

CONTROL SURFACE

CS1D

SERVICE MANUAL



■ CONTENTS

REVISED PAGE LIST	2-1
SPECIFICATIONS	3-1
PANEL LAYOUT	3-3
CONNECTOR CIRCUIT DIAGRAM	4
DISASSEMBLY PROCEDURE	15
LSI PIN DESCRIPTION	31
IC BLOCK DIAGRAM	39
CIRCUIT BOARDS	45
INSPECTION	98
TEST PROGRAM	103
BLOCK DIAGRAM	126
PARTS LIST	
CIRCUIT DIAGRAM	

■ REVISED PAGE LIST

ITEM	PAGE
SPECIFICATIONS	3-1
CONNECTOR CIRCUIT DIAGRAM	4,5,6,8,10 11,13,14,14a
DISASSEMBLY PROCEDURE	18~23,25
LSI PIN DESCRIPTION	32
IC BLOCK DIAGRAM	39, 40
CIRCUIT BOARDS	(45~97)
STO1,STO2,PS2HP	45
MTCPU	46, 47
MB22	48
MIO	49
CIO	50
STI	51
AEI	52
CNDS2,PNIS4	53
CNDS1,LAMPVR,LCDC	54
PNC2,PNM4	55
ADA2	56-a
MO1-2,MO2-2	56-b
CNDS3,LCDIF	57
PCIF	58,59
PNIS3,PNM3	60
MTG,MTI	61
EIF	64
CCAS	65

ITEM	PAGE
PNC1	66
CUTBVL2,HMVOLA2,HMVOLB2	68
DRL,DRN,DRS,PHNAB2	69
MT2	70
MT3	71
PNM1	72,73
PNOS4	75
MSCPU	76
PONOS2,PNOS5	78,79
PNOS3,PNOS6	80
PNOS1R	81
PNOS1L	82
PNOS1C	83
ISCPU	86
OSCPU	88
PNIS1	90,91
PNIS2	92,93
INCPU	94
PNI1	96,97
INSPECTION	98~102
TEST PROGRAM	103~125
BLOCK DIAGRAM	126~154

<PARTS LIST>

ITEM	PAGE
OVERALL ASSEMBLY	4,5
BOTTOM ASSEMBLY	6,7,15~18
PC ASSEMBLY	19
FRONT ASSEMBLY	20
SIDE PANEL (L,R) ASSEMBL	21
METER ASSEMBLY	25
LCD ASSEMBLY	27

ITEM	PAGE
CONTROL PANEL ASSEMBLY MASTER	28,30
PCMCIA ASSEMBLY	31
CONTROL PANEL ASSEMBLY OUT SEL	32,33,34,35,36
CONTROL PANEL ASSEMBLY IN SEL	37,38,39
CONTROL PANEL ASSEMBLY IN	40,41
ELECTRICAL PARTS	42~103

<CIRCUIT DIAGRAM>

ITEM	PAGE	ITEM	PAGE	
MB21 CIRCUIT DIAGRAM	002	3	CNDS3 CIRCUIT DIAGRAM	73
MB22 CIRCUIT DIAGRAM		8	ADA2 CIRCUIT DIAGRAM	1/2
MIO CIRCUIT DIAGRAM	002	10		2/2
	003	11	PNC2 CIRCUIT DIAGRAM	1/2
	004	12		2/2
CIO1 CIRCUIT DIAGRAM	2/2	14	PCIF CIRCUIT DIAGRAM	002
STI CIRCUIT DIAGRAM	2/2	16		003
AEI CIRCUIT DIAGRAM	005	20		004
STO1 CIRCUIT DIAGRAM		21		005
MO1-2 CIRCUIT DIAGRAM		26		006
MO2-2 CIRCUIT DIAGRAM		27		007
PNC1 CIRCUIT DIAGRAM	002	28		008
	003	29	PS2HP CIRCUIT DIAGRAM	86
	005	31	MT1 CIRCUIT DIAGRAM	005
	006	32	MT2,MT3 CIRCUIT DIAGRAM	006
	008	34	LAMPVR CIRCUIT DIAGRAM	96
	009	35	DRS,DRN,DRL CIRCUIT DIAGRAM	97
	010	36	LCDIF CIRCUIT DIAGRAM	98
EIF,CCAS CIRCUIT DIAGRAM	002	38	MSCPU CIRCUIT DIAGRAM	008
	003	39		009
	006	42	PNM1 CIRCUIT DIAGRAM	010
	007	43	PNOS1L CIRCUIT DIAGRAM	009
	008	44	PNOS1C CIRCUIT DIAGRAM	2/2
CMU1 CIRCUIT DIAGRAM	003	46	PNOS1R CIRCUIT DIAGRAM	004
	004	47	PNOS2 CIRCUIT DIAGRAM	007
	005	48		008
	006	49	HMOVLA2, HMOVLB2 CIRCUIT DIAGRAM	150
	008	51	TB1-2, TB1CAN2 CIRCUIT DIAGRAM	151
	009	52	CUTBVL2 CIRCUIT DIAGRAM	152
CMU2 CIRCUIT DIAGRAM	003	54	OSCPU CIRCUIT DIAGRAM	005
	005	56		010
	006	57	CRDC1 CIRCUIT DIAGRAM	002
	007	58		003
MTG CIRCUIT DIAGRAM		59	ISCPU CIRCUIT DIAGRAM	005
MTCPU CIRCUIT DIAGRAM	002	60	PNIS1 CIRCUIT DIAGRAM	005
	003	61		008
	004	62	PNIS2 CIRCUIT DIAGRAM	003
	006	64		005
	007	65		008
	008	66	PHNAB2 CIRCUIT DIAGRAM	195
	009	67	PNI1 CIRCUIT DIAGRAM	008
CNDS1 CIRCUIT DIAGRAM		69	INCPU CIRCUIT DIAGRAM	006
CNDS2 CIRCUIT DIAGRAM	1/3	70	PS2000 CONNECTOR DIAGRAM	213, 214
	2/3	71		

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.

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 håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

VARNING

Explosionsfara vid felaktigt batteribyte.

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

Kassera använt batteri enligt fabrikantens instruktion.

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.

Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.

Hävitätä käytetty 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.

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 WHAT 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

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

SPECIFICATIONS

Number of scene memories	990
Sampling Frequency	Internal: 48 kHz/44.1 kHz External: 44.1 kHz -10 %–48 kHz +6 %
Fader	64 x 100 mm motorized
Total Harmonic	Less than 0.02 % 20 Hz–20 kHz @ +24 dB into 600 Ω
Distortion	Less than 0.007 % 1kHz @ +24 dB into 600 Ω CH IN to STEREO OUT
AD converter	28 bit 128 times over sampling (Signal Delay 1.5 msec @ Fs=48 kHz)
DA converter	27 bit 128 times over sampling (Signal Delay 1.2 msec @ Fs=48 kHz)
Frequency Response	+1, -2 db 20 Hz–20 kHz @ +10 db into 600 Ω
Dynamic Range (maximum level to noise level)	120 dB typ. AD+DA (“LMY-” AD card to DA card)
Hum & Noise (Rs=150 W) (Input Gain=Max.)	-128 dB typ. Equivalent Input Noise. (20 Hz–20 kHz)
InputSection CH1–96, ST IN1–8	
De-emphasis/DC cut	
Phase	Normal/Reverse
Patch	Input, Direct out (pre eq/pre fader/post fader/post on), Insert in/out (pre eq/post eq/pre comp/pre delay/pre fader)
Attenuation	-96–0 dB (dB step)
High pass filter	20 Hz–600 Hz (60 point) slope -6 dB / -12 dB / -18 dB/oct
Equalizer	4 band PEQ (Low/shelving, Low-mid, High-mid, High/Shelving/LPF) F: 20 Hz–20 kHz (120 point), Gain: + -18 dB (0.5 step), Q: 0.1–10 (41 point)
Gate	Gate/Ducking selectable 4 key-n bus
Comp	Comp/Expander/compander selectable 4 key-in bus
Delay	Delay time (0–250 ms, 0.02 msec step)
Fader	100 mm motorized, -∞, -90– +10 dB (128 step/100 mm), Interpolation 24bit (16,777,216 steps)
On/Off	
Cue/Solo	On/Off (PFL/AFL)
Pna	127 positions (L=1–63, center, R=1–63)

Stereo/group assign	STEREO/MIX 1–48 (FIX/VARI selectable)
Metering	pre att peak, comp/gate gain reduction, pre att/pre gate/pre fader/post fader/post on selectable with Peak-Hold
Output section STEREO A, B, MIX 1–48, MATRIX 1–24	
Patch	Output, Insert in/out
Equalizer	6 band PEQ (Sub Low/HPF/Shelving, Low, Low-mid, Mid, High-mid, High/LPF/Shelving) (Bypass switch for each band) (Parameters are same as input EQ)
Comp	Comp/Expander/compander selectable, 4 key-in bus
Delay	Delay time (0–1000 ms, 0.02 msec step)
On/Off	
Cue/Solo	On/Off (PFL/AFL)
Balance	Stereo A, B, Paired Mix & Matrix
Mono	Stereo B
to stereo assign	from Mix output
to matrix assign	from Mix 1–48/stereo A, B
Metering	comp gain reduction, pre eq/pre fader/post fader/ post on selectable with Peak-Hold
Dither	On/Off, Word length 16–24 bit (DIO8 only)
Other mixer section	
Effects	Internal patchable eight multi-effects units
Graphic equalizer	Internal patchable twenty four 31-band graphic equalizers, each with 4 notch filters
Oscillator	sine/pink/burst noise
Talk back	From console 1 & 2
Communication In	Including ducking control
12 DCA	with DCA mute, DCA cue/solo, 9–12 are selectable for output
12 Direct Memory Recall/Mute Group	
Monitor A	2tr in 1, 2, ST A, B, user define selectable with delay (max 750 msec)
Monitor B	2tr in 1, 2, ST A, B, moni A, user define selectable
2tr in 1–6	1 & 2: Analog/Coaxial/AES/EBU selectable, 3–6: AES/EBU (with Sampling Rate Converter for digital input)

IMPORTANT NOTICE FOR THE UNITED KINGDOM

Connecting the Plug and Cord

IMPORTANT. The wires in this main lead are coloured in accordance with the following code:

BLUE: NEUTRAL
BROWN: LIVE

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

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

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

Be certain that neither core is connected to the earth terminal of the three pin plug.

ANALOG INPUT CHARACTERISTICS

Input Terminals	GAIN	Actual Load Impedance	For Use With Nominal	Input level		Connector
				Nominal	Max. before clip	
TALKBACK IN 1, 2 *3. *5.	-44 dB	3 k Ω	50–600 Ω Mics & 600 Ω Lines	-44 dB (4.89 mV)	-30 dB (24.5 mV)	XLR-3-31 type (Balanced) *1.
	+10 dB			+10 dM (2.45 V)	+24 dB (12.3 V)	
2-TRACK IN ANALOG 1, 2 *4.	–	10 k Ω	600 Ω Lines	+10 dB (2.45 V)	+24 dB (12.3 V)	XLR-3-31 type (Balanced) *1.

*1. TALKBACK IN and 2-TRACK IN ANALOG XLR-3-31 type connectors are balanced. (1=GND, 2=HOT, 3=COLD)

*2. 0 dB is referenced to 0.775 Vrms.

*3. AD converters are 24 bit linear, 128 times oversampling.

*4. AD converters are 28 bit 128 times oversampling.

*5. +48 V DC (Phantom power) is individually supplied to each TALKBACK connectors via 6.8 k ohms resistors.

ANALOG OUTPUT CHARACTERISTICS

Input Terminals	Actual Load Impedance	For Use With Nominal	Input level		Connector
			Nominal	Max. before clip	
MONITOR OUT A, B	150 Ω	600 Ω Lines	+10 dB (2.45 V)	+24 dB (12.3 V)	XLR-3-32 type (Balanced) *1.
CUE OUT	150 Ω	600 Ω Lines	+10 dM (2.45 V)	+24 dB (12.3 V)	XLR-3-32 type (Balanced) *1.
PHONES A1, B1	15 Ω	8 Ω Phones 40 Ω Phones	75 mW	150 mW	Stereo Phone Jack (Unbalanced) *2.
			65 mW	150 mW	
PHONES A2, B2	15 Ω	8 Ω Phones 40 Ω Phones	75 mW	150 mW	Stereo Phone Jack (Unbalanced) *2.
			65 mW	150 mW	

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

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

*3. 0 dB is referenced to 0.775 Vrms.

*4. DA converters are 24 bit linear, 128 times oversampling.

DIGITAL INPUT&OUTPUT CHARACTERISTICS

INPUT/OUTPUT TERMINALS	FORMAT	LEVEL	CONNECTOR	
			TYPE	QUANTITY
DIGITAL I/O ENGINE A1, A2 ENGINE B1, B2 CONSOLE 1, 2	–	RS422	D-SUB Half Pitch Connector 68P (Female)	6
2-TRACK IN DIGITAL AES/EBU 1–6	AES/EBU	RS422	XLR-3-31 type Connector	6
2-TRACK IN DIGITAL COAXIAL 1–2	IEC60958	0.5 Vpp/75 Ω	PIN JACK	2
STEREO OUT DIGITAL AES/EBU A, B	AES/EBU	RS422	XLR-3-32 type Connector	2
STEREO OUT DIGITAL COAXIAL A, B	IEC60958	0.5 Vpp/75 Ω	PIN JACK	2
WORD CLOCK IN	–	TTL/75 Ω (ON/OFF)	BNC Connector	1
WORD CLOCK OUT	–	TTL/75 Ω	BNC Connector	1
SVGA OUT	SVGA	2 Vpp	High density D-sub 15pin Connector (Female)	1
KEYBOARD	PS2	TTL	Mini DIN 6pin Connector	2
MOUSE	PS2	TTL	Mini DIN 6pin Connector	2
NUMKEY	PS2	TTL	Mini DIN 6pin Connector	1
REMOTE RS-422	–	RS422	D-sub 9pin Connector (Female)	1
MIDI IN, OUT, THRU	MIDI	–	DIN 5pin Connector	3
TIME CODE IN	SMPTE	Nominal-10 dB/10 k Ω	XLR-3-31 type Connector	1
GPI	–	C-MOS IN, Open collector out	D-SUB 25pin Connector (Female)	1
PC CONTROL USB	–	0 V–3.3 V	B Type USB Connector	1
PC CONTROL RS-232-C	–	RS-232-C	D-SUB 9pin Connector (Male)	1

INPUT/OUTPUT TERMINALS	FORMAT	LEVEL	CONNECTOR	
			TYPE	QUANTITY
CONTROL I/O ENGINE A1IN, 1OUT, 2IN, 2OUT ENGINE B1IN, 1OUT, 2IN, 2OUT CONSOLE 1IN, 1OUT, 2IN, 2OUT	–	-0.225 V--1.825 V	BNC Connector 68P	12
DC POWER INPUT	–	DC 60 V	KN-27-32S 27pin Connector (Female)	2

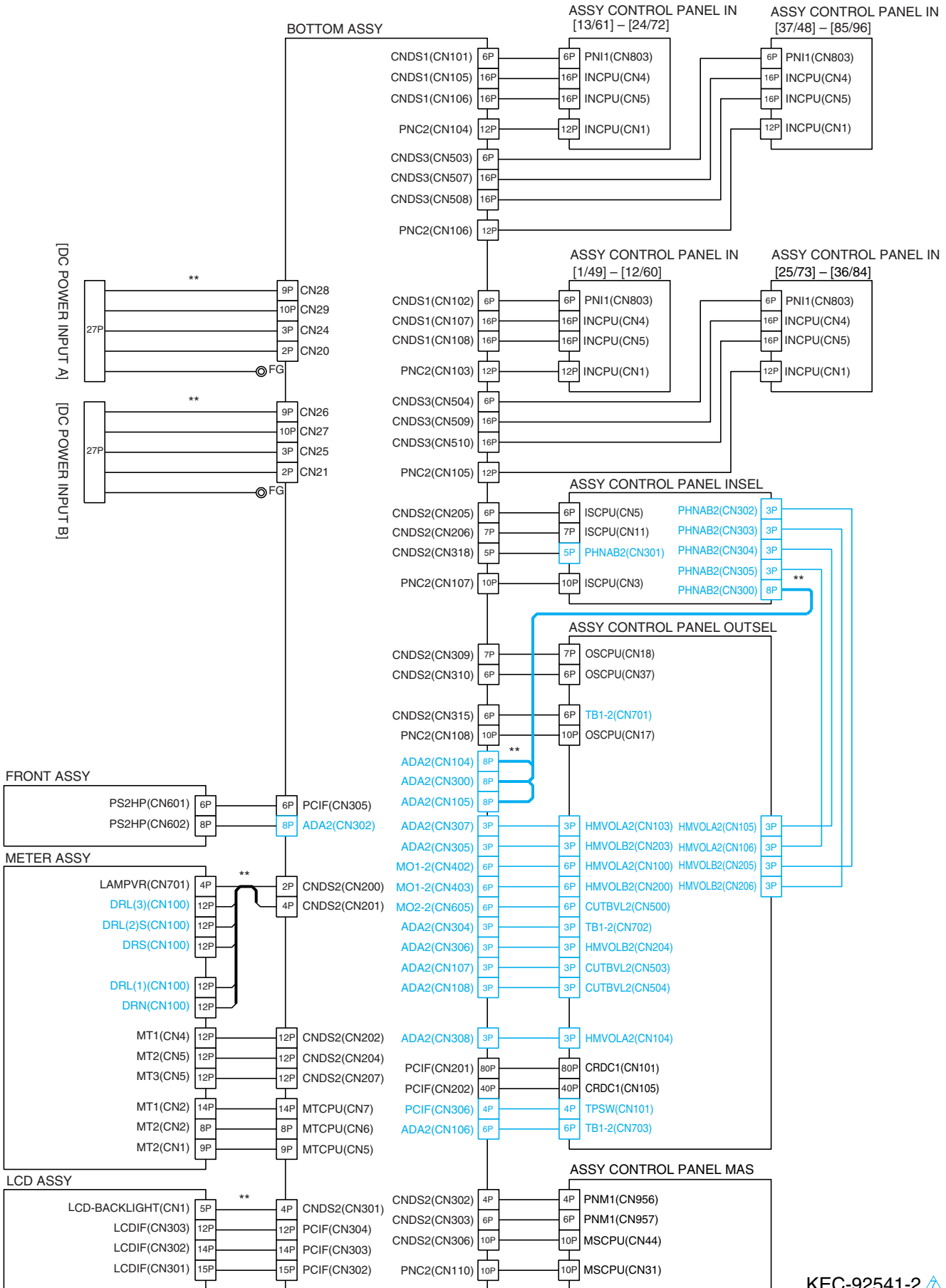
LCD Display 800 x 600 Dots Graphic color LCD with backlit
PCMCIA card slot for external memory

PW1D Power Supply to the CS1D

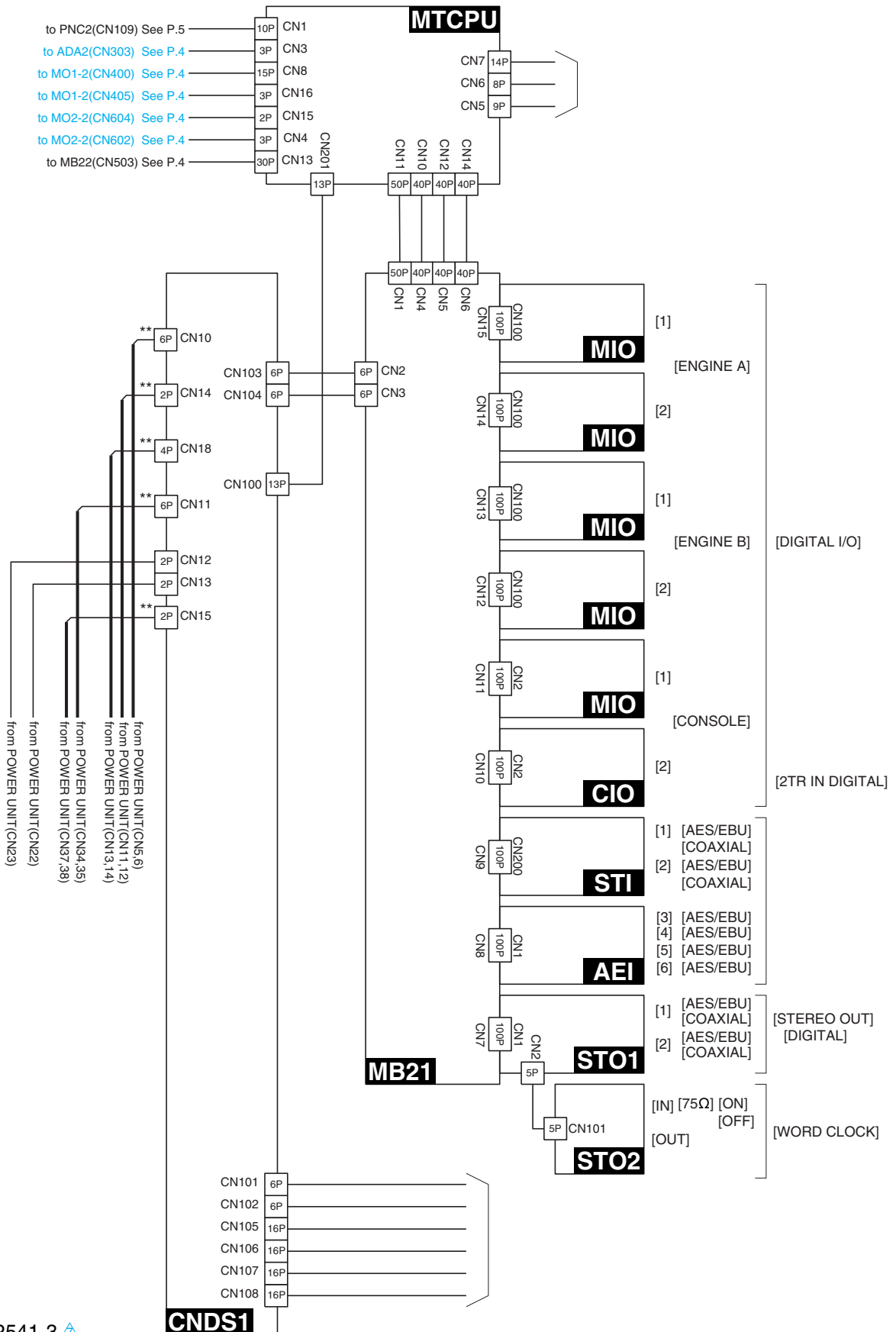
■ PANEL LAYOUT

Note: See operation manual for details.

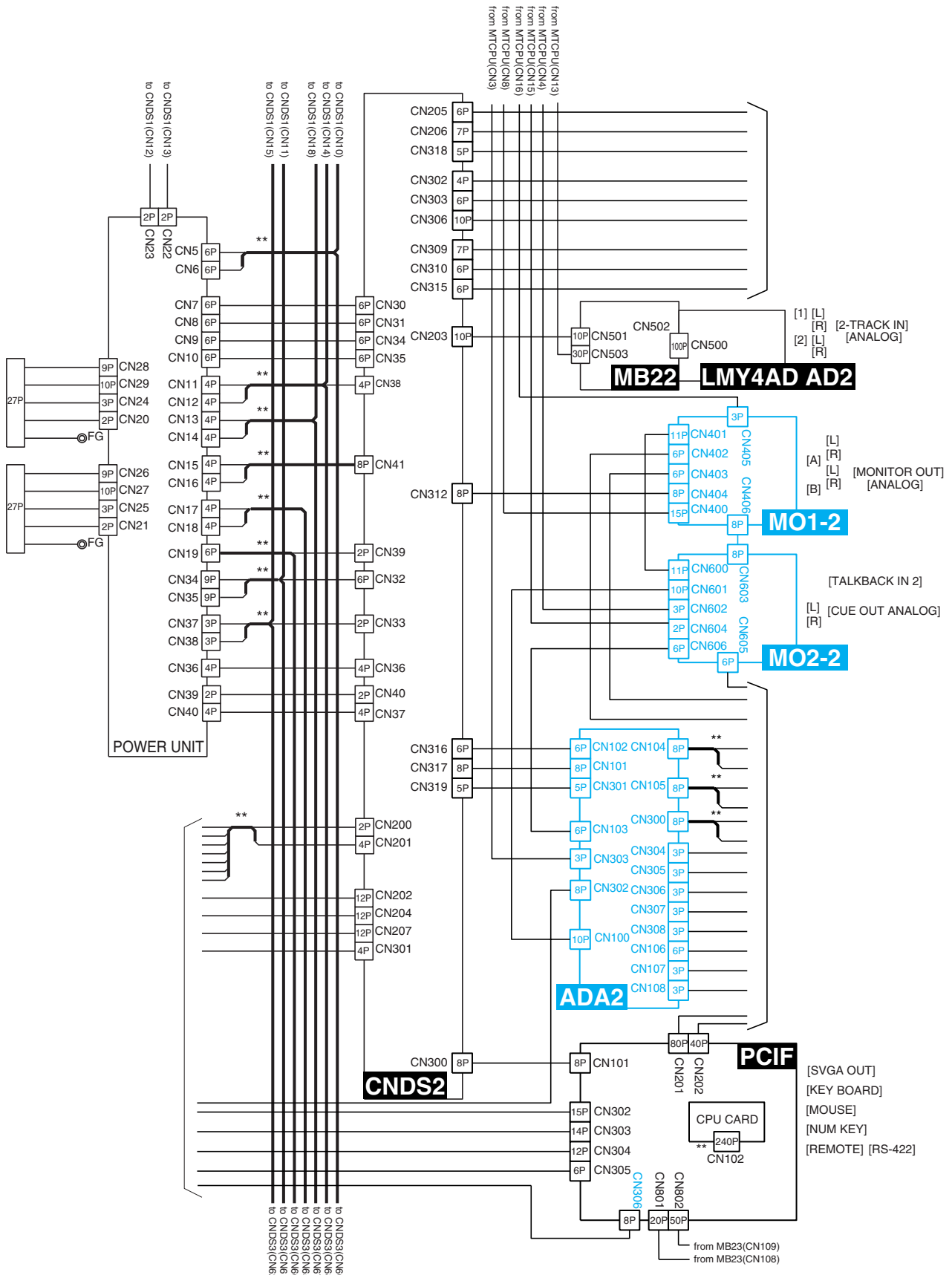
CONNECTOR CIRCUIT DIAGRAM



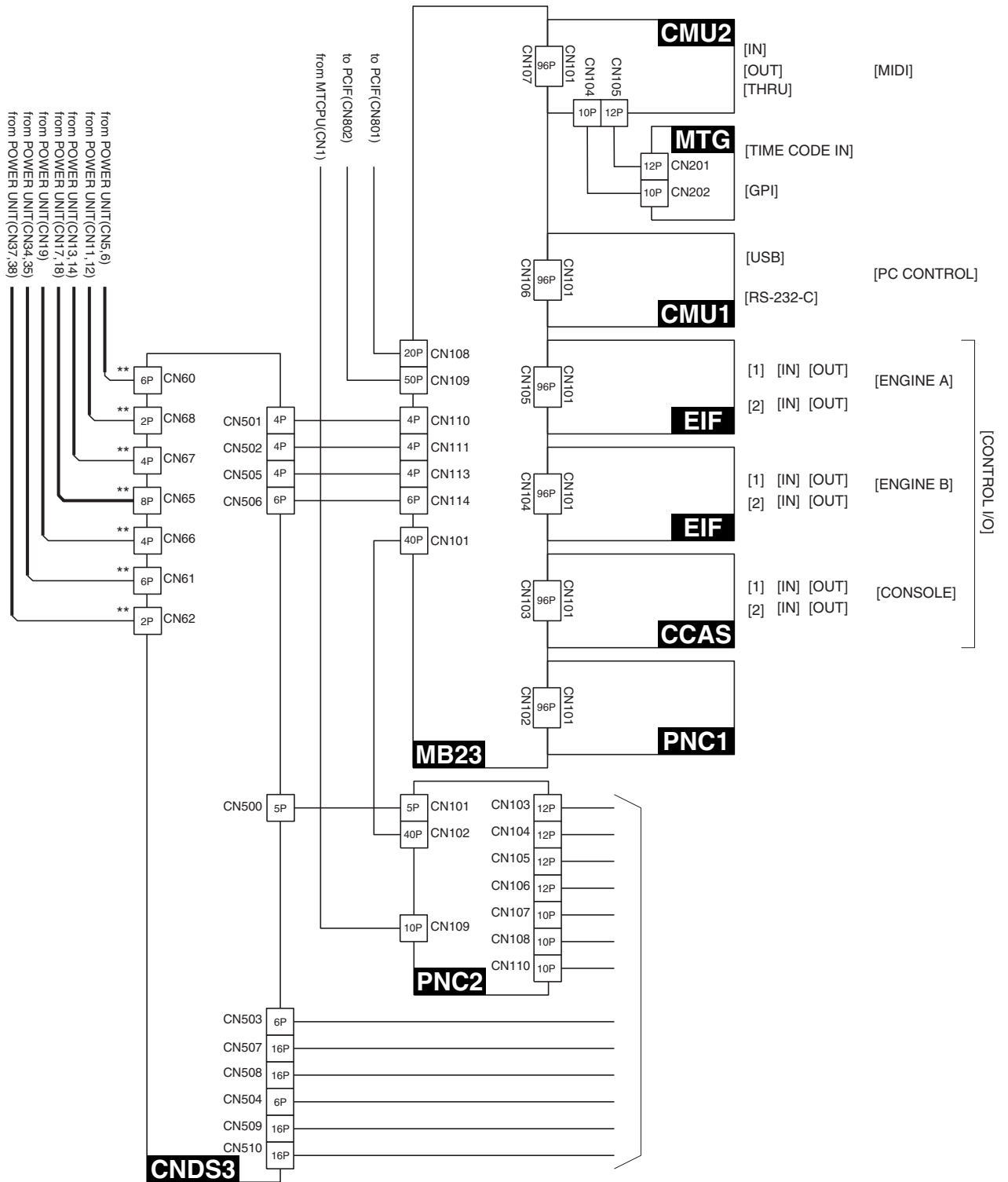
• BOTTOM ASSY (UNDER THE LEFT-SIDE ASSY CONTROL PANEL IN)



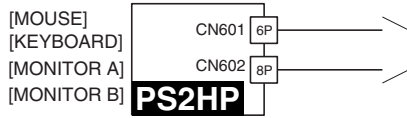
• BOTTOM ASSY(UNDER THE ASSY CONTROL PANEL MAS/OUTSEL/INSEL)



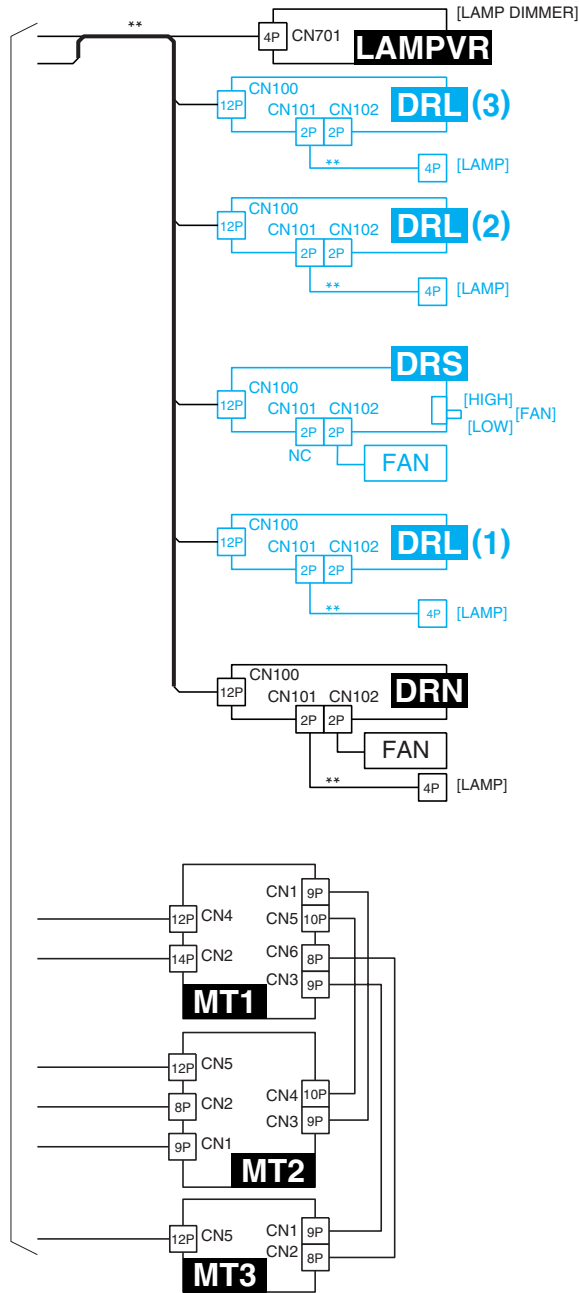
• BOTTOM ASSY(UNDER THE RIGHT-SIDE ASSY CONTROL PANEL IN)



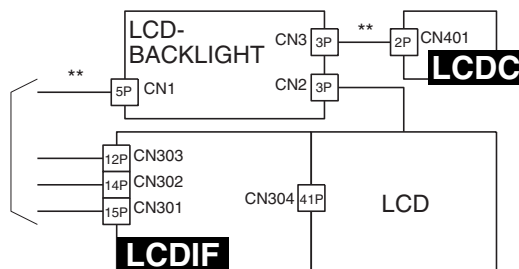
• FRONT ASSY



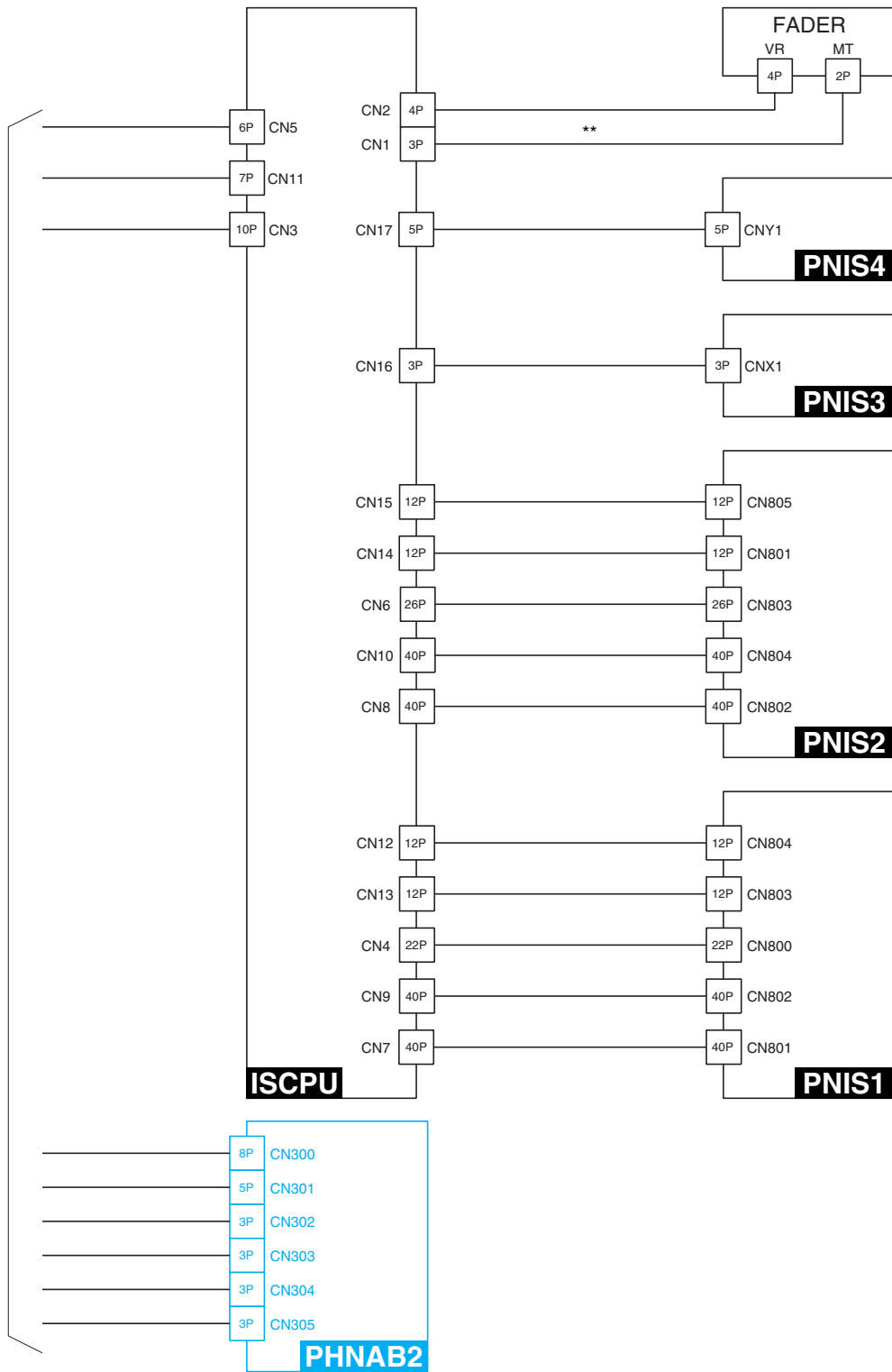
• METER ASSY



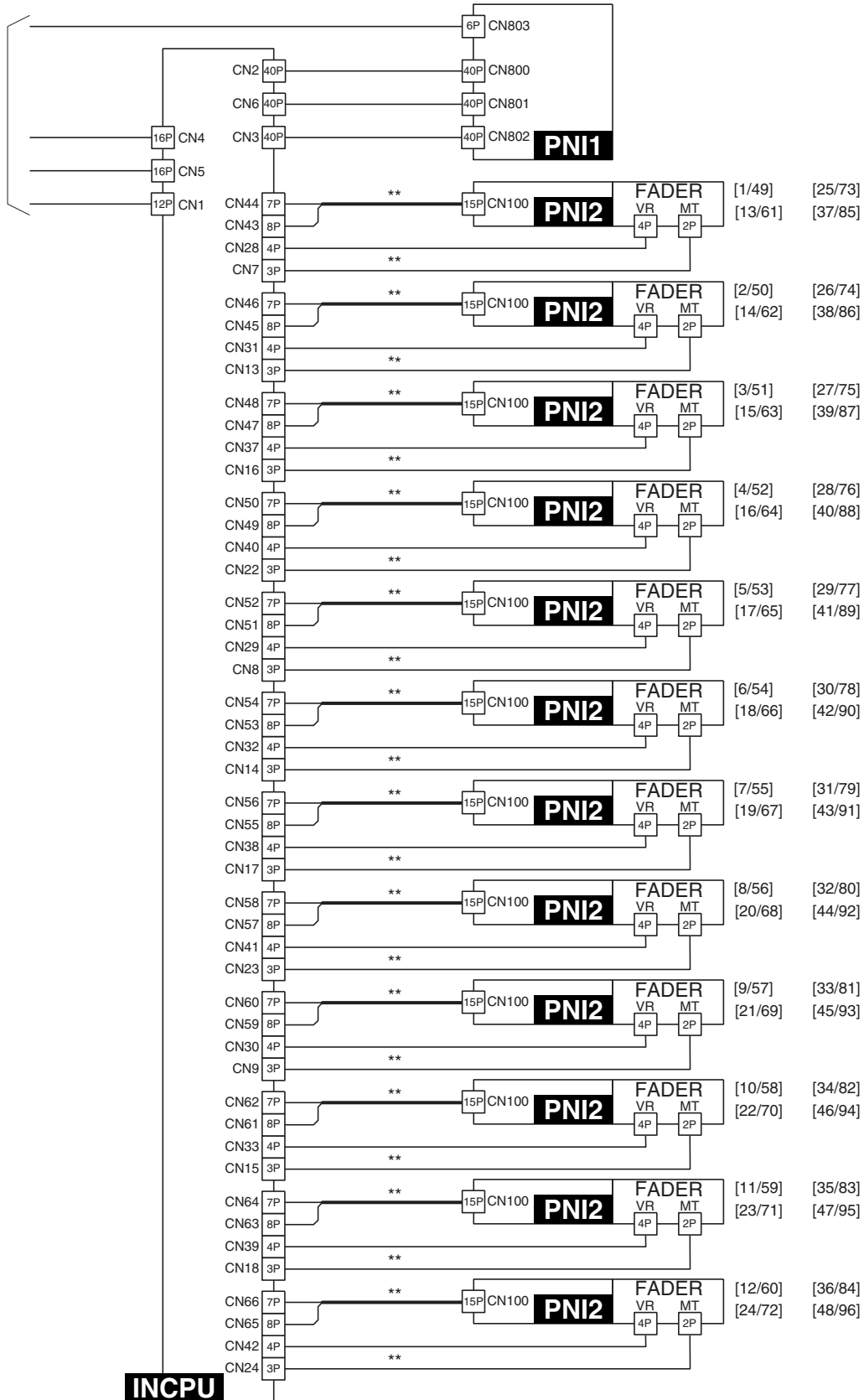
• LCD ASSY



• ASSY CONTROL PANEL INSEL



• ASSY CONTROL PANEL IN

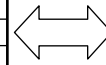


INCPU

Circuit Board	CN No.	Pin	Pin No.
---------------	--------	-----	---------

PW1D – Bottom Assembly

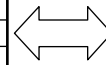
PW1D (INPUT A)		27	1,2,4-10
			11-20
			22-24
			26-27
			3



Circuit Board	CN No.	Pin	Pin No.
---------------	--------	-----	---------

POWER UNIT	CN28	9	1-9
	CN29	10	1-10
	CN24	3	1-3
	CN20	2	1-2
	FG	1	

PW1D (INPUT B)		27	1,2,4-10
			11-20
			22-24
			26-27
			3



POWER UNIT	CN26	9	1-9
	CN27	10	1-10
	CN25	3	1-3
	CN21	2	1-2
	FG	1	

Bottom Assembly – Meter Assembly

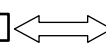
CS CNDS2	CN200	2	1-2
	CN201	4	1-4
CS DRL(2)	CN100	12	1,3,5,7,8,11 2,4,6,9,10,12
CS LAMPVR	CN701	4	3
CS DRL(1)	CN100	12	3,5,7,8,11
			1
			2,4,6,9,10,12



CS LAMPVR	CN701	4	1-2
CS DRL(3)	CN100	12	3,7,8,11
			2,4,6,9,10,12
CS DRS	CN100	12	1,3,5,7,8,11
			2
CS LAMPVR	CN701	4	4,6,9,10,12
CS LAMPVR	CN701	4	4
CS DRN	CN100	12	1,3,5,7,8,11

Bottom Assembly – LCD Assembly

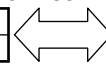
CS CNDS2	CN301	4	1-4
----------	-------	---	-----



LCD-BACKLIGHT	CN1	5	1-4
---------------	-----	---	-----

Bottom Assembly – Assembly Control Panel Inset

CS ADA2	CN104	4	1-4
		4	5-8

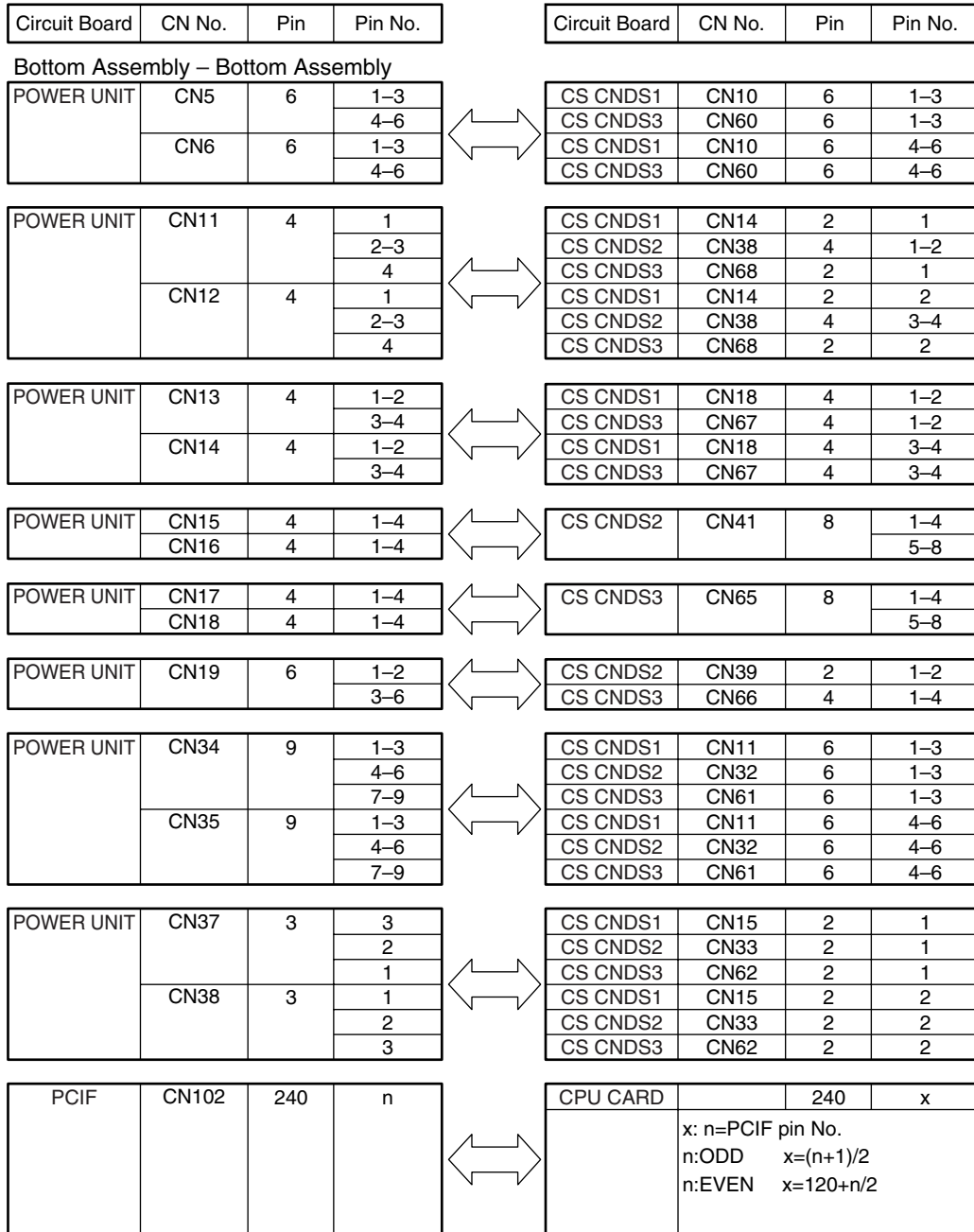


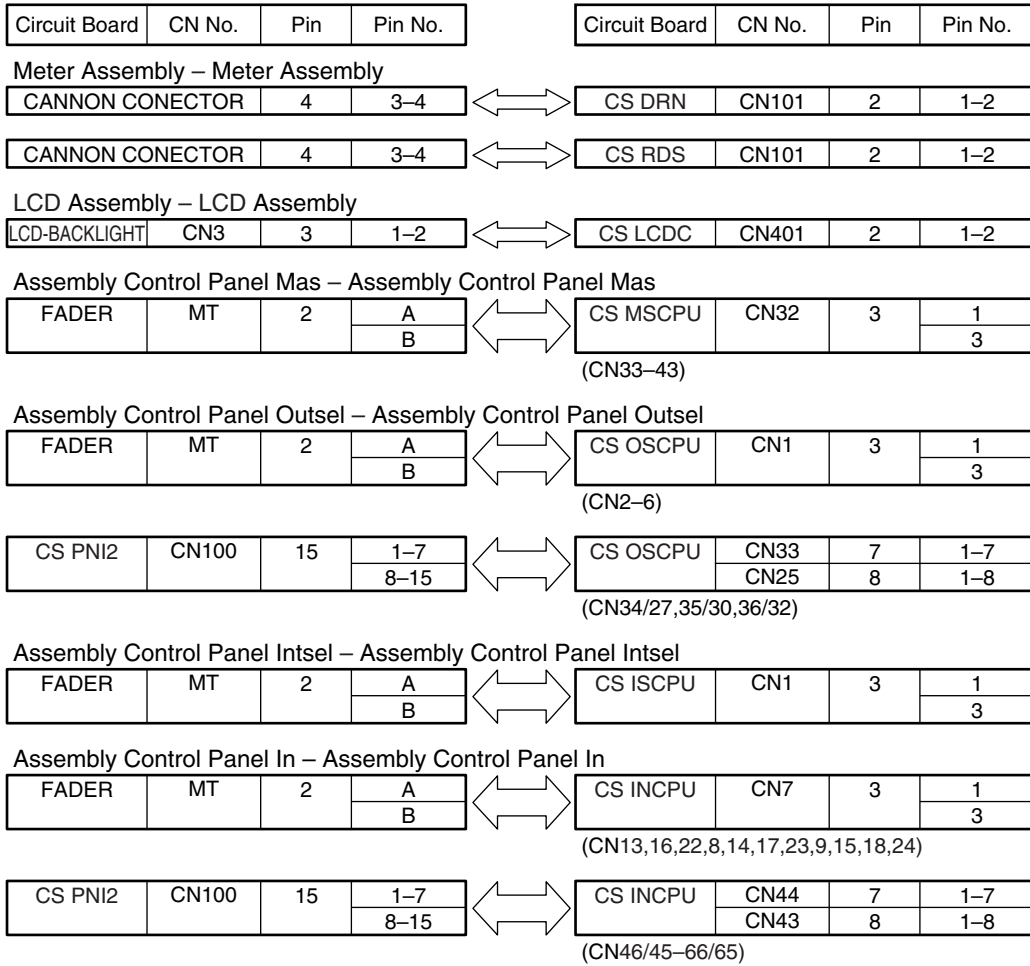
CS PHNAB2	CN300	4	5-8
CS ADA2	CN300	4	5-8

CS ADA2	CN105	4	1-4
		4	5-8



CS PHNAB2	CN300	4	1-4
CS ADA2	CN300	4	1-4





■ DISASSEMBLY PROCEDURE

1. Control Panel Assembly

- 1-1 Remove the following screws, each name plate, under plate. The control panel assembly can then be removed.
(Fig. 1)

Parts and Assembly	Ref. No.	Screw	QTY
Name plate MASTER	680D	Bolt 3.0x6 MFZNBL (V4750100)	3
Name plate IN SEL	680C	Bolt 3.0x6 MFZNBL (V4750100)	2
Name plate OUT SEL	680E	Bolt 3.0x6 MFZNBL (V4750100)	3
Name plate IN12	680A	Bolt 3.0x6 MFZNBL (V4750100)	3
Name plate IN24	680B	Bolt 3.0x6 MFZNBL (V4750100)	3
Name plate IN36	680F	Bolt 3.0x6 MFZNBL (V4750100)	3
Name plate IN48	680G	Bolt 3.0x6 MFZNBL (V4750100)	3
Under plate, meter Upper-L	680H	Bolt 3.0x6 MFZNBL (V4750100)	5
Under plate, meter Upper-R	680I	Bolt 3.0x6 MFZNBL (V4750100)	6
Control panel MASTER	680M	Bolt 3.0x6 MFZNBL (V4750100)	11
Control panel IN SEL	680L	Bolt 3.0x6 MFZNBL (V4750100)	10
Control panel OUT SEL	680N	Bolt 3.0x6 MFZNBL (V4750100)	10
Control panel IN12	680J	Bolt 3.0x6 MFZNBL (V4750100)	6
Control panel IN24	680K	Bolt 3.0x6 MFZNBL (V4750100)	6
Control panel IN36	680P	Bolt 3.0x6 MFZNBL (V4750100)	6
Control panel IN48	680O	Bolt 3.0x6 MFZNBL (V4750100)	6

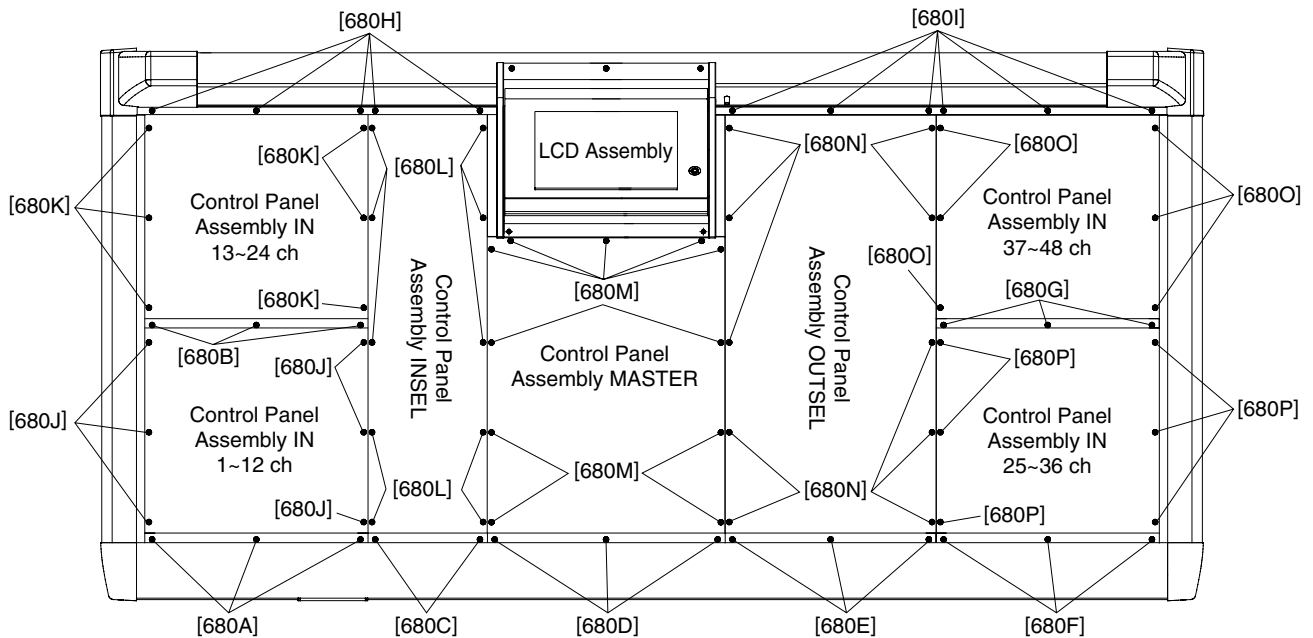


Fig. 1

2. CS MSCPU Circuit Board

- 2-1 Remove the control panel assembly (MASTER).
(See Procedure 1.)
- 2-2 Remove the eleven (11) screws marked [170]. The CS MSCPU circuit board can then be removed. (Fig. 2)

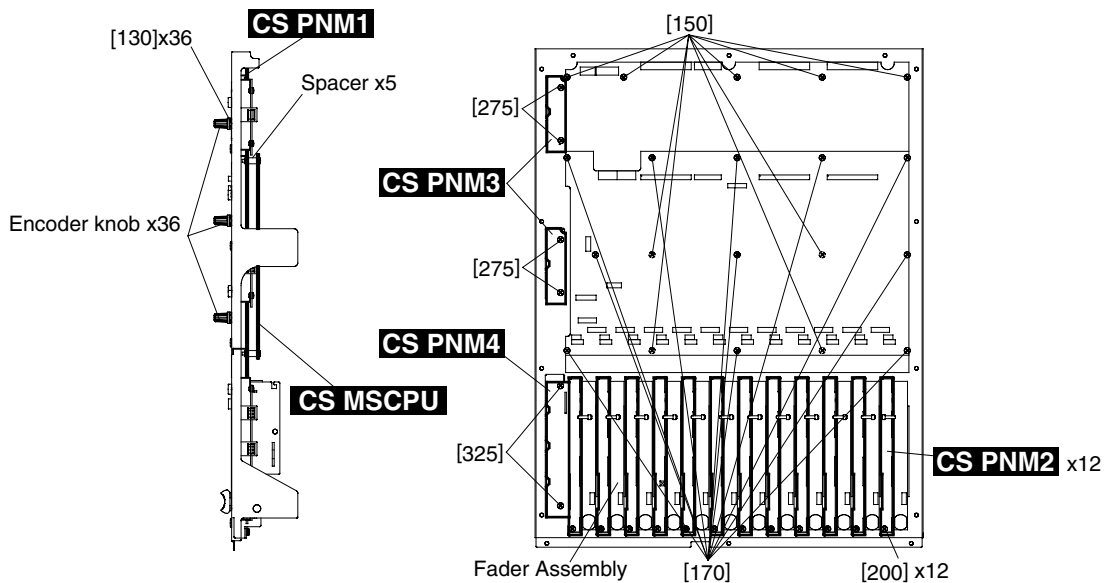
3. CS PNM1 Circuit Board

- 3-1 Remove the control panel assembly (MASTER).
(See Procedure 1.)
- 3-2 Remove the CS MSCPU circuit board. (See Procedure 2.)
- 3-3 Remove the thirty-six (36) encoder knobs. (Fig. 2, Fig. 3)
- 3-4 Remove the thirty-six (36) hexagonal nuts marked [130].
(Fig. 2)
- 3-5 Remove the five (5) spacers. (Fig. 2)

- 3-6 Remove the nine (9) screws marked [150]. The CS PNM1 circuit board can then be removed.
- 3-7 Remove the switch knobs marked [A] on the circuit board. (Fig. 3)

4. Fader Assembly, CS PNM2 Circuit Board

- 4-1 Remove the control panel assembly (MASTER). (See Procedure 1.)
- 4-2 Remove the fader knob. (Fig. 3)
- 4-3 Remove the two (2) screws marked [220]. The Fader assembly can then be removed. (Fig. 2, Fig. 3)
- 4-4 Remove the screw marked [200]. The CS PNM2 circuit board can then be removed. (Fig. 2)
- 4-5 Remove the switch knobs marked [B] on the circuit board. (Fig. 3)



- [130]: Hexagonal Nut 7.0 10 x 2 MFZN2BL (ES200180)
- [150]: Bind Head Screw 3.0 x 6 MFZN2BL (EG330360)
- [170]: Bind Head Screw 3.0 x 6 MFZN2BL (EG330360)
- [200]: Bind Head Screw 3.0 x 6 MFZN2BL (EG330360)
- [275]: Bind Head Screw 3.0 x 6 MFZN2BL (EG330360)
- [325]: Bind Head Screw 3.0 x 6 MFZN2BL (EG330360)

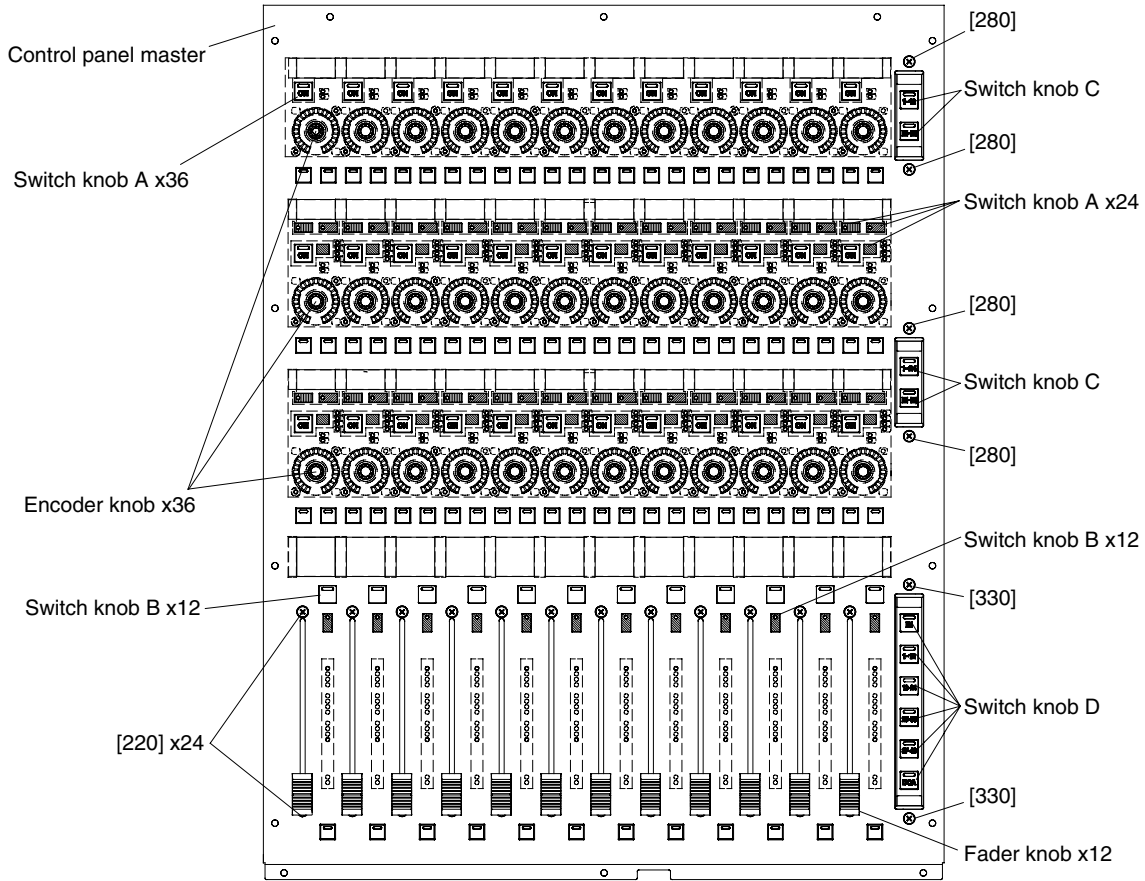
Fig. 2

5. CS PNM3 Circuit Board

- 5-1 Remove the control panel assembly (MASTER). (See Procedure 1.)
- 5-2 Remove the two (2) screws marked [280]. (Fig. 3)
- 5-3 Remove the two (2) switch knobs marked [C]. (Fig. 3)
- 5-4 Remove the two (2) screws marked [275]. The CS PNM3 circuit board can then be removed. (Fig. 2)

6. CS PNM4 Circuit Board

- 6-1 Remove the control panel assembly (MASTER). (See Procedure 1.)
- 6-2 Remove the two (2) screws marked [330]. (Fig. 3)
- 6-3 Remove the six (6) switch knobs marked [D]. (Fig. 3)
- 6-4 Remove the two (2) screws marked [325]. The CS PNM4 circuit board can then be removed. (Fig. 2)



[220]: Flat Head Screw 3.0 x 6 MFZN2BL (EC030030)
 [280]: Flat Head Screw 3.0 x 16 MFZN2BL (VL668700)

[330]: Flat Head Screw 3.0 x 16 MFZN2BL (VL668700)

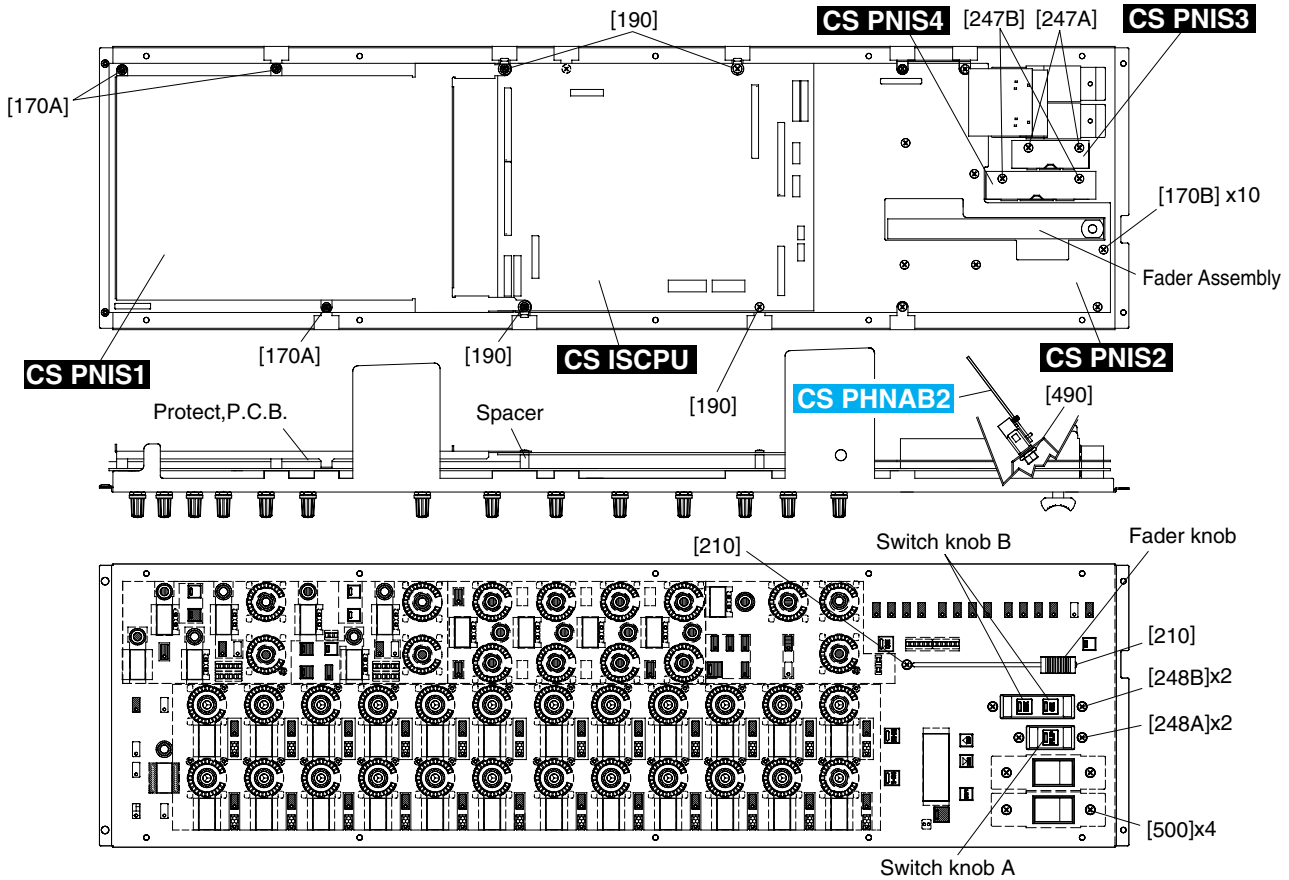
Fig. 3

7. CS ISCPU Circuit Board

- 7-1 Remove the control panel assembly (IN SEL).
(See Procedure 1.)
- 7-2 Remove the four (4) screws marked [190]. The CS ISCPU circuit board can then be removed. (Fig. 4)

8. CS PNIS1, CS PNIS2 Circuit Board

- 8-1 Remove the control panel assembly (IN SEL).
(See Procedure 1.)
- 8-2 Remove the CS ISCPU circuit board. (See Procedure 7.)
- 8-3 Remove the circuit board protect. (Fig. 4)
- 8-4 Remove the three (3) screws marked [170A]. (Fig. 4)
- 8-5 Remove the spacer. The CS PNIS1 circuit board can then be removed. (Fig. 4)
- 8-6 Remove the ten (10) screws marked [170B]. (Fig. 4)
- 8-7 Remove the three (3) screws, The CS PNIS2 circuit board can then be removed. (Fig. 4)



- | | |
|--|--|
| [170]: Bind Head Screw 3.0x6 MFZN2BL (EG330360) | [248]: Flat Head Screw 3.0x16 MFZN2BL (VL668700) |
| [190]: Bind Head Screw 3.0x6 MFZN2BL (EG330360) | [490]: Hexagonal Nut 9.0 12x2 MFZN2BL (LX200060) |
| [210]: Flat Head Screw 3.0x6 MFZN2BL (EC030030) | [500]: Flat Head Screw 3.0x6 MFZN2BL (EC030030) |
| [247]: Bind Head Screw A3.0x6 MFZN2BL (VP156600) | |

Fig. 4

9. Fader Assembly

- 9-1 Remove the control panel assembly (IN SEL).
(See Procedure 1.)
- 9-2 Remove the fader knob. (Fig. 4)
- 9-3 Remove the two (2) screws marked [210]. The Fader assembly can then be removed. (Fig. 4)

10. CS PNIS3, PNIS4 Circuit Board

- 10-1 Remove the control panel assembly (IN SEL).
(See Procedure 1.)
- 10-2 Remove the two (2) screws marked [248A]. (Fig. 4)
- 10-3 Remove the switch knob marked [A]. (Fig. 4)
- 10-4 Remove the two (2) screws marked [247A]. The CS PNIS3 circuit board can then be removed. (Fig. 4)
- 10-5 Remove the two (2) screws marked [248B]. (Fig. 4)
- 10-6 Remove the two (2) switch knobs marked [B]. (Fig. 4)
- 10-7 Remove the two (2) screws marked [247B]. The CS PNIS4 circuit board can then be removed. (Fig. 4)

11. CS PHNAB2 Circuit Board

- 11-1 Remove the control panel assembly (IN SEL). (See Procedure 1.)
- 11-2 Remove the four (4) screws marked [500]. (Fig. 4)
- 11-3 Remove the two (2) hexagonal nuts marked [490]. The CS PHNAB2 circuit board can then be removed.

12. CS INCPU Circuit Board

- 12-1 Remove the control panel assembly (IN12, IN24, IN36, IN48). (See Procedure 1.)
- 12-2 Remove the seven (7) screws marked [170]. The CS INCPU circuit board can then be removed. (Fig. 5)

13. CS PNI1 Circuit Board

- 13-1 Remove the control panel assembly (IN12, IN24, IN36, IN48). (See Procedure 1.)
- 13-2 Remove the CS INCPU circuit board. (See Procedure 12.)
- 13-3 Remove the thirty-six (36) encoder knobs. (Fig. 5)
- 13-4 Remove the thirty-six (36) hexagonal nuts marked [130]. (Fig. 5)
- 13-5 Remove the seven (7) spacers. (Fig. 5)
- 13-6 Remove the five (5) screws marked [150]. The CS PNI1 circuit board can then be removed. (Fig. 5)
- 13-7 Remove the switch knobs marked [A] on the circuit board. (Fig. 5)

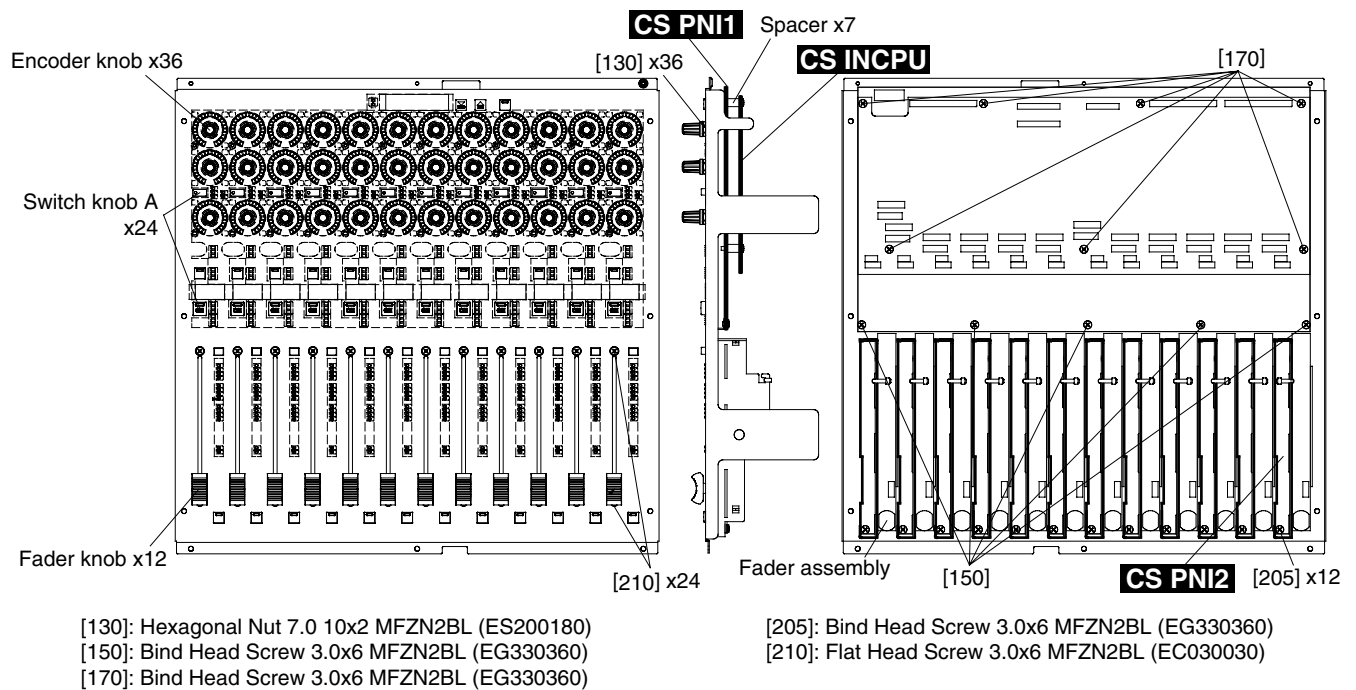


Fig. 5

14. Fader Assembly, CS PNI2 Circuit Board

- 14-1 Remove the control panel assembly (IN12, IN24, IN36, IN48). (See Procedure 1.)
- 14-2 Remove the fader knob. (Fig. 5)
- 14-3 Remove the two (2) screws marked [210]. The fader assembly can then be removed. (Fig. 5)
- 14-4 Remove the screw marked [205]. The CS PNI2 circuit board can then be removed. (Fig. 5)

15. CS OSCPU Circuit board

- 15-1 Remove the control panel assembly (OUT SEL). (See Procedure 1.)
- 15-2 Remove the five (5) screws marked [860]. The CS OSCPU circuit board can then be removed. (Fig. 7)

16. CS CUTBVL2 Circuit Board

- 16-1 Remove the control panel assembly (OUT SEL). (See Procedure 1.)
- 16-2 Remove the three (3) knobs marked [A]. (Fig. 6)
- 16-3 Remove the three (3) hexagonal nuts marked [A]. The CS CUTBVL2 circuit board can then be removed. (Fig. 6, Fig. 7)

17. CS PNOS2 Circuit Board

- 17-1 Remove the control panel assembly (OUT SEL). (See Procedure 1.)
- 17-2 Remove the CS OSCPU circuit board. (See Procedure 15.)
- 17-3 Remove the circuit board protect. (Fig. 7)
- 17-4 Remove the four (4) spacers. (Fig. 6)
- 17-5 Remove the eight (8) encoder knobs marked [A]. (Fig. 6)
- 17-6 Remove the eight (8) hexagonal nuts marked [440A]. The CS PNOS2 circuit board can then be removed. (Fig. 6, Fig. 7)

18. CS PNOS1R Circuit Board

- 18-1 Remove the control panel assembly (OUT SEL). (See Procedure 1.)
- 18-2 Remove the six (6) encoder knobs marked [B]. (Fig. 6)
- 18-3 Remove the eight (8) screws marked [180A]. The CS PNOS1R circuit board can then be removed. (Fig. 7)
- 18-4 Remove the all switches (except SEL switches) on the circuit board.

19. CS HMOVOLA2 Circuit Board

- 19-1 Remove the control panel assembly (OUT SEL). (See Procedure 1.)
- 19-2 Remove the two (2) knobs marked [B]. (Fig. 6)
- 19-3 Remove the two (2) hexagonal nuts marked [B]. The CS HMOVOLA2 circuit board can then be removed. (Fig. 6, Fig. 7)

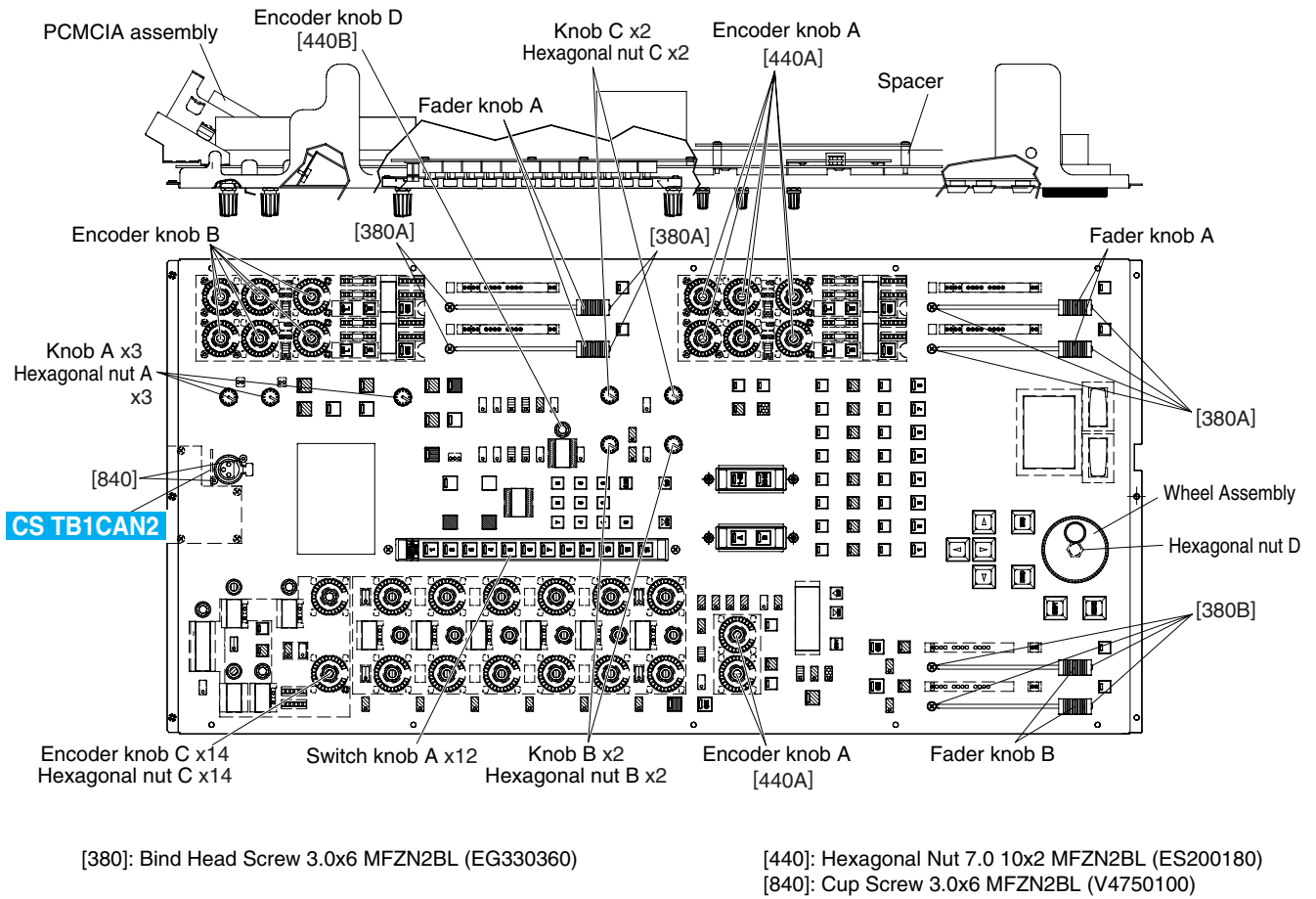


Fig. 6

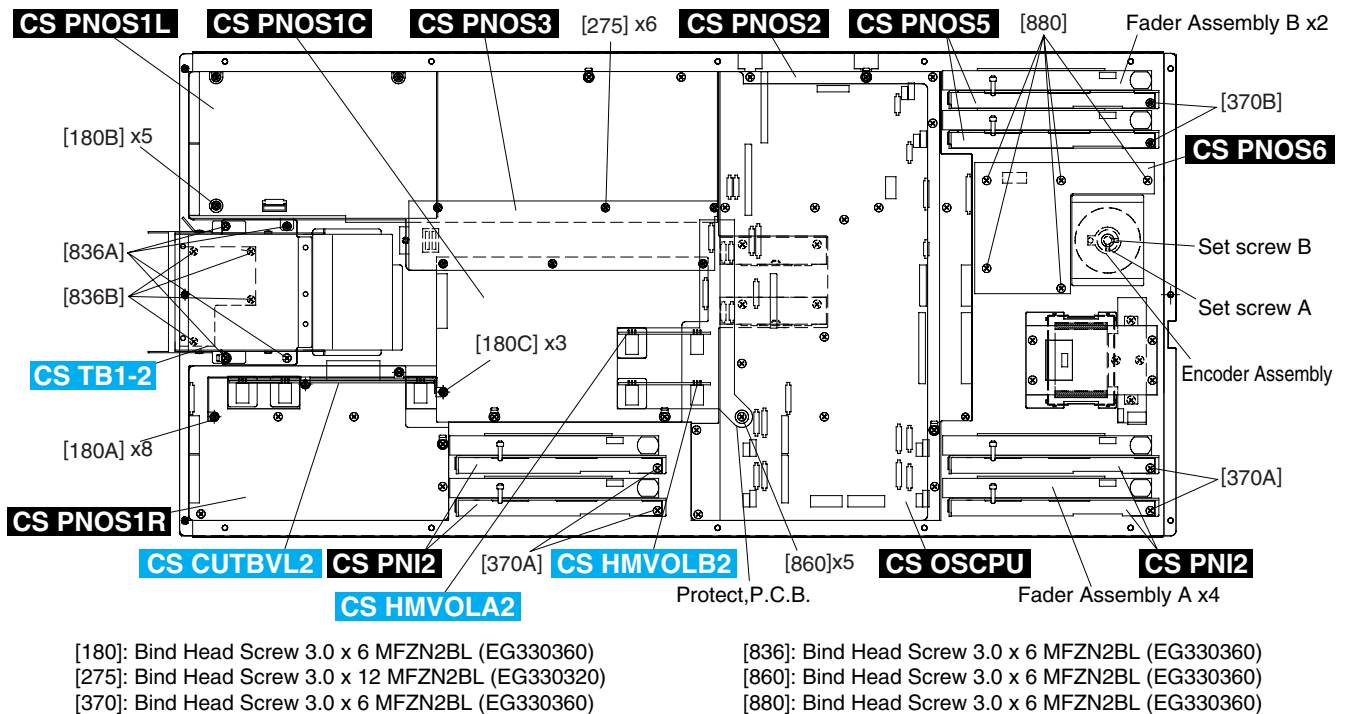


Fig. 7

20. CS HMOVOLB2 Circuit Board

- 20-1 Remove the control panel assembly (OUT SEL).
(See Procedure 1.)
- 20-2 Remove the two (2) knobs marked [C].
- 20-3 Remove the two (2) hexagonal nuts marked [C]. The CS HMOVOLB2 circuit board can then be removed. (Fig. 6, Fig. 7)

21. CS PNOS3 Circuit Board

- 21-1 Remove the control panel assembly (OUT SEL).
(See Procedure 1.)
- 21-2 Remove the six (6) screws marked [275]. The CS PNOS3 circuit board can then be removed. (Fig. 7)
- 21-3 Remove the twelve (12) switch knobs marked [A] on the circuit board. (Fig. 6)

22. CS PNOS1L Circuit Board

- 22-1 Remove the control panel assembly (OUT SEL).
(See Procedure 1.)
- 22-2 Remove the CS PNOS3 circuit board. (See Procedure 21.)
- 22-3 Remove the fourteen (14) encoder knobs marked [C]. (Fig. 6)
- 22-4 Remove the fourteen (14) hexagonal nuts marked [C]. (Fig. 6)
- 22-5 Remove the five (5) screws marked [180B]. The CS PNOS1L circuit board can then be removed. (Fig. 7)

23. CS PNOS1C Circuit Board

- 23-1 Remove the control panel assembly (OUT SEL).
(See Procedure 1.)
- 23-2 Remove the CS PNOS3 circuit board. (See Procedure 21.)
- 23-3 Remove the CS HMOVOLA circuit board. (See Procedure 19.)
- 23-4 Remove the CS HMOVOLB circuit board. (See Procedure 20.)
- 23-5 Remove the encoder knob marked [D] and the hexagonal nut marked [440B]. (Fig. 6)
- 23-6 Remove the three (3) screws marked [180C]. The CS PNOS1C circuit board can then be removed. (Fig. 7)

24. Fader Assembly, CS PNI2, CS PNOS5 Circuit Board

- 24-1 Remove the control panel assembly (OUT SEL).
(See Procedure 1.)
- 24-2 Remove the fader knob A. (Fig. 6)
- 24-3 Remove the two (2) screws marked [380A]. The fader assembly A can then be removed. (Fig. 6, Fig. 7)
- 24-4 Remove the screw marked [370A]. The CS PNI2 circuit board. (Fig. 7)
- 24-5 Remove the fader knob B. (Fig. 6)
- 24-6 Remove the two (2) screws marked [380B]. The fader assembly B can then be removed. (Fig. 6, Fig. 7)
- 24-7 Remove the screw marked [370B]. The CS PNOS5 circuit screws can then be removed. (Fig. 7)

25. Encoder Assembly

- 25-1 Remove the control panel assembly (OUT SEL).
(See Procedure 1.)
- 25-2 Remove the set screw marked [A] and the set screw marked [B]. The knob wheel assembly can then be removed. (Fig. 6, Fig. 7)

- 25-3 Remove the hexagonal nut marked [D]. The encoder assembly can then be removed. (Fig. 6, Fig. 7)

26. CS PNOS6 Circuit Board

- 26-1 Remove the control panel assembly (OUT SEL).
(See Procedure 1.)
- 26-2 Remove the five (5) screws marked [880]. The CS PNOS6 circuit board. (Fig. 7)

27. PCMCIA Assembly

- 27-1 Remove the control panel assembly (OUT SEL).
(See Procedure 1.)
- 27-2 Remove the four (4) screws marked [836A]. The PCMCIA assembly can then be removed. (Fig. 6, Fig. 7)

28. CS TB1-2 Circuit Board

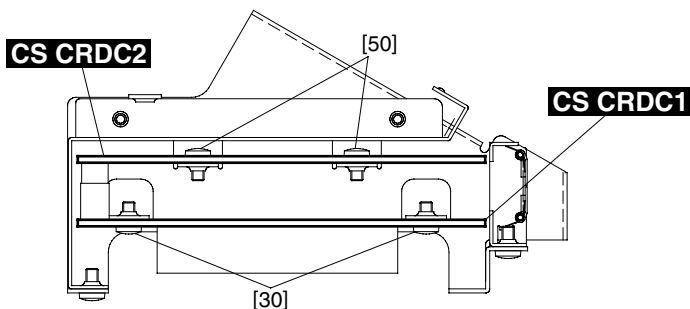
- 28-1 Remove the control panel assembly (OUT SEL).
(See Procedure 1.)
- 28-2 Remove the PCMCIA assembly. (See Procedure 27.)
- 28-3 Remove the four (4) screws marked [836B]. The CS TB1 -2 circuit board can then be removed. (Fig. 7)

29. CS CRDC1, CS CRDC2 Circuit Board

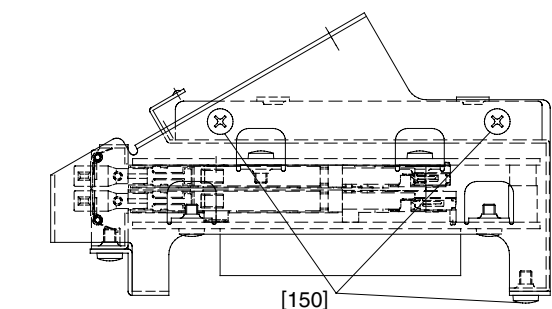
- 29-1 Remove the control panel assembly (OUT SEL).
(See Procedure 1.)
- 29-2 Remove the PCMCIA assembly. (See Procedure 27.)
- 29-3 Remove the six (6) screws marked [150]. The angle can then be removed. (Fig. 8)
- 29-4 Remove the four (4) screws marked [30]. The CS CRDC1 circuit board can then be removed. (Fig. 8)
- 29-5 Remove the four (4) screws marked [50]. The CS CRDC2 circuit board can then be removed. (Fig. 8)

30. CS TB1CAN2 Circuit Board

- 30-1 Remove the control panel assembly (OUT SEL).
(See Procedure 1.)
- 30-2 Remove the two (2) screws marked [840]. The CS TB1CAN2 circuit board can then be removed. (Fig. 6)



[30]: Bind Head Screw 3.0x6 MFZN2BL (EG330360)
[50]: Bind Head Screw 3.0x6 MFZN2BL (EG330360)

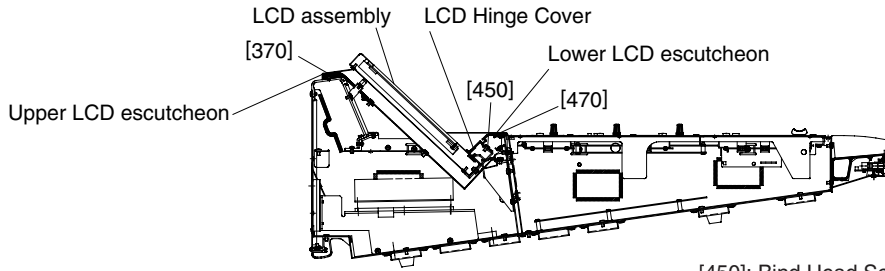


[150]: Bind Head Screw A3.0x6 MFZN2BL (VP156600)

Fig. 8

31. LCD Assembly

- 31-1 Remove the three (3) bolts marked [370] and the three (3) bolts marked [470]. The Upper LCD Escutcheon and the Lower LCD escutcheon can then be removed. (Fig. 9)
- 31-2 Remove the two (2) screws marked [450]. The LCD hinge cover can then be removed. (Fig. 9)
- 31-3 Remove the four (4) screws marked [430]. The LCD assembly can then be removed. (Fig. 9)



[370]: Bolt 4x8 MFZNBL (V4750200)

[450]: Bind Head Screw A4.0x8 MFZN2BL (VP156800)
 [470]: Bolt 3x6 MFZNBL (V4750100)

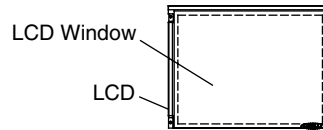
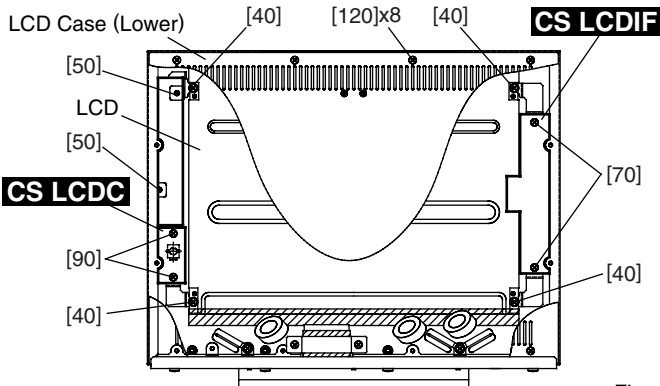
Fig. 9

32. LCDC, LCDIF Circuit Board

- 32-1 Remove the LCD assembly. (See Procedure 31.)
- 32-2 Remove the eight (8) screws marked [120]. The lower LCD case can then be removed. (Fig. 10)
- 32-3 Remove the two (2) screws marked [90]. The LCDC circuit board can then be removed. (Fig. 10)
- 32-4 Remove the two (2) screws marked [70]. The LCDIF circuit board can then be removed. (Fig. 10)

33. LCD

- 33-1 Remove the LCD assembly. (See Procedure 31.)
- 33-2 Remove the four (4) screws marked [40] and the two (2) screws marked [50]. The LCD can then be removed. (Fig. 10)
- 33-3 Remove the LCD window on the LCD. (Fig. 10)



[40]: Bind Head Screw SP3.0x8 MFZN2Y (EG330290)
 [50]: Bind Head Screw 2.0x3 MFZN2Y (VQ717600)
 [70]: Bind Head Screw 3.0x8 MFZN2BL (VB659000)
 [90]: Bind Head Screw 3.0x8 MFZN2BL (VB659000)
 [120]: Bind Head Screw A3.0x6 MFZN2BL (VP156600)

Fig. 10

34. CS CNDS1, CS MTCPU Circuit Board

- 34-1 Remove the Control Panel Assembly (IN12, IN24). (See Procedure 1.)
- 34-2 Remove the six (6) screws marked [826]. The CS CNDS1 circuit board can then be removed. (Fig. 11)
- 34-3 Remove the eight (8) screws marked [780]. The CS MTCPU circuit board can then be removed. (Fig. 11)

35. CS CNDS2 Circuit Board

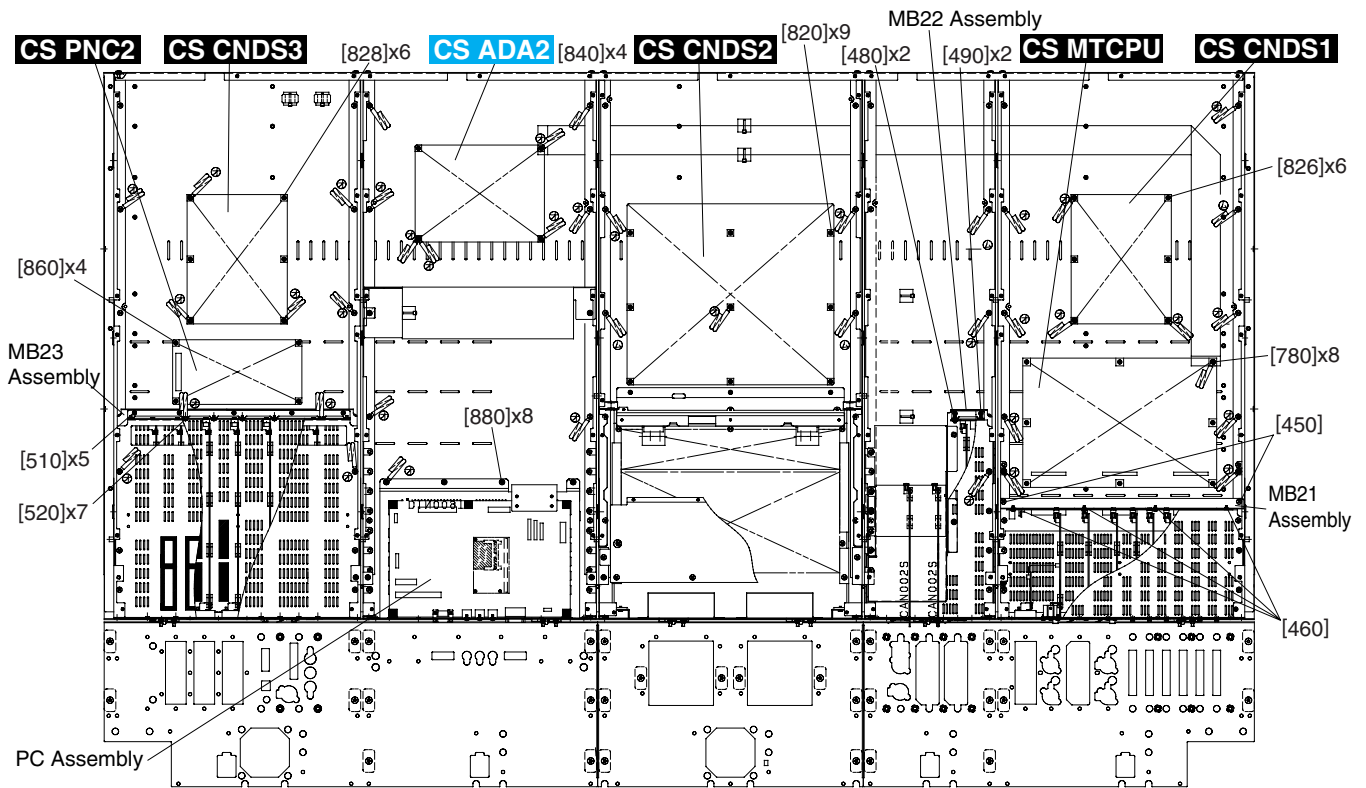
- 35-1 Remove the control panel assembly (MASTER).
(See Procedure 1.)
- 35-2 Remove the nine (9) screws marked [820]. The CS CNDS2 circuit board can then be removed. (Fig. 11)

36. CS ADA2 Circuit Board

- 36-1 Remove the control panel assembly (OUT SEL).
(See Procedure 1.)
- 36-2 Remove the four (4) screws marked [840]. The CS ADA2 circuit board can then be removed. (Fig. 11)

37. CS CNDS3, CS PNC2 Circuit Board

- 37-1 Remove the Control Panel Assembly (IN36, IN48).
(See Procedure 1.)
- 37-2 Remove the six (6) screws marked [828]. The CS CNDS3 circuit board can then be removed. (Fig. 11)
- 37-3 Remove the four (4) screws marked [860]. The CS PNC2 circuit board can then be removed. (Fig. 11)



- | | |
|--|---|
| [450]: Bind Head Tapping Screw-B A4.0x8 MFZN2BL (VC688800) | [780]: Bind Head Tapping Screw-B 3.0x6 MFZN2BL (EP600230) |
| [460]: Bind Head Tapping Screw-B 3.0x6 MFZN2BL (EP600230) | [820]: Bind Head Tapping Screw-B 3.0x6 MFZN2BL (EP600230) |
| [480]: Bind Head Tapping Screw-B A3.0x6 MFZN2BL (VP157900) | [826]: Bind Head Tapping Screw-B 3.0x6 MFZN2BL (EP600230) |
| [490]: Bind Head Tapping Screw-B 3.0x6 MFZN2BL (EP600230) | [828]: Bind Head Tapping Screw-B 3.0x6 MFZN2BL (EP600230) |
| [500C]: Bind Head Tapping Screw-B 3.0x6 MFZN2BL (EP600230) | [840]: Bind Head Tapping Screw-B 3.0x6 MFZN2BL (EP600230) |
| [510]: Bind Head Tapping Screw-B A3.0x6 MFZN2BL (VP157900) | [860]: Bind Head Tapping Screw-B 3.0x6 MFZN2BL (EP600230) |
| [520]: Bind Head Tapping Screw-B 3.0x6 MFZN2BL (EP600230) | [880]: Bind Head Screw A4.0x8 MFZN2BL (VP156800) |

Fig. 11

38. Rear Panel Assembly (A), (B), (C)

38-1 Remove the following screws, each rear panel can then be removed. (Fig. 12)

Parts	Ref. No.	Screw	QTY
Rear panel A	990c	Bind Head Tapping Screw-B A4.0x8 MFZN2BL (VC688800)	10
Rear panel B	1010c	Bind Head Tapping Screw-B A4.0x8 MFZN2BL (VC688800)	10
Rear panel C	1030c	Bind Head Tapping Screw-B A4.0x8 MFZN2BL (VC688800)	10

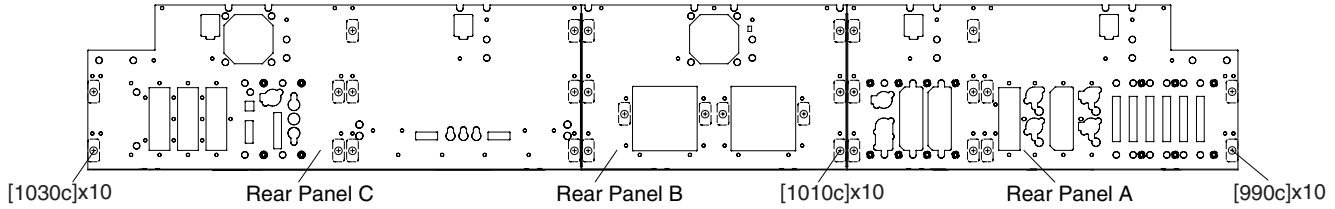


Fig. 12

39. FAN Assembly 1, FAN Assembly 2

- 39-1 Remove the rear panel (B) and (C). (See Procedure 38.)
- 39-2 Remove the two (2) screws marked [330]. The FAN assembly 1 can then be removed. (Fig. 13)
- 39-3 Remove the two (2) screws marked [350]. The FAN assembly 2 can then be removed. (Fig. 13)

40. CS DRN Circuit Board

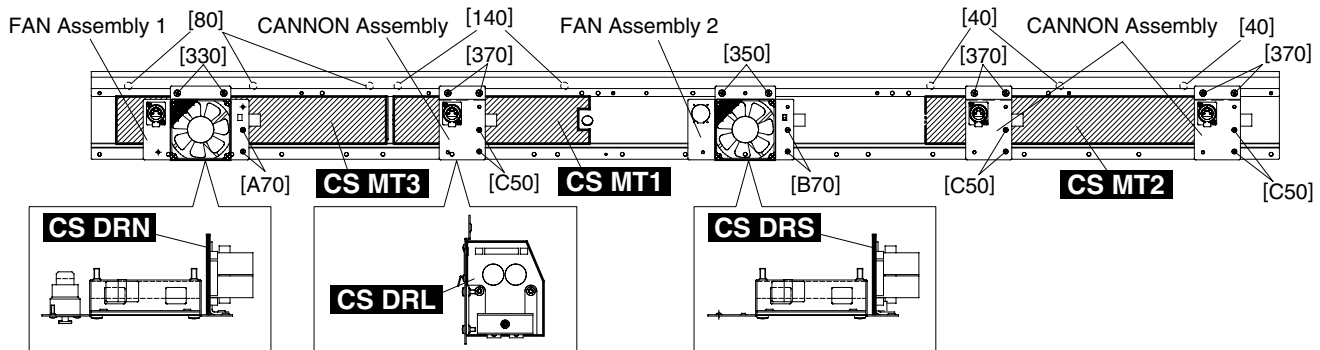
- 40-1 Remove the FAN assembly 1. (See Procedure 39.)
- 40-2 Remove the two (2) screws marked [A70]. The CS DRN circuit board can then be removed. (Fig. 13)

41. CS DRS Circuit Board

- 41-1 Remove the FAN assembly 2. (See Procedure 39.)
- 41-2 Remove the two (2) screws marked [B70]. The CS DRS circuit board can then be removed. (Fig. 13)

42. CANNON Assembly

- 42-1 Remove the rear panel (A) and (C). (See Procedure 38.)
- 42-2 Remove the two (2) screws marked [370]. The CANNON assembly can then be removed. (Fig. 13)



- [40]: Bind Head Tapping Screw-B 3.0x6 MFZN2BL (EP600230)
- [80]: Bind Head Tapping Screw-B 3.0x6 MFZN2BL (EP600230)
- [140]: Bind Head Tapping Screw-B 3.0x6 MFZN2BL (EP600230)
- [A70]: Bind Head Tapping Screw-B 3.0x8 MFZN2BL (VP157000)
- [B70]: Bind Head Tapping Screw-B 3.0x8 MFZN2BL (VP157000)
- [C50]: Bind Head Tapping Screw-B 3.0x8 MFZN2BL (VP157000)
- [330]: Bind Head Tapping Screw-B A4.0x8 MFZN2BL (VC688800)
- [350]: Bind Head Tapping Screw-B A4.0x8 MFZN2BL (VC688800)
- [370]: Bind Head Tapping Screw-B A4.0x8 MFZN2BL (VC688800)

Fig. 13

43. CS DRL Circuit Board

- 43-1 Remove the CANNON assembly. (See Procedure 42.)
- 43-2 Remove the two (2) screws marked [C50]. The CS DRL circuit board can then be removed. (Fig. 13)

44. CS MT1, CS MT2, CS MT3 Circuit Board

- 44-1 Remove the rear panel (A), (B) and (C). (See Procedure 38.)
- 44-2 Remove the two (2) screws marked [140]. The CS MT1 circuit board can then be removed. (Fig. 13)
- 44-3 Remove the three (3) screws marked [40]. The CS MT2 circuit board can then be removed. (Fig. 13)
- 44-4 Remove the three (3) screws marked [80]. The CS MT3 circuit board can then be removed. (Fig. 13)

45. CARD Assembly (Rear Panel A)

- 45-1 Remove the rear panel (A). (See Procedure 38.)
- 45-2 Remove the following screws, each assembly can then be removed. (Fig. 14)

Assembly	Ref. No.	Screw	QTY
MIO-CARD	540	Bonding Head Screw 4.0x8 MFZN2BL (VS154500)	8
CIO-CARD	560	Bonding Head Screw 4.0x8 MFZN2BL (VS154500)	4
STI-CARD	A	Bonding Head Screw 4.0x8 MFZN2BL (VS154500)	2
AEI-CARD	B	Bonding Head Screw 4.0x8 MFZN2BL (VS154500)	2
STO-CARD	C	Bonding Head Screw 4.0x8 MFZN2BL (VS154500)	4
AD2-CARD	626	Bonding Head Screw 4.0x8 MFZN2BL (VS154500)	2
MO12-CARD	640	Bonding Head Screw 4.0x8 MFZN2BL (VS154500)	2
MO22-CARD	660	Bonding Head Screw 4.0x8 MFZN2BL (VS154500)	2

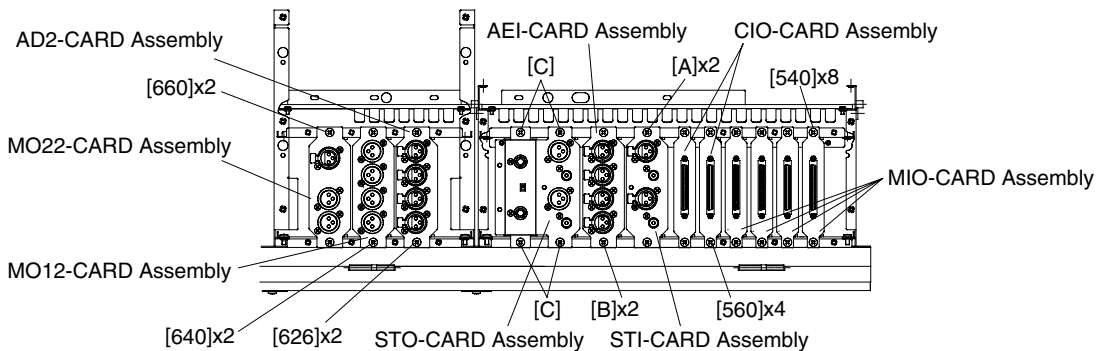
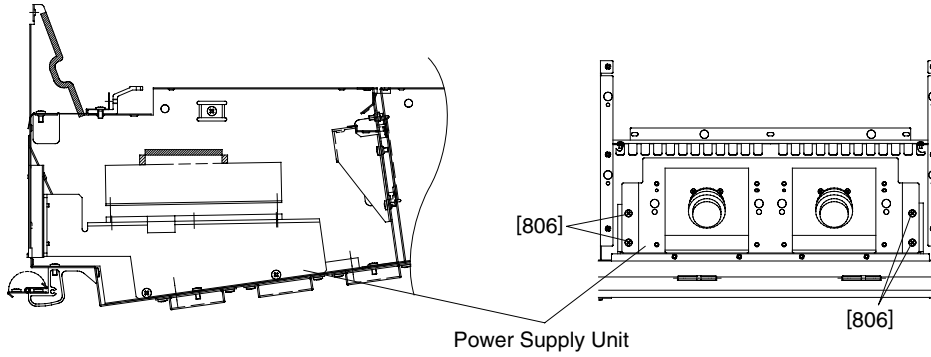


Fig. 14

46. Power Supply Unit

- 46-1 Remove the rear panel (B). (See Procedure 38.)
- 46-2 Remove the four (4) screws marked [806]. The Sub Panel can then be removed. (Fig. 15)
- 46-3 Remove the Lower LCD escutcheon cover. (See Procedure 31-1.)
- 46-4 Remove the FAN assembly 2. (See Procedure 39-3.)
- 46-5 Remove the five (5) screws marked [795]. The power supply unit can then be removed.



[806]: Bind Head Tapping Screw-B A4.0x8 MFZN2BL (VC688800)
 Fig. 15

47. CARD Assembly (Rear Panel C)

- 47-1 Remove the rear panel (C). (See Procedure 38.)
- 47-2 Remove the following screws, each assembly can then be removed. (Fig. 16)

Assembly	Ref. No.	Screw	QTY
CMU1-CARD	740	Bonding Head Screw 4.0x8 MFZN2BL (VS154500)	2
CMU2-CARD	760	Bonding Head Screw 4.0x8 MFZN2BL (VS154500)	2
PNC1-CARD	D	Bonding Head Screw 4.0x8 MFZN2BL (VS154500)	2
EIF-CARD	E	Bonding Head Screw 4.0x8 MFZN2BL (VS154500)	2
CCAS-CARD	F	Bonding Head Screw 4.0x8 MFZN2BL (VS154500)	2

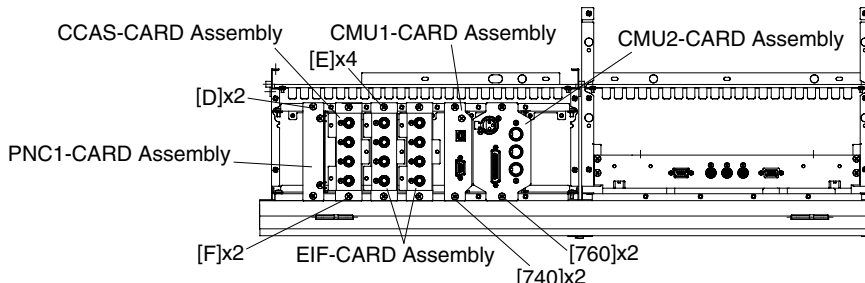


Fig. 16

48. Litium Battery

- 48-1 Remove the CMU1-CARD assembly. (See Procedure 47.)
 - 48-2 Remove the litium battery. (Fig. 17)
- * The lithium battery is not a part of the CMU1 circuit board. When you replace the CMU1 circuit board, remove the lithium battery and install it in the new circuit board.

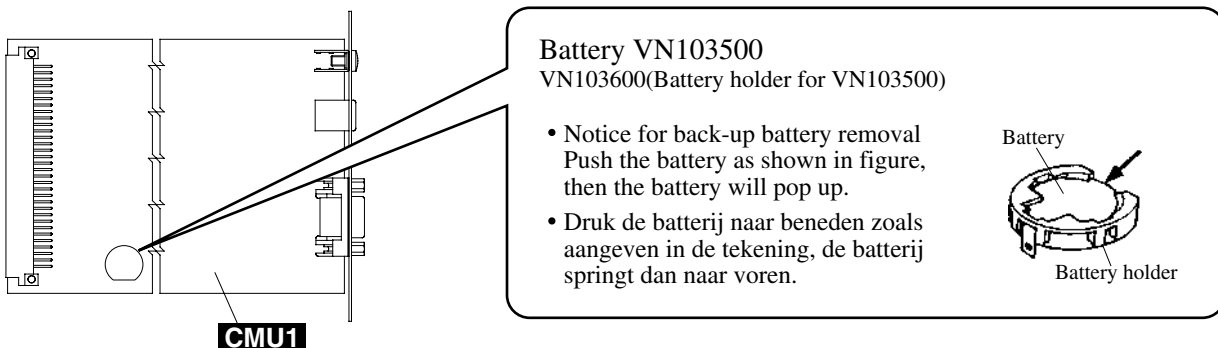
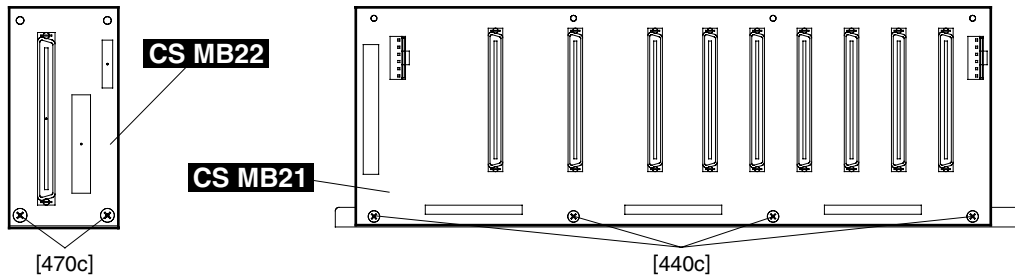


Fig. 17

49. CS MB21, MB22 Circuit Board

- 49-1 Remove the Control Panel Assembly (IN SEL, IN12, IN24). (See Procedure 1.)
- 49-2 Remove the rear panel (A). (See Procedure 38.)
- 49-3 Remove all the CARD assembly in the procedure 45.
- 49-4 Remove the two (2) screws marked [450] and the the four (4) screws marked [460]. The MB21 assembly can then be removed. (Fig. 11)
- 49-5 Remove the four (4) screws marked [440c]. The CS MB21 circuit board can then be removed. (Fig. 18)
- 49-6 Remove the two (2) screws marked [480] and the two (2) screws marked [490]. The MB22 assembly can then be removed. (Fig. 11)
- 49-7 Remove the two (2) screws marked [470c]. The CS MB22 circuit board can then be removed. (Fig. 18)

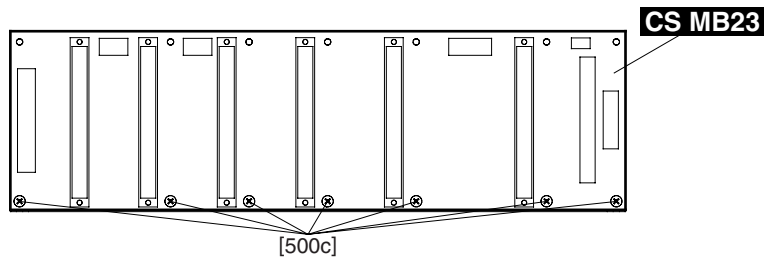


[440c]: Bind Head Tapping Screw-B 3.0 x 6 MFZN2BL (EP600230) [470c]: Bind Head Tapping Screw-B 3.0 x 6 MFZN2BL (EP600230)

Fig. 18

50. CS MB23 Circuit Board

- 50-1 Remove the Control Panel Assembly (IN36, IN48). (See Procedure 1.)
- 50-2 Remove the rear panel (C). (See Procedure 38.)
- 50-3 Remove the five (5) screws marked [510] and the seven (7) screws marked [520]. The MB23 circuit board with the angle can then be removed. (Fig. 11)
- 50-4 Remove the seven (7) screws marked [500c]. The MB23 circuit board can then be removed. (Fig. 19)

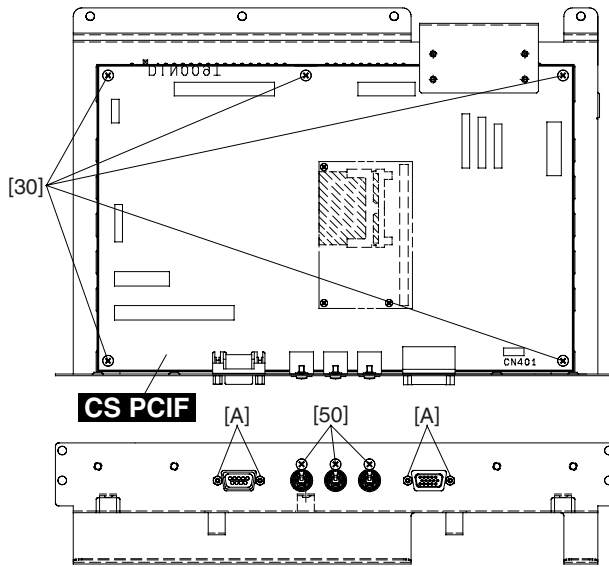


[500c]: Bind Head Tapping Screw-B 3.0 x 6 MFZN2BL (EP600230)

Fig. 19

51. CS PCIF Circuit Board

- 51-1 Remove the Control Panel Assembly (OUT SEL).
(See Procedure 1.)
- 51-2 Remove the eight (8) screws marked [880]. The PC assembly can then be removed. (Fig. 11)
- 51-3 Remove the five (5) screws marked [30], the three (3) screws marked [50] and the four (4) screws marked [A]. The CS PCIF circuit board can then be removed. (Fig. 20)

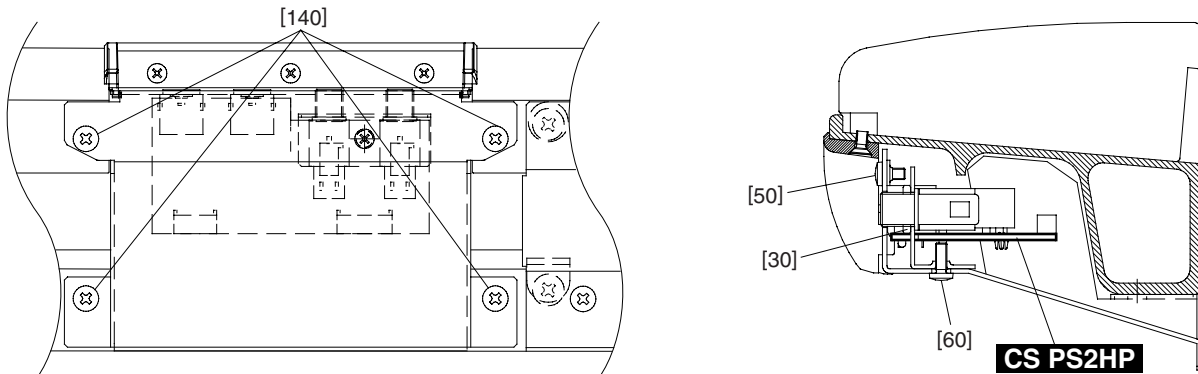


[30]: Bind Head Tapping Screw-B 3.0 x 6 MFZN2BL (EP600230) [50]: Bonding Head Screw 3.0x6 MFZN2BL (VS863000)

Fig. 20

52. CS PS2HP Circuit Board

- 52-1 Remove the four (4) screws marked [140]. The PHJ angle can then be removed. (Fig. 21)
- 52-2 Remove the two (2) hexagonal nuts marked [30], the two (2) screws marked [50] and the screw marked [60]. Remove the CS PS2HP circuit board on the PHJ angle. (Fig. 21)



[30]: Hexagonal nut 9.0 11x2 MFZN2BL (VJ388000) [60]: Bonding Tapping Screw-B 3.0x8 MFZN2BL (VN413300)
 [50]: Bonding Head Screw 3.0x8 MFZN2BL (VC688800) [140]: Bind Head Tapping Screw-B A4.0x8 MFZN2BL (VC688800)

Fig. 21

LSI PIN DESCRIPTION

YM3436DK (XG948E0) DIR2 (Digital Format Interface Receiver).....	31
YM3437C-F (XM530A00) DIT2 (Digital Format Interface Transmitter)	31
HD6477042AF28 (XY715A00) CPU	32
AK4393-VS-E2 (XW029A00) DAC (Digital to Analog Converter)	32
HD6437043AF33 (XY138A00) CPU	33
μPD71051GB-3B4 (XI999A00) USART (Synchronous Asynchronous Receiver Transceiver) ..	34
YAC509F (XM167A00) ADFC (AD Floating Control).....	34
AM7992BPC (XW277A00) SIA (Serial Interface Adapter).....	34
SGH609080F-47F (XU235A00) ATSC	35
AK5392-VS-E2 (XV065A00) ADC (Analog to Digital Converter)	36
ICS2008A (XV619A00) T.C. Reader/Generator	36
PDIUSB12PW (XW583A00) USB Interface	36
YSS904-F (XV989A00) DSP5 (Digital Signal Processor)	37
TPS2205IDB (XW602A00) Power Controller	38
E0C37120 (XW790A00) Multi Function Buffer	38

• YM3436DK (XG948E0) DIR2 (Digital Format Interface Receiver)

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	DOUT	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

• YM3437C-F (XM530A00) DIT2 (Digital Format Interface Transmitter)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION	
1	Vss		Ground	9	MUTE	I	Mute	
2	MCLK	I	Master clock input	10	VFL	I	Validity flag	
3	DM0	I	DIN/BCLK/WCLK format select DM1,DM0=0,0 DSP,LDSP (64 bit,LSB first) DM1,DM0=0,1stereo,DSP (64 bit,MSB first) DM1,DM0=1,0 DSP2 (128 bit,MSB first) DM1,DM0=1,1 BB (64 bit,MSB first)	11	CCK	I	C,U bit clock input/C bit data input	
4	DM1	I		12	CIN	I	C,U bit data input/U bit data input	
5	RES	I		System reset	13	CLD	I	End of C,U bit input/16,20 bit/24 bit select
6	WCIN	I		Word clock input	14	CNTR	I	32 bit counter reset/Top of block
7	DIN	I	Digital audio serial data input	15	CSM	I	Channel status input mode select CSM=0 Asynchronous mode, CSM=1 Synchronous mode	
8	VDD		Power supply (+5 V)	16	DOUT	O	Digital interface formatted data output	

● HD6477042AF28 (XY715A00) CPU

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	Power supply	61	VSS	I	Ground	
20	A16	O						
21	VCC	I	Power supply	62	D7	I/O	Data bus	
22	A17	O	Address bus	63	D6	I/O		
23	VSS	I	Ground	64	D5	I/O		
24	/RAS	O	Row address strobe	65	VCC	I	Power supply	
25	/CASL	O	Column address strobe (low)	66	D4	I/O		
26	/CASH	O	Column address strobe (high)	67	D3	I/O	Data bus	
27	VSS	O	Ground	68	D2	I/O		
28	RDWR / PB5	O	DRAM read/write / Port B	69	D1	I/O		
29	A18	O	Address bus	70	D0	I/O	Ground	
30	A19	O						
31	A20	O						
32	PB9 / A21	O		Port B / Address bus	71	VSS	I	Crystal oscillator
33	VSS	I		Ground	72	XTAL	I	
34	/RD	O	Read	73	MD3	I	Mode control	
35	/WDTOVF	O	Watch dog timer overflow	74	EXTAL	I	Crystal oscillator	
36	/WRH	O	High write	75	MD2	I	Mode control	
37	VCC	I	Power supply	76	NMI	I	Non-maskable interrupt request	
38	/WRL	O	Low write	77	VCC	I	Power supply	
39	VSS	I	Ground	78	MD1	I	Mode control	
40	/CS1	O	Chip select	79	MD0	I	Mode control	
41	/CS0	O	Chip select	80	PLLVCC	I	PLL Power supply	
42	PA9 / TCLKD	O	Port A / Timer clock	81	PLLCAP	I	PLL capacitor	
43	/IRQ2 / TCLKC	I	Interrupt request / Timer clock	82	PLLVSS	I	PLL Ground	
44	/CS3	O	Chip select	83	PA15 / CK	O	Port A / Clock	
45	/CS2	O	Chip select	84	/RES	I	Reset	
46	/IRQ1	I	Interrupt request	85	PE0	I	Port E	
47	TXD	O	Data transmission	86	PE1	I		
48	RXD	I	Data reception	87	PE2	I		
49	/IRQ0	I	Interrupt request	88	PE3	I		
50	PA1 / TXD0	O	Port A / Data transmission	89	PE4	I	Ground	
51	PA0 / RXD0	I	Port A / Data reception	90	VSS	I		
52	D15	I/O	Data bus	91	AN0 / PF0	I	Analog input / Port F	
53	D14	I/O						
54	D13	I/O						
55	VSS	I		Ground	92	AN1 / PF1		I
56	D12	I/O	Data bus	93	AN2 / PF2	I		
				94	AN3 / PF3	I		
				95	AN4 / PF4	I		
				96	AN5 / PF5	I		
				97	AVSS	I	Analog ground	
				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	Port E	
				110	PE11	O		
				111	PE12	O		
				112	PE13	O		

● AK4393-VS-E2 (XW029A00) DAC (Digital to Analog Converter)

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/CDT1	I					
12	DIF0	I	Digital input format	25	P//S	I	Parallel/serial select
13	DIF1	I					
14	DIF2	I					
				26	CKS0	I	Master clock select
				27	CKS1	I	
				28	CKS2	I	

● HD6437043AF33 (XY138A00) CPU

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	/WRHH	O	HH write	73	D15	I/O	Data bus
2	/DACK0/PE14	O	DAM transfer strobe/Port E	74	D14	I/O	
3	/WRHL	O	HL write	75	D13	I/O	
4	CASHH/PA21	I/O	HH Column address strobe/Port A	76	D12	I/O	Power supply
5	DACK1/PE15	O	DMA transfer strobe/Port E	77	VCC	I	
6	VSS	I	Ground	78	D11	I/O	
7	A0	O	Address bus	79	VSS	I	Ground
8	A1	O					
9	A2	O					
10	A3	O					
11	A4	O					
12	VCC	I	Power supply	80	D10	I/O	Data bus
13	A5	O					
14	VSS	I					
15	A6	O	Address bus	81	D9	I/O	Power supply
16	A7	O					
17	A8	O					
18	A9	O					
19	A10	O					
20	A11	O	Address bus	82	D8	I/O	Data bus
21	A12	O					
22	A13	O					
23	A14	O					
24	A15	O					
25	A16	O	Power supply	83	D7	I/O	Power supply
26	VCC	I					
27	A17	O					
28	VSS	I	Ground	84	D6	I/O	Data bus
29	/CASHL/PA20	I/O					
30	PA19	I/O					
31	/RAS/PB2	O	Row address strobe/Port B	85	VCC	I	Power supply
32	/CASL/PB3	O	Column address strobe (low) /Port B	86	D5	I/O	
33	PA18	I/O	Port A	87	VSS	I	
34	/CASH/PB4	O	Column address strobe (high) /Port B	88	D4	I/O	Data bus
35	VSS	I	Ground	89	D3	I/O	
36	RDWR/PB5	O	DRAM read/write /Port B	90	D2	I/O	
37	A18	O	Address bus	91	D1	I/O	Data bus
38	A19	O					
39	A20	O					
40	VCC	I					
41	A21	O					
42	VSS	I	Power supply	92	D0	I/O	Ground
43	/RD	O					
44	/WDTOVF	O					
45	D31	I/O	Data bus	93	VSS	I	Crystal oscillator
46	D30	I/O	Data bus	94	XTAL	I	
47	/WRH	O	High write	95	MD3	I	
48	/WRL	O	Low write	96	EXTAL	I	Crystal oscillator
49	/CS1	O	Chip select	97	MD2	I	
50	/CS0	O	Chip select	98	NMI	-	
51	/IRQ3/PA9	I/O	Interrupt request/Port A	99	VCC	I	Power supply
52	/IRQ2/PA8	I/O	Interrupt request/Port A	100	PA16	I/O	
53	/CS3	O	Chip select	101	PA17	I/O	
54	/CS2	O	Chip select	102	MD1	I	Mode select
55	VSS	I	Ground	103	MD0	I	
56	D29	I/O	Data bus	104	PLL VCC	I	
57	D28	I/O					
58	D27	I/O					
59	D26	I/O					
60	D25	I/O					
61	VSS	I	Ground	105	PLL CAP	I	
62	D24	I/O					
63	VCC	I					
64	D23	I/O	Address bus	106	PLL VSS	I	
65	D22	I/O					
66	D21	I/O					
67	D20	I/O					
68	D19	I/O					
69	D18	I/O	Power supply	107	CK/PA15	I/O	
70	D17	I/O					
71	VSS	I					
72	D16	I/O	Data bus	108	/RES	I	Reset
				109	/DREQ0/TIOC0A/PE0	I/O	
				110	PE1	I/O	
				111	/DREQ1/PE2	I/O	DMA transfer request/Port E
				112	VCC	I	
				113	PE3	I/O	
				114	PE4	I/O	Port E
				115	PE5	I/O	
				116	PE6	I/O	
				117	VSS	I	Ground
				118	AN0 /PF0	I	
				119	AN1/ PF1	I	
				120	AN2 /PF2	I	Analog input/Port F
				121	AN3 /PF3	I	
				122	AN4 /PF4	I	
				123	AN5/PF5	I	
				124	AVSS	I	
				125	AN6/PF6	I	Analog ground
				126	AN7/PF7	I	
				127	AVREF	I	
				128	AVCC	I	Analog power supply
				129	VSS	I	
				130	RxDO	I	
				131	TxD0	O	Receive data
				132	/IRQ0/SCK0	I	
				133	RxD1	I	
				134	TxD1	I/O	Transmit data
				135	VCC	I	
				136	/IRQ1/SCK1	I	
				137	PE7	I/O	Interrupt request/Serial clock
				138	PE8	I/O	
				139	PE9	I/O	
				140	PE10	I/O	Port E
				141	VSS	I	
				142	TIOC3D/PE11	I/O	
				143	PE12	I/O	Ground
				144	PE13	I/O	
							MTU input capture/output compare (ch 3)/Port E
							Port E

• **μPD71051GB-3B4 (XI999A00)**

USART (Synchronous Asynchronous Receiver Transceiver)

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	NC		} No connection	23	NC		} No connection
2	NC			24	NC		
3	TXD	O	Serial data output	25	D4		} Data bus
4	CLK	I	Master clock	26	D5		
5	RES	I	Reset	27	D6		
6	NC		No connection	28	NC		No connection
7	/DSR	I	Data set ready	29	D7	I/O	Data bus
8	/RTS	O	Request to send	30	/TXCLK	I	Transmitting clock
9	/DTR	O	Data terminal ready	31	/WR	I	Write strobe
10	NC		} No connection	32	NC		} No connection
11	NC			33	NC		
12	NC	I		34	NC		
13	/RXCLK		Signal receiving clock	35	/CS	I	Chip select
14	Vdd		Power supply	36	C/D	I	Control/Data select
15	IC		Not used	37	/RD	I	Read strobe
16	D0	I/O	} Data bus	38	RXRDY	O	Receiver ready
17	D1	I/O		39	NC		No connection
18	D2	I/O		40	TXRDY	O	Transmitter ready
19	D3	I/O		41	SYNC		connected to power supply
20	RXD	I	Serial data input	42	/CTS	I	Clear to send
21	GND		Ground	43	TXE	O	Transmitter empty
22	NC		No connection	44	NC		No connection

• **YAC509F (XM167A00) ADFC (AD Floating Control)**

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	SI0 (L)	I	LO gain input (L)	23	X0	-	} Clock
2	SI1 (L)	I	LO gain input R (GND)	24	X1	I	
3	SI0 (R)	I		25	CK256A	O	256 fs clock
4	SI1(R)	I	26	MCK	O	128 fs clock	
5	WCKI	I/O	Ward clock	27	BCK0	O	64 fs bit clock
6	BCKI	I/O	Bit clock	28	WCK0	O	1 fs ward clock
7	IMOD0*	I	} Input mode select	29	SYNC	O	1 fs sync.
8	IMOD1*	I		30	SOR	O	} Output
9	ITM0*	I	} Input timing	31	SOL	O	
10	ITM1*	I		32	CKSEL*	I	Clock select
11	GSEL0*	I	} Floating gain select	33	/RESET	I	Reset
12	GSEL1*	I		34	/MUTE*	I	Mute
13	DFC*	I	Digital filter ("1"=ON, "0"=OFF)	35	OMD*	I	Output mode
14	GCC*	I	Floating gain control ("1"=ON, "0"=OFF)	36	/NSC*	I	Noise shape control
15	HTC*	I	Cross fade hold time	37	TEST4	-	Power supply +5 V Ground Floating delay Floating switch
16	CFT0*	I	} Cross fade time	38	TEST5	-	
17	CFT1*	I		39	VDD	-	
18	GND	-	Ground	40	GND	-	
19	VDD	-	Power supply +5 V	41	/DLOSP0*	I	
20	TEST 1*	I		42	/FLOSW*	I	
21	TEST 2*	I		43	TEST 6*	-	
22	TEST 3	-		44	TEST 7*	-	

* pull-up

• **AM7992BPC (XW277A00) SIA (Serial Interface Adapter)**

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	CLSN	O	Collision (Output, TTL Active HIGH)	13	Collision+	I	Collision
2	RX	O	Receive Data	14	Collision-	I	Collision
3	RENA	O	Receive Enable (Output, TTL Active HIGH)	15	Receive+	I	Receiver
4	RCLK	O	Receive Clock	16	Receive-	I	Receiver
5	TSEL	I/O	Transmit Mode Select (Output, Open Collector; Input, Sense Amplifier)	17	/TEST	I	Test Control
6	GND1	-	High Current Ground	18	Vcc1	-	High Current and Logic Supply
7	GND2	-	Logic Ground	19	Vcc2	-	Voltage-Controlled Oscillator Supply
8	X1	I	Biased Crystal Oscillator	20	PF	I	Receive Path Vco Phase-Locked Loop Filter
9	X2	I	Biased Crystal Oscillator	21	RF	O	Frequency Setting Voltage-Controlled Oscillator (Vco) Loop Filter (Output)
10	TX	I	Transmit	22	GND3	-	Voltage-Controlled Oscillator Ground
11	TCLK	O	Transmit Clock	23	Transmit+	O	Transmit
12	TENA	I	Transmit Enable	24	Transmit-	O	Transmit

● SGH609080F-47F (XU235A00) ATSC

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION																					
1	syncati	I	Synch. word input terminal for ati, siat3-0 input	41	synci	I	Synch. word input terminal for si3-0 input																					
2	mccti	I	64 fs clock input terminal for ati, siat3-0 input	42	mcci	I	64 fs clock input terminal for si3-0 input																					
3	mcbti	I	128 fs clock input terminal for ati, siat3-0 input	43	mcbi	I	128 fs clock input terminal for si3-0 input																					
4	VCC		Power supply (+5 V)	44	VCC		Power supply (+5 V)																					
5	GND		Ground	45	GND		Ground																					
6	mcati	I	256 fs clock input terminal for ati, siat3-0 input	46	mcai	I	256 fs clock input terminal for si3-0 input																					
7	GND		Ground	47	GND		Ground																					
8	siat0	I	Serial data input terminal	48	si0	I	Serial data input terminal																					
9	siat1	I																										
10	siat2	I																										
11	siat3	I																										
12	ati	I	Optical input terminal	52	GND		Ground																					
13	GND		Ground	53	so3	O	Serial data output terminal																					
14	ato	O	Optical output terminal	54	so2	O																						
15	soat3	O	Serial data output terminal	55	so1	O																						
16	soat2	O																										
17	soat1	O																										
18	soat0	O																										
19	VCC		Power supply (+5 V)	57	VCC		Power supply (+5 V)																					
20	GND		Ground	58	GND		Ground																					
21	mcato	I	256 fs clock input terminal for ato, soat3-0 output	59	mcao	I	256 fs clock input terminal for so3-0 output																					
22	GND		Ground	60	GND		Ground																					
23	mcbito	I	128 fs clock input terminal for ato, soat3-0 output	61	mcbo	I	128 fs clock input terminal for so3-0 output																					
24	mccto	I	64 fs clock input terminal for ato, soat3-0 output	62	mcco	I	64 fs clock input terminal for so3-0 output																					
25	syncato	I	Synch. word input terminal for ato, soat3-0 output	63	synco	I	Synch. word input terminal for so3-0 output																					
26	clkssel	I	Clock select terminal for ato, soat 3-0 output 0: mcato,mcbito,mccto,syncato 1: mcai,mcbi,mcci,synci	64	so-sel1	I	Format select terminal for soat3-0 output																					
27	ato-sel0	I	Format select terminal for ato, soat3-0 output	65	so-sel0	I	Format select terminal for soat3-0 output																					
28	ato-sel1	I																										
			<table border="1"> <thead> <tr> <th colspan="3">0: mcato,mcbito,mccto,syncato</th> </tr> <tr> <th colspan="3">1: mcai,mcbi,mcci,synci</th> </tr> <tr> <th>ato sel1</th> <th>ato sel0</th> <th>output format</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>ato</td> </tr> <tr> <td>1</td> <td>0</td> <td>soat0 (8ch/line)</td> </tr> <tr> <td>0</td> <td>1</td> <td>soat2, 0 (4ch/line)</td> </tr> <tr> <td>0</td> <td>0</td> <td>soat3-0 (2ch/line)</td> </tr> </tbody> </table>	0: mcato,mcbito,mccto,syncato			1: mcai,mcbi,mcci,synci			ato sel1	ato sel0	output format	1	1	ato	1	0	soat0 (8ch/line)	0	1	soat2, 0 (4ch/line)	0	0	soat3-0 (2ch/line)	66	uo3	O	U-bit output terminal for optical output
0: mcato,mcbito,mccto,syncato																												
1: mcai,mcbi,mcci,synci																												
ato sel1	ato sel0	output format																										
1	1	ato																										
1	0	soat0 (8ch/line)																										
0	1	soat2, 0 (4ch/line)																										
0	0	soat3-0 (2ch/line)																										
				67	uo2	O																						
				68	uo1	O																						
29	bitsel2		Bit shift select terminal for the ato output	69	uo0	O																						
30	bitsel1																											
31	bitsel0																											
32	VCC		Power supply (+5 V)	70	ext-sync1	O	Synch. detect output terminal 1																					
33	GND		Ground	71	VCC		Power supply (+5 V)																					
34	ext-sync2		Synch. detect output terminal 2	72	GND		Ground																					
35	ui0		U-bit input terminal for optical output	73	clk	I	Clock input terminal for word clock extract																					
36	ui1																											
37	ui2																											
38	ui3																											
39	si-sel0		input format select terminal for si3-0	74	GND		Ground																					
40	si-sel1		input format select terminal for si3-0i	75	/res	I	System reset input terminal																					
			<table border="1"> <thead> <tr> <th>si sel1</th> <th>si sel0</th> <th>input format</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>not enable to set</td> </tr> <tr> <td>1</td> <td>0</td> <td>si0 (8ch/line)</td> </tr> <tr> <td>0</td> <td>1</td> <td>si2, 0 (4ch/line)</td> </tr> <tr> <td>0</td> <td>0</td> <td>si3-0 (2ch/line)</td> </tr> </tbody> </table>	si sel1	si sel0	input format	1	1	not enable to set	1	0	si0 (8ch/line)	0	1	si2, 0 (4ch/line)	0	0	si3-0 (2ch/line)	76	GND		Ground						
si sel1	si sel0	input format																										
1	1	not enable to set																										
1	0	si0 (8ch/line)																										
0	1	si2, 0 (4ch/line)																										
0	0	si3-0 (2ch/line)																										
				77	wc-at	O	Word clock output terminal																					
				78	mute	I	Data mute input terminal																					
				79	ati-sel1	I	Input format select terminal for ati, siat3-0.																					
				80	ati-sel0	I	input format select terminal for ati, siat3-0.																					
							<table border="1"> <thead> <tr> <th>ati sel1</th> <th>ati sel0</th> <th>input format</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>ati</td> </tr> <tr> <td>1</td> <td>0</td> <td>ati0 (8ch/line)</td> </tr> <tr> <td>0</td> <td>1</td> <td>ati2, 0 (4ch/line)</td> </tr> <tr> <td>0</td> <td>0</td> <td>ati3-0 (2ch/line)</td> </tr> </tbody> </table>	ati sel1	ati sel0	input format	1	1	ati	1	0	ati0 (8ch/line)	0	1	ati2, 0 (4ch/line)	0	0	ati3-0 (2ch/line)						
ati sel1	ati sel0	input format																										
1	1	ati																										
1	0	ati0 (8ch/line)																										
0	1	ati2, 0 (4ch/line)																										
0	0	ati3-0 (2ch/line)																										

● **AK5392-VS-E2 (XV065A00) ADC (Analog to Digital Converter)**

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	VREFL	O	L ch standard voltage output (+3.75 V)	15	SDATA	O	Serial data output
2	GNDL	-	L ch Ground	16	FSYNC	I/O	Frame synchronization clock
3	VCOML	O	L ch common voltage (+2.5 V)	17	MCLK	I	Master clock input CMODE="H":384 fs CMODE="L":256 fs
4	AINL+	I	L ch analog (+) input	18	CMODE	I	Master clock select "L": MCLK=256 fs (12.288 MHz @fs=48 kHz) "H": MCLK=384 fs (18.432 MHz @fs=48 kHz)
5	AINL-	-	L ch analog (-) input	19	HPFE	I	HPF enable "L": OFF "H": ON
6	ZCAL	I	Zero calibration "L": VCOML,VCOMR "H": Analog input (AINL+/-,AINRR+/-)	20	TEST	I	TEST pin Connect it with DGND.
7	VD	-	Power supply for digital	21	BGND	-	Ground
8	DGND	-	Ground for digital	22	AGND	-	Ground for analog
9	CAL	O	Calibration status	23	VA	-	Power supply for analog (+5 V)
10	/RST	I	Reset	24	AINR-	I	R ch analog (+) input
11	SMODE2	I	Serial interface mode select	25	AINR+	I	R ch analog (-) input
12	SMODE1	I	MSB first, 2's compliment SMODE2 SMODE1 MODE LRCK L L Slave mode H/L L H Master mode H/L H L Slave mode L/H H H Master mode L/H	26	VCOMR	O	R ch common voltage (-2.5 V)
13	LRCK	I/O	L/R ch select clock	27	GNDR	-	R ch ground
14	SCLK	I/O	Serial data clock	28	VREFR	O	R ch standard voltage output (+3.75 V)

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

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	

● **PDIUSB12PW (XW583A00) USB Interface**

PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	DATA0	I/O	Bit 0 of bi-directional data.	15	RD_N	I	Read Strobe (Active Low)
2	DATA1	I/O	Bit 1 of bi-directional data.	16	WR_N	I	Write Strobe (Active Low)
3	DATA2	I/O	Bit 2 of bi-directional data.	17	DMREQ	O	DMA Request.
4	DATA3	I/O	Bit 3 of bi-directional data.	18	DMACK_N	I	DMA Acknowledge (Active Low).
5	GND	-	Ground	19	EOT_N	I	End of DMA Transfer (Active Low).
6	DATA4	I/O	Bit 4 of bi-directional data.	20	RESET_N	I	Reset (Active Low and asynchronous).
7	DATA5	I/O	Bit 5 of bi-directional data.				Built-in Power-On-Reset circuit
8	DATA6	I/O	Bit 6 of bi-directional data.	21	GL_N	O	GoodLink LED indicator (Active Low)
9	DATA7	I/O	Bit 7 of bi-directional data.	22	XTAL1	I	Crystal Connection 1 (6 MHz)
10	ALE	I	Address Latch Enable.	23	XTAL2	O	Crystal Connection 2 (6 MHz)
11	CS_N	I	Chip Select (Active Low).	24	Vcc	-	Voltage supply (4.0-5.5 V)
12	SUSPEND	I/O	Device is in Suspend state.	25	D-	-	USB D-data line
13	CLKOUT	O	Programmable Output Clock (slew-rate controlled)	26	D+	-	USB D+data line
14	INT_N	O	interrupt (Active Low)	27	Vout3.3	-	3.3 V regulated output.
				28	A0	I	Address bit. A0=1 selects command instruction; A0=0 selects the data phase.

