC157F(EL)		02
* IC701	IS404010	IC	SN74LV4040ANSR		
IC702	XM332A00	IC	TC74VHC04F(EL)		01
IC703	XU240A00	IC	YM6604C-S		11
IC704	XT229A00	IC	TC74VHC00F		01
IC705	XW313A00	IC	TC74VHC125F		02
IC801	XV242A00	IC	TC74VHCT245AF		03
IC802	XT487A00	IC	TC74VHC245F		03
IC803	XY961A00	IC	74VHC541SJX		03
IC804	XV242A00	IC	TC74VHCT245AF		03
IC805	XT487A00	IC	TC74VHC245F		03
IC806	XY961A00	IC	74VHC541SJX		03
IC851	XV242A00	IC	TC74VHCT245AF		03
IC852	XT487A00	IC	TC74VHC245F		03
IC853	XY961A00	IC	74VHC541SJX		03
-855	XY961A00	IC	74VHC541SJX		03
IC901	XT487A00	IC	TC74VHC245F		03
IC902	XV242A00	IC	TC74VHCT245AF		03
IC903	XY961A00	IC	74VHC541SJX		03

* : New Parts

RANK: Japan only

NOTE: Two or more makers' mixture presupposes that it is improper into the same circuit board. (IC115-125)

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
IC904	XT800A00	IC	TC74VHC244F	BUFFER		03
IC905	XT800A00	IC	TC74VHC244F	BUFFER		03
IC906	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC907	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC908	XY961A00	IC	74VHC541SJX	BUFFER		03
IC909	XY961A00	IC	74VHC541SJX	BUFFER		03
IC951	XY961A00	IC	74VHC541SJX	BUFFER		03
IC952	XY961A00	IC	74VHC541SJX	BUFFER		03
IC953	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC955	XY537A00	IC	TC74VHC32F(EL)	OR		01
* IC961	X2005A00	IC	LTC1735CS	DC-DC CONVERTER		
* IC962	X2005A00	IC	LTC1735CS	DC-DC CONVERTER		
* L039	V8143400	Chip Inductance	BLM21R121SKPT			
L040	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
* L041	V8143400	Chip Inductance	BLM21R121SKPT			
L042	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
* L043	V8143400	Chip Inductance	BLM21R121SKPT			
L044	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
* L045	V8143400	Chip Inductance	BLM21R121SKPT			
L046	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
* L047	V8143400	Chip Inductance	BLM21R121SKPT			
L048	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
* L049	V8143400	Chip Inductance	BLM21R121SKPT			
L050	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
L051	GE300610	Ferrite Bead	BL02RN1-R62T4			01
-055	GE300610	Ferrite Bead	BL02RN1-R62T4			01
* L056	V8143400	Chip Inductance	BLM21R121SKPT			
* L057	V8143400	Chip Inductance	BLM21R121SKPT			
L058	GE300610	Ferrite Bead	BL02RN1-R62T4			01
* L059	V8143400	Chip Inductance	BLM21R121SKPT			
* -099	V8143400	Chip Inductance	BLM21R121SKPT			
* L101	V8143400	Chip Inductance	BLM21R121SKPT			
* L401	V8143400	Chip Inductance	BLM21R121SKPT			
* L801	V8143400	Chip Inductance	BLM21R121SKPT			
* -805	V8143400	Chip Inductance	BLM21R121SKPT			
L806	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
-808	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
* L809	V8143400	Chip Inductance	BLM21R121SKPT			
* -818	V8143400	Chip Inductance	BLM21R121SKPT			
L819	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
L820	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
* L821	V8143400	Chip Inductance	BLM21R121SKPT			
* -825	V8143400	Chip Inductance	BLM21R121SKPT			
L851	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
* L852	V8143400	Chip Inductance	BLM21R121SKPT			
* -856	V8143400	Chip Inductance	BLM21R121SKPT			
L857	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
L858	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
* L859	V8143400	Chip Inductance	BLM21R121SKPT			
* -878	V8143400	Chip Inductance	BLM21R121SKPT			
* L901	V8143400	Chip Inductance	BLM21R121SKPT			
* -945	V8143400	Chip Inductance	BLM21R121SKPT			
* L951	V8143400	Chip Inductance	BLM21R121SKPT			
* -982	V8143400	Chip Inductance	BLM21R121SKPT			
* L991	V7758900	Coil	CDEP134-H-2R7 2.7u			
* L992	V7759000	Coil	CDEP134-H-4R8 4.8u			
R001	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R002	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
-011	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R052	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R053	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R054	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R055	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R056	RD255150	Carbon Resistor (chip)	150.0 0.1 J			01
R057	RD256150	Carbon Resistor (chip)	1.5K 0.1 J			01
R058	RD257470	Carbon Resistor (chip)	47.0K 0.1 J			01
-060	RD257470	Carbon Resistor (chip)	47.0K 0.1 J			01
R061	V1195300	Metal Film Resistor (chip)	1.5K 1/10 D			01
R062	V1195500	Metal Film Resistor (chip)	1.8K 1/10 D			01
R063	V1193700	Metal Film Resistor (chip)	330.0 1/10 D			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R064	VI194900	Metal Film Resistor (chip)	1.0K 1/10 D			01
R065	RD257470	Carbon Resistor (chip)	47.0K 0.1 J			01
R066	VI195300	Metal Film Resistor (chip)	1.5K 1/10 D			01
R067	VI195500	Metal Film Resistor (chip)	1.8K 1/10 D			01
R068	VI193700	Metal Film Resistor (chip)	330.0 1/10 D			01
R069	VI196000	Metal Film Resistor (chip)	3.0K 1/10 D			01
R071	RD257470	Carbon Resistor (chip)	47.0K 0.1 J			01
R072	RD257470	Carbon Resistor (chip)	47.0K 0.1 J			01
R073	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R074	VI194600	Metal Film Resistor (chip)	750.0 1/10 D			01
R075	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R076	VI196100	Metal Film Resistor (chip)	3.3K 1/10 D			01
R077	RD256470	Carbon Resistor (chip)	4.7K 0.1 J			01
R078	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R079	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R080	RD256150	Carbon Resistor (chip)	1.5K 0.1 J			01
R081	RD255150	Carbon Resistor (chip)	150.0 0.1 J			01
R082	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R083	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R084	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R101	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
-104	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R105	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
-108	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R109	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
-118	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R119	VI195700	Metal Film Resistor (chip)	2.2K 1/10 D			01
-132	VI195700	Metal Film Resistor (chip)	2.2K 1/10 D			01
R401	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
-404	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R701	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
-703	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R961	RD257330	Carbon Resistor (chip)	33.0K 0.1 J			01
R962	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R963	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
R964	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
R965	RD253470	Carbon Resistor (chip)	4.7 0.1 J			01
R966	RD253470	Carbon Resistor (chip)	4.7 0.1 J			01
R967	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
* R968	V8106300	Carbon Resistor (chip)	5.1			01
R969	RD257160	Carbon Resistor (chip)	16.0K 0.1 J			01
R970	RD256750	Carbon Resistor (chip)	7.5K 0.1 J			01
R971	RD257330	Carbon Resistor (chip)	33.0K 0.1 J			01
R972	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R973	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
R974	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
R975	RD253470	Carbon Resistor (chip)	4.7 0.1 J			01
R976	RD253470	Carbon Resistor (chip)	4.7 0.1 J			01
R977	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
* R978	V8106400	Carbon Resistor (chip)	6.8			01
R979	RD257160	Carbon Resistor (chip)	16.0K 0.1 J			01
R980	RD256510	Carbon Resistor (chip)	5.1K 0.1 J			01
R981	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
RA001	RE047100	Resistor Array	10KX4			01
-043	RE047100	Resistor Array	10KX4			01
RA051	RE047100	Resistor Array	10KX4			01
-067	RE047100	Resistor Array	10KX4			01
RA701	RE047100	Resistor Array	10KX4			01
RA702	RE047100	Resistor Array	10KX4			01
RA801	RE047100	Resistor Array	10KX4			01
-804	RE047100	Resistor Array	10KX4			01
RA807	RE047100	Resistor Array	10KX4			01
-810	RE047100	Resistor Array	10KX4			01
RA851	RE047100	Resistor Array	10KX4			01
-854	RE047100	Resistor Array	10KX4			01
RA857	RE047100	Resistor Array	10KX4			01
-860	RE047100	Resistor Array	10KX4			01
RA861	RE044680	Resistor Array	68X4			01
-864	RE044680	Resistor Array	68X4			01
RA901	RE044220	Resistor Array	22X4			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
RA902	RE044220	Resistor Array	22X4			01
RA903	RE047100	Resistor Array	10KX4			01
-905	RE047100	Resistor Array	10KX4			01
RA907	RE047100	Resistor Array	10KX4			01
RA908	RE047100	Resistor Array	10KX4			01
RA909	RE044220	Resistor Array	22X4			01
RA910	RE044220	Resistor Array	22X4			01
RA911	RE047100	Resistor Array	10KX4			01
RA913	RE047100	Resistor Array	10KX4			01
RA914	RE047100	Resistor Array	10KX4			01
RA951	RE047100	Resistor Array	10KX4			01
-954	RE047100	Resistor Array	10KX4			01
RA957	RE047100	Resistor Array	10KX4			01
SC065	VV047100	IC Socket	DICF-8CS-E			01
TP066	VE340300	Test Pin	IRS-1169			01
* X051	V8904400	Quartz Crystal Unit	45.1584MHz DSO751S			
* X052	V8904500	Quartz Crystal Unit	49.152MHz DSO751S			
X101	VZ156100	Quartz Crystal Unit	60MHz DSO751S			06
X401	VZ156100	Quartz Crystal Unit	60MHz DSO751S			06
* V6286600	Circuit Board	DM2K FD1		(XZ029B0)		
EC030030	Flat Head Screw	3.0X6 MFZN2BL			32	01
* V6316100	Fader Angle				2	
C101	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-140	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C141	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C142	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C143	UF128220	Electrolytic Cap. (chip)	220 10V			01
C144	UF027470	Electrolytic Cap. (chip)	47 10V			01
C145	UF037470	Electrolytic Cap. (chip)	47 16V			01
C146	UB052100	Monolithic Ceramic Cap.	SL 100P 50V J			01
-149	UB052100	Monolithic Ceramic Cap.	SL 100P 50V J			01
C150	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C151	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C152	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C153	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C154	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C155	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C156	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C157	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C158	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C159	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C160	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C161	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C162	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C163	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C164	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C165	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C166	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C167	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C168	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C169	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C170	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C171	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C172	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C173	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C174	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C175	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C176	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C177	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C178	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C179	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C180	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C181	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C182	UF037100	Electrolytic Cap. (chip)	10 16V			01
C183	VS029500	Mylar Capacitor (chip)	0.00047 50V G			
C184	VS029500	Mylar Capacitor (chip)	0.00047 50V G			
C185	UB051470	Monolithic Ceramic Cap.	SL 47P 50V J			01
C186	UF037100	Electrolytic Cap. (chip)	10 16V			01
C187	VS029500	Mylar Capacitor (chip)	0.00047 50V G			

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C188	VS029500	Mylar Capacitor (chip)	0.00047 50V G			
C189	UB051470	Monolithic Ceramic Cap.	SL 47P 50V J			01
C190	UB051470	Monolithic Ceramic Cap.	SL 47P 50V J			01
C191	UB013270	Monolithic Ceramic Cap.	B 2700P 50V K			01
C192	UB012270	Monolithic Ceramic Cap.	B 270P 50V K			01
C193	UB013150	Monolithic Ceramic Cap.	B 1500P 50V K			01
C194	UF037470	Electrolytic Cap. (chip)	47 16V			01
C195	UB052470	Monolithic Ceramic Cap.	SL 470P 50V J			01
C212	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C213	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
CN101	VO022300	Connector, FFC	52044 40P SE			02
CN102	VI879400	Cable Holder	51048 16P TE			01
D101	VT332900	Diode	1SS355 TE-17			01
-103	VT332900	Diode	1SS355 TE-17			01
DA121	VV556300	Diode Array	DAN217 0.3A X2			01
DA122	VV556300	Diode Array	DAN217 0.3A X2			01
* DA123	V8974000	Zener Diode	NNCD6.2MF 6.2V SMD			
* -138	V8974000	Zener Diode	NNCD6.2MF 6.2V SMD			
EM101	FZ006970	LC Filter	MTY223NBTBM			02
-107	FZ006970	LC Filter	MTY223NBTBM			02
IC101	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
-103	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC104	XY198A00	IC	MM74HC273SJX	D-FF		03
-109	XY198A00	IC	MM74HC273SJX	D-FF		03
IC110	XS790A00	IC	TC74HC4052AF	MULTIPLEXER		02
IC111	XS790A00	IC	TC74HC4052AF	MULTIPLEXER		02
IC112	XR532A00	IC	NJM2904V(TE1)	OP AMP		02
IC113	XR532A00	IC	NJM2904V(TE1)	OP AMP		02
IC114	XW618A00	IC	TA7291F	MOTOR DRIVER		02
-129	XW618A00	IC	TA7291F	MOTOR DRIVER		02
IC130	XH610A00	IC	HD74LS06FPEL	INVERTER		02
-132	XH610A00	IC	HD74LS06FPEL	INVERTER		02
IC133	XT618A00	IC	NJM2068V(TE1)	OP AMP		01
-136	XT618A00	IC	NJM2068V(TE1)	OP AMP		01
IC137	XR532A00	IC	NJM2904V(TE1)	OP AMP		02
IC138	XW105A00	IC	MM74HC00SJX	NAND		01
* IC139	IS405100	IC	HD74LV4051AFPEL	MULTIPLEXER		
* IC140	IS405100	IC	HD74LV4051AFPEL	MULTIPLEXER		
R101	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-104	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R105	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R106	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R107	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
R108	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R109	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R110	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R111	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
R112	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R113	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R114	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R115	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
R116	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R117	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R118	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R119	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
R120	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R121	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R122	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R123	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
R124	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R125	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R126	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R127	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
R128	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R129	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R130	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R131	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
R132	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R133	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R134	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R135	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
R136	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R137	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R138	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R139	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
R140	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R141	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R142	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R143	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
R144	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R145	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R146	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R147	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
R148	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R149	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R150	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R151	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
R152	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R153	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R154	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R155	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
R156	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R157	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R158	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R159	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
R160	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R161	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R162	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R163	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
R164	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R165	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R166	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R167	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
R168	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R169	RD256390	Carbon Resistor (chip)	3.9K 0.1 J			01
R170	RD256160	Carbon Resistor (chip)	1.6K 0.1 J			01
R171	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R172	RD257120	Carbon Resistor (chip)	12.0K 0.1 J			01
R173	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R174	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R175	RD256180	Carbon Resistor (chip)	1.8K 0.1 J			01
R176	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R177	RD257750	Carbon Resistor (chip)	75.0K 0.1 J			01
R178	RD256150	Carbon Resistor (chip)	1.5K 0.1 J			01
R179	RD258150	Carbon Resistor (chip)	150.0K 0.1 J			01
R180	RD257470	Carbon Resistor (chip)	47.0K 0.1 J			01
R181	RD256330	Carbon Resistor (chip)	3.3K 0.1 J			01
R182	RD256330	Carbon Resistor (chip)	3.3K 0.1 J			01
R183	RD257240	Carbon Resistor (chip)	24.0K 0.1 J			01
R184	RD256180	Carbon Resistor (chip)	1.8K 0.1 J			01
R185	RD258130	Carbon Resistor (chip)	130.0K 0.1 J			01
R186	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
-188	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R189	RD257200	Carbon Resistor (chip)	20.0K 0.1 J			01
R190	RD257200	Carbon Resistor (chip)	20.0K 0.1 J			01
R191	RD257150	Carbon Resistor (chip)	15.0K 0.1 J			01
R192	RD257150	Carbon Resistor (chip)	15.0K 0.1 J			01
R193	RD258330	Carbon Resistor (chip)	330.0K 0.1 J			01
R194	RD256220	Carbon Resistor (chip)	2.2K 0.1 J			01
R195	RD256910	Carbon Resistor (chip)	9.1K 0.1 J			01
R196	RD257470	Carbon Resistor (chip)	47.0K 0.1 J			01
R197	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R198	RD257470	Carbon Resistor (chip)	47.0K 0.1 J			01
R199	RD255150	Carbon Resistor (chip)	150.0 0.1 J			01
R200	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
-215	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R216	RD258150	Carbon Resistor (chip)	150.0K 0.1 J			01
-231	RD258150	Carbon Resistor (chip)	150.0K 0.1 J			01
RA101	RE047100	Resistor Array	10KX4			01
-106	RE047100	Resistor Array	10KX4			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* VR101	V6226100	Slide Pot., Motor Drive	B10K	1 fader		
* VR102	V6226100	Slide Pot., Motor Drive	B10K	2 fader		
* VR103	V6226100	Slide Pot., Motor Drive	B10K	3 fader		
* VR104	V6226100	Slide Pot., Motor Drive	B10K	4 fader		
* VR105	V6226100	Slide Pot., Motor Drive	B10K	5 fader		
* VR106	V6226100	Slide Pot., Motor Drive	B10K	6 fader		
* VR107	V6226100	Slide Pot., Motor Drive	B10K	7 fader		
* VR108	V6226100	Slide Pot., Motor Drive	B10K	8 fader		
* VR109	V6226100	Slide Pot., Motor Drive	B10K	9 fader		
* VR110	V6226100	Slide Pot., Motor Drive	B10K	10 fader		
* VR111	V6226100	Slide Pot., Motor Drive	B10K	11 fader		
* VR112	V6226100	Slide Pot., Motor Drive	B10K	12 fader		
* VR113	V6226100	Slide Pot., Motor Drive	B10K	13 fader		
* VR114	V6226100	Slide Pot., Motor Drive	B10K	14 fader		
* VR115	V6226100	Slide Pot., Motor Drive	B10K	15 fader		
* VR116	V6226100	Slide Pot., Motor Drive	B10K	16 fader		
* W102	V9000300	Jumper Wire	FVP=2.0C26SB16-500			
ZD101	VU171800	Zener Diode	UDZ 4.7BTE-17 4.7V			01
* V6286800		Circuit Board	DM2K FD2	(XZ030B0)		
* EC030030		Flat Head Screw	3.0X6 MFZN2BL		18	01
* V6316200		Fader Angle F	FRONT			
* V6660300		Fader Angle R	REAR			
C101	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-129	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C130	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C131	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C132	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C133	UF037470	Electrolytic Cap. (chip)	47 16V			01
C134	UF037470	Electrolytic Cap. (chip)	47 16V			01
C135	UB052100	Monolithic Ceramic Cap.	SL 100P 50V J			01
-137	UB052100	Monolithic Ceramic Cap.	SL 100P 50V J			01
C138	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C139	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C140	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C141	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C142	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C143	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C144	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C145	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C146	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C147	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C148	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C149	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C150	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C151	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C152	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C153	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C154	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C155	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C156	UF037100	Electrolytic Cap. (chip)	10 16V			01
C157	VS029500	Mylar Capacitor (chip)	0.00047 50V G			
C158	VS029500	Mylar Capacitor (chip)	0.00047 50V G			
C159	UB051470	Monolithic Ceramic Cap.	SL 47P 50V J			01
C160	UF037100	Electrolytic Cap. (chip)	10 16V			01
C161	VS029500	Mylar Capacitor (chip)	0.00047 50V G			
C162	VS029500	Mylar Capacitor (chip)	0.00047 50V G			
C163	UB051470	Monolithic Ceramic Cap.	SL 47P 50V J			01
C164	UB051470	Monolithic Ceramic Cap.	SL 47P 50V J			01
C165	UB013270	Monolithic Ceramic Cap.	B 2700P 50V K			01
C166	UB012270	Monolithic Ceramic Cap.	B 270P 50V K			01
C167	UB013150	Monolithic Ceramic Cap.	B 1500P 50V K			01
C168	UF037470	Electrolytic Cap. (chip)	47 16V			01
C169	UB052470	Monolithic Ceramic Cap.	SL 470P 50V J			01
CN101	VQ046500	Connector, FFC	52044 36P SE			01
CN102	VI879000	Cable Holder	51048 12P TE			01
D101	VT332900	Diode	1SS355 TE-17			01
-103	VT332900	Diode	1SS355 TE-17			01
DA101	VV556300	Diode Array	DAN217 0.3A X2			01
-105	VV556300	Diode Array	DAN217 0.3A X2			01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* DA115	V8974000	Zener Diode	NNCD6.2MF 6.2V SMD			
* -123	V8974000	Zener Diode	NNCD6.2MF 6.2V SMD			
EM101	FZ006970	LC Filter	MTY223NBTBM			02
-105	FZ006970	LC Filter	MTY223NBTBM			02
IC101	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
-103	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC104	XY198A00	IC	MM74HC273SJX	D-FF		03
-107	XY198A00	IC	MM74HC273SJX	D-FF		03
IC108	XS790A00	IC	TC74HC4052AF	MULTIPLEXER		02
IC109	XR532A00	IC	NJM2904V(TE1)	OP AMP		02
IC110	XR532A00	IC	NJM2904V(TE1)	OP AMP		02
IC111	XW618A00	IC	TA7291F	MOTOR DRIVER		02
-119	XW618A00	IC	TA7291F	MOTOR DRIVER		02
IC120	XH610A00	IC	HD74LS06FPEL	INVERTER		02
IC121	XH610A00	IC	HD74LS06FPEL	INVERTER		02
IC122	XT618A00	IC	NJM2068V(TE1)	OP AMP		01
-125	XT618A00	IC	NJM2068V(TE1)	OP AMP		01
IC126	XR532A00	IC	NJM2904V(TE1)	OP AMP		02
IC127	XW105A00	IC	MM74HC00SJX	NAND		01
* IC128	IS405100	IC	HD74LV4051AFPEL	MULTIPLEXER		
* IC129	IS405100	IC	HD74LV4051AFPEL	MULTIPLEXER		
R101	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-103	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R104	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R105	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R106	RD256680	Carbon Resistor (chip)	680.0 0.1 J			01
R107	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R108	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R109	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R110	RD256680	Carbon Resistor (chip)	680.0 0.1 J			01
R111	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R112	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R113	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R114	RD256680	Carbon Resistor (chip)	680.0 0.1 J			01
R115	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R116	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R117	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R118	RD256680	Carbon Resistor (chip)	680.0 0.1 J			01
R119	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R120	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R121	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R122	RD256680	Carbon Resistor (chip)	680.0 0.1 J			01
R123	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R124	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R125	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R126	RD256680	Carbon Resistor (chip)	680.0 0.1 J			01
R127	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R128	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R129	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R130	RD256680	Carbon Resistor (chip)	680.0 0.1 J			01
R131	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R132	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R133	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R134	RD256680	Carbon Resistor (chip)	680.0 0.1 J			01
R135	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R136	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R137	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
R138	RD256680	Carbon Resistor (chip)	680.0 0.1 J			01
R139	RD155100	Carbon Resistor (chip)	100.0 1/4 J			01
R140	RD256390	Carbon Resistor (chip)	3.9K 0.1 J			01
R141	RD256160	Carbon Resistor (chip)	1.6K 0.1 J			01
R142	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R143	RD257120	Carbon Resistor (chip)	12.0K 0.1 J			01
R144	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R145	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R146	RD256180	Carbon Resistor (chip)	1.8K 0.1 J			01
R147	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R148	RD257750	Carbon Resistor (chip)	75.0K 0.1 J			01
R149	RD256150	Carbon Resistor (chip)	1.5K 0.1 J			01
R150	RD258150	Carbon Resistor (chip)	150.0K 0.1 J			01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R151	RD257470	Carbon Resistor (chip)	47.0K 0.1 J			01
R152	RD256330	Carbon Resistor (chip)	3.3K 0.1 J			01
R153	RD256330	Carbon Resistor (chip)	3.3K 0.1 J			01
R154	RD257240	Carbon Resistor (chip)	24.0K 0.1 J			01
R155	RD256180	Carbon Resistor (chip)	1.8K 0.1 J			01
R156	RD258130	Carbon Resistor (chip)	130.0K 0.1 J			01
R157	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
-159	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R160	RD257200	Carbon Resistor (chip)	20.0K 0.1 J			01
R161	RD257200	Carbon Resistor (chip)	20.0K 0.1 J			01
R162	RD257150	Carbon Resistor (chip)	15.0K 0.1 J			01
R163	RD257150	Carbon Resistor (chip)	15.0K 0.1 J			01
R164	RD258330	Carbon Resistor (chip)	330.0K 0.1 J			01
R165	RD256220	Carbon Resistor (chip)	2.2K 0.1 J			01
R166	RD256910	Carbon Resistor (chip)	9.1K 0.1 J			01
R167	RD257470	Carbon Resistor (chip)	47.0K 0.1 J			01
R168	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R169	RD257470	Carbon Resistor (chip)	47.0K 0.1 J			01
R170	RD255150	Carbon Resistor (chip)	150.0 0.1 J			01
R171	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
-179	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R180	RD258150	Carbon Resistor (chip)	150.0K 0.1 J			01
-188	RD258150	Carbon Resistor (chip)	150.0K 0.1 J			01
RA101	RE047100	Resistor Array	10KX4			01
-106	RE047100	Resistor Array	10KX4			01
* VR101	V6226100	Slide Pot., Motor Drive	B10K	17 fader		
* VR102	V6226100	Slide Pot., Motor Drive	B10K	18 fader		
* VR103	V6226100	Slide Pot., Motor Drive	B10K	19 fader		
* VR104	V6226100	Slide Pot., Motor Drive	B10K	20 fader		
* VR105	V6226100	Slide Pot., Motor Drive	B10K	21 fader		
* VR106	V6226100	Slide Pot., Motor Drive	B10K	22 fader		
* VR107	V6226100	Slide Pot., Motor Drive	B10K	23 fader		
* VR108	V6226100	Slide Pot., Motor Drive	B10K	24 fader		
* VR109	V6226100	Slide Pot., Motor Drive	B10K	STEREO fader		
* W102	V8412200	Jumper Wire	FVP=2.0C26SB12-500			
ZD101	VU171800	Zener Diode	UDZ 4.7BTE-17 4.7V			01
*	V6285900	Circuit Board	DM2K JK1	(XZ024B0)		
	--	Earth Film-JK1		(V907450)		
C001	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C002	UF037220	Electrolytic Cap. (chip)	22 16V			01
C003	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-006	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C012	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
* C022	V9074200	Mylar Capacitor (chip)	0.1500 50V J			
* C023	V9074200	Mylar Capacitor (chip)	0.1500 50V J			
C024	VS026900	Mylar Capacitor (chip)	0.0039 16V G			01
C025	VS026900	Mylar Capacitor (chip)	0.0039 16V G			01
C026	UF066100	Electrolytic Cap. (chip)	1 50V			01
-028	UF066100	Electrolytic Cap. (chip)	1 50V			01
C031	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-033	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C036	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-038	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C041	UF066100	Electrolytic Cap. (chip)	1 50V			01
-043	UF066100	Electrolytic Cap. (chip)	1 50V			01
* C047	V9074200	Mylar Capacitor (chip)	0.1500 50V J			
C048	VS026900	Mylar Capacitor (chip)	0.0039 16V G			01
C049	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C050	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C051	UF066100	Electrolytic Cap. (chip)	1 50V			01
-053	UF066100	Electrolytic Cap. (chip)	1 50V			01
C054	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-060	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C061	UF066100	Electrolytic Cap. (chip)	1 50V			01
-063	UF066100	Electrolytic Cap. (chip)	1 50V			01
C064	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-075	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C101	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C102	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01

* New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C151	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C152	US062100	Ceramic Capacitor-SL(chip)	100P 50V J			01
C153	US062100	Ceramic Capacitor-SL(chip)	100P 50V J			01
C201	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C202	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C203	US061100	Ceramic Capacitor-CH(chip)	10P 50V D			01
C204	US061100	Ceramic Capacitor-CH(chip)	10P 50V D			01
C205	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C206	US062680	Ceramic Capacitor-SL(chip)	680P 50V J			01
C207	UF037100	Electrolytic Cap. (chip)	10 16V			01
C208	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C209	US061330	Ceramic Capacitor-CH(chip)	33P 50V J			01
C210	UF037100	Electrolytic Cap. (chip)	10 16V			01
C211	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C212	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C251	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-253	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C301	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C302	UF066100	Electrolytic Cap. (chip)	1 50V			01
C303	UF066100	Electrolytic Cap. (chip)	1 50V			01
C304	US062100	Ceramic Capacitor-SL(chip)	100P 50V J			01
C305	US062100	Ceramic Capacitor-SL(chip)	100P 50V J			01
C306	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C307	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C308	UF167470	Electrolytic Cap. (chip)	47 50V UUR1H4			01
C309	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-311	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C312	UF037100	Electrolytic Cap. (chip)	10 16V			01
C313	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C314	US062100	Ceramic Capacitor-SL(chip)	100P 50V J			01
C351	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-353	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C354	US061270	Ceramic Capacitor-CH(chip)	27P 50V J			01
C355	US061270	Ceramic Capacitor-CH(chip)	27P 50V J			01
C356	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-358	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C401	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-403	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C405	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-410	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C451	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-459	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C460	UF118330	Electrolytic Cap. (chip)	330 6.3V UUR0J3			01
C461	UF047100	Electrolytic Cap. (chip)	10 25V			01
C462	UF047100	Electrolytic Cap. (chip)	10 25V			01
C463	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-465	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C466	UF037100	Electrolytic Cap. (chip)	10 16V			01
C467	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
CN201	V3671200	USB Jack	USB 4P TE	TO HOST USB		03
CN901	VQ048500	Connector, FFC	52045 36P TE			02
CN902	VO022100	Connector, FFC	52045 40P TE			02
CN907	VK025500	Wire Trap	52147 11P TE			01
D301	VT332900	Diode	1SS355 TE-17			01
DA101	VV556300	Diode Array	DAN217 0.3A X2			01
DA151	VV556300	Diode Array	DAN217 0.3A X2			01
DA152	VV556300	Diode Array	DAN217 0.3A X2			01
EM051	FZ006970	LC Filter	MTY223NBTBM			02
EM052	FZ006920	LC Filter	MTB271KBTBM			01
-057	FZ006920	LC Filter	MTB271KBTBM			01
EM101	FZ006920	LC Filter	MTB271KBTBM			01
EM151	FZ006920	LC Filter	MTB271KBTBM			01
EM152	FZ006920	LC Filter	MTB271KBTBM			01
EM251	FZ006920	LC Filter	MTB271KBTBM			01
-255	FZ006920	LC Filter	MTB271KBTBM			01
EM301	FZ006920	LC Filter	MTB271KBTBM			01
-304	FZ006920	LC Filter	MTB271KBTBM			01
EM351	FZ006920	LC Filter	MTB271KBTBM			01
EM352	FZ006920	LC Filter	MTB271KBTBM			01
EM353	FZ006970	LC Filter	MTY223NBTBM			02

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
EM354	FZ006970	LC Filter	MTY223NBTBM			02
EM451	FZ006970	LC Filter	MTY223NBTBM			02
EM452	FZ007070	LC Filter	MTX222MBTBM			01
EM453	FZ007070	LC Filter	MTX222MBTBM			01
EM454	FZ006970	LC Filter	MTY223NBTBM			02
IC001	XW842A00	IC	SN74HCU04NSR	INVERTER		01
* IC003	XW559A00	IC	CS8420	SRC		
* -005	XW559A00	IC	CS8420	SRC		
* IC051	XW559A00	IC	CS8420	SRC		
* -053	XW559A00	IC	CS8420	SRC		
IC054	XV794A00	IC	TC74VHC153F	MULTIPLEXER		
IC055	XW875A00	IC	TC74VHC74F-EL	D-FF		01
IC056	XV794A00	IC	TC74VHC153F	MULTIPLEXER		
IC057	XV794A00	IC	TC74VHC153F	MULTIPLEXER		
IC101	XV930A00	IC	SN75124NSR	LINE RECEIVER		05
IC151	XU816A00	IC	SN75121NSR	LINE DRIVER		05
IC201	XW147100	IC	M37640M8-101FP	MASK CPU (USB)		10
* IC201	X0157100	IC	32KM37640M8-138FP	MASK CPU (USB)		
IC202	XW914C00	IC	539V110	FLASH ROM 4M		
IC251	XL334A00	IC	MC26LS30DR2	LINE DRIVER		08
IC252	XU815A00	IC	DS26C32ATMX	LINE RECEIVER		
IC301	VR903700	Photo Coupler	HCPL-M600			04
IC302	XA862B00	IC	NJM4560M(T1)	OP AMP		02
IC303	IG156700	IC	UPC319G2	COMPARATOR		05
IC304	XV619A00	IC	ICS2008A	T.C. READER/GENERATOR		15
IC351	XW313A00	IC	TC74VHC125F	BUFFER		02
IC352	XW842A00	IC	SN74HCU04NSR	INVERTER		01
IC353	XT230A00	IC	TC74VHC02F	NOR		01
IC354	XV513A00	IC	MSM82C51A-2GS-KR1	USART		06
IC401	XW324A00	IC	TC74VHC139F(EL)	DECODER		01
IC402	XT015A00	IC	TC74VHC138F	DECODER		02
IC403	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC405	XY254A00	IC	TC74VHC273F(EL)	D-FF		03
-408	XY254A00	IC	TC74VHC273F(EL)	D-FF		03
IC409	XM332A00	IC	TC74VHC04F(EL)	INVERTER		01
IC410	XM332A00	IC	TC74VHC04F(EL)	INVERTER		01
IC451	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-454	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC455	XT800A00	IC	TC74VHC244F	BUFFER		03
IC456	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC457	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC458	XT800A00	IC	TC74VHC244F	BUFFER		03
IC459	XW876A00	IC	TC74VHC14F-EL	INVERTER		01
JK001	VS133800	Cannon Connector	NC3FAH1-0	2TR IN DIGITAL 1 AES/EBU		04
JK002	VS133800	Cannon Connector	NC3FAH1-0	2TR IN DIGITAL 2 AES/EBU		04
JK003	V7705200	Pin Jack Black	1P YKC21-3894	2TR IN DIGITAL 3 COAXIAL		01
JK051	VS133700	Cannon Connector	NC3MAH	2TR OUT DIGITAL 1 AES/EBU		04
JK052	VS133700	Cannon Connector	NC3MAH	2TR OUT DIGITAL 2 AES/EBU		04
JK053	V7705200	Pin Jack Black	1P YKC21-3894	2TR OUT DIGITAL 3 COAXIAL		01
JK101	V6415900	BNC Connector	1P YKS11-0067	WORD CLOCK IN		05
JK151	V6415900	BNC Connector	1P YKS11-0067	WORD CLOCK OUT 1		05
JK152	V6415900	BNC Connector	1P YKS11-0067	WORD CLOCK OUT 2		05
JK251	VN997100	DIN Connector	8P TCS7927 MINI	TO HOST SERIAL		04
JK301	VS133800	Cannon Connector	NC3FAH1-0	TIME CODE INPUT SMPTE		04
JK302	VK018800	DIN Connector	x1 5P3 YKF51-50	TIME CODE INPUT MTC		02
JK351	V2452000	DIN Connector	6P TCS7927 MINI	KEYBOARD		04
* K001	V7539800	Cannon Angle				
* K002	V7539800	Cannon Angle				
* K051	V7539800	Cannon Angle				
* K052	V7539800	Cannon Angle				
* K201	V6442200	USB Angle				
* K301	V7539800	Cannon Angle				
L001	VP246300	Noise Filter	ZJY51R5-2P			04
L002	VP246300	Noise Filter	ZJY51R5-2P			04
L003	V7930100	Pulse Transformer	TB06A015			05
L004	V7930100	Pulse Transformer	TB06A015			05
L005	GE300610	Ferrite Bead	BL02RN1-R62T4			01
-007	GE300610	Ferrite Bead	BL02RN1-R62T4			01
L010	GE300610	Ferrite Bead	BL02RN1-R62T4			01
-012	GE300610	Ferrite Bead	BL02RN1-R62T4			01

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REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
L051	GE300610	Ferrite Bead	BL02RN1-R62T4		01
-056	GE300610	Ferrite Bead	BL02RN1-R62T4		01
* L057	V8143400	Chip Inductance	BLM21R121SKPT		
* L058	V8143400	Chip Inductance	BLM21R121SKPT		
L059	V7930100	Pulse Transformer	TB06A015		05
-061	V7930100	Pulse Transformer	TB06A015		05
L201	GE300610	Ferrite Bead	BL02RN1-R62T4		01
L202	V5239100	Common Mode Coil	PLP3216S121SL2T1		03
L203	GE300610	Ferrite Bead	BL02RN1-R62T4		01
* L451	V8143400	Chip Inductance	BLM21R121SKPT		
* -469	V8143400	Chip Inductance	BLM21R121SKPT		
R001	RD254750	Carbon Resistor (chip)	75.0 0.1 J		01
R002	RD258100	Carbon Resistor (chip)	100.0K 0.1 J		01
R003	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R004	RD256470	Carbon Resistor (chip)	4.7K 0.1 J		01
R005	RD256220	Carbon Resistor (chip)	2.2K 0.1 J		01
R006	RD255110	Carbon Resistor (chip)	110.0 0.1 J		01
R007	RD255110	Carbon Resistor (chip)	110.0 0.1 J		01
R013	V1196400	Metal Film Resistor (chip)	3.9K 1/10 D		01
R014	V1196400	Metal Film Resistor (chip)	3.9K 1/10 D		01
R015	RD257470	Carbon Resistor (chip)	47.0K 0.1 J		01
-017	RD257470	Carbon Resistor (chip)	47.0K 0.1 J		01
R020	RD257220	Carbon Resistor (chip)	22.0K 0.1 J		01
-022	RD257220	Carbon Resistor (chip)	22.0K 0.1 J		01
R025	RD257470	Carbon Resistor (chip)	47.0K 0.1 J		01
-027	RD257470	Carbon Resistor (chip)	47.0K 0.1 J		01
R030	RD257470	Carbon Resistor (chip)	47.0K 0.1 J		01
-032	RD257470	Carbon Resistor (chip)	47.0K 0.1 J		01
R043	V1196400	Metal Film Resistor (chip)	3.9K 1/10 D		01
R051	RD257470	Carbon Resistor (chip)	47.0K 0.1 J		01
-053	RD257470	Carbon Resistor (chip)	47.0K 0.1 J		01
R054	RD257220	Carbon Resistor (chip)	22.0K 0.1 J		01
-056	RD257220	Carbon Resistor (chip)	22.0K 0.1 J		01
R057	RD257470	Carbon Resistor (chip)	47.0K 0.1 J		01
-062	RD257470	Carbon Resistor (chip)	47.0K 0.1 J		01
R063	RD255220	Carbon Resistor (chip)	220.0 0.1 J		01
R064	RD254430	Carbon Resistor (chip)	43.0 0.1 J		01
R065	RD254390	Carbon Resistor (chip)	39.0 0.1 J		01
R066	RD255110	Carbon Resistor (chip)	110.0 0.1 J		01
R067	RD250000	Carbon Resistor (chip)	0.0 0.0 J		01
R068	RD255110	Carbon Resistor (chip)	110.0 0.1 J		01
R069	RD250000	Carbon Resistor (chip)	0.0 0.0 J		01
R101	RD254750	Carbon Resistor (chip)	75.0 0.1 J		01
R102	RD254470	Carbon Resistor (chip)	47.0 0.1 J		01
R151	RD256220	Carbon Resistor (chip)	2.2K 0.1 J		01
R152	RD253470	Carbon Resistor (chip)	4.7 0.1 J		01
R153	RD256220	Carbon Resistor (chip)	2.2K 0.1 J		01
R154	RD253470	Carbon Resistor (chip)	4.7 0.1 J		01
R201	RD256100	Carbon Resistor (chip)	1.0K 0.1 J		01
R202	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R205	RD250000	Carbon Resistor (chip)	0.0 0.0 J		01
R206	RD255680	Carbon Resistor (chip)	680.0 0.1 J		01
R207	RD256100	Carbon Resistor (chip)	1.0K 0.1 J		01
R208	RD154330	Carbon Resistor (chip)	33.0 1/4 J		01
R209	RD154330	Carbon Resistor (chip)	33.0 1/4 J		01
R210	RD256150	Carbon Resistor (chip)	1.5K 0.1 J		01
R211	RD250000	Carbon Resistor (chip)	0.0 0.0 J		01
R212	RD250000	Carbon Resistor (chip)	0.0 0.0 J		01
R213	RD256470	Carbon Resistor (chip)	4.7K 0.1 J		01
R214	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R215	RD256470	Carbon Resistor (chip)	4.7K 0.1 J		01
R217	RD256470	Carbon Resistor (chip)	4.7K 0.1 J		01
R251	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R252	RD257100	Carbon Resistor (chip)	10.0K 0.1 J		01
R253	RD255470	Carbon Resistor (chip)	470.0 0.1 J		01
R254	RD255470	Carbon Resistor (chip)	470.0 0.1 J		01
R255	RD257220	Carbon Resistor (chip)	22.0K 0.1 J		01
R256	RD254100	Carbon Resistor (chip)	10.0 0.1 J		01
R257	RD254100	Carbon Resistor (chip)	10.0 0.1 J		01
R301	RD255220	Carbon Resistor (chip)	220.0 0.1 J		01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R302	RD256220	Carbon Resistor (chip)	2.2K 0.1 J			01
R303	RD256220	Carbon Resistor (chip)	2.2K 0.1 J			01
R304	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
-306	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R307	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R308	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R309	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R310	RD256360	Carbon Resistor (chip)	3.6K 0.1 J			01
R311	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R351	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R352	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R353	RD259100	Carbon Resistor (chip)	1.0M 0.1 J			01
R354	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R356	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R451	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
RA201	RE047220	Resistor Array	22KX4			01
-203	RE047220	Resistor Array	22KX4			01
RA451	RE047100	Resistor Array	10KX4			01
-453	RE047100	Resistor Array	10KX4			01
RA454	RE044220	Resistor Array	22X4			01
RA455	RE044220	Resistor Array	22X4			01
RA456	RE047100	Resistor Array	10KX4			01
-459	RE047100	Resistor Array	10KX4			01
RA460	RE048100	Resistor Array	100KX4			01
RA461	RE048100	Resistor Array	100KX4			01
SW101	VR365100	Slide Switch	SSSF112-S06N1	WORD CLOCK IN ON/OFF		02
TH351	VV216100	Protector Switch	RXE050 0.50A 72V			03
* X051	V6997100	Quartz Crystal Unit	2720N 24.576MHz			
X052	V6997300	Quartz Crystal Unit	2720N 22.5792MHz			07
X201	VP864900	Quartz Crystal Unit	16MHz SMD-49			04
X301	VZ751900	Quartz Crystal Unit	14.31818MHz SMD-49			03
X351	VZ683900	Quartz Crystal Unit	6.144MHz SMD-49			05
* V6286200		Circuit Board	DM2K JK2	(XZ025B0)		
C501	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-505	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C601	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-605	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C701	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-703	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C751	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-753	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C801	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-804	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C851	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C901	UF118330	Electrolytic Cap. (chip)	330 6.3V UUR0J3			01
C902	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-915	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
CN501	V4158600	Connector	230R(SCSI) 68P SE	CASCADE IN		06
CN601	V4158600	Connector	230R(SCSI) 68P SE	CASCADE OUT		06
CN751	VU196300	Connector Socket	17LE-23090-27(D4CH	REMOTE		04
CN801	VR147400	D-sub Connector	JBY 25P SE	CONTROL		05
CN851	VR336300	D-sub Connector	17LE 15P SE	METER		04
CN903	VO022100	Connector, FFC	52045 40P TE			02
* CN904	VQ048100	Connector, FFC	52045 32P TE			
CN905	VF667600	Wire Trap	52147 15P TE			01
CN906	VK025600	Wire Trap	52147 12P TE			01
D701	VT332900	Diode	1SS355 TE-17			01
DA501	VV556300	Diode Array	DAN217 0.3A X2			01
-536	VV556300	Diode Array	DAN217 0.3A X2			01
DA601	VV556300	Diode Array	DAN217 0.3A X2			01
-636	VV556300	Diode Array	DAN217 0.3A X2			01
DA851	VV556300	Diode Array	DAN217 0.3A X2			01
-854	VV556300	Diode Array	DAN217 0.3A X2			01
EM501	VL534100	LC Filter	NFAC1CC101S1H8L			05
-504	VL534100	LC Filter	NFAC1CC101S1H8L			05
EM505	VQ761400	EMI Filter (chip)	NFM3DCC101U1H3L			01
-508	VQ761400	EMI Filter (chip)	NFM3DCC101U1H3L			01
EM601	VL534100	LC Filter	NFAC1CC101S1H8L			05
-604	VL534100	LC Filter	NFAC1CC101S1H8L			05

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
EM605	VQ761400	EMI Filter (chip)	NFM3DCC101U1H3L			01
-608	VQ761400	EMI Filter (chip)	NFM3DCC101U1H3L			01
EM751	VQ761400	EMI Filter (chip)	NFM3DCC101U1H3L			01
-756	VQ761400	EMI Filter (chip)	NFM3DCC101U1H3L			01
EM802	VL534100	LC Filter	NFAC1CC101S1H8L			05
EM803	FZ006970	LC Filter	MTY223NBTBM			02
EM804	FZ006920	LC Filter	MTB271KBTBM			01
-811	FZ006920	LC Filter	MTB271KBTBM			01
EM851	VQ761400	EMI Filter (chip)	NFM3DCC101U1H3L			01
-854	VQ761400	EMI Filter (chip)	NFM3DCC101U1H3L			01
EM855	FZ006970	LC Filter	MTY223NBTBM			02
EM901	FZ006970	LC Filter	MTY223NBTBM			02
IC501	XU996A00	IC	AM26LS31CNSR	LINE DRIVER		05
IC502	XU815A00	IC	DS26C32ATMX	LINE RECEIVER		06
-505	XU815A00	IC	DS26C32ATMX	LINE RECEIVER		06
IC601	XU996A00	IC	AM26LS31CNSR	LINE DRIVER		05
-604	XU996A00	IC	AM26LS31CNSR	LINE DRIVER		05
IC605	XU815A00	IC	DS26C32ATMX	LINE RECEIVER		06
IC701	XW876A00	IC	TC74VHC14F-EL	INVERTER		01
IC702	VR903700	Photo Coupler	HCPL-M600			04
IC751	XU073A00	IC	SN75C1168NSR	LINE DRIVER/RECEIVER		05
IC752	IS405300	IC	HD74LV4053AFPEL	MULTIPLEXER		02
IC753	IS405300	IC	HD74LV4053AFPEL	MULTIPLEXER		02
IC801	XY254A00	IC	TC74VHC273F(EL)	D-FF		03
* IC802	IS017500	IC	HD74LV175AFPEL	D-FF		03
IC803	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC851	XU073A00	IC	SN75C1168NSR	LINE DRIVER/RECEIVER		05
IC901	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC902	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC903	XT800A00	IC	TC74VHC244F	BUFFER		03
IC904	XT800A00	IC	TC74VHC244F	BUFFER		03
IC905	XT015A00	IC	TC74VHC138F	DECODER		02
IC906	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-912	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC913	XY254A00	IC	TC74VHC273F(EL)	D-FF		03
JK701	V1466400	DIN Connector	x3 DIN YKF51-5046	MIDI IN/OUT/THRU		04
L701	GE300610	Ferrite Bead	BL02RN1-R62T4			01
-706	GE300610	Ferrite Bead	BL02RN1-R62T4			01
* L901	V8143400	Chip Inductance	BLM21R121SKPT			
* -919	V8143400	Chip Inductance	BLM21R121SKPT			
	HF755220	Carbon Resistor	220.0 1/4 J			01
R501	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R502	RD255150	Carbon Resistor (chip)	150.0 0.1 J			01
-516	RD255150	Carbon Resistor (chip)	150.0 0.1 J			01
R517	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
-534	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R535	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
R536	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
R537	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R538	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R539	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
-542	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
R543	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
-552	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R553	RD257220	Carbon Resistor (chip)	22.0K 0.1 J			01
-582	RD257220	Carbon Resistor (chip)	22.0K 0.1 J			01
R601	RD257220	Carbon Resistor (chip)	22.0K 0.1 J			01
-606	RD257220	Carbon Resistor (chip)	22.0K 0.1 J			01
R607	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
-624	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
R625	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R626	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R627	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
R628	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
R629	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R630	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R631	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
R632	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
R633	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R634	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R635	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
-642	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
R643	RD255150	Carbon Resistor (chip)	150.0 0.1 J			01
-645	RD255150	Carbon Resistor (chip)	150.0 0.1 J			01
R701	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
-705	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
R706	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R707	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R751	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R752	RD255470	Carbon Resistor (chip)	470.0 0.1 J			01
R753	RD255470	Carbon Resistor (chip)	470.0 0.1 J			01
R754	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
R755	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
R756	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R801	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R802	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R803	HV754100	Flame Proof C. Resistor	10.0 1/4 J			01
-805	HV754100	Flame Proof C. Resistor	10.0 1/4 J			01
R806	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R807	RD257470	Carbon Resistor (chip)	47.0K 0.1 J			01
R808	RD257470	Carbon Resistor (chip)	47.0K 0.1 J			01
R809	RD256470	Carbon Resistor (chip)	4.7K 0.1 J			01
-811	RD256470	Carbon Resistor (chip)	4.7K 0.1 J			01
R812	HV754100	Flame Proof C. Resistor	10.0 1/4 J			01
-819	HV754100	Flame Proof C. Resistor	10.0 1/4 J			01
R851	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R852	RD256270	Carbon Resistor (chip)	2.7K 0.1 J			01
-855	RD256270	Carbon Resistor (chip)	2.7K 0.1 J			01
R856	RD254470	Carbon Resistor (chip)	47.0 0.1 J			01
-859	RD254470	Carbon Resistor (chip)	47.0 0.1 J			01
R901	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
RA501	RE047100	Resistor Array	10KX4			01
RA502	RE047100	Resistor Array	10KX4			01
RA601	RE047100	Resistor Array	10KX4			01
RA602	RE047100	Resistor Array	10KX4			01
RA801	RE047100	Resistor Array	10KX4			01
RA901	RE047100	Resistor Array	10KX4			01
RA902	RE044220	Resistor Array	22X4			01
RA903	RE044220	Resistor Array	22X4			01
RA904	RE047100	Resistor Array	10KX4			01
-908	RE047100	Resistor Array	10KX4			01
RA909	RE048100	Resistor Array	100KX4			01
RA910	RE048100	Resistor Array	100KX4			01
TA801	VQ248500	Transistor Array	TD62381F			04
TH801	VV216100	Protector Switch	RXE050 0.50A 72V			03
TR701	VD678500	Digital Transistor	DTA114ES			01
TR801	IA101590	Transistor	2SA1015 O,Y			01
-803	IA101590	Transistor	2SA1015 O,Y			01
*	V8249100	Circuit Board	DM2 LCDCOM CNT+INV	(X2160B0)		
--	--	Circuit Board	DM2K CNT (LCDCOM)	(V646840)(X2160B0)		
--	--	Circuit Board	DM2K INV (LCDCOM)	(V646830)(X2160B0)		
--	--	Jumper Wire	0.55	(VA07890)		
C901	UI538100	Electrolytic Cap.	100.00 16.0V			01
C902	UI538100	Electrolytic Cap.	100.00 16.0V			01
C903	UI557470	Electrolytic Cap.	47.00 35.0V			01
* C904	V8564200	Electrolytic Cap. (chip)	0.039 250V ECQE2			
C905	VS147400	Ceramic Capacitor-SL	18P 3KV J			01
CN901	VK024800	Wire Trap	52147 4P TE			01
CN902	VI878100	Cable Holder	51048 3P TE			01
CN903	VK025600	Wire Trap	52147 12P TE			01
CN904	VF982200	Connector, FFC	52044 14P SE			02
CN905	VT389600	Base Post Connector	53259 4P SE			01
CN951	VI878100	Cable Holder	51048 3P TE			01
EM901	FZ006970	LC Filter	MTY223NBTBM			02
* IC901	X2216A00	IC	CE-0703	DC-DC CONVERTER		
L901	VS587900	Coil	LH L 08TB221K 220u			01
R901	HF457110	Carbon Resistor	11.0K 1/4 J			01
R902	HF457100	Carbon Resistor	10.0K 1/4 J			01
R903	HF456120	Carbon Resistor	1.2K 1/4 J			01

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R904	HF456560	Carbon Resistor	5.6K 1/4 J			01
R905	HF456560	Carbon Resistor	5.6K 1/4 J			01
R906	HF456470	Carbon Resistor	4.7K 1/4 J			01
R907	HF457470	Carbon Resistor	47.0K 1/4 J			01
R908	HF457120	Carbon Resistor	12.0K 1/4 J			01
R909	VC748400	Metal Oxide Film Resistor	2.2K 1W J			01
T901	VS602500	Inverter Transformer	CLF16A			07
TH901	VT816300	Thermistor	ERT-D2FGL332S 3.3K			01
TR901	VS185600	Transistor	2SD1863 TV2 82-390			01
TR902	VS185600	Transistor	2SD1863 TV2 82-390			01
TR903	IC1815M0	Transistor	2SC1815 Y,GR			01
VR951	V3820700	Rotary Variable Resistor	B 10K RK09K1130A5R	LCD contrast		01
* W902	V5183000	Ribbon Cable	P=2.0 #26 3P 100L			
ZD901	VG438300	Zener Diode	MTZ J 6.8B 6.8V			01
* C801	V6285800	Circuit Board	DM2K OPT	(XZ023B0)		
C802	FG652100	Ceramic Capacitor	100pF 50V			01
CN801	VP327200	Connector, FFC	52045 30P TE			01
-803	VP327200	Connector, FFC	52045 30P TE			01
CN804	VP127700	Connector, FFC	52045 24P TE			01
-806	VP127700	Connector, FFC	52045 24P TE			01
CN807	VO022300	Connector, FFC	52044 40P SE			02
CN901	VU328200	Plug	PHEC 100P TE	SLOT 1-6		05
-906	VU328200	Plug	PHEC 100P TE			05
CN907	LB932080	Base Post Connector	VH 8P TE			01
CN908	VB390200	Connector Base Post	PH 6P TE			01
R801	HF754470	Carbon Resistor	47.0 1/4			01
R802	HF754470	Carbon Resistor	47.0 1/4			01
* 20	V6286300	Circuit Board	DM2K PN1	(XZ026B0)		
* 30	V8486700	Button M_Gray	L LENS	SOLO 1-16	16	
* 40	V8486800	Button Light Gray	L LENS	ON 1-16	16	
* 50	V8486900	Button Blue	L LENS	SEL 1-16	16	
* 60	V6197400	Button Dark Gray	S LENS	MATRIX 1-4,AUX 1-12, FADER,AUX/MTRX(FD. MODE), INTERNAL EFFECTS, GRAPHIC EQUALIZERS, PLUG-INS,CHANNEL INSERTS, 1-8(EFFECTS/PLUG-INS)	30	
* 90	V8487100	Button M_Gray	S LENS	AUTO 1-16	16	
* 100	V8487400	Button Dark Gray	S	Cursor (Left,Right),F 1-4	6	
* 110	V8487500	Button M_Gray	S	Cursor (Up,Down)	2	
* 120	V8487600	Button Light Gray	S	DISPLAY,DATA,DIO,SETUP, UTILITY,MIDI,REMOTE, METER,VIEW,PAIR,GROUP, INPUT PATCH,OUTPUT PATCH PAN,AUX/MTRX(EC. MODE), ASSIGN 1-4	16	
C101	UF028100	Electrolytic Cap. (chip)	100 10V			01
C102	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C103	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-109	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C110	UF037100	Electrolytic Cap. (chip)	10 16V			01
-112	UF037100	Electrolytic Cap. (chip)	10 16V			01
C113	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-117	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
CN101	V1879500	Cable Holder	51048 17P TE			01
CN102	VK026900	Wire Trap	52151 10P SE			01
CN103	VO022300	Connector, FFC	52044 40P SE			02
D101	VT332900	Diode	1SS355 TE-17			01
-244	VT332900	Diode	1SS355 TE-17			01
* EC101	V3750900	Rotary Encoder	EC12E2444400	CH1		
* EC102	V3750900	Rotary Encoder	EC12E2444400	CH2		
* EC103	V3750900	Rotary Encoder	EC12E2444400	CH3		
* EC104	V3750900	Rotary Encoder	EC12E2444400	CH4		
* EC105	V3750900	Rotary Encoder	EC12E2444400	CH5		
* EC106	V3750900	Rotary Encoder	EC12E2444400	CH6		
* EC107	V3750900	Rotary Encoder	EC12E2444400	CH7		
* EC108	V3750900	Rotary Encoder	EC12E2444400	CH8		

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* EC109	V3750900	Rotary Encoder	EC12E2444400	CH9		
* EC110	V3750900	Rotary Encoder	EC12E2444400	CH10		
* EC111	V3750900	Rotary Encoder	EC12E2444400	CH11		
* EC112	V3750900	Rotary Encoder	EC12E2444400	CH12		
* EC113	V3750900	Rotary Encoder	EC12E2444400	CH13		
* EC114	V3750900	Rotary Encoder	EC12E2444400	CH14		
* EC115	V3750900	Rotary Encoder	EC12E2444400	CH15		
* EC116	V3750900	Rotary Encoder	EC12E2444400	CH16		
* EC117	V3750900	Rotary Encoder	EC12E2444400	EFFECT1		
* EC118	V3750900	Rotary Encoder	EC12E2444400	EFFECT2		
* EC119	V3750900	Rotary Encoder	EC12E2444400	EFFECT3		
* EC120	V3750900	Rotary Encoder	EC12E2444400	EFFECT4		
EM101	FZ006970	LC Filter	MTY223NBTBM			02
EM102	FZ006970	LC Filter	MTY223NBTBM			02
IC101	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC102	XT163A00	IC	TC74HC238AF	TRANSCEIVER		03
* IC103	IS059500	IC	HD74LV595AFPEL	REGISTER		
* IC104	IS059500	IC	HD74LV595AFPEL	REGISTER		
* IC105	IS016500	IC	HD74LV165AFPEL	REGISTER		
* -107	IS016500	IC	HD74LV165AFPEL	REGISTER		
* LD101	V3670200	LED Yellow	LT1H40A	ON1		
* LD102	V3670200	LED Yellow	LT1H40A	ON2		
* LD103	V3670200	LED Yellow	LT1H40A	ON3		
* LD104	V3670200	LED Yellow	LT1H40A	ON4		
* LD105	V3670200	LED Yellow	LT1H40A	ON5		
* LD106	V3670200	LED Yellow	LT1H40A	ON6		
* LD107	V3670200	LED Yellow	LT1H40A	ON7		
* LD108	V3670200	LED Yellow	LT1H40A	ON8		
* LD109	V3670200	LED Yellow	LT1H40A	ON9		
* LD110	V3670200	LED Yellow	LT1H40A	ON10		
* LD111	V3670200	LED Yellow	LT1H40A	ON11		
* LD112	V3670200	LED Yellow	LT1H40A	ON12		
* LD113	V3670200	LED Yellow	LT1H40A	ON13		
* LD114	V3670200	LED Yellow	LT1H40A	ON14		
* LD115	V3670200	LED Yellow	LT1H40A	ON15		
* LD116	V3670200	LED Yellow	LT1H40A	ON16		
* LD117	V3670200	LED Yellow	LT1H40A	SOLO1		
* LD118	V3670200	LED Yellow	LT1H40A	SOLO2		
* LD119	V3670200	LED Yellow	LT1H40A	SOLO3		
* LD120	V3670200	LED Yellow	LT1H40A	SOLO4		
* LD121	V3670200	LED Yellow	LT1H40A	SOLO5		
* LD122	V3670200	LED Yellow	LT1H40A	SOLO6		
* LD123	V3670200	LED Yellow	LT1H40A	SOLO7		
* LD124	V3670200	LED Yellow	LT1H40A	SOLO8		
* LD125	V3670200	LED Yellow	LT1H40A	SOLO9		
* LD126	V3670200	LED Yellow	LT1H40A	SOLO10		
* LD127	V3670200	LED Yellow	LT1H40A	SOLO11		
* LD128	V3670200	LED Yellow	LT1H40A	SOLO12		
* LD129	V3670200	LED Yellow	LT1H40A	SOLO13		
* LD130	V3670200	LED Yellow	LT1H40A	SOLO14		
* LD131	V3670200	LED Yellow	LT1H40A	SOLO15		
* LD132	V3670200	LED Yellow	LT1H40A	SOLO16		
* LD133	V3670100	LED Yellow/Green	LT1E40A	SEL1		
* LD134	V3670100	LED Yellow/Green	LT1E40A	SEL2		
* LD135	V3670100	LED Yellow/Green	LT1E40A	SEL3		
* LD136	V3670100	LED Yellow/Green	LT1E40A	SEL4		
* LD137	V3670100	LED Yellow/Green	LT1E40A	SEL5		
* LD138	V3670100	LED Yellow/Green	LT1E40A	SEL6		
* LD139	V3670100	LED Yellow/Green	LT1E40A	SEL7		
* LD140	V3670100	LED Yellow/Green	LT1E40A	SEL8		
* LD141	V3670100	LED Yellow/Green	LT1E40A	SEL9		
* LD142	V3670100	LED Yellow/Green	LT1E40A	SEL10		
* LD143	V3670100	LED Yellow/Green	LT1E40A	SEL11		
* LD144	V3670100	LED Yellow/Green	LT1E40A	SEL12		
* LD145	V3670100	LED Yellow/Green	LT1E40A	SEL13		
* LD146	V3670100	LED Yellow/Green	LT1E40A	SEL14		
* LD147	V3670100	LED Yellow/Green	LT1E40A	SEL15		
* LD148	V3670100	LED Yellow/Green	LT1E40A	SEL16		
* LD149	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO1		
* LD150	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO2		

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LD151	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO3		
* LD152	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO4		
* LD153	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO5		
* LD154	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO6		
* LD155	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO7		
* LD156	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO8		
* LD157	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO9		
* LD158	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO10		
* LD159	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO11		
* LD160	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO12		
* LD161	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO13		
* LD162	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO14		
* LD163	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO15		
* LD164	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO16		
* LD181	V3670100	LED Yellow/Green	LT1E40A	AUX1 (AUX SELECT)		
* LD182	V3670100	LED Yellow/Green	LT1E40A	AUX2 (AUX SELECT)		
* LD183	V3670100	LED Yellow/Green	LT1E40A	AUX3 (AUX SELECT)		
* LD184	V3670100	LED Yellow/Green	LT1E40A	AUX4 (AUX SELECT)		
* LD185	V3670100	LED Yellow/Green	LT1E40A	AUX5 (AUX SELECT)		
* LD186	V3670100	LED Yellow/Green	LT1E40A	AUX6 (AUX SELECT)		
* LD187	V3670100	LED Yellow/Green	LT1E40A	AUX7 (AUX SELECT)		
* LD188	V3670100	LED Yellow/Green	LT1E40A	AUX8 (AUX SELECT)		
* LD189	V3670100	LED Yellow/Green	LT1E40A	AUX9 (AUX SELECT)		
* LD190	V3670100	LED Yellow/Green	LT1E40A	AUX10 (AUX SELECT)		
* LD191	V3670100	LED Yellow/Green	LT1E40A	AUX11 (AUX SELECT)		
* LD192	V3670100	LED Yellow/Green	LT1E40A	AUX12 (AUX SELECT)		
* LD193	V3670100	LED Yellow/Green	LT1E40A	MATRIX1 (MATRIX SELECT)		
* LD194	V3670100	LED Yellow/Green	LT1E40A	MATRIX2 (MATRIX SELECT)		
* LD195	V3670100	LED Yellow/Green	LT1E40A	MATRIX3 (MATRIX SELECT)		
* LD196	V3670100	LED Yellow/Green	LT1E40A	MATRIX4 (MATRIX SELECT)		
* LD197	V3670100	LED Yellow/Green	LT1E40A	1 (EFFECTS/PLUG-INS)		
* LD198	V3670100	LED Yellow/Green	LT1E40A	2 (EFFECTS/PLUG-INS)		
* LD199	V3670100	LED Yellow/Green	LT1E40A	3 (EFFECTS/PLUG-INS)		
* LD200	V3670100	LED Yellow/Green	LT1E40A	4 (EFFECTS/PLUG-INS)		
* LD201	V3670100	LED Yellow/Green	LT1E40A	5 (EFFECTS/PLUG-INS)		
* LD202	V3670100	LED Yellow/Green	LT1E40A	6 (EFFECTS/PLUG-INS)		
* LD203	V3670100	LED Yellow/Green	LT1E40A	7 (EFFECTS/PLUG-INS)		
* LD204	V3670100	LED Yellow/Green	LT1E40A	8 (EFFECTS/PLUG-INS)		
* LD205	V3670100	LED Yellow/Green	LT1E40A	INTERNAL EFFECTS		
* LD206	V3670100	LED Yellow/Green	LT1E40A	GRAPHIC EQUALIZERS		
* LD207	V3670100	LED Yellow/Green	LT1E40A	PLUG-INS		
* LD208	V3670100	LED Yellow/Green	LT1E40A	CHANNEL INSERTS		
* LD213	V3670100	LED Yellow/Green	LT1E40A	FADER (FADER MODE)		
* LD214	V3670100	LED Yellow/Green	LT1E40A	AUX/MTRX (FADER MODE)		
* LD215	V3670100	LED Yellow/Green	LT1E40A	PAN (ENCODER MODE)		
* LD216	V3670100	LED Yellow/Green	LT1E40A	AUX/MTRX (ENCODER MODE)		
* LD217	V3670100	LED Yellow/Green	LT1E40A	ASSIGN1 (ENCODER MODE)		
* LD218	V3670100	LED Yellow/Green	LT1E40A	ASSIGN2 (ENCODER MODE)		
* LD219	V3670100	LED Yellow/Green	LT1E40A	ASSIGN3 (ENCODER MODE)		
* LD220	V3670100	LED Yellow/Green	LT1E40A	ASSIGN4 (ENCODER MODE)		
R101	RD154330	Carbon Resistor (chip)	33.0 1/4 J			01
-116	RD154330	Carbon Resistor (chip)	33.0 1/4 J			01
R118	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-134	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R135	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R136	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-140	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R141	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
RA101	RE047100	Resistor Array	10KX4			01
-108	RE047100	Resistor Array	10KX4			01
SW101	VV056000	Tact Switch	SKQNAED010	ON1		01
SW102	VV056000	Tact Switch	SKQNAED010	ON2		01
SW103	VV056000	Tact Switch	SKQNAED010	ON3		01
SW104	VV056000	Tact Switch	SKQNAED010	ON4		01
SW105	VV056000	Tact Switch	SKQNAED010	ON5		01
SW106	VV056000	Tact Switch	SKQNAED010	ON6		01
SW107	VV056000	Tact Switch	SKQNAED010	ON7		01
SW108	VV056000	Tact Switch	SKQNAED010	ON8		01
SW109	VV056000	Tact Switch	SKQNAED010	ON9		01
SW110	VV056000	Tact Switch	SKQNAED010	ON10		01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
SW111	VV056000	Tact Switch	SKQNAED010	ON11		01
SW112	VV056000	Tact Switch	SKQNAED010	ON12		01
SW113	VV056000	Tact Switch	SKQNAED010	ON13		01
SW114	VV056000	Tact Switch	SKQNAED010	ON14		01
SW115	VV056000	Tact Switch	SKQNAED010	ON15		01
SW116	VV056000	Tact Switch	SKQNAED010	ON16		01
SW117	VV056000	Tact Switch	SKQNAED010	SOLO1		01
SW118	VV056000	Tact Switch	SKQNAED010	SOLO2		01
SW119	VV056000	Tact Switch	SKQNAED010	SOLO3		01
SW120	VV056000	Tact Switch	SKQNAED010	SOLO4		01
SW121	VV056000	Tact Switch	SKQNAED010	SOLO5		01
SW122	VV056000	Tact Switch	SKQNAED010	SOLO6		01
SW123	VV056000	Tact Switch	SKQNAED010	SOLO7		01
SW124	VV056000	Tact Switch	SKQNAED010	SOLO8		01
SW125	VV056000	Tact Switch	SKQNAED010	SOLO9		01
SW126	VV056000	Tact Switch	SKQNAED010	SOLO10		01
SW127	VV056000	Tact Switch	SKQNAED010	SOLO11		01
SW128	VV056000	Tact Switch	SKQNAED010	SOLO12		01
SW129	VV056000	Tact Switch	SKQNAED010	SOLO13		01
SW130	VV056000	Tact Switch	SKQNAED010	SOLO14		01
SW131	VV056000	Tact Switch	SKQNAED010	SOLO15		01
SW132	VV056000	Tact Switch	SKQNAED010	SOLO16		01
SW133	VV056000	Tact Switch	SKQNAED010	SEL1		01
SW134	VV056000	Tact Switch	SKQNAED010	SEL2		01
SW135	VV056000	Tact Switch	SKQNAED010	SEL3		01
SW136	VV056000	Tact Switch	SKQNAED010	SEL4		01
SW137	VV056000	Tact Switch	SKQNAED010	SEL5		01
SW138	VV056000	Tact Switch	SKQNAED010	SEL6		01
SW139	VV056000	Tact Switch	SKQNAED010	SEL7		01
SW140	VV056000	Tact Switch	SKQNAED010	SEL8		01
SW141	VV056000	Tact Switch	SKQNAED010	SEL9		01
SW142	VV056000	Tact Switch	SKQNAED010	SEL10		01
SW143	VV056000	Tact Switch	SKQNAED010	SEL11		01
SW144	VV056000	Tact Switch	SKQNAED010	SEL12		01
SW145	VV056000	Tact Switch	SKQNAED010	SEL13		01
SW146	VV056000	Tact Switch	SKQNAED010	SEL14		01
SW147	VV056000	Tact Switch	SKQNAED010	SEL15		01
SW148	VV056000	Tact Switch	SKQNAED010	SEL16		01
SW149	VV056000	Tact Switch	SKQNAED010	AUTO1		01
SW150	VV056000	Tact Switch	SKQNAED010	AUTO2		01
SW151	VV056000	Tact Switch	SKQNAED010	AUTO3		01
SW152	VV056000	Tact Switch	SKQNAED010	AUTO4		01
SW153	VV056000	Tact Switch	SKQNAED010	AUTO5		01
SW154	VV056000	Tact Switch	SKQNAED010	AUTO6		01
SW155	VV056000	Tact Switch	SKQNAED010	AUTO7		01
SW156	VV056000	Tact Switch	SKQNAED010	AUTO8		01
SW157	VV056000	Tact Switch	SKQNAED010	AUTO9		01
SW158	VV056000	Tact Switch	SKQNAED010	AUTO10		01
SW159	VV056000	Tact Switch	SKQNAED010	AUTO11		01
SW160	VV056000	Tact Switch	SKQNAED010	AUTO12		01
SW161	VV056000	Tact Switch	SKQNAED010	AUTO13		01
SW162	VV056000	Tact Switch	SKQNAED010	AUTO14		01
SW163	VV056000	Tact Switch	SKQNAED010	AUTO15		01
SW164	VV056000	Tact Switch	SKQNAED010	AUTO16		01
SW181	VV056000	Tact Switch	SKQNAED010	AUX1 (AUX SELECT)		01
SW182	VV056000	Tact Switch	SKQNAED010	AUX2 (AUX SELECT)		01
SW183	VV056000	Tact Switch	SKQNAED010	AUX3 (AUX SELECT)		01
SW184	VV056000	Tact Switch	SKQNAED010	AUX4 (AUX SELECT)		01
SW185	VV056000	Tact Switch	SKQNAED010	AUX5 (AUX SELECT)		01
SW186	VV056000	Tact Switch	SKQNAED010	AUX6 (AUX SELECT)		01
SW187	VV056000	Tact Switch	SKQNAED010	AUX7 (AUX SELECT)		01
SW188	VV056000	Tact Switch	SKQNAED010	AUX8 (AUX SELECT)		01
SW189	VV056000	Tact Switch	SKQNAED010	AUX9 (AUX SELECT)		01
SW190	VV056000	Tact Switch	SKQNAED010	AUX10 (AUX SELECT)		01
SW191	VV056000	Tact Switch	SKQNAED010	AUX11 (AUX SELECT)		01
SW192	VV056000	Tact Switch	SKQNAED010	AUX12 (AUX SELECT)		01
SW193	VV056000	Tact Switch	SKQNAED010	MATRIX1 (MATRIX SELECT)		01
SW194	VV056000	Tact Switch	SKQNAED010	MATRIX2 (MATRIX SELECT)		01
SW195	VV056000	Tact Switch	SKQNAED010	MATRIX3 (MATRIX SELECT)		01
SW196	VV056000	Tact Switch	SKQNAED010	MATRIX4 (MATRIX SELECT)		01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
SW197	VV056000	Tact Switch	SKQNAED010	1 (EFFECTS/PLUG-INS)		01
SW198	VV056000	Tact Switch	SKQNAED010	2 (EFFECTS/PLUG-INS)		01
SW199	VV056000	Tact Switch	SKQNAED010	3 (EFFECTS/PLUG-INS)		01
SW200	VV056000	Tact Switch	SKQNAED010	4 (EFFECTS/PLUG-INS)		01
SW201	VV056000	Tact Switch	SKQNAED010	5 (EFFECTS/PLUG-INS)		01
SW202	VV056000	Tact Switch	SKQNAED010	6 (EFFECTS/PLUG-INS)		01
SW203	VV056000	Tact Switch	SKQNAED010	7 (EFFECTS/PLUG-INS)		01
SW204	VV056000	Tact Switch	SKQNAED010	8 (EFFECTS/PLUG-INS)		01
SW205	VV056000	Tact Switch	SKQNAED010	INTERNAL EFFECTS		01
SW206	VV056000	Tact Switch	SKQNAED010	GRAPHIC EQUALIZERS		01
SW207	VV056000	Tact Switch	SKQNAED010	PLUG-INS		01
SW208	VV056000	Tact Switch	SKQNAED010	CHANNEL INSERTS		01
SW213	VV056000	Tact Switch	SKQNAED010	FADER (FADER MODE)		01
SW214	VV056000	Tact Switch	SKQNAED010	AUX/MTRX (FADER MODE)		01
SW215	VV056000	Tact Switch	SKQNAED010	PAN (ENCODER MODE)		01
SW216	VV056000	Tact Switch	SKQNAED010	AUX/MTRX (ENCODER MODE)		01
SW217	VV056000	Tact Switch	SKQNAED010	ASSIGN1 (ENCODER MODE)		01
SW218	VV056000	Tact Switch	SKQNAED010	ASSIGN2 (ENCODER MODE)		01
SW219	VV056000	Tact Switch	SKQNAED010	ASSIGN3 (ENCODER MODE)		01
SW220	VV056000	Tact Switch	SKQNAED010	ASSIGN4 (ENCODER MODE)		01
SW221	VV056000	Tact Switch	SKQNAED010	DATA (DISPLAY ACCESS)		01
SW222	VV056000	Tact Switch	SKQNAED010	DIO (DISPLAY ACCESS)		01
SW223	VV056000	Tact Switch	SKQNAED010	SETUP (DISPLAY ACCESS)		01
SW224	VV056000	Tact Switch	SKQNAED010	UTILITY (DISPLAY ACCESS)		01
SW225	VV056000	Tact Switch	SKQNAED010	MIDI (DISPLAY ACCESS)		01
SW226	VV056000	Tact Switch	SKQNAED010	REMOTE (DISPLAY ACCESS)		01
SW227	VV056000	Tact Switch	SKQNAED010	METER (DISPLAY ACCESS)		01
SW228	VV056000	Tact Switch	SKQNAED010	VIEW (DISPLAY ACCESS)		01
SW229	VV056000	Tact Switch	SKQNAED010	F1		01
SW230	VV056000	Tact Switch	SKQNAED010	F2		01
SW231	VV056000	Tact Switch	SKQNAED010	F3		01
SW232	VV056000	Tact Switch	SKQNAED010	F4		01
SW233	VV056000	Tact Switch	SKQNAED010	Cursor Left		01
SW234	VV056000	Tact Switch	SKQNAED010	Cursor Right		01
SW235	VV056000	Tact Switch	SKQNAED010	Cursor Up		01
SW236	VV056000	Tact Switch	SKQNAED010	Cursor Down		01
SW237	VV056000	Tact Switch	SKQNAED010	PAIR (DISPLAY ACCESS)		01
SW238	VV056000	Tact Switch	SKQNAED010	GROUP (DISPLAY ACCESS)		01
SW239	VV056000	Tact Switch	SKQNAED010	INPUT PATCH (DISPLAY ACC)		01
SW240	VV056000	Tact Switch	SKQNAED010	OUTPUT PATCH (DISPLAY ACC)		01
SW241	VV056000	Tact Switch	SKQNAED010	DISPLAY (MATRIX SELECT)		01
SW242	VV056000	Tact Switch	SKQNAED010	DISPLAY (AUX SELECT)		01
SW243	VV056000	Tact Switch	SKQNAED010	DISPLAY (ENCODER MODE)		01
SW244	VV056000	Tact Switch	SKQNAED010	DISPLAY(EFFECTS/PLUG-INS)		01
TA101	VY703900	Transistor Array	TD62309F(EL)			04
TA102	VY703900	Transistor Array	TD62309F(EL)			04
TA103	VY703900	Transistor Array	TD62309F(EL)			04
TA104	VQ248400	Transistor Array	TD62783AF			04
TA105	VQ248400	Transistor Array	TD62783AF			04
* W101	V8392900	Jumper Wire	FVP=2.0C26SB17-100			
* 10	AAX33160	Circuit Board	DM2K PN2 1/2	(V628640)(XZ027B0)		
* 10	AAX33170	Circuit Board	DM2K PN2 2/2	(V628640)(XZ027B0)		
* 10	V6197300	Button Dark Gray	L LENS	1-24,25-48,49-72,73-96, MASTER	5	
* 20	V8486700	Button M_Gray	L LENS	SOLO 17-24	8	
* 30	V8486800	Button Light Gray	L LENS	ON 17-24,ON(STEREO)	9	
* 40	V8486900	Button Blue	L LENS	SEL 17-24,SEL(STEREO)	9	
* 60	V8487100	Button M_Gray	L LENS	AUTO 17-24,AUTO(STEREO), REMOTE 1-4,1-8(ROUTING), FOLLOW PAN,STEREO,DIRECT, Ø,INSERT ON,ON(DELAY), ON 1-4(AUX/MATRIX SEND), GATE ON,COMP ON,L,R,LINK, GRAB,EFFECT,EQ ON	39	
* 100	V8487500	Button M_Gray	S	BANK,GATE/COMP,COPY,PASTE	4	
* 110	V8487600	Button Light Gray	S	DISPLAY	7	
* 130	V6179800	LED Lens	x16P	PAN 1-10		
C302	UF028100	Electrolytic Cap. (chip)	100 10V			01
C303	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C304	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C305	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C306	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-322	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C323	UF037100	Electrolytic Cap. (chip)	10 16V			01
-327	UF037100	Electrolytic Cap. (chip)	10 16V			01
CN301	VO022300	Connector, FFC	52044 40P SE			02
CN302	VI878800	Cable Holder	51048 10P TE			01
CN303	VQ045500	Connector, FFC	52044 26P SE			02
CN304	VO022300	Connector, FFC	52044 40P SE			02
CN305	VK026300	Wire Trap	52151 4P SE			01
D301	VT332900	Diode	1SS355 TE-17			01
-308	VT332900	Diode	1SS355 TE-17			01
D310	VT332900	Diode	1SS355 TE-17			01
-327	VT332900	Diode	1SS355 TE-17			01
D331	VT332900	Diode	1SS355 TE-17			01
-345	VT332900	Diode	1SS355 TE-17			01
D349	VT332900	Diode	1SS355 TE-17			01
-380	VT332900	Diode	1SS355 TE-17			01
D389	VT332900	Diode	1SS355 TE-17			01
-396	VT332900	Diode	1SS355 TE-17			01
D405	VT332900	Diode	1SS355 TE-17			01
-407	VT332900	Diode	1SS355 TE-17			01
D409	VT332900	Diode	1SS355 TE-17			01
D410	VT332900	Diode	1SS355 TE-17			01
D413	VT332900	Diode	1SS355 TE-17			01
-419	VT332900	Diode	1SS355 TE-17			01
D423	VT332900	Diode	1SS355 TE-17			01
-427	VT332900	Diode	1SS355 TE-17			01
* EC301	V3750900	Rotary Encoder	EC12E2444400	CH17		
* EC302	V3750900	Rotary Encoder	EC12E2444400	CH18		
* EC303	V3750900	Rotary Encoder	EC12E2444400	CH19		
* EC304	V3750900	Rotary Encoder	EC12E2444400	CH20		
* EC305	V3750900	Rotary Encoder	EC12E2444400	CH21		
* EC306	V3750900	Rotary Encoder	EC12E2444400	CH22		
* EC307	V3750900	Rotary Encoder	EC12E2444400	CH23		
* EC308	V3750900	Rotary Encoder	EC12E2444400	CH24		
* EC309	V3750700	Rotary Encoder	EC12E2410401	GAIN (EQUALIZER LOW)		
* EC310	V3750700	Rotary Encoder	EC12E2410401	GAIN (EQUALIZER LOW-MID)		
* EC311	V3750700	Rotary Encoder	EC12E2410401	GAIN (EQUALIZER HIGH-MID)		
* EC312	V3750700	Rotary Encoder	EC12E2410401	GAIN (EQUALIZER HIGH)		
* EC313	V3750700	Rotary Encoder	EC12E2410401	ATT. (EQUALIZER)		
* EC314	V3750700	Rotary Encoder	EC12E2410401	PAN/SURROUND		
* EC315	V3750900	Rotary Encoder	EC12E2444400	F/Q (EQUALIZER LOW)		
* EC316	V3750900	Rotary Encoder	EC12E2444400	F/Q (EQUALIZER LOW-MID)		
* EC317	V3750900	Rotary Encoder	EC12E2444400	F/Q (EQUALIZER HIGH-MID)		
* EC318	V3750900	Rotary Encoder	EC12E2444400	F/Q (EQUALIZER HIGH)		
* EC319	V3750900	Rotary Encoder	EC12E2444400	MIX/FB (DELAY)		
* EC320	V3750700	Rotary Encoder	EC12E2410401	THRESHOLD (DYNAMICS)		
* EC321	V3750700	Rotary Encoder	EC12E2410401	RANGE/RATIO (DYNAMICS)		
* EC322	V3750700	Rotary Encoder	EC12E2410401	ATTACK (DYNAMICS)		
* EC323	V3750700	Rotary Encoder	EC12E2410401	DECAY/RELEASE (DYNAMICS)		
* EC324	V3750700	Rotary Encoder	EC12E2410401	HOLD/GAIN (DYNAMICS)		
* EC325	V3750900	Rotary Encoder	EC12E2444400	LEVEL1 (AUX/MATRIX SEND)		
* EC326	V3750900	Rotary Encoder	EC12E2444400	LEVEL2 (AUX/MATRIX SEND)		
* EC327	V3750900	Rotary Encoder	EC12E2444400	LEVEL3 (AUX/MATRIX SEND)		
* EC328	V3750900	Rotary Encoder	EC12E2444400	LEVEL4 (AUX/MATRIX SEND)		
* EC329	V3750700	Rotary Encoder	EC12E2410401	TIME (DELAY)		
EM301	FZ006970	LC Filter	MTY223NBTBM			02
EM302	FZ006970	LC Filter	MTY223NBTBM			02
IC301	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC302	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC303	IS016500	IC	HD74LV165AFPEL	REGISTER		
* IC304	IS016500	IC	HD74LV165AFPEL	REGISTER		
* IC305	IS059500	IC	HD74LV595AFPEL	REGISTER		
* -308	IS059500	IC	HD74LV595AFPEL	REGISTER		
IC309	XT163A00	IC	TC74HC238AF	TRANSCEIVER		03
IC310	XT163A00	IC	TC74HC238AF	TRANSCEIVER		03
* LD301	V3670200	LED Yellow	LT1H40A	ON17		
* LD302	V3670200	LED Yellow	LT1H40A	ON18		

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LD303	V3670200	LED Yellow	LT1H40A	ON19		
* LD304	V3670200	LED Yellow	LT1H40A	ON20		
* LD305	V3670200	LED Yellow	LT1H40A	ON21		
* LD306	V3670200	LED Yellow	LT1H40A	ON22		
* LD307	V3670200	LED Yellow	LT1H40A	ON23		
* LD308	V3670200	LED Yellow	LT1H40A	ON24		
* LD310	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO (STEREO)		
* LD311	V3670100	LED Yellow/Green	LT1E40A	SEL (STEREO)		
* LD312	V3670200	LED Yellow	LT1H40A	ON (STEREO)		
* LD313	V3670100	LED Yellow/Green	LT1E40A	REMOTE1 (LAYER)		
* LD314	V3670100	LED Yellow/Green	LT1E40A	REMOTE2 (LAYER)		
* LD315	V3670100	LED Yellow/Green	LT1E40A	REMOTE3 (LAYER)		
* LD316	V3670100	LED Yellow/Green	LT1E40A	REMOTE4 (LAYER)		
* LD317	V3670200	LED Yellow	LT1H40A	SOLO17		
* LD318	V3670200	LED Yellow	LT1H40A	SOLO18		
* LD319	V3670200	LED Yellow	LT1H40A	SOLO19		
* LD320	V3670200	LED Yellow	LT1H40A	SOLO20		
* LD321	V3670200	LED Yellow	LT1H40A	SOLO21		
* LD322	V3670200	LED Yellow	LT1H40A	SOLO22		
* LD323	V3670200	LED Yellow	LT1H40A	SOLO23		
* LD324	V3670200	LED Yellow	LT1H40A	SOLO24		
* LD325	V3670200	LED Yellow	LT1H40A	GATE ON (DYNAMICS)		
* LD326	V3670200	LED Yellow	LT1H40A	COMP ON (DYNAMICS)		
* LD328	V3670200	LED Yellow	LT1H40A	GATE (DYNAMICS)		
* LD329	V3670200	LED Yellow	LT1H40A	COMP (DYNAMICS)		
* LD331	V3670200	LED Yellow	LT1H40A	∅ (PHASE/INSERT)		
* LD332	V3670200	LED Yellow	LT1H40A	INSERT ON (PHASE/INSERT)		
* LD333	V3670100	LED Yellow/Green	LT1E40A	SEL17		
* LD334	V3670100	LED Yellow/Green	LT1E40A	SEL18		
* LD335	V3670100	LED Yellow/Green	LT1E40A	SEL19		
* LD336	V3670100	LED Yellow/Green	LT1E40A	SEL20		
* LD337	V3670100	LED Yellow/Green	LT1E40A	SEL21		
* LD338	V3670100	LED Yellow/Green	LT1E40A	SEL22		
* LD339	V3670100	LED Yellow/Green	LT1E40A	SEL23		
* LD340	V3670100	LED Yellow/Green	LT1E40A	SEL24		
* LD341	V3670200	LED Yellow	LT1H40A	ON1 (AUX/MATRIX SEND)		
* LD342	V3670200	LED Yellow	LT1H40A	ON2 (AUX/MATRIX SEND)		
* LD343	V3670200	LED Yellow	LT1H40A	ON3 (AUX/MATRIX SEND)		
* LD344	V3670200	LED Yellow	LT1H40A	ON4 (AUX/MATRIX SEND)		
* LD346	V3670200	LED Yellow	LT1H40A	AUX1/MATRIX1		
* LD347	V3670200	LED Yellow	LT1H40A	AUX5 (AUX/MATRIX SEND)		
* LD348	V3670200	LED Yellow	LT1H40A	AUX9 (AUX/MATRIX SEND)		
* LD349	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO17		
* LD350	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO18		
* LD351	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO19		
* LD352	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO20		
* LD353	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO21		
* LD354	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO22		
* LD355	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO23		
* LD356	V7647400	LED Yellow-Green/Red	LT1ED67A	AUTO24		
* LD357	V3670200	LED Yellow	LT1H40A	STEREO (ROUTING)		
* LD358	V3670200	LED Yellow	LT1H40A	DIRECT (ROUTING)		
* LD359	V3670200	LED Yellow	LT1H40A	FOLLOW PAN (ROUTING)		
* LD360	V3670100	LED Yellow/Green	LT1E40A	1-24 (LAYER)		
* LD361	V3670100	LED Yellow/Green	LT1E40A	25-48 (LAYER)		
* LD362	V3670100	LED Yellow/Green	LT1E40A	49-72 (LAYER)		
* LD363	V3670100	LED Yellow/Green	LT1E40A	73-96 (LAYER)		
* LD364	V3670100	LED Yellow/Green	LT1E40A	MASTER (LAYER)		
* LD373	V3670200	LED Yellow	LT1H40A	1 (ROUTING)		
* LD374	V3670200	LED Yellow	LT1H40A	2 (ROUTING)		
* LD375	V3670200	LED Yellow	LT1H40A	3 (ROUTING)		
* LD376	V3670200	LED Yellow	LT1H40A	4 (ROUTING)		
* LD377	V3670200	LED Yellow	LT1H40A	5 (ROUTING)		
* LD378	V3670200	LED Yellow	LT1H40A	6 (ROUTING)		
* LD379	V3670200	LED Yellow	LT1H40A	7 (ROUTING)		
* LD380	V3670200	LED Yellow	LT1H40A	8 (ROUTING)		
* LD381	V3670200	LED Yellow	LT1H40A	dB (EQUALIZER LOW)		
* LD382	V3670200	LED Yellow	LT1H40A	dB (EQUALIZER LOW-MID)		
* LD383	V3670200	LED Yellow	LT1H40A	dB (EQUALIZER HIGH-MID)		
* LD384	V3670200	LED Yellow	LT1H40A	dB (EQUALIZER HIGH)		

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LD385	V3670200	LED Yellow	LT1H40A	Hz (EQUALIZER LOW)		
* LD386	V3670200	LED Yellow	LT1H40A	Hz (EQUALIZER LOW-MID)		
* LD387	V3670200	LED Yellow	LT1H40A	Hz (EQUALIZER HIGH-MID)		
* LD388	V3670200	LED Yellow	LT1H40A	Hz (EQUALIZER HIGH)		
* LD389	V3670200	LED Yellow	LT1H40A	kHz (EQUALIZER LOW)		
* LD390	V3670200	LED Yellow	LT1H40A	kHz (EQUALIZER LOW-MID)		
* LD391	V3670200	LED Yellow	LT1H40A	kHz (EQUALIZER HIGH-MID)		
* LD392	V3670200	LED Yellow	LT1H40A	kHz (EQUALIZER HIGH)		
* LD397	V3670200	LED Yellow	LT1H40A	FREQ. (EQUALIZER LOW)		
* LD398	V3670200	LED Yellow	LT1H40A	FREQ. (EQUALIZER LOW-MID)		
* LD399	V3670200	LED Yellow	LT1H40A	FREQ. (EQUALIZER HIGH-MID)		
* LD400	V3670200	LED Yellow	LT1H40A	FREQ. (EQUALIZER HIGH)		
* LD401	V3670200	LED Yellow	LT1H40A	Q (EQUALIZER LOW)		
* LD402	V3670200	LED Yellow	LT1H40A	Q (EQUALIZER LOW-MID)		
* LD403	V3670200	LED Yellow	LT1H40A	Q (EQUALIZER HIGH-MID)		
* LD404	V3670200	LED Yellow	LT1H40A	Q (EQUALIZER HIGH)		
* LD405	V3670200	LED Yellow	LT1H40A	EQ ON (EQUALIZER)		
* LD409	V3670200	LED Yellow	LT1H40A	ON (DELAY)		
* LD411	V3670200	LED Yellow	LT1H40A	MIX (DELAY)		
* LD412	V3670200	LED Yellow	LT1H40A	FB (DELAY)		
* LD413	V3670200	LED Yellow	LT1H40A	PAN1 (PAN/SURROUND)		
* LD414	V3670200	LED Yellow	LT1H40A	PAN2 (PAN/SURROUND)		
* LD415	V3670200	LED Yellow	LT1H40A	PAN3 (PAN/SURROUND)		
* LD416	V3670200	LED Yellow	LT1H40A	PAN4 (PAN/SURROUND)		
* LD417	V3670200	LED Yellow	LT1H40A	PAN5 (PAN/SURROUND)		
* LD418	V3670200	LED Yellow	LT1H40A	PAN6 (PAN/SURROUND)		
* LD419	V3670200	LED Yellow	LT1H40A	PAN7 (PAN/SURROUND)		
* LD420	V3670200	LED Yellow	LT1H40A	PAN8 (PAN/SURROUND)		
* LD421	V3670200	LED Yellow	LT1H40A	PAN9 (PAN/SURROUND)		
* LD422	V3670200	LED Yellow	LT1H40A	PAN10 (PAN/SURROUND)		
* LD423	V3670200	LED Yellow	LT1H40A	L (PAN/SURROUND)		
* LD424	V3670200	LED Yellow	LT1H40A	R (PAN/SURROUND)		
* LD425	V3670200	LED Yellow	LT1H40A	LINK (PAN/SURROUND)		
* LD426	V3670200	LED Yellow	LT1H40A	GRAB (PAN/SURROUND)		
* LD427	V3670200	LED Yellow	LT1H40A	EFFECT (PAN/SURROUND)		
* LD429	V3673800	LED Display	7 SEG.	EQUALIZER LOW		
* LD430	V3673800	LED Display	7 SEG.	EQUALIZER LOW-MID		
* LD431	V3673800	LED Display	7 SEG.	EQUALIZER HIGH-MID		
* LD432	V3673800	LED Display	7 SEG.	EQUALIZER HIGH		
R301	RD154330	Carbon Resistor (chip)	33.0 1/4 J			01
-332	RD154330	Carbon Resistor (chip)	33.0 1/4 J			01
R334	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-361	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R362	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R363	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-368	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R369	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
RA301	RE047100	Resistor Array	10KX4			01
-306	RE047100	Resistor Array	10KX4			01
SW301	VV056000	Tact Switch	SKQNAED010	ON17		01
SW302	VV056000	Tact Switch	SKQNAED010	ON18		01
SW303	VV056000	Tact Switch	SKQNAED010	ON19		01
SW304	VV056000	Tact Switch	SKQNAED010	ON20		01
SW305	VV056000	Tact Switch	SKQNAED010	ON21		01
SW306	VV056000	Tact Switch	SKQNAED010	ON22		01
SW307	VV056000	Tact Switch	SKQNAED010	ON23		01
SW308	VV056000	Tact Switch	SKQNAED010	ON24		01
SW310	VV056000	Tact Switch	SKQNAED010	AUTO (STEREO)		01
SW311	VV056000	Tact Switch	SKQNAED010	SEL (STEREO)		01
SW312	VV056000	Tact Switch	SKQNAED010	ON (STEREO)		01
SW313	VV056000	Tact Switch	SKQNAED010	REMOTE1 (LAYER)		01
SW314	VV056000	Tact Switch	SKQNAED010	REMOTE2 (LAYER)		01
SW315	VV056000	Tact Switch	SKQNAED010	REMOTE3 (LAYER)		01
SW316	VV056000	Tact Switch	SKQNAED010	REMOTE4 (LAYER)		01
SW317	VV056000	Tact Switch	SKQNAED010	SOLO17		01
SW318	VV056000	Tact Switch	SKQNAED010	SOLO18		01
SW319	VV056000	Tact Switch	SKQNAED010	SOLO19		01
SW320	VV056000	Tact Switch	SKQNAED010	SOLO20		01
SW321	VV056000	Tact Switch	SKQNAED010	SOLO21		01
SW322	VV056000	Tact Switch	SKQNAED010	SOLO22		01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
SW323	VV056000	Tact Switch	SKQNAED010	SOLO23		01
SW324	VV056000	Tact Switch	SKQNAED010	SOLO24		01
SW325	VV056000	Tact Switch	SKQNAED010	GATE ON (DYNAMICS)		01
SW326	VV056000	Tact Switch	SKQNAED010	COMP ON (DYNAMICS)		01
SW327	VV056000	Tact Switch	SKQNAED010	GATE/COMP (DYNAMICS)		01
SW331	VV056000	Tact Switch	SKQNAED010	∅ (PHASE/INSERT)		01
SW332	VV056000	Tact Switch	SKQNAED010	INSERT ON (PHASE/INSERT)		01
SW333	VV056000	Tact Switch	SKQNAED010	SEL17		01
SW334	VV056000	Tact Switch	SKQNAED010	SEL18		01
SW335	VV056000	Tact Switch	SKQNAED010	SEL19		01
SW336	VV056000	Tact Switch	SKQNAED010	SEL20		01
SW337	VV056000	Tact Switch	SKQNAED010	SEL21		01
SW338	VV056000	Tact Switch	SKQNAED010	SEL22		01
SW339	VV056000	Tact Switch	SKQNAED010	SEL23		01
SW340	VV056000	Tact Switch	SKQNAED010	SEL24		01
SW341	VV056000	Tact Switch	SKQNAED010	ON1 (AUX/MATRIX SEND)		01
SW342	VV056000	Tact Switch	SKQNAED010	ON2 (AUX/MATRIX SEND)		01
SW343	VV056000	Tact Switch	SKQNAED010	ON3 (AUX/MATRIX SEND)		01
SW344	VV056000	Tact Switch	SKQNAED010	ON4 (AUX/MATRIX SEND)		01
SW345	VV056000	Tact Switch	SKQNAED010	BANK (AUX/MATRIX SEND)		01
SW349	VV056000	Tact Switch	SKQNAED010	AUTO17		01
SW350	VV056000	Tact Switch	SKQNAED010	AUTO18		01
SW351	VV056000	Tact Switch	SKQNAED010	AUTO19		01
SW352	VV056000	Tact Switch	SKQNAED010	AUTO20		01
SW353	VV056000	Tact Switch	SKQNAED010	AUTO21		01
SW354	VV056000	Tact Switch	SKQNAED010	AUTO22		01
SW355	VV056000	Tact Switch	SKQNAED010	AUTO23		01
SW356	VV056000	Tact Switch	SKQNAED010	AUTO24		01
SW357	VV056000	Tact Switch	SKQNAED010	STEREO (ROUTING)		01
SW358	VV056000	Tact Switch	SKQNAED010	DIRECT (ROUTING)		01
SW359	VV056000	Tact Switch	SKQNAED010	FOLLOW PAN (ROUTING)		01
SW360	VV056000	Tact Switch	SKQNAED010	1-24 (LAYER)		01
SW361	VV056000	Tact Switch	SKQNAED010	25-48 (LAYER)		01
SW362	VV056000	Tact Switch	SKQNAED010	49-72 (LAYER)		01
SW363	VV056000	Tact Switch	SKQNAED010	73-96 (LAYER)		01
SW364	VV056000	Tact Switch	SKQNAED010	MASTER (LAYER)		01
SW373	VV056000	Tact Switch	SKQNAED010	1 (ROUTING)		01
SW374	VV056000	Tact Switch	SKQNAED010	2 (ROUTING)		01
SW375	VV056000	Tact Switch	SKQNAED010	3 (ROUTING)		01
SW376	VV056000	Tact Switch	SKQNAED010	4 (ROUTING)		01
SW377	VV056000	Tact Switch	SKQNAED010	5 (ROUTING)		01
SW378	VV056000	Tact Switch	SKQNAED010	6 (ROUTING)		01
SW379	VV056000	Tact Switch	SKQNAED010	7 (ROUTING)		01
SW380	VV056000	Tact Switch	SKQNAED010	8 (ROUTING)		01
SW405	VV056000	Tact Switch	SKQNAED010	EQ ON (EQUALIZER)		01
SW406	VV056000	Tact Switch	SKQNAED010	COPY (CHANNEL)		01
SW407	VV056000	Tact Switch	SKQNAED010	PASTE (CHANNEL)		01
SW409	VV056000	Tact Switch	SKQNAED010	ON (DELAY)		01
SW413	VV056000	Tact Switch	SKQNAED010	DISPLAY (ROUTING)		01
SW414	VV056000	Tact Switch	SKQNAED010	DISPLAY (DYNAMICS)		01
SW415	VV056000	Tact Switch	SKQNAED010	DISPLAY (PAN/SURROUND)		01
SW416	VV056000	Tact Switch	SKQNAED010	DISPLAY (EQUALIZER)		01
SW417	VV056000	Tact Switch	SKQNAED010	DISPLAY (PHASE/INSERT)		01
SW418	VV056000	Tact Switch	SKQNAED010	DISPLAY (AUX/MATRIX SEND)		01
SW419	VV056000	Tact Switch	SKQNAED010	DISPLAY (DELAY)		01
SW423	VV056000	Tact Switch	SKQNAED010	L (PAN/SURROUND)		01
SW424	VV056000	Tact Switch	SKQNAED010	R (PAN/SURROUND)		01
SW425	VV056000	Tact Switch	SKQNAED010	LINK (PAN/SURROUND)		01
SW426	VV056000	Tact Switch	SKQNAED010	GRAB (PAN/SURROUND)		01
SW427	VV056000	Tact Switch	SKQNAED010	EFFECT (PAN/SURROUND)		01
TA301	VQ248400	Transistor Array	TD62783AF			04
-304	VQ248400	Transistor Array	TD62783AF			04
TA305	VY703900	Transistor Array	TD62309F(EL)			04
-309	VY703900	Transistor Array	TD62309F(EL)			04
* VR301	V3674400	Stick Controller		JOY STICK		
* W302	V8391900	Jumper Wire	FVP=2.0C26SB10-600			
* 50	V6286500	Circuit Board	DM2K PN3	(XZ028B0)		
* 60	V6197400	Button Dark Gray	LENS	1-24(TRACK ARMING),MASTER	25	
* 60	V8487100	Button M. Gray	LENS	A-D(TRACK ARMING GROUP),	74	

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
				ENABLE,ABORT/UNDO,RETURN,RELATIVE,TOUCH SENSE,1-16(USER DEFINED KEYS),OVERWRITE,LOCATOR,STUDIO,CONTROL ROOM,SLATE		
* 80	V8487300	Button Red	LENS	REC,AUTO-REC	2	
* 100	V8487500	Button M_Gray	S	ALL CLEAR,CLEAR	2	
* 110	V8487600	Button Light Gray	S	DISPLAY	6	
* 140	V4166800	Button Light Gray	LENS CURSOR	TALKBACK		
* 160	V8488000	Button M_Gray	CURSOR	STORE,RECALL	2	
* 260	V8489600	Button M_Gray	CURSOR	Cursor Up		
* 270	V8489700	Button M_Gray	CURSOR	Cursor Down		
C502	UF028100	Electrolytic Cap. (chip)	100 10V			01
C503	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C504	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-512	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C513	UF037100	Electrolytic Cap. (chip)	10 16V			01
-515	UF037100	Electrolytic Cap. (chip)	10 16V			01
C516	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-518	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C520	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-523	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C600	UF037100	Electrolytic Cap. (chip)	10 16V			01
CN501	VQ045500	Connector, FFC	52044 26P SE			02
CN502	VK026900	Wire Trap	52151 10P SE			01
CN503	VQ045500	Connector, FFC	52044 26P SE			02
CN504	VI878200	Cable Holder	51048 4P TE			01
CN505	VB390200	Connector Base Post	PH 6P TE			01
CN506	VI878700	Cable Holder	51048 9P TE			01
D501	VT332900	Diode	1SS355 TE-17			01
-529	VT332900	Diode	1SS355 TE-17			01
D531	VT332900	Diode	1SS355 TE-17			01
D533	VT332900	Diode	1SS355 TE-17			01
-544	VT332900	Diode	1SS355 TE-17			01
D546	VT332900	Diode	1SS355 TE-17			01
D549	VT332900	Diode	1SS355 TE-17			01
-563	VT332900	Diode	1SS355 TE-17			01
D565	VT332900	Diode	1SS355 TE-17			01
-571	VT332900	Diode	1SS355 TE-17			01
D573	VT332900	Diode	1SS355 TE-17			01
-579	VT332900	Diode	1SS355 TE-17			01
D581	VT332900	Diode	1SS355 TE-17			01
-618	VT332900	Diode	1SS355 TE-17			01
D621	VT332900	Diode	1SS355 TE-17			01
-624	VT332900	Diode	1SS355 TE-17			01
EM501	FZ006970	LC Filter	MTY223NBTBM			02
-503	FZ006970	LC Filter	MTY223NBTBM			02
IC501	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC502	XT163A00	IC	TC74HC238AF	TRANSCEIVER		03
* IC503	IS059500	IC	HD74LV595AFPEL	REGISTER		
* -506	IS059500	IC	HD74LV595AFPEL	REGISTER		
* IC507	IS016500	IC	HD74LV165AFPEL	REGISTER		
* -509	IS016500	IC	HD74LV165AFPEL	REGISTER		
IC510	XP004A00	IC	TC7W04FU	INVERTER		02
* LD501	V3670000	LED Red	LT1D40A	1 (TRACK ARMING)		
* LD502	V3670000	LED Red	LT1D40A	2 (TRACK ARMING)		
* LD503	V3670000	LED Red	LT1D40A	3 (TRACK ARMING)		
* LD504	V3670000	LED Red	LT1D40A	4 (TRACK ARMING)		
* LD505	V3670000	LED Red	LT1D40A	5 (TRACK ARMING)		
* LD506	V3670000	LED Red	LT1D40A	6 (TRACK ARMING)		
* LD507	V3670000	LED Red	LT1D40A	7 (TRACK ARMING)		
* LD508	V3670000	LED Red	LT1D40A	8 (TRACK ARMING)		
* LD509	V3670000	LED Red	LT1D40A	9 (TRACK ARMING)		
* LD510	V3670000	LED Red	LT1D40A	10 (TRACK ARMING)		
* LD511	V3670000	LED Red	LT1D40A	11 (TRACK ARMING)		
* LD512	V3670000	LED Red	LT1D40A	12 (TRACK ARMING)		
* LD513	V3670000	LED Red	LT1D40A	13 (TRACK ARMING)		
* LD514	V3670000	LED Red	LT1D40A	14 (TRACK ARMING)		
* LD515	V3670000	LED Red	LT1D40A	15 (TRACK ARMING)		
* LD516	V3670000	LED Red	LT1D40A	16 (TRACK ARMING)		

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
* LD517	V3670000	LED Red	LT1D40A	17	(TRACK ARMING)
* LD518	V3670000	LED Red	LT1D40A	18	(TRACK ARMING)
* LD519	V3670000	LED Red	LT1D40A	19	(TRACK ARMING)
* LD520	V3670000	LED Red	LT1D40A	20	(TRACK ARMING)
* LD521	V3670000	LED Red	LT1D40A	21	(TRACK ARMING)
* LD522	V3670000	LED Red	LT1D40A	22	(TRACK ARMING)
* LD523	V3670000	LED Red	LT1D40A	23	(TRACK ARMING)
* LD524	V3670000	LED Red	LT1D40A	24	(TRACK ARMING)
* LD525	V3670200	LED Yellow	LT1H40A	A	(TRACK ARMING GROUP)
* LD526	V3670200	LED Yellow	LT1H40A	B	(TRACK ARMING GROUP)
* LD527	V3670200	LED Yellow	LT1H40A	C	(TRACK ARMING GROUP)
* LD528	V3670200	LED Yellow	LT1H40A	D	(TRACK ARMING GROUP)
* LD531	V3670000	LED Red	LT1D40A	MASTER	(TRACK ARMING)
* LD533	V3670200	LED Yellow	LT1H40A	1	(LOCATE MEMORY)
* LD534	V3670200	LED Yellow	LT1H40A	2	(LOCATE MEMORY)
* LD535	V3670200	LED Yellow	LT1H40A	3	(LOCATE MEMORY)
* LD536	V3670200	LED Yellow	LT1H40A	4	(LOCATE MEMORY)
* LD537	V3670200	LED Yellow	LT1H40A	5	(LOCATE MEMORY)
* LD538	V3670200	LED Yellow	LT1H40A	6	(LOCATE MEMORY)
* LD539	V3670200	LED Yellow	LT1H40A	7	(LOCATE MEMORY)
* LD540	V3670200	LED Yellow	LT1H40A	8	(LOCATE MEMORY)
* LD541	V3670200	LED Yellow	LT1H40A	CONTROL ROOM	(MONITOR)
* LD542	V3670200	LED Yellow	LT1H40A	STEREO	(MONITOR)
* LD543	V3670200	LED Yellow	LT1H40A	AUX11	(MONITOR)
* LD544	V3670200	LED Yellow	LT1H40A	AUX12	(MONITOR)
* LD545	V3670000	LED Red	LT1D40A	SOLO	(MONITOR)
* LD549	V3670200	LED Yellow	LT1H40A	AUDITION	(LOCATOR)
* LD550	V3670200	LED Yellow	LT1H40A	PRE	(LOCATOR)
* LD551	V3670200	LED Yellow	LT1H40A	IN	(LOCATOR)
* LD552	V3670200	LED Yellow	LT1H40A	OUT	(LOCATOR)
* LD553	V3670200	LED Yellow	LT1H40A	POST	(LOCATOR)
* LD554	V3670200	LED Yellow	LT1H40A	SET	(LOCATOR)
* LD555	V3670200	LED Yellow	LT1H40A	MTR	(LOCATOR)
* LD556	V3670200	LED Yellow	LT1H40A	MASTER	(LOCATOR)
* LD557	V3670200	LED Yellow	LT1H40A	RETURN TO ZERO	(LOCATOR)
* LD558	V3670200	LED Yellow	LT1H40A	END	(LOCATOR)
* LD559	V3670200	LED Yellow	LT1H40A	ONLINE	(LOCATOR)
* LD560	V3670200	LED Yellow	LT1H40A	LOOP	(LOCATOR)
* LD561	V3670200	LED Yellow	LT1H40A	QUICK PUNCH	(LOCATOR)
* LD562	V3670200	LED Yellow	LT1H40A	ROLL BACK	(LOCATOR)
* LD563	V3670200	LED Yellow	LT1H40A	REHEARSAL	(LOCATOR)
* LD565	V3670200	LED Yellow	LT1H40A	ENABLE	(AUTOMIX)
* LD566	V3670000	LED Red	LT1D40A	REC	(AUTOMIX)
* LD567	V3670200	LED Yellow	LT1H40A	ABORT/UNDO	(AUTOMIX)
* LD568	V3670000	LED Red	LT1D40A	AUTO-REC	(AUTOMIX)
* LD569	V3670200	LED Yellow	LT1H40A	RETURN	(AUTOMIX)
* LD570	V3670200	LED Yellow	LT1H40A	RELATIVE	(AUTOMIX)
* LD571	V3670200	LED Yellow	LT1H40A	TOUCH SENSE	(AUTOMIX)
* LD573	V3670200	LED Yellow	LT1H40A	FADER	(AUTOMIX)
* LD574	V3670200	LED Yellow	LT1H40A	ON	(AUTOMIX)
* LD575	V3670200	LED Yellow	LT1H40A	PAN	(AUTOMIX)
* LD576	V3670200	LED Yellow	LT1H40A	SURROUND	(AUTOMIX)
* LD577	V3670200	LED Yellow	LT1H40A	AUX	(AUTOMIX)
* LD578	V3670200	LED Yellow	LT1H40A	AUX ON	(AUTOMIX)
* LD579	V3670200	LED Yellow	LT1H40A	EQ	(AUTOMIX)
* LD581	V3670200	LED Yellow	LT1H40A	1	(USER DEFINED KEYS)
* LD582	V3670200	LED Yellow	LT1H40A	2	(USER DEFINED KEYS)
* LD583	V3670200	LED Yellow	LT1H40A	3	(USER DEFINED KEYS)
* LD584	V3670200	LED Yellow	LT1H40A	4	(USER DEFINED KEYS)
* LD585	V3670200	LED Yellow	LT1H40A	5	(USER DEFINED KEYS)
* LD586	V3670200	LED Yellow	LT1H40A	6	(USER DEFINED KEYS)
* LD587	V3670200	LED Yellow	LT1H40A	7	(USER DEFINED KEYS)
* LD588	V3670200	LED Yellow	LT1H40A	8	(USER DEFINED KEYS)
* LD589	V3670200	LED Yellow	LT1H40A	9	(USER DEFINED KEYS)
* LD590	V3670200	LED Yellow	LT1H40A	10	(USER DEFINED KEYS)
* LD591	V3670200	LED Yellow	LT1H40A	11	(USER DEFINED KEYS)
* LD592	V3670200	LED Yellow	LT1H40A	12	(USER DEFINED KEYS)
* LD593	V3670200	LED Yellow	LT1H40A	13	(USER DEFINED KEYS)
* LD594	V3670200	LED Yellow	LT1H40A	14	(USER DEFINED KEYS)
* LD595	V3670200	LED Yellow	LT1H40A	15	(USER DEFINED KEYS)

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LD596	V3670200	LED Yellow	LT1H40A	16 (USER DEFINED KEYS)		
* LD597	V3670200	LED Yellow	LT1H40A	2TR D1 (MONITOR)		
* LD598	V3670200	LED Yellow	LT1H40A	2TR D2 (MONITOR)		
* LD599	V3670200	LED Yellow	LT1H40A	2TR D3 (MONITOR)		
* LD600	V3670200	LED Yellow	LT1H40A	2TR A1 (MONITOR)		
* LD601	V3670200	LED Yellow	LT1H40A	2TR A2 (MONITOR)		
* LD602	V3670200	LED Yellow	LT1H40A	STEREO (MONITOR)		
* LD603	V3670200	LED Yellow	LT1H40A	ASSIGN1 (MONITOR)		
* LD604	V3670200	LED Yellow	LT1H40A	ASSIGN2 (MONITOR)		
* LD605	V3670200	LED Yellow	LT1H40A	BUS (MONITOR)		
* LD606	V3670200	LED Yellow	LT1H40A	ASSIGN1 (MONITOR)		
* LD607	V3670200	LED Yellow	LT1H40A	ASSIGN2 (MONITOR)		
* LD608	V3670200	LED Yellow	LT1H40A	MONO (MONITOR)		
* LD609	V3670200	LED Yellow	LT1H40A	DIMMER (MONITOR)		
* LD610	V3670200	LED Yellow	LT1H40A	SMALL (MONITOR)		
* LD611	V3670200	LED Yellow	LT1H40A	SLATE (MONITOR)		
* LD612	V3670200	LED Yellow	LT1H40A	TALKBACK (MONITOR)		
* LD629	V3674300	LED Display	7 SEG.	SCENE MEMORY		
R501	RD154330	Carbon Resistor (chip)	33.0 1/4 J			01
-516	RD154330	Carbon Resistor (chip)	33.0 1/4 J			01
R519	RD154330	Carbon Resistor (chip)	33.0 1/4 J			01
R520	RD154330	Carbon Resistor (chip)	33.0 1/4 J			01
R527	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-544	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R545	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R546	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-555	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R612	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
RA501	RE047100	Resistor Array	10KX4			01
-506	RE047100	Resistor Array	10KX4			01
SW501	VV056000	Tact Switch	SKQNAED010	1 (TRACK ARMING)		01
SW502	VV056000	Tact Switch	SKQNAED010	2 (TRACK ARMING)		01
SW503	VV056000	Tact Switch	SKQNAED010	3 (TRACK ARMING)		01
SW504	VV056000	Tact Switch	SKQNAED010	4 (TRACK ARMING)		01
SW505	VV056000	Tact Switch	SKQNAED010	5 (TRACK ARMING)		01
SW506	VV056000	Tact Switch	SKQNAED010	6 (TRACK ARMING)		01
SW507	VV056000	Tact Switch	SKQNAED010	7 (TRACK ARMING)		01
SW508	VV056000	Tact Switch	SKQNAED010	8 (TRACK ARMING)		01
SW509	VV056000	Tact Switch	SKQNAED010	9 (TRACK ARMING)		01
SW510	VV056000	Tact Switch	SKQNAED010	10 (TRACK ARMING)		01
SW511	VV056000	Tact Switch	SKQNAED010	11 (TRACK ARMING)		01
SW512	VV056000	Tact Switch	SKQNAED010	12 (TRACK ARMING)		01
SW513	VV056000	Tact Switch	SKQNAED010	13 (TRACK ARMING)		01
SW514	VV056000	Tact Switch	SKQNAED010	14 (TRACK ARMING)		01
SW515	VV056000	Tact Switch	SKQNAED010	15 (TRACK ARMING)		01
SW516	VV056000	Tact Switch	SKQNAED010	16 (TRACK ARMING)		01
SW517	VV056000	Tact Switch	SKQNAED010	17 (TRACK ARMING)		01
SW518	VV056000	Tact Switch	SKQNAED010	18 (TRACK ARMING)		01
SW519	VV056000	Tact Switch	SKQNAED010	19 (TRACK ARMING)		01
SW520	VV056000	Tact Switch	SKQNAED010	20 (TRACK ARMING)		01
SW521	VV056000	Tact Switch	SKQNAED010	21 (TRACK ARMING)		01
SW522	VV056000	Tact Switch	SKQNAED010	22 (TRACK ARMING)		01
SW523	VV056000	Tact Switch	SKQNAED010	23 (TRACK ARMING)		01
SW524	VV056000	Tact Switch	SKQNAED010	24 (TRACK ARMING)		01
SW525	VV056000	Tact Switch	SKQNAED010	A (TRACK ARMING GROUP)		01
SW526	VV056000	Tact Switch	SKQNAED010	B (TRACK ARMING GROUP)		01
SW527	VV056000	Tact Switch	SKQNAED010	C (TRACK ARMING GROUP)		01
SW528	VV056000	Tact Switch	SKQNAED010	D (TRACK ARMING GROUP)		01
SW529	VV056000	Tact Switch	SKQNAED010	ALL CLEAR (TRACK ARMING)		01
SW531	VV056000	Tact Switch	SKQNAED010	MASTER (TRACK ARMING)		01
SW533	VV056000	Tact Switch	SKQNAED010	1 (LOCATE MEMORY)		01
SW534	VV056000	Tact Switch	SKQNAED010	2 (LOCATE MEMORY)		01
SW535	VV056000	Tact Switch	SKQNAED010	3 (LOCATE MEMORY)		01
SW536	VV056000	Tact Switch	SKQNAED010	4 (LOCATE MEMORY)		01
SW537	VV056000	Tact Switch	SKQNAED010	5 (LOCATE MEMORY)		01
SW538	VV056000	Tact Switch	SKQNAED010	6 (LOCATE MEMORY)		01
SW539	VV056000	Tact Switch	SKQNAED010	7 (LOCATE MEMORY)		01
SW540	VV056000	Tact Switch	SKQNAED010	8 (LOCATE MEMORY)		01
SW541	VV056000	Tact Switch	SKQNAED010	CONTROL ROOM (MONITOR)		01
SW542	VV056000	Tact Switch	SKQNAED010	STEREO (MONITOR)		01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
SW543	VV056000	Tact Switch	SKQNAED010	AUX11 (MONITOR)		01
SW544	VV056000	Tact Switch	SKQNAED010	AUX12 (MONITOR)		01
SW546	VV056000	Tact Switch	SKQNAED010	CLEAR (MONITOR)		01
SW549	VV056000	Tact Switch	SKQNAED010	AUDITION (LOCATOR)		01
SW550	VV056000	Tact Switch	SKQNAED010	PRE (LOCATOR)		01
SW551	VV056000	Tact Switch	SKQNAED010	IN (LOCATOR)		01
SW552	VV056000	Tact Switch	SKQNAED010	OUT (LOCATOR)		01
SW553	VV056000	Tact Switch	SKQNAED010	POST (LOCATOR)		01
SW554	VV056000	Tact Switch	SKQNAED010	SET (LOCATOR)		01
SW555	VV056000	Tact Switch	SKQNAED010	MTR (LOCATOR)		01
SW556	VV056000	Tact Switch	SKQNAED010	MASTER (LOCATOR)		01
SW557	VV056000	Tact Switch	SKQNAED010	RETURN TO ZERO (LOCATOR)		01
SW558	VV056000	Tact Switch	SKQNAED010	END (LOCATOR)		01
SW559	VV056000	Tact Switch	SKQNAED010	ONLINE (LOCATOR)		01
SW560	VV056000	Tact Switch	SKQNAED010	LOOP (LOCATOR)		01
SW561	VV056000	Tact Switch	SKQNAED010	QUICK PUNCH (LOCATOR)		01
SW562	VV056000	Tact Switch	SKQNAED010	ROLL BACK (LOCATOR)		01
SW563	VV056000	Tact Switch	SKQNAED010	REHEARSAL (LOCATOR)		01
SW565	VV056000	Tact Switch	SKQNAED010	ENABLE (AUTOMIX)		01
SW566	VV056000	Tact Switch	SKQNAED010	REC (AUTOMIX)		01
SW567	VV056000	Tact Switch	SKQNAED010	ABORT/UNDO (AUTOMIX)		01
SW568	VV056000	Tact Switch	SKQNAED010	AUTO-REC (AUTOMIX)		01
SW569	VV056000	Tact Switch	SKQNAED010	RETURN (AUTOMIX)		01
SW570	VV056000	Tact Switch	SKQNAED010	RELATIVE (AUTOMIX)		01
SW571	VV056000	Tact Switch	SKQNAED010	TOUCH SENSE (AUTOMIX)		01
SW573	VV056000	Tact Switch	SKQNAED010	FADER (AUTOMIX)		01
SW574	VV056000	Tact Switch	SKQNAED010	ON (AUTOMIX)		01
SW575	VV056000	Tact Switch	SKQNAED010	PAN (AUTOMIX)		01
SW576	VV056000	Tact Switch	SKQNAED010	SURROUND (AUTOMIX)		01
SW577	VV056000	Tact Switch	SKQNAED010	AUX (AUTOMIX)		01
SW578	VV056000	Tact Switch	SKQNAED010	AUX ON (AUTOMIX)		01
SW579	VV056000	Tact Switch	SKQNAED010	EQ (AUTOMIX)		01
SW581	VV056000	Tact Switch	SKQNAED010	1 (USER DEFINED KEYS)		01
SW582	VV056000	Tact Switch	SKQNAED010	2 (USER DEFINED KEYS)		01
SW583	VV056000	Tact Switch	SKQNAED010	3 (USER DEFINED KEYS)		01
SW584	VV056000	Tact Switch	SKQNAED010	4 (USER DEFINED KEYS)		01
SW585	VV056000	Tact Switch	SKQNAED010	5 (USER DEFINED KEYS)		01
SW586	VV056000	Tact Switch	SKQNAED010	6 (USER DEFINED KEYS)		01
SW587	VV056000	Tact Switch	SKQNAED010	7 (USER DEFINED KEYS)		01
SW588	VV056000	Tact Switch	SKQNAED010	8 (USER DEFINED KEYS)		01
SW589	VV056000	Tact Switch	SKQNAED010	9 (USER DEFINED KEYS)		01
SW590	VV056000	Tact Switch	SKQNAED010	10 (USER DEFINED KEYS)		01
SW591	VV056000	Tact Switch	SKQNAED010	11 (USER DEFINED KEYS)		01
SW592	VV056000	Tact Switch	SKQNAED010	12 (USER DEFINED KEYS)		01
SW593	VV056000	Tact Switch	SKQNAED010	13 (USER DEFINED KEYS)		01
SW594	VV056000	Tact Switch	SKQNAED010	14 (USER DEFINED KEYS)		01
SW595	VV056000	Tact Switch	SKQNAED010	15 (USER DEFINED KEYS)		01
SW596	VV056000	Tact Switch	SKQNAED010	16 (USER DEFINED KEYS)		01
SW597	VV056000	Tact Switch	SKQNAED010	2TR D1 (MONITOR)		01
SW598	VV056000	Tact Switch	SKQNAED010	2TR D2 (MONITOR)		01
SW599	VV056000	Tact Switch	SKQNAED010	2TR D3 (MONITOR)		01
SW600	VV056000	Tact Switch	SKQNAED010	2TR A1 (MONITOR)		01
SW601	VV056000	Tact Switch	SKQNAED010	2TR A2 (MONITOR)		01
SW602	VV056000	Tact Switch	SKQNAED010	STEREO (MONITOR)		01
SW603	VV056000	Tact Switch	SKQNAED010	ASSIGN1 (MONITOR)		01
SW604	VV056000	Tact Switch	SKQNAED010	ASSIGN2 (MONITOR)		01
SW605	VV056000	Tact Switch	SKQNAED010	BUS (MONITOR)		01
SW606	VV056000	Tact Switch	SKQNAED010	ASSIGN1 (MONITOR)		01
SW607	VV056000	Tact Switch	SKQNAED010	ASSIGN2 (MONITOR)		01
SW608	VV056000	Tact Switch	SKQNAED010	MONO (MONITOR)		01
SW609	VV056000	Tact Switch	SKQNAED010	DIMMER (MONITOR)		01
SW610	VV056000	Tact Switch	SKQNAED010	SMALL (MONITOR)		01
SW611	VV056000	Tact Switch	SKQNAED010	SLATE (MONITOR)		01
SW612	VR531200	Push Switch	ML1A-11JW	TALKBACK (MONITOR)		02
SW613	VV056000	Tact Switch	SKQNAED010	DISPLAY (TRACK ARMING)		01
SW614	VV056000	Tact Switch	SKQNAED010	DISPLAY (SCENE MEMORY)		01
SW615	VV056000	Tact Switch	SKQNAED010	DISPLAY (AUTOMIX)		01
SW616	VV056000	Tact Switch	SKQNAED010	DISPLAY (USER DEFINED KEYS)		01
SW617	VV056000	Tact Switch	SKQNAED010	DISPLAY (LOCATOR)		01
SW618	VV056000	Tact Switch	SKQNAED010	DISPLAY (MONITOR)		01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
SW621	VR531200	Push Switch	ML1A-11JW	STORE (SCENE MEMORY)		02
SW622	VR531200	Push Switch	ML1A-11JW	RECALL (SCENE MEMORY)		02
SW623	VR531200	Push Switch	ML1A-11JW	Cursor Up (SCENE MEMORY)		02
SW624	VR531200	Push Switch	ML1A-11JW	Cursor Down(SCENE MEMORY)		02
TA501	VQ248400	Transistor Array	TD62783AF			04
-503	VQ248400	Transistor Array	TD62783AF			04
TA505	VY703900	Transistor Array	TD62309F(EL)			04
-507	VY703900	Transistor Array	TD62309F(EL)			04
TR612	VV655400	Digital Transistor	DTC114EKA TP			01
VR501	VQ670500	Rotary Pot.	B 10K RK11K1130	SOLO CONTRAST		02
VR502	VQ670500	Rotary Pot.	B 10K RK11K1130	SURROUND MONITOR LEVEL		02
VR503	VZ583900	Rotary Variable Resistor	A 20.0K RK14K12C0	CONTROL ROOM LEVEL		03
* W504	V8391400	Jumper Wire	FVP=2.0C26SB4-100			
* W506	VU073200	Jumper Wire	FVP=2.0C26SB9-350			
* V7765300		Circuit Board	DM2K PN4 (PN4COM)	(V830050)(XZ219B0)		
* V6288200		Circuit Board	DM2K DS (PN4COM)	(V830050)(XZ219B0)		
* 60	V8487100	Button M_Gray	LENS	SHUTTLE,SCRUB	2	
* 100	V8487500	Button M_Gray	S	BACK,FORWARD	2	
* 150	V8487900	Button Light Gray	CURSOR	DEC,INC,ENTER	3	
* 170	V8488200	Button Light Gray	LENS CURSOR	REW		
* 180	V8488400	Button Light Gray	LENS CURSOR	FF		
* 190	V8488500	Button Light Gray	LENS CURSOR	STOP		
* 200	V8488600	Button Light Gray	LENS CURSOR	PLAY		
* 210	V8488800	Button Light Gray	LENS CURSOR	REC		
* 220	V8489000	Button Light Gray	CURSOR	Cursor Left		
* 230	V8489100	Button Light Gray	CURSOR	Cursor Right		
* 240	V8489200	Button Light Gray	CURSOR	Cursor Up		
* 250	V8489400	Button Light Gray	CURSOR	Cursor Down		
C001	UF037100	Electrolytic Cap. (chip)	10 16V			01
C002	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C004	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
-007	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C011	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C012	US145100	Ceramic Capacitor-F (chip)	0.1000 25V Z			01
C013	UF037100	Electrolytic Cap. (chip)	10 16V			01
C014	US061470	Ceramic Capacitor-CH(chip)	47P 50V J			01
-018	US061470	Ceramic Capacitor-CH(chip)	47P 50V J			01
C701	UF028100	Electrolytic Cap. (chip)	100 10V			01
C702	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
CN001	VK025800	Wire Trap	52147 14P TE			01
CN002	VK025100	Wire Trap	52147 7P TE			01
CN003	V3962800	Connector	CN015R-3013-0	SMART MEDIA		05
CN701	VQ045500	Connector, FFC	52044 26P SE			02
CN702	VI878200	Cable Holder	51048 4P TE			01
CN703	VI878200	Cable Holder	51048 4P TE			01
D701	VT332900	Diode	1SS355 TE-17			01
-716	VT332900	Diode	1SS355 TE-17			01
* EC701	V6225900	Optical Rotary Encoder	REC16B25-201-K	PARAMETER WHEEL		
EM001	FZ006970	LC Filter	MTY223NBTBM			02
EM701	FZ006970	LC Filter	MTY223NBTBM			02
EM702	FZ006970	LC Filter	MTY223NBTBM			02
IC001	XY537A00	IC	TC74VHC32F(EL)	OR		01
IC002	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC003	XT800A00	IC	TC74VHC244F	BUFFER		03
IC004	XY254A00	IC	TC74VHC273F(EL)	D-FF		03
IC005	XM332A00	IC	TC74VHC04F EL	INVERTER		01
IC006	XY537A00	IC	TC74VHC32F(EL)	OR		01
L001	GE300610	Ferrite Bead	BL02RN1-R62T4			01
* LD705	V3670200	LED Yellow	LT1H40A	SHUTTLE		
* LD706	V3670200	LED Yellow	LT1H40A	SCRUB		
* LD709	V3670200	LED Yellow	LT1H40A	REW		
* LD710	V3670200	LED Yellow	LT1H40A	FF		
* LD711	V3670200	LED Yellow	LT1H40A	STOP		
* LD712	V3670100	LED Yellow/Green	LT1E40A	PLAY		
* LD713	V3670000	LED Red	LT1D40A	REC		
R001	RD257220	Carbon Resistor (chip)	22.0K 0.1 J			01
R003	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
-005	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R006	RD258470	Carbon Resistor (chip)	470.0K 0.1 J			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
-008	RD258470	Carbon Resistor (chip)	470.0K 0.1 J			01
R009	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-011	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R012	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
-014	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R015	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
R016	RD155470	Carbon Resistor (chip)	470.0 1/4 J			
R017	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R018	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R709	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-713	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
RA001	RE047220	Resistor Array	22KX4			01
-003	RE047220	Resistor Array	22KX4			01
RA004	RE044680	Resistor Array	68X4			01
RA005	RE044680	Resistor Array	68X4			01
RA006	RE048100	Resistor Array	100KX4			01
RA007	RE044680	Resistor Array	68X4			01
RA008	RE048100	Resistor Array	100KX4			01
RA009	RE044680	Resistor Array	68X4			01
RA701	RE047100	Resistor Array	10KX4			01
RA702	RE047100	Resistor Array	10KX4			01
SW701	VR531200	Push Switch	ML1A-11JW	Cursor Left		02
SW702	VR531200	Push Switch	ML1A-11JW	Cursor Right		02
SW703	VR531200	Push Switch	ML1A-11JW	Cursor Up		02
SW704	VR531200	Push Switch	ML1A-11JW	Cursor Down		02
SW705	VV056000	Tact Switch	SKQNAED010	SHUTTLE		01
SW706	VV056000	Tact Switch	SKQNAED010	SCRUB		01
SW707	VV056000	Tact Switch	SKQNAED010	BACK (DISPLAY HISTORY)		01
SW708	VV056000	Tact Switch	SKQNAED010	FORWARD (DISPLAY HISTORY)		01
SW709	VR531200	Push Switch	ML1A-11JW	REW		02
SW710	VR531200	Push Switch	ML1A-11JW	FF		02
SW711	VR531200	Push Switch	ML1A-11JW	STOP		02
SW712	VR531200	Push Switch	ML1A-11JW	PLAY		02
SW713	VR531200	Push Switch	ML1A-11JW	REC		02
SW714	VR531200	Push Switch	ML1A-11JW	DEC		02
SW715	VR531200	Push Switch	ML1A-11JW	INC		02
SW716	VR531200	Push Switch	ML1A-11JW	ENTER		02
TR001	VJ927200	Transistor	2SA1162 O,Y			01
TR709	VV655400	Digital Transistor	DTC114EKA TP			01
-713	VV655400	Digital Transistor	DTC114EKA TP			01
* W702	V8391400	Jumper Wire	FVP=2.0C26SB4-100			
*	V6468800	Circuit Board	DM2K ST (STCOM)	(V628800)(XZ034A0)		
*	V6468900	Circuit Board	DM2K STD (STCOM)	(V628800)(XZ034A0)		
*	V6435400	Holder, Phones	x2			
*	V7539700	Cannon Angle			2	
168	--	Jumper Wire	0.55	(VA07890)		
C001	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
-004	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C101	VG277000	Ceramic Capacitor-SL	33P 50V J			01
C102	VG277000	Ceramic Capacitor-SL	33P 50V J			01
C103	UU168100	Electrolytic Cap.	100.00 50.0V			01
C104	UU168100	Electrolytic Cap.	100.00 50.0V			01
C105	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C106	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C107	UU168100	Electrolytic Cap.	100.00 50.0V			01
C108	UU168100	Electrolytic Cap.	100.00 50.0V			01
C201	VG277000	Ceramic Capacitor-SL	33P 50V J			01
C202	VG277000	Ceramic Capacitor-SL	33P 50V J			01
C203	UU168100	Electrolytic Cap.	100.00 50.0V			01
C204	UU168100	Electrolytic Cap.	100.00 50.0V			01
C205	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C206	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C207	UU168100	Electrolytic Cap.	100.00 50.0V			01
C208	UU168100	Electrolytic Cap.	100.00 50.0V			01
C301	VG277000	Ceramic Capacitor-SL	33P 50V J			01
C302	VG277000	Ceramic Capacitor-SL	33P 50V J			01
C303	UU168100	Electrolytic Cap.	100.00 50.0V			01
C304	UU168100	Electrolytic Cap.	100.00 50.0V			01
C305	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C306	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C307	UU147470	Electrolytic Cap.	47.00 25.0V			01
C308	UU147470	Electrolytic Cap.	47.00 25.0V			01
C309	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C310	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C311	VF466900	Ceramic Capacitor-B	470P 50V K			01
C312	VF466900	Ceramic Capacitor-B	470P 50V K			01
C313	UU168100	Electrolytic Cap.	100.00 50.0V			01
C314	UU168100	Electrolytic Cap.	100.00 50.0V			01
C401	VG277000	Ceramic Capacitor-SL	33P 50V J			01
C402	VG277000	Ceramic Capacitor-SL	33P 50V J			01
C403	UU168100	Electrolytic Cap.	100.00 50.0V			01
C404	UU168100	Electrolytic Cap.	100.00 50.0V			01
C405	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C406	VT439600	Monolithic Ceramic Cap.	0.100 50V Z			01
C407	UU147470	Electrolytic Cap.	47.00 25.0V			01
C408	UU147470	Electrolytic Cap.	47.00 25.0V			01
C411	VF466900	Ceramic Capacitor-B	470P 50V K			01
C412	VF466900	Ceramic Capacitor-B	470P 50V K			01
C413	UU168100	Electrolytic Cap.	100.00 50.0V			01
C414	UU168100	Electrolytic Cap.	100.00 50.0V			01
CN001	VB994900	Base Post Connector	MQ 9P TE			01
CN002	VA252400	Base Post Connector	MQ 12P TE			03
EM001	FZ006970	LC Filter	MTY223NBTBM			02
-004	FZ006970	LC Filter	MTY223NBTBM			02
EM101	FZ006920	LC Filter	MTB271KBTBM			01
EM102	FZ006920	LC Filter	MTB271KBTBM			01
EM201	FZ006920	LC Filter	MTB271KBTBM			01
EM202	FZ006920	LC Filter	MTB271KBTBM			01
EM301	FZ006920	LC Filter	MTB271KBTBM			01
EM302	FZ006920	LC Filter	MTB271KBTBM			01
EM401	FZ006920	LC Filter	MTB271KBTBM			01
EM402	FZ006920	LC Filter	MTB271KBTBM			01
EM501	FZ006920	LC Filter	MTB271KBTBM			01
EM502	FZ006920	LC Filter	MTB271KBTBM			01
IC101	XP844A00	IC	NJM4556AL	OP AMP		02
IC201	XP844A00	IC	NJM4556AL	OP AMP		02
IC301	XP844A00	IC	NJM4556AL	OP AMP		02
IC302	XM356A00	IC	NJM2068L-D	OP AMP		02
IC401	XP844A00	IC	NJM4556AL	OP AMP		02
JK101	VS762900	Cannon Connector	NC3MAHR	STEREO OUT L		03
JK201	VS762900	Cannon Connector	NC3MAHR	STEREO OUT R		03
JK301	VS056300	Phone Jack	HLJ7001-01	STUDIO MONITOR OUT L		01
JK401	VS056300	Phone Jack	HLJ7001-01	STUDIO MONITOR OUT R		01
JK501	VM725600	Pin Jack	2P E YKC21-3045	STEREO OUT L/R		02
R101	HF454390	Carbon Resistor	39.0 1/4 J			01
R102	HF458100	Carbon Resistor	100.0K 1/4 J			01
R103	HB027100	Metal Film Resistor	10.0K 1/4 F			
R104	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R105	HB027110	Metal Film Resistor	11.0K 1/4 F			
R106	HB027100	Metal Film Resistor	10.0K 1/4 F			
R107	HB027200	Metal Film Resistor	20.0K 1/4 F			
R108	HB027200	Metal Film Resistor	20.0K 1/4 F			
R109	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R110	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R111	HF454750	Carbon Resistor	75.0 1/4 J			01
R112	HF454750	Carbon Resistor	75.0 1/4 J			01
R113	HF458100	Carbon Resistor	100.0K 1/4 J			01
R114	HF458100	Carbon Resistor	100.0K 1/4 J			01
R115	HF457100	Carbon Resistor	10.0K 1/4 J			01
R116	HF457100	Carbon Resistor	10.0K 1/4 J			01
R201	HF454390	Carbon Resistor	39.0 1/4 J			01
R202	HF458100	Carbon Resistor	100.0K 1/4 J			01
R203	HB027100	Metal Film Resistor	10.0K 1/4 F			
R204	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R205	HB027110	Metal Film Resistor	11.0K 1/4 F			
R206	HB027100	Metal Film Resistor	10.0K 1/4 F			
R207	HB027200	Metal Film Resistor	20.0K 1/4 F			
R208	HB027200	Metal Film Resistor	20.0K 1/4 F			
R209	HB027180	Metal Film Resistor	18.0K 1/4 F			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R210	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R211	HF454750	Carbon Resistor	75.0 1/4 J			01
R212	HF454750	Carbon Resistor	75.0 1/4 J			01
R213	HF458100	Carbon Resistor	100.0K 1/4 J			01
R214	HF458100	Carbon Resistor	100.0K 1/4 J			01
R215	HF457100	Carbon Resistor	10.0K 1/4 J			01
R216	HF457100	Carbon Resistor	10.0K 1/4 J			01
R303	HB027100	Metal Film Resistor	10.0K 1/4 F			
R304	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R305	V9008100	Metal Film Resistor	11.5K 1/4 D			
R306	HB027100	Metal Film Resistor	10.0K 1/4 F			
R307	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R308	HB027180	Metal Film Resistor	18.0K 1/4 F			01
* R309	HB027160	Metal Film Resistor	16.0K 1/4 F			
* R310	HB027160	Metal Film Resistor	16.0K 1/4 F			
R311	HF454750	Carbon Resistor	75.0 1/4 J			01
R312	HF454750	Carbon Resistor	75.0 1/4 J			01
R313	HF458100	Carbon Resistor	100.0K 1/4 J			01
R314	HF458100	Carbon Resistor	100.0K 1/4 J			01
R315	HF457100	Carbon Resistor	10.0K 1/4 J			01
R316	HF457100	Carbon Resistor	10.0K 1/4 J			01
R317	HF458100	Carbon Resistor	100.0K 1/4 J			01
* R318	HB025470	Metal Film Resistor	470.0 1/4 F			
* R319	HB025470	Metal Film Resistor	470.0 1/4 F			
R403	HB027100	Metal Film Resistor	10.0K 1/4 F			
R404	HB027100	Metal Film Resistor	10.0K 1/4 F			
* R405	V9008100	Metal Film Resistor	11.5K 1/4 D			
R406	HB027100	Metal Film Resistor	10.0K 1/4 F			
R407	HB027180	Metal Film Resistor	18.0K 1/4 F			01
R408	HB027180	Metal Film Resistor	18.0K 1/4 F			01
* R409	HB027160	Metal Film Resistor	16.0K 1/4 F			
* R410	HB027160	Metal Film Resistor	16.0K 1/4 F			
R411	HF454750	Carbon Resistor	75.0 1/4 J			01
R412	HF454750	Carbon Resistor	75.0 1/4 J			01
R413	HF458100	Carbon Resistor	100.0K 1/4 J			01
R414	HF458100	Carbon Resistor	100.0K 1/4 J			01
R415	HF457100	Carbon Resistor	10.0K 1/4 J			01
R416	HF457100	Carbon Resistor	10.0K 1/4 J			01
R417	HF458100	Carbon Resistor	100.0K 1/4 J			01
* R418	HB025470	Metal Film Resistor	470.0 1/4 F			
* R419	HB025470	Metal Film Resistor	470.0 1/4 F			
* R501	HB026150	Metal Film Resistor	1.5K 1/4 F			
* R502	HB026150	Metal Film Resistor	1.5K 1/4 F			
* R503	HB026120	Metal Film Resistor	1.2K 1/4 F			
* R504	HB026120	Metal Film Resistor	1.2K 1/4 F			
R505	HF457100	Carbon Resistor	10.0K 1/4 J			01
R506	HF457100	Carbon Resistor	10.0K 1/4 J			01
TR101	VK432900	Transistor	2SD1915(F) S,T			01
TR102	VK432900	Transistor	2SD1915(F) S,T			01
TR201	VK432900	Transistor	2SD1915(F) S,T			01
TR202	VK432900	Transistor	2SD1915(F) S,T			01
TR301	VK432900	Transistor	2SD1915(F) S,T			01
TR302	VK432900	Transistor	2SD1915(F) S,T			01
TR401	VK432900	Transistor	2SD1915(F) S,T			01
TR402	VK432900	Transistor	2SD1915(F) S,T			01
TR501	VK432900	Transistor	2SD1915(F) S,T			01
TR502	VK432900	Transistor	2SD1915(F) S,T			01
VR301	VQ901400	Rotary Variable Resistor	A20Kx2 RK14K12B	STUDIO LEVEL		03
* V6285300		Circuit Board	DM2K SUB	(XZ019B0)		
C101	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
-104	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C105	UF027470	Electrolytic Cap. (chip)	47 10V			01
C106	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C107	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C108	US062470	Ceramic Capacitor-SL(chip)	470P 50V J			01
C110	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C112	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
-118	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C119	UF027470	Electrolytic Cap. (chip)	47 10V			01

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C120	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C121	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C122	US062470	Ceramic Capacitor-SL(chip)	470P 50V J			01
C125	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C126	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C127	UF037100	Electrolytic Cap. (chip)	10 16V			01
C128	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C129	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C131	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C132	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C134	UF037100	Electrolytic Cap. (chip)	10 16V			01
C135	US061220	Ceramic Capacitor-CH(chip)	22P 50V J			01
C136	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C137	US061220	Ceramic Capacitor-CH(chip)	22P 50V J			01
C138	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C139	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
-147	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C163	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
-165	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C166	UF037470	Electrolytic Cap. (chip)	47 16V			01
C169	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
-175	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C177	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
-180	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C181	US062100	Ceramic Capacitor-SL(chip)	100P 50V J			01
C182	US063100	Ceramic Capacitor-B (chip)	1000P 50V K			01
C183	US063100	Ceramic Capacitor-B (chip)	1000P 50V K			01
C184	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C185	US063100	Ceramic Capacitor-B (chip)	1000P 50V K			01
-191	US063100	Ceramic Capacitor-B (chip)	1000P 50V K			01
C193	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
-198	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C501	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
-598	US135100	Ceramic Capacitor-F (chip)	0.1000 16V Z			01
C599	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
C600	US064100	Ceramic Capacitor-B (chip)	0.0100 50V K			01
CN101	VB390100	Connector Base Post	PH 5P TE			01
CN102	VF728300	Wire Trap	52147 6P TE			01
CN103	VB390100	Connector Base Post	PH 5P TE			01
CN104	VK025500	Wire Trap	52147 11P TE			01
CN111	VO022100	Connector, FFC	52045 40P TE			02
-113	VO022100	Connector, FFC	52045 40P TE			02
CN114	VK025300	Wire Trap	52147 9P TE			01
CN115	VF667700	Wire Trap	52147 17P TE			01
CN117	VQ047500	Connector, FFC	52045 20P TE			01
CN118	VO022100	Connector, FFC	52045 40P TE			02
CN119	VQ048500	Connector, FFC	52045 36P TE			02
D101	VT332900	Diode	1SS355 TE-17			01
EM101	VQ761400	EMI Filter (chip)	NFM3DCC101U1H3L			01
EM102	VQ761400	EMI Filter (chip)	NFM3DCC101U1H3L			01
EM103	FZ006970	LC Filter	MTY223NBTBM			02
EM104	FZ006970	LC Filter	MTY223NBTBM			02
EM105	VQ761400	EMI Filter (chip)	NFM3DCC101U1H3L			01
* IC101	X2962A00	IC	HD64F7044F28	CPU		02
IC102	IS024500	IC	HD74LV245AFPEL	TRANSCEIVER		07
IC104	XT138A00	IC	UPD431000AGW-70LL	SRAM 1M		07
IC105	XT138A00	IC	UPD431000AGW-70LL	SRAM 1M		07
IC106	IS024500	IC	HD74LV245AFPEL	TRANSCEIVER		02
* IC107	X2962A00	IC	HD64F7044F28	CPU		07
IC109	XT138A00	IC	UPD431000AGW-70LL	SRAM 1M		07
IC110	XT138A00	IC	UPD431000AGW-70LL	SRAM 1M		07
IC111	XP226A00	IC	IC-PST591DMT	SYSTEM RESET		03
IC112	IS012500	IC	HD74LV125AFPEL	BUFFER		01
IC113	IS000000	IC	HD74LV00AFPEL	NAND		01
IC114	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC117	XY102A00	IC	HD74LVU04AFPEL	INVERTER		01
IC118	IS013810	IC	SN74LV138ANSR	DECODER		01
IC119	XV973A00	IC	SGH603064F-62F	GATE ARRAY		07
-122	XV973A00	IC	SGH603064F-62F	GATE ARRAY		07
IC124	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03

*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
IC125	XW762A00	IC	TC74HC138AFEL	DECODER		02
IC126	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC128	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC129	XW762A00	IC	TC74HC138AFEL	DECODER		02
IC130	IS405210	IC	SN74LV4052ANSR	MULTIPLEXER		02
IC131	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
-134	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC135	XS534A00	IC	NJM78M05DLA(TE1)	REGULATOR +5V		02
IC136	XR532A00	IC	NJM2904V(TE1)	OP AMP		02
IC137	IS000400	IC	HD74LV04AFPEL	INVERTER		01
IC138	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
L101	GE300610	Ferrite Bead	BL02RN1-R62T4			01
L103	GE300610	Ferrite Bead	BL02RN1-R62T4			01
* L104	V8143400	Chip Inductance	BLM21R121SKPT			
* -177	V8143400	Chip Inductance	BLM21R121SKPT			
R101	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
R102	RD256300	Carbon Resistor (chip)	3.0K 0.1 J			01
R104	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R105	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
R106	RD256300	Carbon Resistor (chip)	3.0K 0.1 J			01
R108	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
-113	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R119	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R120	RD259100	Carbon Resistor (chip)	1.0M 0.1 J			01
R122	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R123	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
R127	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R128	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R131	V1192200	Metal Film Resistor (chip)	75.0 1/10 D			01
R132	V1197400	Metal Film Resistor (chip)	10.0K 1/10 D			01
R133	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-135	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R137	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R138	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R139	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R141	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R142	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R143	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-149	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R150	HV754470	Flame Proof C. Resistor	47.0 1/4 J			01
R151	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R152	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
-160	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R161	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R162	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R163	RD258470	Carbon Resistor (chip)	470.0K 0.1 J			01
-166	RD258470	Carbon Resistor (chip)	470.0K 0.1 J			01
R168	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R169	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
-172	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R501	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
-504	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
RA101	RE047100	Resistor Array	10KX4			01
-130	RE047100	Resistor Array	10KX4			01
RA132	RE047100	Resistor Array	10KX4			01
-138	RE047100	Resistor Array	10KX4			01
RA501	RE047100	Resistor Array	10KX4			01
-549	RE047100	Resistor Array	10KX4			01
SW101	KA401270	Slide Switch	SSS212			03
SW102	KA401270	Slide Switch	SSS212			03
TR101	VQ986700	Transistor	2SC2SC4081 T106			01
X101	V3719200	Quartz Crystal Unit	6.7584MHz SMD-49			03
* C001	V6543900	Circuit Board	DM2K SW	(X2215B0)		
C003	V5900200	Mylar Capacitor	1.0000 250V M			
△ C004	V7683000	Capacitor	4700P 250V J.U.C.S			01
△ C005	V7682800	Capacitor	4700P 250V J.U.C.S			01
△ C006	V7682800	Capacitor	0.010 VA1 J.U.C.S			01
CN001	VG879900	Base Post Connector	VA 2P TE			01

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK	
⚠	CN002	LB932040	Base Post Connector	VH 4P TE		01	
	F001	VT943300	Fuse	TH 6.30A S		01	
	FZ001	LB201530	Fuse Holder	PC-FH1	2	01	
	K001	BB069510	Land Terminal	A-8		01	
⚠ *	L001	V8429500	Coil	SC-05-100J			
⚠	SW001	VE681200	Push Switch	SDDFA3015A J.U.C.S	POWER ON/OFF	05	
⚠ *		V6526100	Power Supply Unit	XR-642 J,UL,CSA,S			
		NOTE: See parts list of the power supply unit service manual for details of circuit board component parts.					
*		V8628200	Motor	DC KDE1208PTS3-6	Fan		
		V5125700	LCD	EDMMPU3BDF		24	
*		V6512000	Display Tube	M40ST01AA			
*		V6512100	Display Tube	M40ST01AB	2		
⚠		VN103500	Lithium Battery	CR2032		03	
⚠		V5065200	AC Inlet	M1908-C	AC IN	03	
⚠		V5800000	AC Cord	J 3P 15A	J	09	
⚠		V5068000	AC Cord	U/C 3P 13A	U,V	09	
⚠		V5067700	AC Cord	CE 3P 10A	H,W	08	
⚠		V6190800	AC Cord	BS	B	10	

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PEAK METER BRIDGE

MB2000

PARTS LIST


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ELECTRICAL PARTS	6

Notes : DESTINATION ABBREVIATIONS

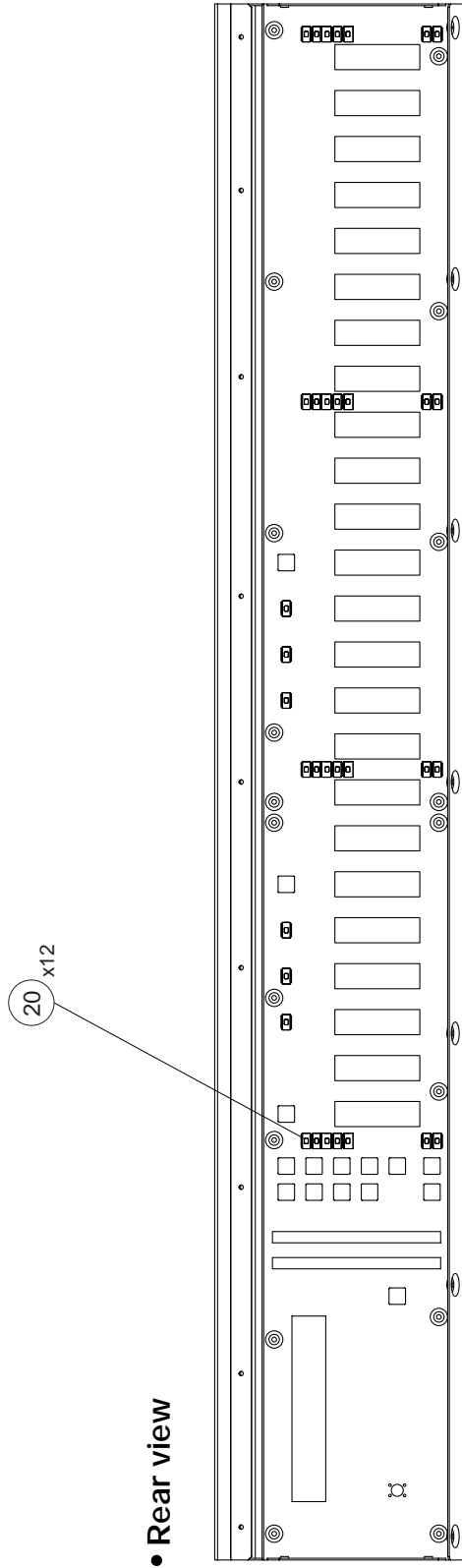
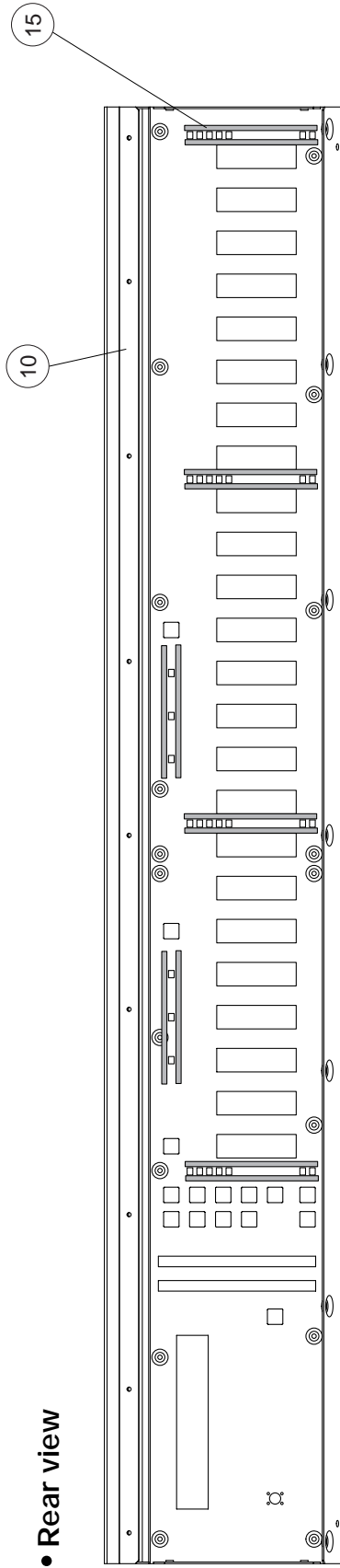
A : Australian model	M: South African model
B : British model	O : Chinese model
C : Canadian model	Q : South-east Asia model
D : German model	T : Taiwan model
E : European model	U : U.S.A. model
F : French model	V : General export model (110V)
H : North European model	W: General export model (220V)
I : Indonesian model	N,X: General export model
J : Japanese model	Y : Export model

■ WARNING

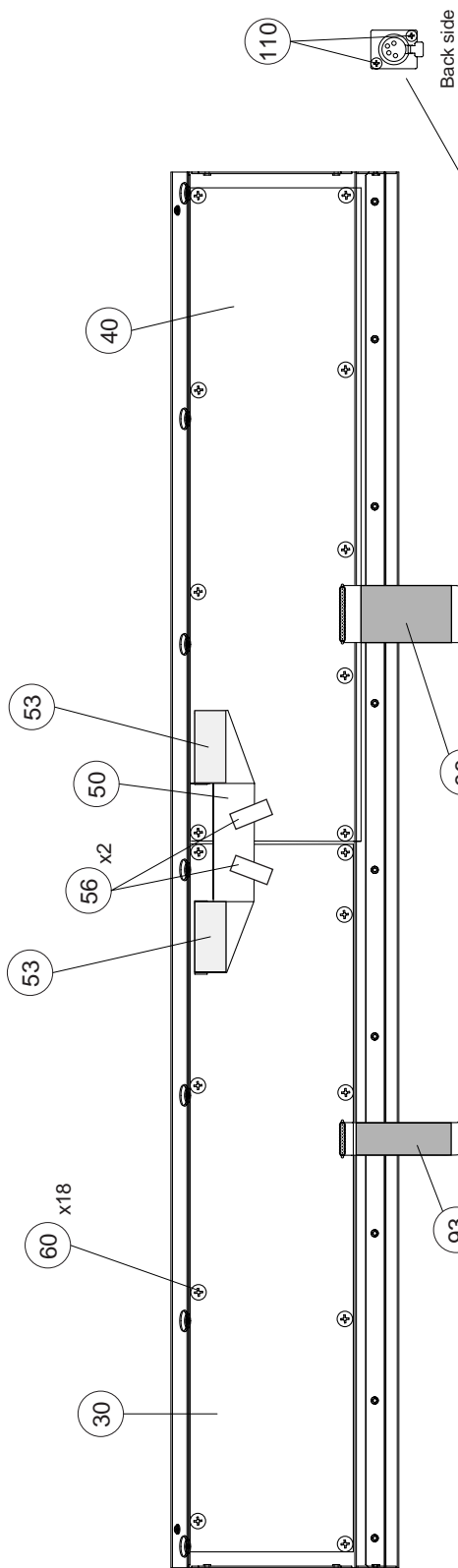
Components having special characteristics are marked  and must be replaced with parts having specification equal to those originally installed.

- The numbers "QTY" show quantities for each unit.
- The parts with "--" in "PART NO." are not available as spare parts.
- This mark "}" in the REMARKS column means these parts are interchangeable.
- The second letter of the shaded (■) part number is O, not zero.
- The second letter of the shaded (■) part number is I, not one.