● TPS2205IDB (XW602A00) Power Controller

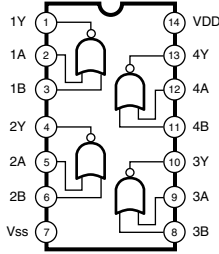
PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	5V	I	Card power (5 V)	16	3.3V	I	Card power (3.3 V)
2	5V	I	Card power (5 V)	17	3.3V	I	Card power (3.3 V)
3	A_PGM	I	AVPP voltage control	18	/OC	O	Overflow control ("L" level signal output)
4	A_Vcc	I	AVPP voltage control	19	NC	-	Not used
5	/A_Vcc	I	AVPP voltage control	20	BVCC	O	Power supply switch (0 V,3.3 V,5 V,HI-Z)
6	/A_Vcc	I	AVPP voltage control	21	BVCC	O	Power supply switch (0 V,3.3 V,5 V,HI-Z)
7	12V	I	Card power (12 V)	22	BVCC	O	Power supply switch (0 V,3.3 V,5 V,HI-Z)
8	AVPP	O	Power supply switch (0 V,3.3 V,5 V,12 V,HI-Z)	23	BVPP	O	Power supply switch (0 V,3.3 V,5 V,12 V ,HI-Z)
9	AVCC	O	Power supply switch (0 V,3.3 V,5 V,HI-Z)	24	12V	I	Card power (12 V)
10	AVCC	O	Power supply switch (0 V,3.3 V,5 V,HI-Z)	25	NC	-	Not used
11	AVCC	O	Power supply switch (0 V,3.3 V,5 V,HI-Z)	26	/B_Vcc	I	BVCC voltage control
12	GND	-	Ground	27	/B_Vcc	I	BVCC voltage control
13	NC	-	Not used	28	B_Vcc	I	BVCC voltage control
14	/SHDN	I	TPS2205 Shat down	29	B_PGM	I	BVCC voltage control
15	3.3V	I	Card power (3.3 V)	30	5V	I	Card power (5 V)

● E0C37120 (XW790A00) Multi Function Buffer

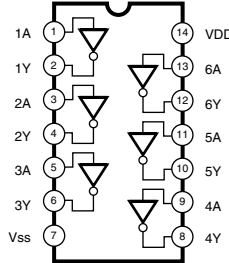
PIN NO.	NAME	I/O	FUNCTION	PIN NO.	NAME	I/O	FUNCTION
1	SVCC	-	System power supply (3.3 V)	51	TA22	O	} Target address bus signal
2	SA4	I	} System address bus signal	52	TA21	O	
3	SA5	I		53	TA20	O	
4	SA6	I		54	TA19	O	
5	SA7	I		55	VSS	-	} Ground
6	SA8	I		56	TVCC	-	
7	SA9	I		57	TA18	O	
8	SA10	I		58	TA17	O	} Target address bus signal
9	SA11	I	59	TA16	O		
10	SA12	I	60	TA15	O		
11	DDIR	I	Data bus. buffer direction signal (DDIR=High: SDxx←TDxx)(DDIR=Low: SDxx→TDxx)	61	TA14	O	
12	DEN#	I	Data bus. buffer enable signal	62	TA13	O	
13	AEN#	I	Address bus. buffer enable signal	63	TA12	O	
14	TEST	I	Test signal	64	TA11	O	
15	SA13	I	} System address bus signal	65	TA10	O	
16	SA14	I		66	TA9	O	
17	SA15	I		67	TA8	O	
18	SA16	I		68	TA7	O	
19	SA17	I		69	TA6	O	
20	SA18	I		70	TVCC	-	} Target power supply (3.3 V/5 V/OFF)
21	SA19	I		71	VSS	-	
22	SA20	I/O	} System address bus signal (TEST=High: Test signal output)	72	TA5	O	
23	SA21	I/O		73	TA4	O	
24	SA22	I/O		74	TA3	O	
25	SVCC	-	System power supply (3.3 V)	75	TA2	O	} Target address bus signal
26	VSS	-	Ground	76	TA1	O	
27	SA23	I/O	} System address bus signal (TEST=High: Test signal output)	77	TA0	O	
28	SA24	I/O		78	TD0	I/O	
29	SA25	I/O		79	TD1	I/O	
30	SD15	I/O	} System data bus signal	80	TD2	I/O	} Target data bus signal
31	SD14	I/O		81	TD3	I/O	
32	SD13	I/O		82	VSS	-	
33	SD12	I/O		83	TVCC	-	} Target power supply (3.3 V/5 V/OFF)
34	SD11	I/O		84	TD4	I/O	
35	SD10	I/O		85	TD5	I/O	} Target data bus signal
36	SD9	I/O		86	TD6	I/O	
37	SD8	I/O	87	TD7	I/O		
38	TD8	I/O	} Target data bus signal	88	SD7	I/O	
39	TD9	I/O		89	SD6	I/O	
40	TD10	I/O		90	SD5	I/O	
41	TD11	I/O		91	SD4	I/O	} System data bus signal
42	TD12	I/O		92	SD3	I/O	
43	TVCC	-		Target power supply (3.3 V/5 V/OFF)	93	SD2	
44	VSS	-		Ground	94	SD1	I/O
45	TD13	I/O	} Target data bus signal	95	SD0	I/O	
46	TD14	I/O		96	SA0	I	
47	TD15	I/O		97	SA1	I	
48	TA25	O	} Target address bus signal	98	SA2	I	} System address bus signal
49	TA24	O		99	SA3	I	
50	TA23	O		100	VSS	-	

IC BLOCK DIAGRAM

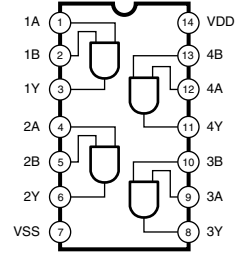
- **HD74LV02AFPEL** (IS000200)
Quad 2 Input NOR



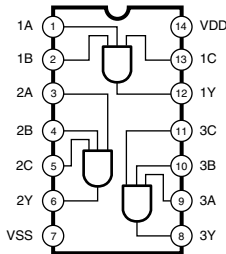
- **HD74LV04AFPEL** (IS000400)
HD74LS06FPEL (XH610A00)
SN74LS06NSR (XP985A00)
Hex Inverter



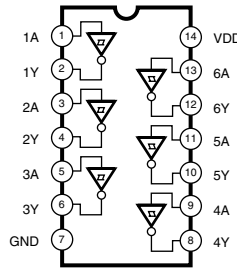
- **HD74LV08AFPEL** (IS000800)
Quad 2 Input AND



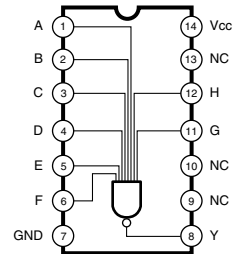
- **HD74LV11AFPEL** (IS001100)
Triple 3 Input AND



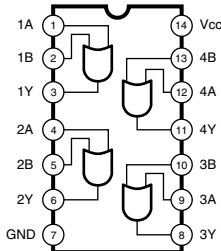
- **HD74LV14AFPEL** (IS001400)
Hex Inverter



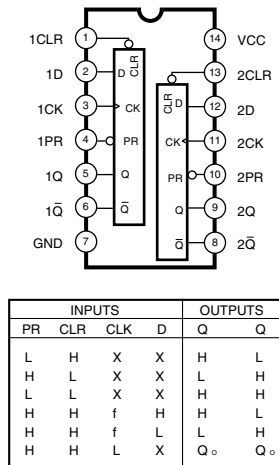
- **HD74HC30FPTL** (XQ970A00)
8 Input NAND



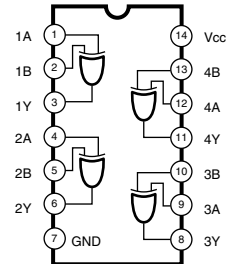
- **HD74LV32AFPTL** (IS003200)
Quad 2 Input OR



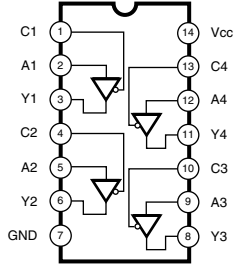
- **HD74LV74AFPEL** (IS007400)
Dual D-Type Flip-Flop



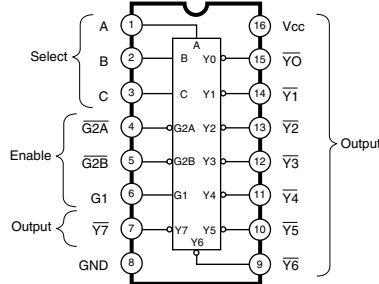
- **HD74LV86AFPEL** (IS008600)
Quad 2 Input EX-OR



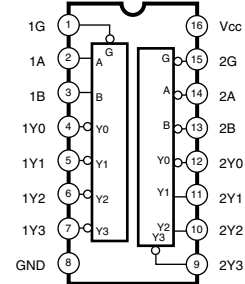
- **HD74LV125AFPEL** (IS012500)
Quad 3-State Bus Buffer



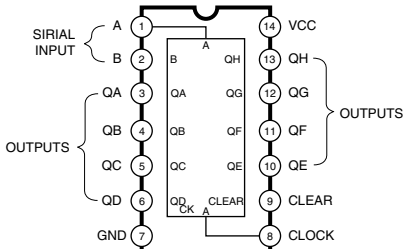
- **SN74LV138ANSR** (IS013810)
3 to 8 Demultiplexer



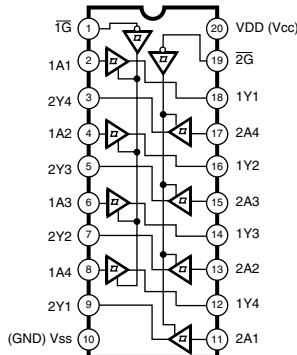
- **SN74LV139ANSR** (IS013910)
Dual 2 to 4 Demultiplexer



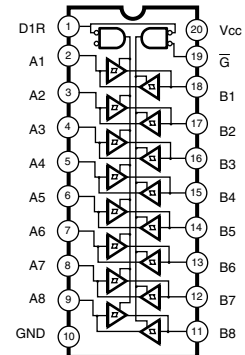
- **SN74LV164ANSR** (IS016410)
8-Bit Shift Register



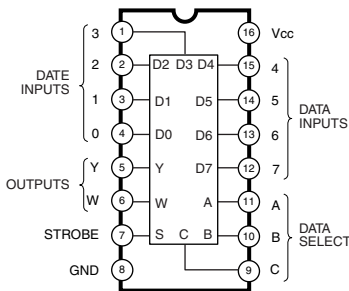
- **HD74LV244AFPEL** (IS024400)
Octal 3-State Bus Buffer



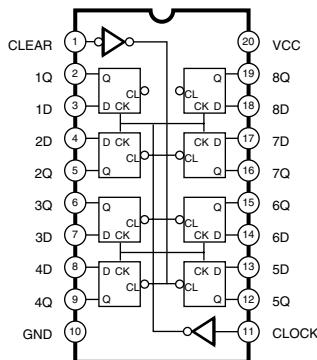
- **HD74LV245AFPEL** (IS024500)
TC74VHCT245AF (XV242A00)
TC74VHC245F (XT487A00)
Octal 3-State Bus Transceiver



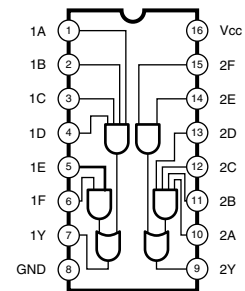
- **TC74HC251AF** (XQ968A00)
3-State 8 to 1 Data Selector



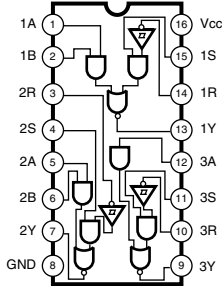
- **HD74LV273AFPEL** (IS027300)
Octal D-Type Flip Flop



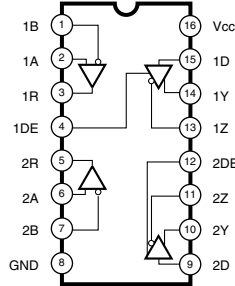
- **SN75121NSR** (XU816A00)
Dual Line Driver



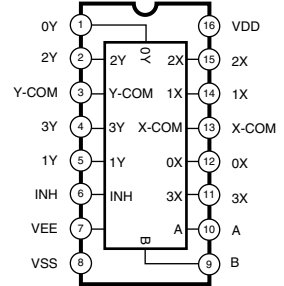
- **SN75124NSR (XV930A00)**
Triple Line Receiver



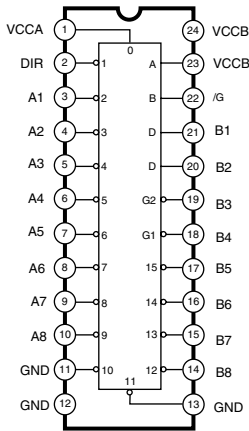
- **SN75C1168NSR (XU073A00)**
Line Driver / Receiver



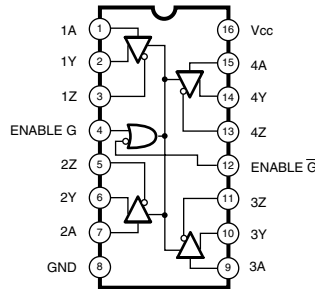
- **SN74LV4052ANSR (IS405210)**
Differential 4-Channel Multiplexer/Demultiplexer



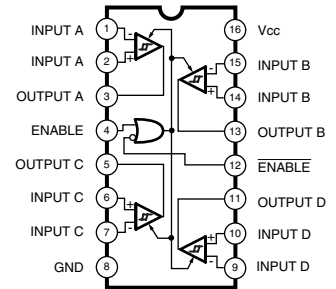
- **TC74LVX4245FS (XU229A00)**
Dual Supply Octal Bus Transceiver



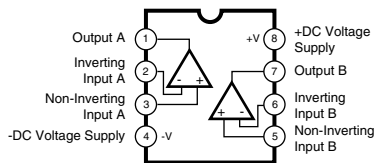
- **AM26LS31CNSR (XU996A00)**
Quad Line Driver



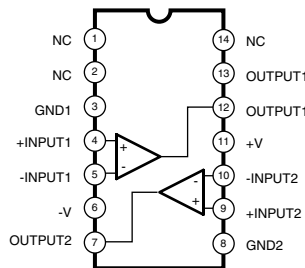
- **DS26C32ATM (XQ544A00)**
Quad Differential Line Receiver



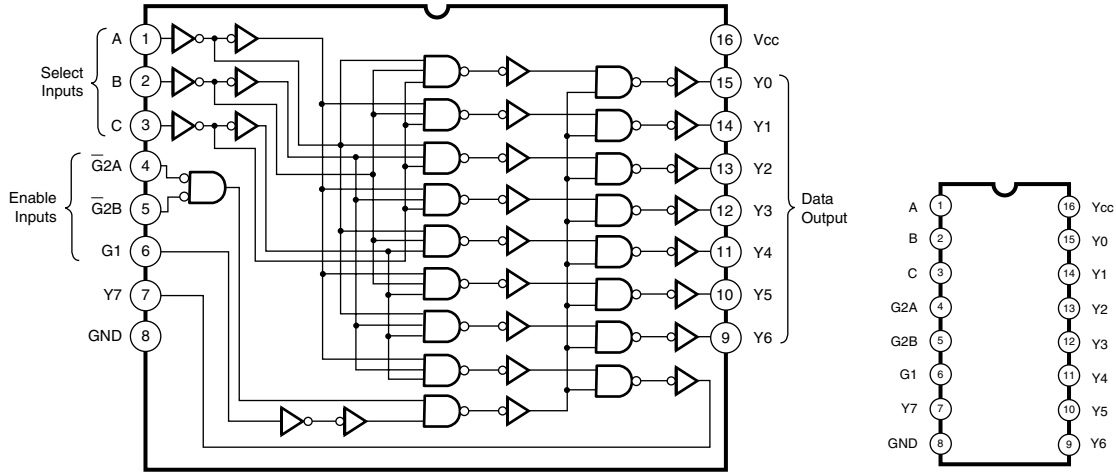
- **NJM4560M (T1) (XA862B00)**
NJM2068MD-T1 (XJ553A00)
NJM2082M (T1) (XN797A00)
NJM4556AL (XP844A00)
Dual Operational Amplifier



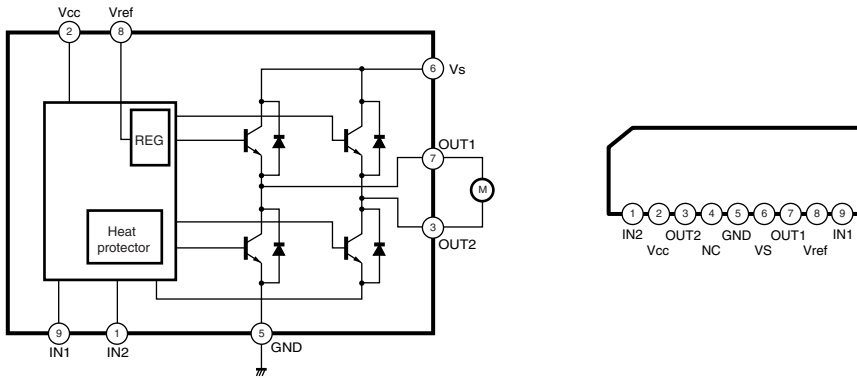
- **μPC319G2 (IG156700)**
Voltage Comparator



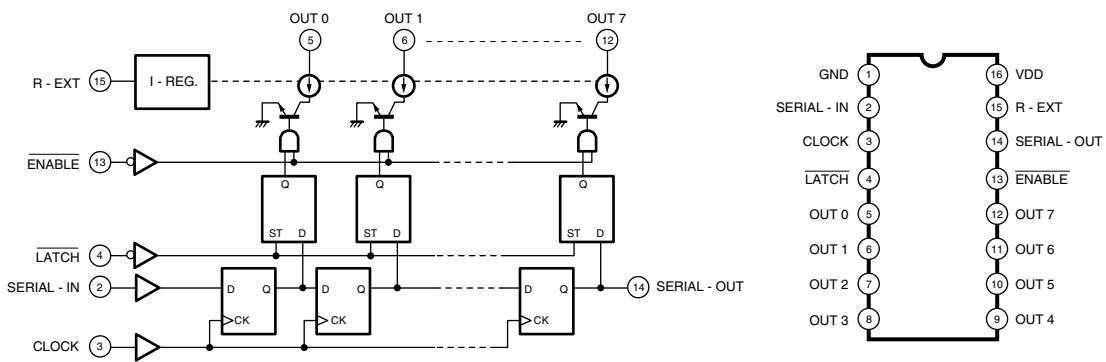
● **TC74HC238AF** (XT163A00)
3 to 8 Line Decoder



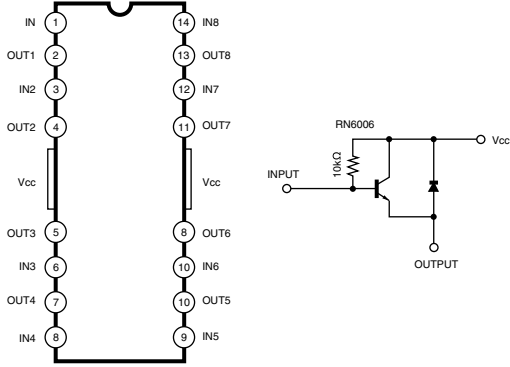
● **TA7291S** (XF557A00)
Motor Driver DRIVER



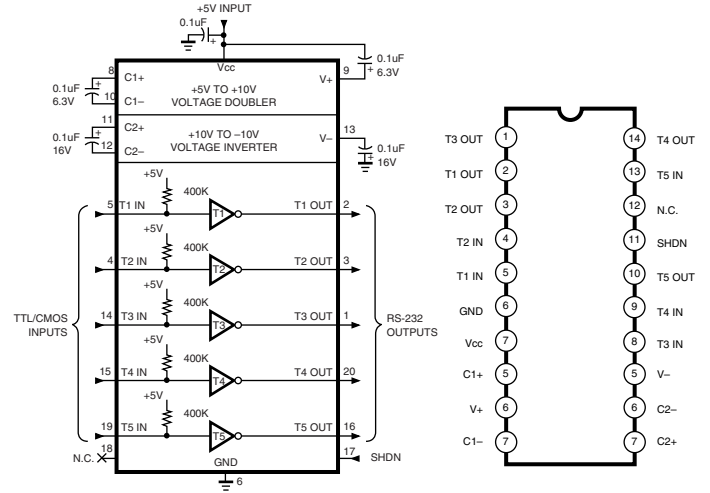
● **TB62705CF** (XV013A00)
LED Driver



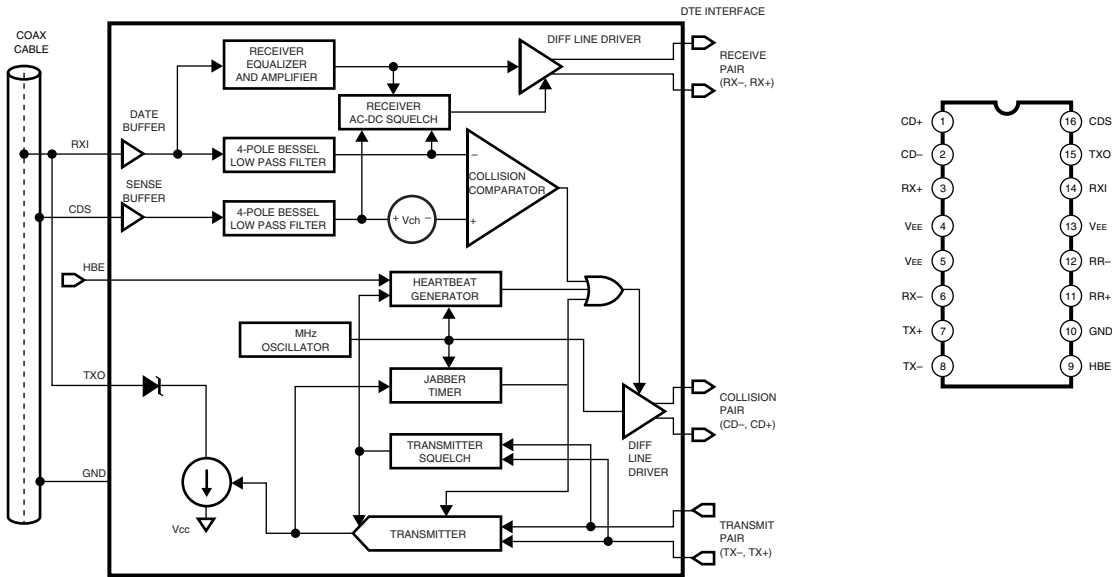
● **TD62M8600F** (XV014A00)
Source Driver



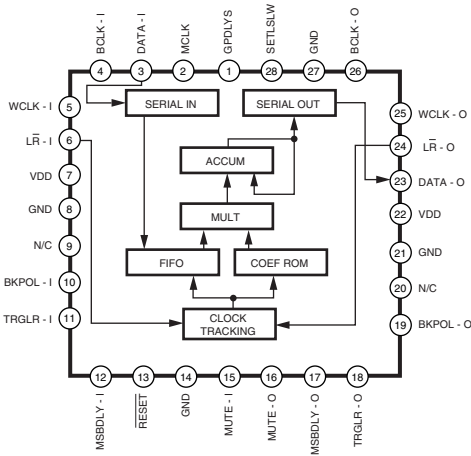
● **MAX202CSE** (XP113A00)
RS-232 Transceiver



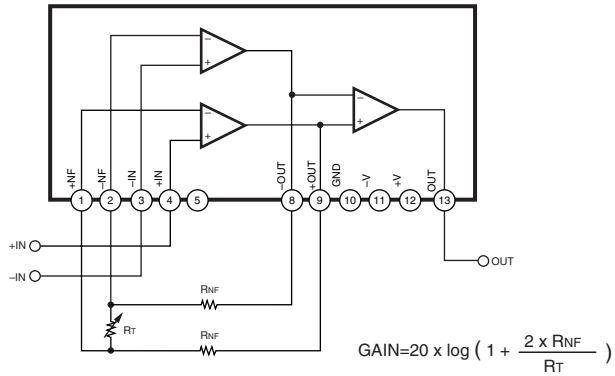
● **DP8392CN** (XW278A00)
CTI



● **AD1890JP (XV453A00)**
ASRC



● **917090 (XK866A00)**
HA



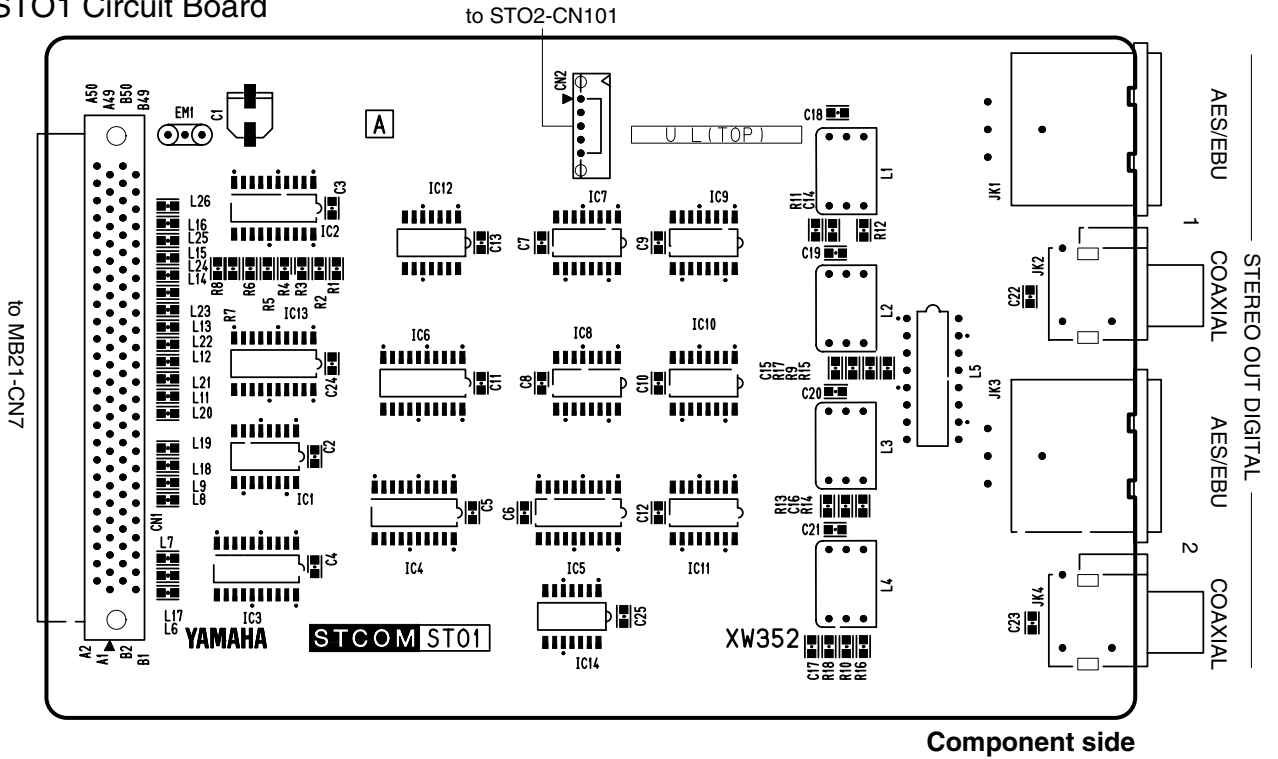
■ **CIRCUIT BOARDS CONTENTS**

ADA2 (XZ523A00)	56-a	LCDIF (XW354B00)	57	PNIS2 (XW319A00).....	92
AEI (XW566A00)	52	LMY4AD (XW291A00)	60	PNIS3 (XW319A00).....	60
CCAS (XW667B00)	65	MB21 (XW355A00)	48	PNIS4 (XW319A00).....	53
CIO (XW567A00).....	50	MB22 (XW354B00)	48	PNM1 (XW321A00)	72
CMU1 (XW662A00).....	62	MB23 (XW669B00)	67	PNM2 (XW322A00)	72
CMU2 (XW663A00).....	63	MIO (XW568A00)	49	PNM3 (XW635A00)	60
CNDS1 (XY193A00).....	54	MO1-2 (XZ522A00)	56-b	PNM4 (XW635A00)	55
CNDS2 (XW538A00).....	53	MO2-2 (XZ522A00)	56-b	PNOS1C (XW635A00)	83
CNDS3 (XY194A00).....	57	MSCPU (XW323B00).....	76	PNOS1L (XW532A00).....	82
CRDC1 (XW671A00).....	75	MT1 (XW535C00).....	61	PNOS1R (XW636A00)	81
CRDC2 (XW672A00).....	75	MT2 (XW536A00).....	70	PNOS2 (XW553A00).....	78
CUTBVL2 (XZ527A00).....	68	MT3 (XW536A00).....	71	PNOS3 (XW635A00).....	80
DRL (XW326C00)	69	MTCPU (XW353B00)	46	PNOS4 (XW533A00).....	75
DRN (XW326C00)	69	MTG (XW354B00)	61	PNOS5 (XW635A00).....	78
DRS (XW326C00)	69	OSCPU (XW534B00)	88	PNOS6 (XW635A00).....	80
EIF (XW667B00)	64	PCIF (XW670C00).....	58	PS2HP (XW354B00)	45
HMVOLA2 (XZ527A00).....	68	PHNAB2 (XZ527A00)	69	STI (XW351A00)	51
HMVOLB2 (XZ527A00).....	68	PNC1 (XW665B00)	66	STO1 (XW352A00).....	45
INCPU (XW317B00).....	94	PNC2 (XW354B00)	55	STO2 (XW352A00).....	45
ISCPU (XW320B00)	86	PNI1 (XW315A00).....	96	TB1-2 (XZ527A00)	80
LAMPVR (XW354B00)	54	PNI2 (XW316A00).....	83	TB1CAN2 (XZ527A00).....	80
LCDC (XW354B00)	54	PNIS1 (XW318A00).....	90		

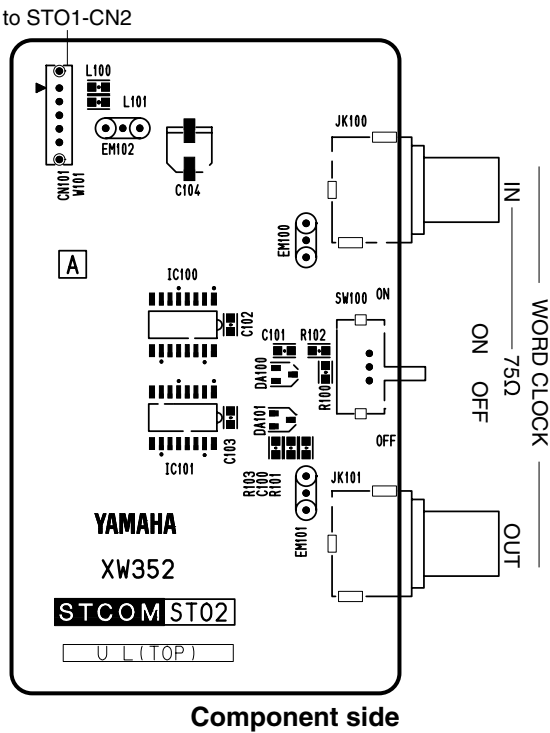
Note: See parts list for details of circuit board component parts.

CIRCUIT BOARDS

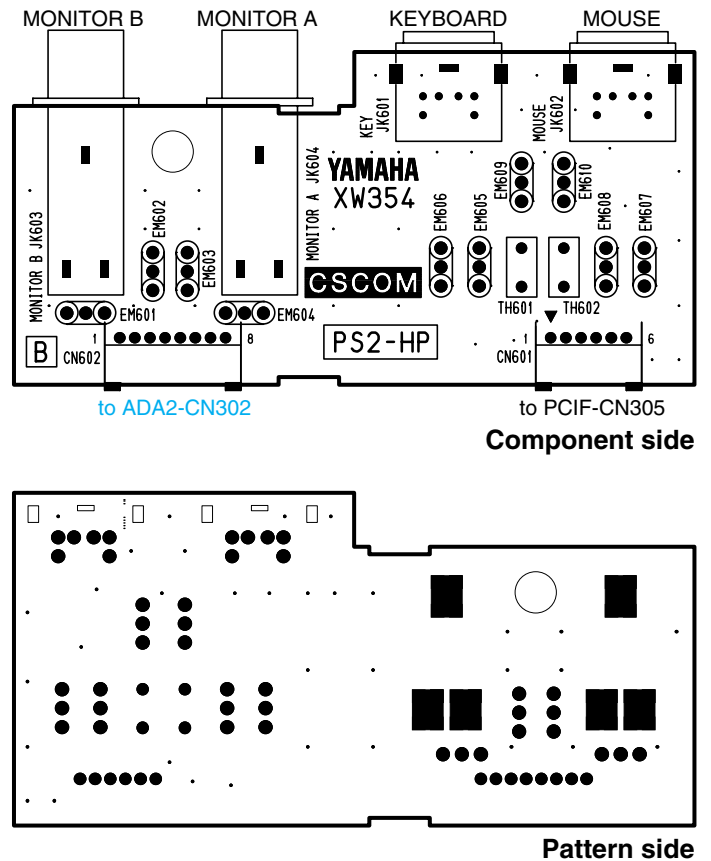
● STO1 Circuit Board





● STO2 Circuit Board

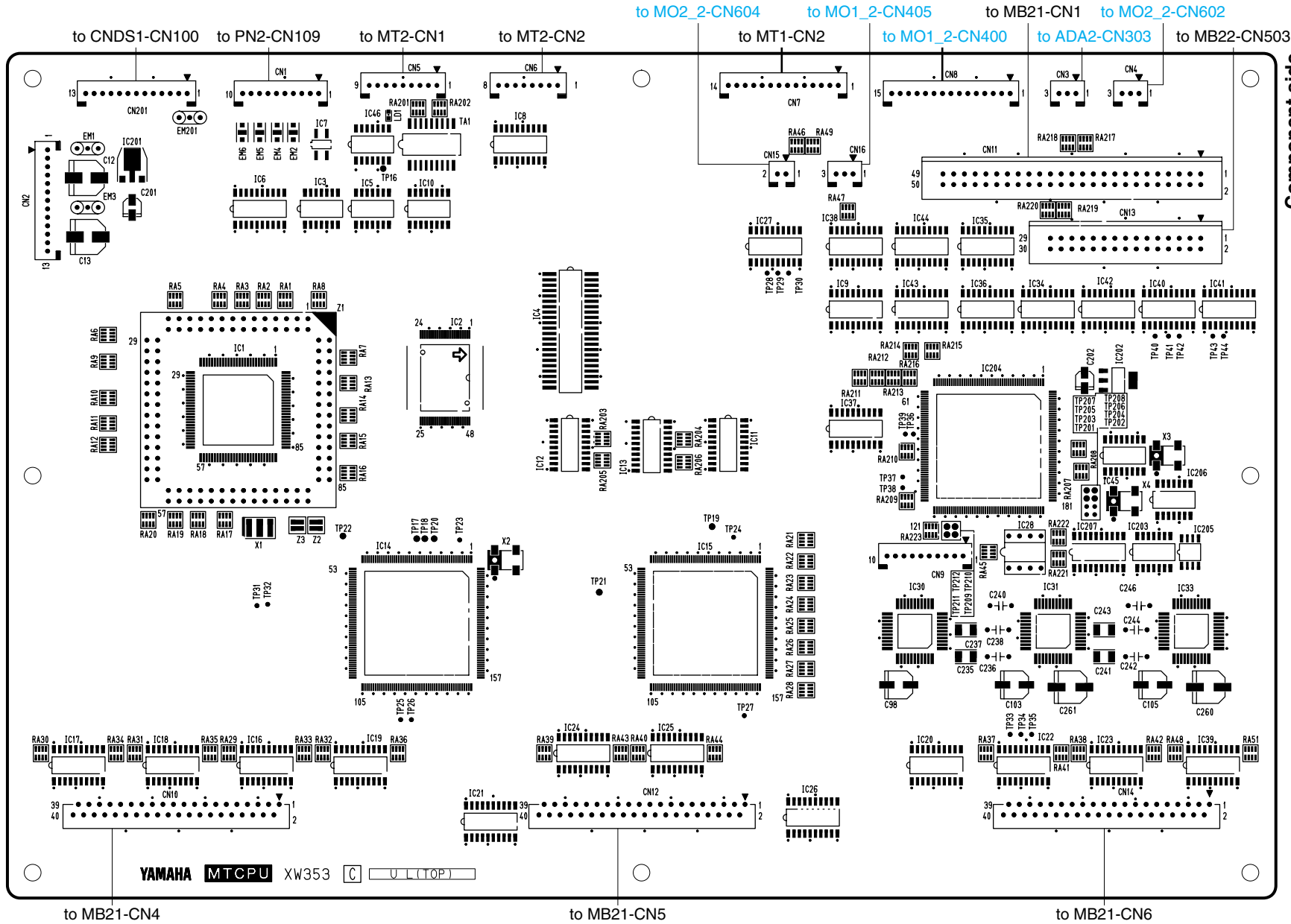


● PS2HP Circuit Board



STO1,STO2: 3NA-V504660 
 PS2HP: 3NA-V454540 

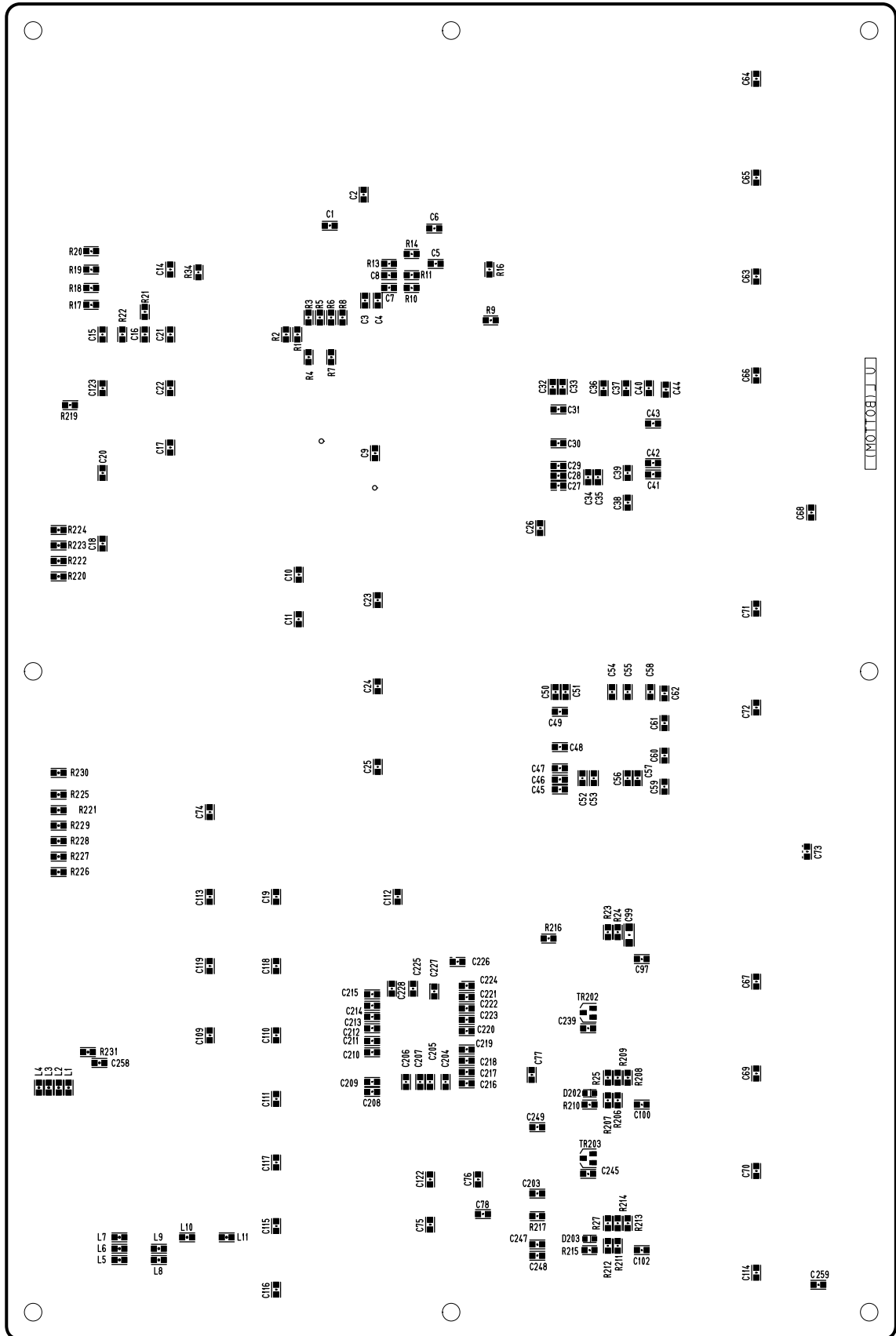
● MTCPU Circuit Board



Component side

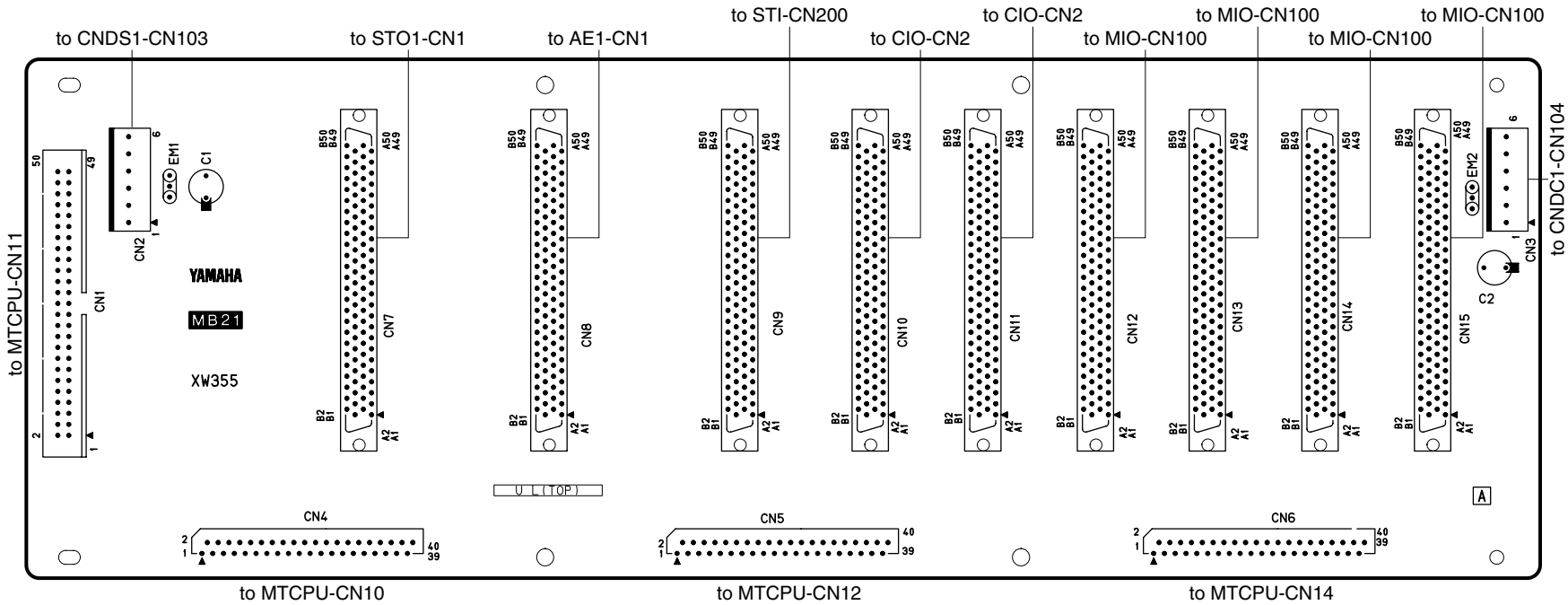
3NA-V411320

● MTCPU Circuit Board



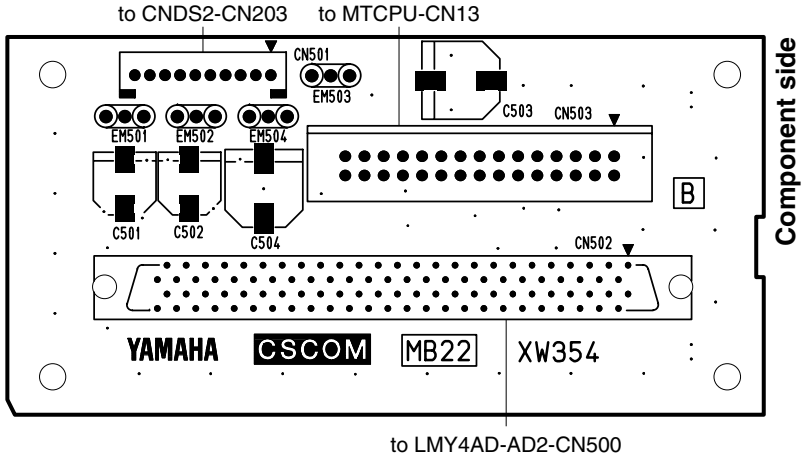
Pattern side

● MB21 Circuit Board

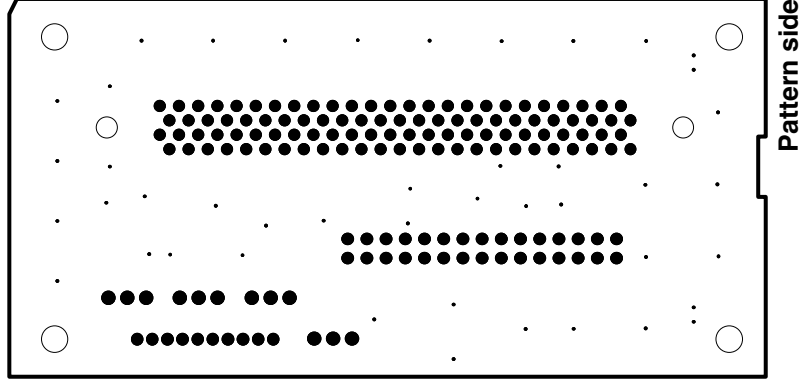


Component side

● MB22 Circuit Board



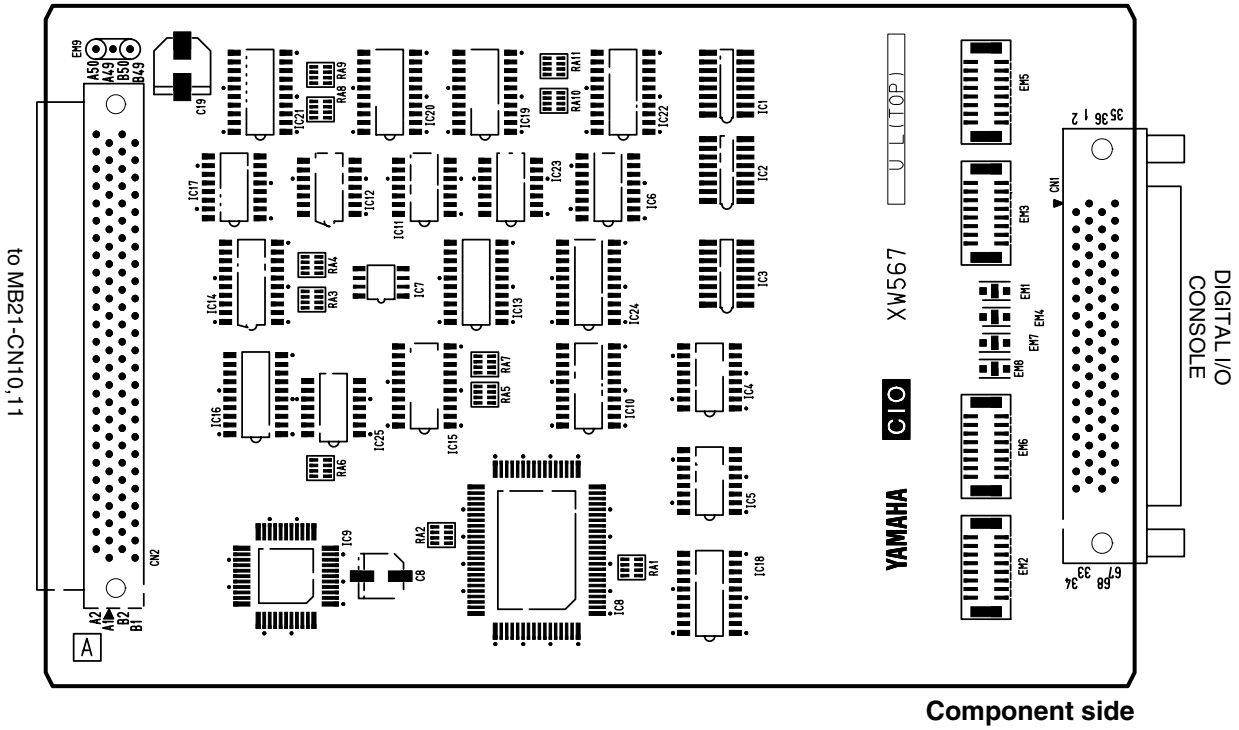
Component side



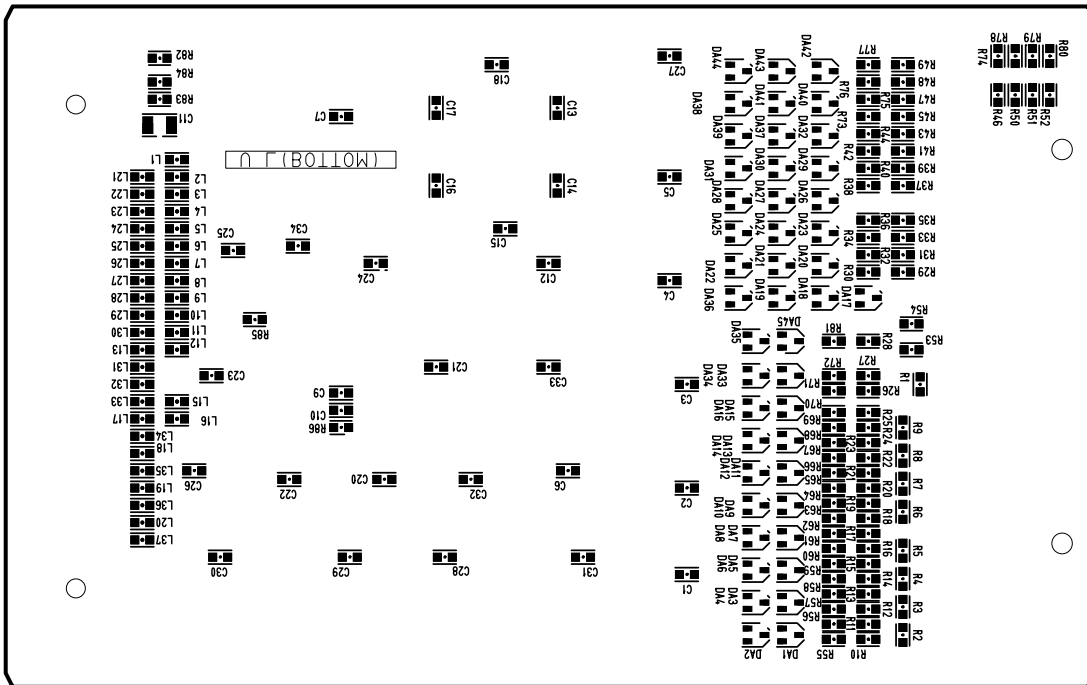
Pattern side

MB21: [3NA-V411330](#)
 MB22: [3NA-V454540](#)

● CIO Circuit Board

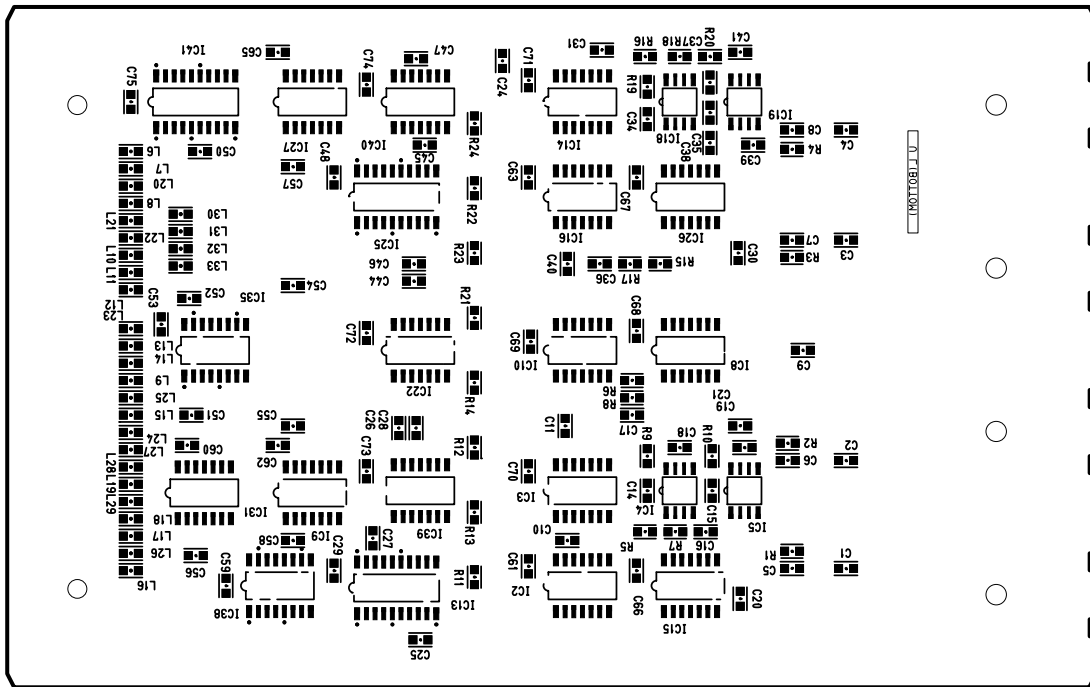
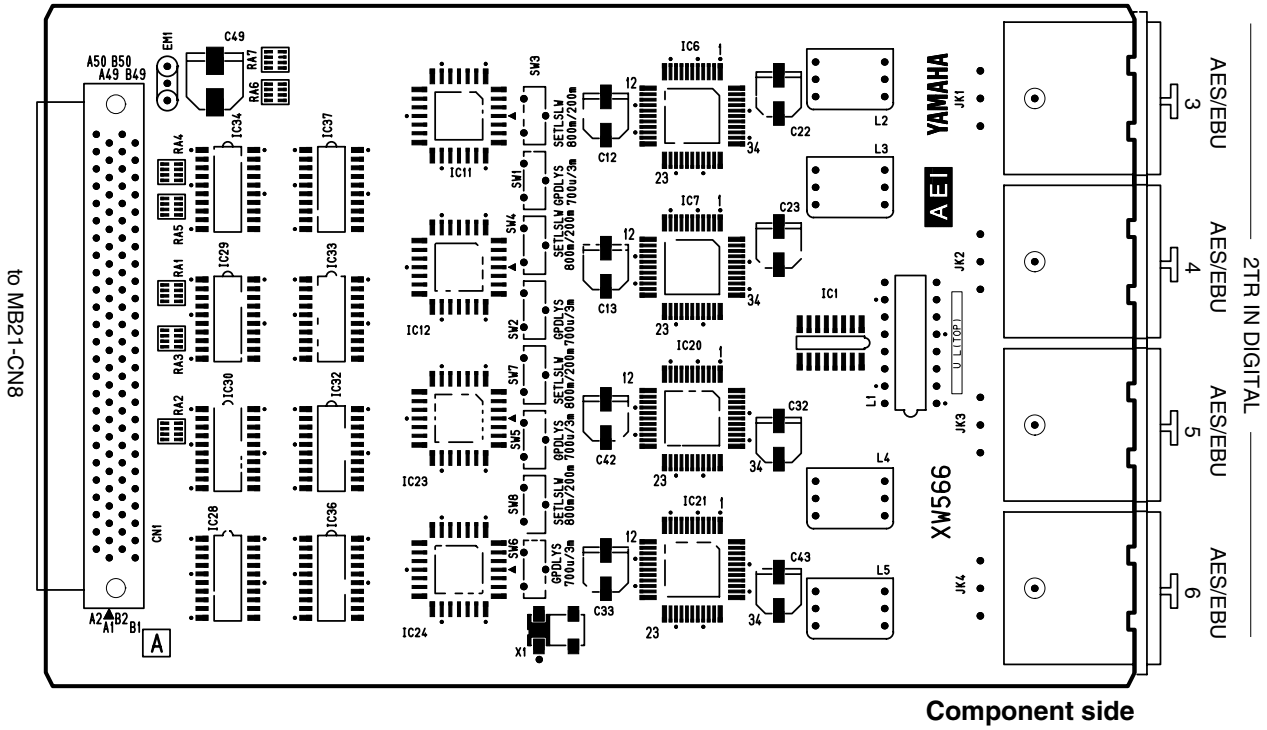


Component side

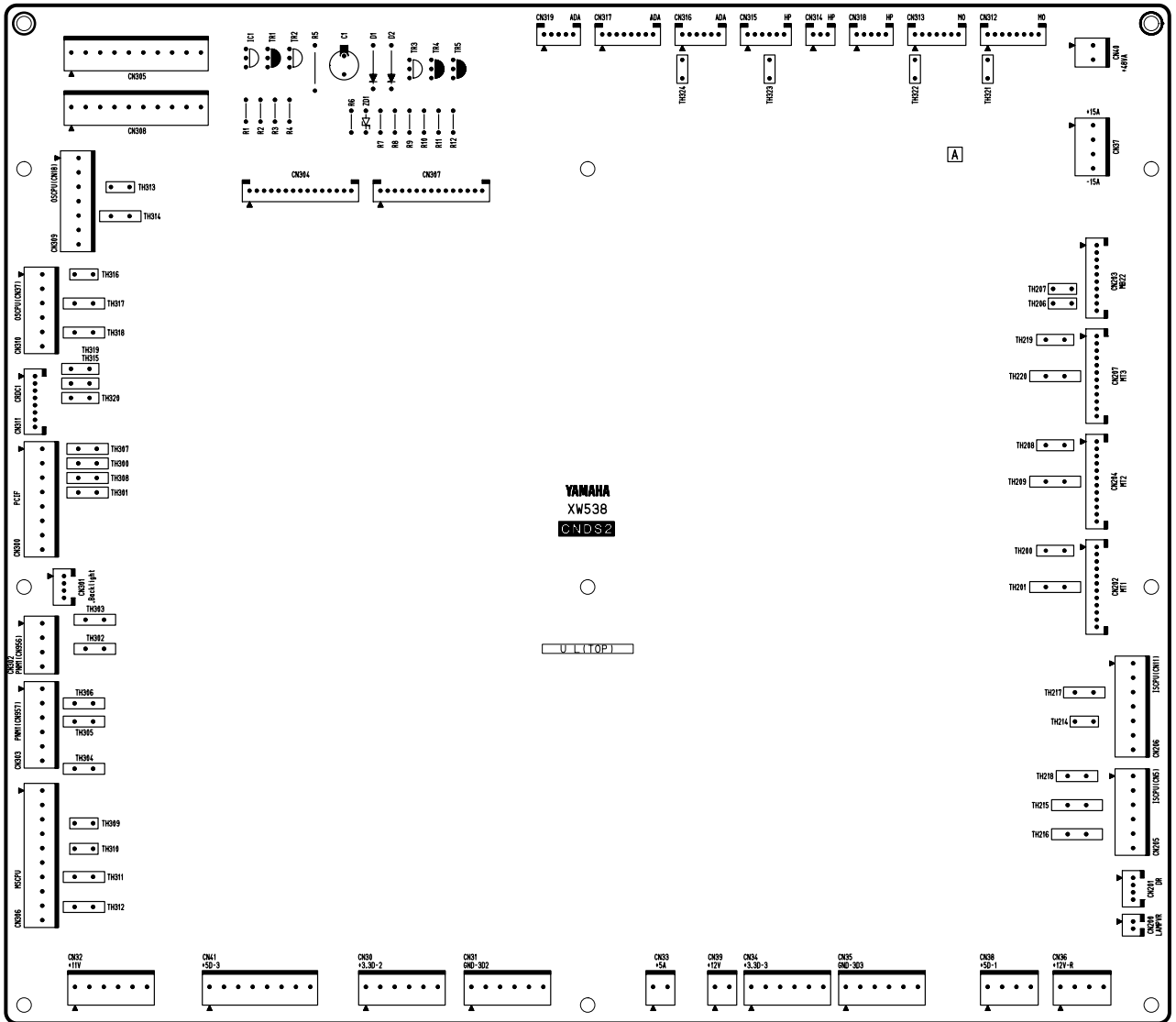


Pattern side

● AEI Circuit Board



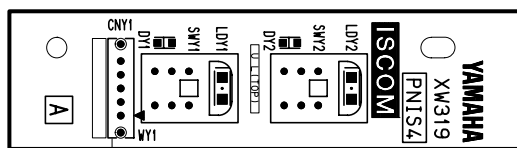
● CNDS2 Circuit Board



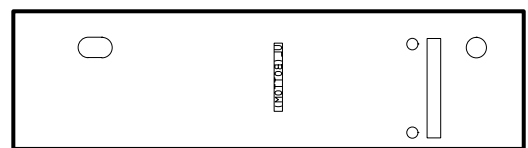
Component side

- | | | | |
|-----------------------------|-----------------------------|-----------------------------|------------------------|
| CN30: to Power unit-CN7 | CN39: to Power unit-CN19 | CN206: to ISCPU-CN11 | CN312: to MO1_2-CN404 |
| CN31: to Power unit-CN8 | CN40: to Power unit-CN39 | CN207: to MT3-CN5 | CN313: |
| CN32: to Power unit-CN34,35 | CN41: to Power unit-CN15,16 | CN300: to PCIF-CN101 | CN314: |
| CN33: to Power unit-CN37,38 | CN200: to LAMPVR-CN701 | CN301: to LCD-BACKLIGHT-CN1 | CN315: to TB1_2-CN701 |
| CN34: to Power unit-CN9 | CN201: to DRL(3)-CN100 | CN302: to PNM1-CN956 | CN316: to ADA2-CN102 |
| CN35: to Power unit-CN10 | CN202: to MT1-CN4 | CN303: to PNM1-CN957 | CN317: to ADA2-CN101 |
| CN36: to Power unit-CN36 | CN203: to MB22-CN501 | CN306: to MSCPU-CN44 | CN318: to PHNAB2-CN301 |
| CN37: to Power unit-CN40 | CN204: to MT2-CN5 | CN309: to OSCPU-CN18 | CN319: to ADA2-CN301 |
| CN38: to Power unit-CN11,12 | CN205: to ISCPU-CN5 | CN310: to OSCPU-CN37 | |

● PNIS4 Circuit Board



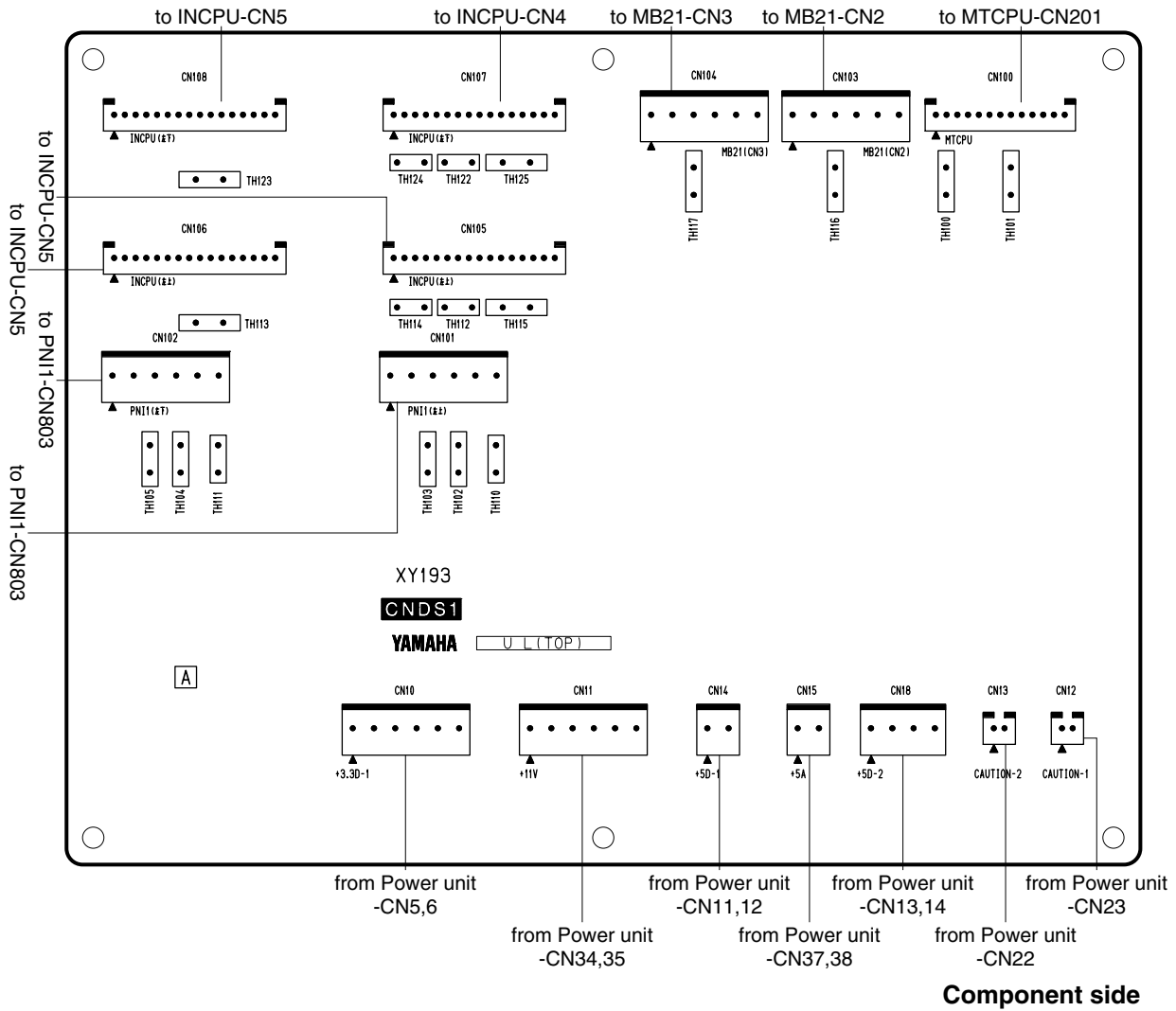
Component side



Pattern side

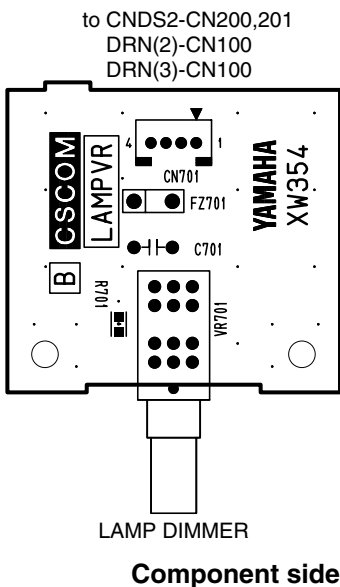
- CNDS2: 3NA-V433400
- PNIS4: 3NA-V411140

● CNDS1 Circuit Board



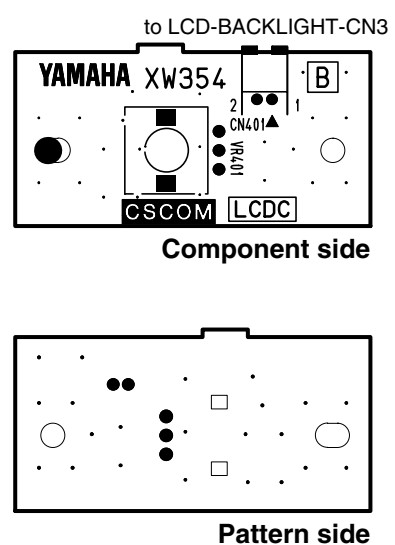
Component side

● LAMPVR Circuit Board





Component side

● LCDC Circuit Board

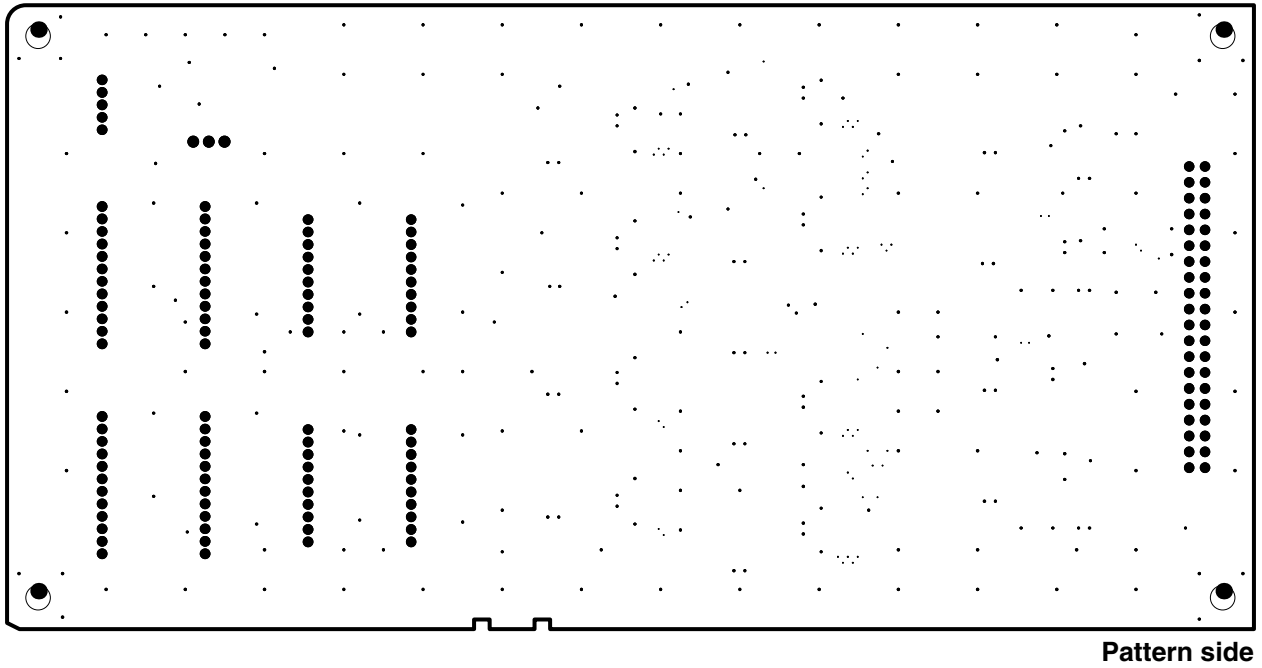
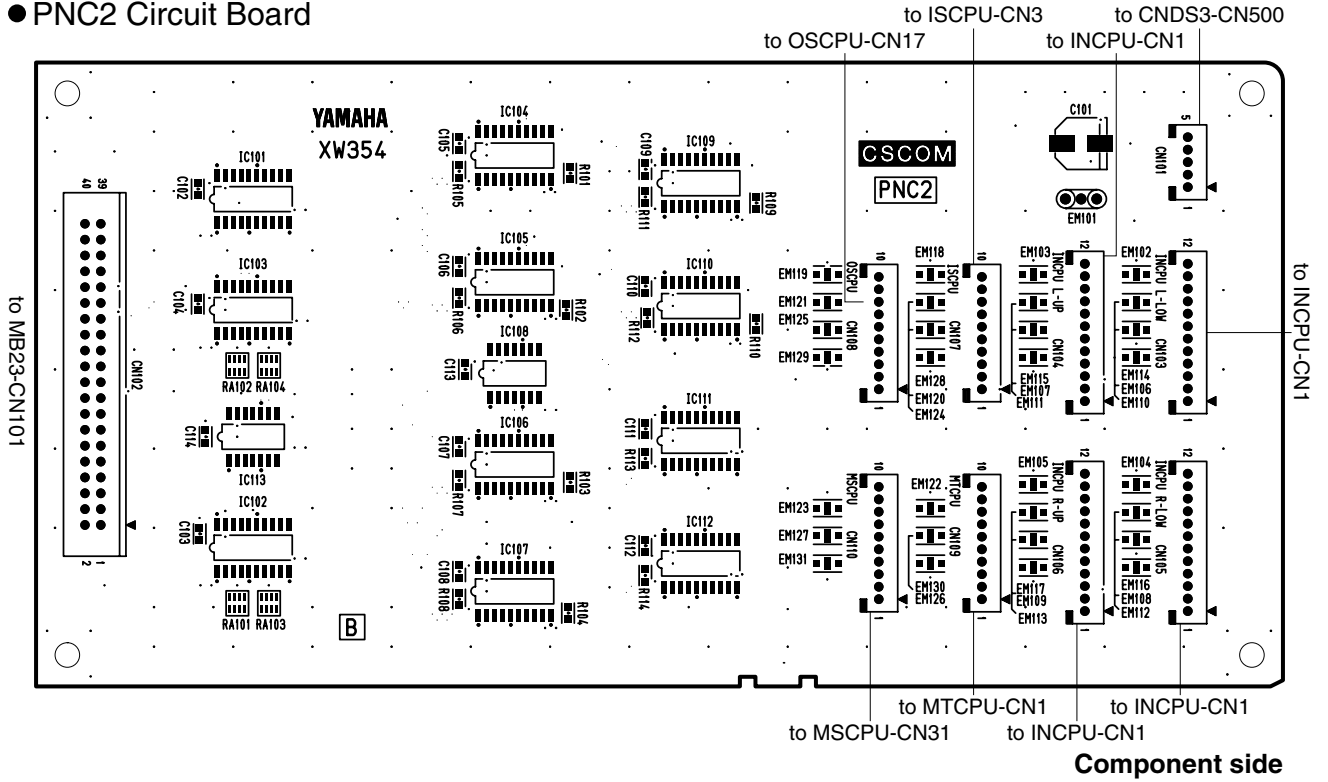


Component side

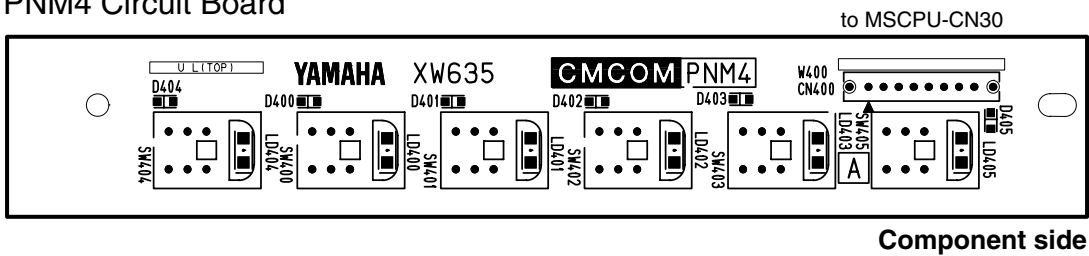
Pattern side



CNDS1: 3NA-V506560 
 LAMPVR, LCDC: 3NA-V454540 

● PNC2 Circuit Board

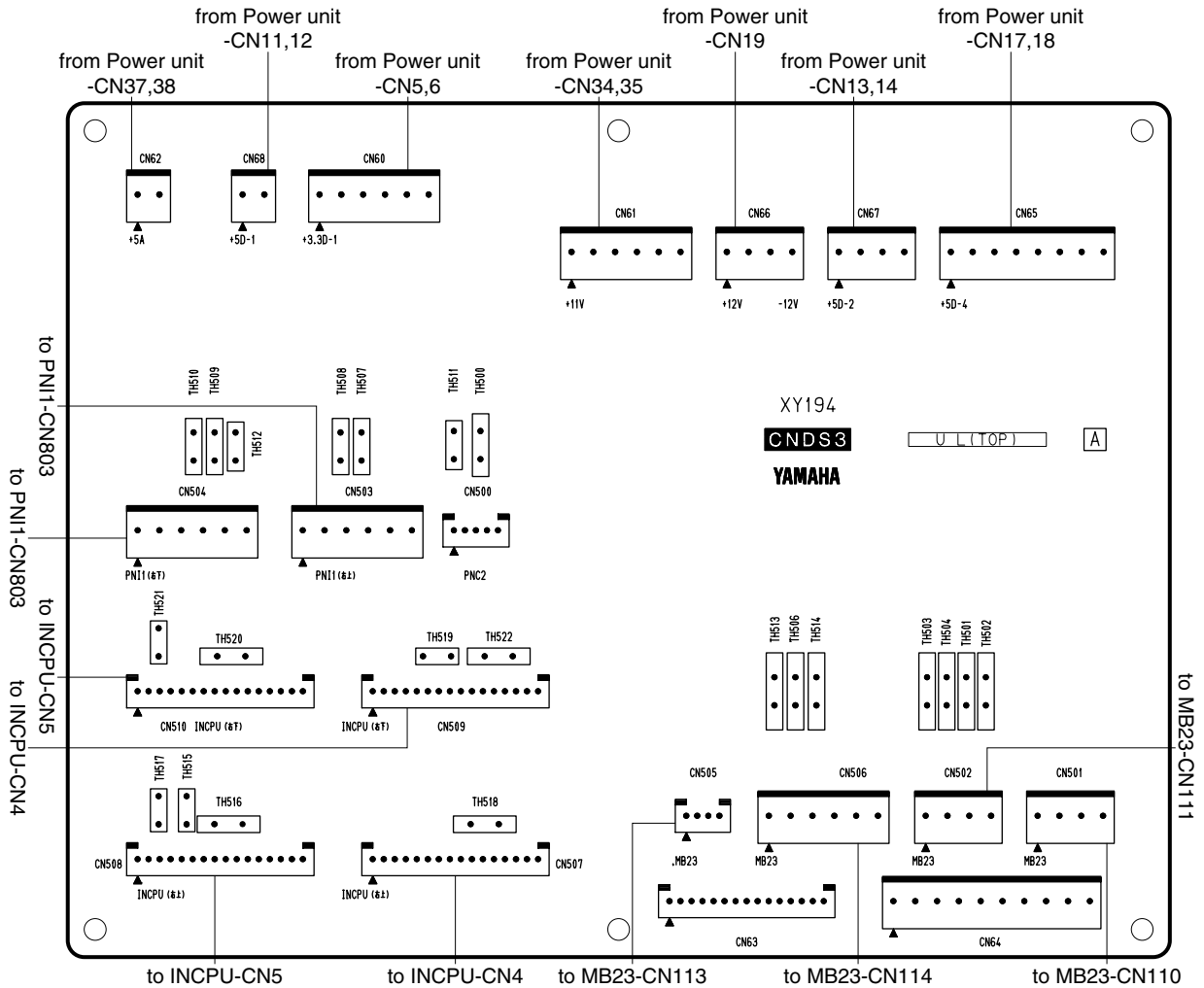


● PNM4 Circuit Board



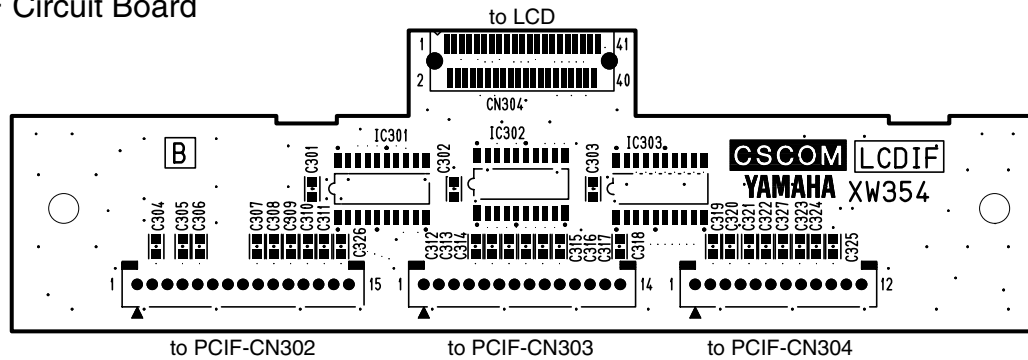
PNC2: 3NA-V454540 
 PNM4: 3NA-V445280 

● CNDS3 Circuit Board

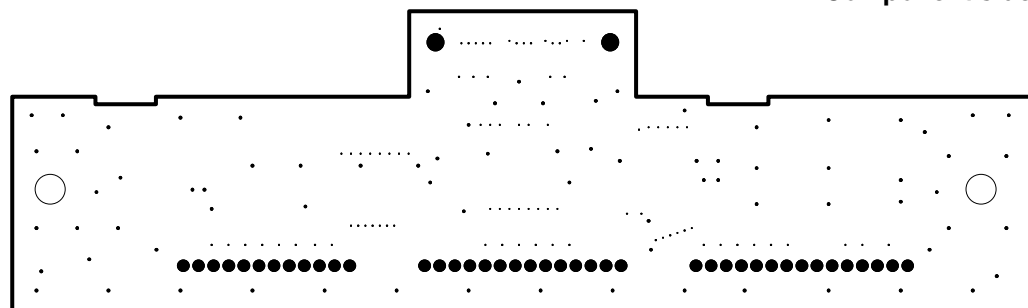


Component side

● LCDIF Circuit Board



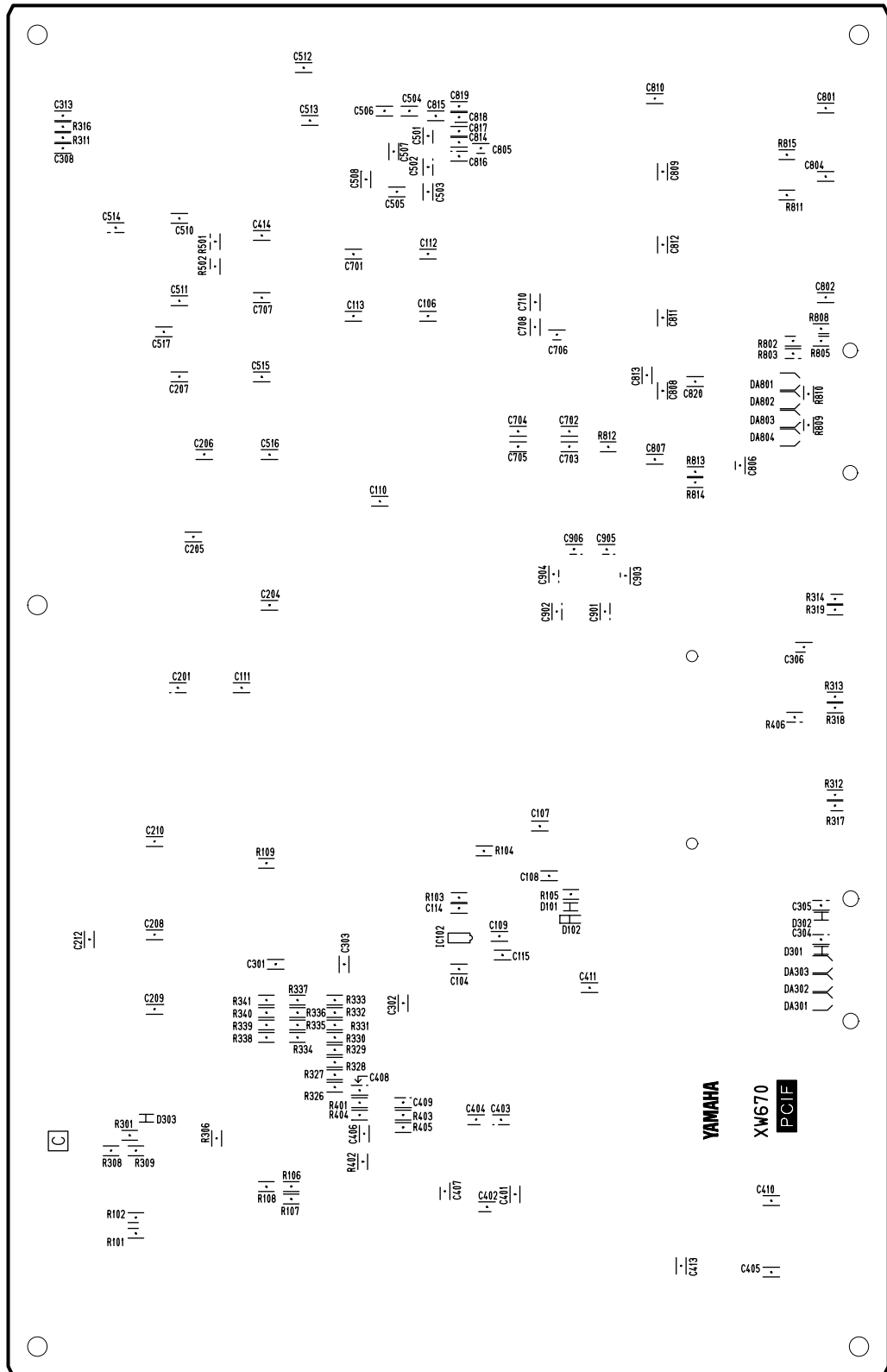
Component side



Pattern side

CNDS3: 3NA-V506570
 LCDIF: 3NA-V454540

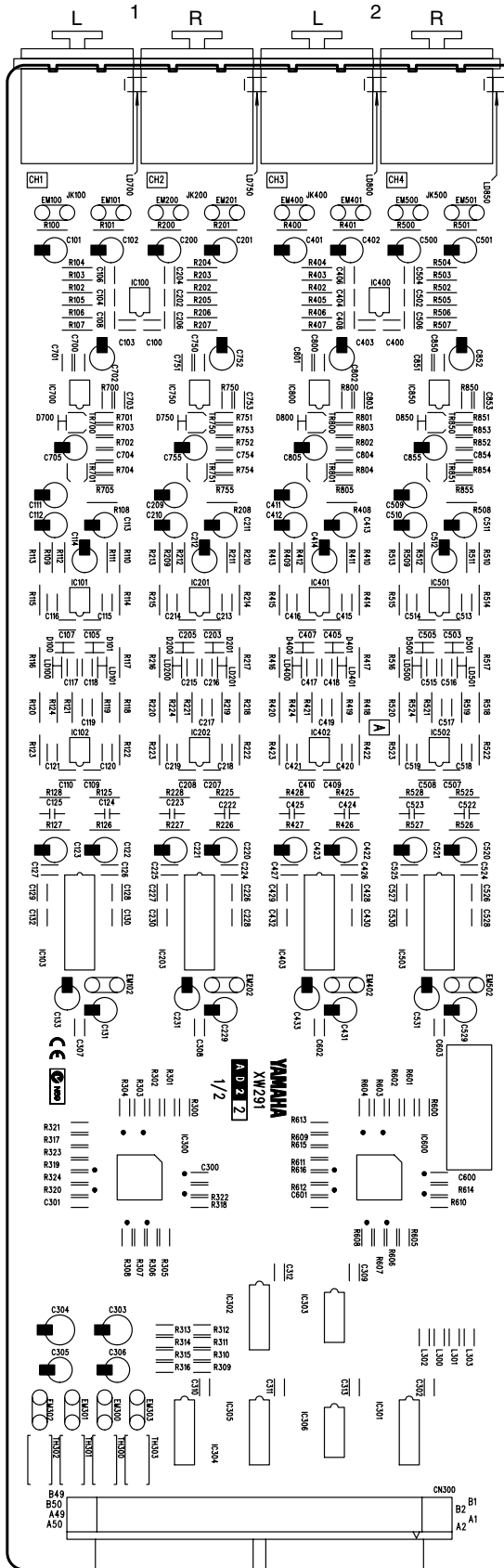
● PCIF Circuit Board



Pattern side

● LMY4AD Circuit Board

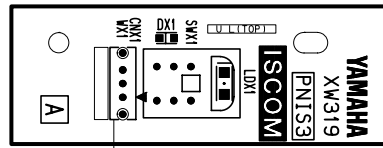
2-TRACK IN ANALOG



to MB22-CN502

Component side

● PNIS3 Circuit Board



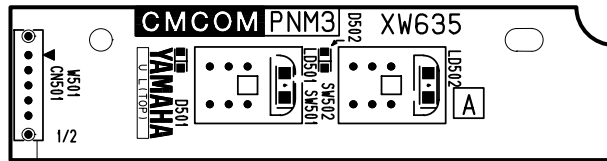
to ISCPU-CN16

Component side



Pattern side

● PNM3 Circuit Board



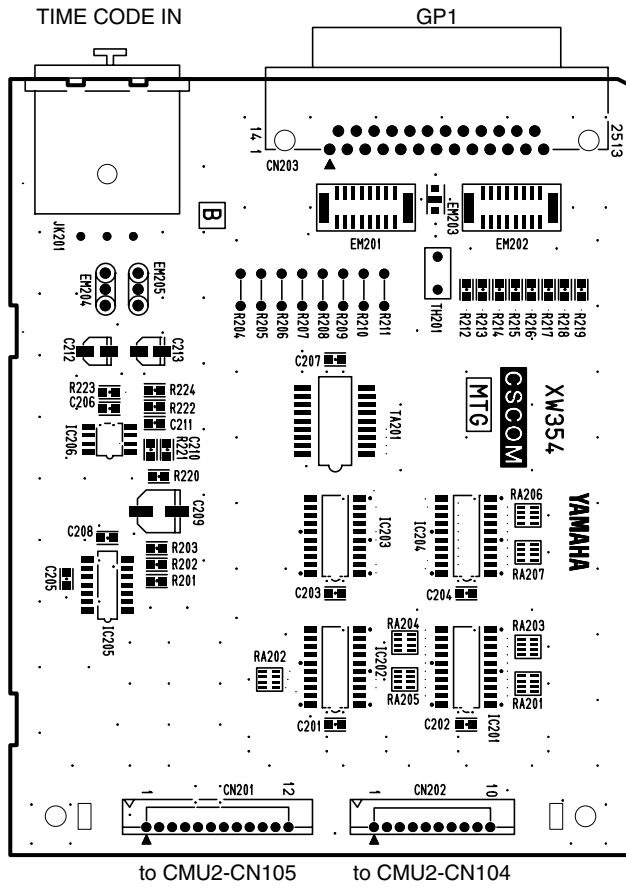
to MSCPU-CN29
MSCPU-CN46

Component side

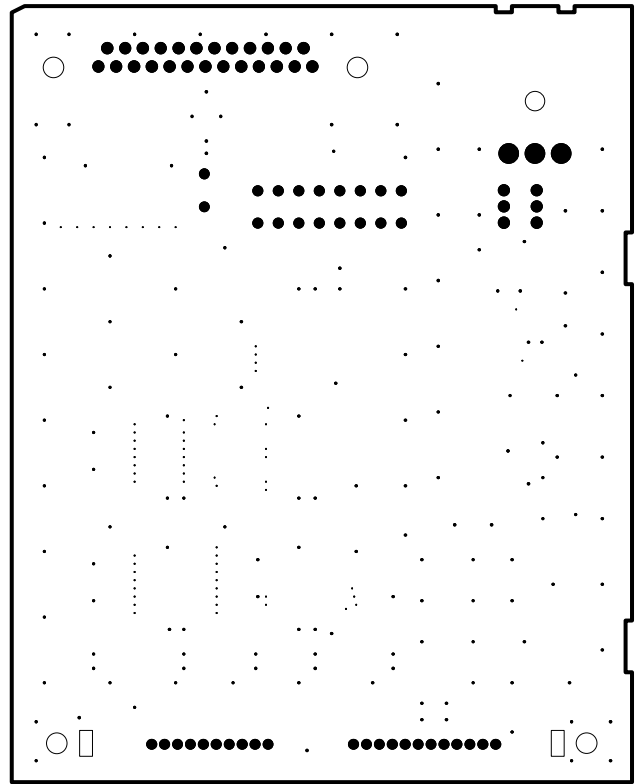
LMY4AD:
PNIS3:
PNM3:

3NA-V491400
3NA-V411140
3NA-V445280

● MTG Circuit Board

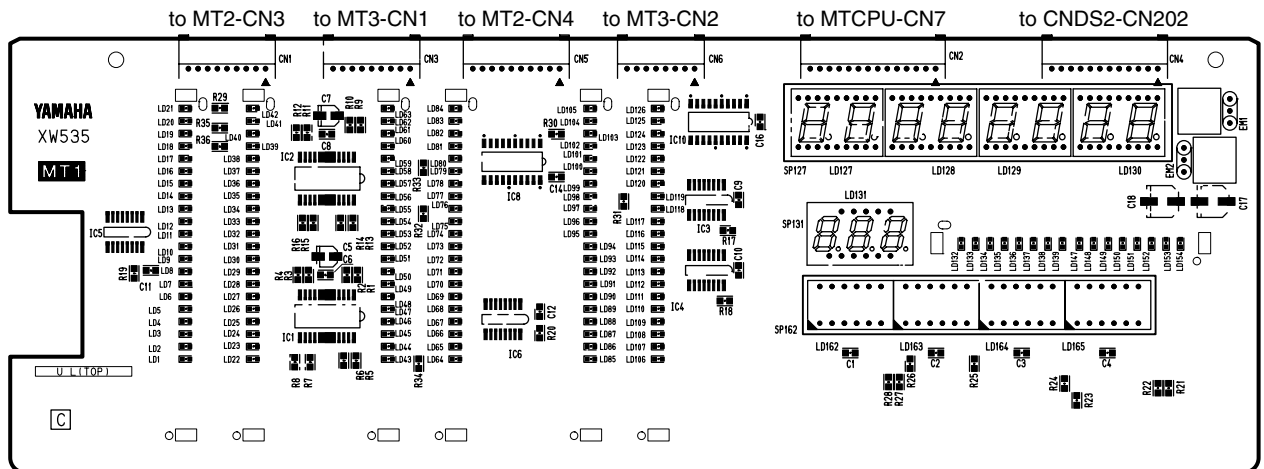


Component side





Pattern side

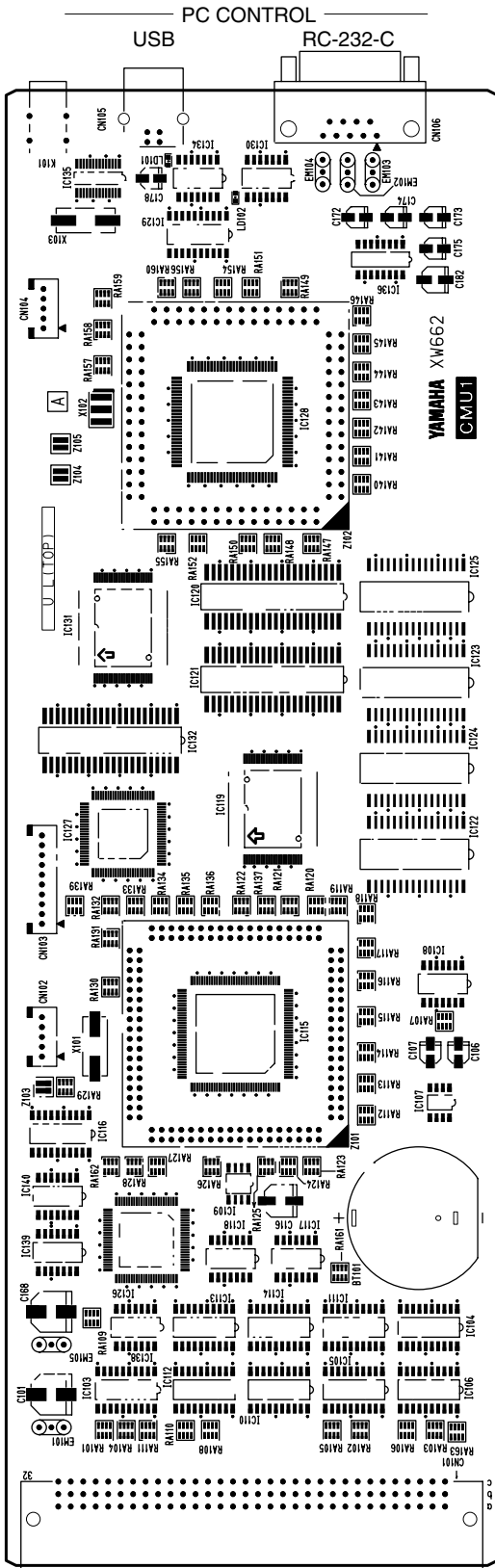
● MT1 Circuit Board



Component side

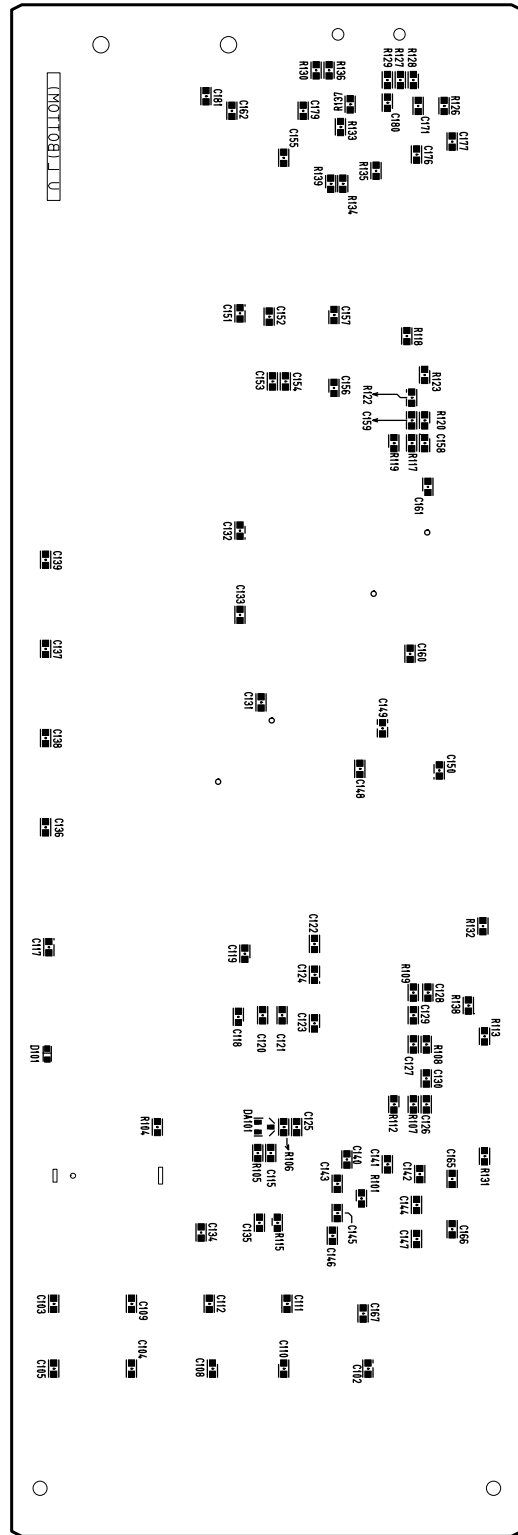
MTG: 3NA-V45454 
 MT1: 3NA-V43370 

● CMU1 Circuit Board



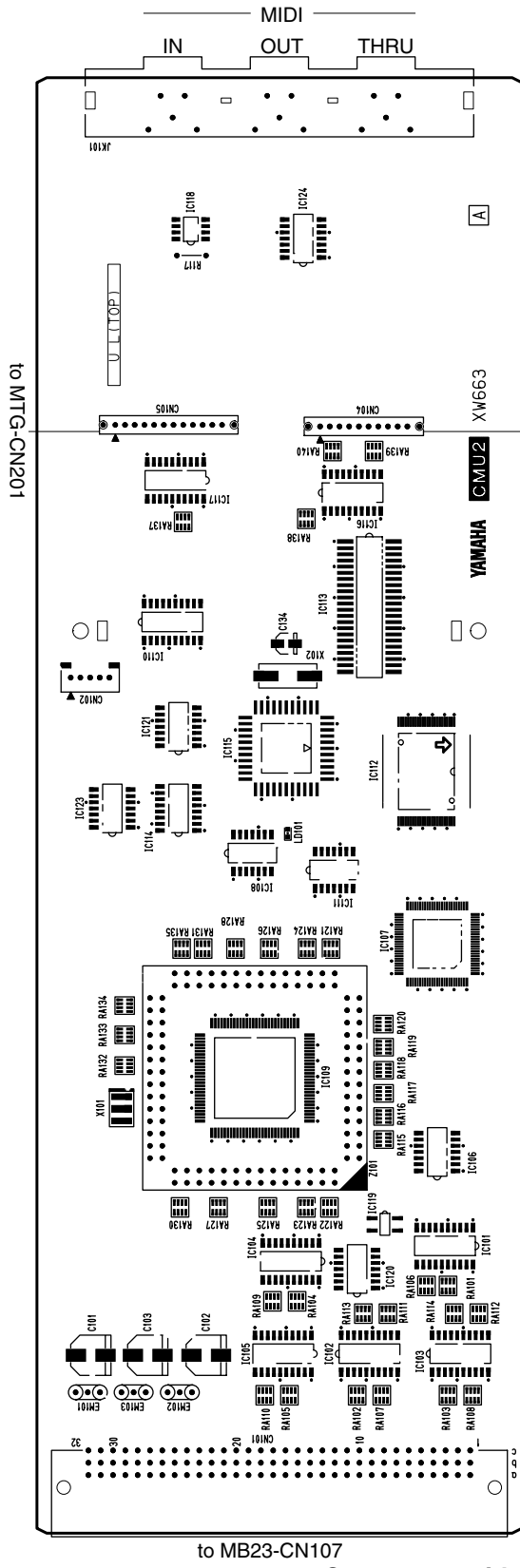
to MB23-CN106

Component side

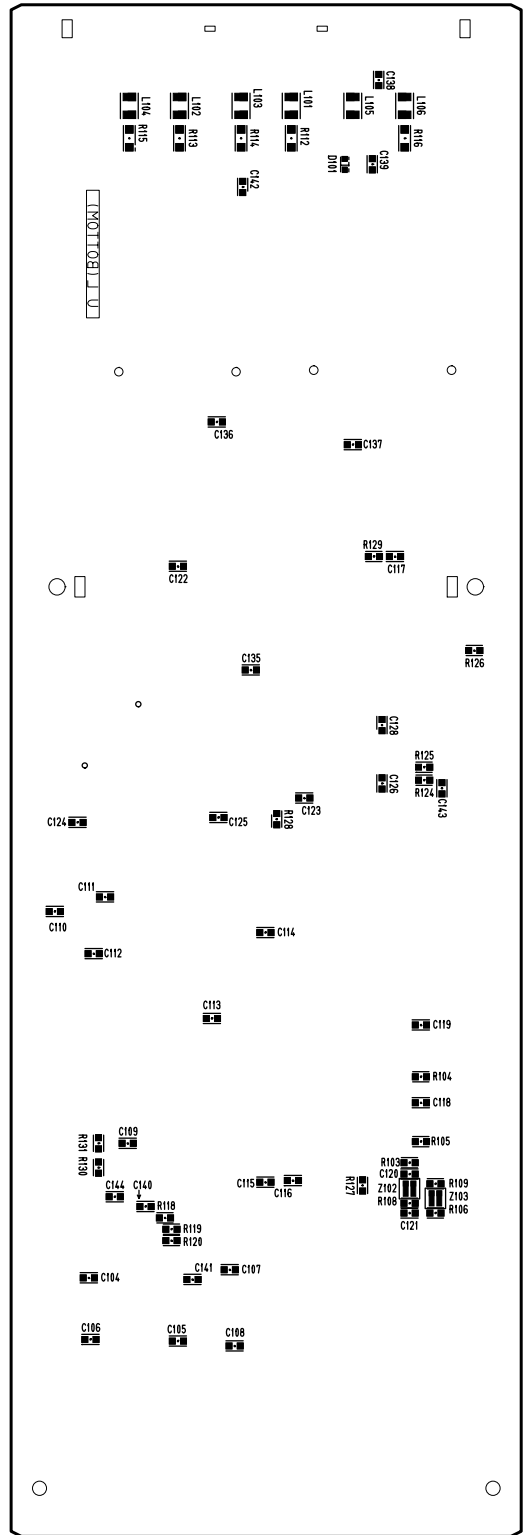


Pattern side

● CMU2 Circuit Board

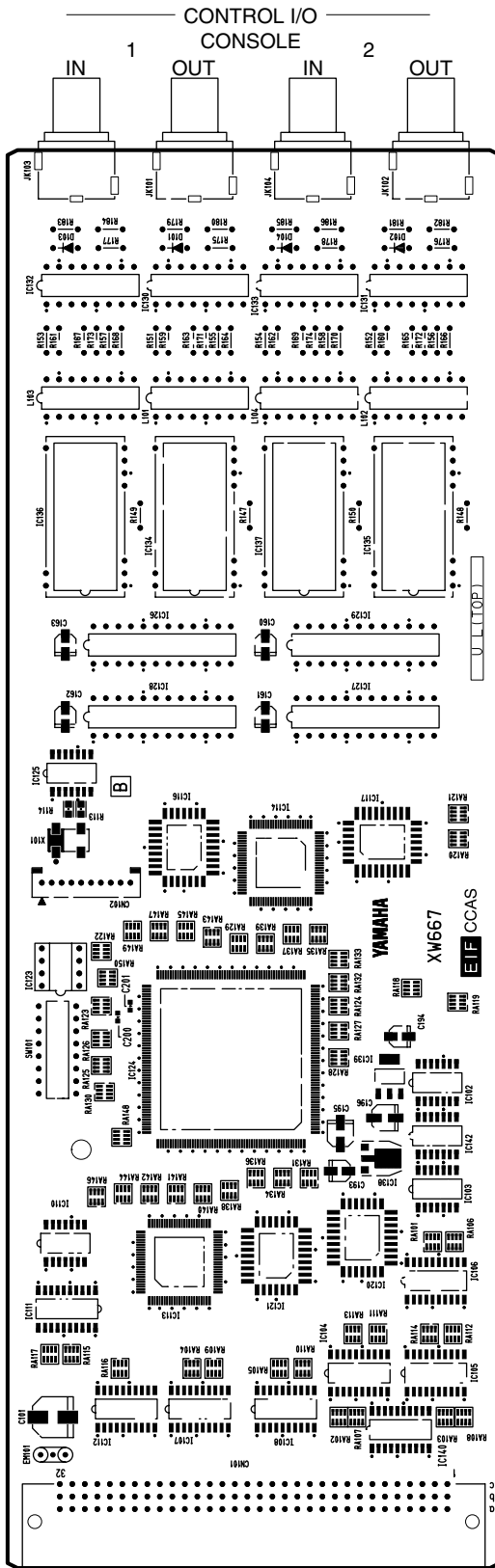


to MB23-CN107
Component side



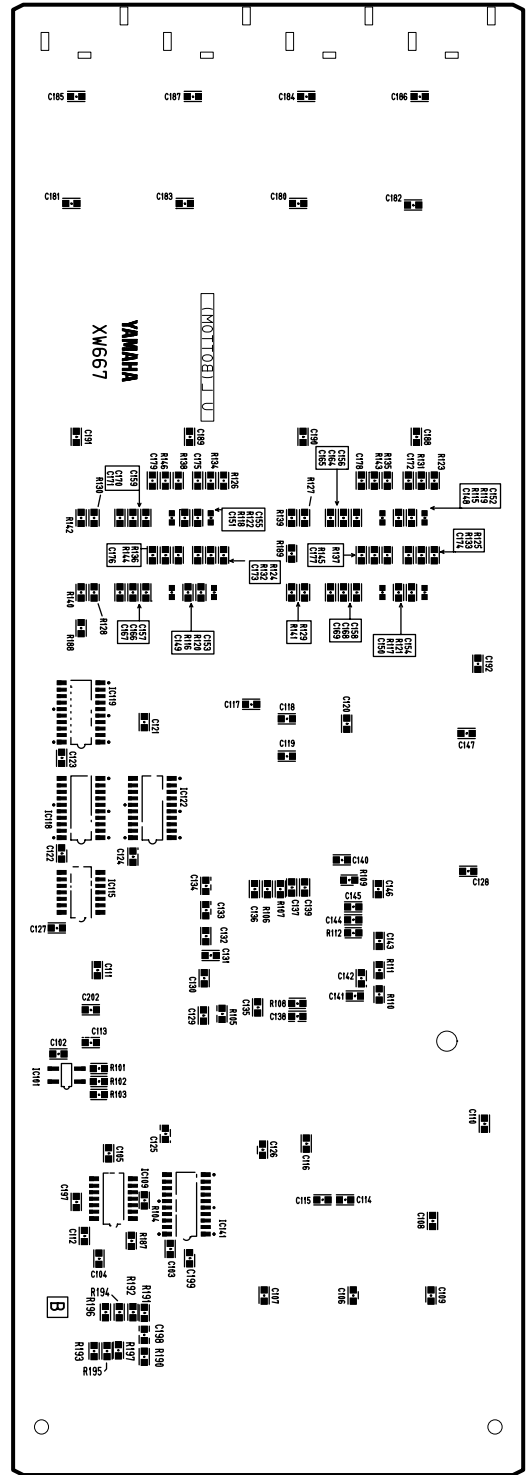
Pattern side

● CCAS Circuit Board



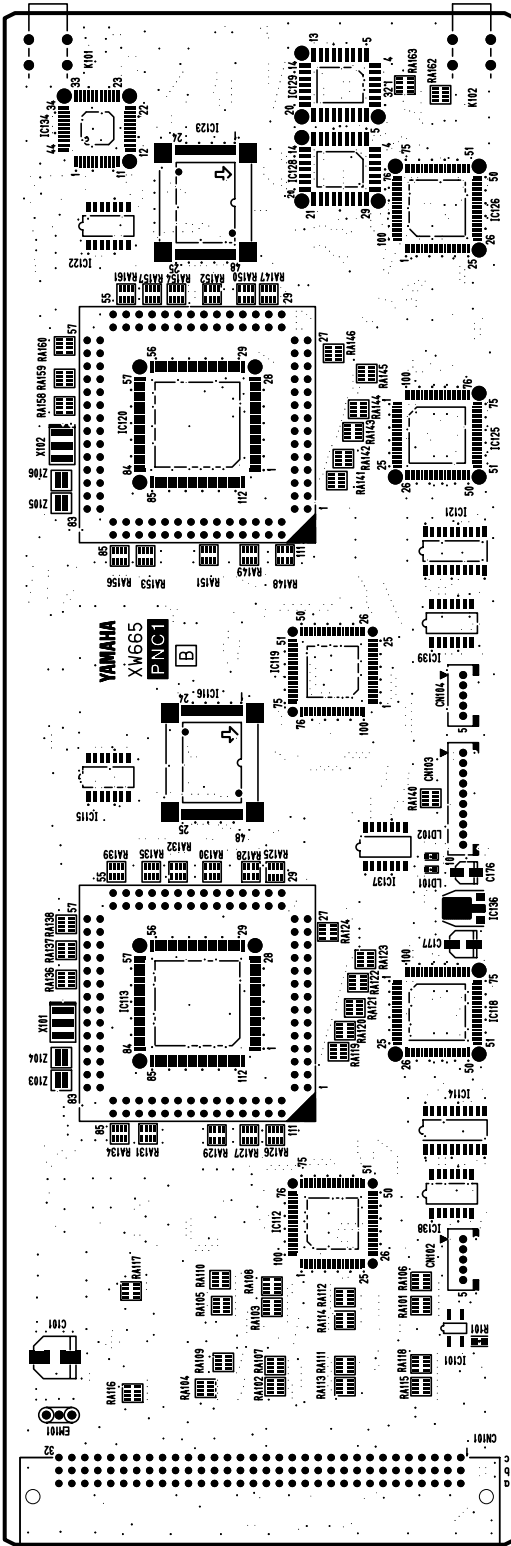
to MB23-CN103

Component side



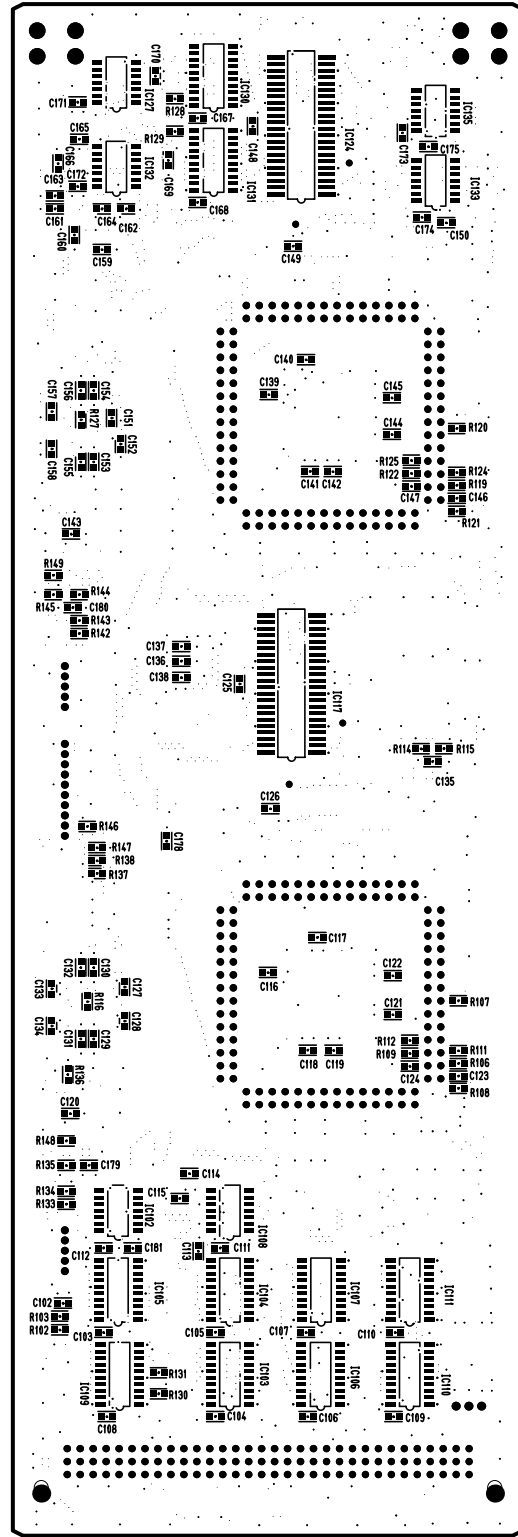
Pattern side

● PNC1 Circuit Board



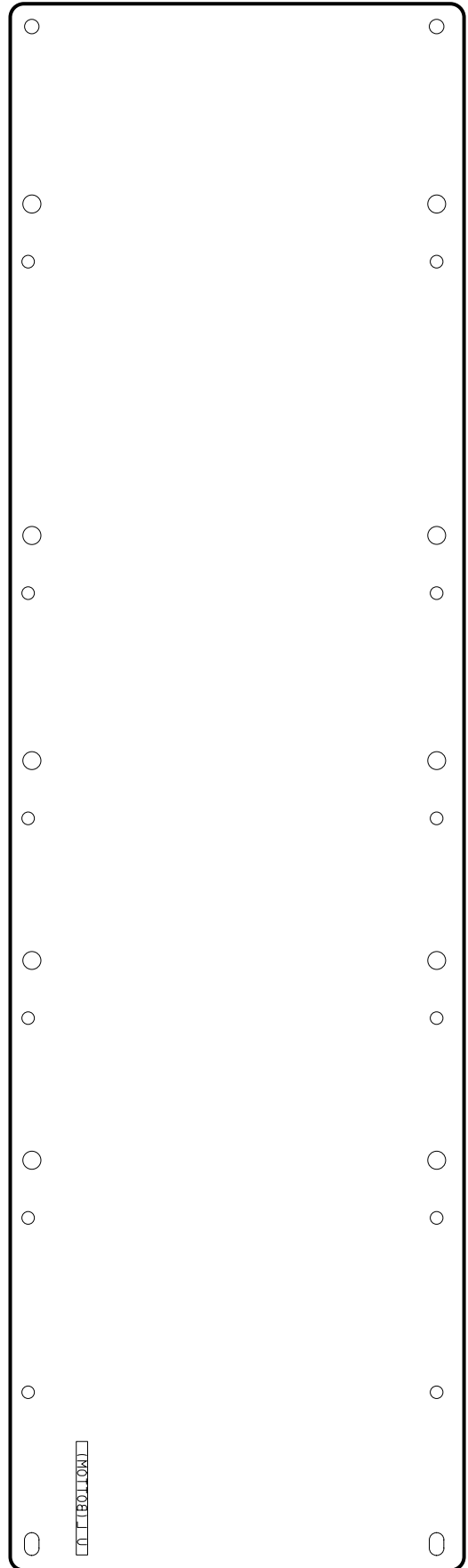
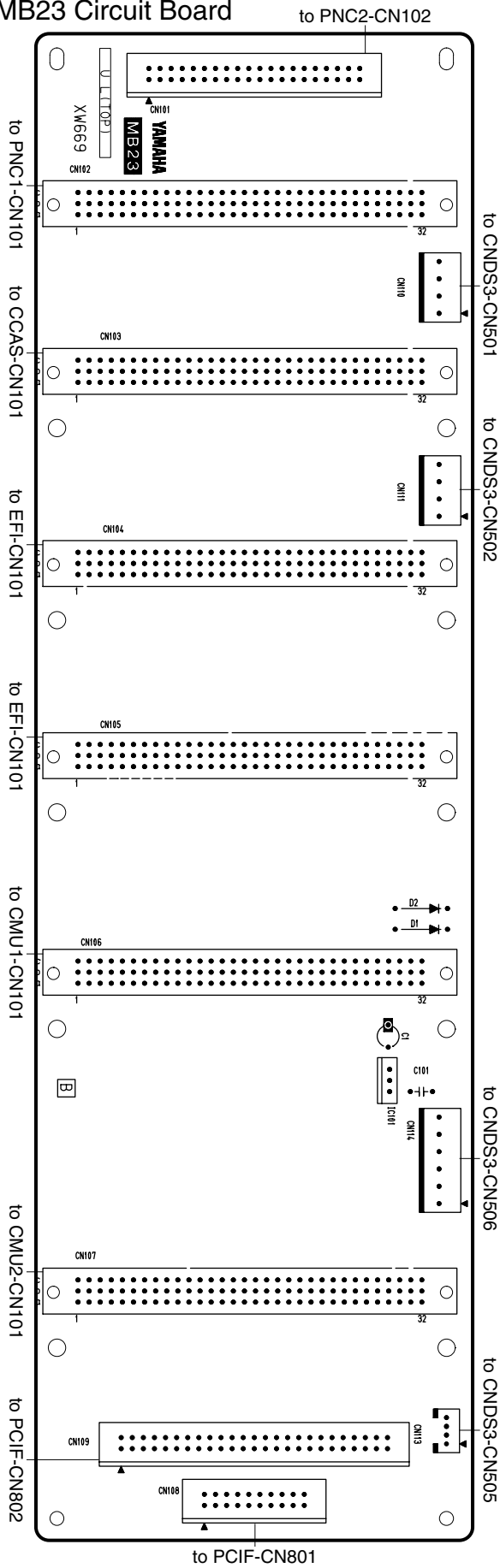
to MB23-CN102

Component side

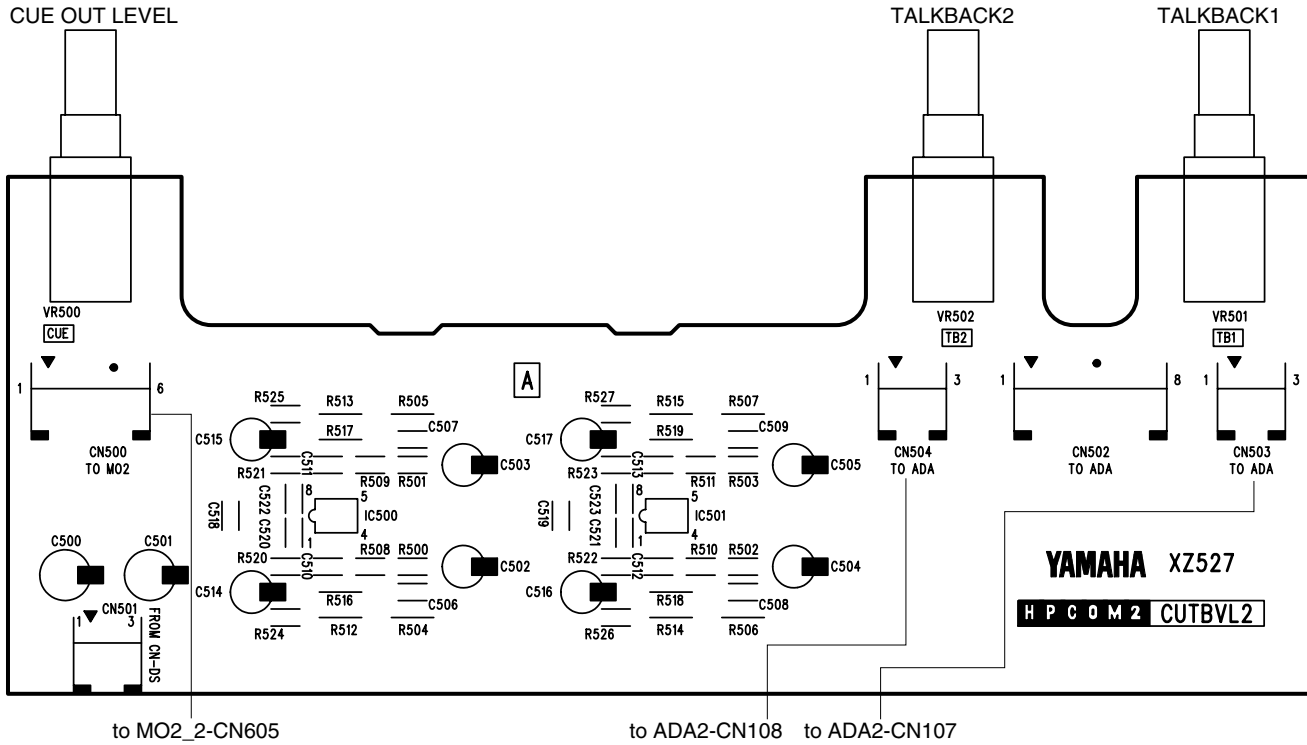


Pattern side

● MB23 Circuit Board

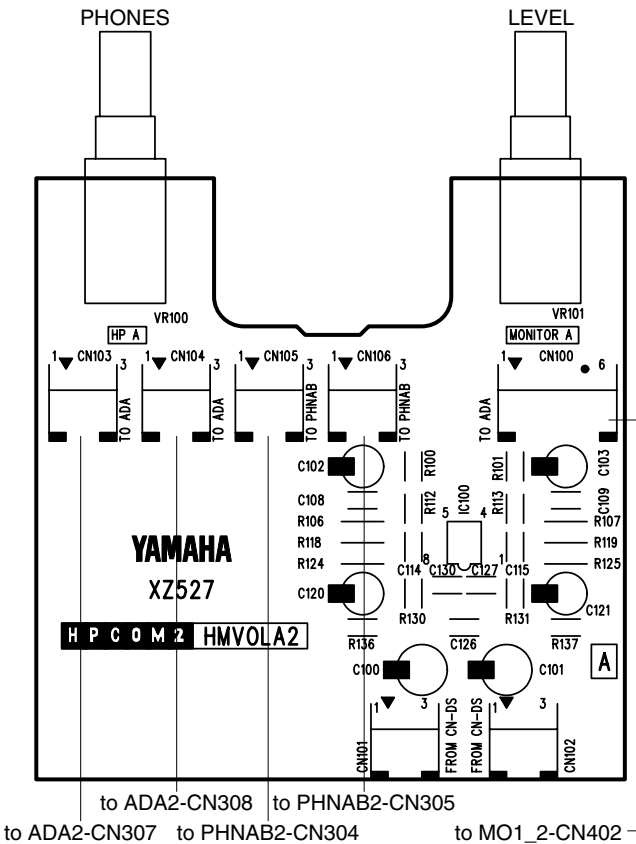


● CUTBVL2 Circuit Board



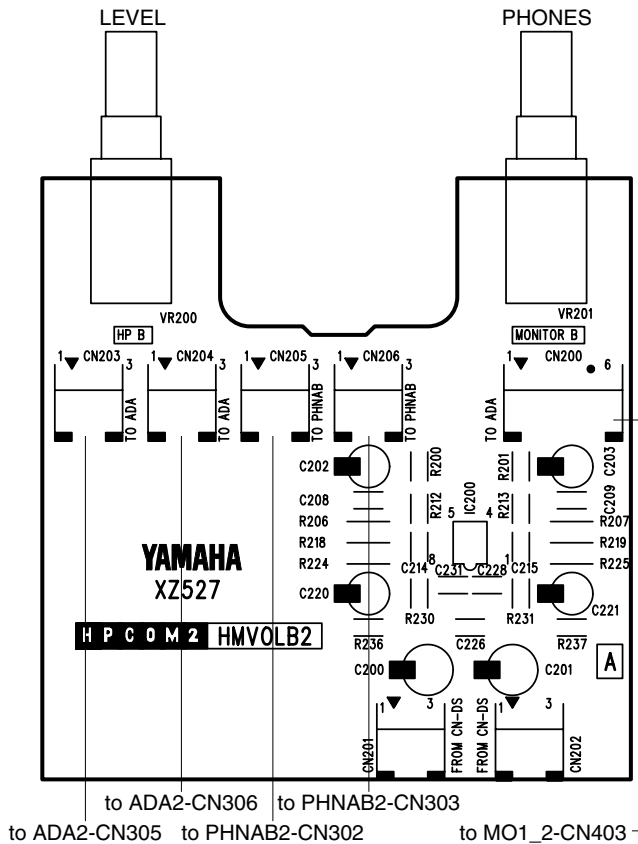
Component side

● HMVOLA2 Circuit Board



Component side

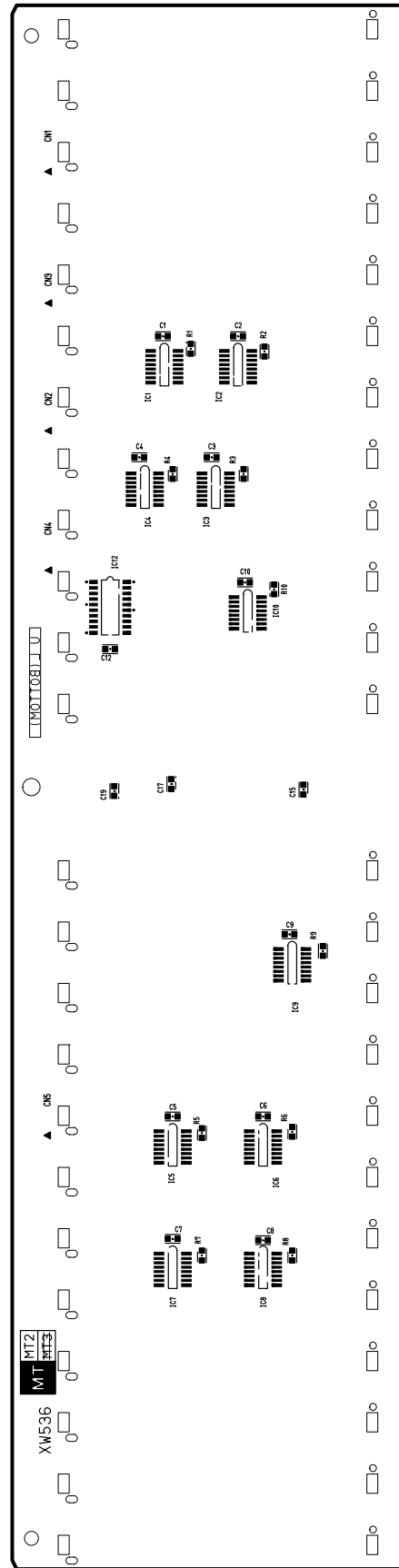
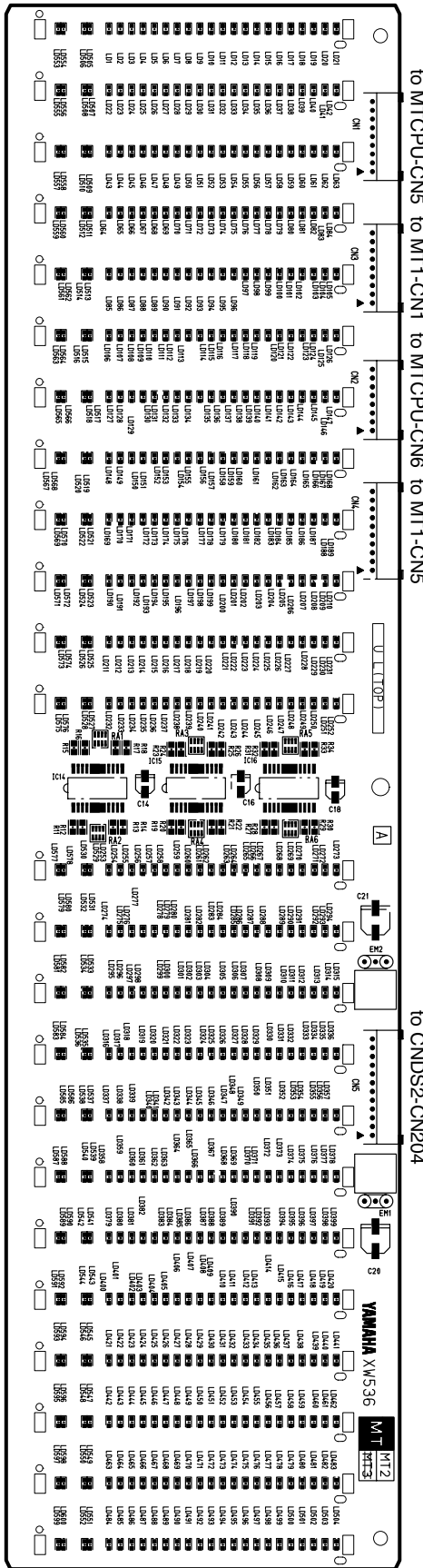
● HMVOLB2 Circuit Board