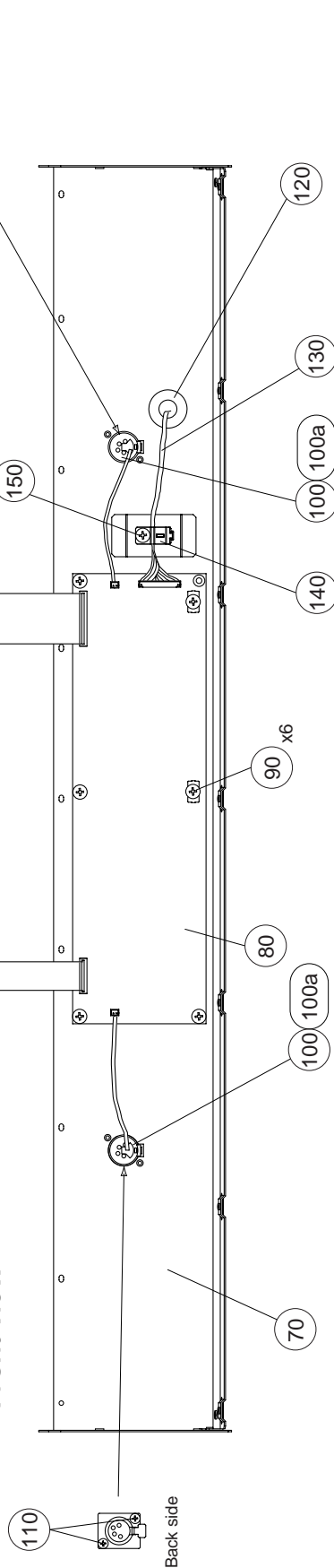
OVERALL ASSEMBLY



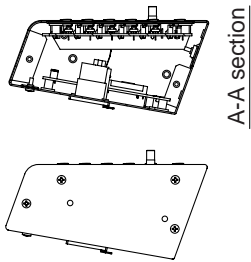
• Rear view



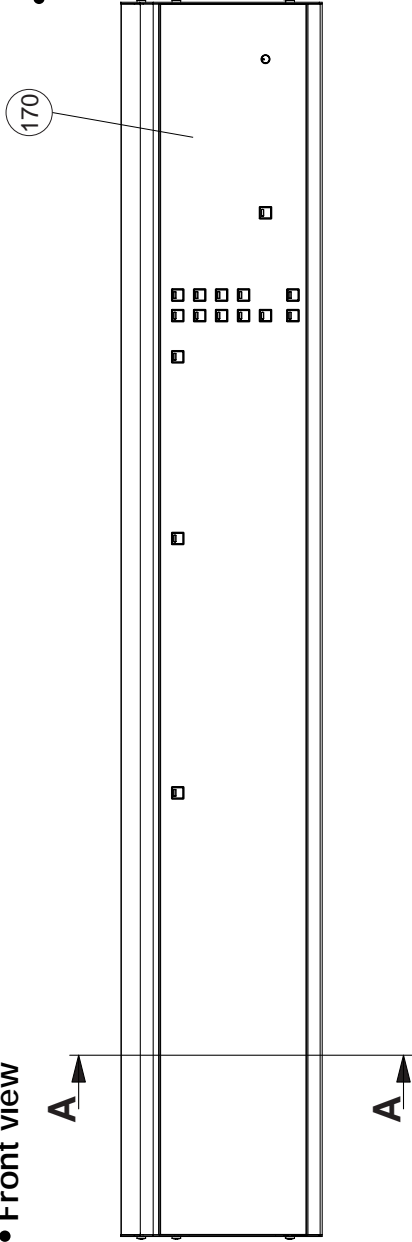
• Front view



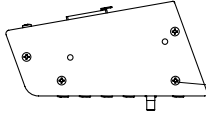
• Left side view



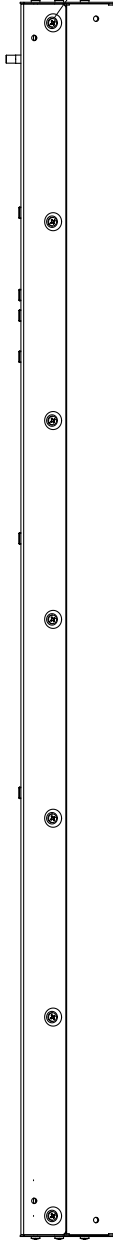
• Front view



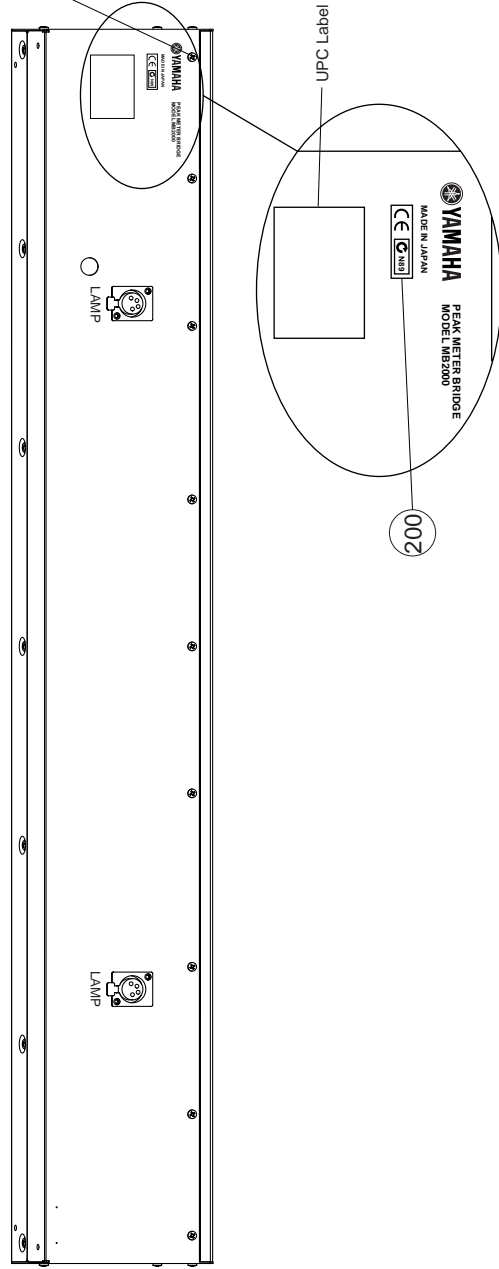
• Right side view



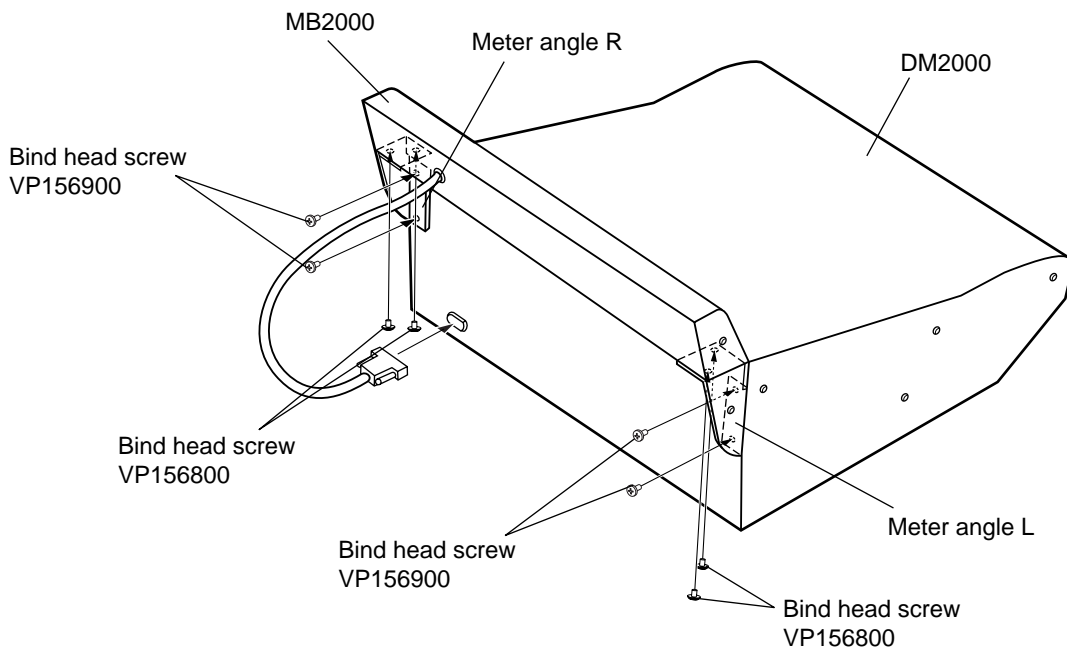
• Bottom view



• Rear view



• Accessories



REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	OVERALL ASSEMBLY		MB2000 (V644740)		
* 10	V8403300	Front Panel				
15	--	Adhesive Tape	#500 W=3	(VE36240)		
* 20	V6180000	LED Lens	x3P	1-24,25-48,49-72,73-96, MASTER,1-48,49-96	12	
* 30	V6288600	Circuit Board	MB2K PN1 (PNCOM)			
* 40	V6288700	Circuit Board	MB2K PN2 (PNCOM)			
* 50	MF135250	Connector Assembly	35P 250mm P=1.25			
53	--	Sponge	FFC 45X45X3 BL	(V909460)	2	
56	VA126100	Adhesive Tape	12X50		2	03
60	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		18	01
70	V8563800	Rear Panel				
* 80	V6288800	Circuit Board	MB2K DC			
90	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		6	01
93	--	Sponge	JW1 20X100X3 BL	(V909440)		
96	--	Sponge	JW2 35X100X3 BL	(V909450)		
* 100	V8461000	Connector Assembly	CANON&PH2P 130L		2	
100a	VA728100	Cannon Connector	XLR-4-31-F77	LAMP		10
110	EE620190	Pan Head Screw	2.6X8 MFNI33		4	01
120	VU264700	Bushing	TB-9513			01
* 130	V6552600	DSUB Cable	DSUB15P 0.5m			
140	VU264800	Cable Holder				08
150	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			01
160	VP157000	Bind Head Tapping Screw-B	A3.0X8 MFZN2BL		24	01
* 170	V6312600	Meter Sheet				
200	--	CE-CTICK Label	S	(V269120)		
		ACCESSORIES				
	VP156800	Bind Head Screw	A4.0X8 MFZN2BL		4	01
	VP156900	Bind Head Screw	A4.0X12 MFZN2BL		4	01
* 170	V6381300	Meter Angle L	LEFT			
* 170	V6381400	Meter Angle R	RIGHT			

*: New Parts

RANK: Japan only

ELECTRICAL PARTS

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		ELECTRICAL PARTS		MB2000		
*	V6288800	Circuit Board	MB2K DC	(XZ038B0)		
*	V6288600	Circuit Board	MB2K PN1 (PNCOM)	(V773550)(XZ036B0)		
*	V6288700	Circuit Board	MB2K PN2 (PNCOM)	(V773550)(XZ036B0)		
*	V6288800	Circuit Board	MB2K DC	(XZ038B0)		
	VB659000	Bind Head Screw	3.0X8 MFZN2BL			01
	IL000690	Insulation Sheet	CSSX-G509			01
	--	Jumper Wire	0.55	(VA07890)		
C301	UR868470	Electrolytic Cap.	470.00 50.0V			01
C302	FG644100	Ceramic Capacitor-F	0.0100 50V Z			01
C303	UR848470	Electrolytic Cap.	470.00 25.0V			01
C304	UR868470	Electrolytic Cap.	470.00 50.0V			01
C305	FG644100	Ceramic Capacitor-F	0.0100 50V Z			01
C306	FG644100	Ceramic Capacitor-F	0.0100 50V Z			01
C307	UR837470	Electrolytic Cap.	47.00 16.0V			01
C308	VF611200	Monolithic Ceramic Cap.	0.100 50V Z			02
C309	UR848470	Electrolytic Cap.	470.00 25.0V			01
C311	FG644100	Ceramic Capacitor-F	0.0100 50V Z			01
C314	UR837470	Electrolytic Cap.	47.00 16.0V			01
C315	VF611200	Monolithic Ceramic Cap.	0.100 50V Z			02
C316	VF611200	Monolithic Ceramic Cap.	0.100 50V Z			02
CN301	VE352600	Connector Base Post	PH 14P TE			01
CN302	VF728200	Wire Trap	52147 10P TE			01
CN303	VF667700	Wire Trap	52147 17P TE			01
CN304	VB389800	Connector Base Post	PH 2P TE			01
CN305	VB389800	Connector Base Post	PH 2P TE			01
D301	VP974300	Diode	D3S6M-4002			03
D302	VB481900	Diode	11ES4			01
-309	VB481900	Diode	11ES4			01
D310	VP974300	Diode	D3S6M-4002			03
EM302	FZ006970	LC Filter	MTY223NBTBM			02
-304	FZ006970	LC Filter	MTY223NBTBM			02
EM305	FZ006920	LC Filter	MTB271KBTBM			01
-308	FZ006920	LC Filter	MTB271KBTBM			01
EM309	FZ006970	LC Filter	MTY223NBTBM			02
-314	FZ006970	LC Filter	MTY223NBTBM			02
K302	BB069510	Land Terminal	#6951 A-8			01
K304	VJ802700	Heat Sink	PUG26-25			02
K307	BB069510	Land Terminal	#6951 A-8			01
L301	V2379700	Coil	HP-033JY 150			06
L302	V2379700	Coil	HP-033JY 150			06
IC301	XT442A00	IC	SI-8050S	REGULATOR +5V		05
IC302	XZ274A00	IC	SI-8033S(LF1101)	REGULATOR +3.3V		
IC303	XU463A00	IC	SN75C1168N	LINE TRANSCEIVER		05
R301	HF757100	Carbon Resistor	10.0K 1/4 J			01
R302	HF454470	Carbon Resistor	47.0 1/4 J			01
-305	HF454470	Carbon Resistor	47.0 1/4 J			01
R306	HF757100	Carbon Resistor	10.0K 1/4 J			01
R307	HF456220	Carbon Resistor	2.2K 1/4 J			01
R308	HF456270	Carbon Resistor	2.7K 1/4 J			01
R309	VC740500	Metal Oxide Film Resistor	1.5 1W J			01
R310	HF456270	Carbon Resistor	2.7K 1/4 J			01
R311	HF456220	Carbon Resistor	2.2K 1/4 J			01
R312	HF757100	Carbon Resistor	10.0K 1/4 J			01
-314	HF757100	Carbon Resistor	10.0K 1/4 J			01
R315	VC740500	Metal Oxide Film Resistor	1.5 1W J			01
TH301	VV455600	Protector Switch	RXE017 0.17A 60V			03
* TH302	VV456300	Protector Switch	RXE065 0.65A 72V			
TH303	VV456500	Protector Switch	RXE090 0.90A 72V			03
TR301	IB059630	Transistor	2SB596 O,Y			04
TR302	IC1815M0	Transistor	2SC1815 Y,GR			01
TR303	IC1815M0	Transistor	2SC1815 Y,GR			01
TR304	IB059630	Transistor	2SB596 O,Y			04
TR305	IC1815M0	Transistor	2SC1815 Y,GR			01
TR306	IC1815M0	Transistor	2SC1815 Y,GR			01
*	V6288600	Circuit Board	MB2K PN1 (PNCOM)	(V773550)(XZ036B0)		
*	V6288700	Circuit Board	MB2K PN2 (PNCOM)	(V773550)(XZ036B0)		
* 70	V8487200	Button Light Gray	S LENS	PEAK HOLD,1-24,25-48,	13	

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* 110	V8487600	Button Light Gray	S	49-72,73-96,MASTER, REMOTE 1-4,1-48,49-96, CONTROL ROOM INPUT METERING POSITION, OUTPUT METERING POSITION CH 1-24,STEREO L/R	2	
* 130	V6179800	LED Lens	x16P		52	
C101	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C102	UF037100	Electrolytic Cap. (chip)	10 16V			01
C103	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-106	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C116	UF037100	Electrolytic Cap. (chip)	10 16V			01
C117	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-120	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C121	UF037100	Electrolytic Cap. (chip)	10 16V			01
C122	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C123	UF038100	Electrolytic Cap. (chip)	100 16V			01
C124	UF038100	Electrolytic Cap. (chip)	100 16V			01
C201	UF038100	Electrolytic Cap. (chip)	100 16V			01
C202	UF038100	Electrolytic Cap. (chip)	100 16V			01
C203	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C204	UF037100	Electrolytic Cap. (chip)	10 16V			01
C205	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-208	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C218	UF037100	Electrolytic Cap. (chip)	10 16V			01
C219	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-222	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C226	UF018100	Electrolytic Cap. (chip)	100 6.3V			01
C227	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-234	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C235	UB052470	Monolithic Ceramic Cap.	SL 470P 50V J			01
C236	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
C237	UB051220	Monolithic Ceramic Cap.	SL 22P 50V J			01
C238	UB051220	Monolithic Ceramic Cap.	SL 22P 50V J			01
C239	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
-241	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
CN101	VQ046400	Connector, FFC	52044 35P SE			01
CN102	VI878800	Cable Holder	51048 10P TE			01
CN201	VI879500	Cable Holder	51048 17P TE			01
CN203	VQ046400	Connector, FFC	52044 35P SE			01
D101	VT332900	Diode	1SS355 TE-17			01
D201	VT332900	Diode	1SS355 TE-17			01
-214	VT332900	Diode	1SS355 TE-17			01
EM101	FZ006970	LC Filter	MTY223NBTBM			02
EM102	FZ006970	LC Filter	MTY223NBTBM			02
EM201	FZ006970	LC Filter	MTY223NBTBM			02
EM202	FZ006970	LC Filter	MTY223NBTBM			02
EM203	FZ006920	LC Filter	MTB271KBTBM			01
IC101	XS720A00	IC	TC74HC245AF	TRANSCEIVER		03
IC102	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
IC103	XV013A00	IC	TB62705CF(EL)	LED DRIVER		04
-105	XV013A00	IC	TB62705CF(EL)	LED DRIVER		04
IC106	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
IC107	XV013A00	IC	TB62705CF(EL)	LED DRIVER		04
-109	XV013A00	IC	TB62705CF(EL)	LED DRIVER		04
IC110	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
IC201	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
IC202	XV013A00	IC	TB62705CF(EL)	LED DRIVER		04
-204	XV013A00	IC	TB62705CF(EL)	LED DRIVER		04
IC205	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
IC206	XV013A00	IC	TB62705CF(EL)	LED DRIVER		04
-208	XV013A00	IC	TB62705CF(EL)	LED DRIVER		04
* IC211	X2824A00	IC	HD6437042AF28	CPU		
IC212	XP226A00	IC	IC-PST591DMT	SYSTEM RESET		03
IC213	XD838A00	IC	SN74HC245NSR	TRANSCEIVER		04
IC214	XT163A00	IC	TC74HC238AF	DECODER		03
L201	VS740100	Chip Inductance	BLM21B751S 2125			03
-205	VS740100	Chip Inductance	BLM21B751S 2125			03
L206	GE300680	Ferrite Bead	BL01RN1-A62T5			02
* LD001	V3670100	LED Yellow/Green	LT1E40A	STEREO L -72		
* LD002	V3670100	LED Yellow/Green	LT1E40A	STEREO L -60		

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LD003	V3670100	LED Yellow/Green	LT1E40A	STEREO L -56		
* LD004	V3670100	LED Yellow/Green	LT1E40A	STEREO L -52		
* LD005	V3670100	LED Yellow/Green	LT1E40A	STEREO L -48		
* LD006	V3670100	LED Yellow/Green	LT1E40A	STEREO L -45		
* LD007	V3670100	LED Yellow/Green	LT1E40A	STEREO L -42		
* LD008	V3670100	LED Yellow/Green	LT1E40A	STEREO L -39		
* LD009	V3670100	LED Yellow/Green	LT1E40A	STEREO L -36		
* LD010	V3670100	LED Yellow/Green	LT1E40A	STEREO L -33		
* LD011	V3670100	LED Yellow/Green	LT1E40A	STEREO L -30		
* LD012	V3670100	LED Yellow/Green	LT1E40A	STEREO L -27		
* LD013	V3670100	LED Yellow/Green	LT1E40A	STEREO L -24		
* LD014	V3670100	LED Yellow/Green	LT1E40A	STEREO L -21		
* LD015	V3670200	LED Yellow	LT1H40A	STEREO L -18		
* LD016	V3670200	LED Yellow	LT1H40A	STEREO L -16		
* LD017	V3670200	LED Yellow	LT1H40A	STEREO L -14		
* LD018	V3670200	LED Yellow	LT1H40A	STEREO L -13		
* LD019	V3670200	LED Yellow	LT1H40A	STEREO L -12		
* LD020	V3670200	LED Yellow	LT1H40A	STEREO L -11		
* LD021	V3670200	LED Yellow	LT1H40A	STEREO L -10		
* LD022	V3670200	LED Yellow	LT1H40A	STEREO L -9		
* LD023	V3670200	LED Yellow	LT1H40A	STEREO L -8		
* LD024	V3670200	LED Yellow	LT1H40A	STEREO L -7		
* LD025	V3670200	LED Yellow	LT1H40A	STEREO L -6		
* LD026	V3670200	LED Yellow	LT1H40A	STEREO L -5		
* LD027	V3670200	LED Yellow	LT1H40A	STEREO L -4		
* LD028	V3670200	LED Yellow	LT1H40A	STEREO L -3		
* LD029	V3670200	LED Yellow	LT1H40A	STEREO L -2		
* LD030	V3670200	LED Yellow	LT1H40A	STEREO L -1		
* LD031	V3670200	LED Yellow	LT1H40A	STEREO L 0		
* LD032	V3670000	LED Red	LT1D40A	STEREO L OVER		
* LD033	V3670100	LED Yellow/Green	LT1E40A	STEREO R -72		
* LD034	V3670100	LED Yellow/Green	LT1E40A	STEREO R -60		
* LD035	V3670100	LED Yellow/Green	LT1E40A	STEREO R -56		
* LD036	V3670100	LED Yellow/Green	LT1E40A	STEREO R -52		
* LD037	V3670100	LED Yellow/Green	LT1E40A	STEREO R -48		
* LD038	V3670100	LED Yellow/Green	LT1E40A	STEREO R -45		
* LD039	V3670100	LED Yellow/Green	LT1E40A	STEREO R -42		
* LD040	V3670100	LED Yellow/Green	LT1E40A	STEREO R -39		
* LD041	V3670100	LED Yellow/Green	LT1E40A	STEREO R -36		
* LD042	V3670100	LED Yellow/Green	LT1E40A	STEREO R -33		
* LD043	V3670100	LED Yellow/Green	LT1E40A	STEREO R -30		
* LD044	V3670100	LED Yellow/Green	LT1E40A	STEREO R -27		
* LD045	V3670100	LED Yellow/Green	LT1E40A	STEREO R -24		
* LD046	V3670100	LED Yellow/Green	LT1E40A	STEREO R -21		
* LD047	V3670200	LED Yellow	LT1H40A	STEREO R -18		
* LD048	V3670200	LED Yellow	LT1H40A	STEREO R -16		
* LD049	V3670200	LED Yellow	LT1H40A	STEREO R -14		
* LD050	V3670200	LED Yellow	LT1H40A	STEREO R -13		
* LD051	V3670200	LED Yellow	LT1H40A	STEREO R -12		
* LD052	V3670200	LED Yellow	LT1H40A	STEREO R -11		
* LD053	V3670200	LED Yellow	LT1H40A	STEREO R -10		
* LD054	V3670200	LED Yellow	LT1H40A	STEREO R -9		
* LD055	V3670200	LED Yellow	LT1H40A	STEREO R -8		
* LD056	V3670200	LED Yellow	LT1H40A	STEREO R -7		
* LD057	V3670200	LED Yellow	LT1H40A	STEREO R -6		
* LD058	V3670200	LED Yellow	LT1H40A	STEREO R -5		
* LD059	V3670200	LED Yellow	LT1H40A	STEREO R -4		
* LD060	V3670200	LED Yellow	LT1H40A	STEREO R -3		
* LD061	V3670200	LED Yellow	LT1H40A	STEREO R -2		
* LD062	V3670200	LED Yellow	LT1H40A	STEREO R -1		
* LD063	V3670200	LED Yellow	LT1H40A	STEREO R 0		
* LD064	V3670000	LED Red	LT1D40A	STEREO R OVER		
* LD65	V7718600	LED Display	LB-502DD	MEASURE/H (TIME CODE)		
* LD66	V7718600	LED Display	LB-502DD	MEASURE/M (TIME CODE)		
* LD67	V7718600	LED Display	LB-502DD	BEAT/S (TIME CODE)		
* LD68	V7718600	LED Display	LB-502DD	CLOCK/F (TIME CODE)		
* LD069	V3670100	LED Yellow/Green	LT1E40A	1-48 (1)		
* LD070	V3670100	LED Yellow/Green	LT1E40A	49-96 (1)		
* LD071	V3670100	LED Yellow/Green	LT1E40A	1-24 (1)		
* LD072	V3670100	LED Yellow/Green	LT1E40A	25-48 (1)		

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LD073	V3670100	LED Yellow/Green	LT1E40A	49-72 (1)		
LD074	V3670100	LED Yellow/Green	LT1E40A	73-96 (1)		
* LD075	V3670100	LED Yellow/Green	LT1E40A	MASTER (1)		
* LD076	V3670100	LED Yellow/Green	LT1E40A	1-48 (2)		
* LD077	V3670100	LED Yellow/Green	LT1E40A	49-96 (2)		
LD078	V3670100	LED Yellow/Green	LT1E40A	1-24 (2)		
* LD079	V3670100	LED Yellow/Green	LT1E40A	25-48 (2)		
* LD080	V3670100	LED Yellow/Green	LT1E40A	49-72 (2)		
* LD081	V3670100	LED Yellow/Green	LT1E40A	73-96 (2)		
LD082	V3670100	LED Yellow/Green	LT1E40A	MASTER (2)		
* LD083	V3670100	LED Yellow/Green	LT1E40A	1-48 (3)		
* LD084	V3670100	LED Yellow/Green	LT1E40A	49-96 (3)		
* LD085	V3670100	LED Yellow/Green	LT1E40A	1-24 (3)		
LD086	V3670100	LED Yellow/Green	LT1E40A	25-48 (3)		
* LD087	V3670100	LED Yellow/Green	LT1E40A	49-72 (3)		
* LD088	V3670100	LED Yellow/Green	LT1E40A	73-96 (3)		
* LD089	V3670100	LED Yellow/Green	LT1E40A	MASTER (3)		
* LD090	V3670100	LED Yellow/Green	LT1E40A	PRE EQ (INPUT)		
* LD091	V3670100	LED Yellow/Green	LT1E40A	PRE FADER (INPUT)		
* LD092	V3670100	LED Yellow/Green	LT1E40A	POST FADER (INPUT)		
* LD093	V3670100	LED Yellow/Green	LT1E40A	1-48 (4)		
* LD094	V3670100	LED Yellow/Green	LT1E40A	49-96 (4)		
* LD095	V3670100	LED Yellow/Green	LT1E40A	1-24 (4)		
* LD096	V3670100	LED Yellow/Green	LT1E40A	25-48 (4)		
* LD097	V3670100	LED Yellow/Green	LT1E40A	49-72 (4)		
* LD098	V3670100	LED Yellow/Green	LT1E40A	73-96 (4)		
* LD099	V3670100	LED Yellow/Green	LT1E40A	MASTER (4)		
* LD101	V3670100	LED Yellow/Green	LT1E40A	CH1 1/49 -48		
* LD102	V3670100	LED Yellow/Green	LT1E40A	CH1 1/49 -36		
* LD103	V3670100	LED Yellow/Green	LT1E40A	CH1 1/49 -30		
* LD104	V3670100	LED Yellow/Green	LT1E40A	CH1 1/49 -24		
* LD105	V3670200	LED Yellow	LT1H40A	CH1 1/49 -18		
* LD106	V3670200	LED Yellow	LT1H40A	CH1 1/49 -15		
* LD107	V3670200	LED Yellow	LT1H40A	CH1 1/49 -12		
* LD108	V3670200	LED Yellow	LT1H40A	CH1 1/49 -9		
* LD109	V3670200	LED Yellow	LT1H40A	CH1 1/49 -6		
* LD110	V3670200	LED Yellow	LT1H40A	CH1 1/49 -3		
* LD111	V3670200	LED Yellow	LT1H40A	CH1 1/49 0		
* LD112	V3670000	LED Red	LT1D40A	CH1 1/49 OVER		
* LD113	V3670100	LED Yellow/Green	LT1E40A	CH1 2/50 -48		
* LD114	V3670100	LED Yellow/Green	LT1E40A	CH1 2/50 -36		
* LD115	V3670100	LED Yellow/Green	LT1E40A	CH1 2/50 -30		
* LD116	V3670100	LED Yellow/Green	LT1E40A	CH1 2/50 -24		
* LD117	V3670200	LED Yellow	LT1H40A	CH1 2/50 -18		
* LD118	V3670200	LED Yellow	LT1H40A	CH1 2/50 -15		
* LD119	V3670200	LED Yellow	LT1H40A	CH1 2/50 -12		
* LD120	V3670200	LED Yellow	LT1H40A	CH1 2/50 -9		
* LD121	V3670200	LED Yellow	LT1H40A	CH1 2/50 -6		
* LD122	V3670200	LED Yellow	LT1H40A	CH1 2/50 -3		
* LD123	V3670200	LED Yellow	LT1H40A	CH1 2/50 0		
* LD124	V3670000	LED Red	LT1D40A	CH1 2/50 OVER		
* LD201	V3670100	LED Yellow/Green	LT1E40A	CH2 3/51 -48		
* LD202	V3670100	LED Yellow/Green	LT1E40A	CH2 3/51 -36		
* LD203	V3670100	LED Yellow/Green	LT1E40A	CH2 3/51 -30		
* LD204	V3670100	LED Yellow/Green	LT1E40A	CH2 3/51 -24		
* LD205	V3670200	LED Yellow	LT1H40A	CH2 3/51 -18		
* LD206	V3670200	LED Yellow	LT1H40A	CH2 3/51 -15		
* LD207	V3670200	LED Yellow	LT1H40A	CH2 3/51 -12		
* LD208	V3670200	LED Yellow	LT1H40A	CH2 3/51 -9		
* LD209	V3670200	LED Yellow	LT1H40A	CH2 3/51 -6		
* LD210	V3670200	LED Yellow	LT1H40A	CH2 3/51 -3		
* LD211	V3670200	LED Yellow	LT1H40A	CH2 3/51 0		
* LD212	V3670000	LED Red	LT1D40A	CH2 3/51 OVER		
* LD213	V3670100	LED Yellow/Green	LT1E40A	CH2 4/52 -48		
* LD214	V3670100	LED Yellow/Green	LT1E40A	CH2 4/52 -36		
* LD215	V3670100	LED Yellow/Green	LT1E40A	CH2 4/52 -30		
* LD216	V3670100	LED Yellow/Green	LT1E40A	CH2 4/52 -24		
* LD217	V3670200	LED Yellow	LT1H40A	CH2 4/52 -18		
* LD218	V3670200	LED Yellow	LT1H40A	CH2 4/52 -15		
* LD219	V3670200	LED Yellow	LT1H40A	CH2 4/52 -12		

*: New Parts

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REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
* LD220	V3670200	LED Yellow	LT1H40A		CH2 4/52 -9
* LD221	V3670200	LED Yellow	LT1H40A		CH2 4/52 -6
* LD222	V3670200	LED Yellow	LT1H40A		CH2 4/52 -3
* LD223	V3670200	LED Yellow	LT1H40A		CH2 4/52 0
* LD224	V3670000	LED Red	LT1D40A		CH2 4/52 OVER
* LD301	V3670100	LED Yellow/Green	LT1E40A		CH3 5/53 -48
* LD302	V3670100	LED Yellow/Green	LT1E40A		CH3 5/53 -36
* LD303	V3670100	LED Yellow/Green	LT1E40A		CH3 5/53 -30
* LD304	V3670100	LED Yellow/Green	LT1E40A		CH3 5/53 -24
* LD305	V3670200	LED Yellow	LT1H40A		CH3 5/53 -18
* LD306	V3670200	LED Yellow	LT1H40A		CH3 5/53 -15
* LD307	V3670200	LED Yellow	LT1H40A		CH3 5/53 -12
* LD308	V3670200	LED Yellow	LT1H40A		CH3 5/53 -9
* LD309	V3670200	LED Yellow	LT1H40A		CH3 5/53 -6
* LD310	V3670200	LED Yellow	LT1H40A		CH3 5/53 -3
* LD311	V3670200	LED Yellow	LT1H40A		CH3 5/53 0
* LD312	V3670000	LED Red	LT1D40A		CH3 5/53 OVER
* LD313	V3670100	LED Yellow/Green	LT1E40A		CH3 6/54 -48
* LD314	V3670100	LED Yellow/Green	LT1E40A		CH3 6/54 -36
* LD315	V3670100	LED Yellow/Green	LT1E40A		CH3 6/54 -30
* LD316	V3670100	LED Yellow/Green	LT1E40A		CH3 6/54 -24
* LD317	V3670200	LED Yellow	LT1H40A		CH3 6/54 -18
* LD318	V3670200	LED Yellow	LT1H40A		CH3 6/54 -15
* LD319	V3670200	LED Yellow	LT1H40A		CH3 6/54 -12
* LD320	V3670200	LED Yellow	LT1H40A		CH3 6/54 -9
* LD321	V3670200	LED Yellow	LT1H40A		CH3 6/54 -6
* LD322	V3670200	LED Yellow	LT1H40A		CH3 6/54 -3
* LD323	V3670200	LED Yellow	LT1H40A		CH3 6/54 0
* LD324	V3670000	LED Red	LT1D40A		CH3 6/54 OVER
* LD401	V3670100	LED Yellow/Green	LT1E40A		CH4 7/55 -48
* LD402	V3670100	LED Yellow/Green	LT1E40A		CH4 7/55 -36
* LD403	V3670100	LED Yellow/Green	LT1E40A		CH4 7/55 -30
* LD404	V3670100	LED Yellow/Green	LT1E40A		CH4 7/55 -24
* LD405	V3670200	LED Yellow	LT1H40A		CH4 7/55 -18
* LD406	V3670200	LED Yellow	LT1H40A		CH4 7/55 -15
* LD407	V3670200	LED Yellow	LT1H40A		CH4 7/55 -12
* LD408	V3670200	LED Yellow	LT1H40A		CH4 7/55 -9
* LD409	V3670200	LED Yellow	LT1H40A		CH4 7/55 -6
* LD410	V3670200	LED Yellow	LT1H40A		CH4 7/55 -3
* LD411	V3670200	LED Yellow	LT1H40A		CH4 7/55 0
* LD412	V3670000	LED Red	LT1D40A		CH4 7/55 OVER
* LD413	V3670100	LED Yellow/Green	LT1E40A		CH4 8/56 -48
* LD414	V3670100	LED Yellow/Green	LT1E40A		CH4 8/56 -36
* LD415	V3670100	LED Yellow/Green	LT1E40A		CH4 8/56 -30
* LD416	V3670100	LED Yellow/Green	LT1E40A		CH4 8/56 -24
* LD417	V3670200	LED Yellow	LT1H40A		CH4 8/56 -18
* LD418	V3670200	LED Yellow	LT1H40A		CH4 8/56 -15
* LD419	V3670200	LED Yellow	LT1H40A		CH4 8/56 -12
* LD420	V3670200	LED Yellow	LT1H40A		CH4 8/56 -9
* LD421	V3670200	LED Yellow	LT1H40A		CH4 8/56 -6
* LD422	V3670200	LED Yellow	LT1H40A		CH4 8/56 -3
* LD423	V3670200	LED Yellow	LT1H40A		CH4 8/56 0
* LD424	V3670000	LED Red	LT1D40A		CH4 8/56 OVER
* LD455	V3670200	LED Yellow	LT1H40A		CONTROL ROOM
* LD501	V3670100	LED Yellow/Green	LT1E40A		CH5 9/57 -48
* LD502	V3670100	LED Yellow/Green	LT1E40A		CH5 9/57 -36
* LD503	V3670100	LED Yellow/Green	LT1E40A		CH5 9/57 -30
* LD504	V3670100	LED Yellow/Green	LT1E40A		CH5 9/57 -24
* LD505	V3670200	LED Yellow	LT1H40A		CH5 9/57 -18
* LD506	V3670200	LED Yellow	LT1H40A		CH5 9/57 -15
* LD507	V3670200	LED Yellow	LT1H40A		CH5 9/57 -12
* LD508	V3670200	LED Yellow	LT1H40A		CH5 9/57 -9
* LD509	V3670200	LED Yellow	LT1H40A		CH5 9/57 -6
* LD510	V3670200	LED Yellow	LT1H40A		CH5 9/57 -3
* LD511	V3670200	LED Yellow	LT1H40A		CH5 9/57 0
* LD512	V3670000	LED Red	LT1D40A		CH5 9/57 OVER
* LD513	V3670100	LED Yellow/Green	LT1E40A		CH5 10/58 -48
* LD514	V3670100	LED Yellow/Green	LT1E40A		CH5 10/58 -36
* LD515	V3670100	LED Yellow/Green	LT1E40A		CH5 10/58 -30
* LD516	V3670100	LED Yellow/Green	LT1E40A		CH5 10/58 -24

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LD517	V3670200	LED Yellow	LT1H40A	CH5 10/58 -18		
* LD518	V3670200	LED Yellow	LT1H40A	CH5 10/58 -15		
* LD519	V3670200	LED Yellow	LT1H40A	CH5 10/58 -12		
* LD520	V3670200	LED Yellow	LT1H40A	CH5 10/58 -9		
* LD521	V3670200	LED Yellow	LT1H40A	CH5 10/58 -6		
* LD522	V3670200	LED Yellow	LT1H40A	CH5 10/58 -3		
* LD523	V3670200	LED Yellow	LT1H40A	CH5 10/58 0		
* LD524	V3670000	LED Red	LT1D40A	CH5 10/58 OVER		
* LD601	V3670100	LED Yellow/Green	LT1E40A	CH6 11/59 -48		
* LD602	V3670100	LED Yellow/Green	LT1E40A	CH6 11/59 -36		
* LD603	V3670100	LED Yellow/Green	LT1E40A	CH6 11/59 -30		
* LD604	V3670100	LED Yellow/Green	LT1E40A	CH6 11/59 -24		
* LD605	V3670200	LED Yellow	LT1H40A	CH6 11/59 -18		
* LD606	V3670200	LED Yellow	LT1H40A	CH6 11/59 -15		
* LD607	V3670200	LED Yellow	LT1H40A	CH6 11/59 -12		
* LD608	V3670200	LED Yellow	LT1H40A	CH6 11/59 -9		
* LD609	V3670200	LED Yellow	LT1H40A	CH6 11/59 -6		
* LD610	V3670200	LED Yellow	LT1H40A	CH6 11/59 -3		
* LD611	V3670200	LED Yellow	LT1H40A	CH6 11/59 0		
* LD612	V3670000	LED Red	LT1D40A	CH6 11/59 OVER		
* LD613	V3670100	LED Yellow/Green	LT1E40A	CH6 12/60 -48		
* LD614	V3670100	LED Yellow/Green	LT1E40A	CH6 12/60 -36		
* LD615	V3670100	LED Yellow/Green	LT1E40A	CH6 12/60 -30		
* LD616	V3670100	LED Yellow/Green	LT1E40A	CH6 12/60 -24		
* LD617	V3670200	LED Yellow	LT1H40A	CH6 12/60 -18		
* LD618	V3670200	LED Yellow	LT1H40A	CH6 12/60 -15		
* LD619	V3670200	LED Yellow	LT1H40A	CH6 12/60 -12		
* LD620	V3670200	LED Yellow	LT1H40A	CH6 12/60 -9		
* LD621	V3670200	LED Yellow	LT1H40A	CH6 12/60 -6		
* LD622	V3670200	LED Yellow	LT1H40A	CH6 12/60 -3		
* LD623	V3670200	LED Yellow	LT1H40A	CH6 12/60 0		
* LD624	V3670000	LED Red	LT1D40A	CH6 12/60 OVER		
* LD701	V3670100	LED Yellow/Green	LT1E40A	CH7 13/61 -48		
* LD702	V3670100	LED Yellow/Green	LT1E40A	CH7 13/61 -36		
* LD703	V3670100	LED Yellow/Green	LT1E40A	CH7 13/61 -30		
* LD704	V3670100	LED Yellow/Green	LT1E40A	CH7 13/61 -24		
* LD705	V3670200	LED Yellow	LT1H40A	CH7 13/61 -18		
* LD706	V3670200	LED Yellow	LT1H40A	CH7 13/61 -15		
* LD707	V3670200	LED Yellow	LT1H40A	CH7 13/61 -12		
* LD708	V3670200	LED Yellow	LT1H40A	CH7 13/61 -9		
* LD709	V3670200	LED Yellow	LT1H40A	CH7 13/61 -6		
* LD710	V3670200	LED Yellow	LT1H40A	CH7 13/61 -3		
* LD711	V3670200	LED Yellow	LT1H40A	CH7 13/61 0		
* LD712	V3670000	LED Red	LT1D40A	CH7 13/61 OVER		
* LD713	V3670100	LED Yellow/Green	LT1E40A	CH7 14/62 -48		
* LD714	V3670100	LED Yellow/Green	LT1E40A	CH7 14/62 -36		
* LD715	V3670100	LED Yellow/Green	LT1E40A	CH7 14/62 -30		
* LD716	V3670100	LED Yellow/Green	LT1E40A	CH7 14/62 -24		
* LD717	V3670200	LED Yellow	LT1H40A	CH7 14/62 -18		
* LD718	V3670200	LED Yellow	LT1H40A	CH7 14/62 -15		
* LD719	V3670200	LED Yellow	LT1H40A	CH7 14/62 -12		
* LD720	V3670200	LED Yellow	LT1H40A	CH7 14/62 -9		
* LD721	V3670200	LED Yellow	LT1H40A	CH7 14/62 -6		
* LD722	V3670200	LED Yellow	LT1H40A	CH7 14/62 -3		
* LD723	V3670200	LED Yellow	LT1H40A	CH7 14/62 0		
* LD724	V3670000	LED Red	LT1D40A	CH7 14/62 OVER		
* LD801	V3670100	LED Yellow/Green	LT1E40A	CH8 15/63 -48		
* LD802	V3670100	LED Yellow/Green	LT1E40A	CH8 15/63 -36		
* LD803	V3670100	LED Yellow/Green	LT1E40A	CH8 15/63 -30		
* LD804	V3670100	LED Yellow/Green	LT1E40A	CH8 15/63 -24		
* LD805	V3670200	LED Yellow	LT1H40A	CH8 15/63 -18		
* LD806	V3670200	LED Yellow	LT1H40A	CH8 15/63 -15		
* LD807	V3670200	LED Yellow	LT1H40A	CH8 15/63 -12		
* LD808	V3670200	LED Yellow	LT1H40A	CH8 15/63 -9		
* LD809	V3670200	LED Yellow	LT1H40A	CH8 15/63 -6		
* LD810	V3670200	LED Yellow	LT1H40A	CH8 15/63 -3		
* LD811	V3670200	LED Yellow	LT1H40A	CH8 15/63 0		
* LD812	V3670000	LED Red	LT1D40A	CH8 15/63 OVER		
* LD813	V3670100	LED Yellow/Green	LT1E40A	CH8 16/64 -48		
* LD814	V3670100	LED Yellow/Green	LT1E40A	CH8 16/64 -36		

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LD815	V3670100	LED Yellow/Green	LT1E40A	CH8 16/64 -30		
* LD816	V3670100	LED Yellow/Green	LT1E40A	CH8 16/64 -24		
* LD817	V3670200	LED Yellow	LT1H40A	CH8 16/64 -18		
* LD818	V3670200	LED Yellow	LT1H40A	CH8 16/64 -15		
* LD819	V3670200	LED Yellow	LT1H40A	CH8 16/64 -12		
* LD820	V3670200	LED Yellow	LT1H40A	CH8 16/64 -9		
* LD821	V3670200	LED Yellow	LT1H40A	CH8 16/64 -6		
* LD822	V3670200	LED Yellow	LT1H40A	CH8 16/64 -3		
* LD823	V3670200	LED Yellow	LT1H40A	CH8 16/64 0		
* LD824	V3670000	LED Red	LT1D40A	CH8 16/64 OVER		
* LD901	V3670100	LED Yellow/Green	LT1E40A	CH9 17/65 -48		
* LD902	V3670100	LED Yellow/Green	LT1E40A	CH9 17/65 -36		
* LD903	V3670100	LED Yellow/Green	LT1E40A	CH9 17/65 -30		
* LD904	V3670100	LED Yellow/Green	LT1E40A	CH9 17/65 -24		
* LD905	V3670200	LED Yellow	LT1H40A	CH9 17/65 -18		
* LD906	V3670200	LED Yellow	LT1H40A	CH9 17/65 -15		
* LD907	V3670200	LED Yellow	LT1H40A	CH9 17/65 -12		
* LD908	V3670200	LED Yellow	LT1H40A	CH9 17/65 -9		
* LD909	V3670200	LED Yellow	LT1H40A	CH9 17/65 -6		
* LD910	V3670200	LED Yellow	LT1H40A	CH9 17/65 -3		
* LD911	V3670200	LED Yellow	LT1H40A	CH9 17/65 0		
* LD912	V3670000	LED Red	LT1D40A	CH9 17/65 OVER		
* LD913	V3670100	LED Yellow/Green	LT1E40A	CH9 18/66 -48		
* LD914	V3670100	LED Yellow/Green	LT1E40A	CH9 18/66 -36		
* LD915	V3670100	LED Yellow/Green	LT1E40A	CH9 18/66 -30		
* LD916	V3670100	LED Yellow/Green	LT1E40A	CH9 18/66 -24		
* LD917	V3670200	LED Yellow	LT1H40A	CH9 18/66 -18		
* LD918	V3670200	LED Yellow	LT1H40A	CH9 18/66 -15		
* LD919	V3670200	LED Yellow	LT1H40A	CH9 18/66 -12		
* LD920	V3670200	LED Yellow	LT1H40A	CH9 18/66 -9		
* LD921	V3670200	LED Yellow	LT1H40A	CH9 18/66 -6		
* LD922	V3670200	LED Yellow	LT1H40A	CH9 18/66 -3		
* LD923	V3670200	LED Yellow	LT1H40A	CH9 18/66 0		
* LD924	V3670000	LED Red	LT1D40A	CH9 18/66 OVER		
* LDA01	V3670100	LED Yellow/Green	LT1E40A	CH10 19/67 -48		
* LDA02	V3670100	LED Yellow/Green	LT1E40A	CH10 19/67 -36		
* LDA03	V3670100	LED Yellow/Green	LT1E40A	CH10 19/67 -30		
* LDA04	V3670100	LED Yellow/Green	LT1E40A	CH10 19/67 -24		
* LDA05	V3670200	LED Yellow	LT1H40A	CH10 19/67 -18		
* LDA06	V3670200	LED Yellow	LT1H40A	CH10 19/67 -15		
* LDA07	V3670200	LED Yellow	LT1H40A	CH10 19/67 -12		
* LDA08	V3670200	LED Yellow	LT1H40A	CH10 19/67 -9		
* LDA09	V3670200	LED Yellow	LT1H40A	CH10 19/67 -6		
* LDA10	V3670200	LED Yellow	LT1H40A	CH10 19/67 -3		
* LDA11	V3670200	LED Yellow	LT1H40A	CH10 19/67 0		
* LDA12	V3670000	LED Red	LT1D40A	CH10 19/67 OVER		
* LDA13	V3670100	LED Yellow/Green	LT1E40A	CH10 20/68 -48		
* LDA14	V3670100	LED Yellow/Green	LT1E40A	CH10 20/68 -36		
* LDA15	V3670100	LED Yellow/Green	LT1E40A	CH10 20/68 -30		
* LDA16	V3670100	LED Yellow/Green	LT1E40A	CH10 20/68 -24		
* LDA17	V3670200	LED Yellow	LT1H40A	CH10 20/68 -18		
* LDA18	V3670200	LED Yellow	LT1H40A	CH10 20/68 -15		
* LDA19	V3670200	LED Yellow	LT1H40A	CH10 20/68 -12		
* LDA20	V3670200	LED Yellow	LT1H40A	CH10 20/68 -9		
* LDA21	V3670200	LED Yellow	LT1H40A	CH10 20/68 -6		
* LDA22	V3670200	LED Yellow	LT1H40A	CH10 20/68 -3		
* LDA23	V3670200	LED Yellow	LT1H40A	CH10 20/68 0		
* LDA24	V3670000	LED Red	LT1D40A	CH10 20/68 OVER		
* LDB01	V3670100	LED Yellow/Green	LT1E40A	CH11 21/69 -48		
* LDB02	V3670100	LED Yellow/Green	LT1E40A	CH11 21/69 -36		
* LDB03	V3670100	LED Yellow/Green	LT1E40A	CH11 21/69 -30		
* LDB04	V3670100	LED Yellow/Green	LT1E40A	CH11 21/69 -24		
* LDB05	V3670200	LED Yellow	LT1H40A	CH11 21/69 -18		
* LDB06	V3670200	LED Yellow	LT1H40A	CH11 21/69 -15		
* LDB07	V3670200	LED Yellow	LT1H40A	CH11 21/69 -12		
* LDB08	V3670200	LED Yellow	LT1H40A	CH11 21/69 -9		
* LDB09	V3670200	LED Yellow	LT1H40A	CH11 21/69 -6		
* LDB10	V3670200	LED Yellow	LT1H40A	CH11 21/69 -3		
* LDB11	V3670200	LED Yellow	LT1H40A	CH11 21/69 0		
* LDB12	V3670000	LED Red	LT1D40A	CH11 21/69 OVER		

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LDB13	V3670100	LED Yellow/Green	LT1E40A	CH11 22/70 -48		
* LDB14	V3670100	LED Yellow/Green	LT1E40A	CH11 22/70 -36		
* LDB15	V3670100	LED Yellow/Green	LT1E40A	CH11 22/70 -30		
* LDB16	V3670100	LED Yellow/Green	LT1E40A	CH11 22/70 -24		
* LDB17	V3670200	LED Yellow	LT1H40A	CH11 22/70 -18		
* LDB18	V3670200	LED Yellow	LT1H40A	CH11 22/70 -15		
* LDB19	V3670200	LED Yellow	LT1H40A	CH11 22/70 -12		
* LDB20	V3670200	LED Yellow	LT1H40A	CH11 22/70 -9		
* LDB21	V3670200	LED Yellow	LT1H40A	CH11 22/70 -6		
* LDB22	V3670200	LED Yellow	LT1H40A	CH11 22/70 -3		
* LDB23	V3670200	LED Yellow	LT1H40A	CH11 22/70 0		
* LDB24	V3670000	LED Red	LT1D40A	CH11 22/70 OVER		
* LDC01	V3670100	LED Yellow/Green	LT1E40A	CH12 23/71 -48		
* LDC02	V3670100	LED Yellow/Green	LT1E40A	CH12 23/71 -36		
* LDC03	V3670100	LED Yellow/Green	LT1E40A	CH12 23/71 -30		
* LDC04	V3670100	LED Yellow/Green	LT1E40A	CH12 23/71 -24		
* LDC05	V3670200	LED Yellow	LT1H40A	CH12 23/71 -18		
* LDC06	V3670200	LED Yellow	LT1H40A	CH12 23/71 -15		
* LDC07	V3670200	LED Yellow	LT1H40A	CH12 23/71 -12		
* LDC08	V3670200	LED Yellow	LT1H40A	CH12 23/71 -9		
* LDC09	V3670200	LED Yellow	LT1H40A	CH12 23/71 -6		
* LDC10	V3670200	LED Yellow	LT1H40A	CH12 23/71 -3		
* LDC11	V3670200	LED Yellow	LT1H40A	CH12 23/71 0		
* LDC12	V3670000	LED Red	LT1D40A	CH12 23/71 OVER		
* LDC13	V3670100	LED Yellow/Green	LT1E40A	CH12 24/72 -48		
* LDC14	V3670100	LED Yellow/Green	LT1E40A	CH12 24/72 -36		
* LDC15	V3670100	LED Yellow/Green	LT1E40A	CH12 24/72 -30		
* LDC16	V3670100	LED Yellow/Green	LT1E40A	CH12 24/72 -24		
* LDC17	V3670200	LED Yellow	LT1H40A	CH12 24/72 -18		
* LDC18	V3670200	LED Yellow	LT1H40A	CH12 24/72 -15		
* LDC19	V3670200	LED Yellow	LT1H40A	CH12 24/72 -12		
* LDC20	V3670200	LED Yellow	LT1H40A	CH12 24/72 -9		
* LDC21	V3670200	LED Yellow	LT1H40A	CH12 24/72 -6		
* LDC22	V3670200	LED Yellow	LT1H40A	CH12 24/72 -3		
* LDC23	V3670200	LED Yellow	LT1H40A	CH12 24/72 0		
* LDC24	V3670000	LED Red	LT1D40A	CH12 24/72 OVER		
* LDD01	V3670100	LED Yellow/Green	LT1E40A	CH13 25/73 -48		
* LDD02	V3670100	LED Yellow/Green	LT1E40A	CH13 25/73 -36		
* LDD03	V3670100	LED Yellow/Green	LT1E40A	CH13 25/73 -30		
* LDD04	V3670100	LED Yellow/Green	LT1E40A	CH13 25/73 -24		
* LDD05	V3670200	LED Yellow	LT1H40A	CH13 25/73 -18		
* LDD06	V3670200	LED Yellow	LT1H40A	CH13 25/73 -15		
* LDD07	V3670200	LED Yellow	LT1H40A	CH13 25/73 -12		
* LDD08	V3670200	LED Yellow	LT1H40A	CH13 25/73 -9		
* LDD09	V3670200	LED Yellow	LT1H40A	CH13 25/73 -6		
* LDD10	V3670200	LED Yellow	LT1H40A	CH13 25/73 -3		
* LDD11	V3670200	LED Yellow	LT1H40A	CH13 25/73 0		
* LDD12	V3670000	LED Red	LT1D40A	CH13 25/73 OVER		
* LDD13	V3670100	LED Yellow/Green	LT1E40A	CH13 26/74 -48		
* LDD14	V3670100	LED Yellow/Green	LT1E40A	CH13 26/74 -36		
* LDD15	V3670100	LED Yellow/Green	LT1E40A	CH13 26/74 -30		
* LDD16	V3670100	LED Yellow/Green	LT1E40A	CH13 26/74 -24		
* LDD17	V3670200	LED Yellow	LT1H40A	CH13 26/74 -18		
* LDD18	V3670200	LED Yellow	LT1H40A	CH13 26/74 -15		
* LDD19	V3670200	LED Yellow	LT1H40A	CH13 26/74 -12		
* LDD20	V3670200	LED Yellow	LT1H40A	CH13 26/74 -9		
* LDD21	V3670200	LED Yellow	LT1H40A	CH13 26/74 -6		
* LDD22	V3670200	LED Yellow	LT1H40A	CH13 26/74 -3		
* LDD23	V3670200	LED Yellow	LT1H40A	CH13 26/74 0		
* LDD24	V3670000	LED Red	LT1D40A	CH13 26/74 OVER		
* LDE01	V3670100	LED Yellow/Green	LT1E40A	CH14 27/75 -48		
* LDE02	V3670100	LED Yellow/Green	LT1E40A	CH14 27/75 -36		
* LDE03	V3670100	LED Yellow/Green	LT1E40A	CH14 27/75 -30		
* LDE04	V3670100	LED Yellow/Green	LT1E40A	CH14 27/75 -24		
* LDE05	V3670200	LED Yellow	LT1H40A	CH14 27/75 -18		
* LDE06	V3670200	LED Yellow	LT1H40A	CH14 27/75 -15		
* LDE07	V3670200	LED Yellow	LT1H40A	CH14 27/75 -12		
* LDE08	V3670200	LED Yellow	LT1H40A	CH14 27/75 -9		
* LDE09	V3670200	LED Yellow	LT1H40A	CH14 27/75 -6		
* LDE10	V3670200	LED Yellow	LT1H40A	CH14 27/75 -3		

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REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
* LDE11	V3670200	LED Yellow	LT1H40A		CH14 27/75 0
* LDE12	V3670000	LED Red	LT1D40A		CH14 27/75 OVER
* LDE13	V3670100	LED Yellow/Green	LT1E40A		CH14 28/76 -48
* LDE14	V3670100	LED Yellow/Green	LT1E40A		CH14 28/76 -36
* LDE15	V3670100	LED Yellow/Green	LT1E40A		CH14 28/76 -30
* LDE16	V3670100	LED Yellow/Green	LT1E40A		CH14 28/76 -24
* LDE17	V3670200	LED Yellow	LT1H40A		CH14 28/76 -18
* LDE18	V3670200	LED Yellow	LT1H40A		CH14 28/76 -15
* LDE19	V3670200	LED Yellow	LT1H40A		CH14 28/76 -12
* LDE20	V3670200	LED Yellow	LT1H40A		CH14 28/76 -9
* LDE21	V3670200	LED Yellow	LT1H40A		CH14 28/76 -6
* LDE22	V3670200	LED Yellow	LT1H40A		CH14 28/76 -3
* LDE23	V3670200	LED Yellow	LT1H40A		CH14 28/76 0
* LDE24	V3670000	LED Red	LT1D40A		CH14 28/76 OVER
* LDF01	V3670100	LED Yellow/Green	LT1E40A		CH15 29/77 -48
* LDF02	V3670100	LED Yellow/Green	LT1E40A		CH15 29/77 -36
* LDF03	V3670100	LED Yellow/Green	LT1E40A		CH15 29/77 -30
* LDF04	V3670100	LED Yellow/Green	LT1E40A		CH15 29/77 -24
* LDF05	V3670200	LED Yellow	LT1H40A		CH15 29/77 -18
* LDF06	V3670200	LED Yellow	LT1H40A		CH15 29/77 -15
* LDF07	V3670200	LED Yellow	LT1H40A		CH15 29/77 -12
* LDF08	V3670200	LED Yellow	LT1H40A		CH15 29/77 -9
* LDF09	V3670200	LED Yellow	LT1H40A		CH15 29/77 -6
* LDF10	V3670200	LED Yellow	LT1H40A		CH15 29/77 -3
* LDF11	V3670200	LED Yellow	LT1H40A		CH15 29/77 0
* LDF12	V3670000	LED Red	LT1D40A		CH15 29/77 OVER
* LDF13	V3670100	LED Yellow/Green	LT1E40A		CH15 30/78 -48
* LDF14	V3670100	LED Yellow/Green	LT1E40A		CH15 30/78 -36
* LDF15	V3670100	LED Yellow/Green	LT1E40A		CH15 30/78 -30
* LDF16	V3670100	LED Yellow/Green	LT1E40A		CH15 30/78 -24
* LDF17	V3670200	LED Yellow	LT1H40A		CH15 30/78 -18
* LDF18	V3670200	LED Yellow	LT1H40A		CH15 30/78 -15
* LDF19	V3670200	LED Yellow	LT1H40A		CH15 30/78 -12
* LDF20	V3670200	LED Yellow	LT1H40A		CH15 30/78 -9
* LDF21	V3670200	LED Yellow	LT1H40A		CH15 30/78 -6
* LDF22	V3670200	LED Yellow	LT1H40A		CH15 30/78 -3
* LDF23	V3670200	LED Yellow	LT1H40A		CH15 30/78 0
* LDF24	V3670000	LED Red	LT1D40A		CH15 30/78 OVER
* LDG01	V3670100	LED Yellow/Green	LT1E40A		CH16 31/79 -48
* LDG02	V3670100	LED Yellow/Green	LT1E40A		CH16 31/79 -36
* LDG03	V3670100	LED Yellow/Green	LT1E40A		CH16 31/79 -30
* LDG04	V3670100	LED Yellow/Green	LT1E40A		CH16 31/79 -24
* LDG05	V3670200	LED Yellow	LT1H40A		CH16 31/79 -18
* LDG06	V3670200	LED Yellow	LT1H40A		CH16 31/79 -15
* LDG07	V3670200	LED Yellow	LT1H40A		CH16 31/79 -12
* LDG08	V3670200	LED Yellow	LT1H40A		CH16 31/79 -9
* LDG09	V3670200	LED Yellow	LT1H40A		CH16 31/79 -6
* LDG10	V3670200	LED Yellow	LT1H40A		CH16 31/79 -3
* LDG11	V3670200	LED Yellow	LT1H40A		CH16 31/79 0
* LDG12	V3670000	LED Red	LT1D40A		CH16 31/79 OVER
* LDG13	V3670100	LED Yellow/Green	LT1E40A		CH16 32/80 -48
* LDG14	V3670100	LED Yellow/Green	LT1E40A		CH16 32/80 -36
* LDG15	V3670100	LED Yellow/Green	LT1E40A		CH16 32/80 -30
* LDG16	V3670100	LED Yellow/Green	LT1E40A		CH16 32/80 -24
* LDG17	V3670200	LED Yellow	LT1H40A		CH16 32/80 -18
* LDG18	V3670200	LED Yellow	LT1H40A		CH16 32/80 -15
* LDG19	V3670200	LED Yellow	LT1H40A		CH16 32/80 -12
* LDG20	V3670200	LED Yellow	LT1H40A		CH16 32/80 -9
* LDG21	V3670200	LED Yellow	LT1H40A		CH16 32/80 -6
* LDG22	V3670200	LED Yellow	LT1H40A		CH16 32/80 -3
* LDG23	V3670200	LED Yellow	LT1H40A		CH16 32/80 0
* LDG24	V3670000	LED Red	LT1D40A		CH16 32/80 OVER
* LDH01	V3670100	LED Yellow/Green	LT1E40A		CH17 33/81 -48
* LDH02	V3670100	LED Yellow/Green	LT1E40A		CH17 33/81 -36
* LDH03	V3670100	LED Yellow/Green	LT1E40A		CH17 33/81 -30
* LDH04	V3670100	LED Yellow/Green	LT1E40A		CH17 33/81 -24
* LDH05	V3670200	LED Yellow	LT1H40A		CH17 33/81 -18
* LDH06	V3670200	LED Yellow	LT1H40A		CH17 33/81 -15
* LDH07	V3670200	LED Yellow	LT1H40A		CH17 33/81 -12
* LDH08	V3670200	LED Yellow	LT1H40A		CH17 33/81 -9

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LDH09	V3670200	LED Yellow	LT1H40A	CH17 33/81 -6		
* LDH10	V3670200	LED Yellow	LT1H40A	CH17 33/81 -3		
* LDH11	V3670200	LED Yellow	LT1H40A	CH17 33/81 0		
* LDH12	V3670000	LED Red	LT1D40A	CH17 33/81 OVER		
* LDH13	V3670100	LED Yellow/Green	LT1E40A	CH17 34/82 -48		
* LDH14	V3670100	LED Yellow/Green	LT1E40A	CH17 34/82 -36		
* LDH15	V3670100	LED Yellow/Green	LT1E40A	CH17 34/82 -30		
* LDH16	V3670100	LED Yellow/Green	LT1E40A	CH17 34/82 -24		
* LDH17	V3670200	LED Yellow	LT1H40A	CH17 34/82 -18		
* LDH18	V3670200	LED Yellow	LT1H40A	CH17 34/82 -15		
* LDH19	V3670200	LED Yellow	LT1H40A	CH17 34/82 -12		
* LDH20	V3670200	LED Yellow	LT1H40A	CH17 34/82 -9		
* LDH21	V3670200	LED Yellow	LT1H40A	CH17 34/82 -6		
* LDH22	V3670200	LED Yellow	LT1H40A	CH17 34/82 -3		
* LDH23	V3670200	LED Yellow	LT1H40A	CH17 34/82 0		
* LDH24	V3670000	LED Red	LT1D40A	CH17 34/82 OVER		
* LDJ01	V3670100	LED Yellow/Green	LT1E40A	CH18 35/83 -48		
* LDJ02	V3670100	LED Yellow/Green	LT1E40A	CH18 35/83 -36		
* LDJ03	V3670100	LED Yellow/Green	LT1E40A	CH18 35/83 -30		
* LDJ04	V3670100	LED Yellow/Green	LT1E40A	CH18 35/83 -24		
* LDJ05	V3670200	LED Yellow	LT1H40A	CH18 35/83 -18		
* LDJ06	V3670200	LED Yellow	LT1H40A	CH18 35/83 -15		
* LDJ07	V3670200	LED Yellow	LT1H40A	CH18 35/83 -12		
* LDJ08	V3670200	LED Yellow	LT1H40A	CH18 35/83 -9		
* LDJ09	V3670200	LED Yellow	LT1H40A	CH18 35/83 -6		
* LDJ10	V3670200	LED Yellow	LT1H40A	CH18 35/83 -3		
* LDJ11	V3670200	LED Yellow	LT1H40A	CH18 35/83 0		
* LDJ12	V3670000	LED Red	LT1D40A	CH18 35/83 OVER		
* LDJ13	V3670100	LED Yellow/Green	LT1E40A	CH18 36/84 -48		
* LDJ14	V3670100	LED Yellow/Green	LT1E40A	CH18 36/84 -36		
* LDJ15	V3670100	LED Yellow/Green	LT1E40A	CH18 36/84 -30		
* LDJ16	V3670100	LED Yellow/Green	LT1E40A	CH18 36/84 -24		
* LDJ17	V3670200	LED Yellow	LT1H40A	CH18 36/84 -18		
* LDJ18	V3670200	LED Yellow	LT1H40A	CH18 36/84 -15		
* LDJ19	V3670200	LED Yellow	LT1H40A	CH18 36/84 -12		
* LDJ20	V3670200	LED Yellow	LT1H40A	CH18 36/84 -9		
* LDJ21	V3670200	LED Yellow	LT1H40A	CH18 36/84 -6		
* LDJ22	V3670200	LED Yellow	LT1H40A	CH18 36/84 -3		
* LDJ23	V3670200	LED Yellow	LT1H40A	CH18 36/84 0		
* LDJ24	V3670000	LED Red	LT1D40A	CH18 36/84 OVER		
* LDK01	V3670100	LED Yellow/Green	LT1E40A	CH19 37/85 -48		
* LDK02	V3670100	LED Yellow/Green	LT1E40A	CH19 37/85 -36		
* LDK03	V3670100	LED Yellow/Green	LT1E40A	CH19 37/85 -30		
* LDK04	V3670100	LED Yellow/Green	LT1E40A	CH19 37/85 -24		
* LDK05	V3670200	LED Yellow	LT1H40A	CH19 37/85 -18		
* LDK06	V3670200	LED Yellow	LT1H40A	CH19 37/85 -15		
* LDK07	V3670200	LED Yellow	LT1H40A	CH19 37/85 -12		
* LDK08	V3670200	LED Yellow	LT1H40A	CH19 37/85 -9		
* LDK09	V3670200	LED Yellow	LT1H40A	CH19 37/85 -6		
* LDK10	V3670200	LED Yellow	LT1H40A	CH19 37/85 -3		
* LDK11	V3670200	LED Yellow	LT1H40A	CH19 37/85 0		
* LDK12	V3670000	LED Red	LT1D40A	CH19 37/85 OVER		
* LDK13	V3670100	LED Yellow/Green	LT1E40A	CH19 38/86 -48		
* LDK14	V3670100	LED Yellow/Green	LT1E40A	CH19 38/86 -36		
* LDK15	V3670100	LED Yellow/Green	LT1E40A	CH19 38/86 -30		
* LDK16	V3670100	LED Yellow/Green	LT1E40A	CH19 38/86 -24		
* LDK17	V3670200	LED Yellow	LT1H40A	CH19 38/86 -18		
* LDK18	V3670200	LED Yellow	LT1H40A	CH19 38/86 -15		
* LDK19	V3670200	LED Yellow	LT1H40A	CH19 38/86 -12		
* LDK20	V3670200	LED Yellow	LT1H40A	CH19 38/86 -9		
* LDK21	V3670200	LED Yellow	LT1H40A	CH19 38/86 -6		
* LDK22	V3670200	LED Yellow	LT1H40A	CH19 38/86 -3		
* LDK23	V3670200	LED Yellow	LT1H40A	CH19 38/86 0		
* LDK24	V3670000	LED Red	LT1D40A	CH19 38/86 OVER		
* LDL01	V3670100	LED Yellow/Green	LT1E40A	CH20 39/87 -48		
* LDL02	V3670100	LED Yellow/Green	LT1E40A	CH20 39/87 -36		
* LDL03	V3670100	LED Yellow/Green	LT1E40A	CH20 39/87 -30		
* LDL04	V3670100	LED Yellow/Green	LT1E40A	CH20 39/87 -24		
* LDL05	V3670200	LED Yellow	LT1H40A	CH20 39/87 -18		
* LDL06	V3670200	LED Yellow	LT1H40A	CH20 39/87 -15		

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LDL07	V3670200	LED Yellow	LT1H40A	CH20 39/87 -12		
* LDL08	V3670200	LED Yellow	LT1H40A	CH20 39/87 -9		
* LDL09	V3670200	LED Yellow	LT1H40A	CH20 39/87 -6		
* LDL10	V3670200	LED Yellow	LT1H40A	CH20 39/87 -3		
* LDL11	V3670200	LED Yellow	LT1H40A	CH20 39/87 0		
* LDL12	V3670000	LED Red	LT1D40A	CH20 39/87 OVER		
* LDL13	V3670100	LED Yellow/Green	LT1E40A	CH20 40/88 -48		
* LDL14	V3670100	LED Yellow/Green	LT1E40A	CH20 40/88 -36		
* LDL15	V3670100	LED Yellow/Green	LT1E40A	CH20 40/88 -30		
* LDL16	V3670100	LED Yellow/Green	LT1E40A	CH20 40/88 -24		
* LDL17	V3670200	LED Yellow	LT1H40A	CH20 40/88 -18		
* LDL18	V3670200	LED Yellow	LT1H40A	CH20 40/88 -15		
* LDL19	V3670200	LED Yellow	LT1H40A	CH20 40/88 -12		
* LDL20	V3670200	LED Yellow	LT1H40A	CH20 40/88 -9		
* LDL21	V3670200	LED Yellow	LT1H40A	CH20 40/88 -6		
* LDL22	V3670200	LED Yellow	LT1H40A	CH20 40/88 -3		
* LDL23	V3670200	LED Yellow	LT1H40A	CH20 40/88 0		
* LDL24	V3670000	LED Red	LT1D40A	CH20 40/88 OVER		
* LDM01	V3670100	LED Yellow/Green	LT1E40A	CH21 41/89 -48		
* LDM02	V3670100	LED Yellow/Green	LT1E40A	CH21 41/89 -36		
* LDM03	V3670100	LED Yellow/Green	LT1E40A	CH21 41/89 -30		
* LDM04	V3670100	LED Yellow/Green	LT1E40A	CH21 41/89 -24		
* LDM05	V3670200	LED Yellow	LT1H40A	CH21 41/89 -18		
* LDM06	V3670200	LED Yellow	LT1H40A	CH21 41/89 -15		
* LDM07	V3670200	LED Yellow	LT1H40A	CH21 41/89 -12		
* LDM08	V3670200	LED Yellow	LT1H40A	CH21 41/89 -9		
* LDM09	V3670200	LED Yellow	LT1H40A	CH21 41/89 -6		
* LDM10	V3670200	LED Yellow	LT1H40A	CH21 41/89 -3		
* LDM11	V3670200	LED Yellow	LT1H40A	CH21 41/89 0		
* LDM12	V3670000	LED Red	LT1D40A	CH21 41/89 OVER		
* LDM13	V3670100	LED Yellow/Green	LT1E40A	CH21 42/90 -48		
* LDM14	V3670100	LED Yellow/Green	LT1E40A	CH21 42/90 -36		
* LDM15	V3670100	LED Yellow/Green	LT1E40A	CH21 42/90 -30		
* LDM16	V3670100	LED Yellow/Green	LT1E40A	CH21 42/90 -24		
* LDM17	V3670200	LED Yellow	LT1H40A	CH21 42/90 -18		
* LDM18	V3670200	LED Yellow	LT1H40A	CH21 42/90 -15		
* LDM19	V3670200	LED Yellow	LT1H40A	CH21 42/90 -12		
* LDM20	V3670200	LED Yellow	LT1H40A	CH21 42/90 -9		
* LDM21	V3670200	LED Yellow	LT1H40A	CH21 42/90 -6		
* LDM22	V3670200	LED Yellow	LT1H40A	CH21 42/90 -3		
* LDM23	V3670200	LED Yellow	LT1H40A	CH21 42/90 0		
* LDM24	V3670000	LED Red	LT1D40A	CH21 42/90 OVER		
* LDN01	V3670100	LED Yellow/Green	LT1E40A	CH22 43/91 -48		
* LDN02	V3670100	LED Yellow/Green	LT1E40A	CH22 43/91 -36		
* LDN03	V3670100	LED Yellow/Green	LT1E40A	CH22 43/91 -30		
* LDN04	V3670100	LED Yellow/Green	LT1E40A	CH22 43/91 -24		
* LDN05	V3670200	LED Yellow	LT1H40A	CH22 43/91 -18		
* LDN06	V3670200	LED Yellow	LT1H40A	CH22 43/91 -15		
* LDN07	V3670200	LED Yellow	LT1H40A	CH22 43/91 -12		
* LDN08	V3670200	LED Yellow	LT1H40A	CH22 43/91 -9		
* LDN09	V3670200	LED Yellow	LT1H40A	CH22 43/91 -6		
* LDN10	V3670200	LED Yellow	LT1H40A	CH22 43/91 -3		
* LDN11	V3670200	LED Yellow	LT1H40A	CH22 43/91 0		
* LDN12	V3670000	LED Red	LT1D40A	CH22 43/91 OVER		
* LDN13	V3670100	LED Yellow/Green	LT1E40A	CH22 44/92 -48		
* LDN14	V3670100	LED Yellow/Green	LT1E40A	CH22 44/92 -36		
* LDN15	V3670100	LED Yellow/Green	LT1E40A	CH22 44/92 -30		
* LDN16	V3670100	LED Yellow/Green	LT1E40A	CH22 44/92 -24		
* LDN17	V3670200	LED Yellow	LT1H40A	CH22 44/92 -18		
* LDN18	V3670200	LED Yellow	LT1H40A	CH22 44/92 -15		
* LDN19	V3670200	LED Yellow	LT1H40A	CH22 44/92 -12		
* LDN20	V3670200	LED Yellow	LT1H40A	CH22 44/92 -9		
* LDN21	V3670200	LED Yellow	LT1H40A	CH22 44/92 -6		
* LDN22	V3670200	LED Yellow	LT1H40A	CH22 44/92 -3		
* LDN23	V3670200	LED Yellow	LT1H40A	CH22 44/92 0		
* LDN24	V3670000	LED Red	LT1D40A	CH22 44/92 OVER		
* LDP01	V3670100	LED Yellow/Green	LT1E40A	CH23 45/93 -48		
* LDP02	V3670100	LED Yellow/Green	LT1E40A	CH23 45/93 -36		
* LDP03	V3670100	LED Yellow/Green	LT1E40A	CH23 45/93 -30		
* LDP04	V3670100	LED Yellow/Green	LT1E40A	CH23 45/93 -24		

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LDP05	V3670200	LED Yellow	LT1H40A	CH23 45/93 -18		
* LDP06	V3670200	LED Yellow	LT1H40A	CH23 45/93 -15		
* LDP07	V3670200	LED Yellow	LT1H40A	CH23 45/93 -12		
* LDP08	V3670200	LED Yellow	LT1H40A	CH23 45/93 -9		
* LDP09	V3670200	LED Yellow	LT1H40A	CH23 45/93 -6		
* LDP10	V3670200	LED Yellow	LT1H40A	CH23 45/93 -3		
* LDP11	V3670200	LED Yellow	LT1H40A	CH23 45/93 0		
* LDP12	V3670000	LED Red	LT1D40A	CH23 45/93 OVER		
* LDP13	V3670100	LED Yellow/Green	LT1E40A	CH23 46/94 -48		
* LDP14	V3670100	LED Yellow/Green	LT1E40A	CH23 46/94 -36		
* LDP15	V3670100	LED Yellow/Green	LT1E40A	CH23 46/94 -30		
* LDP16	V3670100	LED Yellow/Green	LT1E40A	CH23 46/94 -24		
* LDP17	V3670200	LED Yellow	LT1H40A	CH23 46/94 -18		
* LDP18	V3670200	LED Yellow	LT1H40A	CH23 46/94 -15		
* LDP19	V3670200	LED Yellow	LT1H40A	CH23 46/94 -12		
* LDP20	V3670200	LED Yellow	LT1H40A	CH23 46/94 -9		
* LDP21	V3670200	LED Yellow	LT1H40A	CH23 46/94 -6		
* LDP22	V3670200	LED Yellow	LT1H40A	CH23 46/94 -3		
* LDP23	V3670200	LED Yellow	LT1H40A	CH23 46/94 0		
* LDP24	V3670000	LED Red	LT1D40A	CH23 46/94 OVER		
* LDQ01	V3670100	LED Yellow/Green	LT1E40A	CH24 47/95 -48		
* LDQ02	V3670100	LED Yellow/Green	LT1E40A	CH24 47/95 -36		
* LDQ03	V3670100	LED Yellow/Green	LT1E40A	CH24 47/95 -30		
* LDQ04	V3670100	LED Yellow/Green	LT1E40A	CH24 47/95 -24		
* LDQ05	V3670200	LED Yellow	LT1H40A	CH24 47/95 -18		
* LDQ06	V3670200	LED Yellow	LT1H40A	CH24 47/95 -15		
* LDQ07	V3670200	LED Yellow	LT1H40A	CH24 47/95 -12		
* LDQ08	V3670200	LED Yellow	LT1H40A	CH24 47/95 -9		
* LDQ09	V3670200	LED Yellow	LT1H40A	CH24 47/95 -6		
* LDQ10	V3670200	LED Yellow	LT1H40A	CH24 47/95 -3		
* LDQ11	V3670200	LED Yellow	LT1H40A	CH24 47/95 0		
* LDQ12	V3670000	LED Red	LT1D40A	CH24 47/95 OVER		
* LDQ13	V3670100	LED Yellow/Green	LT1E40A	CH24 48/96 -48		
* LDQ14	V3670100	LED Yellow/Green	LT1E40A	CH24 48/96 -36		
* LDQ15	V3670100	LED Yellow/Green	LT1E40A	CH24 48/96 -30		
* LDQ16	V3670100	LED Yellow/Green	LT1E40A	CH24 48/96 -24		
* LDQ17	V3670200	LED Yellow	LT1H40A	CH24 48/96 -18		
* LDQ18	V3670200	LED Yellow	LT1H40A	CH24 48/96 -15		
* LDQ19	V3670200	LED Yellow	LT1H40A	CH24 48/96 -12		
* LDQ20	V3670200	LED Yellow	LT1H40A	CH24 48/96 -9		
* LDQ21	V3670200	LED Yellow	LT1H40A	CH24 48/96 -6		
* LDQ22	V3670200	LED Yellow	LT1H40A	CH24 48/96 -3		
* LDQ23	V3670200	LED Yellow	LT1H40A	CH24 48/96 0		
* LDQ24	V3670000	LED Red	LT1D40A	CH24 48/96 OVER		
* LDR01	V3670100	LED Yellow/Green	LT1E40A	1-48		
* LDR02	V3670100	LED Yellow/Green	LT1E40A	49-96		
* LDR03	V3670100	LED Yellow/Green	LT1E40A	1-24		
* LDR04	V3670100	LED Yellow/Green	LT1E40A	25-48		
* LDR05	V3670100	LED Yellow/Green	LT1E40A	49-72		
* LDR06	V3670100	LED Yellow/Green	LT1E40A	73-96		
* LDR07	V3670100	LED Yellow/Green	LT1E40A	MASTER		
* LDR08	V3670100	LED Yellow/Green	LT1E40A	PRE EQ (OUTPUT)		
* LDR09	V3670100	LED Yellow/Green	LT1E40A	PRE FADER (OUTPUT)		
* LDR10	V3670100	LED Yellow/Green	LT1E40A	POST FADER (OUTPUT)		
* LDR11	V3670200	LED Yellow	LT1H40A	PEAK HOLD		
* LDR12	V3670100	LED Yellow/Green	LT1E40A	REMOTE1		
* LDR13	V3670100	LED Yellow/Green	LT1E40A	REMOTE2		
* LDR14	V3670100	LED Yellow/Green	LT1E40A	REMOTE3		
* LDR15	V3670100	LED Yellow/Green	LT1E40A	REMOTE4		
R101	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-104	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R105	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
-107	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R108	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-115	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R116	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
-118	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R119	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-126	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R128	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
-130	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R201	RD256300	Carbon Resistor (chip)	3.0K 0.1 J			01
R202	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-205	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R206	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
-208	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R209	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
-220	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
R221	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
-223	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
R227	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R228	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R230	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R232	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
R233	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R234	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R235	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
R236	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R237	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
R238	RD256300	Carbon Resistor (chip)	3.0K 0.1 J			01
R239	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
R250	RD156100	Carbon Resistor (chip)	1.0K 1/4 J			01
RA101	RE047100	Resistor Array	10KX4			01
RA102	RE046220	Resistor Array	2.2KX4			01
-107	RE046220	Resistor Array	2.2KX4			01
RA201	RE046220	Resistor Array	2.2KX4			01
-204	RE046220	Resistor Array	2.2KX4			01
RA205	RE047100	Resistor Array	10KX4			01
-225	RE047100	Resistor Array	10KX4			01
SW101	VV056000	Tact Switch	SKQNAED010	INPUT METERING POSITION		01
SW201	VV056000	Tact Switch	SKQNAED010	1-48		01
SW202	VV056000	Tact Switch	SKQNAED010	OUTPUT METERING POSITION		01
SW203	VV056000	Tact Switch	SKQNAED010	REMOTE1		01
SW204	VV056000	Tact Switch	SKQNAED010	49-96		01
SW205	VV056000	Tact Switch	SKQNAED010	REMOTE2		01
SW206	VV056000	Tact Switch	SKQNAED010	1-24		01
SW207	VV056000	Tact Switch	SKQNAED010	REMOTE3		01
SW208	VV056000	Tact Switch	SKQNAED010	25-48		01
SW209	VV056000	Tact Switch	SKQNAED010	PEAK HOLD		01
SW210	VV056000	Tact Switch	SKQNAED010	REMOTE4		01
SW211	VV056000	Tact Switch	SKQNAED010	49-72		01
SW212	VV056000	Tact Switch	SKQNAED010	CONTROL ROOM		01
SW213	VV056000	Tact Switch	SKQNAED010	73-96		01
SW214	VV056000	Tact Switch	SKQNAED010	MASTER		01
TA201	VQ248500	Transistor Array	TD62381F			04
VR201	V3820700	Rotary Variable Resistor	B 10K RK09K1130A5R	LAMP DIMMER		01
* W102	V8393000	Jumper Wire	FVP=2.0C26SB10-200			
* W201	V8393100	Jumper Wire	FVP=2.0C26SB17-200			
X201	V3719200	Quartz Crystal Unit	6.7584MHz SMD-49			03
	VA728100	Cannon Connector	XLR-4-31-F77	LAMP		10
*	V6552600	DSUB Cable	DSUB15P 0.5m			

*: New Parts

RANK: Japan only

WOODEN SIDE PANELS

SP2000

PARTS LIST


■ CONTENTS

OVERALL ASSEMBLY 2
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Notes : DESTINATION ABBREVIATIONS

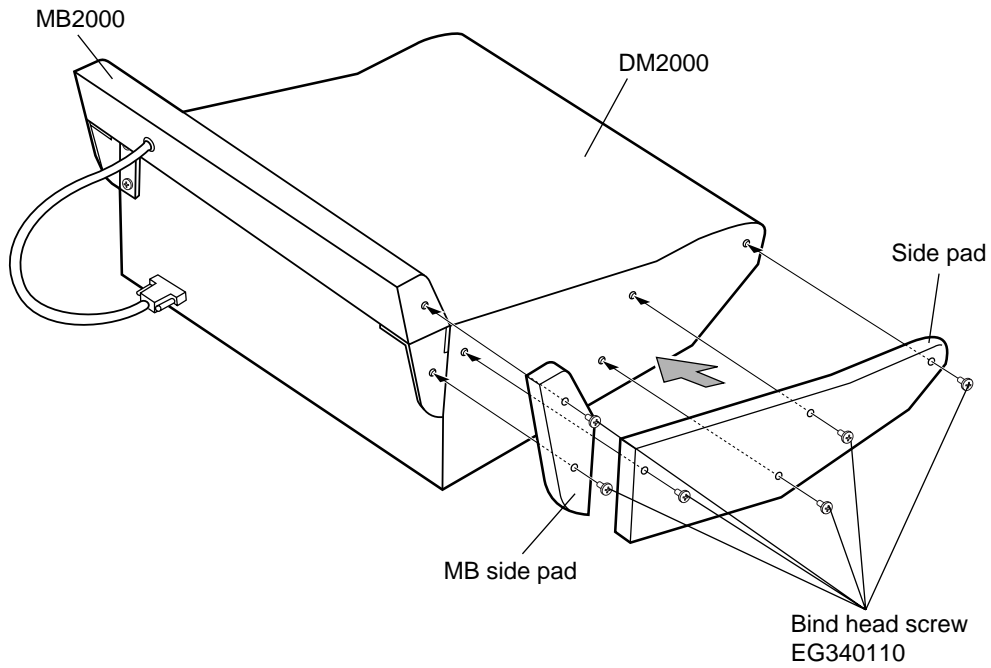
A : Australian model	M: South African model
B : British model	O : Chinese model
C : Canadian model	Q: South-east Asia model
D : German model	T : Taiwan model
E : European model	U : U.S.A. model
F : French model	V : General export model (110V)
H : North European model	W: General export model (220V)
I : Indonesian model	N,X: General export model
J : Japanese model	Y : Export model

■ WARNING

Components having special characteristics are marked  and must be replaced with parts having specification equal to those originally installed.

- The numbers "QTY" show quantities for each unit.
- The parts with "--" in "PART NO." are not available as spare parts.
- This mark "}" in the REMARKS column means these parts are interchangeable.
- The second letter of the shaded (■) part number is O, not zero.
- The second letter of the shaded (■) part number is I, not one.