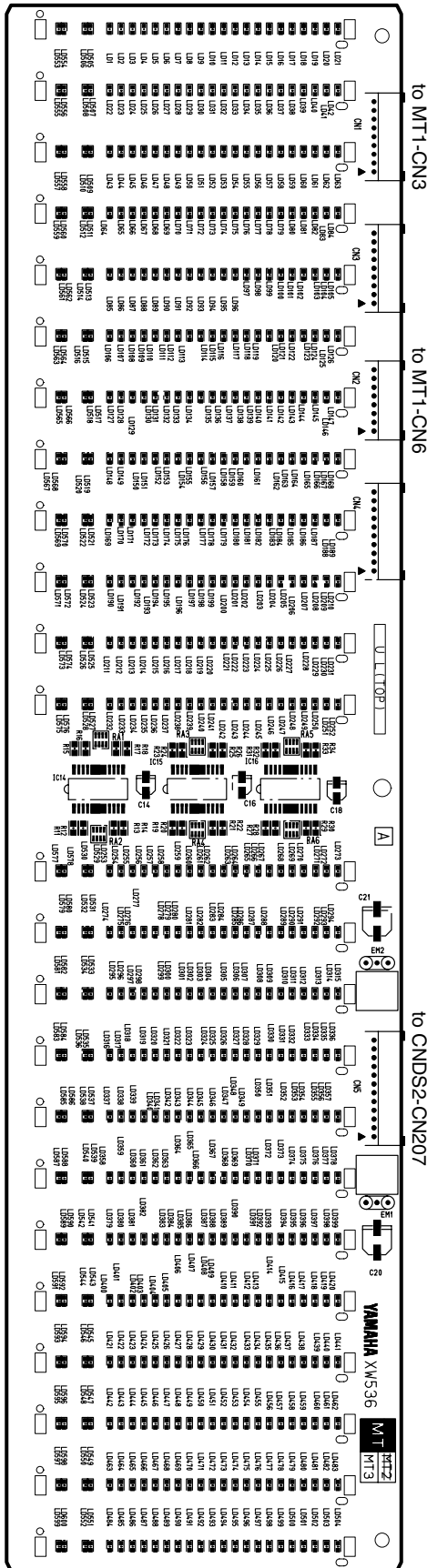
Component side

CUTBVL2, HMVOLA2, HMVOLB2: 3NA-V667380

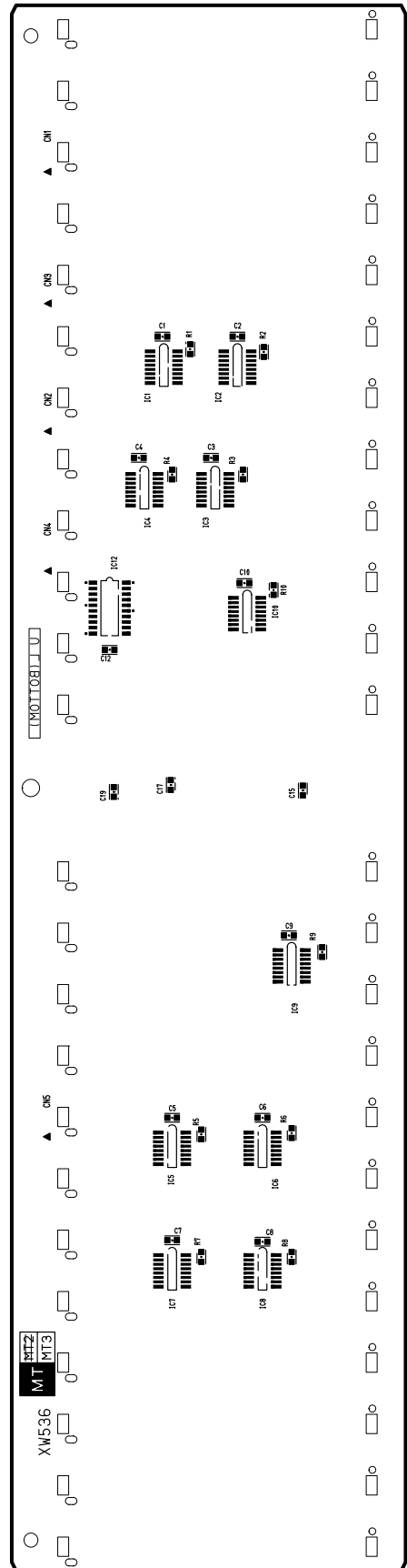
● MT2 Circuit Board



● MT3 Circuit Board

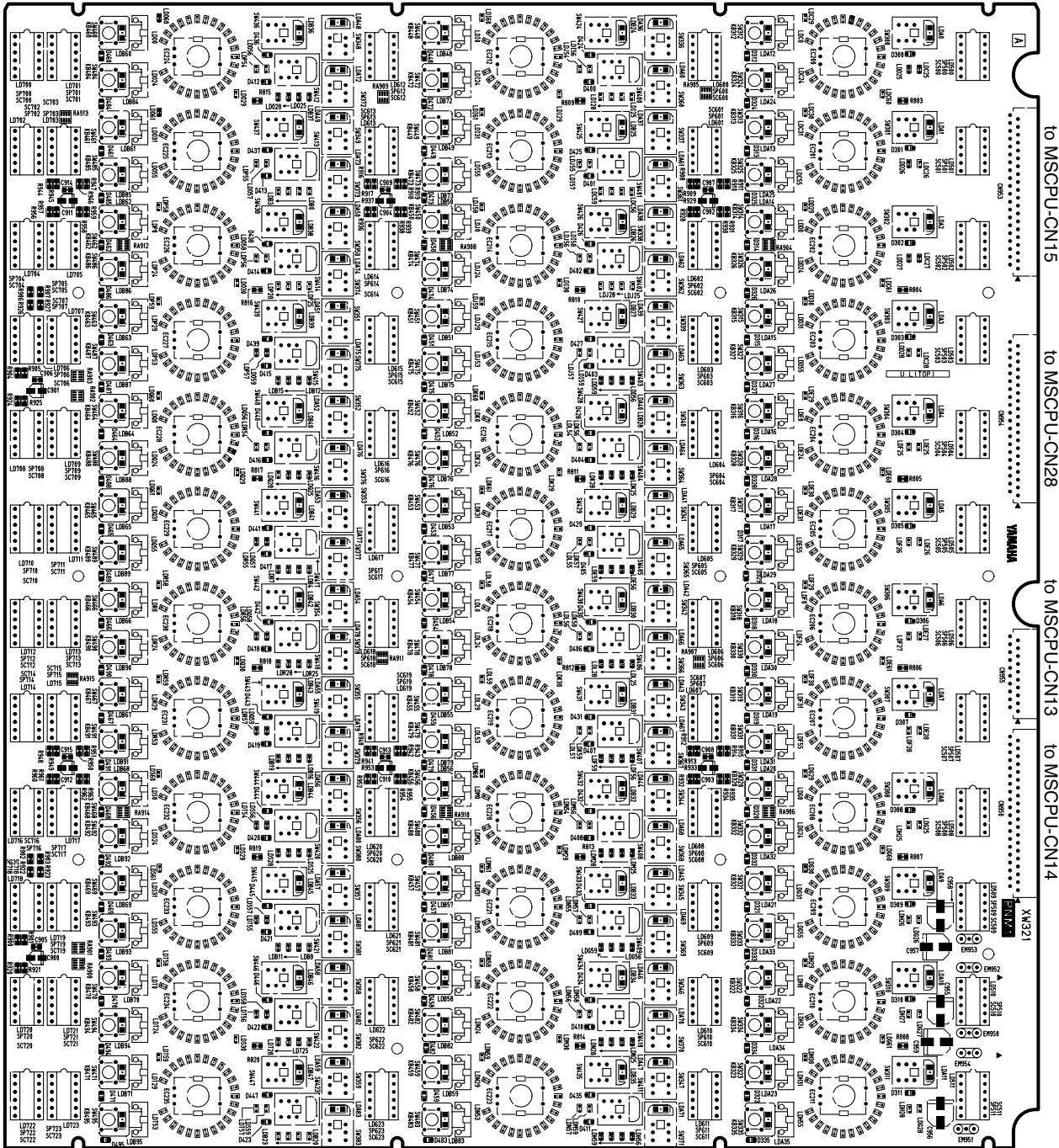


Component side



Pattern side

● PNM1 Circuit Board



Component side

● PNM2 1/12 Circuit Board



to MSCPU-CN16



Component side

● PNM2 2/12 Circuit Board

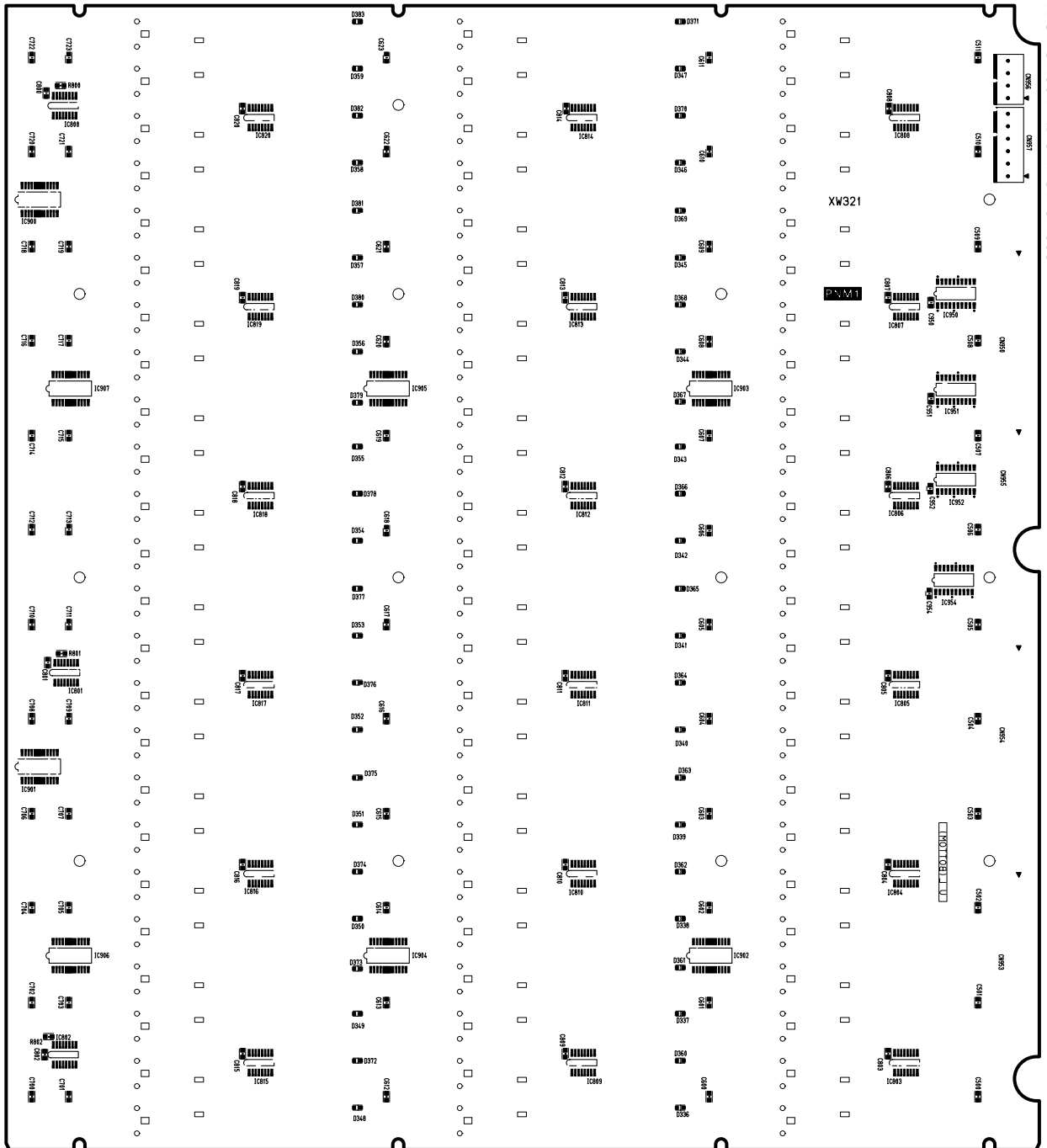


to MSCPU-CN17

Component side

PNM1: 3NA-V411160 
 PNM2: 3NA-V411170 

● PNM1 Circuit Board



Pattern side

● PNM2 3/12 Circuit Board



to MSCPU-CN18



Component side

● PNM2 4/12 Circuit Board

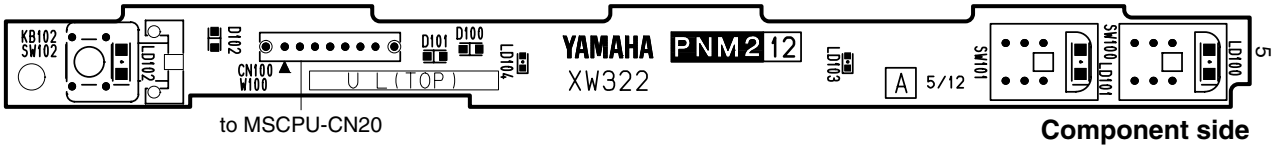


to MSCPU-CN19

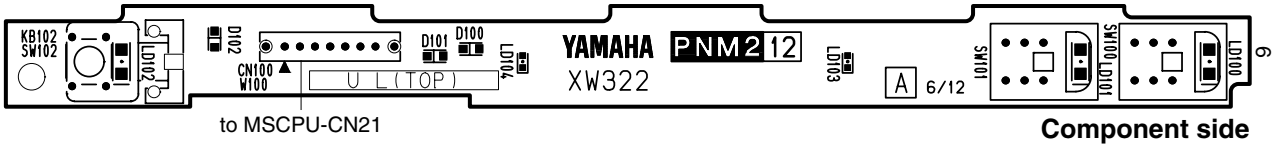
Component side

PNM1: 3NA-V411160 
 PNM2: 3NA-V411170 

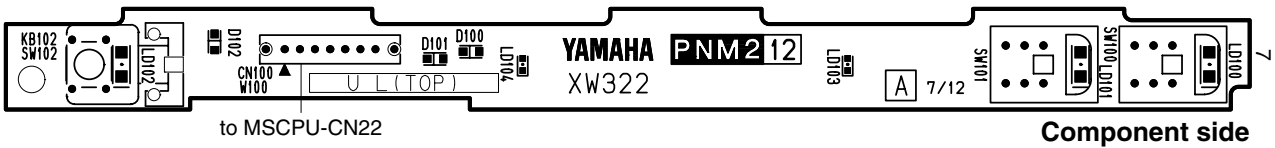
● PNM2 5/12 Circuit Board



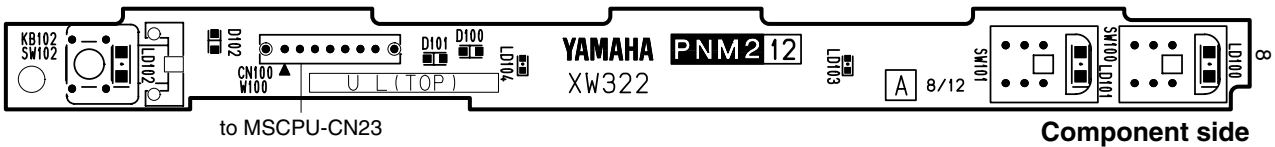
● PNM2 6/12 Circuit Board



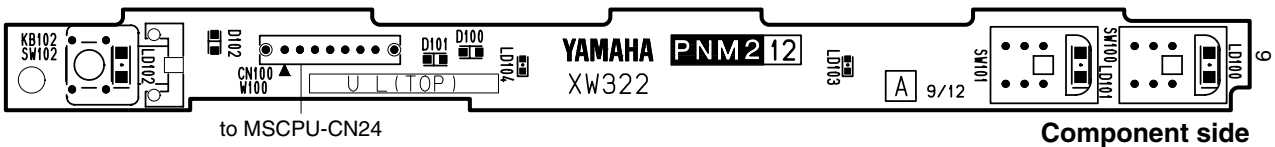
● PNM2 7/12 Circuit Board



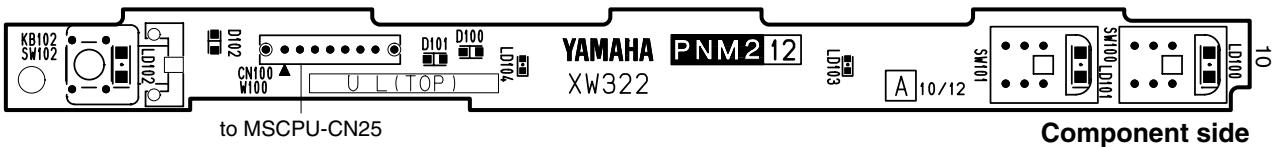
● PNM2 8/12 Circuit Board



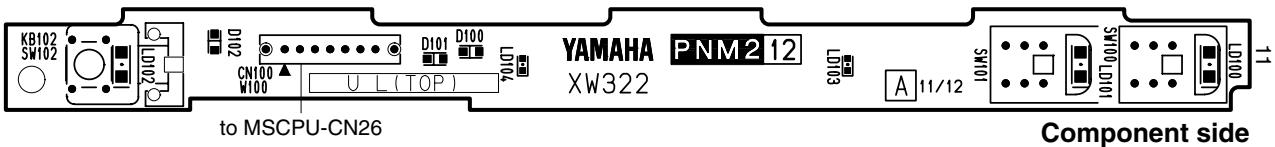
● PNM2 9/12 Circuit Board



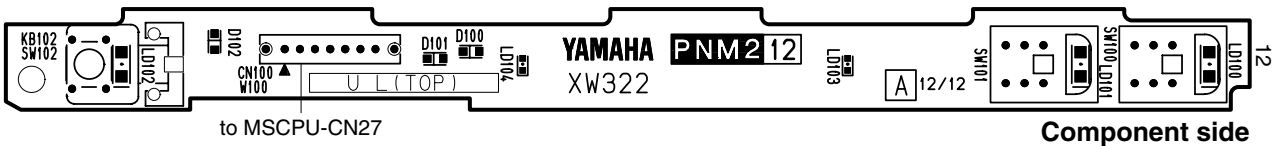
● PNM2 10/12 Circuit Board



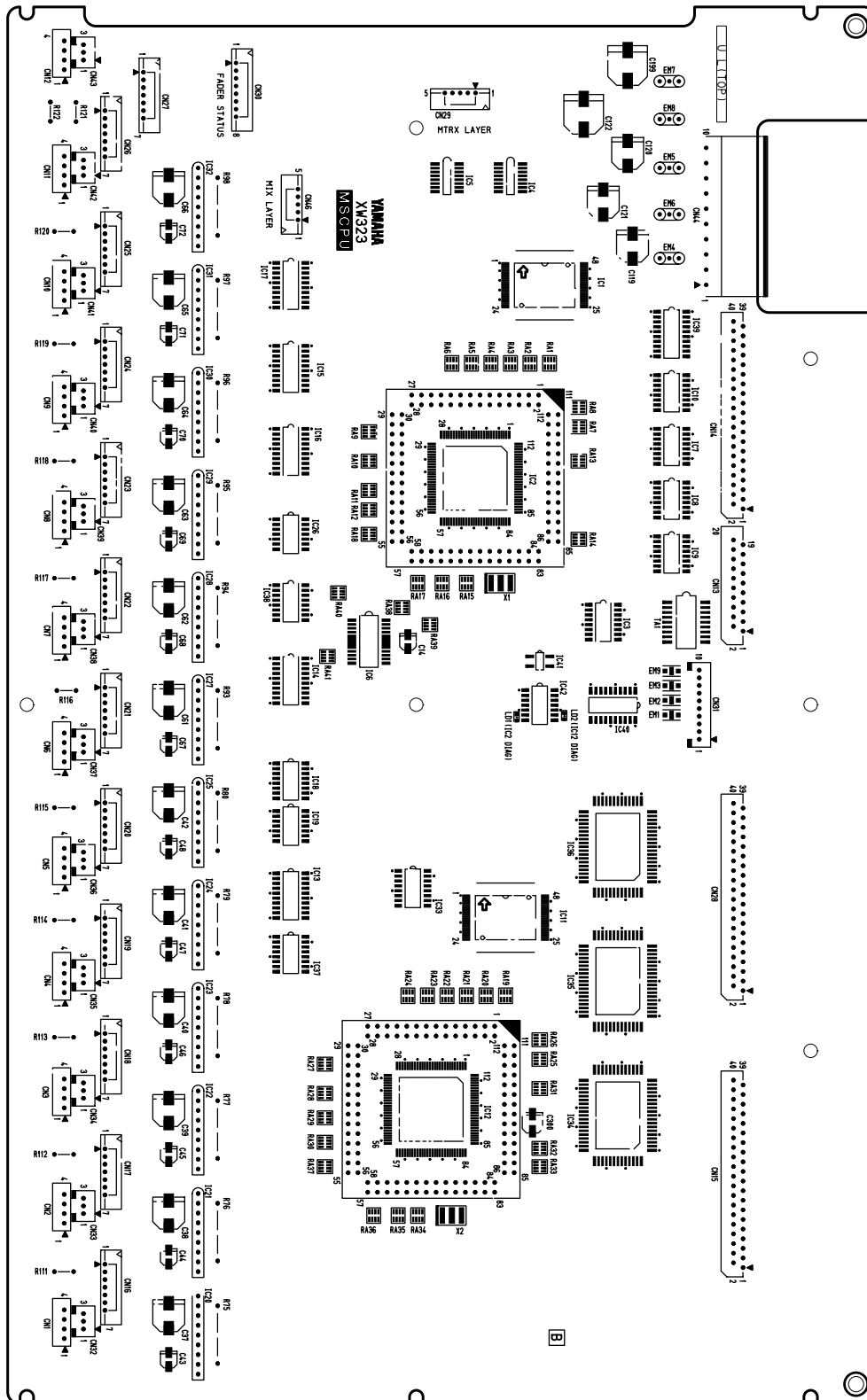
● PNM2 11/12 Circuit Board



● PNM2 12/12 Circuit Board



● MSCPU Circuit Board




CN1: to Fader 1/12-VR
 CN2: to Fader 2/12-VR
 CN3: to Fader 3/12-VR
 CN4: to Fader 4/12-VR
 CN5: to Fader 5/12-VR
 CN6: to Fader 6/12-VR
 CN7: to Fader 7/12-VR
 CN8: to Fader 8/12-VR
 CN9: to Fader 9/12-VR
 CN10: to Fader 10/12-VR

CN11: to Fader 11/12-VR
 CN12: to Fader 12/12-VR
 CN13: to PNM1-CN955
 CN14: to PNM1-CN950
 CN15: to PNM1-CN953
 CN16: to PNM2 1/12-CN100
 CN17: to PNM2 2/12-CN100
 CN18: to PNM2 3/12-CN100
 CN19: to PNM2 4/12-CN100
 CN20: to PNM2 5/12-CN100

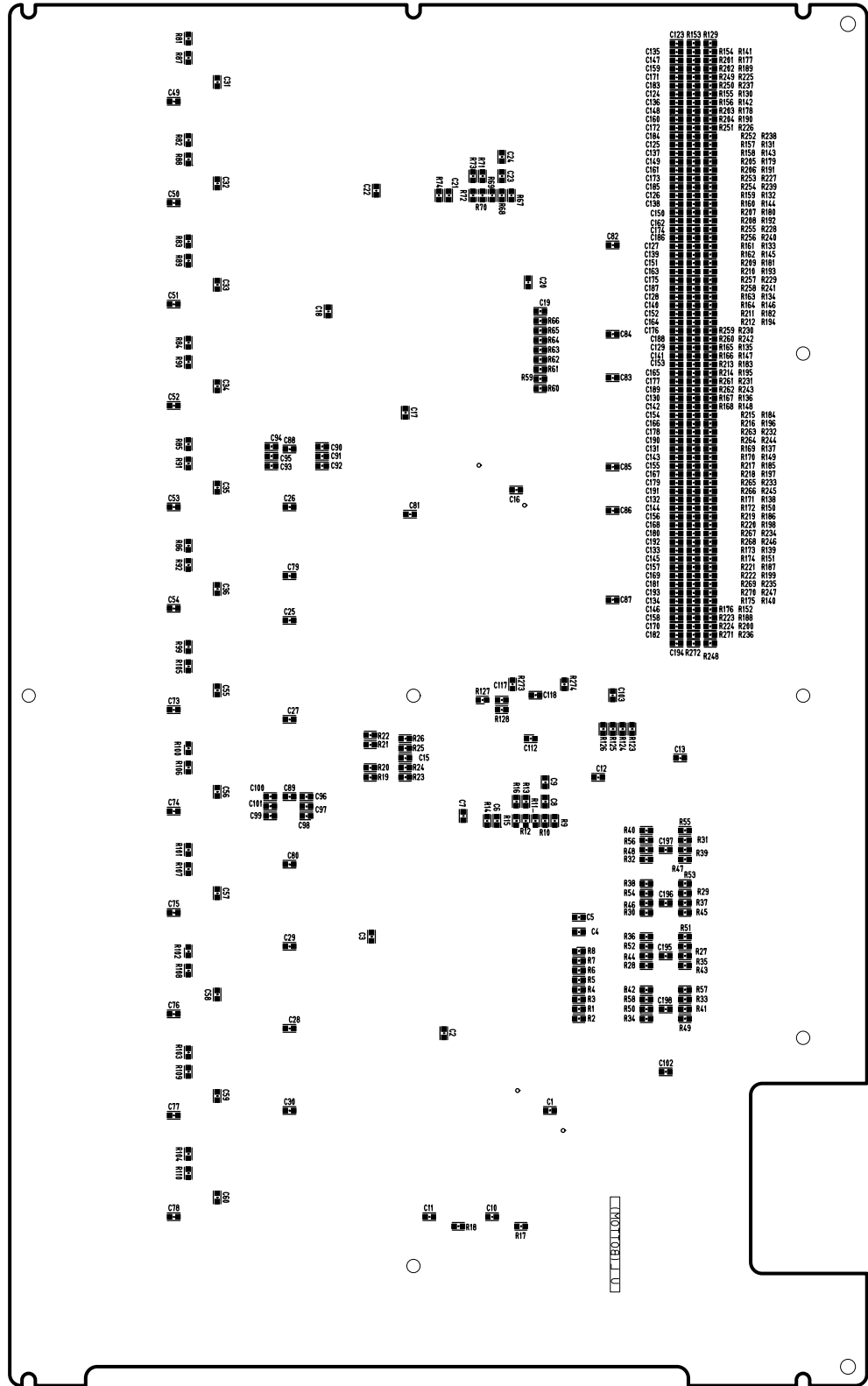
CN21: to PNM2 6/12-CN100
 CN22: to PNM2 7/12-CN100
 CN23: to PNM2 8/12-CN100
 CN24: to PNM2 9/12-CN100
 CN25: to PNM2 10/12-CN100
 CN26: to PNM2 11/12-CN100
 CN27: to PNM2 12/12-CN100
 CN28: to PNM1-CN954
 CN29: to PNM3 1/2-CN501
 CN30: to PNM4-CN400

CN31: to PNC2 -CN110
 CN32: to Fader 1/12-MT
 CN33: to Fader 2/12-MT
 CN34: to Fader 3/12-MT
 CN35: to Fader 4/12-MT
 CN36: to Fader 5/12-MT
 CN37: to Fader 6/12-MT
 CN38: to Fader 7/12-MT

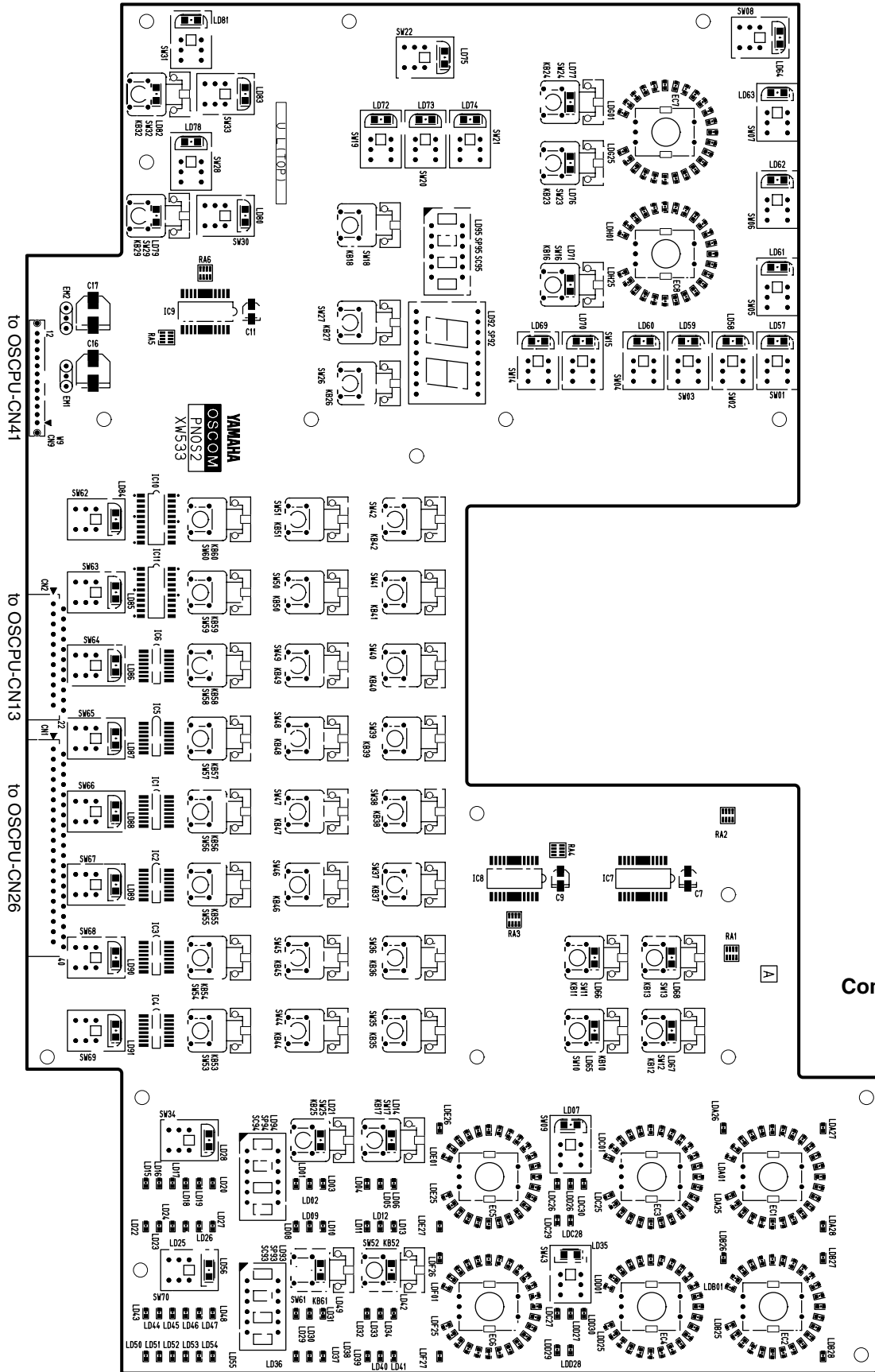
CN39: to Fader 8/12-MT
 CN40: to Fader 9/12-MT
 CN41: to Fader 10/12-MT
 CN42: to Fader 11/12-MT
 CN43: to Fader 12/12-MT
 CN44: to CND52-CN306
 CN46: to PNM3 2/2-CN501

3NA-V411180 

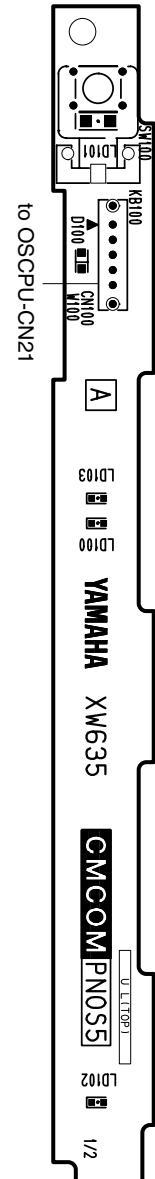
● MSCP CPU Circuit Board



● PNOS2 Circuit Board





● PNOS5 1/2 Circuit Board

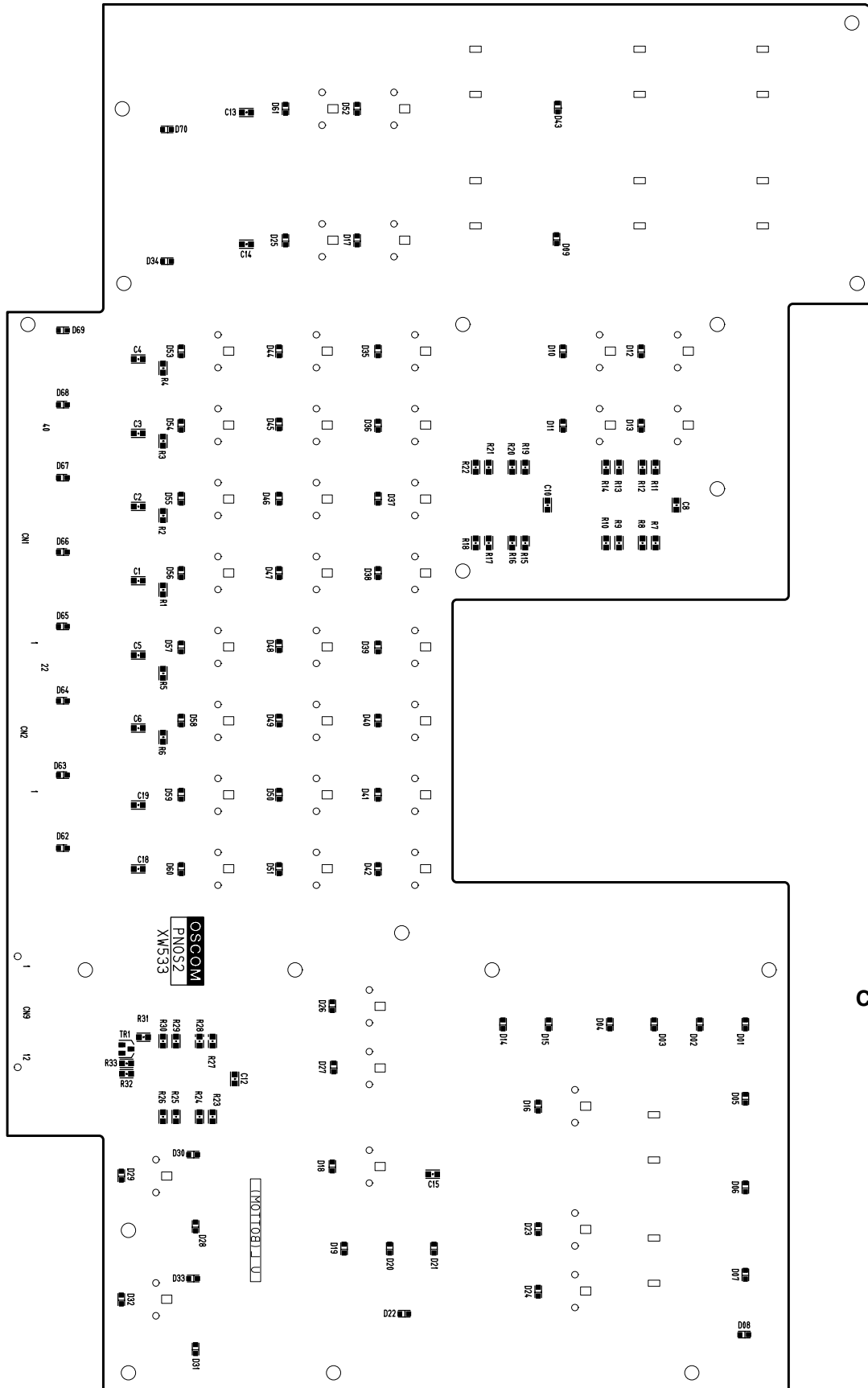


Component side

Component side

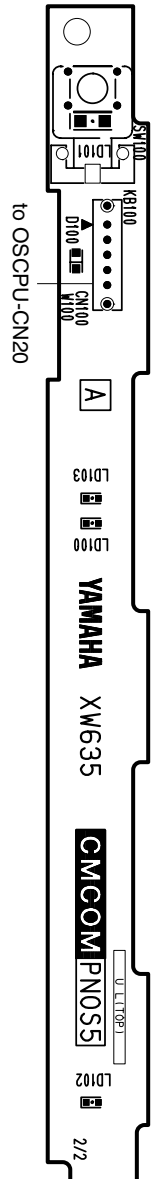
PNOS2: 3NA-V504670 
 PNOS5: 3NA-V445280 

● PNOS2 Circuit Board



Pattern side

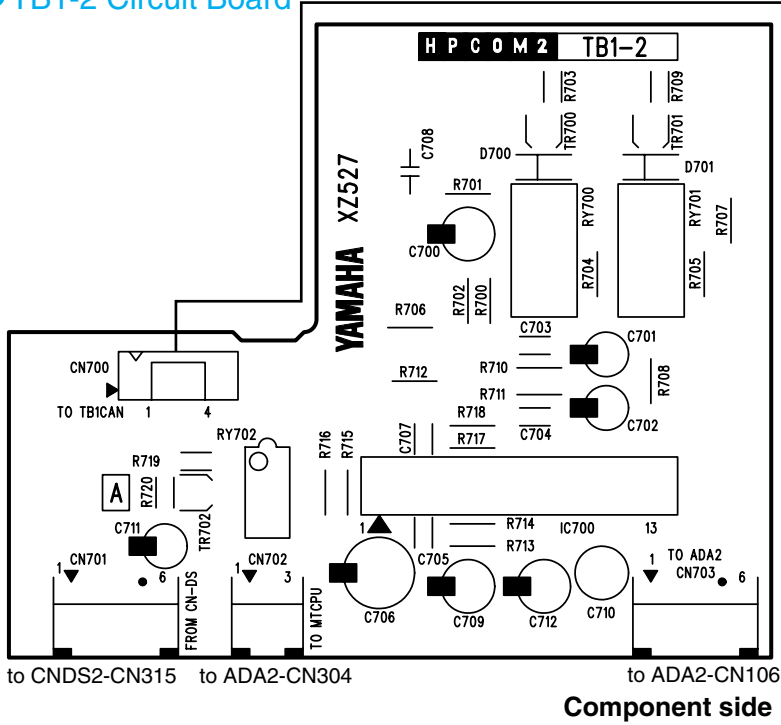
● PNOS5 2/2 Circuit Board



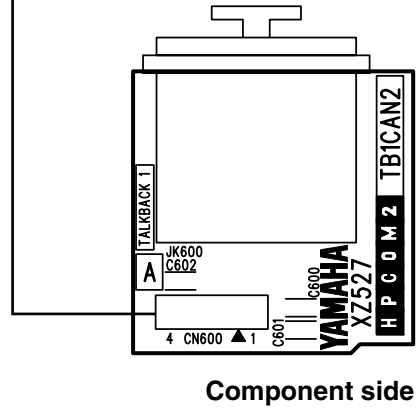
Component side

PNOS2: 3NA-V504670
 PNOS5: 3NA-V445280

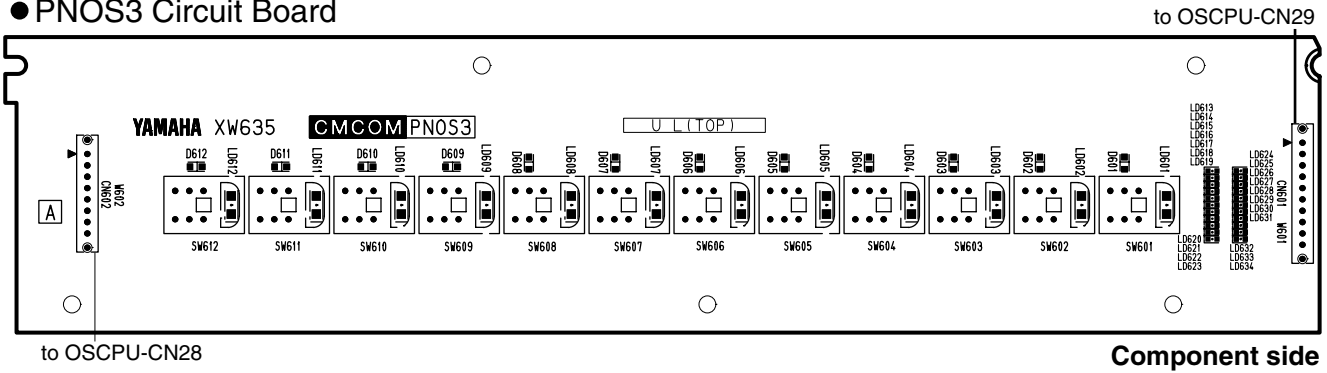
● TB1-2 Circuit Board



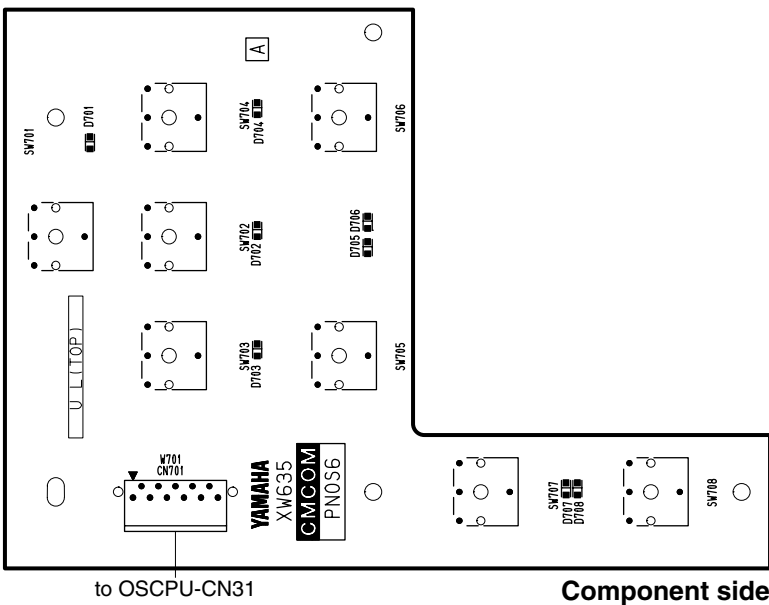
● TB1CAN2 Circuit Board




● PNOS3 Circuit Board

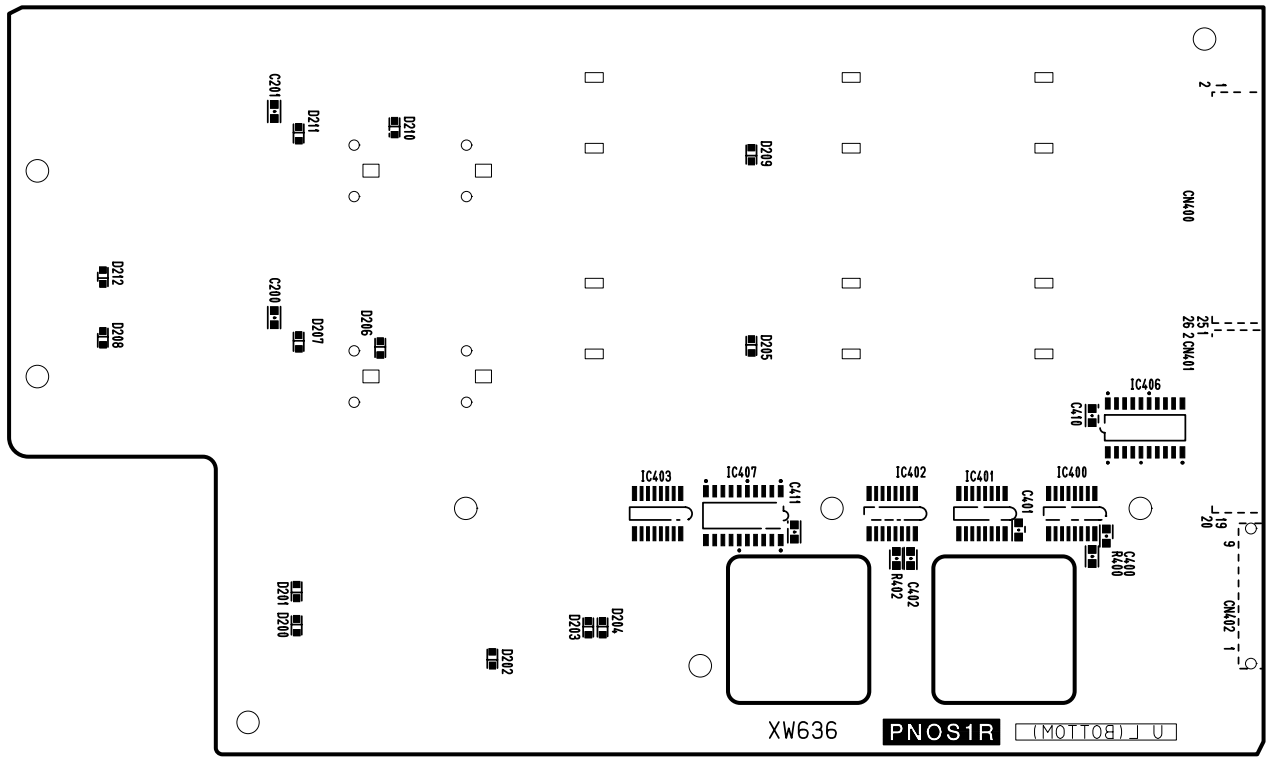
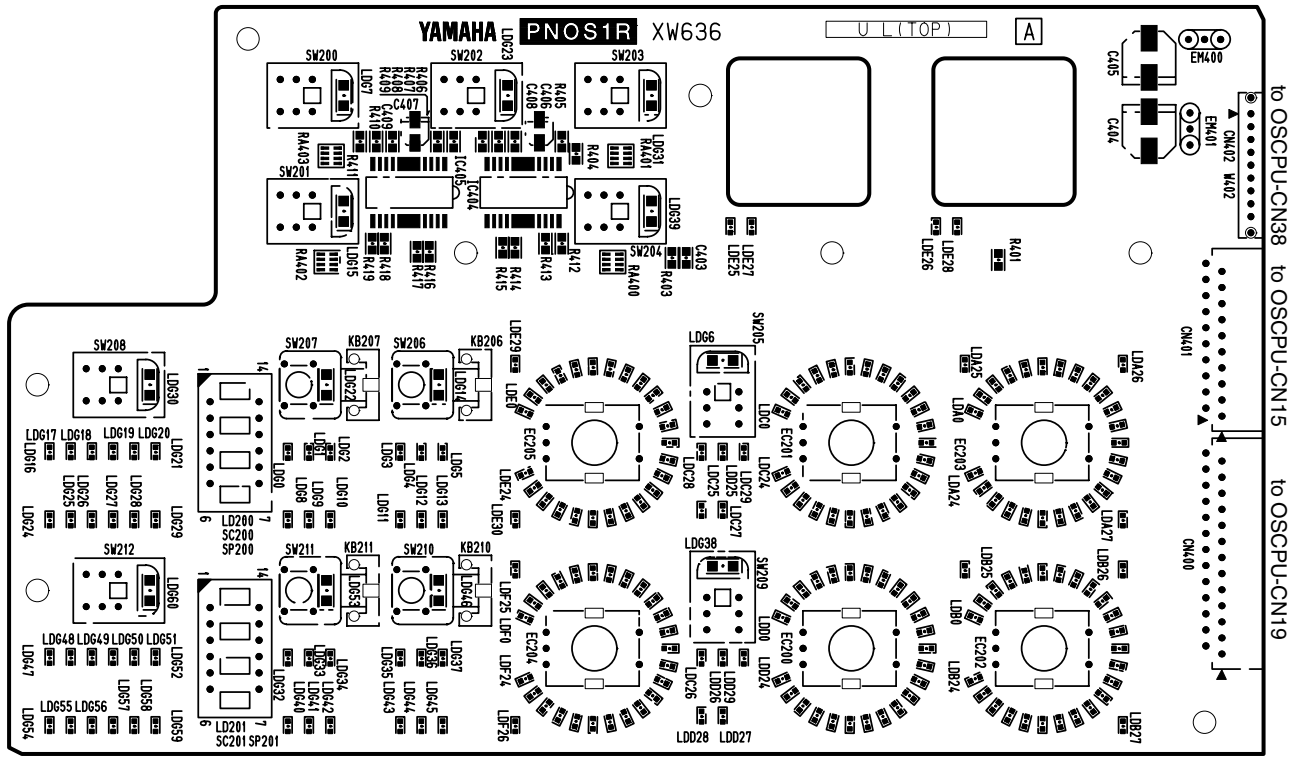


● PNOS6 Circuit Board

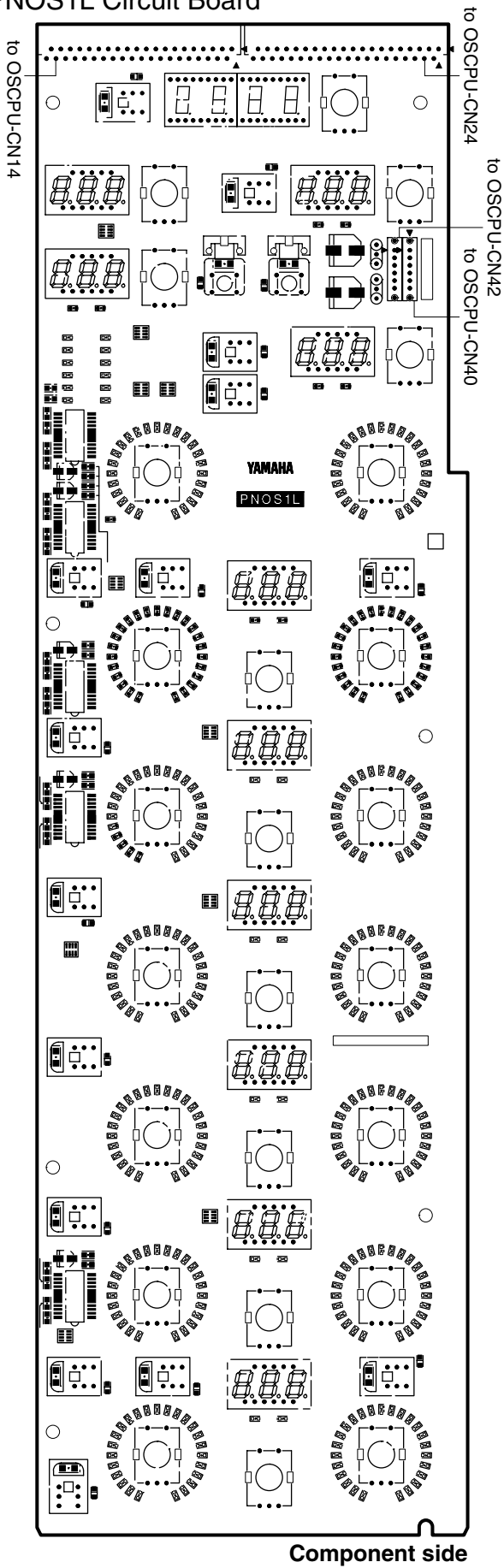


TB1-2, TB1CAN2: 3NA-V667380
 PNOS3, PNOS6: 3NA-V445280 

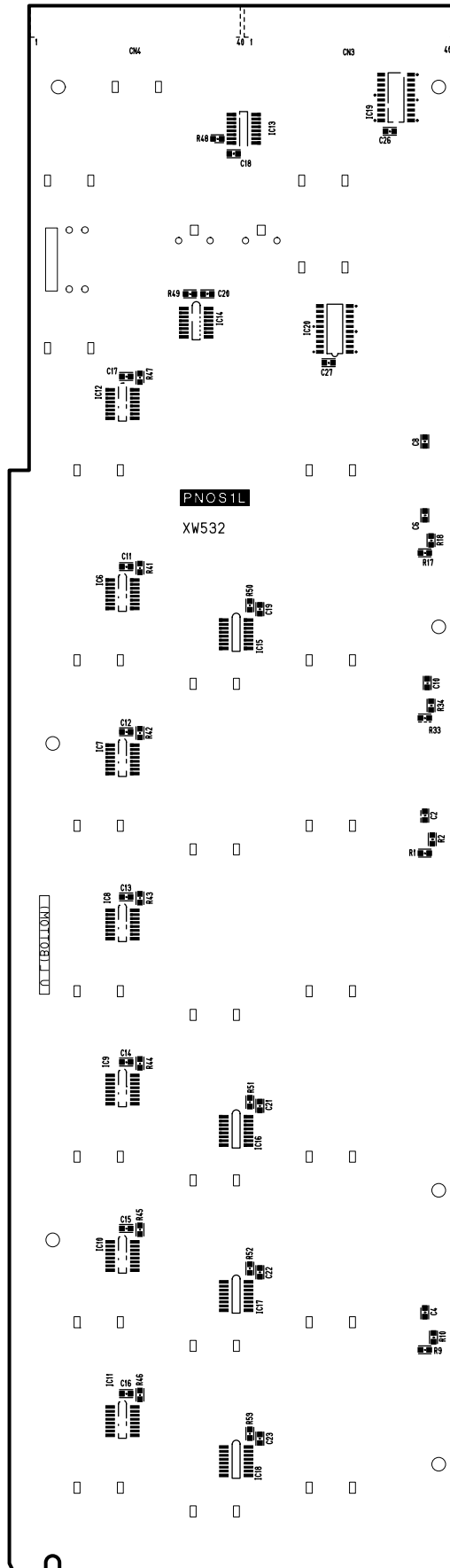
● PNOS1R Circuit Board



● PNOS1L Circuit Board

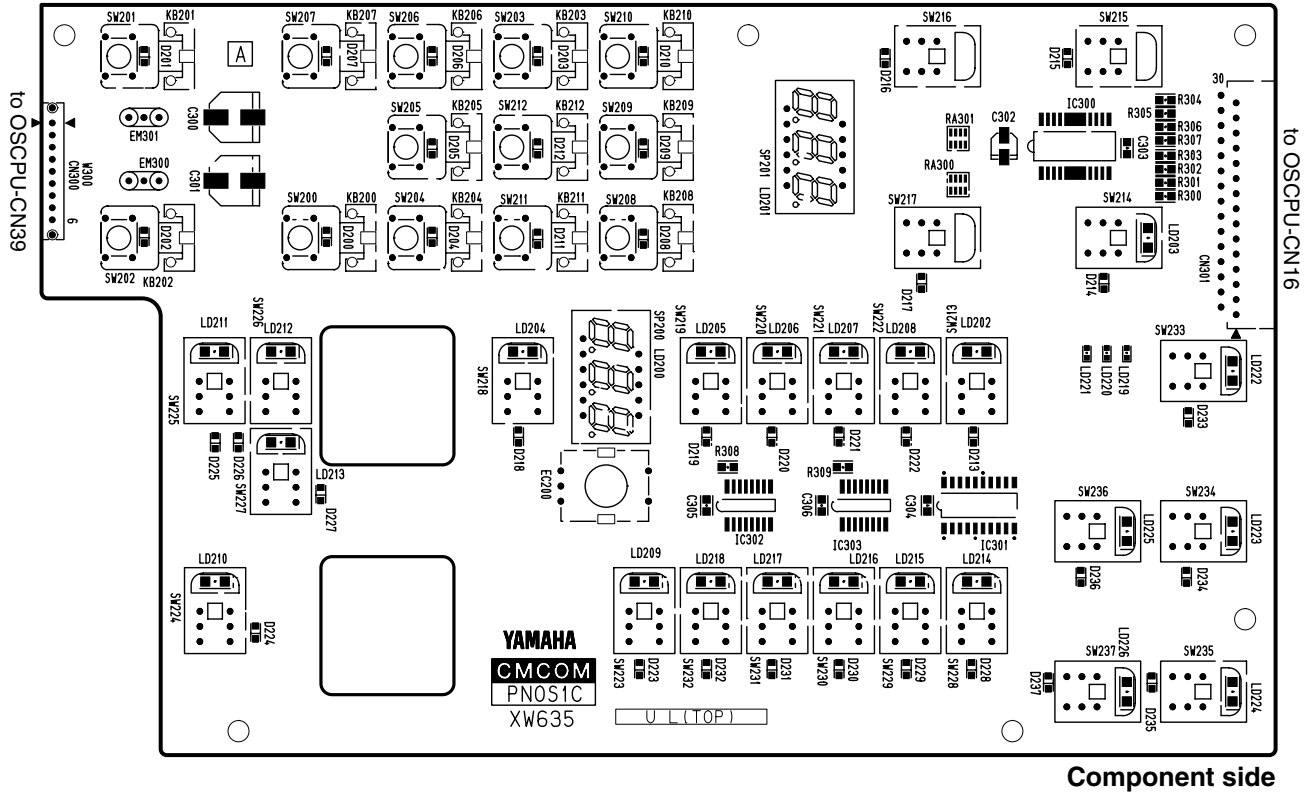


Component side

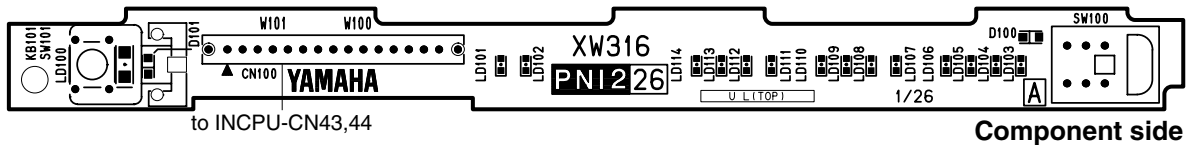


Pattern side

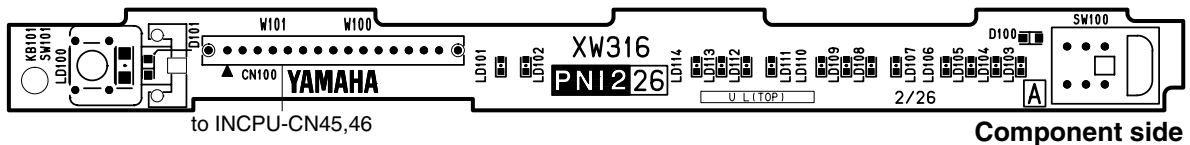
● PNOS1C Circuit Board



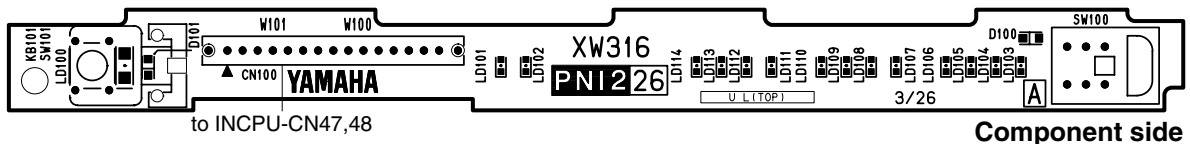
● PNI2 1/26 Circuit Board



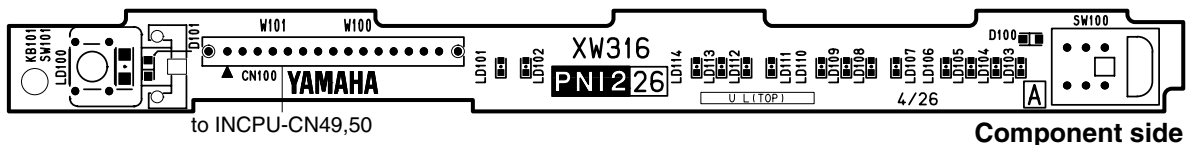
● PNI2 2/26 Circuit Board



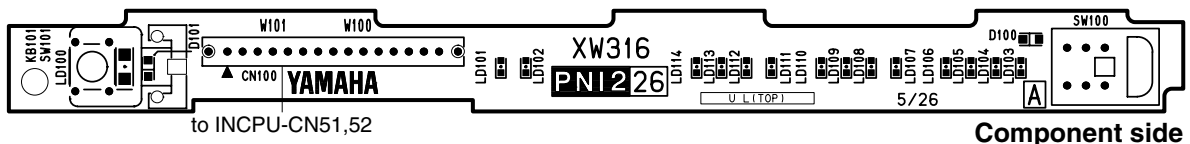
● PNI2 3/26 Circuit Board





● PNI2 4/26 Circuit Board

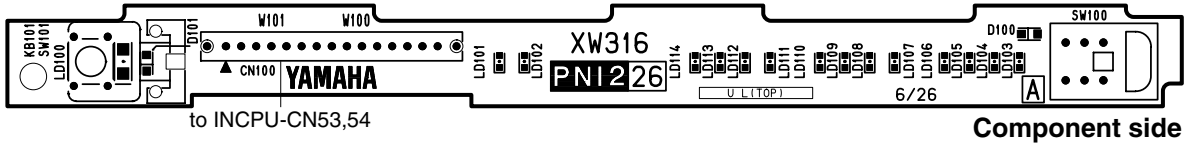


● PNI2 5/26 Circuit Board

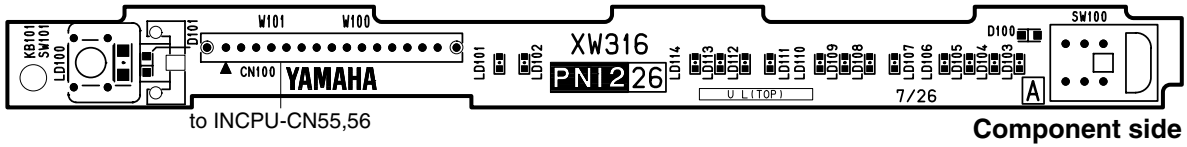


PNOS1C: 3NA-V445280 
 PNI2: 3NA-V411110 

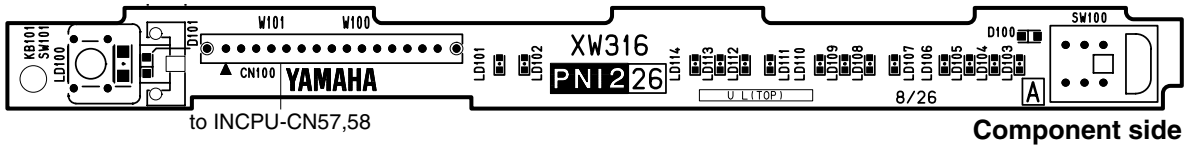
● PNI2 6/26 Circuit Board



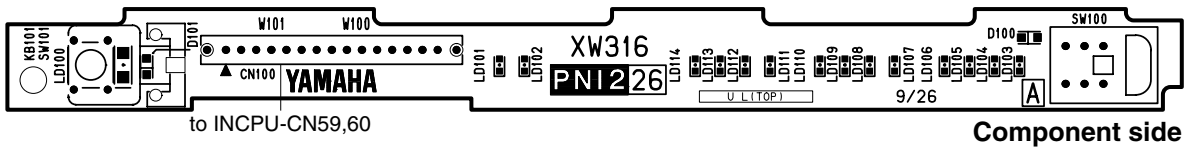
● PNI2 7/26 Circuit Board



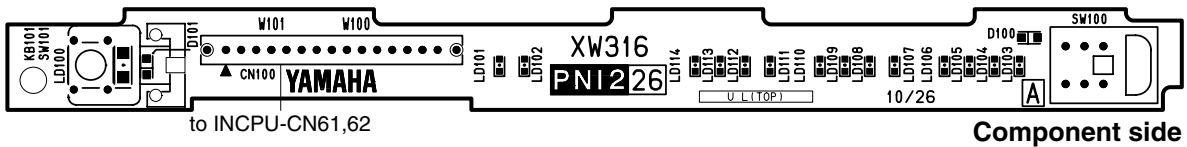
● PNI2 8/26 Circuit Board



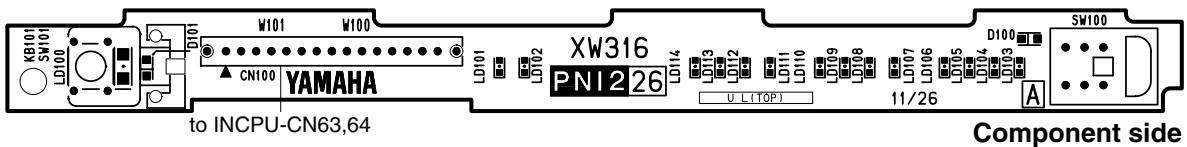
● PNI2 9/26 Circuit Board



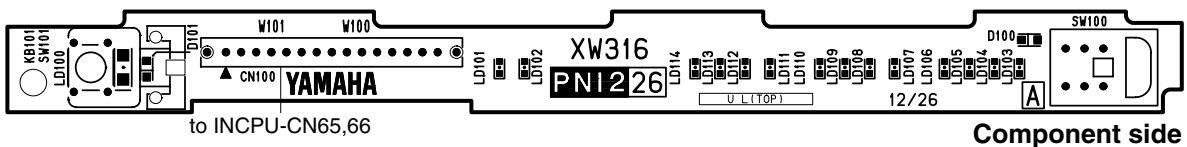
● PNI2 10/26 Circuit Board



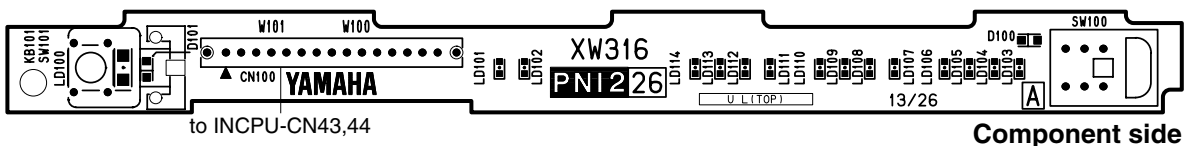
● PNI2 11/26 Circuit Board



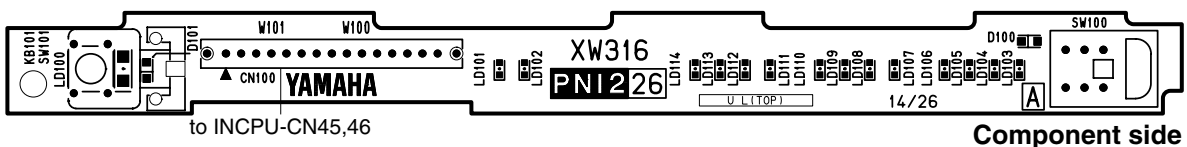
● PNI2 12/26 Circuit Board



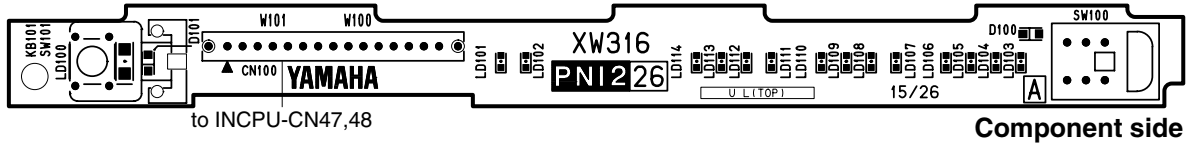
● PNI2 13/26 Circuit Board



● PNI2 14/26 Circuit Board

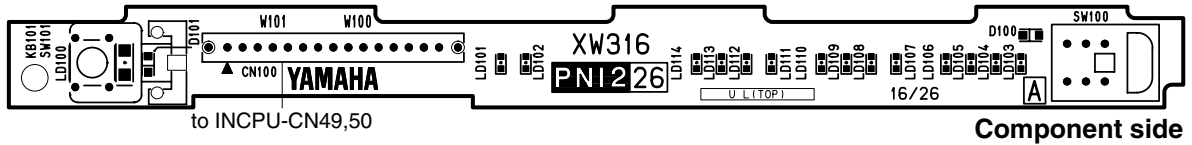


● PNI2 15/26 Circuit Board



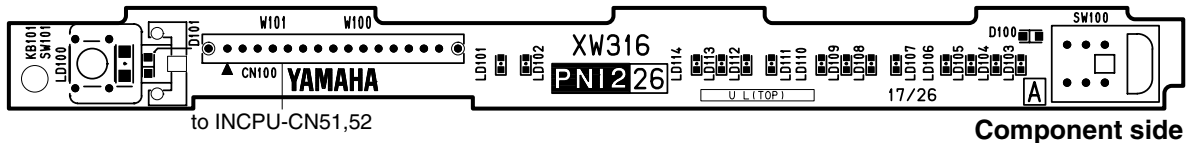
Component side

● PNI2 16/26 Circuit Board



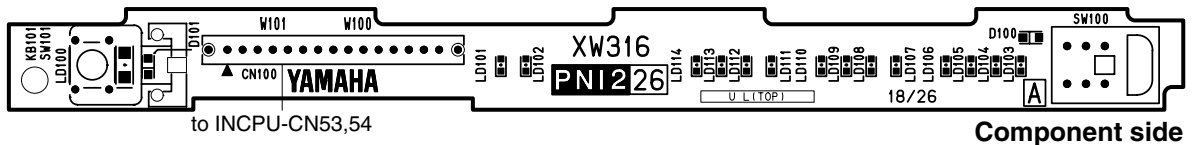
Component side

● PNI2 17/26 Circuit Board



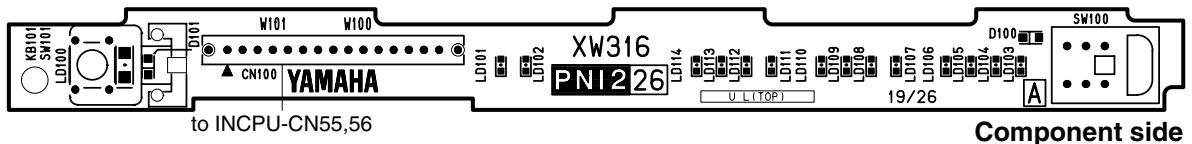
Component side

● PNI2 18/26 Circuit Board



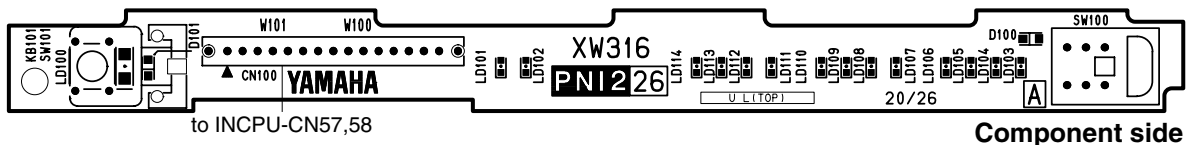
Component side

● PNI2 19/26 Circuit Board



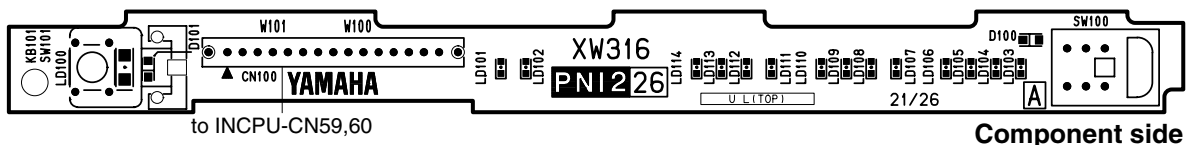
Component side

● PNI2 20/26 Circuit Board



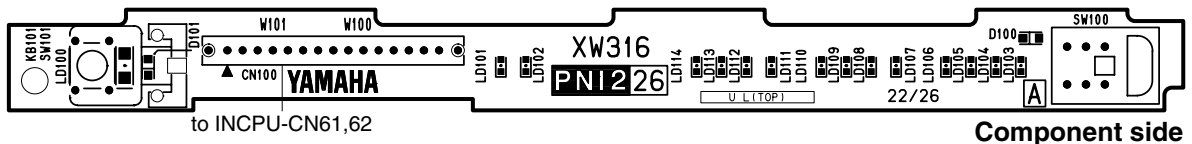
Component side

● PNI2 21/26 Circuit Board



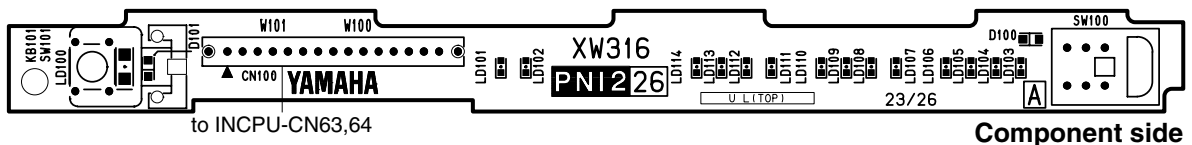
Component side

● PNI2 22/26 Circuit Board



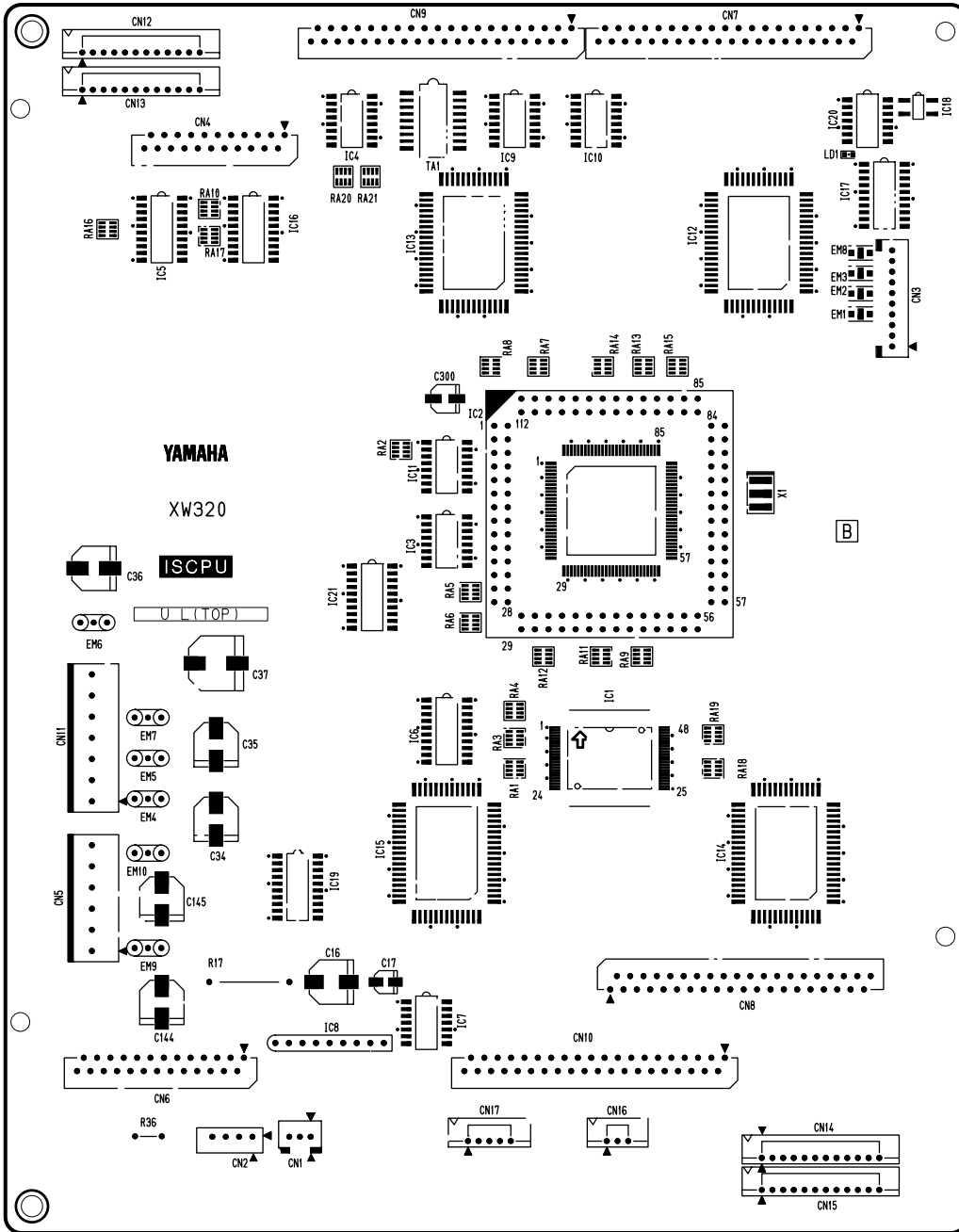
Component side

● PNI2 23/26 Circuit Board



Component side

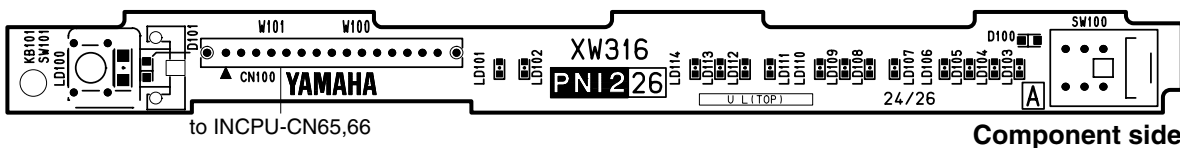
● ISCPU Circuit Board





Component side

- | | | | |
|---------------------|---------------------|----------------------|----------------------|
| CN1: to Fader-MT | CN6: to PNIS2-CN803 | CN10: to PNIS2-CN804 | CN14: to PNIS2-CN801 |
| CN2: to Fader-VR | CN7: to PNIS1-CN801 | CN11: to CNDS2-CN206 | CN15: to PNIS2-CN805 |
| CN3: to PNC2-CN107 | CN8: to PNIS2-CN802 | CN12: to PNIS1-CN804 | CN16: to PNIS3-CNX1 |
| CN4: to PNIS1-CN800 | CN9: to PNIS1-CN802 | CN13: to PNIS1-CN803 | CN17: to PNIS4-CNY1 |
| CN5: to CNDS2-CN205 | | | |

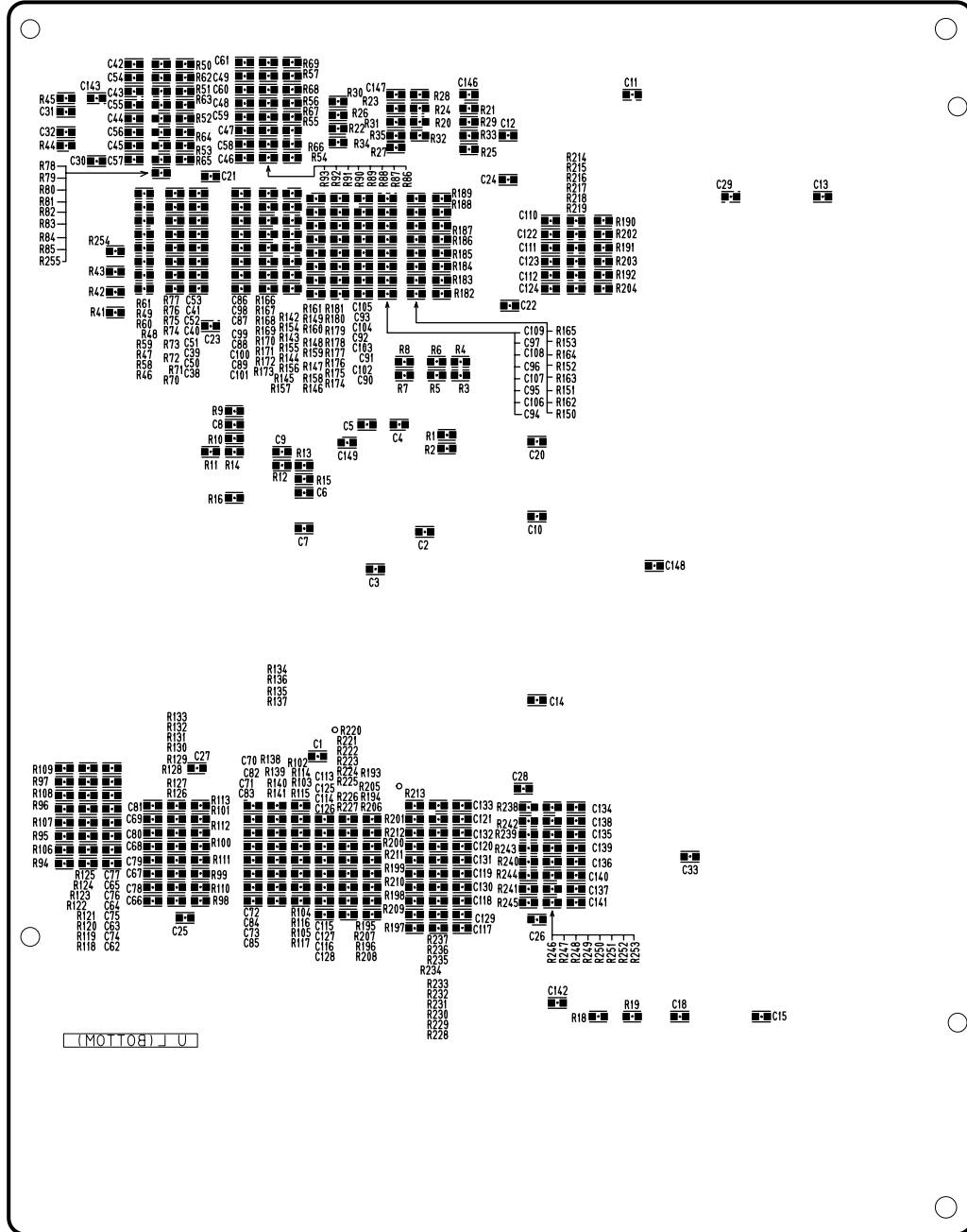
● PNI2 24/26 Circuit Board



Component side

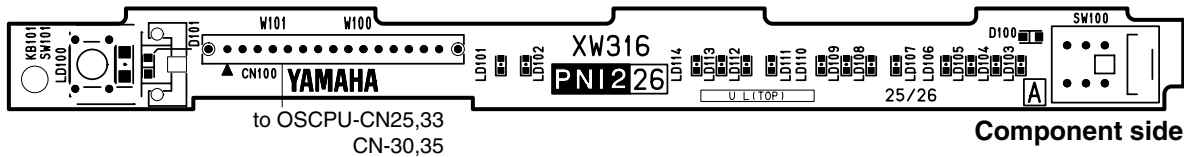
ISCPU: 3NA-V411150 
 PNI2: 3NA-V411110 

● ISCPU Circuit Board



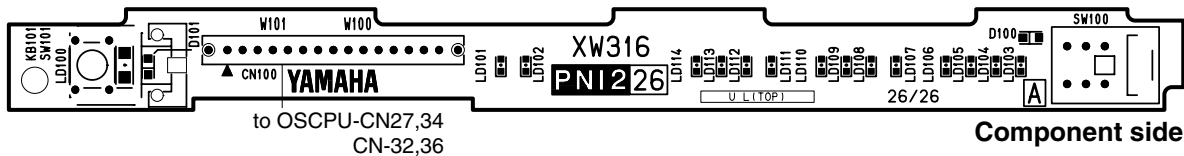
Pattern side

● PNI2 25/26 Circuit Board



Component side

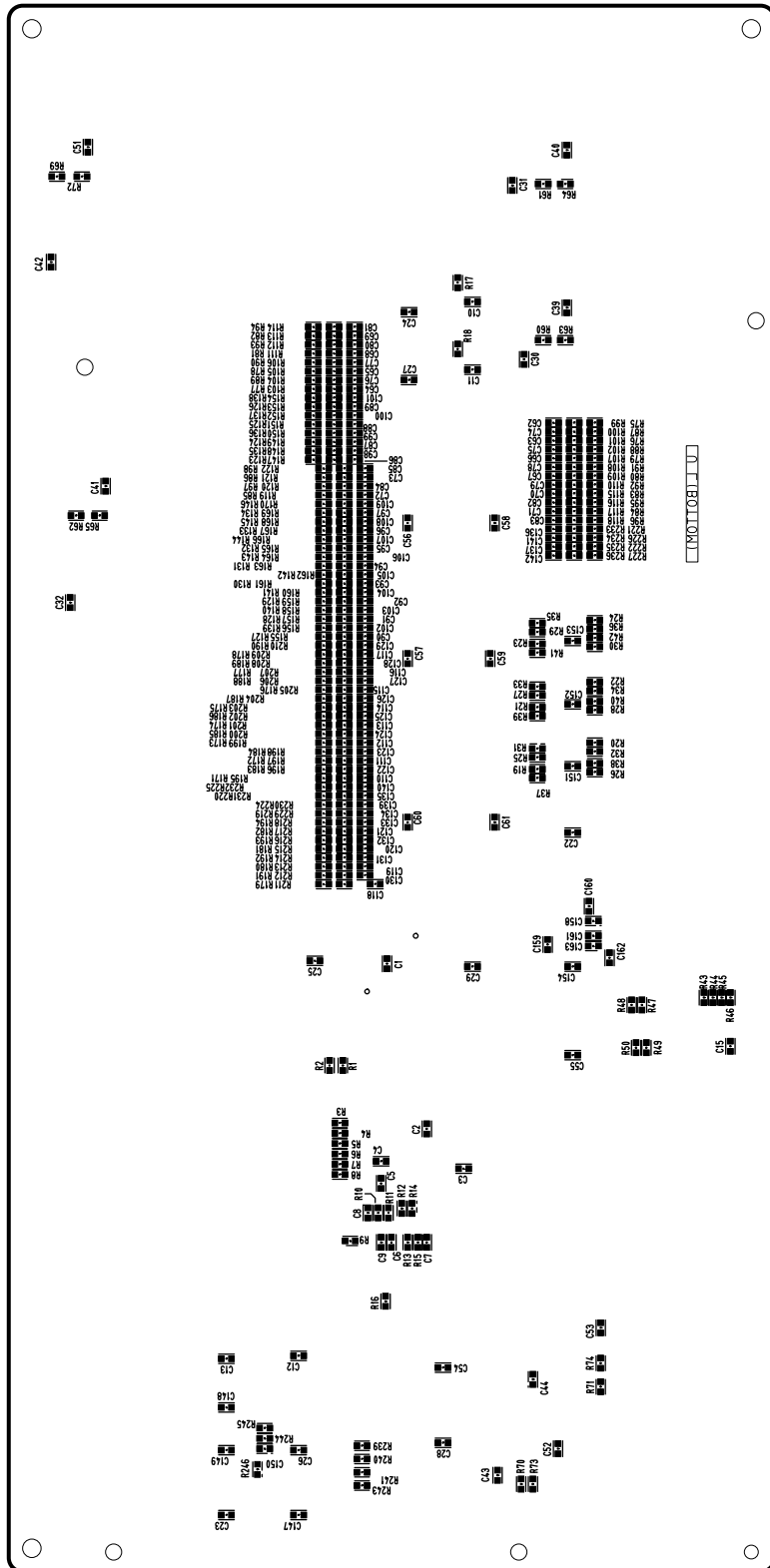
● PNI2 26/26 Circuit Board



Component side

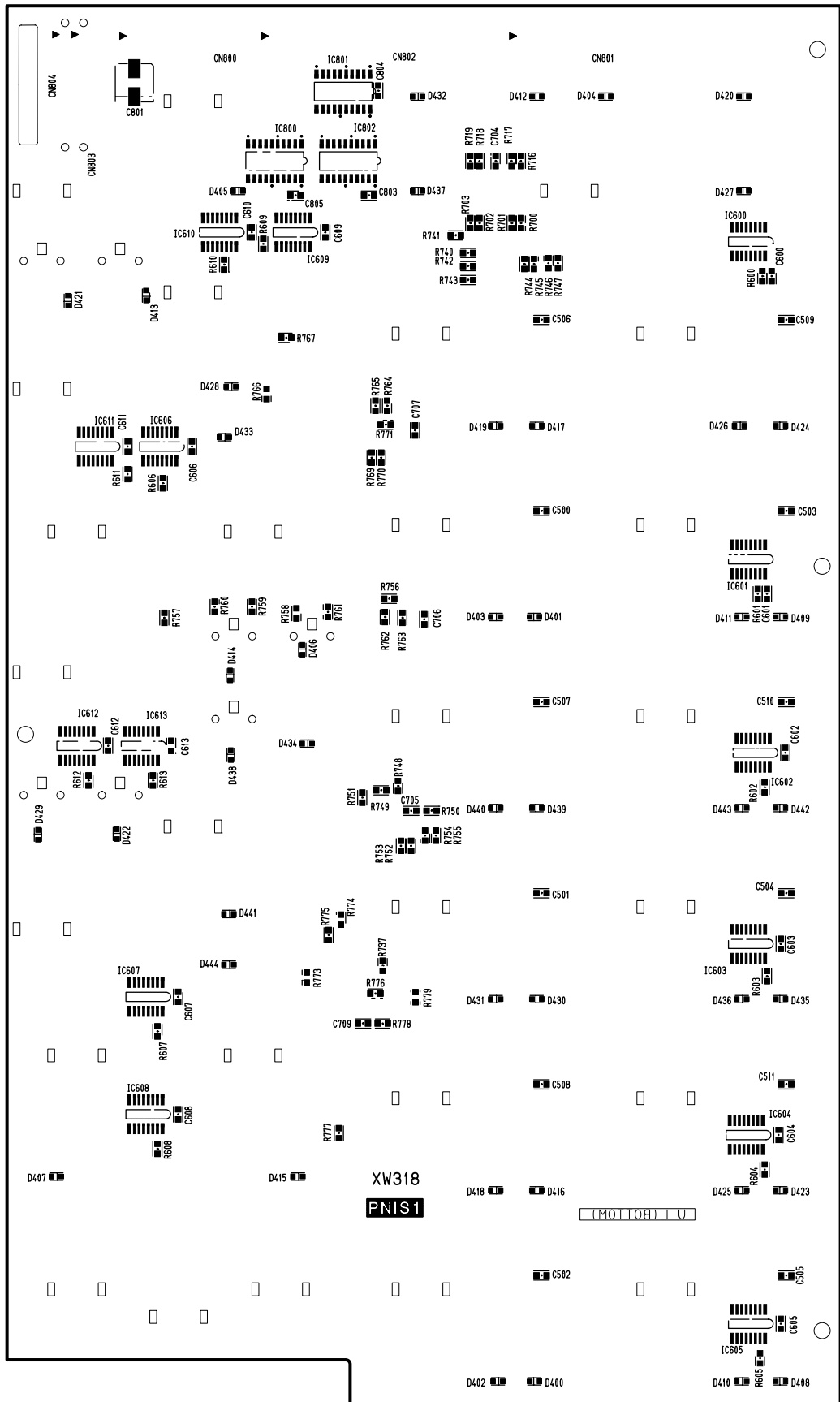
ISCPU: 3NA-V411150 △
PNI2: 3NA-V411110 △

● OSCP CPU Circuit Board



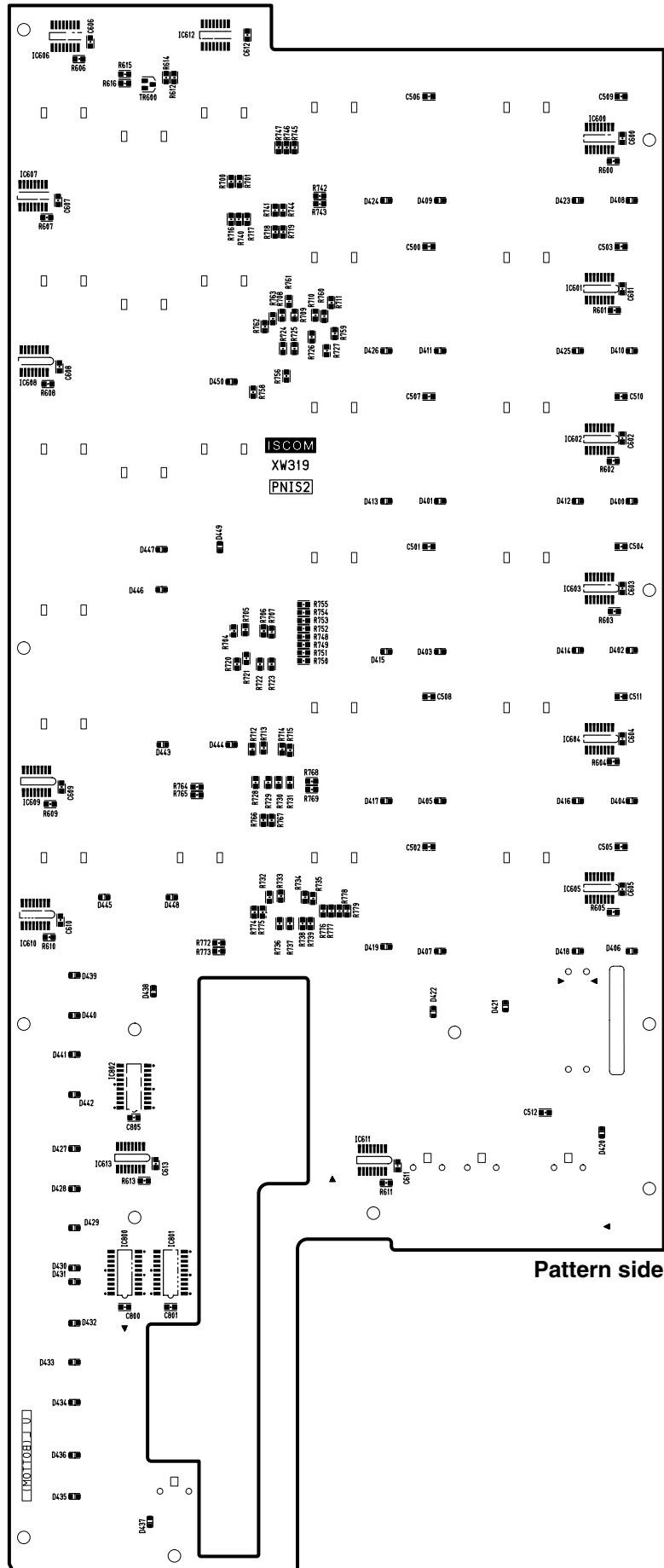
Pattern side

● PNIS1 Circuit Board



Pattern side

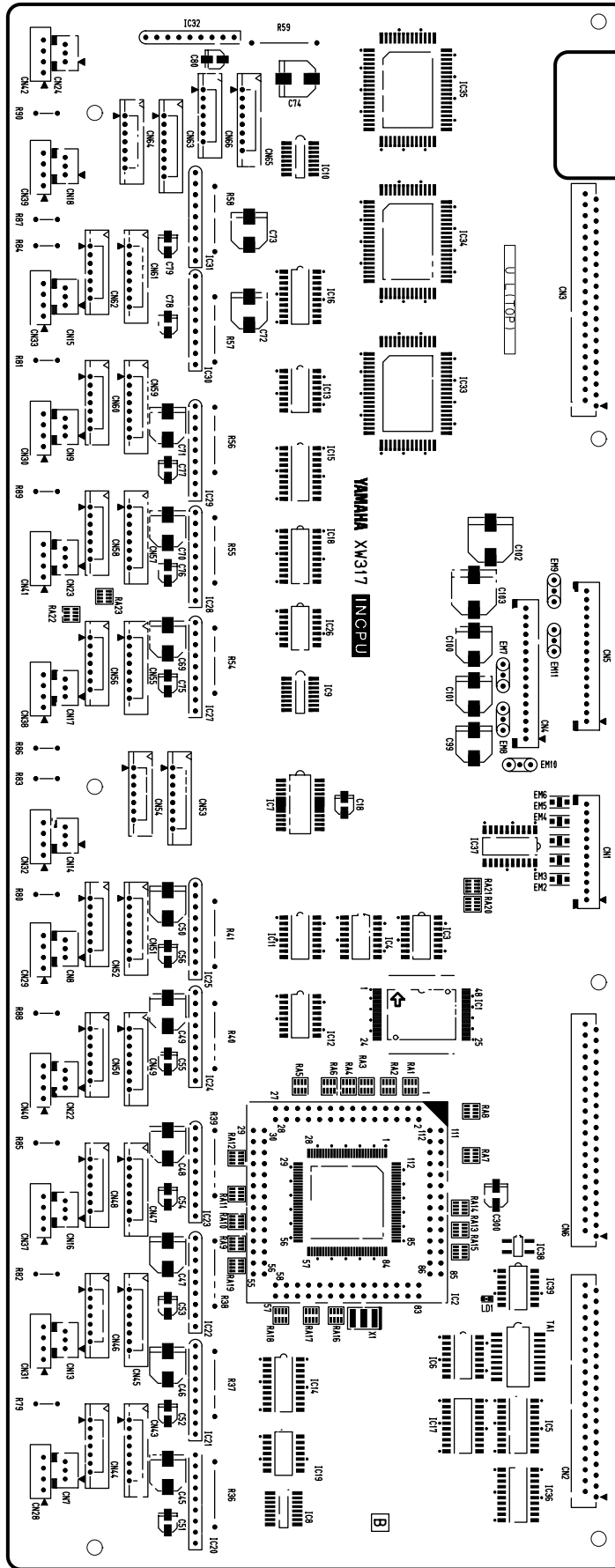
● PNIS2 Circuit Board



● INCPU Circuit Board

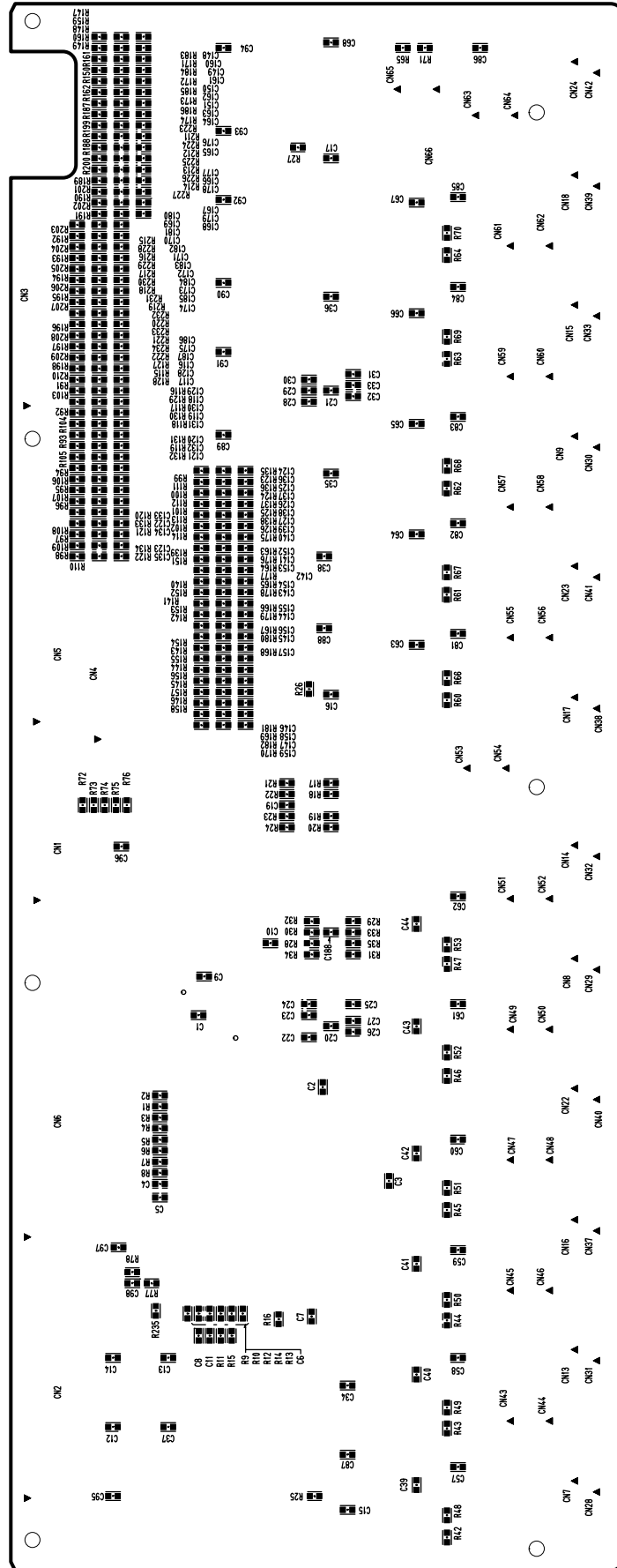
- CN1: to PNC2-CN103,104,
105,106
- CN2: to PNI1-CN800
- CN3: to PNI1-CN802
- CN4: to CND51-CN105,107
CND53-CN507,509
- CN5: to CND51-CN106,108
CND53-CN508,510
- CN6: to PNI1-CN801
- CN7: to Fader-MT
- CN8: to Fader-MT
- CN9: to Fader-MT
- CN13: to Fader-MT
- CN14: to Fader-MT
- CN15: to Fader-MT
- CN16: to Fader-MT
- CN17: to Fader-MT
- CN18: to Fader-MT
- CN22: to Fader-MT
- CN23: to Fader-MT
- CN24: to Fader-MT
- CN28: to Fader-VR
- CN29: to Fader-VR
- CN30: to Fader-VR
- CN31: to Fader-VR
- CN32: to Fader-VR
- CN33: to Fader-VR
- CN37: to Fader-VR
- CN38: to Fader-VR
- CN39: to Fader-VR
- CN40: to Fader-VR
- CN41: to Fader-VR
- CN42: to Fader-VR

- CN43: to PNI2 1/26-CN100
to PNI2 13/26-CN100
- CN44: to PNI2 1/26-CN100
to PNI2 13/26-CN100
- CN45: to PNI2 2/26-CN100
to PNI2 14/26-CN100
- CN46: to PNI2 2/26-CN100
to PNI2 14/26-CN100
- CN47: to PNI2 3/26-CN100
to PNI2 15/26-CN100
- CN48: to PNI2 3/26-CN100
to PNI2 15/26-CN100
- CN49: to PNI2 4/26-CN100
to PNI2 16/26-CN100
- CN50: to PNI2 4/26-CN100
to PNI2 16/26-CN100
- CN51: to PNI2 5/26-CN100
to PNI2 17/26-CN100
- CN52: to PNI2 5/26-CN100
to PNI2 17/26-CN100
- CN53: to PNI2 6/26-CN100
to PNI2 18/26-CN100
- CN54: to PNI2 6/26-CN100
to PNI2 18/26-CN100
- CN55: to PNI2 7/26-CN100
to PNI2 19/26-CN100
- CN56: to PNI2 7/26-CN100
to PNI2 19/26-CN100
- CN57: to PNI2 8/26-CN100
to PNI2 20/26-CN100
- CN58: to PNI2 8/26-CN100
to PNI2 20/26-CN100
- CN59: to PNI2 9/26-CN100
to PNI2 21/26-CN100
- CN60: to PNI2 9/26-CN100
to PNI2 21/26-CN100
- CN61: to PNI2 10/26-CN100
to PNI2 22/26-CN100
- CN62: to PNI2 10/26-CN100
to PNI2 22/26-CN100
- CN63: to PNI2 11/26-CN100
to PNI2 23/26-CN100
- CN64: to PNI2 11/26-CN100
to PNI2 23/26-CN100
- CN65: to PNI2 12/26-CN100
to PNI2 24/26-CN100
- CN66: to PNI2 12/26-CN100
to PNI2 214/26-CN100



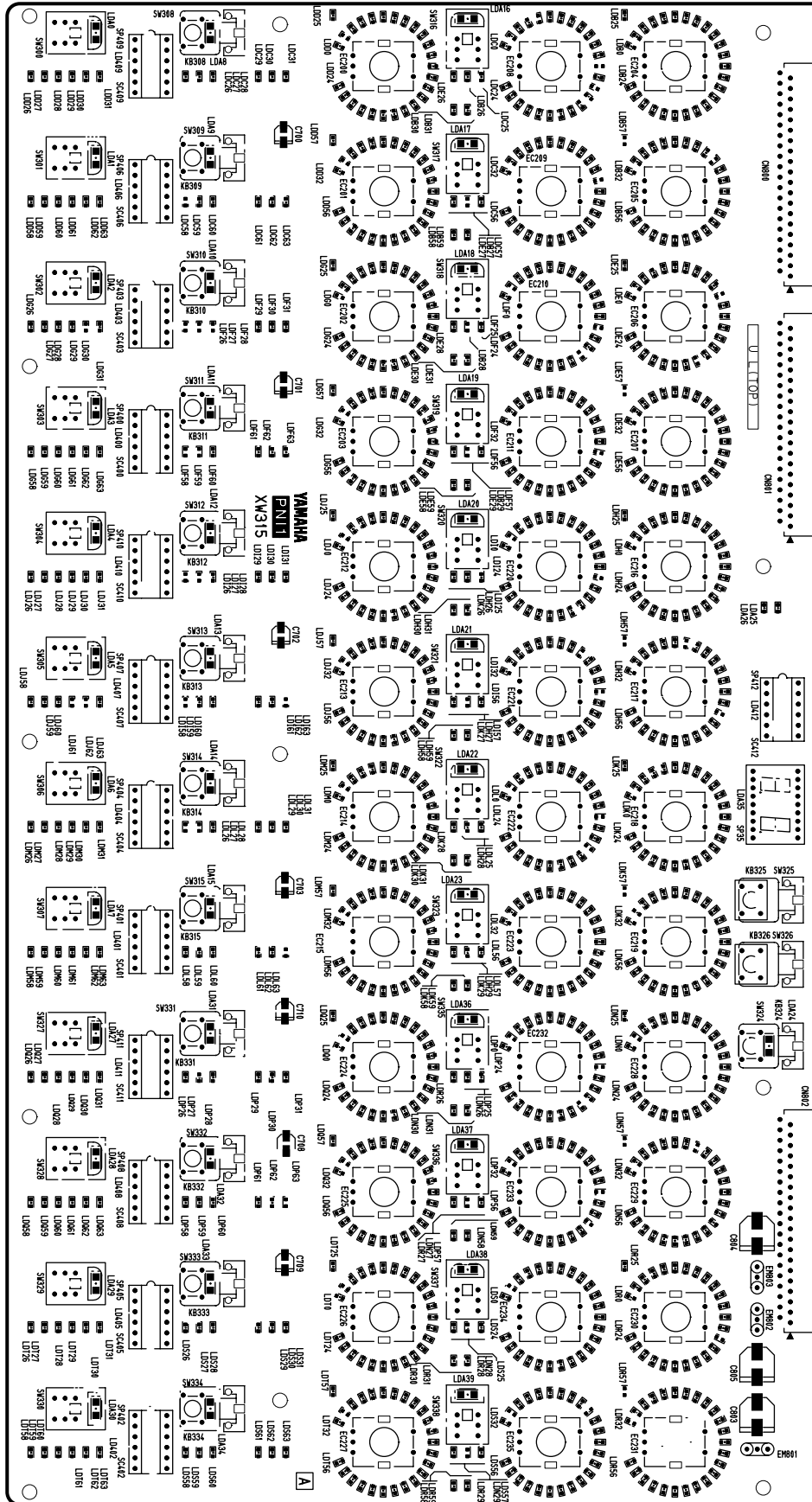
Component side

● INCPU Circuit Board



Pattern side

● PNI1 Circuit Board



Component side

INSPECTION

1. Range of Applicability

These standards apply to the CS1D.

2. Preparations

2-1. Conditions

- ◇ For details on the connection method, refer to the Test Program Specifications KES-92654.
- ◇ The function generator used for inspection must be the Sony Tektronix AFG310 or equivalent. When using the AFG310, the settings are as follows.

FUNC: PULS
 MODE: CONT
 MODUL: OFF
 AMPL: 1.800
 OFFSET: 0.900

- ◇ Unless otherwise specified, the conditions are as follows.
 - 0 dBu = 0.775 Vrms
 - The oscillator output impedance is to be 150 Ω.
 - The input impedance for the oscilloscope, level meter, etc. is to be at least 100 kΩ.
 - Noise measurement is corrected with a 12.7 kHz, -6 dB/octave low-pass filter. (Measure the average value, not the effective value.)
 - Distortion ratio measurement is corrected with an 80 kHz, -6 dB/octave low-pass filter.
 - The load for inspecting analog output uses the following conditions.

MONITOR OUT 1L,1R,2L,2R: 600 Ω
 CUE OUT L,R: 600 Ω
 PHONES: 8 Ω

- Connect PW1D to DC power input A and inspect.

2-2. Loading the Firmware

The firmware used must be the “CS1D Firmware” (managed with the already drawn CD-R assembly drawing (3JL-XY714A0)) of the PMID System Software with a version later than the version shown on the cover. For details on the firmware writing method, refer to the Test Program Specifications KES-92652.

2-3. Test Program

For details on the starting method etc., refer to the Test Program Specifications KES-92654.

3. Inspection

3-1. Inspection with Test Program

- Inspect based on the Test Program Specifications KES-92654.

3-2. MONITOR OUT AL, AR, BL, BR

Conditions: Inspect according to 16. ANALOG OUT in the Test Program Specifications KES-92654.

(1) Gain (AL, AR, BL, and BR)

Conditions: MONITOR OUT level maximum

Input frequency	Input level	Rated output level	Tolerance range
1 kHz	+10 dBu	+10 dBu	+10 +/- 1.0 dBu

(2) f characteristic (AL, AR, BL, and BR)

Conditions: MONITOR OUT level maximum

1 kHz reference for tolerance range

Input frequency	Input level	Tolerance range
20 Hz	+10 dBu	-2 to +1.0 dB
20 kHz	+10 dBu	-2 to +1.0 dB

(3) Distortion (AL, AR, BL, and BR)

Conditions: MONITOR OUT level maximum

Input frequency	Output level	Tolerance range
1 kHz	+10 dBu	0.02 % max.
1 kHz	+23 dBu	0.01 % max.

(4) Residual noise (AL, AR, BL, and BR)

Conditions: 2-TRACK IN ANALOG 1L, 1R, 2L, and 2R shorted with 150 Ω.

MONITOR OUT LEVEL	Tolerance range
MAX	-86 dBu max.
MIN	-96 dBu max.

(5) Level differences between AL and AR and between BL and BR

The difference in gain measured in (1) must be within the following range.

Tolerance range
1 dB max.

(6) Crosstalk between AL and AR and between BL and BR

Conditions: MONITOR OUT level maximum

Input frequency	Output level (L)	Tolerance range (R)
1 kHz	+20 dBu	-60 dBu max.

The same must also be true for the right side.

(7) Maximum output (AL, AR, BL, and BR)

Conditions: MONITOR OUT level maximum

Input frequency	Output level	Tolerance range (distortion ratio)
1 kHz	+24 dBu	1 % max.

3-3. CUE OUT L, R

Conditions: Inspect according to 16. ANALOG OUT in the Test Program Specifications KES-92654.

(1) Gain (left and right)

Conditions: CUE OUT level maximum

Input frequency	Input level	Rated output level	Tolerance range
1 kHz	+10 dBu	+10 dBu	+10 +/- 1.0 dBu

(2) f characteristic (left and right)

Conditions: CUE OUT level maximum

1 kHz reference for tolerance range

Input frequency	Input level	Tolerance range
20 Hz	+10 dBu	-2 to +1.0 dB
20 kHz	+10 dBu	-2 to +1.0 dB

(3) Distortion ratio (left and right)

Conditions: CUE OUT level maximum

Input frequency	Output level	Tolerance range
1 kHz	+10 dBu	0.02 % max.
1 kHz	+23 dBu	0.01 % max.

(4) Residual noise (left and right)

Conditions: 2-TRACK IN ANALOG 1L and 1R shorted with 150 Ω.

CUE OUT LEVEL	Tolerance range
MAX	-86 dBu max.
MIN	-96 dBu max.

(5) Level differences between left and right

The difference in gain measured in (1) must be within the following range.

Tolerance range
1 dB max.

(6) Crosstalk between left and right

Conditions: CUE OUT level maximum

Input frequency	Output level (L)	Tolerance range (R)
1 kHz	+20 dBu	-60 dBu max.

The same must also be true for the right side.

(7) Maximum output (AL, AR, BL, and BR)

Conditions: CUE OUT level maximum

Input frequency	Output level	Tolerance range (distortion ratio)
1 kHz	+24 dBu	1 % max.

3-4. Output Level Difference

The gain differences when MONITOR OUT AL, AR, BL, and BR and CUE OUT L and R are measured at 1 kHz must be within the following range.

Tolerance range
2 dB max.

3-5. PHONES OUT AL, AR, BL, and BR

Conditions: Inspect according to 16. ANALOG OUT in the Test Program Specifications KES-92654.

Measure the SELECT INPUT CHANNEL side terminal and front pad bottom terminal.

(1) Gain (AL, AR, BL, and BR)

Conditions: PHONES OUT level maximum

Input frequency	Input level	Rated output level	Tolerance range
1 kHz	+10 dBu	0 dBu	0 +/- 2.0 dBu

(2) f characteristic (AL, AR, BL, and BR)

Conditions: PHONES OUT level maximum

1 kHz reference for tolerance range

Input frequency	Input level	Tolerance range
20 Hz	+10 dBu	-3 to +1.0 dB
20 kHz	+10 dBu	-3 to +1.0 dB

(3) Distortion ratio (AL, AR, BL, and BR)

Conditions: PHONES OUT level maximum

Input frequency	Output level	Tolerance range
1 kHz	0 dBu	0.7 % max.
1 kHz	+3 dBu	1 % max.

(4) Residual noise (AL, AR, BL, and BR)

Conditions: 2-TRACK IN ANALOG 1L, 1R, 2L, and 2R shorted with 150 Ω.

PHONES OUT LEVEL	Tolerance range
MAX	-88 dBu max.
MIN	-91 dBu max.

(5) Level differences between left and right

The difference in gain measured in (1) must be within the following range.

Tolerance range
2 dB max.

(6) Crosstalk between AL and AR and between BL and BR

Conditions: PHONES OUT level maximum

Input frequency	Output level (L)	Tolerance range (R)
1 kHz	+3 dBu	-52 dBu max.

The same must also be true for the right side.

3-6. TALKBACK 1, 2

Conditions: Inspect according to 15. ANALOG IN in the Test Program Specifications KES-92654.

MONITOR OUT level maximum

A. Talkback level max. -44dB On

(1) Gain (1 and 2)

Input frequency	Input level	Rated output level	Tolerance range
1 kHz	-44 dBu	+10 dBu	+10 +/- 2.0 dBu

(2) f characteristic (1 and 2)

Conditions: 1 kHz reference for tolerance range

Input frequency	Input level	Tolerance range
20 Hz	-44 dBu	-2 to +1.0 dB
20 kHz	-44 dBu	-2 to +1.0 dB

(3) Distortion ratio (1 and 2)

Input frequency	Output level	Tolerance range
1 kHz	+10 dBu	0.1 % max.

(4) Noise level EIN (1 and 2)

Conditions: Input terminal shorted with 150 Ω.

Tolerance range
-72 dB max.

However, if the noise level is not in the above tolerance range, this condition must be met:

Measurement value - (gain at 1 kHz)= -126

(5) Level differences between 1 and 2

The difference in gain measured in (1) must be within the following range.

Tolerance range
1 dB max.

B. TALKBACK LEVEL MAX. 10 dB On

(1) Gain (1 and 2)

Input frequency	Input level	Rated output level	Tolerance range
1 kHz	10 dBu	+10 dBu	+10 +/- 2.0 dBu

(2) Distortion ratio (1 and 2)

Input frequency	Output level	Tolerance range
1 kHz	+10 dBu	0.02 % max.

(3) Noise level (1 and 2)

Conditions: Input terminal shorted with 150 Ω.

Tolerance range
-81 dB max.

(4) Crosstalk between 1 and 2

Conditions: Input signal to 1 side and short 2 side with 150 Ω.

Input frequency	Output level (L)	Tolerance range (R)
1 kHz	20 dBu	-60 dBu max.

The same must be true for the 2 side too.

C. Phantom (1 and 2)

Short XLR Pin 2 and Pin 3 and connection 10 kΩ load between Pins 2 and 1. The voltage when the phantom is on must be as follows.

Tolerance range
DC34 to 38 V

When the phantom is switched off, the discharge must start immediately.

3-7. Jitter Measurement

- Connect the STEREO OUT DIGITAL A terminal to DSA1.
- Set the Fs to 48 kHz and 44.1 kHz with the test program and measure the jitter at DSA1.

	Tolerance range	
48 kHz	6 nsec max.	WORD CLOCK IN
44.1 kHz	5 nsec max.	
48 kHz	6 nsec max.	2TRACK IN DIGITAL 3
44.1 kHz	6 nsec max.	

Note) If it fails a normal inspection, re-inspect after 30 minutes of edging. It passes if it is within the permissible range.

3-8. Ramp Voltage Measurement

- Measure the voltage between Pin 3 and Pin 4 at four locations on the rear panel.
- Measure the voltage when the RAMP DIMMER control is MAX and MIN.

	Tolerance range
MAX	11.5 +/- 1 V
MIN	2.5 +/- 1 V

3-9. Fan Operation Check

- Check that the fan rotates while the power is on.
- Listen to the noise from the fan to verify that the FAN switch changes the rotation rate.
 - FAN switch high: Fast
 - FAN switch low: Slow

4. Noise

- For details on the connection method etc., refer to the Test Program Specifications KES-92654.
- Since a 2 track in digital coaxial 1,2 receiver has been selected in 1,2, use a coaxial cable (50Ω, 50m) for the connection for those terminals.
- Output 03D oscillation 1 kHz to ST OUT and YGDAI SLOT.
- (1) **Fs = 51.12 kHz (48 kHz + 6.5 %)**
 - Set the function generator to 51.12 kHz.
 - Test listen with headphones for 30 seconds and verify that there is no noise.
 - Change the connection between the DIGITAL I/O CONSOLE terminal and the DIGITAL I/O ENGINE terminal.
- (2) **Fs = 39.69 kHz (44.1 kHz -10 %)**
 - Set the function generator to 39.69 kHz.
 - Test listen with headphones for 30 seconds and verify that there is no noise.
 - Change the connection between the DIGITAL I/O CONSOLE terminal and the DIGITAL I/O ENGINE terminal and check again.

5. DC POWR INPUT B check

- Use DC power input B and check that CS1D can start.
The LCD initial screen should be displayed.

6. FIFO check

Refer to the following preparation methods and prepare the software version to be used.

Software used:	FIFO inspection software in PMID system software
Version used:	Files composed using a PMID SYSTEM SOFTWARE with a version later than the version shown on the cover. (Managed with the already drawn CD-R assembly drawing (3JL-XY714A0).
Method of preparation:	Follow the instructions in the CS1D test program specifications (Drawing No: KES-92654) titled "Procedure for extracting software groups for production and customer service applications". Once the files have been extracted, refer to the Readme.txt in the FIFODiag directory.

Connection



6-1. Check between EIF-PCIF

1. On the [UTILITY]-[PREFERENCE] screen, set mouse tapping to off and start the check program.
2. After setting mouse tapping to off, confirm that the display below is shown in red at the bottom of the screen.

00_00_00_00_00_00_00_00_00_00 (All 0)

Note: If the display is different than the one shown above, reset using mouse tapping on, restart and then set to off.

3. Confirm that there is no change in the display 30 minutes after starting the program.
4. Reinsert the CS1D connection in the engine B1 side and switch to mirror mode using the SYS/W clock system connection screen.
Then select engine B and confirm in the same way.

6-2. Check between EIF - PNC1 (Can be performed simultaneously with the inspection in 6-1)

1. While pressing the shift key on the panel, press the scene memory input key 4 and start the check program.
2. Check that the time code display section is the display shown below.

00_00_00_00 (All 0)

Note: If the display is different than the one shown above, reset while pressing the shift key and restart.

3. While pressing the shift key on the panel, press the scene memory input key 4 and start the check program.
4. Check that the time code display section is the display shown below.

7. Factory Settings

· Initialization

While holding down the left and right switches at the bottom of the track pad, switch on the power switch to start up the system, then initialize according to the screen instructions.

The knobs not controlled by the CPU are as follows.

TALKBACK LEVEL:	MIN
CUE OUT LEVEL:	MIN
MONITOR OUT A,B LEVEL:	MIN
PHONES LEVEL:	MIN
BRIGHTNESS:	MIN
LAMP DIMMER:	MIN
FAN SW:	LOW
WORD CLOCK IN 75 Ω:	ON

Software

Use the material provided in 2-2

■ TEST PROGRAM

A. Preparations for Inspection

This equipment requires firmware. When there are changes to the manufacturing processes and program for this equipment, it is necessary to write the new firmware to FlashRom from a PC. The software used and firmware used and their version numbers and concrete details of the writing method are shown below.

•PM1DLOAD installation

First, it is necessary to install in the PC the dedicated software for writing the firmware. Below is the installation method.

Software used: PM1DLOAD within PM1D system software
 Version used: [Files composed using a PM1D SYSTEM SOFTWARE with a version later than the version shown on the cover.](#)(Managed with the already drawn CD-R assembly drawing (3JL-XY714A0.)

1. Copy the directory **¥LOADER** which contains the above referenced files as is to any folder on the PC. Copy the entire directory, including all subdirectories (for each piece of firmware).
2. Right click the icon for PM1DLOAD.INI, which is one of the files copied, and display its properties. Remove the “Read-only” check on the properties screen, then press OK.
3. Open the file in 2. with Memo Pad or any other editor, change the ADVANCED item to ADVANCED = 1, then save the file.

* [The operation of 2 and 3 are set for the production process of the unit or for customer service.](#)

* The ADVANCED setting must always be 0 when the user uses the program. If you must execute this program on a user's PC, be absolutely sure to return this setting to 0 after you have completed.

•Writing the firmware

The sheets that require firmware downloading are PCIF (PS), CMU1 (the 2CPU portion of CMU/C_HIF), CMU2 (C_TCU), PNC (the 2CPU portion of PNC/CNL), INCPU (4 sheets for IN1-48ch portion), ISCPU (INSEL), MSCPU (1 CPU portion of MAS1/MAS2), OSCPU (OUTSEL), MTCPU (METER). (The names in the parentheses are the firmware names.)

Below is the firmware used. Detailed procedures are on the following pages.

Firmware used: CS1D firmware in PM1D system software
 Version used: [Files composed using a PM1D SYSTEM SOFTWARE with a version later than the version shown on the cover.](#)(Managed with the already drawn CD-R assembly drawing (3JL-XY714A0.)

* If PM1DLOAD has been installed as on the previous page, then the version for the firmware above is taken care of and there is no need to worry about it.

	Firmware name	Sheet name	Connection number for writing firmware independently
1	IN1-12	INCPU (IN 1-12)	CN1
2	IN13-24	INCPU (IN 13-24)	
3	IN25-36	INCPU (IN 25-36)	
4	IN37-48	INCPU (IN 37-48)	
5	INSEL	ISCPU	CN32
6	OUTSEL	OSCPU	CN17
7	MAS2	MSCPU	CN31
8	MAS1		
9	METER	MTCPU	CN1
10	CNL	PNC1	CN104
11	PNL		CN102
12	C_HIF	CMU1	CN104
13	C_TCU	CMU2	CN102
14	CMU	CMU1	CN102
15	PS	PCIF	CN401

“Firmware” and “subject sheet and subject connector” correspondence table

•Explanation of PM1DLOAD screen (when Advanced = 1)

* The usage precautions are the same as when ADVANCED=0. Refer to "Installation Directions" in the "PM1D SYSTEM SOFTWARE".

1. Select the connection method.
* If Host I/F***CS1D or DSP1D serial port is used
* If directly connected to HP connector for each CardDirect sheet.

2. Properly set the serial port/ connection point. However, during Card Direct, the connection point setting has no relation.

3. Select the writ object.

4. Click GetVer and each firmware version is acquired. However, this is only when "1." Host I/F is selected.

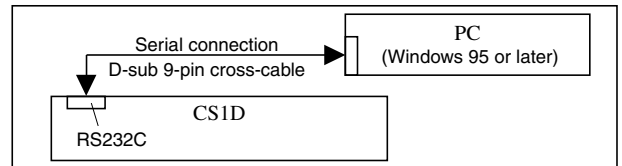
5. Check the firmware name desired for writing. All checks them all. Clear removes all checks.

Press Write or Erase as appropriate. All the items checked in the list on the left are written or erased in order from above.

•Method for writing firmware using the DSP1D RS232C port

* It is possible to write the CPU firmware from the PC via the RS232C port. This is the method normally used.

* Refer to "Installation Directions" in the "PM1D SYSTEM SOFTWARE" for precautions and other such warnings.



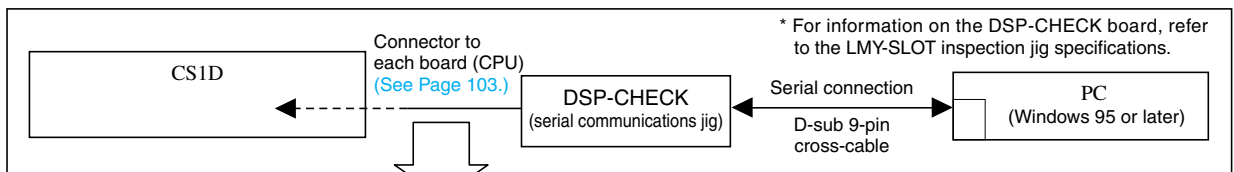
1. Install and set PM1DLOAD with the methods above.
2. At the very least, connect as shown in the figure above (when CS1D). If it is not possible to avoid making signal connections other than these, turn off the power supply for all components other than those relevant to the write object and turn off the control power supply for the volume of other components such as speakers and amplifiers.
3. Turn on the power for the write object and start PM1DLOAD. (CS1D is shown in this example.)
4. After starting the PM1DLOAD, select the Host I/F with MODE SELECT, then press OK. Use the setup menu to set the serial port. (Refer to "Installation Directions")
5. Select CS1D from the pull-down menu. (CS1D is shown in this example.)
6. Select the names of all the desired firmware, then press Write. The pieces of firmware can be selected individually if necessary, but in that case all the firmware must match the version included in the PM1D system software. (For details, refer to the individual test program specifications.)

* "Boot" is displayed in the name display unit on the INPUT, SELECTED INPUT, SELECTED OUTPUT, MASTER, and METER panels to indicate the write ready state.

7. When the writing is complete for all the units, switch the power off, then on again.
8. Press the GetVer. button and check that all the units have the appropriate versions.
9. If the writing is to DSP1D/AI8/A08, connect and set in the same way and then repeat from Step 2.
10. Once the write has been completed, end PM1DLOAD.

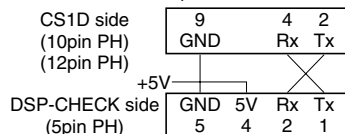
•Method for writing firmware directly to each sheet

* When there is some kind of problem and the firmware can not be written with the method on the previous page, use the method below.



For INCPU, ISCPU, OSCPU, MSCPU, and MTCPU

The connection port for DSP-CHECK is a 10/12-pin PH connector, so use a cable with the specifications below.



For CNL, PNL, C_HIF, C_TCU, CMU, and PS

The connection port for DSP-CHECK is a 5-pin PH connector, so connect the 5-pin PH connectors with a straight-wired cable.

1. Install and set PM1DLOAD with the methods above.
2. Connect a D-sub 9-pin serial cable (cross) and DSP-CHECK (serial communications jig) between the PC and the connector for the sheet to be written as in the figure above. (For the sheet names and connector numbers, see Page 103.)
3. Switch on the power for CS1D.
4. After PM1DLOAD starts up, select CardDirect with MODE SELECT, then press OK.
Use the setup menu to set the serial port. (The connection port is ignored and remains as is.)
5. Press the Update button in the CS1D item.
6. Select the name of the desired firmware, then press Write. (See Page 103.)
7. Check that immediately after the Write button is pressed, the red LED on each board stays lit up. (*1)
8. After writing ends, end PM1DLOAD.
9. Switch off CS1D and remove the PH connector, then switch the power for CS1D on again and check that it starts up normally.

(*1) If the LEDs are not staying on, add the procedure below.

[Method for changing to the write ready state manually (other than for PNL, CNL, C_HIF, C_TCU, CMU)]

- A) Short Pins 1 and 3 for the target CPU.
- B) With the CPU still shorted, switch on the power for CS1D.
- C) Check that the red LED on the target board goes On - Momentarily off - Staying on.
- D) Continue from 5. above.

•CS1D Screen software installation

It is also necessary to download the program into the CF (compact flash) card in the CPU card (V476140). For the program to use, the version used, the installation method, etc., refer to the reference below. (However, only for factory settings.)

Please install with the following special card, and when other, install with a commercial card on instruction manual for CS1D.

Master data to use:	Cart for CS1D loader for shipments to factories.
Version used:	Ver. 1.00
* Only required for factory settings.	

Firmware used:	CS1D screen software in PM1D system software
Version used:	Files composed using a PM1D SYSTEM SOFTWARE with a version later than the version shown on the cover.(Managed with the already drawn CD-R assembly drawing (3JL-XY714A0.)
* The installation method is the same. Refer to install.txt in the PM1D system software.	