OVERALL ASSEMBLY



REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		OVERALL ASSEMBLY		SP2000		
	--	Overall Assembly		J (V823830)		
	--	Overall Assembly		Y (V846770)		
	EG340110	Bind Head Screw	4.0X16 MFZN2BL		12	01
	--	Side Pad L	LEFT	(V631280)		
	--	Side Pad R	RIGHT	(V631290)		
	--	MB Side Pad L	LEFT	(V631300)		
	--	MB Side Pad R	RIGHT	(V631310)		

*: New Parts

RANK: Japan only

DIGITAL PRODUCTION CONSOLE

DM 2000

CIRCUIT DIAGRAM

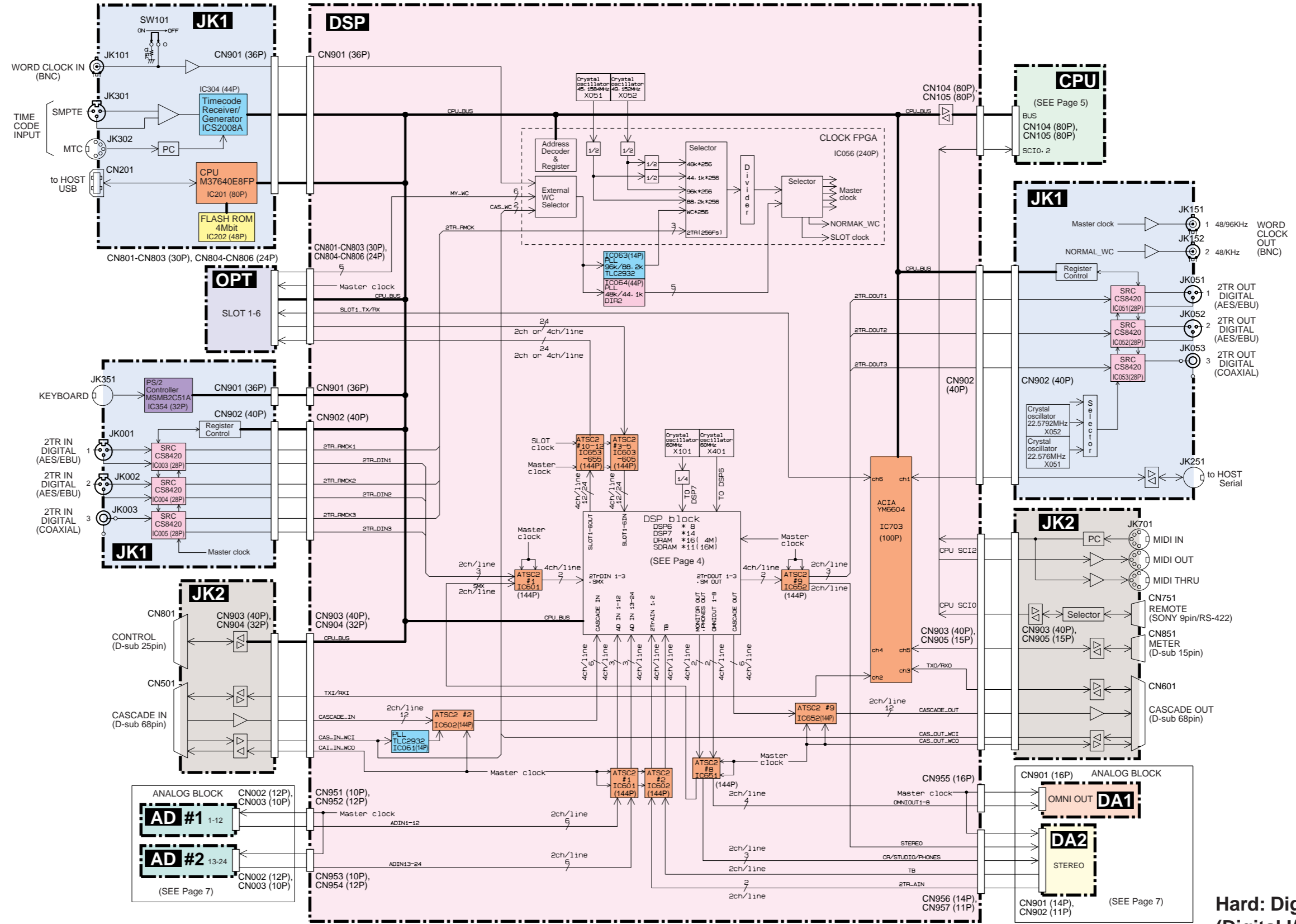
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OVERALL CIRCUIT DIAGRAM		
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Note: See parts list for details of circuit board component parts.

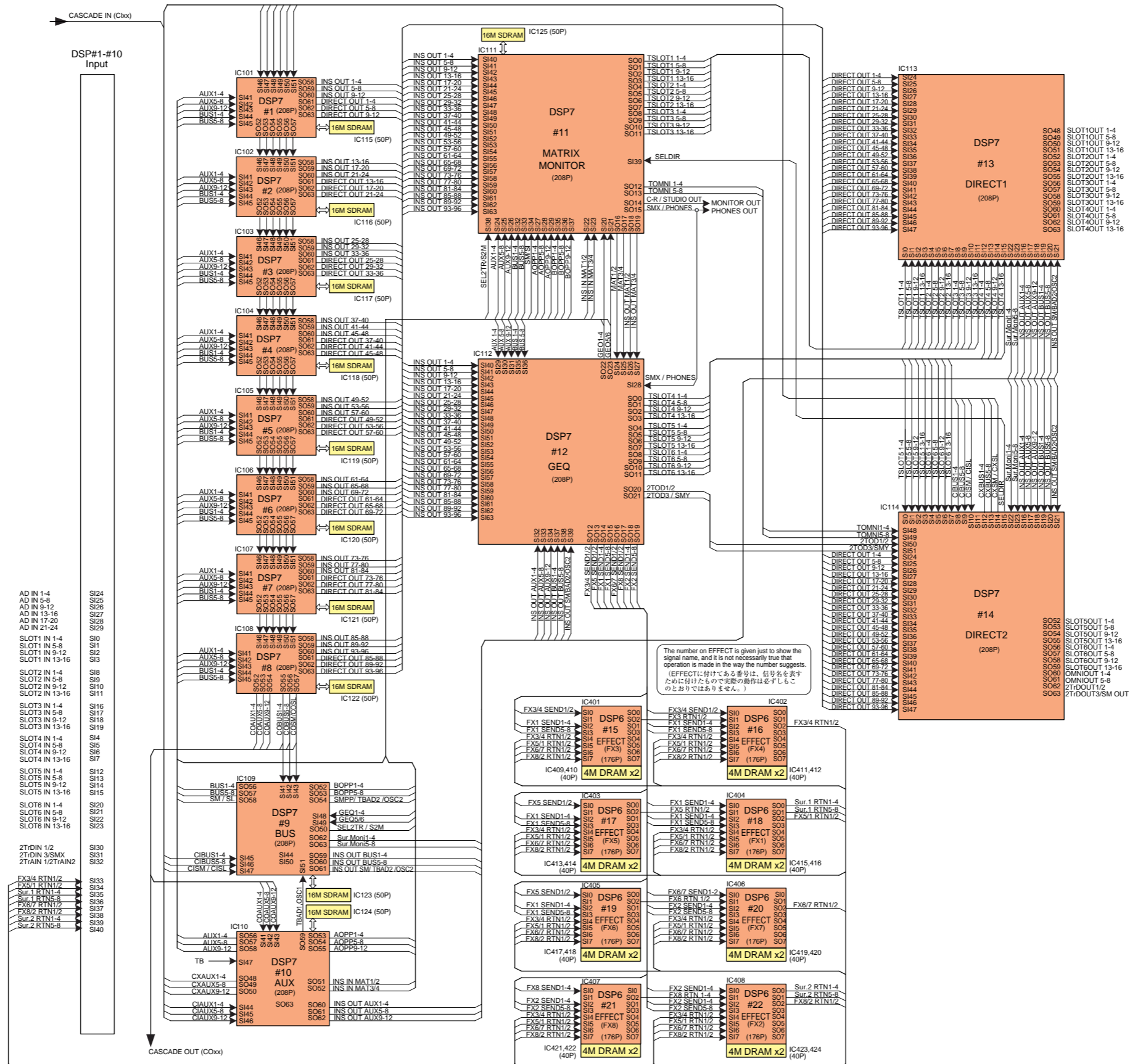
■ BLOCK DIAGRAM 002 (DM2000)

DM2000



Hard: Digital block (Digital I/O, DSP block)

■ BLOCK DIAGRAM 003 (DM2000)

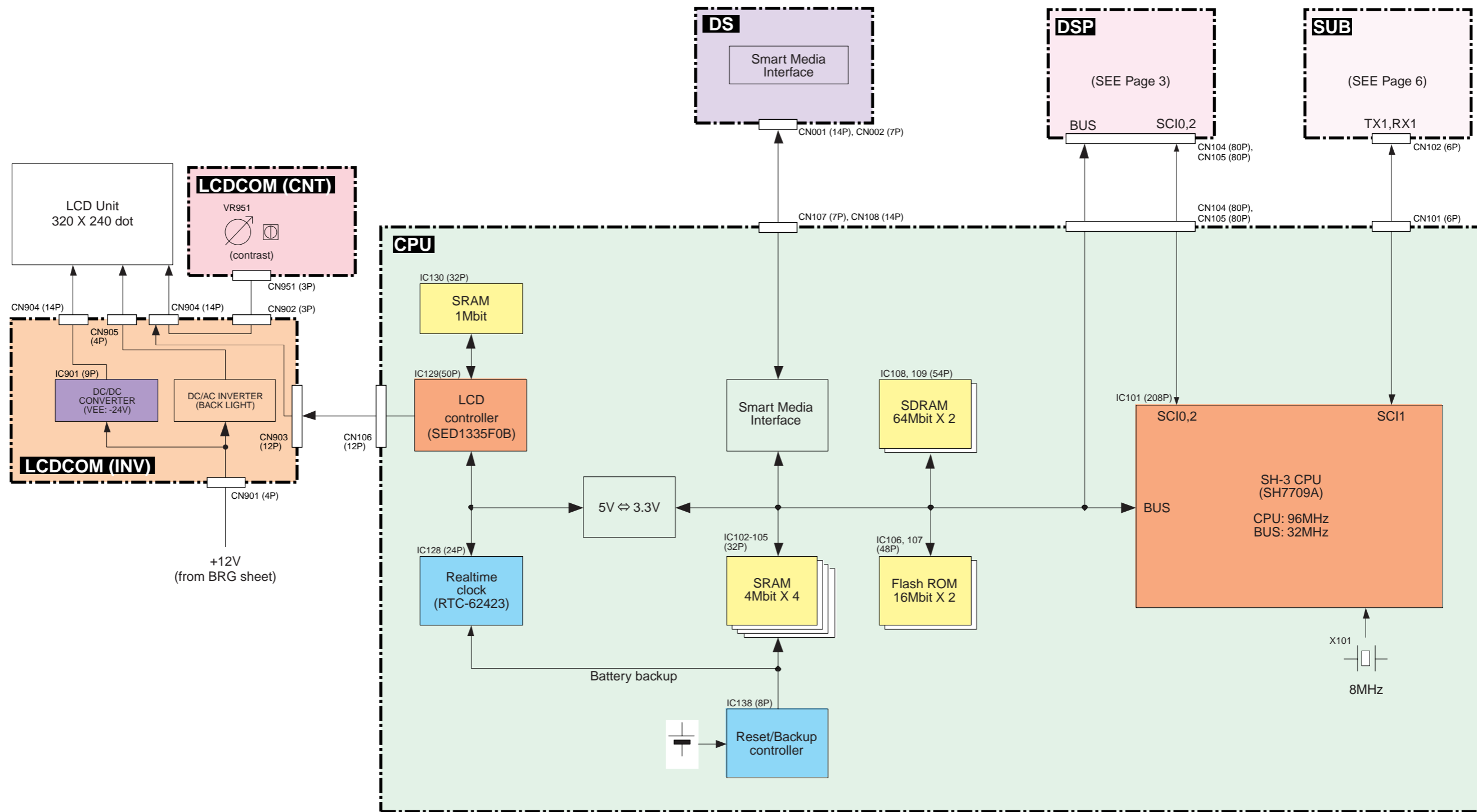


The number on EFFECT is given just to show the signal name, and it is not necessarily true that operation is made in the way the number suggests. (EFFECTに付けてある番号は、信号名を表すために付けたもので実際の動作は必ずしもこのとおりではありません。)

DSP block

■ BLOCK DIAGRAM 003 (DM2000)

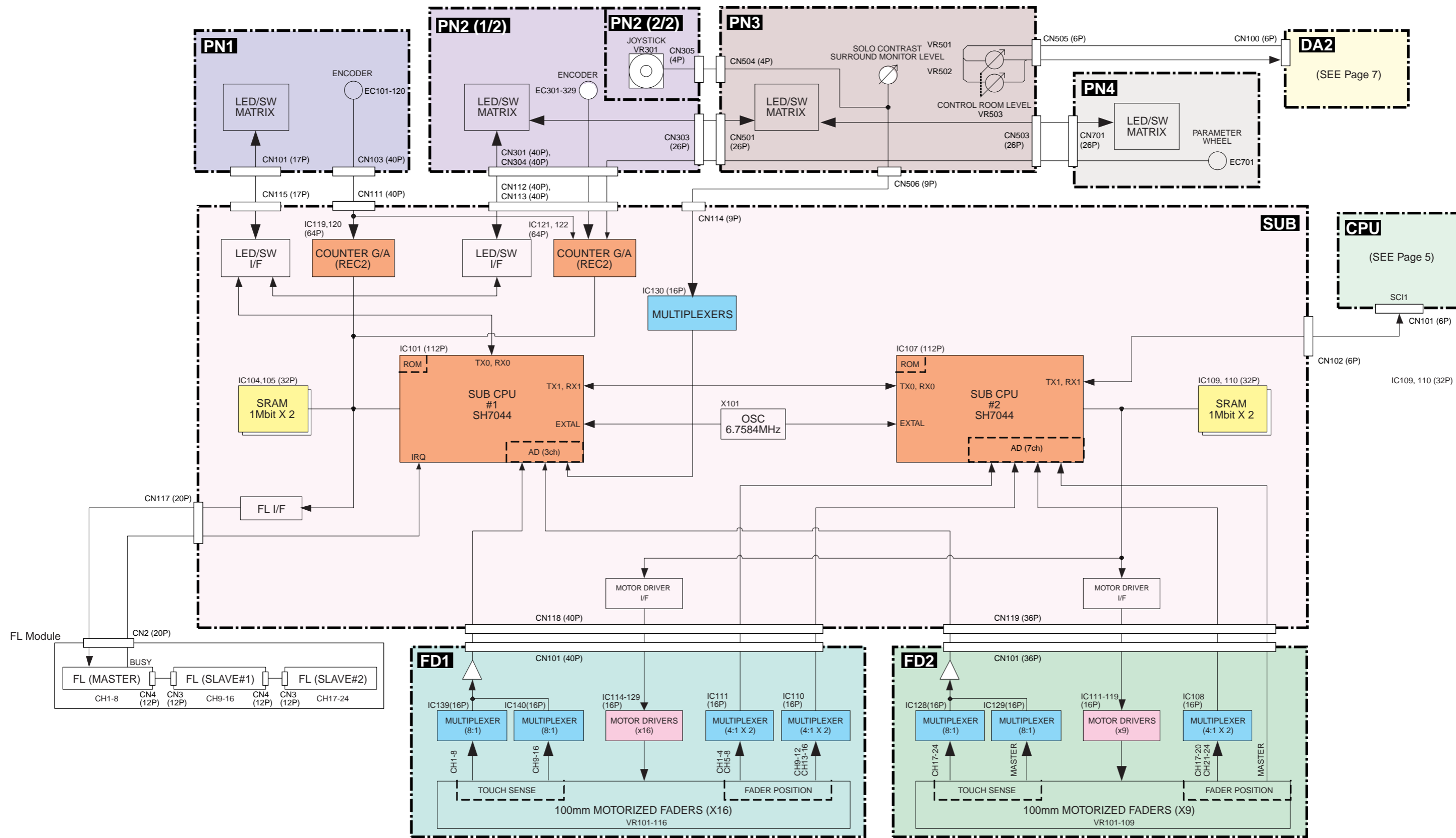
■ BLOCK DIAGRAM 004 (DM2000)



Hard: Digital block
(System, Memory control, LCD display)

■ BLOCK DIAGRAM 004 (DM2000)

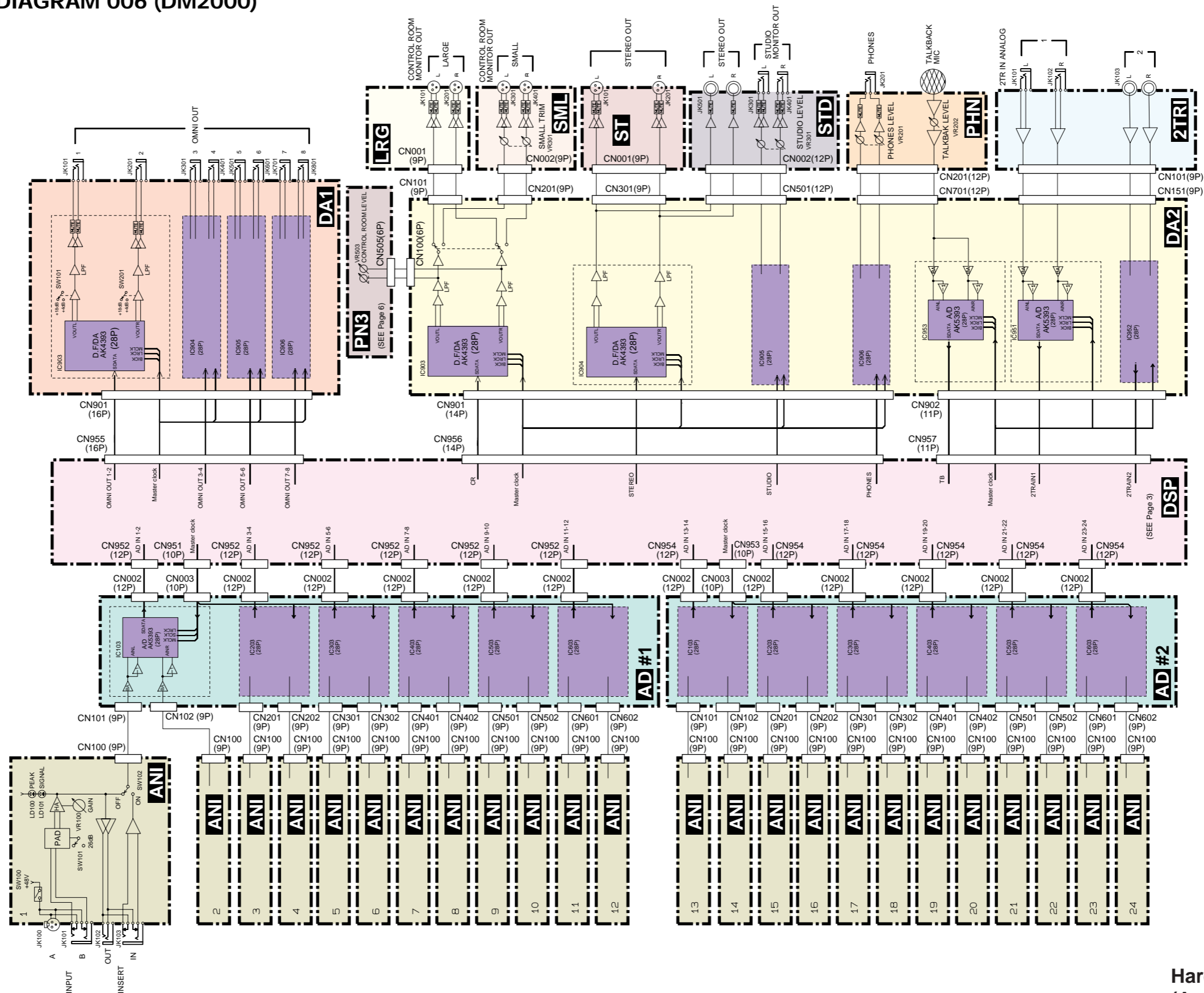
■ BLOCK DIAGRAM 005 (DM2000)



Hard: Digital block (Panel display, Operation control)

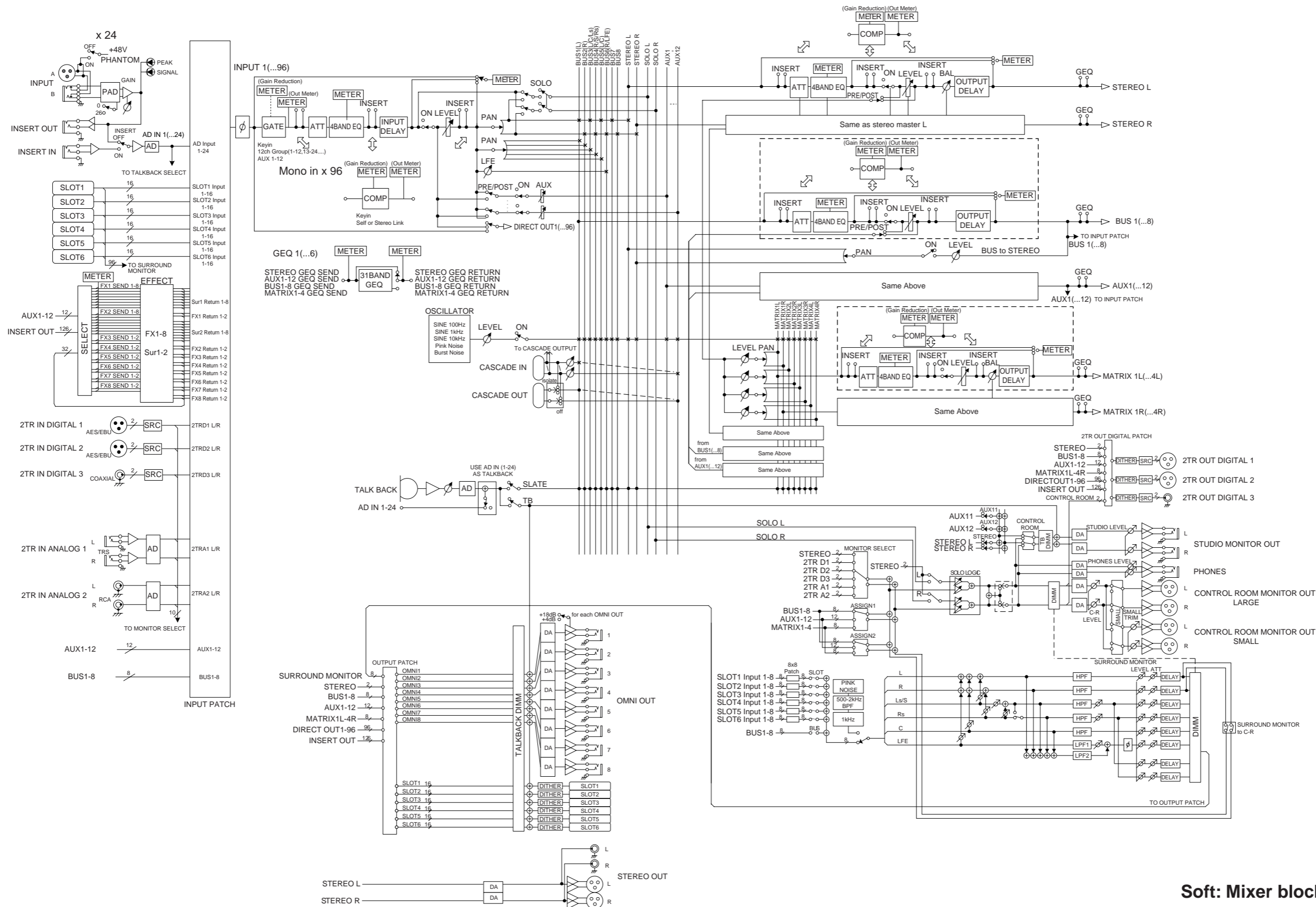
■ BLOCK DIAGRAM 005 (DM2000)

■ BLOCK DIAGRAM 006 (DM2000)



Hard: Analog block
(Analog I/O, AD/DA)

■ BLOCK DIAGRAM 007 (DM2000)

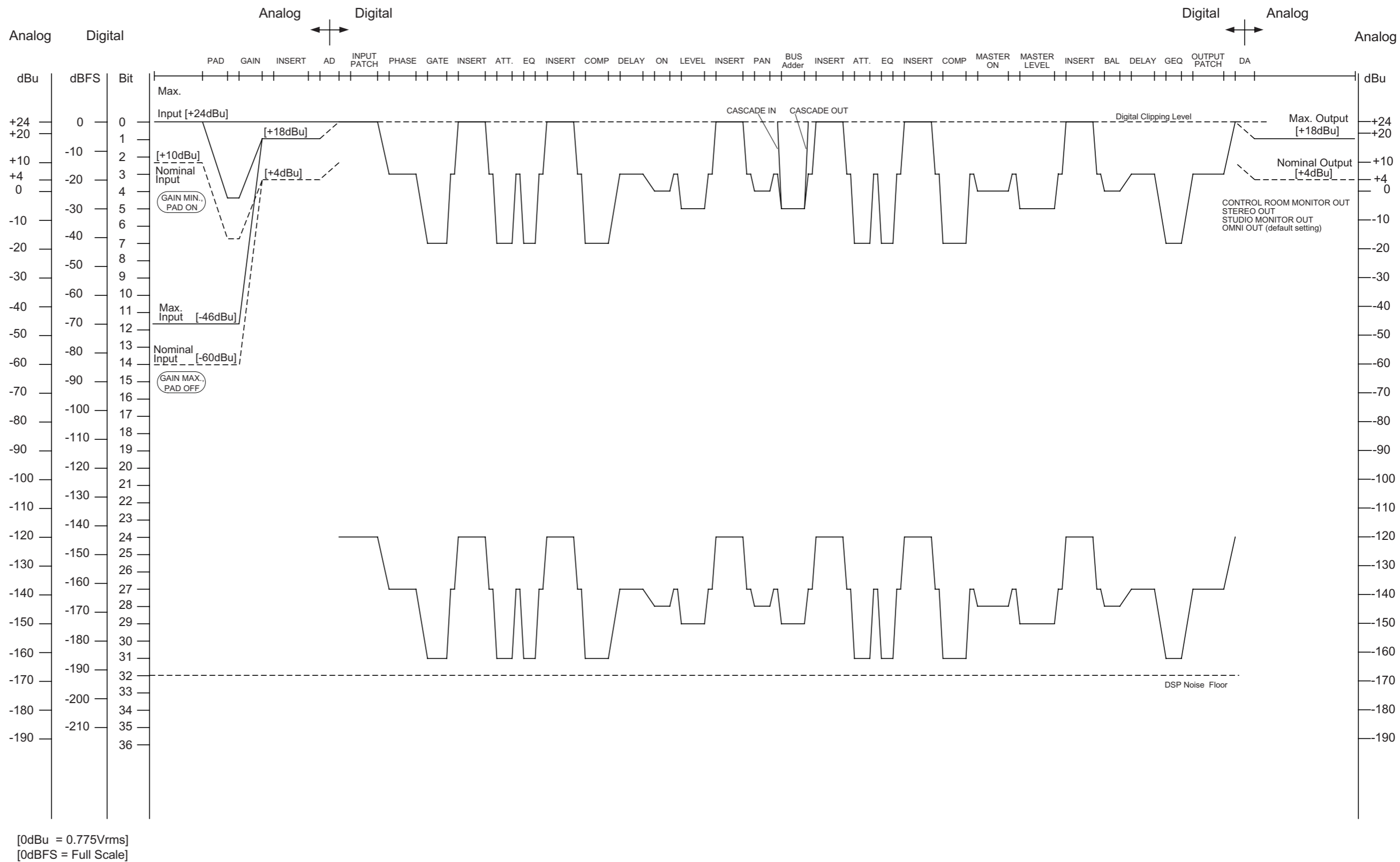


Soft: Mixer block

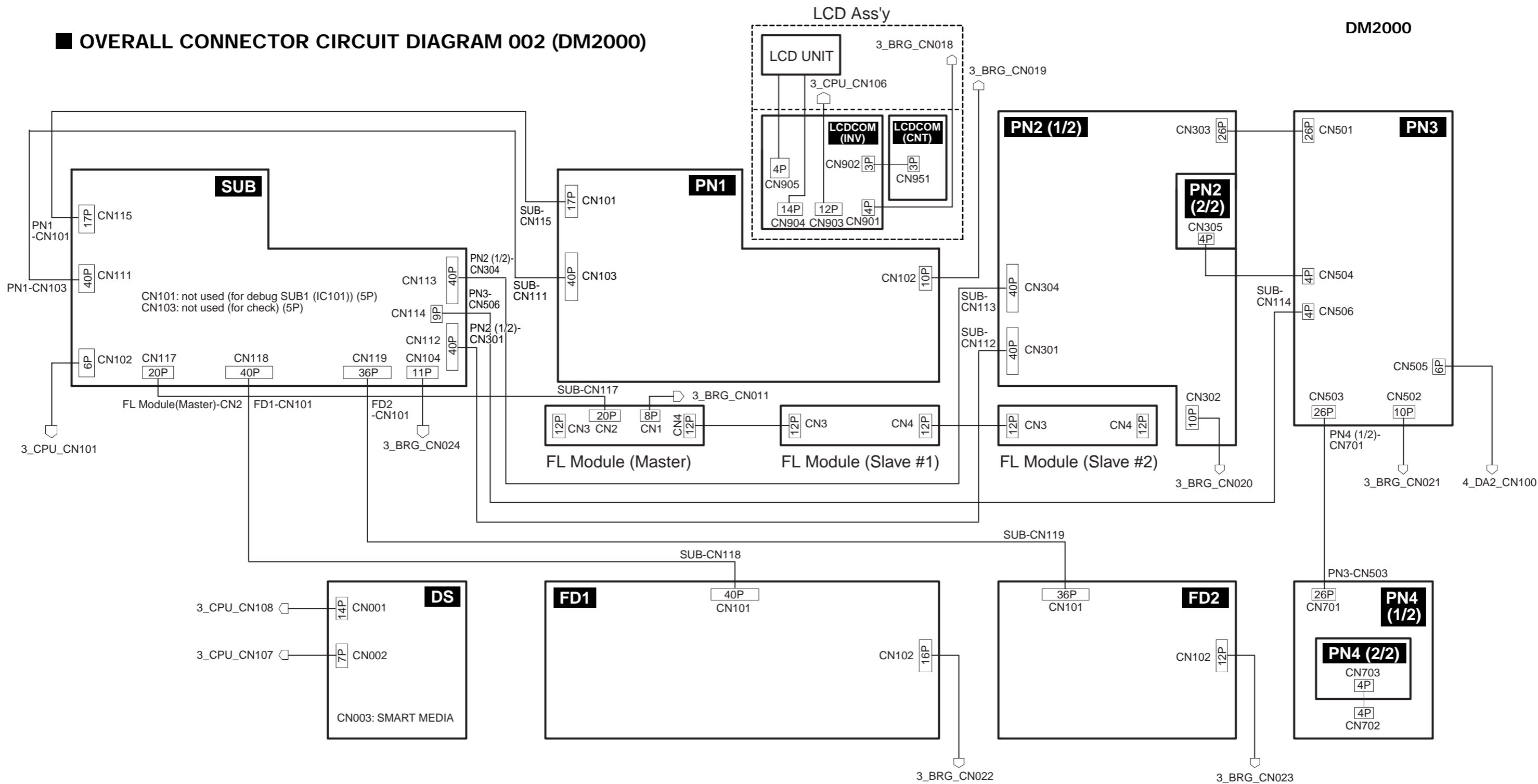
■ BLOCK DIAGRAM 007 (DM2000)

■ BLOCK DIAGRAM 008 (DM2000)

DM2000

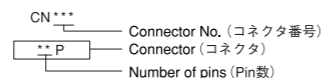


OVERALL CONNECTOR CIRCUIT DIAGRAM 002 (DM2000)



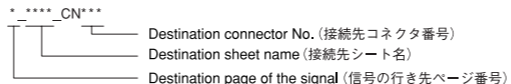
Note) □ indicates the sheet name. (□内はシート名称を示します。)

- Pin 1 of each connector is connected to pin 1 of the destination connector. (全てのコネクタの1ピンは、接続先コネクタの1ピンに接続されます。)
- Connectors are identified by the following items. (コネクタの読み方については下記の通りとします。)



Inter-assembly connections are indicated as follows. (Ass'y間のコネクタ接続については下記の通りとします。)

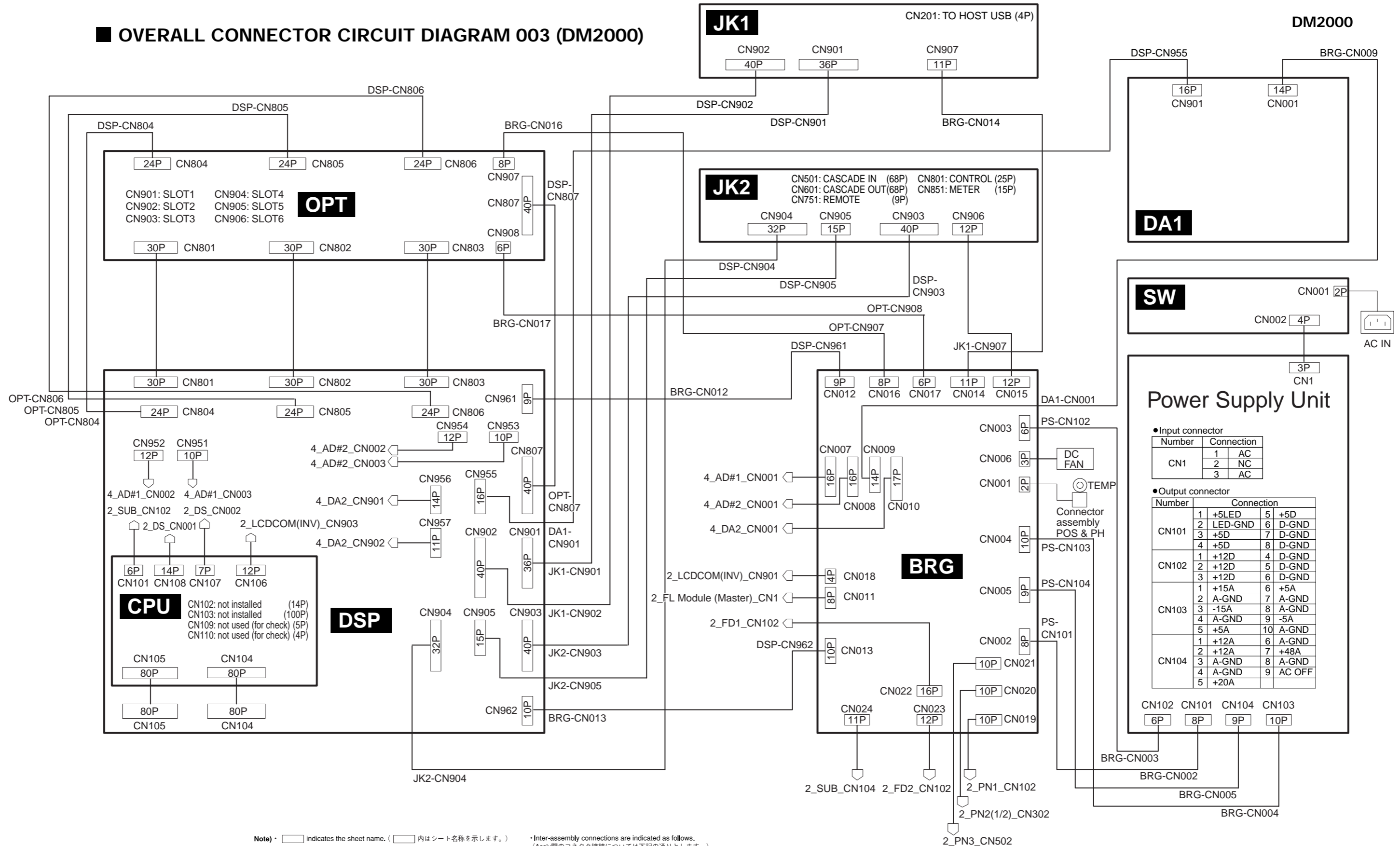
Connection between assemblies is indicated by the symbol given on the right, and the destination is indicated as follows. (Ass'y間の接続は左記の符号で示します。また接続先は下記の表示通りとします。)



Control Panel Assembly

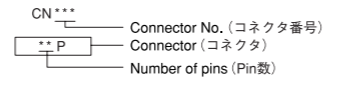
OVERALL CONNECTOR CIRCUIT DIAGRAM 002 (DM2000)

OVERALL CONNECTOR CIRCUIT DIAGRAM 003 (DM2000)



Note) □ indicates the sheet name. (□内はシート名称を示します。)

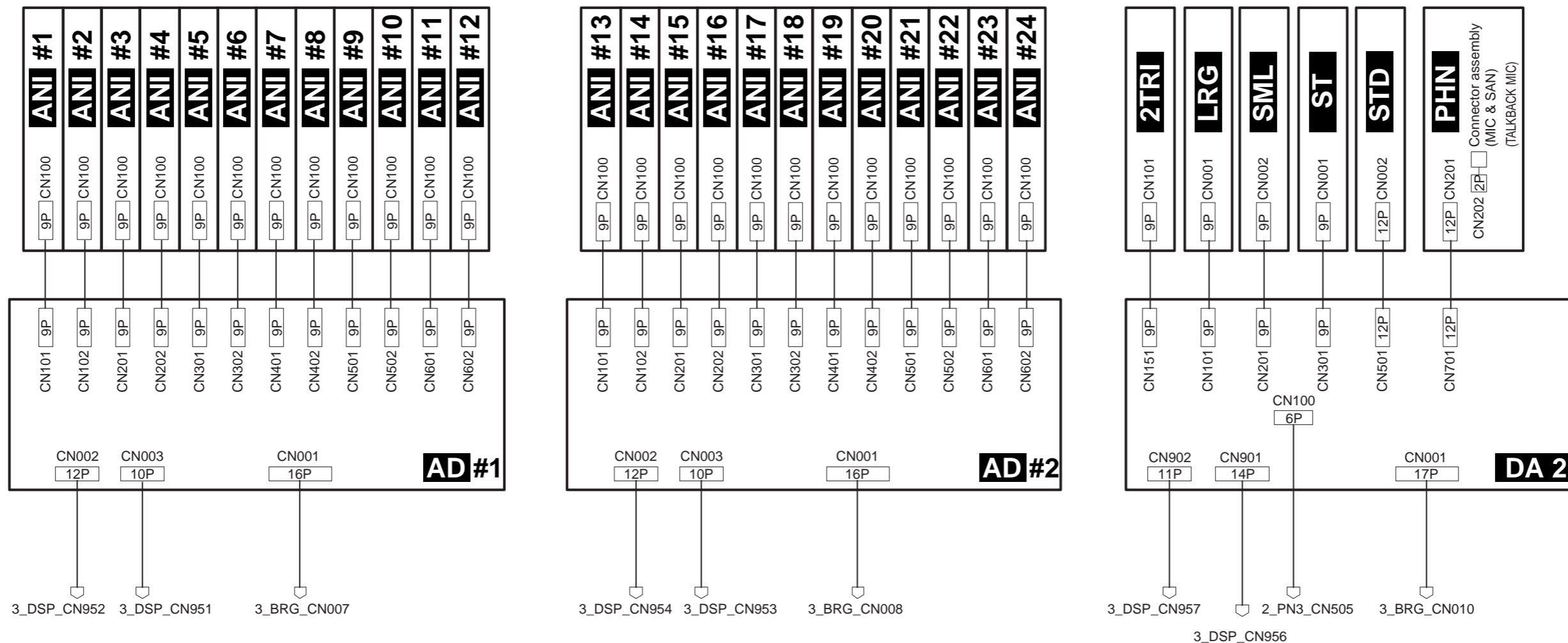
- Pin 1 of each connector is connected to pin 1 of the destination connector. (全てのコネクタの1ピンは、接続先コネクタの1ピンに接続されます。)
- Connectors are identified by the following items. (コネクタの読み方については下記の通りとします。)



Inter-assembly connections are indicated as follows. (Assy間のコネクタ接続については下記の通りとします。)

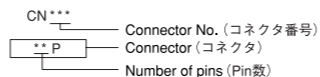
△ Connection between assemblies is indicated by the symbol given on the right, and the destination is indicated as follows. (Assy間の接続は左記の符号にて示します。また接続先は下記の表示通りとします。)
 △***_CN*** Destination connector No. (接続先コネクタ番号)
 _CN Destination sheet name (接続先シート名)
 _CN Destination page of the signal (信号の行き先ページ番号)

OVERALL CONNECTOR CIRCUIT DIAGRAM 004 (DM2000)



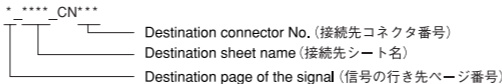
Note) [] indicates the sheet name. ([]内はシート名称を示します。)

- Pin 1 of each connector is connected to pin 1 of the destination connector. (全てのコネクタの1ピンは、接続先コネクタの1ピンに接続されます。)
- Connectors are identified by the following items. (コネクタの読み方については下記の通りとします。)



Inter-assembly connections are indicated as follows. (Assy間のコネクタ接続については下記の通りとします。)

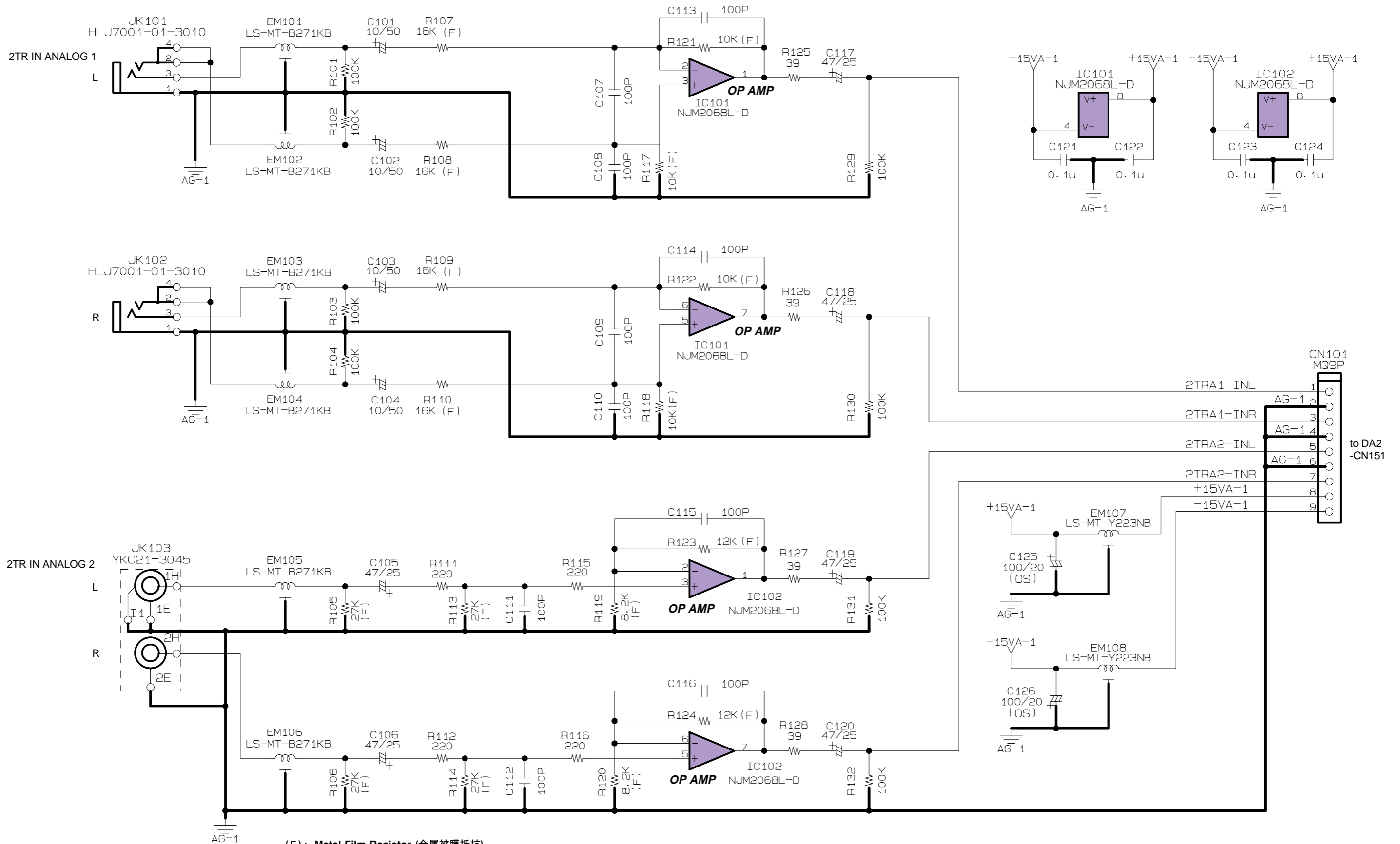
Connection between assemblies is indicated by the symbol given on the right, and the destination is indicated as follows. (Assy間の接続は左記の符号にて示します。また接続先は下記の表示通りとします。)



Rear Assembly Upper

2TRI OVERALL CIRCUIT DIAGRAM (DM2000)

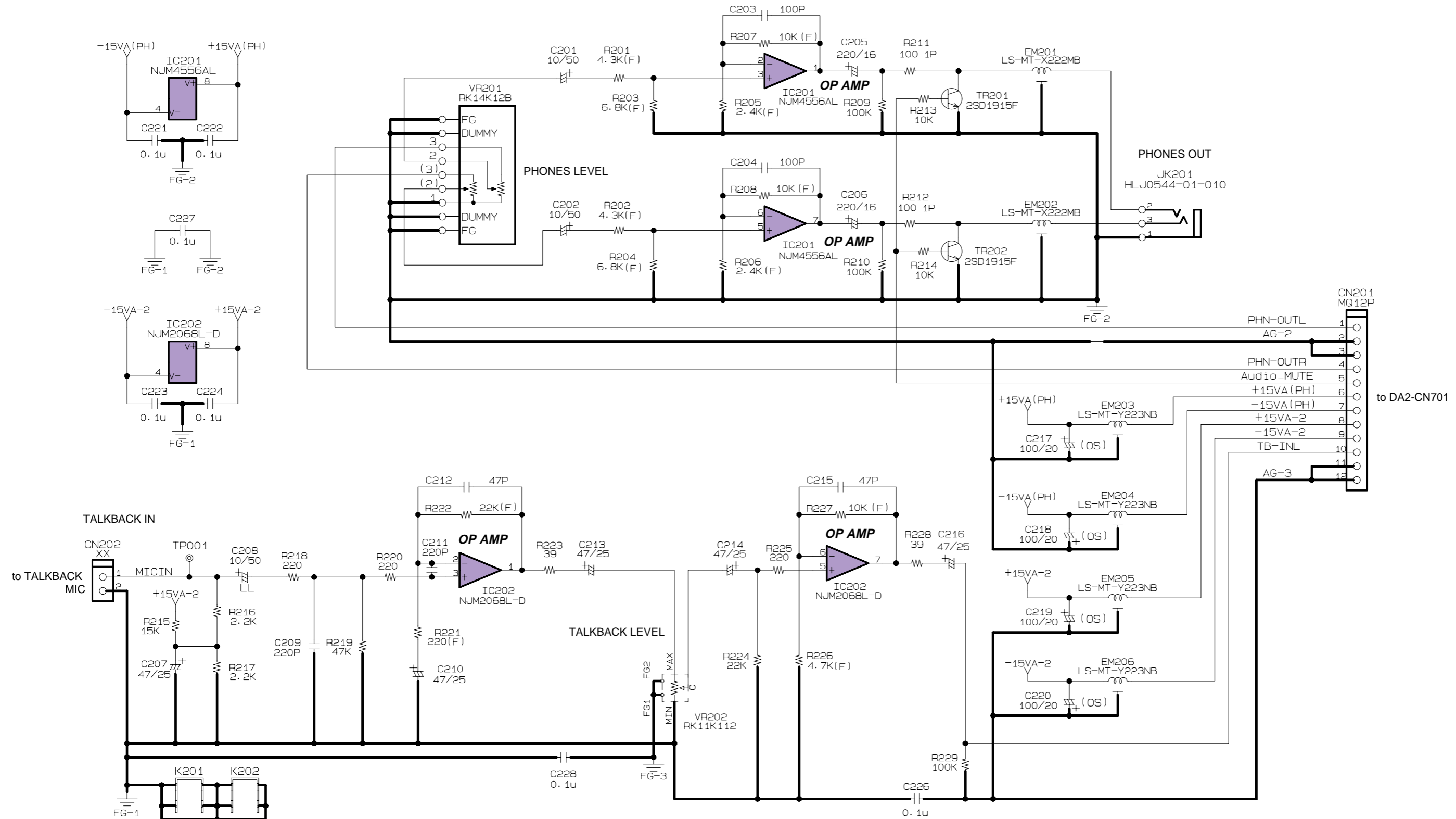
DM2000



(F) : Metal Film Resistor (金属被膜抵抗)
 (OS) : Organic Semiconductor Aluminum Electrolytic Capacitor
 (有機半導体アルミ電解コンデンサー)

PHN OVERALL CIRCUIT DIAGRAM (DM2000)

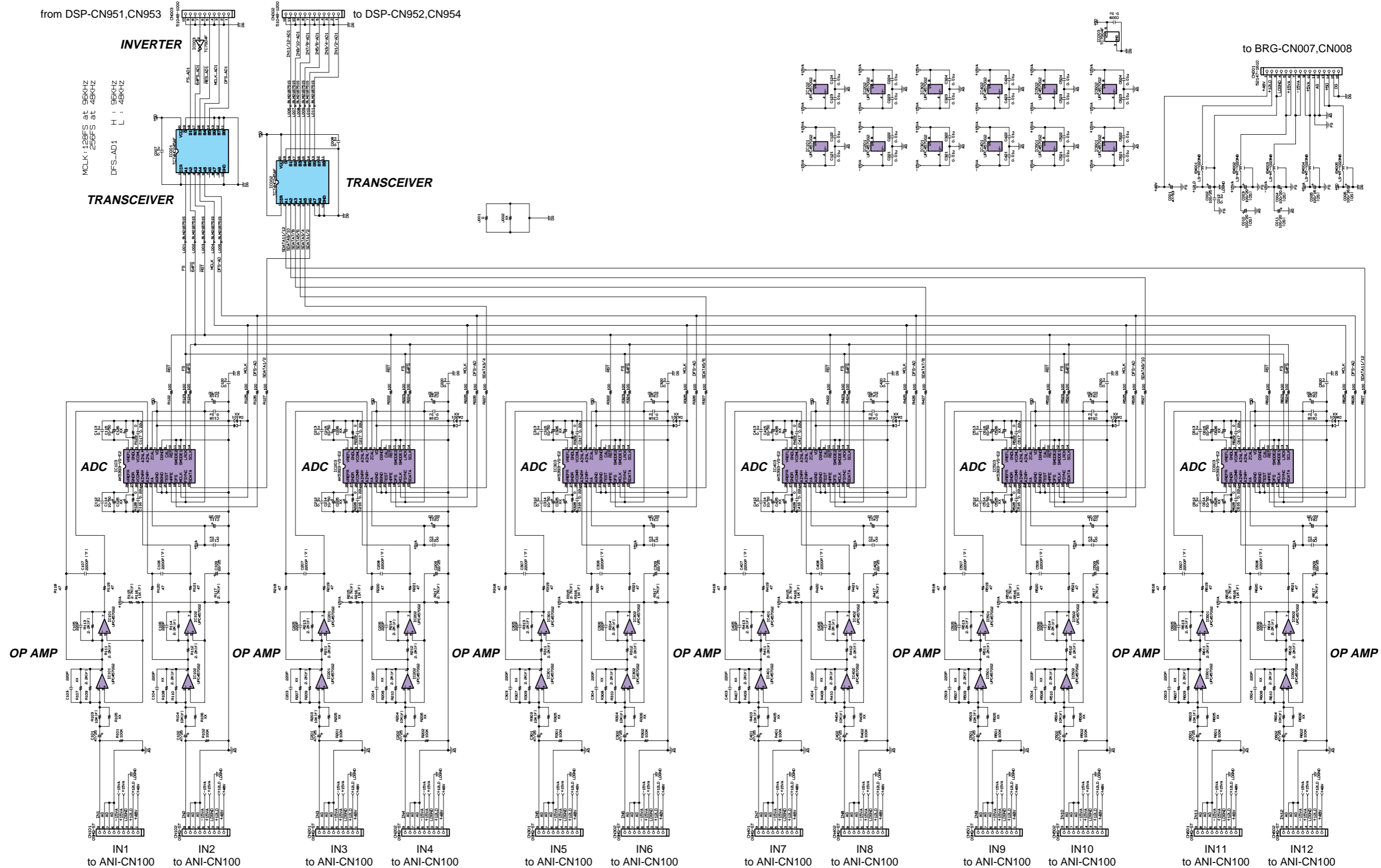
DM2000



(F) : Metal Film Resistor (金属被膜抵抗)
(OS) : Organic Semiconductor Aluminum Electrolytic Capacitor
(有機半導体アルミ電解コンデンサー)
XX : not installed (未実装部品)

PHN OVERALL CIRCUIT DIAGRAM (DM2000)

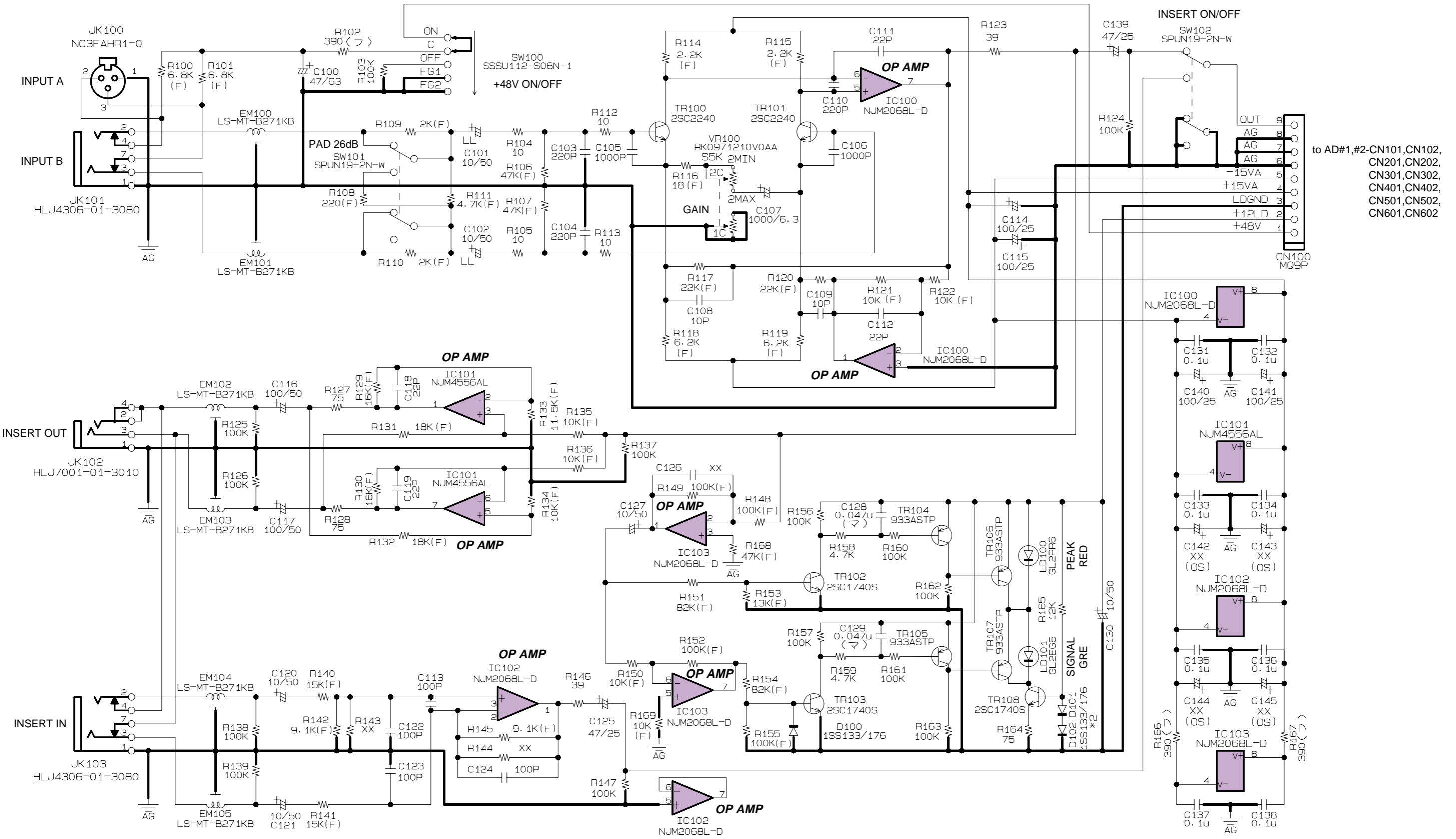
AD OVERALL CIRCUIT DIAGRAM (DM2000)



- (F) : Metal Film Resistor (金属被膜抵抗)
- (マ) : Mylar Capacitor (マイラーコンデンサー)
- (OS) : Organic Semiconductor Aluminum Electrolytic Capacitor (有機半導体アルミ電解コンデンサー)
- XX : not installed (未実装部品)

ANI OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000



to AD#1,#2-CN101,CN102,
CN201,CN202,
CN301,CN302,
CN401,CN402,
CN501,CN502,
CN601,CN602

(F) : Metal Film Resistor (金属被膜抵抗)
 (フ) : Flame Proof C. Resistor (不燃化カーボン抵抗)
 (マ) : Mylar Capacitor (マイラーコンデンサー)
 XX : not installed (未実装部品)

ANI OVERALL CIRCUIT DIAGRAM (DM2000)

38CC1-8822233-1

BRG OVERALL CIRCUIT DIAGRAM 002 (DM2000)

DM2000

from Power Supply Unit-CN101

from Power Supply Unit-CN102

from Power Supply Unit-CN103

from Power Supply Unit-CN104

SYSTEM RESET

to TEMP

to FAN

to FL Module (Master) -CN1

to AD#1 -CN001

to AD#2 -CN001

to DA1 -CN001

to DA2 -CN001

to DSP -CN961

to DSP -CN962

to JK1 -CN907

to JK2 -CN906

to OPT -CN907

to OPT -CN908

to LCDCOM (INV) -CN901

to PN1-CN102

to PN2 (1/2)-CN302

to PN3-CN502

to FD1-CN102

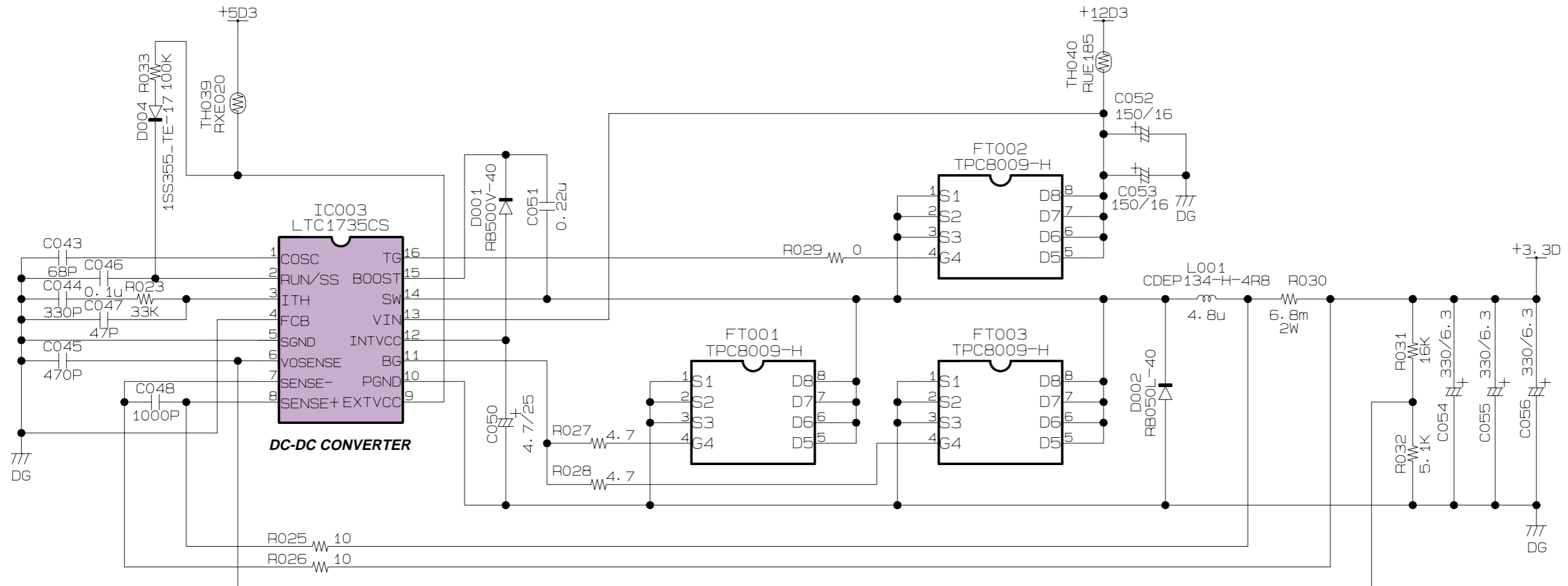
to FD2-CN102

to SUB-CN104

(1P) : Metal Oxide Film Resistor (酸化金属被膜抵抗)
XX : not installed (実装しない)

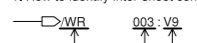
BRG OVERALL CIRCUIT DIAGRAM 003 (DM2000)

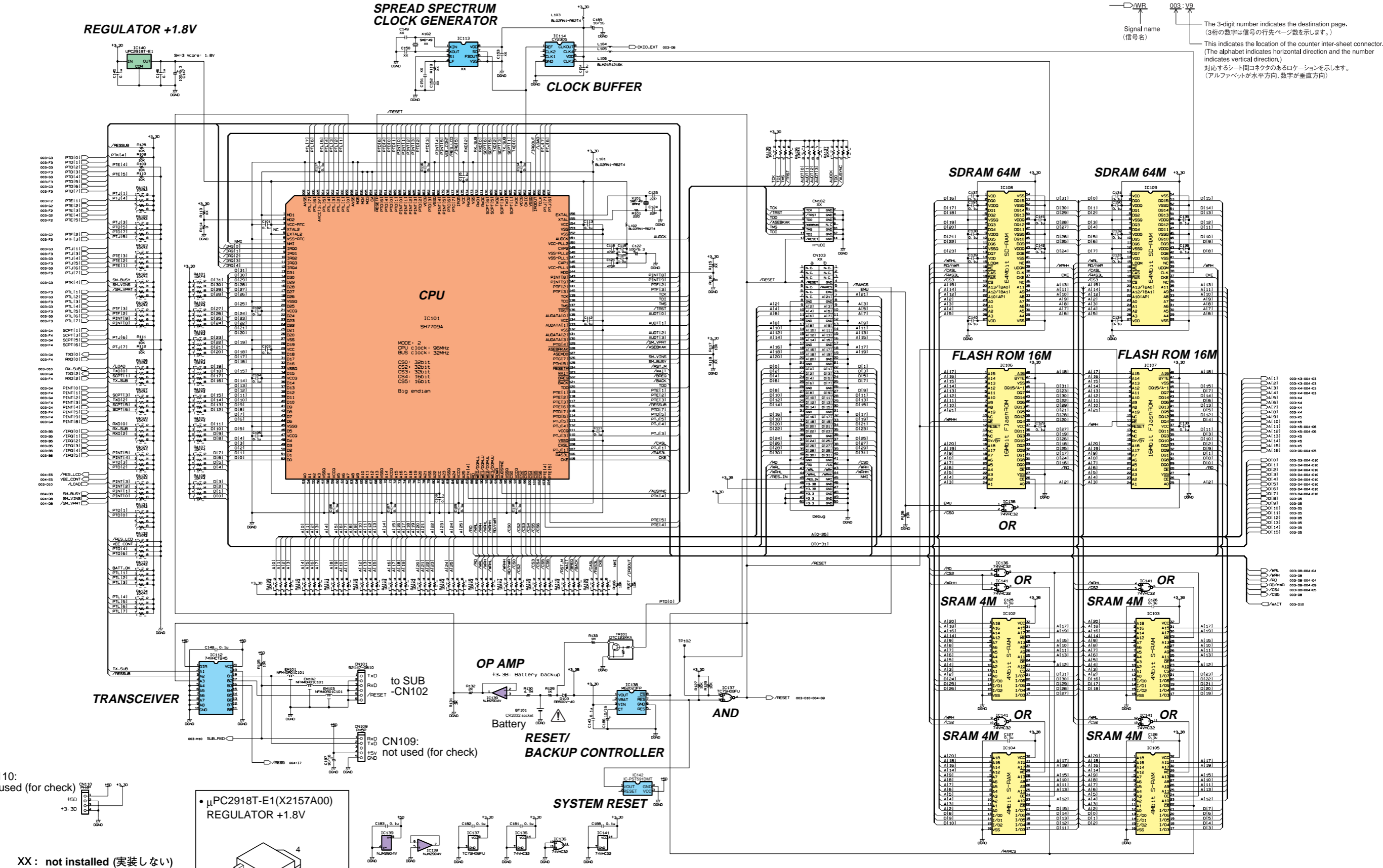
DM2000

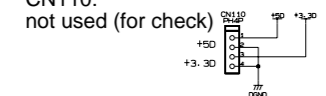


■ CPU OVERALL CIRCUIT DIAGRAM 002 (DM2000)


DM2000

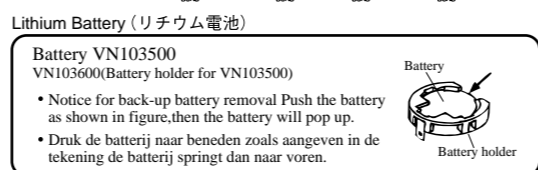
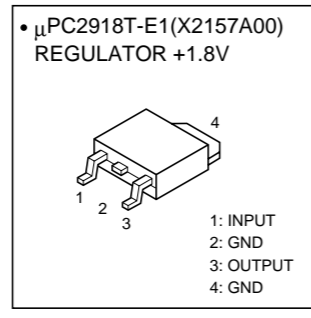
Notation for Circuit Diagrams (回路図表記上の注意)
 1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

 Signal name (信号名)
 The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)
 This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) (対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向))



CN110: not used (for check)


XX: not installed (実装しない)

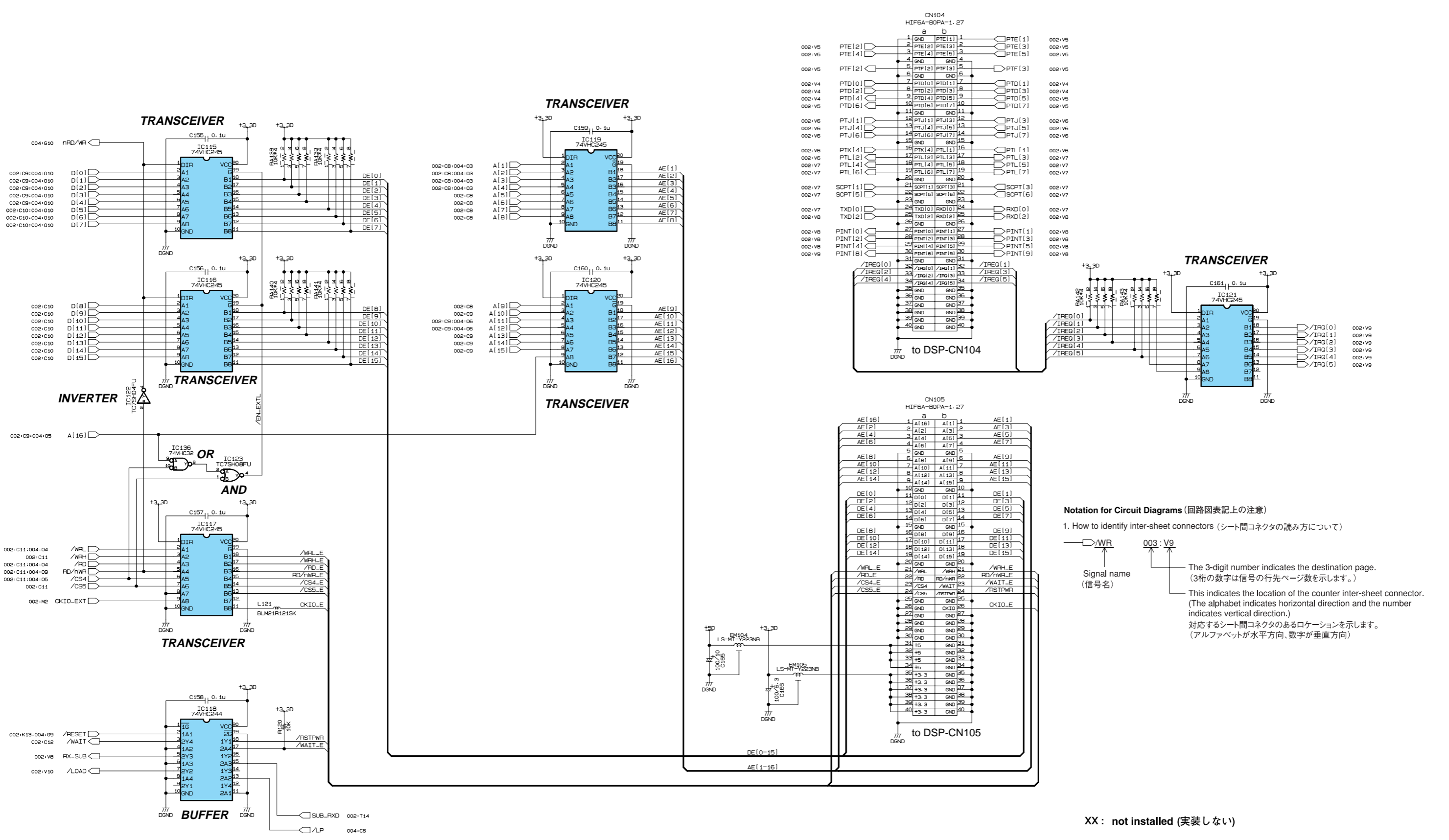
38CC1-882240-2 



■ CPU OVERALL CIRCUIT DIAGRAM 002 (DM2000)

■ CPU OVERALL CIRCUIT DIAGRAM 003 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

Signal name (信号名)

 003:V9

 The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

 This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)

 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

XX: not installed (実装しない)

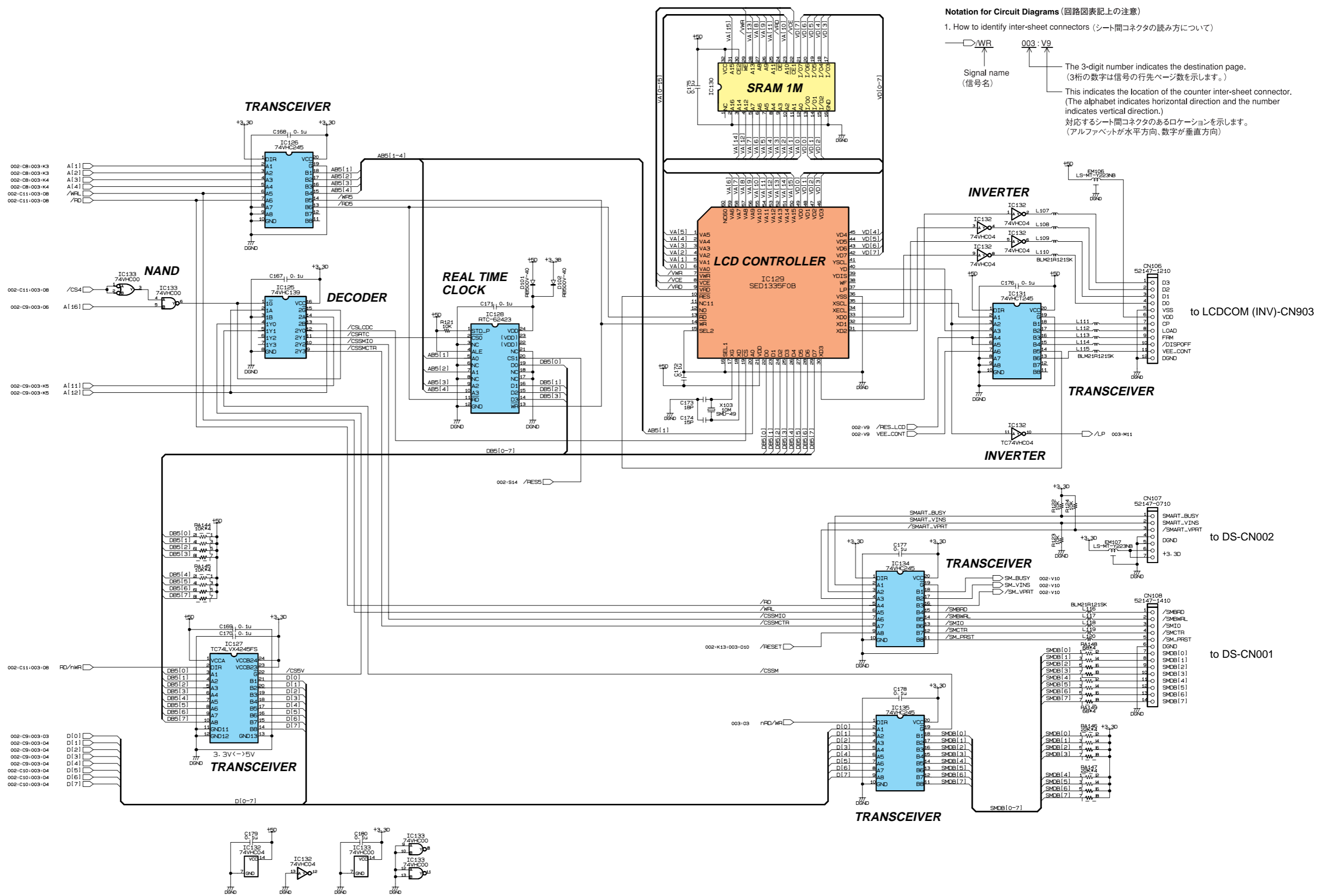
38CC1-8822240-3 3

■ CPU OVERALL CIRCUIT DIAGRAM 003 (DM2000)

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■ CPU OVERALL CIRCUIT DIAGRAM 004 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

Signal name (信号名) → 003:V9

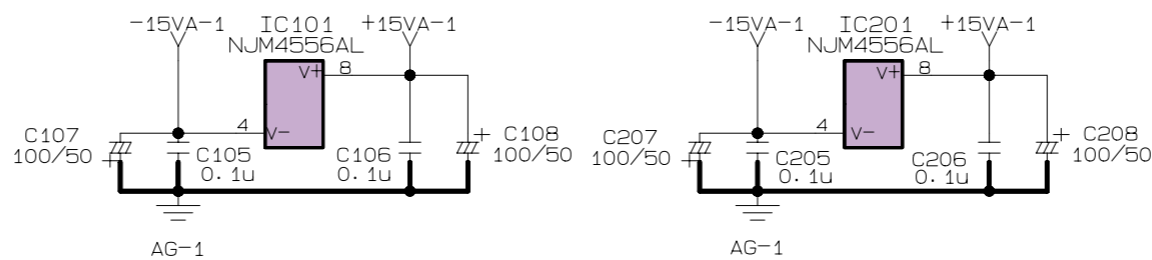
The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

LRG OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000

1



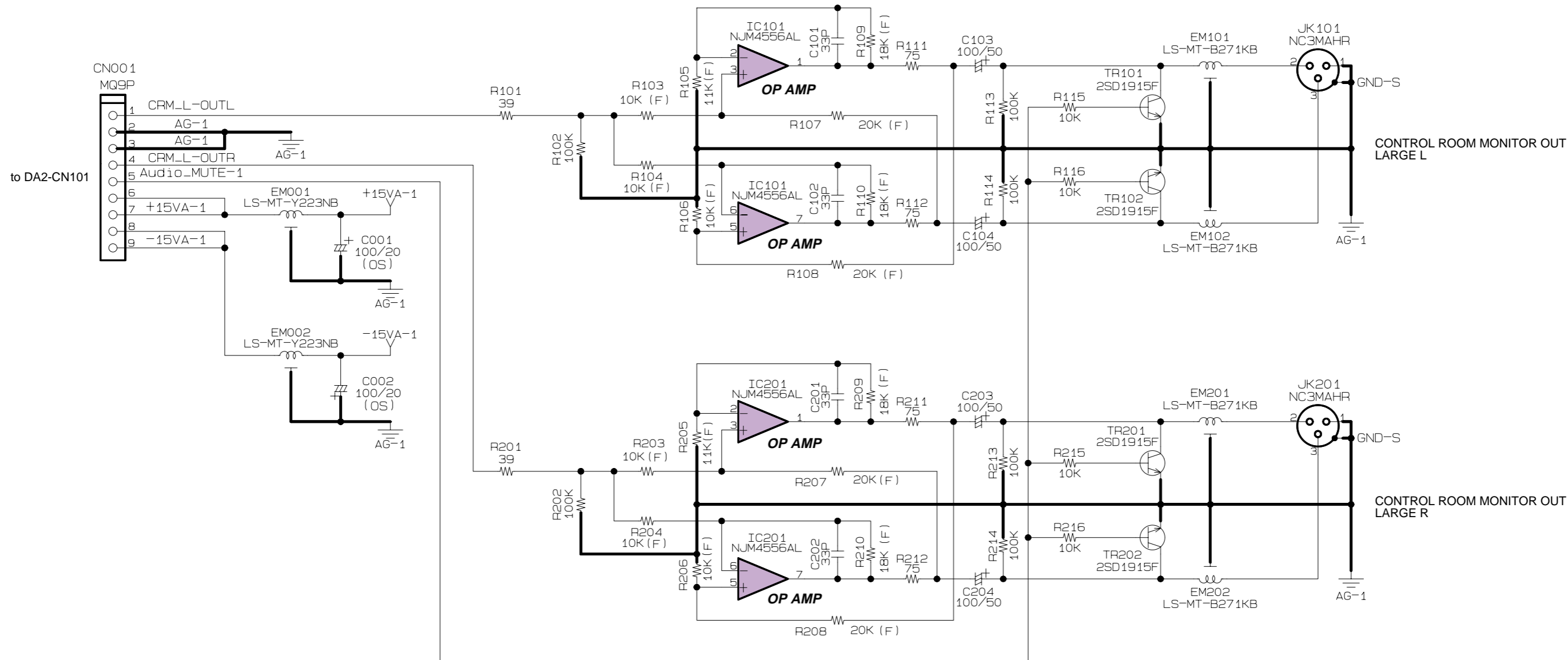
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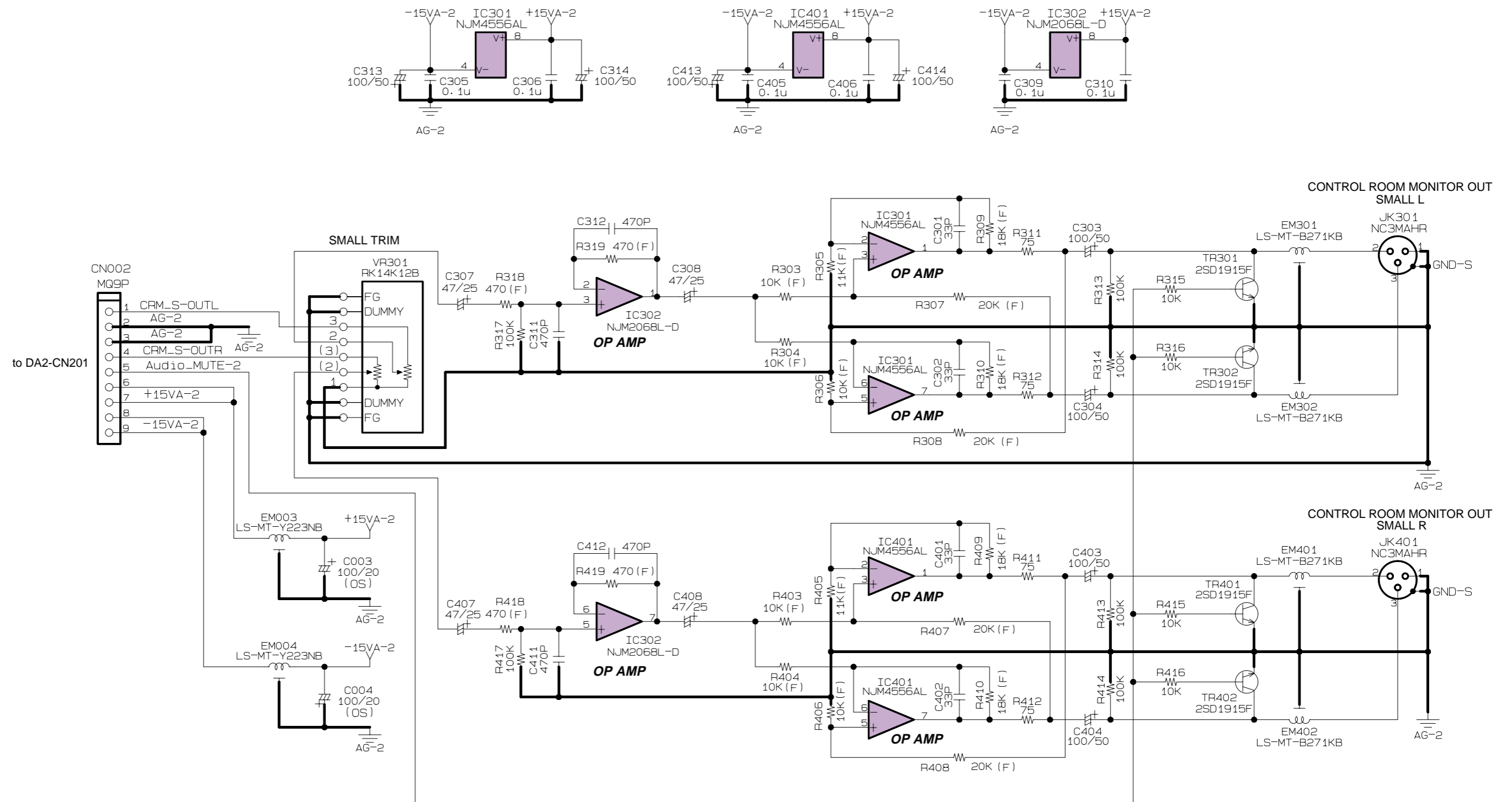
6



(F) : Metal Film Resistor (金属被膜抵抗)
 (OS) : Organic Semiconductor Aluminum Electrolytic Capacitor
 (有機半導体アルミ電解コンデンサー)

■ SML OVERALL CIRCUIT DIAGRAM (DM2000)

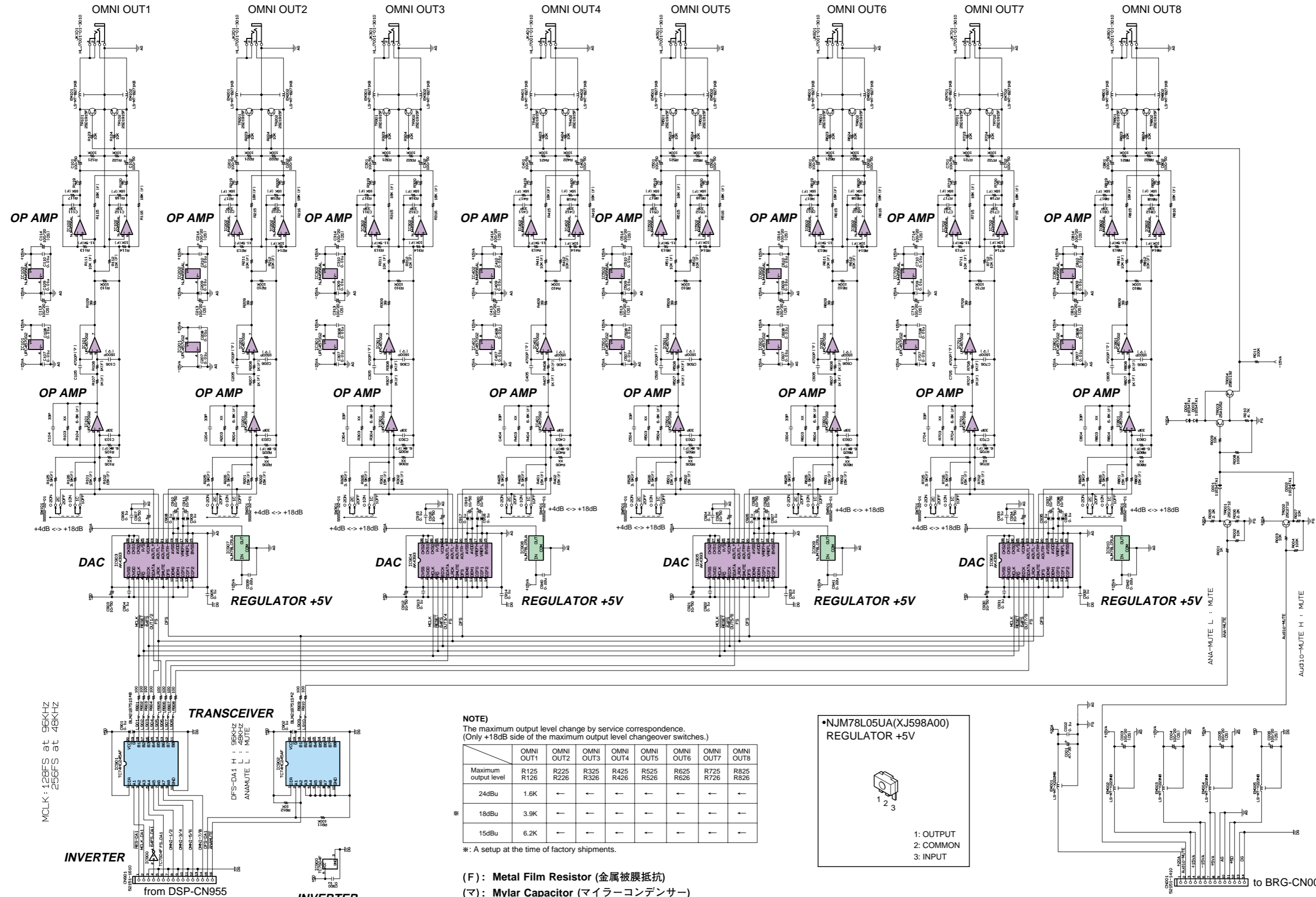
DM2000



(F) : Metal Film Resistor (金属被膜抵抗)
 (OS) : Organic Semiconductor Aluminum Electrolytic Capacitor
 (有機半導体アルミ電解コンデンサー)

DA1 OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000



MCLK : 128FS at 96KHZ
256FS at 48KHZ

INVERTER

from DSP-CN955

INVERTER

NOTE
The maximum output level change by service correspondence.
(Only +18dB side of the maximum output level changeover switches.)