•Method for extracting software for production and customer service.

Method for extracting software for production and customer service.

Of the files required for inspection, only those files that are necessary for production and customer service are compiled in a software group for production and customer service in the "PM1D SYSTEM SOFTWARE." These are in a self-extracting file format with a matching password. Therefore, the following method is required for extracting them.

1. Open the factory folder in the PM1D SYSTEM SOFTWARE.
2. Double click Factory.exe found in the factory folder.
3. You will be requested to designate the extract folder. Indicate the location to be extracted.
(Example : C:\Windows\Desktop)
4. You will be prompted for the password. Enter the password provided on the write-completed CD-R assembly
(Drawing number: 3JL-XY714A0).
5. A factory folder will be created in the location designated in Step 3. Open it.
6. ince there will be folders created for each inspection software as shown in the write-completed CD-R assembly, read the readme.txt for each folder and install and execute each inspection software. .

•PM1D inspection PC software preparation

Inspection with this device uses special PC software for inspection.

The software used, version and installation method is shown below.

Firmware used:	PM1D inspection PC software in PM1D system software
Version used:	Files composed using a PM1D SYSTEM SOFTWARE with a version later than the version shown on the cover. (Managed with the already drawn CD-R assembly drawing (3JL-XY714A0.)
Preparation method:	Follow the "procedure for extracting software groups for production and customer service applications" shown on the previous page. Once the files have been extracted, refer to the Readme.txt in the FactoryDiag directory.
* The operating systems supported are Windows 95/98.	
* USB inspection is only supported in Windows 98. (Windows 98 Second Edition is not supported yet.)	

Previously, refer to version.txt in the same directory as the CS1D firmware and input the version character string as instructed.

However, just for the SH3 input location, refer to version.txt in the same directory as the CS1D screen software.

(For details on the input positions, refer to the "PM1D Inspection PC Software Summary" given later in this document.)

• Installing the USB driver for inspection

This equipment has a USB terminal. Therefore, it is necessary to install the USB driver for inspection in the inspection PC.

The files used are included in the above PM1D inspection PC software, so install with the following procedure.

1. For the PM1D inspection PC software, start 11. CS1D Communication Test.
2. When the pop-up box for connecting the USB cable is displayed, connect the USB cable.
3. After a short while, the system asks you to specify the driver. Specify the directory containing the PM1D inspection PC software.
4. The installation proceeds as indicated by the OS.
5. After installation is complete, press the OK button on the pop-up box that came up in 2.
6. If inspection is OK, the installation has completed normally.

- * The only operating system supported is Windows98. The USB driver can not be used with Windows 98 Second Edition.
- * The USB port is only activated in the state in 2. Beware. If you insert the USB cable in any other state, it is not correctly recognized by the PCS1De and the wrong driver is installed.
- * Once the driver has been installed, the above procedure is not necessary for USB tests.
- * This driver is only for inspection. It does not add the CS1D USB function.
- * The DSP1D inspection USB driver must be installed separately.

(There are two types of USB drivers for detection for DSP1D and CS1D.)

B. Inspection Method

CS1D is controlled by the PM1D inspection PC software and the inspection is carried out autonomously. The inspection configuration diagrams are on the subsequent pages. Locations with instructions for changes have instructions for that inspection item in the PC software, so change the connections according to the instructions.

D24 setting method

For time code output, insert an MO disc (song data or the like) that can idle as long as possible. Also, switch On MMC Receive on the Utility menu and set TC Select to Serial IN on the Setup menu.

W. CLK connection method

In the 14-1. Digital I/O Coaxial 1-2 (STO board) W. CLK inspection, it is necessary to change the BNC cable. The connection method is as follows.

14-1. W.CLK inspection sub-item	Connection method
IN 48 kHz + 6 % IN 44.1kHz - 10 %	Connect the function generator and output the clocks. No need to connect
Jitter 48 kHz Jitter 44.1kHz	Connect the function generator and output the clocks. Connect the jitter meter and measure.
IN/OUT	Loopback connection between W.CLK Out and W.CLK In

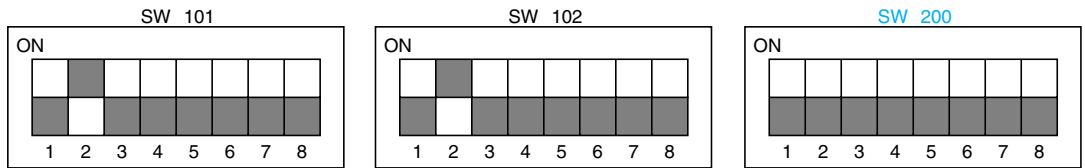
68-pin port connection method table

Inspection item	Necessary jig	ID change jig connection method	
		From left side (CN103)	From right side (CN102)
12. MIO	MIO ID change jig	To Console x	To Engine xx
13. CIO	CIO ID change jig	To Console x	To Engine xx

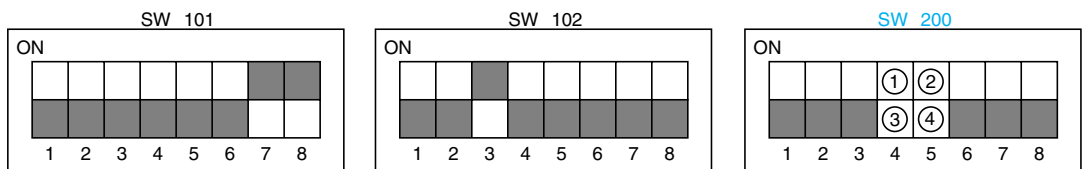
ID change jig DIP switch settings

* There are two special ID change jigs, one for each 68-pin port, but these are the same jig with just the DIP switch settings changed. In other words, you can work with just one ID change inspection jig by changing the DIP switch settings appropriately. For information on the ID change jig, refer to the LMY-SLOT inspection jig specifications.

MIO inspection settings



CIO inspection settings

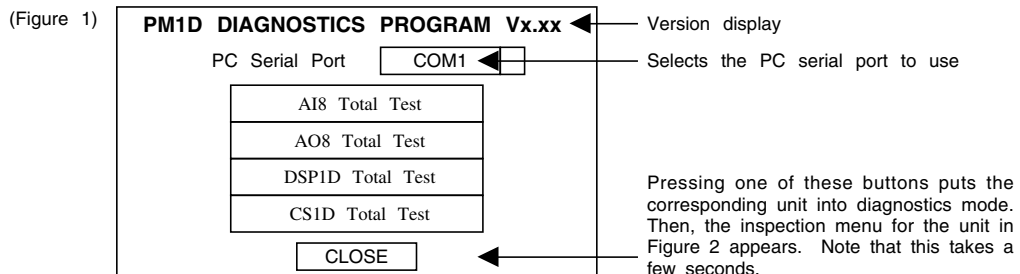


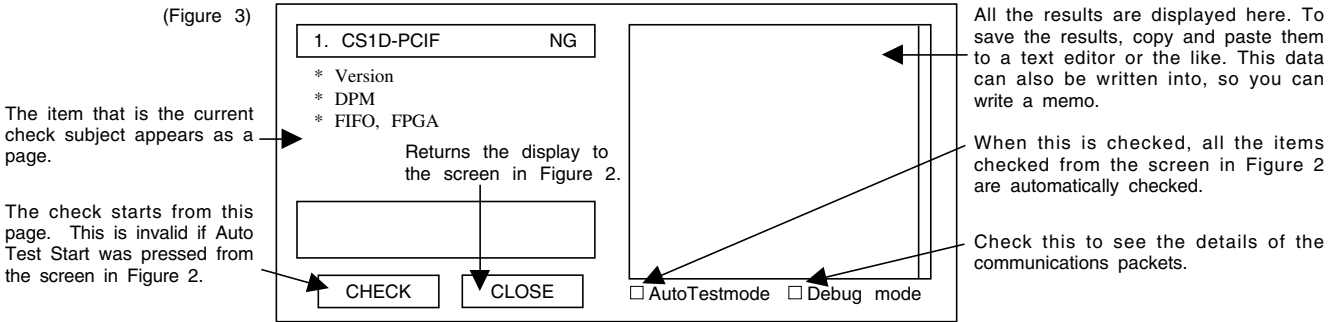
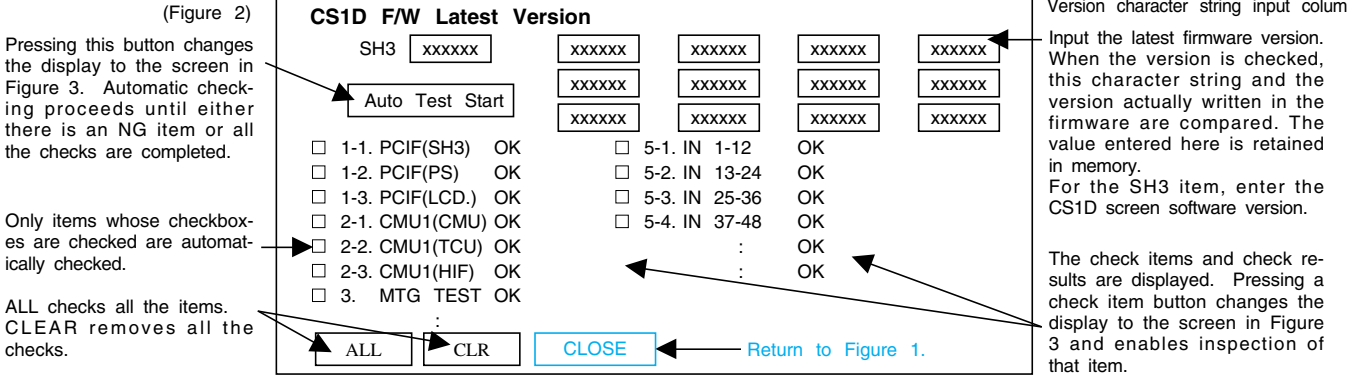
- ① MSB/LSB Line = Has been fixed at the low level.
 - ② MSB/LSB Line = Has been set as by pull amp as it
 - ③ 2CH/4CH Line = Has been fixed at the low level.
 - ④ 2CH/4CH Line = Has been set as by pull amp as it
- In each inspection item, if there are instructions to drop to the low level, set the relevant switches to ON.

PM1D inspection PC software summary

The PM1D is inspected using PC inspection software. This inspection software is common for AI8/AO8/DSP1D/CS1D.

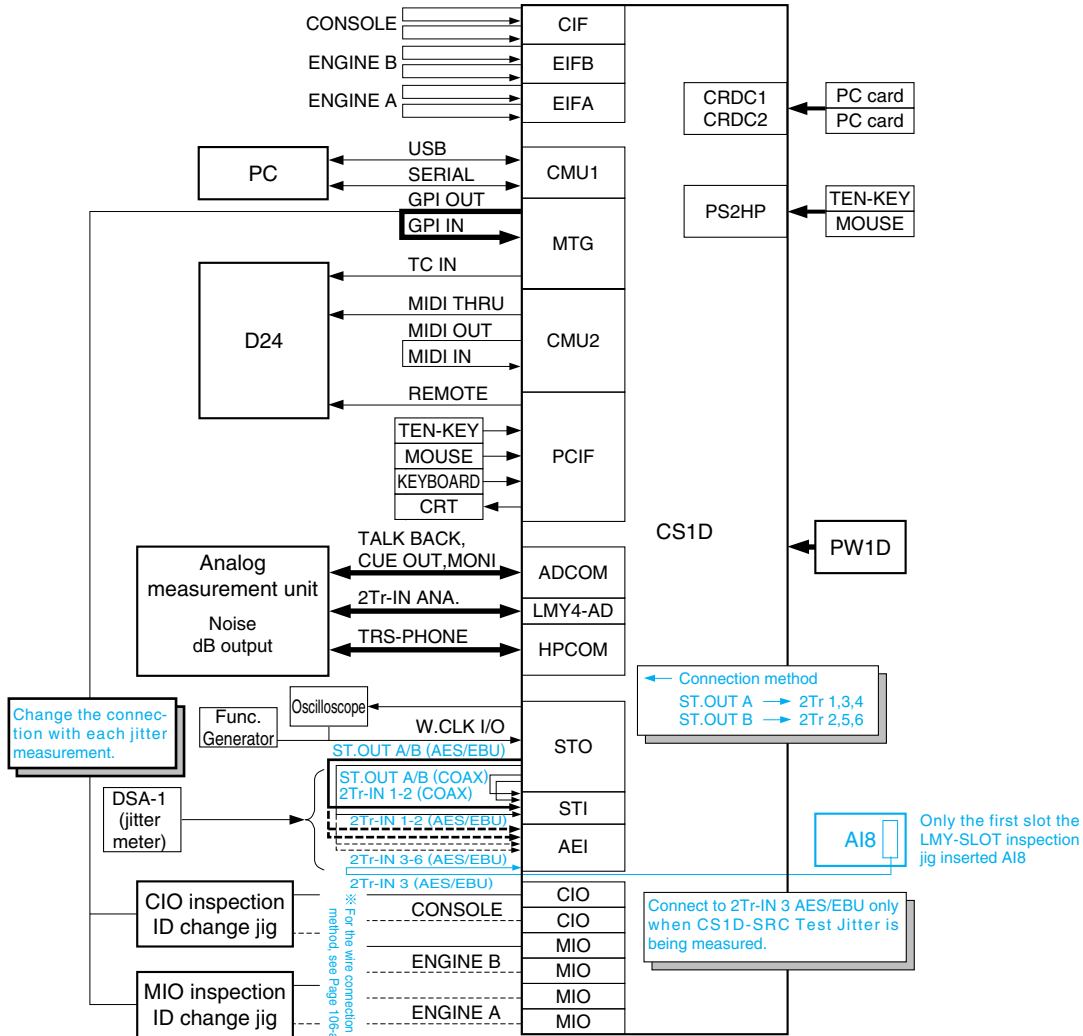
After connecting as shown in the test program specifications for the unit to be inspected (for example CS1D -> see the inspection configuration drawing on the next page), start the PM1D inspection PC software (PM1DDIAG) from Windows. Immediately after starting, the menu screen below (Screen 1) is displayed. Pressing the button for a unit to inspect starts the inspection menu screen for that unit (Figure 2).





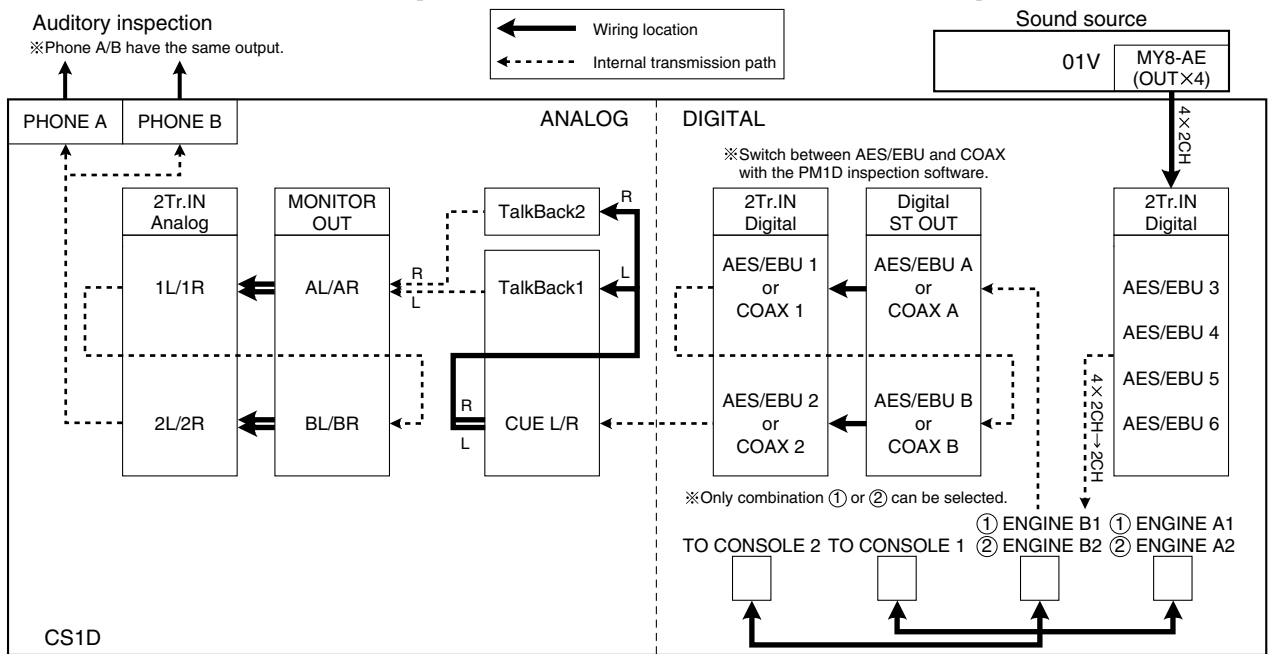
•CS1D all group stand-alone inspection composition

(The inspection can also be carried out with just one ID change jig by switching it as necessary.)



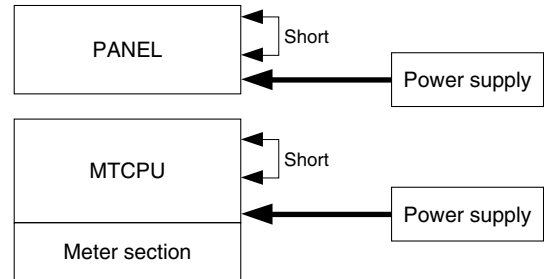
•CS1D all group sound inspection composition

The figure below is the concept diagram for audio signal output. Connect the actual section and start Inspection Item 18 to enable the sound inspection. At the locations marked AES/EBU or COAX in the figure, the signal input path must be switched to either 2Tr.In 1 or 2Tr.In 2 with the PM1D inspection software. This is how all the combinations are inspected.



•CS1D panel stand-alone inspection composition (IN, INSEL, MASTER, OUTSEL) (Reference)

* For details on how to connect shorting pins, see the panel inspection item pages.



•CS1D meter stand-alone inspection composition (Reference)

* For details on how to connect shorting pins, see the panel inspection item pages.

* When inspecting with loopback connections, since it is not possible to specify which side is NG, the input side or the output side, as much as possible pair up the board inspected with a board that has been verified as being normal. If neither board has been checked beforehand, both will have to be suspected if any abnormality is found.

C. Inspection Items

The inspection items are shown below. Details are given on subsequent pages.

No.	Items		No.	Items			
1	PCIF Test	1-1. PCIF(SH3 CARD) Test	8	SELECTED OUTPUT Panel Test			
		1-2. PCIF(PS) Test		9	METER Panel Test		
		1-3. PCIF(LCD,422), CRDC Test			10	User Interface Test	
		1-4. PCIF (USER IF) Test				11	Communication Test (EIF1, EIF2, CCAS)
2	CMU Test	2-1. CMU(CMU) Test	12				MIO Test
		2-2. CMU(TCU) Test		12-2.ENGINE A2 Test			
		2-3. CMU(HIF) Test		12-3.ENGINE B1 Test			
3	MTG Test	4-1. PNC1(PNL) Test		13	CIO Test	12-4.ENGINE B2 Test	
			4-2. PNC1(CNL) Test			13-1.CONSOLE 1 Test	
4	PNC Test	5-1. IN 1-12 Test	14	DIGITAL I/O Test	13-2.CONSOLE 2 Test		
					5-2. IN13-24 Test	14-1.COAXIAL I/O 1-2 Test	
					5-3. IN25-36 Test	14-2.AES/EBU I/O 1-2 Test	
					5-4. IN37-48 Test	14-3.AES/EBU I/O 3-6 Test	
5	INPUT Panel Test	6	SELECTED INPUT Panel Test				
6	MASTER Panel Test	7-1. MAS1 Test	15	ANALOG INPUT (2Tr.IN,TalkBack) Test			
		7-2. MAS2 Test		16	ANALOG OUTPUT (CUE,MONI,PHONE) Test		
7	MASTER Panel Test	17	SRC (2Tr.IN Digital 1-6) Test				
			18	SOUND THRU Test			

* For details on Inspections 15 and 16, refer to the CS1D Overall Inspection Specifications.

1-1. CS1D-PCIF (SH3 Card) Test

This test checks the PCIF SH card.

* For the DPM (dual port RAM) item, DPS BUS <-> CM BUS L is written. This indicates which of the DPM buses is inspected. For example, for DPS BUS <-> CM BUS L, this indicates the check of the DPS BUS side seen from the DPM (left side for the DPS BUS <-> CM BUS L notation).

OK/NG display for the page as a whole
Displayed when all the checks have been completed. If OK, sub-items are not displayed.

1-1. CS1D-PCIF(SH3 CARD) OK

- * Version Latest = ????
- * DPM OK
- DPS BUS <-> CM BUS L
- * FIFO, FPGA OK

Sub-item

Main item

Checked in order from top to bottom. Completed main items have marks next to them.

OK/NG display for individual items. The NG is displayed the moment the item is found to be NG, even if the test is still underway. If there is no response, "NO" is displayed.

Current status display

Displays all the detailed results so far. This display can be scrolled.

NG example

1-1. CS1D-PCIF(SH3 CARD)

- * Version Latest = ????
- * DPM
- DPS BUS <-> CM BUS L
- * FIFO, FPGA

Version: NG
Current = x.xx , Latest = x.xx
DPM: NG
DPS BUS <-> CM BUS L
FIFO,FPGA: NG

Now Checking ...

FPGA

Gives the current version and the latest version

1-2. CS1D-PCIF (PS) Test

This test checks around the PCIF (PS) CPU.

1-2. CS1D-PCIF(PS-IC401)

- * ID PS [05h] OK
- * Flash OK
- * Version Latest = ????

ID: ps [05h] OK
Flash(IC406): OK
Version: OK

NG example

1-2. CS1D-PCIF(PS-IC401)

- * ID xxx [xxh] NG
- * Flash NG
- * Version Latest = ????

ID: xxx [xxh] NG
Flash(IC406): NG
Checksum = xxxx [xxxx]
Version: NG
Current = x.xx , Latest = x.xx

Previously read value [] gives the correct value.

digit hexadecimal notation

Now Checking ...

Stopped the moment an actual ID NG appears; stopped at the end of the page for any other NG.

1-3. CS1D-PCIF (LCD, RS422) CRDC Test

This test checks around the LCD and PC card.

1-3. CS1D-PCIF(LCD,RS422),CRDC OK

- * LCD, CRT OK
- * CARD A, B OK

Please connect [CRT] and insert. [PC ATA FLASH CARD]x2 into card slots.

When the LCD and CRT are checked, the pop-up box on the left is displayed, so check it visually at the same time. Normally, the LCD check routine will be operating when checks other than 1-4. CIF(USER IF) are being performed. At this time, the entire LCD and CRT screens change color continuously [black → H pattern → white → red → green → blue → repeat]. The LCD passes if there are no more than three non-consecutive dots missing and the CRT passes if the same screen appears. Refer to the following items for the details of each screen.

Insert two empty ATA flash cards into the card slots before starting this test. Writing and reading are checked.

Please check [LCD] and [CRT].

OK NG

NG example

1-3. CS1D-PCIF(LCD,RS422),CRDC

- * LCD, CRT NG
- * CARD A, B NG

LCD,CRT: NG
CARD A, B: NG

Now Checking ...

[Explanation of the LCD screen check items]

The patterns shown as 1 through 8 below are repeated every five seconds. Note that the timer is cleared when the mouse pad is touched. Therefore, move the mouse at the screen that you wish to stop.

1.H character display

Check that the vertically and horizontally distortion and frame distortion.



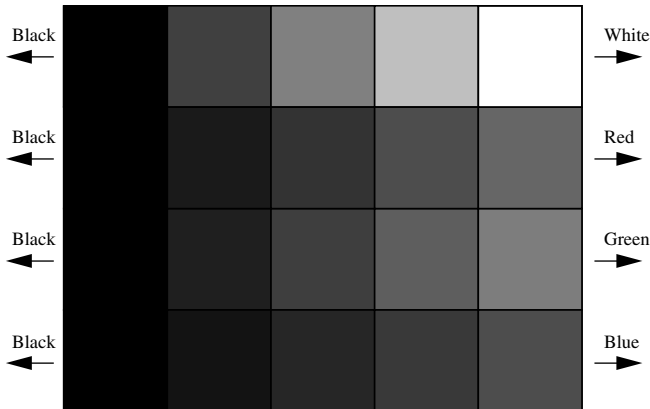
2. Alphabet display

Displays characters from Aa to Yy. Check that the characters are not flickering, that the characters from A to y are included and that the colors are not mispositioned. The characters and background are displayed as the white, black and gray are slightly changed. Also overlap the mouse cursor and check that no shadows appear.



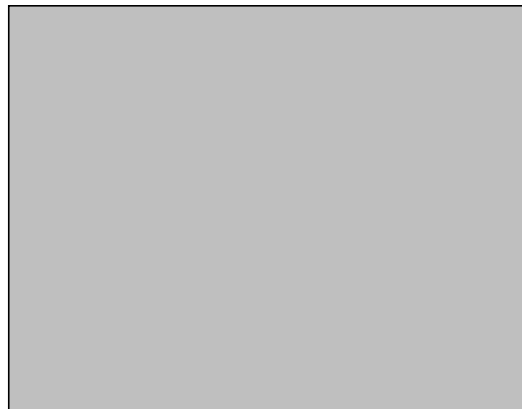
3. Color box

It will become black in gradations from right to left. Check that a 4 x 4 color other than black appears.



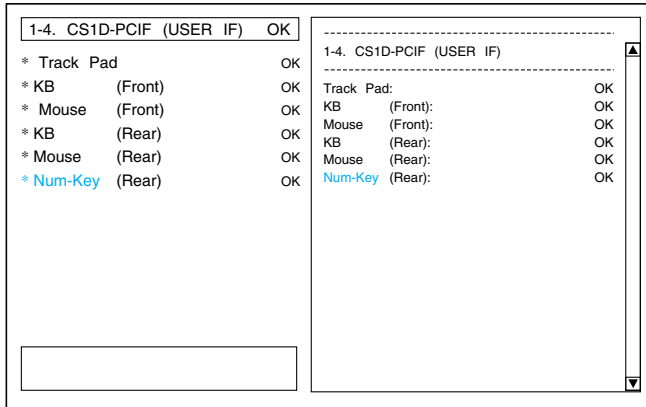
4.-8.Fill in with each of the following: white, red, green, blue and black.

Check that there are no dots that have become black or have color attached.

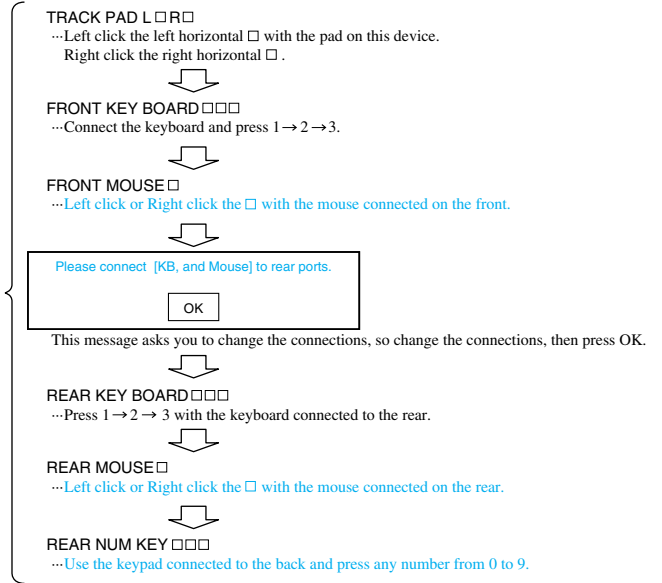


1-4. CS1D-PCIF (USER IF) Test

This test checks around the PCIF user interface.



Character strings like those on the right are displayed on the CS1D LCD. When each character string appears, work according to the instructions on the right. If the response is correct, the test result is OK. Note that if you do not operate for a while, the test times out.



2. CS1D-CMU Test

Checks CMU1 and CMU2. The items below are checked, but all these checks except the battery check are equivalent to inspections described elsewhere in this document, so the next pages explain only 2-1 in detail.

2-1. CS1D-CMU1 (CMU-IC115) Test

Checks around the CMU of CMU1.

Check item

- ID CMU [00h]
- RAM
 - Data Bus 16bit(15-0)
 - Address Bus 16bit(16-1)
- Flash (Check Sum)
- Version
- DPM
 - CM BUS <-> HI BUS L
 - CM BUS <-> TC BUS L
 - CM BUS <-> PN BUS L
 - CM BUS <-> CN BUS L
- Battery

2-2. CS1D-CMU2 (TCU-IC109) Test

Checks around the TCU of CMU2.

Check item

- ID TCU [01h]
- RAM
 - Data Bus 16bit(15-0)
 - Address Bus 16bit(16-1)
- Flash (Check Sum)
- Version
- CM BUS <-> TC BUS R

2-3. CS1D-CMU1 (HIF-IC128) Test

Checks around the HIF of CMU1.

Check item

- ID HIF [02h]
- RAM
 - Data Bus 16bit(15-0)
 - Address Bus 16bit(16-1)
- Flash (Check Sum)
- Version
- CM BUS <-> HI BUS R

2-1. CS1D-CMU1 (CMU) Test

This test checks around the CMU of CMU1.

Received ID displayed as board name and hexadecimal

Stopped the moment an actual ID NG appears; stopped at the end of the page for any other NG.

Corresponding pin number

NG example

Current status display

Displays all the detailed results so far. This display can be scrolled.

If OK, sub-items are not displayed. There are three types of decisions: OK, NG and NO (no response).

Shows the extent of deviation from the correct value.

Terminal status display Delimited in units of 8 digits right justified in the order upper then lower. 0: Normal 1: Abnormal - : Ignored

Gives the current version and the latest version

4-digit hexadecimal notation

Flash(IC119): CheckSum = xxxx [xxxx] Version: Current = x.xx , Latest = x.xx DPM: CM BUS <-> HI BUS L CM BUS <-> TC BUS L CM BUS <-> PN BUS L CM BUS <-> CN BUS L Battery: 3.0-3.4V => +x.xxV (-xx.x%)

SRAM OK: LED lit up NG: LED flashes on (0.2 s) - Off (0.2 s) - On (0.2 s) - Off (0.1 s) Flash OK: LED lit up NG: LED flashes on (0.1 s) - Off (0.1 s) - On (0.1 s) - Off (0.1 s)

3. CS1D-MTG Test

This test checks the MTG board.

A pop-up box is displayed asking you to stop D24. At this point, normally D24 should already be stopped and you can just verify this. If it cannot be stopped, stop manually.

Please stop [D24] and connect it by [Cross Serial Cable].

Please stop [D24].

Instructions appear to replace the serial cross cable with a straight cable, so change the cable as instructed, then press OK.

Replace [Cross] serial cable with [Straight] one.

A pop-up box appears verifying that D24 has gone into playback status through MIDI THRU. The inspector judges OK/NG, but since the MIDI OUT/IN loopback check is carried out at the same time, if a problem is found in the loopback check, even though the inspector presses OK, NG appears.

Please check [D24].

- Normal D24 behavior for each inspection item
- REMOTE (CROSS) D24 playback (TC send)
- TC IN TC check from D24
- REMOTE (STRAIGHT) D24 stop
- MIDI D24 playback

NG sample

Please refer to CS1D-CMU1 (CMU) Test for NG chart.

4. CS1D-PNC Test

This test checks PNC1. The checks below are carried out, but since all the checks except DPM and FIFO are equivalent inspections to 2-1, only the DPM and FIFO items are shown below. If an error is found in the FIFO check, the error code shown below is output.

4-1. CS1D-PNC1 (PNL-IC113) Test
 Checks around the PNL of PNC1.

Check item

- ID PNL [03h]
- RAM
 - Data Bus 16bit(15-0)
 - Address Bus 16bit(16-1)
- Flash (Check Sum)
- Version
- DPM PN BUS<->CM BUS L
 - Data Bus 16bit(15-0)
 - Address Bus 16bit(16-1)
- DPM PN BUS<->CN BUS L
 - Data Bus 16bit(15-0)
 - Address Bus 16bit(16-1)

4-2. CS1D-PNC1 (CNL-IC120) Test
 Checks around the CNL of PNC1.

Check item

- ID CNL [04h]
- RAM
 - Data Bus 16bit(15-0)
 - Address Bus 16bit(16-1)
- Flash (Check Sum)
- Version
- DPM PN BUS<->CN BUS R
 - Data Bus 16bit(15-0)
 - Address Bus 16bit(16-1)
- FIFO

The error codes for FIFO checks are as follows.

FIFO check error code list

When [1a=xxh] is displayed

01h	FIFO-A	No data arrival interrupt
02h	FIFO-A	The flag indicating the head byte of the sync code is not set.
03h	FIFO-A	The empty flag was set before the specified number of bytes had been read in.
04h	FIFO-A	Read-in data unmatched

When [1b=xxh] is displayed

01h	FIFO-B	No data arrival interrupt
02h	FIFO-B	The flag indicating the head byte of the sync code is not set.
03h	FIFO-B	The empty flag was set before the specified number of bytes had been read in.
04h	FIFO-B	Read-in data unmatched

5. CS1D-Input Panel Test

This test checks the input panels. The checks below are carried out, but since the checks are equivalent inspections to 2-1, see 2-1. for details.

5-1.CS1D-IN 1-12 Panel Test
 Checks around the IN 1-12 panel CPU (IC2).

Check item

- ID IN [0Bh]
- RAM
 - Data Bus 16bit(15-0)
 - Address Bus 16bit(16-1)
- Flash (Check Sum)
- Version

5-2.CS1D-IN13-24 PanelTest
 Checks around the IN 13-24 panel CPU (IC2).

Check item

- ID IN [0Bh]
- RAM
 - Data Bus 16bit(15-0)
 - Address Bus 16bit(16-1)
- Flash (Check Sum)
- Version

5-3.CS1D-IN25-36 PanelTest
 Checks around the IN 25-36 panel CPU (IC2).

Check item

- ID IN [0Bh]
- RAM
 - Data Bus 16bit(15-0)
 - Address Bus 16bit(16-1)
- Flash (Check Sum)
- Version

5-4.CS1D-IN37-48 PanelTest
 Checks around the IN 37-48 panel CPU (IC2).

Check item

- ID IN [0Bh]
- RAM
 - Data Bus 16bit(15-0)
 - Address Bus 16bit(16-1)
- Flash (Check Sum)
- Version

6. CS1D-Selected Input Panel Test

This test checks selected input panels. The checks below are carried out, but since the checks are equivalent inspections to 2-1, see 2-1. for details.

6. CS1D-SELECTED INPUT Panel Test
 Checks around the CPU(IC2) of SELECTED INPUT Panel.

Check item

- ID INSEL [09h]
- RAM
 - Data Bus 16bit(15-0)
 - Address Bus 16bit(16-1)
- Flash (Check Sum)
- Version

7. CS1D-Master Panel Test

This test checks the master panel. The checks below are carried out, but since the checks are equivalent inspections to 2-1, see 2-1. for details.

7-1. CS1D-MASTER Panel (MAS1) Test

Checks around master panel MAS1 (IC2).

Check item

- ID MAS1 [06h]
- RAM
 - Data Bus 16bit(15-0)
 - Address Bus 16bit(16-1)
- Flash (Check Sum)
- Version

7-2. CS1D-MASTER Panel (MAS2) Test

Checks around master panel MAS2 (IC12).

Check item

- ID MAS2 [07h]
- RAM
 - Data Bus 16bit(15-0)
 - Address Bus 16bit(16-1)
- Flash (Check Sum)
- Version

8. CS1D-Selected Output Panel Test

This test checks selected output panels. The checks below are carried out, but since the checks are equivalent inspections to 2-1, see 2-1. for details.

8. CS1D-SELECTED OUTPUT Panel Test

Checks around the selected output panel CPU (IC2).

Check item

- ID OUTSEL [08h]
- RAM
 - Data Bus 16bit(15-0)
 - Address Bus 16bit(16-1)
- Flash (Check Sum)
- Version

9. CS1D Meter Panel Test

This test checks the meter panel. (The CPU is IC1). The items below are checked but since all the checks except the ID check are the same as in 2-1., see 2-1. for details.

9. CS1D-METER Panel OK

2-1. CS1D-METER Panel

<p>* ID METER [0Ah] OK</p> <p>* RAM OK</p> <p style="padding-left: 20px;">DataBus</p> <p style="padding-left: 20px;">AddressBus</p> <p>* Flash OK</p> <p>* Version Latest = ??? OK</p> <p>* DSP5<->CPU OK</p> <p style="padding-left: 20px;">DataBus 00000000 00000000</p> <p style="padding-left: 20px;">PIO</p> <p style="padding-left: 20px;">00000000 00000000 00000000 00000000</p>	<p>ID: METER [0Ah] OK</p> <p>RAM(IC4): OK</p> <p>Flash(IC2): OK</p> <p>Version: OK</p> <p>DSP5(IC14,IC15): OK</p>
--	---

NG example

2-1. CS1D-METER Panel

2-1. CS1D-METER Panel

<p>* ID xxx [xxh] NG</p> <p>* RAM NG</p> <p style="padding-left: 20px;">DataBus</p> <p style="padding-left: 20px;">AddressBus</p> <p>* Flash NG</p> <p>* Version Latest = ??? NG</p> <p>* DSP5 NG</p> <p style="padding-left: 20px;">DataBus 00000000 00000000</p> <p style="padding-left: 20px;">PIO</p> <p style="padding-left: 20px;">00000000 00000000 00000000 00000000</p> <p style="text-align: center; margin-top: 10px;">Now Checking ...</p>	<p>ID: xxx [xxh] NG</p> <p>RAM(IC4): NG</p> <p style="padding-left: 20px;">DBus[xx-xx,xx-xx pin] NG</p> <p style="padding-left: 20px;">ABus[xx-xx,xx-xx pin] NG</p> <p style="padding-left: 20px;">Flash(IC2): NG</p> <p style="padding-left: 20px;">CheckSum = xxxx [xxxx] NG</p> <p style="padding-left: 20px;">Version: NG</p> <p style="padding-left: 20px;">Current = x.xx , Latest = x.xx</p> <p style="padding-left: 20px;">DSP5(IC14,IC15): NG</p> <p style="padding-left: 20px;">DataBus 00001100 01100000</p> <p style="padding-left: 20px;">PIO</p> <p style="padding-left: 20px;">00000000 00110000 00111000 00000011</p>
--	---

(**SRAM** OK: LED lit up
 NG: LED flashes on (0.2 s) - Off (0.2 s) - On (0.2 s) - Off (0.1 s)
Flash OK: LED lit up
 NG: LED flashes on (0.1 s) - Off (0.1 s) - On (0.1 s) - Off (0.1 s))

Displays the result for each pin. The display method is the same as for RAM.

10. CS1D-User Interface Test (panel inspection test)

This test checks the LED and operating elements for each panel.

The diagnostic program is executed simultaneously in parallel for all the panels and the inspector monitors visually, so there is no particular inspection method. For convenience sake, this topic is explained divided into sections 10-1. through 10-5.

Also, the same as for Items 1 through 9, these panel diagnostics can be controlled from the inspection PC software as CS1D general inspections, but the panels can also be inspected by themselves.

Panel section inspection items

- *1 Items common to all panels
- *2 Panel inspection PC software specifications
- 10-1. PNI Test (Input Module Inspection)
- 10-2. PNIS Test (Selected Input Module Inspection)
- 10-3. PNM Test (Master Module Inspection)
- 10-4. PNOS Test (Selected Output Module Inspection)
- 10-5. MT Test (Meter Module Inspection)

***1 Items common to all panels**

1. Entering panel diagnostics mode

It is possible to check the panel diagnostics for individual panels or for the entire console.

Since the diagnostics program is included in the firmware for each panel, it is possible to inspect by entering panel diagnostics mode with the procedure below.

[Switching to panel diagnostics mode with the inspection PC software]

- For entire console Enter panel diagnostics mode by selecting CS1D TOTAL TEST Item 10 [PANEL TOTAL TEST] with the inspection PC software.
- For a single panel This is not supported by inspection PC software, so change the mode manually.

[Switching to panel diagnostics mode manually]

- For entire console Enter panel diagnostics mode for all the panels connected by switching on the power while pressing the three switches DCA 10-12 on any panel at the same time.
- For a single panel Wire the serial line (according to the individual panel inspection specifications given later in this document), then switch on the power. The panel goes into panel diagnostics mode automatically.

2. Exiting panel diagnostics mode

Exiting CS1D TOTAL TEST Item 10 [PANEL TOTAL TEST] in the inspection PC software automatically takes the system out of panel diagnostics mode. Alternatively, switching the power off, then switching it on again in the normal manner returns the system to normal operation mode.

3. Panel diagnostics mode types (Each operation is carried out after entering panel diagnostics mode.)

There are three types of panel diagnostics modes: Automatic lighting check mode, All lighting check mode, and Operation element check mode. The default mode when entering panel diagnostics mode is Mode 1 Automatic lighting check mode.

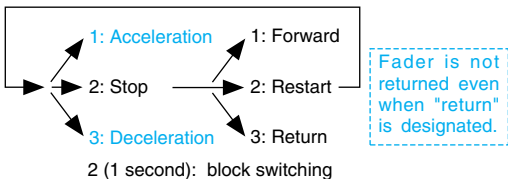
Details on these modes are given on the following pages.

*** Precautions about the operating procedure shown in the following items.**
 Since the decision is momentary when pressing both buttons simultaneously, the decision may not be proper. In such cases, please try several times. Also note that if the buttons are pressed for more than 1 second, it may be recognized as a different operation and form another combination.

(1) Mode 1 Automatic lighting check mode (Started by holding down any two switches for at least one second. This command is accepted at any time during diagnostics mode.)

The panel is divided into appropriate blocks, the LEDs and names in the blocks are lit up sequentially, and if there are any faders, they are driven up and down. Also, panel boards that are divided into multiple boards can also be checked separately.

- During diagnostics mode, press any one switch. Acceleration
- During diagnostics mode, press any two switches. Stop
- During diagnostics mode, press any three switches. Deceleration
- During diagnostics mode, press any one switch.Forward
- During diagnostics mode, press any two switches.Restart
- During diagnostics mode, press any three switches.Return



Hold down any two switches for at least

one second to switch to the next block.(When the inspection starts, the entire selected block is lit up for two seconds.)

All → ① → ②... → All → ① →

(If something other than checking all blocks has been specified, checking of only the specified blocks is repeated.)

(2) Mode 2 All lighting check mode (Started by holding down any three switches for at least one second. This command is accepted at any time during diagnostics mode except during Mode 1.)

All the LEDs and names on the panel are lit up.

Whenever it pushes arbitrary buttons for 1 second, LED can be made to turn on in the order of the following.

* Switch, fader, and encoder inputs are invalid during this test.

All lit → Switches the outer periphery LED(Orange) → Red only → Yellow only → Green only → Orange only

(3) Mode 3 Operation element check mode (Started by holding down any four switches for at least one second. This command is accepted at any time during diagnostics mode.)

Each display unit responds according to the switch, fader, and encoder input.

• Switch inputSwitches the corresponding LED on/off.

If there is no corresponding LED, the response is displayed on a nearby LED or 7-segment display unit instead.

The LED responds according to the switch type, for example changing each time the switch is pressed or changing when the switch is released.

• Fader operationDrives the paired fader.

If there is no paired fader, the response is displayed on a nearby 7-segment display element or encoder LED instead.

• Encoder operation.....Switches the outer periphery LED On/Off

If there is no outer periphery LED, the response is displayed on a nearby 7-segment display element instead.

- * Faders and encoders send their input values with serial communications, then reflect them in their drive and display when they receive the signals themselves, so the connectors must be looped back before starting the test.
- * Some elements respond even when the operation element is operated in some other mode, but this is not checked.

- * If a fader or encoder is operated during all check mode, the value is updated internally.
 During diagnostics mode, press any five switches for one second.The LED brightness changes. (1 → 2 → ... 7 → 1)
 During diagnostics mode, press any six switches for one second.The LEDs all go off. (Restore to the transition of each mode shown above.)

***2 Panel inspection PC software specifications**

The inspection method using the inspection PC software is as follows.

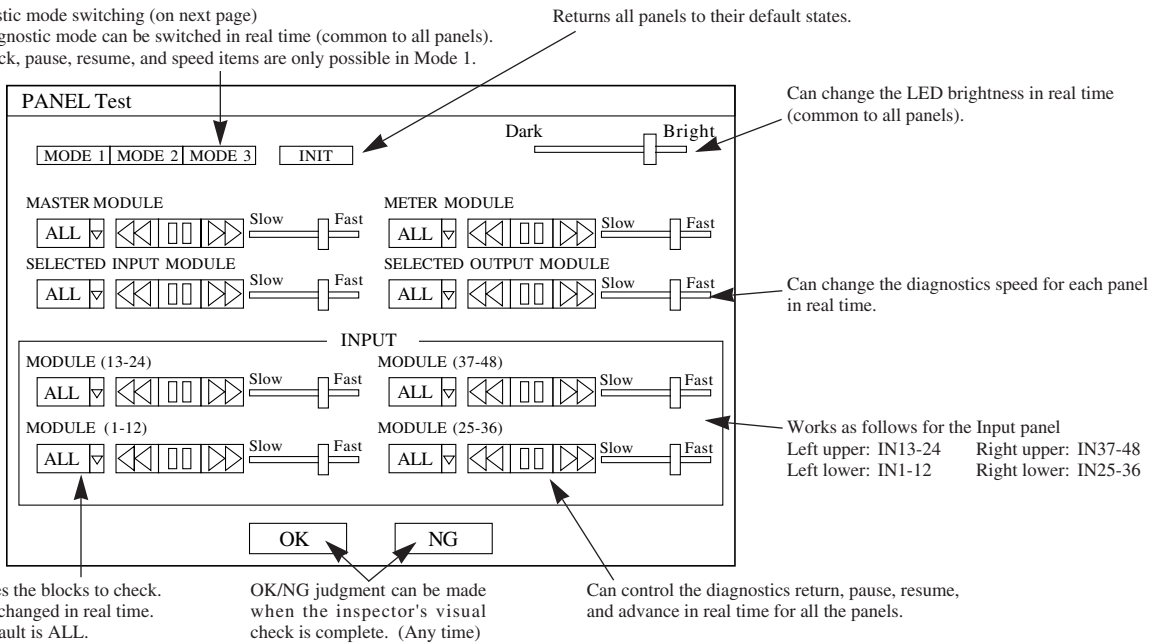
Inspection Items 1-5 are checked simultaneously in parallel. The items that can be controlled in each inspection are as follows. At this time, *1 manual operation can be carried out at the same time, but beware that in this case, the PS software is not linked. These items are used and the inspector judges OK/NG visually.

- Diagnostics speed
- LED brightness
- Block specification (Block direct specification, advance, return)
- Pause, resume

Diagnostic mode switching (on next page)

The diagnostic mode can be switched in real time (common to all panels).
 The block, pause, resume, and speed items are only possible in Mode 1.

Returns all panels to their default states.



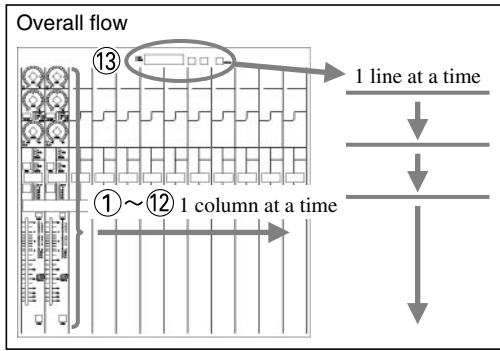
10-1. PNI Test (Input Module Inspection)

(1) Automatic lighting check mode

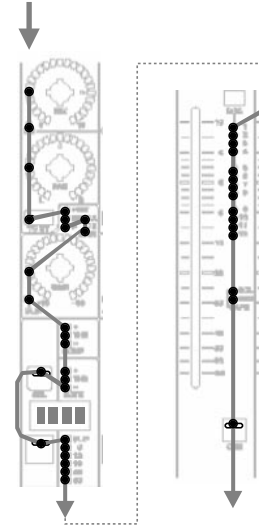
For each channel, the LED and names are lit and the faders are driven up/down.

When the inspection for 12 channels is complete, the LEDs and names are lit up horizontally.

Below are the details of automatic lighting check mode. The number are block numbers.



- ⑬
- 1) Everything but 7x5 LED lit up
 - 2) 7x5 LEDs ■ display in order from the left (■□□□ → ■■■■)
 - 3) 7-segment LEDs
 - 4) FIX → VARI → LOCAL lit up



All channels lit at the same time in the order given on the left.

- ①
- 1) Everything but 7x5 LED lit up
 - 2) 7x5 LEDs ■ display in order from the left (■□□□ → ■■■■)
 - 3) Faders ↑↓
 - 4) Everything but 7x5 LED off
 - 5) Encoder outer periphery LEDs (mix, pan, gain simultaneously)
Lit up one point at a time in the clockwise direction.
- Repeated for 12 channels

(2) All lit check mode → See *1 Items common to all panels.

(3) Operation element check mode

- **SEL switch**The LED toggles on/off each time this switch is pressed.
- **Other switches**If the LED is off, it is lit up when this switch is pressed; if it is lit up, it goes out when this switch is pressed, then released.
- **Fader operation**Operate in pairs 1/2, 3/4 ... with the partner side following
- **Encoder operation**When the knob is turned, the lighting state changes with the method corresponding to the function type.

* When carrying out diagnostics checks for single panels, connect INCPU board CN1 Pins 2 and 4 before starting the diagnostics.

10-2. PNIS Test (Selected Input Module Inspection)

(1) Automatic lighting check mode

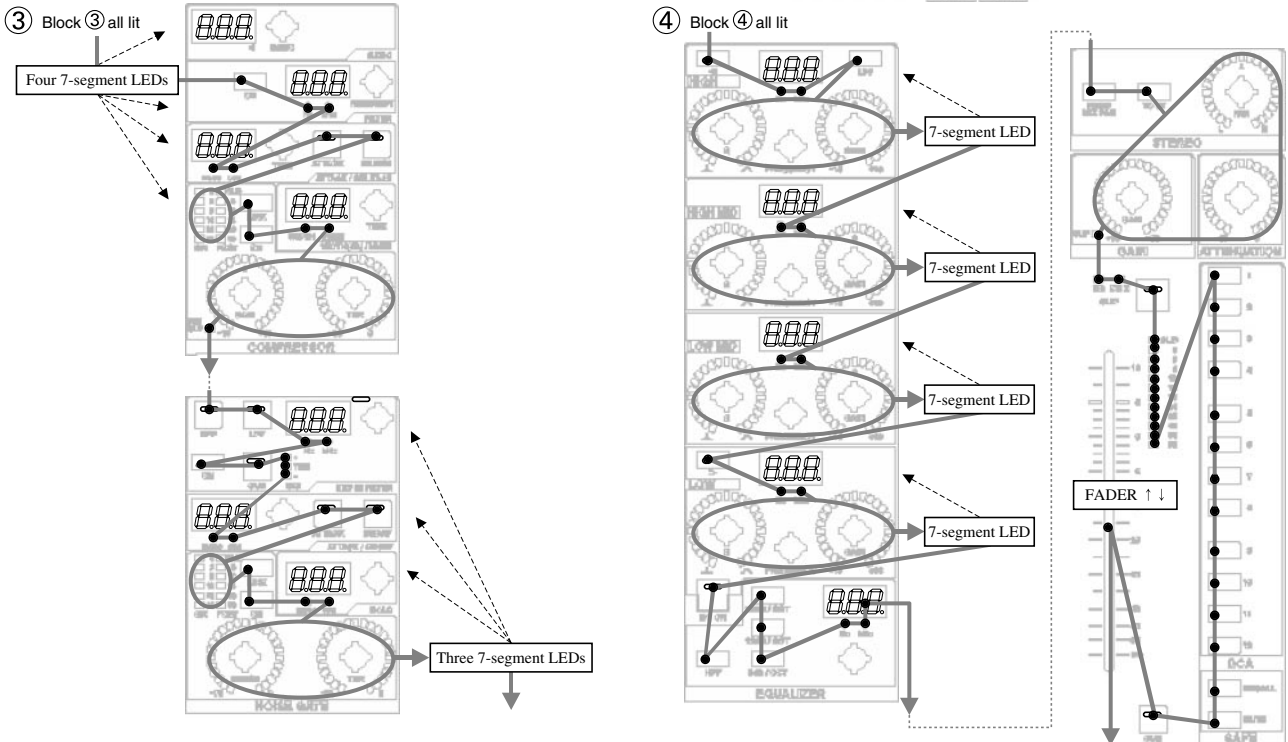
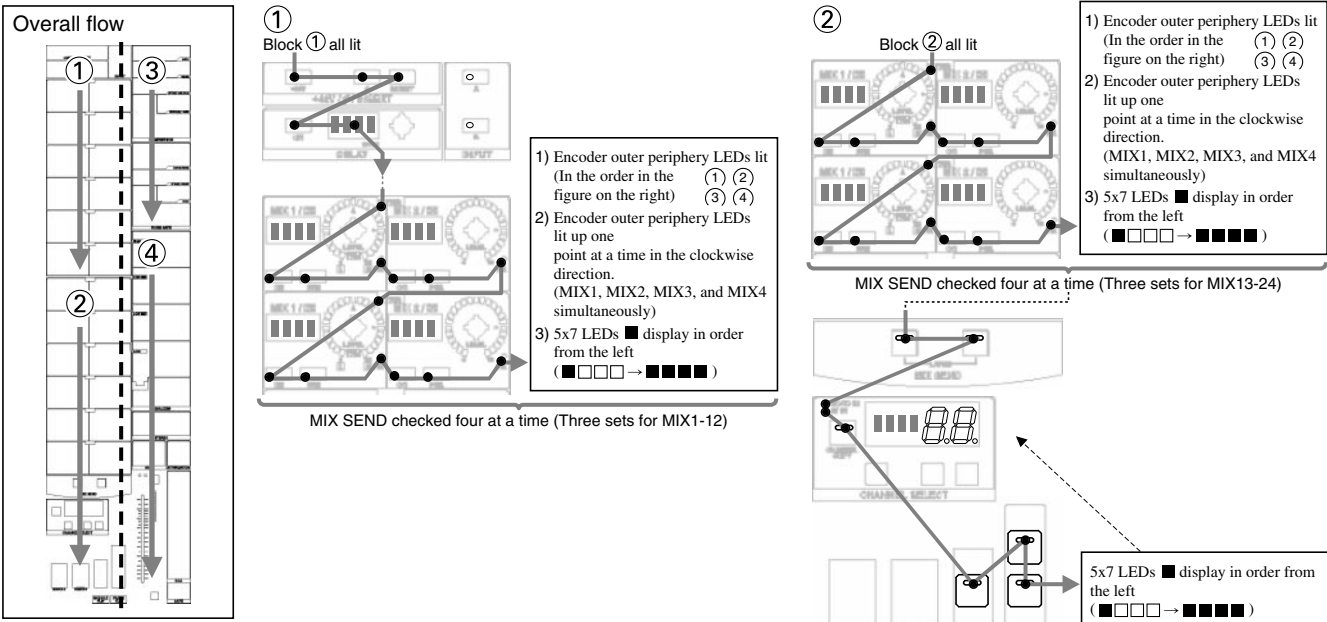
The check proceeds with the panels divided into left and right. In the left block, checking starts from the left top and proceeds MIX4H at a time.

When the left side check is complete, the right side check starts.

Also, since the panel boards are divided into a top row and a bottom row, these can be checked independently.

When this mode is entered, both the top and bottom row panels are subjects of the check. The subject of the check can be changed to the next step in the sequence below by holding down any two switches for at least two seconds.

Both top and bottom row panel → Top row panels only → Bottom row panels only → Both top and bottom row panels → Top row panels only ...



(2) All lit check mode → See *1 Items common to all panels.

(3) Operation element check mode

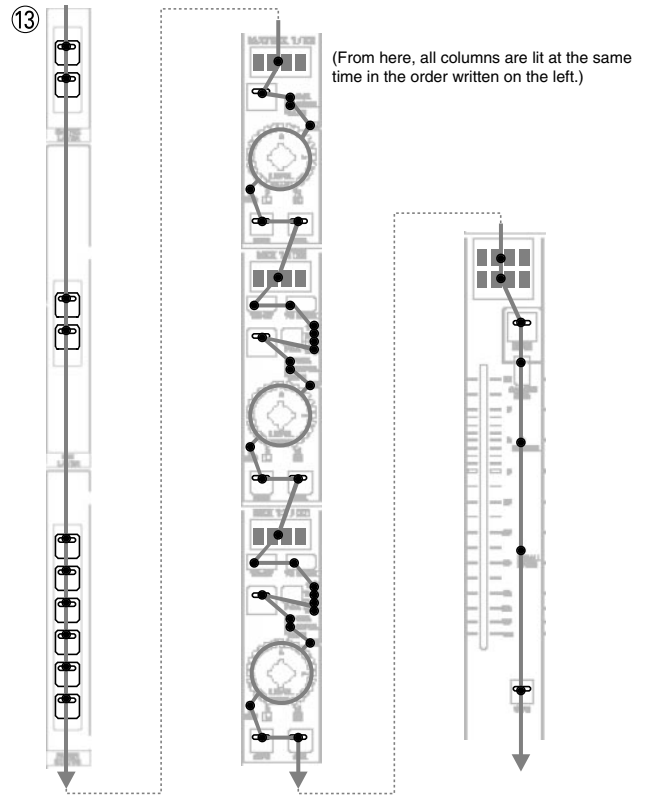
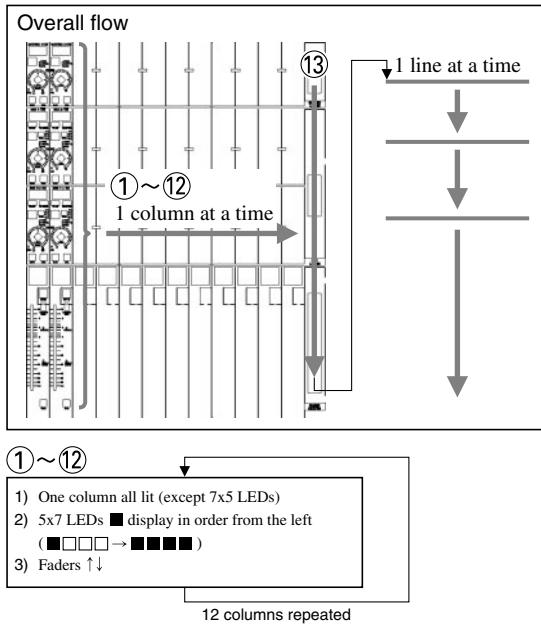
- **SHIFT switch**.....When this switch is pressed, the MONO IN and ST IN LEDs are both lit up; when this switch is released, they go out.
- **INC switch**Each time this switch is pressed, the MONO IN LED is toggled on/off.
- **DEC switch**Each time this switch is pressed, the ST IN LED is toggled on/off.
- **Other switches**The corresponding LED responds.
- **Fader operation**Since there is one not a pair, the outer periphery LED for the GAIN encoder, directly above, responds.
- **Encoder operation**.....When the knob is turned, the lighting state changes with the method corresponding to the function type.

* When carrying out diagnostics checks for single panels, connect ISCPU board CN3 Pins 2 and 4 and Pins 9 and 10 before starting the diagnostics.

10-3. PNM Test (Master Module Inspection)

(1) Automatic lighting check mode

The check proceeds one channel at a time with the panel divided vertically. When 12 channels have been checked, the check proceeds from top to bottom on the next line to the right.



(2) All lit check mode → See *1 Items common to all panels.

(3) Operation element check mode

- **SEL switch**Each time this switch is pressed, the LED is toggled on/off.
- **Other switches**If the LED is off, when the switch is pressed it lights up; if the LED is on, when the switch is released, it goes off.
- **Fader operation**Operate in pairs 1/2, 3/4 . . . with the partner side following
- **Encoder operation**When the knob is turned, the lighting state changes with the method corresponding to the function type.

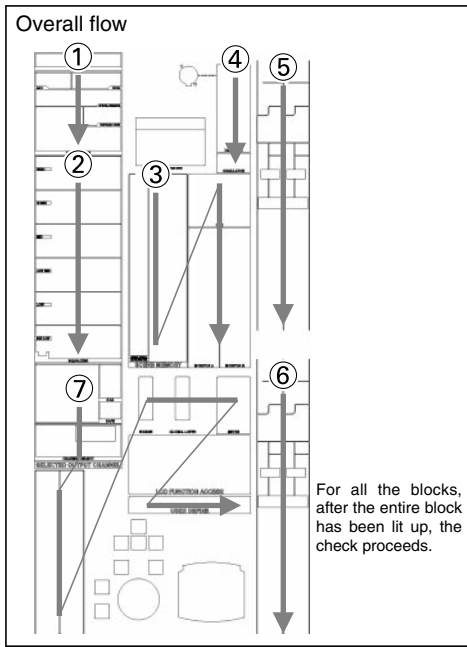
* When carrying out diagnostics checks for single panels, connect MSCPU board CN31 Pins 2 and 4 before starting the diagnostics.

10-4. PNOS Test (Selected Output Module Inspection)

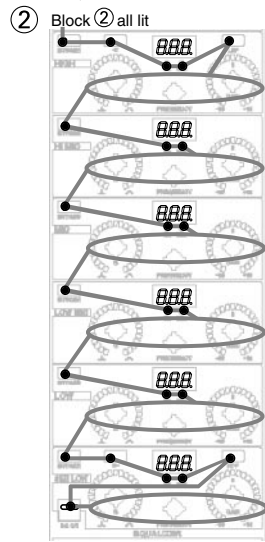
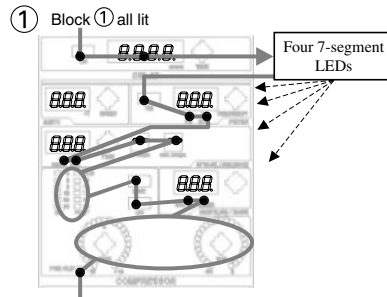
(1) Automatic lighting check mode

The panels are divided into the four sections for the checks: top left (① and ②), middle (③ and ④), top right (⑤) and bottom (⑥ and ⑦). Each check proceeds from the top left. The panel can also be checked independently.

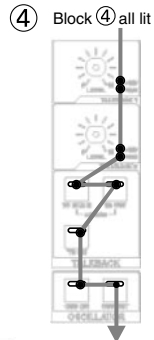
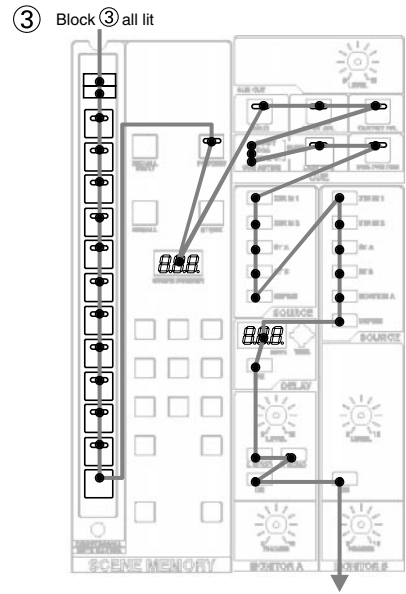
For details on the control method for manual operations, see the items common to all panels.



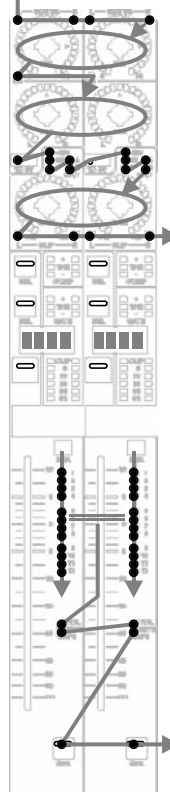
For all the blocks, after the entire block has been lit up, the check proceeds.



- 1) Encoder outer periphery LEDs lit up one point at a time in the clockwise direction. (All encoders at the same time)
- 2) Two sets of three 7-segment LEDs (After the set comprising HIGH, HI-MID, and MID are displayed at the same time, the set comprising LOW-MID, LOW, and SUB LOW are displayed at the same time.)

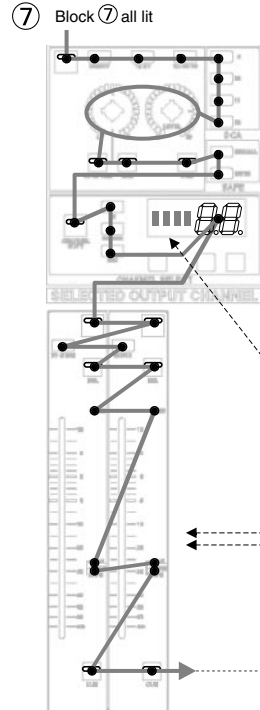


5 6 Blocks 5 and 6 all lit



Encoder outer periphery LEDs lit up one point at a time in the clockwise direction. (All encoders at the same time)

- 1) 5x7 LEDs ■ display in order from the left x2 (■□□□ → ■■■■)
- 2) Fader ↑ ↓ x2
It can move one at a time in the order of the left FADER and the right FADER.



- 1) Channel select 5x7 LEDs ■ display in order from the left x2 (■□□□ → ■■■■)
- 2) ST OUTPUT Fader ↑ ↓ x2
It can move one at a time in the order of the left FADER and the right FADER.

(2) All lit check mode → See *1 Items common to all panels.

(3) Operation element check mode

Switches with no LED are displayed as below.

- ◇ The switches around Scene Memory are displayed as numbers on the Scene Number 7-segment display unit.
- RECALL UNDO: 1.0
- STORE: 3.0
- DEC: Current display value decremented 0.1 (minimum = 0.0)
- RECALL: 2.0
- CLEAR: 0.0

- INC: Current display value incremented 0.1 (maximum = 99.9)
- Number keys: The corresponding value is displayed in the first position after the decimal point.

◇ **The switches around Selected Output Channel are displayed as numbers on the Channel Select 7-segment display unit.**

- SHIFT: 1
- DEC: Current display value decremented 1 (minimum = 1)
- INC: Current display value incremented 1 (maximum = 47)

◇ **For PC operation elements, the name is displayed on the Channel Select name display unit.**

- | | |
|--------------|---------------|
| • ↑ : “UP” | • ← : “LEFT” |
| • ↓ : “DOWN” | • → : “RIGHT” |
| • -1: “-1” | • +1: “+1” |

◇ **The LCD function access switches are displayed as fixed values on the Selected Channel 7-segment display unit.**

- EFF, GEQ, ... MONI/CUE: 11, 12, ... 18
- PATCH, INS, ... CHVIEW (OUTPUT): 21, 22, ... 28
- PATCH, IN/INS, ... CHVIEW (INPUT): 31, 32, ... 38

- **SEL switch**Each time this switch is pressed, the LED is toggled on/off.
- **Other switches**If the LED is off, when the switch is pressed it lights up; if the LED is on, when the switch is released, it goes off.
- **Fader**The partner of the pair follows.
- **PC encoder**The LEDs around the Selected Output Ch LEVEL encoder are varied.
- **Other encoders**When the knob is turned, the lighting state changes with the method corresponding to the function type.

* When carrying out diagnostics checks for single panels, connect OSCPU board CN17 Pins 2 and 4 before starting the diagnostics.

10-5. MT Test (Meter Module Inspection)

(1) Automatic lighting check mode

The STEREO and CUE meters are checked and the surrounding 7-segment LED and name display are checked. Next, Channels 1-24 are checked one channel at a time, then the check moves from top to bottom along the column. Channels 25-48 are checked in the same way.

The block number allocation is as follows

- ① STEREO/CUE/TIME-CODE/SCENE NAME
- ② INPUT 1-24
- ③ INPUT 25-48

(2) All lit check mode → See *1 Items common to all panels.

(3) Operation element check mode

None

- * For the meter panel, since there are no switches, the mode can not be switched manually. It can be switched with the PC software.
- * When the mode is set to Mode 3 Operation element check with the PC software, all the LEDs go out.
- * When carrying out diagnostics checks for single panels, connect MTCPU board CN1 Pins 2 and 4 before starting the diagnostics.

11. CS1D Communication Test

This test checks communications for the BIF1, 2, CCAS boards etc.

NG example

12. CS1D-MIO Test

This test checks the MIO board. It checks the items below.

Here it is assumed that the elements around the DSP on the MTCPU board and the CIO board are operating normally. If this can not be assumed and an NG appears for these items, it is necessary to consider the possibility of abnormality in the MIO board, the CIO board, and the MTCPU board.

The detailed screen output specifications are given on the following pages.

* There are the following restrictions on the combination of TO CONSOLE terminal (inspection reference terminal) and ENGINE terminal (inspected terminal).

- TO CONSOLE 1 — ENGINE A1 or ENGINE A2
- TO CONSOLE 2 — ENGINE B1 or ENGINE B2

12-1. CS1D-MIO (ENGINE A1) Test

This test checks the MIO (Engine A1 port).

- Check item
- SI/SO
 - W.CLK
 - ID
 - In
 - Out
 - MSB/LSB
 - 2CH/4CH

12-2. CS1D-MIO (ENGINE A2) Test

This test checks the MIO (Engine A2 port).

- Check item
- SI/SO
 - W.CLK
 - ID
 - In
 - Out
 - MSB/LSB
 - 2CH/4CH

12-3. CS1D-MIO (ENGINE B1) Test

This test checks the MIO (Engine B1 port).

- Check item
- SI/SO
 - W.CLK
 - ID
 - In
 - Out
 - MSB/LSB
 - 2CH/4CH

12-4. CS1D-MIO (ENGINE B2) Test

This test checks the MIO (Engine B2 port).

- Check item
- SI/SO
 - W.CLK
 - ID
 - In
 - Out
 - MSB/LSB
 - 2CH/4CH

12-1. CS1D-MIO (Engine A1) Test

This test checks the MIO (Engine A1 port).

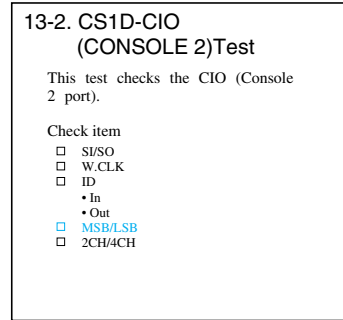
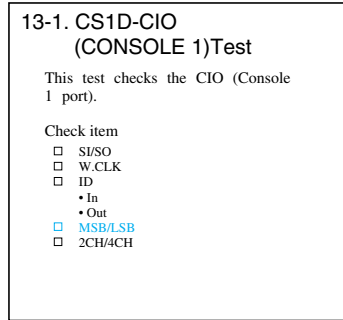
NG sample
Please refer to page 111 for NG chart.

13. CS1D-CIO Test

This test checks the CIO board. It checks the following items.

Here it is assumed that the elements around the DSP on the MTCPU board and the MIO board are operating normally. If this can not be assumed and an NG appears for these items, it is necessary to consider the possibility of abnormality in the MIO board, the CIO board, and the MTCPU board.

The detailed screen output specifications are given on the following pages.

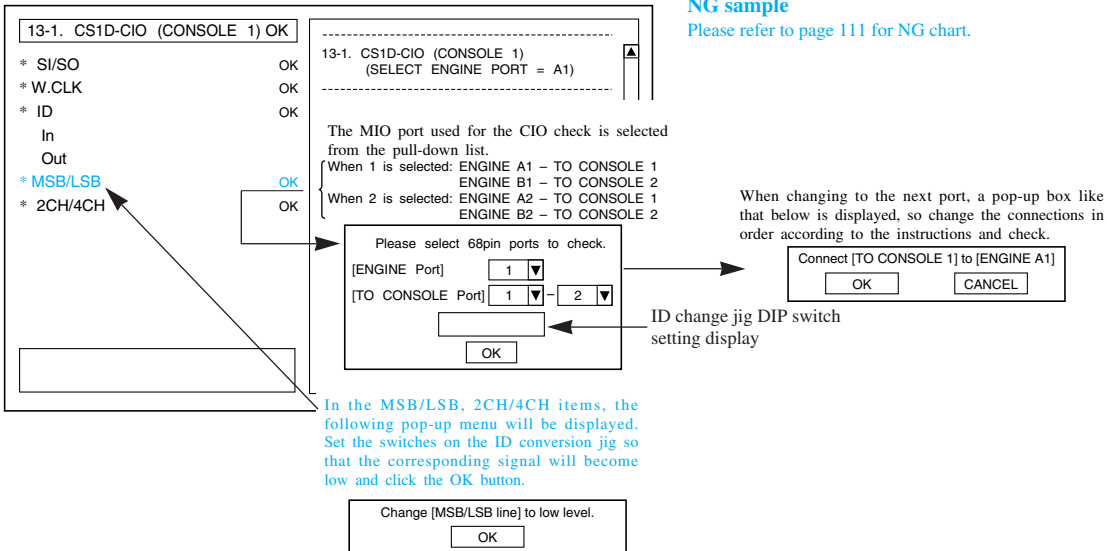


* There are the following restrictions on the combination of ENGINE terminal (inspection reference terminal) and TO CONSOLE terminal (inspected terminal).

- ENGINE A1 or ENGINE A2 — TO CONSOLE 1
- ENGINE B1 or ENGINE B2 — TO CONSOLE 2

13-1.CS1D-CIO (TO CONSOLE 1) TEST

This test checks the CIO (console 1 port).



14-1.CS1D-DIGITAL I/O (COAXIAL 1-2) TEST

This test checks the digital I/O coaxial terminal (STO port -> STI port).

<p>14-1.CS1D-DIG I/O(COAXIAL) OK</p> <ul style="list-style-type: none"> * W.CLK 75ohm SW ← OK * W.CLK OK In 48 kHz + 6% ← OK In 44.1kHz - 10% ← OK Jitter 48 kHz ← OK Jitter 44.1kHz ← OK DIR2 ← OK In/Out: ← OK LED2: ← OK * COAXIAL 1 (St.OUT A ->2Tr.IN 1) OK * COAXIAL 2 (St.OUT B ->2Tr.IN 2) OK 	<p>14-1. CS1D-DIG I/O (COAXIAL 1-2)</p> <ul style="list-style-type: none"> W.CLK 75ohm SW: OK W.CLK: OK In48kHz + 6%: OK In44.1kHz - 10%: OK Jitter48kHz: OK Jitter44.1kHz: OK DIR2: OK In/Out: OK LED2: OK COAXIAL 1 (St.OUT A -> 2Tr.IN 1): OK COAXIAL 2 (St.OUT B -> 2Tr.IN 2): OK
--	--

Detects PLL for valid detection (IC301 of IFC3 sheet).

NG sample

Please refer to page 111 for NG chart.

For the 75 Ω switch items, the pop-up box below is displayed, so send any clock with the function generator and judge visually with the oscilloscope.

Please check [WordClock 75ohm SW].

OK NG

Normal oscilloscope behavior for 75 Ω switch

The pop-up box below is displayed for items requiring connection changes. Press OK to start the check.

Please prepare for [48kHz + 6% W.CLK].

OK

After the check is started with the above pop-up box, a pop-up box is displayed for the inspector to enter the results of their visual check, OK or NG.

Please check [Jitter (48kHz)].

OK NG

14-2.CS1D-DIGITAL I/O (AES/EBU 1-2) TEST

This test checks whether or not audio data and channel status signals are correctly transmitted and received at the digital I/O AES/EBU terminal (STO port -> STI port).

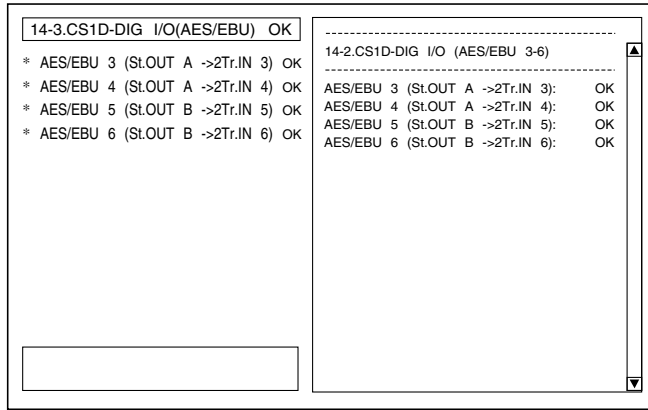
<p>14-2.CS1D-DIG I/O(AES/EBU) OK</p> <ul style="list-style-type: none"> * AES/EBU 1 (St.OUT A ->2Tr.IN 1) OK * AES/EBU 2 (St.OUT B ->2Tr.IN 2) OK 	<p>14-2.CS1D-DIG I/O (AES/EBU 1-2)</p> <ul style="list-style-type: none"> AES/EBU 1 (St.OUT A ->2Tr.IN 1): OK AES/EBU 2 (St.OUT B ->2Tr.IN 2): OK
---	---

NG example

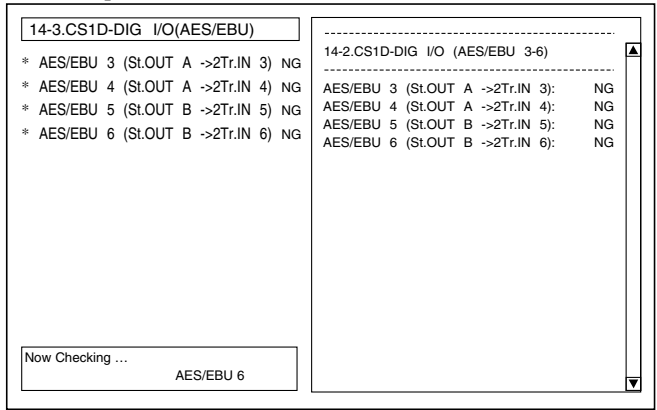
<p>14-2.CS1D-DIG I/O(AES/EBU)</p> <ul style="list-style-type: none"> * AES/EBU 1 (St.OUT A ->2Tr.IN 1) OK * AES/EBU 2 (St.OUT B ->2Tr.IN 2) OK <p>Now Checking ...</p> <p>AES/EBU 2</p>	<p>14-2.CS1D-DIG I/O (AES/EBU 1-2)</p> <ul style="list-style-type: none"> AES/EBU 1 (St.OUT A ->2Tr.IN 1): NG AES/EBU 2 (St.OUT B ->2Tr.IN 2): NG
---	---

14-3.CS1D-DIGITAL I/O (AES/EBU 3-6) TEST

This test checks whether or not audio data and channel status signals are correctly transmitted and received at the digital I/O AES/EBU terminal (STO port -> AEI port).

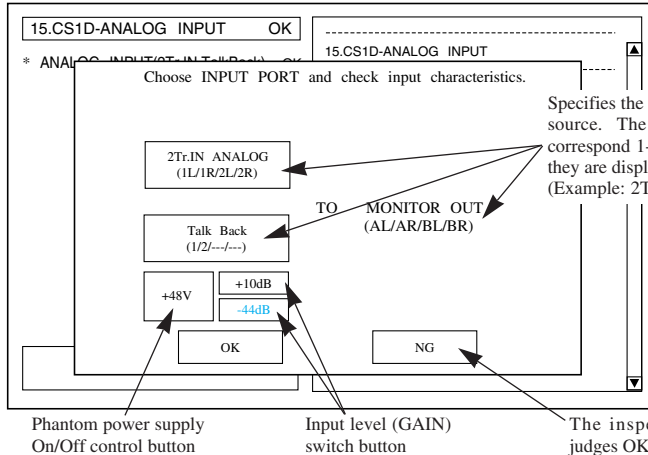


NG example

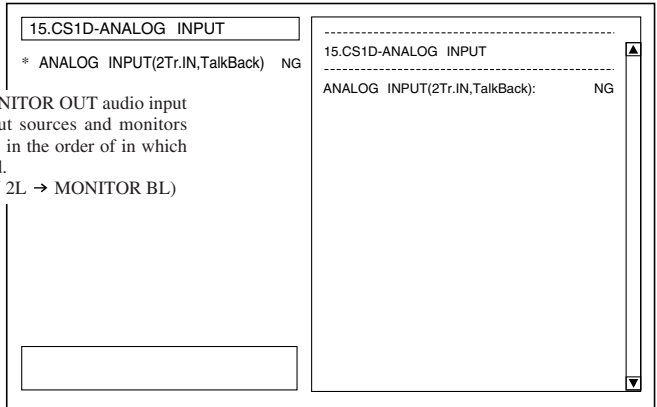


15. CS1D- ANALOG INPUT (2Tr.IN, TalkBack) Test

This test inspects the 2Tr.IN analog 1L/1R/2L/2R and TalkBack (LMY4-AD board and ADCOM board) analog characteristics. At this time, MONITOR OUT has already been inspected in 15. (If 2Tr.IN (LMY4-AD)) has already been inspected, it is ignored. After the output destination has been specified with the pop-up box, the measurements are carried out manually according to the Overall Inspection Specifications.



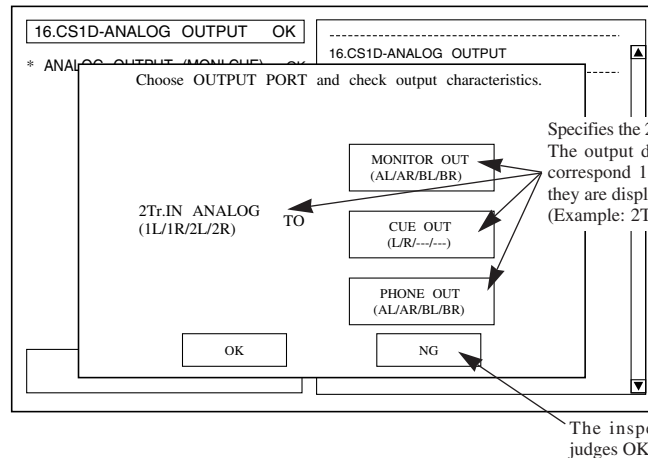
NG example



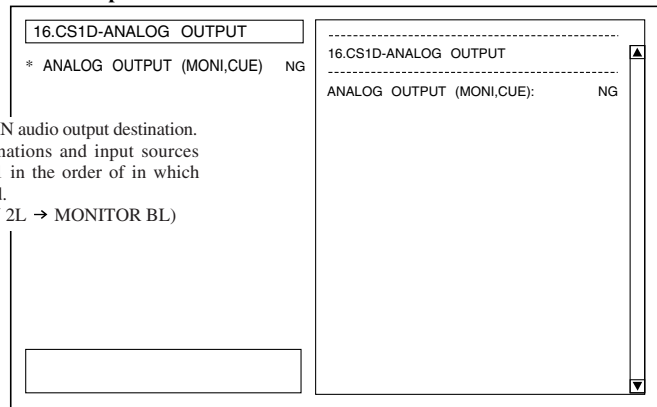
16. CS1D-ANALOG OUTPUT (MONI, CUE) Test

This test inspects the monitor, cue, TRS, and phone (ADCOM port and HPCOM port) analog characteristics. At this time, in order to correctly inspect the output characteristics, use an LMY-4AD card that has already been inspected. (Refer to the LMY4-AD Overall Inspection Specifications.)

After the output destination has been specified with the pop-up box, the measurements are carried out manually.



NG example



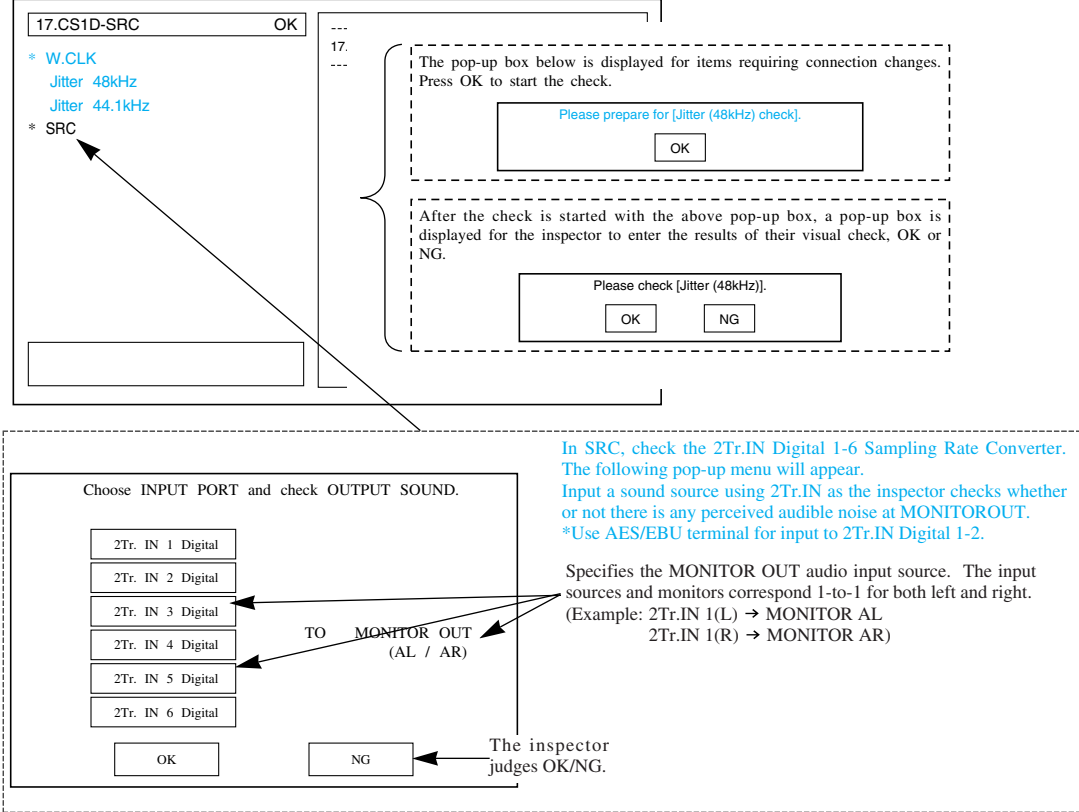
17. CS1D-SRC (2Tr.IN Digital 1-6) Test

This test checks the 2Tr.IN Digital 3 Jitter and 2Tr.IN Digital 1-6 Sampling Rate Converter

When inspecting Jitter, check the overall single unit inspection composition for CS1D on page 106-a and make the connections.

When the AI8 and LMY-SLOT inspection jigs are used for measuring jitter, refer to the AI8 (UNC) DIP switch settings in the LMY-SLOT overall inspection specifications.

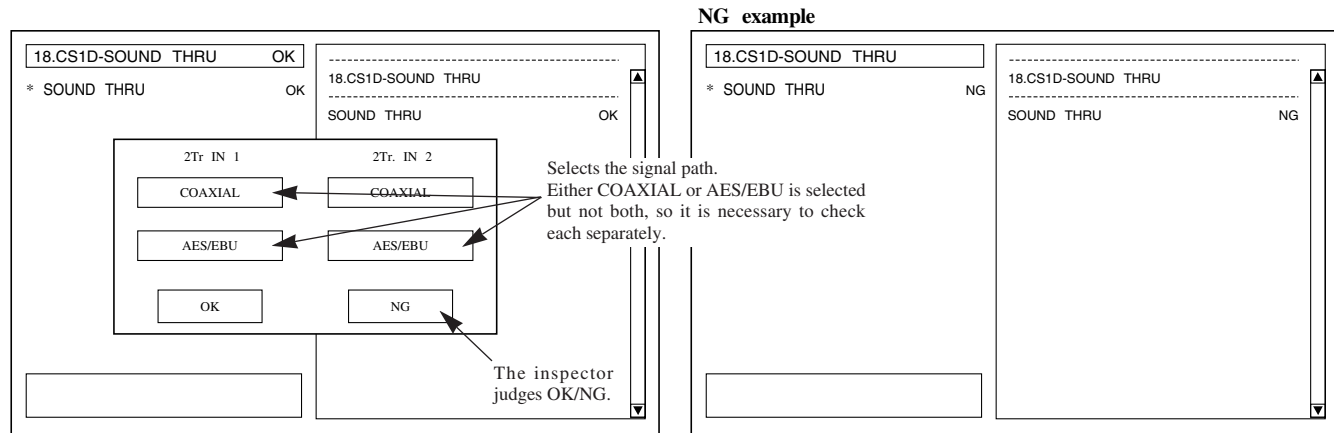
In debug mode, change the DIP switches so that there will be Int.48 kHz or 44.1 kHz for each inspection.



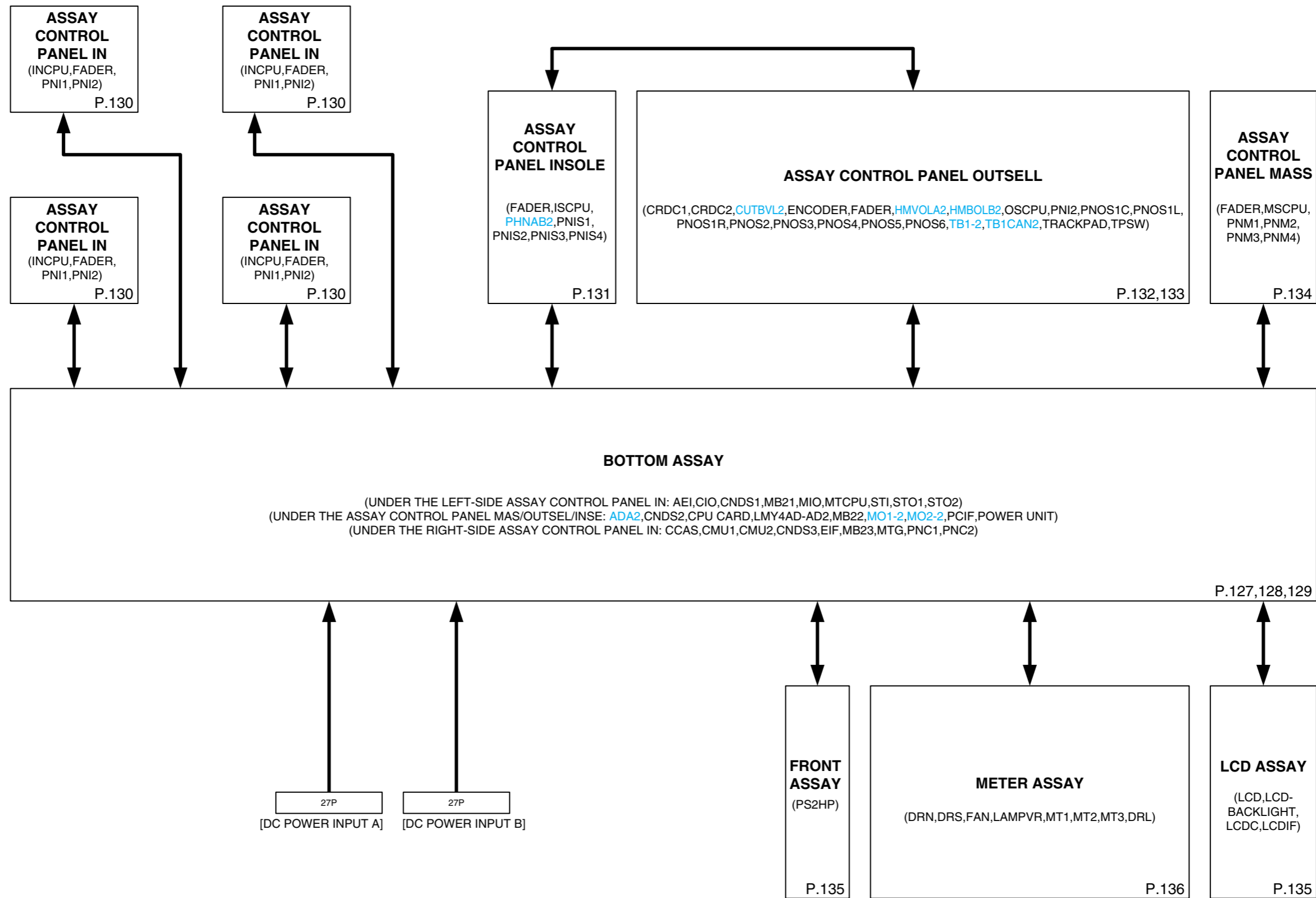
18. CS1D-SOUND THRU Test

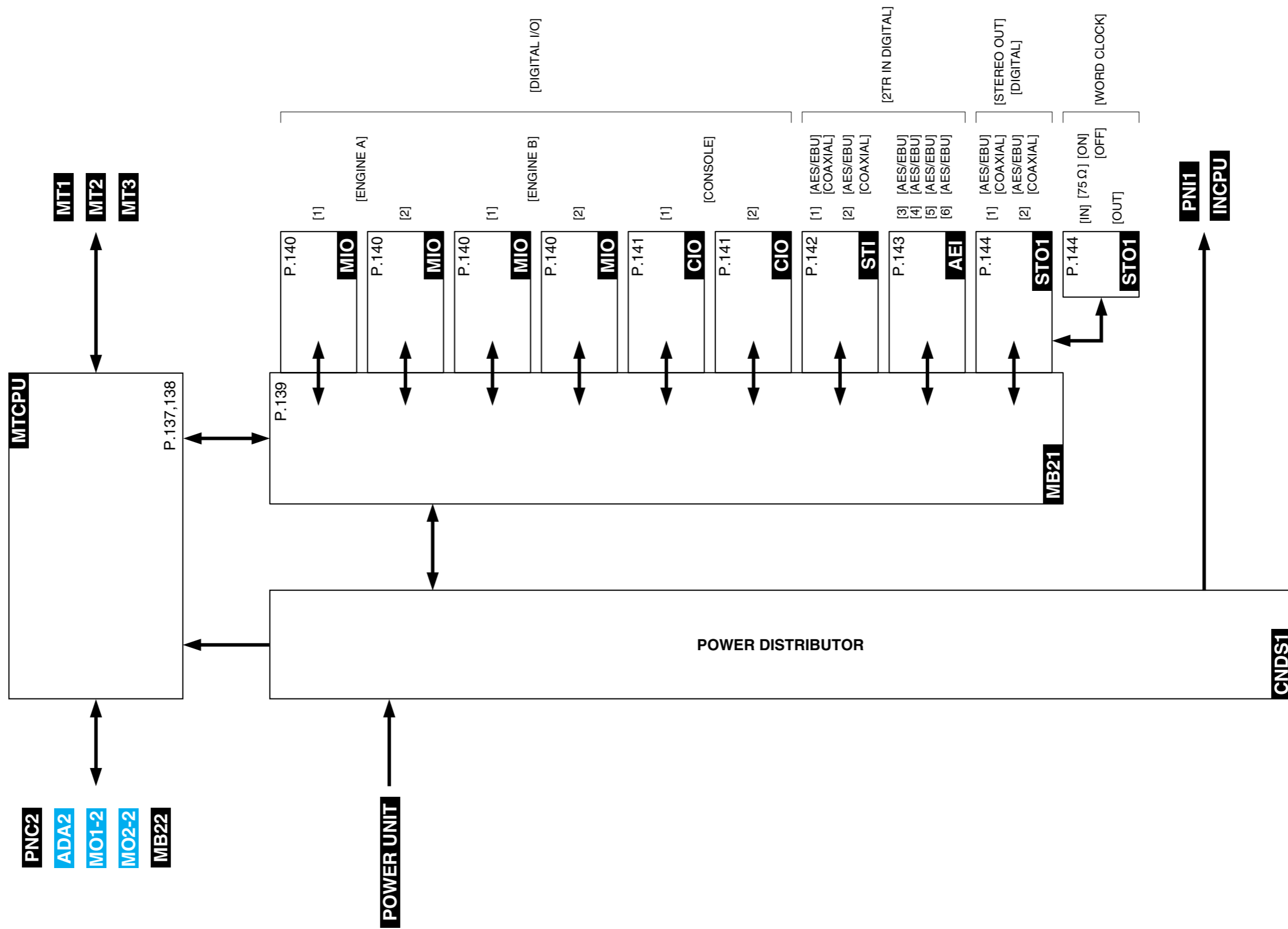
This test inspects the through sound output. By making the through sound output connections and starting this item, the audio signals are set to pass through all the ports. For a summary of the inspection and the connection method, see Page 108. The inspector listens and judges whether or not the final output is correct.

While there may be sound even with different connections, please note that this is not in the inspection.

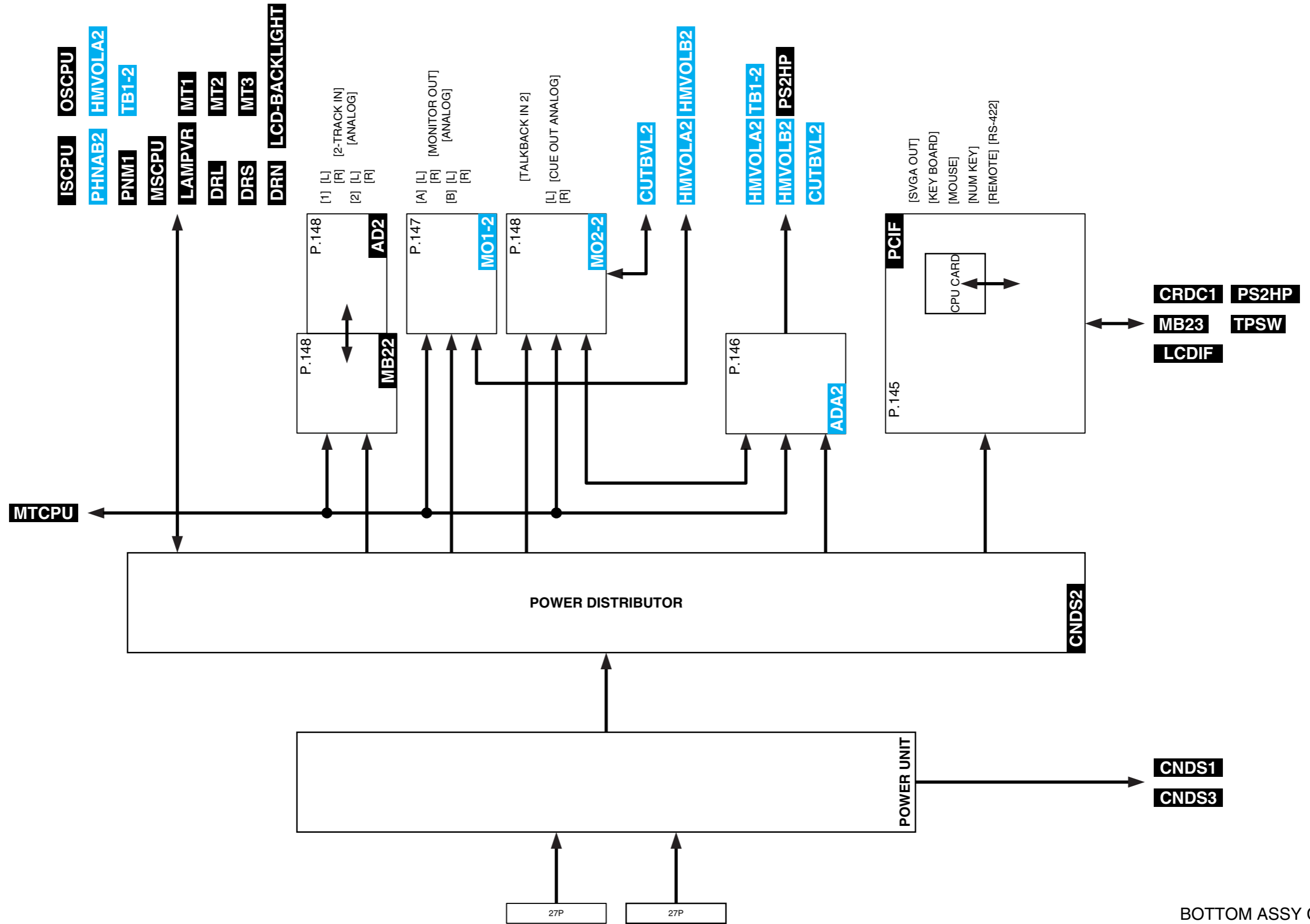


■ BLOCK DIAGRAM

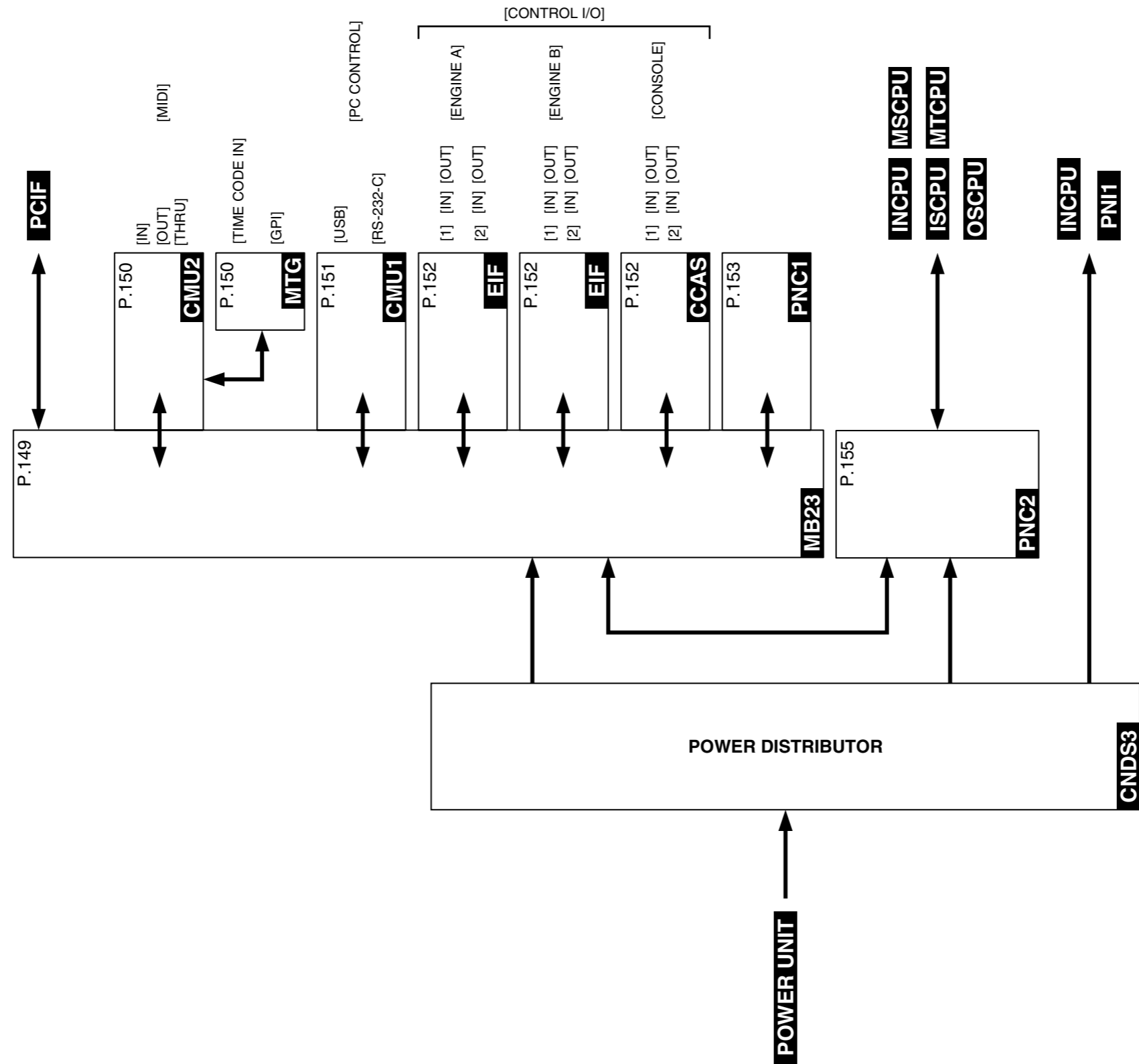




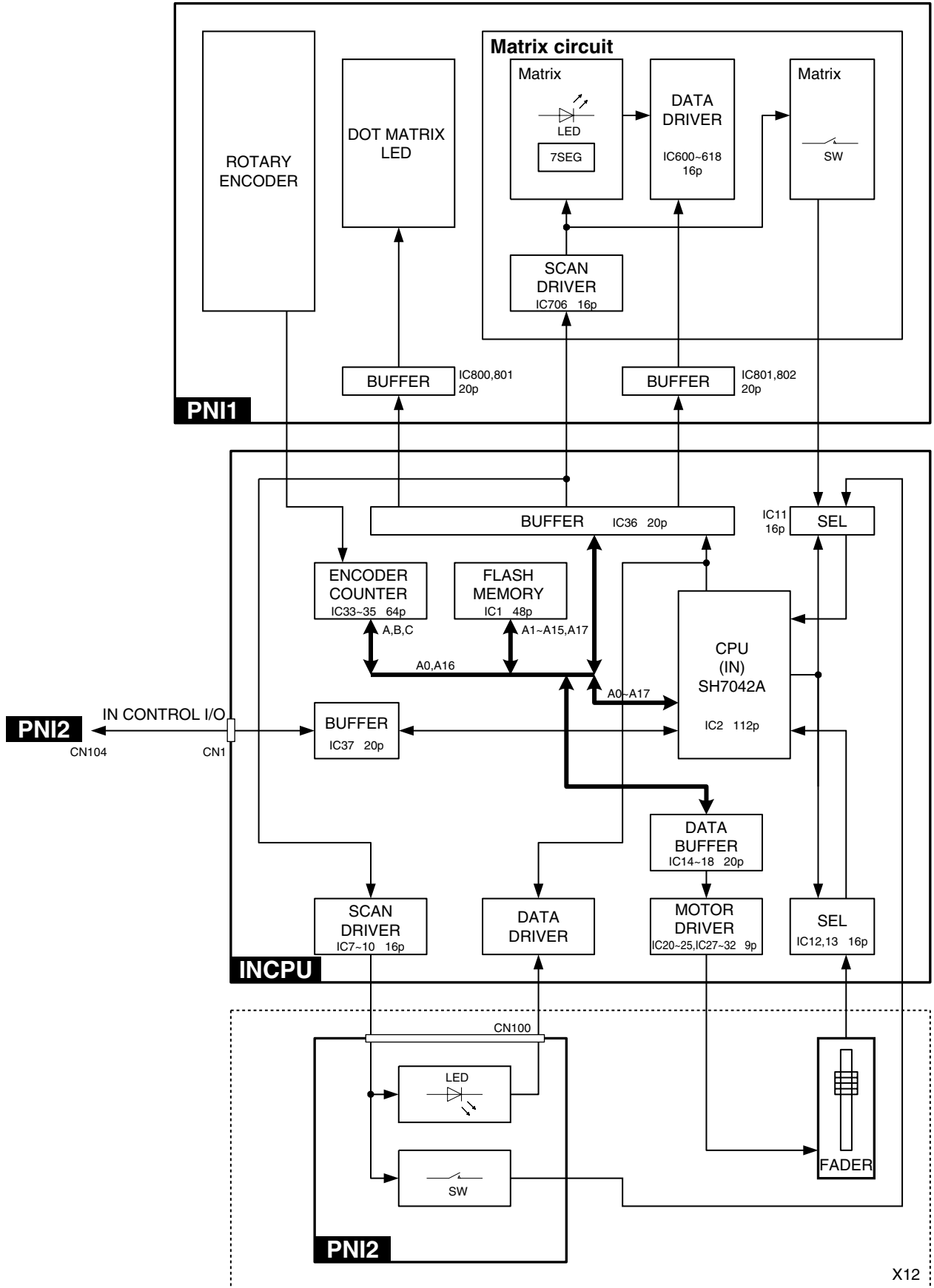
BOTTOM ASSY LEFT



BOTTOM ASSY CENTER

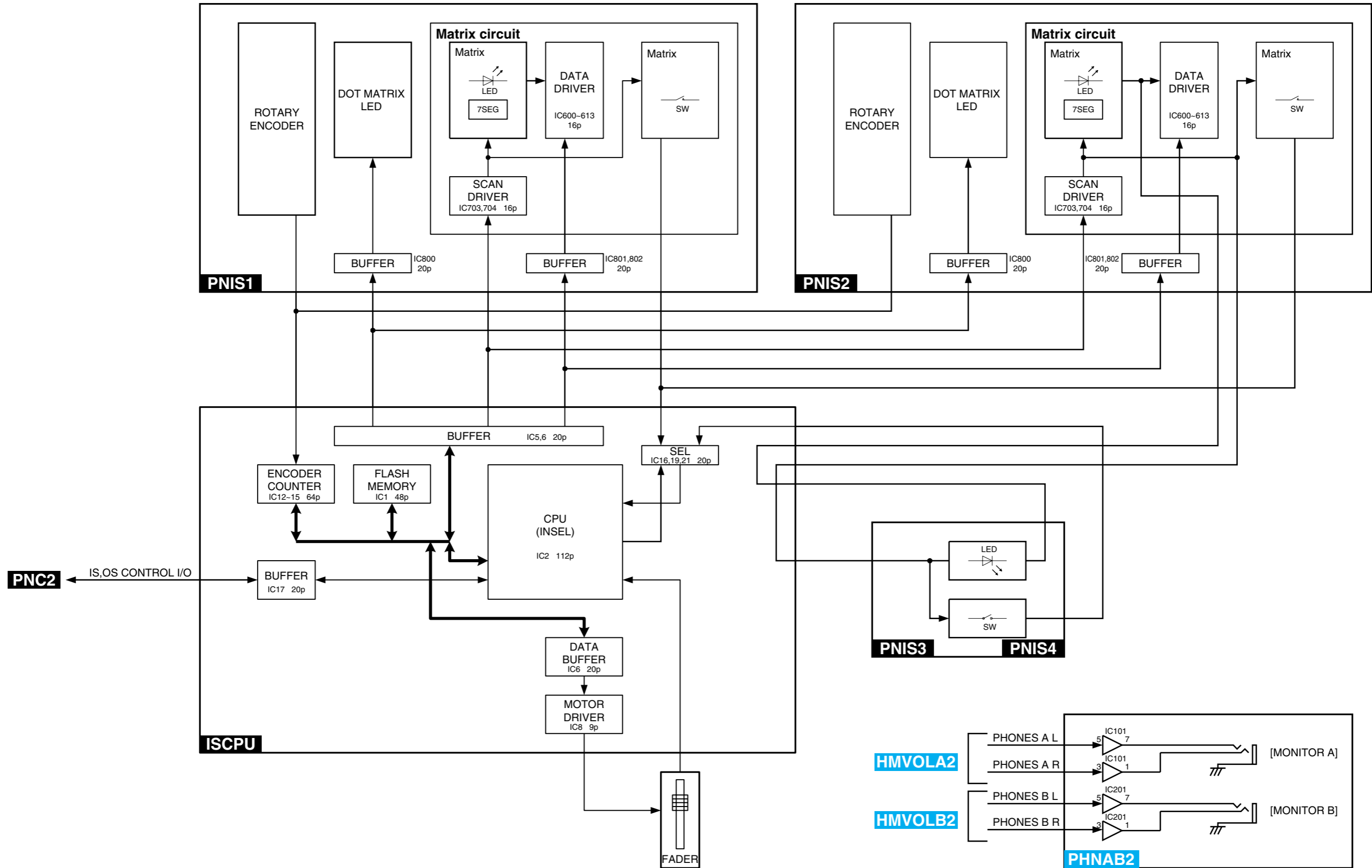


BOTTOM ASSY RIGHT



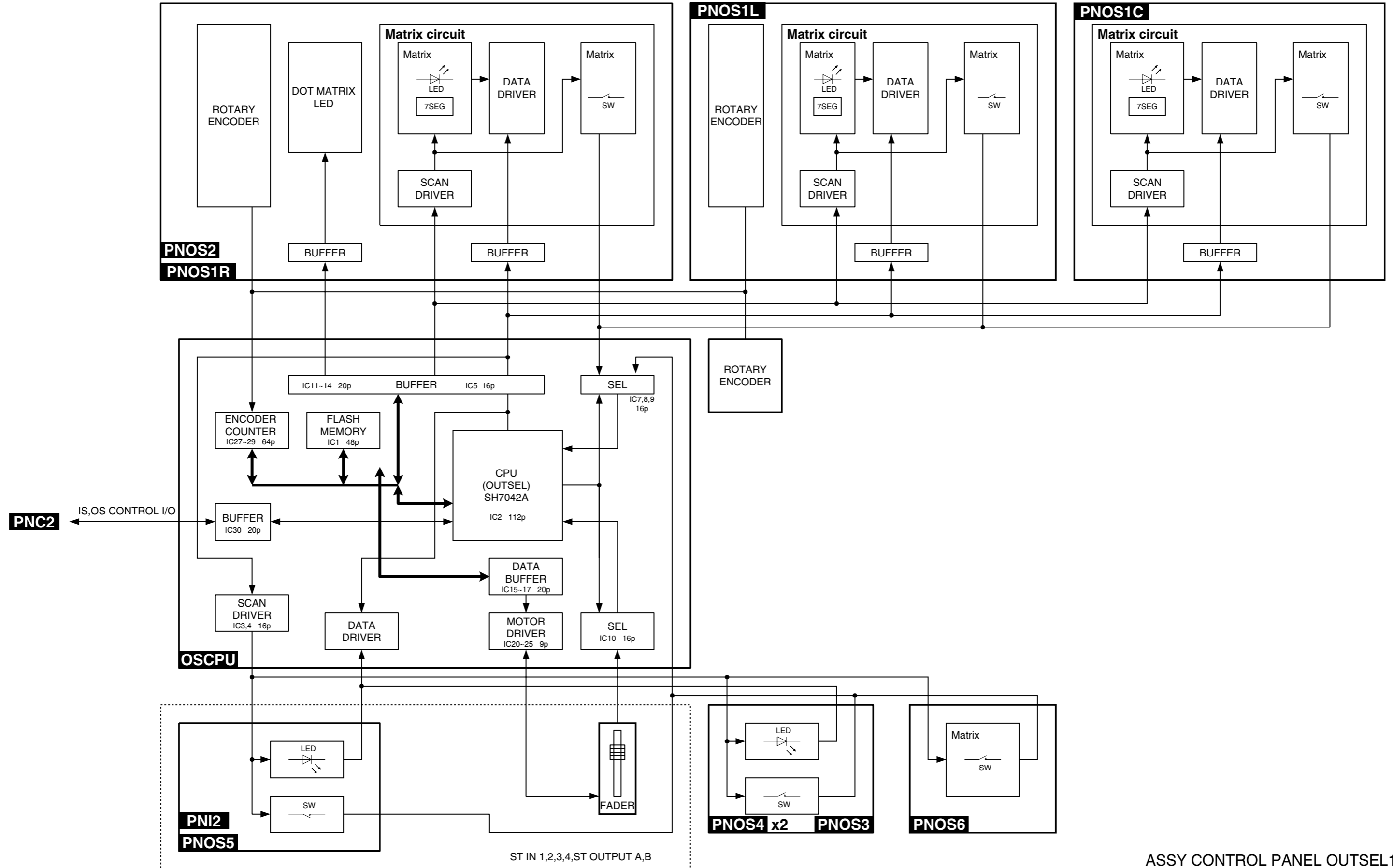
X12

ASSY CONTROL PANEL IN

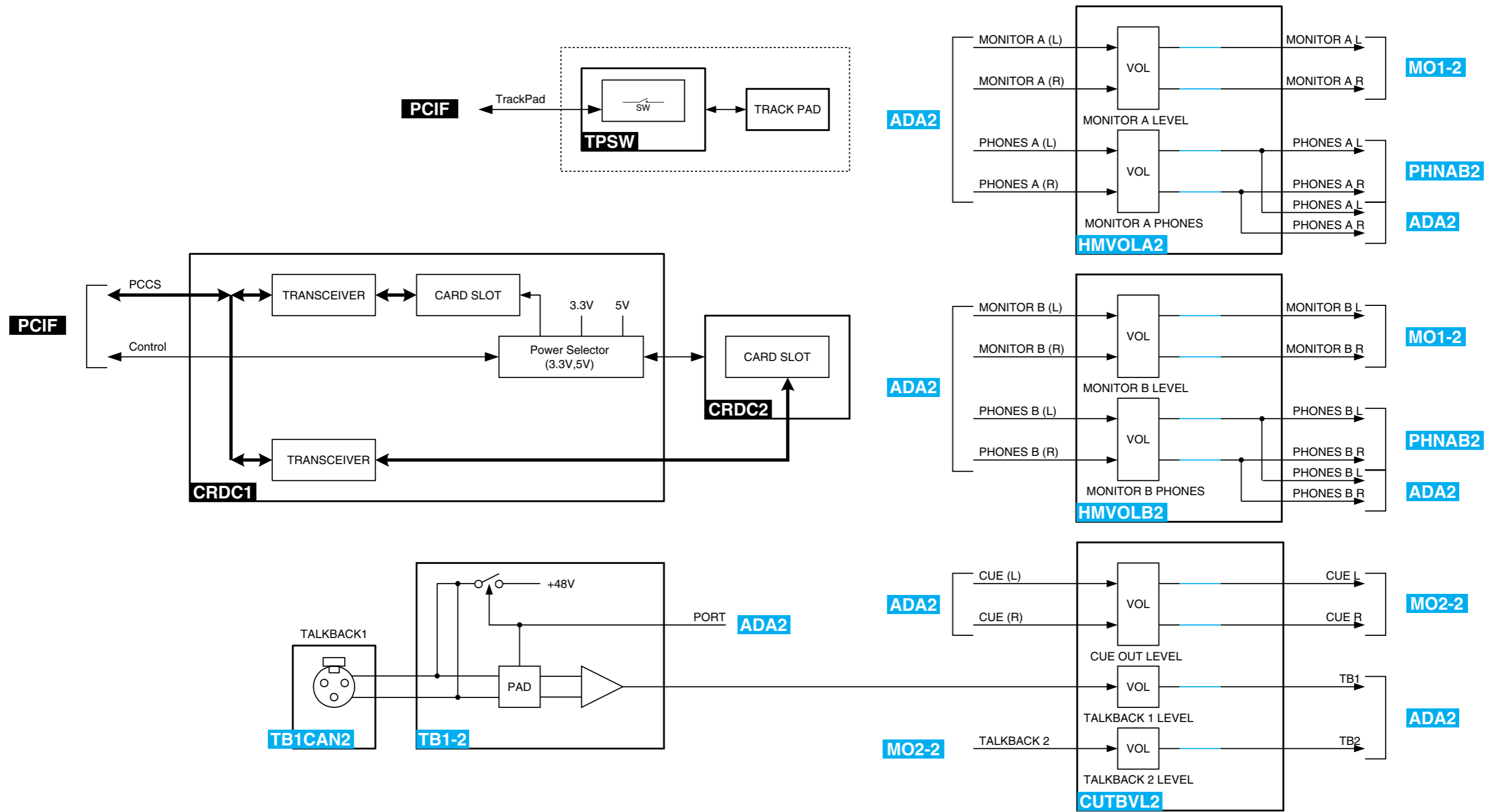


ASSY CONTROL PANEL INSEL

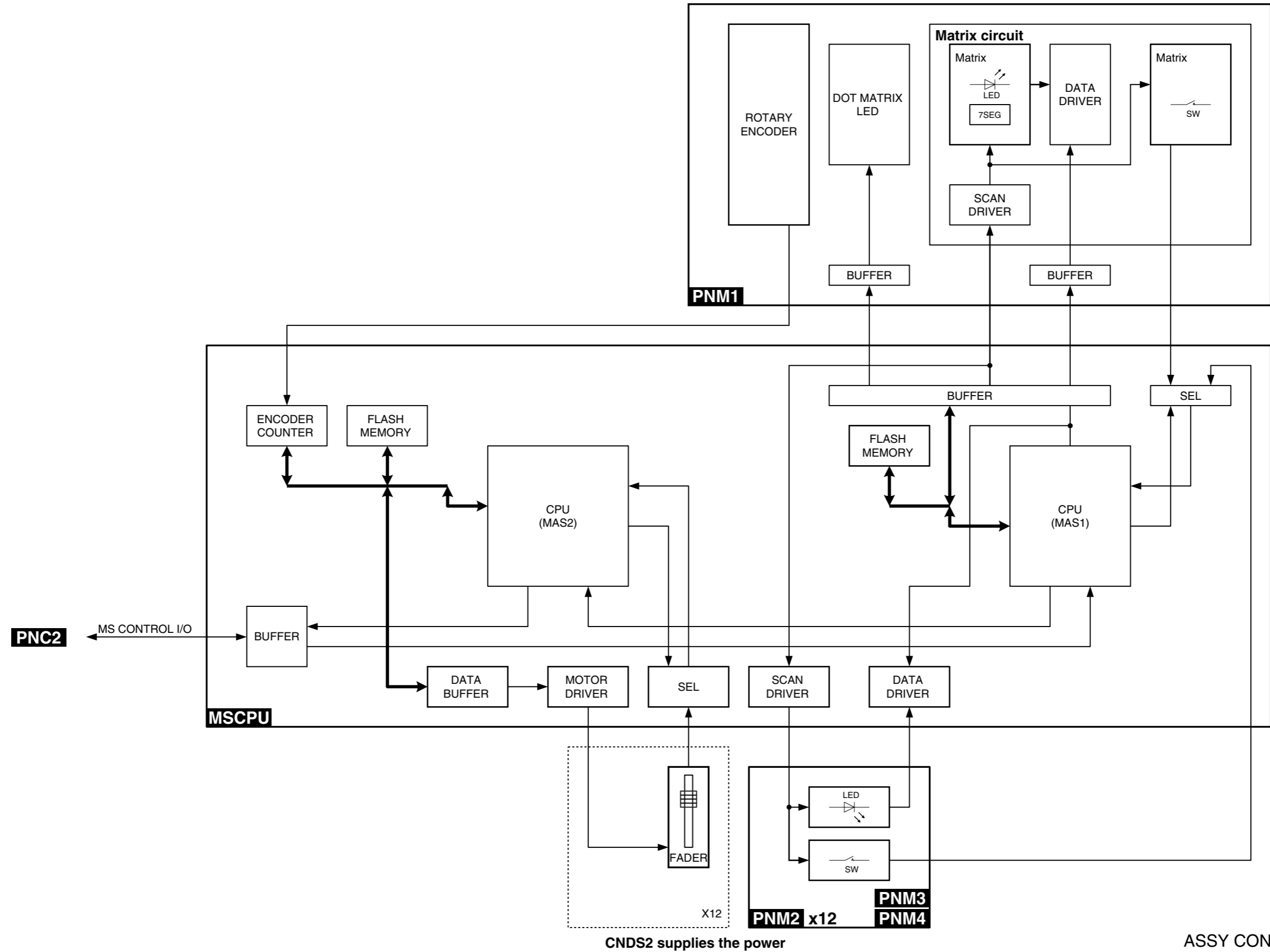
KEC-92540-7



ASSY CONTROL PANEL OUTSEL1

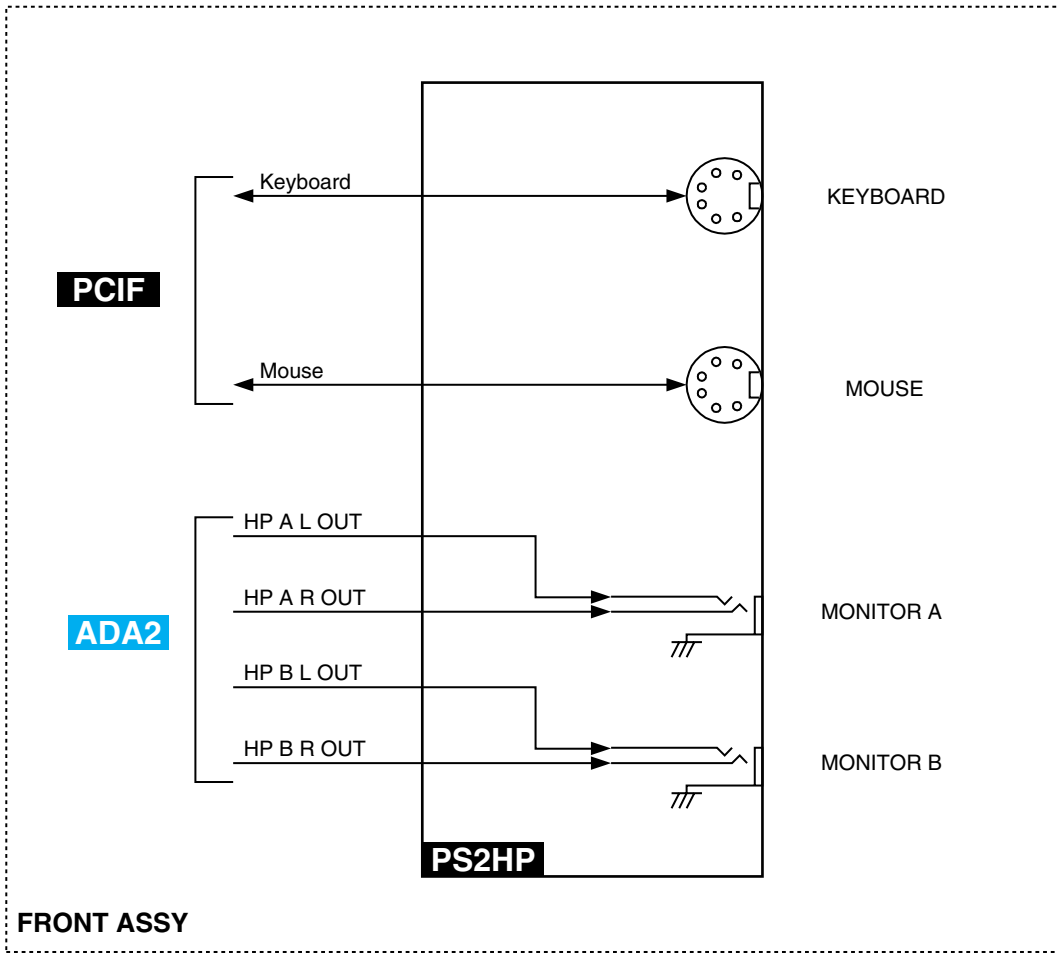


ASSY CONTROL PANEL OUTSEL2

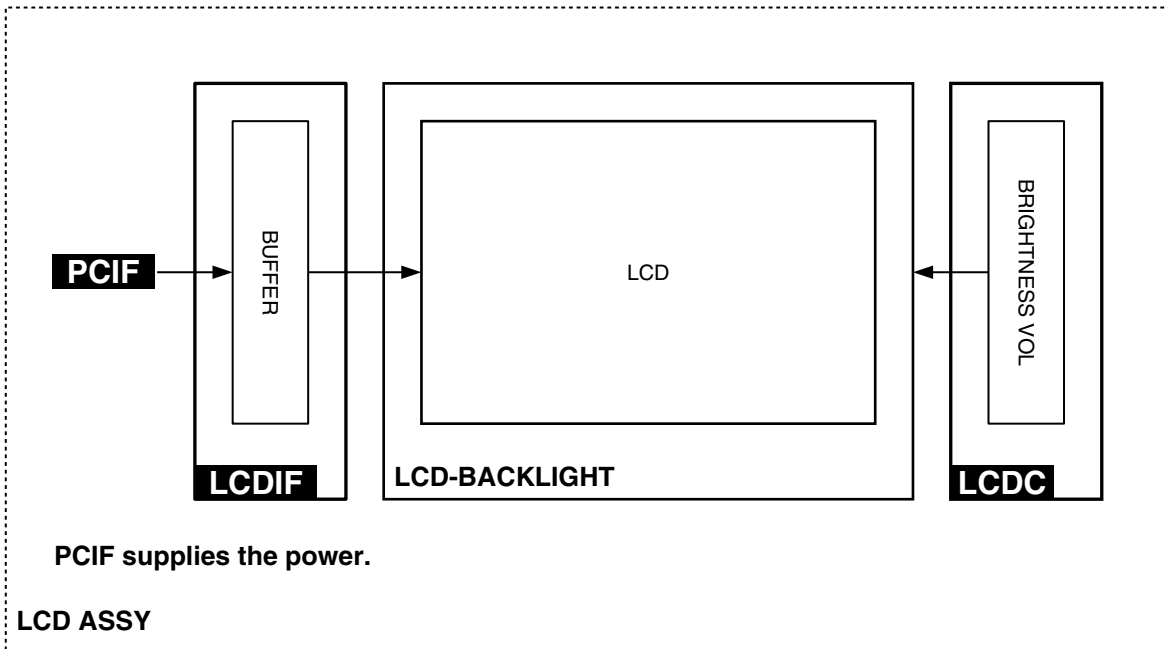


CNDS2 supplies the power

ASSY CONTROL PANEL MASTER



FRONT ASSY

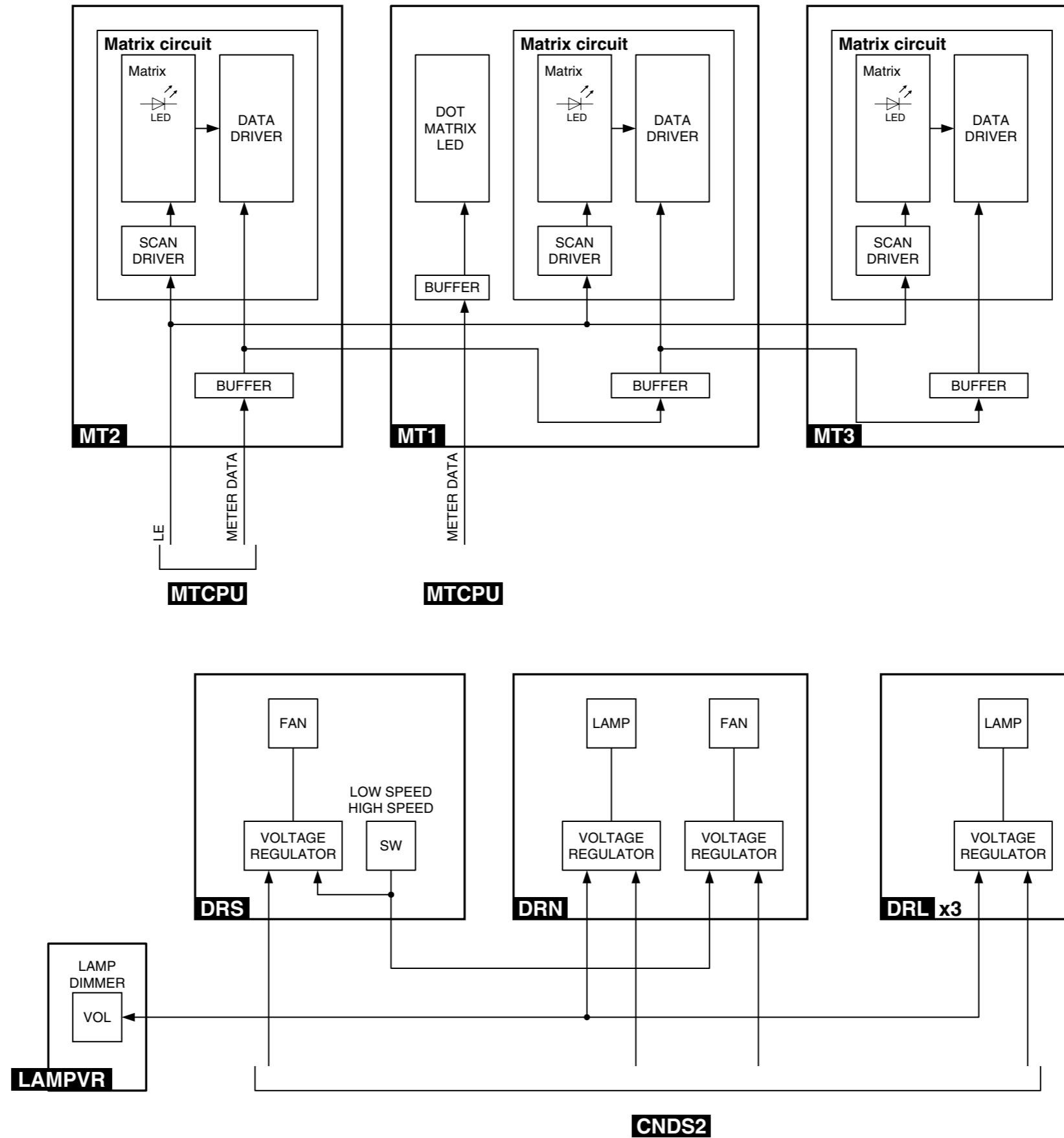


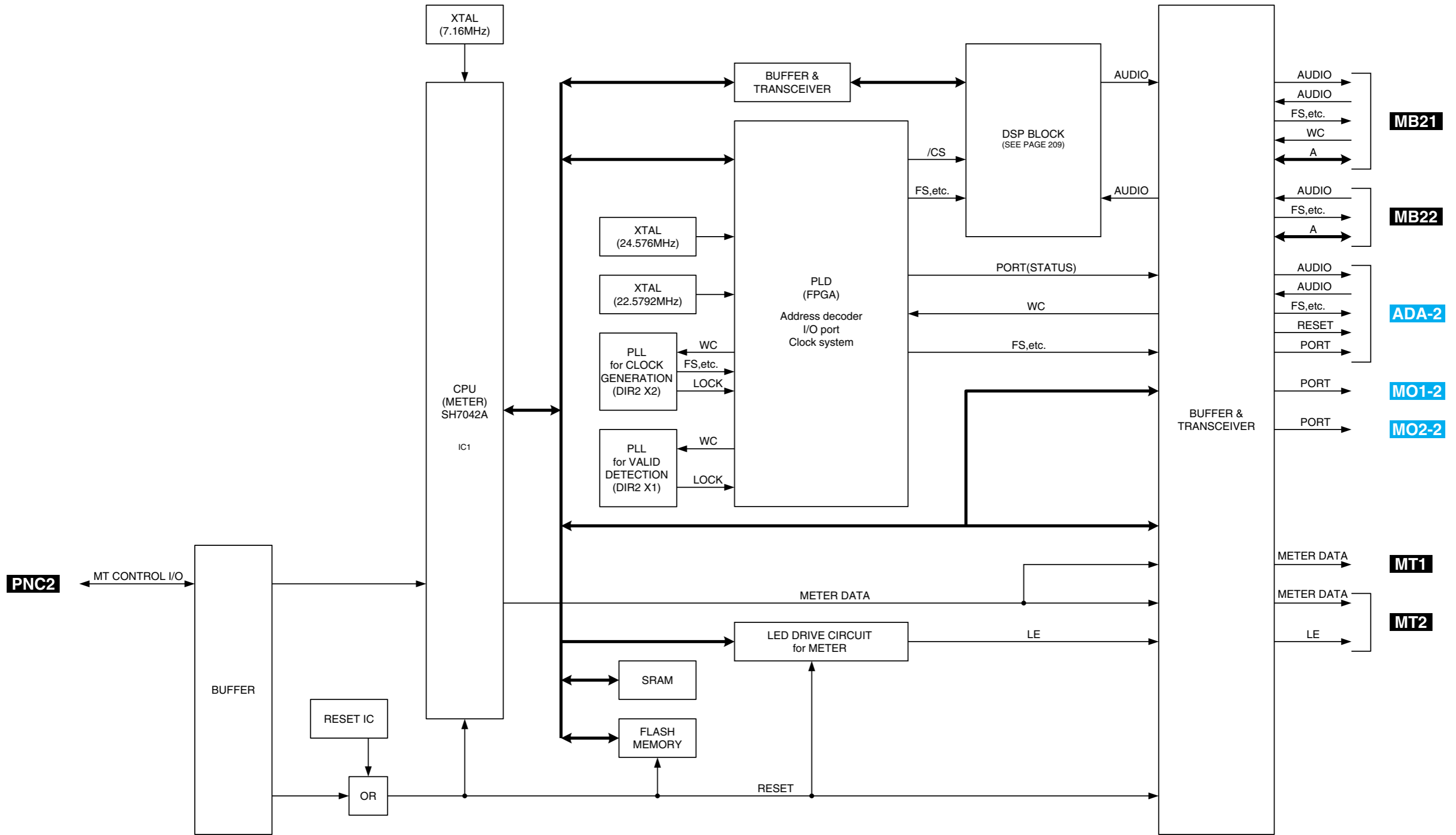
PCIF supplies the power.

LCD ASSY

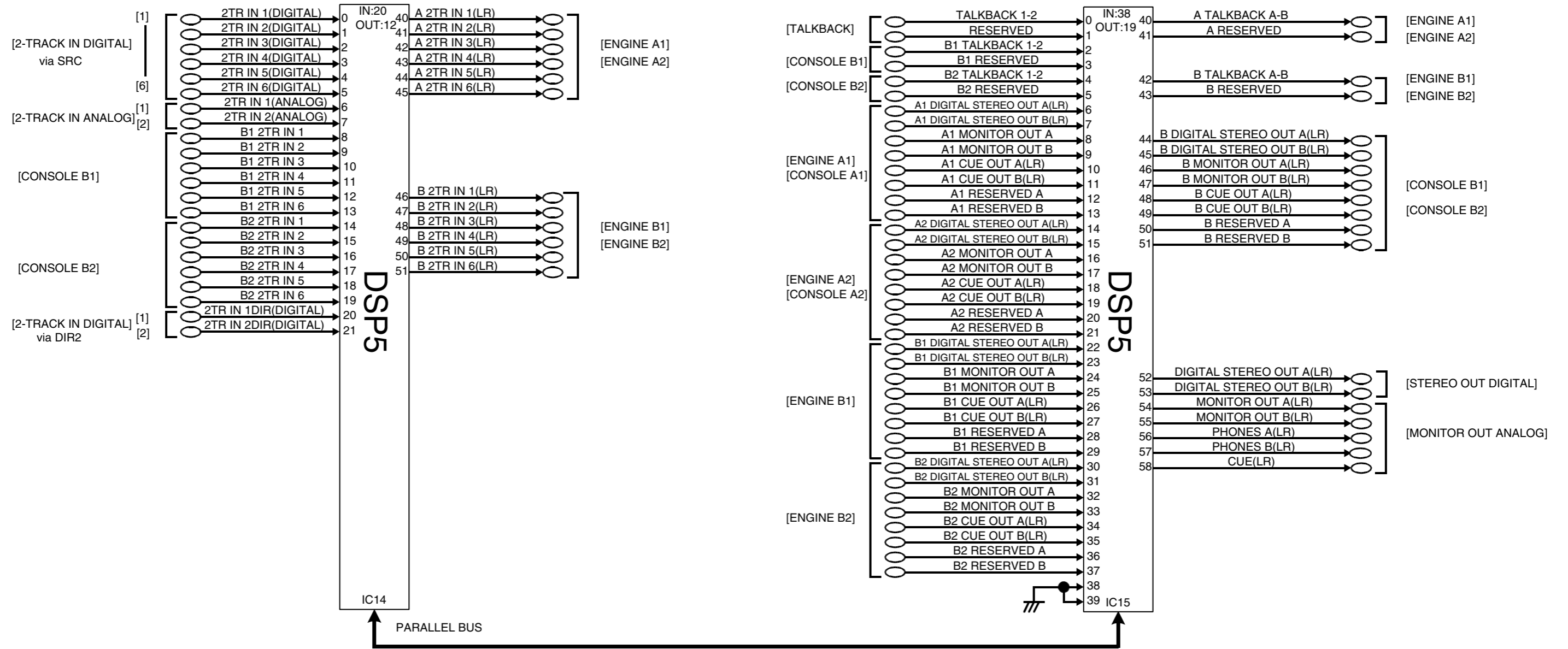
FRONT,LCD ASSY

KEC-92540-11 

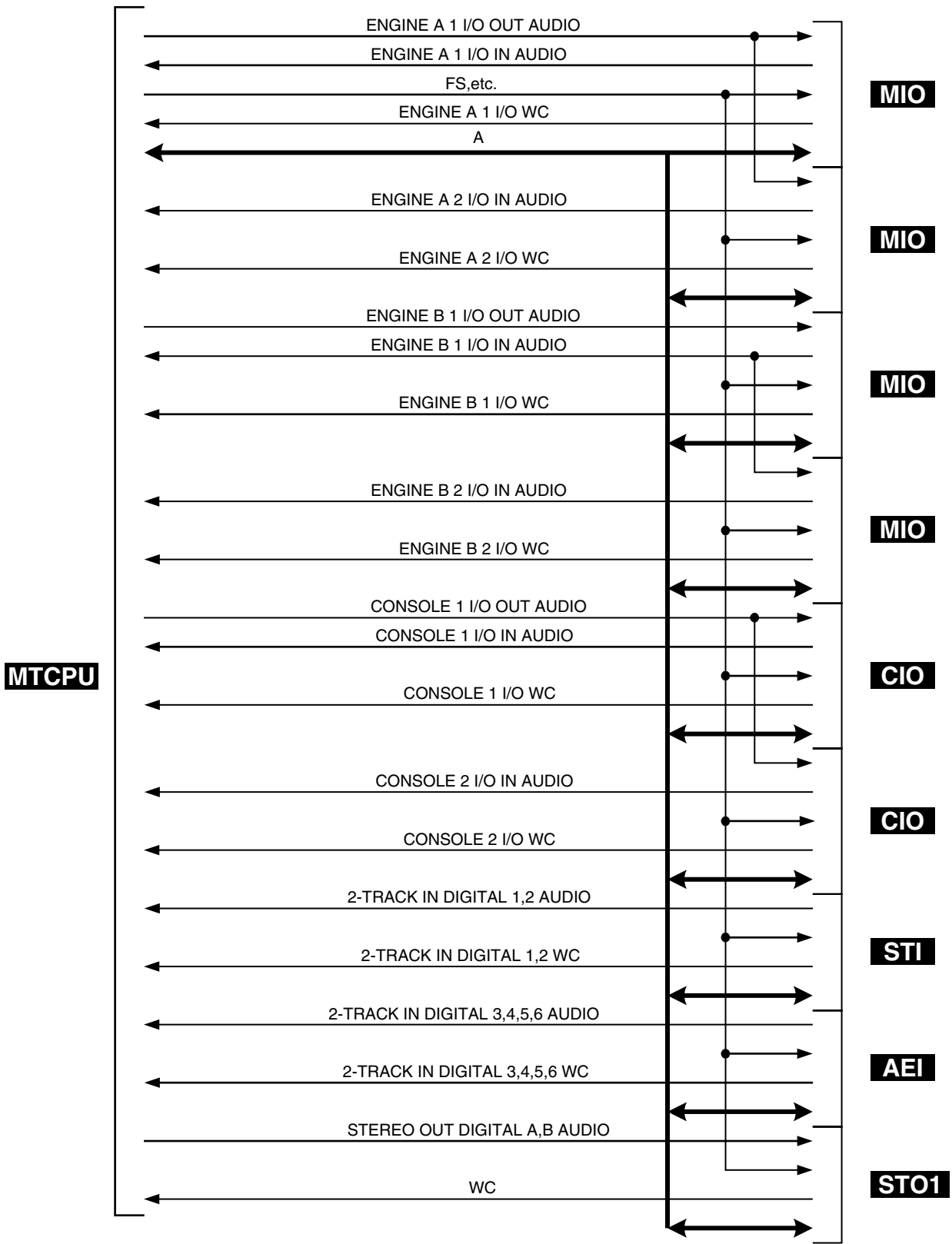




MTCPU (BOTTOM ASSY LEFT)



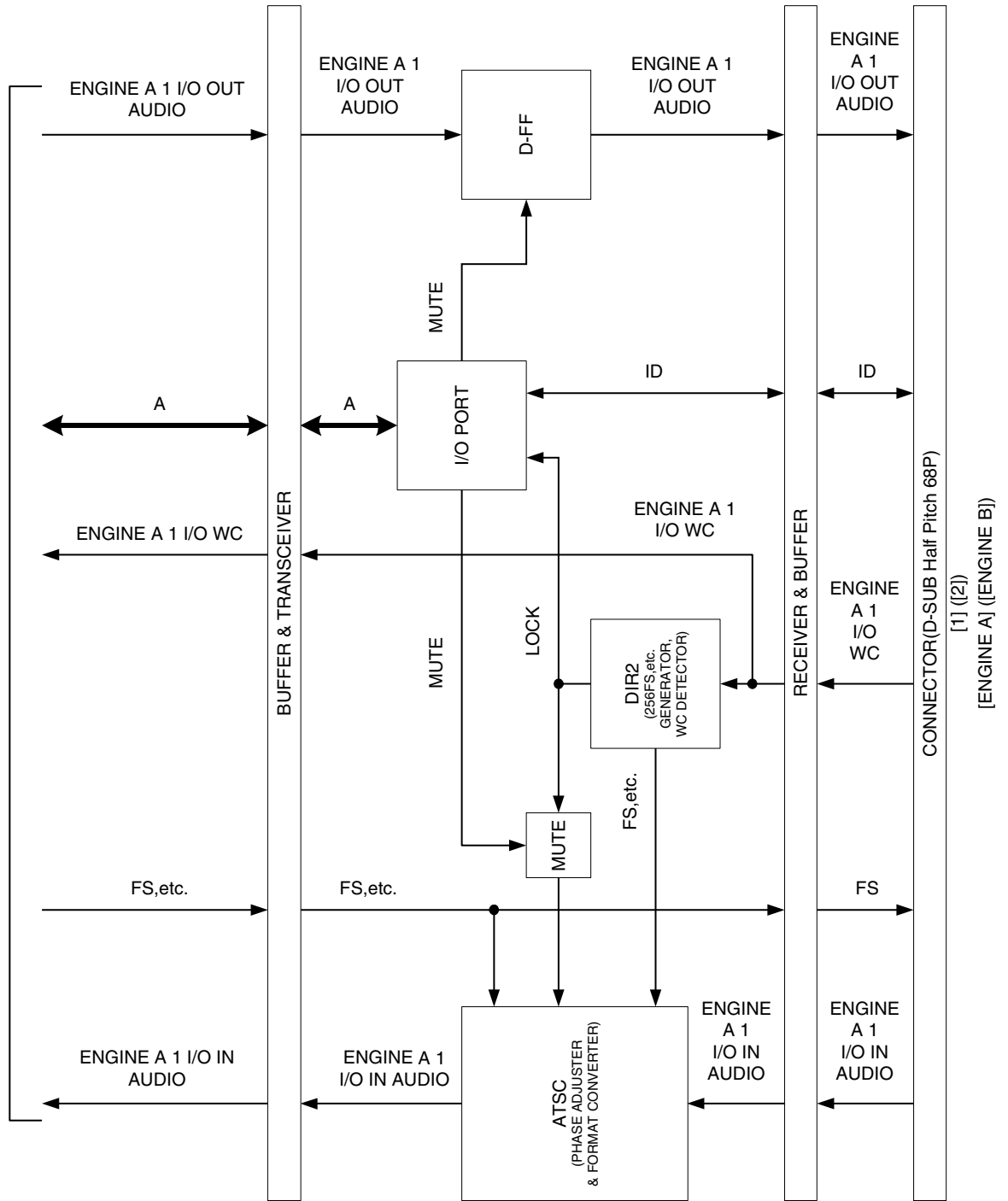
MTCPU-DSP (BOTTOM ASSY LEFT)



MB21 (BOTTOM ASSY LEFT)

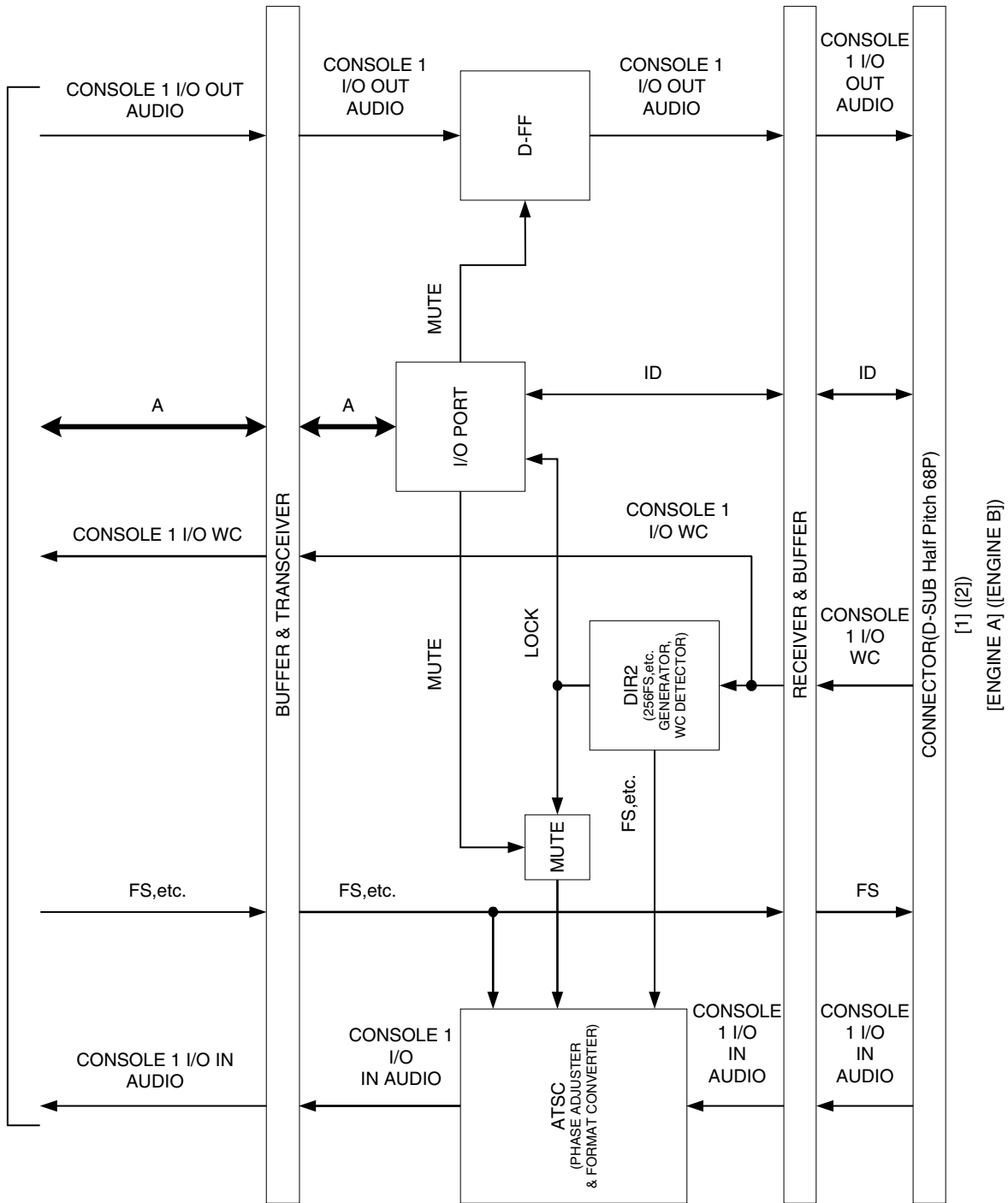
KEC-92540-15

MB21



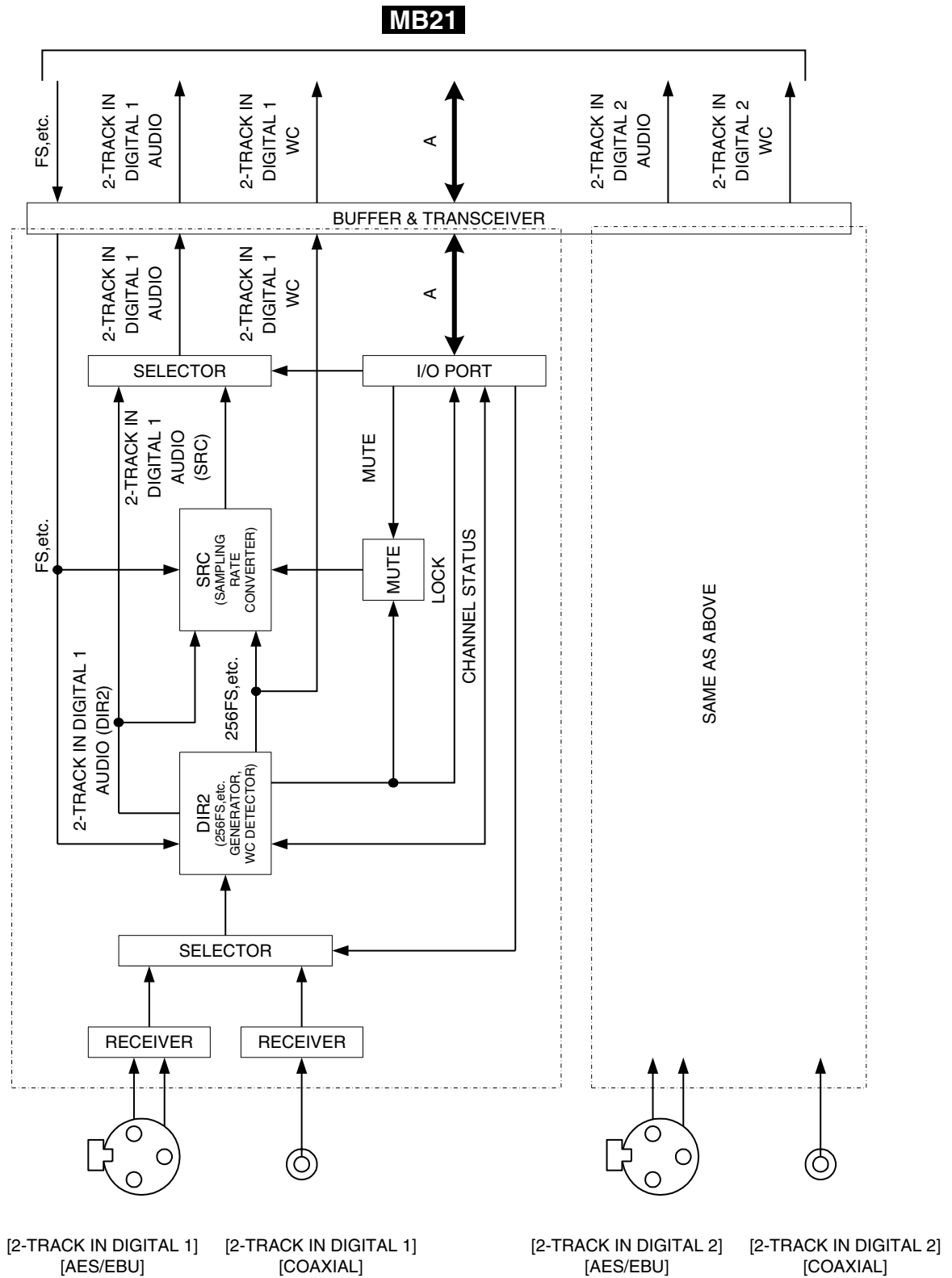
MIO (BOTTOM ASSY LEFT)

MB21

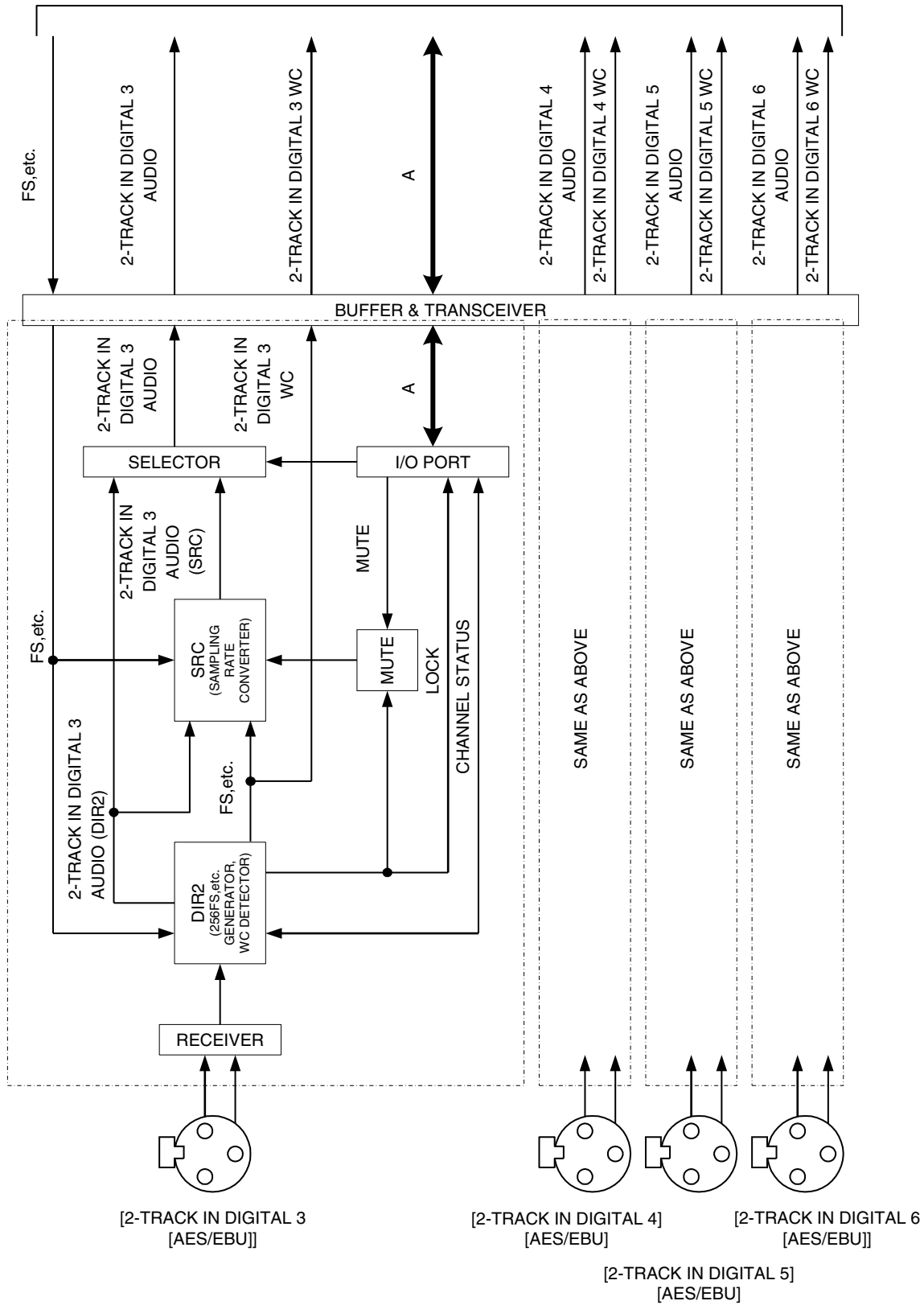


CIO (BOTTOM ASSY LEFT)

KEC-92540-17



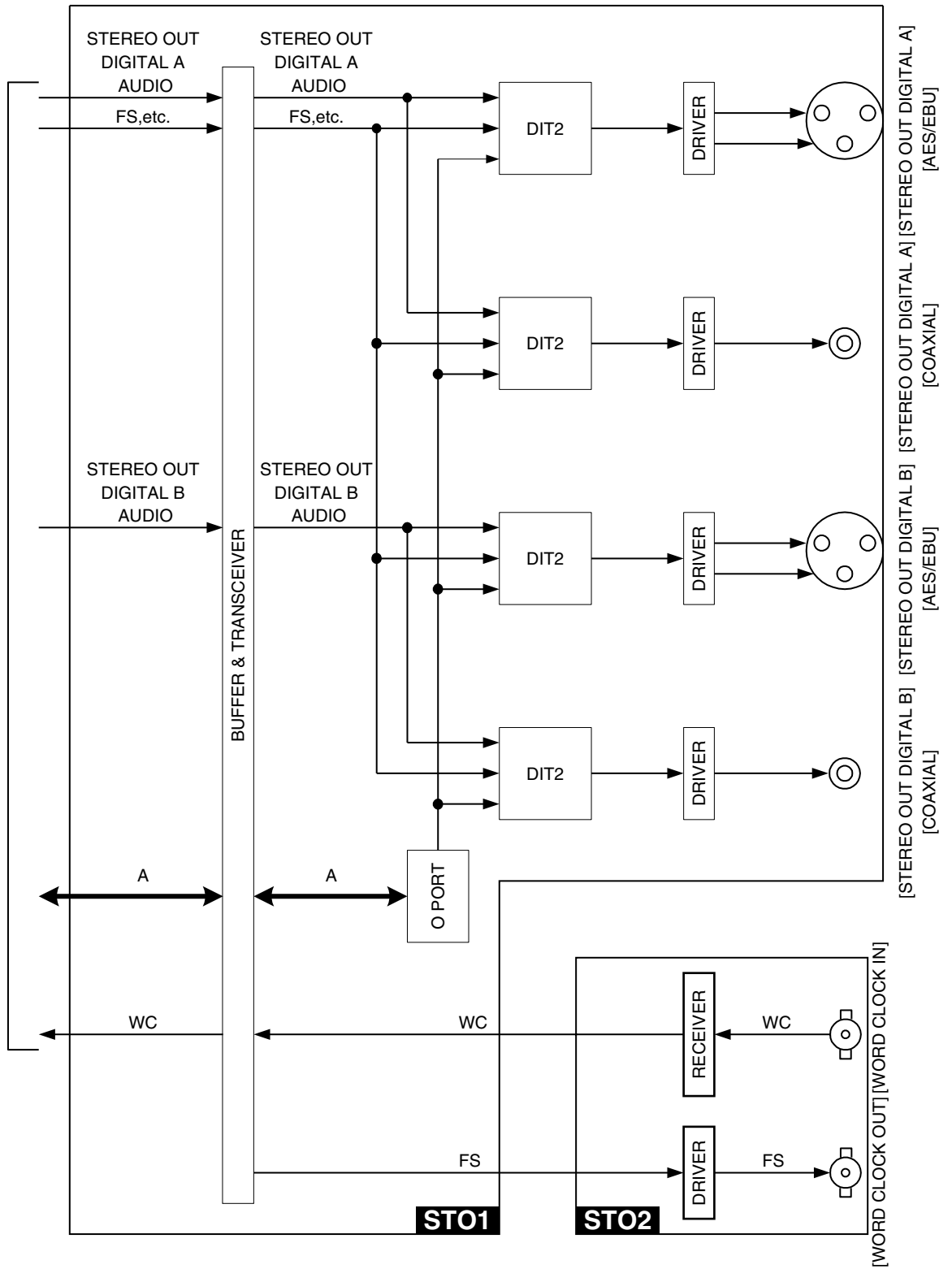
MB21



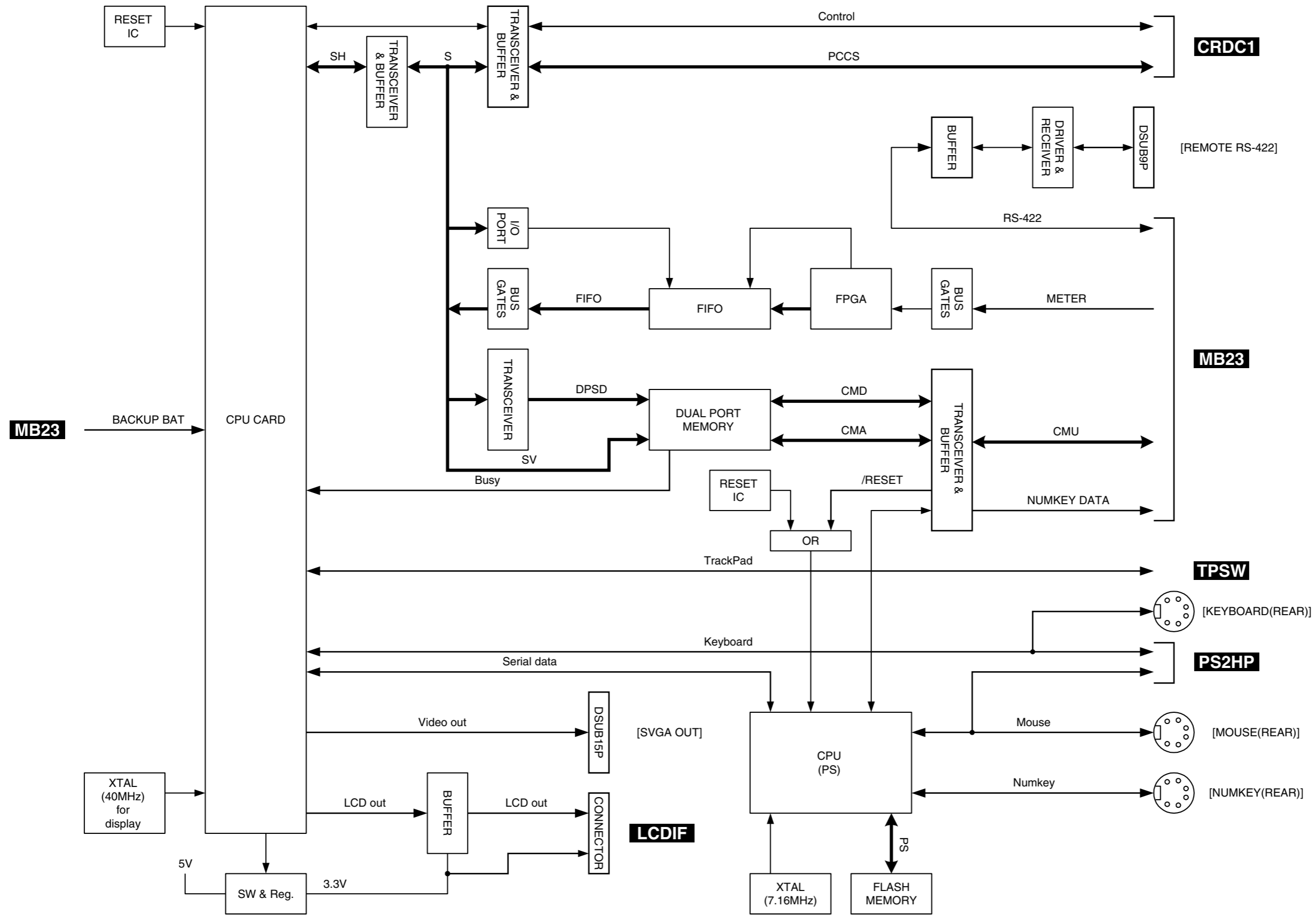
AEI (BOTTOM ASSY LEFT)

KEC-92540-19

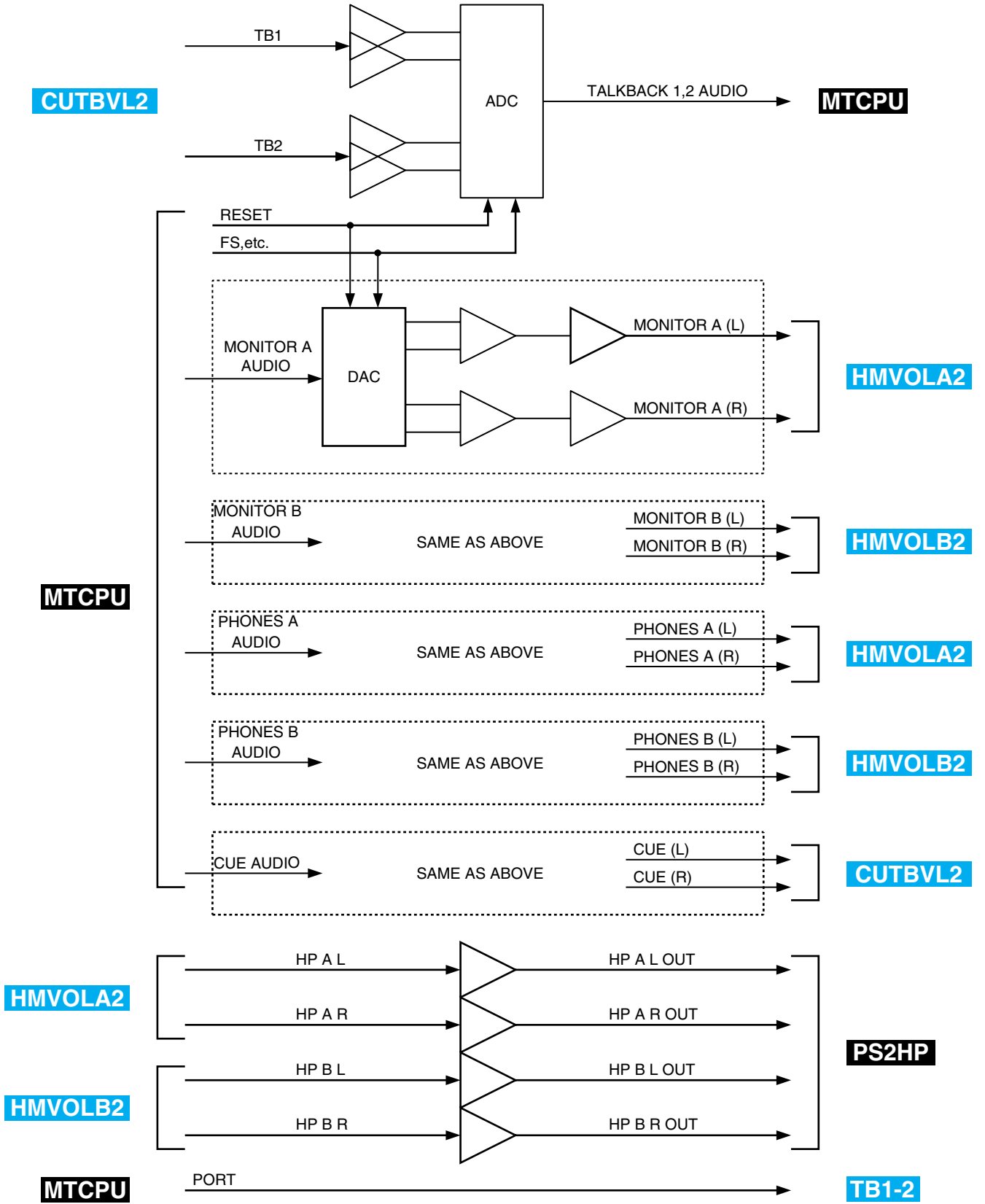
MB21



STO1,2 (BOTTOM ASSY LEFT)



PCIF (BOTTOM ASSY CENTER)

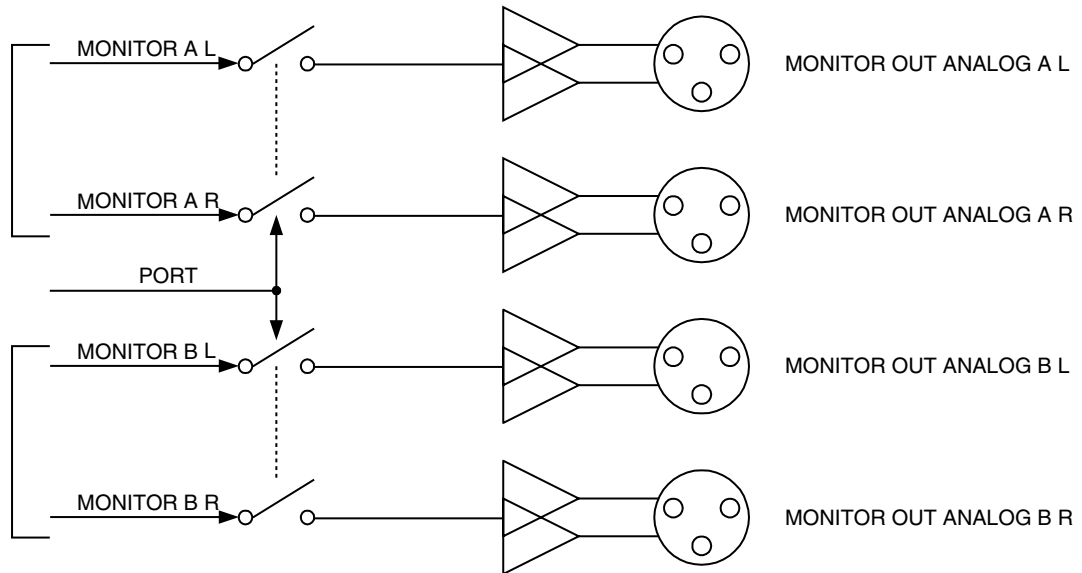


ADA2 (BOTTOM ASSY CENTER)

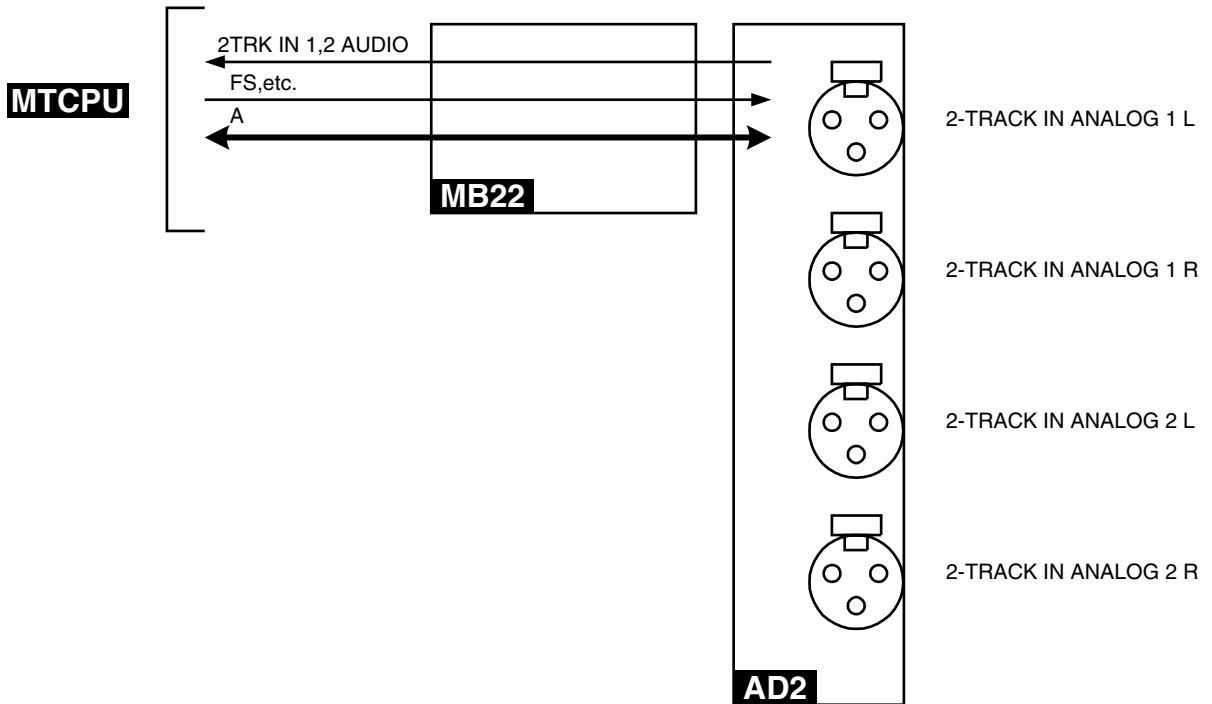
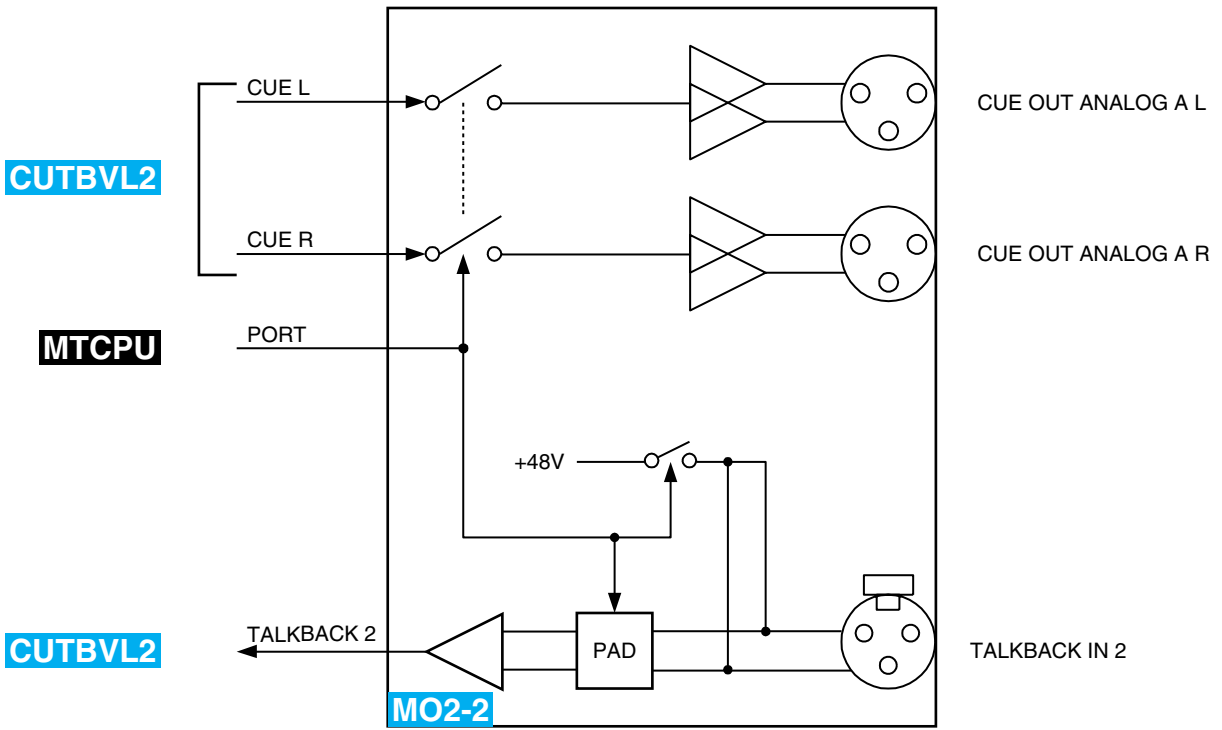
HMVOLA2

MTCPU

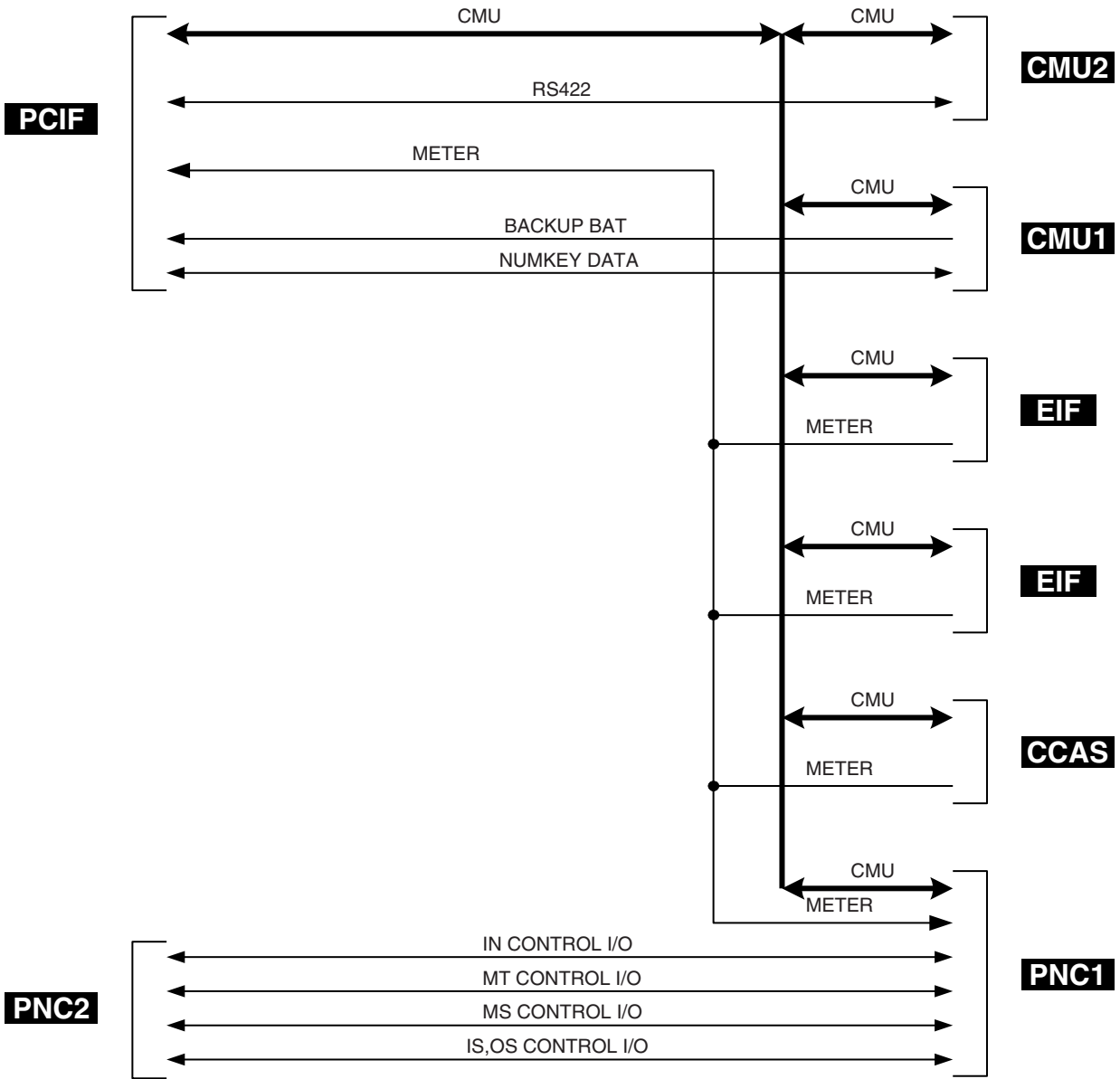
HMVOLB2



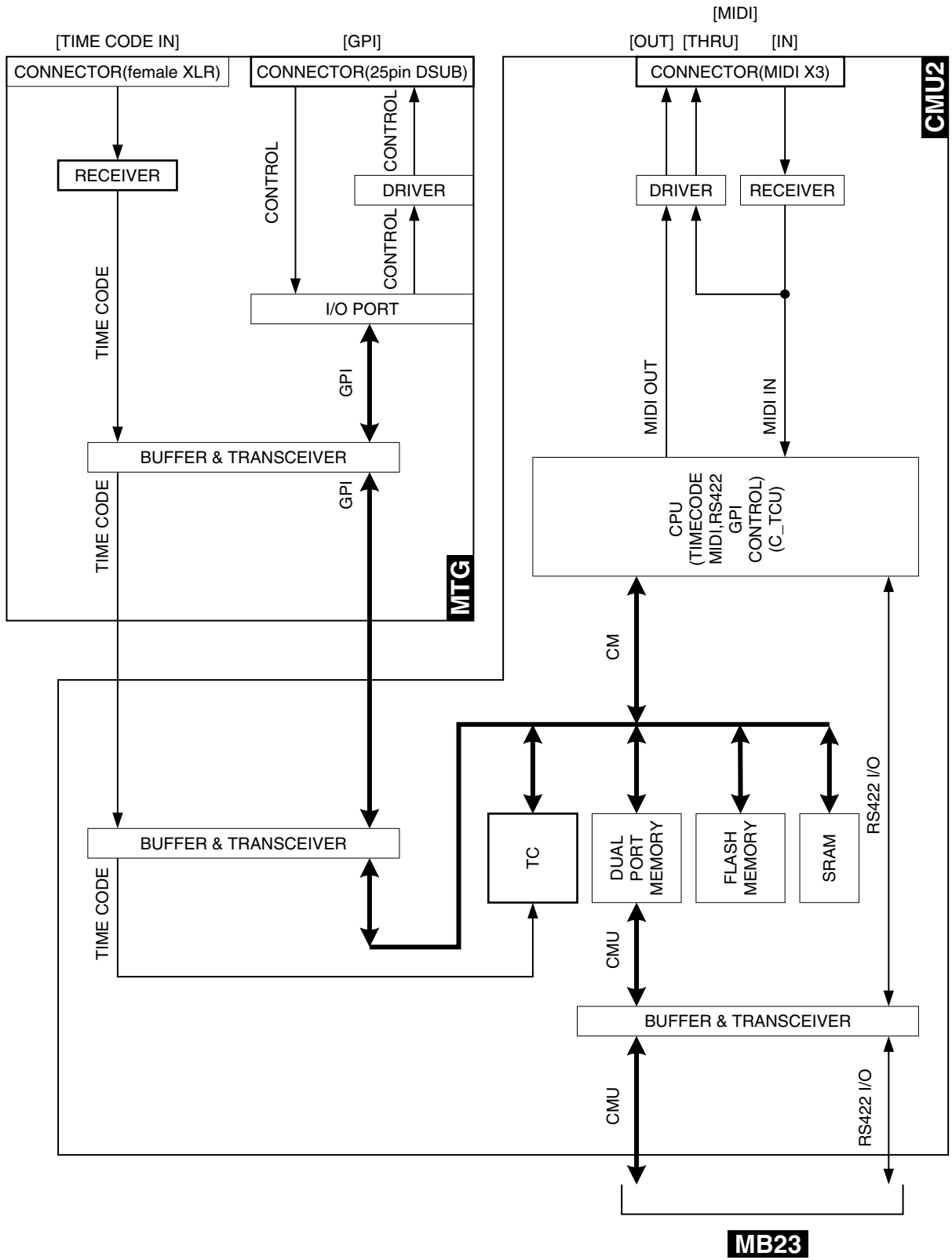
MO1-2 (BOTTOM ASSY CENTER)



MO2-2, MB22 (BOTTOM ASSY CENTER)

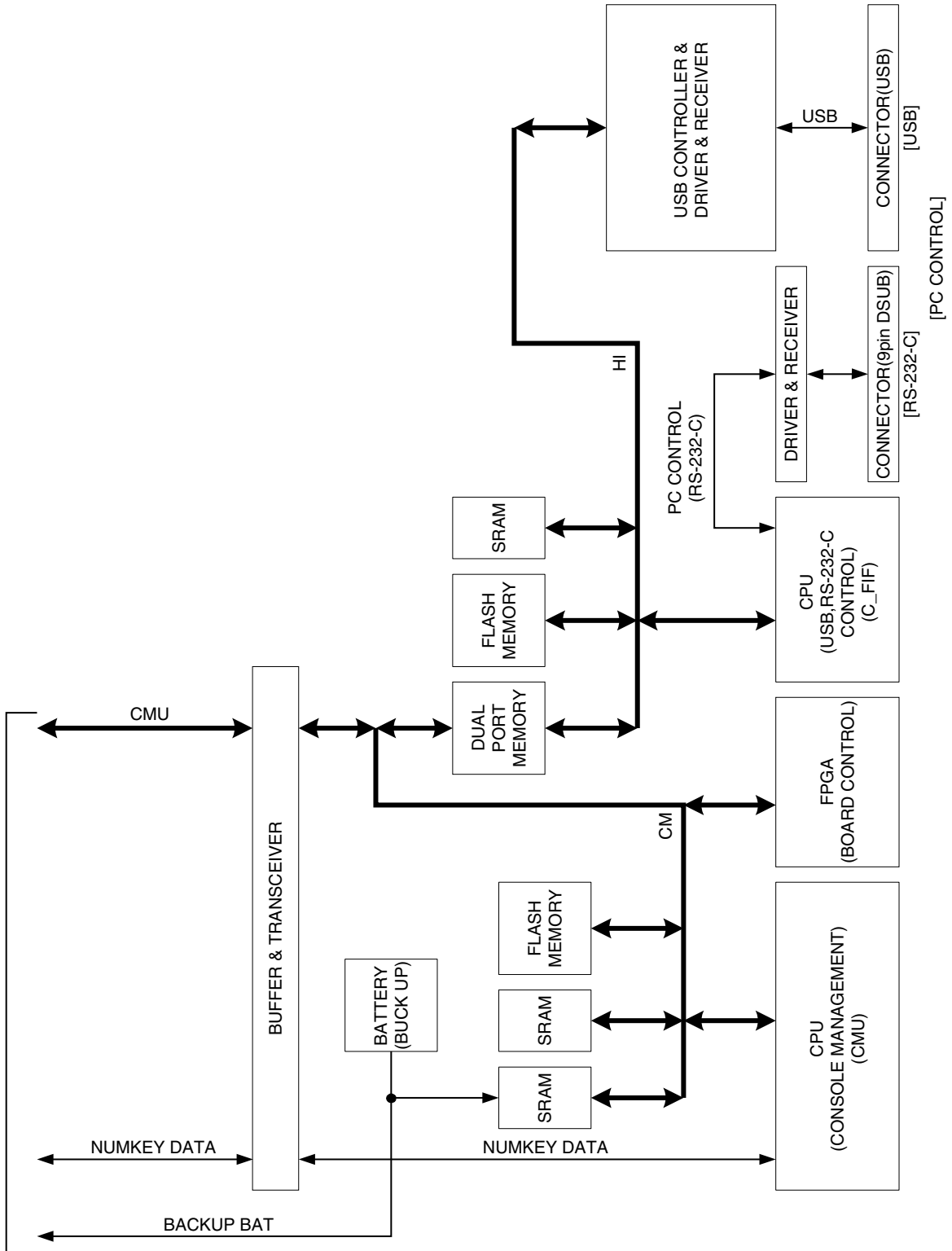


MB23 (BOTTOM ASSY RIGHT)

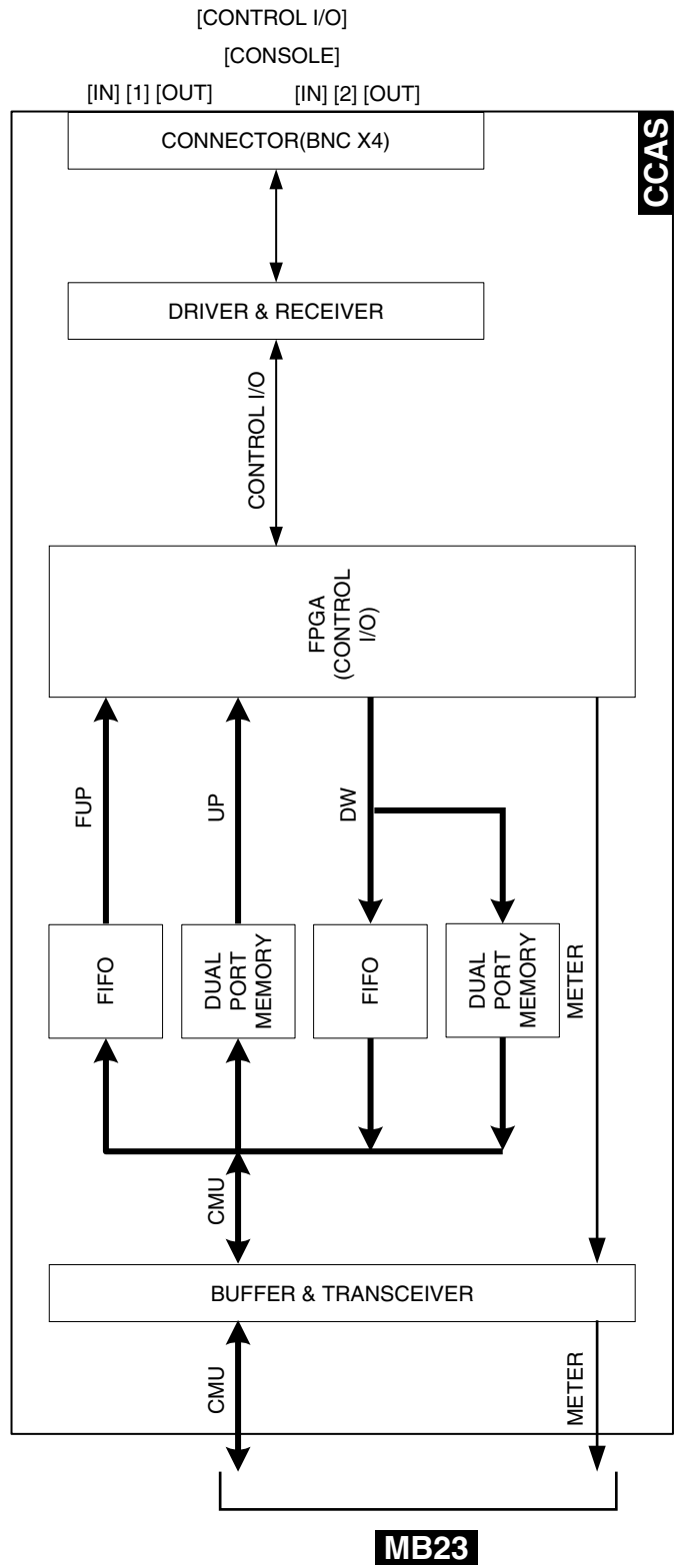
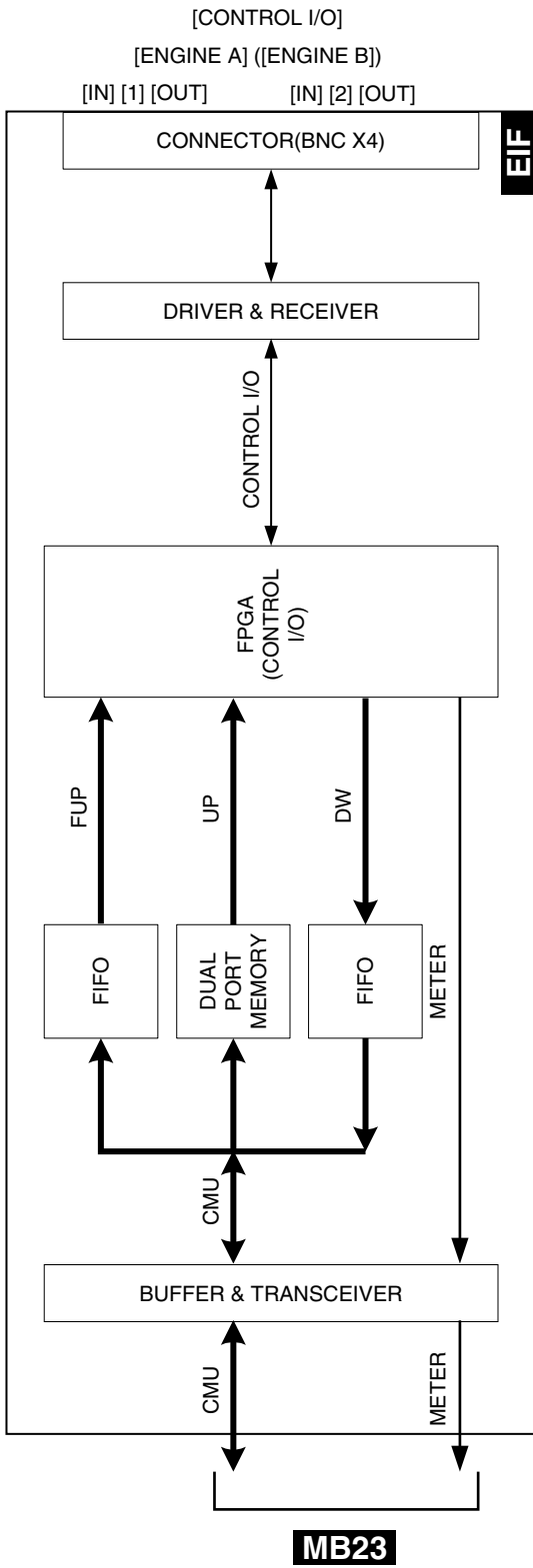


CMU2, MTG (BOTTOM ASSY RIGHT)

MB23

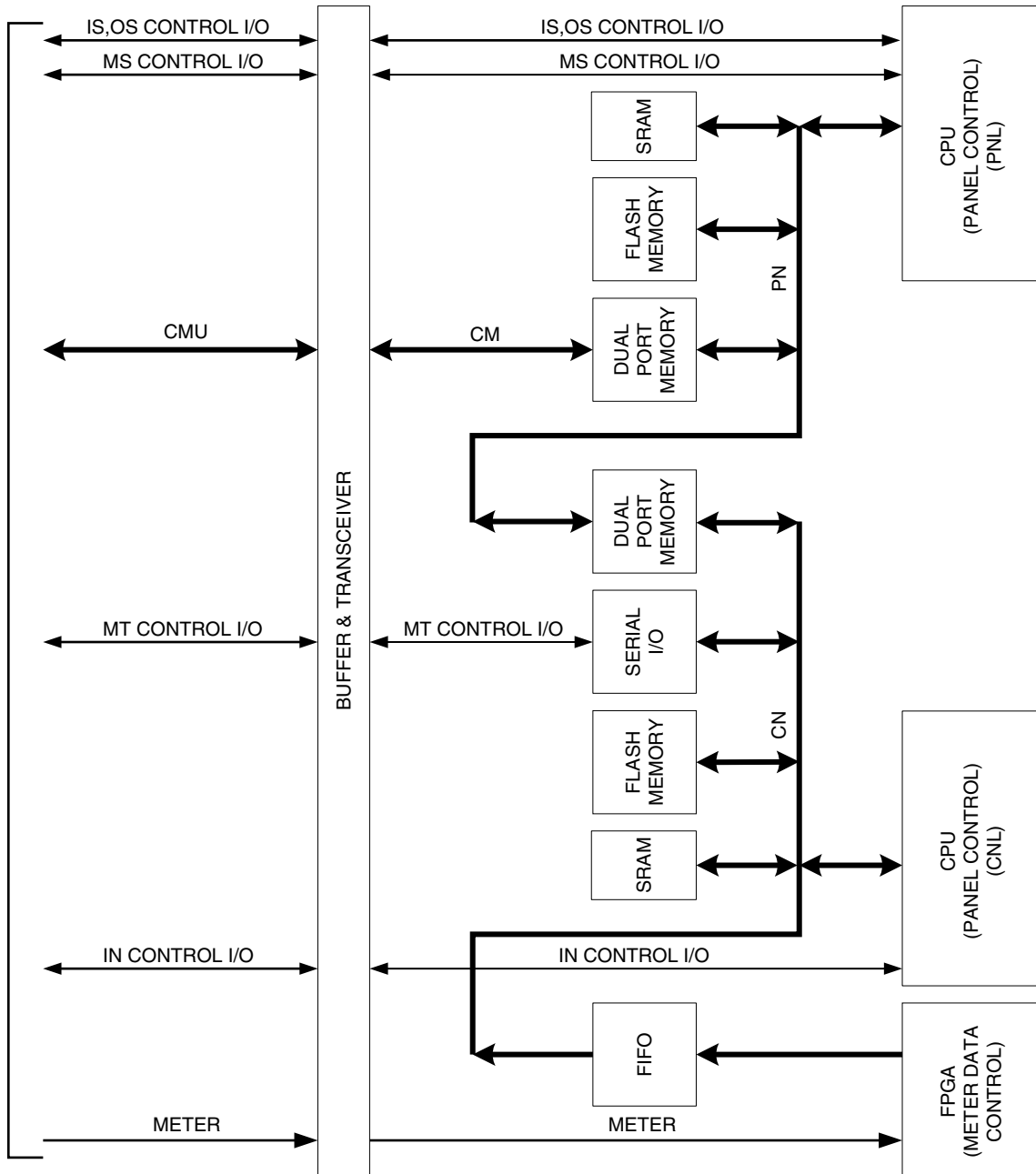


CMU1 (BOTTOM ASSY RIGHT)

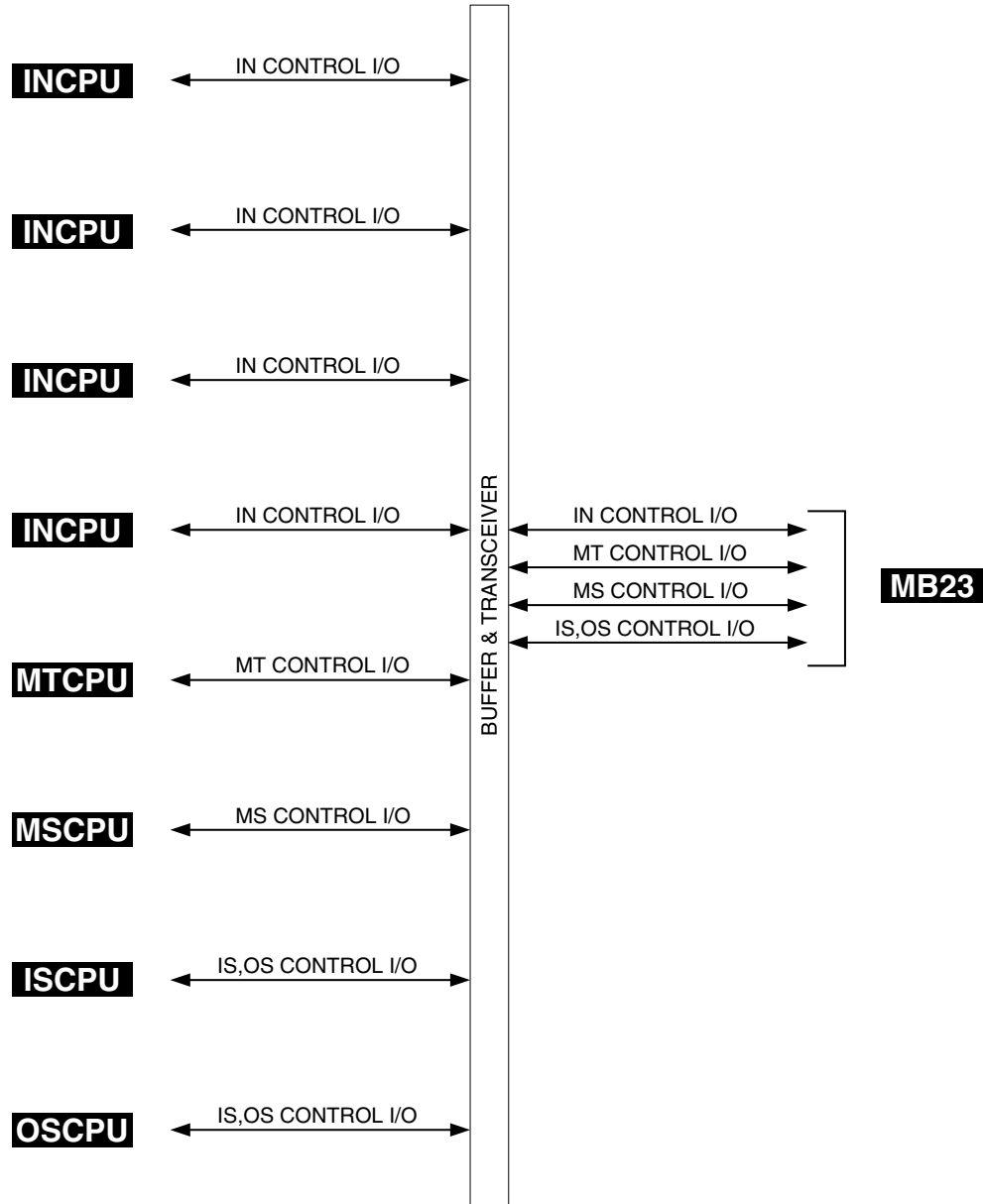


EIF, CCAS (BOTTOM ASSY RIGHT)

MB23



PNC1 (BOTTOM ASSY RIGHT)



PNC2 (BOTTOM ASSY RIGHT)

CONTROL SURFACE

CSLD

PARTS LIST


■ CONTENTS



OVERALL ASSEMBLY	2	CONTROL PANEL ASSEMBLY MASTER	28
BOTTOM ASSEMBLY	6	PCMCIA ASSEMBLY	31
PC ASSEMBLY	19	CONTROL PANEL ASSEMBLY OUT SEL	32
FRONT ASSEMBLY	20	CONTROL PANEL ASSEMBLY IN SEL	37
SIDE PANEL (L,R) ASSEMBLY	21	CONTROL PANEL ASSEMBLY IN	40
METER ASSEMBLY	22	ELECTRICAL PARTS	42-103
LCD ASSEMBLY	26		

Notes : DESTINATION ABBREVIATIONS

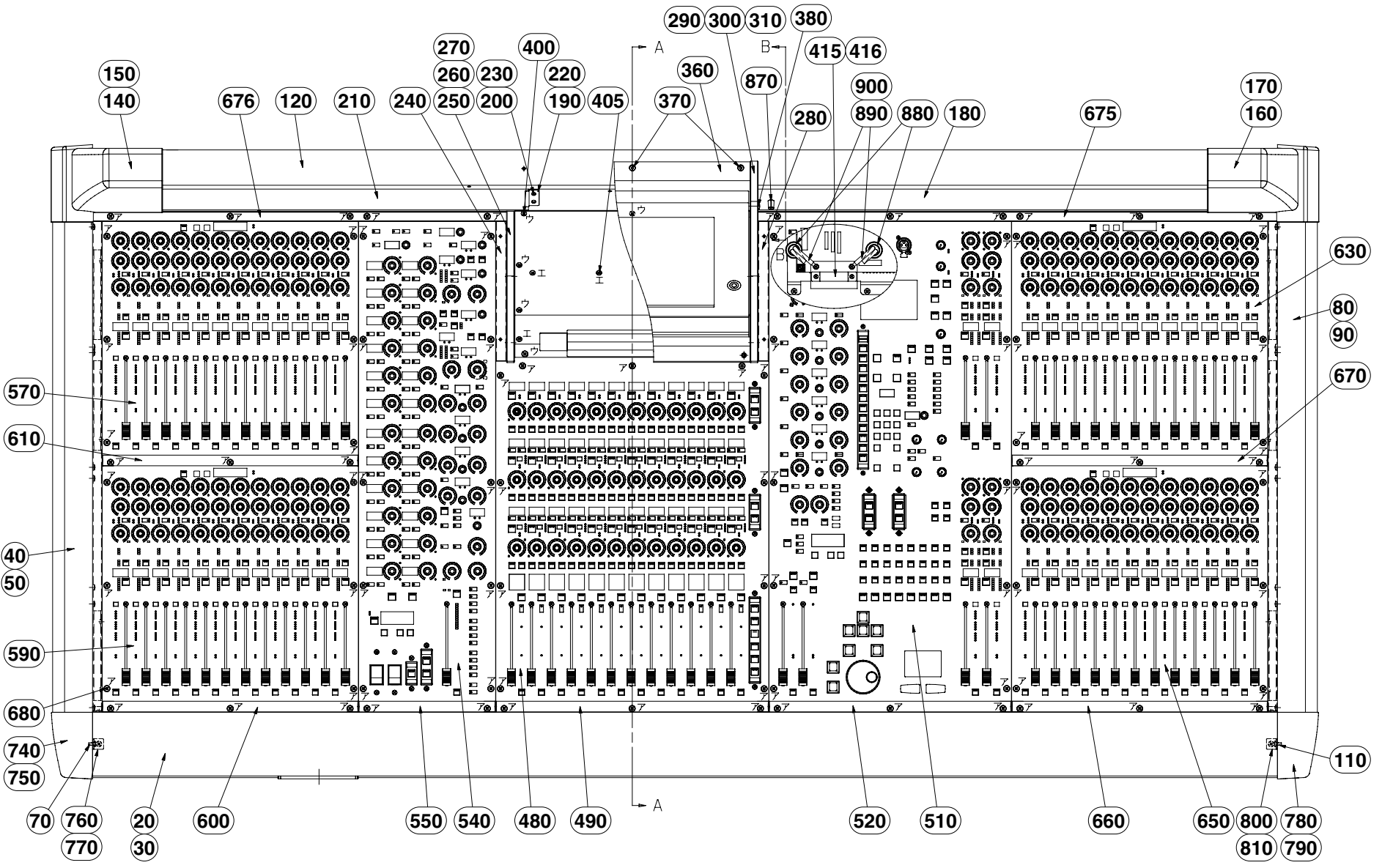
A: Australian model	M: South African model
B: British model	O: Chinese model
C: Canadian model	Q: South-east Asia model
D: German model	T: Taiwan model
E: European model	U: U.S.A. model
F: French model	V: General export model (110 V)
H: North European model	W: General export model (220 V)
I: Indonesian 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 in “QTY” show quantities for each unit.
- The parts with “- -” in “PART NO.” are not available as spare parts.
- The mark “}” in the remarks column indicates that 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		CS1D		
	--	Overall Assembly		(V474760)		
10	--	Bottom Assembly		(V468730)		
20	--	Front Assembly		(V473320)		
30	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		34	01
40	--	Side Panel L Assembly		(V473340)		
50	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		10	01
70	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL			01
80	--	Side Panel R Assembly		(V473720)		
90	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		10	01
110	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL			01
120	--	Meter Assembly		(V473370)		
125	VV887800	Clamp Filter	ZCAT1518-0730			04
127	--	Ferrite Clamp	RFC-13	(V614890)		
130	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		9	01
132	--	Meter Shield 1L	LEFT	(V647900)		
133	--	Meter Shield 1R	RIGHT	(V650670)		
135	VP157900	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		2	01
136	--	Meter Shield 2L	LEFT	(V650650)		
137	VP157900	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			01
138	--	Meter Shield 2R	RIGHT	(V650680)		
139	VP157900	Bind Head Tapping Screw-B	3.0X8 MFZN2BL			01
* 140	V4738600	Meter Pad	LEFT			20
150	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
* 160	V4738700	Meter Pad	RIGHT			20
170	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
* 180	V2860400	Window	METER 1			20
190	--	Angle	WINDOW	(V450320)		
200	VP157900	Bind Head Tapping Screw-B	A3.0X8 MFZN2BL		2	01
* 210	V2860500	Window	METER 2			18
220	--	Angle	WINDOW	(V450320)		
230	VP157900	Bind Head Tapping Screw-B	A3.0X8 MFZN2BL		2	01
240	--	LCD Blank Panel	LEFT	(V418850)		
250	--	LCD Escutcheon Side Board	LEFT	(V418820)		
260	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		2	01
* 270	V4750100	Bolt	3X6 MFZNBL		2	01
280	--	LCD Blank Panel	RIGHT	(V418840)		
290	--	LCD Escutcheon Side Board	RIGHT	(V418810)		
300	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		2	01
* 310	V4750100	Bolt	3X6 MFZNBL		2	01
* 320	V4189200	Ball Catch Stay				08
* 330	V4742500	Ball Catch	TL-42-2			06
340	VB939700	Flat Head Screw	3.0X8 MFZN2BL		2	01
350	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		2	01
360	--	LCD Escutcheon	UPPER	(V418780)		
* 370	V4750200	Bolt	4X8 MFZNBL		3	01
380	VR145600	Bind Head Tapping Screw-B	A4.0X16 MFZN2BL		2	01
* 390	V4188300	LCD Escutcheon Cover	LOWER			14
400	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		9	01
405	VP156800	Bind Head Screw	A4.0X8 MFZN2BL		6	01
410	--	LCD Assembly		(V473380)		
415	--	Holder, Band	TMS-20	(V563110)		
416	VP156700	Bind Head Tapping Screw-B	A3.0X8 MFZN2BL		2	01
420	VB939700	Flat Head Screw	3.0X8 MFZN2BL		2	01
430	VP156800	Bind Head Screw	A4.0X8 MFZN2BL		4	01
* 440	V4188000	LCD Hinge Cover				22
450	VP156800	Bind Head Screw	A4.0X8 MFZN2BL		4	01
455	--	Angle		(V573620)		
456	VP156800	Bind Head Screw	A4.0X8 MFZN2BL		5	01
* 460	V4187900	LCD Escutcheon	LOWER			13
* 470	V4750100	Bolt	3X6 MFZNBL		3	01
* 480	V46080S0	Control Panel Assembly	MASTER			14
* 490	V4576500	Name Plate	MASTER			14
* 510	V46083S0	Control Panel Assembly	OUT SEL			14
* 520	V4576600	Name Plate	OUT SEL			14
* 540	V46082S0	Control Panel Assembly	IN SEL			13
* 550	V4576400	Name Plate	IN SEL			13
* 570	V46079S0	Control Panel Assembly	IN			13
* 590	V4607900	Control Panel Assembly	IN			13
* 600	V4748600	Name Plate	IN24			13

*: New Parts

RANK: Japan only

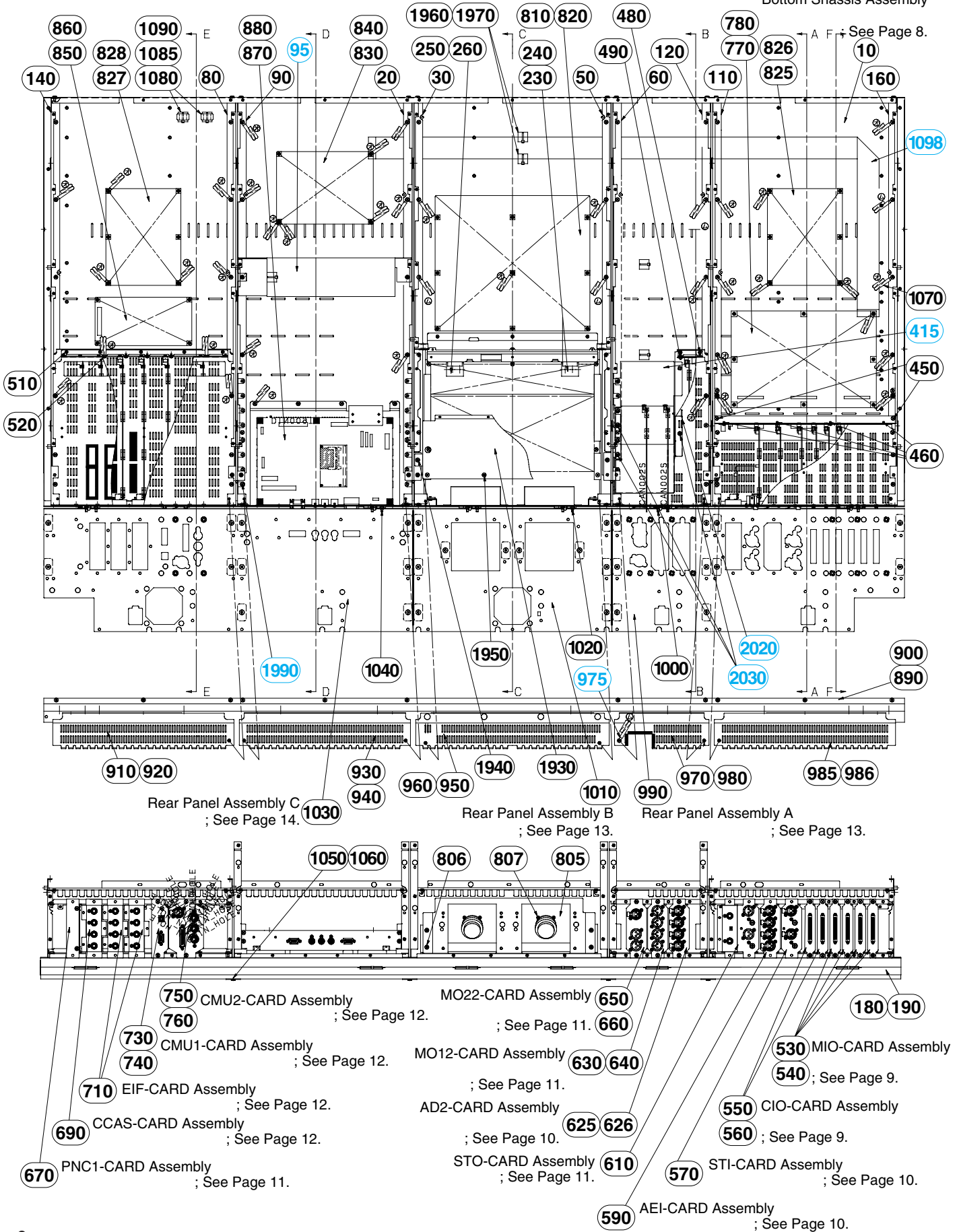
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* 610	V4576300	Name Plate	IN12			13
* 630	V4607900	Control Panel Assembly	IN			
* 650	V4607900	Control panel Assembly	IN			
* 660	V4748800	Name Plate	IN48			13
* 670	V4748700	Name Plate	IN36			13
675	--	Under Plate, Meter	Upper-R	(V565870)		
676	--	Under Plate, Meter	Upper-L	(V565880)		
* 680	V4750100	Bolt	3X6 MFZNBL		75	01
* 685	V6055300	Bolt	3X8 MFZNBL		11	
690	VP156800	Bind Head Screw	A4.0X8 MFZN2BL		114	01
735	VN103500	Lithium Battery	CR2032			03
* 740	V4738200	Corner Pad	FRONT-L			19
750	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
760	--	Angle, Front Pad	LEFT	(V507710)		
770	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL			01
* 780	V4738300	Corner Pad	FRONT-R			19
790	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
800	--	Angle, Front Pad	LEFT	(V507710)		
810	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL			01
820	--	Support Metal	LAMP VR	(V490770)		
* 830	V47045S0	Circuit Board	CS LAMPVR (CSCOM)			
840	ES200180	Hexagonal Nut	7.0 10X2 MFZN2BL			01
850	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		2	01
860	VP156600	Bind Head Tapping Screw-B	A3.0X6 MFZN2BL		2	01
870	VQ920800	Knob	L-GY/D-GY			03
880	VC362700	Ferrite Core	FR25/15/12-1400L		2	04
890	CB817510	Cord Binder	S-14B		2	03
900	VP156700	Bind Head Tapping Screw-B	A3.0X8 MFZN2BL		4	01
		ACCESSORIES				
	VC791100	Lamp	12V 5W		4	21
*	V4789600	SCSI Cable	DHK-HA2-10000			47
*	V4790400	BNC Cable	BNC-P-10000		2	18
*	V4845300	Cover				71
	--	Connector Protector		(V590310)	2	
	--	CD-ROM		(XY714A0)		
	--	CD-ROM		T (XY604A0)		

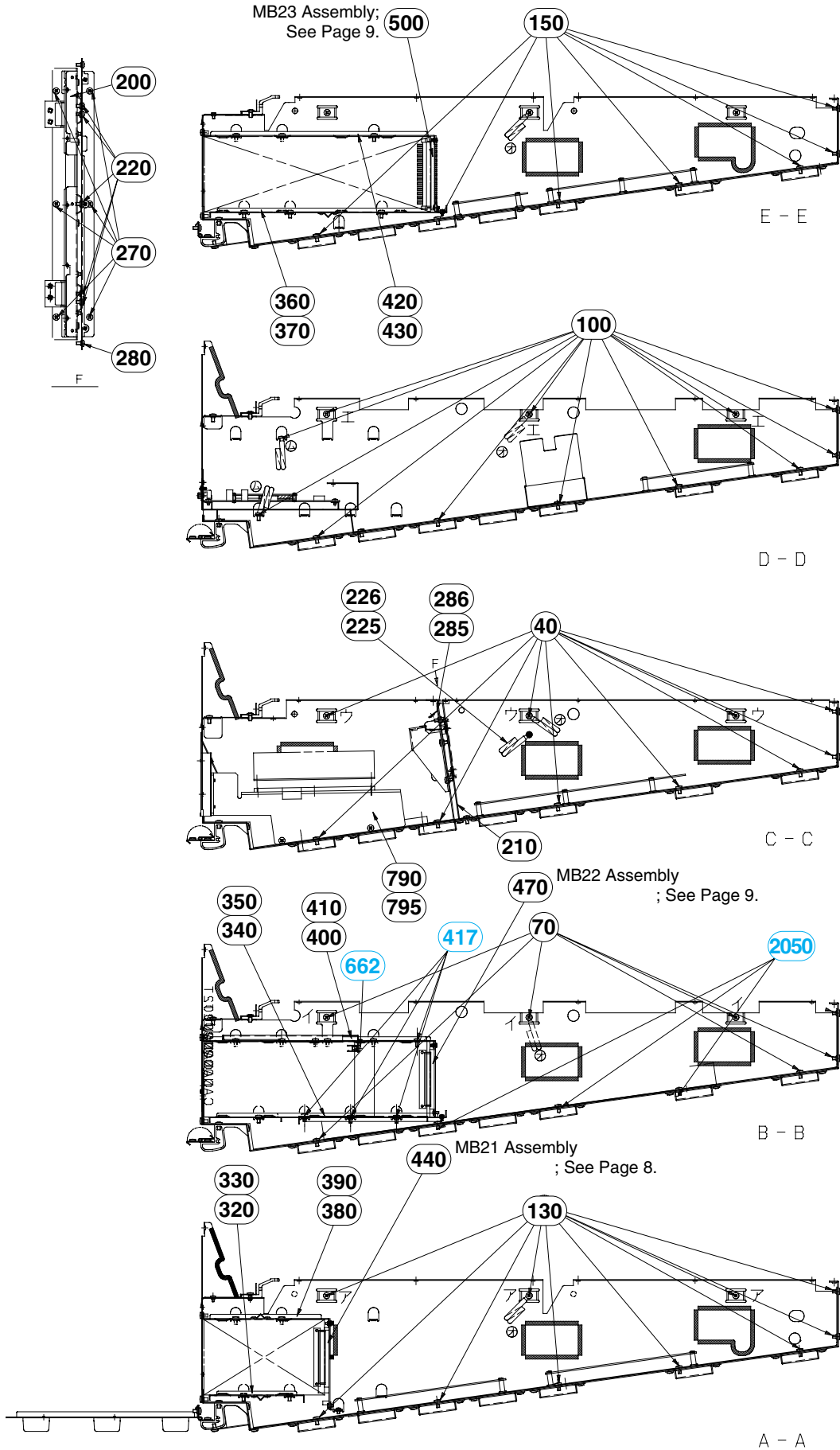
*: New Parts

RANK: Japan only

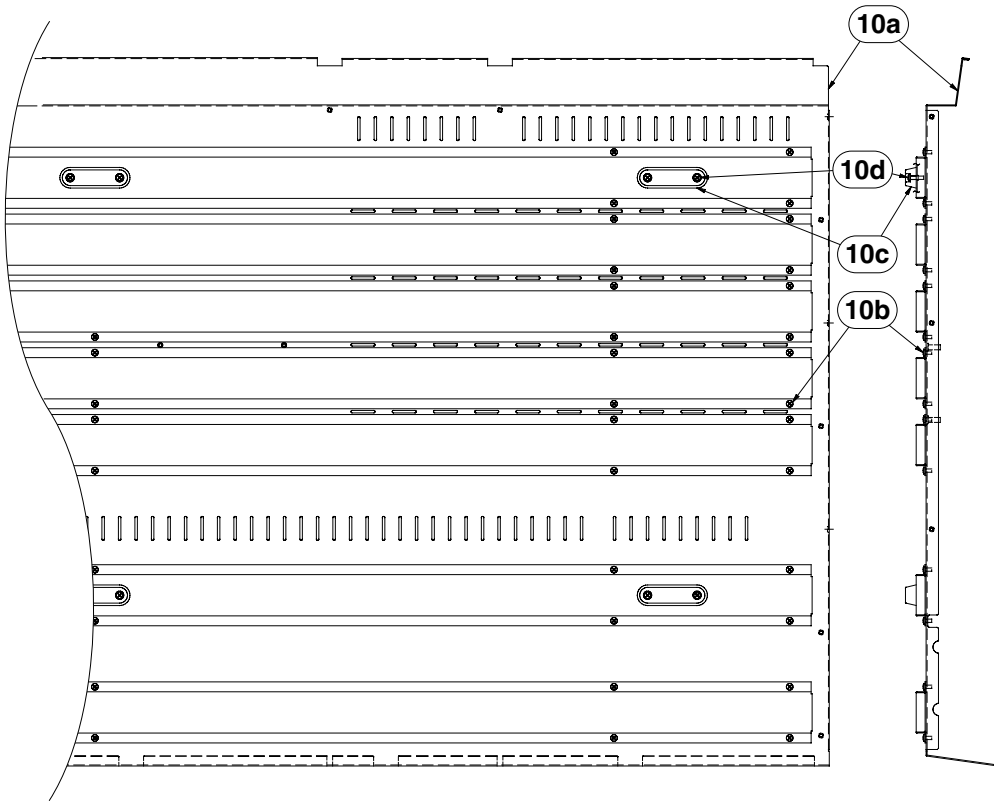
■ BOTTOM ASSEMBLY

Bottom Shassis Assembly

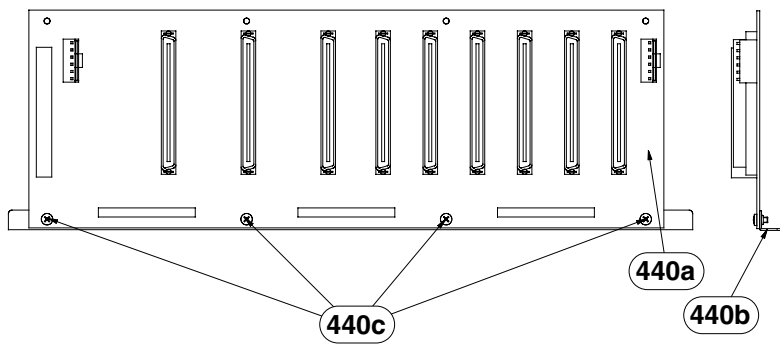




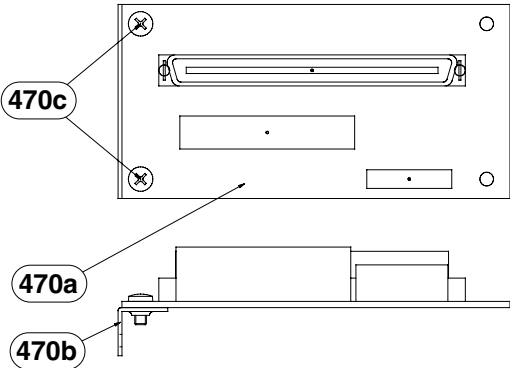
• Bottom shassis Assembly



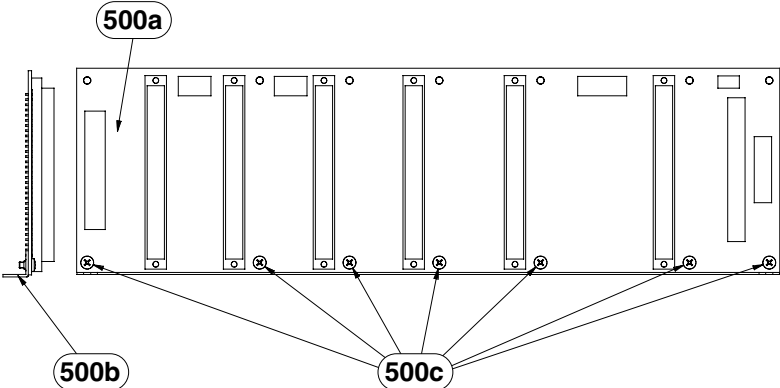
• MB21 Assembly



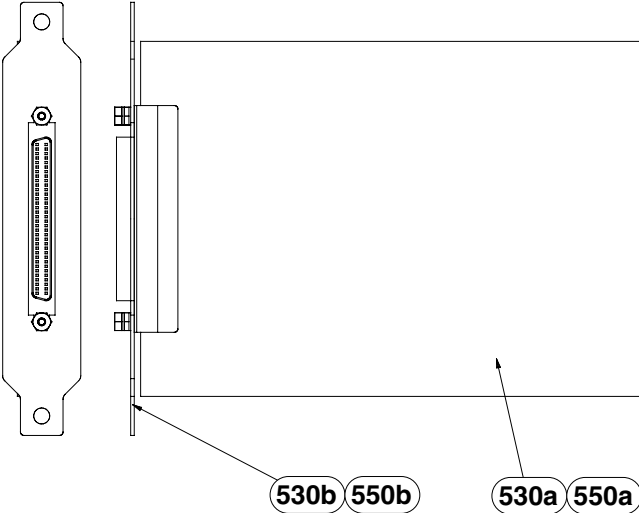
• MB22 Assembly



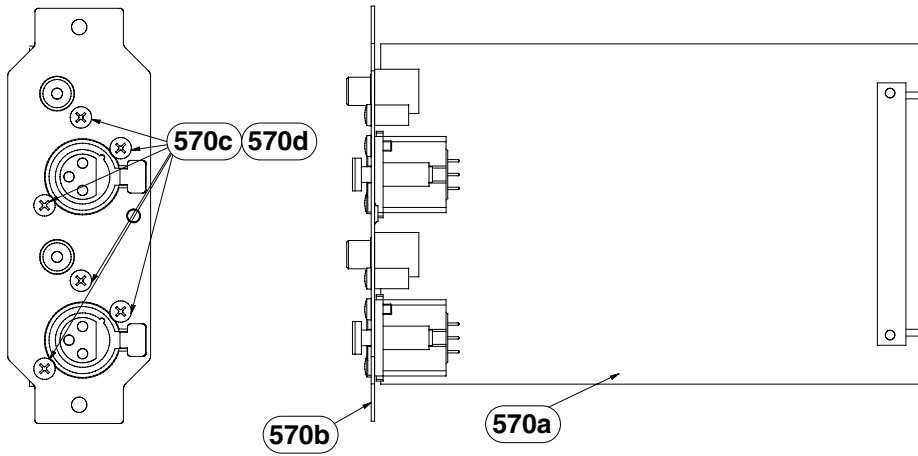
• MB23 Assembly



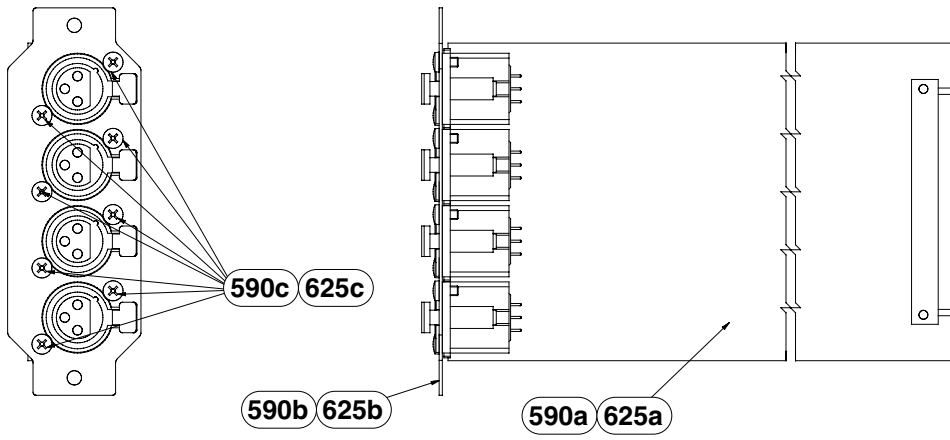
• MIO-CARD Assembly, CIO-CARD Assembly



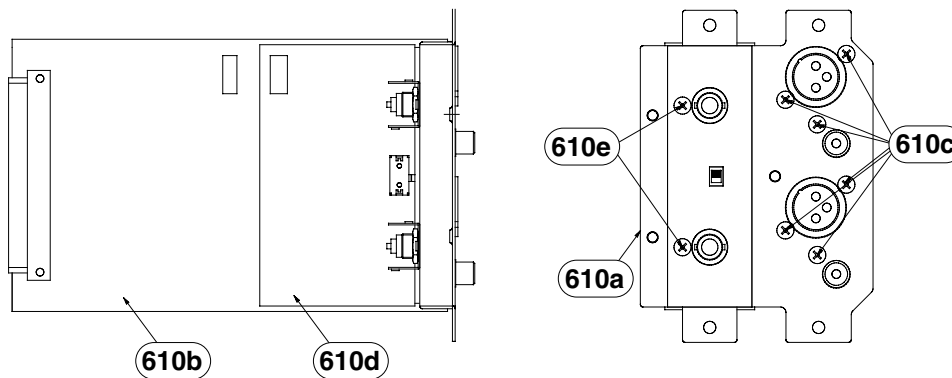
• STI-CARD Assembly



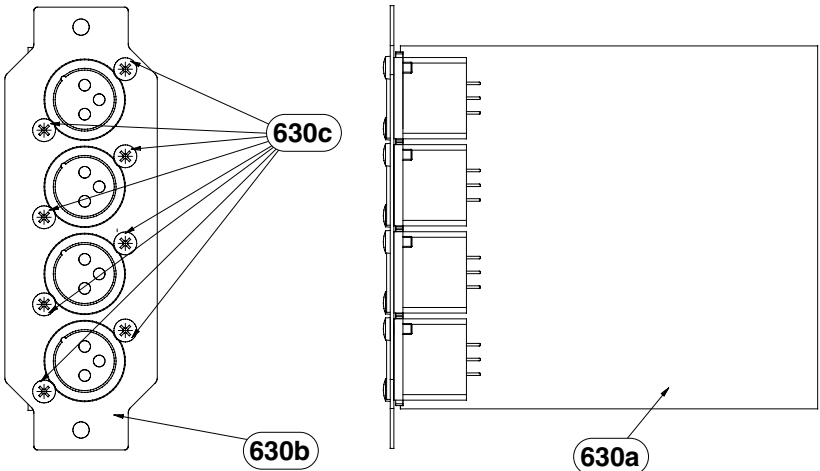
• AEI-CARD Assembly, AD2-CARD Assembly



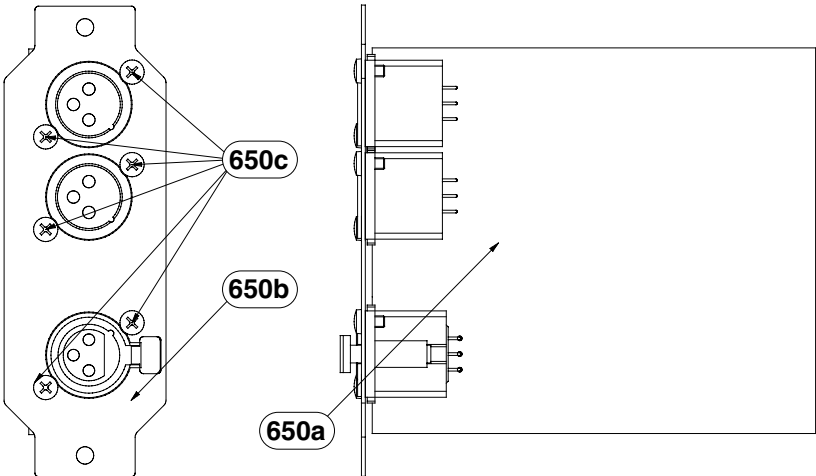
• STO-CARD Assembly



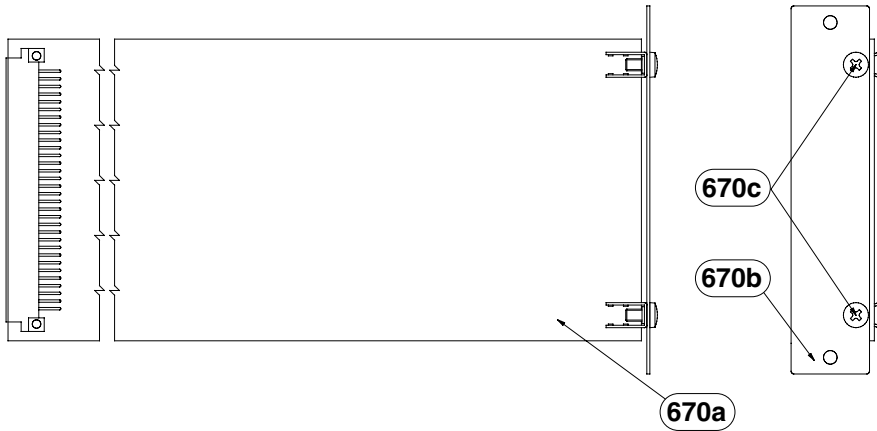
• MO12-CARD Assembly



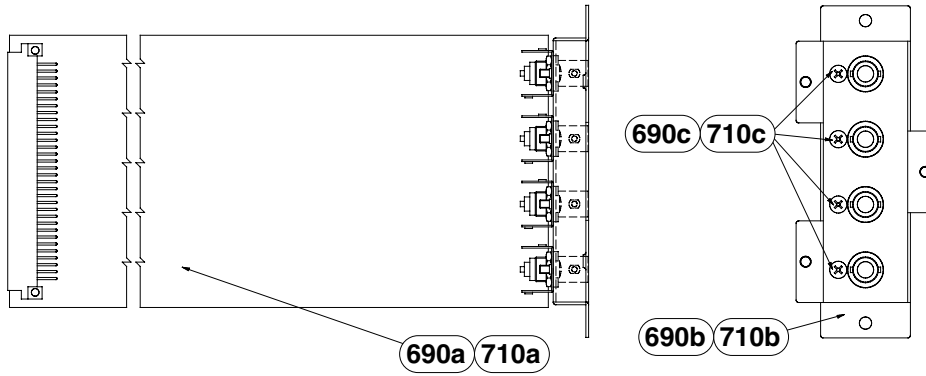
• MO22-CARD Assembly



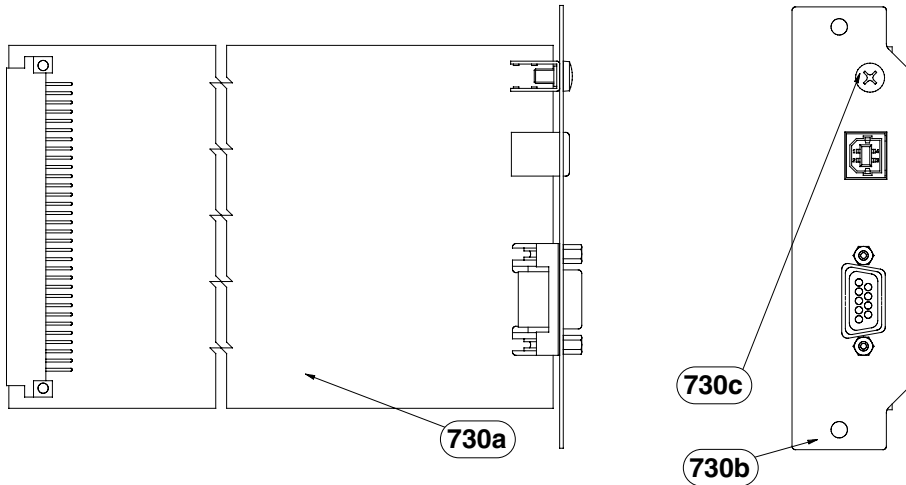
• PNC1-CARD Assembly



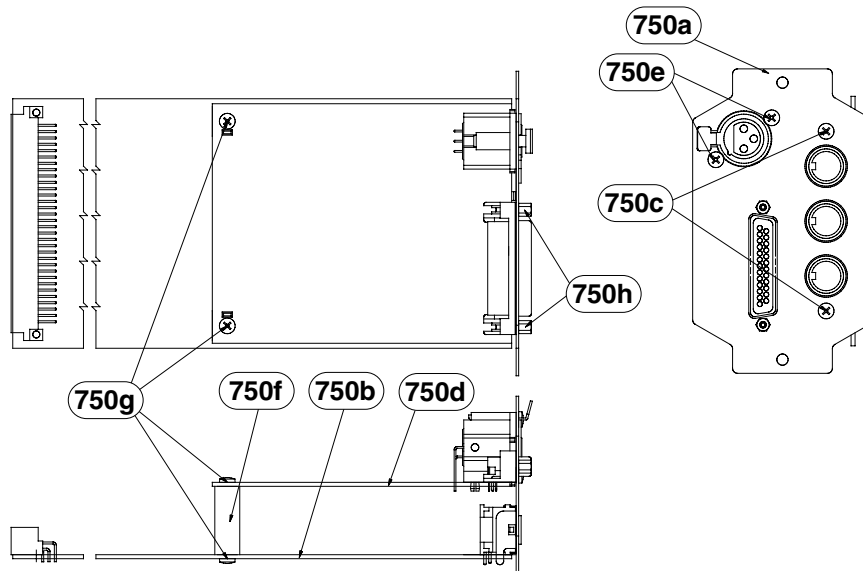
• CCAS-CARD Assembly, EIF-CARD Assembly



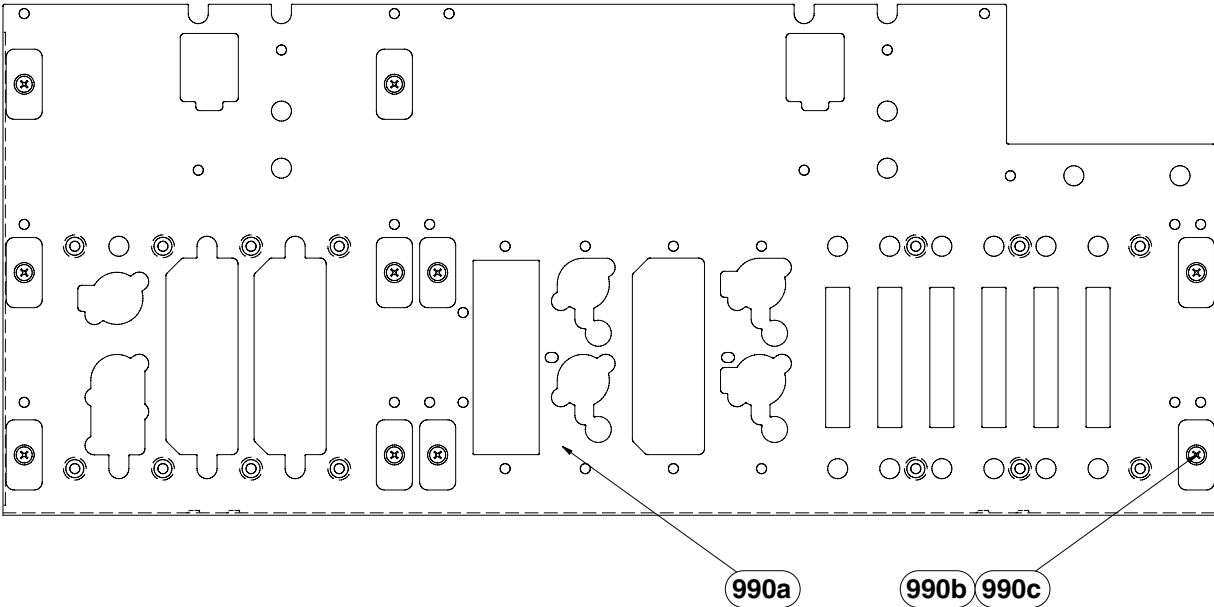
• CMU1-CARD Assembly



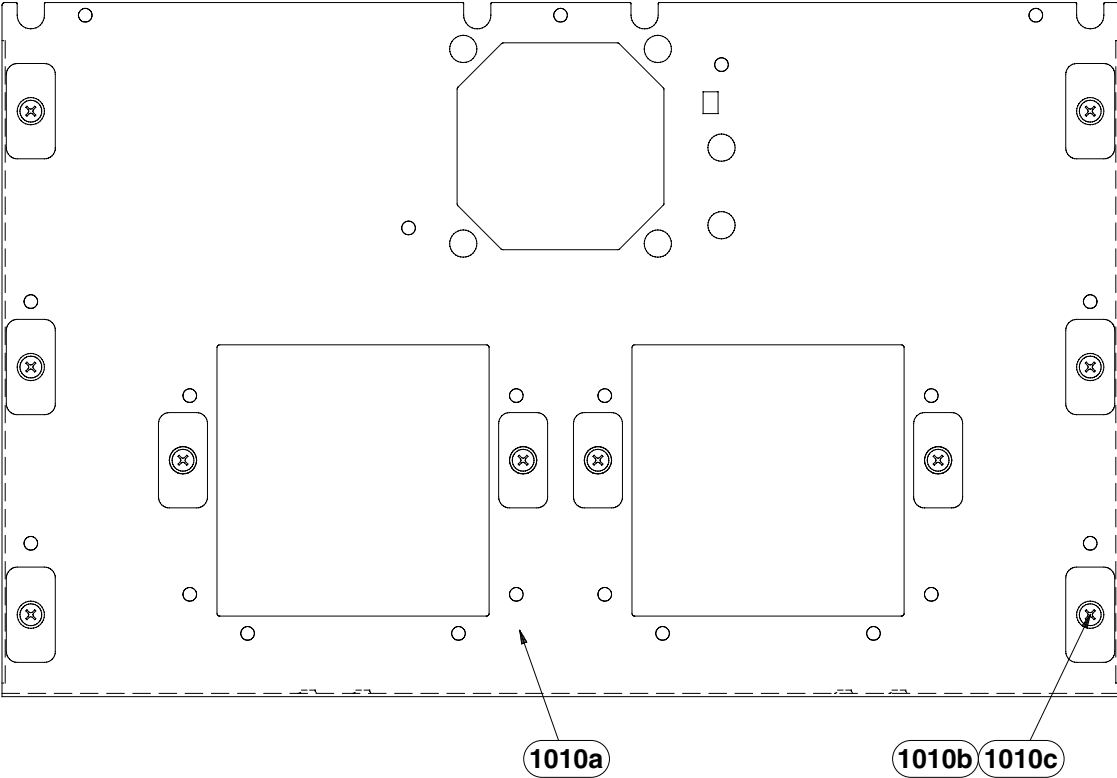
• CMU2-CARD Assembly



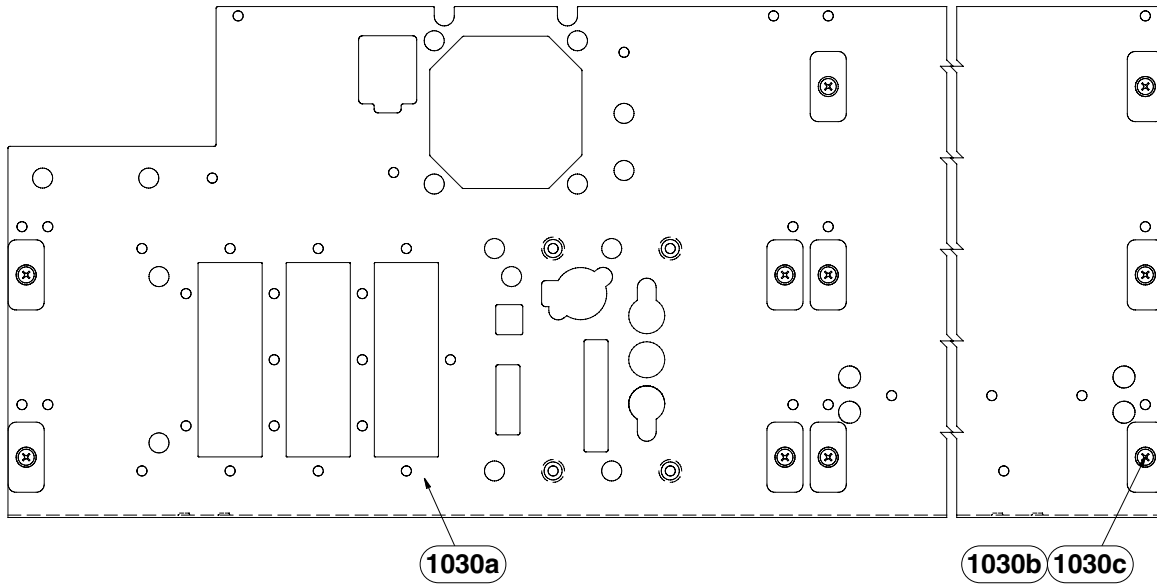
• Rear Panel Assembly A



• Rear Panel Assembly B



• Rear Panel Assembly C



REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		BOTTOM ASSEMBLY		CS1D		
	--	Bottom Assembly		(V468730)		
* 10	V4687400	Bottom Shassis				
10a	--	Bottom Shassis		(V286440)		
10b	EG340190	Bind Head Tapping Screw-B	4.0X8 MFZN2BL		65	01
10c	VN670900	Foot			5	07
10d	VR060200	Bind Head Tapping Screw-B	4.0X16 MFZN2BL		12	01
20	--	Frame	MAIN 1R	(V454590)		
30	--	Frame	MAIN 2L	(V454600)		
40	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		17	01
50	--	Frame	MAIN 2R	(V454610)		
60	--	Frame	MAIN 1L	(V454580)		
70	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		14	01
80	--	Frame	MAIN 2R	(V454610)		
90	--	Frame	MAIN 3L	(V454620)		
95	--	Shield Cable 2		(V624660)		
100	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		19	01
110	--	Frame	MAIN 2L	(V454600)		
120	--	Frame	MAIN 3R	(V454630)		
130	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		17	01
140	--	Frame	MAIN 3R	(V454630)		
150	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		7	01
160	--	Frame	MAIN 3L	(V454620)		
170	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		7	01
* 180	V4693000	Rear Pad Assembly				
190	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		30	01
200	--	LCD Frame		(V285480)		
210	--	LCD Frame 2		(V285470)		
220	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		5	01
225	CB817510	Cord Binder	S-14B			03
226	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL			01
230	--	Hinge Stay	LEFT	(V426750)		
240	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
250	--	Hinge Stay	RIGHT	(V426720)		
260	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
270	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		6	01
280	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
285	--	LCD Frame Sub-Angle		(V573610)		
286	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
320	--	Bottom Panel	DA	(V454420)		
330	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
340	--	Bottom Panel AD	AD	(V454430)		
350	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		5	01
360	--	Bottom Panel	COM	(V454440)		
370	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		6	01
380	--	Top Panel	DA	(V454450)		
390	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
400	--	Top Panel	AD	(V454460)		
410	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		5	01
415	--	MO Guide		(V675970)		
417	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
420	--	Top Panel	COM	(V454470)		
430	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		6	01
440	--	MB21 Assembly		(V469960)		
* 440a	V41133S0	Circuit Board	CS MB21			
440b	--	Angle 1		(V454390)		
440c	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		4	01
440d	--	Flat Cable Assembly	50P 770L	(V504810)		
440e	--	Cable, FFC	P=1.25-K-40-150	(V503820)	3	
450	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		2	01
460	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		4	01
470	--	MB22 Assembly		(V469910)		
* 470a	V41134S0	Circuit Board	CS MB22 (CSCOM)			
470b	--	Angle 2		(V454400)		
470c	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		2	01
470d	--	Flat Cable Assembly	30P 540L	(V504830)		
480	VP157900	Bind Head Tapping Screw-B	A3.0X6 MFZN2BL		2	01
490	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		2	01
500	--	MB23 Assembly		(V469870)		
* 500a	V45140S0	Circuit Board	CS MB23			

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
500b	--	Angle 3	(V454410)		
500c	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL	7	01
500d	--	Flat Cable Assembly	40P 250L		
510	VP157900	Bind Head Tapping Screw-B	A3.0X6 MFZN2BL	5	01
520	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL	7	01
* 530	V46939S0	MIO-CARD Assembly		4	
530a	--	Circuit Board	CS MIO		
530b	--	Plate, D-SUB	(V454250)		
540	VS154500	Bonding Head Screw	4.0X8 MFZN2BL	8	01
* 550	V46966S0	CIO-CARD Assembly		2	
550a	--	Circuit Board	CS CIO		
550b	--	Plate, D-SUB	(V454250)		
560	VS154500	Bonding Head Screw	4.0X8 MFZN2BL	4	01
* 570	V46969S0	STI-CARD Assembly			
570a	--	Circuit Board	CS STI		
570b	--	Plate, Cannon 3	(V411300)		
570c	VS863000	Bonding Head Screw	3.0X6 MFZN2BL	4	01
570d	VN413300	Bonding Head Tapping Screw	3.0X8 MFZN2BL	2	01
* 590	V46970S0	AEI-CARD Assembly			
590a	--	Circuit Board	CS AEI		
590b	--	Plate, Cannon 2	(V438150)		
590c	VS863000	Bonding Head Screw	3.0X6 MFZN2BL	8	01
* 610	V46971S0	STO-CARD Assembly			
610a	--	Plate, BNC 1	(V454300)		
610b	--	Circuit Board	CS STO1 (STCOM)		
610c	VS863000	Bonding Head Screw	3.0X6 MFZN2BL	6	01
610d	--	Circuit Board	CS STO2 (STCOM)		
610e	VN413300	Bonding Head Tapping Screw	3.0X8 MFZN2BL	2	01
* 625	V50859S0	AD2-CARD Assembly			
625a	--	Circuit Board	LMY4AD AD2		
625b	--	Plate, Cannon 22	(V509980)		
625c	VS863000	Bonding Head Screw	3.0X6 MFZN2BL	8	01
626	VS154500	Bonding Head Screw	4.0X8 MFZN2BL	2	01
* 630	V46974S0	MO12-CARD Assembly			
* 630a	V66735S0	Circuit Board	CS MO1-2 (MOCOM2)		
630b	--	Plate, Cannon 1	(V454260)		
630c	VS863000	Bonding Head Screw	3.0X6 MFZN2BL	8	01
640	VS154500	Bonding Head Screw	4.0X8 MFZN2BL	2	01
* 650	V46976S0	MO22-CARD Assembly			
* 650a	V66736S0	Circuit Board	CS MO2-2 (MOCOM2)		
650b	--	Plate, Cannon 4	(V454290)		
650c	VS863000	Bonding Head Screw	3.0X6 MFZN2BL	6	01
660	VS154500	Bonding Head Screw	4.0X8 MFZN2BL	2	01
662	VS154500	Bonding Head Screw	4.0X8 MFZN2BL	2	01
* 670	V46977S0	PNC1-CARD Assembly			
670a	--	Circuit Board	CS PNC1		
670b	--	Plate, BNC	(V451350)		
670c	VS154500	Bonding Head Screw	4.0X8 MFZN2BL	2	01
* 690	V46978S0	CCAS-CARD Assembly			
690a	--	Circuit Board	CS CCAS		
690b	--	Plate, BNC 2	(V504990)		
690c	VS863000	Bonding Head Screw	3.0X6 MFZN2BL	4	01
* 710	V46979S0	EIF-CARD Assembly		2	
710a	--	Circuit Board	CS EIF		
710b	--	Plate, BNC 2	(V451380)		
710c	VS863000	Bonding Head Screw	3.0X6 MFZN2BL	4	01
* 730	V46981S0	CMU1-CARD Assembly			
730a	--	Circuit Board	CS CMU1		
730b	--	Plate, CMU 1	(V451320)		
730c	VS154500	Bonding Head Screw	4.0X8 MFZN2BL		01
740	VS154500	Bonding Head Screw	4.0X8 MFZN2BL	2	01
* 750	V46982S0	CMU2-CARD Assembly			
750a	--	Plate, CMU 2	(V454320)		
750b	--	Circuit Board	CS CMU2		
750c	VS863000	Bonding Head Screw	3.0X6 MFZN2BL	2	01
* 750d	V45134S0	Circuit Board	CS MTG (CSCOM)		
750e	VS863000	Bonding Head Screw	3.0X6 MFZN2BL	2	01
750f	--	Reinforcement Plate	(V454490)	2	
750g	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL	4	01
750h	VS604900	Hex. Locking Screw	JFS-2.6S-BIW	2	01

*: New Parts

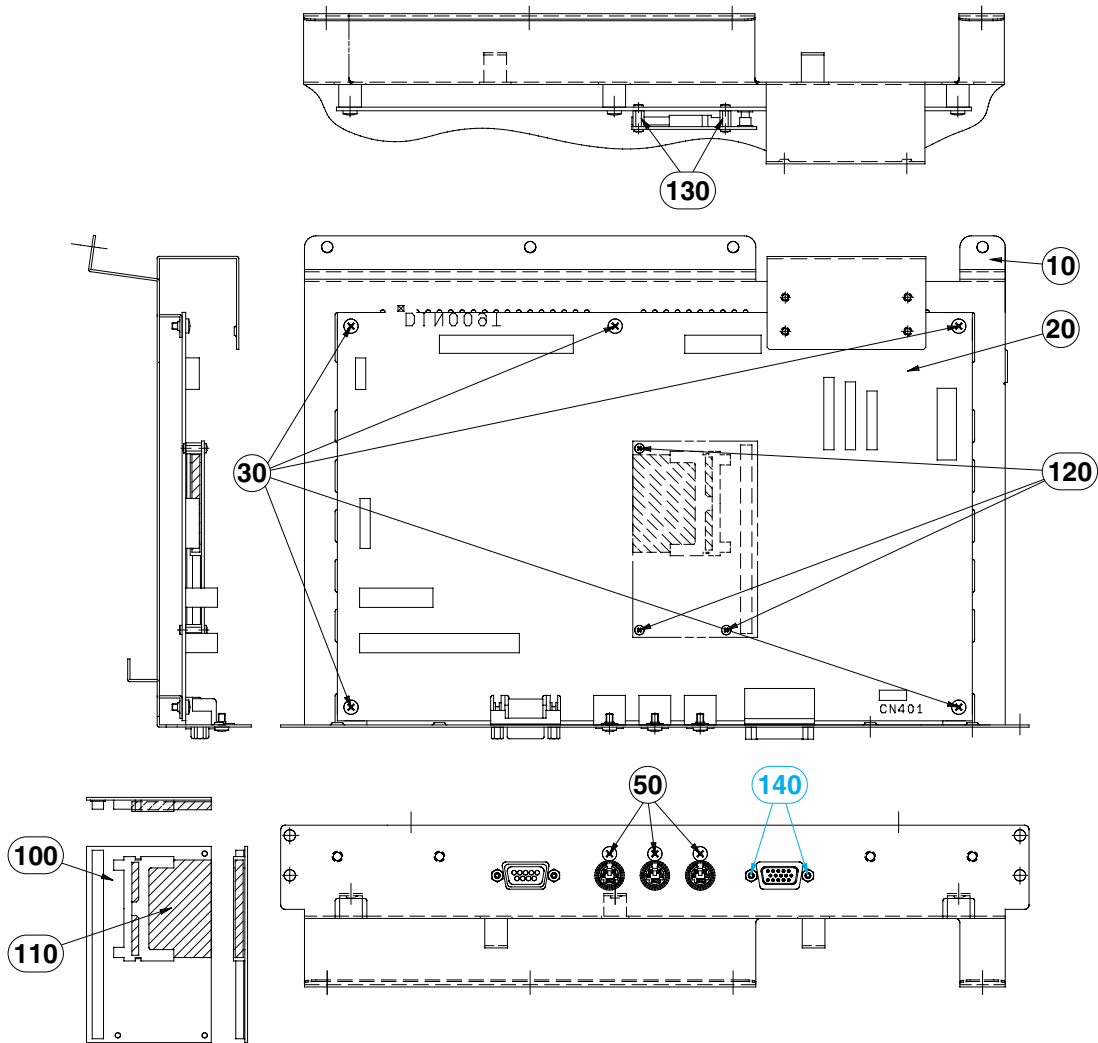
RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
760	VS154500	Bonding Head Screw	4.0X8 MFZN2BL		2	01
* 770	V41132S0	Circuit Board	CS MTCPU			
780	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		8	01
△ 790	V4704800	Power Supply Unit				
795	VR145600	Bind Head Tapping Screw-B	A4.0X16 MFZN2BL		5	01
805	--	Sub Panel		(V492530)		
806	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
807	VP157000	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		8	01
* 810	V43340S0	Circuit Board	CS CNDS2			
820	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		9	01
* 825	V50656S0	Circuit Board	CS CNDS1			
826	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		6	01
* 827	V50657S0	Circuit Board	CS CNDS3			
828	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		6	01
* 830	V66737S0	Circuit Board	CS ADA2			
840	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		4	01
* 850	V45136S0	Circuit Board	CS PNC2 (CSCOM)			
860	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		6	01
870	--	PC Assembly		(V469860)		
880	VP156800	Bind Head Screw	A4.0X8 MFZN2BL		8	01
890	--	Under Plate, Meter	Lower	(V571390)		
900	VD831800	Bind Head Tapping Screw-B	A4.0X12 MFZN2BL		10	01
910	--	Shield Plate 1		(V454350)		
920	VP157000	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		3	01
930	--	Shield Plate 2		(V454360)		
940	VP157000	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		5	01
950	--	Shield Plate 3		(V454370)		
960	VP157000	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		5	01
970	--	Shield Plate 4		(V454380)		
975	VJ770600	Cord Binder	S-126		6	01
980	VP157000	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		4	01
985	--	Shield Plate 5		(V558720)		
986	VP157000	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		3	01
990	--	Rear Panel Assembly A		(V469330)		
* 990a	V4542100	Rear Panel A				20
990b	VT451200	Connector Guard			10	05
990c	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		10	01
1000	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
1010	--	Rear Panel Assembly B		(V469340)		
* 1010a	V4542200	Rear Panel B				18
1010b	VT451200	Connector Guard			10	05
1010c	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		10	01
1020	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
1030	--	Rear Panel Assembly C		(V469350)		
* 1030a	V4542300	rear Panel C				21
1030b	VT451200	Connector Guard			10	05
1030c	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		10	01
1040	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
1050	--	Reinforcement Angle	REAR PAD	(V456240)	4	
1060	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		8	01
1070	CB817510	Cord Binder	S-14B		42	03
1080	VC362700	Ferrite Core	FR25/15/12-1400L		2	04
1085	CB069250	Cord Holder	BK-1		2	01
1090	CB835590	Holder	TMS-20		2	01
1098	--	Shield, HP Cable		(V688320)		
1102	--	Connector Assembly	CNDS2-OS	(V625670)		
1110	--	Connector Assembly	CNDS3-MB23	(V625680)		
1140	--	Connector Assembly	CNDS2-IS	(V625610)		
1142	--	Connector Assembly	CNDS2-MB22	(V625620)		
1240	--	Connector Assembly	DNC2-CPU	(V625700)		
1242	--	Connector Assembly	ADA2-MTCPU	(V678590)		
1300	--	Connector Assembly	CNDS1-IN	(V625590)		
1330	--	Connector Assembly	CNDS2-MS	(V625640)	2	
1390	--	Connector Assembly	CNDS1-MB21	(V625600)		
1440	--	Connector Assembly	CNDS2-PCIF	(V625650)		
1470	--	Connector Assembly	CNDS3-IN	(V625690)		
1570	--	Connector Assembly	VH&PH&NK #20	(V504790)	2	
1570a	VN383300	Connector	NK-27-31S			19
1580	--	Connector Assembly	PU-CNDS	(V625580)		
1930	--	Lower Cover Sub-Angle		(V573570)		

*: New Parts

RANK: Japan only

■ PC ASSEMBLY

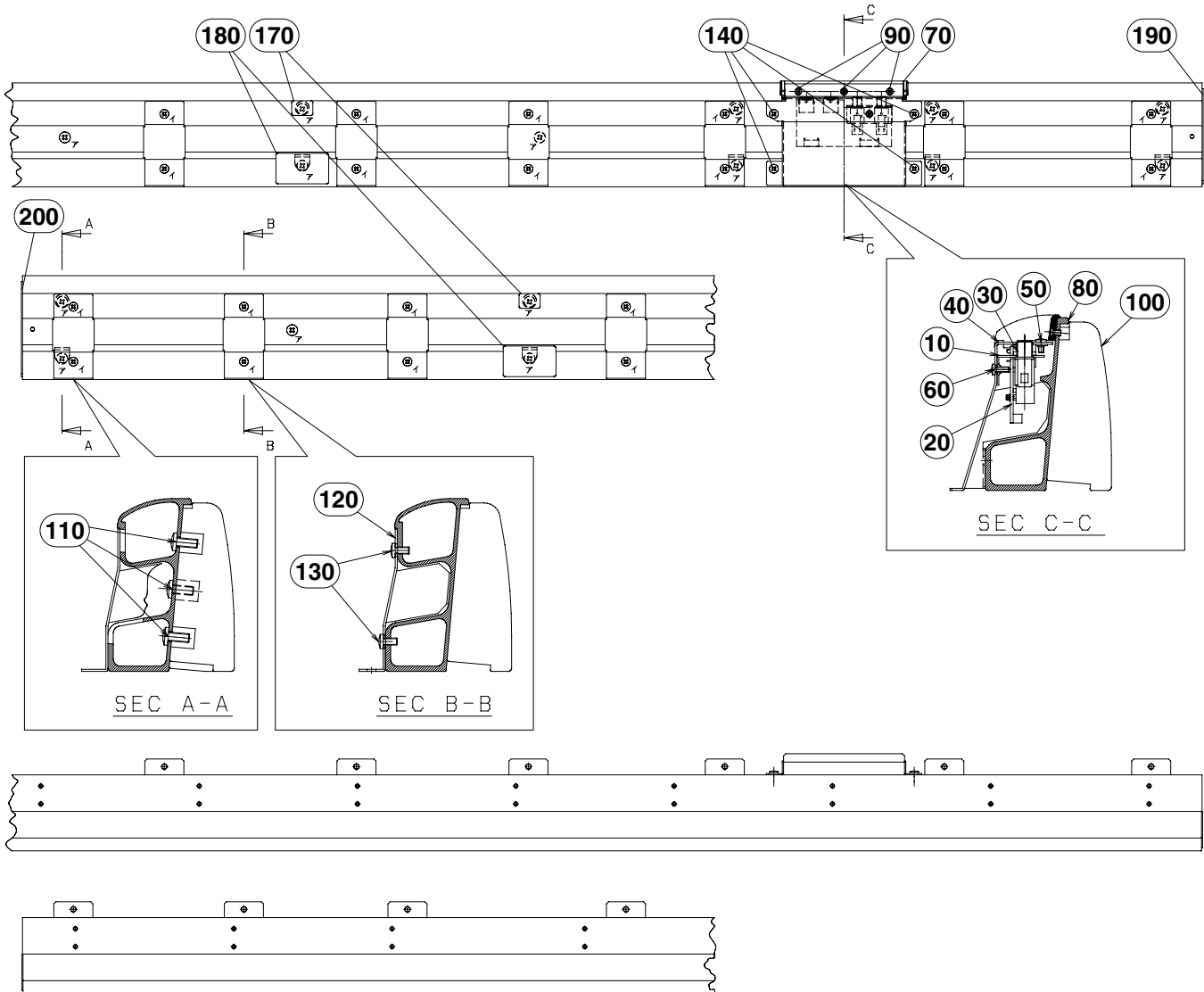


REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		PC ASSEMBLY		CS1D		
	--	PC Assembly		(V469860)		
	--	PC Bracket		(V454040)		
*	20	V45142S0	Circuit Board	CS PCIF		
	30	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		5 01
	50	VS863000	Bonding Head Screw	3.0X6 MFZN2BL		3 01
	60	--	Flat Cable Assembly	50P 450L	(V504820)	
	70	--	Flat Cable Assembly	80P 250L	(V504950)	
	80	--	Flat Cable Assembly	40P 270L	(V504960)	
	90	--	Flat Cable Assembly	20P 470L	(V504850)	
*	100	V4761400	CPU Card	SCE8700C01		63
*	110	XY208A00	IC	CF64MB	FLASH CARD	71
*	120	VV323200	Bind Head Screw	2.0X4 MFZN2Y		6 01
	130	--	Support	L=7 M2	(V508990)	3
*	140	V6706600	Hexagonal Lock Screw	HFS-4S-B1W		2