	OMNI OUT1	OMNI OUT2	OMNI OUT3	OMNI OUT4	OMNI OUT5	OMNI OUT6	OMNI OUT7	OMNI OUT8
Maximum output level	R125 R126	R225 R226	R325 R326	R425 R426	R525 R526	R625 R626	R725 R726	R825 R826
24dBu	1.6K	←	←	←	←	←	←	←
18dBu	3.9K	←	←	←	←	←	←	←
15dBu	6.2K	←	←	←	←	←	←	←

* : A setup at the time of factory shipments.

- (F) : Metal Film Resistor (金属被膜抵抗)
- (マ) : Mylar Capacitor (マイラーコンデンサー)
- (OS) : Organic Semiconductor Aluminum Electrolytic Capacitor (有機半導体アルミ電解コンデンサー)
- XX : not installed (未実装部品)

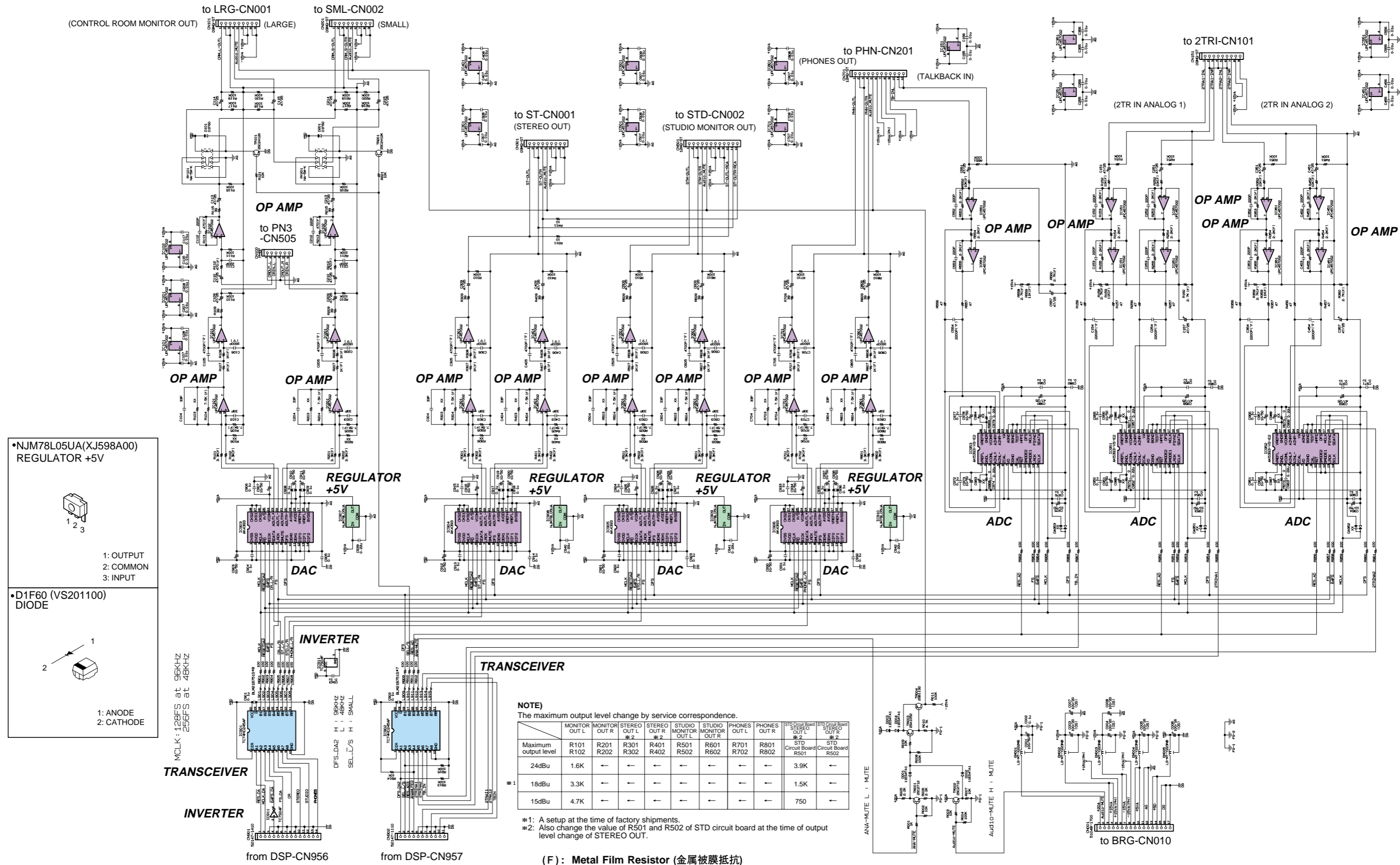
•NJM78L05UA(XJ598A00)
REGULATOR +5V

1: OUTPUT
2: COMMON
3: INPUT

to BRG-CN009

DA2 OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000



•NJM78L05UA(XJ598A00)
REGULATOR +5V

•D1F60 (VS201100)
DIODE

NOTE)
The maximum output level change by service correspondence.

	MONITOR OUT L	MONITOR OUT R	STEREO OUT L # 2	STEREO OUT R # 2	STUDIO MONITOR OUT L	STUDIO MONITOR OUT R	PHONES OUT L	PHONES OUT R	STD Circuit Board STEREO OUT L R501	STD Circuit Board STEREO OUT R R502
Maximum output level	R101 R102	R201 R202	R301 R302	R401 R402	R501 R502	R601 R602	R701 R702	R801 R802	3.9K	↑
24dBu	1.6K	↑	↑	↑	↑	↑	↑	↑	↑	↑
18dBu	3.3K	↑	↑	↑	↑	↑	↑	↑	1.5K	↑
15dBu	4.7K	↑	↑	↑	↑	↑	↑	↑	750	↑

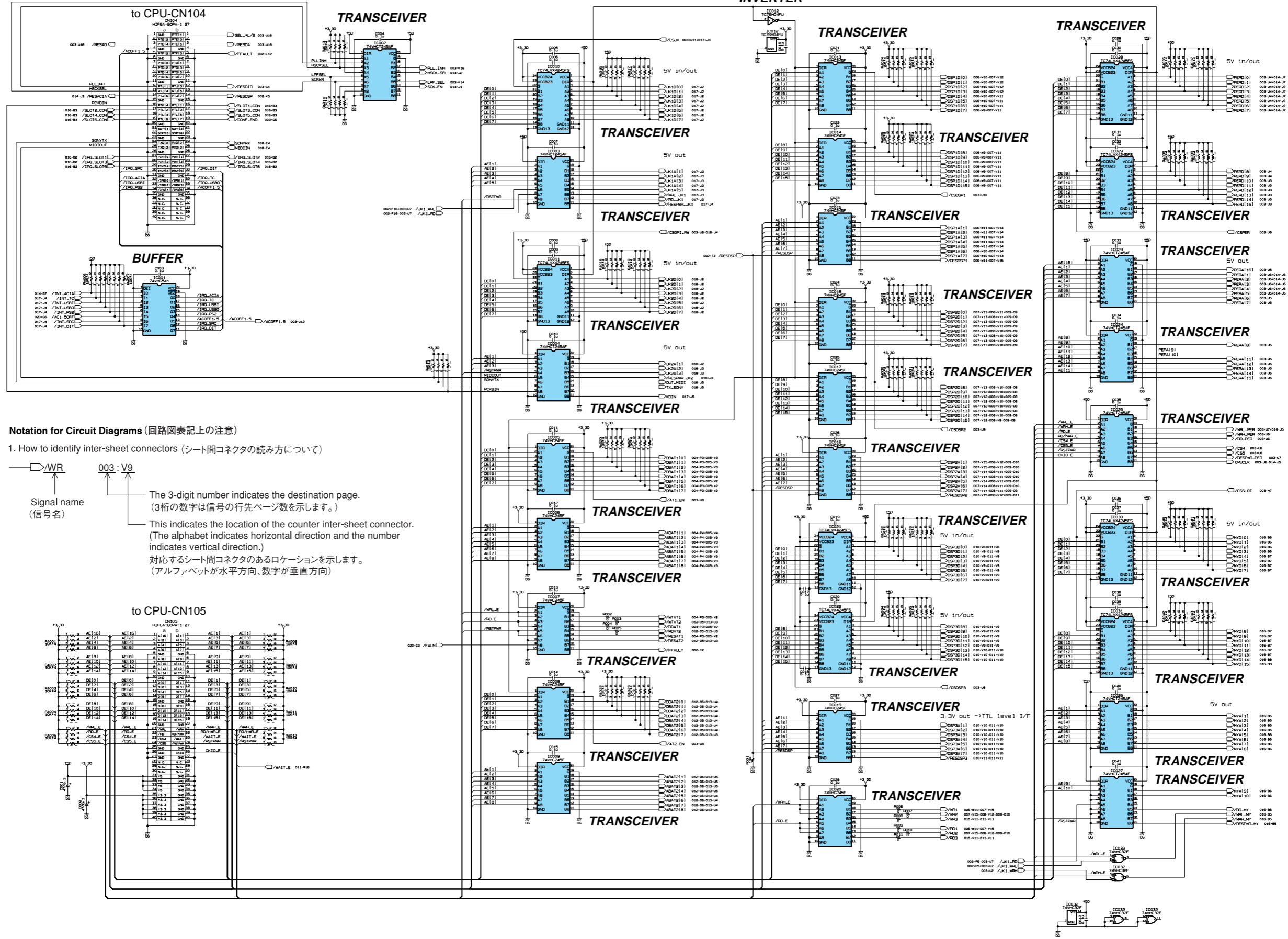
*1: A setup at the time of factory shipments.
*2: Also change the value of R501 and R502 of STD circuit board at the time of output level change of STEREO OUT.

- (F) : Metal Film Resistor (金属被膜抵抗)
- (マ) : Mylar Capacitor (マイラーコンデンサー)
- (OS) : Organic Semiconductor Aluminum Electrolytic Capacitor (有機半導体アルミ電解コンデンサー)
- XX : not installed (未実装部品)

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DSP OVERALL CIRCUIT DIAGRAM 002 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

—WR— 003 : V9

Signal name (信号名)

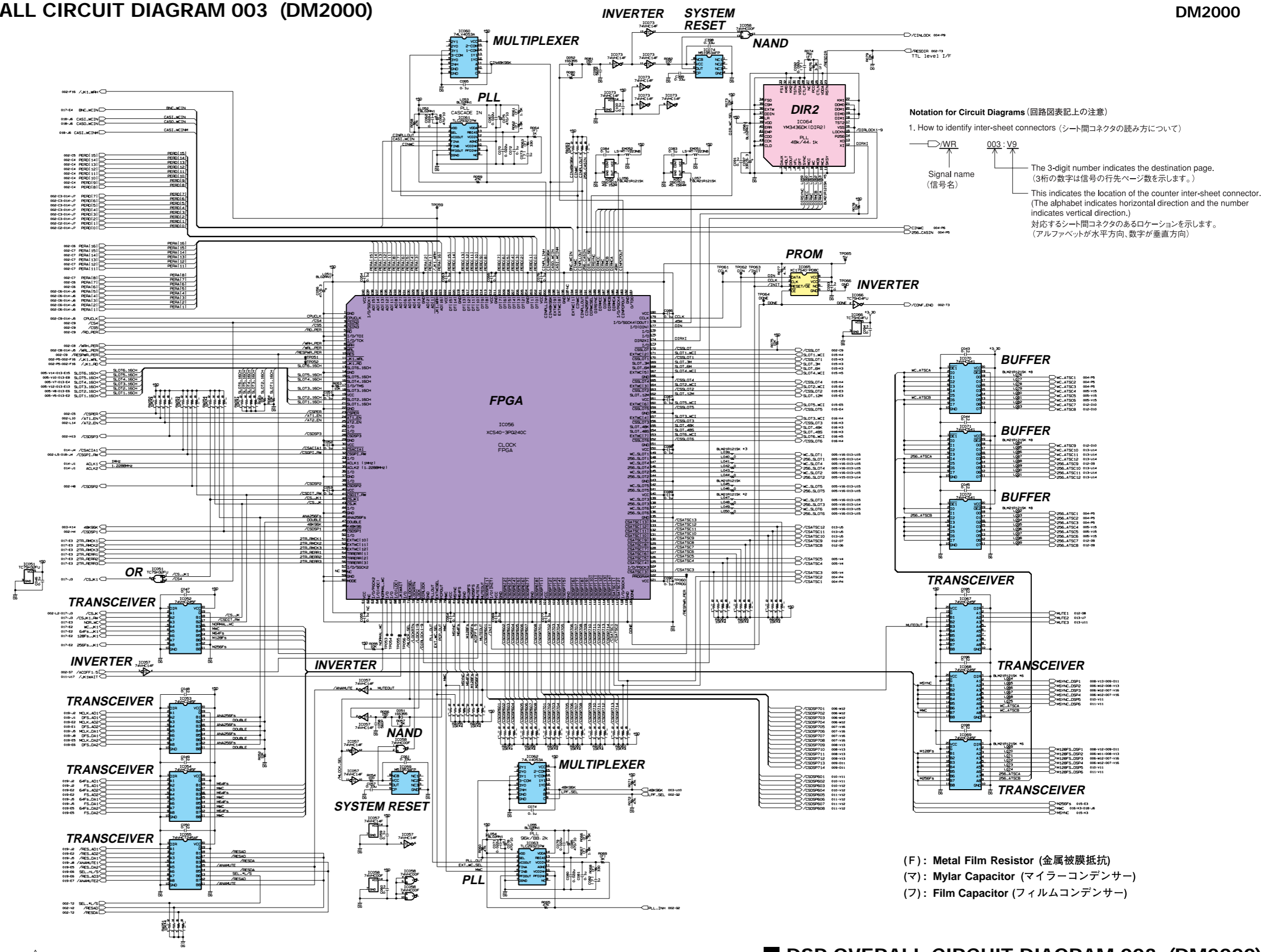
The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

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DSP OVERALL CIRCUIT DIAGRAM 003 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

Signal name (信号名) 003 : V9

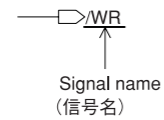
The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

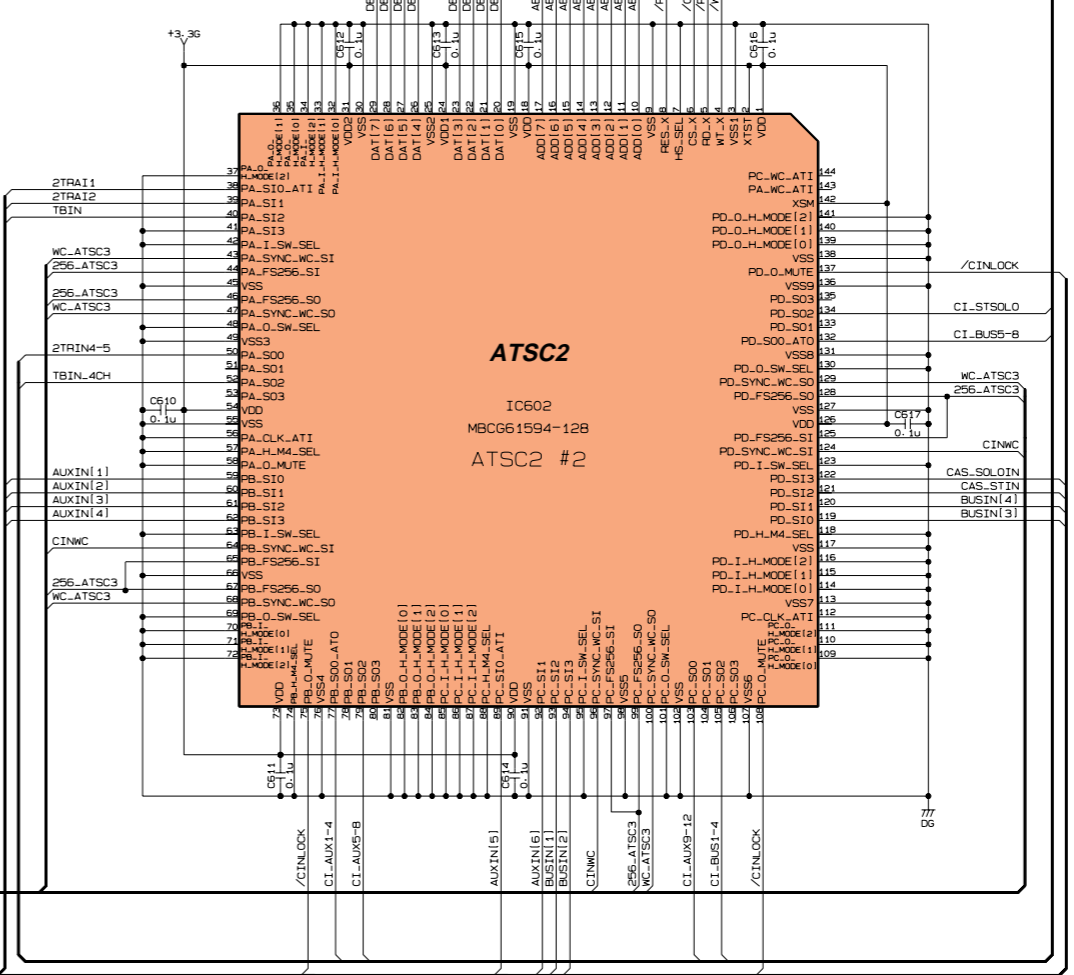
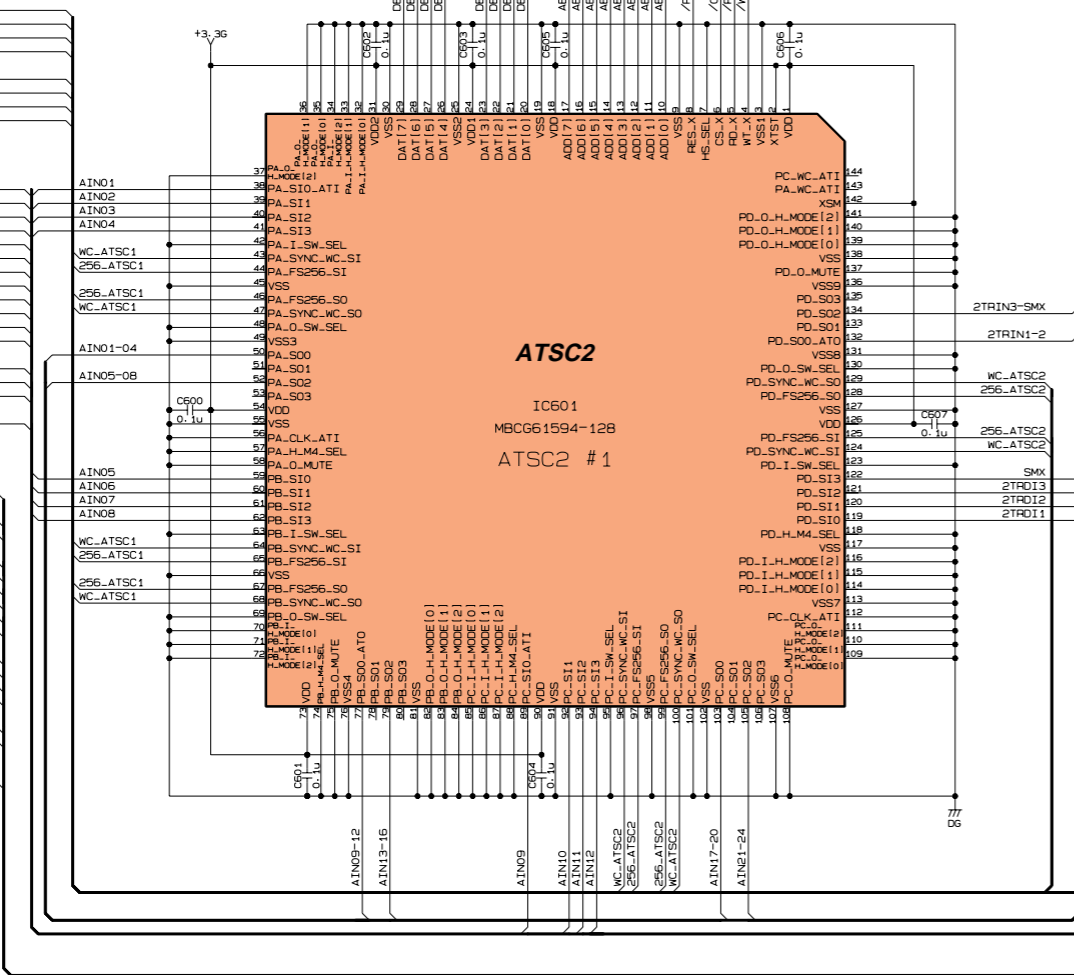
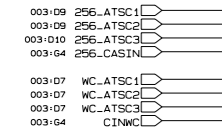
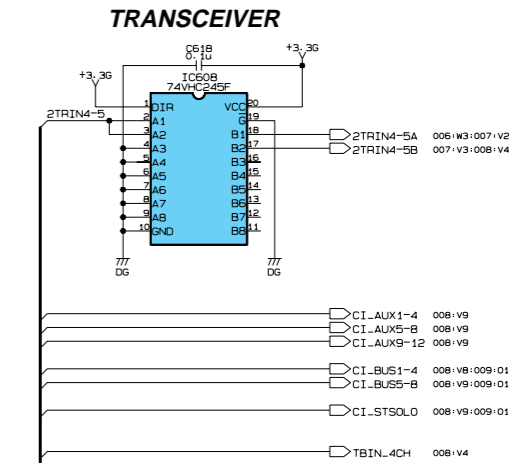
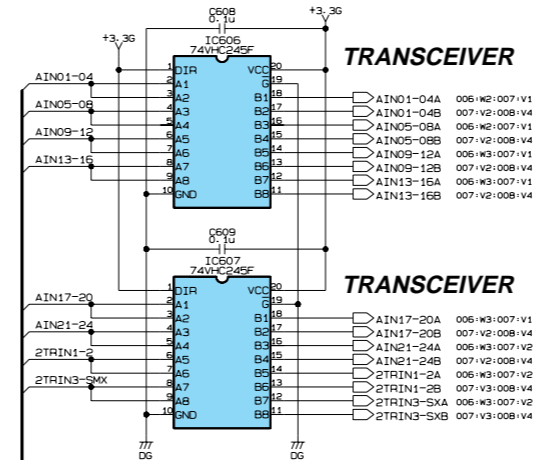
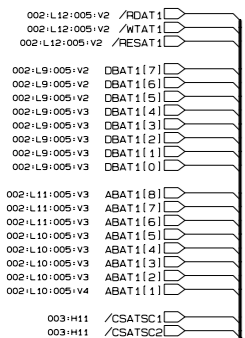
(F) : Metal Film Resistor (金属被膜抵抗)
 (M) : Mylar Capacitor (マイラーコンデンサー)
 (F) : Film Capacitor (フィルムコンデンサー)

Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

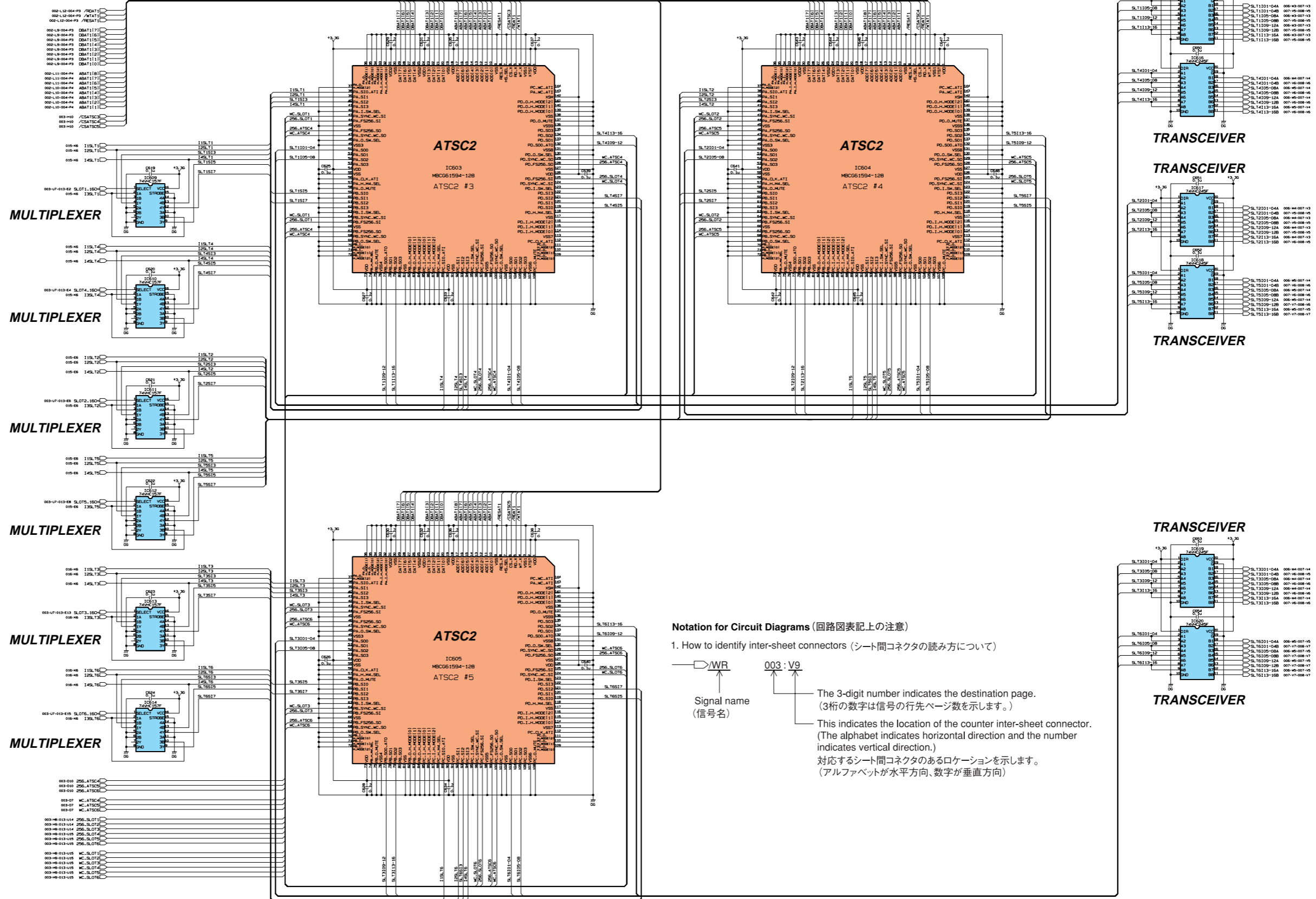


The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します.)
 This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)



DSP OVERALL CIRCUIT DIAGRAM 005 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

—▷/WR 003 : V9

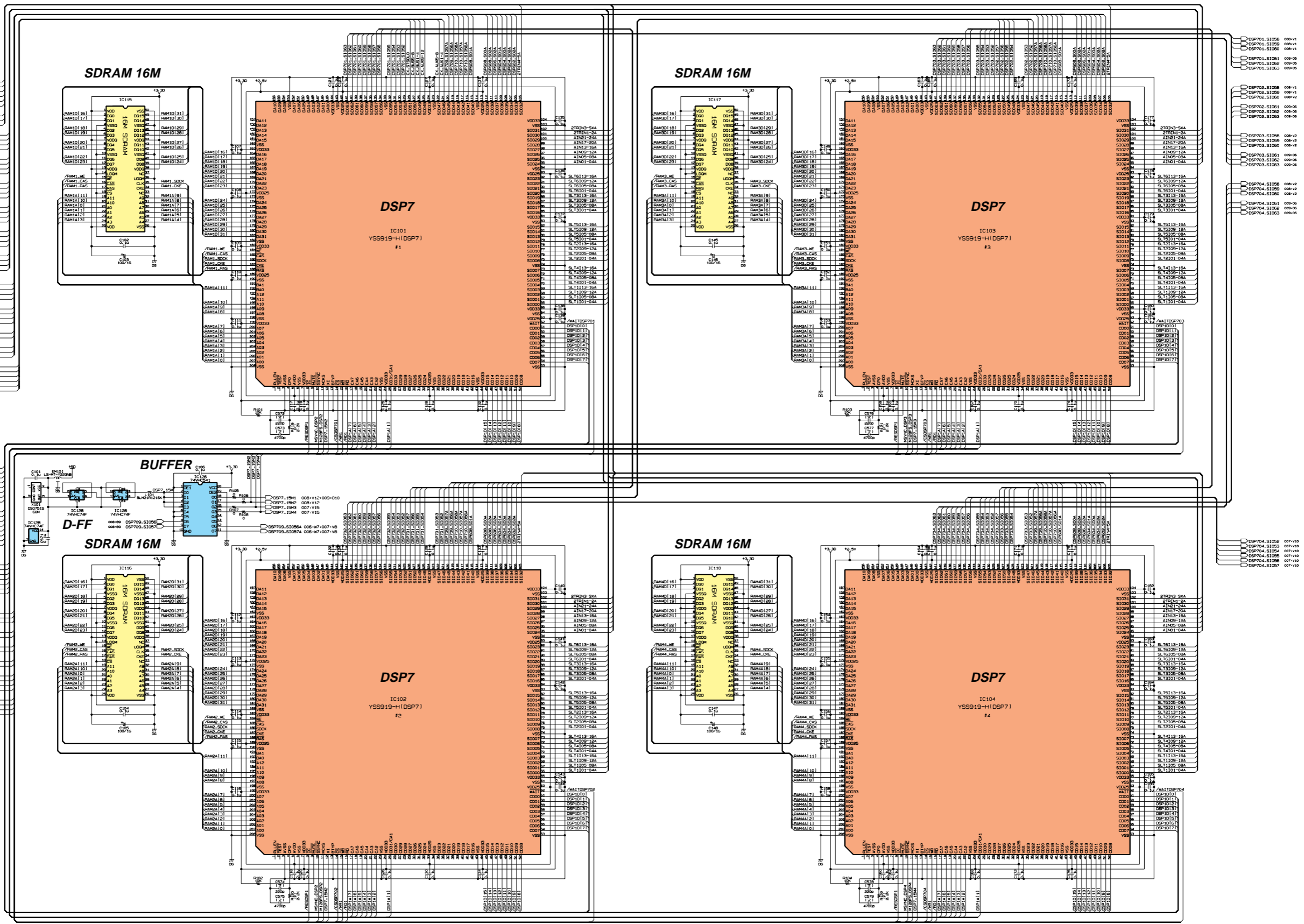
Signal name (信号名)

The 3-digit number indicates the destination page. (3桁の数字は信号の先行ページを示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

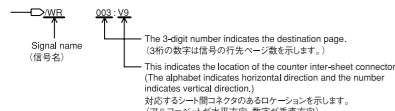
DSP OVERALL CIRCUIT DIAGRAM 006 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

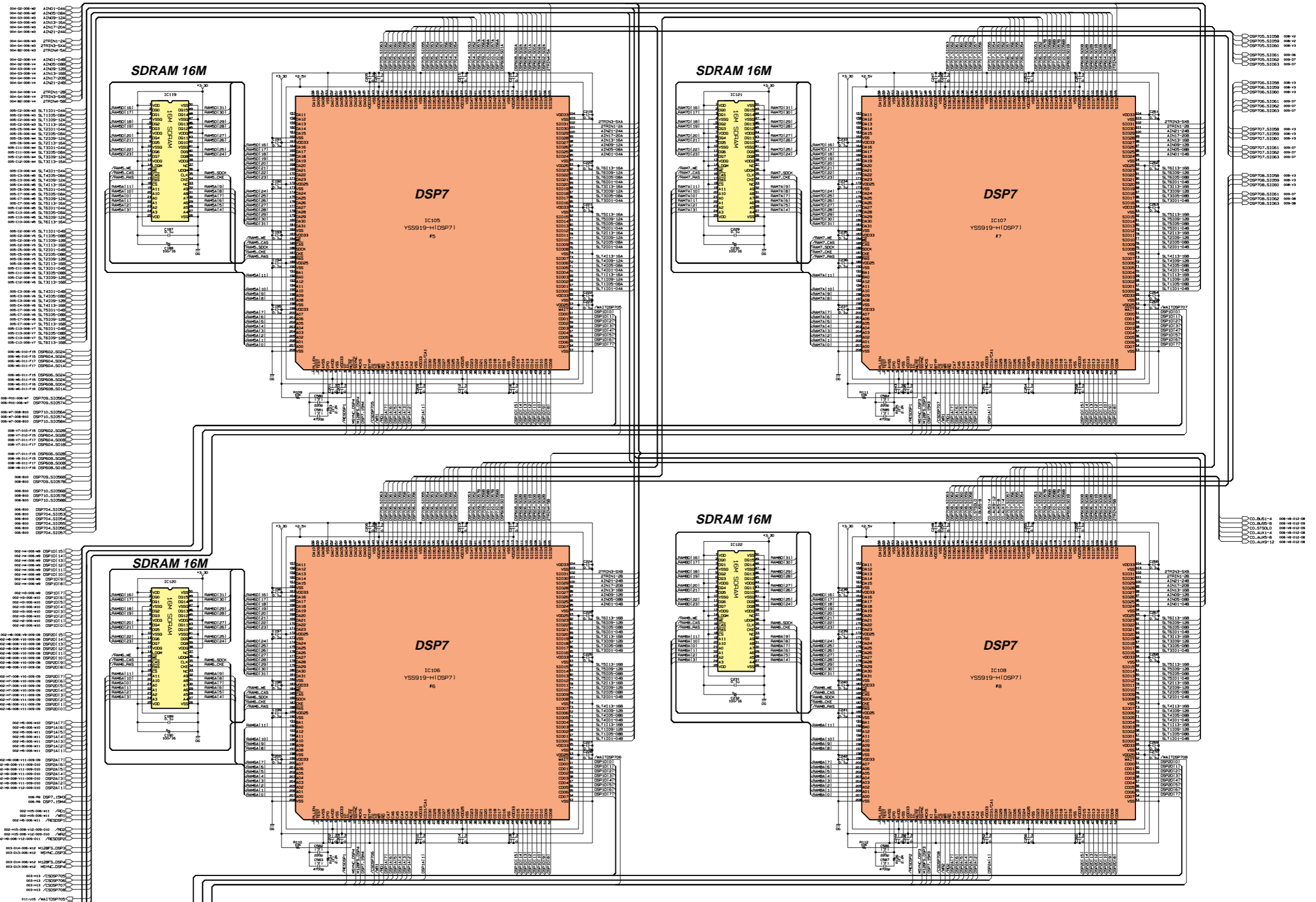


(F): Metal Film Resistor (金属被膜抵抗)
(マ): Mylar Capacitor (マイラーコンデンサー)

DSP OVERALL CIRCUIT DIAGRAM 006 (DM2000)

DSP OVERALL CIRCUIT DIAGRAM 007 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)
1. How to identify inter-sheet connectors (シート間コネクタの読み方について)
Signal name (信号名)
The 3-digit number indicates the destination page. (3桁の数字は信号の先行ページ数を示します。)
This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) (対応するシート間コネクタのあるロケーションを示します。アルファベットが水平方向、数字が垂直方向)

(F) : Metal Film Resistor (金属被膜抵抗)
(M) : Mylar Capacitor (マイラーコンデンサー)

DSP OVERALL CIRCUIT DIAGRAM 007 (DM2000)

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DSP OVERALL CIRCUIT DIAGRAM 008 (DM2000)

DM2000

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Notation for Circuit Diagrams (回路図表記上の注意)
1. How to identify inter-sheet connectors (シート間コネクタの読み方について)
Signal name (信号名)
The 3-digit number indicates the destination page. (3桁の数字は相手シートページ番号を示します。)
This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) (対応するシート間コネクタの位置を示します。アルファベットが水平方向、数字が垂直方向)

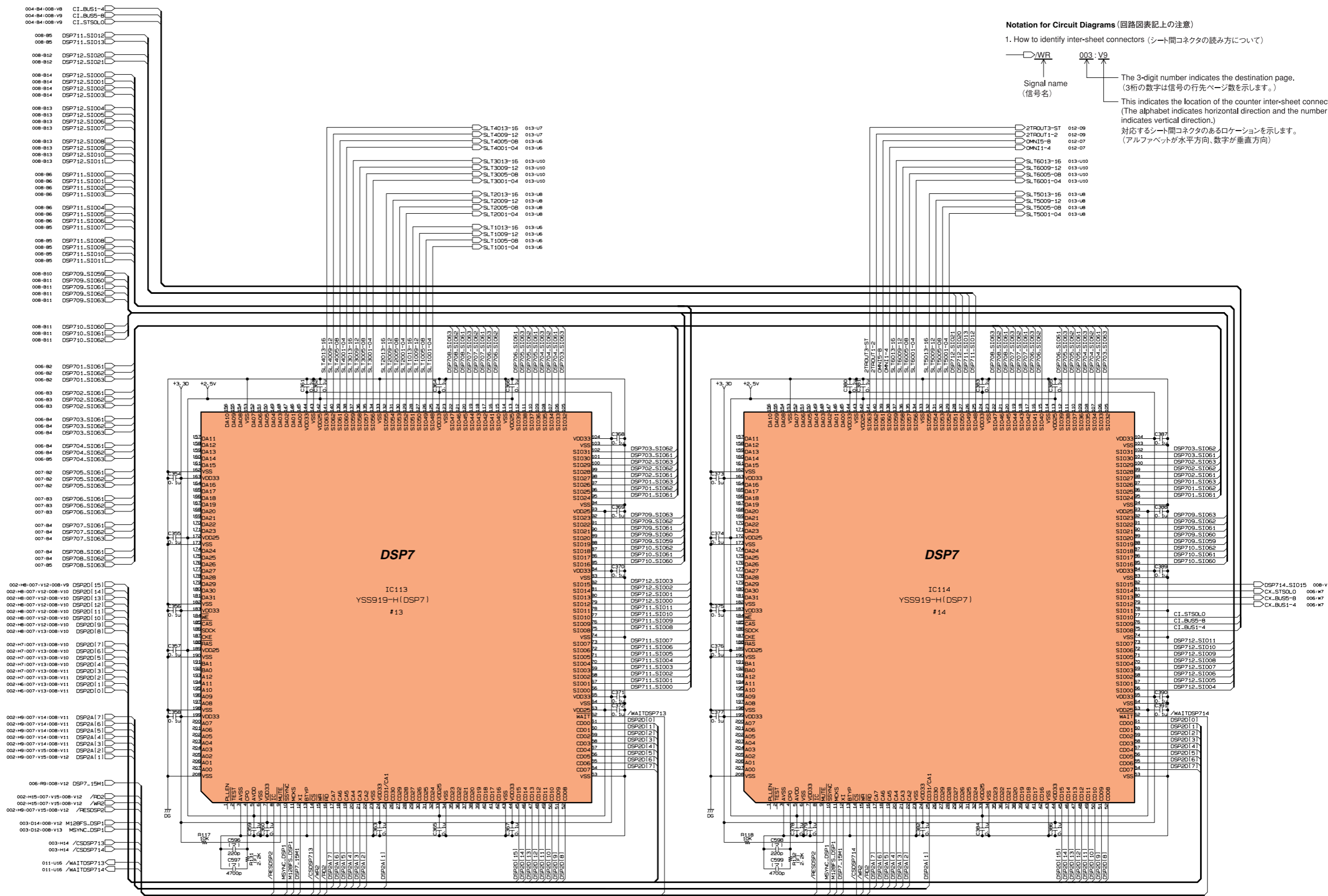
(F) : Metal Film Resistor (金属被膜抵抗)
(M) : Mylar Capacitor (マイラーコンデンサー)

DSP OVERALL CIRCUIT DIAGRAM 008 (DM2000)

38CC1-8822216-8

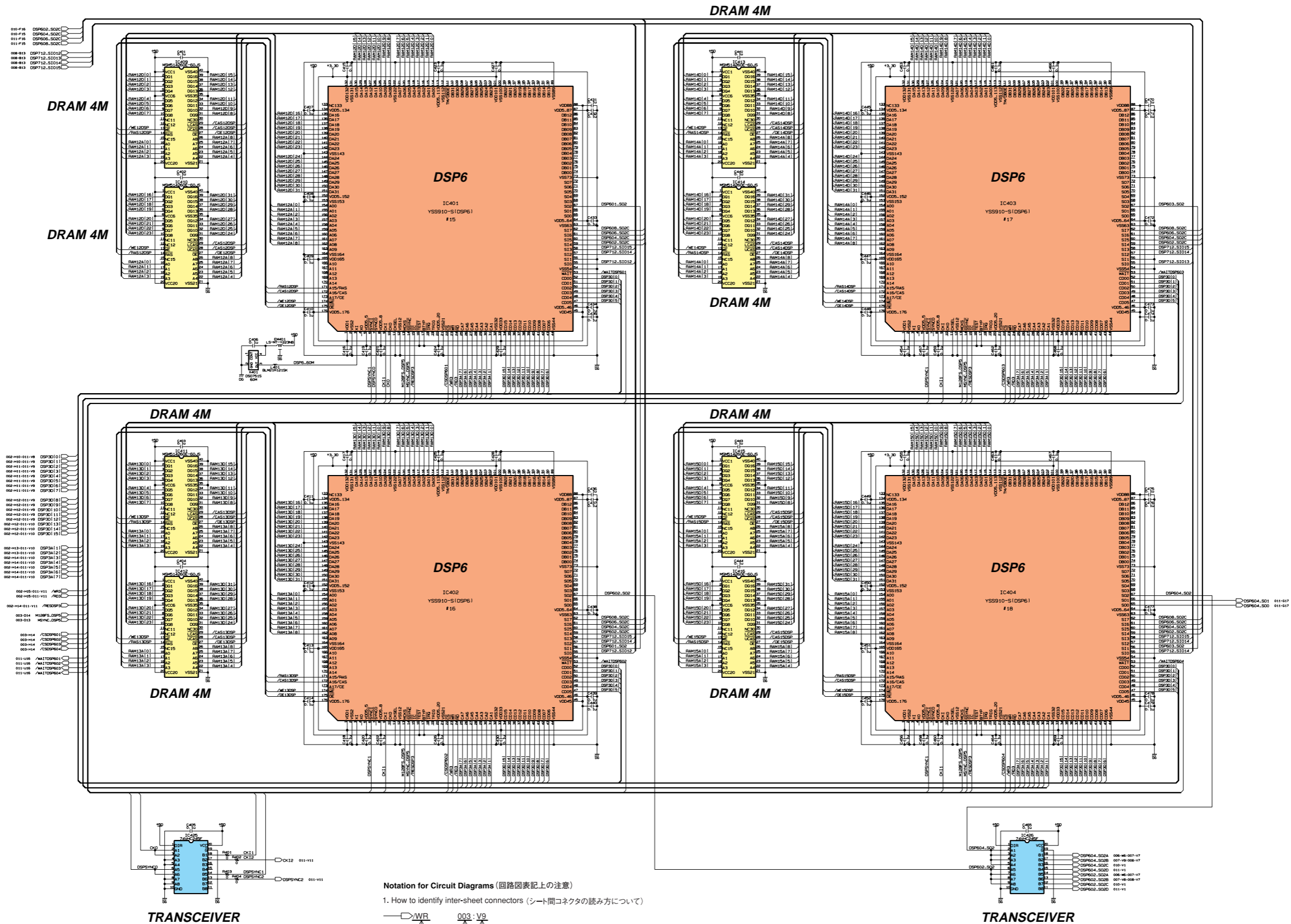
■ DSP OVERALL CIRCUIT DIAGRAM 009 (DM2000)

DM2000



DSP OVERALL CIRCUIT DIAGRAM 010 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

—▷WR 003 : V9

Signal name (信号名)

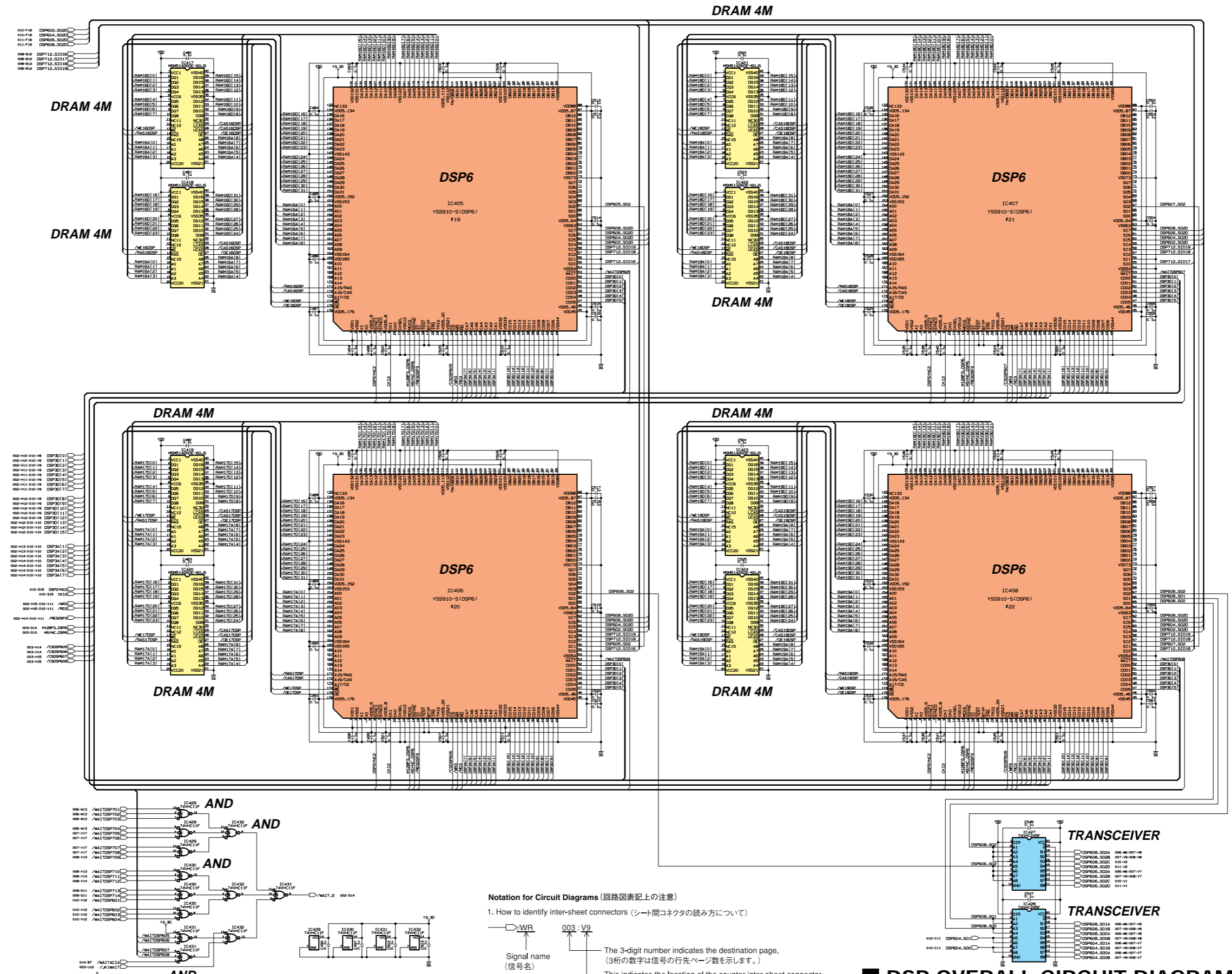
The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるローケーションを示します。(アルファベットが水平方向、数字が垂直方向)

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DSP OVERALL CIRCUIT DIAGRAM 011 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

— WR —
Signal name (信号名)

003 : V9

This 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

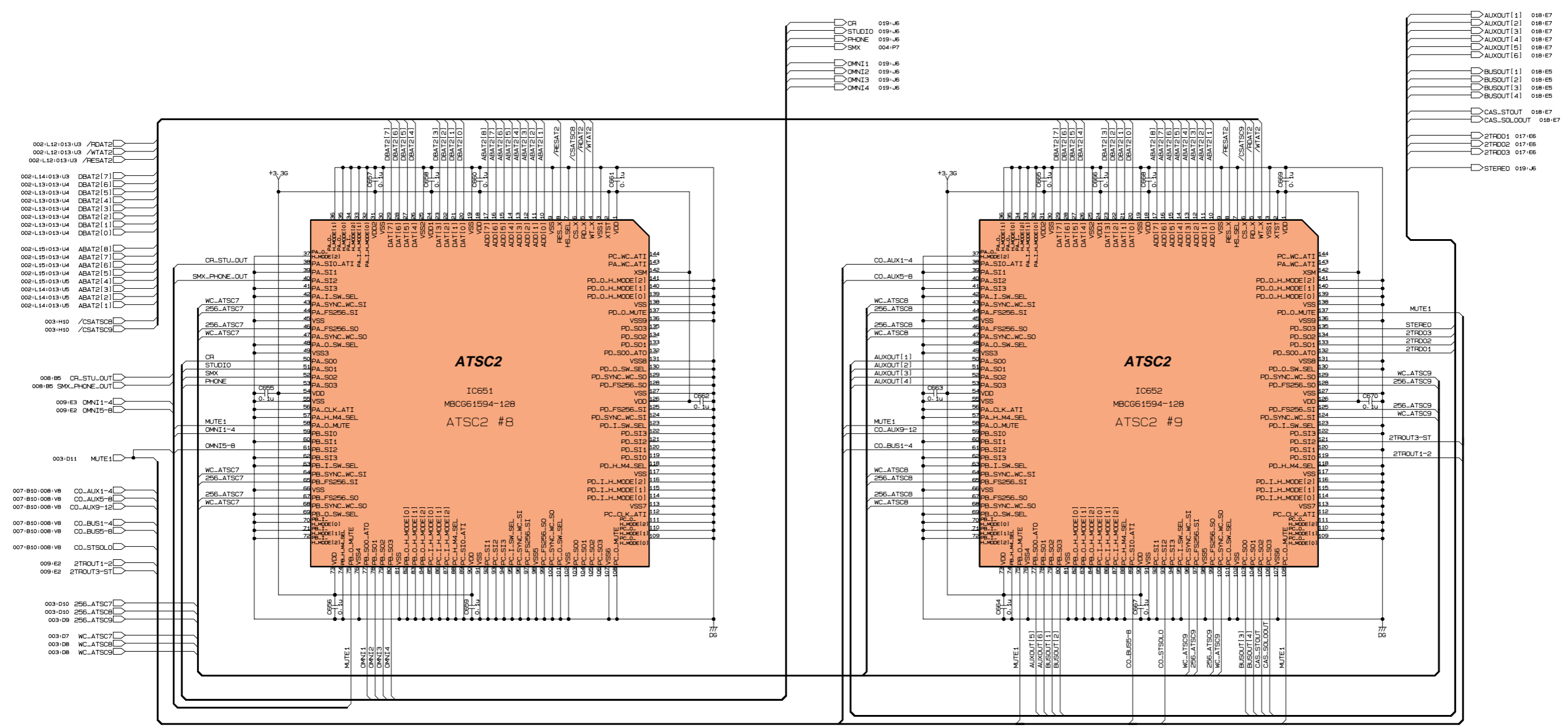
DSP OVERALL CIRCUIT DIAGRAM 011 (DM2000)

38CC1-8822216-11

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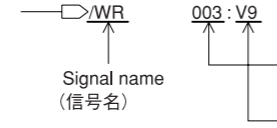
DSP OVERALL CIRCUIT DIAGRAM 012 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



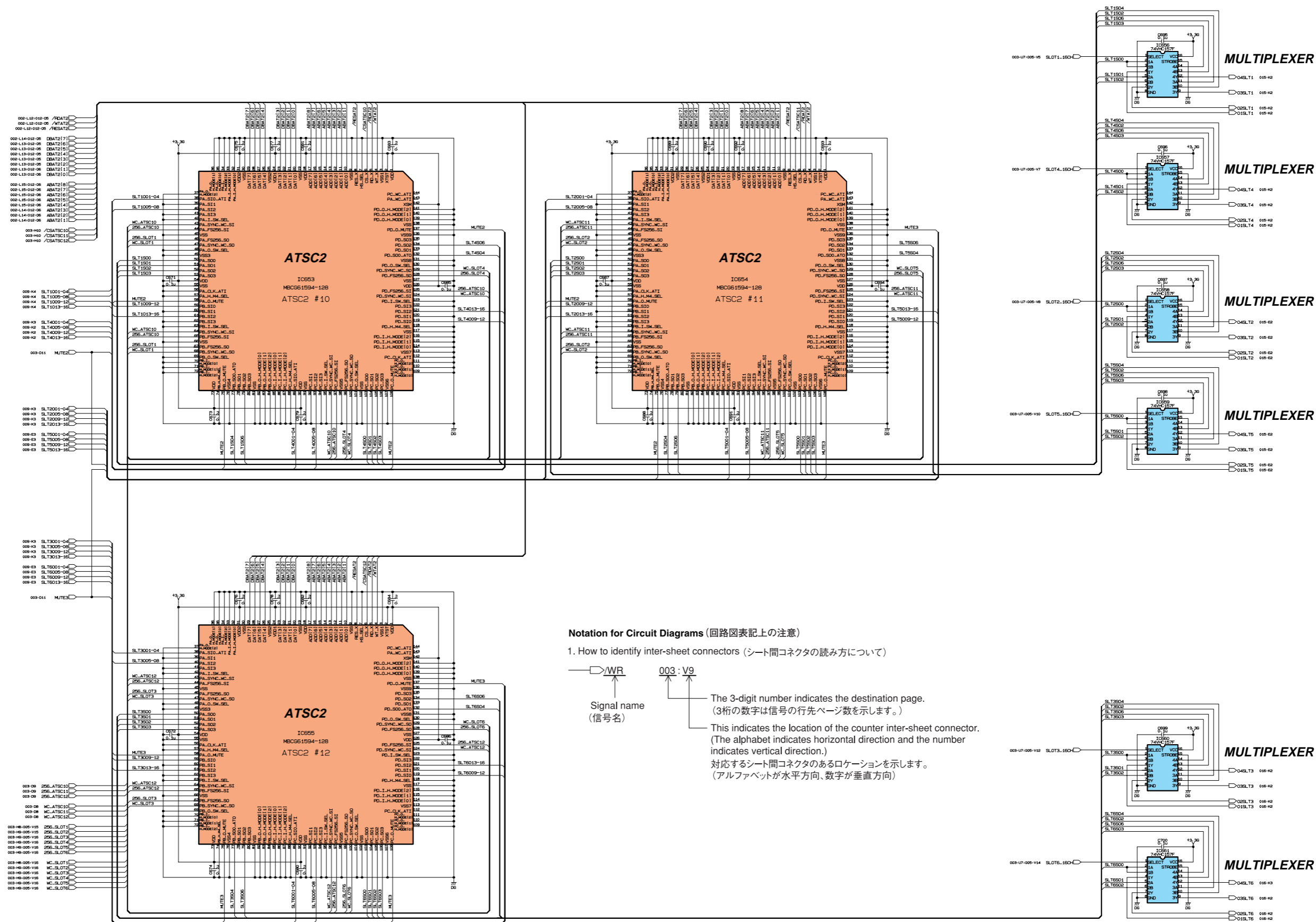
Signal name (信号名)

The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

DSP OVERALL CIRCUIT DIAGRAM 013 (DM2000)

DM2000



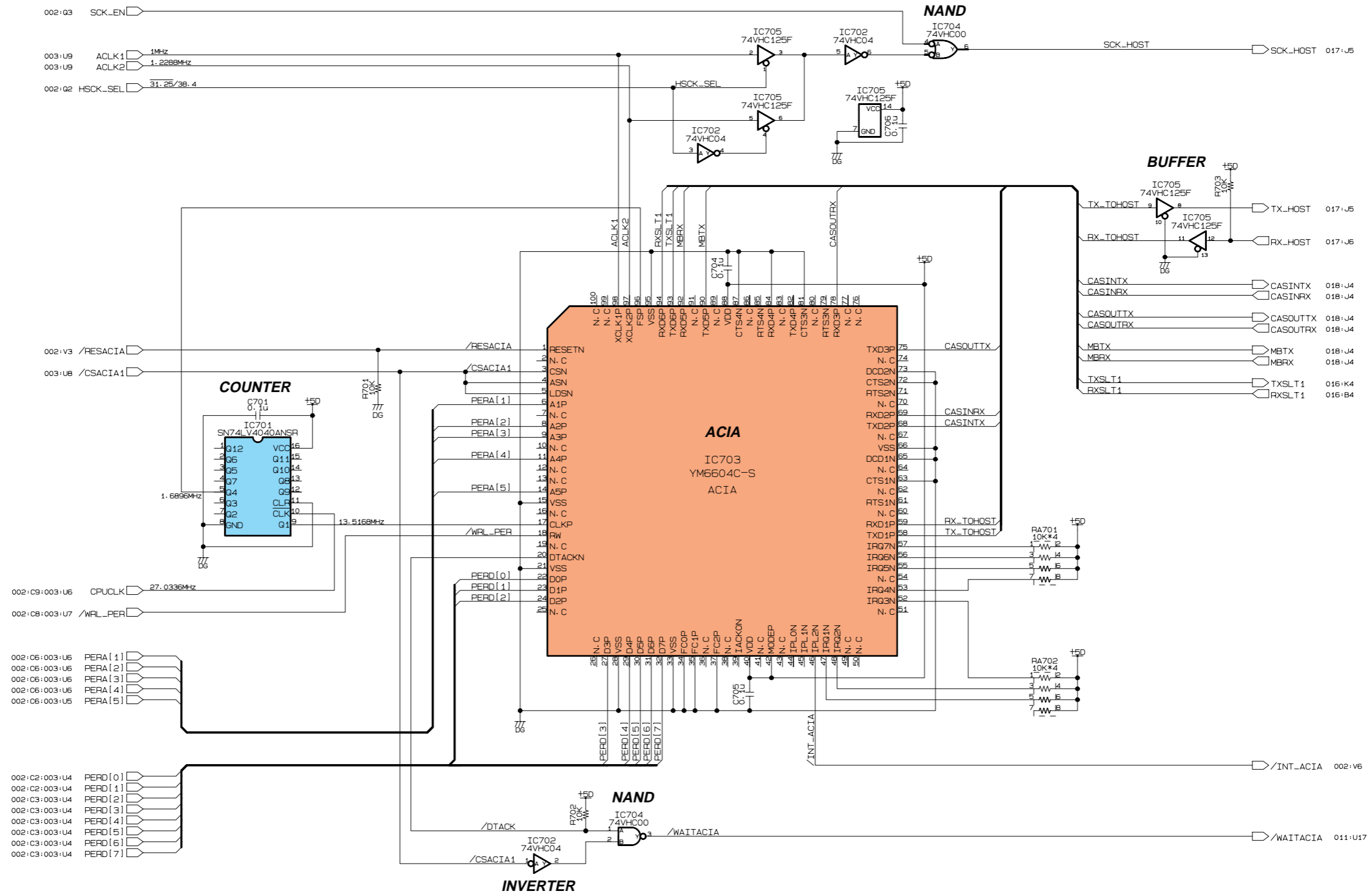
Notation for Circuit Diagrams (回路図表記上の注意)

- How to identify inter-sheet connectors (シート間コネクタの読み方について)
 - Signal name (信号名)
 - The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)
 - This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

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DSP OVERALL CIRCUIT DIAGRAM 014 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

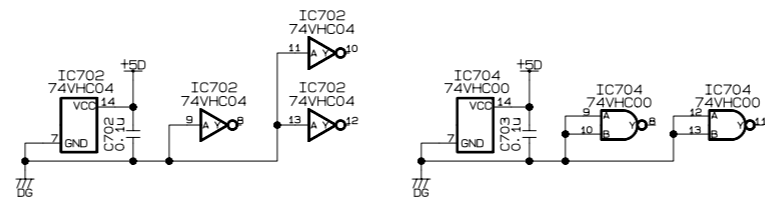
1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

Signal name (信号名)

The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

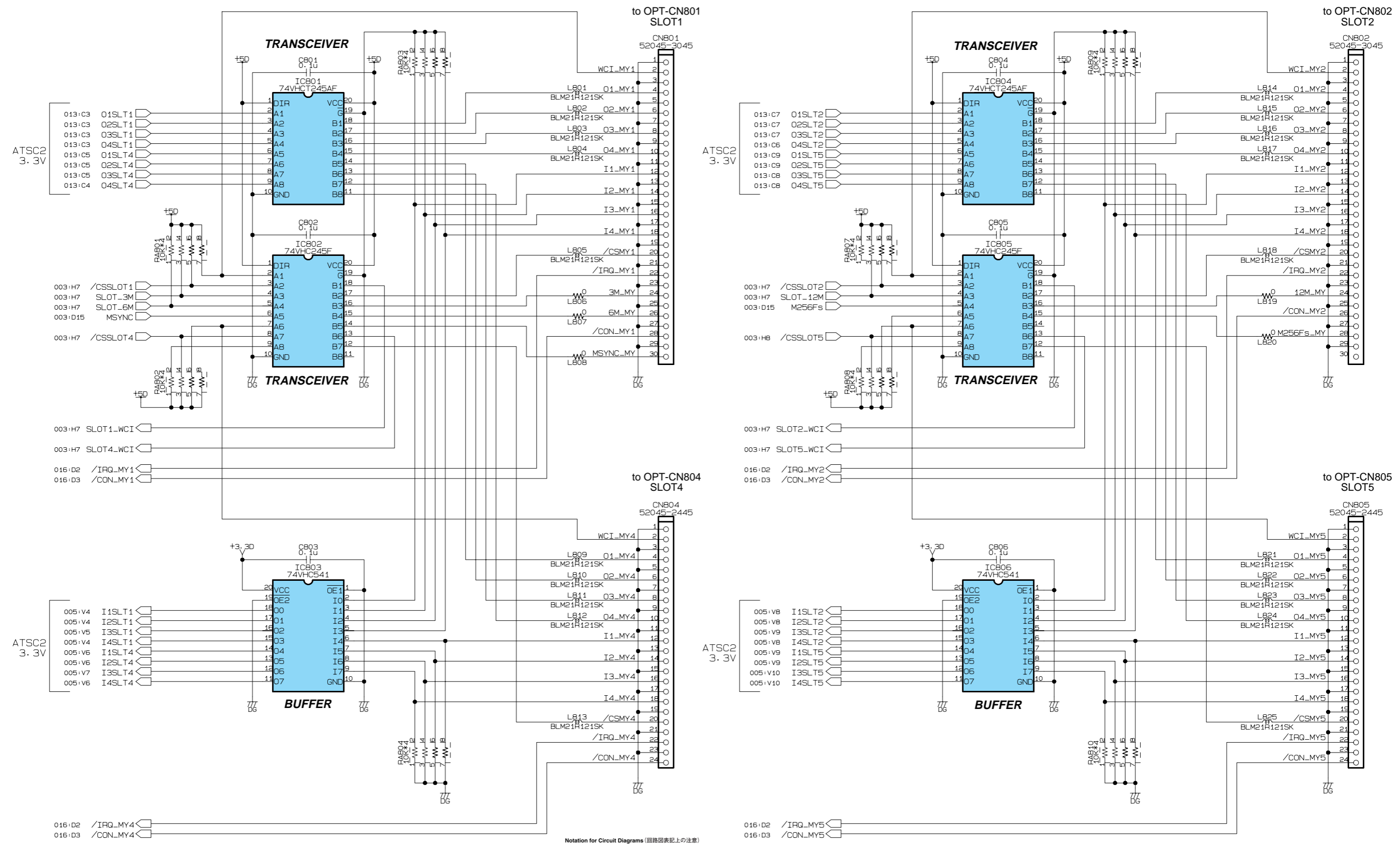
This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)

 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)



■ DSP OVERALL CIRCUIT DIAGRAM 015 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

Signal name (信号名)

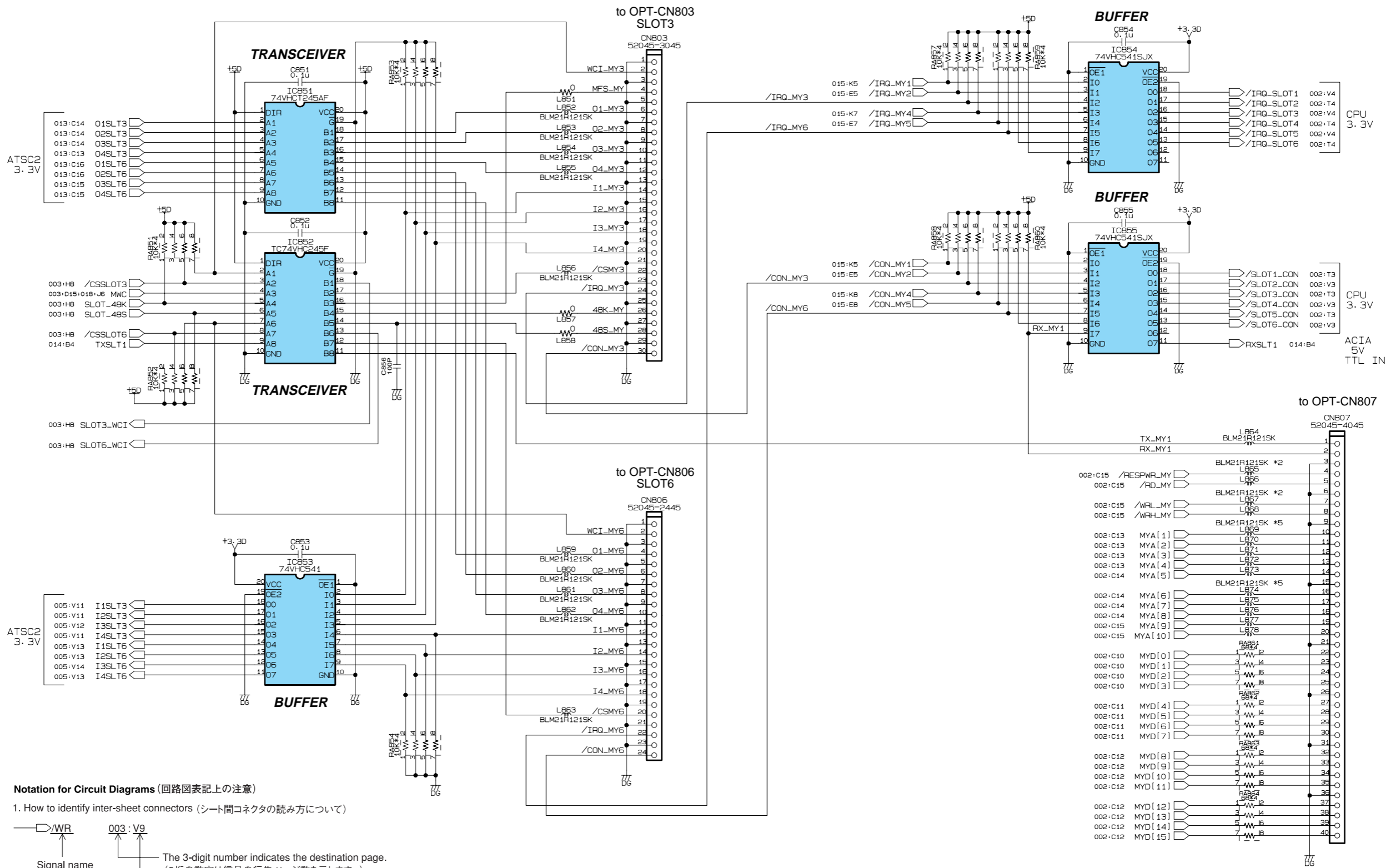
 The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

 This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)

 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

DSP OVERALL CIRCUIT DIAGRAM 016 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

—▷WR 003:V9

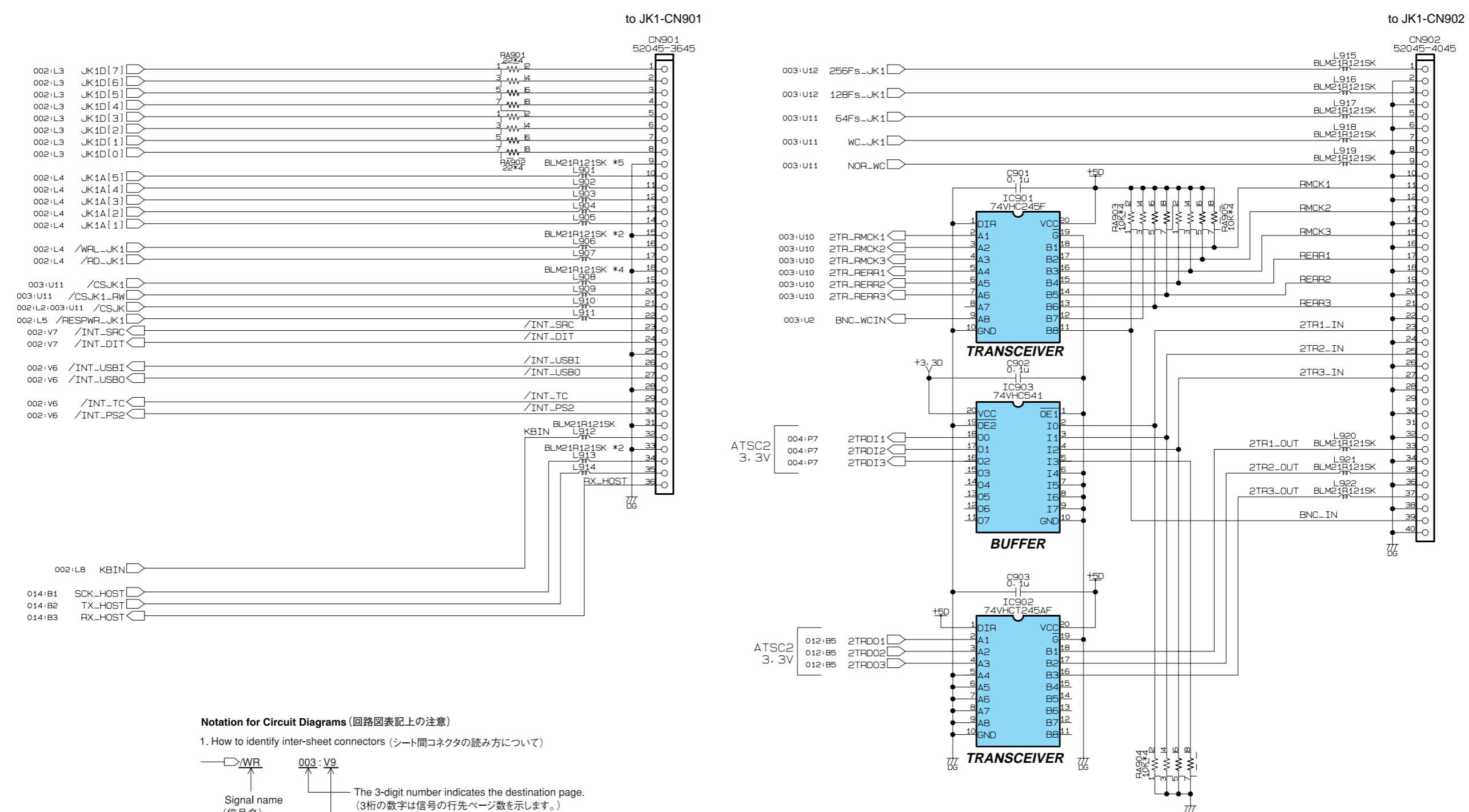
Signal name (信号名)

The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) (対応するシート間コネクタのあるロケーションを示します。 (アルファベットが水平方向、数字が垂直方向))

■ DSP OVERALL CIRCUIT DIAGRAM 017 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

—▷WR

Signal name (信号名)

003:V9

The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

DSP OVERALL CIRCUIT DIAGRAM 018 (DM2000)

DM2000

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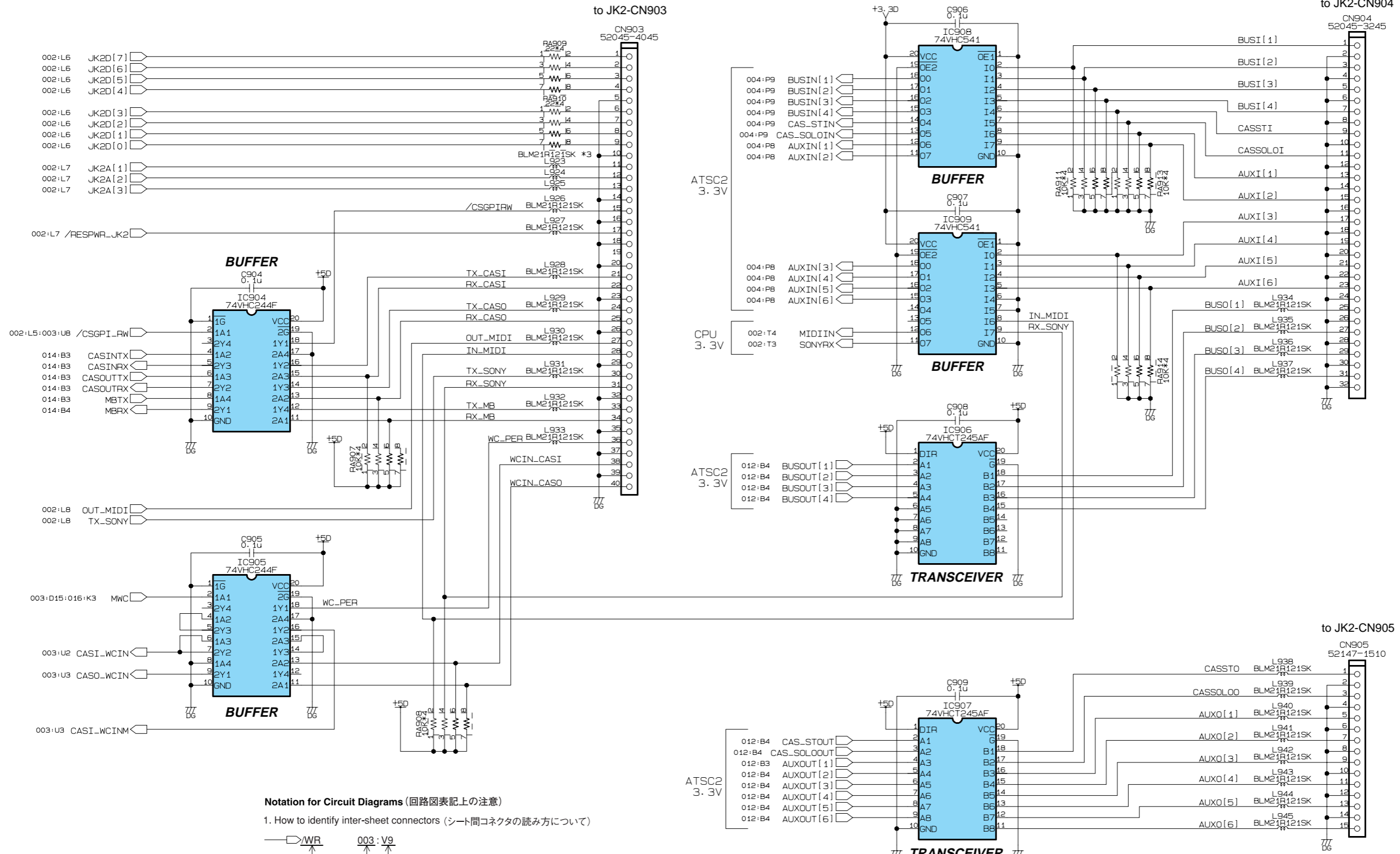
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Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

—WR—
↑
Signal name (信号名)