*: New Parts

RANK: Japan only

FRONT ASSEMBLY

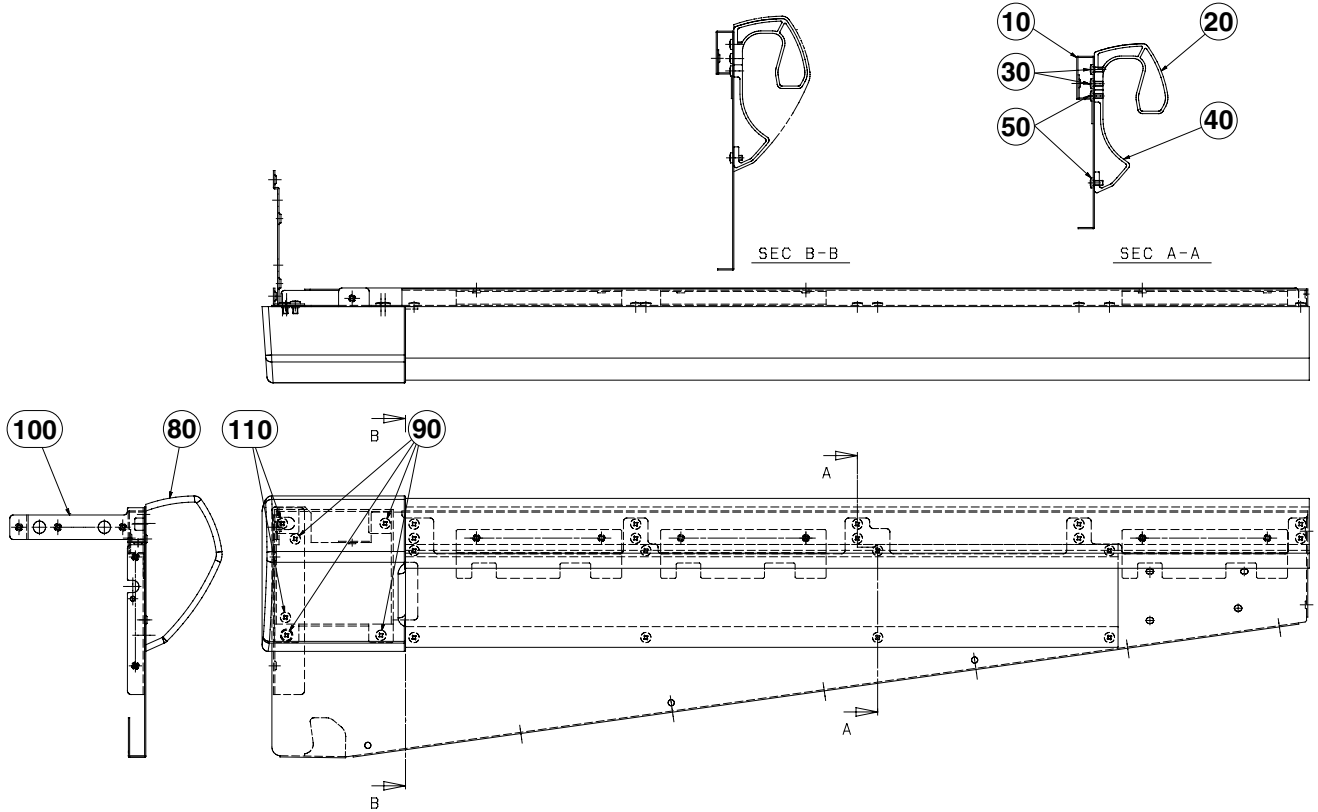


REF.NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
		FRONT ASSEMBLY	CS1D		
	--	Front Assembly	(V473320)		
	--	Angle Bracket, PHJ	(V443890)		
*	20	V47044S0	CS PS2HP (CSCOM)		
		Circuit Board			
	30	VJ388000	Hexagonal Nut		2 01
			9.0 11X2 MFZN2BL		
	40	--	Under Cover		
			PHJ		(V443850)
	50	VP157800	Bonding Head Screw		2 01
			3.0X8 MFZN2BL		
	60	VR144900	Bonding Tapping Screw-B		3 01
			3.0X6 MFZN2BL		
*	70	V4645000	Escusion		
			PHJ		
*	80	V2636600	Front Pad		64
	90	EC030030	Flat Head Screw		3 01
			3.0X6 MFZN2BL		
*	100	V2814000	Front Wood		57
	110	EG350170	Bind Head Screw		15 01
			5.0X12 MFZN2BL		
	120	--	Angle Bracket, Front Pad		(V287320) 10
	130	VC688800	Bind Head Tapping Screw-B		20 01
			A4.0X8 MFZN2BL		
	140	VC688800	Bind Head Tapping Screw-B		4 01
			A4.0X8 MFZN2BL		
	150	--	Connector Assembly		(V504740)
			PH8P&PH8P 600L #26		(V504750)
	160	--	Connector Assembly		(V537670)
			PH&PH 6P 1100 #28		(V563130)
	170	--	PET Sheet		2
	180	--	PET Sheet		2
			F-PAD		(V582500)
	190	--	Spacer		(V582910)
			Right		
	200	--	Spacer		
			Left		

*: New Parts

RANK: Japan only

■ SIDE PANEL (L,R) ASSEMBLY



● Side Panel L Assembly

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	SIDE PANEL ASSEMBLY	LEFT	CS1D		
	--	Side Panel Assembly	LEFT	(V473340)		
* 10	V4639500	Side Panel	LEFT			24
* 20	V2596700	Side Pad	UPPER			20
* 30	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		10	01
* 40	V2596800	Side Pad	LOWER			20
* 50	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		8	01
* 80	V4738400	Corner Pad	REAR-L			19
* 90	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
100	--	Bracket, Side-Rear	LEFT	(V492560)		
110	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		2	01

*: New Parts

RANK: Japan only

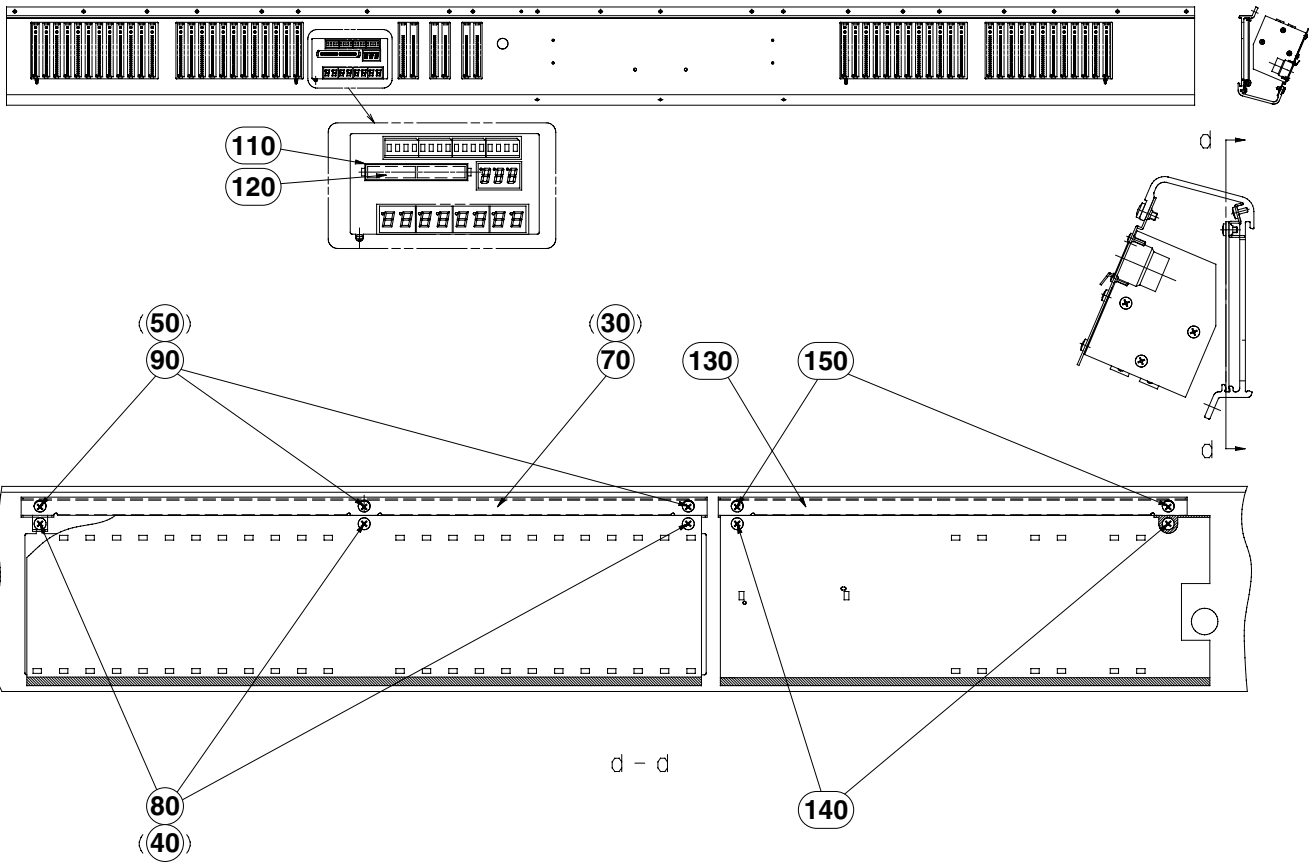
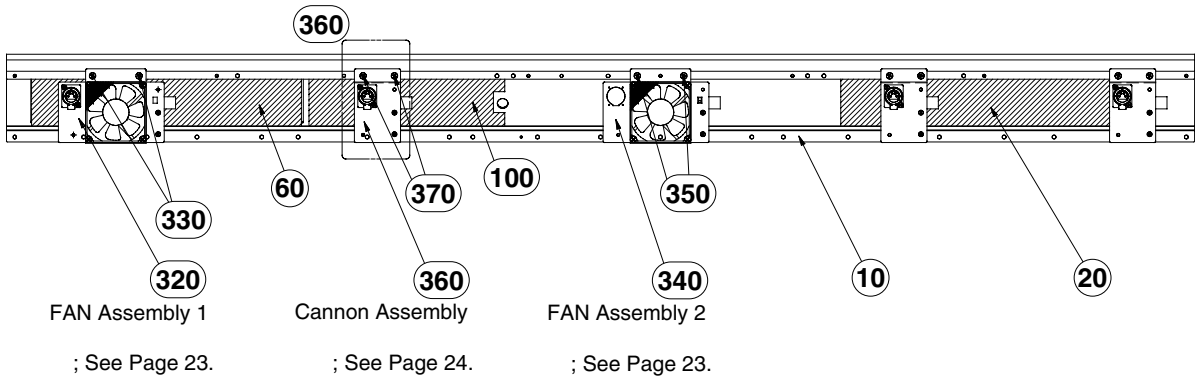
● Side Panel R Assembly

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	SIDE PANEL ASSEMBLY	RIGHT	CS1D		
	--	Side Panel Assembly	RIGHT	(V473720)		
* 10	V4639600	Side Panel	RIGHT			24
* 20	V2596700	Side Pad	UPPER			20
* 30	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		10	01
* 40	V2596800	Side Pad	LOWER			20
* 50	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		8	01
* 80	V4738500	Corner Pad	REAR-R			19
* 90	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		4	01
100	--	Blacket, Side-Rear	RIGHT	(V492610)		
110	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		2	01

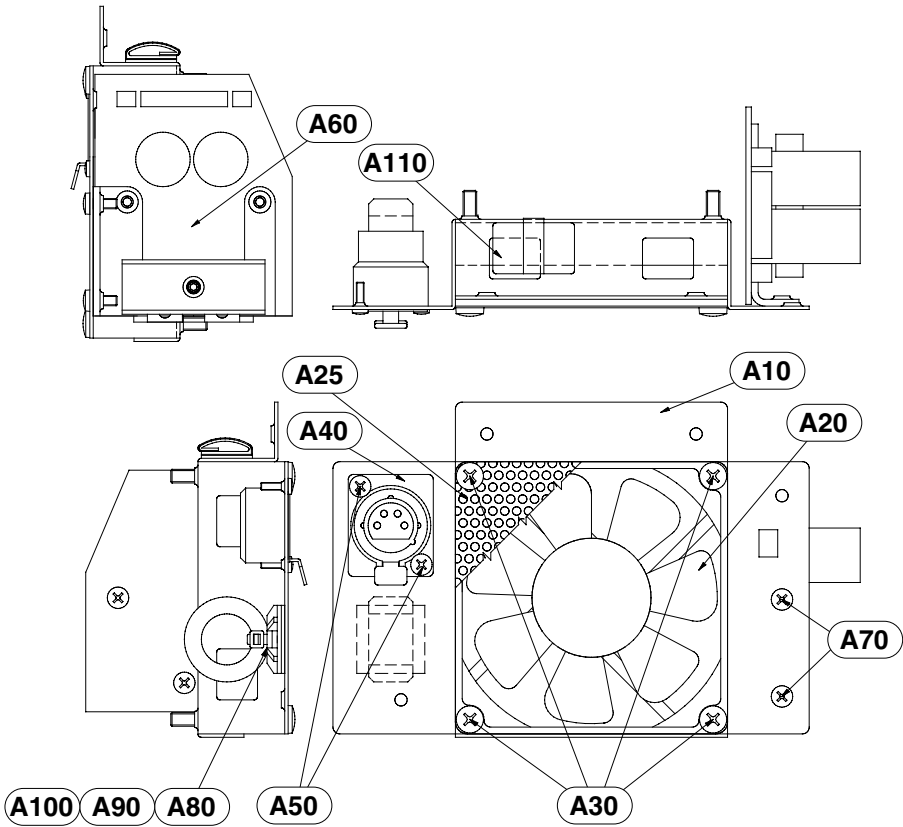
*: New Parts

RANK: Japan only

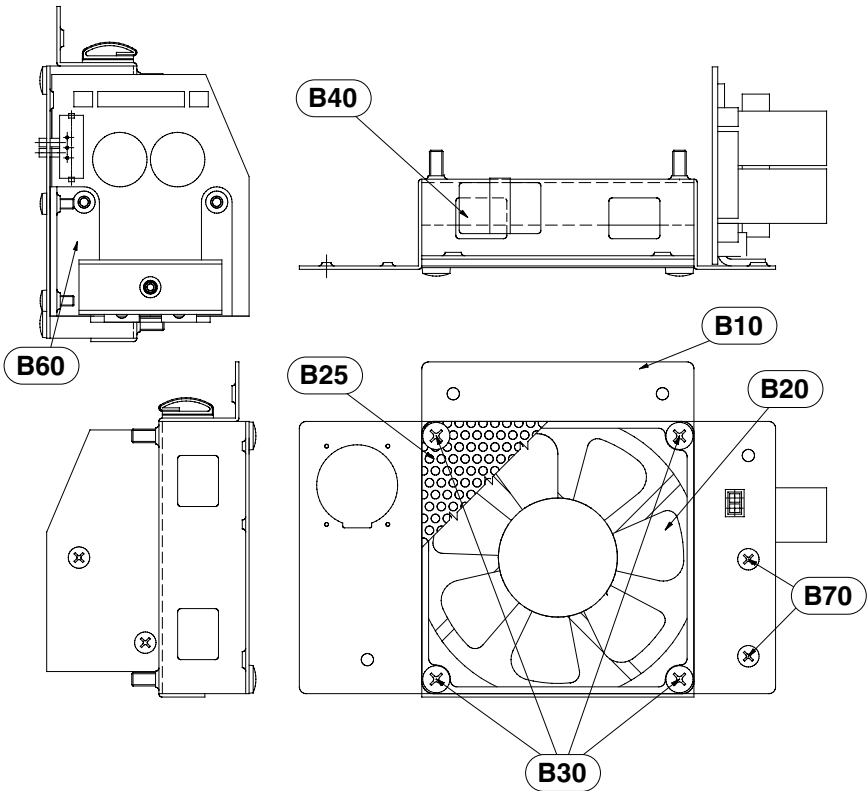
METER ASSEMBLY



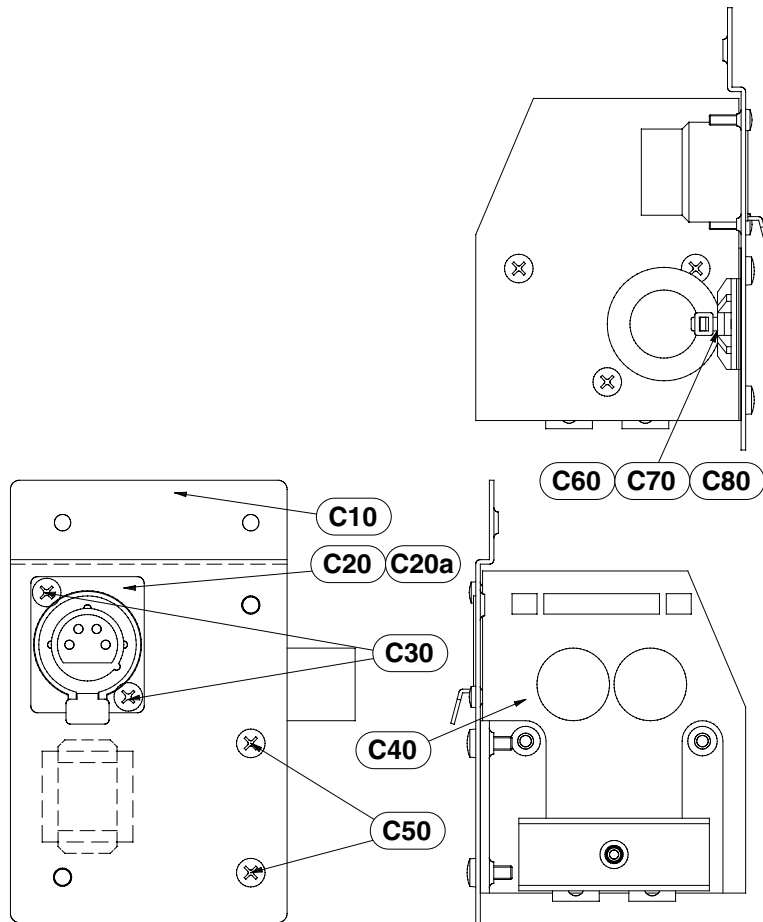
• Fan Assembly 1



• Fan Assembly 2



• Cannon Assembly

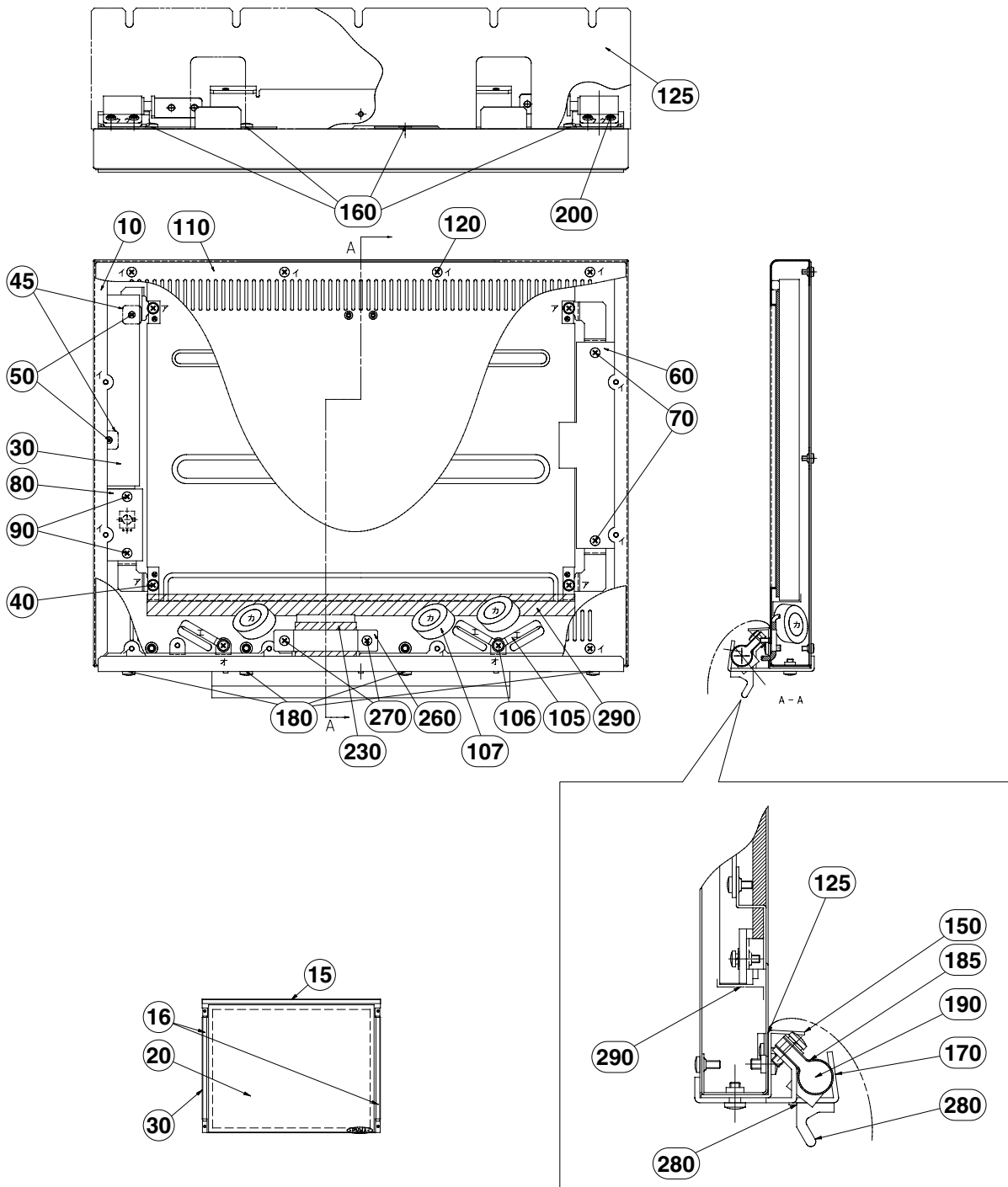


REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		METER ASSEMBLY		CS1D		
	--	Meter Assembly		(V473370)		
* 10	V2586400	Meter Panel				63
* 20	V43338S0	Circuit Board	CS MT2			
30	--	Meter Sub Angle 1		(V450420)		
40	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		3	01
50	VP157900	Bind Head Tapping Screw-B	A3.0X6 MFZN2BL		3	01
* 60	V50497S0	Circuit Board	CS MT3			
70	--	Meter Sub Angle 1		(V450420)		
80	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		3	01
90	VP157900	Bind Head Tapping Screw-B	A3.0X6 MFZN2BL		3	01
* 100	V43337S0	Circuit Board	CS MT1			
110	--	Escutcheon, Indicator		(V426740)		
120	--	Optical Diffusion Sheet		(V428700)		
130	--	Sub Angle, Meter 2		(V450470)		
140	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		2	01
150	VP157900	Bind Head Tapping Screw-B	A3.0X6 MFZN2BL		2	01
160	CB817510	Cord Binder	S-14B		5	03
165	VJ770600	Cord Binder	S-126			01
220	--	Connector Assembly	METER	(V625730)		
320	--	Fan Assembly 1		(V507670)		
330	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		2	01
340	--	Fan Assembly 2		(V507680)		
350	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		2	01
360	--	Cannon Assembly		(V555580)	3	
370	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL		6	01
400	--	Ferrite Clamp	RFC-10	(V614880)		
410	--	Ferrite Clamp	RFC-13	(V614890)	2	
420	VC362700	Ferrite Core	FR25/15/12			04
A10	--	Fan Assembly 1		(V507670)		
A20	--	Angle, Fan		(V505740)		
A25	V5789100	Motor	DC KDE1208PTS3-6	Fan		09
A30	V4562500	Fan Guide				09
A30	VG605800	Bind Head Screw	4.0X35 MFZN2BL		4	01
A40	--	Connector Assembly	CANON&PH2P 180L		(V504710)	
A50	EE620190	Pan Head Screw	2.6X8 MFNI33		2	01
* A60	V45662S0	Circuit Board	CS DRN			
A70	VP157000	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		2	01
A80	VC362700	Ferrite Core	FR25/15/12-1400L			04
A90	CB069250	Cord Holder	BK-1			01
A100	CB835590	Holder	TMS-20			01
A110	VN941800	Cord Holder	K-106G			01
B10	--	Fan Assembly 2		(V507680)		
B20	--	Angle, Fan		(V505740)		
B20	V5789100	Motor	DC KDE1208PTS3-6	Fan		09
* B25	V4562500	Fan Guide				09
B30	VG605800	Bind Head Screw	4.0X35 MFZN2BL		4	01
B40	VN941800	Cord Holder	K-106G			01
* B60	V47063S0	Circuit Board	CS DRS			
B70	VP157000	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		2	01
C10	--	Cannon Assembly		(V555580)		
C20	--	Plate, Cannon		(V555530)		
C20	--	Connector Assembly	CANON&PH2P 180L		(V504710)	
C20a	VA728100	XLM Connector	XLR-4-31-F77	LAMP		10
C30	EE620190	Pan Head Screw	2.6X8 MFNI33			01
* C40	V55471S0	Circuit Board	CS DRL			
C50	VP157000	Bind Head Tapping Screw-B	A3.0X8 MFZN2BL			01
C60	VC362700	Ferrite Core	FR25/15/12-1400L			04
C70	CB069250	Cord Holder	BK-1			01
C80	CB835590	Holder	TMS-20			01

*: New Parts

RANK: Japan only

■ LCD ASSEMBLY

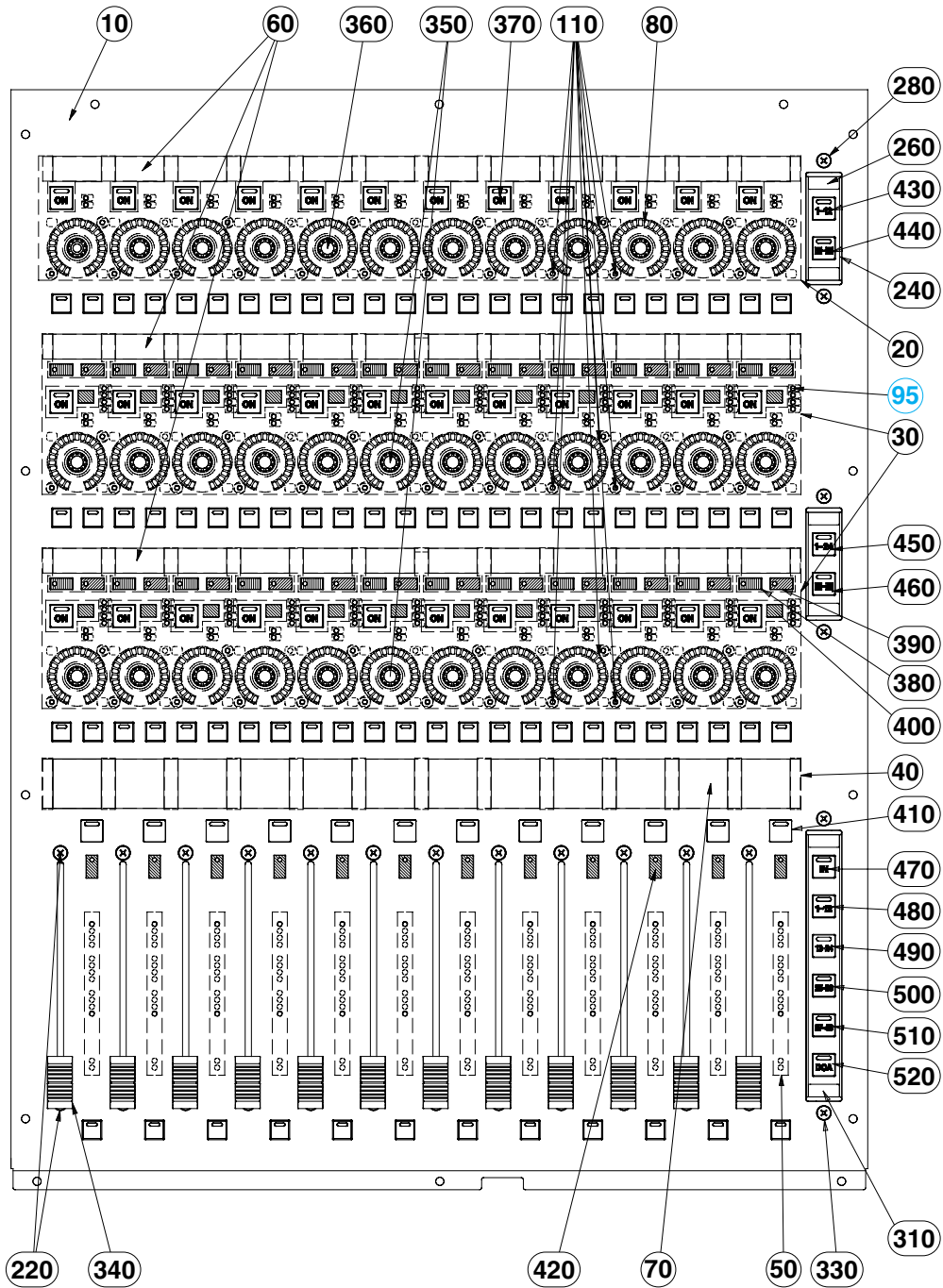


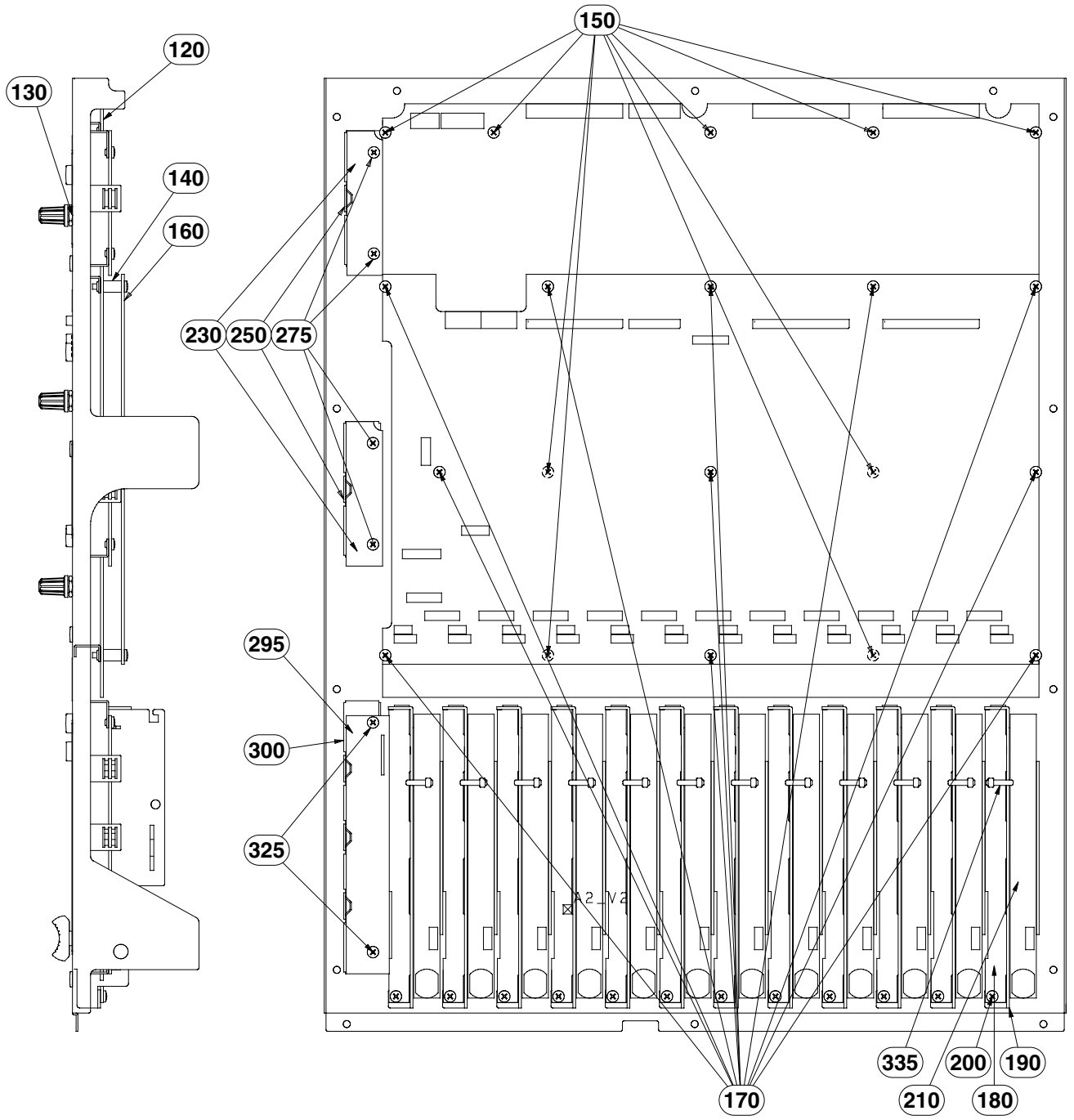
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		LCD ASSEMBLY		CS1D		
	--	LCD Assembly		(V473380)		
* 10	V4187600	LCD Case	UPPER			40
15	--	Gasket	LARGE	(V573540)		
16	--	Gasket	SMALL	(V573550)	2	
* 20	V4450200	LCD Window				11
22	--	Tape, LCD	L	(V672720)		
24	--	Tape, LCD	S	(V672730)		
26	--	Mash, LCD		(V667850)		
* 30	V4739100	LCD	NL8060AC31-12G			91
40	EG330290	Bind Head Screw	SP 3.0X8 MFZN2Y		4	01
45	--	PET Sheet	LCD	(V560230)	2	
50	VQ717600	Bind Head Screw	2.0X3 MFZN2Y		2	01
* 60	V47325S0	Circuit Board	CS LCDIF (CSCOM)			
70	VB659000	Bind Head Screw	3.0X8 MFZN2BL		2	01
* 80	V47326S0	Circuit Board	CS LCDC (CSCOM)			
90	VB659000	Bind Head Screw	3.0X8 MFZN2BL		2	01
105	CB817510	Cord Binder	S-14B		3	03
106	VP156600	Bind Head Tapping Screw-B	A3.0X6 MFZN2BL		2	01
107	VC362700	Ferrite Core	FR25/15/12-1400L		3	04
110	--	LCD Case	LOWER	(V418770)		
120	VP156600	Bind Head Screw	A3.0X6 MFZN2BL		12	01
125	--	LCD Shield		(V573560)		
150	--	Angle, Bracket		(V506170)		
160	EG340360	Bind Head Screw	4.0X8 MFZN2BL		4	01
170	--	Angle, Bracket		(V490820)		
180	VP156800	Bind Head Screw	A4.0X8 MFZN2BL		4	01
185	--	Angle, Bracket		(V573580)	2	
* 190	V4742400	Hinge	TH-122-1A T=18KG		2	10
200	VB764100	Bind Head Tapping Screw-B	SP4.0X12 MFZN2BL		4	01
210	--	Connector Assembly	IL3P&PH2P #28	(V504390)		
230	--	Connector Assembly	PH12P&14P&15P	(V566760)		
260	--	Holder, Band	TMS-20	(V563110)		
270	VP156600	Bind Head Screw	A3.0X6 MFZN2BL		2	01
280	--	Gasket		(V553280)		
290	--	Tape	1245 25.4X16.4	(2205340)		
300	--	Gasket	A	(V608370)		
310	--	Gasket	A	(V608380)		

*: New Parts

RANK: Japan only

CONTROL PANEL ASSEMBLY MASTER



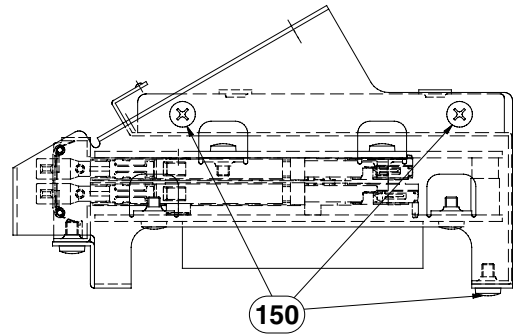
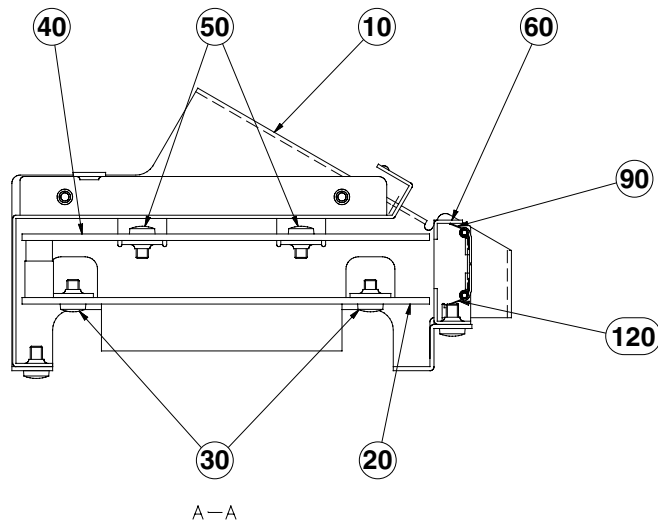
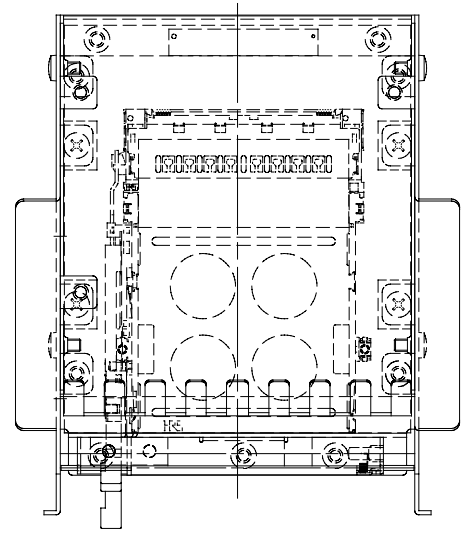
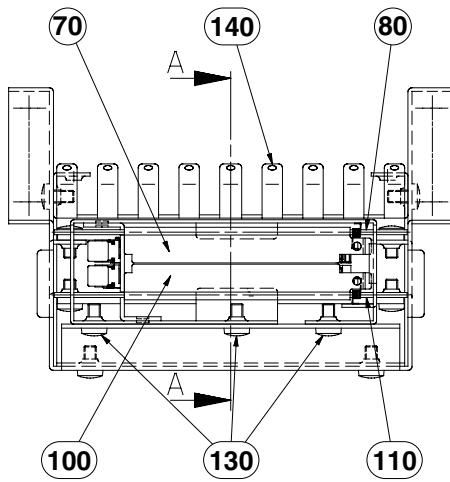


REFNO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		CONTROL PANEL ASSEMBLY	MASTER	CS1D		
*	V4608000	Control Panel Assembly	MASTER			
* 10	V4375400	Control Panel	MASTER			32
20	--	Tape	MAS 1	(V437560)		
30	--	Tape	MAS 2	(V437570)	2	
40	--	Tape	MAS 3	(V437580)		
50	--	Tape	IN 2	(V437410)		
* 60	V4374600	Window	IN 1	Name indicators(MTRX,MIX)	3	07
* 70	V4376300	Window	MASTER	Name indicators(DCA 1-12)		08
* 80	V4907600	Lens, Level Meter		LEVEL/BAL LED(MATRIX,MIX)	36	05
90	V4895600	Lens	x14		12	03
95	V4895800	Lens	x2	9-12,RCL,MUTE (MATRIX,MIX	12	03
* 110	V3885400	Lens		PAIR,INS (MATRIX,MIX)	54	03
* 120	V41116S0	Circuit Board	CS PNM1			
* 125	V6568900	Toothed Lock Washer	B 7.2X9.8 SUSZNBL			36
130	ES200180	Hexagonal Nut	7.0 10X2 MFZN2BL		36	01
140	--	Spacer, P.C.B.	TO9-15Y	(2400120)	5	
150	EG330360	Bind Head Screw	3.0X6 MFZN2BL		9	01
* 160	V41118S0	Circuit Board	CS MSCPU			
170	EG330360	Bind Head Screw	3.0X6 MFZN2BL		11	01
* 180	V50491S0	Circuit Board	CS PNM2		12	
190	--	Angle	2	(V437600)	12	
200	EG330360	Bind Head Screw	3.0X6 MFZN2BL		12	01
* 210	V5077500	Fader Assembly	3P		12	16
220	VS182000	Flat Head Screw	B3.0X6 MFZN2BL		24	01
* 230	V47314S0	Circuit Board	CS PNM3 (CMCOM)		2	
240	--	Plate, Panel 2		(V437720)	2	
250	--	Angle		(V437750)	2	
260	--	Holder, Escutcheon		(V419240)	4	
275	EG330360	Bind Head Screw	3.0X6 MFZN2BL		4	01
280	VL668700	Flat Head Screw	3.0X16 MFZN2BL		4	01
285	--	Plate, Panel 6		(V437740)		
* 295	V47316S0	Circuit Board	CS PNM4 (CMCOM)			
300	--	Angle		(V437760)		
310	--	Holder, Escutcheon		(V419240)	2	
325	EG330360	Bind Head Screw	3.0X6 MFZN2BL		2	01
330	VL668700	Flat Head Screw	3.0X16 MFZN2BL		2	01
335	CB069250	Cord Holder	BK-1		12	01
* 340	V4622100	Fader Knob	S-GY / D-GY	DCA 1-12	12	02
* 350	V4622300	Encoder Knob	BE /L-GY	MIX 1-24	24	01
* 360	V4622500	Encoder Knob	M-GY /L-GY	MATRIX 1-12	12	01
* 370	V4624800	Switch Knob	LENS/S-GY /ON	ON(MATRIX 1-12, MIX 1-24)	36	03
* 380	V4623500	Switch Knob	LENS/1D_RED	TO ST (MIX 1-24)	24	01
390	V4623700	Switch Knob	LENS/M-GY	TO MTRX (MIX 1-24)	24	01
* 400	V3744600	Switch Knob	Y-BR	DCA (MIX 1-24)	24	02
* 410	V4623100	Switch Knob	LENS/M-GY	MUTE (DCA 1-12)	12	01
* 420	V4623600	Switch Knob	LENS/Y-BR	ASSIGN DCA (DCA 1-12)	12	01
* 430	V4624900	Switch Knob	LENS/M-GY /1-12	MATRIX LAYER 1-12		03
* 440	V4625000	Switch Knob	LENS/M-GY /13-24	MATRIX LAYER 13-24		03
* 450	V4626700	Switch Knob	LENS/ BE /1-24	MIX LAYER 1-24		03
* 460	V4626800	Switch Knob	LENS/ BE /25-48	MIX LAYER 25-48		03
* 470	V5077200	Switch Knob	LENS/S-GY /IN	FADER STATUS IN		03
* 480	V4626900	Switch Knob	LENS/ BE /1-12	FADER STATUS 1-12		03
* 490	V4627000	Switch Knob	LENS/ BE /13-24	FADER STATUS 13-24		03
* 500	V4627200	Switch Knob	LENS/ BE /25-36	FADER STATUS 25-36		03
* 510	V4627300	Switch Knob	LENS/ BE /37-48	FADER STATUS 37-48		03
520	V4627800	Switch Knob	LENS/Y-BR	FADER STATUS DCA		03
1000	--	Cable, FFC	P=1.25-K-20-180	(V503660)		
1010	--	Cable, FFC	P=1.25-K-40-180	(V503830)	3	
1020	--	Connector Assembly	5480&5480 4P	(V507760)	12	

*: New Parts

RANK: Japan only

PCMCIA ASSEMBLY

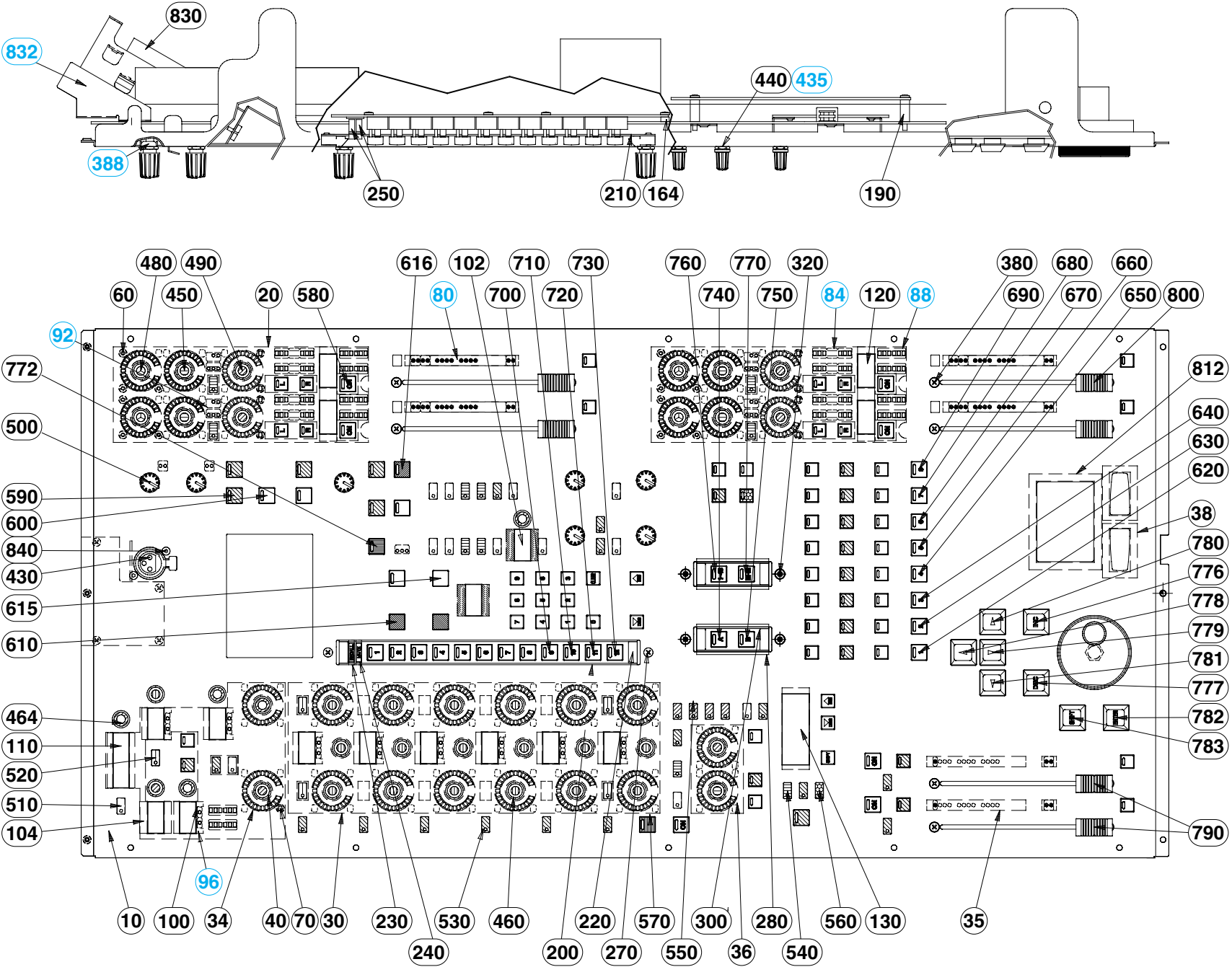


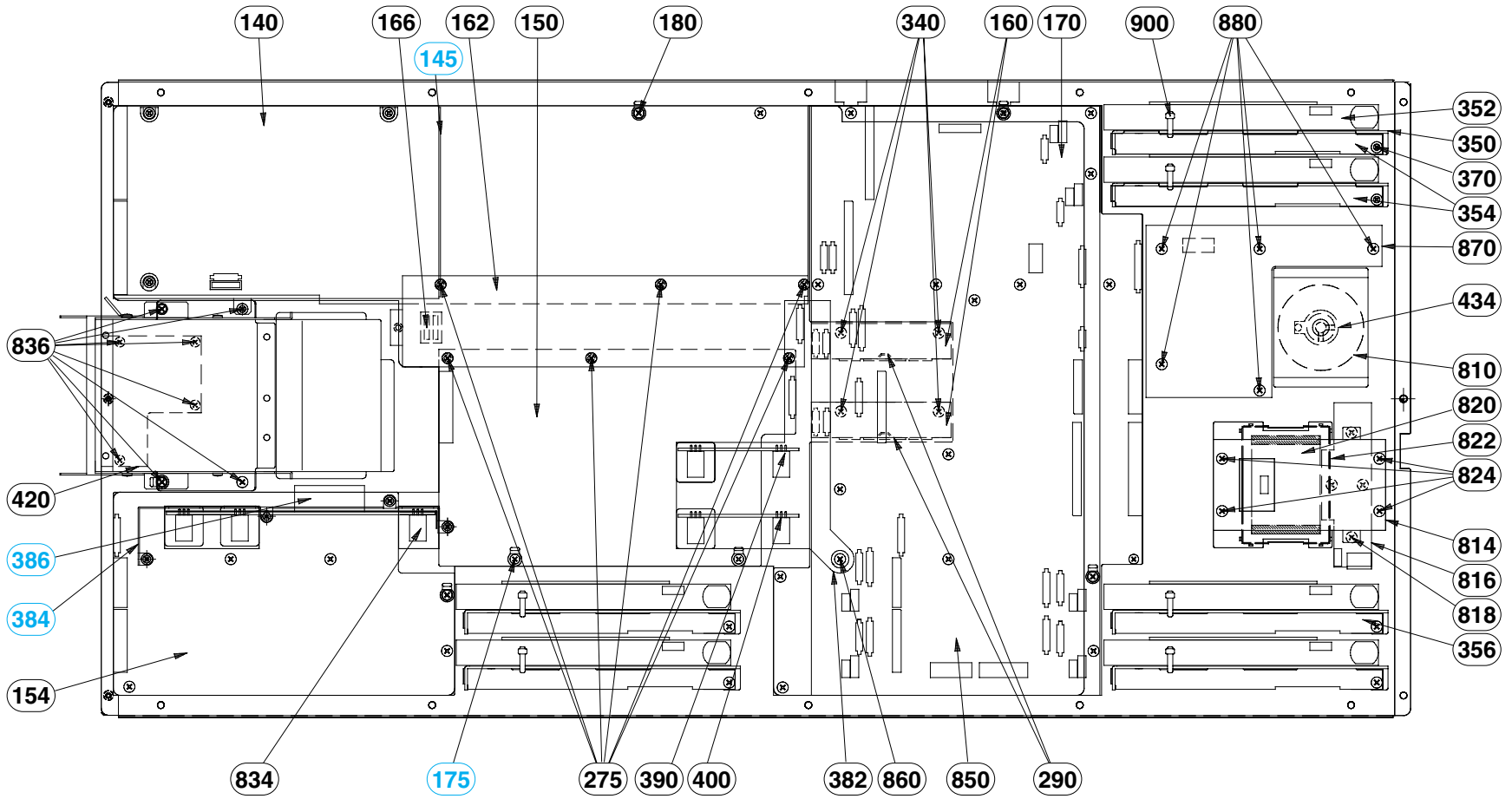
REF. NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	V46938S0	PCMCIA Assembly		CS1D		
*	10	--		(V415750)		
*	20	V45143S0	Circuit Board	CS CRDC1		
*	30	EG330360	Bind Head Screw	3.0X6 MFZN2BL	4	01
*	40	V45144S0	Circuit Board	CS CRDC2		
*	50	EG330360	Bind Head Screw	3.0X6 MFZN2BL	4	01
*	60	--	Sub-bracket	(V415770)		
*	70	V4702100	Cover	UPPER		
*	80	--	Shaft	(V415940)		
*	90	V4159300	Coil Spring			07
*	100	V4702400	Cover	LOWER		
*	110	--	Shaft	(V415940)		
*	120	V4159300	Coil Spring			07
*	130	VP156600	Bind Head Screw	A3.0X6 MFZN2BL	3	01
*	140	--	Angle	(V438340)		
*	150	VP156600	Bind Head Screw	A3.0X6 MFZN2BL	6	01

*: New Parts

RANK: Japan only

CONTROL PANEL ASSEMBLY OUT SEL





REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		CONTROL PANEL ASSEMBLY	OUT SEL	CS1D		
*	V4608300	Control Panel Assembly	OUT SEL			
* 10	V4380100	Control Panel	OUT SEL			46
20	--	Tape	OS 1	(V437940)	2	
30	--	Tape	OS 2	(V437950)		
34	--	Tape	OS 3	(V509450)		
35	--	Tape	IN 2	(V437410)		
36	--	Tape	OS 4	(V567410)		
38	--	Sheet		(V567400)	2	
* 40	V4907600	Lens, Level Meter	25P	GAIN,THR,Q,LEVEL,MIX,PAN	28	05
* 60	V3885400	Lens		STATUS L/R,ON (ST IN 1-8)	12	03
* 70	V3875700	Lens		CLIP L/R (ST IN 1-8)	9	02
				PRE CLIP (SELECTED O.CH.)		
80	V4895600	Lens	x14		5	03
84	V4895400	Lens	x3	COMP,GATE,CLIP(ST IN 1-8)	8	02
88	V4895500	Lens	x6	GR,POST (COMPRESSOR)	10	02
92	V4895700	Lens	x5		5	03
96	V4895800	Lens	x2	DCA 1-12,SAFE (ST IN 1-8)	10	03
				INS,SAFE (ST OUTPUT A/B)		
* 100	V4379700	Window, 7-seg.	3	Value indicators	9	05
* 102	V5096700	Window, 7-seg.	3A	SCENE No.,Value indicator	2	06
* 104	V5221800	Window, 7-seg.	3B	Value indicator(RATIO)		06
* 110	V4380000	Window, 7-seg.	4	Value indicator(DELAY)		05
* 120	V4578100	Window, Name	OS	Name indicators(ST IN 1-8)	2	06
* 130	V4378400	Window, CH-SEL		Name/No.indicator(CH.SEL.		05
* 140	V43334S0	Circuit Board	CS PNOS1L			
145	--	Shield, Panel		(V701710)		
* 150	V44526S0	Circuit Board	CS PNOS1C (CMCOM)			
* 154	V44527S0	Circuit Board	CS PNOS1R			
* 160	V50492S0	Circuit Board	CS PNOS4 (OSCOM)		2	
* 162	V47318S0	Circuit Board	CS PNOS3 (CMCOM)			
164	--	Spacer	DR	(V508700)	6	
166	--	Shield, Mute		(V526180)		
* 170	V43335S0	Circuit Board	CS PNOS2 (OSCOM)			
175	CB817510	Cord Binder	S-14B		8	03
180	EG330360	Bind Head Screw	3.0X6 MFZN2BL		30	01
190	VN045700	Spacer, P.C.B.	TO9-15Y		4	02
200	--	Plate, Panel 12		(V438020)		
210	--	Angle		(V438030)		
220	--	Holder, Escutcheon		(V419240)	2	
* 230	V4604400	Window, Recall		RECALL(SCENE MEMORY)		09
* 240	V4604300	Window, Mute		MUTE(SCENE MEMORY)		
250	--	Holder, Lens		(V460450)	2	
* 270	V5993400	Flat Head Screw	3.0X12 MFZN2BL		2	
275	EG330320	Bind Head Screw	3.0X12 MFZN2BL		6	01
280	--	Plate, Panel 2		(V437720)	2	
290	--	Angle		(V437750)	2	
300	--	Holder, Escutcheon		(V419240)	4	
320	VL668700	Flat Head Screw	3.0X16 MFZN2BL		4	01
340	EG330360	Bind Head Screw	3.0X6 MFZN2BL		4	01
350	--	Angle, Fader		(V437520)	6	
* 352	V5077500	Fader Assembly	3P	ST IN 1-8, ST OUTPUT A/B	6	16
* 354	V47321S0	Circuit Board	CS PNOS5 (CMCOM)		2	
* 356	V50478S0	Circuit Board	CS PNI2		4	
360	--	Connector Assembly	5480&5480 4P	(V507760)	6	
370	EG330360	Bind Head Screw	3.0X6 MFZN2BL		6	01
380	VS182000	Flat Head Screw	B3.0X6 MFZN2BL		12	01
* 382	V4858300	Protect, P.C.B.	OS			09
384	--	Angle	HPOS	(V612430)		
386	--	Protect, P.C.B.	HP-VR	(V616660)		
388	--	Spacer, VR		(V679740)	7	
* 390	V66739S0	Circuit Board	CS HMOVOLA2 (HPCOM2)			
* 400	V66740S0	Circuit Board	CS HMOVOLB2 (HPCOM2)			
* 420	V66741S0	Circuit Board	CS TB1-2 (HPCOM2)			
* 430	V66742S0	Circuit Board	CS TB1CAN2 (HPCOM2)			
* 434	V5077400	Encoder Assembly	REC & PH4P	DATA		20
* 435	V6568900	Toothed Lock Washer	B		47	
440	ES200180	Hexagonal Nut	7.0 10X2 MFZN2BL		47	01
* 450	V3744200	Encoder Knob	1D_RED/L-GY	PAN(ST IN), PAN/BAL(OUTP)	5	01
* 460	V4622600	Encoder Knob	GY/L-GY	EQUALIZER HIGH-SUB LOW	19	01

*: New Parts

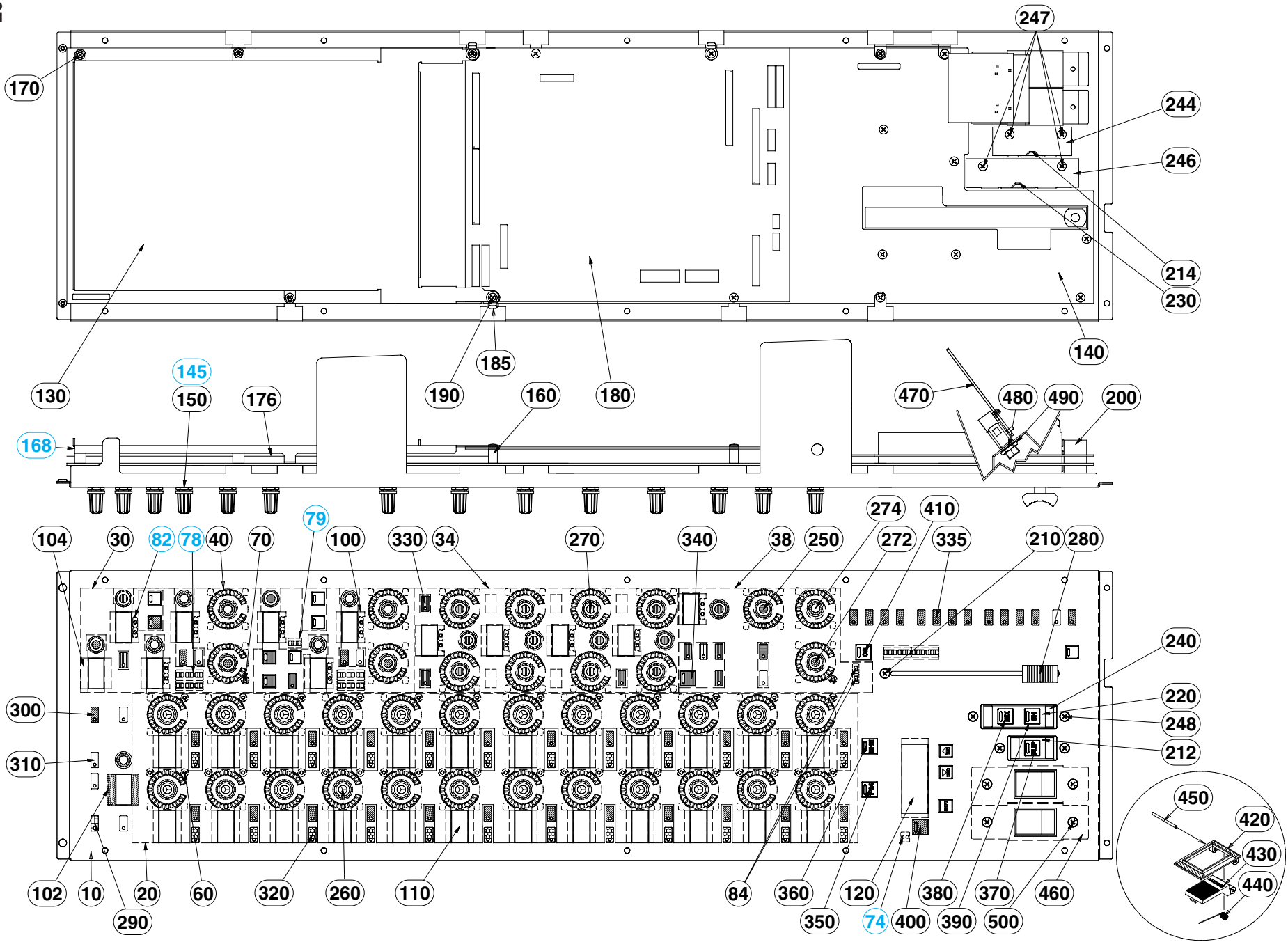
RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* 464	V5270900	Encoder Knob	L-GY /M-GY	FILTER FREQ.(COMPRESSOR)	5	01
* 480	V4622300	Encoder Knob	BE /L-GY	TIME encoders,THR	4	01
* 490	V4622500	Encoder Knob	M-GY /L-GY	MIX(ST IN 1-8)	7	01
500	VM563500	Knob	S-GY /M-GY	GAIN(ST IN),OUTPUT LEVEL		
* 510	V3744400	Switch Knob	LENS/S-GY	RATIO,GAIN(COMPRESSOR)	7	03
				LEVEL,PHONES	14	01
* 520	V4624100	Switch Knob	LENS/ GR	ON,INSERT,RECALL,2TR IN,		
* 530	V4623700	Switch Knob	LENS/M-GY	DEFINE	5	01
				ON,<,>,LPF,HPF	15	01
				LINK,BYPASS,TO MTRX,MUTE,		
				MATRIX,MONO,MONITOR A,		
				L/R MONO		
* 540	V4623500	Switch Knob	LENS/1D_RED	TO ST,ST,ST A/B,	10	01
* 550	V4623600	Switch Knob	LENS/Y-BR	9,10,11,12 (DCA)	4	01
* 560	V4623800	Switch Knob	LENS/ BE	MIX(CHANNEL SELECT)		01
* 570	V4623000	Switch Knob	LENS/ GR	EQ ON(EQUALIZER)		01
* 580	V4624800	Switch Knob	LENS/S-GY /ON	ON(STEREO,OUTPUT,ST IN)	7	03
* 590	V4623100	Switch Knob	LENS/M-GY	CH.COPY,TO MON B,TB OUT,	6	01
				OSC OUT,INP.AFL,OUTP.PFL		
* 600	V3744300	Switch Knob	LENS/M-GY	TB ON,OSC ON,LAST CUE,	4	01
				PREVIEW		
* 610	V4623200	Switch Knob	M-GY /M-GY	RECALL UNDO,RECALL	2	02
* 615	V5563300	Switch Knob	S-GY /S-GY	STORE(SCENE MEMORY)		02
* 616	V4623300	Switch Knob	LENS/Y-BR	DCA PRE PAN(CUE)		01
* 620	V4625100	Switch Knob	LENS/S-GY /1	1(SCENE MEM.,USER DEFINE)	2	03
* 630	V4625200	Switch Knob	LENS/S-GY /2	2(SCENE MEM.,USER DEFINE)	2	03
* 640	V4625300	Switch Knob	LENS/S-GY /3	3(SCENE MEM.,USER DEFINE)	2	03
* 650	V4625400	Switch Knob	LENS/S-GY /4	4(SCENE MEM.,USER DEFINE)	2	03
* 660	V4625500	Switch Knob	LENS/S-GY /5	5(SCENE MEM.,USER DEFINE)	2	03
* 670	V4625600	Switch Knob	LENS/S-GY /6	6(SCENE MEM.,USER DEFINE)	2	03
* 680	V4625700	Switch Knob	LENS/S-GY /7	7(SCENE MEM.,USER DEFINE)	2	03
* 690	V4625800	Switch Knob	LENS/S-GY /8	8(SCENE MEM.,USER DEFINE)	2	03
* 700	V4625900	Switch Knob	LENS/S-GY /9	9 (SCENE MEMORY)		03
* 710	V4626000	Switch Knob	LENS/S-GY /10	10(SCENE MEMORY)		03
* 720	V4626100	Switch Knob	LENS/S-GY /11	11(SCENE MEMORY)		03
* 730	V4626200	Switch Knob	LENS/S-GY /12	12(SCENE MEMORY)		03
* 740	V4627500	Switch Knob	LENS/M-GY /A	A(ENGINE)		03
* 750	V4626300	Switch Knob	LENS/S-GY /B	B(ENGINE)		03
* 760	V4627700	Switch Knob	LENS/M-GY /1-48	1-48 (GLOBAL LAYER)		03
* 770	V4626400	Switch Knob	LENS/S-GY /49-96	49-96(GLOBAL LAYER)		03
* 772	V5296800	Switch Knob	LENS/RED	SOLO(CUE)		01
776	V5558500	Knob	INC	INC/OK		03
777	V5558600	Knob	DEC	DEC/CANCEL		03
778	V5558700	Knob	UP	Cursor Up		03
779	V5558800	Knob	DOWN	Curcor Down		03
780	V5558900	Knob	RIGHT	Curcor Right		03
781	V5559000	Knob	LEFT	Curcor Left		03
782	V5559100	Knob	ENTER	ENTER		03
783	V5559200	Knob	SHIFT	SHIFT/GRAB		03
* 790	V4622200	Fader Knob	BL/1D-RE	ST OUTPUT A/B	2	02
* 800	V5270800	Fader Knob	BL/M-GY	ST IN 1-8	4	
* 810	V5239200	Wheel Assembly		DATA		16
812	--	Tape		(V551740)		
814	--	Sub Chassis		(V547930)		
* 816	V5049800	Circuit Board	CS TPSW			
818	EG330360	Bind Head Screw	3.0X6 MFZN2BL		4	01
* 820	V4748500	Glide Point				14
822	--	Insulation Sheet		(V547940)		
824	EG330360	Bind Head Screw	3.0X6 MFZN2BL		4	01
826	VA126100	Filament Tape	12X50		2	03
830	--	PCMCIA Assembly		(V469380)		
832	--	Shield Cover		(V614610)		
* 834	V66744S0	Circuit Board	CS CUTBVL2 (HPCOM2)			
836	EG330360	Bind Head Screw	3.0X6 MFZN2BL		8	01
840	V4750100	Cup Screw	3.0X6 MFZN2BL		2	01
* 850	V43336S0	Circuit Board	CS OSCPU			
860	EG330360	Bind Head Screw	3.0X6 MFZN2BL		5	01
* 870	V44594S0	Circuit Board	CS PNOS6 (CMCOM)			
880	EG330360	Bind Head Screw	3.0X6 MFZN2BL		5	01
890	VA126100	Filament Tape	12X50		7	03

*: New Parts

RANK: Japan only

CONTROL PANEL ASSEMBLY IN SEL

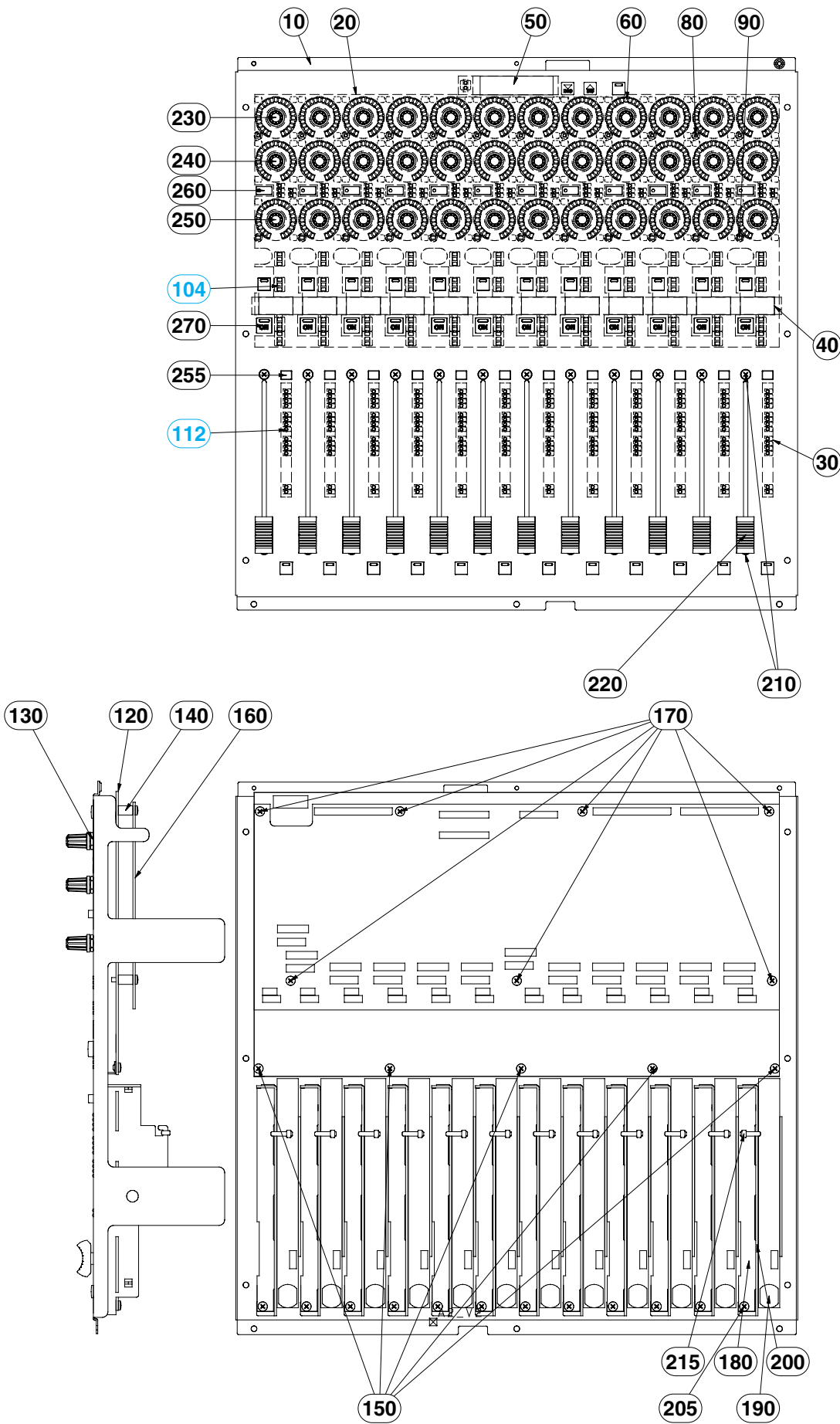


REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		CONTROL PANEL ASSEMBLY	IN SEL	CS1D		
*	V4608200	Control Panel Assembly	IN SEL			
* 10	V4379000	Control Panel	IN SEL			23
20	--	Tape	IN SEL 1	(V437790)		
30	--	Tape	IN SEL 2	(V437800)		
34	--	Tape	IN SEL 3	(V509370)		
38	--	Tape	IN SEL 4	(V509380)		
* 40	V4907600	Lens, Level Meter	25P	LEVEL,PAN,GAIN,THR,RANGE, Q,ATTENUATOR	39	05
* 60	V3885400	Lens		FIX,PAIR (MIX 1-48)	36	03
* 70	V3875700	Lens		PRE CLIP(COMPRESSOR), CLIP(GAIN)	2	02
* 74	V4895700	Lens	x5			03
* 78	V4895500	Lens	x3	GR/POST Meter,SIG Level,	6	02
* 79	V4895400	Lens	x3	Level Meter(SEL,INPUT CH.		02
* 82	V4895800	Lens	x2	Hz,kHz,msec,sec,WIDTH,KNE	11	03
* 84	V5606700	Lens	x1	CLIP EQ/CH(SEL.INPUT CH.)	2	03
* 100	V4379700	Window, 7-seg.	3	Value indicators	11	05
* 102	V5096700	Window, 7-seg.	3A	Value indicator(DELAY)		06
* 104	V5221800	Window, 7-seg.	3B	Value indicator(RATIO)		06
* 110	V4379800	Window, Name		Name indicators(MIX 1-48)	24	04
* 120	V4378400	Window, CH-SEL		Name/No.indicator(CH.SEL.		05
* 130	V41113S0	Circuit Board	CS PNIS1			
* 140	V50488S0	Circuit Board	CS PNIS2 (ISCOM)			
* 145	V6568900	Toothed Lock Washer	7.2X9.8 SUSZNBL			39
150	ES200180	Hexagonal Nut	7.0 10X2 MFZN2BL			39
160	--	Spacer, P.C.B.	TO9-15Y	(2400120)	4	01
168	--	Shield, Panel	IN SEL	(V710610)		
170	EG330360	Bind Head Screw	3.0X6 MFZN2BL		13	01
176	--	Protect, Circuit Board	IN SEL	(V486670)		
* 180	V41115S0	Circuit Board	CS ISCPU			
185	CB817510	Cord Binder	S-14B		3	03
190	EG330360	Bind Head Screw	3.0X6 MFZN2BL		4	01
* 200	V5077500	Fader Assembly	3P			16
204	--	Connector Assembly	5480&5480 4P	(V507760)		
210	VS182000	Flat Head Screw	B3.0X6 MFZN2BL		2	01
212	--	Plate, Panel 1		(V437870)		
214	--	Angle		(V437880)		
220	--	Plate, Panel 2		(V437720)		
230	--	Angle		(V437750)		
240	--	Holder, Escutcheon		(V419240)	4	
* 244	V50489S0	Circuit Board	CS PNIS3 (ISCOM)			
* 246	V50490S0	Circuit Board	CS PNIS4 (ISCOM)			
247	EG330360	Bind Head Screw	3.0X6 MFZN2BL		4	01
248	VL668700	Flat Head Screw	3.0X16 MFZN2BL		4	01
* 250	V3744200	Encoder Knob	1D_RED/L-GY	PAN(STEREO)		01
* 260	V4622300	Encoder Knob	BE /L-GY	LEVEL/PAN(MIX 1-48)	24	01
* 270	V4622600	Encoder Knob	GR /L-GY	FREQUENCY,Q,GAIN	18	01
* 272	V4622500	Encoder Knob	M-GY /L-GY	RANGE,GAIN(COMPRES.,GAIN)	4	01
* 274	V5270900	Encoder Knob	L-GY /M-GY	TIME,RATIO,THR,ATTENUATOR	8	01
* 280	V3744100	Fader Knob	S-GY /M-GY	SELECTED INPUT CHANNEL		02
* 290	V4624200	Switch Knob	LENS/ OR	+48V		01
* 300	V4623700	Switch Knob	LENS/M-GY	A(INPUT),PRE(MIX 1-48)	28	01
				LINK,MUTE(SAFE)		
* 310	V3744400	Switch Knob	LENS/S-GY	Phase,INSERT_ON,B(INPUT), FIXED MIX PAN,RECALL	8	01
* 320	V4623800	Switch Knob	LENS/ BE	ON(MIX 1-48)	24	01
* 330	V4624100	Switch Knob	LENS/ GR	ON(FILTER),TO ST(STEREO), LPF,HPF,18/12/6dB (EQ.), 1-12(DCA)	9	01
* 335	V4623600	Switch Knob	LENS/Y-BR		12	01
* 340	V4623000	Switch Knob	LENS/ GR	EQ ON		01
* 350	V4626700	Switch Knob	LENS/ BE /1-24	LAYER 1-24 (MIX SEND)		03
* 360	V4626800	Switch Knob	LENS/ BE /25-48	LAYER 25-48(MIX SEND)		03
* 370	V4626500	Switch Knob	LENS/S-GY /FLIP	FLIP(MODULE FLIP)		03
* 380	V4627400	Switch Knob	LENS/ BE /MIX	MIX(FADER FLIP)		03
* 390	V4626600	Switch Knob	LENS/S-GY /CH	CH(FADER FLIP)		03
* 400	V4623100	Switch Knob	LENS/M-GY	CHANNEL COPY(CH.SELECT)		01
* 410	V4624800	Switch Knob	LENS/S-GY /ON	ON(SELECTED INPUT CHANNEL		03
420	VK476500	Escutcheon	(PHONES)		2	04
430	VK476600	Cover			2	04

*: New Parts

RANK: Japan only

CONTROL PANEL ASSEMBLY IN



REFNO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		CONTROL PANEL ASSEMBLY	IN	CS1D		
*	V4607900	Control Panel Assembly	IN			
* 10	V4375000	Control Panel	IN			27
20	--	Tape	IN1	(V437390)		
30	--	Tape	IN2	(V437410)		
* 40	V4374600	Window, IN1		Input Name		07
* 50	V4374700	Window, IN2		NAME/NUMBER(MIX SEND)		05
* 60	V4907600	Lens, Level Meter	25P	MIX,PAN,GAIN(Input Ch)	36	05
* 80	V3885400	Lens		ON(MIX)	12	03
* 90	V3875700	Lens		CLIP(GAIN)	12	02
100	V4895600	Lens	x14		12	03
104	V4895400	Lens	x3	+/THR/-(COMP,GATE),Meter	12	02
* 108	V4895500	Lens	x6		12	02
112	V4895700	Lens	x5	+48V,INS,Phase,1-12(DCA), RCL,MUTE (SAFE)	13	03
* 120	V41110S0	Circuit Board	CS PNI1			
* 125	V6568900	Toothed Lock Washer	B		36	
130	ES200180	Hexagonal Nut	7.0 10X2 MFZN2BL		36	01
140	--	Spacer, P.C.B.	TO9-15Y	(2400120)	7	
150	EG330360	Bind Head Screw	3.0X6 MFZN2BL		5	01
* 160	V41112S0	Circuit Board	CS INCPU			
170	EG330360	Bind Head Screw	3.0X6 MFZN2BL		7	01
* 180	V50478S0	Circuit Board	CS PNI2		12	
* 190	V5077500	Fader Assembly	3P		12	16
194	--	Connector Assembly	5480&5480 4P	(V507760)	12	
200	--	Angle, Fader 1		(V437520)	12	
205	EG330360	Bind Head Screw	3.0X6 MFZN2BL		12	01
210	VS182000	Flat Head Screw	B3.0X6 MFZN2BL		24	01
215	CB069250	Cord Holder	BK-1		12	01
* 220	V3744100	Fader Knob	S-GY /M-GY	Input Fader	12	02
* 230	V4622300	Encorder Knob	BE /L-GY	MIX	12	01
* 240	V3744200	Encorder Knob	1D_RED/L-GY	PAN	12	01
* 250	V4622500	Encorder Knob	M-GY /L-GY	GAIN	12	01
* 255	V3744600	Switch Knob	Y-BR	DCA	12	02
* 260	V4623500	Switch Knob	LENS/1D_RED	TO ST	12	01
* 270	V4624800	Switch Knob	LENS/S-GY /ON	ON	12	03
1000	--	Cable, FFC	P=1.25-K-40-100	(V503790)	3	

*: New Parts

RANK: Japan only

ELECTRICAL PARTS

REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
		ELECTRICAL PARTS	CS1D		
*	--	Circuit Board	LMY4AD AD2	(V509980)(XW291A0)	
*	V66737S0	Circuit Board	CS ADA2	(XZ523A0)	
	--	Circuit Board	CS AEI	(V438150)(XW566A0)	
	--	Circuit Board	CS CCAS	(V504990)(XW667B0)	
	--	Circuit Board	CS EIF	(V451380)(XW667B0)	
	--	Circuit Board	CS CIO	(V438180)(XW567A0)	
	--	Circuit Board	CS CMU1	(V451320)(XW662A0)	
	--	Circuit Board	CS CMU2	(V451330)(XW663A0)	
*	V50656S0	Circuit Board	CS CNDS1	(XY193A0)	
*	V43340S0	Circuit Board	CS CNDS2	(XW538A0)	
*	V50657S0	Circuit Board	CS CNDS3	(XY194A0)	
*	V45143S0	Circuit Board	CS CRDC1	(XW671A0)	
*	V45144S0	Circuit Board	CS CRDC2	(XW672A0)	
*	V66744S0	Circuit Board	CS CUTBVL2(HPCOM2)	(XZ527A0)	
*	V66739S0	Circuit Board	CS HMOVLA2(HPCOM2)	(XZ527A0)	
*	V66740S0	Circuit Board	CS HMOVLB2(HPCOM2)	(XZ527A0)	
*	V66745S0	Circuit Board	CS PHNAB-2(HPCOM2)	(XZ527A0)	
*	V66741S0	Circuit Board	CS TB1-2 (HPCOM2)	(XZ527A0)	
*	V66742S0	Circuit Board	CS TB1CAN2(HPCOM2)	(XZ527A0)	
*	V55471S0	Circuit Board	CS DRL	(XW326C0)	
*	V45662S0	Circuit Board	CS DRN	(XW326C0)	
*	V47063S0	Circuit Board	CS DRS	(XW326C0)	
*	V41112S0	Circuit Board	CS INCPU	(XW317B0)	
*	V41115S0	Circuit Board	CS ISCPU	(XW320B0)	
*	V47045S0	Circuit Board	CS LAMPVR (CSCOM)	(XW354B0)	
*	V47326S0	Circuit Board	CS LCDC (CSCOM)	(XW354B0)	
*	V47325S0	Circuit Board	CS LCDIF (CSCOM)	(XW354B0)	
*	V41134S0	Circuit Board	CS MB22 (CSCOM)	(XW354B0)	
*	V45134S0	Circuit Board	CS MTG (CSCOM)	(XW354B0)	
*	V45136S0	Circuit Board	CS PNC2 (CSCOM)	(XW354B0)	
*	V47044S0	Circuit Board	CS PS2HP (CSCOM)	(XW354B0)	
*	V41133S0	Circuit Board	CS MB21	(XW355A0)	
*	V45140S0	Circuit Board	CS MB23	(XW669B0)	
	--	Circuit Board	CS MIO	(V438190)(XW568A0)	
*	V66735S0	Circuit Board	CS MO1-2 (MOCOM)	(XZ522A0)	
*	V66736S0	Circuit Board	CS MO2-2 (MOCOM)	(XZ522A0)	
*	V41118S0	Circuit Board	CS MSCPU	(XW323B0)	
*	V43337S0	Circuit Board	CS MT1	(XW535C0)	
*	V43338S0	Circuit Board	CS MT2	(XW536A0)	
*	V50497S0	Circuit Board	CS MT3	(XW536A0)	
*	V41132S0	Circuit Board	CS MTCPU	(XW353C0)	
*	V45142S0	Circuit Board	CS PCIF	(XW670C0)	
	--	Circuit Board	CS PNC1	(V451350)(XW665B0)	
*	V41110S0	Circuit Board	CS PNI1	(XW315A0)	
*	V50478S0	Circuit Board	CS PNI2	(XW316A0)	
*	V41113S0	Circuit Board	CS PNIS1	(XW318A0)	
*	V50488S0	Circuit Board	CS PNIS2 (ISCOM)	(XW319A0)	
*	V50489S0	Circuit Board	CS PNIS3 (ISCOM)	(XW319A0)	
*	V50490S0	Circuit Board	CS PNIS4 (ISCOM)	(XW319A0)	
*	V41116S0	Circuit Board	CS PNM1	(XW321A0)	
*	V50491S0	Circuit Board	CS PNM2	(XW322A0)	
*	V47314S0	Circuit Board	CS PNM3 (CMCOM)	(XW635A0)	
*	V47316S0	Circuit Board	CS PNM4 (CMCOM)	(XW635A0)	
*	V44526S0	Circuit Board	CS PNOS1C (CMCOM)	(XW635A0)	
*	V47318S0	Circuit Board	CS PNOS3 (CMCOM)	(XW635A0)	
*	V47321S0	Circuit Board	CS PNOS5 (CMCOM)	(XW635A0)	
*	V44594S0	Circuit Board	CS PNOS6 (CMCOM)	(XW635A0)	
*	V43335S0	Circuit Board	CS PNOS2 (OSCOM)	(XW533A0)	
*	V50492S0	Circuit Board	CS PNOS4 (OSCOM)	(XW533A0)	
*	V43334S0	Circuit Board	CS PNOS1L	(XW532A0)	
*	V44527S0	Circuit Board	CS PNOS1R	(XW636A0)	
*	V43336S0	Circuit Board	CS OSCPU	(XW534B0)	
	--	Circuit Board	CS STI	(V411300)(XW351A0)	
	--	Circuit Board	CS STO1 (STCOM)	(V439750)(XW352A0)	
	--	Circuit Board	CS STO2 (STCOM)	(V411310)(XW352A0)	
*	V5049800	Circuit Board	CS TPSW	(XY488A0)	
C101	--	Circuit Board	LMY4AD AD2	(V509980)(XW291B0)	
	V5620900	Electrolytic Cap.	10.00 50.0V		

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C102	V5620900	Electrolytic Cap.	10.00 50.0V			
C111	UR847220	Electrolytic Cap.	22.00 25.0V			01
C114	UR837220	Electrolytic Cap.	22.00 16.0V			01
C122	UR857100	Electrolytic Cap.	10.00 35.0V			01
C123	UR857100	Electrolytic Cap.	10.00 35.0V			01
C131	UR837220	Electrolytic Cap.	22.00 16.0V			01
C133	UR837100	Electrolytic Cap.	10.00 16.0V			01
C200	V5620900	Electrolytic Cap.	10.00 50.0V			
C201	V5620900	Electrolytic Cap.	10.00 50.0V			
C209	UR847220	Electrolytic Cap.	22.00 25.0V			01
C212	UR837220	Electrolytic Cap.	22.00 16.0V			01
C220	UR857100	Electrolytic Cap.	10.00 35.0V			01
C221	UR857100	Electrolytic Cap.	10.00 35.0V			01
C229	UR837220	Electrolytic Cap.	22.00 16.0V			01
C231	UR837100	Electrolytic Cap.	10.00 16.0V			01
C303	V5829200	Electrolytic Cap.	100.00 20.0V			04
-304	V5829200	Electrolytic Cap.	100.00 20.0V			04
C305	V5829300	Electrolytic Cap.	100.00 16.0V			04
C306	V5829300	Electrolytic Cap.	100.00 16.0V			04
C401	V5620900	Electrolytic Cap.	10.00 50.0V			
C402	V5620900	Electrolytic Cap.	10.00 50.0V			
C411	UR847220	Electrolytic Cap.	22.00 25.0V			01
C414	UR837220	Electrolytic Cap.	22.00 16.0V			01
C422	UR857100	Electrolytic Cap.	10.00 35.0V			01
C423	UR857100	Electrolytic Cap.	10.00 35.0V			01
C431	UR837220	Electrolytic Cap.	22.00 16.0V			01
C433	UR837100	Electrolytic Cap.	10.00 16.0V			01
C500	V5620900	Electrolytic Cap.	10.00 50.0V			
C501	V5620900	Electrolytic Cap.	10.00 50.0V			
C509	UR847220	Electrolytic Cap.	22.00 25.0V			01
C512	UR837220	Electrolytic Cap.	22.00 16.0V			01
C520	UR857100	Electrolytic Cap.	10.00 35.0V			01
C521	UR857100	Electrolytic Cap.	10.00 35.0V			01
C529	UR837220	Electrolytic Cap.	22.00 16.0V			01
C531	UR837100	Electrolytic Cap.	10.00 16.0V			01
C702	UR847100	Electrolytic Cap.	10.00 25.0V			01
C705	UR847100	Electrolytic Cap.	10.00 25.0V			01
C752	UR847100	Electrolytic Cap.	10.00 25.0V			01
C755	UR847100	Electrolytic Cap.	10.00 25.0V			01
C802	UR847100	Electrolytic Cap.	10.00 25.0V			01
C805	UR847100	Electrolytic Cap.	10.00 25.0V			01
C852	UR847100	Electrolytic Cap.	10.00 25.0V			01
C855	UR847100	Electrolytic Cap.	10.00 25.0V			01
C900	UR838100	Electrolytic Cap.	100.00 16.0V			01
-903	UR838100	Electrolytic Cap.	100.00 16.0V			01
	UA354100	Mylar Capacitor	0.01 50V J			01
	UB050300	Monolithic Ceramic Cap.	SL 3P 50V C			01
	UB051100	Monolithic Ceramic Cap.	SL 10P 50V D			01
	UB051820	Monolithic Ceramic Cap.	SL 82P 50V J			01
	UB052100	Monolithic Ceramic Cap.	SL 100P 50V J			01
	UB052150	Monolithic Ceramic Cap.	SL 150P 50V J			01
	UB044100	Monolithic Ceramic Cap.	F 0.01 50V Z			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
	UB245220	Monolithic Ceramic Cap.	F 0.22 25V Z			01
CN300	VT640300	Receptacle	PHEC 100P SE			04
* D100	V3840700	Diode	RN731V			01
* D101	V3840700	Diode	RN731V			01
* D200	V3840700	Diode	RN731V			01
* D201	V3840700	Diode	RN731V			01
* D400	V3840700	Diode	RN731V			01
* D401	V3840700	Diode	RN731V			01
* D500	V3840700	Diode	RN731V			01
* D501	V3840700	Diode	RN731V			01
D700	VT332900	Diode	1SS355 TE-17			01
D750	VT332900	Diode	1SS355 TE-17			01
D800	VT332900	Diode	1SS355 TE-17			01
D850	VT332900	Diode	1SS355 TE-17			01
EM100	FZ006920	LC Filter	LS MT B271KB			01
EM101	FZ006920	LC Filter	LS MT B271KB			01
EM102	FZ006970	LC Filter	LS MT Y223NB			02

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
EM200	FZ006920	LC Filter	LS MT B271KB			01
EM201	FZ006920	LC Filter	LS MT B271KB			01
EM202	FZ006970	LC Filter	LS MT Y223NB			02
EM300	FZ006920	LC Filter	LS MT B271KB			01
EM301	FZ006920	LC Filter	LS MT B271KB			01
EM302	FZ006970	LC Filter	LS MT Y223NB			02
EM303	FZ006970	LC Filter	LS MT Y223NB			02
EM400	FZ006920	LC Filter	LS MT B271KB			01
EM401	FZ006920	LC Filter	LS MT B271KB			01
EM402	FZ006970	LC Filter	LS MT Y223NB			02
EM500	FZ006920	LC Filter	LS MT B271KB			01
EM501	FZ006920	LC Filter	LS MT B271KB			01
EM502	FZ006970	LC Filter	LS MT Y223NB			02
IC100	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
-102	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC103	XV065A00	IC	AK5392-VS-E2	ADC		12
IC201	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC202	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC203	XV065A00	IC	AK5392-VS-E2	ADC		12
IC300	XM167A00	IC	YAC509	ADFC		11
* IC301	XT800A00	IC	TC74VHC244F	BUFFER		03
* IC302	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC303	IS013810	IC	SN74LV138ANSR	DECODER		01
* IC304	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC305	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC306	IS000800	IC	HD74LV08AFPEL	AND		01
IC400	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
-402	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC403	XV065A00	IC	AK5392-VS-E2	ADC		12
IC501	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC502	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC503	XV065A00	IC	AK5392-VS-E2	ADC		12
IC600	XM167A00	IC	YAC509	ADFC		11
IC700	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC750	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC800	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC850	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
JK100	VL958600	XLM Connector	XLM-3-31PCV			08
JK200	VL958600	XLM Connector	XLM-3-31PCV			08
JK400	VL958600	XLM Connector	XLM-3-31PCV			08
JK500	VL958600	XLM Connector	XLM-3-31PCV			08
* L300	V2589800	Chip Inductance	BK2125LM751 2			01
* -303	V2589800	Chip Inductance	BK2125LM751 2			01
* LD100	V2451800	LED	SML-010LT			01
* LD101	V2451800	LED	SML-010LT			01
* LD200	V2451800	LED	SML-010LT			01
* LD201	V2451800	LED	SML-010LT			01
* LD400	V2451800	LED	SML-010LT			01
* LD401	V2451800	LED	SML-010LT			01
* LD500	V2451800	LED	SML-010LT			01
* LD501	V2451800	LED	SML-010LT			01
* LD700	V5074100	LED	PG1101F-TR GR			01
* LD750	V5074100	LED	PG1101F-TR GR			01
* LD800	V5074100	LED	PG1101F-TR GR			01
* LD850	V5074100	LED	PG1101F-TR GR			01
R102	VC328800	Metal Film Resistor	10.0K 1/4 F			01
R103	VC328800	Metal Film Resistor	10.0K 1/4 F			01
* R104	VC328300	Metal Film Resistor	6.2K 1/4 F			01
* R105	VC328300	Metal Film Resistor	6.2K 1/4 F			01
* R106	V5099500	Metal Film Resistor	120K 1/4 F			01
* R107	VC322700	Metal Film Resistor	39.00 1/4 F			01
R109	VC330000	Metal Film Resistor	33.0K 1/4 F			01
* R110	VC328300	Metal Film Resistor	6.2K 1/4 F			01
* R111	VC330100	Metal Film Resistor	36.0K 1/4 F			01
R112	VC327400	Metal Film Resistor	2.7K 1/4 F			01
* R113	VC323500	Metal Film Resistor	68.00 1/4 F			01
R114	VC328800	Metal Film Resistor	10.0K 1/4 F			01
* R115	VC327800	Metal Film Resistor	3.9K 1/4 F			01
* R116	VC329000	Metal Film Resistor	12.0K 1/4 F			01
R117	VC329400	Metal Film Resistor	18.0K 1/4 F			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R118	VC328800	Metal Film Resistor	10.0K 1/4 F			01
* R119	VC321700	Metal Film Resistor	15.00 1/4 F			01
R120	VC328800	Metal Film Resistor	10.0K 1/4 F			01
R121	VC328900	Metal Film Resistor	11.0K 1/4 F			01
R122	VC328800	Metal Film Resistor	10.0K 1/4 F			01
R123	VC328800	Metal Film Resistor	10.0K 1/4 F			01
R124	VC327400	Metal Film Resistor	2.7K 1/4 F			01
R202	VC328800	Metal Film Resistor	10.0K 1/4 F			01
R203	VC328800	Metal Film Resistor	10.0K 1/4 F			01
* R204	VC328300	Metal Film Resistor	6.2K 1/4 F			01
* R205	VC328300	Metal Film Resistor	6.2K 1/4 F			01
* R206	V5099500	Metal Film Resistor	120K 1/4 F			01
* R207	VC322700	Metal Film Resistor	39.00 1/4 F			01
R209	VC330000	Metal Film Resistor	33.0K 1/4 F			01
* R210	VC328300	Metal Film Resistor	6.2K 1/4 F			01
* R211	VC330100	Metal Film Resistor	36.0K 1/4 F			01
R212	VC327400	Metal Film Resistor	2.7K 1/4 F			01
* R213	VC323500	Metal Film Resistor	68.00 1/4 F			01
R214	VC328800	Metal Film Resistor	10.0K 1/4 F			01
* R215	VC327800	Metal Film Resistor	3.9K 1/4 F			01
* R216	VC329000	Metal Film Resistor	12.0K 1/4 F			01
R217	VC329400	Metal Film Resistor	18.0K 1/4 F			01
R218	VC328800	Metal Film Resistor	10.0K 1/4 F			01
* R219	VC321700	Metal Film Resistor	15.00 1/4 F			01
R220	VC328800	Metal Film Resistor	10.0K 1/4 F			01
R221	VC328900	Metal Film Resistor	11.0K 1/4 F			01
R222	VC328800	Metal Film Resistor	10.0K 1/4 F			01
R223	VC328800	Metal Film Resistor	10.0K 1/4 F			01
R224	VC327400	Metal Film Resistor	2.7K 1/4 F			01
R402	VC328800	Metal Film Resistor	10.0K 1/4 F			01
R403	VC328800	Metal Film Resistor	10.0K 1/4 F			01
* R404	VC328300	Metal Film Resistor	6.2K 1/4 F			01
* R405	VC328300	Metal Film Resistor	6.2K 1/4 F			01
* R406	V5099500	Metal Film Resistor	120K 1/4 F			01
* R407	VC322700	Metal Film Resistor	39.00 1/4 F			01
R409	VC330000	Metal Film Resistor	33.0K 1/4 F			01
* R410	VC328300	Metal Film Resistor	6.2K 1/4 F			01
* R411	VC330100	Metal Film Resistor	36.0K 1/4 F			01
R412	VC327400	Metal Film Resistor	2.7K 1/4 F			01
* R413	VC323500	Metal Film Resistor	68.00 1/4 F			01
R414	VC328800	Metal Film Resistor	10.0K 1/4 F			01
* R415	VC327800	Metal Film Resistor	3.9K 1/4 F			01
* R416	VC329000	Metal Film Resistor	12.0K 1/4 F			01
R417	VC329400	Metal Film Resistor	18.0K 1/4 F			01
R418	VC328800	Metal Film Resistor	10.0K 1/4 F			01
* R419	VC321700	Metal Film Resistor	15.00 1/4 F			01
R420	VC328800	Metal Film Resistor	10.0K 1/4 F			01
R421	VC328900	Metal Film Resistor	11.0K 1/4 F			01
R422	VC328800	Metal Film Resistor	10.0K 1/4 F			01
R423	VC328800	Metal Film Resistor	10.0K 1/4 F			01
R424	VC327400	Metal Film Resistor	2.7K 1/4 F			01
R502	VC328800	Metal Film Resistor	10.0K 1/4 F			01
R503	VC328800	Metal Film Resistor	10.0K 1/4 F			01
* R504	VC328300	Metal Film Resistor	6.2K 1/4 F			01
* R505	VC328300	Metal Film Resistor	6.2K 1/4 F			01
* R506	V5099500	Metal Film Resistor	120K 1/4 F			01
* R507	VC322700	Metal Film Resistor	39.00 1/4 F			01
R509	VC330000	Metal Film Resistor	33.0K 1/4 F			01
* R510	VC328300	Metal Film Resistor	6.2K 1/4 F			01
* R511	VC330100	Metal Film Resistor	36.0K 1/4 F			01
R512	VC327400	Metal Film Resistor	2.7K 1/4 F			01
* R513	VC323500	Metal Film Resistor	68.00 1/4 F			01
R514	VC328800	Metal Film Resistor	10.0K 1/4 F			01
* R515	VC327800	Metal Film Resistor	3.9K 1/4 F			01
* R516	VC329000	Metal Film Resistor	12.0K 1/4 F			01
R517	VC329400	Metal Film Resistor	18.0K 1/4 F			01
R518	VC328800	Metal Film Resistor	10.0K 1/4 F			01
* R519	VC321700	Metal Film Resistor	15.00 1/4 F			01
R520	VC328800	Metal Film Resistor	10.0K 1/4 F			01
R521	VC328900	Metal Film Resistor	11.0K 1/4 F			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R522	VC328800	Metal Film Resistor	10.0K 1/4 F			01
R523	VC328800	Metal Film Resistor	10.0K 1/4 F			01
R524	VC327400	Metal Film Resistor	2.7K 1/4 F			01
R700	VK582200	Metal Film Resistor	330.0K 1/10 D			01
R750	VK582200	Metal Film Resistor	330.0K 1/10 D			01
R800	VK582200	Metal Film Resistor	330.0K 1/10 D			01
R850	VK582200	Metal Film Resistor	330.0K 1/10 D			01
R900	VK582200	Metal Film Resistor	330.0K 1/10 D			01
-903	VK582200	Metal Film Resistor	330.0K 1/10 D			01
	HF754470	Carbon Resistor	47.0 1/4 J			01
	HF758100	Carbon Resistor	100.0K 1/4 J			01
	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
	RD255390	Carbon Resistor (chip)	390.0 0.1 J			01
	RD256220	Carbon Resistor (chip)	2.2K 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
	RD257470	Carbon Resistor (chip)	47.0K 0.1 J			01
* TH300	VV111400	Protector Switch	SMD075-2 SMD			03
* TH301	VV111400	Protector Switch	SMD075-2 SMD			03
* TH302	VV111700	Protector Switch	SMD125-2 SMD			
* TH303	VV111400	Protector Switch	SMD075-2 SMD			03
TR700	VV556400	Transistor	2SC2412K Q,R,S			01
TR701	VV556500	Transistor	2SA1037K Q,R,S			01
TR750	VV556400	Transistor	2SC2412K Q,R,S			01
TR751	VV556500	Transistor	2SA1037K Q,R,S			01
TR800	VV556400	Transistor	2SC2412K Q,R,S			01
TR801	VV556500	Transistor	2SA1037K Q,R,S			01
TR850	VV556400	Transistor	2SC2412K Q,R,S			01
TR851	VV556500	Transistor	2SA1037K Q,R,S			01
*	V66737S0	Circuit Board	CS ADA2	(XZ523A0)		
C100	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C101	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C102	V5829300	Electrolytic Cap. (chip)	100 16V 16SG100M+T			04
C103	V5829300	Electrolytic Cap. (chip)	100 16V 16SG100M+T			04
C109	UR867100	Electrolytic Cap.	10.00 50.0V			01
C111	UR867100	Electrolytic Cap.	10.00 50.0V			01
C115	UR867100	Electrolytic Cap.	10.00 50.0V			01
C118	UR867100	Electrolytic Cap.	10.00 50.0V			01
C123	UR867100	Electrolytic Cap.	10.00 50.0V			01
-126	UR867100	Electrolytic Cap.	10.00 50.0V			01
C127	UR847220	Electrolytic Cap.	22.00 25.0V			01
C128	UR847220	Electrolytic Cap.	22.00 25.0V			01
C129	UR847470	Electrolytic Cap.	47.00 25.0V			01
-136	UR847470	Electrolytic Cap.	47.00 25.0V			01
C161	UR867100	Electrolytic Cap.	10.00 50.0V			01
C162	UR867100	Electrolytic Cap.	10.00 50.0V			01
C164	UR867100	Electrolytic Cap.	10.00 50.0V			01
C165	UR867100	Electrolytic Cap.	10.00 50.0V			01
C171	UR867100	Electrolytic Cap.	10.00 50.0V			01
C172	UR847470	Electrolytic Cap.	47.00 25.0V			01
C174	UR867100	Electrolytic Cap.	10.00 50.0V			01
C178	UR867100	Electrolytic Cap.	10.00 50.0V			01
C180	UR847470	Electrolytic Cap.	47.00 25.0V			01
C182	UR867100	Electrolytic Cap.	10.00 50.0V			01
C187	UR867100	Electrolytic Cap.	10.00 50.0V			01
-190	UR867100	Electrolytic Cap.	10.00 50.0V			01
C191	UR847470	Electrolytic Cap.	47.00 25.0V			01
-198	UR847470	Electrolytic Cap.	47.00 25.0V			01
C217	UR867100	Electrolytic Cap.	10.00 50.0V			01
C218	UR867100	Electrolytic Cap.	10.00 50.0V			01
C220	UR867100	Electrolytic Cap.	10.00 50.0V			01
C221	UR867100	Electrolytic Cap.	10.00 50.0V			01
C228	UR847470	Electrolytic Cap.	47.00 25.0V			01
C231	UR867100	Electrolytic Cap.	10.00 50.0V			01
C234	UR867100	Electrolytic Cap.	10.00 50.0V			01
C235	UR867100	Electrolytic Cap.	10.00 50.0V			01
C238	UR867100	Electrolytic Cap.	10.00 50.0V			01
C243	UR867100	Electrolytic Cap.	10.00 50.0V			01
C244	UR867100	Electrolytic Cap.	10.00 50.0V			01

*: New Parts

RANK: Japan only

REF. NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C255	UR847470	Electrolytic Cap.	47.00 25.0V			01
C300	UR848100	Electrolytic Cap.	100.00 25.0V			01
C301	UR848100	Electrolytic Cap.	100.00 25.0V			01
C302	UR867100	Electrolytic Cap.	10.00 50.0V			01
-305	UR867100	Electrolytic Cap.	10.00 50.0V			01
C310	UR838100	Electrolytic Cap.	100.00 16.0V			01
-312	UR838100	Electrolytic Cap.	100.00 16.0V			01
C313	UR838100	Electrolytic Cap.	100.00 16.0V			01
C318	UR838470	Electrolytic Cap.	470.00 16.0V			01
-321	UR838470	Electrolytic Cap.	470.00 16.0V			01
C322	VE326400	Monolithic Mylar Capacitor	0.22 50V J			01
-325	VE326400	Monolithic Mylar Capacitor	0.22 50V J			01
C356	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
C357	V5829200	Electrolytic Cap. (chip)	100 20V 20SG100M+T			04
	UA353220	Mylar Capacitor	2200P 50V J			01
	UA353680	Mylar Capacitor	6800P 50V J			01
	UA353300	Mylar Capacitor	3000P 50V J			01
	UA353470	Mylar Capacitor	4700P 50V J			01
	UA355100	Mylar Capacitor	0.1000 50V J			01
	UB044100	Monolithic Ceramic Cap.	F 0.010 50V Z			01
	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
	UB245220	Monolithic Ceramic Cap.	F 0.220 25V Z			01
	UB051220	Monolithic Ceramic Cap.	SL 22P 50V J			01
	UB051560	Monolithic Ceramic Cap.	SL 56P 50V J			01
	UB052100	Monolithic Ceramic Cap.	SL 100P 50V J			01
	UB052180	Monolithic Ceramic Cap.	SL 180P 50V J			01
	UB012220	Monolithic Ceramic Cap.	B 220P 50V K			01
CN100	VB390600	Connector Base Post	PH 10P TE			01
CN101	VB390400	Connector Base Post	PH 8P TE			01
CN102	VB390200	Connector Base Post	PH 6P TE			01
CN103	VB390200	Connector Base Post	PH 6P TE			01
CN104	VB390400	Connector Base Post	PH 8P TE			01
CN105	VB390400	Connector Base Post	PH 8P TE			01
CN106	VB390200	Connector Base Post	PH 6P TE			01
CN107	VB389900	Connector Base Post	PH 3P TE			01
CN108	VB389900	Connector Base Post	PH 3P TE			01
CN300	VB390400	Connector Base Post	PH 8P TE			01
CN301	VB390100	Connector Base Post	PH 5P TE			01
CN302	VB390400	Connector Base Post	PH 8P TE			01
CN303	VB389900	Connector Base Post	PH 3P TE			01
-308	VB389900	Connector Base Post	PH 3P TE			01
EM100	FZ006970	LC Filter	LS MT Y223NB			02
-107	FZ006970	LC Filter	LS MT Y223NB			02
EM302	FZ006970	LC Filter	LS MT Y223NB			02
EM303	FZ006970	LC Filter	LS MT Y223NB			02
IC100	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC102	XM332A00	IC	TC74VHC04F EL	INVERTER		01
IC103	XV065A00	IC	AK5392-VS-E2	ADC		12
IC104	XV065A00	IC	AK5392-VS-E2	ADC		12
IC105	XW029A00	IC	AK4393-VF-E2	DAC		07
IC106	XW029A00	IC	AK4393-VF-E2	DAC		07
IC107	XJ598A00	IC	NJM78L05UA	REGULATOR +5V		02
IC108	XJ598A00	IC	NJM78L05UA	REGULATOR +5V		02
IC109	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
-116	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC121	XW029A00	IC	AK4393-VF-E2	DAC		07
IC122	XW029A00	IC	AK4393-VF-E2	DAC		07
IC123	XJ598A00	IC	NJM78L05UA	REGULATOR +5V		02
IC124	XJ598A00	IC	NJM78L05UA	REGULATOR +5V		02
IC137	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC138	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC139	XY537A00	IC	TC74VHC32F(EL)	OR		01
IC140	XT014A00	IC	TC74VHC08F	AND		01
IC300	XP705A00	IC	NJM2073D	POWER AMP. 0.65W 2CH		03
IC301	XP705A00	IC	NJM2073D	POWER AMP. 0.65W 2CH		03
IC302	XJ608A00	IC	NJM7812FA	REGULATOR +12V		02
IC303	XJ608A00	IC	NJM7812FA	REGULATOR +12V		02
L100	V2589800	Chip Inductance	BK2125LM751-T			01
-106	V2589800	Chip Inductance	BK2125LM751-T			01
L110	GE300610	Ferrite Bead	BL02RN1-R62T4			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
-113	GE300610	Ferrite Bead	BL02RN1-R62T4			01
R107	VH007200	Metal Film Resistor	10.0K 1/4 F			01
R109	VH007200	Metal Film Resistor	10.0K 1/4 F			01
R113	VH006100	Metal Film Resistor	3.6K 1/4 F			01
R114	VH006100	Metal Film Resistor	3.6K 1/4 F			01
R115	VH007200	Metal Film Resistor	10.0K 1/4 F			01
-118	VH007200	Metal Film Resistor	10.0K 1/4 F			01
R119	VH005800	Metal Film Resistor	2.7K 1/4 F			01
R120	VH006200	Metal Film Resistor	3.9K 1/4 F			01
-127	VH006200	Metal Film Resistor	3.9K 1/4 F			01
R128	VH007800	Metal Film Resistor	18.0K 1/4 F			01
-131	VH007800	Metal Film Resistor	18.0K 1/4 F			01
R132	VH007300	Metal Film Resistor	11.0K 1/4 F			01
R133	VH005800	Metal Film Resistor	2.7K 1/4 F			01
R134	VH001600	Metal Film Resistor	47.0 1/4 F			01
R135	VH007800	Metal Film Resistor	18.0K 1/4 F			01
-138	VH007800	Metal Film Resistor	18.0K 1/4 F			01
R139	VH001600	Metal Film Resistor	47.0 1/4 F			01
-141	VH001600	Metal Film Resistor	47.0 1/4 F			01
R143	VH001400	Metal Film Resistor	39.0 1/4 F			01
-146	VH001400	Metal Film Resistor	39.0 1/4 F			01
R147	VH004800	Metal Film Resistor	1.0K 1/4 F			01
-154	VH004800	Metal Film Resistor	1.0K 1/4 F			01
R155	VH006200	Metal Film Resistor	3.9K 1/4 F			01
-162	VH006200	Metal Film Resistor	3.9K 1/4 F			01
R163	VH007800	Metal Film Resistor	18.0K 1/4 F			01
-170	VH007800	Metal Film Resistor	18.0K 1/4 F			01
R171	VH001400	Metal Film Resistor	39.0 1/4 F			01
-174	VH001400	Metal Film Resistor	39.0 1/4 F			01
R175	VH004800	Metal Film Resistor	1.0K 1/4 F			01
-182	VH004800	Metal Film Resistor	1.0K 1/4 F			01
R191	VH005800	Metal Film Resistor	2.7K 1/4 F			01
R192	VH005800	Metal Film Resistor	2.7K 1/4 F			01
R193	VH007300	Metal Film Resistor	11.0K 1/4 F			01
R300	VH008800	Metal Film Resistor	47.0K 1/4 F			01
-303	VH008800	Metal Film Resistor	47.0K 1/4 F			01
R304	VH005700	Metal Film Resistor	2.4K 1/4 F			01
-307	VH005700	Metal Film Resistor	2.4K 1/4 F			01
R308	VH002700	Metal Film Resistor	130.0 1/4 F			01
-311	VH002700	Metal Film Resistor	130.0 1/4 F			01
R312	VH006500	Metal Film Resistor	5.1K 1/4 F			01
-315	VH006500	Metal Film Resistor	5.1K 1/4 F			01
R324	VC742900	Metal Oxide Film Resistor	15.0 1W J			01
R326	VC742900	Metal Oxide Film Resistor	15.0 1W J			01
R328	VC742900	Metal Oxide Film Resistor	15.0 1W J			01
R330	VC742900	Metal Oxide Film Resistor	15.0 1W J			01
	HF454150	Carbon Resistor	15.0 1/4 J			01
	HF457220	Carbon Resistor	22.0K 1/4 J			01
	HF454470	Carbon Resistor	47.0 1/4 J			01
	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
TR300	V2993500	Transistor	2SD1979 S,T			01
-303	V2993500	Transistor	2SD1979 S,T			01
TR304	IC1815M0	Transistor	2SC1815 Y,GR			01
	--	Circuit Board	CS AEI	(V438150)(XW566A0)		
C12	UF037470	Electrolytic Cap. (chip)	47 16V			01
C13	UF037470	Electrolytic Cap. (chip)	47 16V			01
C22	UF037470	Electrolytic Cap. (chip)	47 16V			01
C23	UF037470	Electrolytic Cap. (chip)	47 16V			01
C32	UF037470	Electrolytic Cap. (chip)	47 16V			01
C33	UF037470	Electrolytic Cap. (chip)	47 16V			01
C42	UF037470	Electrolytic Cap. (chip)	47 16V			01
C43	UF037470	Electrolytic Cap. (chip)	47 16V			01
C49	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
	VP864400	Mylar Capacitor (chip)	0.0047 16V J			01
	FG252100	Monolithic Ceramic Cap.	100P 50V			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
	UB445330	Monolithic Ceramic Cap.	F 0.33 16V Z			01

*: New Parts

RANK: Japan only

REFNO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
CN1	VT640300	Receptacle	PHEC 100P SE			04
EM1	FZ006970	LC Filter	LS MT Y223NB			02
IC1	XU815A00	IC	DS26C32ATMX	LINE RECEIVER		06
* IC2	IS012500	IC	HD74LV125AFPEL	BUFFER		01
* IC3	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC4	XW422A00	IC	M51953AFP	SYSTEM RESET		01
* IC5	XW422A00	IC	M51953AFP	SYSTEM RESET		01
IC6	XG948E00	IC	YM3436DK	DIR2		11
IC7	XG948E00	IC	YM3436DK	DIR2		11
* IC8	IS000800	IC	HD74LV08AFPEL	AND		01
* IC9	IS012500	IC	HD74LV125AFPEL	BUFFER		01
* IC10	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC11	XV453A00	IC	AD1890JP	ASRC		14
* IC12	XV453A00	IC	AD1890JP	ASRC		14
* IC13	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC14	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC15	IS007400	IC	HD74LV74AFPEL	D-FF		01
* IC16	IS012500	IC	HD74LV125AFPEL	BUFFER		01
* IC18	XW422A00	IC	M51953AFP	SYSTEM RESET		01
* IC19	XW422A00	IC	M51953AFP	SYSTEM RESET		01
IC20	XG948E00	IC	YM3436DK	DIR2		11
IC21	XG948E00	IC	YM3436DK	DIR2		11
* IC22	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC23	XV453A00	IC	AD1890JP	ASRC		14
* IC24	XV453A00	IC	AD1890JP	ASRC		14
* IC25	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC26	IS007400	IC	HD74LV74AFPEL	D-FF		01
* IC27	IS012500	IC	HD74LV125AFPEL	BUFFER		01
IC28	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-30	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC31	IS000800	IC	HD74LV08AFPEL	AND		01
IC32	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-34	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC35	IS013810	IC	SN74LV138ANSR	DECODER		01
* IC36	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC37	IS027300	IC	HD74LV273AFPEL	D-FF		02
IC38	XQ968A00	IC	TC74HC251AF	DATA SELECTOR		03
* IC39	IS003200	IC	HD74LV32AFPEL	OR		01
* IC40	IS003200	IC	HD74LV32AFPEL	OR		01
IC41	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
JK1	VL958600	XLM Connector	XLM-3-31PCV			08
-4	VL958600	XLM Connector	XLM-3-31PCV			08
L1	VP246200	Noise Filter	ZJY51R5-8P			07
L2	VP246100	Pluse Transformer	P17H			07
-5	VP246100	Pluse Transformer	P17H			07
L6	VS740100	Chip Inductance	BLM21B751S 2125			03
-33	VS740100	Chip Inductance	BLM21B751S 2125			03
RA1	RE048100	Resistor Array	100KX4			01
-5	RE048100	Resistor Array	100KX4			01
RA6	RE047100	Resistor Array	10KX4			01
RA7	RE047100	Resistor Array	10KX4			01
X1	VV349100	Quartz Crystal Unit	20.0MHz DSO751S			08
	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
	RD255110	Carbon Resistor (chip)	110.0 0.1 J			01
	RD256330	Carbon Resistor (chip)	3.3K 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
	--	Circuit Board	CS CCAS	(V504990)(XW667B0)		
	--	Tape		(V581670)		
	--	Heat Sink	IC-A	(V579330)	4	
	--	Heat Sink	IC-B	(V579340)	4	
C101	UF118330	Electrolytic Cap. (chip)	330 6.3V UUR0J3			01
C156	UF118330	Electrolytic Cap. (chip)	330 6.3V UUR0J3			01
-159	UF118330	Electrolytic Cap. (chip)	330 6.3V UUR0J3			01
C160	UF066100	Electrolytic Cap. (chip)	1 50V			01
-163	UF066100	Electrolytic Cap. (chip)	1 50V			01
C193	UF037100	Electrolytic Cap. (chip)	10 16V			01
C194	UF037100	Electrolytic Cap. (chip)	10 16V			01
C195	UF037220	Electrolytic Cap. (chip)	22 16V			01
C196	UF037220	Electrolytic Cap. (chip)	22 16V			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	VE659000	Ceramic Capacitor	0.1 25V			01
	US061200	Ceramic Capacitor-CH(chip)	20P 50V J			01
	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
	US062680	Ceramic Capacitor-SL(chip)	680P 50V J			01
	UB012470	Monolithic Ceramic Cap.	B 470P 50V K			01
	UB013470	Monolithic Ceramic Cap.	B 4700P 50V K			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN101	VZ581500	Header, Flat Cable	53320 96P SE			05
CN102	VB390600	Connector Base Post	PH-10P TE			01
D101	VB941200	Diode	1SS133,1SS176			01
-104	VB941200	Diode	1SS133,1SS176			01
EM101	FZ006970	LC Filter	LS MT Y223NB			02
EM102	FZ005920	LC Filter	LS MT Y223NB			02
IC101	XP226A00	IC	IC-PST591DMT	SYSTEM RESET		03
IC102	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC103	IS000800	IC	HD74LV08AFPEL	AND		01
IC104	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-108	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC109	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC110	IS001100	IC	HD74LV11AFPEL	AND		01
IC111	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC112	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
* IC113	XY114A00	IC	CY7C027-20AC	SRAM 512K		22
* IC114	XY114A00	IC	CY7C027-20AC	SRAM 512K		22
* IC115	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC116	XY137A00	IC	CY7C433-25JC	FIFO		10
* IC117	XY137A00	IC	CY7C433-25JC	FIFO		10
IC118	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC119	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC120	XY137A00	IC	CY7C433-25JC	FIFO		10
* IC121	XY137A00	IC	CY7C433-25JC	FIFO		10
* IC122	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC123	XW239A00	IC	EPC1	EPROM 1M		09
* IC124	XY090A00	IC	EPF10K50EQC240-3	FPGA		25
* IC125	IS007400	IC	HD74LV74AFPEL	D-FF		01
* IC126	XW277A00	IC	AM7992BPC	SIA		14
* -129	XW277A00	IC	AM7992BPC	SIA		14
* IC130	XW278A00	IC	DP8392CN	CTI		13
* -133	XW278A00	IC	DP8392CN	CTI		13
IC134	XZ001A00	IC	ELP05S09	DC-DC CONVERTER		08
-137	XZ001A00	IC	ELP05S09	DC-DC CONVERTER		08
* IC138	XZ062A00	IC	LT1117CST-3.3EP	REGULATOR +3.3V		08
* IC139	XY094A00	IC	LT1118CST-2.5	REGULATOR +2.5V		08
IC140	XU862A00	IC	TC74HCT244AF	BUFFER		03
* IC141	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC142	IS012500	IC	HD74LV125AFPEL	BUFFER		01
JK101	VI552200	BNC Connector	YKS11-0 1P			05
-104	VI552200	BNC Connector	YKS11-0 1P			05
* L101	V2571300	Pluse Transformer	TLA075-3E			08
* -104	V2571300	Pluse Transformer	TLA075-3E			08
R179	VH002400	Metal Film Resistor	100.0 1/4 F			01
-186	VH002400	Metal Film Resistor	100.0 1/4 F			01
	HF756100	Carbon Resistor	1.0K 1/4 J			01
	HF459100	Carbon Resistor	1.0M 1/4 J			01
	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
*	RD254200	Carbon Resistor (chip)	20.0 0.1 J			01
	RD254390	Carbon Resistor (chip)	39.0 0.1 J			01
	RD255510	Carbon Resistor (chip)	510.0 0.1 J			01
	RD256300	Carbon Resistor (chip)	3.0K 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
RA101	RE048100	Resistor Array	100KX4			01
-110	RE048100	Resistor Array	100KX4			01
RA111	RE047100	Resistor Array	10KX4			01
-119	RE047100	Resistor Array	10KX4			01
RA122	RE046100	Resistor Array	1KX4			01
RA123	RE046100	Resistor Array	1KX4			01
RA125	RE047100	Resistor Array	10KX4			01
RA126	RE047100	Resistor Array	10KX4			01
RA131	RE046470	Resistor Array	4.7KX4			01
-149	RE046470	Resistor Array	4.7KX4			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* SC123	VV047100	IC Socket	DICF-8CS-E			01
* X101	VZ568000	Quartz Crystal Unit	40MHz DSO751S			06
	--	Circuit Board	CS EIF	(V451380)(XW667B0)		
	--	Tape		(V581670)		
	--	Heat Sink	IC-A	(V579330)	4	
	--	Heat Sink	IC-B	(V579340)	4	
C101	UF118330	Electrolytic Cap. (chip)	330 6.3V UUR0J3			01
C160	UF066100	Electrolytic Cap. (chip)	1 50V			01
-163	UF066100	Electrolytic Cap. (chip)	1 50V			01
C193	UF037100	Electrolytic Cap. (chip)	10 16V			01
C194	UF037100	Electrolytic Cap. (chip)	10 16V			01
C195	UF037220	Electrolytic Cap. (chip)	22 16V			01
C196	UF037220	Electrolytic Cap. (chip)	22 16V			01
	VE659000	Ceramic Capacitor	0.1 25V			01
	US061200	Ceramic Capacitor-CH(chip)	20P 50V J			01
	US062220	Ceramic Capacitor-SL(chip)	220P 50V J			01
	US062680	Ceramic Capacitor-SL(chip)	680P 50V J			01
	UB012470	Monolithic Ceramic Cap.	B 470P 50V K			01
	UB013470	Monolithic Ceramic Cap.	B 4700P 50V K			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN101	VZ581500	Header, Flat Cable	53320 96P SE			05
CN102	VB390600	Connector Base Post	PH-10P TE			01
D101	VB941200	Diode	1SS133,1SS176			01
-104	VB941200	Diode	1SS133,1SS176			01
EM101	FZ006970	LC Filter	LS MT Y223NB			02
EM102	FZ005920	LC Filter	LS MT Y223NB			02
IC101	XP226A00	IC	IC-PST591DMT	SYSTEM RESET		03
IC102	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC103	IS000800	IC	HD74LV08AFPEL	AND		01
IC104	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-108	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC109	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC110	IS001100	IC	HD74LV11AFPEL	AND		01
IC111	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC112	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
* IC113	XY114A00	IC	CY7C027-20AC	SRAM 512K		22
* IC115	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC116	XY137A00	IC	CY7C433-25JC	FIFO		10
* IC117	XY137A00	IC	CY7C433-25JC	FIFO		10
IC118	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC119	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
* IC120	XY137A00	IC	CY7C433-25JC	FIFO		10
* IC121	XY137A00	IC	CY7C433-25JC	FIFO		10
* IC122	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC123	XW239A00	IC	EPC1	EPROM 1M		09
* IC124	XY090A00	IC	EPF10K50EQC240-3	FPGA		25
* IC125	IS007400	IC	HD74LV74AFPEL	D-FF		01
* IC126	XW277A00	IC	AM7992BPC	SIA		14
* -129	XW277A00	IC	AM7992BPC	SIA		14
* IC130	XW278A00	IC	DP8392CN	CTI		13
* -133	XW278A00	IC	DP8392CN	CTI		13
IC134	XZ001A00	IC	ELP05S09	DC-DC CONVERTER		08
-137	XZ001A00	IC	ELP05S09	DC-DC CONVERTER		08
* IC138	XZ062A00	IC	LT1117CST-3.3EP	REGULATOR +3.3V		
* IC139	XY094A00	IC	LT1118CST-2.5	REGULATOR +2.5V		08
IC140	XU862A00	IC	TC74HCT244AF	BUFFER		03
* IC141	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC142	IS012500	IC	HD74LV125AFPEL	BUFFER		01
JK101	VI552200	BNC Connector	YKS11-0 1P			05
-104	VI552200	BNC Connector	YKS11-0 1P			05
* L101	V2571300	Pluse Transformer	TLA075-3E			08
* -104	V2571300	Pluse Transformer	TLA075-3E			08
R179	VH002400	Metal Film Resistor	100.0 1/4 F			01
-186	VH002400	Metal Film Resistor	100.0 1/4 F			01
	HF756100	Carbon Resistor	1.0K 1/4 J			01
	HF459100	Carbon Resistor	1.0M 1/4 J			01
	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
* -	RD254200	Carbon Resistor (chip)	20.0 0.1 J			01
	RD254390	Carbon Resistor (chip)	39.0 0.1 J			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	RD255510	Carbon Resistor (chip)	510.0 0.1 J			01
	RD256300	Carbon Resistor (chip)	3.0K 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
RA101	RE048100	Resistor Array	100KX4			01
-110	RE048100	Resistor Array	100KX4			01
RA111	RE047100	Resistor Array	10KX4			01
-119	RE047100	Resistor Array	10KX4			01
RA122	RE046100	Resistor Array	1KX4			01
RA123	RE046100	Resistor Array	1KX4			01
RA125	RE047100	Resistor Array	10KX4			01
RA126	RE047100	Resistor Array	10KX4			01
RA131	RE046470	Resistor Array	4.7KX4			01
-149	RE046470	Resistor Array	4.7KX4			01
* SC123	VV047100	IC Socket	DICF-8CS-E			01
* X101	VZ568000	Quartz Crystal Unit	40MHz DSO751S			06
	--	Circuit Board	CS CIO	(V438180)(XW567A0)		
C8	UF037470	Electrolytic Cap. (chip)	47 16V			01
C19	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
	VR327300	Mylar Capacitor (chip)	0.082 16V J			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
	UB445330	Monolithic Ceramic Cap.	F 0.33 16V Z			01
* CN1	V4158600	Connector	230R(SCSI) 68P SE			06
CN2	VT640300	Receptacle	PHEC 100P SE			04
DA1	VV556300	Diode Array	DAN217 0.3A X2			01
-45	VV556300	Diode Array	DAN217 0.3A X2			01
EM1	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
EM2	VL534100	LC Filter	NFA81R00C101			05
EM3	VL534100	LC Filter	NFA81R00C101			05
EM4	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
EM5	VL534100	LC Filter	NFA81R00C101			05
EM6	VL534100	LC Filter	NFA81R00C101			05
EM7	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
EM8	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
EM9	FZ006970	LC Filter	LS MT Y223NB			02
IC1	XU815A00	IC	DS26C32ATMX	LINE RECEIVER		06
-3	XU815A00	IC	DS26C32ATMX	LINE RECEIVER		06
IC4	XU996A00	IC	AM26LS31CNSR	LINE DRIVER		05
-6	XU996A00	IC	AM26LS31CNSR	LINE DRIVER		05
* IC7	XW422A00	IC	M51953AFP	SYSTEM RESET		01
IC8	XU235A00	IC	SGH609080F-47F	ATSC		10
IC9	XG948E00	IC	YM3436DK	DIR2		11
* IC10	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC11	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC12	IS000800	IC	HD74LV08AFPEL	AND		01
IC13	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-16	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC17	IS013810	IC	SN74LV138ANSR	DECODER		01
IC18	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-21	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC22	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC23	IS000800	IC	HD74LV08AFPEL	AND		01
* IC24	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC25	IS003200	IC	HD74LV32AFPEL	OR		01
L1	VS740100	Chip Inductance	BLM21B751S 2125			03
-37	VS740100	Chip Inductance	BLM21B751S 2125			03
RA1	RE047100	Resistor Array	10KX4			01
RA2	RE047100	Resistor Array	10KX4			01
RA3	RE048100	Resistor Array	100KX4			01
-9	RE048100	Resistor Array	100KX4			01
RA10	RE047100	Resistor Array	10KX4			01
RA11	RE047100	Resistor Array	10KX4			01
	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
	RD255150	Carbon Resistor (chip)	150.0 0.1 J			01
	RD255470	Carbon Resistor (chip)	470.0 0.1 J			01
	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
	RD256330	Carbon Resistor (chip)	3.3K 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
	RD257220	Carbon Resistor (chip)	22.0K 0.1 J			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	RD257470	Carbon Resistor (chip)	47.0K 0.1 J			01
	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
	--	Circuit Board	CS CMU1	(V451320)(XW662A0)		
	--	USB Angle		(V563370)		
BT101	VN103600	Battery Holder	CR2032			03
C101	UF118330	Electrolytic Cap. (chip)	330 6.3V UUR0J3			01
C106	UF037100	Electrolytic Cap. (chip)	10 16V			01
C107	UF037100	Electrolytic Cap. (chip)	10 16V			01
C116	UF037330	Electrolytic Cap. (chip)	33 16V			01
C168	UF118330	Electrolytic Cap. (chip)	330 6.3V UUR0J3			01
C172	UF037100	Electrolytic Cap. (chip)	10 16V			01
-175	UF037100	Electrolytic Cap. (chip)	10 16V			01
C178	UF037100	Electrolytic Cap. (chip)	10 16V			01
C182	UF037220	Electrolytic Cap. (chip)	22 16V			01
*	UB051200	Monolithic Ceramic Cap.	SL 20P 50V J			01
	UB051220	Monolithic Ceramic Cap.	SL 22P 50V J			01
	UB051680	Monolithic Ceramic Cap.	SL 68P 50V J			01
	UB012470	Monolithic Ceramic Cap.	B 470P 50V K			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
D101	VT332900	Diode	1SS355 TE-17			01
CN101	VZ581500	Header, Flat Cable	53320 96P SE			05
CN102	VB390100	Connector Base Post	PH- 5P TE			01
CN103	VB390600	Connector Base Post	PH-10P TE			01
CN104	VB390100	Connector Base Post	PH- 5P TE			01
CN105	V3671200	USB Jack	4P TE			03
CN106	VU196300	Connector Socket	17LE-23090-27(D4CH			04
DA101	V3749000	Diode Array	DA204K 2A X2 T146			01
EM101	FZ006970	LC Filter	LS MT Y223NB			02
EM102	FZ005900	LC Filter	LS MT B271KS			02
-104	FZ005900	LC Filter	LS MT B271KS			02
EM105	FZ006970	LC Filter	LS MT Y223NB			02
IC103	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC104	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC105	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC106	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC107	XI686A00	IC	M62021FP	SYSTEM RESET		04
* IC108	IS003200	IC	HD74LV32AFPEL	OR		01
IC109	XN797A00	IC	NJM2082M(T1)	OP AMP		02
IC110	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC111	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC112	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
-114	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC115	XY716A00	IC		CPU		12
IC116	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC117	IS000800	IC	HD74LV08AFPEL	AND		01
* IC118	IS000800	IC	HD74LV08AFPEL	AND		01
* IC119	XV685A00	IC	MBM29F400BC-70PFTN	FLASH ROM 4M		11
IC120	XV729A00	IC	IDT71016S15Y-TR	SRAM 1M		09
IC121	XV729A00	IC	IDT71016S15Y-TR	SRAM 1M		09
IC122	XW303A00	IC	HM628512BLFP-5SL	SRAM 4M		15
-125	XW303A00	IC	HM628512BLFP-5SL	SRAM 4M		15
* IC126	XY722B00	IC	EPM7128AETC100-10	FPGA		
* IC127	XY114A00	IC	CY7C027-20AC	SRAM 512K		22
IC128	XY715A00	IC	HD6437042AF28	CPU		10
IC129	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC130	IS000800	IC	HD74LV08AFPEL	AND		01
* IC131	XV685A00	IC	MBM29F400BC-70PFTN	FLASH ROM 4M		11
IC132	XV729A00	IC	IDT71016S15Y-TR	SRAM 1M		09
* IC134	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC135	XW583A00	IC	PDIUSB12PW	USB I/F		09
IC136	XP113A00	IC	MAX202CSE	RS-232C		06
* IC138	IS000400	IC	HD74LV04AFPEL	INVERTER		01
IC139	XQ970A00	IC	HD74HC30FPTL	NAND		01
* IC140	IS000400	IC	HD74LV04AFPEL	INVERTER		01
K101	VI474400	Terminal Plate				01
* LD101	V3990300	LED	TLSU1008 RE			01
* LD102	V3990300	LED	TLSU1008 RE			01
RA101	RE047100	Resistor Array	10KX4			01
RA102	RE048100	Resistor Array	100KX4			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
RA103	RE048100	Resistor Array	100KX4			01
RA104	RE047100	Resistor Array	10KX4			01
RA105	RE048100	Resistor Array	100KX4			01
RA106	RE048100	Resistor Array	100KX4			01
RA107	RE047100	Resistor Array	10KX4			01
RA111	RE047100	Resistor Array	10KX4			01
-137	RE047100	Resistor Array	10KX4			01
RA139	RE046100	Resistor Array	1KX4			01
RA140	RE047100	Resistor Array	10KX4			01
-160	RE047100	Resistor Array	10KX4			01
RA163	RE048100	Resistor Array	100KX4			01
* X101	V4038900	Quartz Crystal Unit	8.27MHz SMD-49			03
* X102	V3990700	Ceramic Resonator	CSTCC7.16MG0H6-TC			01
* X103	V4093500	Quartz Crystal Unit	6MHz SMD-49			03
	HF856100	Carbon Resistor	1.0K			01
	HF459470	Carbon Resistor	4.7M			01
	RD254180	Carbon Resistor (chip)	18.0 0.1 J			01
*	RD254200	Carbon Resistor (chip)	20.0 0.1 J			01
	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
	RD256150	Carbon Resistor (chip)	1.5K 0.1 J			01
	RD256300	Carbon Resistor (chip)	3.0K 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
	RD259470	Carbon Resistor (chip)	4.7M 0.1 J			01
	--	Circuit Board	CS CMU2	(V451330)(XW663A0)		
C101	UF118330	Electrolytic Cap. (chip)	330 6.3V UUR0J3			01
C102	UF038100	Electrolytic Cap. (chip)	100 16V			01
C103	UF038100	Electrolytic Cap. (chip)	100 16V			01
C134	UF037100	Electrolytic Cap. (chip)	10 16V			01
	UB012470	Monolithic Ceramic Cap.	B 470P 50V K			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN101	VZ581500	Header, Flat Cable	53320 96P SE			05
CN102	VB390100	Connector Base Post	PH- 5P TE			01
CN104	VI878800	Cable Holder	51048 10P TE			01
CN105	VI879000	Cable Holder	51048 12P TE			01
D101	VT332900	Diode	1SS355 TE-17			01
EM101	FZ006970	LC Filter	LS MT Y223NB			02
-103	FZ006970	LC Filter	LS MT Y223NB			02
IC101	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-105	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC106	IS012500	IC	HD74LV125AFPEL	BUFFER		01
IC107	XV605A00	IC	CY7C024-15AC	SRAM 64K		19
* IC108	IS000400	IC	HD74LV04AFPEL	INVERTER		01
IC109	XY715A00	IC	HD6437042AF28	CPU		10
IC110	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC111	IS000800	IC	HD74LV08AFPEL	AND		01
* IC112	XV685A00	IC	MBM29F400BC-70PFTN	FLASH ROM 4M		11
IC113	XV729A00	IC	IDT71016S15Y-TR	SRAM 1M		09
* IC114	IS013810	IC	SN74LV138ANSR	DECODER		01
IC115	XV619A00	IC	ICS2008A	T.C.READER/GENERATOR		15
IC116	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC117	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC118	VN406200	Photo Coupler	HCPL-0600-500			05
IC119	XP226A00	IC	IC-PST591DMT	SYSTEM RESET		03
* IC120	IS000800	IC	HD74LV08AFPEL	AND		01
* IC121	IS003200	IC	HD74LV32AFPEL	OR		01
* IC123	IS012500	IC	HD74LV125AFPEL	BUFFER		01
* IC124	IS001400	IC	HD74LV14AFPEL	INVERTER		01
JK101	VI466400	DIN Connector	3P-DIN YKF51-5046			04
L101	VQ723100	Chip Inductance	EXC CL3225U 3			01
-106	VQ723100	Chip Inductance	EXC CL3225U 3			01
* LD101	V3990300	LED	TLSU1008 RE			01
RA101	RE048100	Resistor Array	100KX4			01
-103	RE048100	Resistor Array	100KX4			01
RA104	RE047100	Resistor Array	10KX4			01
-105	RE047100	Resistor Array	10KX4			01
RA106	RE048100	Resistor Array	100KX4			01
-108	RE048100	Resistor Array	100KX4			01
RA109	RE047100	Resistor Array	10KX4			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
-128	RE047100	Resistor Array	10KX4			01
RA130	RE047100	Resistor Array	10KX4			01
-135	RE047100	Resistor Array	10KX4			01
RA137	RE047100	Resistor Array	10KX4			01
-140	RE047100	Resistor Array	10KX4			01
W104	--	Ribbon Cable	P=2.0 #26 10P130L	(V504700)		
W105	--	Ribbon Cable	P=2.0 #26 12P130L	(V504690)		
* X101	V3990700	Ceramic Resonator	CSTCC7.16MG0H6-TC			01
X102	VZ751900	Quartz Crystal Unit	14.31818MHz SMD-49			03
	HF756100	Carbon Resistor	1.0K 1/4 J			01
	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
	RD155220	Carbon Resistor (chip)	220.0 1/4 J			
	RD256300	Carbon Resistor (chip)	3.0K 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
* CN10	V50656S0	Circuit Board	CS CNDS1	(XY193A0)		
CN11	LB932060	Base Post Connector	VH- 6P TE			01
CN12	LB932060	Base Post Connector	VH- 6P TE			01
CN12	VB389800	Connector Base Post	PH- 2P TE			01
CN13	VB389800	Connector Base Post	PH- 2P TE			01
CN14	LB932020	Base Post Connector	VH- 2P TE			01
CN15	LB932020	Base Post Connector	VH- 2P TE			01
CN18	LB932040	Base Post Connector	VH- 4P TE			01
CN100	VF283100	Connector Base Post	PH-13P TE			01
CN101	LB932060	Base Post Connector	VH- 6P TE			01
-104	LB932060	Base Post Connector	VH- 6P TE			01
CN105	VF283400	Connector Base Post	PH-16P TE			01
-108	VF283400	Connector Base Post	PH-16P TE			01
F100	VN792600	Fuse	K19372 2.0A			02
-103	VN792600	Fuse	K19372 2.0A			02
TH100	VV458000	Protector Switch	RUE250 2.50A 30V			03
TH101	VV458000	Protector Switch	RUE250 2.50A 30V			03
TH102	VU847300	Protector Switch	RUE185 1.85A 30V			03
-105	VU847300	Protector Switch	RUE185 1.85A 30V			03
* TH110	VV457900	Protector Switch	RUE160 1.60A 30V			02
* TH111	VV457900	Protector Switch	RUE160 1.60A 30V			02
* TH112	VV457600	Protector Switch	RUE090 0.90A 30V			02
* TH114	VV457600	Protector Switch	RUE090 0.90A 30V			02
* TH116	VV458100	Protector Switch	RUE300 3.00A 30V			03
* TH117	VV458100	Protector Switch	RUE300 3.00A 30V			03
* TH122	VV457600	Protector Switch	RUE090 0.90A 30V			02
* TH124	VV457600	Protector Switch	RUE090 0.90A 30V			02
* C1	V43340S0	Circuit Board	CS CNDS2	(XW538A0)		
C1	UR838470	Electrolytic Cap.	470.00 16.0V			01
CN30	LB932060	Base Post Connector	VH- 6P TE			01
-32	LB932060	Base Post Connector	VH- 6P TE			01
CN33	LB932020	Base Post Connector	VH- 2P TE			01
CN34	LB932060	Base Post Connector	VH- 6P TE			01
CN35	LB932060	Base Post Connector	VH- 6P TE			01
CN36	LB932040	Base Post Connector	VH- 4P TE			01
-38	LB932040	Base Post Connector	VH- 4P TE			01
CN39	LB932020	Base Post Connector	VH- 2P TE			01
CN40	LB932020	Base Post Connector	VH- 2P TE			01
CN41	LB932080	Base Post Connector	VH- 8P TE			01
CN200	VB389800	Connector Base Post	PH- 2P TE			01
CN201	VB390000	Connector Base Post	PH- 4P TE			01
CN202	VB390800	Connector Base Post	PH-12P TE			01
CN203	VB390600	Connector Base Post	PH-10P TE			01
CN204	VB390800	Connector Base Post	PH-12P TE			01
CN205	LB932060	Base Post Connector	VH- 6P TE			01
CN206	LB932070	Base Post Connector	VH- 7P TE			01
CN207	VB390800	Connector Base Post	PH-12P TE			01
CN300	LB932080	Base Post Connector	VH- 8P TE			01
CN301	VB390000	Connector Base Post	PH- 4P TE			01
CN302	LB932040	Base Post Connector	VH- 4P TE			01
CN303	LB932060	Base Post Connector	VH- 6P TE			01
CN304	VF283300	Connector Base Post	PH-15P TE			01
CN305	LB932100	Base Post Connector	VH-10P TE			02

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
CN306	LB932100	Base Post Connector	VH-10P TE			02
CN307	VF283300	Connector Base Post	PH-15P TE			01
CN308	LB932100	Base Post Connector	VH-10P TE			02
CN309	LB932070	Base Post Connector	VH- 7P TE			01
CN310	LB932060	Base Post Connector	VH- 6P TE			01
CN311	VB390400	Connector Base Post	PH- 8P TE			01
CN312	VB390400	Connector Base Post	PH- 8P TE			01
CN313	VB390300	Connector Base Post	PH- 7P TE			01
CN314	VB389900	Connector Base Post	PH- 3P TE			01
CN315	VB390200	Connector Base Post	PH- 6P TE			01
CN316	VB390200	Connector Base Post	PH- 6P TE			01
CN317	VB390400	Connector Base Post	PH- 8P TE			01
CN318	VB390100	Connector Base Post	PH- 5P TE			01
CN319	VB390100	Connector Base Post	PH- 5P TE			01
D1	VB481900	Diode	11ES4			01
D2	VB481900	Diode	11ES4			01
IC1	XD631A00	IC	PST518B-TP	SYSTEM RESET		02
F200	VN792600	Fuse	K19372 2.0A			02
-203	VN792600	Fuse	K19372 2.0A			02
R5	VC744200	Metal Oxide Film Resistor	47.0 1W J			01
	HF456220	Carbon Resistor	2.2K 1/4 J			01
	HF456470	Carbon Resistor	4.7K 1/4 J			01
	HF457100	Carbon Resistor	10.0K 1/4 J			01
	HF457220	Carbon Resistor	22.0K 1/4 J			01
TH200	VU847300	Protector Switch	RUE185 1.85A 30V			03
* TH201	VV458200	Protector Switch	RUE400 4.00A 30V			03
* TH206	VV457600	Protector Switch	RUE090 0.90A 30V			02
* TH207	VV457600	Protector Switch	RUE090 0.90A 30V			02
TH208	VU847300	Protector Switch	RUE185 1.85A 30V			03
* TH209	VV458200	Protector Switch	RUE400 4.00A 30V			03
* TH215	VV458200	Protector Switch	RUE400 4.00A 30V			03
* TH216	VV458200	Protector Switch	RUE400 4.00A 30V			03
TH217	VV458000	Protector Switch	RUE250 2.50A 30V			03
TH218	VV458000	Protector Switch	RUE250 2.50A 30V			03
TH219	VU847300	Protector Switch	RUE185 1.85A 30V			03
* TH220	VV458200	Protector Switch	RUE400 4.00A 30V			03
* TH300	VV458100	Protector Switch	RUE300 3.00A 30V			03
TH301	VV458000	Protector Switch	RUE250 2.50A 30V			03
* TH302	VV458100	Protector Switch	RUE300 3.00A 30V			03
* -307	VV458100	Protector Switch	RUE300 3.00A 30V			03
TH308	VV458000	Protector Switch	RUE250 2.50A 30V			03
* TH309	VV457600	Protector Switch	RUE090 0.90A 30V			02
* TH310	VV457700	Protector Switch	RUE110 1.10A 30V			02
* TH313	VV457600	Protector Switch	RUE090 0.90A 30V			02
TH315	VU847300	Protector Switch	RUE185 1.85A 30V			03
* TH316	VV457600	Protector Switch	RUE090 0.90A 30V			02
TH317	VV458000	Protector Switch	RUE250 2.50A 30V			03
TH318	VV458000	Protector Switch	RUE250 2.50A 30V			03
TH319	VU847300	Protector Switch	RUE185 1.85A 30V			03
TH320	VU847300	Protector Switch	RUE185 1.85A 30V			03
* TH321	VV457700	Protector Switch	RUE110 1.10A 30V			02
* -324	VV457700	Protector Switch	RUE110 1.10A 30V			02
TR1	IA101590	Transistor	2SA1015 O,Y			01
TR2	ID066700	Transistor	2SD667 C,D			01
TR3	IC1815M0	Transistor	2SC1815 Y,GR			01
TR4	IA101590	Transistor	2SA1015 O,Y			01
TR5	IB064730	Transistor	2SB647 C,D			01
ZD1	VG442500	Zener Diode	MTZ J 24.0B 24.0V			01
*	V50657S0	Circuit Board	CS CNDS3	(XY194A0)		
CN60	LB932060	Base Post Connector	VH- 6P TE			01
CN61	LB932060	Base Post Connector	VH- 6P TE			01
CN62	LB932020	Base Post Connector	VH- 2P TE			01
CN63	VF283300	Connector Base Post	PH-15P TE			01
CN64	LB932100	Base Post Connector	VH-10P TE			02
CN65	LB932080	Base Post Connector	VH- 8P TE			01
CN66	LB932040	Base Post Connector	VH- 4P TE			01
CN67	LB932040	Base Post Connector	VH- 4P TE			01
CN68	LB932020	Base Post Connector	VH- 2P TE			01
CN500	VB390100	Connector Base Post	PH- 5P TE			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
CN501	LB932040	Base Post Connector	VH- 4P TE			01
CN502	LB932040	Base Post Connector	VH- 4P TE			01
CN503	LB932060	Base Post Connector	VH- 6P TE			01
CN504	LB932060	Base Post Connector	VH- 6P TE			01
CN505	VB390000	Connector Base Post	PH- 4P TE			01
CN506	LB932060	Base Post Connector	VH- 6P TE			01
CN507	VF283400	Connector Base Post	PH-16P TE			01
-510	VF283400	Connector Base Post	PH-16P TE			01
F300	VN792600	Fuse	K19372 2.0A			02
-303	VN792600	Fuse	K19372 2.0A			02
TH500	VV458000	Protector Switch	RUE250 2.50A 30V			03
* TH501	VV458200	Protector Switch	RUE400 4.00A 30V			03
* TH503	VV458100	Protector Switch	RUE300 3.00A 30V			03
* TH504	VV458100	Protector Switch	RUE300 3.00A 30V			03
* TH506	VV458200	Protector Switch	RUE400 4.00A 30V			03
TH507	VU847300	Protector Switch	RUE185 1.85A 30V			03
-510	VU847300	Protector Switch	RUE185 1.85A 30V			03
* TH511	VV457900	Protector Switch	RUE160 1.60A 30V			02
* TH512	VV457900	Protector Switch	RUE160 1.60A 30V			02
* TH515	VV457600	Protector Switch	RUE090 0.90A 30V			02
* TH517	VV457600	Protector Switch	RUE090 0.90A 30V			02
* TH519	VV457600	Protector Switch	RUE090 0.90A 30V			02
* TH521	VV457600	Protector Switch	RUE090 0.90A 30V			02
*	V45143S0	Circuit Board	CS CRDC1	(XW671A0)		
*	VV323200	Bind Head Screw	2.0X4 MFZN2Y		2	01
*	V5079400	PC Card Connector Guide	IC11SA-BD-PEJL			06
C101	UF047100	Electrolytic Cap. (chip)	10 25V			01
C102	UF047100	Electrolytic Cap. (chip)	10 25V			01
C109	UF066100	Electrolytic Cap. (chip)	1 50V			01
C110	UF066100	Electrolytic Cap. (chip)	1 50V			01
C120	UF066100	Electrolytic Cap. (chip)	1 50V			01
C130	UF066100	Electrolytic Cap. (chip)	1 50V			01
C131	UF066100	Electrolytic Cap. (chip)	1 50V			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN101	--	Pin Header	HIF6A 80P TE	(V451010)		
* CN102	V5047300	PC Card Connector	IC11SA-68PL-1.27SF			07
CN103	--	Receptacle	FX8C 100P TE	(V504680)		
CN105	--	Pin Header	HIF6A 40P TE	(VV97360)		
EM101	FZ006970	LC Filter	LS MT Y223NB			02
EM102	FZ006970	LC Filter	LS MT Y223NB			02
IC101	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC102	XW602A00	IC	TPS2205IDB			09
* IC103	XT800A00	IC	TC74VHC244F	BUFFER		03
* IC104	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
* IC105	XW790A00	IC	E0C37120	DATA BUFFER		08
IC107	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
* IC108	XW790A00	IC	E0C37120	DATA BUFFER		08
RA101	RE047100	Resistor Array	10KX4			01
RA103	RE047100	Resistor Array	10KX4			01
RA105	RE047100	Resistor Array	10KX4			01
RA106	RE047100	Resistor Array	10KX4			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
*	V45144S0	Circuit Board	CS CRDC2	(XW672A0)		
*	VV323200	Bind Head Screw	2.0X4 MFZN2Y		2	01
*	V5079500	PC Card Connector Guide	IC11S-BUR-PEJR			06
* CN101	V4511200	Bottom	IC11S-68PLR-1.27SF			07
CN102	--	Header, Flat Cable	FX8C 100P TE	(V504650)		
	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
*	V66744S0	Circuit Board	CS CUTBVL2(HPCOM2)	(XZ527A0)		
*	V66739S0	Circuit Board	CS HMVOLA2(HPCOM2)	(XZ527A0)		
*	V66740S0	Circuit Board	CS HMVOLB2(HPCOM2)	(XZ527A0)		
*	V66745S0	Circuit Board	CS PHNAB-2(HPCOM2)	(XZ527A0)		
*	V66741S0	Circuit Board	CS TB1-2 (HPCOM2)	(XZ527A0)		
*	V66742S0	Circuit Board	CS TB1CAN2(HPCOM2)	(XZ527A0)		
C300	UR848100	Electrolytic Cap.	100.00 25.0V			01
C301	UR867100	Electrolytic Cap.	10.00 50.0V			01
C302	UR867100	Electrolytic Cap.	10.00 50.0V			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C305	UR838100	Electrolytic Cap.	100.00 16.0V			01
C306	UR838100	Electrolytic Cap.	100.00 16.0V			01
C309	UR838470	Electrolytic Cap.	470.00 16.0V			01
C310	UR838470	Electrolytic Cap.	470.00 16.0V			01
C311	VE326400	Monolithic Mylar Capacitor	0.22 50V J			01
C312	VE326400	Monolithic Mylar Capacitor	0.22 50V J			01
C400	UR848100	Electrolytic Cap.	100.00 25.0V			01
C401	UR867100	Electrolytic Cap.	10.00 50.0V			01
C402	UR867100	Electrolytic Cap.	10.00 50.0V			01
C405	UR838100	Electrolytic Cap.	100.00 16.0V			01
C406	UR838100	Electrolytic Cap.	100.00 16.0V			01
C409	UR838470	Electrolytic Cap.	470.00 16.0V			01
C410	UR838470	Electrolytic Cap.	470.00 16.0V			01
C411	VE326400	Monolithic Mylar Capacitor	0.22 50V J			01
C412	VE326400	Monolithic Mylar Capacitor	0.22 50V J			01
C451	UR848100	Electrolytic Cap.	100.00 25.0V			01
C452	UR848100	Electrolytic Cap.	100.00 25.0V			01
C700	UR867470	Electrolytic Cap.	47.00 50.0V			01
C701	VJ097400	Electrolytic Cap.-KL	10.00 50.0V			01
C702	VJ097400	Electrolytic Cap.-KL	10.00 50.0V			01
C706	UR819100	Electrolytic Cap.	1000 6.3V			01
C709	UR848100	Electrolytic Cap.	100.00 25.0V			01
C710	UN847470	Electrolytic Cap.-BP	47.00 25.0V			01
C711	UR838100	Electrolytic Cap.	100.00 16.0V			01
C712	UR848100	Electrolytic Cap.	100.00 25.0V			01
	UA353470	Mylar Capacitor	4700P 50V J			01
	UA355100	Mylar Capacitor	0.1000 50V J			01
	UB051220	Monolithic Ceramic Cap.	SL 22P 50V J			01
	UB051470	Monolithic Ceramic Cap.	SL 47P 50V J			01
	UB052100	Monolithic Ceramic Cap.	SL 100P 50V J			01
	UB012220	Monolithic Ceramic Cap.	B 220P 50V K			01
	UB012470	Monolithic Ceramic Cap.	B 470P 50V K			01
	UB044100	Monolithic Ceramic Cap.	F 0.010 50V Z			01
	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z			01
CN100	VB858500	Connector Base Post	PH 6P SE			01
CN103	VB858200	Connector Base Post	PH 3P SE			01
-106	VB858200	Connector Base Post	PH 3P SE			01
CN200	VB858500	Connector Base Post	PH 6P SE			01
CN203	VB858200	Connector Base Post	PH 3P SE			01
-206	VB858200	Connector Base Post	PH 3P SE			01
CN300	VB390400	Connector Base Post	PH 8P TE			01
CN301	VB390100	Connector Base Post	PH 5P TE			01
CN302	VB389900	Connector Base Post	PH 3P TE			01
-305	VB389900	Connector Base Post	PH 3P TE			01
CN500	VB858500	Connector Base Post	PH 6P SE			01
CN503	VB858200	Connector Base Post	PH 3P SE			01
CN504	VB858200	Connector Base Post	PH 3P SE			01
CN600	VI878200	Cable Holder	51048 4P TE			01
CN700	VK024800	Wire Trap	52147 4P TE			01
CN701	VB858500	Connector Base Post	PH 6P SE			01
CN702	VB858200	Connector Base Post	PH 3P SE			01
CN703	VB858500	Connector Base Post	PH 6P SE			01
D700	VS201100	Diode	D1F60			01
D701	VS201100	Diode	D1F60			01
EM301	FZ006970	LC Filter	LS MT Y223NB			02
EM302	FZ006970	LC Filter	LS MT Y223NB			02
EM401	FZ006970	LC Filter	LS MT Y223NB			02
-404	FZ006970	LC Filter	LS MT Y223NB			02
IC300	XP705A00	IC	NJM2073D	POWER AMP. 0.65W 2CH		03
IC301	XJ608A00	IC	NJM7812FA	REGULATOR +12V		02
IC400	XP705A00	IC	NJM2073D	POWER AMP. 0.65W 2CH		03
IC401	XJ608A00	IC	NJM7812FA	REGULATOR +12V		02
IC700	XK866A00	IC	917090	HA		09
JK300	LB302070	Phone Jack	HLJ0544	PHONES		03
JK400	LB302070	Phone Jack	HLJ0544	PHONES		03
JK600	VL958600	XLM Connector	XLM-3-31PCV			08
R300	VH008800	Metal Film Resistor	47.0K 1/4 F			01
R301	VH008800	Metal Film Resistor	47.0K 1/4 F			01
R302	VH005700	Metal Film Resistor	2.4K 1/4 F			01
R303	VH005700	Metal Film Resistor	2.4K 1/4 F			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R304	VH002700	Metal Film Resistor	130.0 1/4 F			01
R305	VH002700	Metal Film Resistor	130.0 1/4 F			01
R306	VH006500	Metal Film Resistor	5.1K 1/4 F			01
R307	VH006500	Metal Film Resistor	5.1K 1/4 F			01
R312	VC742900	Metal Oxide Film Resistor	15.0 1W J			01
R314	VC742900	Metal Oxide Film Resistor	15.0 1W J			01
R400	VH008800	Metal Film Resistor	47.0K 1/4 F			01
R401	VH008800	Metal Film Resistor	47.0K 1/4 F			01
R402	VH005700	Metal Film Resistor	2.4K 1/4 F			01
R403	VH005700	Metal Film Resistor	2.4K 1/4 F			01
R404	VH002700	Metal Film Resistor	130.0 1/4 F			01
R405	VH002700	Metal Film Resistor	130.0 1/4 F			01
R406	VH006500	Metal Film Resistor	5.1K 1/4 F			01
R407	VH006500	Metal Film Resistor	5.1K 1/4 F			01
R412	VC742900	Metal Oxide Film Resistor	15.0 1W J			01
R414	VC742900	Metal Oxide Film Resistor	15.0 1W J			01
R700	VH006800	Metal Film Resistor	6.8K 1/4 F			01
R701	VH009600	Metal Film Resistor	100.0K 1/4 F			01
R702	VH006800	Metal Film Resistor	6.8K 1/4 F			01
R704	VH005500	Metal Film Resistor	2.0K 1/4 F			01
R705	VH005500	Metal Film Resistor	2.0K 1/4 F			01
R706	HV755390	Flame Proof C. Resistor	390.0 1/4 J			01
* R707	VH003500	Metal Film Resistor	300.0 1/4 F			01
R708	VH006400	Metal Film Resistor	4.7K 1/4 F			01
R710	VH000000	Metal Film Resistor	10.0 1/4 F			01
R711	VH000000	Metal Film Resistor	10.0 1/4 F			01
R712	VH007200	Metal Film Resistor	10.0K 1/4 F			01
R713	VH004000	Metal Film Resistor	470.0 1/4 F			01
R714	VF459100	Metal Film Resistor	2.2K 1/4 F			01
R715	VH001500	Metal Film Resistor	43.0 1/4 F			01
R716	VH005500	Metal Film Resistor	2.0K 1/4 F			01
R717	VF459100	Metal Film Resistor	2.2K 1/4 F			01
R718	VH004000	Metal Film Resistor	470.0 1/4 F			01
	HF454150	Carbon Resistor	15.0 1/4 J			01
	RD255750	Carbon Resistor (chip)	750.0 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
RY700	VU685600	Relay	DC NA- 5 W-K			06
RY701	VU685600	Relay	DC NA- 5 W-K			06
RY702	V4494200	Relay	PS7113L-1A			05
TR300	V2993500	Transistor	2SD1979 S,T			01
TR301	V2993500	Transistor	2SD1979 S,T			01
TR400	V2993500	Transistor	2SD1979 S,T			01
TR401	V2993500	Transistor	2SD1979 S,T			01
TR700	VV556400	Transistor	2SC2412K Q,R,S			01
	-702 VV556400	Transistor	2SC2412K Q,R,S			01
* VR100	V6631100	Rotary Variable Resistor	A20K*4	PHONES		
* VR101	V6631100	Rotary Variable Resistor	A20K*4	LEVEL		
* VR200	V6631100	Rotary Variable Resistor	A20K*4	LEVEL		
* VR201	V6631100	Rotary Variable Resistor	A20K*4	PHONES		
* VR500	V6631100	Rotary Variable Resistor	A20K*4	CUE OUT LEVEL		
* VR501	V6631100	Rotary Variable Resistor	A20K*4	TALKBACK1		
* VR502	V6631100	Rotary Variable Resistor	A20K*4	TALKBACK2		
W600	--	Ribbon Cable	P=2.0 #26 4P 50L	(V753660)		
* --	V55471S0	Circuit Board	CS DRL	(XW326C0)		
	--	DR Angle		(V505710)		
	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		2	01
	VL092800	Insulation Sheet	BFG-20AD			02
	V4797200	Transistor Holder				07
	VH610100	Bind Head Screw	3.0X14 MFZN2BL			01
C100	UR739470	Electrolytic Cap.	4700 16.0V			02
C103	UR837470	Electrolytic Cap.	47.00 16.0V			01
	FG644100	Ceramic Capacitor-F	0.01 50V Z			01
CN100	VB390800	Connector Base Post	PH 12P TE			01
CN101	VB389800	Connector Base Post	PH 2P TE			01
EM1	FZ007010	LC Filter	LS MT X222MB			01
* FZ100	VV457600	Protector Switch	RUE090 0.90A 30V			02
R102	VC740900	Metal Oxide Film Resistor	2.2 1W J			01
R105	VC740500	Metal Oxide Film Resistor	1.5 1W J			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
TR100	HF757100	Carbon Resistor	10.0K 1/4 J			01
TR102	IB059600	Transistor	2SB596LBB O,Y			04
TR102	IC1815M0	Transistor	2SC1815 Y,GR			01
TR104	IC1815M0	Transistor	2SC1815 Y,GR			01
*	V45662S0	Circuit Board	CS DRN	(XW326C0)		
	--	DR Angle		(V505710)		
	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		2	01
	VL092800	Insulation Sheet	BFG-20AD			02
	VM512200	Transistor Holder				05
	VH610100	Bind Head Screw	3.0X14 MFZN2BL			01
C100	UR739470	Electrolytic Cap.	4700 16.0V			02
C103	UR837470	Electrolytic Cap.	47.00 16.0V			01
C104	UR739470	Electrolytic Cap.	4700 16.0V			02
	FG644100	Ceramic Capacitor-F	0.01 50V Z			01
CN100	VB390800	Connector Base Post	PH-12P TE			01
CN101	VB389800	Connector Base Post	PH- 2P TE			01
CN102	VB389900	Connector Base Post	PH- 3P TE			01
EM1	FZ007010	LC Filter	LS MT X222MB			01
FZ100	VV457600	Protector Switch	RUE090 0.90A 30V			02
TR100	IB059600	Transistor	2SB596LBB O,Y			04
TR101	IB059600	Transistor	2SB596LBB O,Y			04
TR102	IC1815M0	Transistor	2SC1815 Y,GR			01
-105	IC1815M0	Transistor	2SC1815 Y,GR			01
R102	VC740900	Metal Oxide Film Resistor	2.2 1W J			01
R105	VC740500	Metal Oxide Film Resistor	1.5 1W J			01
R106	VC740900	Metal Oxide Film Resistor	2.2 1W J			01
	HF757100	Carbon Resistor	10.0K 1/4 J			01
*	V47063S0	Circuit Board	CS DRS	(XW326C0)		
	--	DR Angle		(V505710)		
	EP600230	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		2	01
	VL092800	Insulation Sheet	BFG-20AD			02
	VM512200	Transistor Holder				05
	VH610100	Bind Head Screw	3.0X14 MFZN2BL			01
	--	Jumper Wire	0.55	(VA07890)		
C100	UR739470	Electrolytic Cap.	4700 16.0V			02
C103	UR837470	Electrolytic Cap.	47.00 16.0V			01
C104	UR739470	Electrolytic Cap.	4700 16.0V			02
C105	UR837100	Electrolytic Cap.	10.00 16.0V			01
	FG644100	Ceramic Capacitor-F	0.01 50V Z			01
CN100	VB390800	Connector Base Post	PH-12P TE			01
CN101	VB389800	Connector Base Post	PH- 2P TE			01
CN102	VB389900	Connector Base Post	PH- 3P TE			01
EM1	FZ007010	LC Filter	LS MT X222MB			01
FZ100	VV457600	Protector Switch	RUE090 0.90A 30V			02
R102	VC740900	Metal Oxide Film Resistor	2.2 1W J			01
R105	VC740500	Metal Oxide Film Resistor	1.5 1W J			01
R106	VC740900	Metal Oxide Film Resistor	2.2 1W J			01
	HF755680	Carbon Resistor	680.0 1/4 J			01
	HF757100	Carbon Resistor	10.0K 1/4 J			01
SW100	VQ907900	Slide Switch	SSSU112-S06N-1			01
TR100	IB059600	Transistor	2SB596LBB O,Y			04
TR101	IB059600	Transistor	2SB596LBB O,Y			04
TR102	IC1815M0	Transistor	2SC1815 Y,GR			01
-105	IC1815M0	Transistor	2SC1815 Y,GR			01
ZD100	VG438100	Zener Diode	MTZ J 6.2C 6.2V			01
*	V41112S0	Circuit Board	CS INCPU	(XW317B0)		
C18	UF037100	Electrolytic Cap. (chip)	10 16V			01
C45	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
-50	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C51	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
-56	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C69	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
-74	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C75	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
-80	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C99	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
-103	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C300	UF027220	Electrolytic Cap. (chip)	22 10V			01
	UB012470	Monolithic Ceramic Cap.	B 470P 50V K			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN1	VB390800	Connector Base Post	PH-12P TE			01
CN2	VO022100	Connector, FFC	52045 40P TE			02
CN3	VO022100	Connector, FFC	52045 40P TE			02
CN4	VF283400	Connector Base Post	PH-16P TE			01
CN5	VF283400	Connector Base Post	PH-16P TE			01
CN6	VO022100	Connector, FFC	52045 40P TE			02
CN7	VB389900	Connector Base Post	PH- 3P TE			01
-9	VB389900	Connector Base Post	PH- 3P TE			01
CN13	VB389900	Connector Base Post	PH- 3P TE			01
-18	VB389900	Connector Base Post	PH- 3P TE			01
CN22	VB389900	Connector Base Post	PH- 3P TE			01
-24	VB389900	Connector Base Post	PH- 3P TE			01
CN28	VA030400	Base Post Connector	5483 4P TE			01
-33	VA030400	Base Post Connector	5483 4P TE			01
CN37	VA030400	Base Post Connector	5483 4P TE			01
-2	VA030400	Base Post Connector	5483 4P TE			01
CN43	VK025200	Wire Trap	52147 8P TE			01
CN44	VK025100	Wire Trap	52147 7P TE			01
CN45	VK025200	Wire Trap	52147 8P TE			01
CN46	VK025100	Wire Trap	52147 7P TE			01
CN47	VK025200	Wire Trap	52147 8P TE			01
CN48	VK025100	Wire Trap	52147 7P TE			01
CN49	VK025200	Wire Trap	52147 8P TE			01
CN50	VK025100	Wire Trap	52147 7P TE			01
CN51	VK025200	Wire Trap	52147 8P TE			01
CN52	VK025100	Wire Trap	52147 7P TE			01
CN53	VK025200	Wire Trap	52147 8P TE			01
CN54	VK025100	Wire Trap	52147 7P TE			01
CN55	VK025200	Wire Trap	52147 8P TE			01
CN56	VK025100	Wire Trap	52147 7P TE			01
CN57	VK025200	Wire Trap	52147 8P TE			01
CN58	VK025100	Wire Trap	52147 7P TE			01
CN59	VK025200	Wire Trap	52147 8P TE			01
CN60	VK025100	Wire Trap	52147 7P TE			01
CN61	VK025200	Wire Trap	52147 8P TE			01
CN62	VK025100	Wire Trap	52147 7P TE			01
CN63	VK025200	Wire Trap	52147 8P TE			01
CN64	VK025100	Wire Trap	52147 7P TE			01
CN65	VK025200	Wire Trap	52147 8P TE			01
CN66	VK025100	Wire Trap	52147 7P TE			01
EM2	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
EM3	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
* EM4	V6246100	EMI Filter (chip)	NFM3212R13C223RT1			01
* EM5	V6246100	EMI Filter (chip)	NFM3212R13C223RT1			01
EM6	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
EM7	FZ006970	LC Filter	LS MT Y223NB			02
-11	FZ006970	LC Filter	LS MT Y223NB			02
* IC1	XV685A00	IC	MBM29F400BC-70PFTN	FLASH ROM 4M		11
IC2	XY715A00	IC	HD6437042AF28	CPU		10
* IC3	IS013810	IC	SN74LV138ANSR	DECODER		01
* IC4	IS013810	IC	SN74LV138ANSR	DECODER		01
* IC5	IS027300	IC	HD74LV273AFPEL	D-FF		02
IC6	XT163A00	IC	TC74HC238AF	LINE DECODER		03
* IC7	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
* IC8	XV013A00	IC	TB62705CF	LED DRIVER		04
* -10	XV013A00	IC	TB62705CF	LED DRIVER		04
* IC11	IS405210	IC	SN74LV4052ANSR	MULTIPLEXER		02
* -13	IS405210	IC	SN74LV4052ANSR	MULTIPLEXER		02
* IC14	IS027300	IC	HD74LV273AFPEL	D-FF		02
* -18	IS027300	IC	HD74LV273AFPEL	D-FF		02
IC19	XH610A00	IC	HD74LS06FPEL	INVERTER		02
IC20	XF557A00	IC	TA7291S	MOTOR DRIVER		03
-25	XF557A00	IC	TA7291S	MOTOR DRIVER		03
IC26	XH610A00	IC	HD74LS06FPEL	INVERTER		02
IC27	XF557A00	IC	TA7291S	MOTOR DRIVER		03
-32	XF557A00	IC	TA7291S	MOTOR DRIVER		03
* IC33	XV973A00	IC	SGH603064F-62F	GATE ARRAY		07

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* -35	XV973A00	IC	SGH603064F-62F	GATE ARRAY		07
IC36	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC37	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC38	XP226A00	IC	IC-PST591DMT	SYSTEM RESET		03
IC39	IS000800	IC	HD74LV08AFPEL	AND		01
* LD1	V3990300	LED	TLSU1008 RE			01
R36	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
-41	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R54	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
-59	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R79	HV754100	Flame Proof C. Resistor	10.0 1/4 J			01
-90	HV754100	Flame Proof C. Resistor	10.0 1/4 J			01
	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
	RD254820	Carbon Resistor (chip)	82.0 0.1 J			01
	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
	RD255330	Carbon Resistor (chip)	330.0 0.1 J			01
	RD255390	Carbon Resistor (chip)	390.0 0.1 J			01
	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
	RD256300	Carbon Resistor (chip)	3.0K 0.1 J			01
	RD256220	Carbon Resistor (chip)	2.2K 0.1 J			01
	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
RA1	RE047100	Resistor Array	10KX4			01
-19	RE047100	Resistor Array	10KX4			01
* RA20	RE046220	Resistor Array	2.2KX4			01
* -23	RE046220	Resistor Array	2.2KX4			01
TA1	VQ248500	Transistor Array	TD62381F			04
* X1	V3990700	Ceramic Resonator	CSTCC7.16MG0H6-TC			01
* C16	V41115S0	Circuit Board	CS ISCPU	(XW320B0)		01
C17	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C34	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C35	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C36	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C37	UF118220	Electrolytic Cap. (chip)	220 6.3V UUR0J2			01
C144	UF148220	Electrolytic Cap. (chip)	220 25V UUR1E2			02
C145	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C300	UF118220	Electrolytic Cap. (chip)	220 6.3V UUR0J2			01
	UF027220	Electrolytic Cap. (chip)	22 10V			01
	UB012470	Monolithic Ceramic Cap.	B 470P 50V K			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN1	VB389900	Connector Base Post	PH- 3P TE			01
CN2	VA030400	Base Post Connector	5483 4P TE			01
CN3	VB390600	Connector Base Post	PH-10P TE			01
CN4	VQ047700	Connector, FFC	52045 22P TE			01
CN5	LB932060	Base Post Connector	VH- 6P TE			01
CN6	VN520900	Connector, FFC	52045 26P TE			02
CN7	VO022100	Connector, FFC	52045 40P TE			02
-10	VO022100	Connector, FFC	52045 40P TE			02
CN11	LB932070	Base Post Connector	VH- 7P TE			01
CN12	VK025600	Wire Trap	52147 12P TE			01
-17	VK024900	Wire Trap	52147 5P TE			01
EM1	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
EM2	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
* EM3	V6246100	EMI Filter (chip)	NFM3212R13C223RT1			01
EM4	FZ006970	LC Filter	LS MT Y223NB			02
-7	FZ006970	LC Filter	LS MT Y223NB			02
EM8	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
EM9	FZ006970	LC Filter	LS MT Y223NB			02
EM10	FZ006970	LC Filter	LS MT Y223NB			02
* IC1	XV685A00	IC	MBM29F400BC-70PFTN	FRASH ROM 4M		11
IC2	XY715A00	IC	HD6437042AF28	CPU		10
* IC3	IS013810	IC	SN74LV138ANSR	DECODER		01
IC4	XT163A00	IC	TC74HC238AF	LINE DECODER		03
* IC5	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC6	IS027300	IC	HD74LV273AFPEL	D-FF		02
IC7	XH610A00	IC	HD74LS06FPEL	INVERTER		02
IC8	XF557A00	IC	TA7291S	MOTOR DRIVER		03
* IC9	IS405210	IC	SN74LV4052ANSR	MULTIPLEXER		02

*: New Parts

RANK: Japan only

CS1D

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* IC10	IS405210	IC	SN74LV4052ANSR	MULTIPLEXER		02
* IC11	IS013810	IC	SN74LV138ANSR	DECODER		01
* IC12	XV973A00	IC	SGH603064F-62F	GATE ARRAY		07
* -15	XV973A00	IC	SGH603064F-62F	GATE ARRAY		07
IC16	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC17	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC18	XP226A00	IC	IC-PST591DMT	SYSTEM RESET		03
IC19	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC20	IS000800	IC	HD74LV08AFPEL	AND		01
IC21	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* LD1	V3990300	LED	TLSU1008 RE			01
R17	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R36	HV754100	Flame Proof C. Resistor	10.0 1/4 J			01
	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
	RD255330	Carbon Resistor (chip)	330.0 0.1 J			01
	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
	RD256300	Carbon Resistor (chip)	3.0K 0.1 J			01
	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
RA1	RE047100	Resistor Array	10KX4			01
-19	RE047100	Resistor Array	10KX4			01
* RA20	RE046220	Resistor Array	2.2KX4			01
* RA21	RE046220	Resistor Array	2.2KX4			01
TA1	VQ248500	Transistor Array	TD62381F			04
* X1	V3990700	Ceramic Resonator	CSTCC7.16MG0H6-TC			01
	V47045S0	Circuit Board	CS LAMPVR (CSCOM)	(XW354B0)		
	V47326S0	Circuit Board	CS LCDC (CSCOM)	(XW354B0)		
	V47325S0	Circuit Board	CS LCDIF (CSCOM)	(XW354B0)		
	V41134S0	Circuit Board	CS MB22 (CSCOM)	(XW354B0)		
	V45134S0	Circuit Board	CS MTG (CSCOM)	(XW354B0)		
	V45136S0	Circuit Board	CS PNC2 (CSCOM)	(XW354B0)		
	V47044S0	Circuit Board	CS PS2HP (CSCOM)	(XW354B0)		
C101	UF118330	Electrolytic Cap. (chip)	330 6.3V UUR0J3			01
C209	UF147470	Electrolytic Cap. (chip)	47 25V UUR1E4			01
C212	UF066100	Electrolytic Cap. (chip)	1 50V			01
C213	UF066100	Electrolytic Cap. (chip)	1 50V			01
	FG444100	Ceramic Capacitor-F	0.01 50V Z			01
	UB051220	Monolithic Ceramic Cap.	SL 22P 50V J			01
	UB051470	Monolithic Ceramic Cap.	SL 47P 50V J			01
	UB052100	Monolithic Ceramic Cap.	SL 100P 50V J			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN101	VB390100	Connector Base Post	PH- 5P TE			01
CN102	--	Header, Flat Cable	5332 40P TE	(V451020)		
CN103	VB390800	Connector Base Post	PH-12P TE			01
-106	VB390800	Connector Base Post	PH-12P TE			01
CN107	VB390600	Connector Base Post	PH-10P TE			01
-110	VB390600	Connector Base Post	PH-10P TE			01
CN201	VK025600	Wire Trap	52147 12P TE			01
CN202	VF728200	Wire Trap	52147 10P TE			01
CN203	VR147400	Connector, Base Pin	D-SUB JBY 25P SE			05
CN301	VF283300	Connector Base Post	PH-15P SE			01
CN302	VE352600	Connector Base Post	PH-14P SE			01
CN303	VB390800	Connector Base Post	PH-12P SE			01
CN304	--	Receptacle	DF9 41P TE	(V446990)		
CN401	VB858100	Connector Base Post	PH- 2P SE			01
CN501	VB390600	Connector Base Post	PH-10P TE			01
CN502	VU328200	Plug	PHEC 100P TE			05
CN503	--	Header, Flat Cable	5332 30P TE	(V414610)		
CN601	VB858500	Connector Base Post	PH- 6P SE			01
CN602	VB858700	Connector Base Post	PH- 8P SE			01
CN701	VB390000	Connector Base Post	PH- 4P TE			01
EM101	FZ006970	LC Filter	LS MT Y223NB			02
EM102	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
-105	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
* EM106	V6246100	EMI Filter (chip)	NFM3212R13C223RT1			01
* -109	V6246100	EMI Filter (chip)	NFM3212R13C223RT1			01
EM110	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
-119	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
* EM120	V6246100	EMI Filter (chip)	NFM3212R13C223RT1			01
* -123	V6246100	EMI Filter (chip)	NFM3212R13C223RT1			01
EM124	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
-131	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
EM201	VL534100	LC Filter	NFA81R00C101			05
EM202	VL534100	LC Filter	NFA81R00C101			05
EM203	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
EM204	FZ006920	LC Filter	LS MT B271KB			01
EM205	FZ006920	LC Filter	LS MT B271KB			01
EM501	FZ006970	LC Filter	LS MT Y223NB			02
-504	FZ006970	LC Filter	LS MT Y223NB			02
EM601	FZ006970	LC Filter	LS MT Y223NB			02
-604	FZ006970	LC Filter	LS MT Y223NB			02
EM605	FZ006920	LC Filter	LS MT B271KB			01
-608	FZ006920	LC Filter	LS MT B271KB			01
EM609	FZ006970	LC Filter	LS MT Y223NB			02
EM610	FZ006970	LC Filter	LS MT Y223NB			02
FZ701	VV216100	Protector Switch	RXE050 0.50A 60V			03
IC101	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-107	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC108	IS000800	IC	HD74LV08AFPEL	AND		01
IC109	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-112	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC113	IS008600	IC	HD74LV86AFPEL	EX-OR		01
IC201	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC202	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC203	IS027300	IC	HD74LV273AFPEL	D-FF		02
IC204	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC205	IG156700	IC	UPC319G2	COMPARATOR		05
IC206	XA862B00	IC	NJM4560M(T1)	OP AMP		02
IC301	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-303	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
JK201	VL958600	XLM Connector	XLM-3-31PCV			08
* JK601	V2452000	Jack, Mini DIN	6P TCS7927			04
* JK602	V2452000	Jack, Mini DIN	6P TCS7927			04
JK603	LB302070	Phone Jack	HLJ0544			03
JK604	LB302070	Phone Jack	HLJ0544			03
R204	HV754100	Flame Proof C. Resistor	10.0 1/4 J			01
-211	HV754100	Flame Proof C. Resistor	10.0 1/4 J			01
	HF756150	Carbon Resistor	1.5K 1/4 J			01
	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
	RD256360	Carbon Resistor (chip)	3.6K 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
RA101	RE047100	Resistor Array	10KX4			01
-104	RE047100	Resistor Array	10KX4			01
RA201	RE048100	Resistor Array	100KX4			01
RA202	RE047100	Resistor Array	10KX4			01
RA203	RE048100	Resistor Array	100KX4			01
RA204	RE047100	Resistor Array	10KX4			01
RA205	RE047100	Resistor Array	10KX4			01
RA206	RE047470	Resistor Array	47KX4			01
RA207	RE047470	Resistor Array	47KX4			01
TA201	VQ248500	Transistor Array	TD62381F			04
TH201	VV216100	Protector Switch	RXE050 0.50A 60V			03
TH601	VV216100	Protector Switch	RXE050 0.50A 60V			03
TH602	VV216100	Protector Switch	RXE050 0.50A 60V			03
* VR401	V4480400	Rotary Variable Resistor	B10.0K RK09K113			01
VR701	VP128200	Rotary Variable Resistor	B5K&DMY DMY*2 RK09			05
* C1	V41133S0	Circuit Board	CS MB21	(XW355A0)		01
C2	UR828220	Electrolytic Cap.	220.00 10.0V			01
CN1	--	Header, Flat Cable	5332 50P TE	(V414590)		01
CN2	LB932060	Base Post Connector	VH- 6P TE			01
CN3	LB932060	Base Post Connector	VH- 6P TE			01
CN4	VO022100	Connector, FFC	52045 40P TE			02
-6	VO022100	Connector, FFC	52045 40P TE			02
CN7	VU328200	Plug	PHEC 100P TE			05

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
-9	VU328200	Plug	PHEC 100P TE			05
CN10	VU328200	Plug	PHEC 100P TE			05
-15	VU328200	Plug	PHEC 100P TE			05
EM1	FZ006970	LC Filter	LS MT Y223NB			02
EM2	FZ006970	LC Filter	LS MT Y223NB			02
* C1	V45140S0	Circuit Board	CS MB23	(XW669B0)		
	UR838100	Electrolytic Cap.	100.00 16.0V			01
	VC694800	Semiconductive Cera. Cap.	0.1000 25V Z			01
CN101	--	Header, Flat Cable	5332 40P TE	(V451020)		
CN102	VZ581300	Receptacle	52480 96P TE			05
-107	VZ581300	Receptacle	52480 96P TE			05
CN108	--	Header, Flat Cable	5332 20P TE	(V451070)		
CN109	--	Header, Flat Cable	5332 50P TE	(V414590)		
CN110	LB932040	Base Post Connector	VH- 4P TE			01
CN111	LB932040	Base Post Connector	VH- 4P TE			01
CN113	VB390000	Connector Base Post	PH- 4P TE			01
CN114	LB932060	Base Post Connector	VH- 6P TE			01
D1	VF195600	Diode	11ES4 TA1			01
D2	VF195600	Diode	11ES4 TA1			01
* IC101	XW196A00	IC	UPC2933HF	REGULATOR +3.3V		03
C100	--	Circuit Board	CS MIO	(V438190)(XW568A0)		
C205	UF038100	Electrolytic Cap. (chip)	100 16V			01
	UF037470	Electrolytic Cap. (chip)	47 16V			01
	VR327300	Mylar Capacitor (chip)	0.082 16V J			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
	UB445330	Monolithic Ceramic Cap.	F 0.33 16V Z			01
CN100	VT640300	Receptacle	PHEC 100P SE			04
* CN300	V4158600	Connector	230R(SCSI) 68P SE			06
DA300	VV556300	Diode Array	DAN217 0.3A X2			01
-342	VV556300	Diode Array	DAN217 0.3A X2			01
EM100	FZ006970	LC Filter	LS MT Y223NB			02
EM300	VL534100	LC Filter	NFA81R00C101			05
EM301	VL534100	LC Filter	NFA81R00C101			05
EM302	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
EM303	VL534100	LC Filter	NFA81R00C101			05
EM304	VL534100	LC Filter	NFA81R00C101			05
EM305	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
-307	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
IC100	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC101	IS013810	IC	SN74LV138ANSR	DECODER		01
IC102	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC103	IS027300	IC	HD74LV273AFPEL	D-FF		02
IC104	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-107	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC108	IS000800	IC	HD74LV08AFPEL	AND		01
* IC109	IS003200	IC	HD74LV32AFPEL	OR		01
IC200	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC202	XG948E00	IC	YM3436DK	DIR2		11
IC203	XU235A00	IC	SGH609080F-47F	ATSC		10
* IC206	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC207	XW422A00	IC	M51953AFP	SYSTEM RESET		01
* IC208	IS000800	IC	HD74LV08AFPEL	AND		01
IC300	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC301	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC302	IS027300	IC	HD74LV273AFPEL	D-FF		02
IC303	XQ544A00	IC	DS26C32ATM	LINE RECEIVER		06
IC304	XQ544A00	IC	DS26C32ATM	LINE RECEIVER		06
IC305	XU996A00	IC	AM26LS31CNSR	LINE DRIVER		05
-307	XU996A00	IC	AM26LS31CNSR	LINE DRIVER		05
IC308	XQ544A00	IC	DS26C32ATM	LINE RECEIVER		06
L100	VS740100	Chip Inductance	BLM21B751S 2125			03
-112	VS740100	Chip Inductance	BLM21B751S 2125			03
L114	VS740100	Chip Inductance	BLM21B751S 2125			03
-138	VS740100	Chip Inductance	BLM21B751S 2125			03
RA100	RE048100	Resistor Array	100KX4			01
-107	RE048100	Resistor Array	100KX4			01
RA200	RE048100	Resistor Array	100KX4			01
RA201	RE048100	Resistor Array	100KX4			01

*: New Parts

RANK: Japan only

REF. NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
	RD255150	Carbon Resistor (chip)	150.0 0.1 J			01
	RD255470	Carbon Resistor (chip)	470.0 0.1 J			01
	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
	RD256330	Carbon Resistor (chip)	3.3K 0.1 J			01
	RD257220	Carbon Resistor (chip)	22.0K 0.1 J			01
* V66735S0		Circuit Board	CS MO1-2 (MOCOM)	(XZ522A0)		
* V66736S0		Circuit Board	CS MO2-2 (MOCOM)	(XZ522A0)		
C403	UR867100	Electrolytic Cap.	10.00 50.0V			01
C405	UR867100	Electrolytic Cap.	10.00 50.0V			01
C409	UR867100	Electrolytic Cap.	10.00 50.0V			01
C413	UR867100	Electrolytic Cap.	10.00 50.0V			01
C417	UR867100	Electrolytic Cap.	10.00 50.0V			01
C418	UR867100	Electrolytic Cap.	10.00 50.0V			01
C420	UR867100	Electrolytic Cap.	10.00 50.0V			01
C421	UR867100	Electrolytic Cap.	10.00 50.0V			01
C423	UR847470	Electrolytic Cap.	47.00 25.0V			01
-430	UR847470	Electrolytic Cap.	47.00 25.0V			01
C453	UR867100	Electrolytic Cap.	10.00 50.0V			01
C454	UR867100	Electrolytic Cap.	10.00 50.0V			01
C456	UR867100	Electrolytic Cap.	10.00 50.0V			01
C457	UR867100	Electrolytic Cap.	10.00 50.0V			01
C463	UR867100	Electrolytic Cap.	10.00 50.0V			01
-466	UR867100	Electrolytic Cap.	10.00 50.0V			01
C475	UR847470	Electrolytic Cap.	47.00 25.0V			01
-478	UR847470	Electrolytic Cap.	47.00 25.0V			01
C479	V5829300	Electrolytic Cap.	100 16V 16SG100M+T			04
C480	UR867100	Electrolytic Cap.	10.00 50.0V			01
-483	UR867100	Electrolytic Cap.	10.00 50.0V			01
C486	V5829200	Electrolytic Cap.	100 20V 20SG100M+T			04
C487	V5829200	Electrolytic Cap.	100 20V 20SG100M+T			04
* C496	V5618000	Electrolytic Cap.	100.00 16.0V			
* -503	V5618000	Electrolytic Cap.	100.00 16.0V			
C510	V5829300	Electrolytic Cap.	100 16V 16SG100M+T			04
C603	UR867100	Electrolytic Cap.	10.00 50.0V			01
C606	UR867100	Electrolytic Cap.	10.00 50.0V			01
C610	UR867100	Electrolytic Cap.	10.00 50.0V			01
C611	UR867100	Electrolytic Cap.	10.00 50.0V			01
C613	UR847470	Electrolytic Cap.	47.00 25.0V			01
-616	UR847470	Electrolytic Cap.	47.00 25.0V			01
C618	UR867470	Electrolytic Cap.	47.00 50.0V			01
C622	V5829300	Electrolytic Cap.	100 16V 16SG100M+T			04
C631	V5829200	Electrolytic Cap.	100 20V 20SG100M+T			04
C632	V5829200	Electrolytic Cap.	100 20V 20SG100M+T			04
C634	UR867100	Electrolytic Cap.	10.00 50.0V			01
C635	UR867100	Electrolytic Cap.	10.00 50.0V			01
C636	VJ097400	Electrolytic Cap.-KL	10.00 50.0V			01
C637	VJ097400	Electrolytic Cap.-KL	10.00 50.0V			01
C639	UR867100	Electrolytic Cap.	10.00 50.0V			01
C640	UR867100	Electrolytic Cap.	10.00 50.0V			01
C650	UR819100	Electrolytic Cap.	1000 6.3V			01
C654	UR847470	Electrolytic Cap.	47.00 25.0V			01
C655	UR847470	Electrolytic Cap.	47.00 25.0V			01
C657	UR848100	Electrolytic Cap.	100.00 25.0V			01
C658	UR848100	Electrolytic Cap.	100.00 25.0V			01
C659	UN847470	Electrolytic Cap.-BP	47.00 25.0V			01
C660	UR867100	Electrolytic Cap.	10.00 50.0V			01
C661	UR867100	Electrolytic Cap.	10.00 50.0V			01
* C668	V5618000	Electrolytic Cap.	100.00 16.0V			
* -671	V5618000	Electrolytic Cap.	100.00 16.0V			
C676	V5829300	Electrolytic Cap.	100 16V 16SG100M+T			04
	UA353300	Mylar Capacitor	3000P 50V J			01
	UA353680	Mylar Capacitor	6800P 50V J			01
	UB051330	Monolithic Ceramic Cap.	SL 33P 50V J			01
	UB051470	Monolithic Ceramic Cap.	SL 47P 50V J			01
	UB051560	Monolithic Ceramic Cap.	SL 56P 50V J			01
	UB052100	Monolithic Ceramic Cap.	SL 100P 50V J			01
	UB012470	Monolithic Ceramic Cap.	B 470P 50V K			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	UB014100	Monolithic Ceramic Cap.	B 0.01 50V K			01
	UB044100	Monolithic Ceramic Cap.	F 0.010 50V Z			01
	UB245100	Monolithic Ceramic Cap.	F 0.100 25V Z			01
CN400	VK015500	Connector Base Post	PH 15P SE			01
CN401	--	Connector Assembly	SAN&PH 11P 200L	(VM65580)		
CN402	VB390200	Connector Base Post	PH 6P TE			01
CN403	VB390200	Connector Base Post	PH 6P TE			01
CN404	VB858700	Connector Base Post	PH 8P SE			01
CN405	VB858200	Connector Base Post	PH 3P SE			01
CN406	VB858700	Connector Base Post	PH 8P SE			01
CN600	VB389600	Connector Base Post	PH 11P SE			01
CN601	VB858900	Connector Base Post	PH 10P SE			01
CN602	VB858200	Connector Base Post	PH 3P SE			01
CN603	--	Connector Assembly	SAN&PH 8P 200L	(VP91350)		
CN604	VB858100	Connector Base Post	PH 2P SE			01
CN605	VB390200	Connector Base Post	PH 6P TE			01
CN606	VB858500	Connector Base Post	PH 6P SE			01
D400	VS201100	Diode	D1F60			01
D401	VS201100	Diode	D1F60			01
D600	VS201100	Diode	D1F60			01
-602	VS201100	Diode	D1F60			01
EM400	FZ006970	LC Filter	LS MT Y223NB			02
EM401	FZ006920	LC Filter	LS MT B271KB			01
-410	FZ006920	LC Filter	LS MT B271KB			01
EM411	FZ006970	LC Filter	LS MT Y223NB			02
EM600	FZ006970	LC Filter	LS MT Y223NB			02
EM601	FZ006920	LC Filter	LS MT B271KB			01
-606	FZ006920	LC Filter	LS MT B271KB			01
EM607	FZ006970	LC Filter	LS MT Y223NB			02
IC400	XP844A00	IC	NJM4556AL	OP AMP		02
-403	XP844A00	IC	NJM4556AL	OP AMP		02
IC404	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
-407	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC408	XW029A00	IC	AK4393-VF-E2	DAC		07
IC409	XW029A00	IC	AK4393-VF-E2	DAC		07
IC410	XJ598A00	IC	NJM78L05UA	REGULATOR +5V		02
IC411	XJ598A00	IC	NJM78L05UA	REGULATOR +55V		02
IC412	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC413	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC414	IS000400	IC	HD74LV04AFPEL	INVERTER		01
IC415	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC416	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC600	XK866A00	IC	917090	HA		09
IC601	XP844A00	IC	NJM4556AL	OP AMP		02
IC602	XP844A00	IC	NJM4556AL	OP AMP		02
IC603	XW029A00	IC	AK4393-VF-E2	DAC		07
IC604	XJ598A00	IC	NJM78L05UA	REGULATOR +5V		02
IC605	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC606	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC607	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC608	IS000400	IC	HD74LV04AFPEL	INVERTER		01
IC609	XJ553A00	IC	NJM2068MD-T1	OP AMP		02
IC610	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
JK400	VL958700	XLM Connector	XLM-3-32PCV	MONITOR OUT ANALOG A L		07
JK401	VL958700	XLM Connector	XLM-3-32PCV	MONITOR OUT ANALOG A R		07
JK402	VL958700	XLM Connector	XLM-3-32PCV	MONITOR OUT ANALOG B L		07
JK403	VL958700	XLM Connector	XLM-3-32PCV	MONITOR OUT ANALOG B R		07
JK600	VL958600	XLM Connector	XLM-3-31PCV	TALKBACK IN2		08
JK601	VL958700	XLM Connector	XLM-3-32PCV	CUE OUT ANALOG L		07
JK602	VL958700	XLM Connector	XLM-3-32PCV	CUE OUT ANALOG R		07
K400	VI474400	Terminal Plate				01
K600	VI474400	Terminal Plate				01
L400	V2589800	Chip Inductance	BK2125LM751-T			01
-405	V2589800	Chip Inductance	BK2125LM751-T			01
L406	GE300610	Ferrite Bead	BL02RN1-R62T4			01
L407	GE300610	Ferrite Bead	BL02RN1-R62T4			01
L600	V2589800	Chip Inductance	BK2125LM751-T			01
-604	V2589800	Chip Inductance	BK2125LM751-T			01
L605	GE300610	Ferrite Bead	BL02RN1-R62T4			01
R406	VH006200	Metal Film Resistor	3.9K 1/4 F			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
-413	VH006200	Metal Film Resistor	3.9K 1/4 F			01
R414	VH007800	Metal Film Resistor	18.0K 1/4 F			01
-421	VH007800	Metal Film Resistor	18.0K 1/4 F			01
R422	VH001400	Metal Film Resistor	39.0 1/4 F			01
-425	VH001400	Metal Film Resistor	39.0 1/4 F			01
R426	VH004800	Metal Film Resistor	1.0K 1/4 F			01
-433	VH004800	Metal Film Resistor	1.0K 1/4 F			01
R438	VH008800	Metal Film Resistor	47.0K 1/4 F			01
-441	VH008800	Metal Film Resistor	47.0K 1/4 F			01
R450	VH005000	Metal Film Resistor	1.2K 1/4 F			01
-453	VH005000	Metal Film Resistor	1.2K 1/4 F			01
R468	VH007200	Metal Film Resistor	10.0K 1/4 F			01
-475	VH007200	Metal Film Resistor	10.0K 1/4 F			01
R476	VH007300	Metal Film Resistor	11.0K 1/4 F			01
R477	VH007200	Metal Film Resistor	10.0K 1/4 F			01
R478	VH007300	Metal Film Resistor	11.0K 1/4 F			01
R479	VH007200	Metal Film Resistor	10.0K 1/4 F			01
R480	VH007300	Metal Film Resistor	11.0K 1/4 F			01
R481	VH007200	Metal Film Resistor	10.0K 1/4 F			01
R482	VH007300	Metal Film Resistor	11.0K 1/4 F			01
R483	VH007200	Metal Film Resistor	10.0K 1/4 F			01
R484	VH007900	Metal Film Resistor	20.0K 1/4 F			01
-491	VH007900	Metal Film Resistor	20.0K 1/4 F			01
R492	VH007800	Metal Film Resistor	18.0K 1/4 F			01
-499	VH007800	Metal Film Resistor	18.0K 1/4 F			01
R500	VH002100	Metal Film Resistor	75.0 1/4 F			01
-507	VH002100	Metal Film Resistor	75.0 1/4 F			01
R605	VH006200	Metal Film Resistor	3.9K 1/4 F			01
-608	VH006200	Metal Film Resistor	3.9K 1/4 F			01
R609	VH009600	Metal Film Resistor	100.0K 1/4 F			01
R610	VH007800	Metal Film Resistor	18.0K 1/4 F			01
R611	VH007800	Metal Film Resistor	18.0K 1/4 F			01
R612	VH006800	Metal Film Resistor	6.8K 1/4 F			01
R613	VH007800	Metal Film Resistor	18.0K 1/4 F			01
R614	VH007800	Metal Film Resistor	18.0K 1/4 F			01
R615	VH006800	Metal Film Resistor	6.8K 1/4 F			01
R616	VH001400	Metal Film Resistor	39.0 1/4 F			01
R617	VH001400	Metal Film Resistor	39.0 1/4 F			01
R618	VH004800	Metal Film Resistor	1.0K 1/4 F			01
R619	VH004800	Metal Film Resistor	1.0K 1/4 F			01
R621	VH005500	Metal Film Resistor	2.0K 1/4 F			01
R622	VH005500	Metal Film Resistor	2.0K 1/4 F			01
R623	VH004800	Metal Film Resistor	1.0K 1/4 F			01
R624	VH004800	Metal Film Resistor	1.0K 1/4 F			01
R625	HV755390	Flame Proof C. Resistor	390.0 1/4 J			01
* R627	VH003500	Metal Film Resistor	300.0 1/4 F			01
R628	VH006400	Metal Film Resistor	4.7K 1/4 F			01
R629	VH000000	Metal Film Resistor	10.0 1/4 F			01
R630	VH000000	Metal Film Resistor	10.0 1/4 F			01
R633	VH008800	Metal Film Resistor	47.0K 1/4 F			01
R634	VH008800	Metal Film Resistor	47.0K 1/4 F			01
R635	VH007200	Metal Film Resistor	10.0K 1/4 F			01
R638	VH004000	Metal Film Resistor	470.0 1/4 F			01
R641	VF459100	Metal Film Resistor	2.2K 1/4 F			01
R642	VH005000	Metal Film Resistor	1.2K 1/4 F			01
R643	VH005000	Metal Film Resistor	1.2K 1/4 F			01
R644	VH001500	Metal Film Resistor	43.0 1/4 F			01
R647	VH005500	Metal Film Resistor	2.0K 1/4 F			01
R648	VF459100	Metal Film Resistor	2.2K 1/4 F			01
R649	VH004000	Metal Film Resistor	470.0 1/4 F			01
R657	VH007200	Metal Film Resistor	10.0K 1/4 F			01
-660	VH007200	Metal Film Resistor	10.0K 1/4 F			01
R661	VH007300	Metal Film Resistor	11.0K 1/4 F			01
R662	VH007200	Metal Film Resistor	10.0K 1/4 F			01
R663	VH007300	Metal Film Resistor	11.0K 1/4 F			01
R664	VH007200	Metal Film Resistor	10.0K 1/4 F			01
R665	VH007900	Metal Film Resistor	20.0K 1/4 F			01
-668	VH007900	Metal Film Resistor	20.0K 1/4 F			01
R669	VH007800	Metal Film Resistor	18.0K 1/4 F			01
-672	VH007800	Metal Film Resistor	18.0K 1/4 F			01

*: New Parts

RANK: Japan only

REF. NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R673	VH002100	Metal Film Resistor	75.0 1/4 F			01
-676	VH002100	Metal Film Resistor	75.0 1/4 F			01
	HF454470	Carbon Resistor	47.0 1/4 J			01
	HF458100	Carbon Resistor	100.0K 1/4 J			01
	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
	RD255750	Carbon Resistor (chip)	750.0 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
	RD258100	Carbon Resistor (chip)	100.0K 0.1 J			01
RY400	V5344100	Relay	DC RY-5W-OH-K 5V			04
RY401	V5344100	Relay	DC RY-5W-OH-K 5V			04
RY600	VU685600	Relay	DC NA- 5 W-K			06
RY601	VU685600	Relay	DC NA- 5 W-K			06
RY602	V5344100	Relay	DC RY-5W-OH-K 5V			04
RY603	V4494200	Relay	PS7113L-1A			05
TR400	VV556400	Transistor	2SC2412K Q,R,S			01
TR401	VV556400	Transistor	2SC2412K Q,R,S			01
TR402	V2993500	Transistor	2SD1979 S,T			01
-409	V2993500	Transistor	2SD1979 S,T			01
TR600	VV556400	Transistor	2SC2412K Q,R,S			01
-603	VV556400	Transistor	2SC2412K Q,R,S			01
TR604	V2993500	Transistor	2SD1979 S,T			01
-607	V2993500	Transistor	2SD1979 S,T			01
*	V41118S0	Circuit Board	CS MSCPU	(XW323B0)		
C14	UF037100	Electrolytic Cap. (chip)	10 16V			01
C37	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
-42	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C43	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
-48	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C61	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
-66	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C67	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
-72	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C119	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
-121	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C122	UF148220	Electrolytic Cap. (chip)	220 25V UUR1E2			02
C199	UF148220	Electrolytic Cap. (chip)	220 25V UUR1E2			02
C300	UF027220	Electrolytic Cap. (chip)	22 10V			01
	UB012470	Monolithic Ceramic Cap.	B 470P 50V K			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN1	VA030400	Base Post Connector	5483 4P TE			01
-9	VA030400	Base Post Connector	5483 4P TE			01
CN10	VA030400	Base Post Connector	5483 4P TE			01
-12	VA030400	Base Post Connector	5483 4P TE			01
CN13	VQ047500	Connector, FFC	52045 20P TE			01
CN14	VO022100	Connector, FFC	52045 40P TE			02
CN15	VO022100	Connector, FFC	52045 40P TE			02
CN16	VK025100	Wire Trap	52147 7P TE			01
-27	VK025100	Wire Trap	52147 7P TE			01
CN28	VO022100	Connector, FFC	52045 40P TE			02
CN29	VK024900	Wire Trap	52147 5P TE			01
CN30	VK025200	Wire Trap	52147 8P TE			01
CN31	VB390600	Connector Base Post	PH-10P TE			01
CN32	VB389900	Connector Base Post	PH- 3P TE			01
-43	VB389900	Connector Base Post	PH- 3P TE			01
CN44	LB933100	Base Post Connector	VH-10P SE			02
CN46	VK024900	Wire Trap	52147 5P TE			01
EM1	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
EM2	VQ761500	EMI Filter (chip)	NFM40R11C223T1			01
* EM3	V6246100	EMI Filter (chip)	NFM3212R13C223RT1			01
EM4	FZ006970	LC Filter	LS MT Y223NB			02
-8	FZ006970	LC Filter	LS MT Y223NB			02
EM9	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
* IC1	XV685A00	IC	MBM29F400BC-70PFTN	FRASH ROM 4M		11
IC2	XY715A00	IC	HD6437042AF28	CPU		10
IC3	XT163A00	IC	TC74HC238AF	LINE RECORDER		03
* IC4	XV013A00	IC	TB62705CF	LED DRIVER		04
* IC5	XV013A00	IC	TB62705CF	LED DRIVER		04
* IC6	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* IC7	IS405210	IC	SN74LV4052ANSR	MULTIPLEXER		02
* -10	IS405210	IC	SN74LV4052ANSR	MULTIPLEXER		02
* IC11	XV685A00	IC	MBM29F400BC-70PFTN	FLASH ROM 4M		11
IC12	XY715A00	IC	HD6437042AF28	CPU		10
* IC13	IS027300	IC	HD74LV273AFPEL	D-FF		02
* -17	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC18	IS013810	IC	SN74LV138ANSR	DECODER		01
IC19	XH610A00	IC	HD74LS06FPEL	INVERTER		02
IC20	XF557A00	IC	TA7291S	MOTOR DRIVER		03
-25	XF557A00	IC	TA7291S	MOTOR DRIVER		03
IC26	XH610A00	IC	HD74LS06FPEL	INVERTER		02
IC27	XF557A00	IC	TA7291S	MOTOR DRIVER		03
-32	XF557A00	IC	TA7291S	MOTOR DRIVER		03
* IC33	IS013810	IC	SN74LV138ANSR	DECODER		01
* IC34	XV973A00	IC	SGH603064F-62F	GATE ARRAY		07
* -36	XV973A00	IC	SGH603064F-62F	GATE ARRAY		07
* IC37	IS405210	IC	SN74LV4052ANSR	MULTIPLEXER		02
* IC38	IS405210	IC	SN74LV4052ANSR	MULTIPLEXER		02
IC39	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC40	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC41	XP226A00	IC	IC-PST591DMT	SYSTEM RESET		03
* IC42	IS000800	IC	HD74LV08AFPEL	AND		01
* LD1	V3990300	LED	TLSU1008 RE			01
* LD2	V3990300	LED	TLSU1008 RE			01
R75	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
-80	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R93	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
-98	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R111	HV754100	Flame Proof C. Resistor	10.0 1/4 J			01
-122	HV754100	Flame Proof C. Resistor	10.0 1/4 J			01
	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
	RD254820	Carbon Resistor (chip)	82.0 0.1 J			01
	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
	RD255330	Carbon Resistor (chip)	330.0 0.1 J			01
	RD255390	Carbon Resistor (chip)	390.0 0.1 J			01
	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
	RD256300	Carbon Resistor (chip)	3.0K 0.1 J			01
	RD256220	Carbon Resistor (chip)	2.2K 0.1 J			01
	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
RA1	RE047100	Resistor Array	10KX4			01
-37	RE047100	Resistor Array	10KX4			01
* RA38	RE046220	Resistor Array	2.2KX4			01
* -41	RE046220	Resistor Array	2.2KX4			01
TA1	VQ248500	Transistor Array	TD62381F			04
* X1	V3990700	Ceramic Resonator	CSTCC7.16MG0H6-TC			01
* X2	V3990700	Ceramic Resonator	CSTCC7.16MG0H6-TC			01
*	V43337S0	Circuit Board	CS MT1	(XW535C0)		
*	V4750900	Level Meter 2 Assembly			6	04
C5	UF037100	Electrolytic Cap. (chip)	10 16V			01
C7	UF037100	Electrolytic Cap. (chip)	10 16V			01
C17	UF028100	Electrolytic Cap. (chip)	100 10V			01
C18	UF028100	Electrolytic Cap. (chip)	100 10V			01
	FG252100	Monolithic Ceramic Cap.	100P 50V			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN1	VB858800	Connector Base Post	PH- 9P SE			01
CN2	VH904200	Connector Base Post	PH-14P SE			01
CN3	VB858800	Connector Base Post	PH- 9P SE			01
CN4	VC166500	Connector Base Post	PH-12P SE			01
CN5	VB858900	Connector Base Post	PH-10P SE			01
CN6	VB858700	Connector Base Post	PH- 8P SE			01
EM1	FZ006970	LC Filter	LS MT Y223NB			02
EM2	FZ006970	LC Filter	LS MT Y223NB			02
* IC1	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
* IC2	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
* IC3	XV013A00	IC	TB62705CF	LED DRIVER		04
* -6	XV013A00	IC	TB62705CF	LED DRIVER		04
IC8	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03

*: New Parts

RANK: Japan only

CS1D

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
IC10	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* LD1	V3990600	LED	TLGU1008 GR			01
* -11	V3990600	LED	TLGU1008 GR			01
* LD12	V3990400	LED	TLOU1008 OR			01
* -20	V3990400	LED	TLOU1008 OR			01
* LD21	V3990300	LED	TLSU1008 RE			01
* LD22	V3990600	LED	TLGU1008 GR			01
* -32	V3990600	LED	TLGU1008 GR			01
* LD33	V3990400	LED	TLOU1008 OR			01
* -41	V3990400	LED	TLOU1008 OR			01
* LD42	V3990300	LED	TLSU1008 RE			01
* LD43	V3990600	LED	TLGU1008 GR			01
* -53	V3990600	LED	TLGU1008 GR			01
* LD54	V3990400	LED	TLOU1008 OR			01
* -62	V3990400	LED	TLOU1008 OR			01
* LD63	V3990300	LED	TLSU1008 RE			01
* LD64	V3990600	LED	TLGU1008 GR			01
* -74	V3990600	LED	TLGU1008 GR			01
* LD75	V3990400	LED	TLOU1008 OR			01
* -83	V3990400	LED	TLOU1008 OR			01
* LD84	V3990300	LED	TLSU1008 RE			01
* LD85	V3990600	LED	TLGU1008 GR			01
* -95	V3990600	LED	TLGU1008 GR			01
* LD96	V3990400	LED	TLOU1008 OR			01
* -104	V3990400	LED	TLOU1008 OR			01
* LD105	V3990300	LED	TLSU1008 RE			01
* LD106	V3990600	LED	TLGU1008 GR			01
* -116	V3990600	LED	TLGU1008 GR			01
* LD117	V3990400	LED	TLOU1008 OR			01
* -125	V3990400	LED	TLOU1008 OR			01
* LD126	V3990300	LED	TLSU1008 RE			01
* LD127	V4078200	LED Display	LN423AS01			06
* -130	V4078200	LED Display	LN423AS01			06
* LD131	V4078000	LED Display	LN433AS01			06
* LD132	V3990600	LED	TLGU1008 GR			01
* -139	V3990600	LED	TLGU1008 GR			01
* LD147	V3990300	LED	TLSU1008 RE			01
* -154	V3990300	LED	TLSU1008 RE			01
* LD162	V2451300	LED Display	HCMS2903			12
* -165	V2451300	LED Display	HCMS2903			12
SP127	--	Spacer-2		(V466060)		
SP131	--	Spacer-1		(V466050)		
SP162	--	Spacer-3		(V466070)		
	RD254820	Carbon Resistor (chip)	82.0 0.1 J			01
	RD255390	Carbon Resistor (chip)	390.0 0.1 J			01
	RD256220	Carbon Resistor (chip)	2.2K 0.1 J			01
	V43338S0	Circuit Board	CS MT2	(XW536A0)		
* C14	V4750600	Level Meter 1 Assembly			24	04
C16	UF037100	Electrolytic Cap. (chip)	10 16V			01
C18	UF037100	Electrolytic Cap. (chip)	10 16V			01
C20	UF028100	Electrolytic Cap. (chip)	100 10V			01
C21	UF028100	Electrolytic Cap. (chip)	100 10V			01
	FG252100	Monolithic Ceramic Cap.	100P 50V			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN1	VB858800	Connector Base Post	PH- 9P SE			01
CN2	VB858700	Connector Base Post	PH- 8P SE			01
CN3	VB858800	Connector Base Post	PH- 9P SE			01
CN4	VB858900	Connector Base Post	PH-10P SE			01
CN5	VC166500	Connector Base Post	PH-12P SE			01
EM1	FZ006970	LC Filter	LS MT Y223NB			02
EM2	FZ006970	LC Filter	LS MT Y223NB			02
* IC1	XV013A00	IC	TB62705CF	LED DRIVER		04
* -10	XV013A00	IC	TB62705CF	LED DRIVER		04
IC12	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC14	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
* -16	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
* LD1	V3990600	LED	TLGU1008 GR			01
* -9	V3990600	LED	TLGU1008 GR			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
* LD10	V3990600	LED	TLGU1008 GR		01
* LD11	V3990600	LED	TLGU1008 GR		01
* LD12	V3990400	LED	TLOU1008 OR		01
* -20	V3990400	LED	TLOU1008 OR		01
* LD21	V3990300	LED	TLSU1008 RE		01
* LD22	V3990600	LED	TLGU1008 GR		01
* -32	V3990600	LED	TLGU1008 GR		01
* LD33	V3990400	LED	TLOU1008 OR		01
* -41	V3990400	LED	TLOU1008 OR		01
* LD42	V3990300	LED	TLSU1008 RE		01
* LD43	V3990600	LED	TLGU1008 GR		01
* -53	V3990600	LED	TLGU1008 GR		01
* LD54	V3990400	LED	TLOU1008 OR		01
* -62	V3990400	LED	TLOU1008 OR		01
* LD63	V3990300	LED	TLSU1008 RE		01
* LD64	V3990600	LED	TLGU1008 GR		01
* -74	V3990600	LED	TLGU1008 GR		01
* LD75	V3990400	LED	TLOU1008 OR		01
* -83	V3990400	LED	TLOU1008 OR		01
* LD84	V3990300	LED	TLSU1008 RE		01
* LD85	V3990600	LED	TLGU1008 GR		01
* -95	V3990600	LED	TLGU1008 GR		01
* LD96	V3990400	LED	TLOU1008 OR		01
* -104	V3990400	LED	TLOU1008 OR		01
* LD105	V3990300	LED	TLSU1008 RE		01
* LD106	V3990600	LED	TLGU1008 GR		01
* -116	V3990600	LED	TLGU1008 GR		01
* LD117	V3990400	LED	TLOU1008 OR		01
* -125	V3990400	LED	TLOU1008 OR		01
* LD126	V3990300	LED	TLSU1008 RE		01
* LD127	V3990600	LED	TLGU1008 GR		01
* -137	V3990600	LED	TLGU1008 GR		01
* LD138	V3990400	LED	TLOU1008 OR		01
* -146	V3990400	LED	TLOU1008 OR		01
* LD147	V3990300	LED	TLSU1008 RE		01
* LD148	V3990600	LED	TLGU1008 GR		01
* -158	V3990600	LED	TLGU1008 GR		01
* LD159	V3990400	LED	TLOU1008 OR		01
* -167	V3990400	LED	TLOU1008 OR		01
* LD168	V3990300	LED	TLSU1008 RE		01
* LD169	V3990600	LED	TLGU1008 GR		01
* -179	V3990600	LED	TLGU1008 GR		01
* LD180	V3990400	LED	TLOU1008 OR		01
* -188	V3990400	LED	TLOU1008 OR		01
* LD189	V3990300	LED	TLSU1008 RE		01
* LD190	V3990600	LED	TLGU1008 GR		01
* -200	V3990600	LED	TLGU1008 GR		01
* LD201	V3990400	LED	TLOU1008 OR		01
* -209	V3990400	LED	TLOU1008 OR		01
* LD210	V3990300	LED	TLSU1008 RE		01
* LD211	V3990600	LED	TLGU1008 GR		01
* -221	V3990600	LED	TLGU1008 GR		01
* LD222	V3990400	LED	TLOU1008 OR		01
* -230	V3990400	LED	TLOU1008 OR		01
* LD231	V3990300	LED	TLSU1008 RE		01
* LD232	V3990600	LED	TLGU1008 GR		01
* -242	V3990600	LED	TLGU1008 GR		01
* LD243	V3990400	LED	TLOU1008 OR		01
* -251	V3990400	LED	TLOU1008 OR		01
* LD252	V3990300	LED	TLSU1008 RE		01
* LD253	V3990600	LED	TLGU1008 GR		01
* -263	V3990600	LED	TLGU1008 GR		01
* LD264	V3990400	LED	TLOU1008 OR		01
* -272	V3990400	LED	TLOU1008 OR		01
* LD273	V3990300	LED	TLSU1008 RE		01
* LD274	V3990600	LED	TLGU1008 GR		01
* -284	V3990600	LED	TLGU1008 GR		01
* LD285	V3990400	LED	TLOU1008 OR		01
* -293	V3990400	LED	TLOU1008 OR		01
* LD294	V3990300	LED	TLSU1008 RE		01

*: New Parts

RANK: Japan only

CS1D

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LD295	V3990600	LED	TLGU1008 GR			01
* -305	V3990600	LED	TLGU1008 GR			01
* LD306	V3990400	LED	TLOU1008 OR			01
* -314	V3990400	LED	TLOU1008 OR			01
* LD315	V3990300	LED	TLSU1008 RE			01
* LD316	V3990600	LED	TLGU1008 GR			01
* -326	V3990600	LED	TLGU1008 GR			01
* LD327	V3990400	LED	TLOU1008 OR			01
* -335	V3990400	LED	TLOU1008 OR			01
* LD336	V3990300	LED	TLSU1008 RE			01
* LD337	V3990600	LED	TLGU1008 GR			01
* -347	V3990600	LED	TLGU1008 GR			01
* LD348	V3990400	LED	TLOU1008 OR			01
* -356	V3990400	LED	TLOU1008 OR			01
* LD357	V3990300	LED	TLSU1008 RE			01
* LD358	V3990600	LED	TLGU1008 GR			01
* -368	V3990600	LED	TLGU1008 GR			01
* LD369	V3990400	LED	TLOU1008 OR			01
* -377	V3990400	LED	TLOU1008 OR			01
* LD378	V3990300	LED	TLSU1008 RE			01
* LD379	V3990600	LED	TLGU1008 GR			01
* -389	V3990600	LED	TLGU1008 GR			01
* LD390	V3990400	LED	TLOU1008 OR			01
* -398	V3990400	LED	TLOU1008 OR			01
* LD399	V3990300	LED	TLSU1008 RE			01
* LD400	V3990600	LED	TLGU1008 GR			01
* -410	V3990600	LED	TLGU1008 GR			01
* LD411	V3990400	LED	TLOU1008 OR			01
* -419	V3990400	LED	TLOU1008 OR			01
* LD420	V3990300	LED	TLSU1008 RE			01
* LD421	V3990600	LED	TLGU1008 GR			01
* -431	V3990600	LED	TLGU1008 GR			01
* LD432	V3990400	LED	TLOU1008 OR			01
* -440	V3990400	LED	TLOU1008 OR			01
* LD441	V3990300	LED	TLSU1008 RE			01
* LD442	V3990600	LED	TLGU1008 GR			01
* -452	V3990600	LED	TLGU1008 GR			01
* LD453	V3990400	LED	TLOU1008 OR			01
* -461	V3990400	LED	TLOU1008 OR			01
* LD462	V3990300	LED	TLSU1008 RE			01
* LD463	V3990600	LED	TLGU1008 GR			01
* -473	V3990600	LED	TLGU1008 GR			01
* LD474	V3990400	LED	TLOU1008 OR			01
* -482	V3990400	LED	TLOU1008 OR			01
* LD483	V3990300	LED	TLSU1008 RE			01
* LD484	V3990600	LED	TLGU1008 GR			01
* -494	V3990600	LED	TLGU1008 GR			01
* LD495	V3990400	LED	TLOU1008 OR			01
* -503	V3990400	LED	TLOU1008 OR			01
* LD504	V3990300	LED	TLSU1008 RE			01
* LD505	V3990400	LED	TLOU1008 OR			01
* -552	V3990400	LED	TLOU1008 OR			01
* RA1	RE046220	Resistor Array	2.2KX4			01
* -6	RE046220	Resistor Array	2.2KX4			01
	RD254820	Carbon Resistor (chip)	82.0 0.1 J			01
	RD255390	Carbon Resistor (chip)	390.0 0.1 J			01
*	V50497S0	Circuit Board	CS MT3	(XW536A0)		
* C14	V4750600	Level Meter 1 Assembly			24	04
C16	UF037100	Electrolytic Cap. (chip)	10 16V			01
C18	UF037100	Electrolytic Cap. (chip)	10 16V			01
C20	UF028100	Electrolytic Cap. (chip)	100 10V			01
C21	UF028100	Electrolytic Cap. (chip)	100 10V			01
	FG252100	Monolithic Ceramic Cap.	100P 50V			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN1	VB858800	Connector Base Post	PH- 9P SE			01
CN2	VB858700	Connector Base Post	PH- 8P SE			01
CN5	VC166500	Connector Base Post	PH-12P SE			01
EM1	FZ006970	LC Filter	LS MT Y223NB			02

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
EM2	FZ006970	LC Filter	LS MT Y223NB			02
* IC1	XV013A00	IC	TB62705CF	LED DRIVER		04
* -10	XV013A00	IC	TB62705CF	LED DRIVER		04
IC12	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC14	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
* -16	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
* LD1	V3990600	LED	TLGU1008 GR			01
* -11	V3990600	LED	TLGU1008 GR			01
* LD12	V3990400	LED	TLOU1008 OR			01
* -20	V3990400	LED	TLOU1008 OR			01
* LD21	V3990300	LED	TLSU1008 RE			01
* LD22	V3990600	LED	TLGU1008 GR			01
* -32	V3990600	LED	TLGU1008 GR			01
* LD33	V3990400	LED	TLOU1008 OR			01
* -41	V3990400	LED	TLOU1008 OR			01
* LD42	V3990300	LED	TLSU1008 RE			01
* LD43	V3990600	LED	TLGU1008 GR			01
* -53	V3990600	LED	TLGU1008 GR			01
* LD54	V3990400	LED	TLOU1008 OR			01
* -62	V3990400	LED	TLOU1008 OR			01
* LD63	V3990300	LED	TLSU1008 RE			01
* LD64	V3990600	LED	TLGU1008 GR			01
* -74	V3990600	LED	TLGU1008 GR			01
* LD75	V3990400	LED	TLOU1008 OR			01
* -83	V3990400	LED	TLOU1008 OR			01
* LD84	V3990300	LED	TLSU1008 RE			01
* LD85	V3990600	LED	TLGU1008 GR			01
* -95	V3990600	LED	TLGU1008 GR			01
* LD96	V3990400	LED	TLOU1008 OR			01
* -104	V3990400	LED	TLOU1008 OR			01
* LD105	V3990300	LED	TLSU1008 RE			01
* LD106	V3990600	LED	TLGU1008 GR			01
* -116	V3990600	LED	TLGU1008 GR			01
* LD117	V3990400	LED	TLOU1008 OR			01
* -125	V3990400	LED	TLOU1008 OR			01
* LD126	V3990300	LED	TLSU1008 RE			01
* LD127	V3990600	LED	TLGU1008 GR			01
* -137	V3990600	LED	TLGU1008 GR			01
* LD138	V3990400	LED	TLOU1008 OR			01
* -146	V3990400	LED	TLOU1008 OR			01
* LD147	V3990300	LED	TLSU1008 RE			01
* LD148	V3990600	LED	TLGU1008 GR			01
* -158	V3990600	LED	TLGU1008 GR			01
* LD159	V3990400	LED	TLOU1008 OR			01
* -167	V3990400	LED	TLOU1008 OR			01
* LD168	V3990300	LED	TLSU1008 RE			01
* LD169	V3990600	LED	TLGU1008 GR			01
* -179	V3990600	LED	TLGU1008 GR			01
* LD180	V3990400	LED	TLOU1008 OR			01
* -188	V3990400	LED	TLOU1008 OR			01
* LD189	V3990300	LED	TLSU1008 RE			01
* LD190	V3990600	LED	TLGU1008 GR			01
* -200	V3990600	LED	TLGU1008 GR			01
* LD201	V3990400	LED	TLOU1008 OR			01
* -209	V3990400	LED	TLOU1008 OR			01
* LD210	V3990300	LED	TLSU1008 RE			01
* LD211	V3990600	LED	TLGU1008 GR			01
* -221	V3990600	LED	TLGU1008 GR			01
* LD222	V3990400	LED	TLOU1008 OR			01
* -230	V3990400	LED	TLOU1008 OR			01
* LD231	V3990300	LED	TLSU1008 RE			01
* LD232	V3990600	LED	TLGU1008 GR			01
* -242	V3990600	LED	TLGU1008 GR			01
* LD243	V3990400	LED	TLOU1008 OR			01
* -251	V3990400	LED	TLOU1008 OR			01
* LD252	V3990300	LED	TLSU1008 RE			01
* LD253	V3990600	LED	TLGU1008 GR			01
* -263	V3990600	LED	TLGU1008 GR			01
* LD264	V3990400	LED	TLOU1008 OR			01
* -272	V3990400	LED	TLOU1008 OR			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LD273	V3990300	LED	TLSU1008 RE			01
* LD274	V3990600	LED	TLGU1008 GR			01
* -284	V3990600	LED	TLGU1008 GR			01
* LD285	V3990400	LED	TLOU1008 OR			01
* -293	V3990400	LED	TLOU1008 OR			01
* LD294	V3990300	LED	TLSU1008 RE			01
* LD295	V3990600	LED	TLGU1008 GR			01
* -305	V3990600	LED	TLGU1008 GR			01
* LD306	V3990400	LED	TLOU1008 OR			01
* -314	V3990400	LED	TLOU1008 OR			01
* LD315	V3990300	LED	TLSU1008 RE			01
* LD316	V3990600	LED	TLGU1008 GR			01
* -326	V3990600	LED	TLGU1008 GR			01
* LD327	V3990400	LED	TLOU1008 OR			01
* -335	V3990400	LED	TLOU1008 OR			01
* LD336	V3990300	LED	TLSU1008 RE			01
* LD337	V3990600	LED	TLGU1008 GR			01
* -347	V3990600	LED	TLGU1008 GR			01
* LD348	V3990400	LED	TLOU1008 OR			01
* -356	V3990400	LED	TLOU1008 OR			01
* LD357	V3990300	LED	TLSU1008 RE			01
* LD358	V3990600	LED	TLGU1008 GR			01
* -368	V3990600	LED	TLGU1008 GR			01
* LD369	V3990400	LED	TLOU1008 OR			01
* -377	V3990400	LED	TLOU1008 OR			01
* LD378	V3990300	LED	TLSU1008 RE			01
* LD379	V3990600	LED	TLGU1008 GR			01
* -389	V3990600	LED	TLGU1008 GR			01
* LD390	V3990400	LED	TLOU1008 OR			01
* -398	V3990400	LED	TLOU1008 OR			01
* LD399	V3990300	LED	TLSU1008 RE			01
* LD400	V3990600	LED	TLGU1008 GR			01
* -410	V3990600	LED	TLGU1008 GR			01
* LD411	V3990400	LED	TLOU1008 OR			01
* -419	V3990400	LED	TLOU1008 OR			01
* LD420	V3990300	LED	TLSU1008 RE			01
* LD421	V3990600	LED	TLGU1008 GR			01
* -431	V3990600	LED	TLGU1008 GR			01
* LD432	V3990400	LED	TLOU1008 OR			01
* -440	V3990400	LED	TLOU1008 OR			01
* LD441	V3990300	LED	TLSU1008 RE			01
* LD442	V3990600	LED	TLGU1008 GR			01
* -452	V3990600	LED	TLGU1008 GR			01
* LD453	V3990400	LED	TLOU1008 OR			01
* -461	V3990400	LED	TLOU1008 OR			01
* LD462	V3990300	LED	TLSU1008 RE			01
* LD463	V3990600	LED	TLGU1008 GR			01
* -473	V3990600	LED	TLGU1008 GR			01
* LD474	V3990400	LED	TLOU1008 OR			01
* -482	V3990400	LED	TLOU1008 OR			01
* LD483	V3990300	LED	TLSU1008 RE			01
* LD484	V3990600	LED	TLGU1008 GR			01
* -494	V3990600	LED	TLGU1008 GR			01
* LD495	V3990400	LED	TLOU1008 OR			01
* -503	V3990400	LED	TLOU1008 OR			01
* LD504	V3990300	LED	TLSU1008 RE			01
* LD505	V3990400	LED	TLOU1008 OR			01
* -600	V3990400	LED	TLOU1008 OR			01
* RA1	RE046220	Resistor Array	2.2KX4			01
* -6	RE046220	Resistor Array	2.2KX4			01
	RD254820	Carbon Resistor (chip)	82.0 0.1 J			01
	RD255390	Carbon Resistor (chip)	390.0 0.1 J			01
* C12	V41132S0	Circuit Board	CS MTCPU	(XW353C0)		01
C98	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C99	VR327000	Mylar Capacitor (chip)	47 16V			01
C103	VR327000	Mylar Capacitor (chip)	0.047 16V J			01
C105	UF037470	Electrolytic Cap. (chip)	47 16V			01
C201	UF017220	Electrolytic Cap. (chip)	47 16V			01
			22 6.3V			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C202	UF017220	Electrolytic Cap. (chip)	22 6.3V			01
C235	VR327300	Mylar Capacitor (chip)	0.082 16V J			01
C241	VR327300	Mylar Capacitor (chip)	0.082 16V J			01
	UB051330	Monolithic Ceramic Cap.	SL 33P 50V J			01
	UB012470	Monolithic Ceramic Cap.	B 470P 50V K			01
	UB013100	Monolithic Ceramic Cap.	B 1000P 50V K			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
	UB445330	Monolithic Ceramic Cap.	F 0.33 16V Z			01
CN1	VB390600	Connector Base Post	PH-10P TE			01
CN3	VB389900	Connector Base Post	PH- 3P TE			01
CN4	VB389900	Connector Base Post	PH- 3P TE			01
CN5	VB390500	Connector Base Post	PH- 9P TE			03
CN6	VB390400	Connector Base Post	PH- 8P TE			01
CN7	VE352600	Connector Base Post	PH-14P TE			01
CN8	VF283300	Connector Base Post	PH-15P TE			01
CN9	VB390600	Connector Base Post	PH-10P TE			01
CN10	VO022100	Connector, FFC	52045 40P TE			02
CN11	--	Header, Flat Cable	5332 50P TE	(V414590)		
CN12	VO022100	Connector, FFC	52045 40P TE			02
CN13	--	Header, Flat Cable	5332 30P TE	(V414610)		
CN14	VO022100	Connector, FFC	52045 40P TE			02
CN15	VB389800	Connector Base Post	PH- 2P TE			01
CN16	VB389900	Connector Base Post	PH- 3P TE			01
CN201	VF283100	Connector Base Post	PH-13P TE			01
EM2	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
EM4	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
* EM5	V6246100	EMI Filter (chip)	NFM3212R13C223RT1			
EM6	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
EM201	FZ006970	LC Filter	LS MT Y223NB			02
IC1	XY715A00	IC	HD6437042AF28	CPU		10
* IC2	XV685A00	IC	MBM29F400BC-70PFTN	FLASH ROM 4M		11
* IC3	IS000800	IC	HD74LV08AFPEL	AND		01
IC4	XV729A00	IC	IDT71016S15Y-TR	SRAM 1M		09
* IC5	IS003200	IC	HD74LV32AFPEL	OR		01
IC6	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC7	XP226A00	IC	IC-PST591DMT	SYSTEM RESET		03
IC8	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC9	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC10	XT163A00	IC	TC74HC238AF	LINE DECODER		03
IC11	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC12	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC13	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
* IC14	XV989A00	IC	YSS904-F	DSP5		11
* IC15	XV989A00	IC	YSS904-F	DSP5		11
IC16	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-27	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC28	XW239A00	IC	EPC1	EPROM 1M		09
IC30	XG948E00	IC	YM3436DK	DIR2		11
IC31	XG948E00	IC	YM3436DK	DIR2		11
IC33	XG948E00	IC	YM3436DK	DIR2		11
IC34	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC35	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC36	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC37	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC38	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC41	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC42	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC43	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
IC44	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
* IC46	IS000800	IC	HD74LV08AFPEL	AND		01
* IC201	XS304A00	IC	LT1117CST-3.3	REGULATOR +3.3V		07
* IC202	XY094A00	IC	LT1118CST-2.5	REGULATOR +2.5V		08
* IC203	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC204	XY217A00	IC	EPF10K50EQC208	FPGA		25
* IC205	XW422A00	IC	M51953AFP	SYSTEM RESET		01
* IC206	IS000800	IC	HD74LV08AFPEL	AND		01
IC207	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
L1	RD254510	Carbon Resistor (chip)	51.0 0.1 J			01
L2	RD255150	Carbon Resistor (chip)	150.0 0.1 J			01
-6	RD255150	Carbon Resistor (chip)	150.0 0.1 J			01

*: New Parts

RANK: Japan only

REF. NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
L7	RD254510	Carbon Resistor (chip)	51.0 0.1 J			01
L8	RD255150	Carbon Resistor (chip)	150.0 0.1 J			01
-10	RD255150	Carbon Resistor (chip)	150.0 0.1 J			01
L11	RD254510	Carbon Resistor (chip)	51.0 0.1 J			01
* LD1	V3990300	LED	TLSU1008 RE			01
R25	VI196100	Carbon Resistor (chip)	3.3K 1/10 D			01
R27	VI196100	Carbon Resistor (chip)	3.3K 1/10 D			01
R208	VV320200	Carbon Resistor (chip)	2K 0.1 D			01
R213	VV315200	Carbon Resistor (chip)	1.5K 0.1 D			01
	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
	RD255330	Carbon Resistor (chip)	330.0 0.1 J			01
	RD255470	Carbon Resistor (chip)	470.0 0.1 J			01
	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
	VV315200	Carbon Resistor (chip)	1.5K 0.1 D			01
	VV320200	Carbon Resistor (chip)	2.0K 0.1 D			01
	RD256300	Carbon Resistor (chip)	3.0K 0.1 J			01
	RD256330	Carbon Resistor (chip)	3.3K 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
RA1	RE047100	Resistor Array	10KX4			01
-9	RE047100	Resistor Array	10KX4			01
RA10	RE047100	Resistor Array	10KX4			01
-16	RE047100	Resistor Array	10KX4			01
RA17	RE046330	Resistor Array	3.3KX4			01
RA18	RE046330	Resistor Array	3.3KX4			01
RA19	RE047100	Resistor Array	10KX4			01
-28	RE047100	Resistor Array	10KX4			01
RA29	RE048100	Resistor Array	100KX4			01
-44	RE048100	Resistor Array	100KX4			01
RA45	RE046100	Resistor Array	1KX4			01
RA46	RE048100	Resistor Array	100KX4			01
-49	RE048100	Resistor Array	100KX4			01
RA51	RE048100	Resistor Array	100KX4			01
* RA201	RE046220	Resistor Array	2.2KX4			01
* RA202	RE046220	Resistor Array	2.2KX4			01
RA203	RE047100	Resistor Array	10KX4			01
-206	RE047100	Resistor Array	10KX4			01
RA209	RE046100	Resistor Array	1KX4			01
RA212	RE047100	Resistor Array	10KX4			01
RA217	RE048100	Resistor Array	100KX4			01
-222	RE048100	Resistor Array	100KX4			01
RA223	RE047100	Resistor Array	10KX4			01
* SC28	VV047100	IC Socket	DICF-8CS-E			01
TA1	VQ248500	Transistor Array	TD62381F			04
* X1	V3990700	Ceramic Resonator	CSTCC7.16MG0H6-TC			01
X2	VZ156100	Quartz Crystal Unit	60MHz DSO751S			06
X3	VZ568200	Quartz Crystal Unit	22.5792MHz DSO751S			06
X4	VZ568300	Quartz Crystal Unit	24.576MHz DSO751S			06
* C101	V45142S0	Circuit Board	CS PCIF	(XW670C0)		02
C102	UF138470	Electrolytic Cap. (chip)	470 16V UUR1C4			01
C103	UF017220	Electrolytic Cap. (chip)	10 25V			01
C105	UF017220	Electrolytic Cap. (chip)	22 6.3V			01
C202	UF138470	Electrolytic Cap. (chip)	470 16V UUR1C4			02
C203	UF047100	Electrolytic Cap. (chip)	10 25V			01
C203	UF047100	Electrolytic Cap. (chip)	10 25V			01
C319	UF138470	Electrolytic Cap. (chip)	470 16V UUR1C4			02
C320	UF017220	Electrolytic Cap. (chip)	22 6.3V			01
	FG652120	Monolithic Ceramic Cap.	120P 50V			01
	FG212560	Monolithic Ceramic Cap.	560P 50V			01
	VE659000	Ceramic Capacitor	0.1 25V			01
	UB052100	Monolithic Ceramic Cap.	SL 100P 50V J			01
	UB052120	Monolithic Ceramic Cap.	SL 120P 50V J			01
	UB012470	Monolithic Ceramic Cap.	B 470P 50V K			01
	UB012220	Monolithic Ceramic Cap.	B 220P 50V K			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN101	LB932080	Base Post Connector	VH- 8P TE			01
* CN102	V4622700	Plug	53481 240P			07
CN201	--	Pin Header	HIF6A 80P TE	(V451010)		07

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
CN202	--	Pin Header	HIF6A 40P TE	(VV97360)		
* CN301	V6706500	Connector, D-Sub	KH 15P SE			
CN302	VF283300	Connector Base Post	PH-15P TE			01
CN303	VE352600	Connector Base Post	PH-14P TE			01
CN304	VB390800	Connector Base Post	PH-12P TE			01
CN305	VB390200	Connector Base Post	PH- 6P TE			01
CN306	VB390000	Connector Base Post	PH- 4P TE			01
CN401	VB390100	Connector Base Post	PH- 5P TE			01
CN501	VB390600	Connector Base Post	PH-10P TE			01
CN801	--	Header, Flat Cable	5332 20P TE	(V451070)		
CN802	--	Header, Flat Cable	5332 50P TE	(V414590)		
CN803	VY730000	Connector Socket	17LE 9P SE			04
D101	VT332900	Diode	1SS355 TE-17			01
D102	V2376600	Diode	RB500V-40			01
D301	VT332900	Diode	1SS355 TE-17			01
D302	VT332900	Diode	1SS355 TE-17			01
DA301	VD303900	Diode Array	1SS226 TE85R 0.			01
-303	VD303900	Diode Array	1SS226 TE85R 0.			01
DA801	VV556300	Diode Array	DAN217 0.3A X2			01
-804	VV556300	Diode Array	DAN217 0.3A X2			01
EM101	FZ006970	LC Filter	LS MT Y223NB			02
EM103	FZ006970	LC Filter	LS MT Y223NB			02
EM104	FZ005920	LC Filter	LS MT Y223NB			02
EM105	FZ005920	LC Filter	LS MT Y223NB			02
EM201	FZ006970	LC Filter	LS MT Y223NB			02
EM202	FZ006970	LC Filter	LS MT Y223NB			02
* EM301	VT360700	EMI Filter (chip)	NFM51R00P506			
* -303	VT360700	EMI Filter (chip)	NFM51R00P506			
* EM304	VT360600	EMI Filter (chip)	NFM51R00P206			02
* EM305	VT360600	EMI Filter (chip)	NFM51R00P206			02
EM314	FZ007050	LC Filter	MT-B271KB			01
-316	FZ007050	LC Filter	MT-B271KB			01
EM317	FZ005920	LC Filter	LS MT Y223NB			02
-319	FZ005920	LC Filter	LS MT Y223NB			02
EM801	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
-804	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
	FZ006920	LC Filter	MT-B271KB			01
* IC101	XW818A00	IC	LT1117CST	REGULATOR +15V 1.25V		07
* IC102	XY978A00	IC	PST593IMT	SYSTEM RESET		
* IC103	IS003200	IC	HD74LV32AFPEL	OR		01
* IC105	XW818A00	IC	LT1117CST	REGULATOR +15V 1.25A		07
* IC106	IS013910	IC	SN74LV139ANSR	DEMULTIPLEXER		01
* IC107	IS003200	IC	HD74LV32AFPEL	OR		01
* IC108	IS000800	IC	HD74LV08AFPEL	AND		01
* IC201	IS000800	IC	HD74LV08AFPEL	AND		01
IC205	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-211	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC213	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC301	IS024500	IC	HD74LV245AFPEL	TRANSCEIVER		02
* -303	IS024500	IC	HD74LV245AFPEL	TRANSCEIVER		02
IC304	XP985A00	IC	SN74LS06NSR	INVERTER		
* IC305	XW818A00	IC	LT1117CST	REGULATOR +15V 1.25V		07
IC401	XY715A00	IC	HD6437042AF28	CPU		10
IC402	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC404	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
* IC405	IS000800	IC	HD74LV08AFPEL	AND		01
* IC406	XV685A00	IC	MBM29F400BC-70PFTN	FLASH ROM 4M		11
* IC407	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC408	IS012500	IC	HD74LV125AFPEL	BUFFER		01
* IC501	XY726A00	IC	EPM7128AETC100-10	FPGA		11
* IC503	XY137A00	IC	CY7C433-25JC	FIFO		10
* IC504	XY137A00	IC	CY7C433-25JC	FIFO		10
* IC505	XT800A00	IC	TC74VHC244F	BUFFER		03
* IC506	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC507	IS000200	IC	HD74LV02AFPEL	NOR		01
* IC508	XT800A00	IC	TC74VHC244F	BUFFER		03
* IC509	XT800A00	IC	TC74VHC244F	BUFFER		03
* IC701	IS016410	IC	SN74LV164ANSR	SHIFT REGISTER		02
IC702	XU229A00	IC	TC74LVX4245FS	BUS TRANSCEIVER		04
IC703	XU229A00	IC	TC74LVX4245FS	BUS TRANSCEIVER		04

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* IC704	IS003200	IC	HD74LV32AFPEL	OR		01
* IC705	XY114A00	IC	CY7C027-20AC	SRAM 512K		22
IC801	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC802	XU073A00	IC	SN75C1168NSR	LINE TRANSCEIVER		05
* IC804	IS012500	IC	HD74LV125AFPEL	BUFFER		01
IC805	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC806	XP226A00	IC	IC-PST591DMT	SYSTEM RESET		03
* IC807	IS000800	IC	HD74LV08AFPEL	AND		01
IC808	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-812	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC901	XW790A00	IC	E0C37120	DATA BUFFER		08
* JK302	V2452000	Jack, Mini DIN	6P TCS7927			04
* -304	V2452000	Jack, Mini DIN	6P TCS7927			04
* LD401	V3990300	LED	TLSU1008 RE			01
R101	VI194600	Carbon Resistor (chip)	750.0 1/10 D			01
R102	VI193900	Carbon Resistor (chip)	390.0 1/10 D			01
* R106	VI193800	Chip Metal Film Resistor	360.0 1/10 D			01
R107	VI193300	Chip Metal Film Resistor	220.0 1/10 D			01
* R304	VT360600	EMI Filter (chip)	NFM51R00P206			02
* R305	VT360600	EMI Filter (chip)	NFM51R00P206			02
R308	VI193300	Chip Metal Film Resistor	220.0 1/10 D			01
* R309	VI193800	Chip Metal Film Resistor	360.0 1/10 D			01
	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
	RD254330	Carbon Resistor (chip)	33.0 0.1 J			01
	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
	RD256100	Carbon Resistor (chip)	1.0K 0.1 J			01
	RD256300	Carbon Resistor (chip)	3.0K 0.1 J			01
	RD256470	Carbon Resistor (chip)	4.7K 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
RA111	RE047100	Resistor Array	10KX4			01
-116	RE047100	Resistor Array	10KX4			01
RA201	RE047100	Resistor Array	10KX4			01
-209	RE047100	Resistor Array	10KX4			01
RA211	RE047100	Resistor Array	10KX4			01
RA401	RE047100	Resistor Array	10KX4			01
-420	RE047100	Resistor Array	10KX4			01
RA501	RE046100	Resistor Array	1KX4			01
RA502	RE047100	Resistor Array	10KX4			01
-504	RE047100	Resistor Array	10KX4			01
RA701	RE047100	Resistor Array	10KX4			01
-704	RE047100	Resistor Array	10KX4			01
RA801	RE047100	Resistor Array	10KX4			01
-803	RE047100	Resistor Array	10KX4			01
RA804	RE048100	Resistor Array	100KX4			01
-806	RE048100	Resistor Array	100KX4			01
RA807	RE047100	Resistor Array	10KX4			01
-808	RE047100	Resistor Array	10KX4			01
RA809	RE048100	Resistor Array	100KX4			01
-811	RE048100	Resistor Array	100KX4			01
RA812	RE047100	Resistor Array	10KX4			01
-817	RE047100	Resistor Array	10KX4			01
RA901	RE047100	Resistor Array	10KX4			01
-910	RE047100	Resistor Array	10KX4			01
RY301	V2902800	Relay	DC NAS-5 W-K-TN			04
* TH301	V4665200	Protector Switch	MINISMDC075 SMD			01
* TH302	V4665200	Protector Switch	MINISMDC075 SMD			01
* X101	V6566200	Quartz Crystal Unit	40MHz DSO751SV			01
* X401	V3990700	Ceramic Resonator	CSTCC7.16MG0H6-TC			01
	--	Circuit Board	CS PNC1	(V451350)(XW665B0)		
C101	UF118330	Electrolytic Cap. (chip)	330 6.3V UUR0J3			01
C176	UF037100	Electrolytic Cap. (chip)	10 16V			01
C177	UF037220	Electrolytic Cap. (chip)	22 16V			01
	FG652120	Monolithic Ceramic Cap.	120P			01
	UB012470	Monolithic Ceramic Cap.	B 470P 50V K			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN101	VZ581500	Header, Flat Cable	53320 96P SE			05
CN102	VB390100	Connector Base Post	PH- 5P TE			01
CN103	VB390600	Connector Base Post	PH-10P TE			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
CN104	VB390100	Connector Base Post	PH- 5P TE			01
EM101	FZ005920	LC Filter	LS MT Y223NB			02
IC101	XP226A00	IC	IC-PST591DMT	SYSTEM RESET		03
* IC102	IS000800	IC	HD74LV08AFPEL	AND		01
* IC103	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-107	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC108	IS012500	IC	HD74LV125AFPEL	BUFFER		01
IC109	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-111	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC112	XY114A00	IC	CY7C027-20AC	SRAM 512K		22
IC113	XY715A00	IC	HD6437042AF28	CPU		10
IC114	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC115	IS000800	IC	HD74LV08AFPEL	AND		01
* IC116	XV685A00	IC	MBM29F400BC-70PFTN	FRASH ROM 4M		11
IC117	XV729A00	IC	IDT71016S15Y-TR	SRAM 1M		09
* IC118	XY723A00	IC	EPM7128AETC100-10	FPGA		11
IC119	XV605A00	IC	CY7C024-15AC	SRAM 64K		19
IC120	XY715A00	IC	HD6437042AF28	CPU		10
IC121	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC122	IS000800	IC	HD74LV08AFPEL	AND		01
* IC123	XV685A00	IC	MBM29F400BC-70PFTN	FLASH ROM 4M		11
IC124	XV729A00	IC	IDT71016S15Y-TR	SRAM 1M		09
* IC125	XY724A00	IC	EPM7128AETC100-10	FPGA		11
* IC126	XY725A00	IC	EPM7128AETC100-10	FPGA		11
* IC127	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC128	XY137A00	IC	CY7C433-25JC	FIFO		10
* IC129	XY137A00	IC	CY7C433-25JC	FIFO		10
IC130	XV242A00	IC	TC74VHCT245AF	TRANSCEIVER		03
* IC131	XY772A00	IC	TC74HCT273AFEL	D-FF		01
* IC132	IS000200	IC	HD74LV02AFPEL	NOR		01
* IC133	IS000400	IC	HD74LV04AFPEL	INVERTER		01
IC134	XI999A00	IC	UPD71051GB-3B4	CEREAL I/O USART		06
* IC135	IS007400	IC	HD74LV74AFPEL	D-FF		01
* IC136	XZ062A00	IC	LT1117CST-3.3EP	REGULATOR +3.3V		01
* IC137	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC138	IS012500	IC	HD74LV125AFPEL	BUFFER		01
* IC139	IS012500	IC	HD74LV125AFPEL	BUFFER		01
K101	VI474400	Terminal Plate				01
K102	VI474400	Terminal Plate				01
* LD101	V3990300	LED	TLSU1008 RE			01
* LD102	V3990300	LED	TLSU1008 RE			01
RA101	RE048100	Resistor Array	100KX4			01
-110	RE048100	Resistor Array	100KX4			01
RA111	RE047100	Resistor Array	10KX4			01
-139	RE047100	Resistor Array	10KX4			01
RA140	RE046100	Resistor Array	1KX4			01
RA141	RE047100	Resistor Array	10KX4			01
-163	RE047100	Resistor Array	10KX4			01
* X101	V3990700	Ceramic Resonator	CSTCC7.16MG0H6-TC			01
* X102	V3990700	Ceramic Resonator	CSTCC7.16MG0H6-TC			01
* RD250000	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
* RD254200	RD254200	Carbon Resistor (chip)	20.0 0.1 J			01
* RD255220	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
* RD256220	RD256220	Carbon Resistor (chip)	2.2K 0.1 J			01
* RD256300	RD256300	Carbon Resistor (chip)	3.0K 0.1 J			01
* RD257100	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
* V41110S0	V41110S0	Circuit Board	CS PNI1	(XW315A0)		
C700	UF037100	Electrolytic Cap. (chip)	10 16V			01
-703	UF037100	Electrolytic Cap. (chip)	10 16V			01
C708	UF037100	Electrolytic Cap. (chip)	10 16V			01
-710	UF037100	Electrolytic Cap. (chip)	10 16V			01
C803	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C804	UF118220	Electrolytic Cap. (chip)	220 6.3V UUR0J2			01
C805	UF118220	Electrolytic Cap. (chip)	220 6.3V UUR0J2			01
UB245100	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN800	VO022300	Connector, FFC	52044 40P SE			02
-802	VO022300	Connector, FFC	52044 40P SE			02
CN803	LB932060	Base Post Connector	VH- 6P TE			01
D300	VT332900	Diode	1SS355 TE-17			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
-338	VT332900	Diode	1SS355 TE-17			01
* EC200	V3612100	Rotary Encoder	EC11E20104			05
* -235	V3612100	Rotary Encoder	EC11E20104			05
EM801	FZ006970	LC Filter	LS MT Y223NB			02
-803	FZ006970	LC Filter	LS MT Y223NB			02
* IC600	XV013A00	IC	TB62705CF	LED DRIVER		04
* -618	XV013A00	IC	TB62705CF	LED DRIVER		04
* IC700	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
* -706	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
IC800	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-802	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* KB308	V4624300	Switch Knob	LENS/M-GY			01
* -315	V4624300	Switch Knob	LENS/M-GY			01
* KB324	V4624400	Switch Knob	LENS/ GY			01
* KB325	V4627900	Switch Knob	S-GY /S-GY /DEC			03
* KB326	V4628000	Switch Knob	S-GY /S-GY /INC			03
* KB331	V4624300	Switch Knob	LENS/M-GY			01
* -334	V4624300	Switch Knob	LENS/M-GY			01
* LDA0	V3666500	LED	FA1105W OR			01
* -7	V3666500	LED	FA1105W OR			01
* LDA8	V3990200	LED	FY1105W YE			01
* -15	V3990200	LED	FY1105W YE			01
* LDA16	V3666500	LED	FA1105W OR			01
* -23	V3666500	LED	FA1105W OR			01
* LDA24	V3990100	LED	FR1105W RE			01
* LDA25	V3990300	LED	TLSU1008 RE			01
* LDA26	V3990400	LED	TLOU1008 OR			01
* -30	V3666500	LED	FA1105W OR			01
* LDA31	V3990200	LED	FY1105W YE			01
* -34	V3990200	LED	FY1105W YE			01
* LDA35	V4078200	LED Display	LN423AS01			06
* LDA36	V3666500	LED	FA1105W OR			01
* -39	V3666500	LED	FA1105W OR			01
* LDB0	V3990400	LED	TLOU1008 OR			01
* -30	V3990400	LED	TLOU1008 OR			01
* LDB31	V3990500	LED	TLJU1008 YE			01
* LDB32	V3990400	LED	TLOU1008 OR			01
* -58	V3990400	LED	TLOU1008 OR			01
* LDB59	V3990500	LED	TLJU1008 YE			01
* LDC0	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDC25	V3990300	LED	TLSU1008 RE			01
* LDC26	V3990300	LED	TLSU1008 RE			01
* LDC27	V3990500	LED	TLJU1008 YE			01
* LDC28	V3990600	LED	TLGU1008 GR			01
* LDC29	V3990600	LED	TLGU1008 GR			01
* LDC30	V3990500	LED	TLJU1008 YE			01
* LDC31	V3990300	LED	TLSU1008 RE			01
* LDC32	V3990400	LED	TLOU1008 OR			01
* -56	V3990400	LED	TLOU1008 OR			01
* LDC57	V3990300	LED	TLSU1008 RE			01
* LDC58	V3990300	LED	TLSU1008 RE			01
* LDC59	V3990500	LED	TLJU1008 YE			01
* LDC60	V3990600	LED	TLGU1008 GR			01
* LDC61	V3990600	LED	TLGU1008 GR			01
* LDC62	V3990500	LED	TLJU1008 YE			01
* LDC63	V3990300	LED	TLSU1008 RE			01
* LDD0	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDD25	V3990300	LED	TLSU1008 RE			01
* LDD26	V3990600	LED	TLGU1008 GR			01
* LDD27	V3990600	LED	TLGU1008 GR			01
* LDD28	V3990400	LED	TLOU1008 OR			01
* -30	V3990400	LED	TLOU1008 OR			01
* LDD31	V3990300	LED	TLSU1008 RE			01
* LDD32	V3990400	LED	TLOU1008 OR			01
* -56	V3990400	LED	TLOU1008 OR			01
* LDD57	V3990300	LED	TLSU1008 RE			01
* LDD58	V3990600	LED	TLGU1008 GR			01
* LDD59	V3990600	LED	TLGU1008 GR			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LDD60	V3990400	LED	TLOU1008 OR			01
* -62	V3990400	LED	TLOU1008 OR			01
* LDD63	V3990300	LED	TLSU1008 RE			01
* LDE0	V3990400	LED	TLOU1008 OR			01
* -25	V3990400	LED	TLOU1008 OR			01
* LDE26	V3990300	LED	TLSU1008 RE			01
* -29	V3990300	LED	TLSU1008 RE			01
* LDE30	V3990400	LED	TLOU1008 OR			01
* LDE31	V3990500	LED	TLYU1008 YE			01
* LDE32	V3990400	LED	TLOU1008 OR			01
* -58	V3990400	LED	TLOU1008 OR			01
* LDE59	V3990500	LED	TLYU1008 YE			01
* LDF0	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDF25	V3990300	LED	TLSU1008 RE			01
* LDF26	V3990300	LED	TLSU1008 RE			01
* LDF27	V3990500	LED	TLYU1008 YE			01
* LDF28	V3990600	LED	TLGU1008 GR			01
* LDF29	V3990600	LED	TLGU1008 GR			01
* LDF30	V3990500	LED	TLYU1008 YE			01
* LDF31	V3990300	LED	TLSU1008 RE			01
* LDF32	V3990400	LED	TLOU1008 OR			01
* -56	V3990400	LED	TLOU1008 OR			01
* LDF57	V3990300	LED	TLSU1008 RE			01
* LDF58	V3990300	LED	TLSU1008 RE			01
* LDF59	V3990500	LED	TLYU1008 YE			01
* LDF60	V3990600	LED	TLGU1008 GR			01
* LDF61	V3990600	LED	TLGU1008 GR			01
* LDF62	V3990500	LED	TLYU1008 YE			01
* LDF63	V3990300	LED	TLSU1008 RE			01
* LDG0	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDG25	V3990300	LED	TLSU1008 RE			01
* LDG26	V3990600	LED	TLGU1008 GR			01
* LDG27	V3990600	LED	TLGU1008 GR			01
* LDG28	V3990400	LED	TLOU1008 OR			01
* -30	V3990400	LED	TLOU1008 OR			01
* LDG31	V3990300	LED	TLSU1008 RE			01
* LDG32	V3990400	LED	TLOU1008 OR			01
* -56	V3990400	LED	TLOU1008 OR			01
* LDG57	V3990300	LED	TLSU1008 RE			01
* LDG58	V3990600	LED	TLGU1008 GR			01
* LDG59	V3990600	LED	TLGU1008 GR			01
* LDG60	V3990400	LED	TLOU1008 OR			01
* -62	V3990400	LED	TLOU1008 OR			01
* LDG63	V3990300	LED	TLSU1008 RE			01
* LDH0	V3990400	LED	TLOU1008 OR			01
* -30	V3990400	LED	TLOU1008 OR			01
* LDH31	V3990500	LED	TLYU1008 YE			01
* LDH32	V3990400	LED	TLOU1008 OR			01
* -58	V3990400	LED	TLOU1008 OR			01
* LDH59	V3990500	LED	TLYU1008 YE			01
* LDI0	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDI25	V3990300	LED	TLSU1008 RE			01
* LDI26	V3990300	LED	TLSU1008 RE			01
* LDI27	V3990500	LED	TLYU1008 YE			01
* LDI28	V3990600	LED	TLGU1008 GR			01
* LDI29	V3990600	LED	TLGU1008 GR			01
* LDI30	V3990500	LED	TLYU1008 YE			01
* LDI31	V3990300	LED	TLSU1008 RE			01
* LDI32	V3990400	LED	TLOU1008 OR			01
* -56	V3990400	LED	TLOU1008 OR			01
* LDI57	V3990300	LED	TLSU1008 RE			01
* LDI58	V3990300	LED	TLSU1008 RE			01
* LDI59	V3990500	LED	TLYU1008 YE			01
* LDI60	V3990600	LED	TLGU1008 GR			01
* LDI61	V3990600	LED	TLGU1008 GR			01
* LDI62	V3990500	LED	TLYU1008 YE			01
* LDI63	V3990300	LED	TLSU1008 RE			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
* LDJ0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDJ25	V3990300	LED	TLSU1008 RE		01
* LDJ26	V3990600	LED	TLGU1008 GR		01
* LDJ27	V3990600	LED	TLGU1008 GR		01
* LDJ28	V3990400	LED	TLOU1008 OR		01
* -30	V3990400	LED	TLOU1008 OR		01
* LDJ31	V3990300	LED	TLSU1008 RE		01
* LDJ32	V3990400	LED	TLOU1008 OR		01
* -56	V3990400	LED	TLOU1008 OR		01
* LDJ57	V3990300	LED	TLSU1008 RE		01
* LDJ58	V3990600	LED	TLGU1008 GR		01
* LDJ59	V3990600	LED	TLGU1008 GR		01
* LDJ60	V3990400	LED	TLOU1008 OR		01
* -62	V3990400	LED	TLOU1008 OR		01
* LDJ63	V3990300	LED	TLSU1008 RE		01
* LDK0	V3990400	LED	TLOU1008 OR		01
* -25	V3990400	LED	TLOU1008 OR		01
* LDK26	V3990300	LED	TLSU1008 RE		01
* -29	V3990300	LED	TLSU1008 RE		01
* LDK30	V3990400	LED	TLOU1008 OR		01
* LDK31	V3990500	LED	TLYU1008 YE		01
* LDK32	V3990400	LED	TLOU1008 OR		01
* -58	V3990400	LED	TLOU1008 OR		01
* LDK59	V3990500	LED	TLYU1008 YE		01
* LDL0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDL25	V3990300	LED	TLSU1008 RE		01
* LDL26	V3990300	LED	TLSU1008 RE		01
* LDL27	V3990500	LED	TLYU1008 YE		01
* LDL28	V3990600	LED	TLGU1008 GR		01
* LDL29	V3990600	LED	TLGU1008 GR		01
* LDL30	V3990500	LED	TLYU1008 YE		01
* LDL31	V3990300	LED	TLSU1008 RE		01
* LDL32	V3990400	LED	TLOU1008 OR		01
* -56	V3990400	LED	TLOU1008 OR		01
* LDL57	V3990300	LED	TLSU1008 RE		01
* LDL58	V3990300	LED	TLSU1008 RE		01
* LDL59	V3990500	LED	TLYU1008 YE		01
* LDL60	V3990600	LED	TLGU1008 GR		01
* LDL61	V3990600	LED	TLGU1008 GR		01
* LDL62	V3990500	LED	TLYU1008 YE		01
* LDL63	V3990300	LED	TLSU1008 RE		01
* LDM0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDM25	V3990300	LED	TLSU1008 RE		01
* LDM26	V3990600	LED	TLGU1008 GR		01
* LDM27	V3990600	LED	TLGU1008 GR		01
* LDM28	V3990400	LED	TLOU1008 OR		01
* -30	V3990400	LED	TLOU1008 OR		01
* LDM31	V3990300	LED	TLSU1008 RE		01
* LDM32	V3990400	LED	TLOU1008 OR		01
* -56	V3990400	LED	TLOU1008 OR		01
* LDM57	V3990300	LED	TLSU1008 RE		01
* LDM58	V3990600	LED	TLGU1008 GR		01
* LDM59	V3990600	LED	TLGU1008 GR		01
* LDM60	V3990400	LED	TLOU1008 OR		01
* -62	V3990400	LED	TLOU1008 OR		01
* LDM63	V3990300	LED	TLSU1008 RE		01
* LDN0	V3990400	LED	TLOU1008 OR		01
* -30	V3990400	LED	TLOU1008 OR		01
* LDN31	V3990500	LED	TLYU1008 YE		01
* LDN32	V3990400	LED	TLOU1008 OR		01
* -58	V3990400	LED	TLOU1008 OR		01
* LDN59	V3990500	LED	TLYU1008 YE		01
* LDP0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDP25	V3990300	LED	TLSU1008 RE		01
* LDP26	V3990300	LED	TLSU1008 RE		01
* LDP27	V3990500	LED	TLYU1008 YE		01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
* LDP28	V3990600	LED	TLGU1008 GR		01
* LDP29	V3990600	LED	TLGU1008 GR		01
* LDP30	V3990500	LED	TLYU1008 YE		01
* LDP31	V3990300	LED	TLSU1008 RE		01
* LDP32	V3990400	LED	TLOU1008 OR		01
* -56	V3990400	LED	TLOU1008 OR		01
* LDP57	V3990300	LED	TLSU1008 RE		01
* LDP58	V3990300	LED	TLSU1008 RE		01
* LDP59	V3990500	LED	TLYU1008 YE		01
* LDP60	V3990600	LED	TLGU1008 GR		01
* LDP61	V3990600	LED	TLGU1008 GR		01
* LDP62	V3990500	LED	TLYU1008 YE		01
* LDP63	V3990300	LED	TLSU1008 RE		01
* LDQ0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDQ25	V3990300	LED	TLSU1008 RE		01
* LDQ26	V3990600	LED	TLGU1008 GR		01
* LDQ27	V3990600	LED	TLGU1008 GR		01
* LDQ28	V3990400	LED	TLOU1008 OR		01
* -30	V3990400	LED	TLOU1008 OR		01
* LDQ31	V3990300	LED	TLSU1008 RE		01
* LDQ32	V3990400	LED	TLOU1008 OR		01
* -56	V3990400	LED	TLOU1008 OR		01
* LDQ57	V3990300	LED	TLSU1008 RE		01
* LDQ58	V3990600	LED	TLGU1008 GR		01
* LDQ59	V3990600	LED	TLGU1008 GR		01
* LDQ60	V3990400	LED	TLOU1008 OR		01
* -62	V3990400	LED	TLOU1008 OR		01
* LDQ63	V3990300	LED	TLSU1008 RE		01
* LDR0	V3990400	LED	TLOU1008 OR		01
* -25	V3990400	LED	TLOU1008 OR		01
* LDR26	V3990300	LED	TLSU1008 RE		01
* -29	V3990300	LED	TLSU1008 RE		01
* LDR30	V3990400	LED	TLOU1008 OR		01
* LDR31	V3990500	LED	TLYU1008 YE		01
* LDR32	V3990400	LED	TLOU1008 OR		01
* -58	V3990400	LED	TLOU1008 OR		01
* LDR59	V3990500	LED	TLYU1008 YE		01
* LDS0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDS25	V3990300	LED	TLSU1008 RE		01
* LDS26	V3990300	LED	TLSU1008 RE		01
* LDS27	V3990500	LED	TLYU1008 YE		01
* LDS28	V3990600	LED	TLGU1008 GR		01
* LDS29	V3990600	LED	TLGU1008 GR		01
* LDS30	V3990500	LED	TLYU1008 YE		01
* LDS31	V3990300	LED	TLSU1008 RE		01
* LDS32	V3990400	LED	TLOU1008 OR		01
* -56	V3990400	LED	TLOU1008 OR		01
* LDS57	V3990300	LED	TLSU1008 RE		01
* LDS58	V3990300	LED	TLSU1008 RE		01
* LDS59	V3990500	LED	TLYU1008 YE		01
* LDS60	V3990600	LED	TLGU1008 GR		01
* LDS61	V3990600	LED	TLGU1008 GR		01
* LDS62	V3990500	LED	TLYU1008 YE		01
* LDS63	V3990300	LED	TLSU1008 RE		01
* LDT0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDT25	V3990300	LED	TLSU1008 RE		01
* LDT26	V3990600	LED	TLGU1008 GR		01
* LDT27	V3990600	LED	TLGU1008 GR		01
* LDT28	V3990400	LED	TLOU1008 OR		01
* -30	V3990400	LED	TLOU1008 OR		01
* LDT31	V3990300	LED	TLSU1008 RE		01
* LDT32	V3990400	LED	TLOU1008 OR		01
* -56	V3990400	LED	TLOU1008 OR		01
* LDT57	V3990300	LED	TLSU1008 RE		01
* LDT58	V3990600	LED	TLGU1008 GR		01
* LDT59	V3990600	LED	TLGU1008 GR		01
* LDT60	V3990400	LED	TLOU1008 OR		01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* -62	V3990400	LED	TLOU1008 OR			01
* LDT63	V3990300	LED	TLSU1008 RE			01
* LD400	V2451300	LED Display	HCMS2903			12
* -412	V2451300	LED Display	HCMS2903			12
* SC400	V4938000	IC Socket	122-99-312			04
* -412	V4938000	IC Socket	122-99-312			04
SPA35	--	Spacer 7-seg.		(V441160)		
SP400	--	Spacer		(V441180)		
-412	--	Spacer		(V441180)		
* SW300	V3612000	Push Switch	SPPH131000			03
* -307	V3612000	Push Switch	SPPH131000			03
* SW308	V4857900	Tact Switch	SKHWAA			01
* -315	V4857900	Tact Switch	SKHWAA			01
* SW316	V3612000	Push Switch	SPPH131000			03
* -323	V3612000	Push Switch	SPPH131000			03
* SW324	V4857900	Tact Switch	SKHWAA			01
* -326	V4857900	Tact Switch	SKHWAA			01
* SW327	V3612000	Push Switch	SPPH131000			03
* -330	V3612000	Push Switch	SPPH131000			03
* SW331	V4857900	Tact Switch	SKHWAA			01
* -334	V4857900	Tact Switch	SKHWAA			01
* SW335	V3612000	Push Switch	SPPH131000			03
* -338	V3612000	Push Switch	SPPH131000			03
	RD254820	Carbon Resistor (chip)	82.0 0.1 J			01
	RD255390	Carbon Resistor (chip)	390.0 0.1 J			01
	RD256220	Carbon Resistor (chip)	2.2K 0.1 J			01
* CN100	V50478S0	Circuit Board	CS PNI2	(XW316A0)		
D100	VI879300	Cable Holder	51048 15P TE			01
D101	VT332900	Diode	1SS355 TE-17			01
* KB101	V3744500	SW Knob	LENS/S-GY			01
* LD100	V3666500	LED	FA1105W OR			01
* LD101	V3990300	LED	TLSU1008 RE			01
* LD102	V3990400	LED	TLOU1008 OR			01
* -114	V3990400	LED	TLOU1008 OR			01
* SW100	V3612000	Push Switch	SPPH131000			03
* SW101	V4857900	Tact Switch	SKHWAA			01
W100	--	Ribbon Cable	P=2.0 #26 7P 280L	(V503970)		
W101	--	Ribbon Cable	P=2.0 #26 8P 280L	(V504010)		
* C700	V41113S0	Circuit Board	CS PNIS1	(XW318A0)		
-703	UF037100	Electrolytic Cap. (chip)	10 16V			01
C708	UF037100	Electrolytic Cap. (chip)	10 16V			01
C800	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C801	UF118220	Electrolytic Cap. (chip)	220 6.3V UUR0J2			01
C802	UF118220	Electrolytic Cap. (chip)	220 6.3V UUR0J2			01
	FG652120	Monolithic Ceramic Cap.	120P 50V			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN800	VQ045200	Connector, FFC	52044 22P SE			01
CN801	VO022300	Connector, FFC	52044 40P SE			02
CN802	VO022300	Connector, FFC	52044 40P SE			02
CN803	VI879000	Cable Holder	51048 12P TE			01
CN804	VI879000	Cable Holder	51048 12P TE			01
D400	VT332900	Diode	1SS355 TE-17			01
-444	VT332900	Diode	1SS355 TE-17			01
* EC200	V3612100	Rotary Encoder	EC11E20104			05
* -226	V3612100	Rotary Encoder	EC11E20104			05
EM800	FZ006970	LC Filter	LS MT Y223NB			02
-802	FZ006970	LC Filter	LS MT Y223NB			02
* IC600	XV013A00	IC	TB62705CF	LED DRIVER		04
* -613	XV013A00	IC	TB62705CF	LED DRIVER		04
* IC700	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
* -704	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
IC800	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-802	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* KB406	V4624500	Switch Knob	LENS/ GR			01
* KB413	V4624300	Switch Knob	LENS/M-GY			01
* KB414	V4624500	Switch Knob	LENS/ GR			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* KB421	V3744500	Switch Knob	LENS/S-GY			01
* KB422	V4624300	Switch Knob	LENS/M-GY			01
* KB429	V3744500	Switch Knob	LENS/S-GY			01
* KB438	V3744500	Switch Knob	LENS/S-GY			01
* LD300	V4078000	LED Display	LNM433AS01			06
* -308	V4078000	LED Display	LNM433AS01			06
* LD310	V3990400	LED	TLOU1008 OR			01
* -314	V3990400	LED	TLOU1008 OR			01
* LD315	V3990300	LED	TLSU1008 RE			01
* LD316	V3990400	LED	TLOU1008 OR			01
* -320	V3990400	LED	TLOU1008 OR			01
* LD321	V3990600	LED	TLGU1008 GR			01
* LD322	V3990400	LED	TLOU1008 OR			01
* LD323	V3990500	LED	TLYU1008 YE			01
* LD324	V3990400	LED	TLOU1008 OR			01
* LD325	V3990300	LED	TLSU1008 RE			01
* LD500	V2451300	LED Display	HCMS2903			12
* -511	V2451300	LED Display	HCMS2903			12
* LD946	V3666500	LED	FA1105W OR			01
* -957	V3666500	LED	FA1105W OR			01
* LD958	V3990100	LED	FR1105W RE			01
* -969	V3990100	LED	FR1105W RE			01
* LD970	V3666500	LED	FA1105W OR			01
* LD971	V3990200	LED	FY1105W YE			01
* LD972	V3666500	LED	FA1105W OR			01
* LD973	V3990100	LED	FR1105W RE			01
* LD974	V3666500	LED	FA1105W OR			01
* LD975	V3990100	LED	FR1105W RE			01
* LD976	V3666500	LED	FA1105W OR			01
* LD977	V3666500	LED	FA1105W OR			01
* LD978	V3990200	LED	FY1105W YE			01
* LD979	V3990200	LED	FY1105W YE			01
* LD980	V3666500	LED	FA1105W OR			01
* -984	V3666500	LED	FA1105W OR			01
* LD985	V3990200	LED	FY1105W YE			01
* -988	V3990200	LED	FY1105W YE			01
* LD989	V3666500	LED	FA1105W OR			01
* LD990	V3666500	LED	FA1105W OR			01
* LDA00	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDA25	V3990300	LED	TLSU1008 RE			01
* LDA26	V3990300	LED	TLSU1008 RE			01
* LDB00	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDC00	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDD00	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDD25	V3990300	LED	TLSU1008 RE			01
* -28	V3990300	LED	TLSU1008 RE			01
* LDE00	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDE25	V3990300	LED	TLSU1008 RE			01
* LDE26	V3990300	LED	TLSU1008 RE			01
* LDF00	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDG00	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDH00	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDH25	V3990300	LED	TLSU1008 RE			01
* -28	V3990300	LED	TLSU1008 RE			01
* LDJ00	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDJ25	V3990300	LED	TLSU1008 RE			01
* LDJ26	V3990300	LED	TLSU1008 RE			01
* LDK00	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDL00	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
* LDM00	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDM25	V3990300	LED	TLSU1008 RE		01
* -28	V3990300	LED	TLSU1008 RE		01
* LDN00	V3990400	LED	TLOU1008 OR		01
* -30	V3990400	LED	TLOU1008 OR		01
* LDP00	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDP25	V3990600	LED	TLGU1008 GR		01
* LDP26	V3990600	LED	TLGU1008 GR		01
* LDP27	V3990400	LED	TLOU1008 OR		01
* -29	V3990400	LED	TLOU1008 OR		01
* LDP30	V3990300	LED	TLSU1008 RE		01
* LDQ00	V3990400	LED	TLOU1008 OR		01
* -30	V3990400	LED	TLOU1008 OR		01
* LDR00	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDR25	V3990600	LED	TLGU1008 GR		01
* LDR26	V3990600	LED	TLGU1008 GR		01
* LDR27	V3990400	LED	TLOU1008 OR		01
* -29	V3990400	LED	TLOU1008 OR		01
* LDR30	V3990300	LED	TLSU1008 RE		01
* LDS00	V3990400	LED	TLOU1008 OR		01
* -26	V3990400	LED	TLOU1008 OR		01
* LDT00	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* SC500	V4938000	IC Socket	122-99-312		04
* -511	V4938000	IC Socket	122-99-312		04
SP300	--	Spacer 7-seg.		(V441170)	
-308	--	Spacer 7-seg.		(V441170)	
SP500	--	Spacer		(V441180)	
-511	--	Spacer		(V441180)	
* SW400	V3612000	Push Switch	SPPH131000		03
* -405	V3612000	Push Switch	SPPH131000		03
* SW406	V4857900	Tact Switch	SKHWAA		01
* SW407	V3612000	Push Switch	SPPH131000		03
* -412	V3612000	Push Switch	SPPH131000		03
* SW413	V4857900	Tact Switch	SKHWAA		01
* SW414	V4857900	Tact Switch	SKHWAA		01
* SW415	V3612000	Push Switch	SPPH131000		03
* -420	V3612000	Push Switch	SPPH131000		03
* SW421	V4857900	Tact Switch	SKHWAA		01
* SW422	V4857900	Tact Switch	SKHWAA		01
* SW423	V3612000	Push Switch	SPPH131000		03
* -428	V3612000	Push Switch	SPPH131000		03
* SW429	V4857900	Tact Switch	SKHWAA		01
* SW430	V3612000	Push Switch	SPPH131000		03
* -437	V3612000	Push Switch	SPPH131000		03
* SW438	V4857900	Tact Switch	SKHWAA		01
* SW439	V3612000	Push Switch	SPPH131000		03
* -444	V3612000	Push Switch	SPPH131000		03
W803	--	Ribbon Cable	P=2.0 #26 12P 340L	(V505390)	
W804	--	Ribbon Cable	P=2.0 #26 12P 340L	(V505390)	
	RD254820	Carbon Resistor (chip)	82.0 0.1 J		01
	RD255390	Carbon Resistor (chip)	390.0 0.1 J		01
	RD256220	Carbon Resistor (chip)	2.2K 0.1 J		01
*	V50488S0	Circuit Board	CS PNIS2 (ISCOM)	(XW319A0)	
*	V50489S0	Circuit Board	CS PNIS3 (ISCOM)	(XW319A0)	
*	V50490S0	Circuit Board	CS PNIS4 (ISCOM)	(XW319A0)	
C700	UF037100	Electrolytic Cap. (chip)	10 16V		01
-703	UF037100	Electrolytic Cap. (chip)	10 16V		01
C708	UF037100	Electrolytic Cap. (chip)	10 16V		01
C802	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2		01
C803	UF118220	Electrolytic Cap. (chip)	220 6.3V UUR0J2		01
C804	UF118220	Electrolytic Cap. (chip)	220 6.3V UUR0J2		01
	FG652120	Monolithic Ceramic Cap.	120P 50V		
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z		01
CN801	VI879000	Cable Holder	51048 12P TE		01
CN802	VO022300	Connector, FFC	52044 40P SE		02