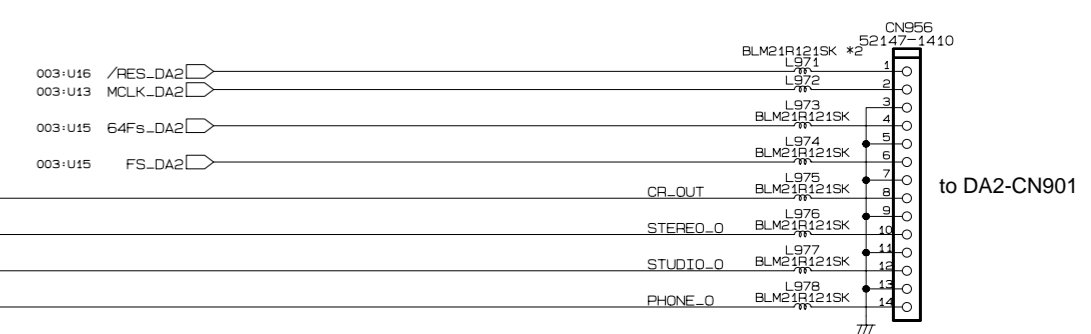
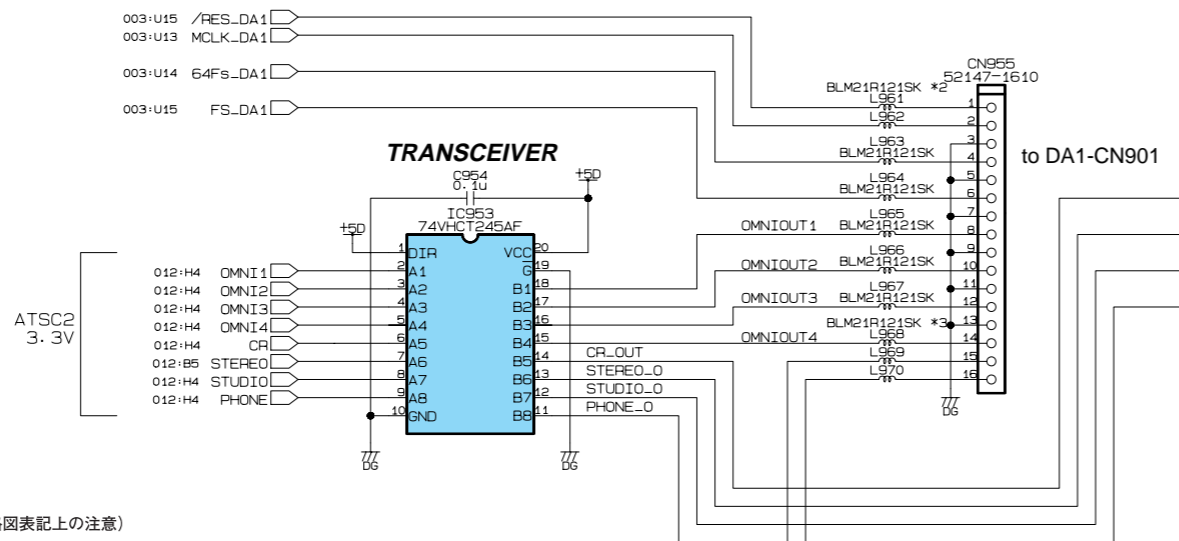
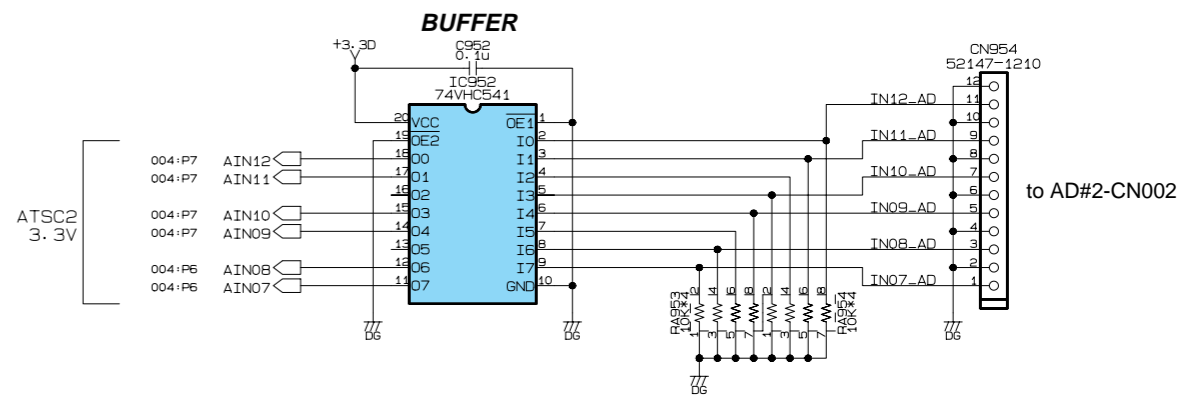
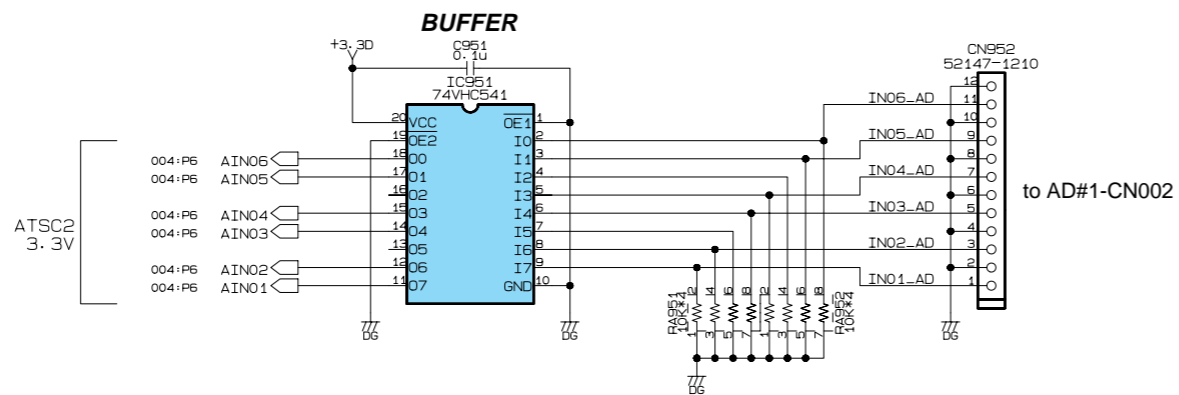
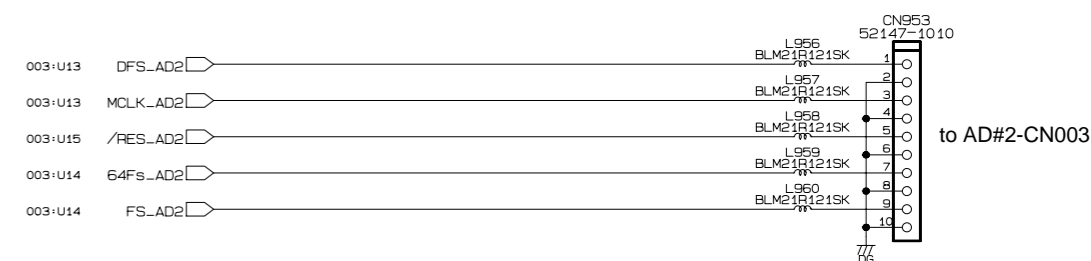
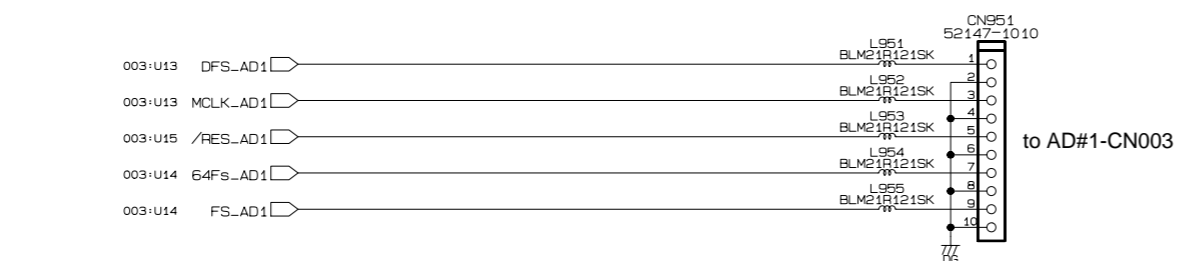
003:V9
↑
The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

↑
This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

DSP OVERALL CIRCUIT DIAGRAM 018 (DM2000)

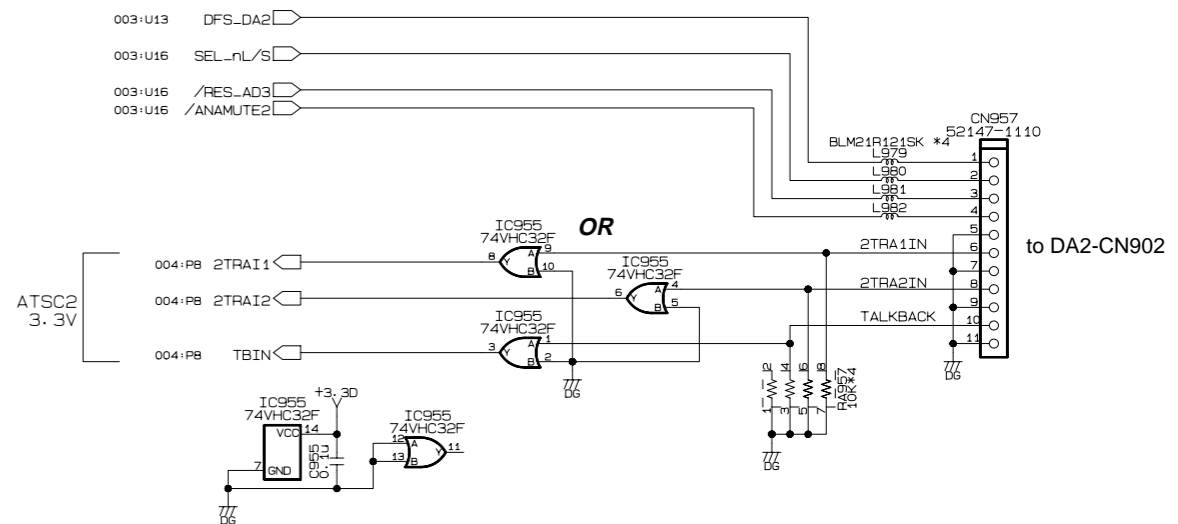
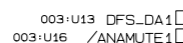
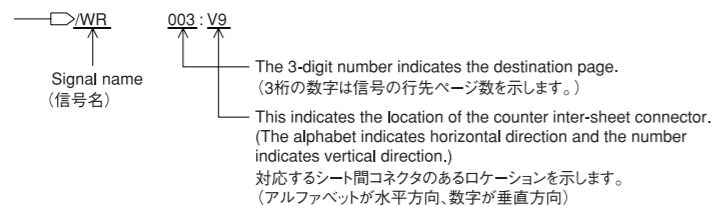
DSP OVERALL CIRCUIT DIAGRAM 019 (DM2000)

DM2000



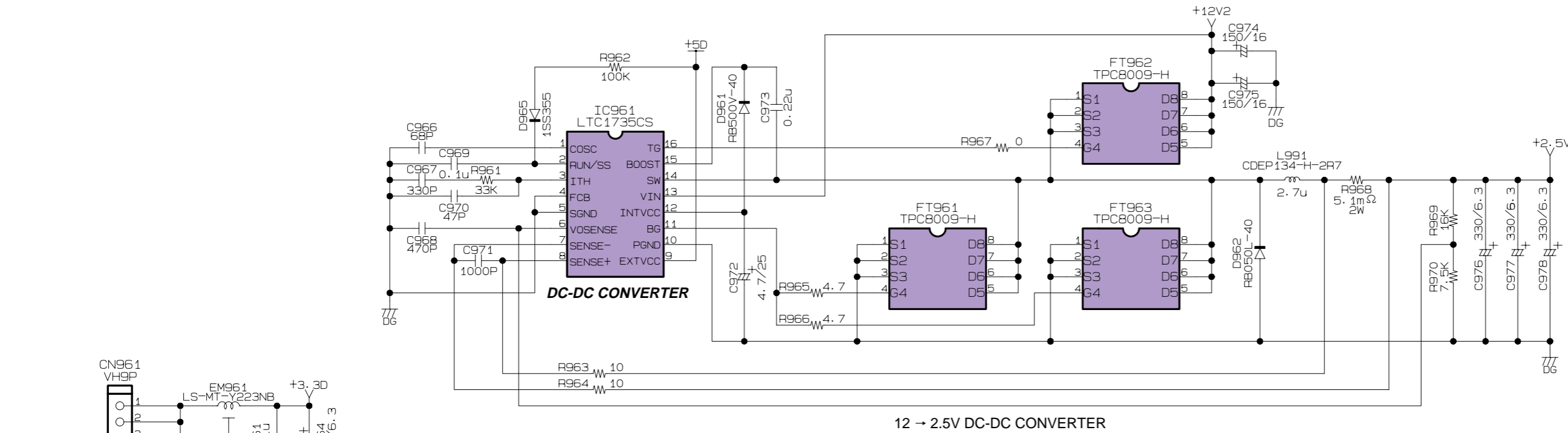
Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

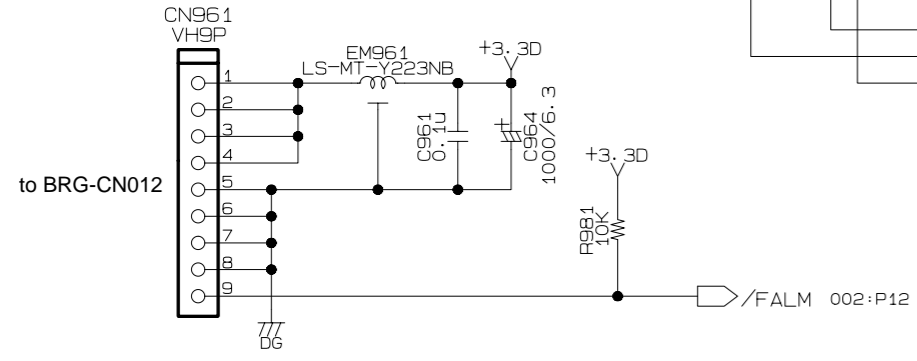


■ DSP OVERALL CIRCUIT DIAGRAM 020 (DM2000)

DM2000

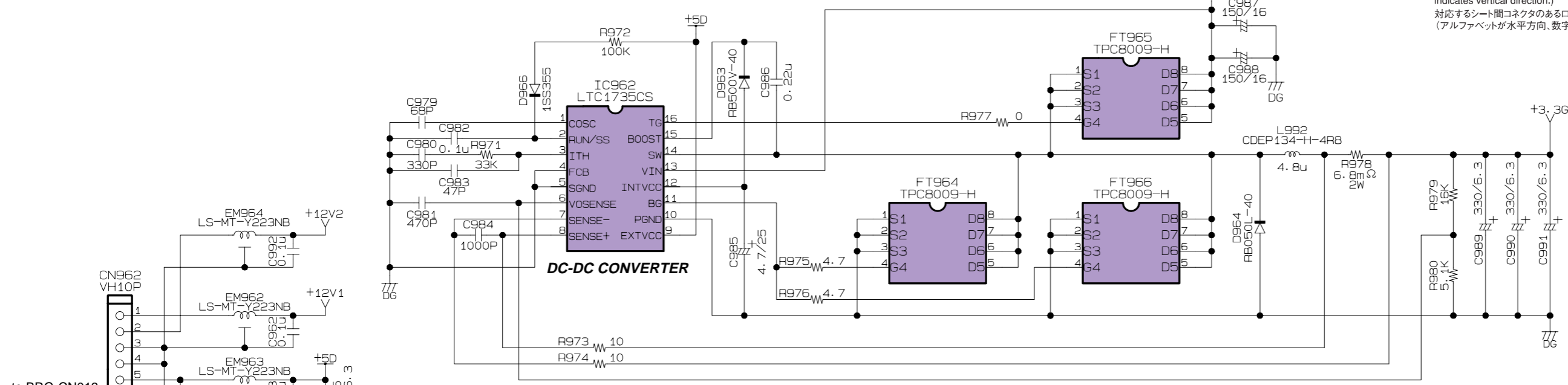
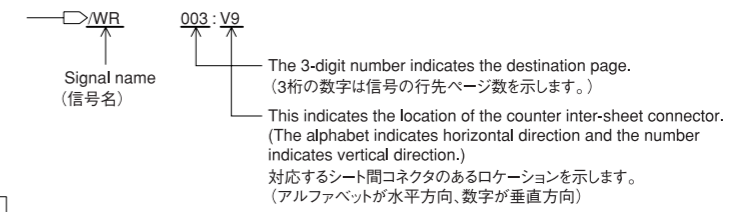


12 → 2.5V DC-DC CONVERTER

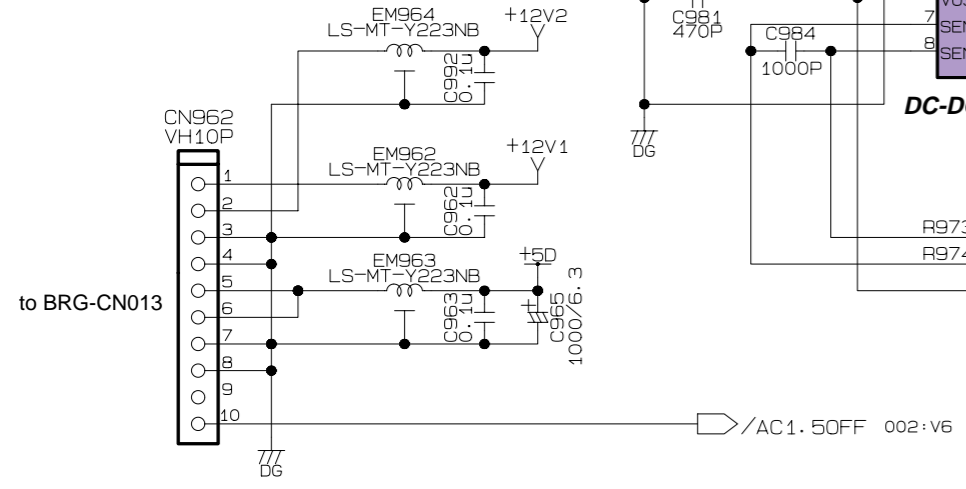


Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

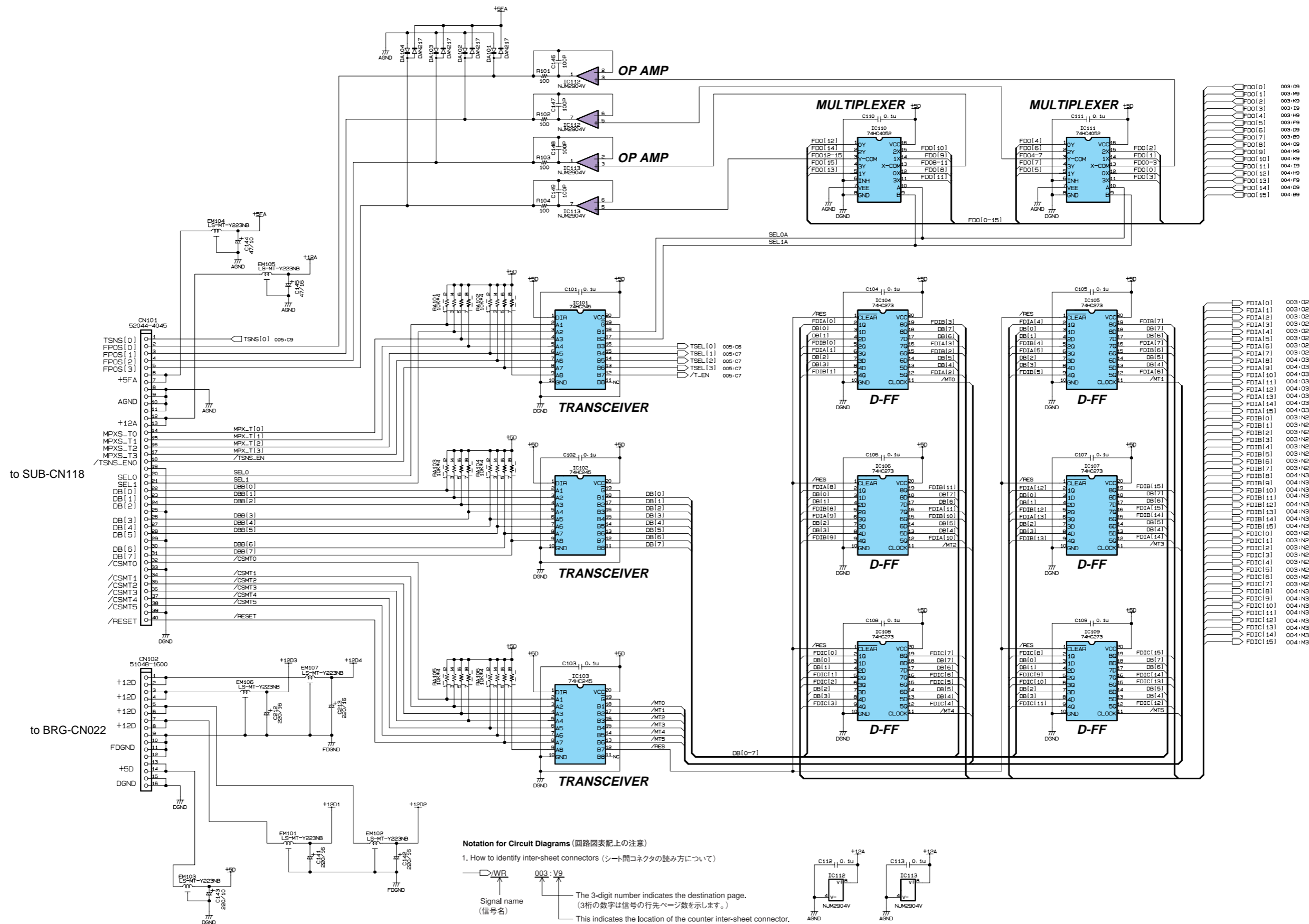


12 → 3.3V DC-DC CONVERTER



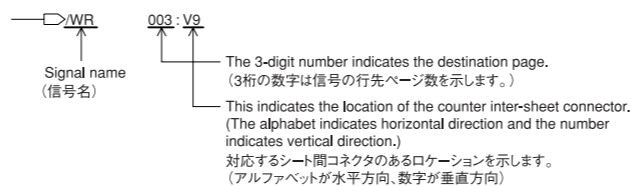
FD1 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

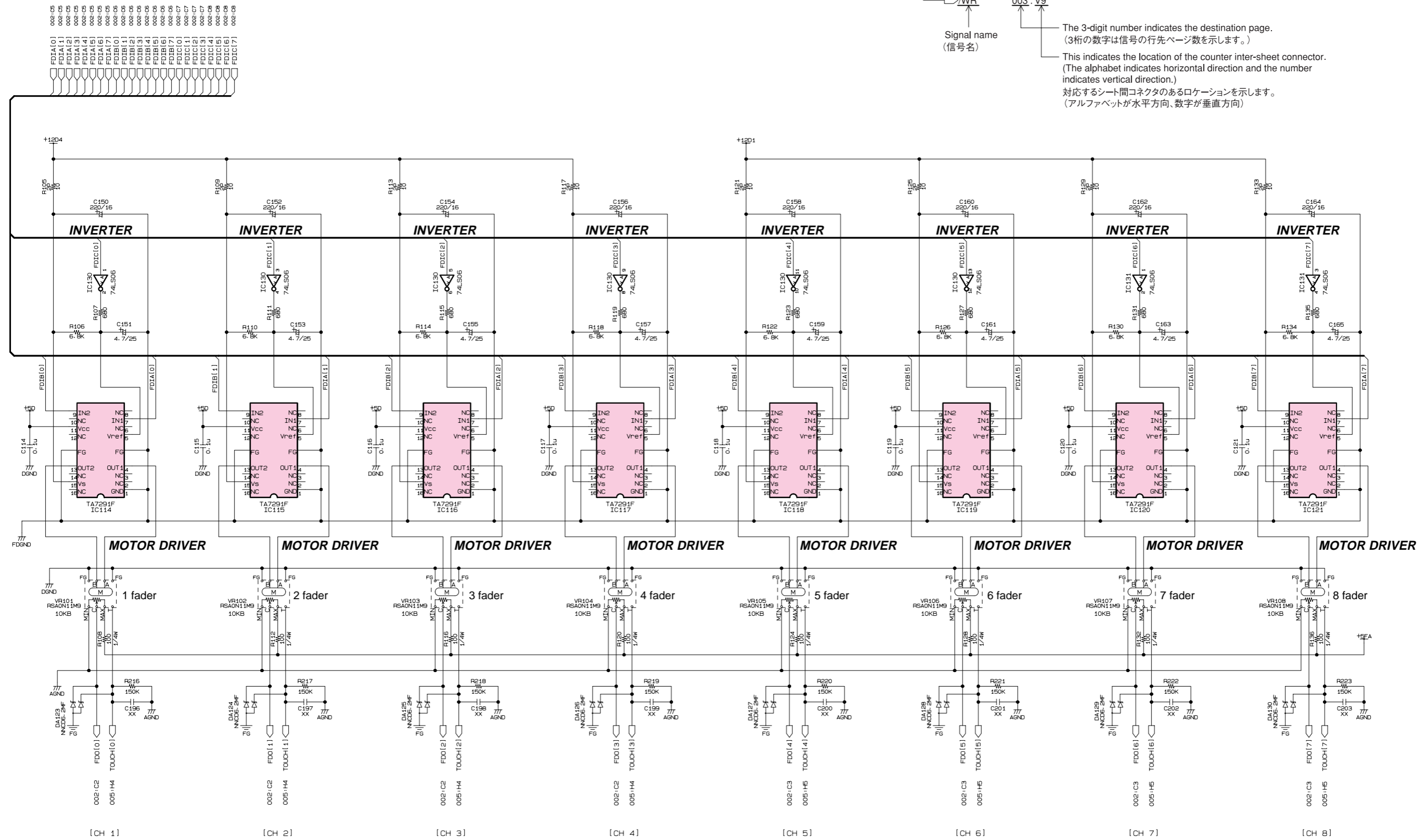
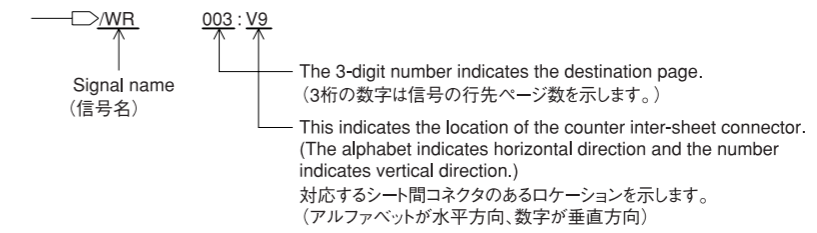


FD1 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

DM2000

Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



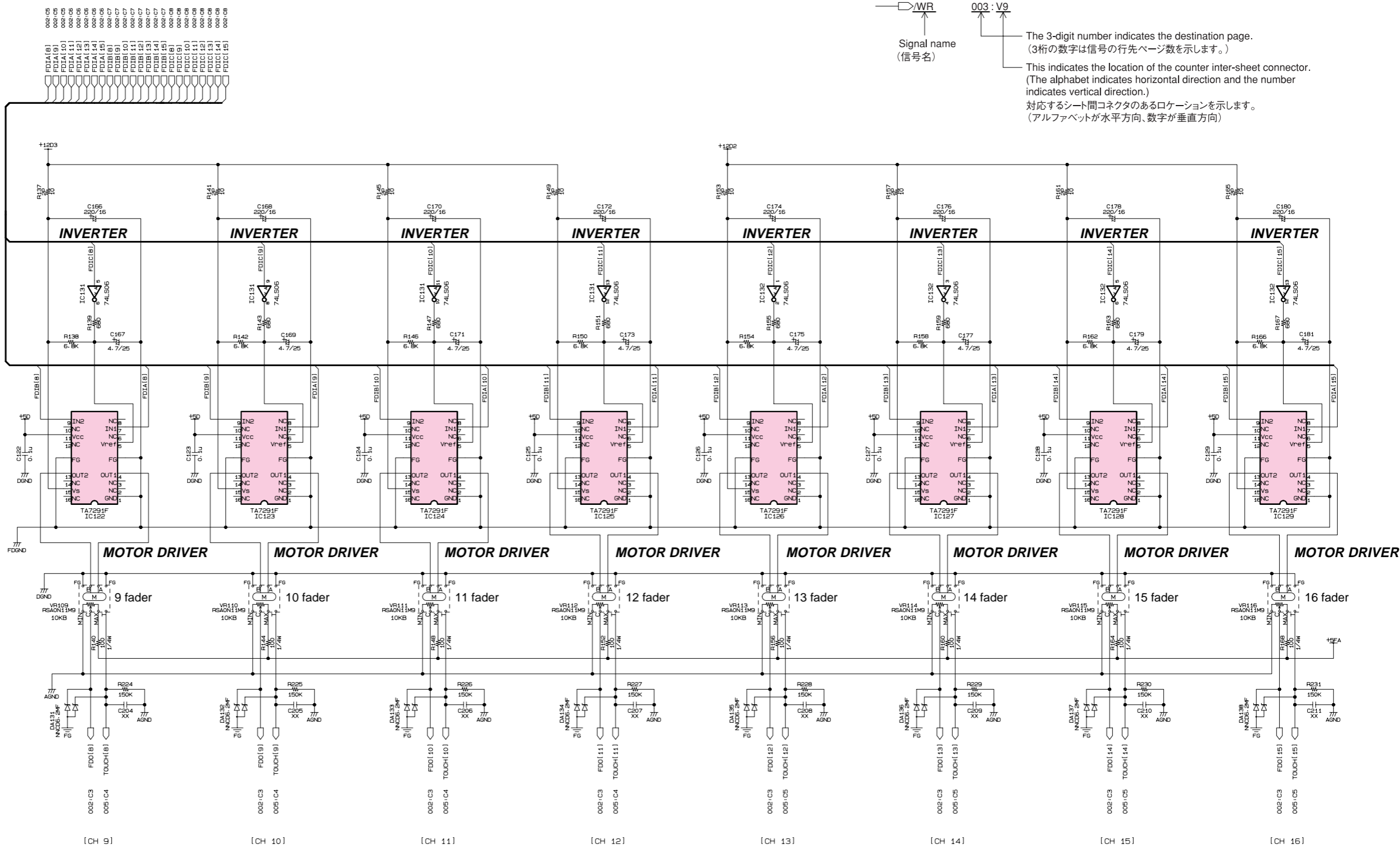
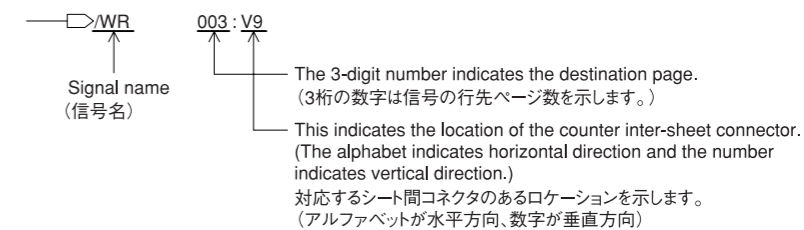
XX : not installed (実装しない)
2P : 2W Metal Oxide Film Resistor (2W酸化金属被膜抵抗)

FD1 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

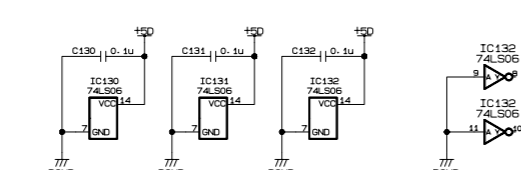
DM2000

Notation for Circuit Diagrams (回路図表記上の注意)

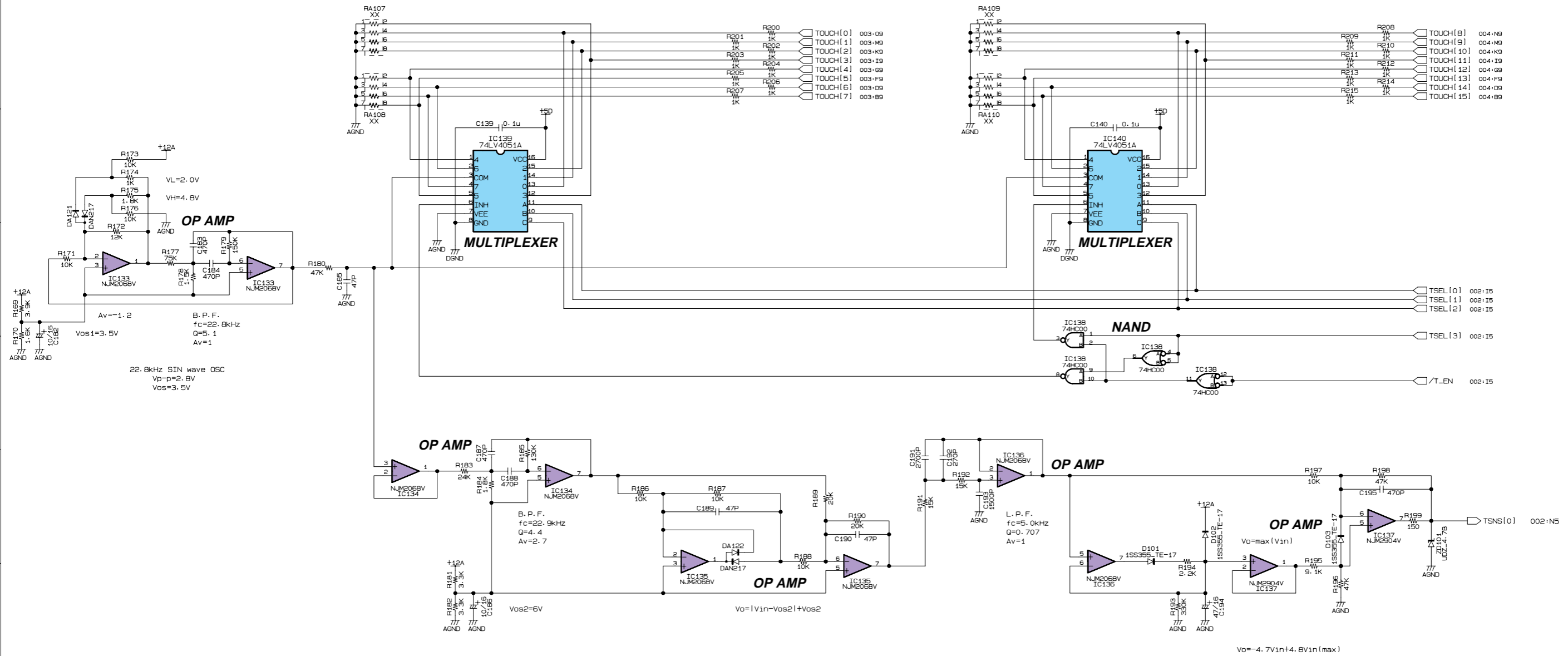
1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



- 002:C5
- 002:C6
- 002:C7
- 002:C8
- 002:C9
- 002:C10
- 002:C11
- 002:C12
- 002:C13
- 002:C14
- 002:C15
- 002:C16
- 002:C17
- 002:C18
- 002:C19
- 002:C20
- 002:C21
- 002:C22
- 002:C23
- 002:C24
- 002:C25
- 002:C26
- 002:C27
- 002:C28
- 002:C29
- 002:C30
- 002:C31
- 002:C32
- 002:C33
- 002:C34
- 002:C35
- 002:C36
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- 002:C40
- 002:C41
- 002:C42
- 002:C43
- 002:C44
- 002:C45
- 002:C46
- 002:C47
- 002:C48
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- 002:C50
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- 002:C83
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- 002:C85
- 002:C86
- 002:C87
- 002:C88
- 002:C89
- 002:C90
- 002:C91
- 002:C92
- 002:C93
- 002:C94
- 002:C95
- 002:C96
- 002:C97
- 002:C98
- 002:C99
- 002:C100

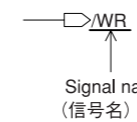


XX : not installed (実装しない)
2P : 2W Metal Oxide Film Resistor (2W酸化金属被膜抵抗)



Notation for Circuit Diagrams (回路図表記上の注意)

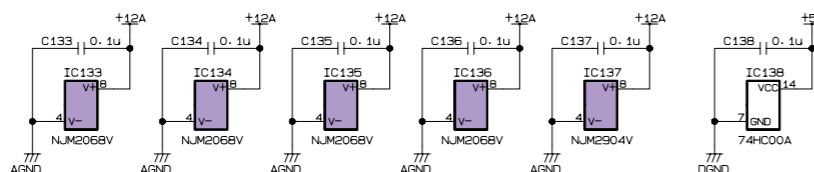
1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



The 3-digit number indicates the destination page.
(3桁の数字は信号の行先ページ数を示します。)

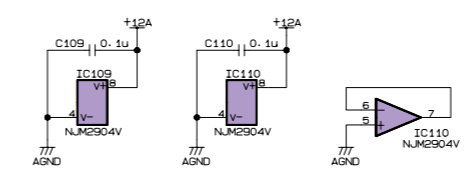
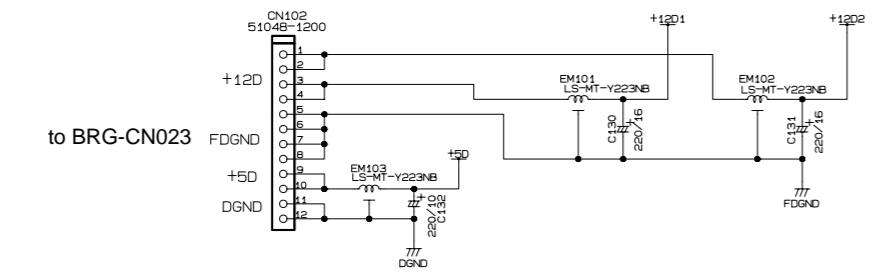
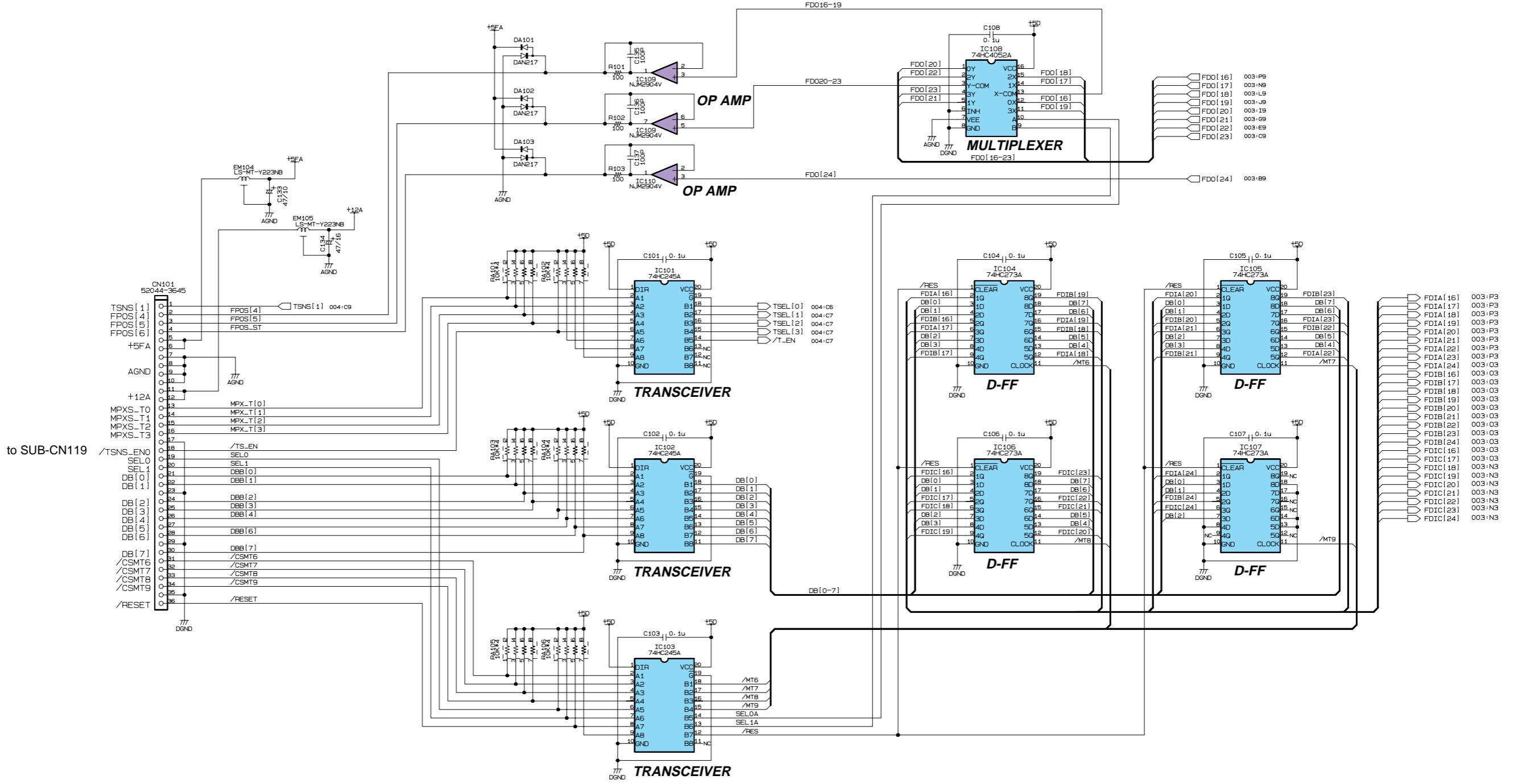
This indicates the location of the counter inter-sheet connector.
(The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。
(アルファベットが水平方向、数字が垂直方向)

XX: not installed (実装しない)



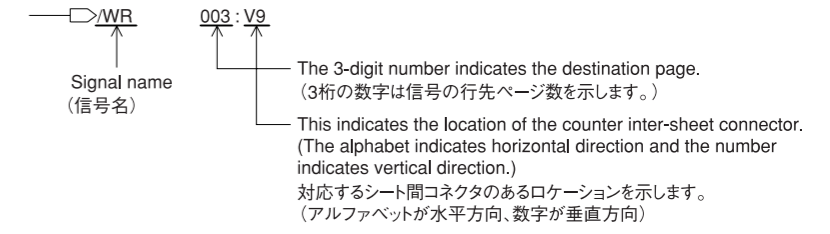
FD2 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

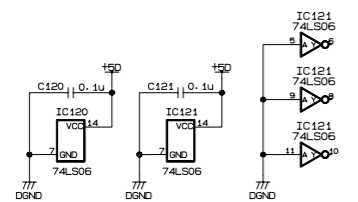
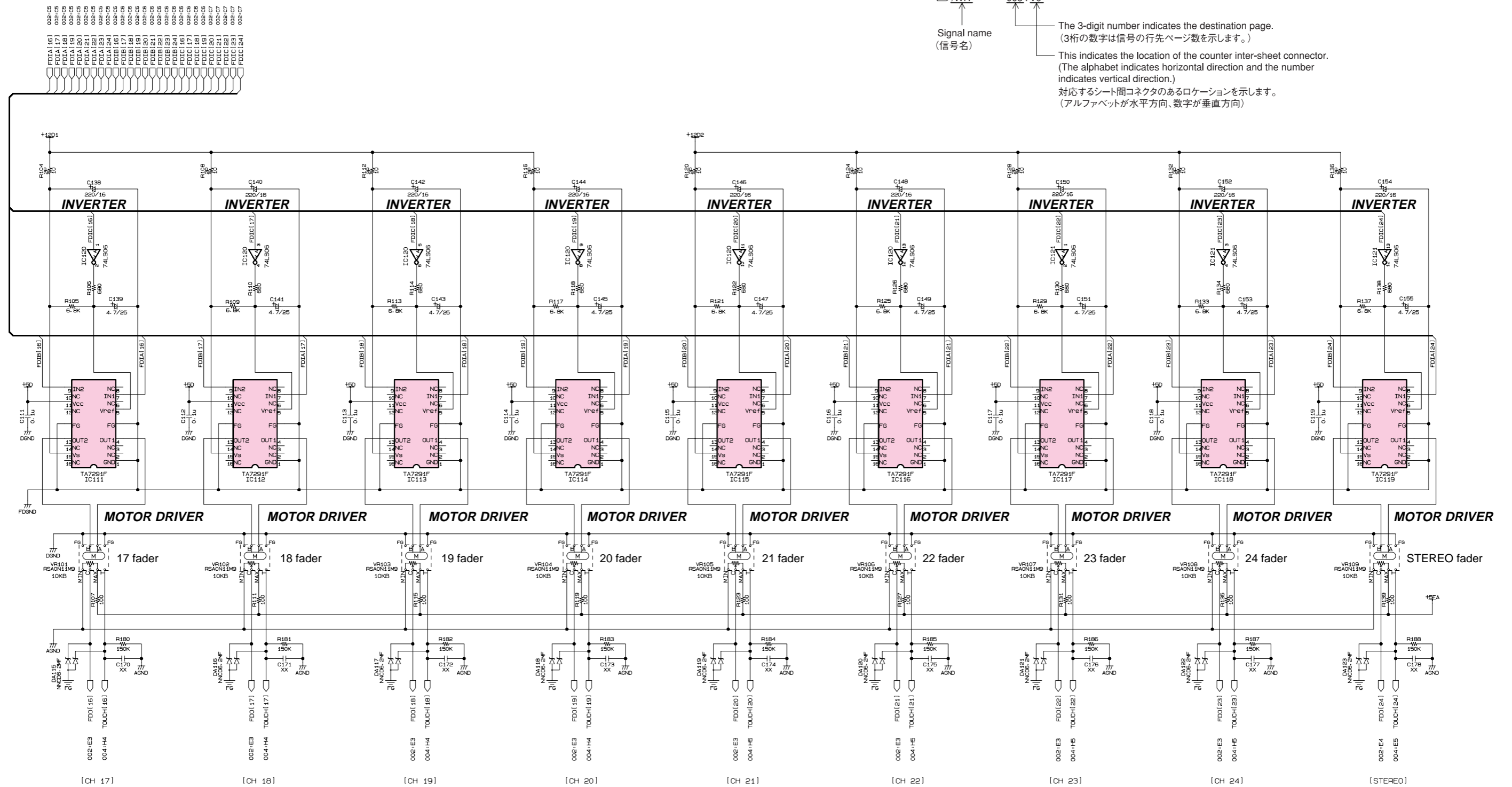
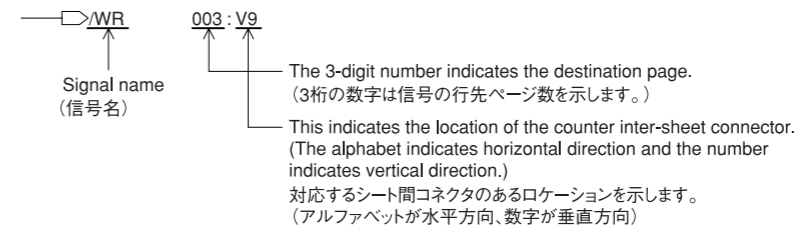
1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



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12

Notation for Circuit Diagrams (回路図表記上の注意)

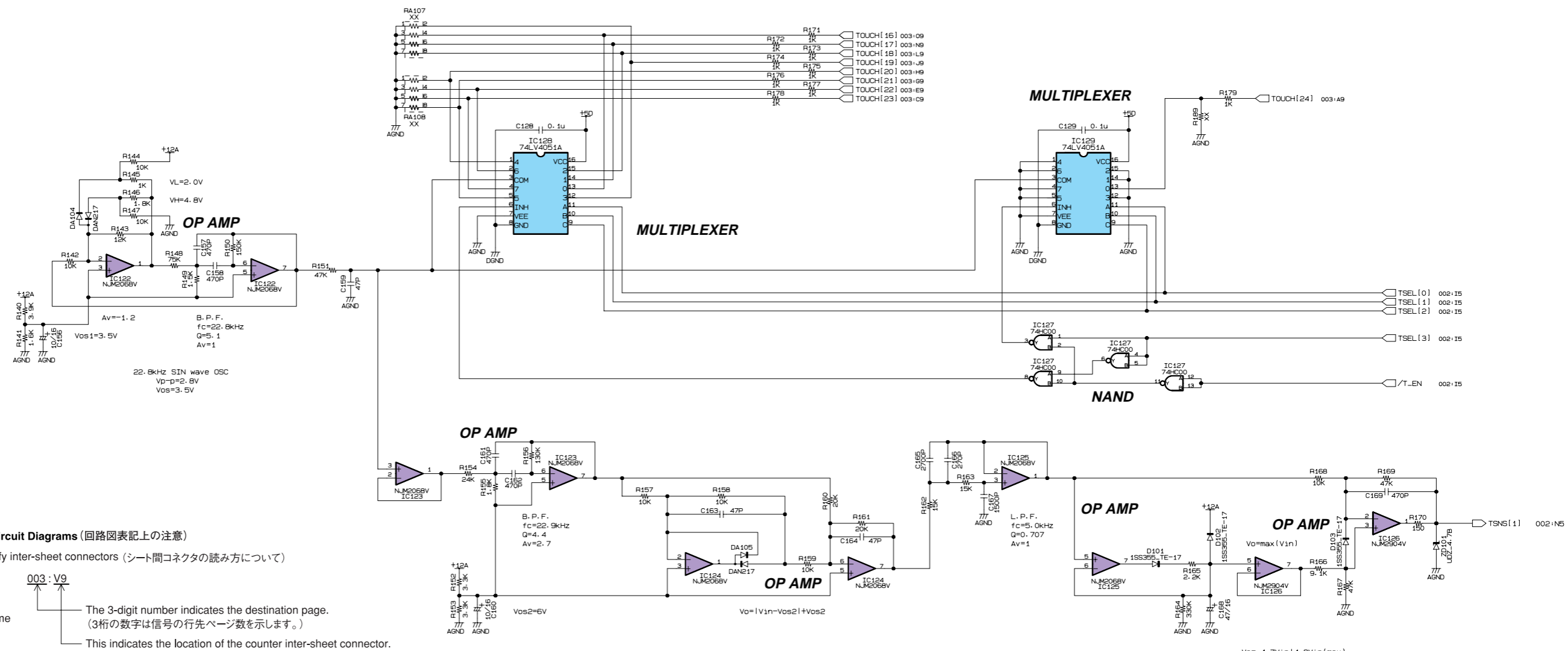
1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



XX : not installed (実装しない)
2P : 2W Metal Oxide Film Resistor (2W酸化金属被膜抵抗)

FD2 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

DM2000



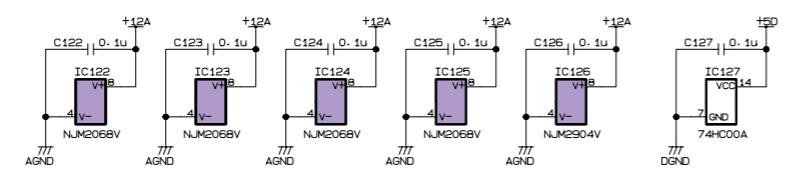
Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

—▷/WR
↑
Signal name (信号名)

003 : V9
↑
The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

↑
This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

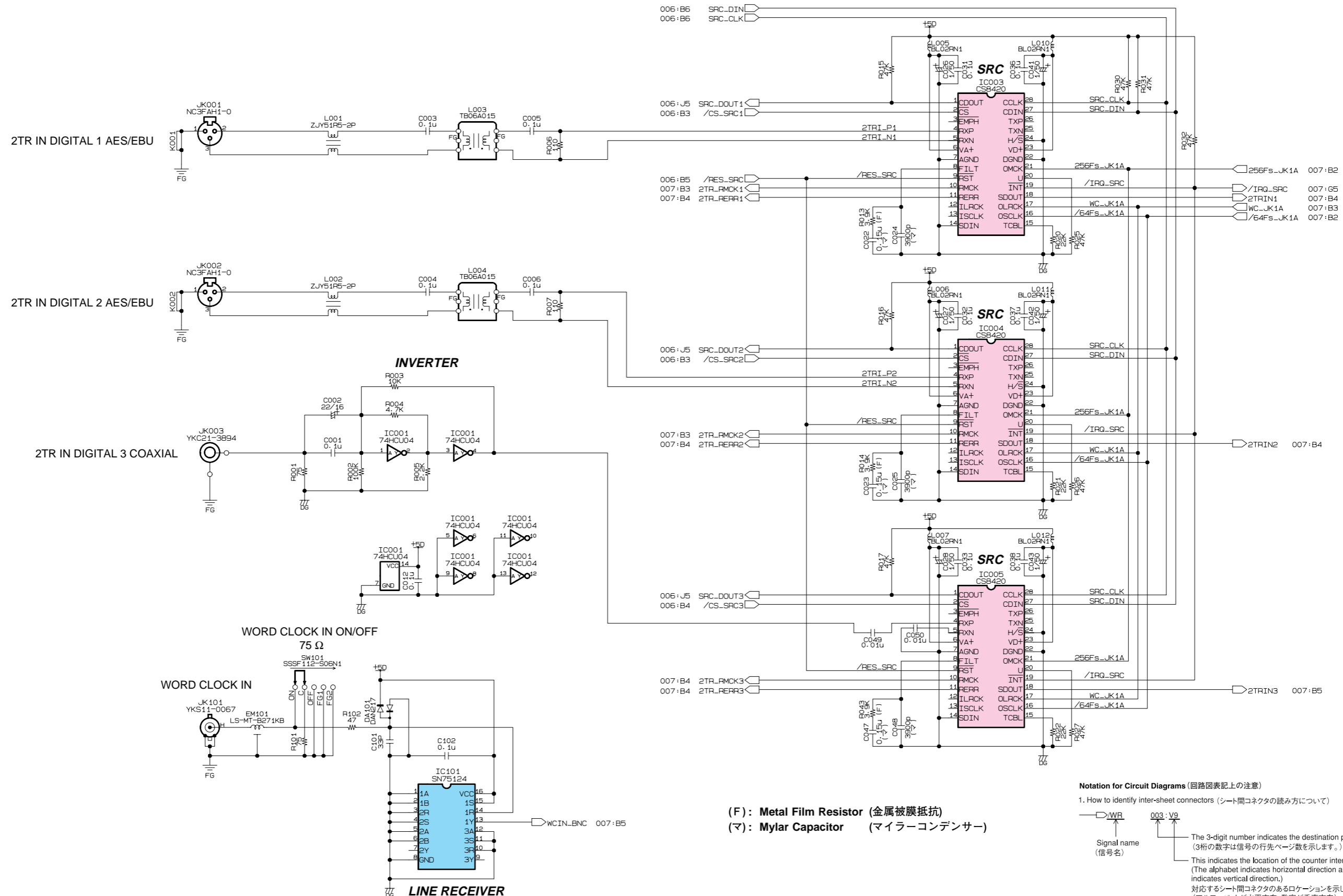


XX : not installed (実装しない)

2
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11
12

JK1 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

DM2000



(F): Metal Film Resistor (金属被膜抵抗)
 (マ): Mylar Capacitor (マイラーコンデンサー)

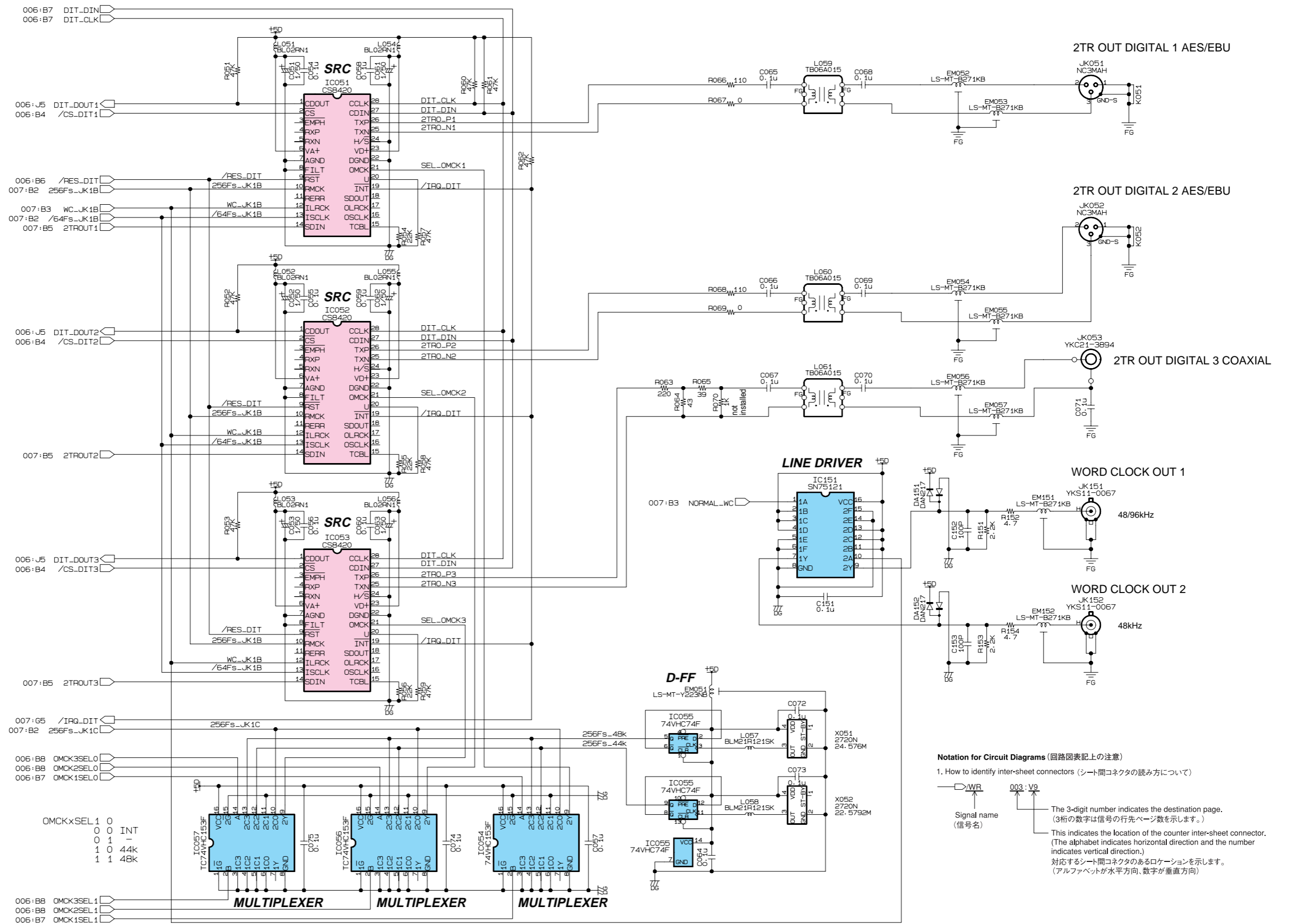
Notation for Circuit Diagrams (回路図表記上の注意)
 1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

—▷WR 003:V9
 ↑
 Signal name (信号名)

The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)
 This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

JK1 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

Signal name (信号名) 003: V9

The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

M L K J I H G F E D C B A

JK1 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

DM2000

Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

The 3-digit number indicates the destination page.
(3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector.
(The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。
(アルファベットが水平方向、数字が垂直方向)

R203 (CNVSS)	—
R216 (CE)	—
R211 (A14)	○
R212 (A15)	○

○ : installed
— : not installed

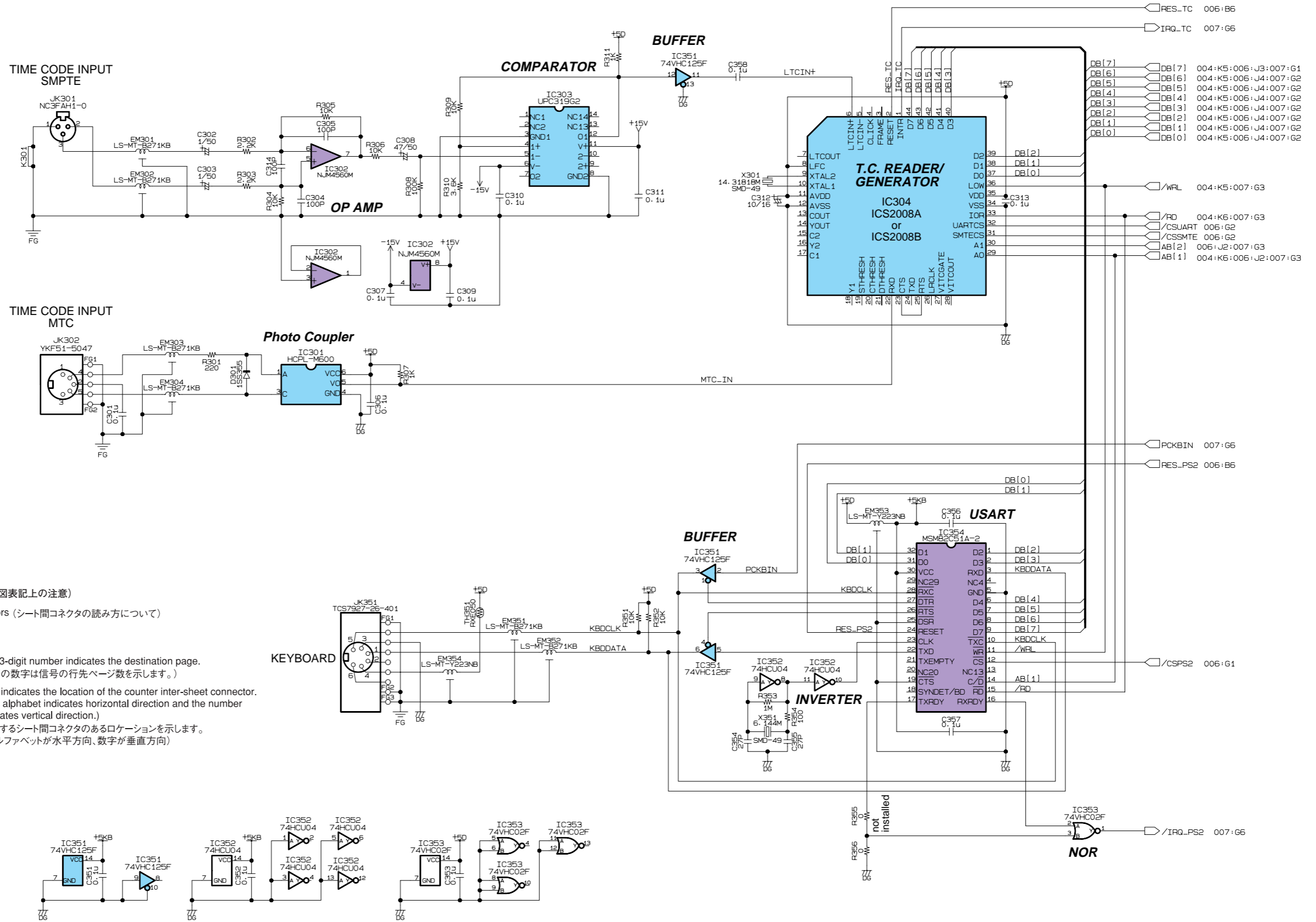
38CC1-8822222-4

JK1 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

54

JK1 OVERALL CIRCUIT DIAGRAM 005 (DM2000)

DM2000



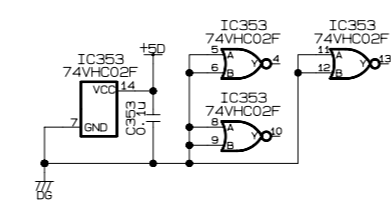
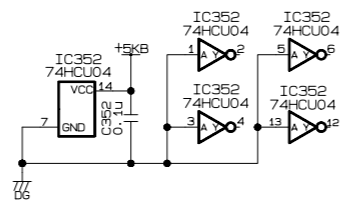
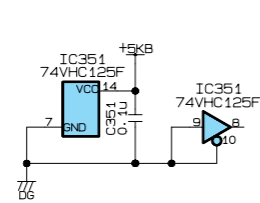
Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



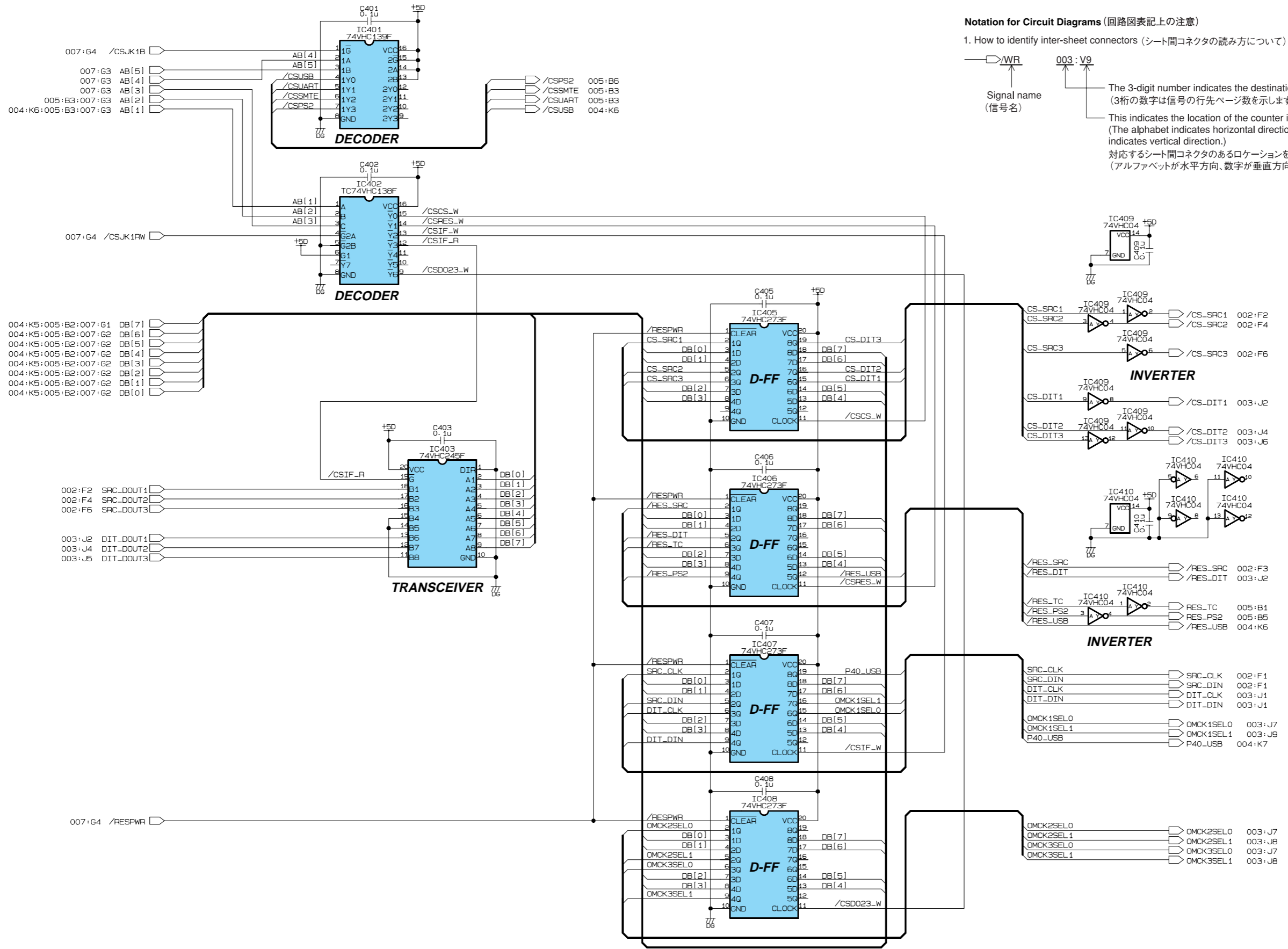
The 3-digit number indicates the destination page. (3桁の数字は信号の先行ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)



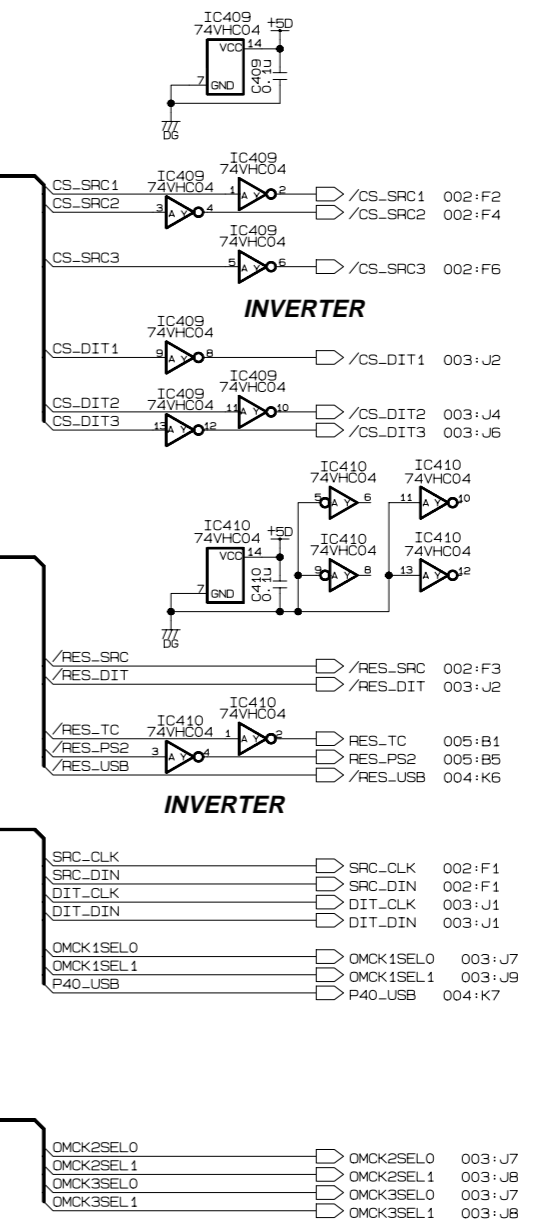
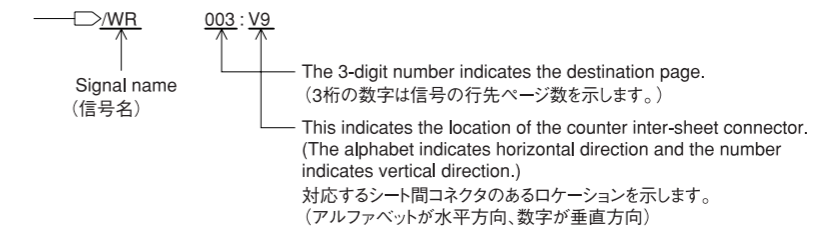
JK1 OVERALL CIRCUIT DIAGRAM 006 (DM2000)

DM2000



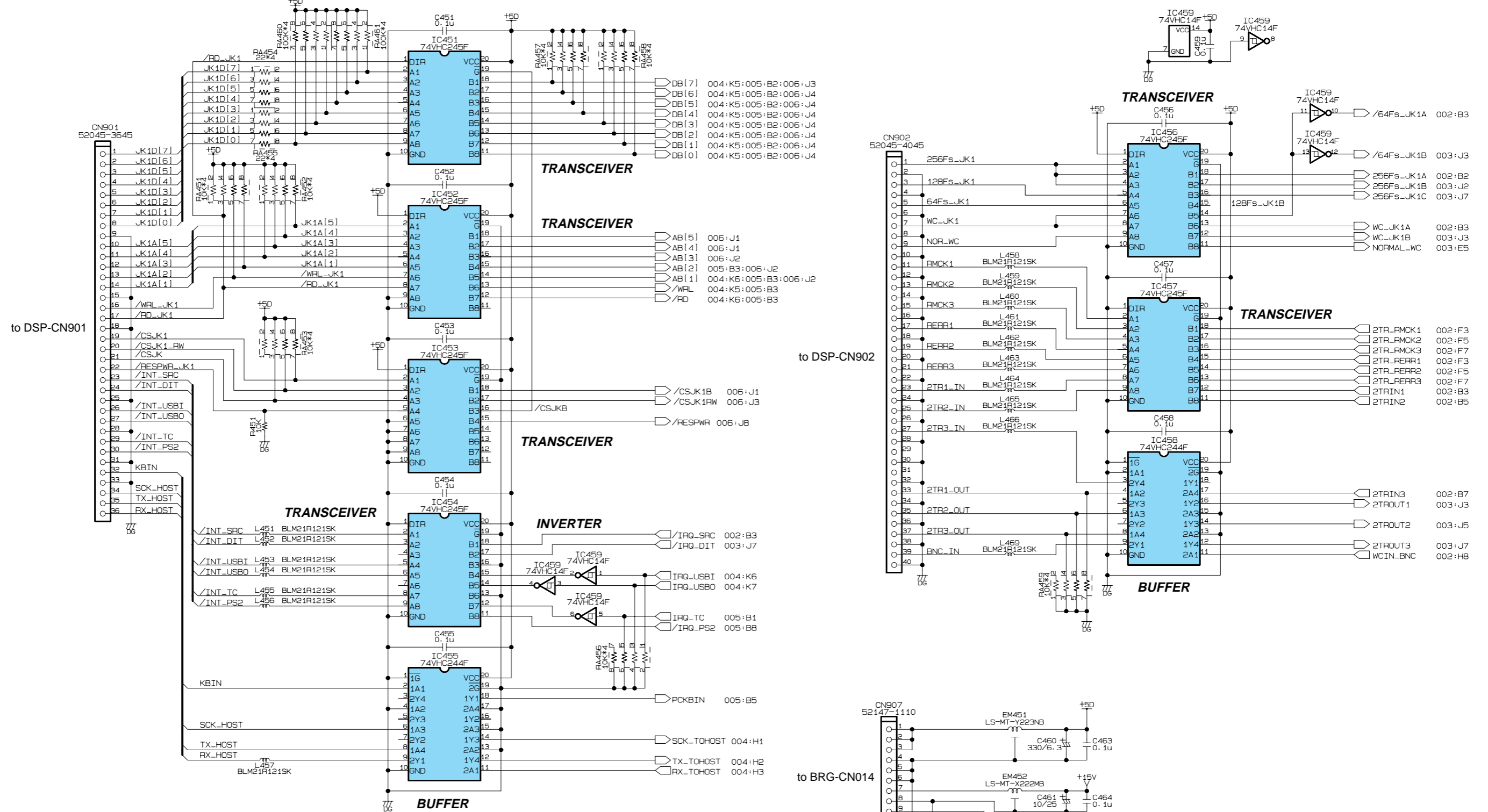
Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



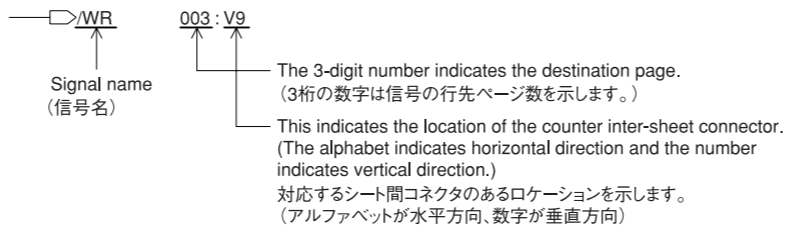
JK1 OVERALL CIRCUIT DIAGRAM 007 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

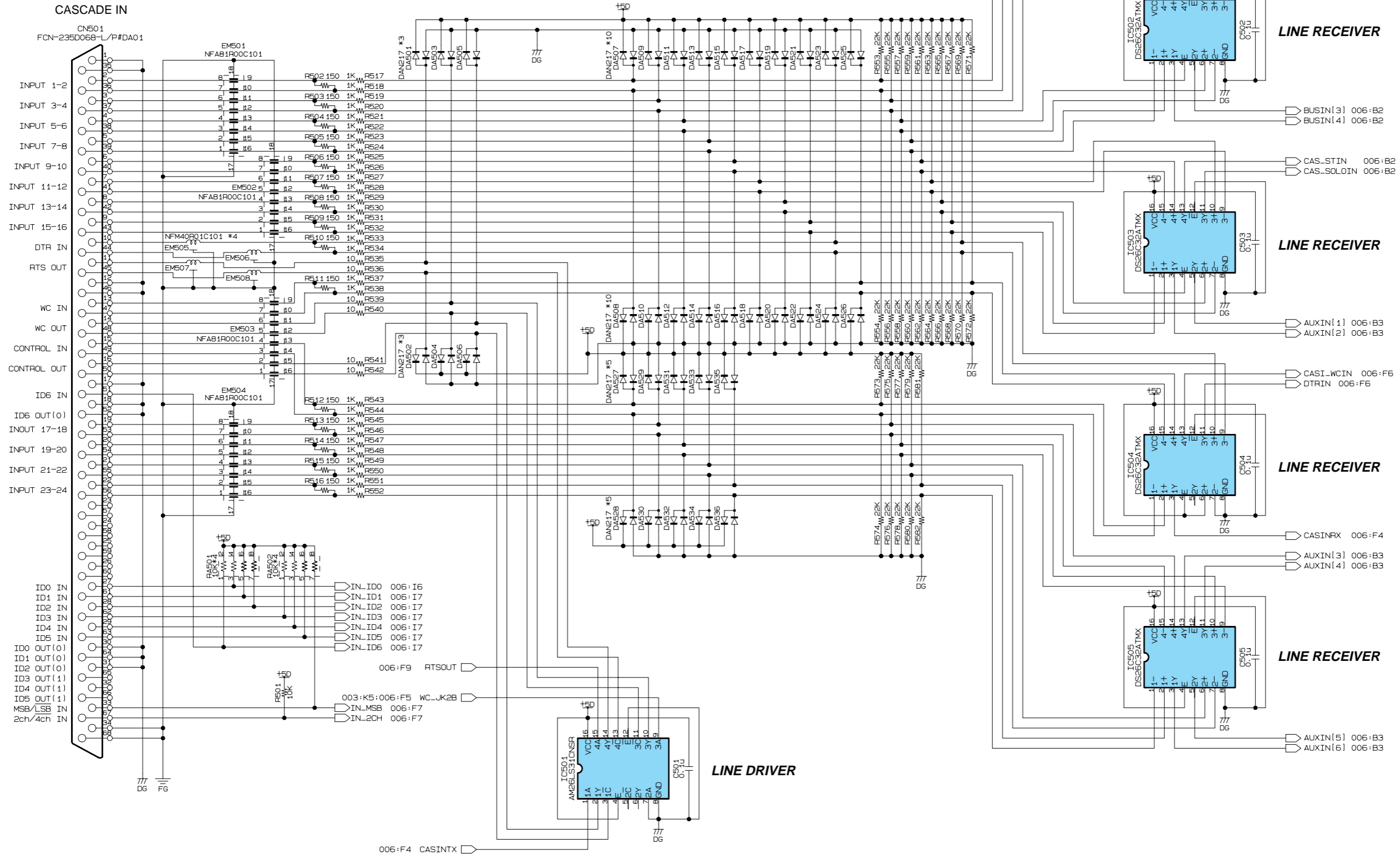
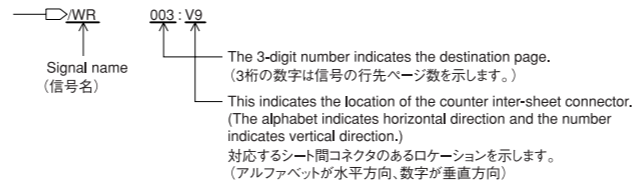


JK2 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

DM2000

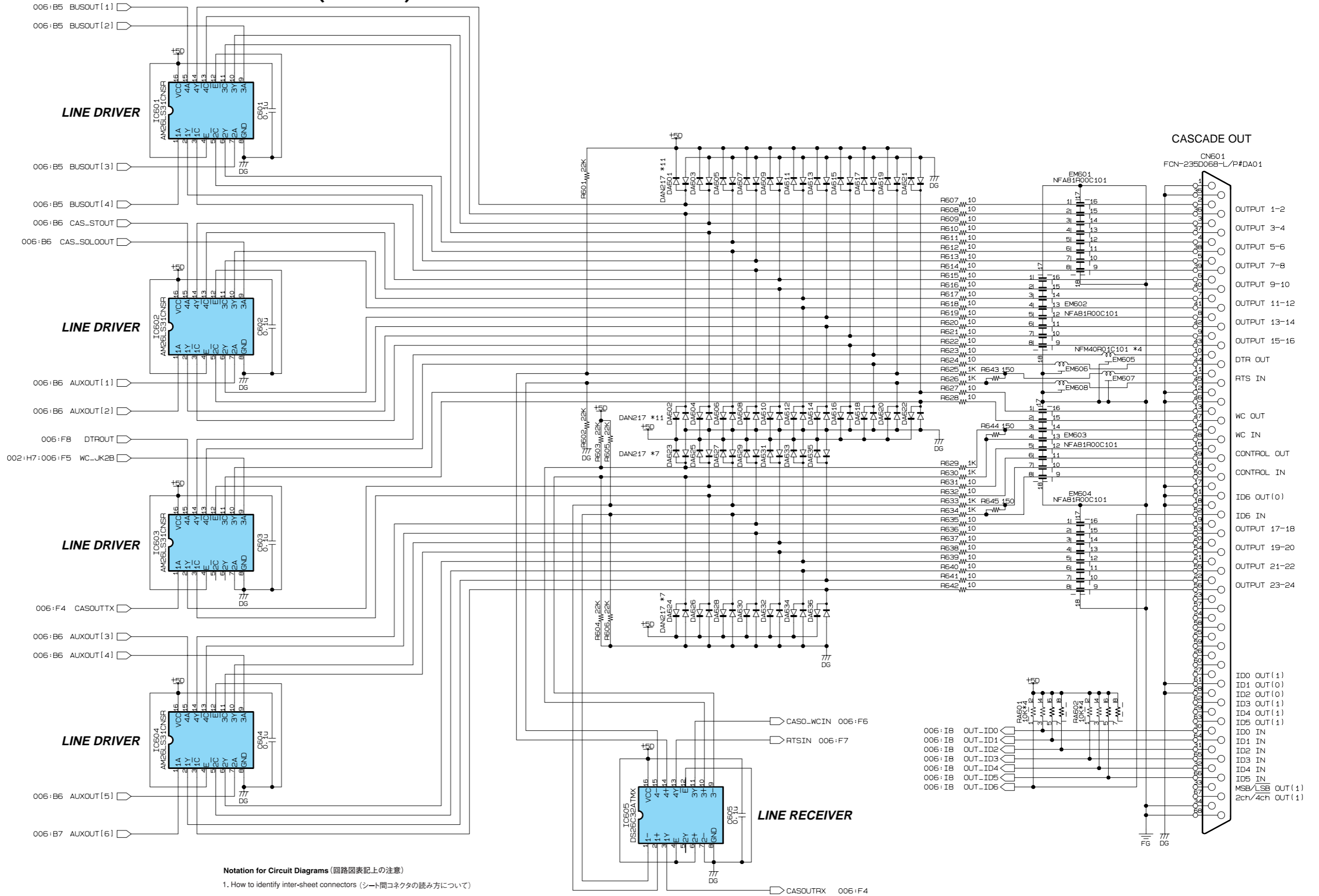
Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



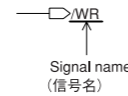
JK2 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)

対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

JK2 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

DM2000

1

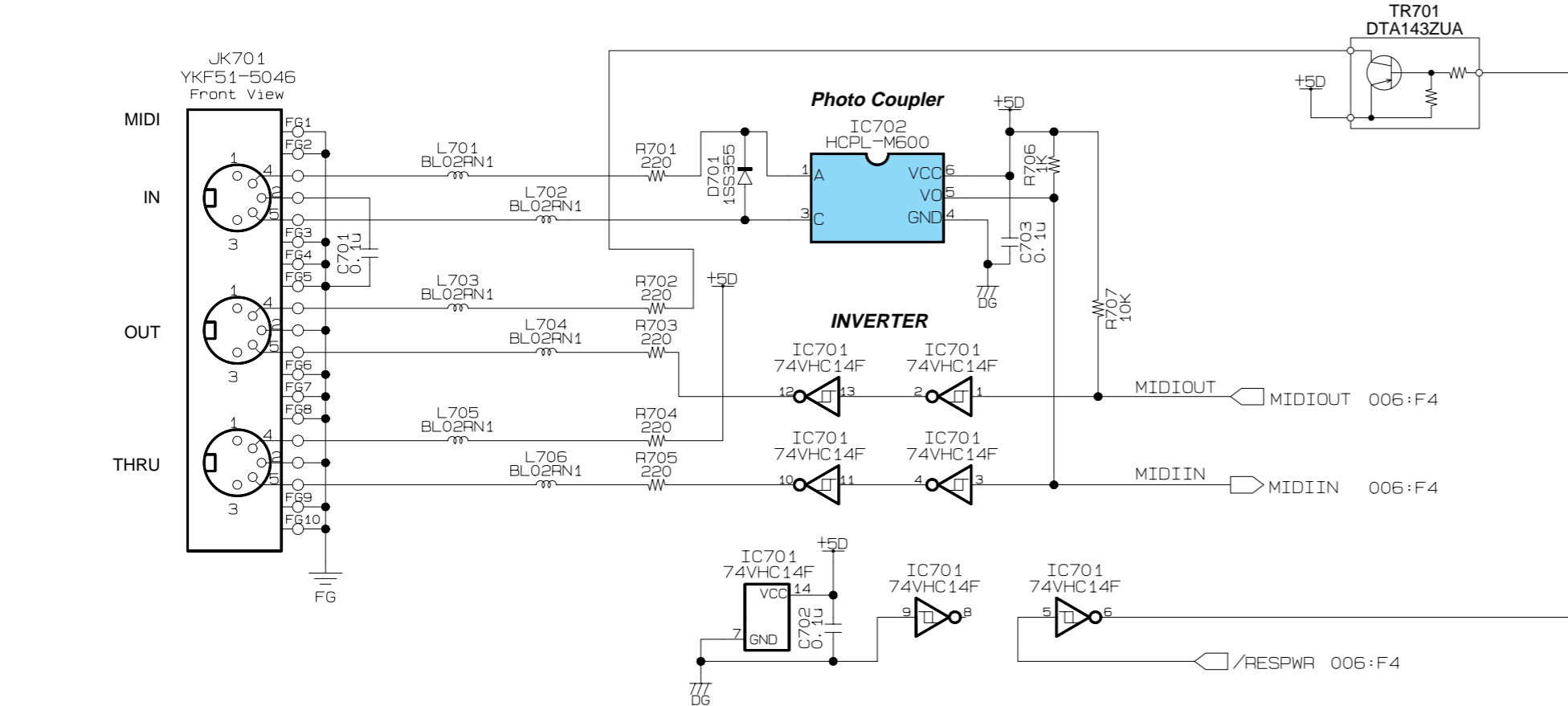
2

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6



Notation for Circuit Diagrams (回路図表記上の注意)

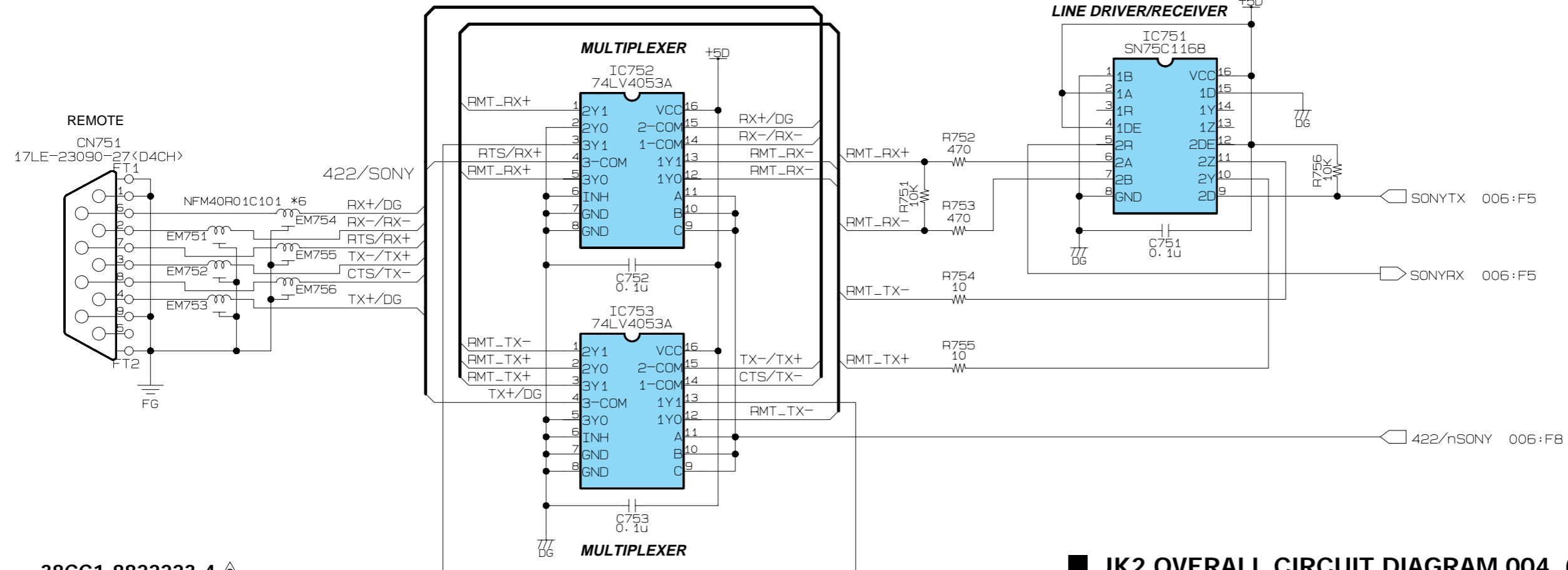
1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

— WR — 003 : V9

Signal name (信号名)

The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

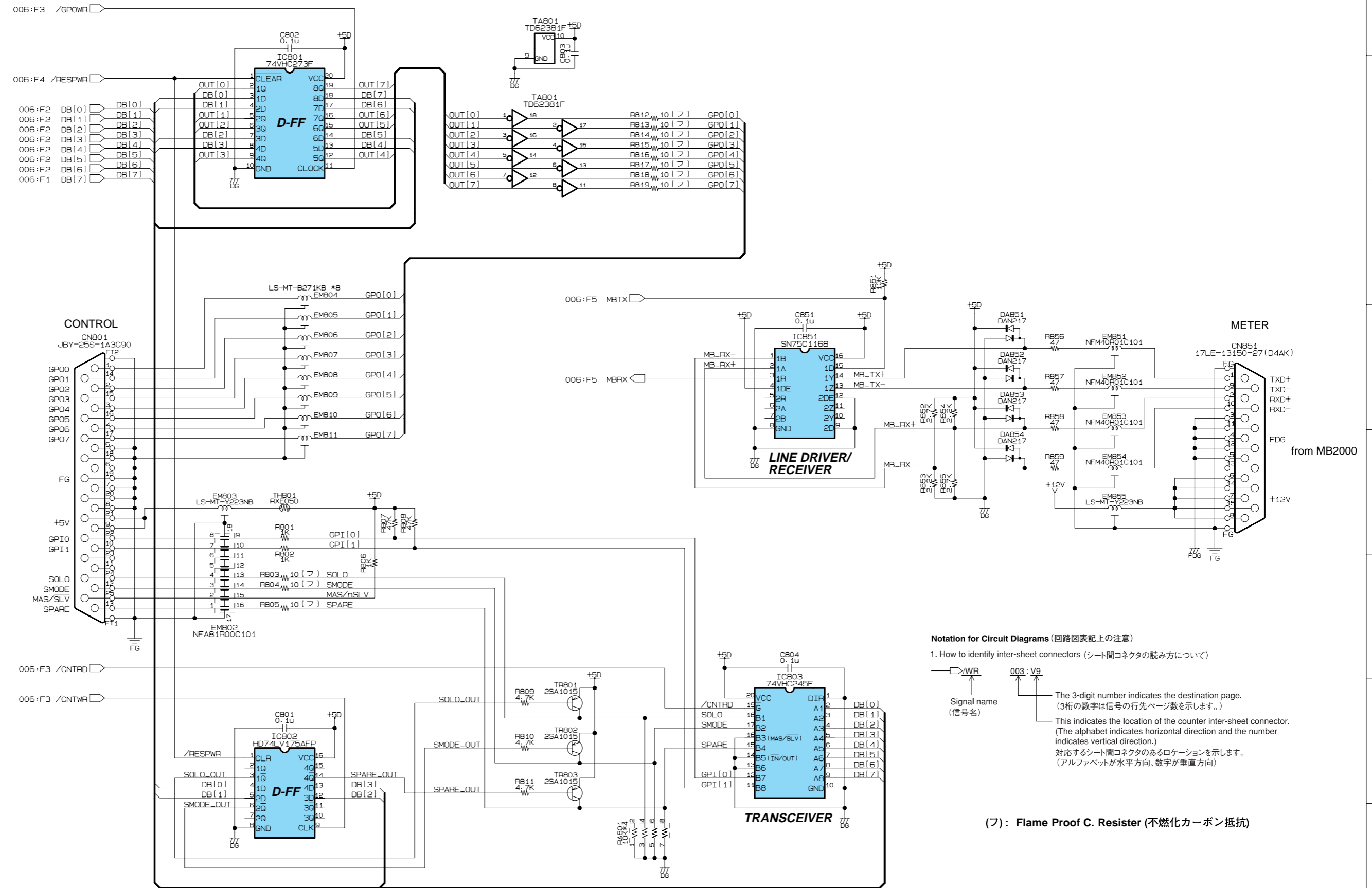
This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)



JK2 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

JK2 OVERALL CIRCUIT DIAGRAM 005 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

— /WR
Signal name (信号名)

003 : V9

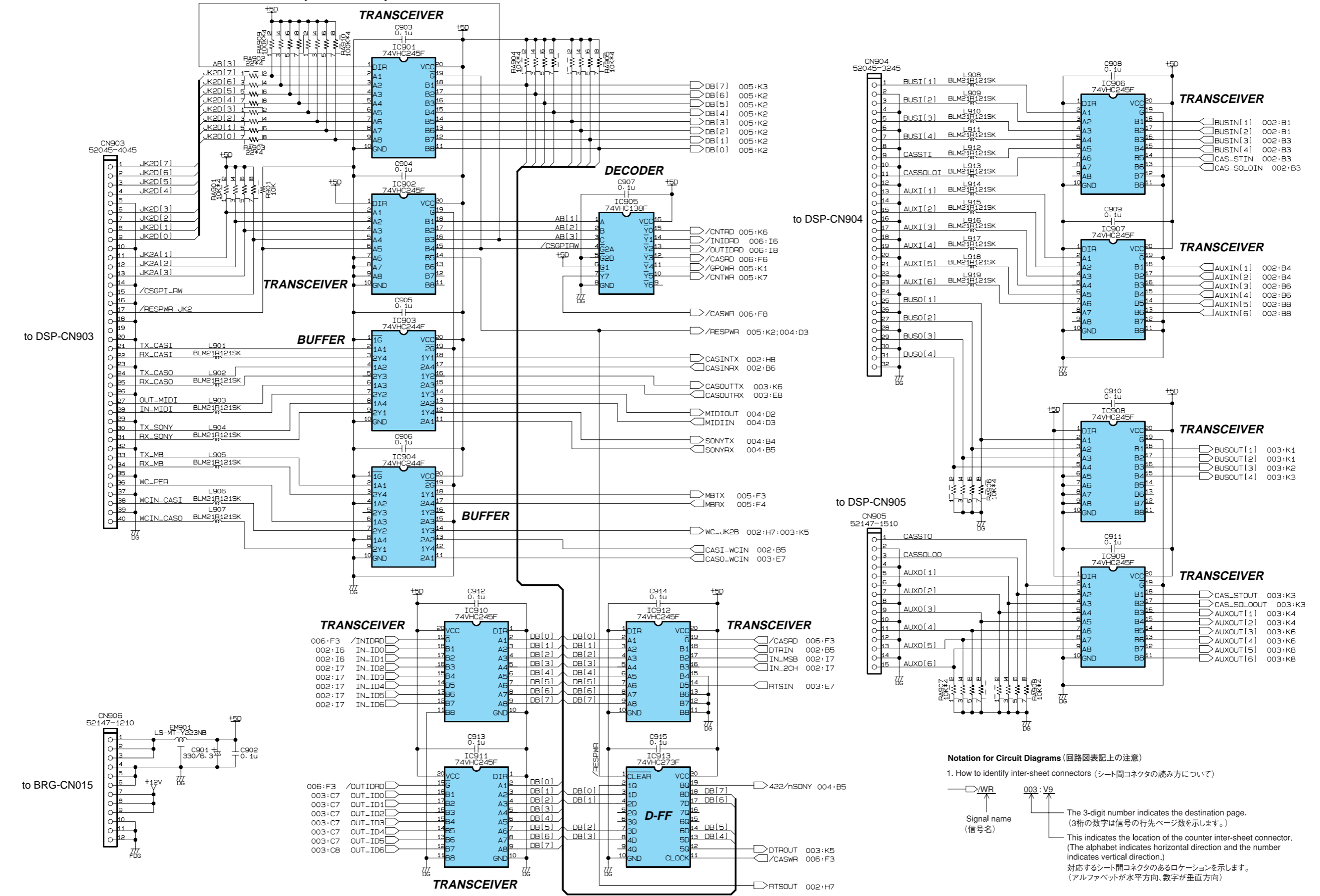
The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

(フ) : Flame Proof C. Resistor (不燃化カーボン抵抗)

JK2 OVERALL CIRCUIT DIAGRAM 006 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

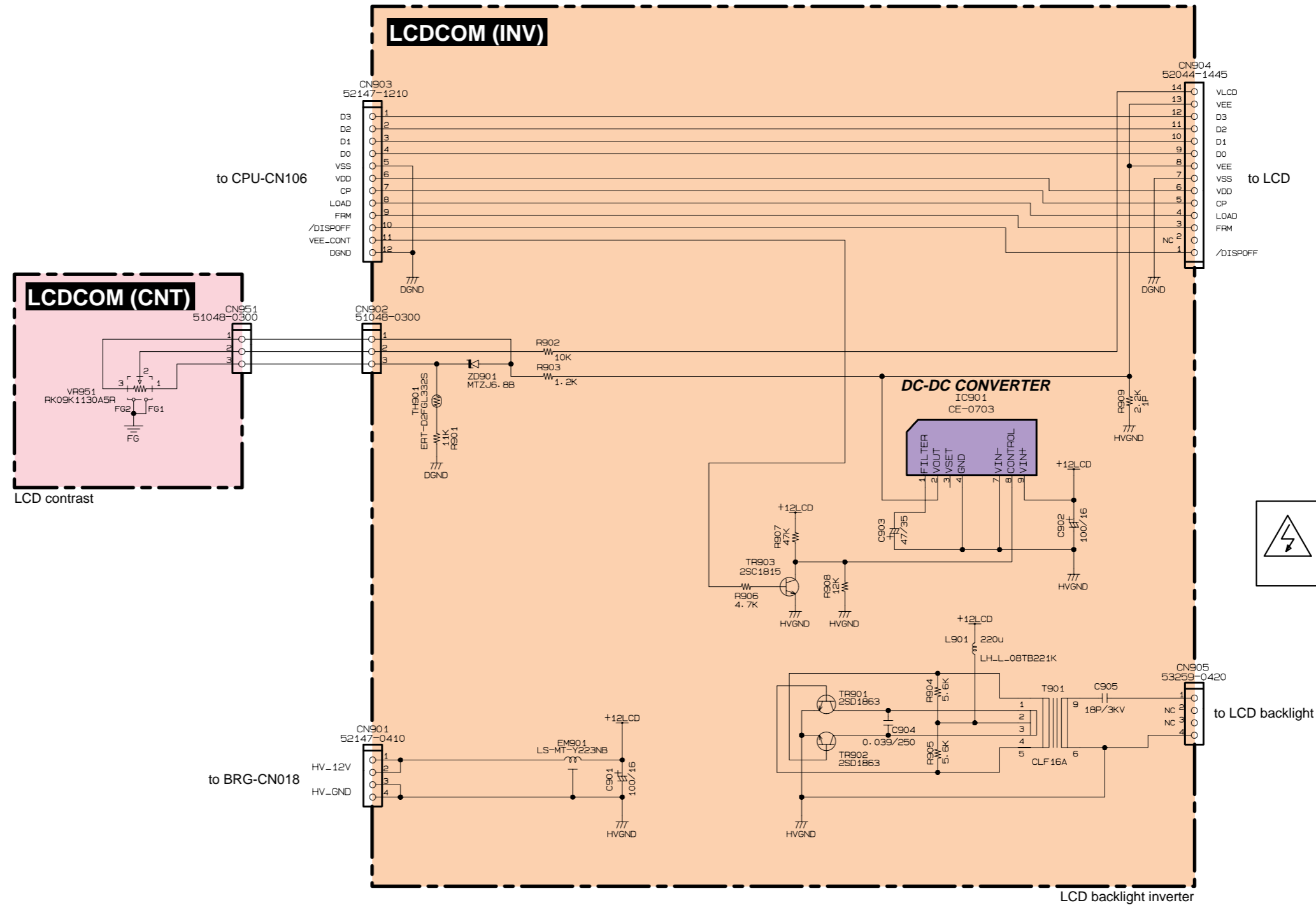
Signal name (信号名) 003:V9

The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

■ LCDCOM OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000

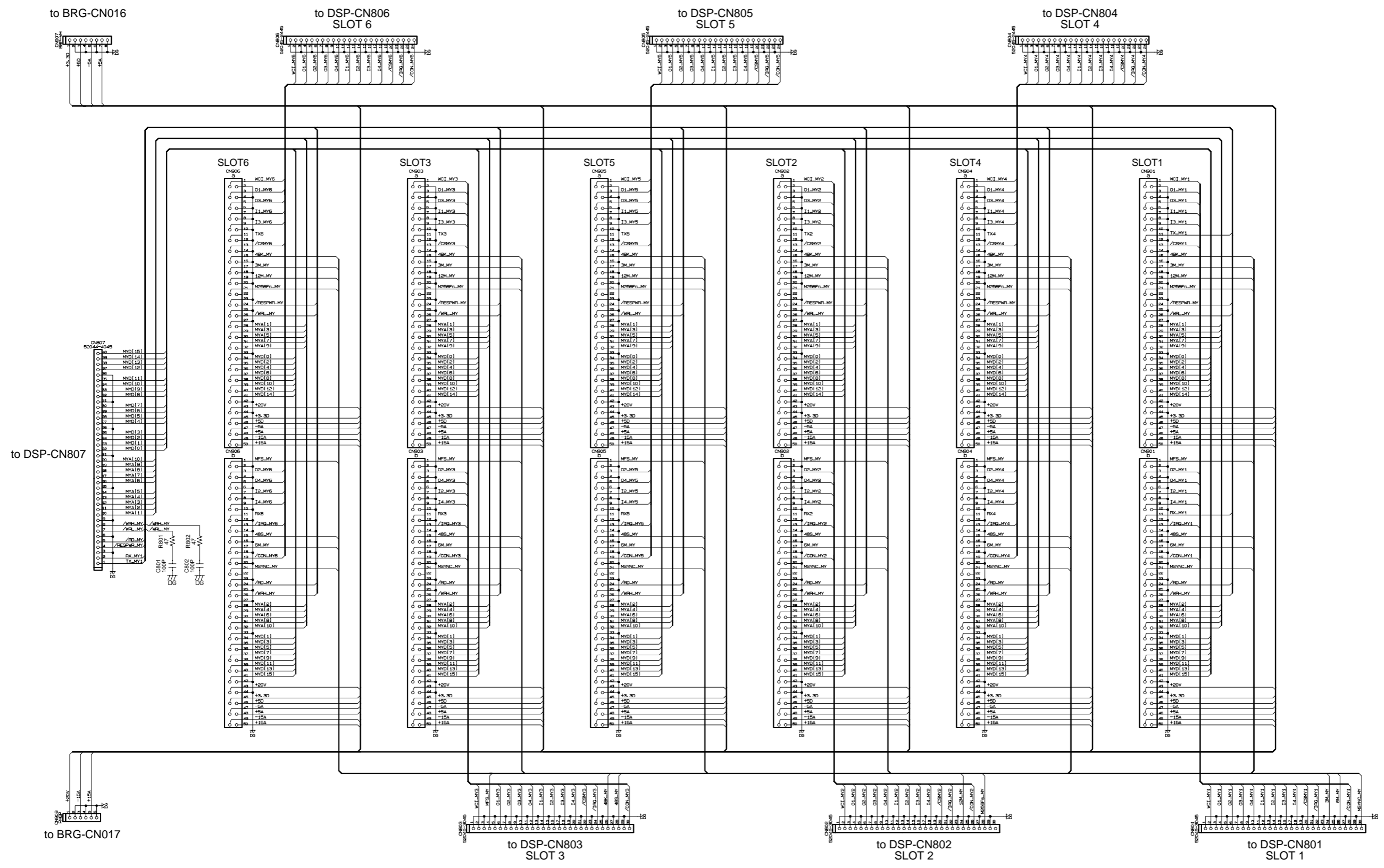


高压注意
CAUTION
HIGH VOLTAGE

1P: 1W Metal Oxide Film Resistor (1W酸化金属被膜抵抗)

OPT OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000

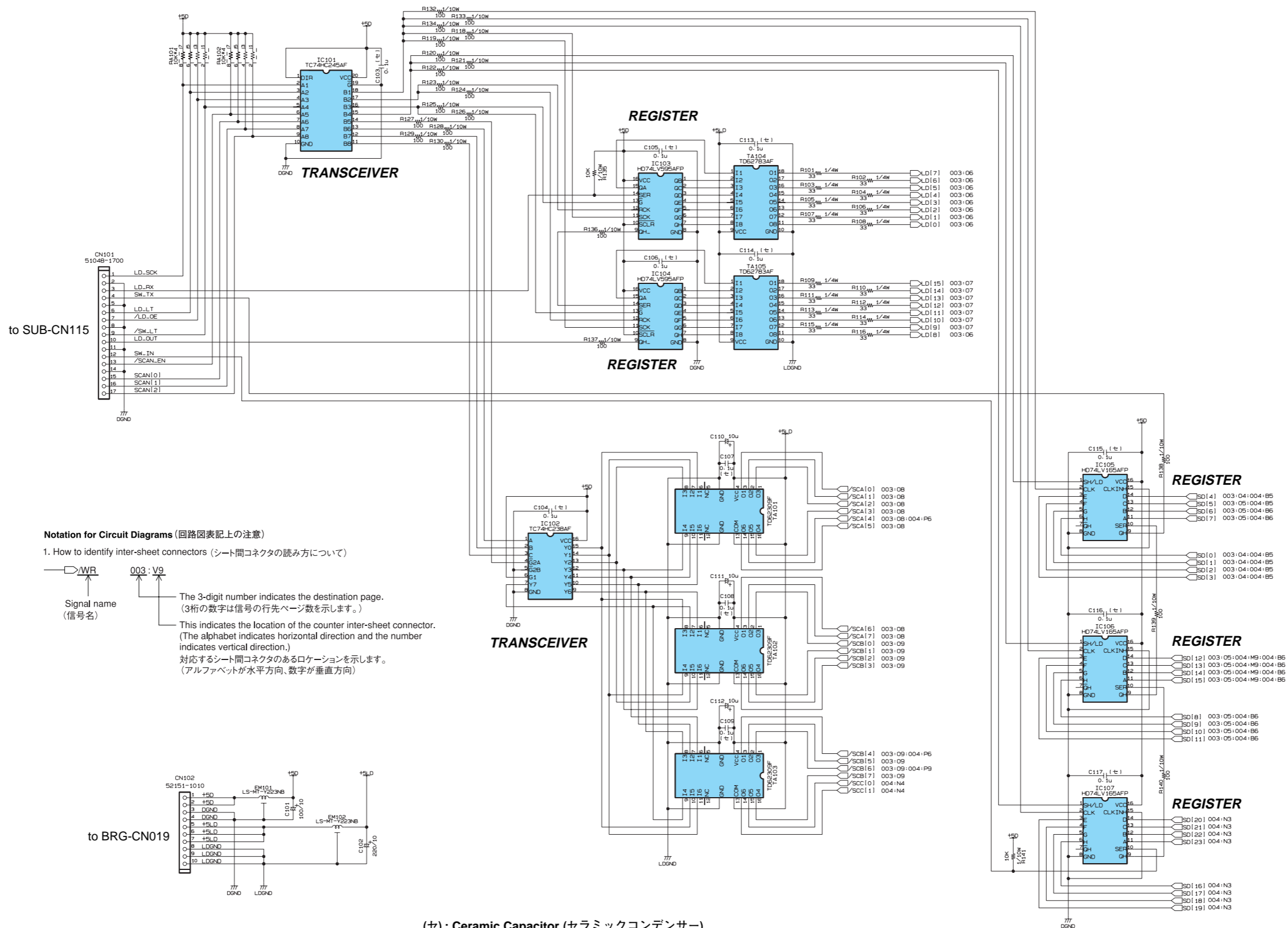


OPT OVERALL CIRCUIT DIAGRAM (DM2000)

38CC1-882221-1

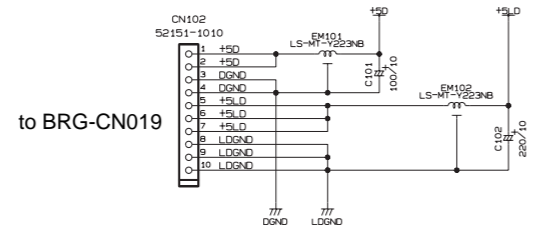
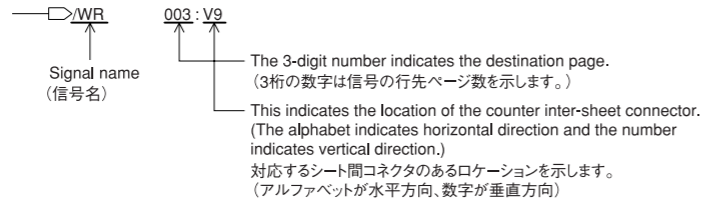
PN1 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

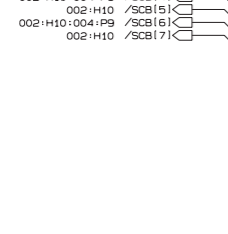
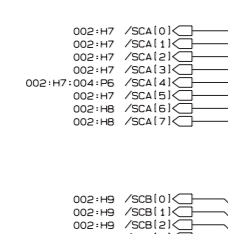
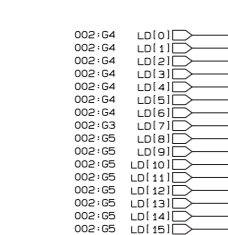
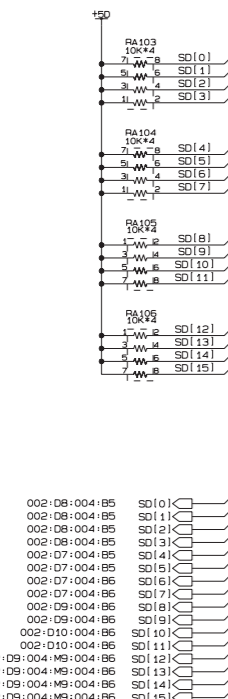
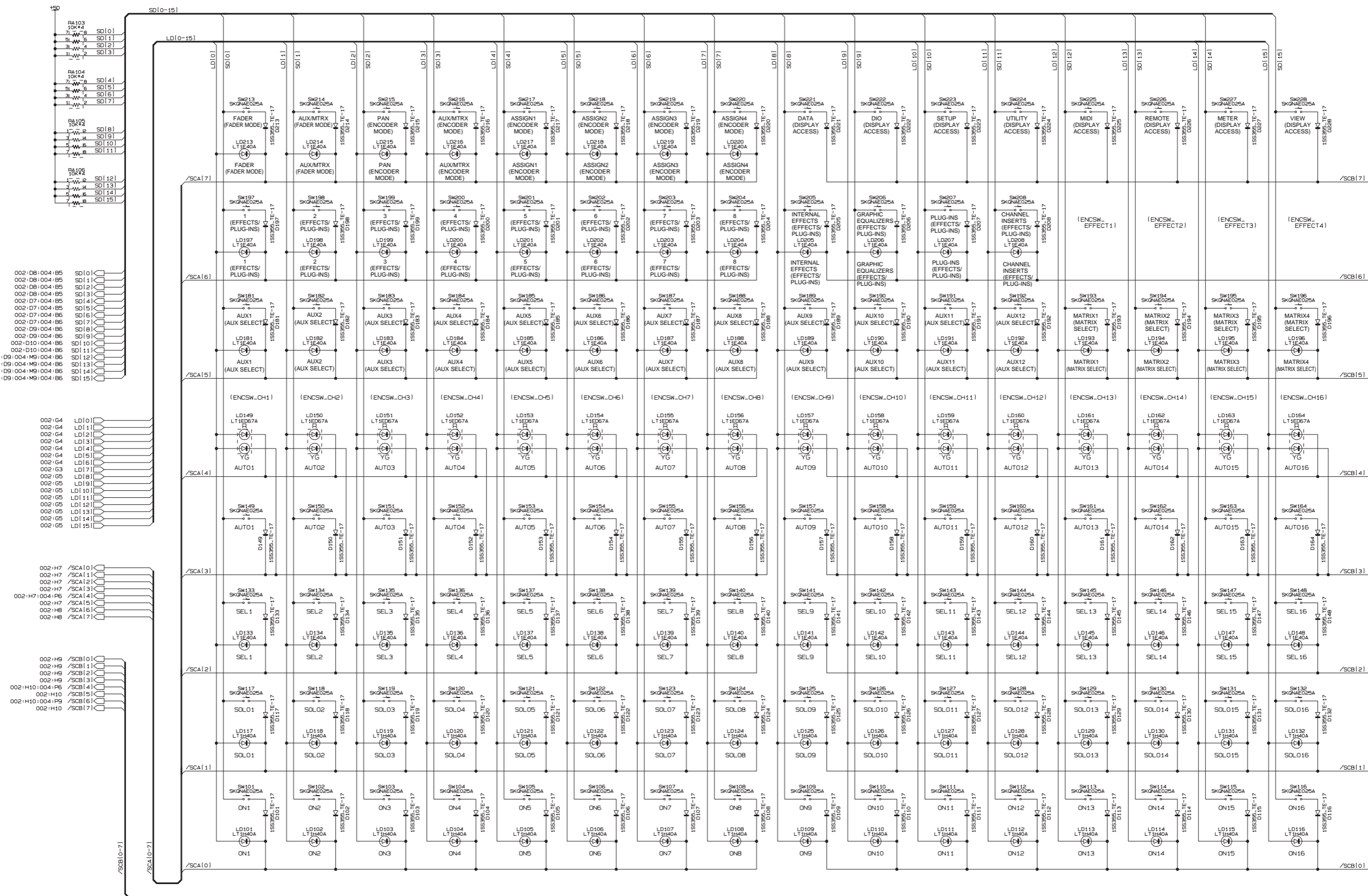
1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



(セ) : Ceramic Capacitor (セラミックコンデンサー)

PN1 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

Signal name (信号名)

003-V9

The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)

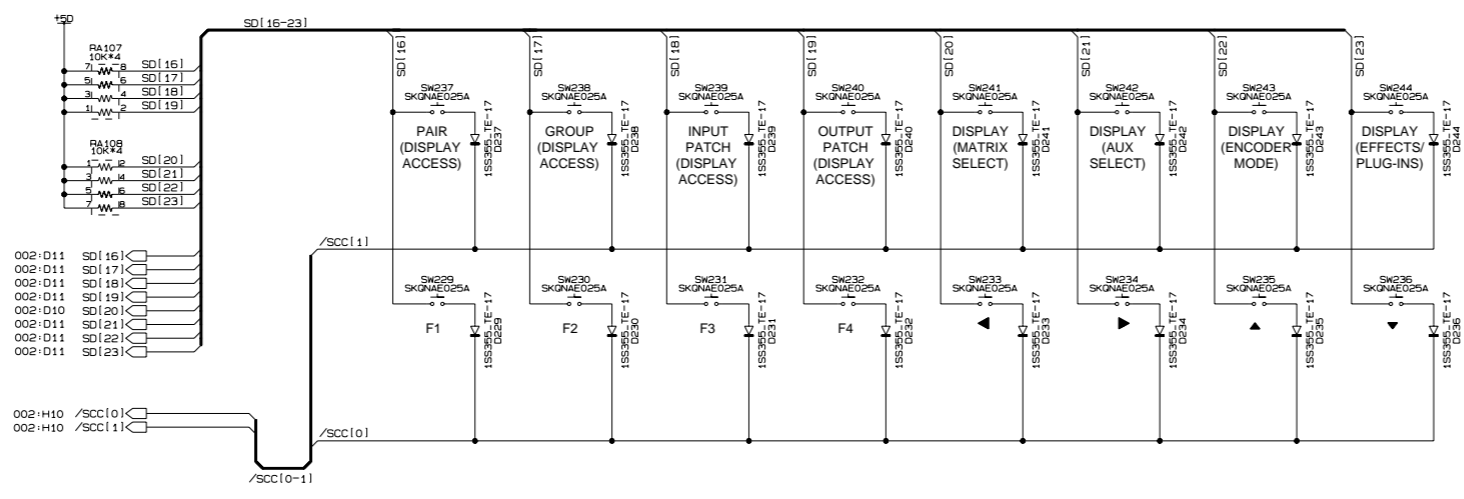
対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

LT1H40A : Yellow
 LT1E40A : Yellow Green
 LT1D40A : Red
 LT1ED67A : Red/Yellow Green

ENCSW_ = Encoder Switch
 FX/PLUGIN = EFFECTS/PLUG-INS
 F_MODE_ = FADER MODE
 E_MODE_ = ENCODER MODE

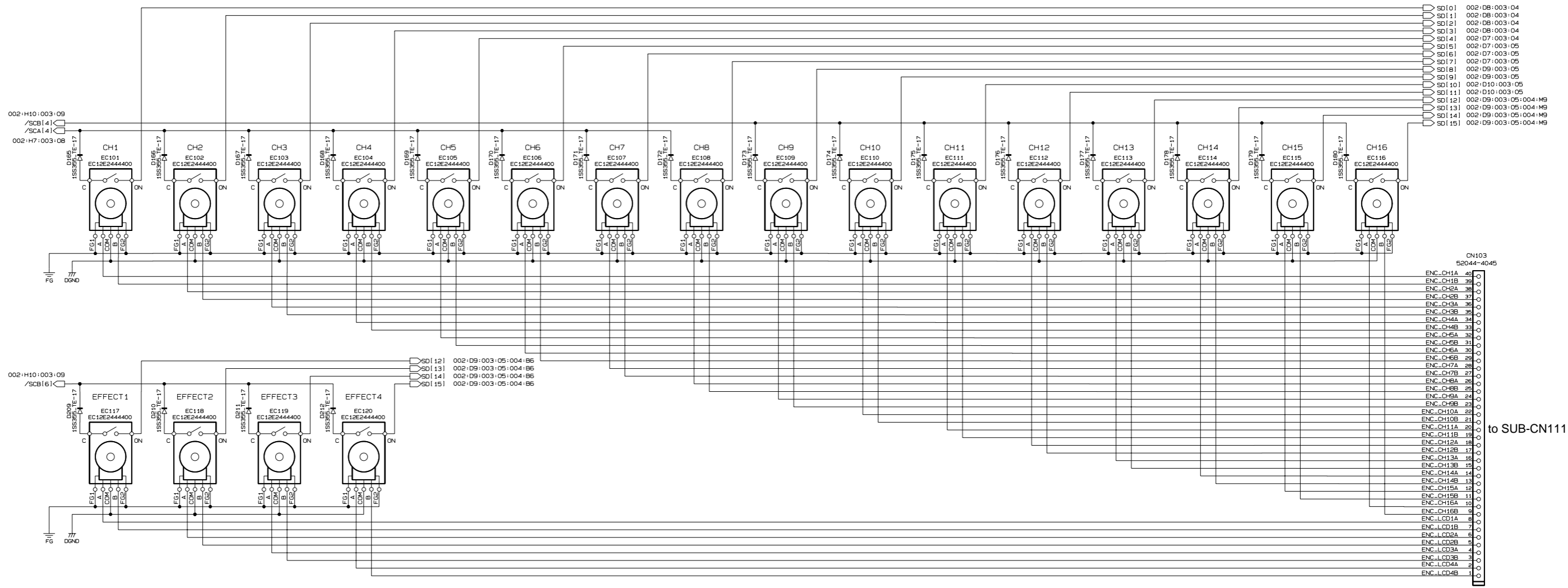
PN1 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

PN1 OVERALL CIRCUIT DIAGRAM 004 (DM2000)



Notation for Circuit Diagrams (回路図表記上の注意)

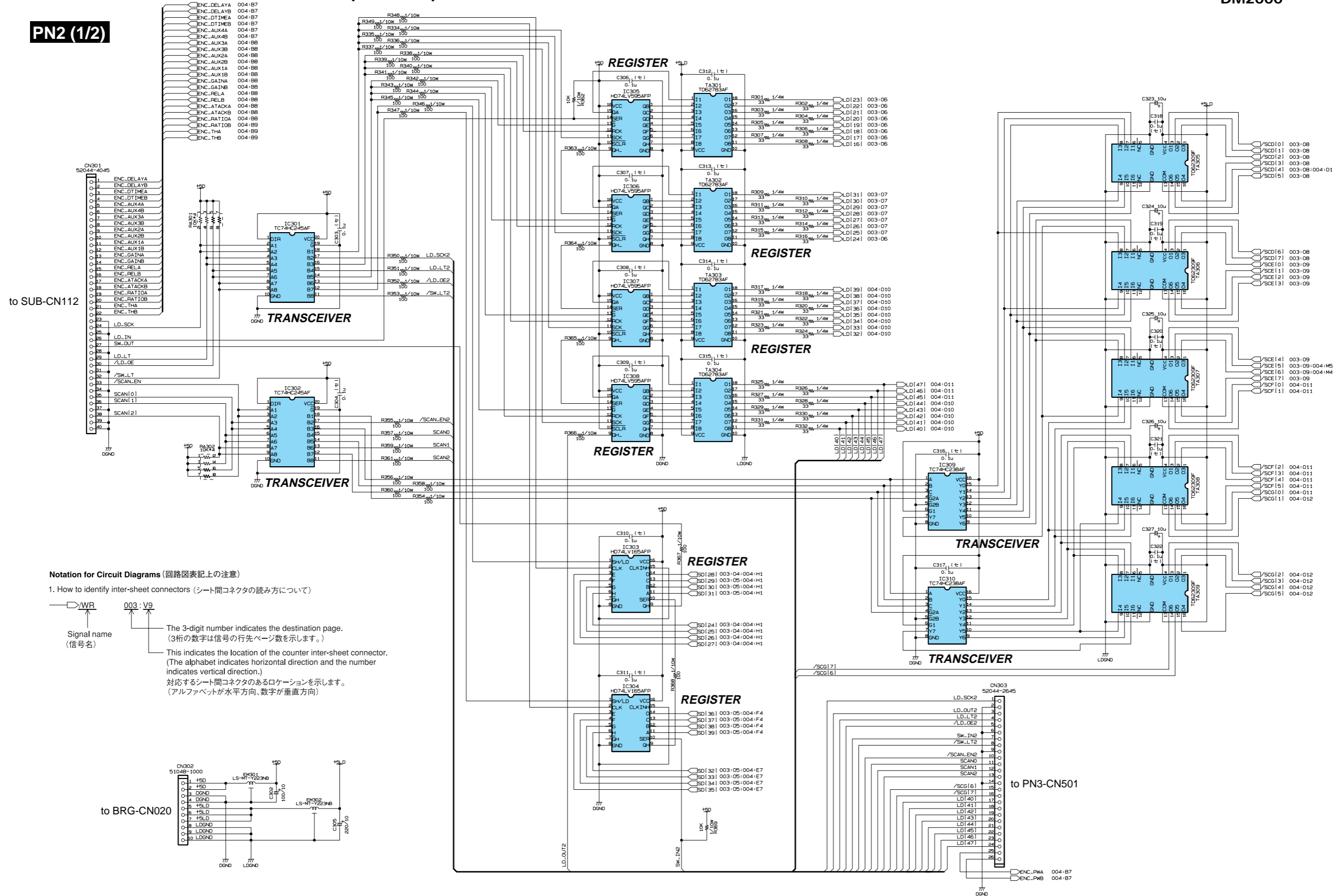
- How to identify inter-sheet connectors (シート間コネクタの読み方について)
 - Diagram showing a connector symbol with label **WR** and signal name **Signal name (信号名)**.
 - Diagram showing a connector symbol with label **003 : V9**.
 - The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)
 - This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)



PN2 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

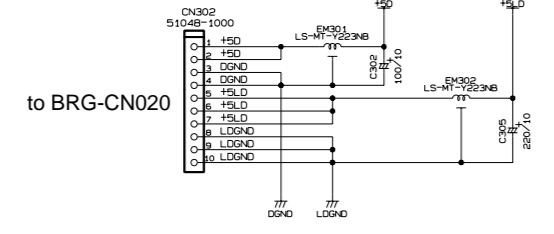
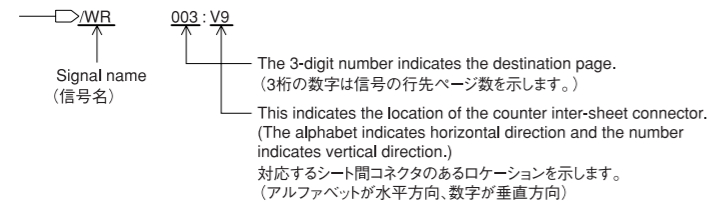
DM2000

PN2 (1/2)



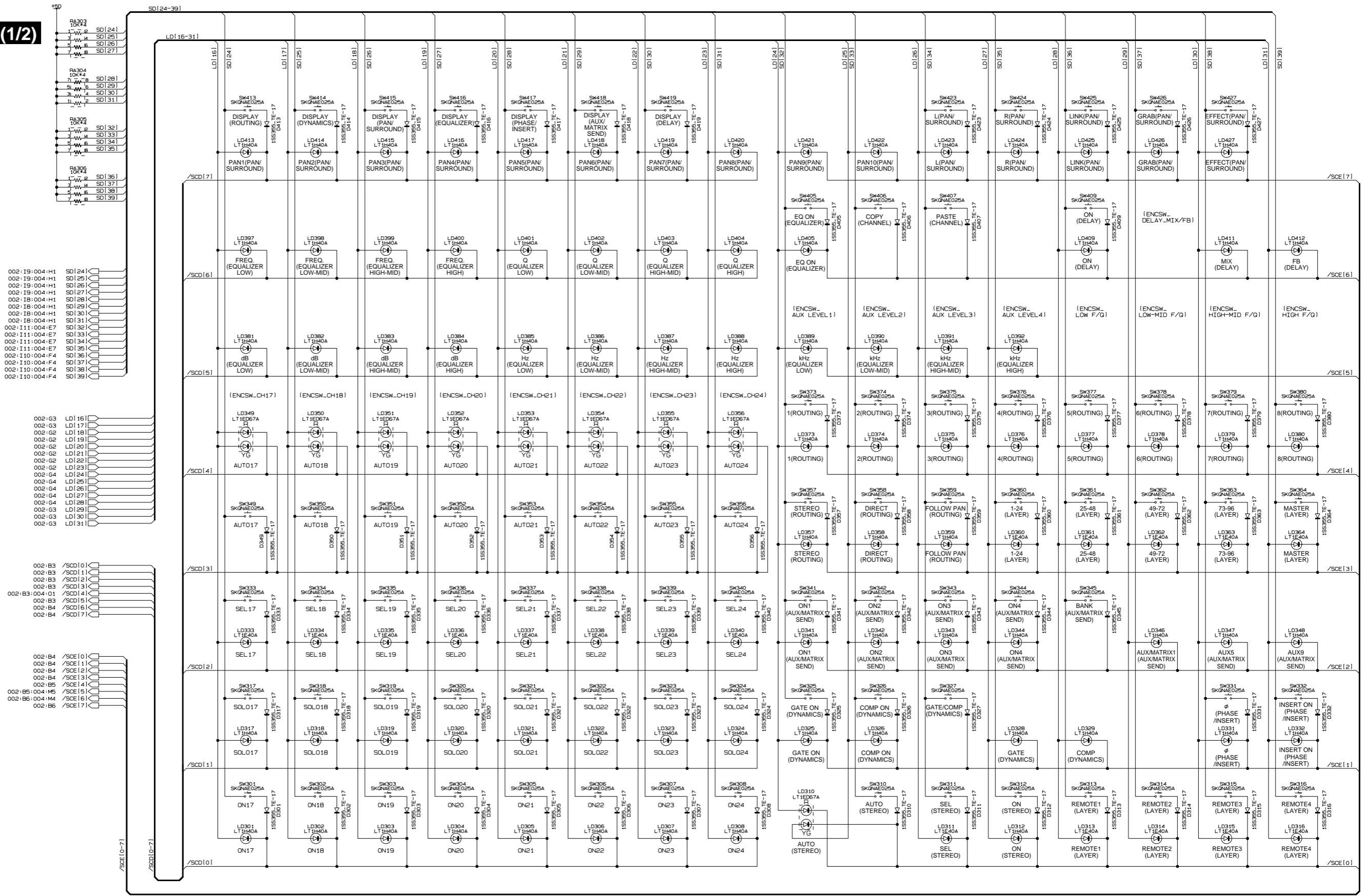
Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



PN2 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

PN2 (1/2)



38CC1-882225-3

Notation for Circuit Diagrams (回路図表記上の注意)
 1. How to identify inter-sheet connectors (シート間コネクタの読み方について)
 Signal name (信号名)
 The 3-digit number indicates the destination page. (3桁の数字は信号の先ページを示します。)
 This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction).
 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

LT1H40A: Yellow
 LT1E40A: Yellow Green
 LT1D40A: Red
 LT1E67A: Red/Yellow Green

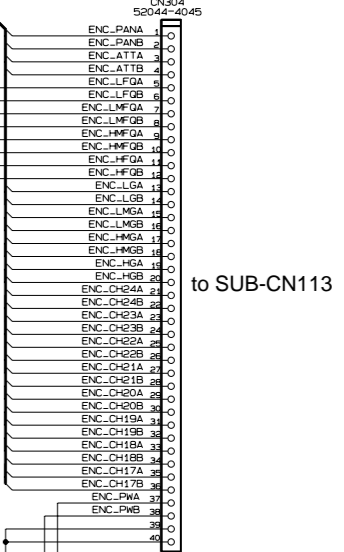
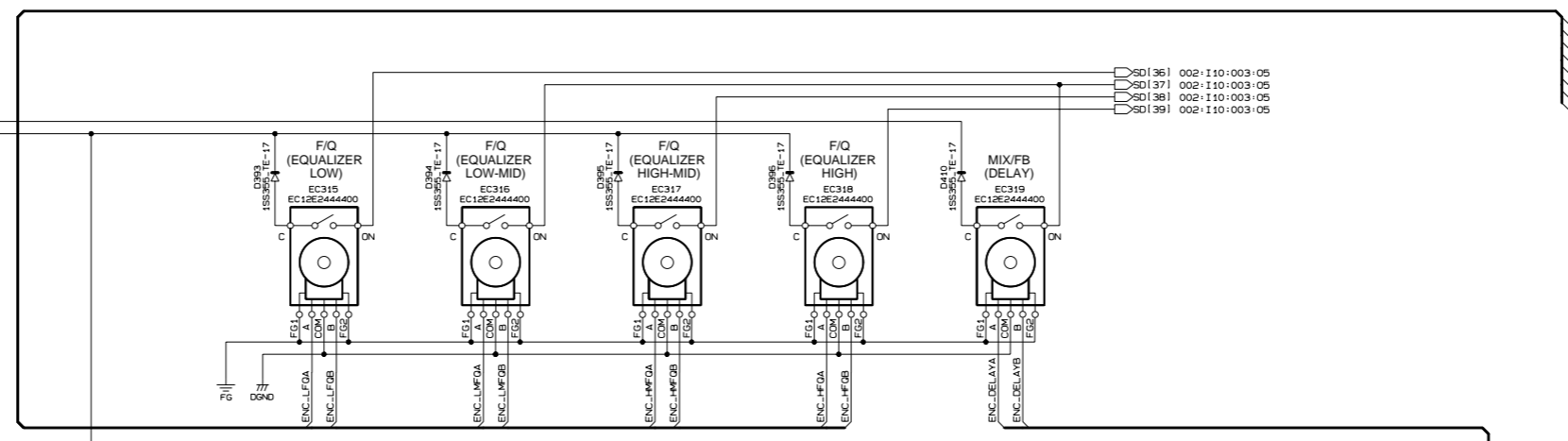
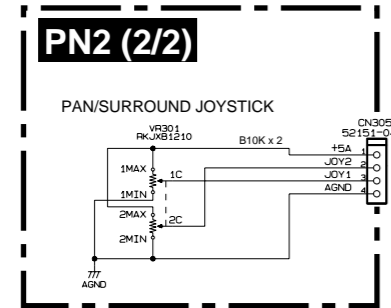
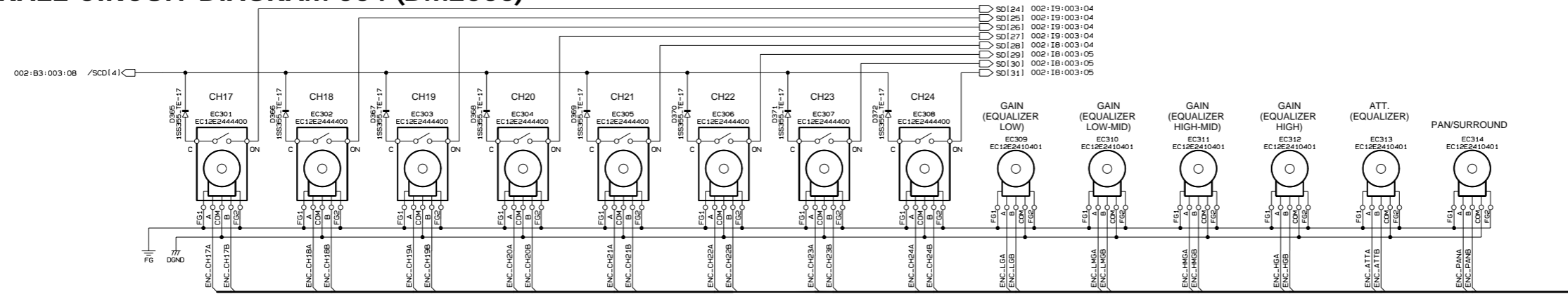
ENCSW : Encoder Switch
 PAN/SURR_ : PAN/SURROUND

PN2 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

PN2 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

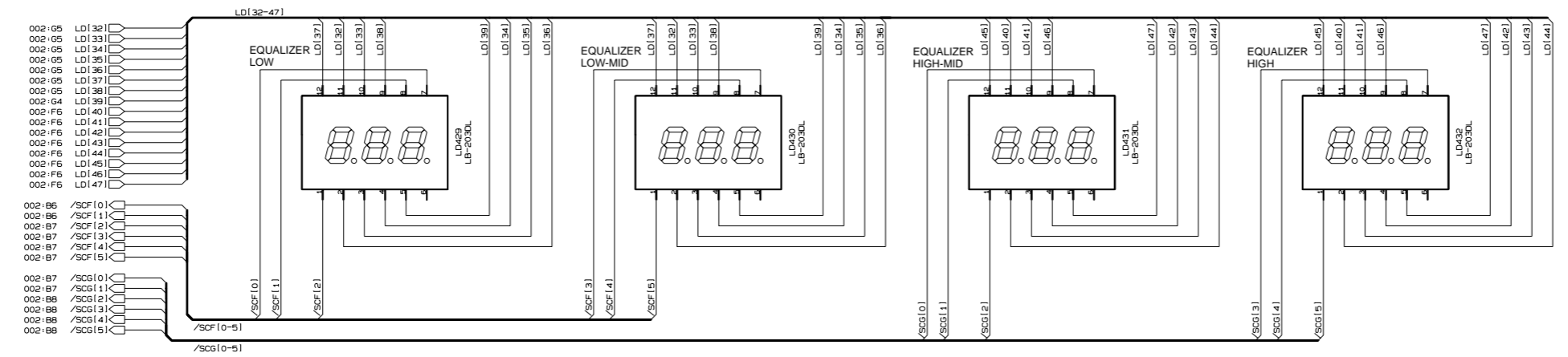
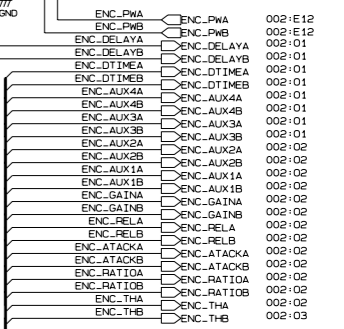
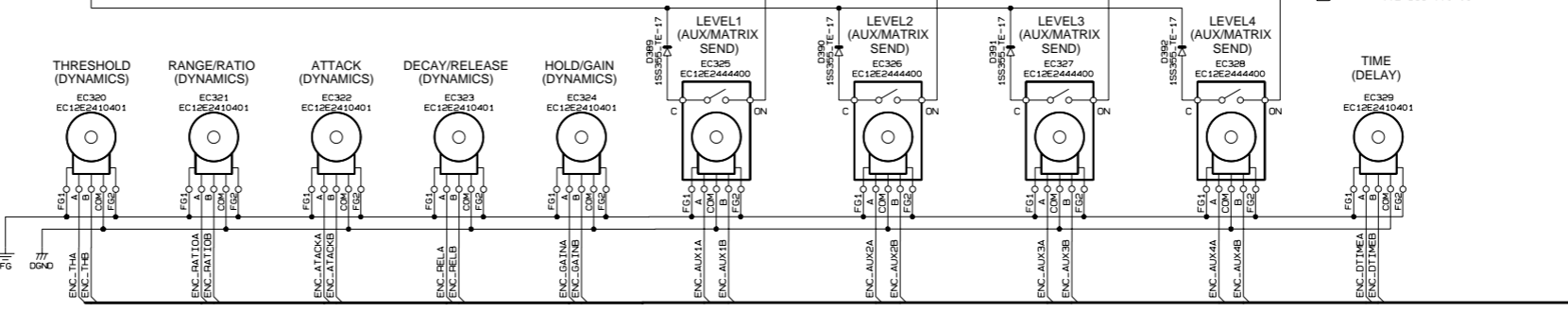
DM2000

PN2 (1/2)



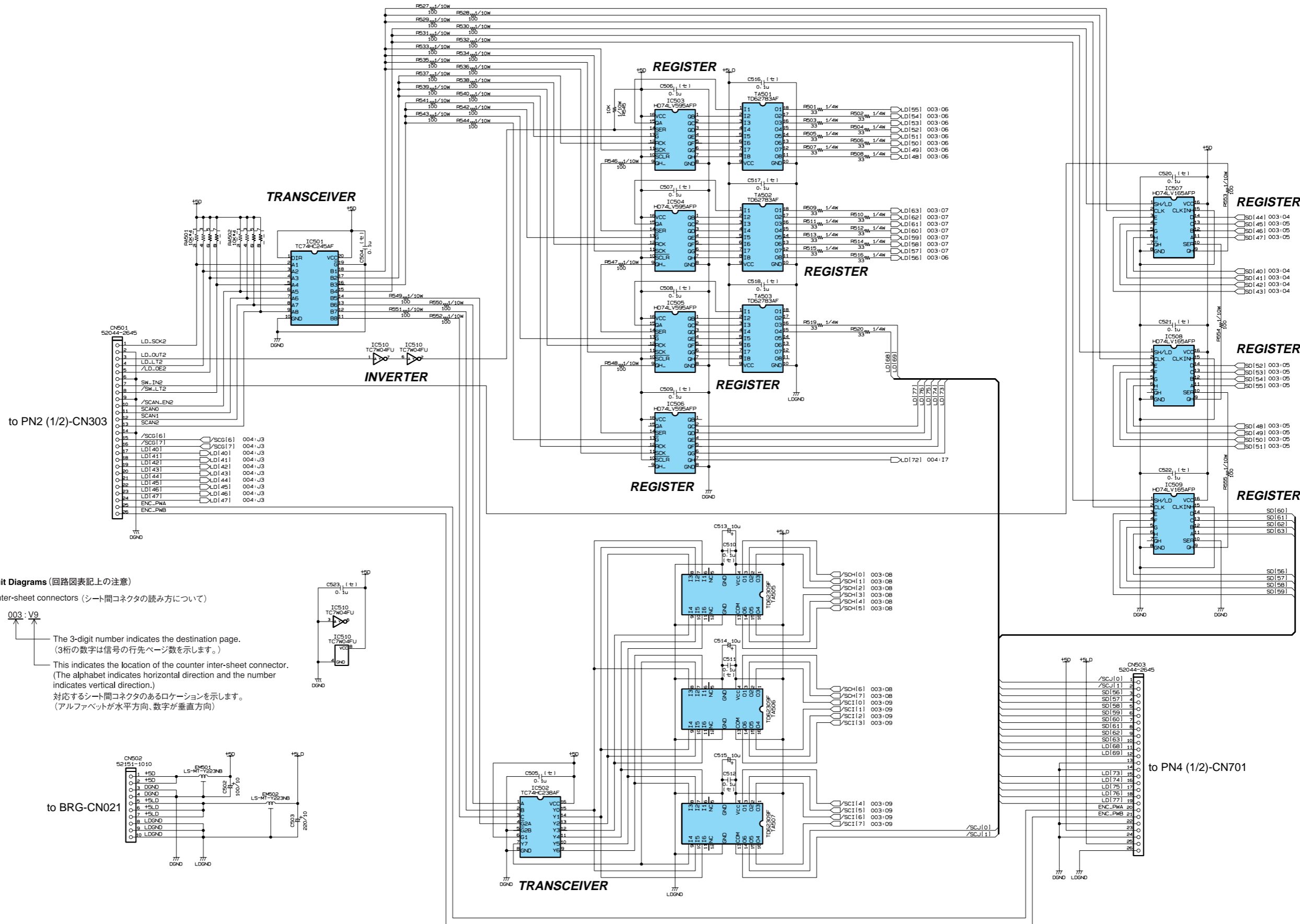
Notation for Circuit Diagrams (回路図表記上の注意)

- How to identify inter-sheet connectors (シート間コネクタの読み方について)
 - Signal name (信号名)
 - 003 : V9
 - The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)
 - This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)



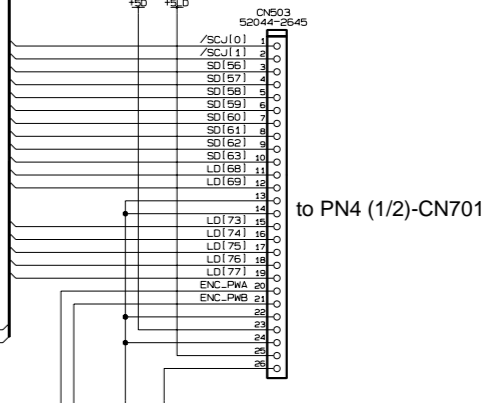
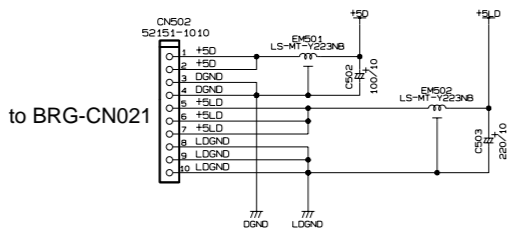
PN3 OVERALL CIRCUIT DIAGRAM 002 (DM2000)

DM2000



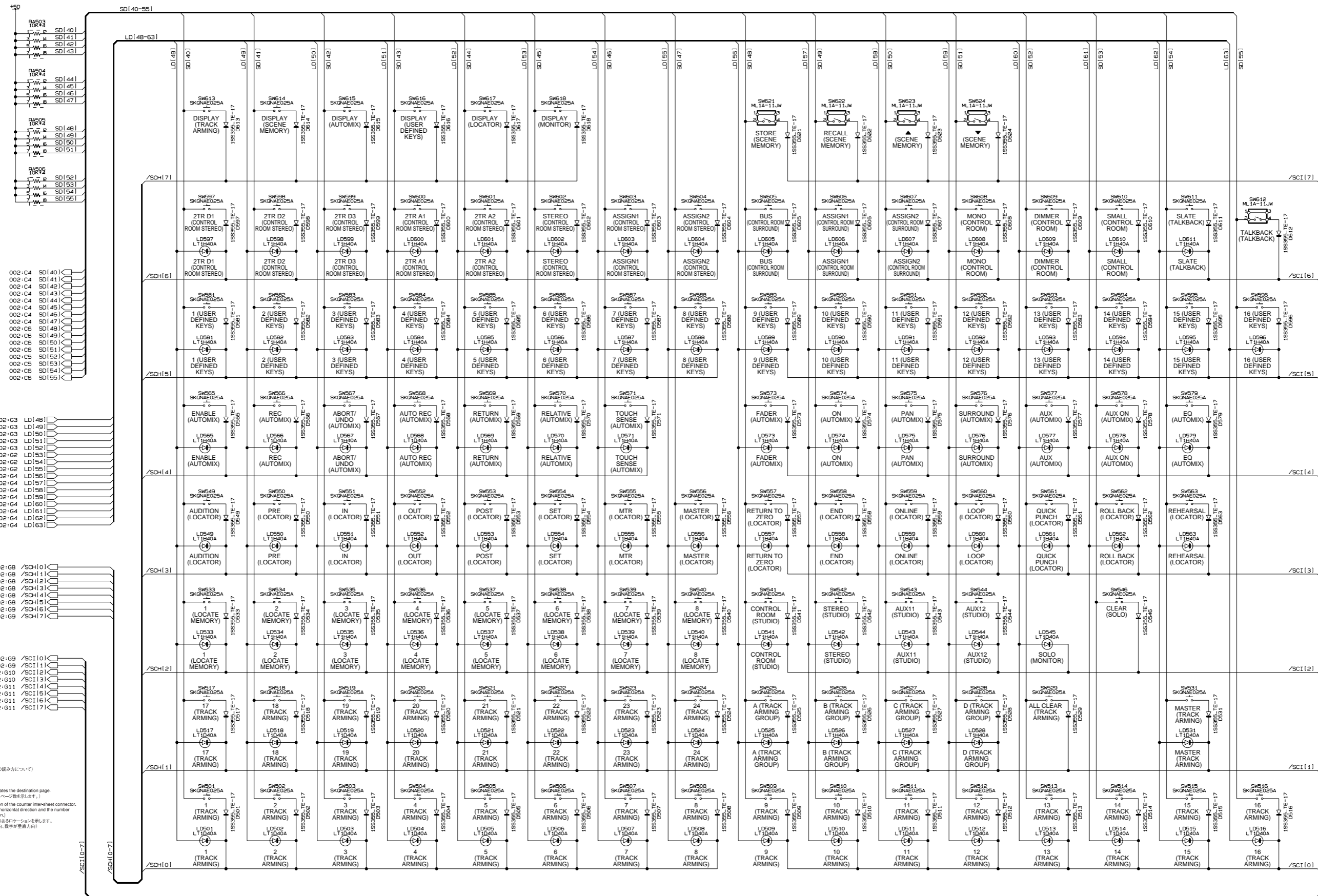
Notation for Circuit Diagrams (回路図表記上の注意)

- How to identify inter-sheet connectors (シート間コネクタの読み方について)
 - Signal name (信号名)
 - 003:V9
 - The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)
 - This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) (対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向))



PN3 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

DM2000



- TAL = TRACK ARMING
- TAG_ = TRACK ARMING GROUP
- LM_ = LOCATE MEMORY
- UDK_ = USER DEFINED KEYS
- CR-STE_ = CONTROL ROOM STEREO
- CR-SURR_ = CONTROL ROOM SURROUND
- CR_ = CONTROL ROOM
- SCENE_ = SCENE MEMORY

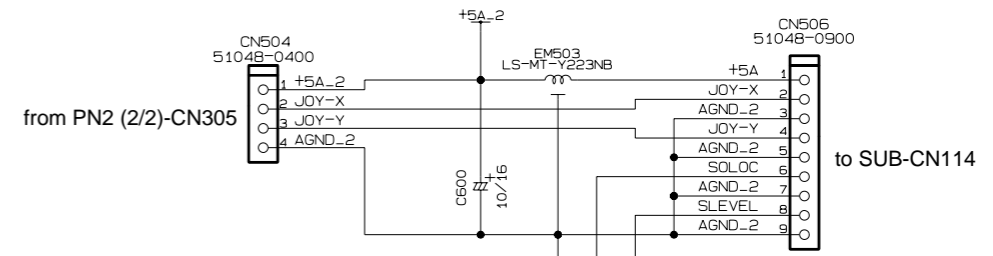
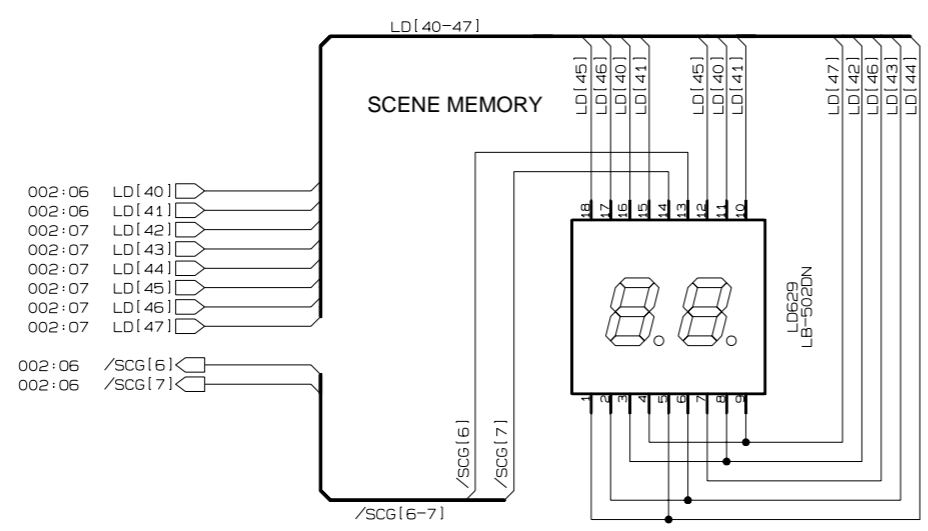
LT1H40A: Yellow
 LT1E40A: Yellow Green
 LT1D40A: Red

PN3 OVERALL CIRCUIT DIAGRAM 003 (DM2000)

38CC1-8822226-3

PN3 OVERALL CIRCUIT DIAGRAM 004 (DM2000)

DM2000



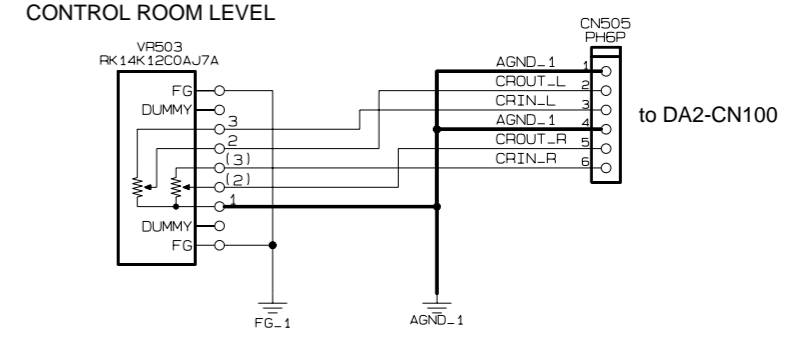
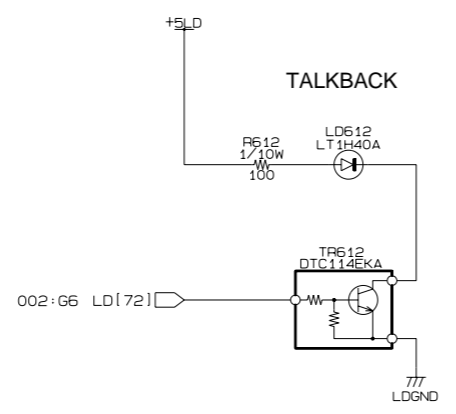
SOLO CONTRAST

SURROUND MONITOR LEVEL

CONTROL ROOM LEVEL

Notation for Circuit Diagrams (回路図表記上の注意)

- How to identify inter-sheet connectors (シート間コネクタの読み方について)
- Signal name (信号名)
- 003:V9
- The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)
- This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) (対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向))



PN4 OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000

1

2

3

4

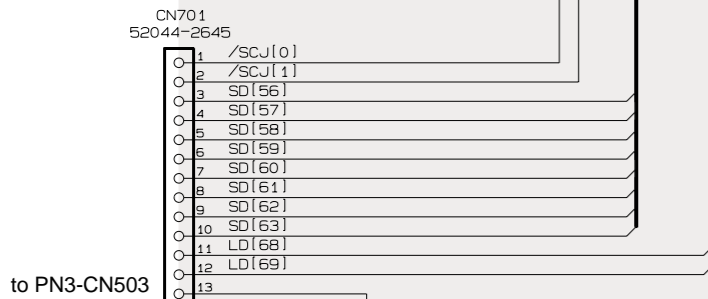
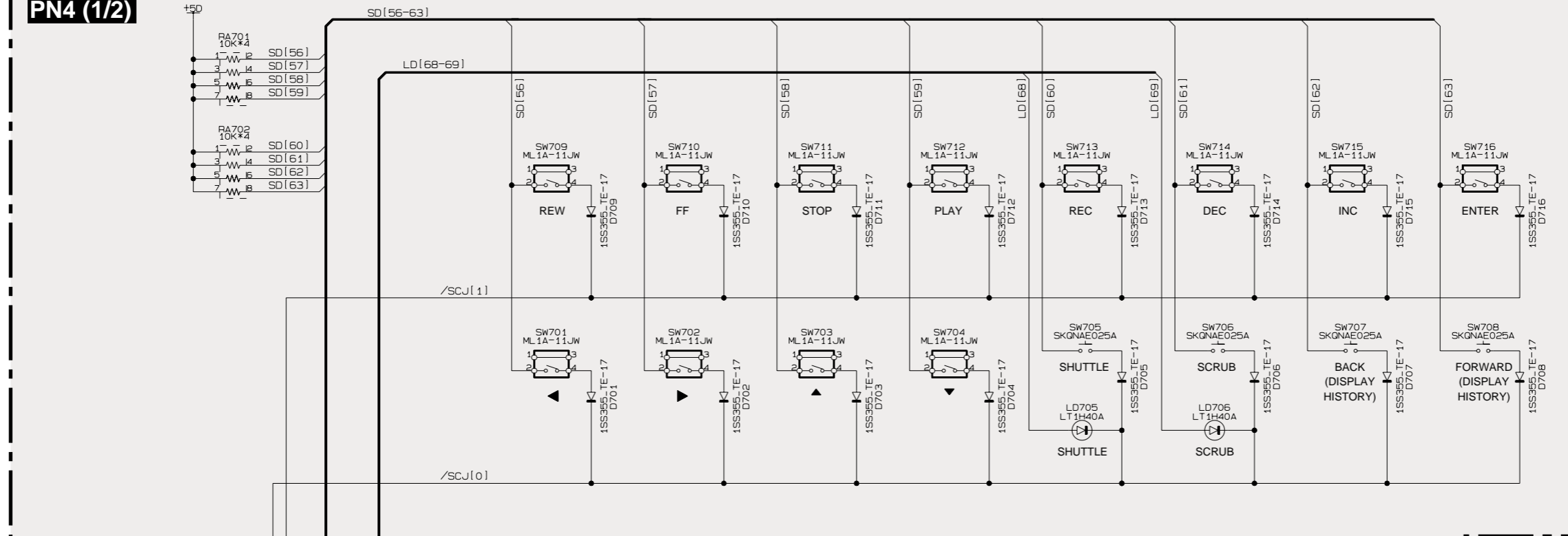
5

6

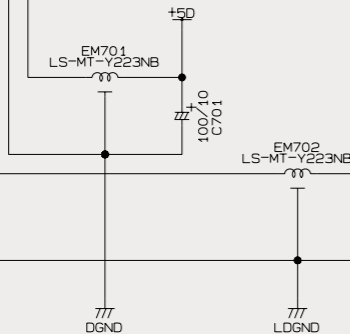
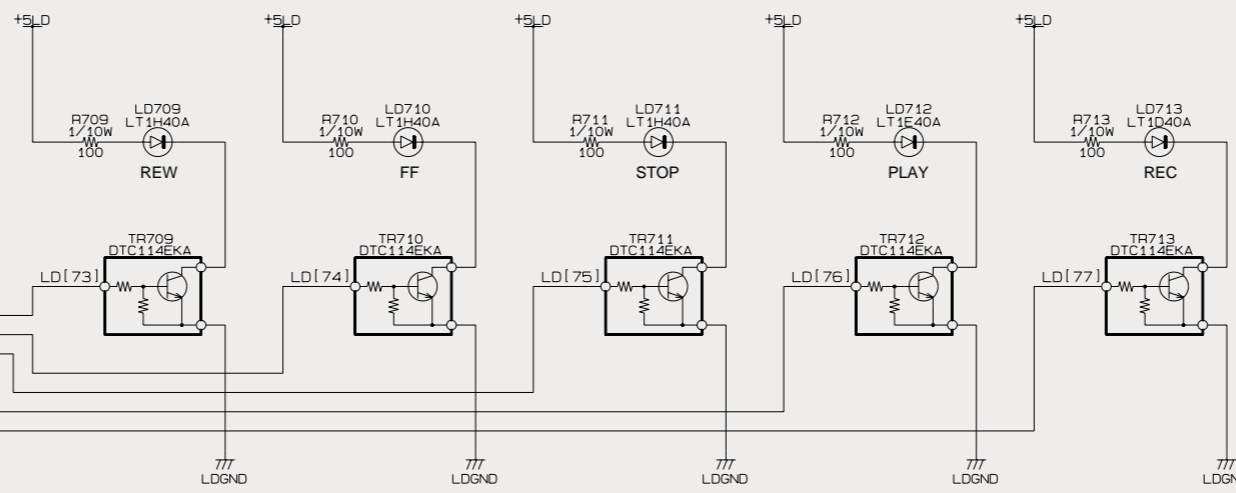
7

8

PN4 (1/2)



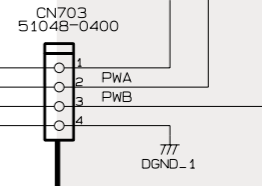
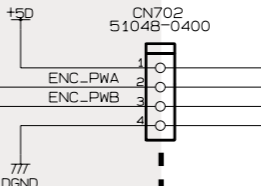
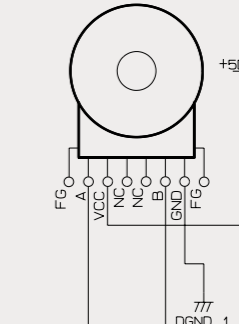
to PN3-CN503



PN4 (2/2)

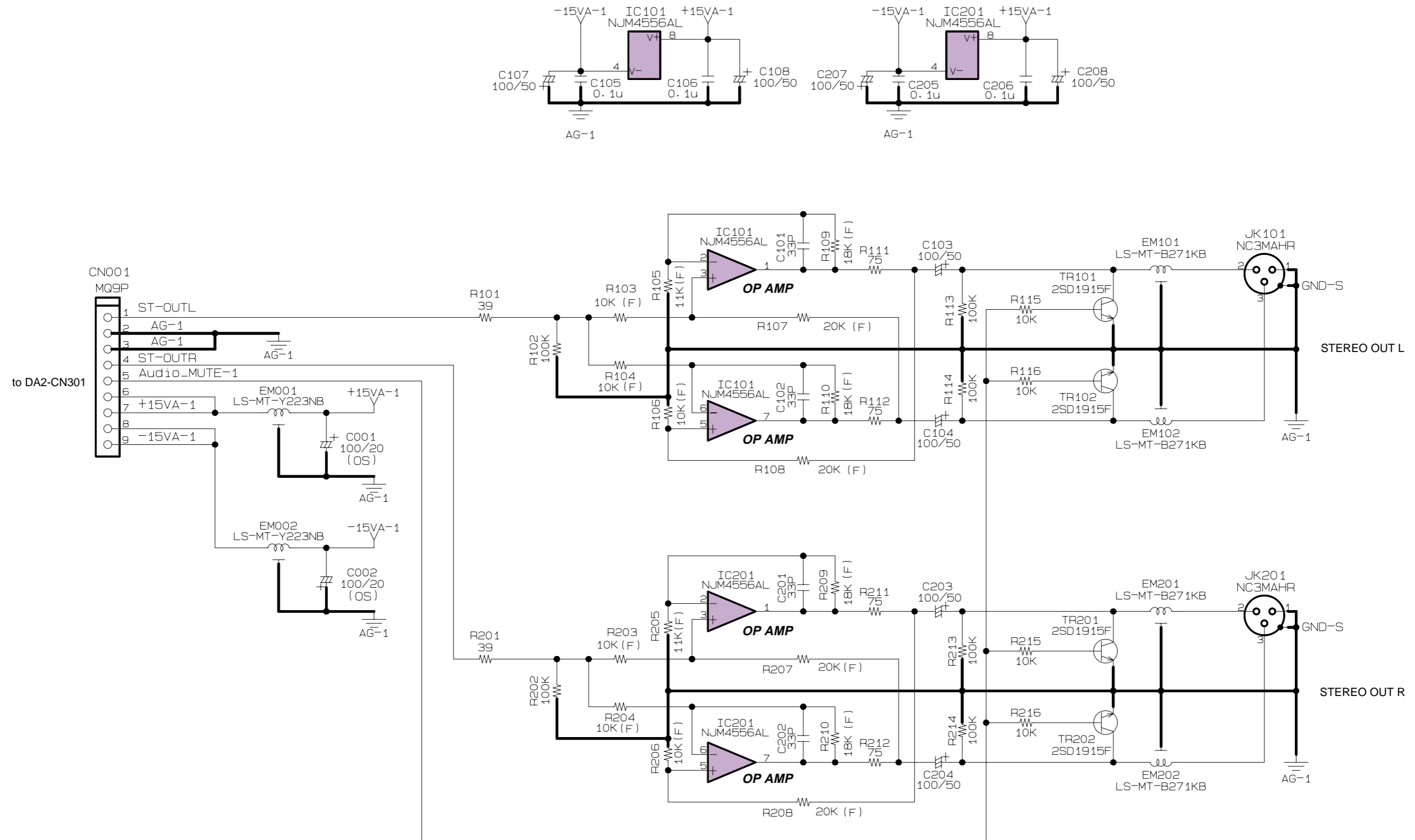
PARAMETER WHEEL

EC701
REC16B25-201-C



ST OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000



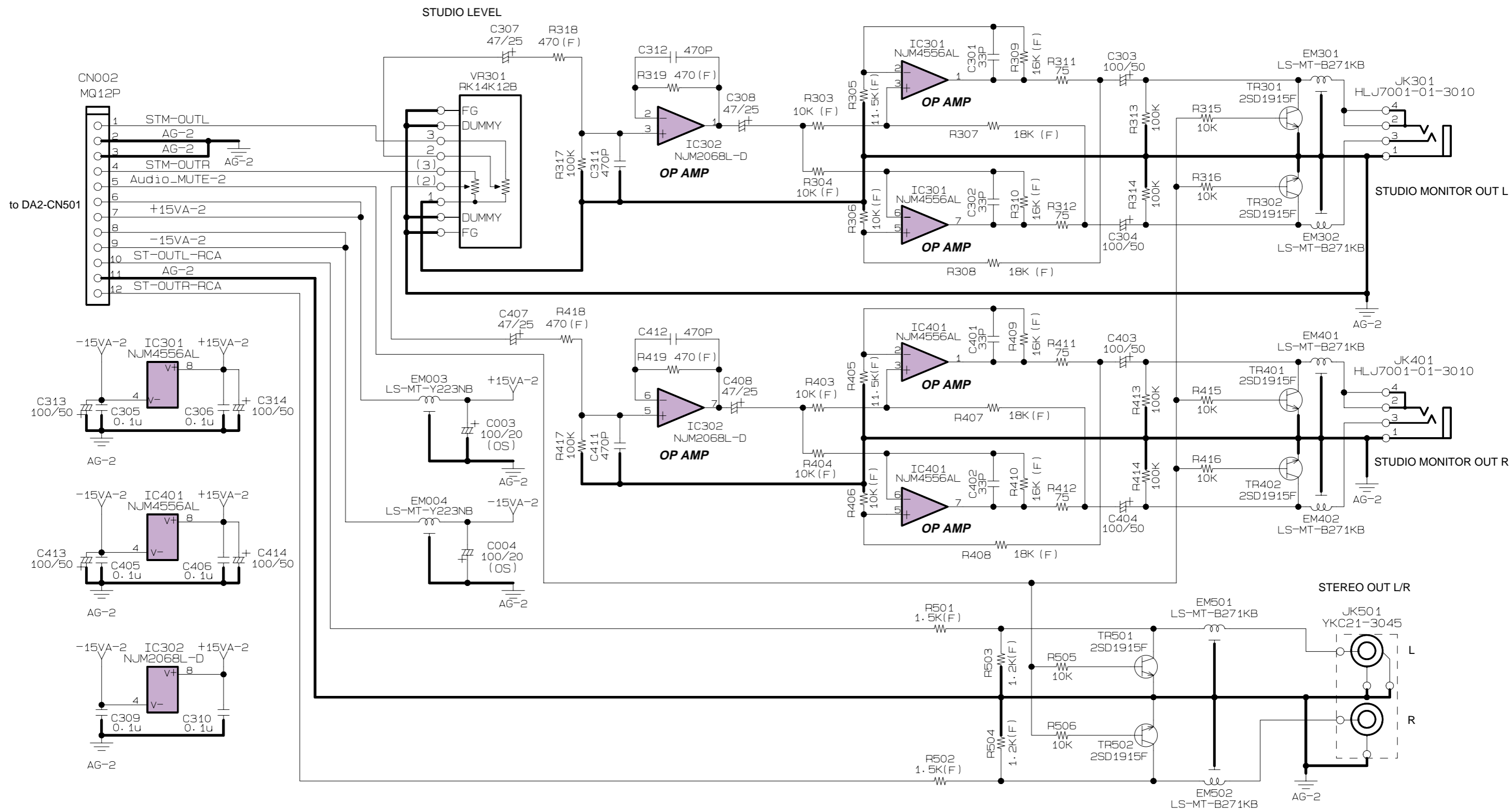
(F): Metal Film Resistor (金属被膜抵抗)
 (OS): Organic Semiconductor Aluminum Electrolytic Capacitor
 (有機半導体アルミ電解コンデンサー)

ST OVERALL CIRCUIT DIAGRAM (DM2000)

38CC1-8822236-1

STD OVERALL CIRCUIT DIAGRAM (DM2000)

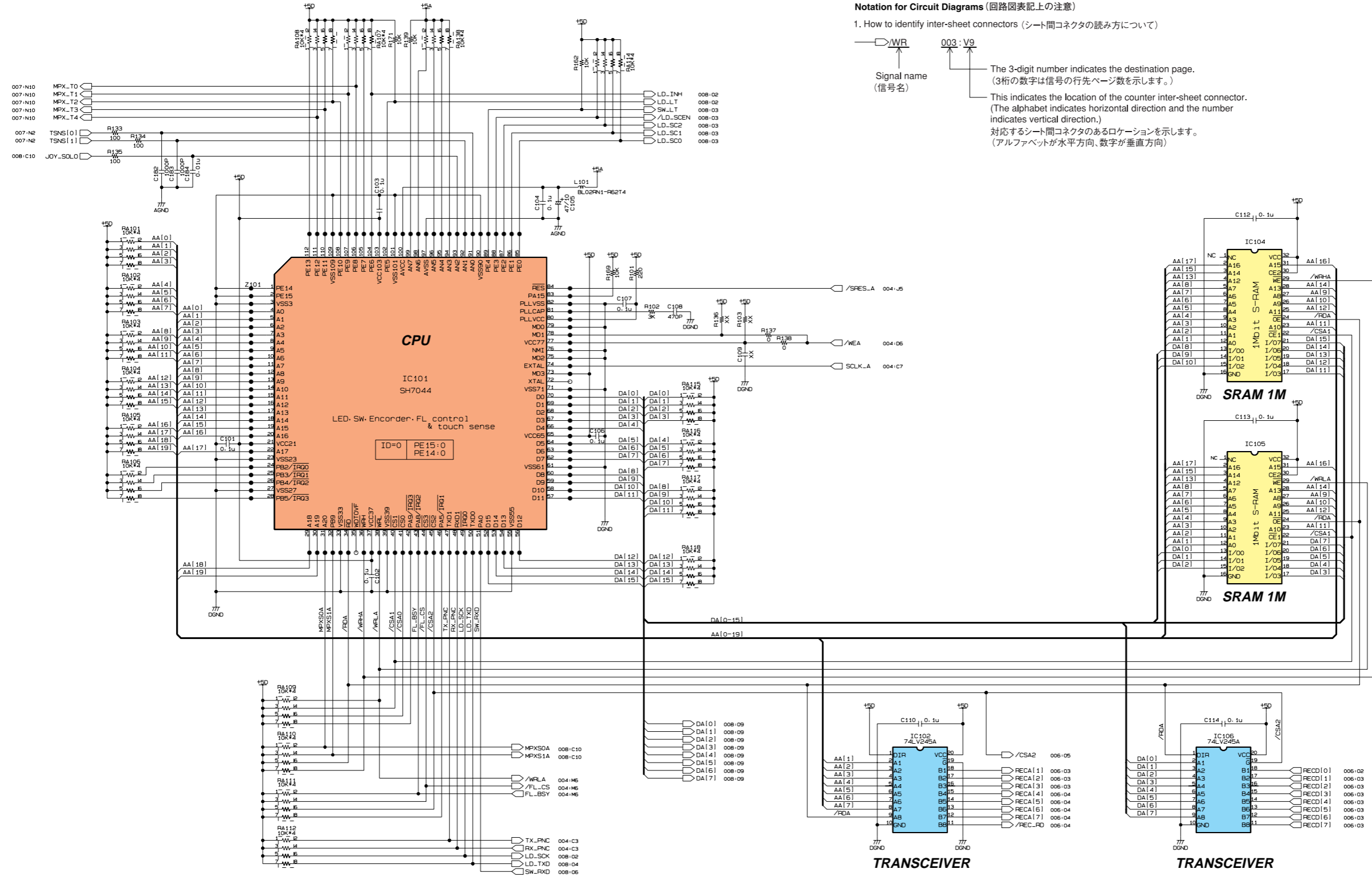
DM2000



(F) : Metal Film Resistor (金属被膜抵抗)
 (OS) : Organic Semiconductor Aluminum Electrolytic Capacitor
 (有機半導体アルミ電解コンデンサー)

■ SUB OVERALL CIRCUIT DIAGRAM 002 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

- How to identify inter-sheet connectors (シート間コネクタの読み方について)
- Signal name (信号名)

 003:V9

 The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

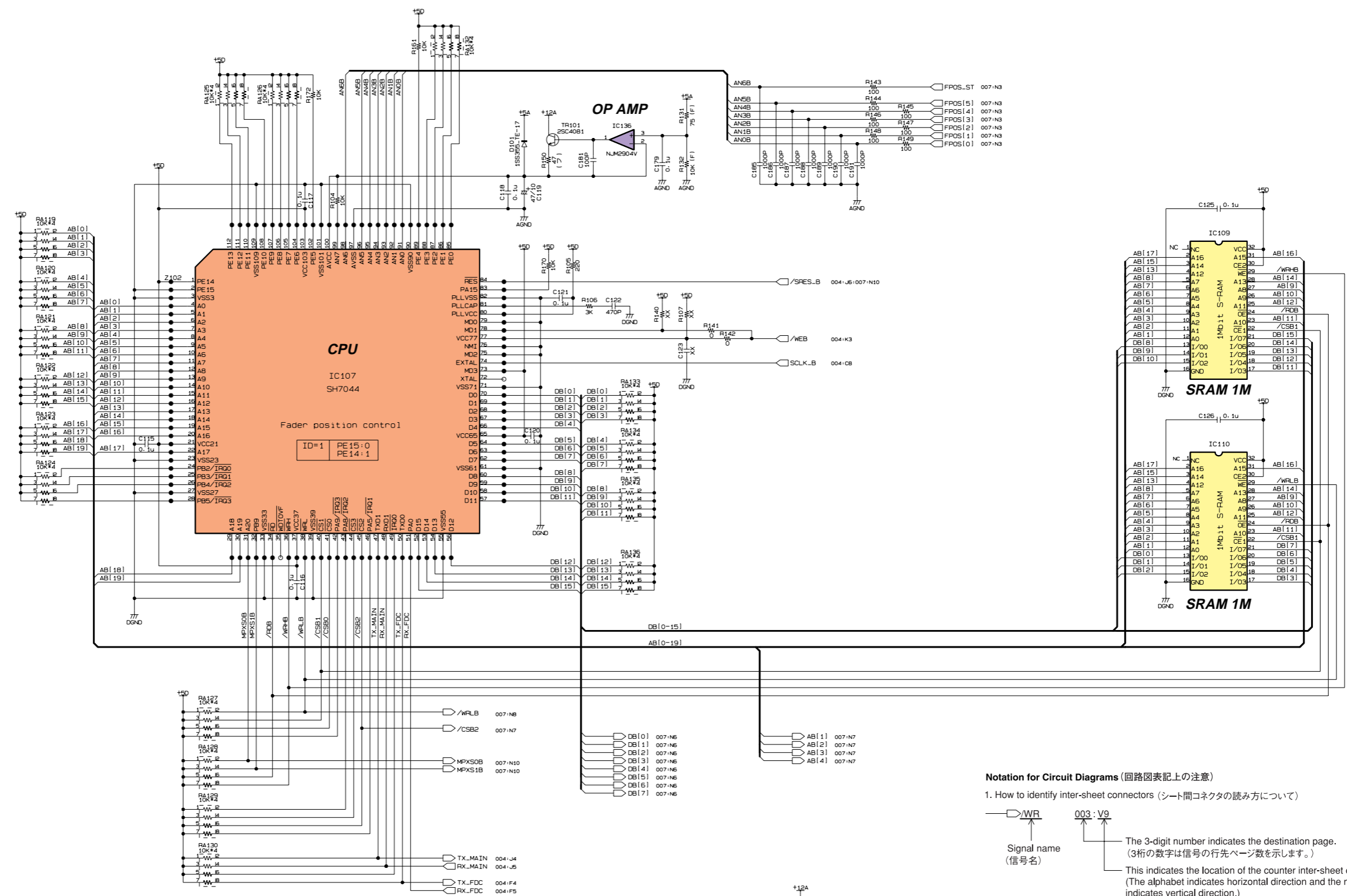
 This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)

 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

XX: not installed (実装しない)

■ SUB OVERALL CIRCUIT DIAGRAM 003 (DM2000)

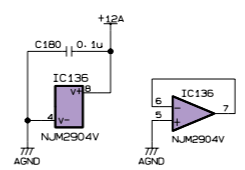
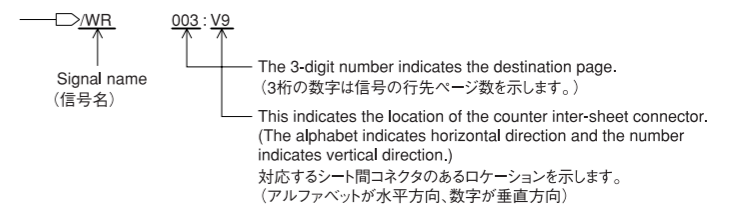
DM2000



XX: not installed (実装しない)
 (F): 1/10W Metal Film Resistor (金属被膜抵抗)
 (フ): 1/4W Flame Proof C. Resistor (不燃化カーボン抵抗)

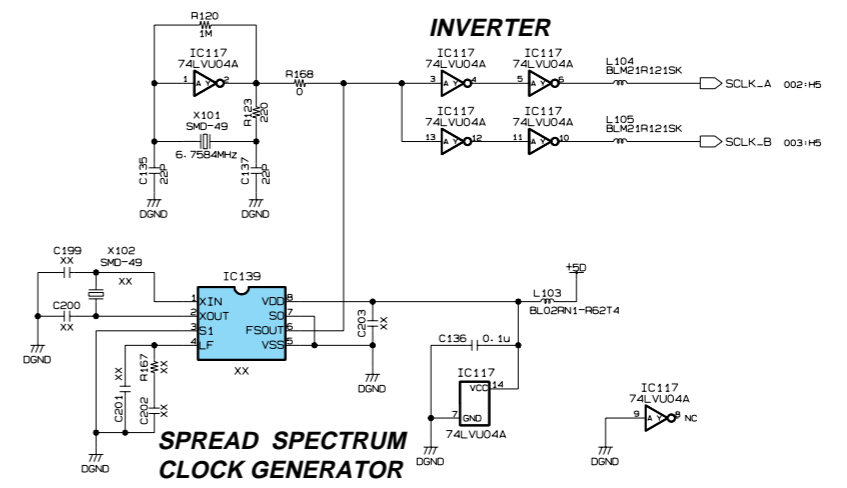
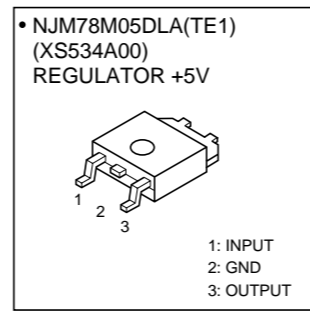
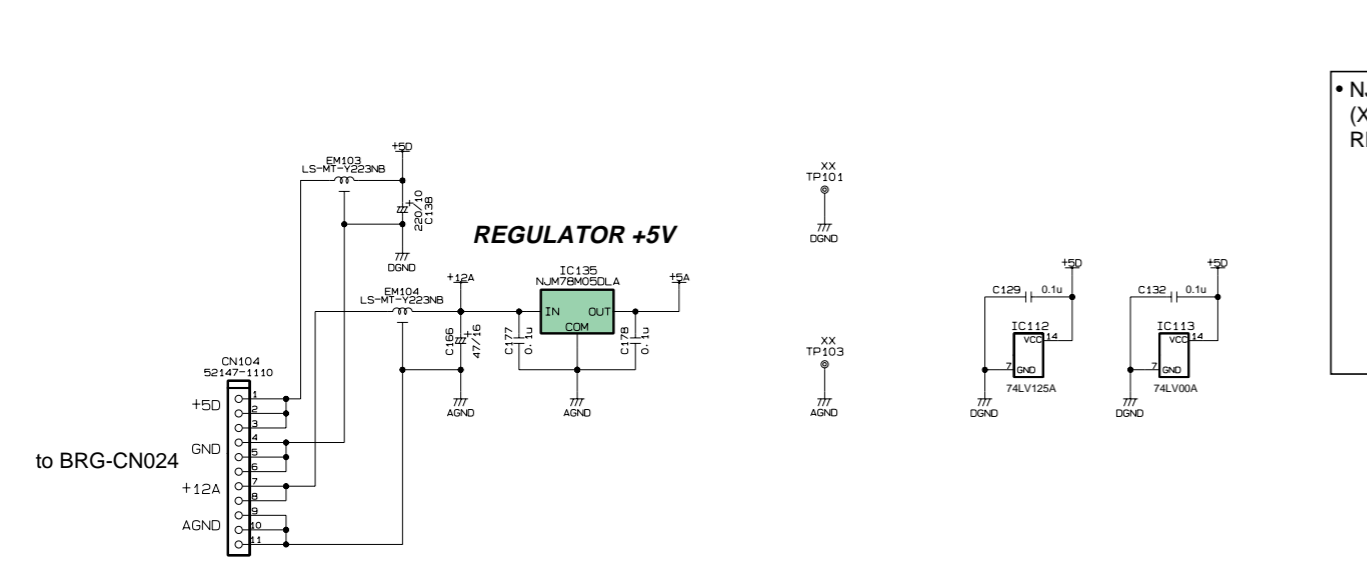
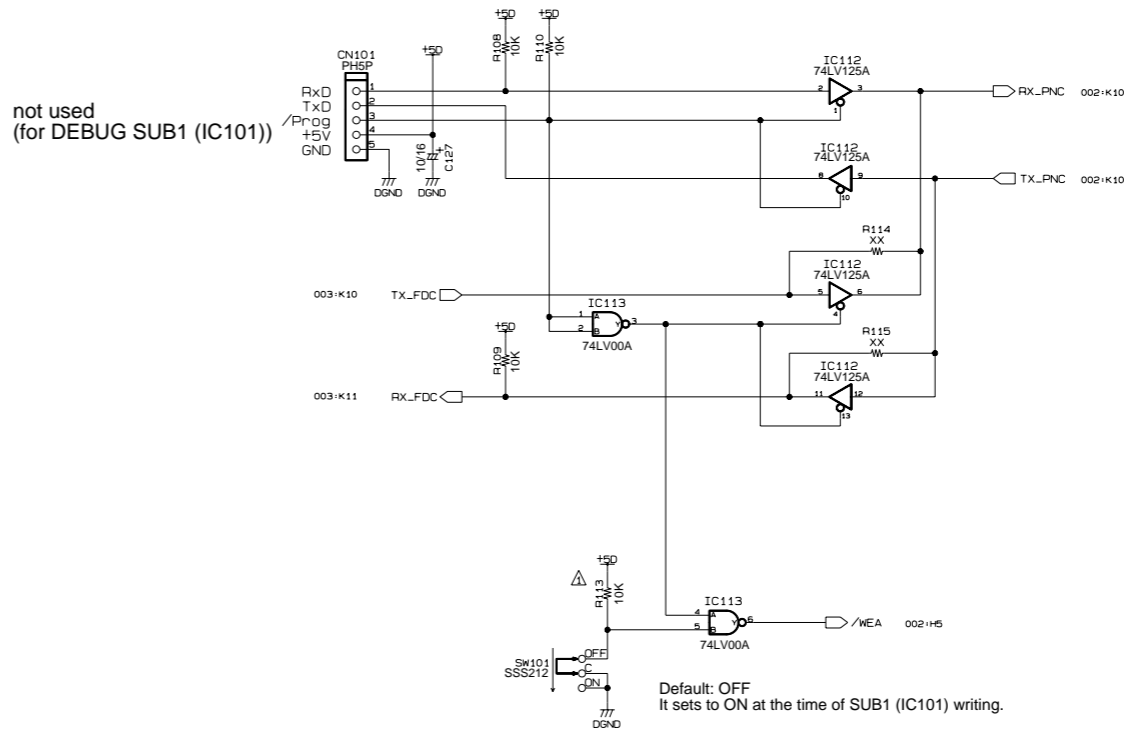
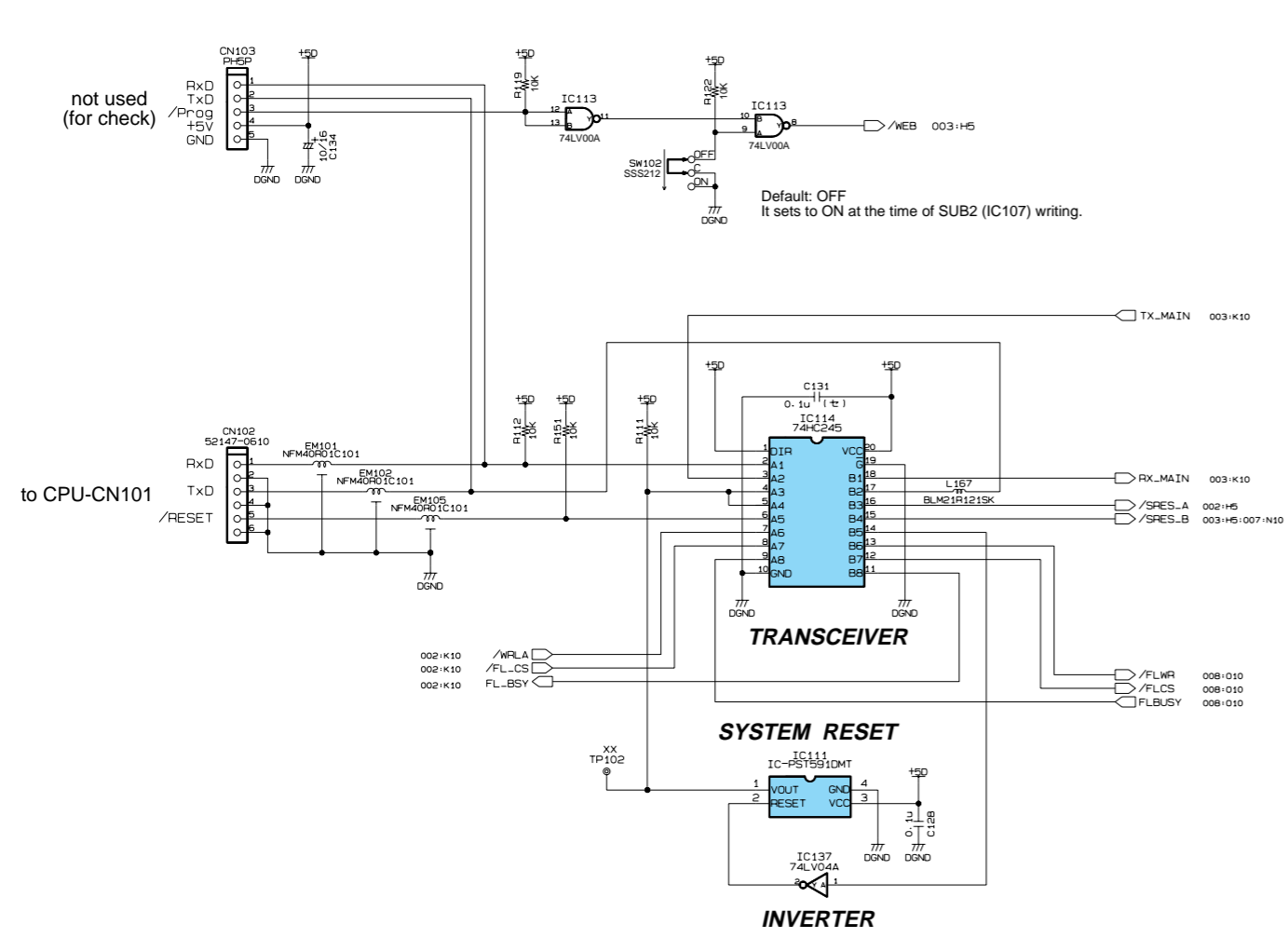
Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



■ SUB OVERALL CIRCUIT DIAGRAM 004 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

Signal name (信号名)

003:V9

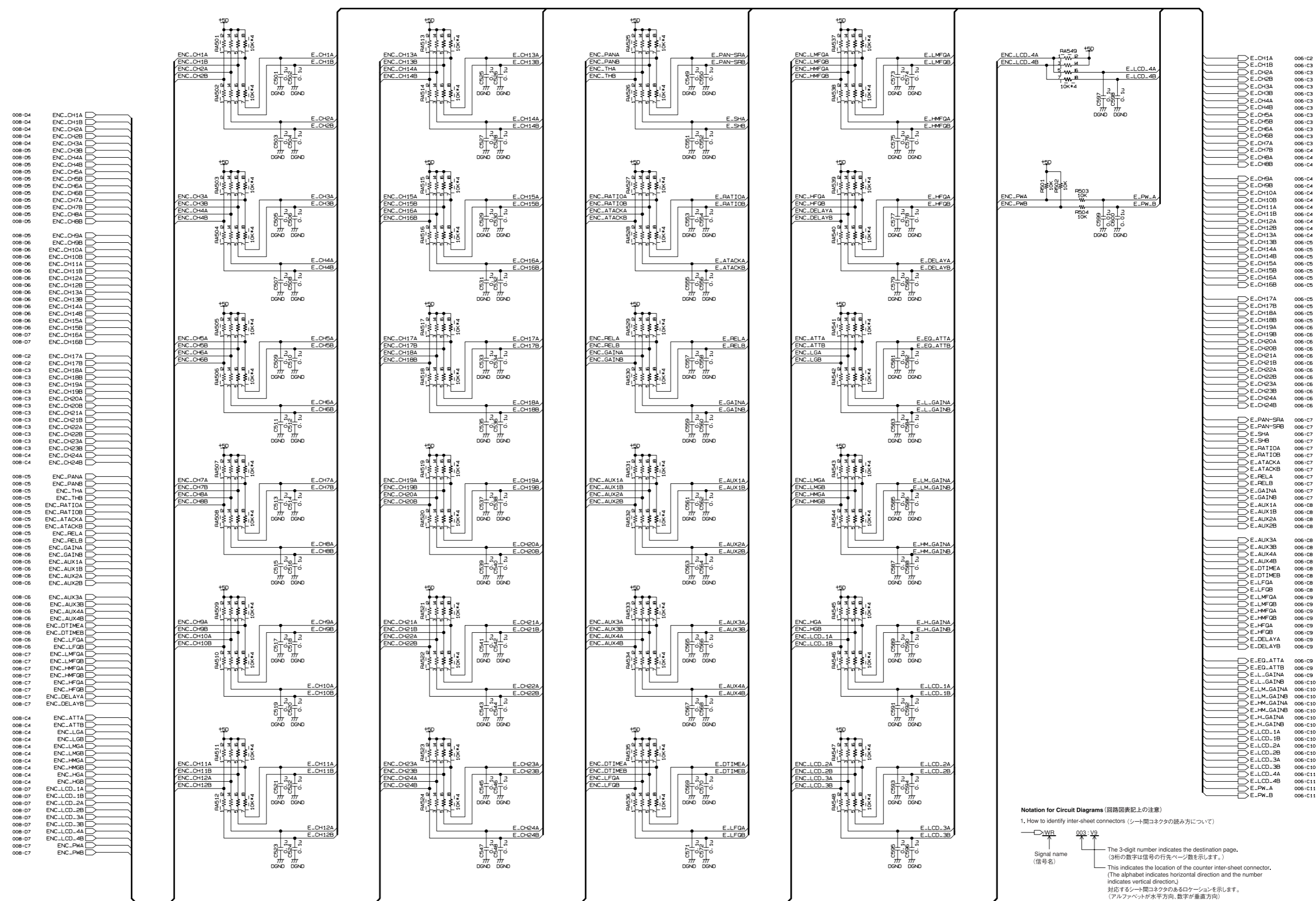
The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

■ SUB OVERALL CIRCUIT DIAGRAM 004 (DM2000)

SUB OVERALL CIRCUIT DIAGRAM 005 (DM2000)

DM2000



- 006:04 ENC_CH1A
- 006:04 ENC_CH1B
- 006:04 ENC_CH2A
- 006:04 ENC_CH2B
- 006:04 ENC_CH3A
- 006:05 ENC_CH3B
- 006:05 ENC_CH4A
- 006:05 ENC_CH4B
- 006:05 ENC_CH5A
- 006:05 ENC_CH5B
- 006:05 ENC_CH6A
- 006:05 ENC_CH6B
- 006:05 ENC_CH7A
- 006:05 ENC_CH7B
- 006:05 ENC_CH8A
- 006:05 ENC_CH8B
- 006:05 ENC_CH9A
- 006:06 ENC_CH9B
- 006:06 ENC_CH10A
- 006:06 ENC_CH10B
- 006:06 ENC_CH11A
- 006:06 ENC_CH11B
- 006:06 ENC_CH12A
- 006:06 ENC_CH12B
- 006:06 ENC_CH13A
- 006:06 ENC_CH13B
- 006:06 ENC_CH14A
- 006:06 ENC_CH14B
- 006:06 ENC_CH15A
- 006:06 ENC_CH15B
- 006:07 ENC_CH16A
- 006:07 ENC_CH16B
- 006:07 ENC_CH17A
- 006:07 ENC_CH17B
- 006:07 ENC_CH18A
- 006:07 ENC_CH18B
- 006:07 ENC_CH19A
- 006:07 ENC_CH19B
- 006:07 ENC_CH20A
- 006:07 ENC_CH20B
- 006:07 ENC_CH21A
- 006:07 ENC_CH21B
- 006:07 ENC_CH22A
- 006:07 ENC_CH22B
- 006:07 ENC_CH23A
- 006:07 ENC_CH23B
- 006:07 ENC_CH24A
- 006:07 ENC_CH24B
- 006:05 ENC_PANA
- 006:05 ENC_PANB
- 006:05 ENC_THA
- 006:05 ENC_THB
- 006:05 ENC_RATIOA
- 006:05 ENC_RATIOB
- 006:05 ENC_ATTACKA
- 006:05 ENC_ATTACKB
- 006:05 ENC_RELB
- 006:05 ENC_GAINA
- 006:05 ENC_GAINB
- 006:05 ENC_AUX1A
- 006:05 ENC_AUX1B
- 006:05 ENC_AUX2A
- 006:05 ENC_AUX2B
- 006:05 ENC_AUX3A
- 006:05 ENC_AUX3B
- 006:05 ENC_AUX4A
- 006:05 ENC_AUX4B
- 006:05 ENC_DT1MEA
- 006:05 ENC_DT1MEB
- 006:05 ENC_LF0A
- 006:05 ENC_LF0B
- 006:05 ENC_LMF0A
- 006:05 ENC_LMF0B
- 006:05 ENC_HMF0A
- 006:05 ENC_HMF0B
- 006:05 ENC_HF0A
- 006:05 ENC_HF0B
- 006:05 ENC_DELAYA
- 006:05 ENC_DELAYB
- 006:04 ENC_ATT1A
- 006:04 ENC_ATT1B
- 006:04 ENC_LGA
- 006:04 ENC_LGB
- 006:04 ENC_LMGA
- 006:04 ENC_LMGB
- 006:04 ENC_HMGA
- 006:04 ENC_HMGB
- 006:04 ENC_HGA
- 006:04 ENC_HGB
- 006:04 ENC_LCD_1A
- 006:04 ENC_LCD_1B
- 006:04 ENC_LCD_2A
- 006:04 ENC_LCD_2B
- 006:04 ENC_LCD_3A
- 006:04 ENC_LCD_3B
- 006:04 ENC_LCD_4A
- 006:04 ENC_LCD_4B
- 006:07 ENC_PWA
- 006:07 ENC_PWB

Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

→WRB 003-V9

Signal name (信号名)

The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) (対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向))

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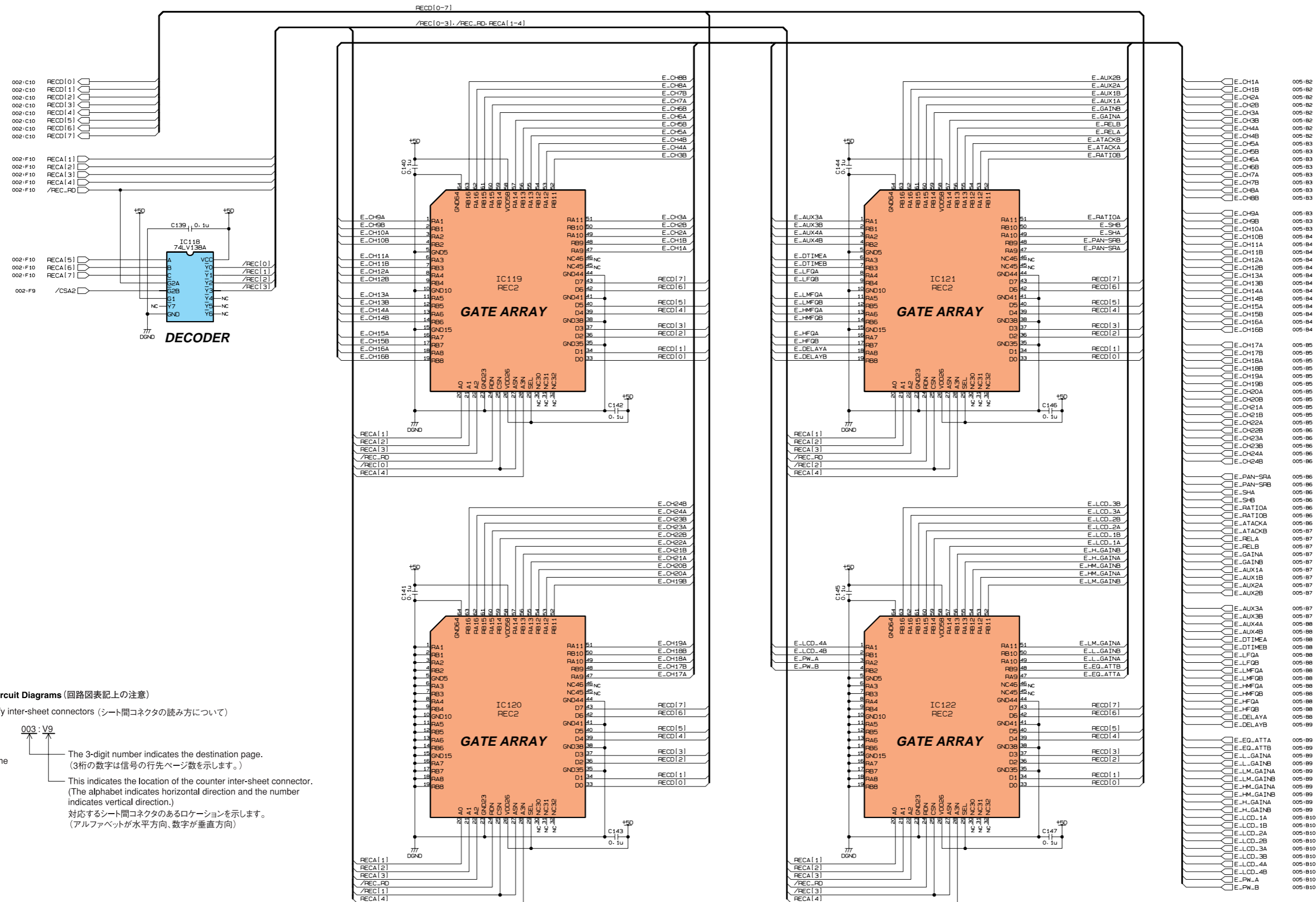
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■ SUB OVERALL CIRCUIT DIAGRAM 006 (DM2000)

DM2000



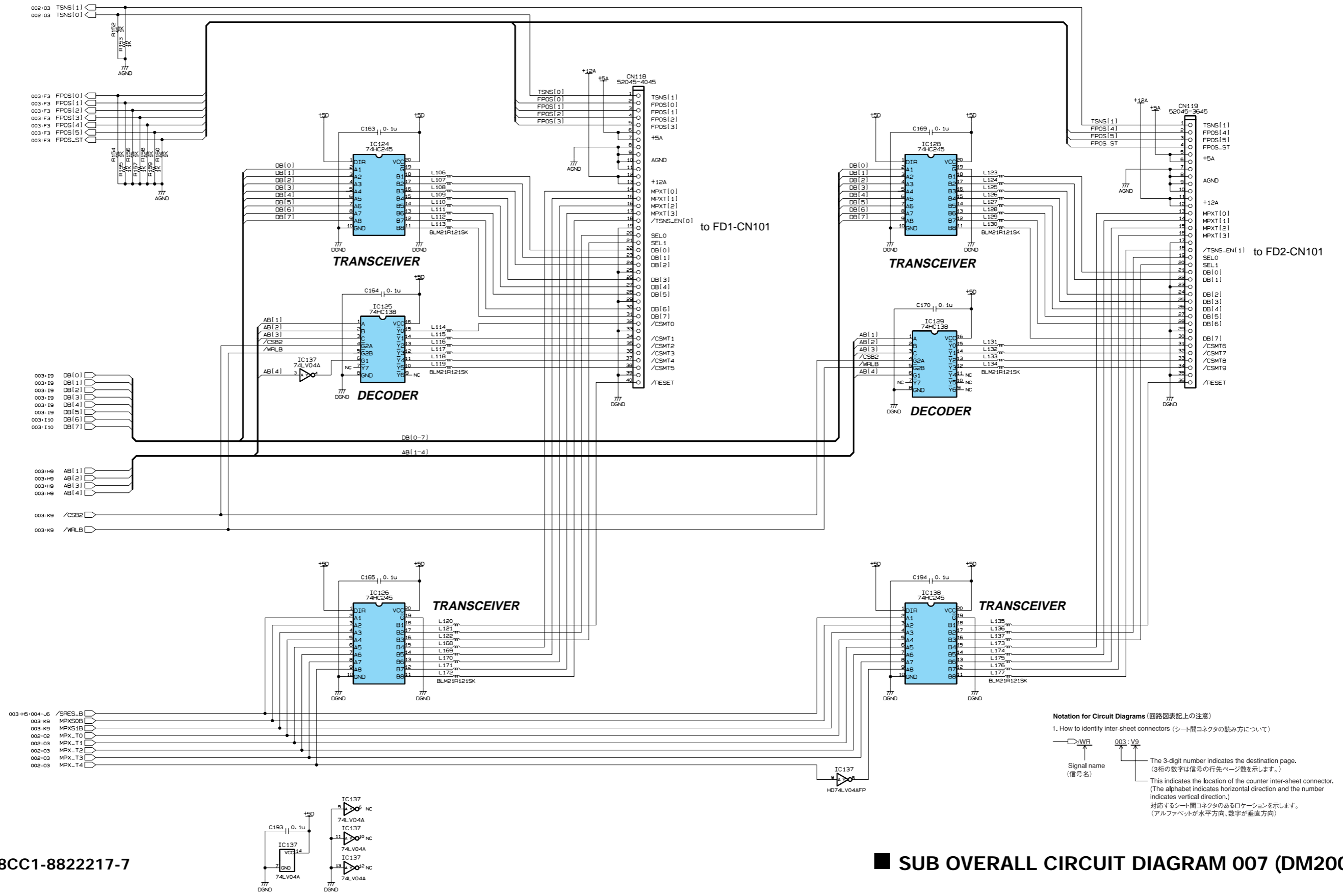
Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

- Signal name (信号名)
- The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)
- This indicates the location of the connector inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

■ SUB OVERALL CIRCUIT DIAGRAM 007 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

→ W/R 003:V9

Signal name (信号名)

The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

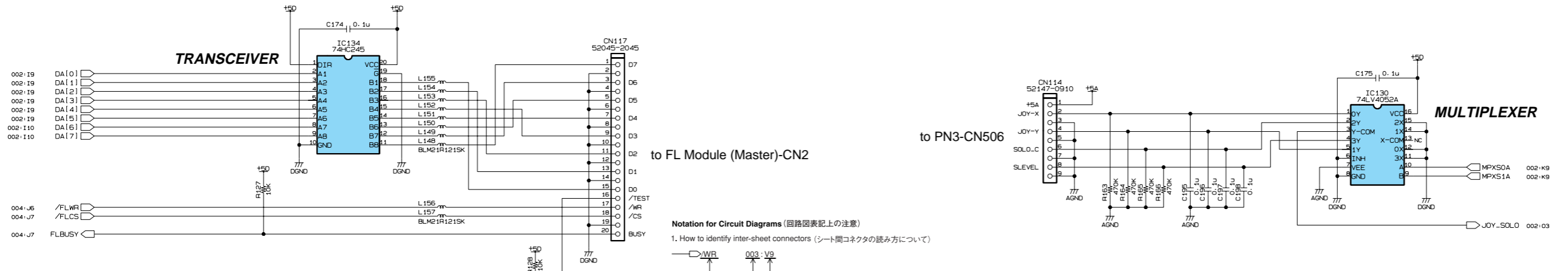
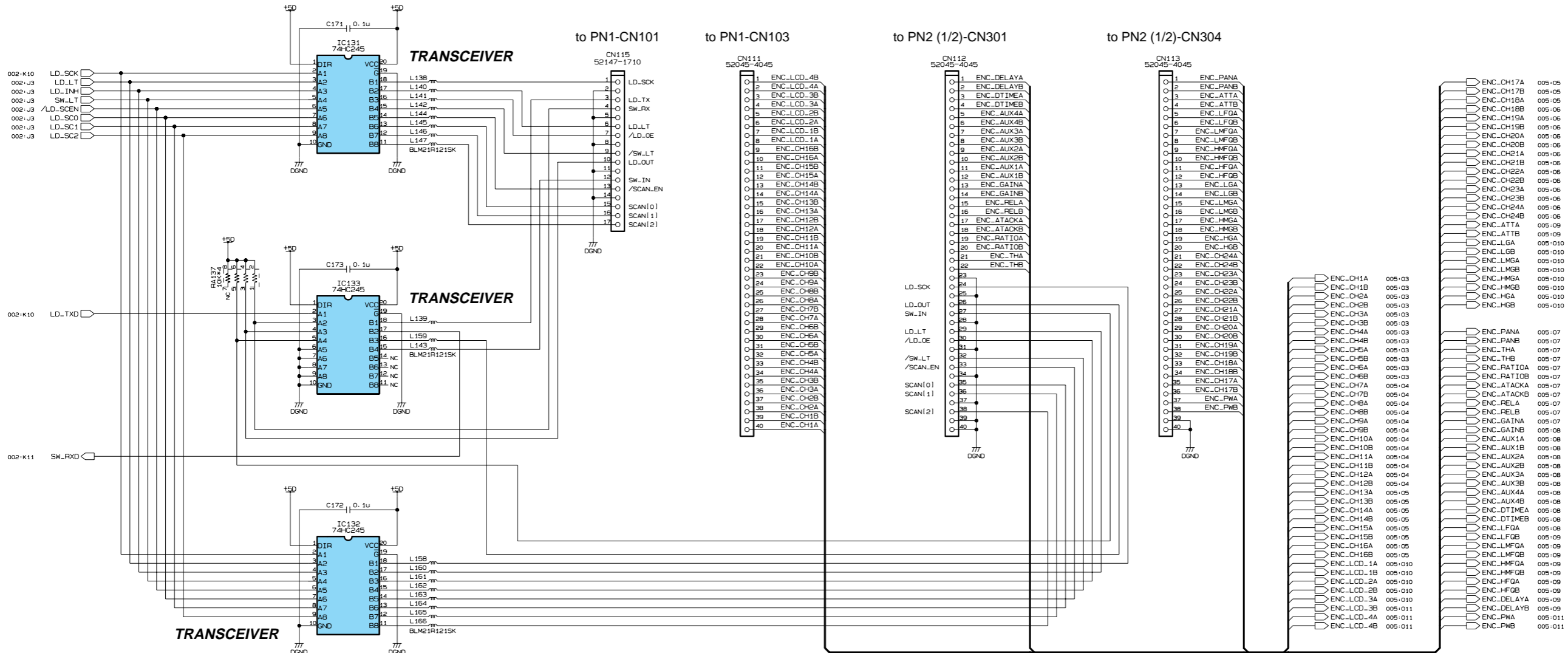
This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

38CC1-8822217-7

■ SUB OVERALL CIRCUIT DIAGRAM 007 (DM2000)

■ SUB OVERALL CIRCUIT DIAGRAM 008 (DM2000)

DM2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

Signal name (信号名)

 The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

 This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)

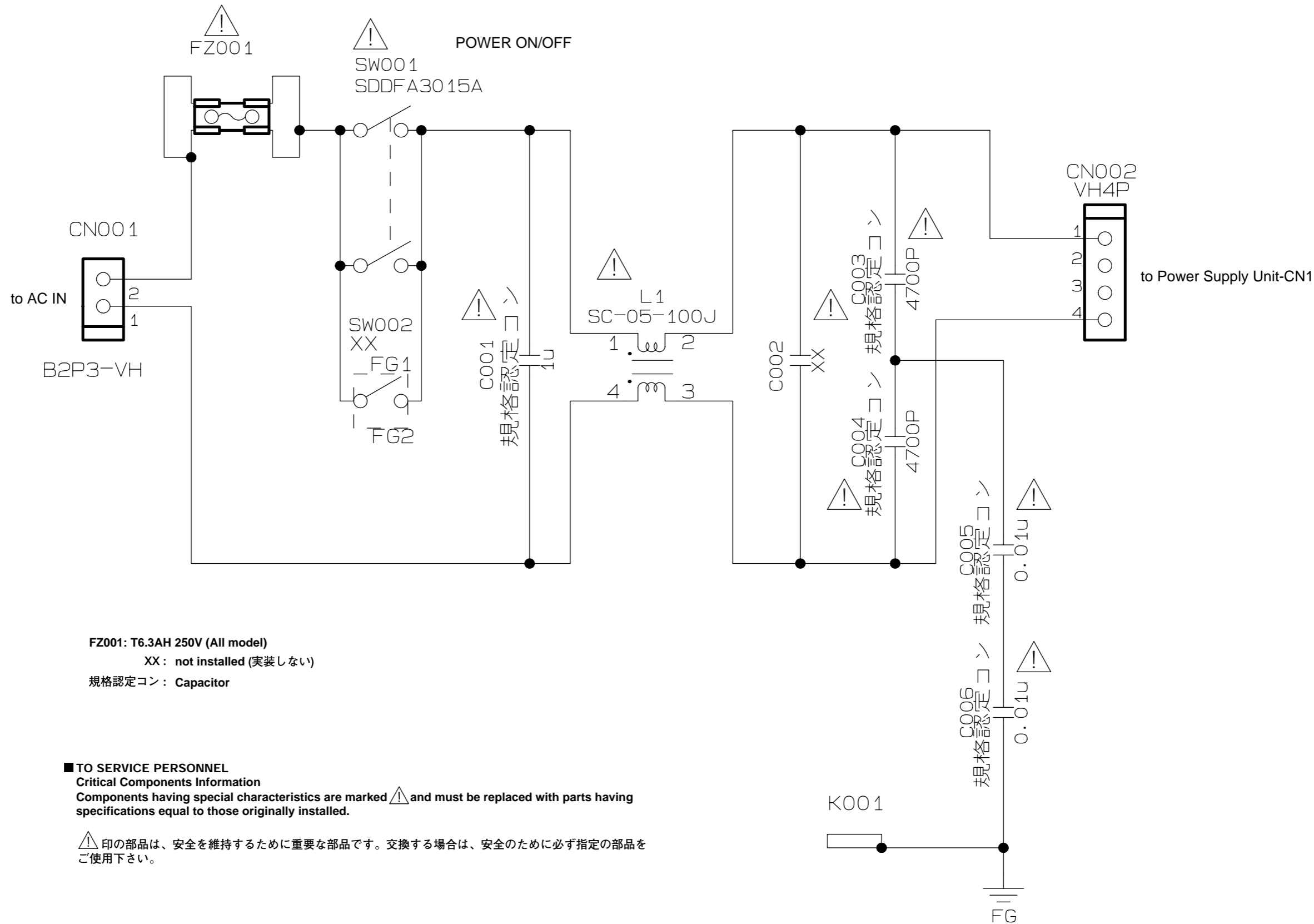
 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

XX: not installed (実装しない)

■ SUB OVERALL CIRCUIT DIAGRAM 008 (DM2000)

SW OVERALL CIRCUIT DIAGRAM (DM2000)

DM2000



FZ001: T6.3AH 250V (All model)
 XX: not installed (実装しない)
 規格認定コン: Capacitor

■ TO SERVICE PERSONNEL
 Critical Components Information
 Components having special characteristics are marked ⚠ and must be replaced with parts having specifications equal to those originally installed.

⚠印の部品は、安全を維持するために重要な部品です。交換する場合は、安全のために必ず指定の部品をご使用下さい。

PEAK METER BRIDGE

MB2000

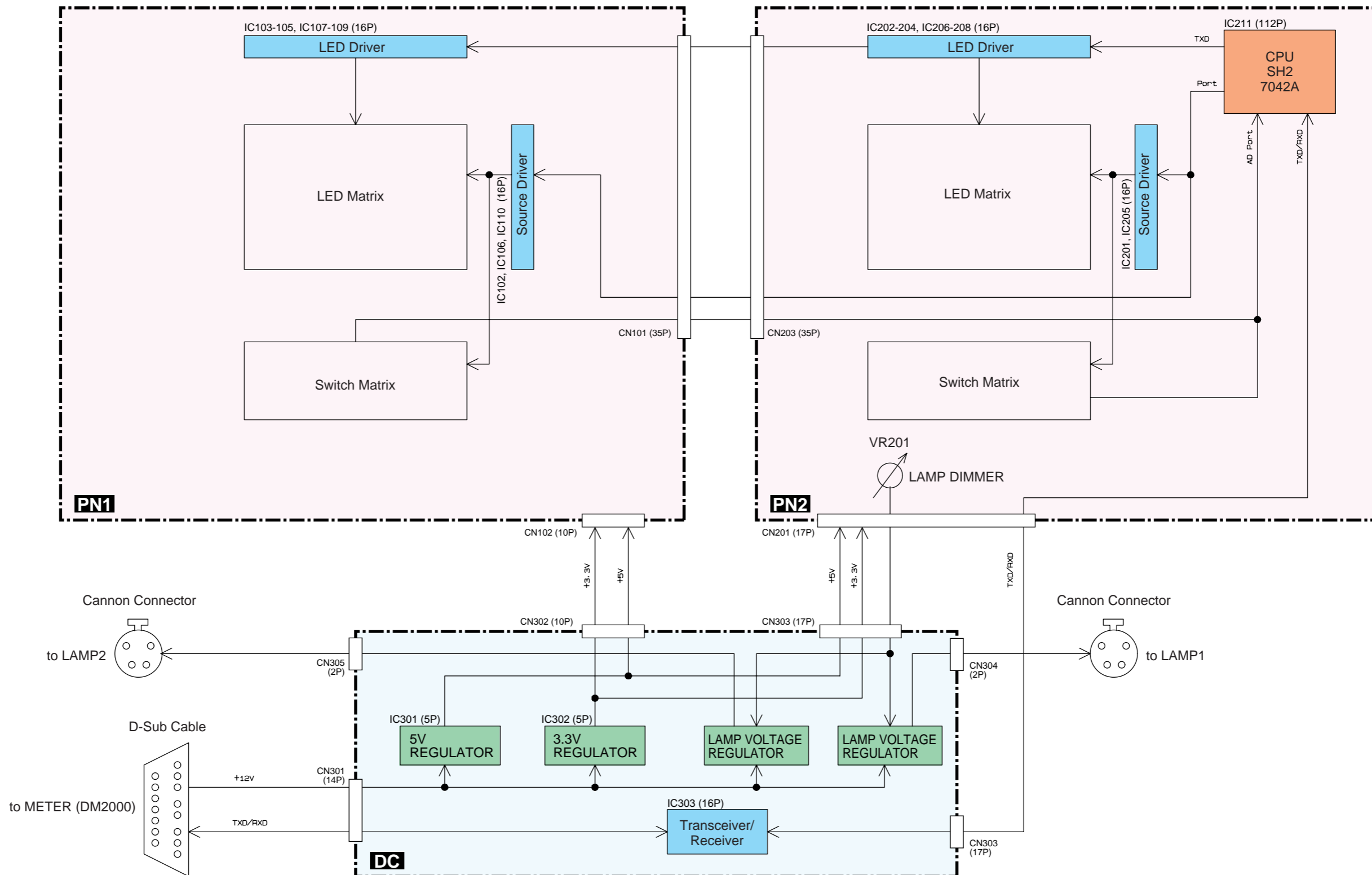
CIRCUIT DIAGRAM

■ CONTENTS

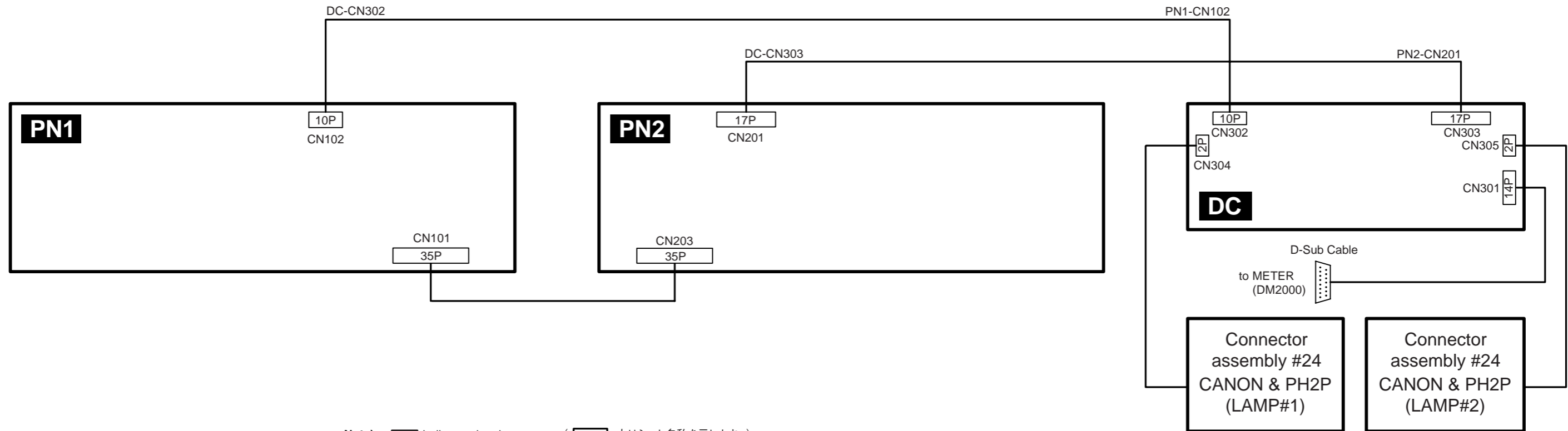
BLOCK DIAGRAM	3
OVERALL CONNECTOR CIRCUIT DIAGRAM	4
OVERALL CIRCUIT DIAGRAM	
DC	5
PNCOM (PN1) (002, 003)	6
PNCOM (PN2) (004~007)	8

Note: See parts list for details of circuit board component parts.

■ BLOCK DIAGRAM (MB2000)



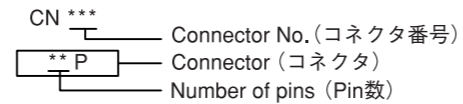
OVERALL CONNECTOR CIRCUIT DIAGRAM (MB2000)



Note) □ indicates the sheet name. (□内はシート名称を示します。)

Pin 1 of each connector, except for CN101 and 203, (CN101, 203以外全てのコネクタの1ピンは接続先 is connected to pin 1 of the destination connector. コネクタの1ピンに接続されます。CN101の1ピンは Pin 1 of CN101 is connected to pin 35 of CN203. CN203の35ピンに接続されます。)

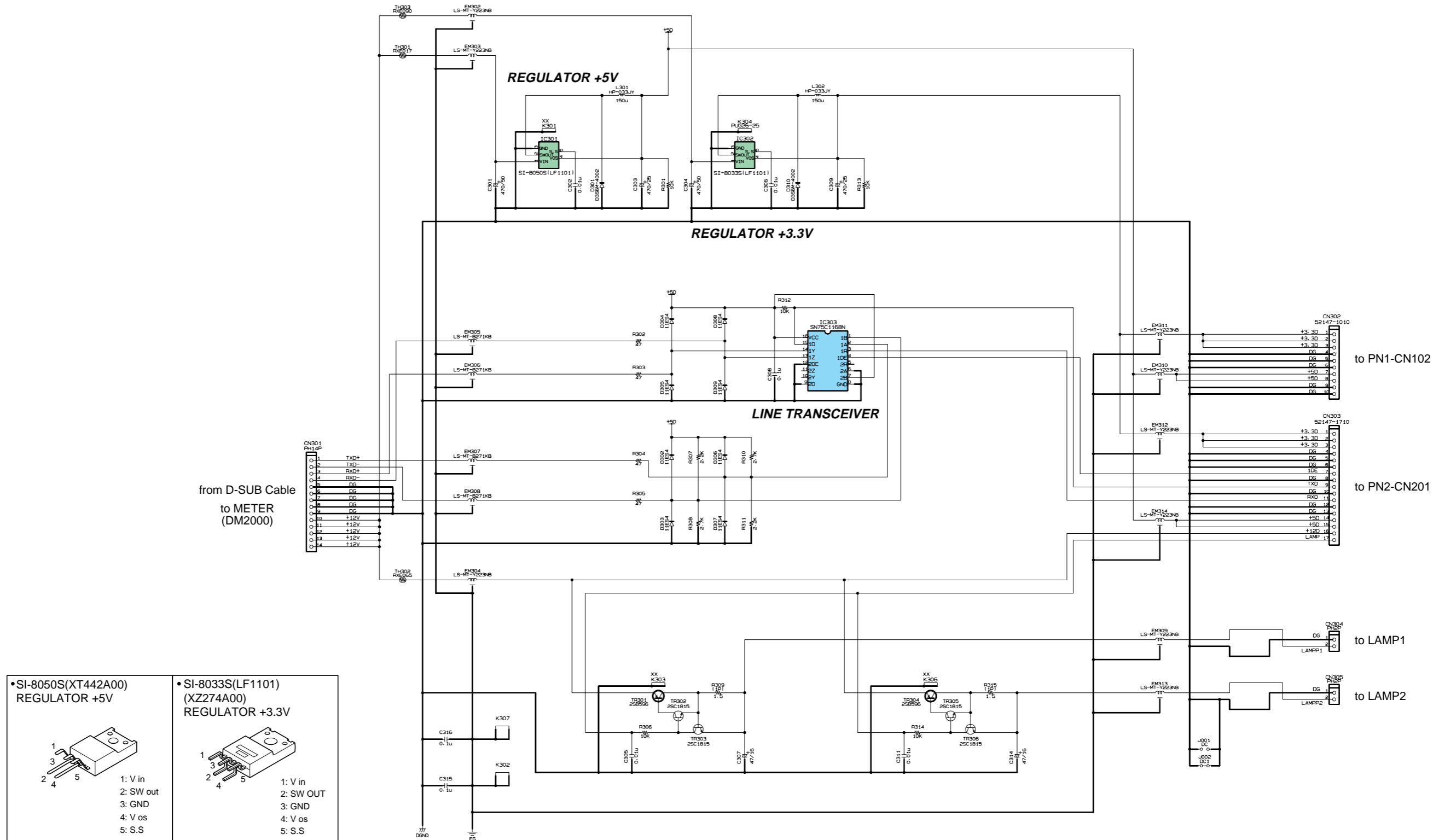
Connectors are identified by the following items. (コネクタの読み方については下記の通りとします。)

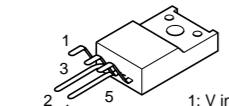
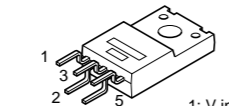


DC OVERALL CIRCUIT DIAGRAM (MB2000)

MB2000

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<p>•SI-8050S(XT442A00) REGULATOR +5V</p>  <p>1: V in 2: SW out 3: GND 4: V os 5: S.S</p>	<p>•SI-8033S(LF1101) (XZ274A00) REGULATOR +3.3V</p>  <p>1: V in 2: SW OUT 3: GND 4: V os 5: S.S</p>
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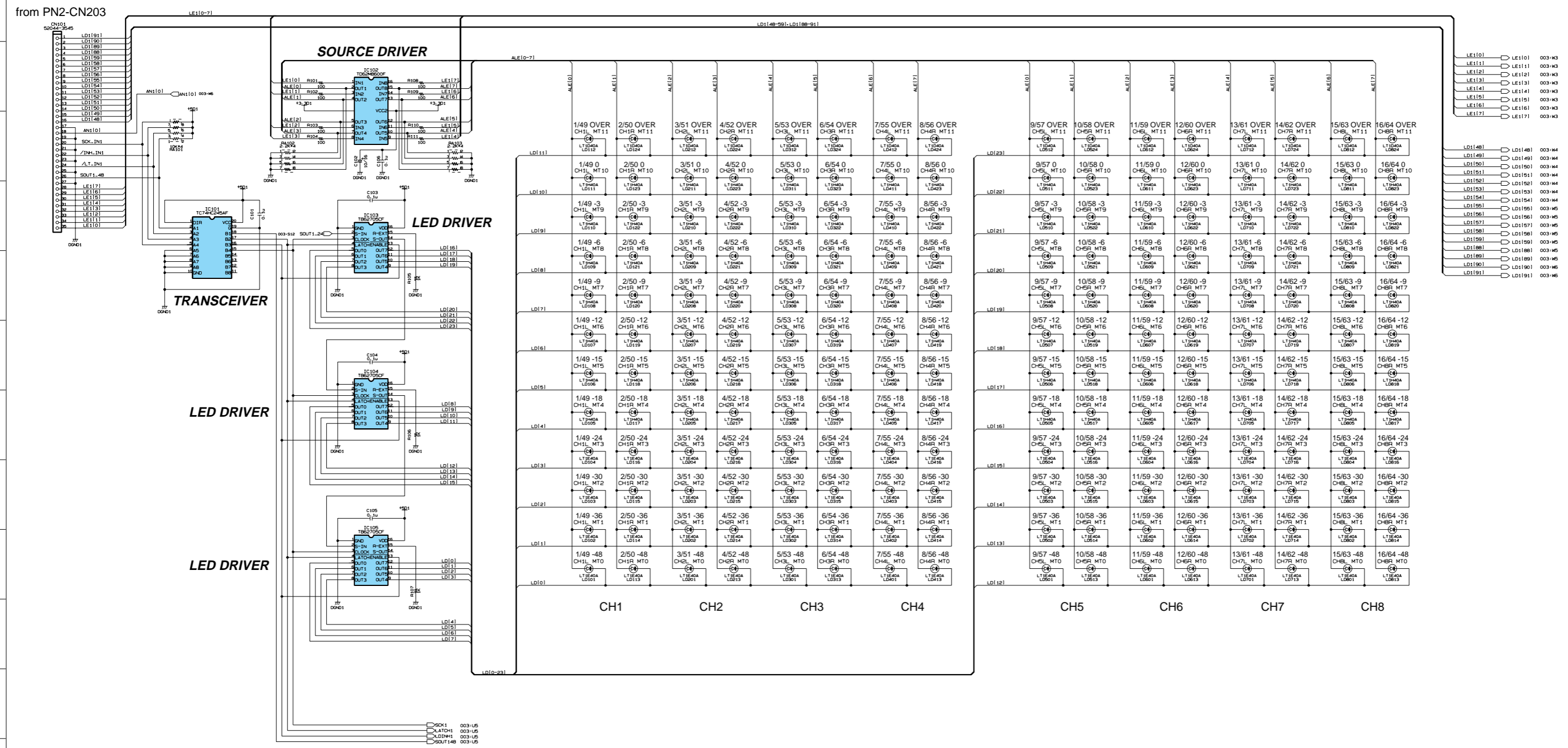
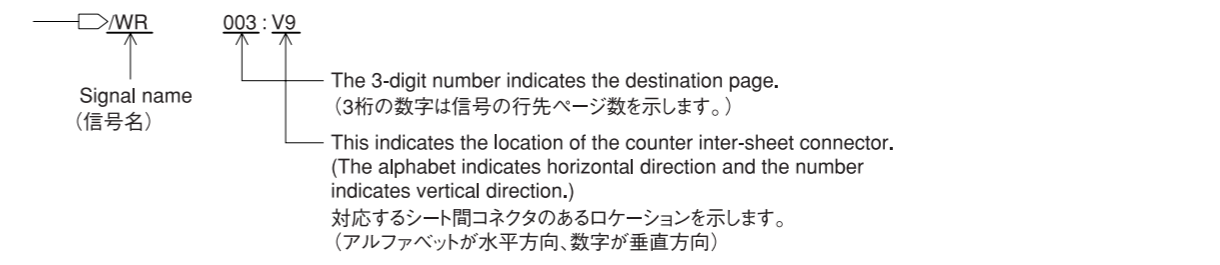
XX: not installed (実装しない)

PNCOM (PN1) OVERALL CIRCUIT DIAGRAM 002 (MB2000)

MB2000

Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

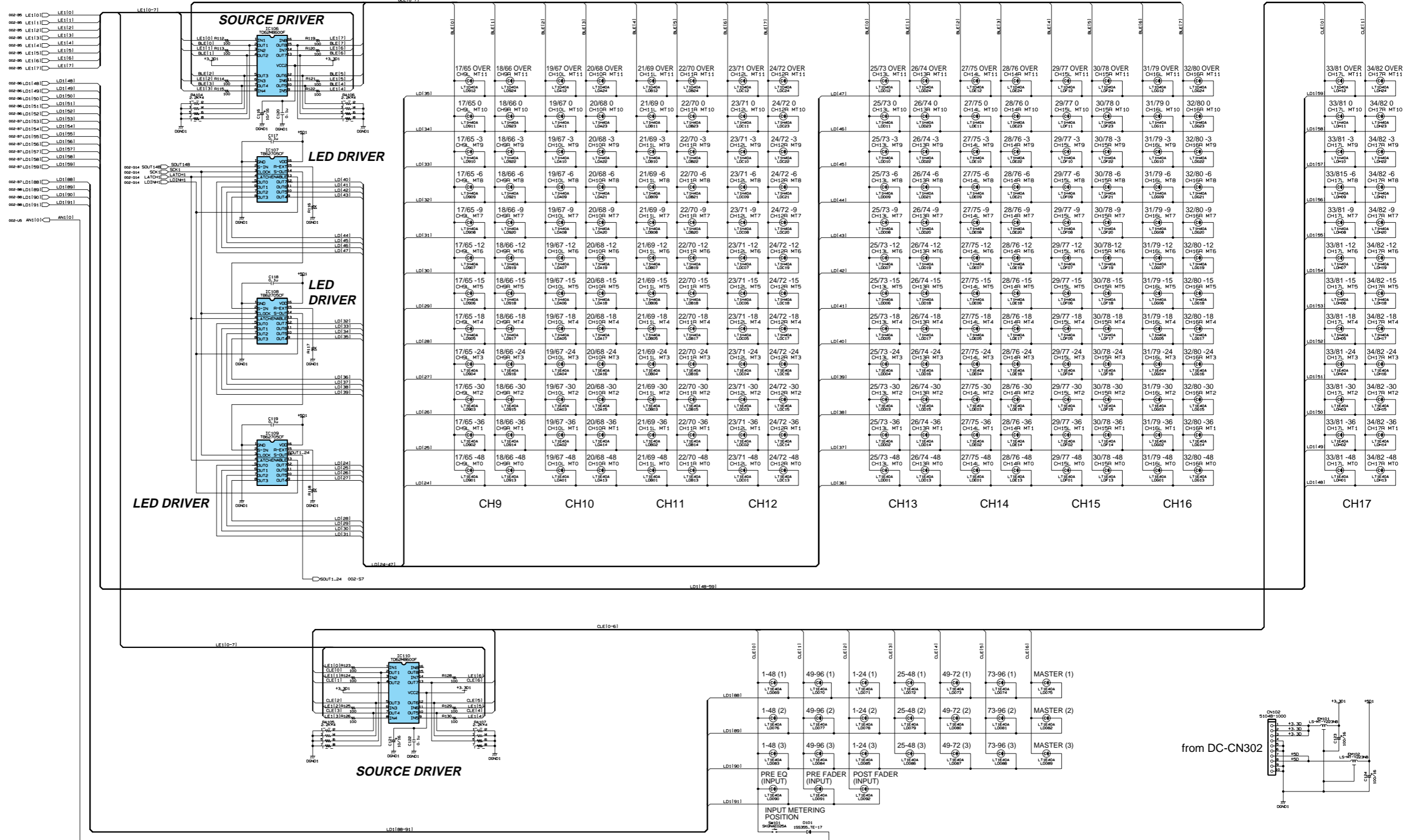
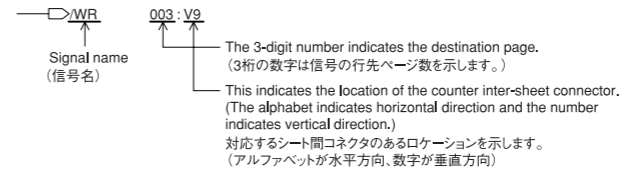


PNCOM (PN1) OVERALL CIRCUIT DIAGRAM 003 (MB2000)

MB2000

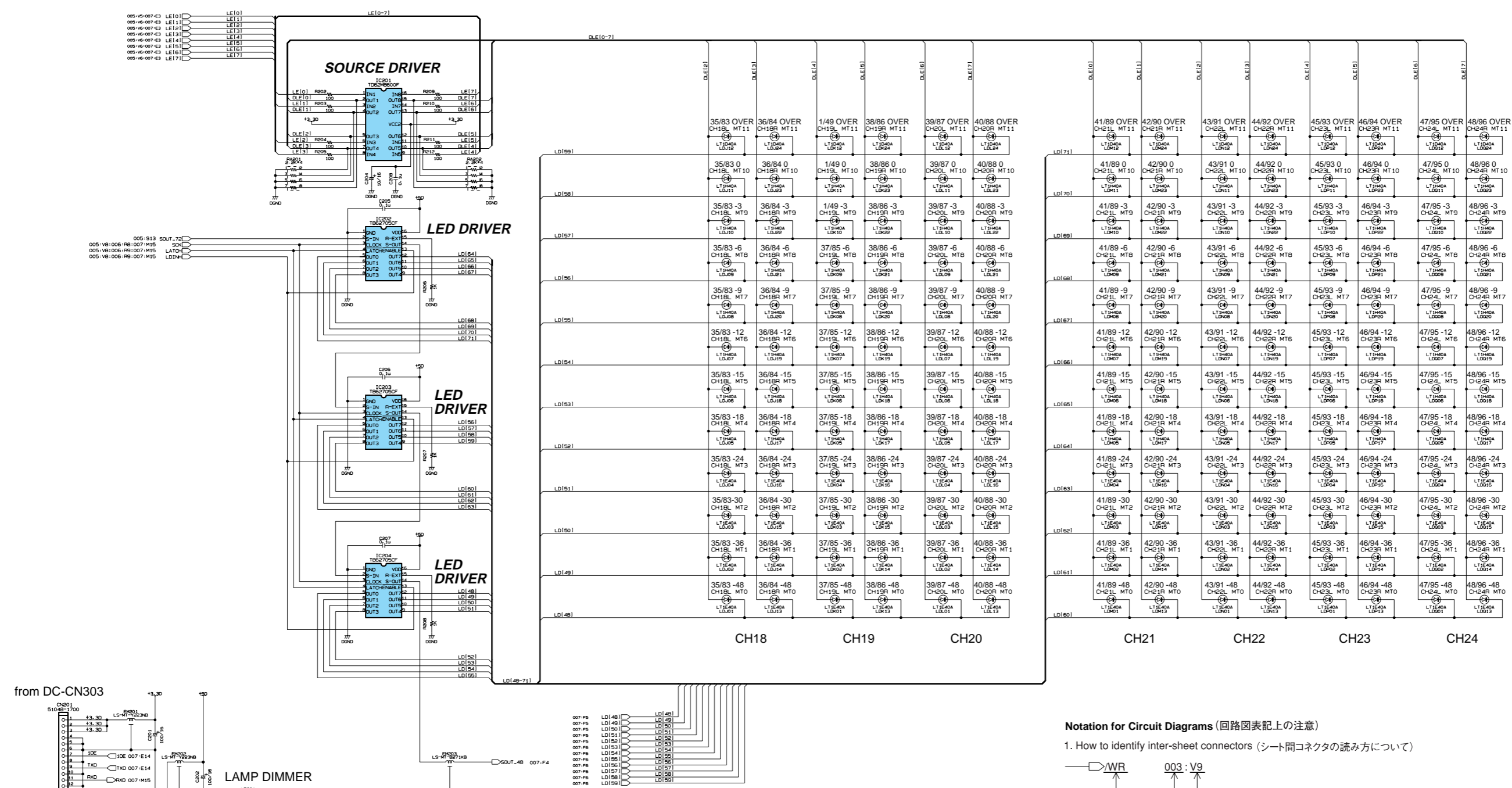
Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



PNCOM (PN2) OVERALL CIRCUIT DIAGRAM 004 (MB2000)

MB2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

WR
Signal name (信号名)

003:V9
The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)
This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.)
対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

PNCOM (PN2) OVERALL CIRCUIT DIAGRAM 005 (MB2000)

MB2000

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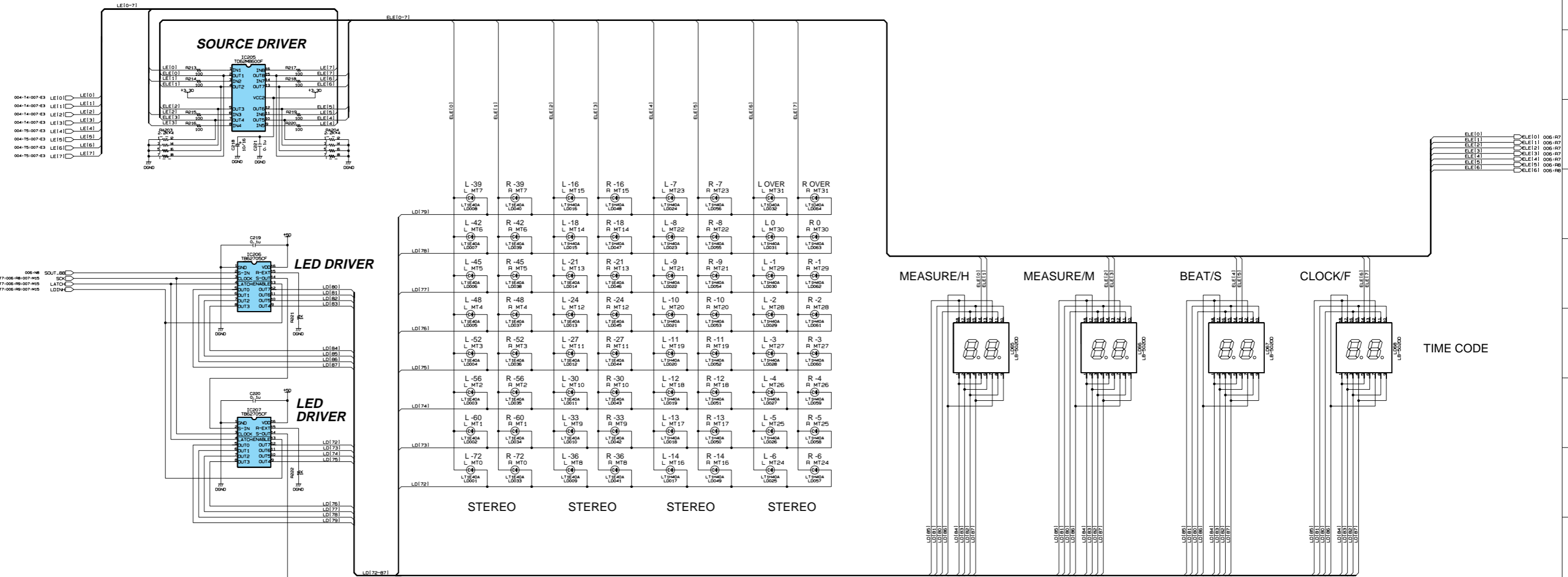
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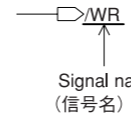
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Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)



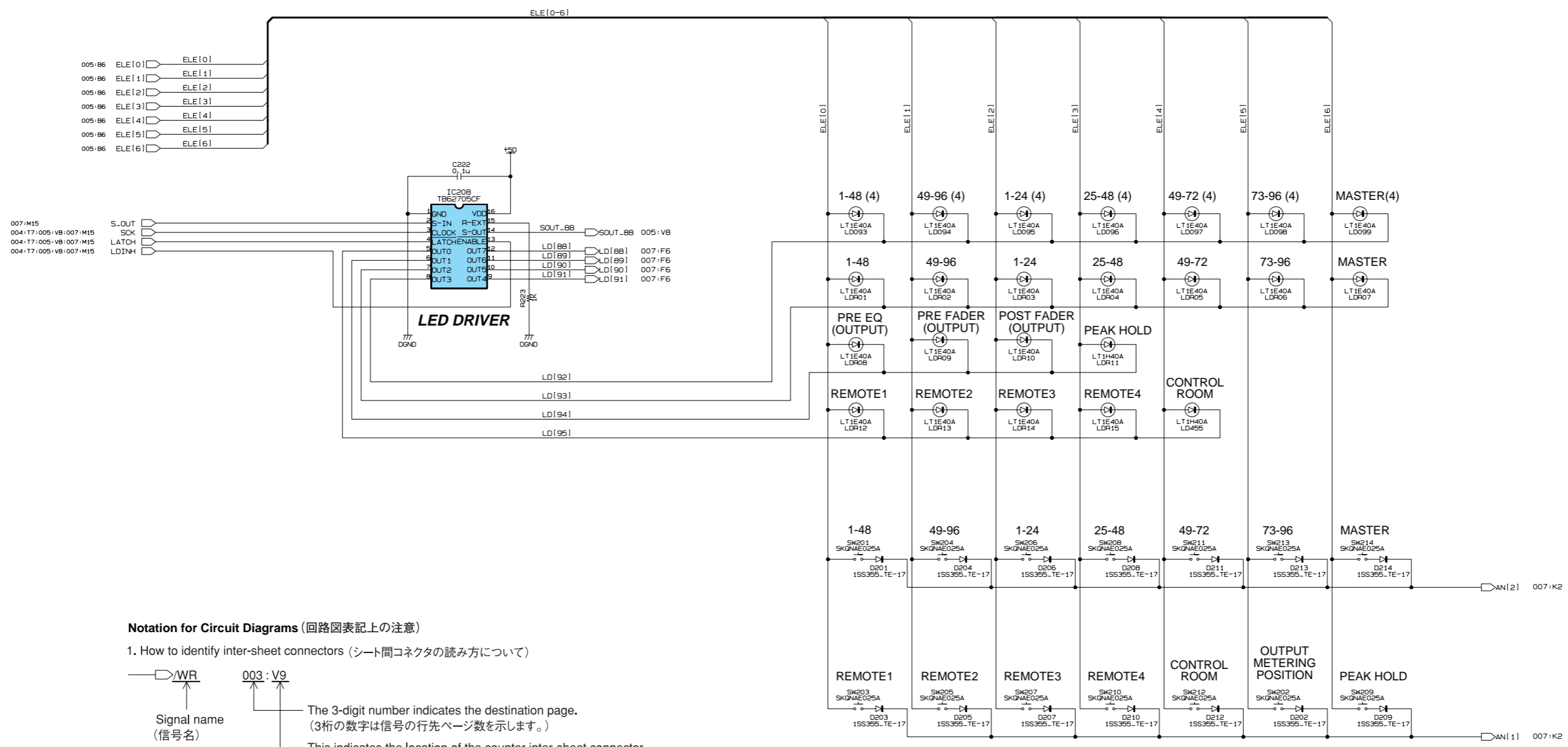
Signal name (信号名)

The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

PNCOM (PN2) OVERALL CIRCUIT DIAGRAM 006 (MB2000)

MB2000



Notation for Circuit Diagrams (回路図表記上の注意)

1. How to identify inter-sheet connectors (シート間コネクタの読み方について)

—▷/WR 003 : V9

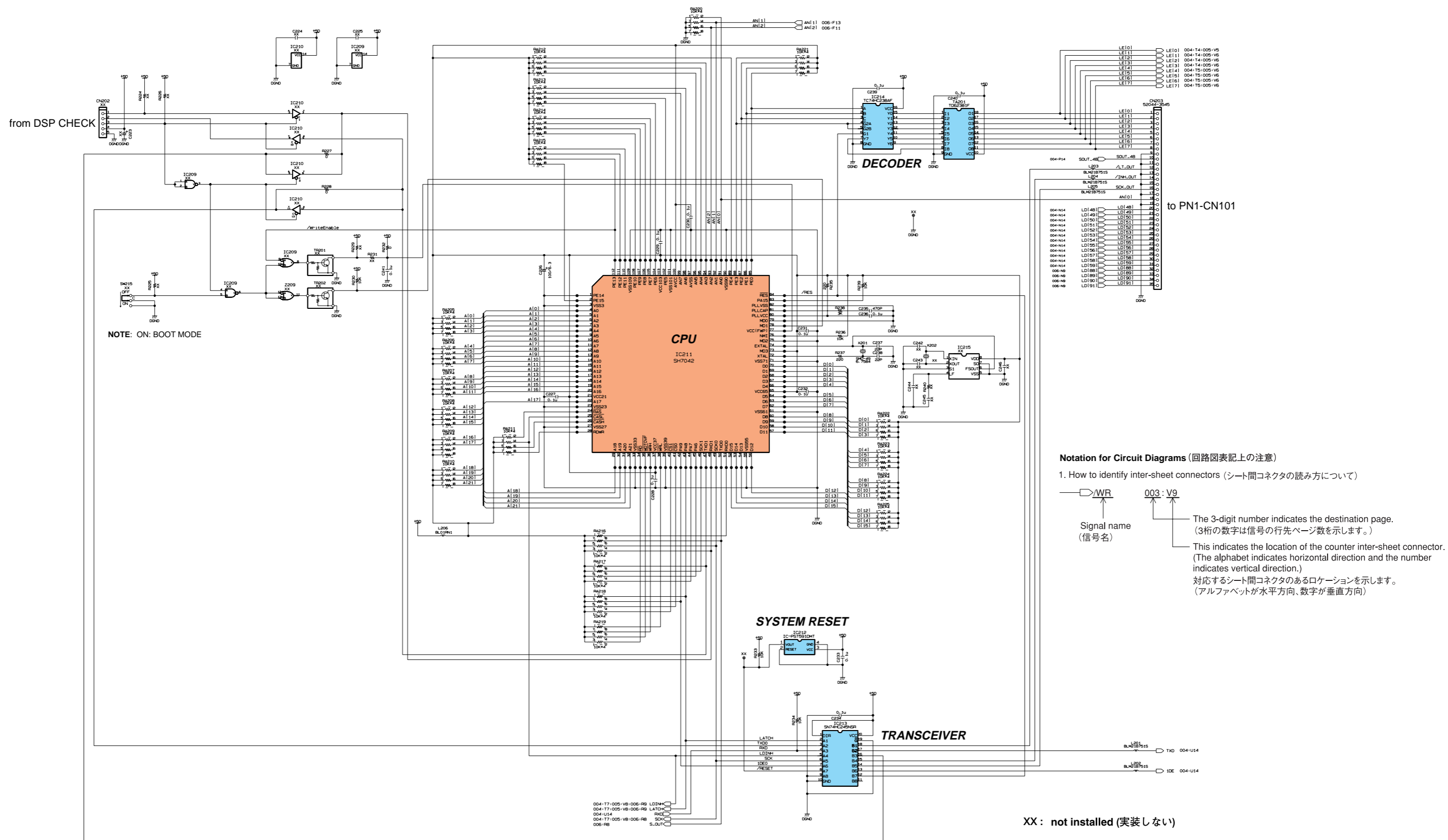
Signal name (信号名)

The 3-digit number indicates the destination page. (3桁の数字は信号の行先ページ数を示します。)

This indicates the location of the counter inter-sheet connector. (The alphabet indicates horizontal direction and the number indicates vertical direction.) 対応するシート間コネクタのあるロケーションを示します。(アルファベットが水平方向、数字が垂直方向)

PNCOM (PN2) OVERALL CIRCUIT DIAGRAM 007 (MB2000)

MB2000



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