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
CN803	VQ045500	Connector, FFC	52044 26P SE			02
CN804	VO022300	Connector, FFC	52044 40P SE			02
CN805	VI879000	Cable Holder	51048 12P TE			01
CNX1	VI878100	Cable Holder	51048 3P TE			01
CNY1	VI878300	Cable Holder	51048 5P TE			01
D400	VT332900	Diode	1SS355 TE-17			01
-453	VT332900	Diode	1SS355 TE-17			01
DX1	VT332900	Diode	1SS355 TE-17			01
DY1	VT332900	Diode	1SS355 TE-17			01
DY2	VT332900	Diode	1SS355 TE-17			01
* EC200	V3612100	Rotary Encoder	EC11E20104			05
* -224	V3612100	Rotary Encoder	EC11E20104			05
EM800	FZ006970	LC Filter	LS MT Y223NB			02
-802	FZ006970	LC Filter	LS MT Y223NB			02
* IC600	XV013A00	IC	TB62705CF	LED DRIVER		04
* -613	XV013A00	IC	TB62705CF	LED DRIVER		04
* IC700	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
* -704	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
IC800	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-802	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* KB437	V3744500	Switch Knob	LENS/S-GY			01
* KB451	V4627900	Switch Knob	S-GY /S-GY /DEC			03
* KB452	V4628000	Switch Knob	S-GY /S-GY /INC			03
* KB453	V4629300	Switch Knob	M-GY /M-GY /SHIFT			03
* LD59	V4078100	LED Display	LNM426AA01G			05
* LD500	V2451300	LED Display	HCMS2903			12
* -512	V2451300	LED Display	HCMS2903			12
* LDA0	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDA25	V3990300	LED	TLSU1008 RE			01
* LDA26	V3990300	LED	TLSU1008 RE			01
* LDB0	V3666500	LED	FA1105W OR			01
* -11	V3666500	LED	FA1105W OR			01
* LDB12	V3990100	LED	FR1105W RE			01
* -20	V3990100	LED	FR1105W RE			01
* LDB21	V3666500	LED	FA1105W OR			01
* LDB22	V3666500	LED	FA1105W OR			01
* LDB23	V3990100	LED	FR1105W RE			01
* -26	V3990100	LED	FR1105W RE			01
* LDB27	V3666500	LED	FA1105W OR			01
* -34	V3666500	LED	FA1105W OR			01
* LDB35	V3990100	LED	FR1105W RE			01
* LDB36	V3666500	LED	FA1105W OR			01
* -43	V3666500	LED	FA1105W OR			01
* LDB44	V3990100	LED	FR1105W RE			01
* LDB45	V3666500	LED	FA1105W OR			01
* -50	V3666500	LED	FA1105W OR			01
* LDB51	V3990300	LED	TLSU1008 RE			01
* LDB52	V3990400	LED	TLOU1008 OR			01
* LDB56	V4078000	LED Display	LNM433AS01			06
* -59	V4078000	LED Display	LNM433AS01			06
* LDC0	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDC25	V3990300	LED	TLSU1008 RE			01
* LDC26	V3990300	LED	TLSU1008 RE			01
* LDD0	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDE0	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDF0	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDF25	V3990300	LED	TLSU1008 RE			01
* -28	V3990300	LED	TLSU1008 RE			01
* LDG0	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDG25	V3990300	LED	TLSU1008 RE			01
* LDG26	V3990300	LED	TLSU1008 RE			01
* LDH0	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDIO	V3990400	LED	TLOU1008 OR			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
* -24	V3990400	LED	TLOU1008 OR		01
* LDJ0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDJ25	V3990300	LED	TLSU1008 RE		01
* -28	V3990300	LED	TLSU1008 RE		01
* LDK0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDK25	V3990300	LED	TLSU1008 RE		01
* LDK26	V3990300	LED	TLSU1008 RE		01
* LDLO	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDM0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDN0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDN25	V3990300	LED	TLSU1008 RE		01
* -28	V3990300	LED	TLSU1008 RE		01
* LDO0	V3990400	LED	TLOU1008 OR		01
* -26	V3990400	LED	TLOU1008 OR		01
* LDP0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDQ0	V3990400	LED	TLOU1008 OR		01
* -26	V3990400	LED	TLOU1008 OR		01
* LDR0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDS0	V3990400	LED	TLOU1008 OR		01
* -26	V3990400	LED	TLOU1008 OR		01
* LDT0	V3990400	LED	TLOU1008 OR		01
* -26	V3990400	LED	TLOU1008 OR		01
* LDU0	V3990400	LED	TLOU1008 OR		01
* -29	V3990400	LED	TLOU1008 OR		01
* LDU30	V3990300	LED	TLSU1008 RE		01
* LDV0	V3990400	LED	TLOU1008 OR		01
* -V24	V3990400	LED	TLOU1008 OR		01
* LDV25	V3990300	LED	TLSU1008 RE		01
* LDV26	V3990600	LED	TLGU1008 GR		01
* -30	V3990600	LED	TLGU1008 GR		01
* LDV31	V3990400	LED	TLOU1008 OR		01
* LDX1	V3990100	LED	FR1105W RE		01
* LDY1	V3666500	LED	FA1105W OR		01
* LDY2	V3990100	LED	FR1105W RE		01
* SC500	V4938000	IC Socket	122-99-312		04
* -512	V4938000	IC Socket	122-99-312		04
SP59	--	Spacer 7-seg.		(V441150)	
SP500	--	Spacer		(V441180)	
-512	--	Spacer		(V441180)	
SPB56	--	Spacer 7-seg.		(V441170)	
-59	--	Spacer 7-seg.		(V441170)	
* SW400	V3612000	Push Switch	SPPH131000		03
* -436	V3612000	Push Switch	SPPH131000		03
* SW437	V4857900	Tact Switch	SKHWAA		01
* SW438	V3612000	Push Switch	SPPH131000		03
* -450	V3612000	Push Switch	SPPH131000		03
* SW451	V4857900	Tact Switch	SKHWAA		01
* -453	V4857900	Tact Switch	SKHWAA		01
* SWX1	V3612000	Push Switch	SPPH131000		03
* SWY1	V3612000	Push Switch	SPPH131000		03
* SWY2	V3612000	Push Switch	SPPH131000		03
TR600	VV556400	Transistor	2SC2412K Q,R,S		01
WX1	--	Ribbon Cable	P=2.0 #26 3P 230L	(V503920)	
WY1	--	Ribbon Cable	P=2.0 #26 5P 230L	(V503950)	
W801	--	Ribbon Cable	P=2.0 #26 12P 140L	(V505380)	
W805	--	Ribbon Cable	P=2.0 #26 12P 140L	(V505380)	
	RD255390	Carbon Resistor (chip)	390.0 0.1 J		01
	RD255680	Carbon Resistor (chip)	680.0 0.1 J		01
	RD257220	Carbon Resistor (chip)	22.0K 0.1 J		01
	RD254820	Carbon Resistor (chip)	82.0 0.1 J		01
	RD256220	Carbon Resistor (chip)	2.2K 0.1 J		01
* V41116S0		Circuit Board	CS PNM1	(XW321A0)	

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C900	UF037100	Electrolytic Cap. (chip)	10 16V			01
-904	UF037100	Electrolytic Cap. (chip)	10 16V			01
C910	UF037100	Electrolytic Cap. (chip)	10 16V			01
-912	UF037100	Electrolytic Cap. (chip)	10 16V			01
C955	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C956	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C957	UF118220	Electrolytic Cap. (chip)	220 6.3V UUR0J2			01
-959	UF118220	Electrolytic Cap. (chip)	220 6.3V UUR0J2			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
D300	VT332900	Diode	1SS355 TE-17			01
-383	VT332900	Diode	1SS355 TE-17			01
D400	VT332900	Diode	1SS355 TE-17			01
-495	VT332900	Diode	1SS355 TE-17			01
CN950	VO022300	Connector, FFC	52044 40P SE			02
CN953	VO022300	Connector, FFC	52044 40P SE			02
CN954	VO022300	Connector, FFC	52044 40P SE			02
CN955	VQ045000	Connector, FFC	52044 20P SE			01
CN956	LB932040	Base Post Connector	VH- 4P TE			01
CN957	LB932060	Base Post Connector	VH- 6P TE			01
* EC200	V3612100	Rotary Encoder	EC11E20104			05
* -235	V3612100	Rotary Encoder	EC11E20104			05
EM950	FZ006970	LC Filter	LS MT Y223NB			02
-954	FZ006970	LC Filter	LS MT Y223NB			02
* IC800	XV013A00	IC	TB62705CF	LED DRIVER		04
* -820	XV013A00	IC	TB62705CF	LED DRIVER		04
* IC900	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
* -907	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
IC950	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-952	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC954	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* KB312	V3744500	Switch Knob	LENS/S-GY			01
* -323	V3744500	Switch Knob	LENS/S-GY			01
* KB324	V4624300	Switch Knob	LENS/M-GY			01
* -335	V4624300	Switch Knob	LENS/M-GY			01
* KB448	V3744500	Switch Knob	LENS/S-GY			01
* -471	V3744500	Switch Knob	LENS/S-GY			01
* KB472	V4624300	Switch Knob	LENS/M-GY			01
* -495	V4624300	Switch Knob	LENS/M-GY			01
* LD500	V2451300	LED Display	HCMS2903			12
* -511	V2451300	LED Display	HCMS2903			12
* LD600	V2451300	LED Display	HCMS2903			12
* -623	V2451300	LED Display	HCMS2903			12
* LD700	V2451300	LED Display	HCMS2903			12
* -723	V2451300	LED Display	HCMS2903			12
* LDA0	V3666500	LED	FA1105W OR			01
* -23	V3666500	LED	FA1105W OR			01
* LDA24	V3990200	LED	FY1105W YE			01
* -35	V3990200	LED	FY1105W YE			01
* LDA36	V3666500	LED	FA1105W OR			01
* -59	V3666500	LED	FA1105W OR			01
* LDA60	V3990100	LED	FR1105W RE			01
* -83	V3990100	LED	FR1105W RE			01
* LDB0	V3990400	LED	TLOU1008 OR			01
* -23	V3990400	LED	TLOU1008 OR			01
* LDB24	V3666500	LED	FA1105W OR			01
* -71	V3666500	LED	FA1105W OR			01
* LDB72	V3990200	LED	FY1105W YE			01
* -95	V3990200	LED	FY1105W YE			01
* LDC0	V3990400	LED	TLOU1008 OR			01
* -59	V3990400	LED	TLOU1008 OR			01
* LDC60	V3990300	LED	TLSU1008 RE			01
* LDC61	V3990300	LED	TLSU1008 RE			01
* LDD0	V3990400	LED	TLOU1008 OR			01
* -24	V3990400	LED	TLOU1008 OR			01
* LDD25	V3990300	LED	TLSU1008 RE			01
* -28	V3990300	LED	TLSU1008 RE			01
* LDD29	V3990400	LED	TLOU1008 OR			01
* -59	V3990400	LED	TLOU1008 OR			01
* LDE0	V3990400	LED	TLOU1008 OR			01
* -59	V3990400	LED	TLOU1008 OR			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
* LDE60	V3990300	LED	TLSU1008 RE		01
* LDE61	V3990300	LED	TLSU1008 RE		01
* LDF0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDF25	V3990300	LED	TLSU1008 RE		01
* -28	V3990300	LED	TLSU1008 RE		01
* LDF29	V3990400	LED	TLOU1008 OR		01
* -59	V3990400	LED	TLOU1008 OR		01
* LDG0	V3990400	LED	TLOU1008 OR		01
* -59	V3990400	LED	TLOU1008 OR		01
* LDG60	V3990300	LED	TLSU1008 RE		01
* LDG61	V3990300	LED	TLSU1008 RE		01
* LDH0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDH25	V3990300	LED	TLSU1008 RE		01
* -28	V3990300	LED	TLSU1008 RE		01
* LDH29	V3990400	LED	TLOU1008 OR		01
* -59	V3990400	LED	TLOU1008 OR		01
* LDI0	V3990400	LED	TLOU1008 OR		01
* -28	V3990400	LED	TLOU1008 OR		01
* LDI29	V3990300	LED	TLSU1008 RE		01
* LDI30	V3990300	LED	TLSU1008 RE		01
* LDI31	V3990400	LED	TLOU1008 OR		01
* -61	V3990400	LED	TLOU1008 OR		01
* LDJ0	V3990400	LED	TLOU1008 OR		01
* -53	V3990400	LED	TLOU1008 OR		01
* LDJ54	V3990300	LED	TLSU1008 RE		01
* -57	V3990300	LED	TLSU1008 RE		01
* LDJ58	V3990400	LED	TLOU1008 OR		01
* LDJ59	V3990400	LED	TLOU1008 OR		01
* LDK0	V3990400	LED	TLOU1008 OR		01
* -28	V3990400	LED	TLOU1008 OR		01
* LDK29	V3990300	LED	TLSU1008 RE		01
* LDK30	V3990300	LED	TLSU1008 RE		01
* LDK31	V3990400	LED	TLOU1008 OR		01
* -61	V3990400	LED	TLOU1008 OR		01
* LDL0	V3990400	LED	TLOU1008 OR		01
* -53	V3990400	LED	TLOU1008 OR		01
* LDL54	V3990300	LED	TLSU1008 RE		01
* -57	V3990300	LED	TLSU1008 RE		01
* LDL58	V3990400	LED	TLOU1008 OR		01
* LDL59	V3990400	LED	TLOU1008 OR		01
* LDM0	V3990400	LED	TLOU1008 OR		01
* -28	V3990400	LED	TLOU1008 OR		01
* LDM29	V3990300	LED	TLSU1008 RE		01
* LDM30	V3990300	LED	TLSU1008 RE		01
* LDM31	V3990400	LED	TLOU1008 OR		01
* -61	V3990400	LED	TLOU1008 OR		01
* LDNO	V3990400	LED	TLOU1008 OR		01
* -53	V3990400	LED	TLOU1008 OR		01
* LDN54	V3990300	LED	TLSU1008 RE		01
* -57	V3990300	LED	TLSU1008 RE		01
* LDN58	V3990400	LED	TLOU1008 OR		01
* LDN59	V3990400	LED	TLOU1008 OR		01
* LDO0	V3990400	LED	TLOU1008 OR		01
* -28	V3990400	LED	TLOU1008 OR		01
* LDO29	V3990300	LED	TLSU1008 RE		01
* LDO30	V3990300	LED	TLSU1008 RE		01
* LDO31	V3990400	LED	TLOU1008 OR		01
* -61	V3990400	LED	TLOU1008 OR		01
* LDP0	V3990400	LED	TLOU1008 OR		01
* -53	V3990400	LED	TLOU1008 OR		01
* LDP54	V3990300	LED	TLSU1008 RE		01
* -57	V3990300	LED	TLSU1008 RE		01
* LDP58	V3990400	LED	TLOU1008 OR		01
* LDP59	V3990400	LED	TLOU1008 OR		01
* LDQ0	V3990400	LED	TLOU1008 OR		01
* -28	V3990400	LED	TLOU1008 OR		01
* LDQ29	V3990300	LED	TLSU1008 RE		01
* LDQ30	V3990300	LED	TLSU1008 RE		01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LDQ31	V3990400	LED	TLOU1008 OR			01
* -61	V3990400	LED	TLOU1008 OR			01
* LDR0	V3990400	LED	TLOU1008 OR			01
* -53	V3990400	LED	TLOU1008 OR			01
* LDR54	V3990300	LED	TLSU1008 RE			01
* -57	V3990300	LED	TLSU1008 RE			01
* LDR58	V3990400	LED	TLOU1008 OR			01
* LDR59	V3990400	LED	TLOU1008 OR			01
* LDS0	V3990400	LED	TLOU1008 OR			01
* -28	V3990400	LED	TLOU1008 OR			01
* LDS29	V3990300	LED	TLSU1008 RE			01
* LDS30	V3990300	LED	TLSU1008 RE			01
* LDS31	V3990400	LED	TLOU1008 OR			01
* -61	V3990400	LED	TLOU1008 OR			01
* LDT0	V3990400	LED	TLOU1008 OR			01
* -53	V3990400	LED	TLOU1008 OR			01
* LDT54	V3990300	LED	TLSU1008 RE			01
* -57	V3990300	LED	TLSU1008 RE			01
* LDT58	V3990400	LED	TLOU1008 OR			01
* LDT59	V3990400	LED	TLOU1008 OR			01
* RA900	RE046220	Resistor Array	2.2KX4			01
* -915	RE046220	Resistor Array	2.2KX4			01
* SC500	V4938000	IC Socket	122-99-312			04
* -511	V4938000	IC Socket	122-99-312			04
* SC600	V4938000	IC Socket	122-99-312			04
* -623	V4938000	IC Socket	122-99-312			04
* SC700	V4938000	IC Socket	122-99-312			04
* -723	V4938000	IC Socket	122-99-312			04
SP500	--	Spacer		(V441180)		
-511	--	Spacer		(V441180)		
SP600	--	Spacer		(V441180)		
-623	--	Spacer		(V441180)		
SP700	--	Spacer		(V441180)		
-723	--	Spacer		(V441180)		
* SW300	V3612000	Push Switch	SPPH131000			03
* -311	V3612000	Push Switch	SPPH131000			03
* SW312	V4857900	Tact Switch	SKHWAA			01
* -335	V4857900	Tact Switch	SKHWAA			01
* SW336	V3612000	Push Switch	SPPH131000			03
* -383	V3612000	Push Switch	SPPH131000			03
* SW400	V3612000	Push Switch	SPPH131000			03
* -447	V3612000	Push Switch	SPPH131000			03
* SW448	V4857900	Tact Switch	SKHWAA			01
* -495	V4857900	Tact Switch	SKHWAA			01
	RD254820	Carbon Resistor (chip)	82.0 0.1 J			01
	RD255390	Carbon Resistor (chip)	390.0 0.1 J			01
* CN100	V50491S0	Circuit Board	CS PNM2	(XW322A0)		
D100	VI878500	Cable Holder	51048 7P TE			01
-102	VT332900	Diode	1SS355 TE-17			01
* KB102	V3744500	Switch Knob	LENS/S-GY			01
* LD100	V3990100	LED	FR1105W RE			01
* LD101	V3666500	LED	FA1105W OR			01
* LD102	V3666500	LED	FA1105W OR			01
* LD103	V3990600	LED	TLGU1008 GR			01
* LD104	V3990400	LED	TLOU1008 OR			01
* SW100	V3612000	Push Switch	SPPH131000			03
* SW101	V3612000	Push Switch	SPPH131000			03
* SW102	V4857900	Tact Switch	SKHWAA			01
W100	--	Ribbon Cable	P=2.0 #26 7P 280L	(V503970)		
* V47314S0		Circuit Board	CS PNM3 (CMCOM)	(XW635A0)		
* V47316S0		Circuit Board	CS PNM4 (CMCOM)	(XW635A0)		
* V44526S0		Circuit Board	CS PNOS1C (CMCOM)	(XW635A0)		
* V47318S0		Circuit Board	CS PNOS3 (CMCOM)	(XW635A0)		
* V47321S0		Circuit Board	CS PNOS5 (CMCOM)	(XW635A0)		
* V44594S0		Circuit Board	CS PNOS6 (CMCOM)	(XW635A0)		
C300	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C301	UF118220	Electrolytic Cap. (chip)	220 6.3V UUR0J2			01

*: New Parts

RANK: Japan only

REF. NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C302	UF037100	Electrolytic Cap. (chip)	10 16V			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN100	VI878300	Cable Holder	51048 5P TE			01
CN300	VI878700	Cable Holder	51048 9P TE			01
CN301	VQ045900	Connector, FFC	52044 30P SE			02
CN400	VI878600	Cable Holder	51048 8P TE			01
CN501	VI878300	Cable Holder	51048 5P TE			01
CN601	VI878800	Cable Holder	51048 10P TE			01
CN602	VI878600	Cable Holder	51048 8P TE			01
CN701	--	Cable Holder	51020 11P SE	(V443060)		
D100	VT332900	Diode	1SS355 TE-17			01
D200	VT332900	Diode	1SS355 TE-17			01
-237	VT332900	Diode	1SS355 TE-17			01
D400	VT332900	Diode	1SS355 TE-17			01
-405	VT332900	Diode	1SS355 TE-17			01
D501	VT332900	Diode	1SS355 TE-17			01
D502	VT332900	Diode	1SS355 TE-17			01
D601	VT332900	Diode	1SS355 TE-17			01
-612	VT332900	Diode	1SS355 TE-17			01
D701	VT332900	Diode	1SS355 TE-17			01
-708	VT332900	Diode	1SS355 TE-17			01
* EC200	V3612100	Rotary Encoder	EC11E20104			05
EM300	FZ006970	LC Filter	LS MT Y223NB			02
EM301	FZ006970	LC Filter	LS MT Y223NB			02
* IC300	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
IC301	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC302	XV013A00	IC	TB62705CF	LED DRIVER		04
* IC303	XV013A00	IC	TB62705CF	LED DRIVER		04
* KB100	V3744500	Switch Knob	LENS/S-GY			01
* KB200	V4628100	Switch Knob	S-GY /S-GY /CLEAR			03
* KB201	V4627900	Switch Knob	S-GY /S-GY /DEC			03
* KB202	V4628000	Switch Knob	S-GY /S-GY /INC			03
* KB203	V4628700	Switch Knob	M-GY /M-GY /4			03
* KB204	V4628600	Switch Knob	M-GY /M-GY /3			03
* KB205	V4628500	Switch Knob	M-GY /M-GY /2			03
* KB206	V4628400	Switch Knob	M-GY /M-GY /1			03
* KB207	V4628200	Switch Knob	M-GY /M-GY /0			03
* KB208	V4629200	Switch Knob	M-GY /M-GY /9			03
* KB209	V4629100	Switch Knob	M-GY /M-GY /8			03
* KB210	V4629000	Switch Knob	M-GY /M-GY /7			03
* KB211	V4628900	Switch Knob	M-GY /M-GY /6			03
* KB212	V4628800	Switch Knob	M-GY /M-GY /5			03
* LD100	V3990400	LED	TLOU1008 OR			01
* LD101	V3666500	LED	FA1105W OR			01
* LD102	V3990400	LED	TLOU1008 OR			01
* LD103	V3990300	LED	TLSU1008 RE			01
* LD200	V4078000	LED Display	LNM433AS01			06
* LD201	V4078000	LED Display	LNM433AS01			06
* LD202	V3666500	LED	FA1105W OR			01
* LD203	V3990100	LED	FR1105W RE			01
* LD204	V3666500	LED	FA1105W OR			01
* LD205	V3990200	LED	FY1105W YE			01
* LD206	V3666500	LED	FA1105W OR			01
* -208	V3666500	LED	FA1105W OR			01
* LD209	V3990200	LED	FY1105W YE			01
* LD210	V3666500	LED	FA1105W OR			01
* -218	V3666500	LED	FA1105W OR			01
* LD219	V3990300	LED	TLSU1008 RE			01
* LD220	V3990400	LED	TLOU1008 OR			01
* LD221	V3990600	LED	TLGU1008 GR			01
* LD222	V3990100	LED	FR1105W RE			01
* LD223	V3666500	LED	FA1105W OR			01
* -225	V3666500	LED	FA1105W OR			01
* LD226	V3666500	LED	FA1105W OR			01
* LD400	V3666500	LED	FA1105W OR			01
* -403	V3666500	LED	FA1105W OR			01
* LD404	V3990200	LED	FY1105W YE			01
* LD405	V3990100	LED	FR1105W RE			01
* LD501	V3666500	LED	FA1105W OR			01
* LD502	V3666500	LED	FA1105W OR			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LD601	V3990100	LED	FR1105W RE			01
* -612	V3990100	LED	FR1105W RE			01
* LD613	V3990300	LED	TLSU1008 RE			01
* -623	V3990300	LED	TLSU1008 RE			01
* LD624	V3990400	LED	TLOU1008 OR			01
* -634	V3990400	LED	TLOU1008 OR			01
* RA300	RE046220	Resistor Array	2.2KX4			01
* RA301	RE046220	Resistor Array	2.2KX4			01
SP200	--	Spacer 7-seg.		(V441170)		
SP201	--	Spacer 7-seg.		(V441170)		
* SW100	V4857900	Tact Switch	SKHWAA			01
* SW200	V4857900	Tact Switch	SKHWAA			01
* -212	V4857900	Tact Switch	SKHWAA			01
* SW213	V3612000	Push Switch	SPPH131000			03
* -237	V3612000	Push Switch	SPPH131000			03
* SW400	V3612000	Push Switch	SPPH131000			03
* -405	V3612000	Push Switch	SPPH131000			03
* SW501	V3612000	Push Switch	SPPH131000			03
* SW502	V3612000	Push Switch	SPPH131000			03
* SW601	V3612000	Push Switch	SPPH131000			03
* -612	V3612000	Push Switch	SPPH131000			03
SW701	VR531200	Push Switch	ML1A-11JW			02
-708	VR531200	Push Switch	ML1A-11JW			02
W100	--	Ribbon Cable	P=2.0 #26 5P 230L	(V503950)		
W300	--	Ribbon Cable	P=2.0 #26 9P 120L	(V504020)		
W400	--	Ribbon Cable	P=2.0 #26 8P 180L	(V504000)		
W501	--	Ribbon Cable	P=2.0 #26 5P 160L	(V503940)		
W601	--	Ribbon Cable	P=2.0 #26 10P 320L	(V505350)		
W602	--	Ribbon Cable	P=2.0 #26 8P 100L	(V503990)		
W701	--	Jumper Wire	2760JWFV-P=1.5	(V505360)		
	RD254820	Carbon Resistor (chip)	82.0 0.1 J			01
	RD255390	Carbon Resistor (chip)	390.0 0.1 J			01
*	V43335S0	Circuit Board	CS PNOS2 (OSCOM)	(XW533A0)		
*	V50492S0	Circuit Board	CS PNOS4 (OSCOM)	(XW533A0)		
C7	UF037100	Electrolytic Cap. (chip)	10 16V			01
C9	UF037100	Electrolytic Cap. (chip)	10 16V			01
C11	UF037100	Electrolytic Cap. (chip)	10 16V			01
C16	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C17	UF118220	Electrolytic Cap. (chip)	220 6.3V UUR0J2			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN1	VO022300	Connector, FFC	52044 40P SE			02
CN2	VQ045200	Connector, FFC	52044 22P SE			01
CN9	VI879000	Cable Holder	51048 12P TE			01
CN200	VI878300	Cable Holder	51048 5P TE			01
D01	VT332900	Diode	1SS355 TE-17			01
-70	VT332900	Diode	1SS355 TE-17			01
D200	VT332900	Diode	1SS355 TE-17			01
D201	VT332900	Diode	1SS355 TE-17			01
* EC1	V3612100	Rotary Encoder	EC11E20104			05
* -8	V3612100	Rotary Encoder	EC11E20104			05
EM1	FZ006970	LC Filter	LS MT Y223NB			02
EM2	FZ006970	LC Filter	LS MT Y223NB			02
* IC1	XV013A00	IC	TB62705CF	LED DRIVER		04
* -6	XV013A00	IC	TB62705CF	LED DRIVER		04
* IC7	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
* -9	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
IC10	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC11	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* KB10	V3744500	Switch Knob	LENS/S-GY			01
* KB11	V4624400	Switch Knob	LENS/ GY			01
* KB12	V3744500	Switch Knob	LENS/S-GY			01
* KB13	V4624300	Switch Knob	LENS/M-GY			01
* KB16	V3744500	Switch Knob	LENS/S-GY			01
* KB17	V4629400	Switch Knob	LENS/M-GY /L			03
* KB18	V4629300	Switch Knob	M-GY /M-GY /SHIFT			03
* KB23	V4624300	Switch Knob	LENS/M-GY			01
* KB24	V3744500	Switch Knob	LENS/S-GY			01
* KB25	V4629500	Switch Knob	LENS/M-GY /R			03
* KB26	V4628000	Switch Knob	S-GY /S-GY /INC			03

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
* KB27	V4627900	Switch Knob	S-GY /S-GY /DEC		03
* KB29	V4624300	Switch Knob	LENS/M-GY		01
* KB32	V4624300	Switch Knob	LENS/M-GY		01
* KB35	V4624700	Switch Knob	S-GY /S-GY		01
* -42	V4624700	Switch Knob	S-GY /S-GY		01
* KB44	V4624600	Switch Knob	M-GY /M-GY		01
* -51	V4624600	Switch Knob	M-GY /M-GY		01
* KB52	V4629400	Switch Knob	LENS/M-GY /L		03
* KB53	V4624700	Switch Knob	S-GY /S-GY		01
* -60	V4624700	Switch Knob	S-GY /S-GY		01
* KB61	V4629500	Switch Knob	LENS/M-GY /R		03
* LD01	V3990300	LED	TLSU1008 RE		01
* LD02	V3990500	LED	TLYU1008 YE		01
* LD03	V3990600	LED	TLGU1008 GR		01
* LD04	V3990600	LED	TLGU1008 GR		01
* LD05	V3990500	LED	TLYU1008 YE		01
* LD06	V3990300	LED	TLSU1008 RE		01
* LD07	V3666500	LED	FA1105W OR		01
* LD08	V3990300	LED	TLSU1008 RE		01
* LD09	V3990500	LED	TLYU1008 YE		01
* LD10	V3990600	LED	TLGU1008 GR		01
* LD11	V3990600	LED	TLGU1008 GR		01
* LD12	V3990500	LED	TLYU1008 YE		01
* LD13	V3990300	LED	TLSU1008 RE		01
* LD14	V3990200	LED	FY1105W YE		01
* LD15	V3990600	LED	TLGU1008 GR		01
* LD16	V3990600	LED	TLGU1008 GR		01
* LD17	V3990400	LED	TLOU1008 OR		01
* -19	V3990400	LED	TLOU1008 OR		01
* LD20	V3990300	LED	TLSU1008 RE		01
* LD21	V3990200	LED	FY1105W YE		01
* LD22	V3990600	LED	TLGU1008 GR		01
* LD23	V3990600	LED	TLGU1008 GR		01
* LD24	V3990400	LED	TLOU1008 OR		01
* -26	V3990400	LED	TLOU1008 OR		01
* LD27	V3990300	LED	TLSU1008 RE		01
* LD28	V3666500	LED	FA1105W OR		01
* LD29	V3990300	LED	TLSU1008 RE		01
* LD30	V3990500	LED	TLYU1008 YE		01
* LD31	V3990600	LED	TLGU1008 GR		01
* LD32	V3990600	LED	TLGU1008 GR		01
* LD33	V3990500	LED	TLYU1008 YE		01
* LD34	V3990300	LED	TLSU1008 RE		01
* LD35	V3666500	LED	FA1105W OR		01
* LD36	V3990300	LED	TLSU1008 RE		01
* LD37	V3990500	LED	TLYU1008 YE		01
* LD38	V3990600	LED	TLGU1008 GR		01
* LD39	V3990600	LED	TLGU1008 GR		01
* LD40	V3990500	LED	TLYU1008 YE		01
* LD41	V3990300	LED	TLSU1008 RE		01
* LD42	V3990200	LED	FY1105W YE		01
* LD43	V3990600	LED	TLGU1008 GR		01
* LD44	V3990600	LED	TLGU1008 GR		01
* LD45	V3990400	LED	TLOU1008 OR		01
* -47	V3990400	LED	TLOU1008 OR		01
* LD48	V3990300	LED	TLSU1008 RE		01
* LD49	V3990200	LED	FY1105W YE		01
* LD50	V3990600	LED	TLGU1008 GR		01
* LD51	V3990600	LED	TLGU1008 GR		01
* LD52	V3990400	LED	TLOU1008 OR		01
* -54	V3990400	LED	TLOU1008 OR		01
* LD55	V3990300	LED	TLSU1008 RE		01
* LD56	V3666500	LED	FA1105W OR		01
* -60	V3666500	LED	FA1105W OR		01
* LD61	V3990100	LED	FR1105W RE		01
* LD62	V3666500	LED	FA1105W OR		01
* -68	V3666500	LED	FA1105W OR		01
* LD69	V3990100	LED	FR1105W RE		01
* LD70	V3666500	LED	FA1105W OR		01
* -74	V3666500	LED	FA1105W OR		01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LD75	V3990100	LED	FR1105W RE			01
* LD76	V3666500	LED	FA1105W OR			01
* -78	V3666500	LED	FA1105W OR			01
* LD79	V3990200	LED	FY1105W YE			01
* LD80	V3666500	LED	FA1105W OR			01
* LD81	V3990100	LED	FR1105W RE			01
* LD82	V3990200	LED	FY1105W YE			01
* LD83	V3666500	LED	FA1105W OR			01
* -91	V3666500	LED	FA1105W OR			01
* LD92	V4078100	LED Display	LN426AA01G			05
* LD93	V2451300	LED Display	HCMS2903			12
* -95	V2451300	LED Display	HCMS2903			12
* LDA01	V3990400	LED	TLOU1008 OR			01
* -26	V3990400	LED	TLOU1008 OR			01
* LDA27	V3990500	LED	TLYU1008 YE			01
* LDA28	V3990500	LED	TLYU1008 YE			01
* LDB01	V3990400	LED	TLOU1008 OR			01
* -26	V3990400	LED	TLOU1008 OR			01
* LDB27	V3990500	LED	TLYU1008 YE			01
* LDB28	V3990500	LED	TLYU1008 YE			01
* LDC01	V3990400	LED	TLOU1008 OR			01
* -25	V3990400	LED	TLOU1008 OR			01
* LDC26	V3990300	LED	TLSU1008 RE			01
* LDC27	V3990300	LED	TLSU1008 RE			01
* LDC28	V3990500	LED	TLYU1008 YE			01
* LDC29	V3990400	LED	TLOU1008 OR			01
* LDC30	V3990300	LED	TLSU1008 RE			01
* LDD01	V3990400	LED	TLOU1008 OR			01
* -27	V3990400	LED	TLOU1008 OR			01
* LDD28	V3990500	LED	TLYU1008 YE			01
* LDD29	V3990400	LED	TLOU1008 OR			01
* LDD30	V3990300	LED	TLSU1008 RE			01
* LDE01	V3990400	LED	TLOU1008 OR			01
* -25	V3990400	LED	TLOU1008 OR			01
* LDE26	V3990300	LED	TLSU1008 RE			01
* LDE27	V3990300	LED	TLSU1008 RE			01
* LDF01	V3990400	LED	TLOU1008 OR			01
* -25	V3990400	LED	TLOU1008 OR			01
* LDF26	V3990300	LED	TLSU1008 RE			01
* LDF27	V3990300	LED	TLSU1008 RE			01
* LDG01	V3990400	LED	TLOU1008 OR			01
* -25	V3990400	LED	TLOU1008 OR			01
* LDH01	V3990400	LED	TLOU1008 OR			01
* -25	V3990400	LED	TLOU1008 OR			01
* LD200	V3666500	LED	FA1105W OR			01
* LD201	V3990200	LED	FY1105W YE			01
* RA1	RE046220	Resistor Array	2.2KX4			01
* -6	RE046220	Resistor Array	2.2KX4			01
* SC93	V4938000	IC Socket	122-99-312			04
* -95	V4938000	IC Socket	122-99-312			04
SP92	--	Spacer 7-seg.		(V441150)		
SP93	--	Spacer		(V441180)		
-95	--	Spacer		(V441180)		
* SW01	V3612000	Push Switch	SPPH131000			03
* -09	V3612000	Push Switch	SPPH131000			03
* SW10	V4857900	Tact Switch	SKHWAA			01
* -13	V4857900	Tact Switch	SKHWAA			01
* SW14	V3612000	Push Switch	SPPH131000			03
* SW15	V3612000	Push Switch	SPPH131000			03
* SW16	V4857900	Tact Switch	SKHWAA			01
* -18	V4857900	Tact Switch	SKHWAA			01
* SW19	V3612000	Push Switch	SPPH131000			03
* -22	V3612000	Push Switch	SPPH131000			03
* SW23	V4857900	Tact Switch	SKHWAA			01
* -27	V4857900	Tact Switch	SKHWAA			01
* SW28	V3612000	Push Switch	SPPH131000			03
* SW29	V4857900	Tact Switch	SKHWAA			01
* SW30	V3612000	Push Switch	SPPH131000			03
* SW31	V3612000	Push Switch	SPPH131000			03
* SW32	V4857900	Tact Switch	SKHWAA			01

*: New Parts

RANK: Japan only

REF. NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* SW33	V3612000	Push Switch	SPPH131000			03
* SW34	V3612000	Push Switch	SPPH131000			03
* SW35	V4857900	Tact Switch	SKHWAA			01
* -42	V4857900	Tact Switch	SKHWAA			01
* SW43	V3612000	Push Switch	SPPH131000			03
* SW44	V4857900	Tact Switch	SKHWAA			01
* -61	V4857900	Tact Switch	SKHWAA			01
* SW62	V3612000	Push Switch	SPPH131000			03
* -70	V3612000	Push Switch	SPPH131000			03
* SW200	V3612000	Push Switch	SPPH131000			03
* SW201	V3612000	Push Switch	SPPH131000			03
TR1	VV556400	Transistor	2SC2412K Q,R,S			01
W9	--	Ribbon Cable	P=2.0 #26 12P 120L	(V505370)		
W200	--	Ribbon Cable	P=2.0 #26 5P 80L	(V503960)		
	RD254820	Carbon Resistor (chip)	82.0 0.1 J			01
	RD255390	Carbon Resistor (chip)	390.0 0.1 J			01
	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
	RD256220	Carbon Resistor (chip)	2.2K 0.1 J			01
*	V43334S0	Circuit Board	CS PNO51L	(XW532A0)		
C1	UF037100	Electrolytic Cap. (chip)	10 16V			01
C3	UF037100	Electrolytic Cap. (chip)	10 16V			01
C5	UF037100	Electrolytic Cap. (chip)	10 16V			01
C7	UF037100	Electrolytic Cap. (chip)	10 16V			01
C9	UF037100	Electrolytic Cap. (chip)	10 16V			01
C24	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C25	UF118220	Electrolytic Cap. (chip)	220 6.3V UUR0J2			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN1	VI878400	Cable Holder	51048 6P TE			01
CN2	VI878400	Cable Holder	51048 6P TE			01
CN3	VO022300	Connector, FFC	52044 40P SE			02
CN4	VO022300	Connector, FFC	52044 40P SE			02
D1	VT332900	Diode	1SS355 TE-17			01
-17	VT332900	Diode	1SS355 TE-17			01
* EC1	V3612100	Rotary Encoder	EC11E20104			05
* -25	V3612100	Rotary Encoder	EC11E20104			05
EM1	FZ006970	LC Filter	LS MT Y223NB			02
EM2	FZ006970	LC Filter	LS MT Y223NB			02
* IC1	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
* -5	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
* IC6	XV013A00	IC	TB62705CF	LED DRIVER		04
* -18	XV013A00	IC	TB62705CF	LED DRIVER		04
IC19	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC20	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* KB8	V4624300	Switch Knob	LENS/M-GY			01
* KB13	V3744500	Switch Knob	LENS/S-GY			01
* LD01	V3990400	LED	TLOU1008 OR			01
* -07	V3990300	LED	TLSU1008 RE			01
* LD08	V3666500	LED	FA1105W OR			01
* LD09	V3990200	LED	FY1105W YE			01
* LD10	V3990200	LED	FY1105W YE			01
* LD11	V3666500	LED	FA1105W OR			01
* -15	V3666500	LED	FA1105W OR			01
* LD16	V3990100	LED	FR1105W RE			01
* -21	V3990100	LED	FR1105W RE			01
* LD22	V3666500	LED	FA1105W OR			01
* -24	V3666500	LED	FA1105W OR			01
* LD101	V4078200	LED Display	LNM423AS01			06
* -112	V4078000	LED Display	LNM433AS01			06
* LDA01	V3990400	LED	TLOU1008 OR			01
* -27	V3990400	LED	TLOU1008 OR			01
* LDB01	V3990400	LED	TLOU1008 OR			01
* -25	V3990400	LED	TLOU1008 OR			01
* LDC01	V3990400	LED	TLOU1008 OR			01
* -27	V3990400	LED	TLOU1008 OR			01
* LDD01	V3990400	LED	TLOU1008 OR			01
* -25	V3990400	LED	TLOU1008 OR			01
* LDE01	V3990400	LED	TLOU1008 OR			01
* -27	V3990400	LED	TLOU1008 OR			01
* LDF01	V3990400	LED	TLOU1008 OR			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* -25	V3990400	LED	TLOU1008 OR			01
* LDG01	V3990400	LED	TLOU1008 OR			01
* -27	V3990400	LED	TLOU1008 OR			01
* LDH01	V3990400	LED	TLOU1008 OR			01
* -25	V3990400	LED	TLOU1008 OR			01
* LDJ01	V3990400	LED	TLOU1008 OR			01
* -27	V3990400	LED	TLOU1008 OR			01
* LDK01	V3990400	LED	TLOU1008 OR			01
* -25	V3990400	LED	TLOU1008 OR			01
* LDL01	V3990400	LED	TLOU1008 OR			01
* -27	V3990400	LED	TLOU1008 OR			01
* LDM01	V3990400	LED	TLOU1008 OR			01
* -25	V3990400	LED	TLOU1008 OR			01
* LDN01	V3990400	LED	TLOU1008 OR			01
* -31	V3990400	LED	TLOU1008 OR			01
* LDP01	V3990400	LED	TLOU1008 OR			01
* -25	V3990400	LED	TLOU1008 OR			01
* LDP26	V3990600	LED	TLGU1008 GR			01
* LDP27	V3990600	LED	TLGU1008 GR			01
* LDP28	V3990400	LED	TLOU1008 OR			01
* -30	V3990400	LED	TLOU1008 OR			01
* LDP31	V3990300	LED	TLSU1008 RE			01
* RA1	RE046220	Resistor Array	2.2KX4			01
* -10	RE046220	Resistor Array	2.2KX4			01
SP101	--	Spacer 7-seg.		(V441160)		
SP102	--	Spacer 7-seg.		(V441160)		
SP103	--	Spacer 7-seg.		(V441170)		
-112	--	Spacer 7-seg.		(V441170)		
* SW1	V3612000	Push Switch	SPPH131000			03
* -7	V3612000	Push Switch	SPPH131000			03
* SW8	V4857900	Tact Switch	SKHWAA			01
* SW9	V3612000	Push Switch	SPPH131000			03
* -12	V3612000	Push Switch	SPPH131000			03
* SW13	V4857900	Tact Switch	SKHWAA			01
* SW14	V3612000	Push Switch	SPPH131000			03
* -17	V3612000	Push Switch	SPPH131000			03
W1	--	Ribbon Cable	P=2.0 #26 6P 420L	(V503980)		
W2	--	Ribbon Cable	P=2.0 #26 6P 420L	(V503980)		
	RD254820	Carbon Resistor (chip)	82.0 0.1 J			01
	RD255390	Carbon Resistor (chip)	390.0 0.1 J			01
* C404	V44527S0	Circuit Board	CS PNOS1R	(XW636A0)		
C405	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C406	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C407	UF037100	Electrolytic Cap. (chip)	10 16V			01
	UF037100	Electrolytic Cap. (chip)	10 16V			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN400	VQ045500	Connector, FFC	52044 26P SE			02
CN401	VQ045000	Connector, FFC	52044 20P SE			01
CN402	VI878700	Cable Holder	51048 9P TE			01
D200	VT332900	Diode	1SS355 TE-17			01
-212	VT332900	Diode	1SS355 TE-17			01
* EC200	V3612100	Rotary Encoder	EC11E20104			05
* -205	V3612100	Rotary Encoder	EC11E20104			05
EM400	FZ006970	LC Filter	LS MT Y223NB			02
EM401	FZ006970	LC Filter	LS MT Y223NB			02
* IC400	XV013A00	IC	TB62705CF	LED DRIVER		04
* -403	XV013A00	IC	TB62705CF	LED DRIVER		04
* IC404	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
* IC405	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
IC406	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC407	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* KB206	V4629400	Switch Knob	LENS/M-GY /L			03
* KB207	V4629500	Switch Knob	LENS/M-GY /R			03
* KB210	V4629400	Switch Knob	LENS/M-GY /L			03
* KB211	V4629500	Switch Knob	LENS/M-GY /R			03
* LDA0	V3990400	LED	TLOU1008 OR			01
* -25	V3990400	LED	TLOU1008 OR			01
* LDA26	V3990500	LED	TLYU1008 YE			01
* LDA27	V3990500	LED	TLYU1008 YE			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
* LDB0	V3990400	LED	TLOU1008 OR		01
* -25	V3990400	LED	TLOU1008 OR		01
* LDB26	V3990500	LED	TLYU1008 YE		01
* LDB27	V3990500	LED	TLYU1008 YE		01
* LDC0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDC25	V3990300	LED	TLSU1008 RE		01
* LDC26	V3990300	LED	TLSU1008 RE		01
* LDC27	V3990500	LED	TLYU1008 YE		01
* LDC28	V3990400	LED	TLOU1008 OR		01
* LDC29	V3990300	LED	TLSU1008 RE		01
* LDD0	V3990400	LED	TLOU1008 OR		01
* -26	V3990400	LED	TLOU1008 OR		01
* LDD27	V3990500	LED	TLYU1008 YE		01
* LDD28	V3990400	LED	TLOU1008 OR		01
* LDD29	V3990300	LED	TLSU1008 RE		01
* LDE0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDE25	V3990300	LED	TLSU1008 RE		01
* -30	V3990300	LED	TLSU1008 RE		01
* LDF0	V3990400	LED	TLOU1008 OR		01
* -24	V3990400	LED	TLOU1008 OR		01
* LDF25	V3990300	LED	TLSU1008 RE		01
* LDF26	V3990300	LED	TLSU1008 RE		01
* LDG0	V3990300	LED	TLSU1008 RE		01
* LDG1	V3990500	LED	TLYU1008 YE		01
* LDG2	V3990600	LED	TLGU1008 GR		01
* LDG3	V3990600	LED	TLGU1008 GR		01
* LDG4	V3990500	LED	TLYU1008 YE		01
* LDG5	V3990300	LED	TLSU1008 RE		01
* LDG6	V3666500	LED	FA1105W OR		01
* LDG7	V3666500	LED	FA1105W OR		01
* LDG8	V3990300	LED	TLSU1008 RE		01
* LDG9	V3990500	LED	TLYU1008 YE		01
* LDG10	V3990600	LED	TLGU1008 GR		01
* LDG11	V3990600	LED	TLGU1008 GR		01
* LDG12	V3990500	LED	TLYU1008 YE		01
* LDG13	V3990300	LED	TLSU1008 RE		01
* LDG14	V3990200	LED	FY1105W YE		01
* LDG15	V3666500	LED	FA1105W OR		01
* LDG16	V3990600	LED	TLGU1008 GR		01
* LDG17	V3990600	LED	TLGU1008 GR		01
* LDG18	V3990400	LED	TLOU1008 OR		01
* -20	V3990400	LED	TLOU1008 OR		01
* LDG21	V3990300	LED	TLSU1008 RE		01
* LDG22	V3990200	LED	FY1105W YE		01
* LDG23	V3666500	LED	FA1105W OR		01
* LDG24	V3990600	LED	TLGU1008 GR		01
* LDG25	V3990600	LED	TLGU1008 GR		01
* LDG26	V3990400	LED	TLOU1008 OR		01
* -28	V3990400	LED	TLOU1008 OR		01
* LDG29	V3990300	LED	TLSU1008 RE		01
* LDG30	V3666500	LED	FA1105W OR		01
* LDG31	V3666500	LED	FA1105W OR		01
* LDG32	V3990300	LED	TLSU1008 RE		01
* LDG33	V3990500	LED	TLYU1008 YE		01
* LDG34	V3990600	LED	TLGU1008 GR		01
* LDG35	V3990600	LED	TLGU1008 GR		01
* LDG36	V3990500	LED	TLYU1008 YE		01
* LDG37	V3990300	LED	TLSU1008 RE		01
* LDG38	V3666500	LED	FA1105W OR		01
* LDG39	V3666500	LED	FA1105W OR		01
* LDG40	V3990300	LED	TLSU1008 RE		01
* LDG41	V3990500	LED	TLYU1008 YE		01
* LDG42	V3990600	LED	TLGU1008 GR		01
* LDG43	V3990600	LED	TLGU1008 GR		01
* LDG44	V3990500	LED	TLYU1008 YE		01
* LDG45	V3990300	LED	TLSU1008 RE		01
* LDG46	V3990200	LED	FY1105W YE		01
* LDG47	V3990600	LED	TLGU1008 GR		01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LDG48	V3990600	LED	TLGU1008 GR			01
* LDG49	V3990400	LED	TLOU1008 OR			01
* -51	V3990400	LED	TLOU1008 OR			01
* LDG52	V3990300	LED	TLSU1008 RE			01
* LDG53	V3990200	LED	FY1105W YE			01
* LDG54	V3990600	LED	TLGU1008 GR			01
* LDG55	V3990600	LED	TLGU1008 GR			01
* LDG56	V3990400	LED	TLOU1008 OR			01
* -58	V3990400	LED	TLOU1008 OR			01
* LDG59	V3990300	LED	TLSU1008 RE			01
* LDG60	V3666500	LED	FA1105W OR			01
* LD200	V2451300	LED Display	HCMS2903			12
* LD201	V2451300	LED Display	HCMS2903			12
* RA400	RE046220	Resistor Array	2.2KX4			01
* -403	RE046220	Resistor Array	2.2KX4			01
* SC200	V4938000	IC Socket	122-99-312			04
* SC201	V4938000	IC Socket	122-99-312			04
SP200	--	Spacer	LAFORET	(V441180)		
SP201	--	Spacer	LAFORET	(V441180)		
* SW200	V3612000	Push Switch	SPPH131000			03
* -205	V3612000	Push Switch	SPPH131000			03
* SW206	V4857900	Tact Switch	SKHWAA			01
* SW207	V4857900	Tact Switch	SKHWAA			01
* SW208	V3612000	Push Switch	SPPH131000			03
* SW209	V3612000	Push Switch	SPPH131000			03
* SW210	V4857900	Tact Switch	SKHWAA			01
* SW211	V4857900	Tact Switch	SKHWAA			01
* SW212	V3612000	Push Switch	SPPH131000			03
W402	--	Ribbon Cable	P=2.0 #26 9P 510L	(V504030)		
	RD254820	Carbon Resistor (chip)	82.0 0.1 J			01
	RD255390	Carbon Resistor (chip)	390.0 0.1 J			01
* C14	V43336S0	Circuit Board	CS OSCPU	(XW534B0)		
C33	UF037100	Electrolytic Cap. (chip)	10 16V			01
-35	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C36	UF046470	Electrolytic Cap. (chip)	220 16V UUR1C2			01
-38	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C45	UF138220	Electrolytic Cap. (chip)	4.7 25V			01
-47	UF138220	Electrolytic Cap. (chip)	220 16V UUR1C2			01
C48	UF046470	Electrolytic Cap. (chip)	220 16V UUR1C2			01
-50	UF046470	Electrolytic Cap. (chip)	4.7 25V			01
C144	UF128220	Electrolytic Cap. (chip)	4.7 25V			01
C145	UF128220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C146	UF148220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C155	UF128220	Electrolytic Cap. (chip)	220 25V UUR1E2			02
C156	UF118220	Electrolytic Cap. (chip)	220 10V UUR1A2			01
C157	UF118220	Electrolytic Cap. (chip)	220 6.3V UUR0J2			01
C300	UF027220	Electrolytic Cap. (chip)	220 6.3V UUR0J2			01
	UB012470	Monolithic Ceramic Cap.	22 10V			01
	UB245100	Monolithic Ceramic Cap.	B 470P 50V K			01
CN1	VB389900	Connector Base Post	F 0.1 25V Z			01
-6	VB389900	Connector Base Post	PH- 3P TE			01
CN7	VA030400	Base Post Connector	PH- 3P TE			01
-12	VA030400	Base Post Connector	5483 4P TE			01
CN13	VQ047700	Connector, FFC	5483 4P TE			01
CN14	VO022100	Connector, FFC	52045 22P TE			02
CN15	VQ047500	Connector, FFC	52045 40P TE			01
CN16	VP327200	Connector, FFC	52045 20P TE			01
CN17	VB390600	Connector Base Post	52045 30P TE			01
CN18	LB932070	Base Post Connector	PH-10P TE			01
CN19	VN520900	Connector, FFC	VH- 7P TE			01
CN20	VK024900	Wire Trap	52045 26P TE			02
-23	VK024900	Wire Trap	52147 5P TE			01
CN24	VO022100	Connector, FFC	52147 5P TE			01
CN25	VK025200	Wire Trap	52045 40P TE			02
CN26	VO022100	Connector, FFC	52147 8P TE			01
CN27	VK025200	Wire Trap	52045 40P TE			02
CN28	VK025200	Wire Trap	52147 8P TE			01
CN29	VF728200	Wire Trap	52147 8P TE			01
			52147 10P TE			01

*: New Parts

RANK: Japan only

REF. NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
CN30	VK025200	Wire Trap	52147 8P TE			01
CN31	VE851200	Wire Trap	52004 11P TE			01
CN32	VK025200	Wire Trap	52147 8P TE			01
CN33	VK025100	Wire Trap	52147 7P TE			01
-36	VK025100	Wire Trap	52147 7P TE			01
CN37	LB932060	Base Post Connector	VH- 6P TE			01
CN38	VK025300	Wire Trap	52147 9P TE			01
CN39	VK025300	Wire Trap	52147 9P TE			01
CN40	VF728300	Wire Trap	52147 6P TE			01
CN41	VK025600	Wire Trap	52147 12P TE			01
CN42	VF728300	Wire Trap	52147 6P TE			01
CN43	VB390000	Connector Base Post	PH- 4P TE			01
EM1	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
EM2	FZ006970	LC Filter	LS MT Y223NB			02
EM3	FZ006970	LC Filter	LS MT Y223NB			02
EM4	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
* EM5	V6246100	EMI Filter (chip)	NFM3212R13C223RT1			01
EM6	FZ006970	LC Filter	LS MT Y223NB			02
EM8	VQ761400	EMI Filter (chip)	NFM40R01C101T1			01
EM9	FZ006970	LC Filter	LS MT Y223NB			02
-11	FZ006970	LC Filter	LS MT Y223NB			02
* IC1	XV685A00	IC	MBM29F400BC-70PFTN	FRASH ROM 4M		11
IC2	XY715A00	IC	HD6437042AF28	CPU		10
* IC3	XV013A00	IC	TB62705CF	LED DRIVER		04
* IC4	XV013A00	IC	TB62705CF	LED DRIVER		04
IC5	XT163A00	IC	TC74HC238AF	LINE DECORDER		03
* IC6	XV014A00	IC	TD62M8600F	SOURCE DRIVER		05
* IC7	IS405210	IC	SN74LV4052ANSR	MULTIPLEXER		02
* -10	IS405210	IC	SN74LV4052ANSR	MULTIPLEXER		02
IC11	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-14	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC15	IS027300	IC	HD74LV273AFPEL	D-FF		02
* -17	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC18	IS013810	IC	SN74LV138ANSR	DECODER		01
IC19	XH610A00	IC	HD74LS06FPEL	INVERTER		02
IC20	XF557A00	IC	TA7291S	MOTOR DRIVER		03
-25	XF557A00	IC	TA7291S	MOTOR DRIVER		03
* IC26	IS013810	IC	SN74LV138ANSR	DECODER		01
* IC27	XV973A00	IC	SGH603064F-62F	GATE ARRAY		07
* -29	XV973A00	IC	SGH603064F-62F	GATE ARRAY		07
IC30	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC31	XP226A00	IC	IC-PST591DMT	SYSTEM RESET		03
* IC32	IS000800	IC	HD74LV08AFPEL	AND		01
* LD1	V3990300	LED	TLSU1008 RE			01
R51	HV754100	Flame Proof C. Resistor	10.0 1/4 J			01
-56	HV754100	Flame Proof C. Resistor	10.0 1/4 J			01
R57	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
-59	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
R66	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
-68	VC756300	Metal Oxide Film Resistor	10.0 2W J			01
	RD250000	Carbon Resistor (chip)	0.0 0.0 J			01
	RD254820	Carbon Resistor (chip)	82.0 0.1 J			01
	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
	RD255330	Carbon Resistor (chip)	330.0 0.1 J			01
	RD255680	Carbon Resistor (chip)	680.0 0.1 J			01
	RD256300	Carbon Resistor (chip)	3.0K 0.1 J			01
	RD256680	Carbon Resistor (chip)	6.8K 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
RA1	RE047100	Resistor Array	10KX4			01
-18	RE047100	Resistor Array	10KX4			01
* RA19	RE046220	Resistor Array	2.2KX4			01
* -22	RE046220	Resistor Array	2.2KX4			01
TA1	VQ248500	Transistor Array	TD62381F			04
* X1	V3990700	Ceramic Resonator	CSTCC7.16MG0H6-TC			01
	--	Circuit Board	CS STI	(V411300)(XW351A0)		
C215	UF038100	Electrolytic Cap. (chip)	100 16V			01
C225	UF037470	Electrolytic Cap. (chip)	47 16V			01
C227	UF037470	Electrolytic Cap. (chip)	47 16V			01

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C229	UF037470	Electrolytic Cap. (chip)	47 16V			01
C231	UF037470	Electrolytic Cap. (chip)	47 16V			01
	VP864400	Mylar Capacitor (chip)	0.0047 16V J			01
	FG252100	Monolithic Ceramic Cap.	100P 50V			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
	UB445330	Monolithic Ceramic Cap.	F 0.33 16V Z			01
CN200	VT640300	Receptacle	PHEC 100P SE			04
EM200	FZ006970	LC Filter	LS MT Y223NB			02
IC100	XU815A00	IC	DS26C32ATMX	LINE RECEIVER		06
* IC101	IS012500	IC	HD74LV125AFPEL	BUFFER		01
* IC102	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC200	XW422A00	IC	M51953AFP	SYSTEM RESET		01
IC201	XG948E00	IC	YM3436DK	DIR2		11
IC202	XG948E00	IC	YM3436DK	DIR2		11
* IC203	XV453A00	IC	AD1890JP	ASRC		14
* IC204	XV453A00	IC	AD1890JP	ASRC		14
* IC205	IS027300	IC	HD74LV273AFPEL	D-FF		02
* -207	IS027300	IC	HD74LV273AFPEL	D-FF		02
IC208	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC209	IS013810	IC	SN74LV138ANSR	DECODER		01
IC210	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
-213	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC214	IS012500	IC	HD74LV125AFPEL	BUFFER		01
* -216	IS012500	IC	HD74LV125AFPEL	BUFFER		01
* IC217	IS007400	IC	HD74LV74AFPEL	D-FF		01
* IC218	IS012500	IC	HD74LV125AFPEL	BUFFER		01
* IC219	IS000800	IC	HD74LV08AFPEL	AND		01
* IC220	IS003200	IC	HD74LV32AFPEL	OR		01
* IC221	IS000400	IC	HD74LV04AFPEL	INVERTER		01
* IC222	XW422A00	IC	M51953AFP	SYSTEM RESET		01
* IC223	IS000400	IC	HD74LV04AFPEL	INVERTER		01
JK100	VL958600	XLM Connector	XLM-3-31PCV			08
JK101	VK437600	Pin Connector	YKC21-3182 1P			02
JK102	VL958600	XLM Connector	XLM-3-31PCV			08
JK103	VK437600	Pin Connector	YKC21-3182 1P			02
L100	VP246200	Noise Filter	ZJY51R5-8P			07
L101	VP246100	Pluse Transformer	P17H			07
-104	VP246100	Pluse Transformer	P17H			07
L200	VS740100	Chip Inductance	BLM21B751S 2125			03
L221	VS740100	Chip Inductance	BLM21B751S 2125			03
L228	VS740100	Chip Inductance	BLM21B751S 2125			03
X200	VV349100	Quartz Crystal Unit	20.0MHz DSO751S			08
	RD254750	Carbon Resistor (chip)	75.0 0.1 J			01
	RD255100	Carbon Resistor (chip)	100.0 0.1 J			01
	RD255110	Carbon Resistor (chip)	110.0 0.1 J			01
	RD256330	Carbon Resistor (chip)	3.3K 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
	--	Circuit Board	CS STO1 (STCOM)	(V439750)(XW352A0)		
	--	Circuit Board	CS STO2 (STCOM)	(V411310)(XW352A0)		
C1	UF038100	Electrolytic Cap. (chip)	100 16V			01
C104	UF038100	Electrolytic Cap. (chip)	100 16V			01
	FG252100	Monolithic Ceramic Cap.	100P 50V			01
	UB051330	Monolithic Ceramic Cap.	SL 33P 50V J			01
	UB052100	Monolithic Ceramic Cap.	SL 100P 50V J			01
	UB245100	Monolithic Ceramic Cap.	F 0.1 25V Z			01
CN1	VT640300	Receptacle	PHEC 100P SE			04
CN2	VK024900	Wire Trap	52147 5P TE			01
CN101	VI878300	Cable Holder	51048 5P TE			01
DA100	VV556300	Diode Array	DAN217 0.3A X2			01
DA101	VV556300	Diode Array	DAN217 0.3A X2			01
EM1	FZ006970	LC Filter	LS MT Y223NB			02
EM100	FZ006920	LC Filter	LS MT B271KB			01
-102	FZ006970	LC Filter	LS MT Y223NB			02
* IC1	IS013810	IC	SN74LV138ANSR	DECODER		01
IC2	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
IC3	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03
* IC4	IS027300	IC	HD74LV273AFPEL	D-FF		02
* IC5	IS027300	IC	HD74LV273AFPEL	D-FF		02
IC6	XT487A00	IC	TC74VHC245F	TRANSCEIVER		03

*: New Parts

RANK: Japan only

REF.NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
IC7	XM530A00	IC	YM3437C-F			07
-10	XM530A00	IC	YM3437C-F			07
IC11	XU996A00	IC	AM26LS31CNSR			05
* IC12	IS000800	IC	HD74LV08AFPEL			01
IC13	XT487A00	IC	TC74VHC245F			03
* IC14	IS003200	IC	HD74LV32AFPEL			01
IC100	XV930A00	IC	SN75124NSR			05
IC101	XU816A00	IC	SN75121NSR			05
JK1	VL958700	XLM Connector	XLM-3-32PCV			07
JK2	VK437600	Pin Connector	YKC21-3182 1P			02
JK3	VL958700	XLM Connector	XLM-3-32PCV			07
JK4	VK437600	Pin Connector	YKC21-3182 1P			02
JK100	VI552200	BNC Connector	YKS11-0 1P			05
JK10	VI552200	BNC Connector	YKS11-0 1P			05
1	VP246100	Pulse Transformer	P17H			07
L1	VP246100	Pulse Transformer	P17H			07
-4	VP246200	Noise Filter	ZJY51R5-8P			07
L5	VS740100	Chip Inductance	BLM21B751S 2125			03
L6	VS740100	Chip Inductance	BLM21B751S 2125			03
-9	VS740100	Chip Inductance	BLM21B751S 2125			03
L11	VS740100	Chip Inductance	BLM21B751S 2125			03
-26	VS740100	Chip Inductance	BLM21B751S 2125			03
L100	VS740100	Chip Inductance	BLM21B751S 2125			03
L101	VR365100	Slide Switch	SSSF112-S06N1			02
SW100	--	Ribbon Cable	P=2.0 #26 5P 80L	(V503960)		
W101	RD253470	Carbon Resistor (chip)	4.7 0.1 J			01
	RD254100	Carbon Resistor (chip)	10.0 0.1 J			01
	RD254390	Carbon Resistor (chip)	39.0 0.1 J			01
	RD254430	Carbon Resistor (chip)	43.0 0.1 J			01
	RD254470	Carbon Resistor (chip)	47.0 0.1 J			01
	RD254750	Carbon Resistor (chip)	75.0 0.1 J			01
	RD255220	Carbon Resistor (chip)	220.0 0.1 J			01
	RD256220	Carbon Resistor (chip)	2.2K 0.1 J			01
	RD257100	Carbon Resistor (chip)	10.0K 0.1 J			01
* CN101	V5049800	Circuit Board	CS TPSW	(XY488A0)		
	VB858300	Connector Base Post	PH 4P SE			01
	VN517600	Connector, FFC	FM 8P SE			01
* CN102	V5453800	Knob				
* KB101	V5453800	Knob				
KB102	V4857900	Tact Switch	SKHWAA			01
SW101	V4857900	Tact Switch	SKHWAA			01
SW102	HF457100	Carbon Resistor	10.0K 1/4 J			01
△	V4704800	Power Supply Unit				
	VN103500	Lithium Battery	CR2032			03
	VN383300	Connector	NK-27-31S			19
	V4761400	CPU Card	SCE8700C01			63
	XY208A00	IC	CF64MB	FLASH CARD		71
	V5789100	Motor	DC KDE1208PTS3-6	Fan		09
	VA728100	XLM Connector	XLR-4-31-F77			10
	V4739100	LCD	NL8060AC31-12G			91
	V5077500	Fader Assembly	3P			16
	V5077400	Encoder Assembly	REC & PH4P			20
	V4748500	Glide Point				14

*: New Parts

RANK: Japan only

CONTROL SURFACE


CSID

CIRCUIT DIAGRAM

■ CONTENTS

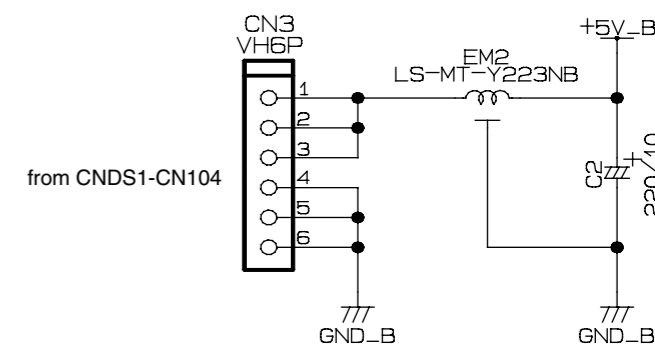
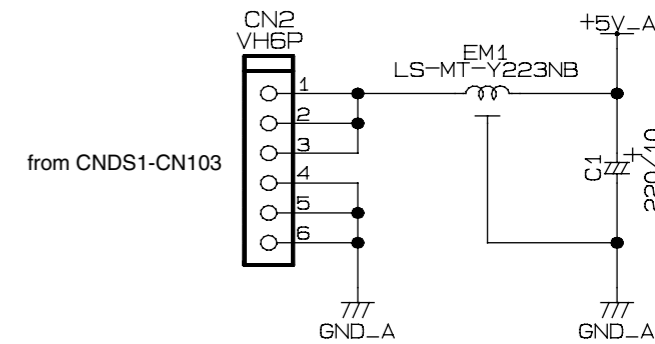
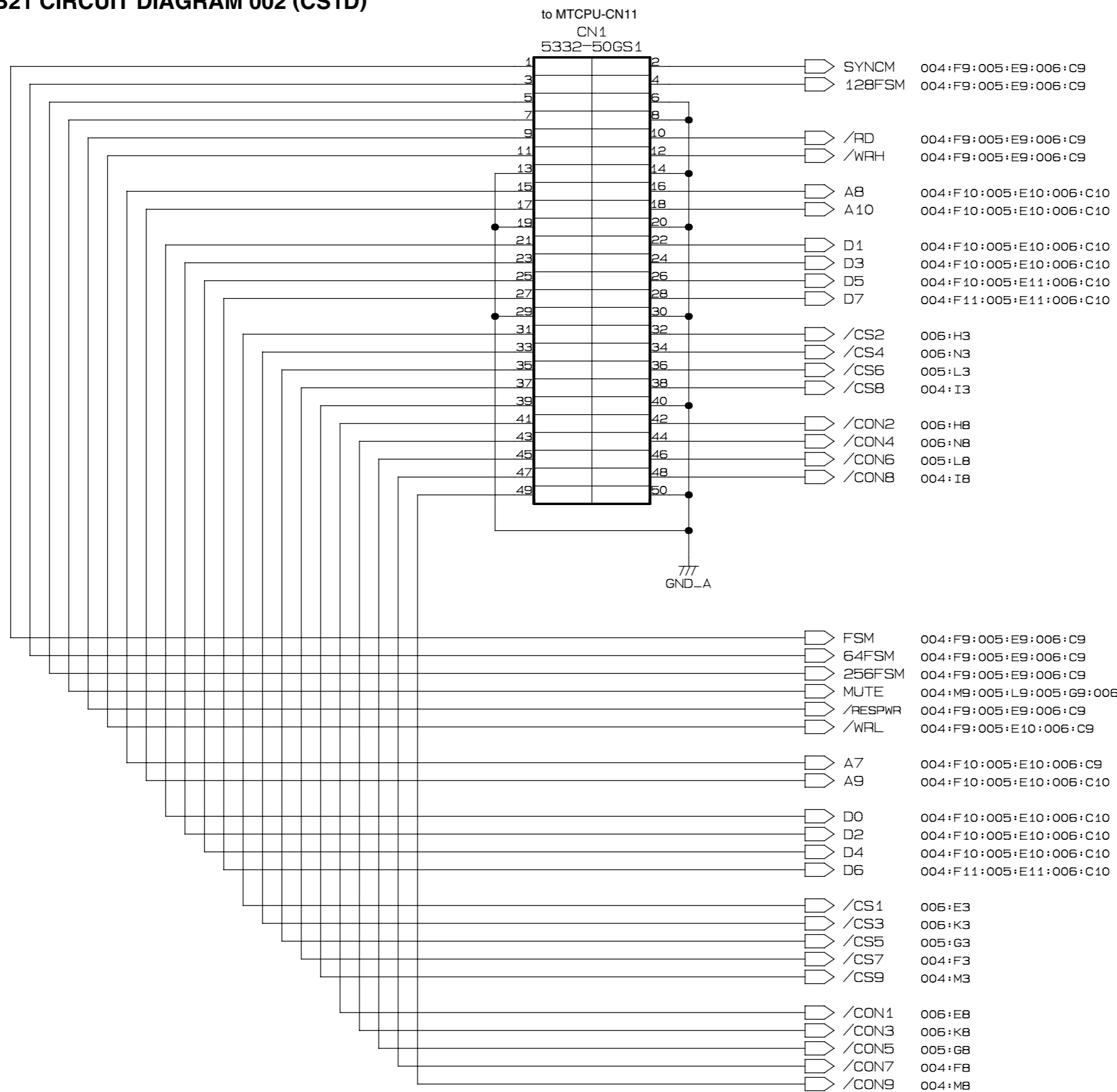
MB21.....	3	MSCPU	100
MB22.....	8	PNM1	109
MB23.....	9	PNM2	122
MIO	10	PNM3	123
CIO.....	13	PNM4.....	124
ST1	15	PNOS1L.....	125
AE1	17	PNOS1C.....	133
STO1.....	21	PNOS1R.....	135
STO2.....	22	PNOS2.....	138
AD2	23	PNOS3.....	145
MO1-2.....	26	PNOS4.....	146
MO2-2.....	27	PNOS5.....	147
PNC1	28	PNOS6.....	148
EIF,CCAS	38	PNI2	149
CMU1.....	45	HMVOL A2, HMOVOL B2.....	150
CMU2.....	53	TB1-2,TB1CAN2	151
MTG	59	CUTBVL2.....	152
MTCPU	60	OSCPU	153
CNDS1	69	CRDC1.....	162
CNDS2.....	70	CRDC2.....	165
CNDS3.....	73	TPSW.....	166
ADA2.....	74	ISCPU	167
PNC2	76	PNIS1.....	174
PCIF	78	PNIS2.....	184
PS2HP	86	PNIS3.....	193
MT1	87	PNIS4.....	194
MT2,MT3.....	91	PHNAB2.....	195
LAMPVR	96	PNI1	196
DRS,DRN,DRL	97	INCPU.....	206
LCDIF.....	98	PS2000 CONNECTOR DIAGRAM	213
LCDC	99		

■ WARNING

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

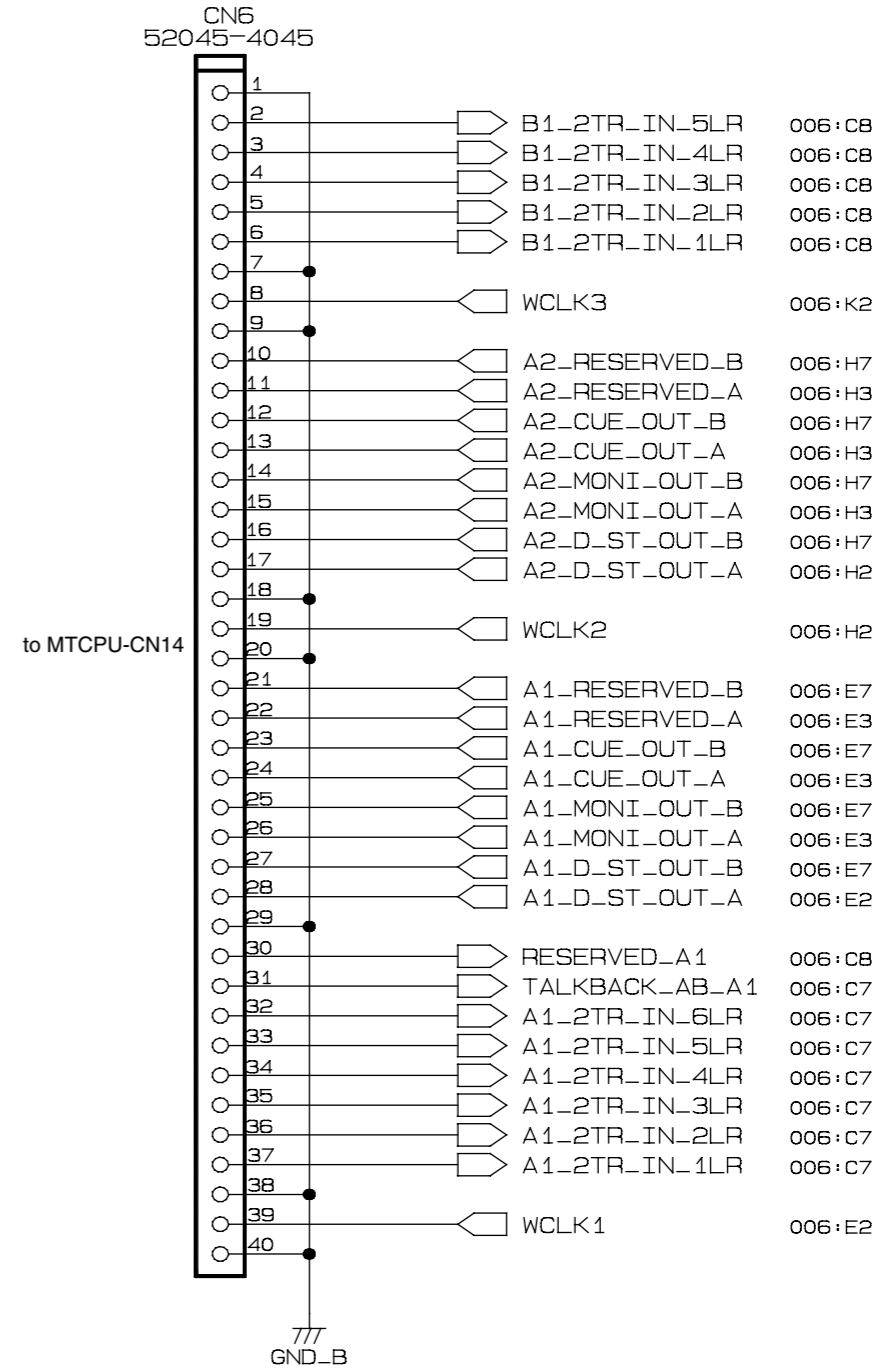
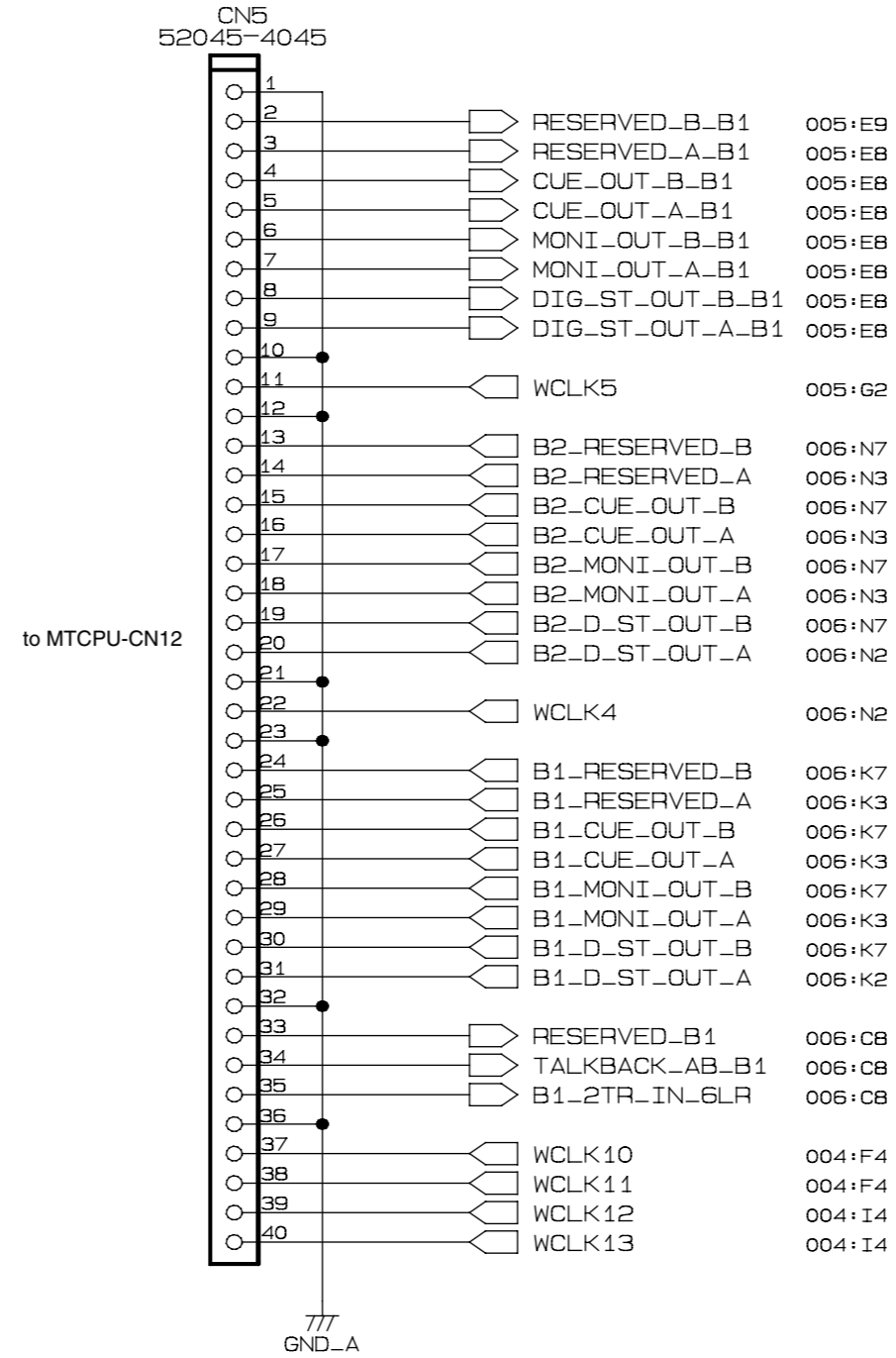
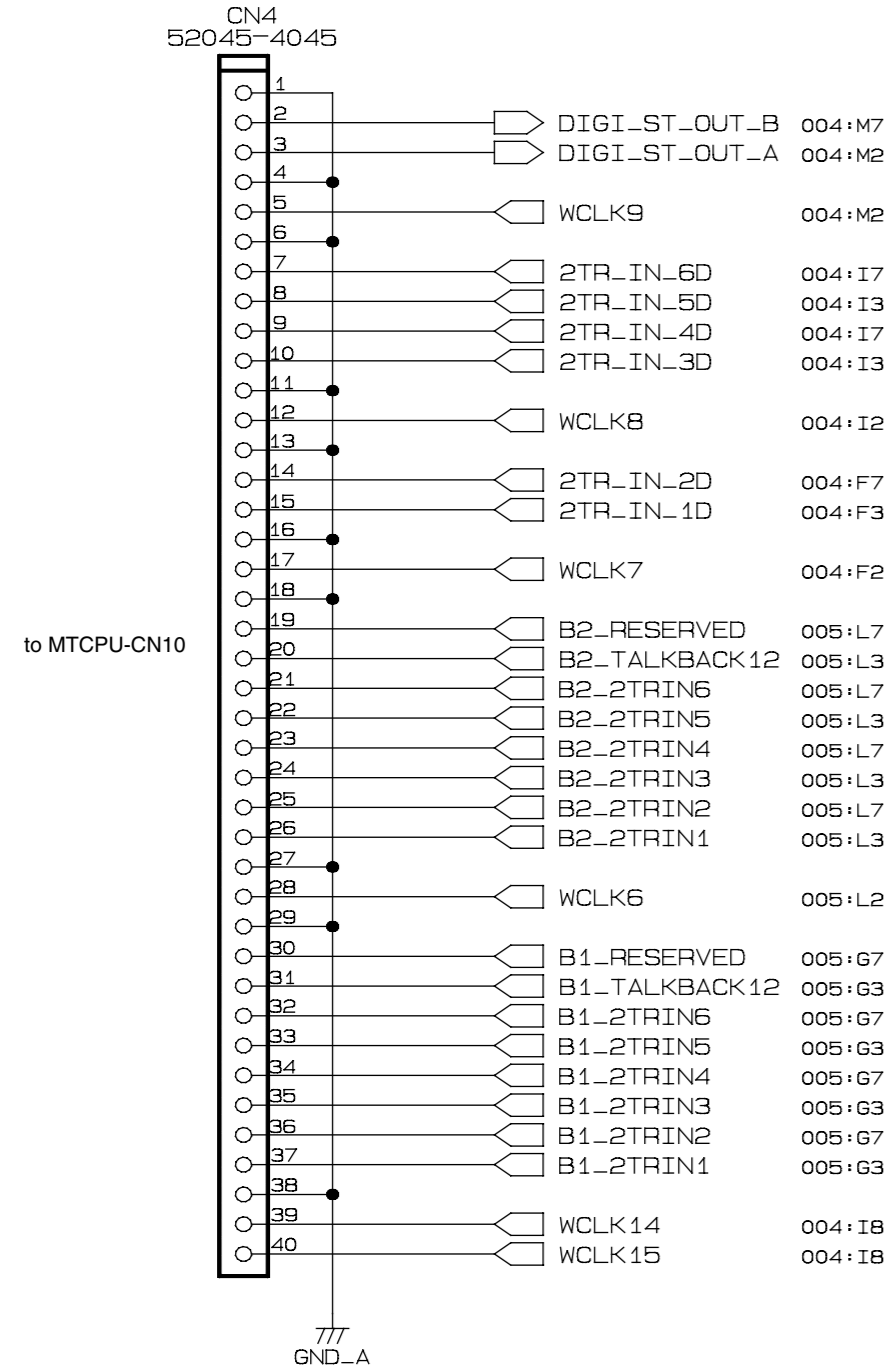
MB21 CIRCUIT DIAGRAM 002 (CS1D)

CS1D



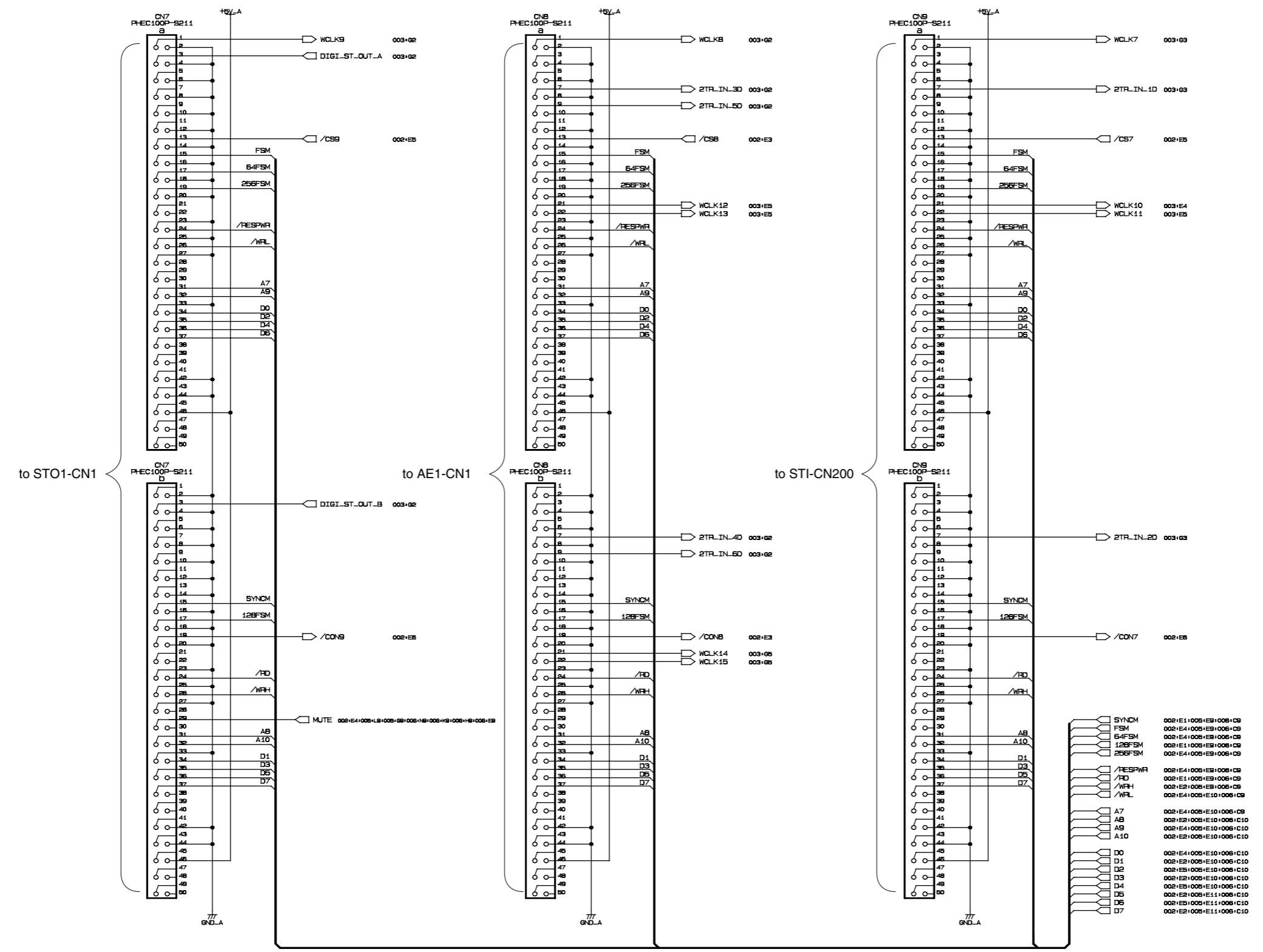
MB21 CIRCUIT DIAGRAM 003 (CS1D)

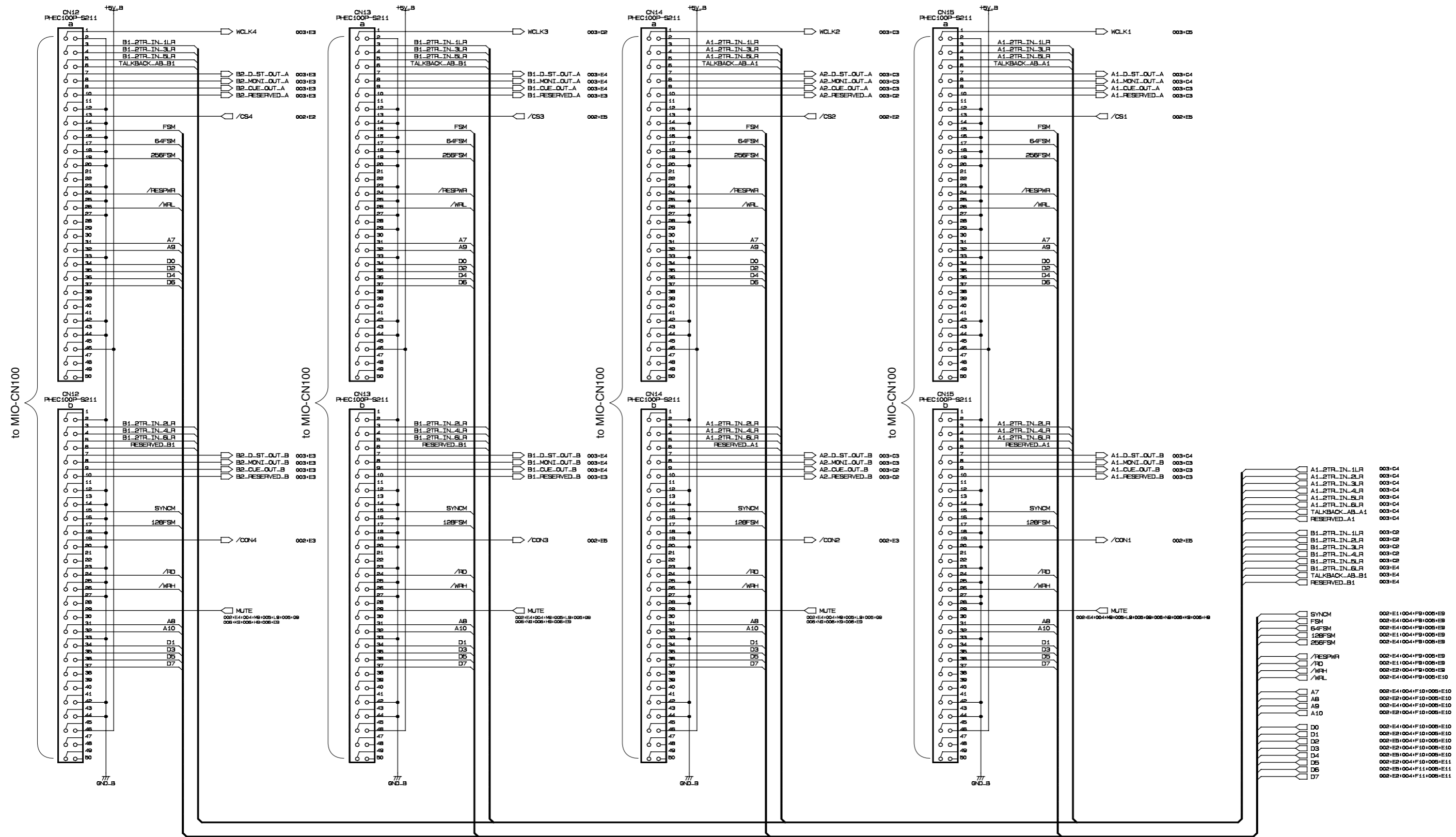
CS1D



MB21 CIRCUIT DIAGRAM 004 (CS1D)

CS1D

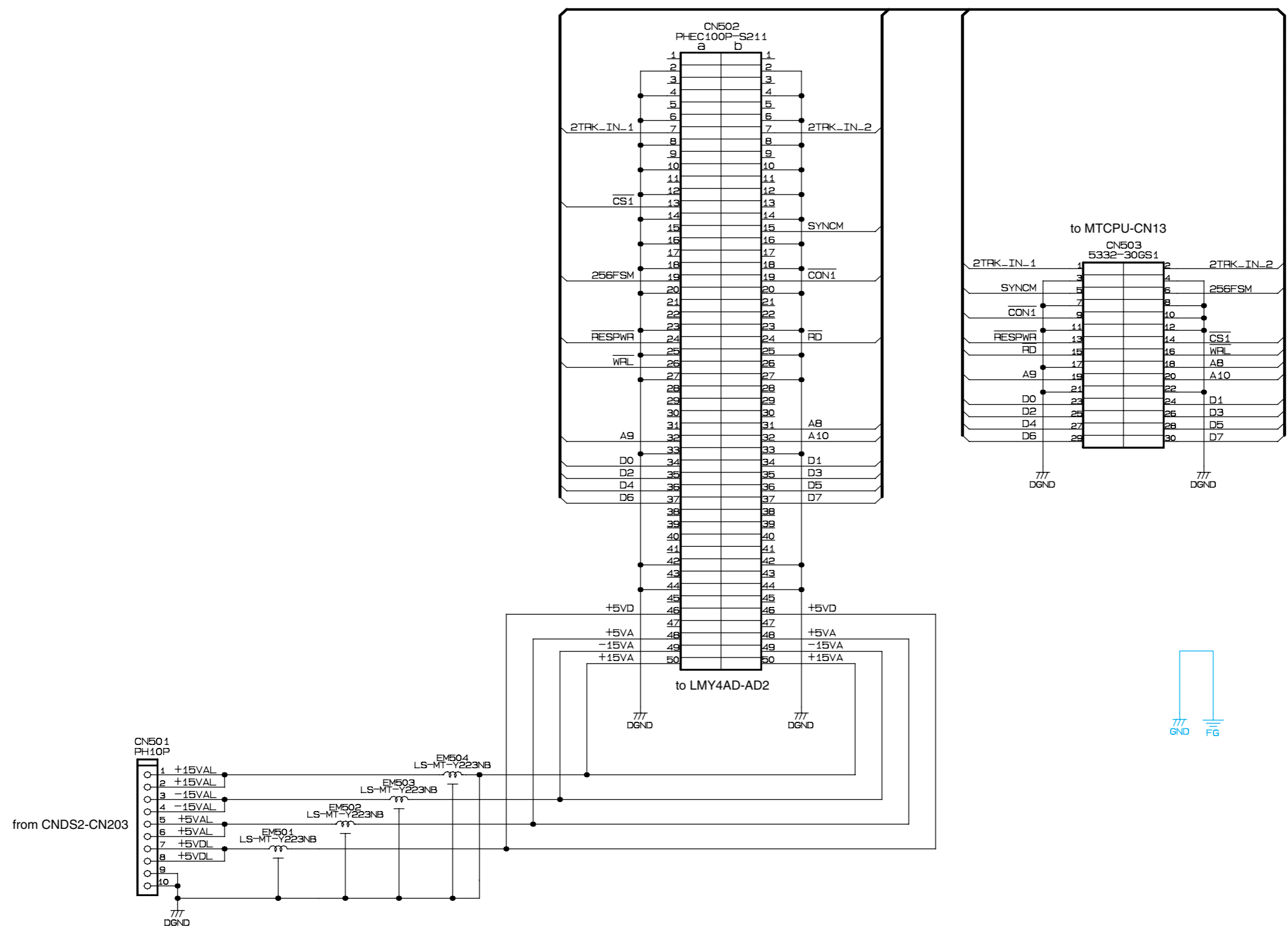




MB22 CIRCUIT DIAGRAM (CS1D)

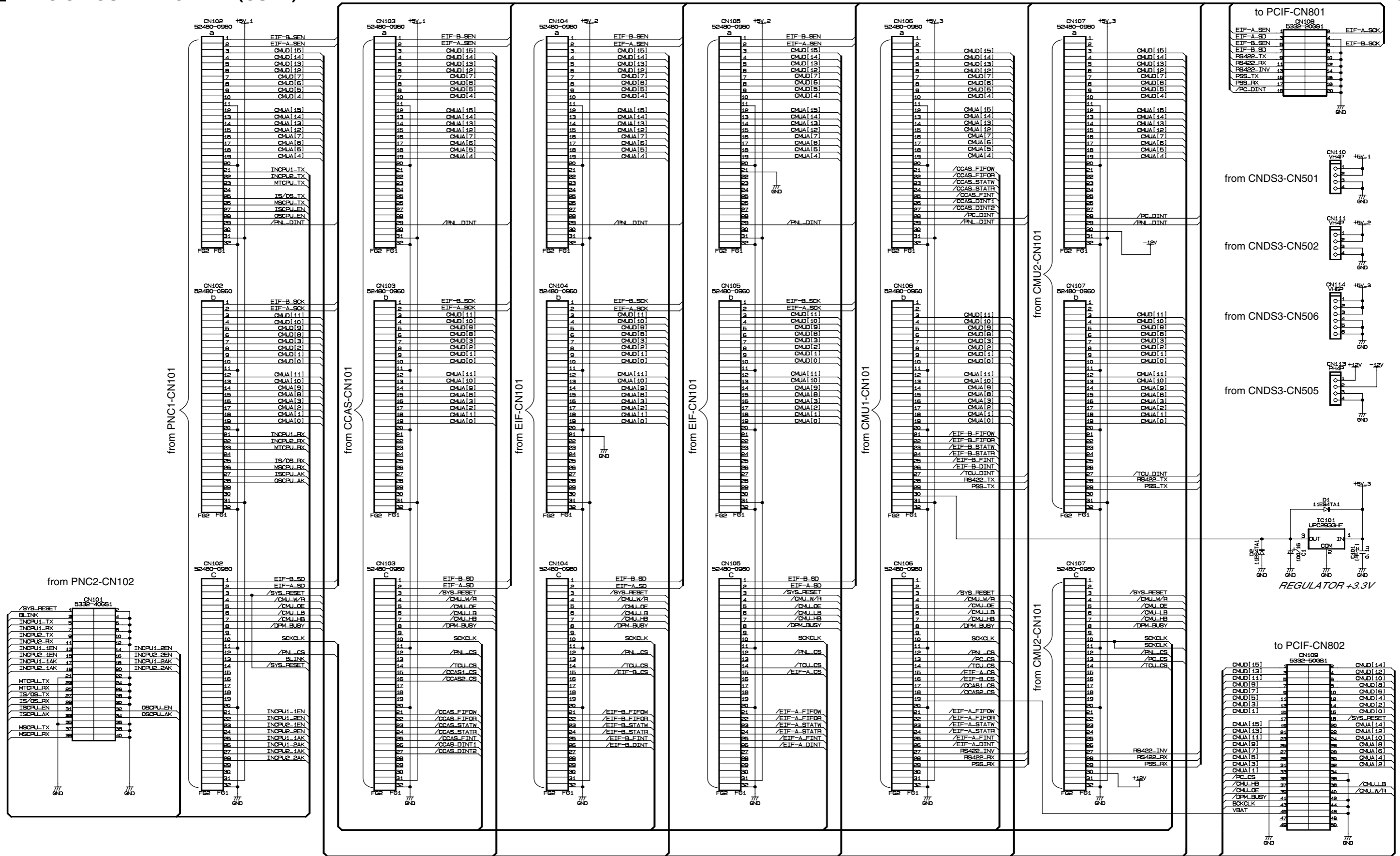
CS1D

1
2
3
4
5
6
7
8



MB23 CIRCUIT DIAGRAM (CS1D)

CS1D

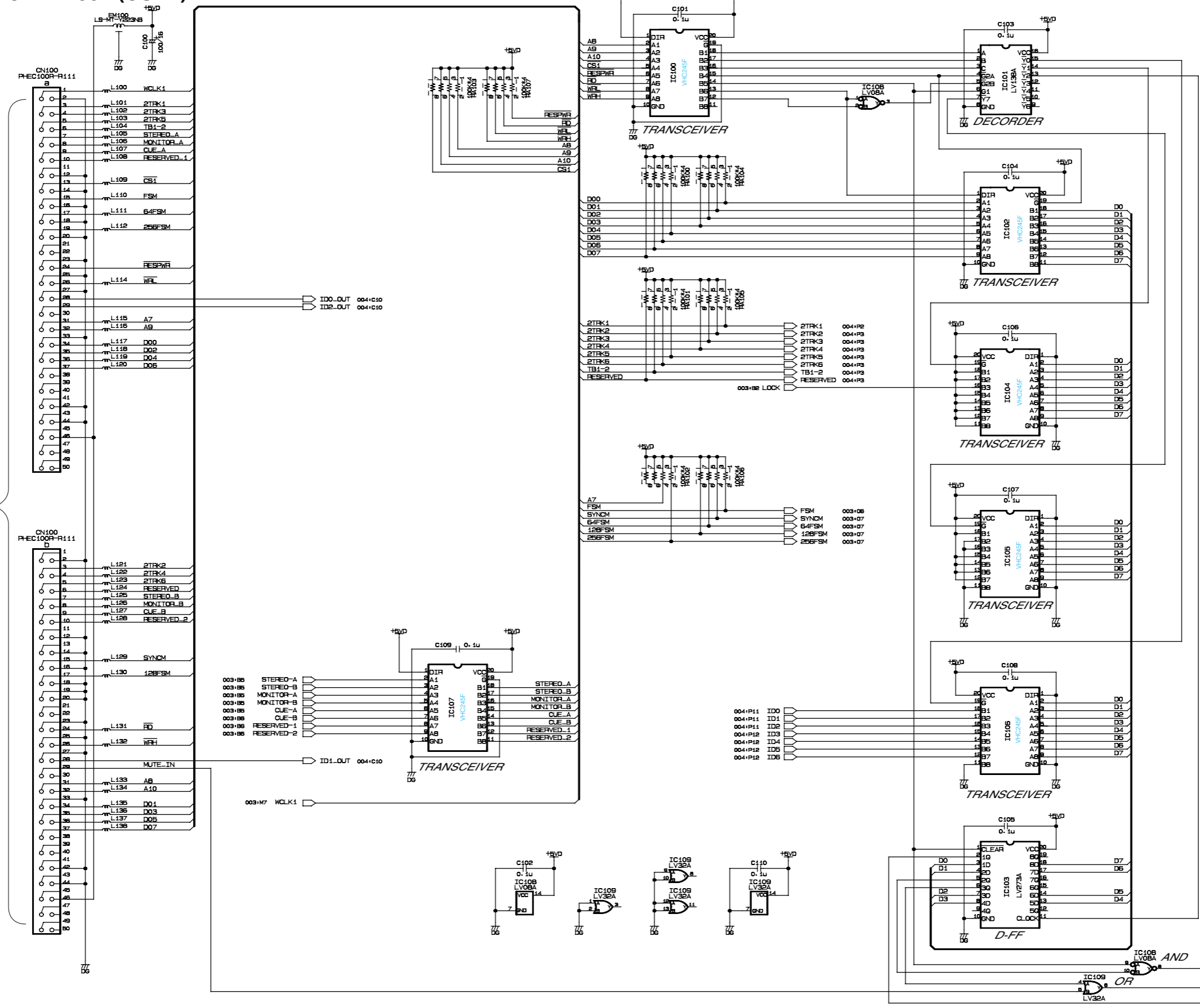


(≠±): Semiconductive Cera Cap

MIO CIRCUIT DIAGRAM 002 (CS1D)

CS1D

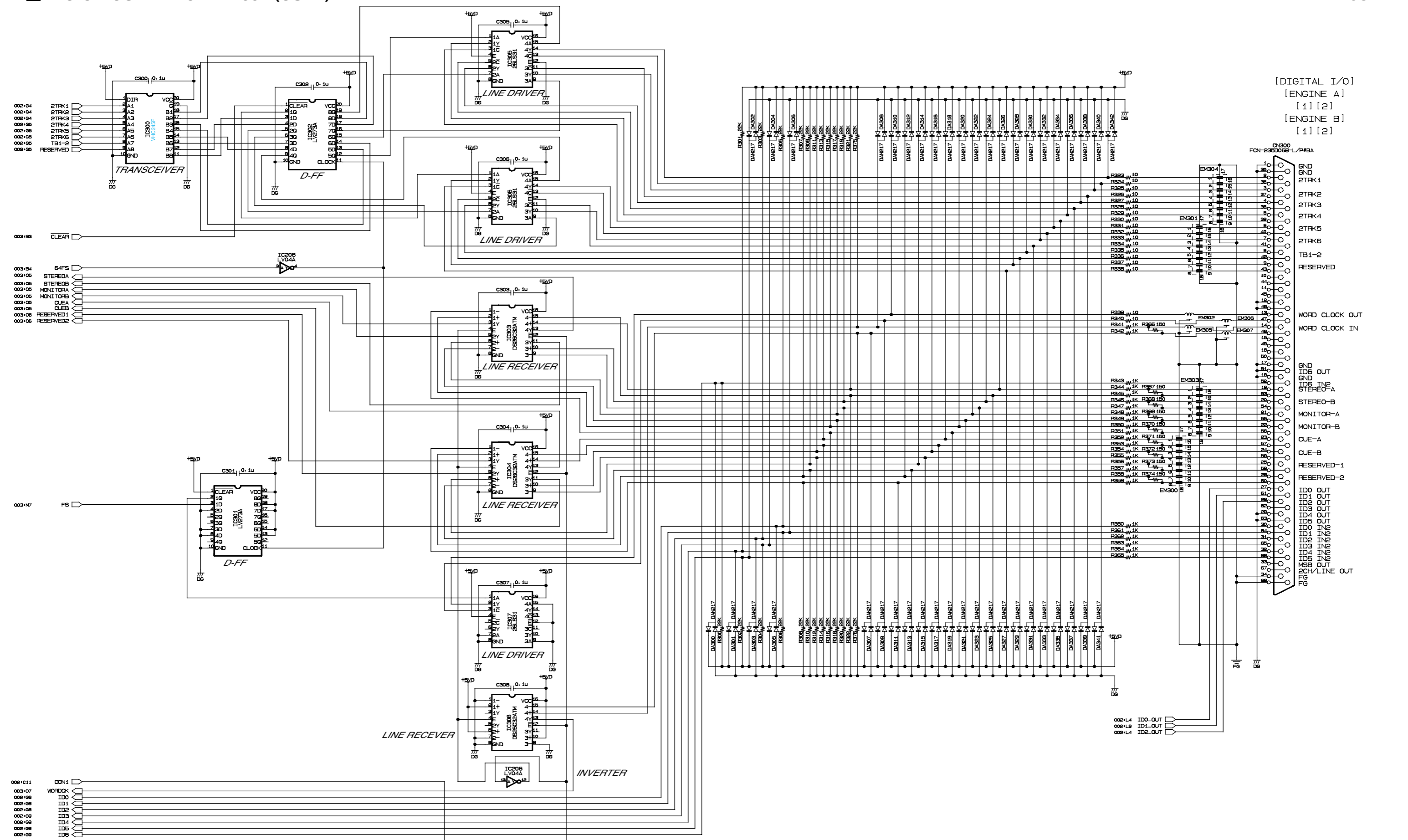
1
2
3
4
5
6
7
8
9
10
11
12



to MB21-CN12, CN13, -CN14, CN15

MIO CIRCUIT DIAGRAM 004 (CS1D)

CS1D



[DIGITAL I/O]
 [ENGINE A]
 [1][2]
 [ENGINE B]
 [1][2]

GN D
 2TRK1
 2TRK2
 2TRK3
 2TRK4
 2TRK5
 2TRK6
 TB1-2
 RESERVED

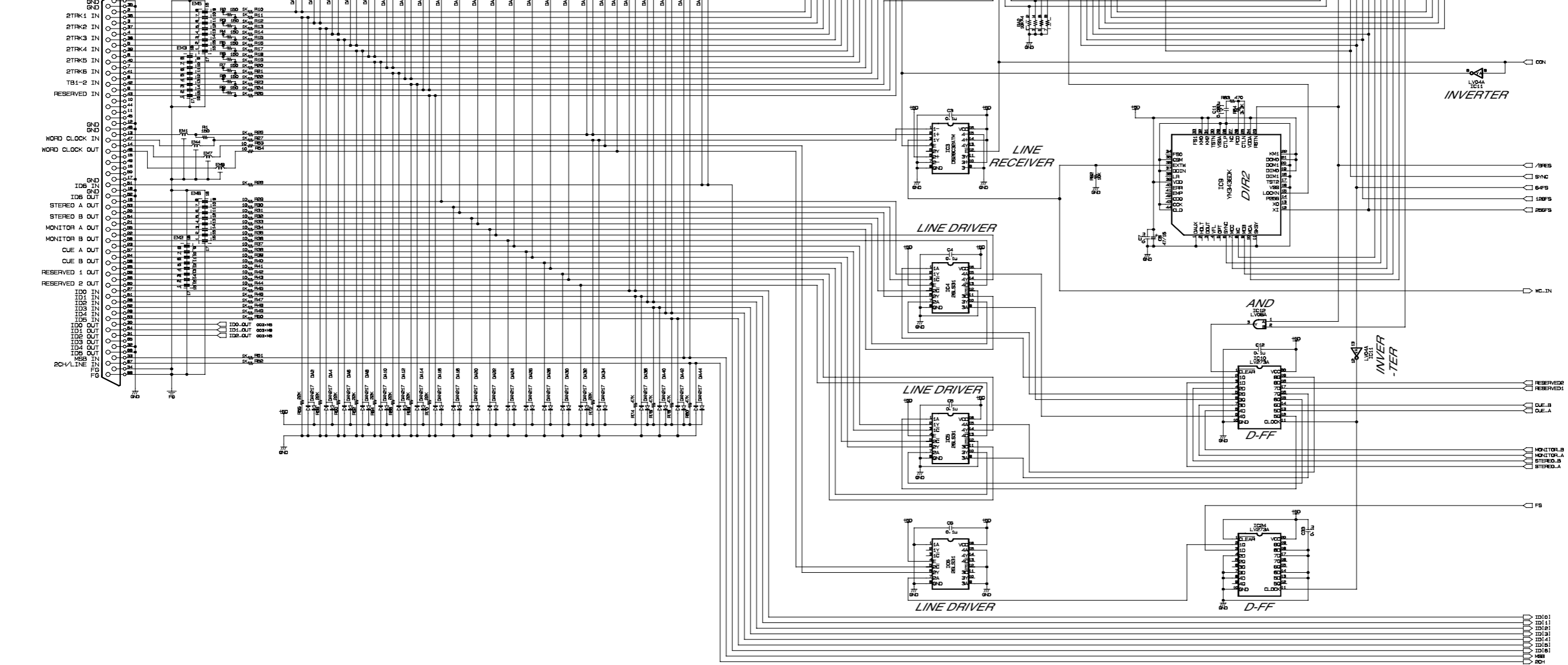
WORD CLOCK OUT
 WORD CLOCK IN

GN D
 ID6 OUT
 GN D
 STEREO-A
 STEREO-B
 MONITOR-A
 MONITOR-B
 CUE-A
 CUE-B
 RESERVED-1
 RESERVED-2

ID0 OUT
 ID1 OUT
 ID2 OUT
 ID3 OUT
 ID4 OUT
 ID5 OUT
 ID6 IN
 ID0 IN
 ID1 IN
 ID2 IN
 ID3 IN
 ID4 IN
 ID5 IN
 ID6 IN
 LINE OUT

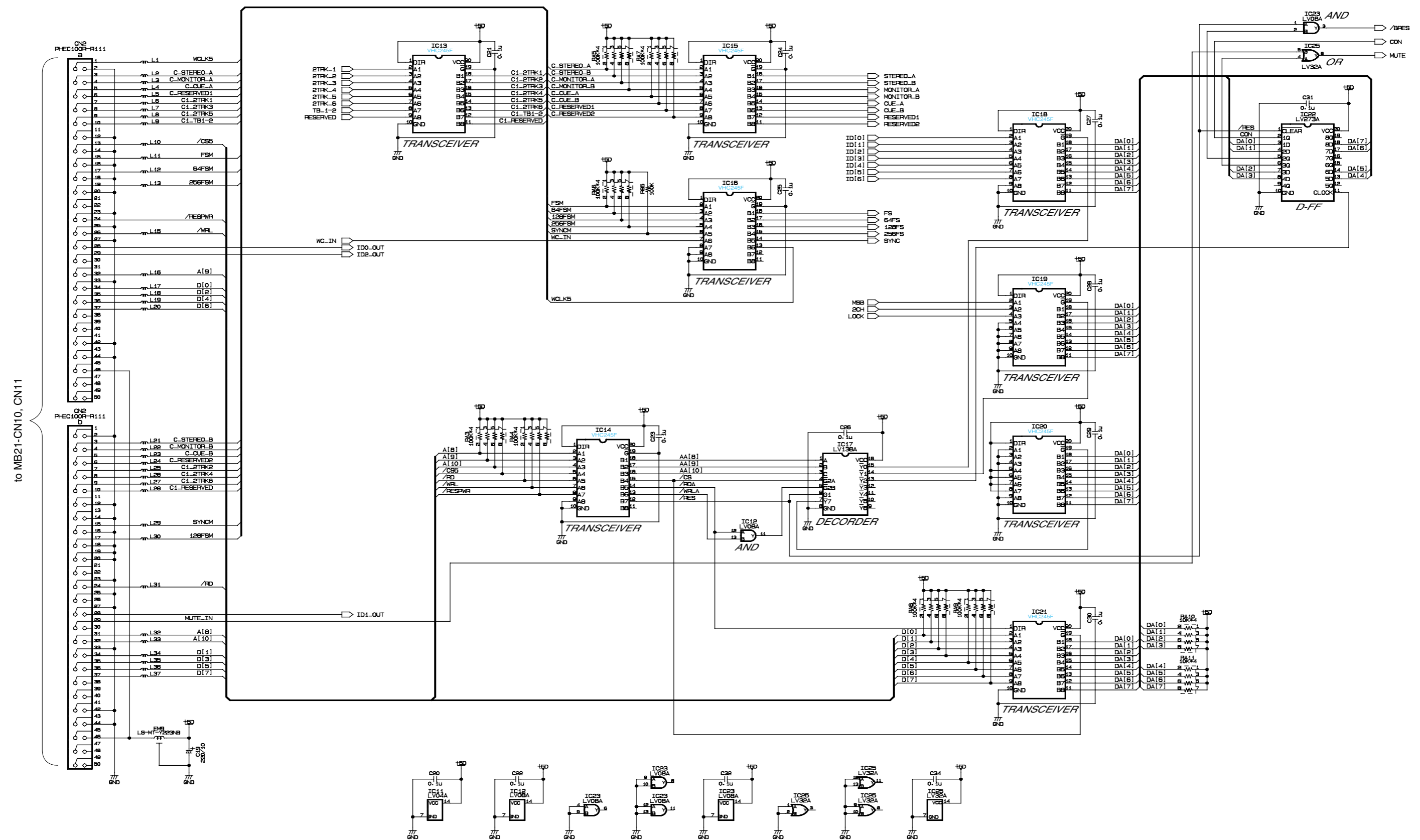
ID0_OUT
 ID1_OUT
 ID2_OUT

[DIGITAL I/O]
[CONSOLE]
[1][2]



■ CIO CIRCUIT DIAGRAM 2/2 (CS1D)

CS1D



to MB21-CN10, CN11

STI CIRCUIT DIAGRAM 1/2 (CS1D)

CS1D

[2-TRACK IN DIGITAL]

[AES/EBU]

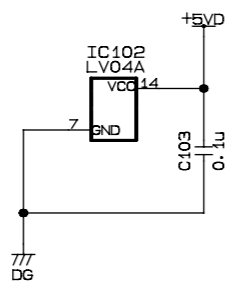
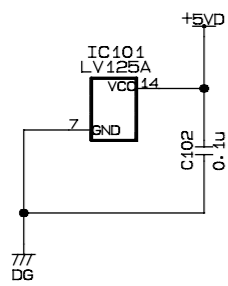
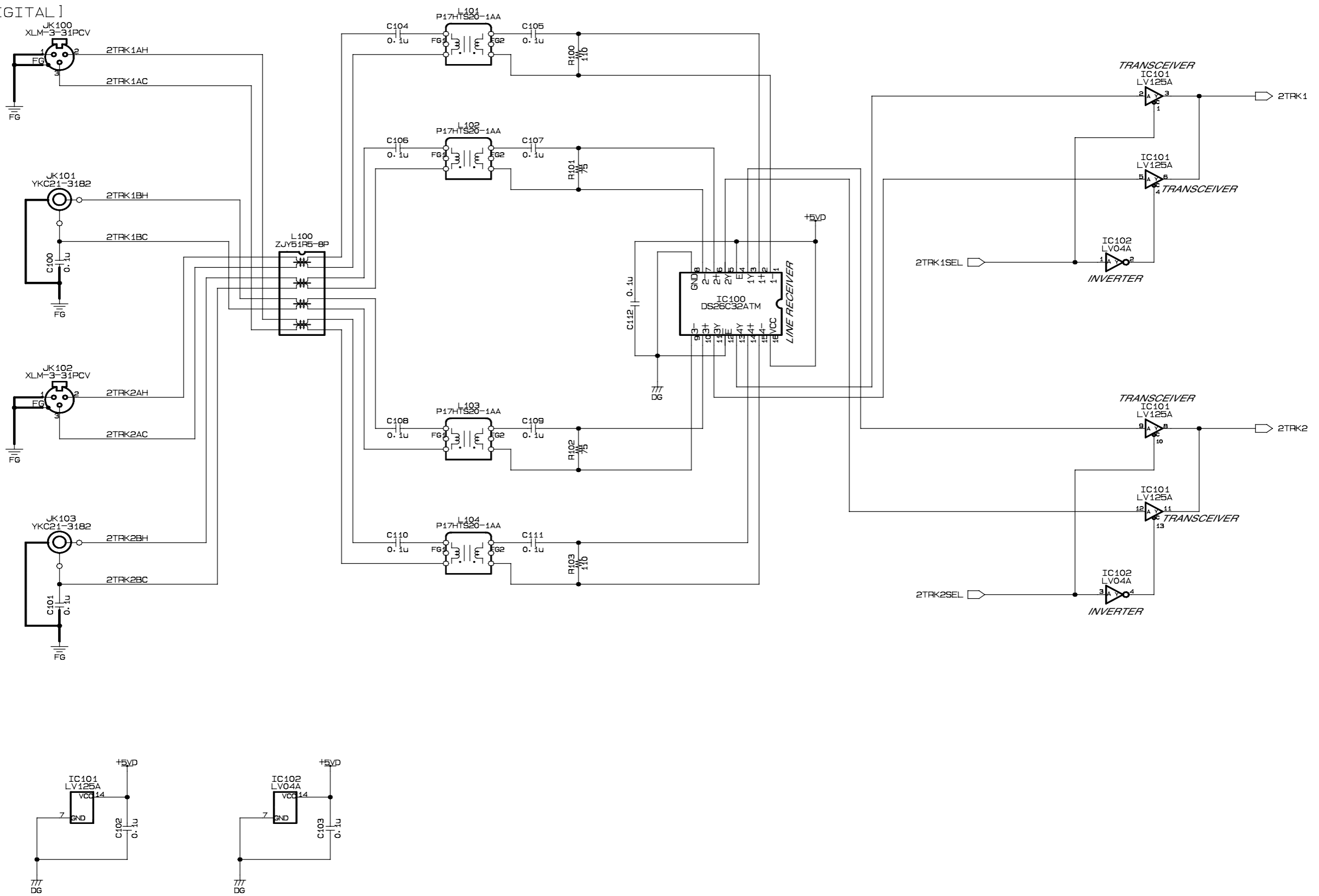
[1]

[COAXIAL]

[AES/EBU]

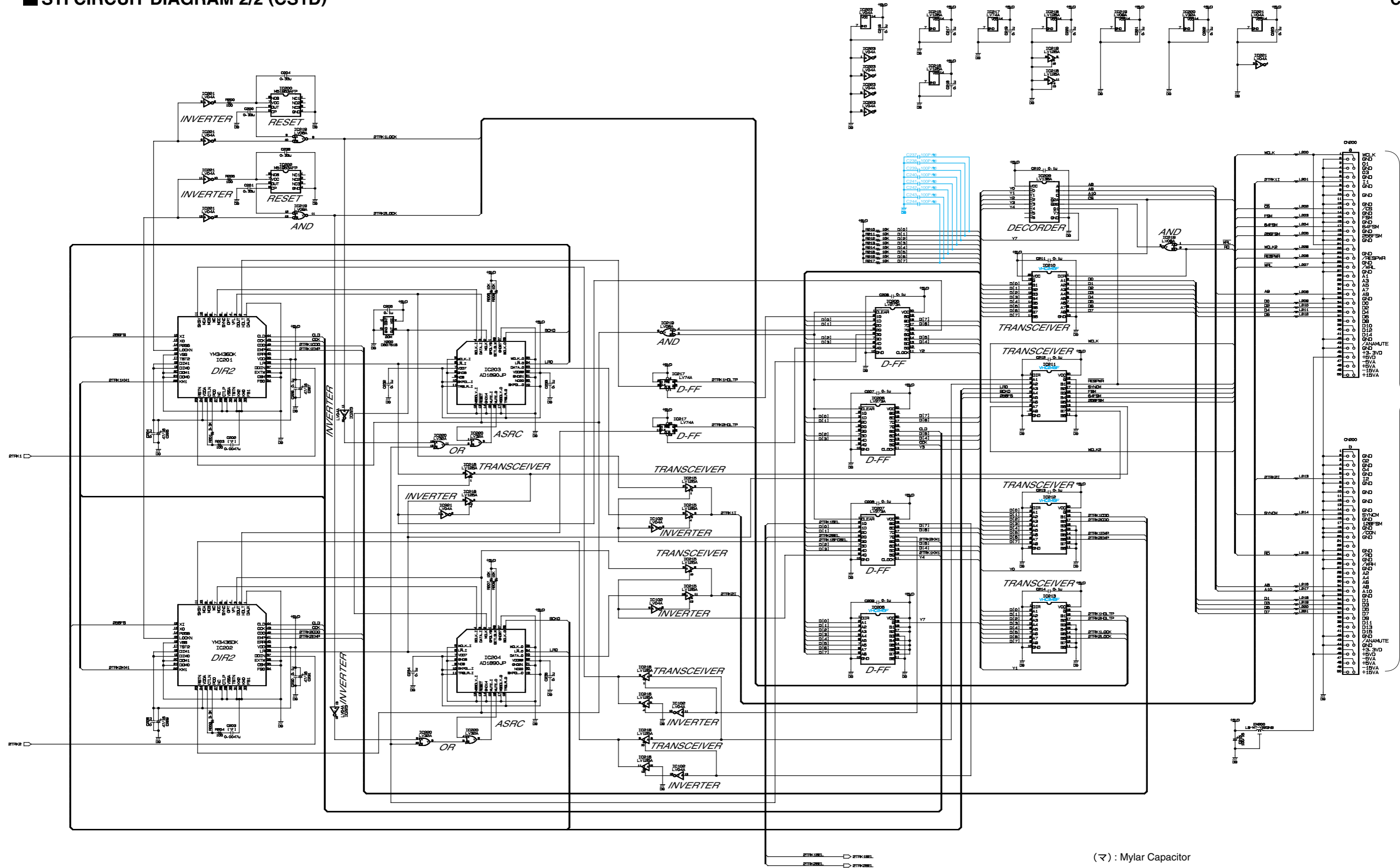
[2]

[COAXIAL]



STI CIRCUIT DIAGRAM 2/2 (CS1D)

CS1D

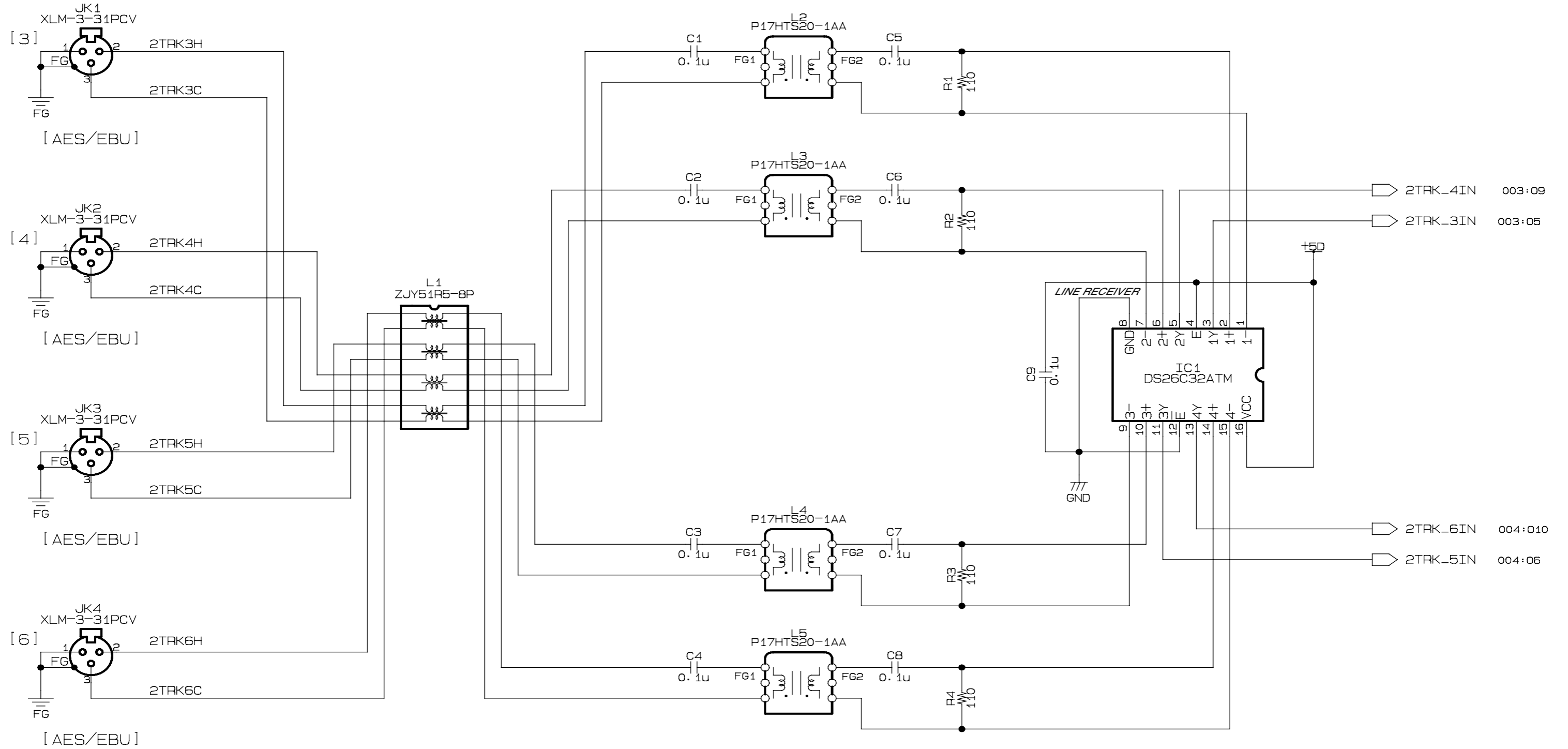


(M) : Mylar Capacitor

■ AEI CIRCUIT DIAGRAM 002 (CS1D)

[2-TRACK IN DIGITAL]

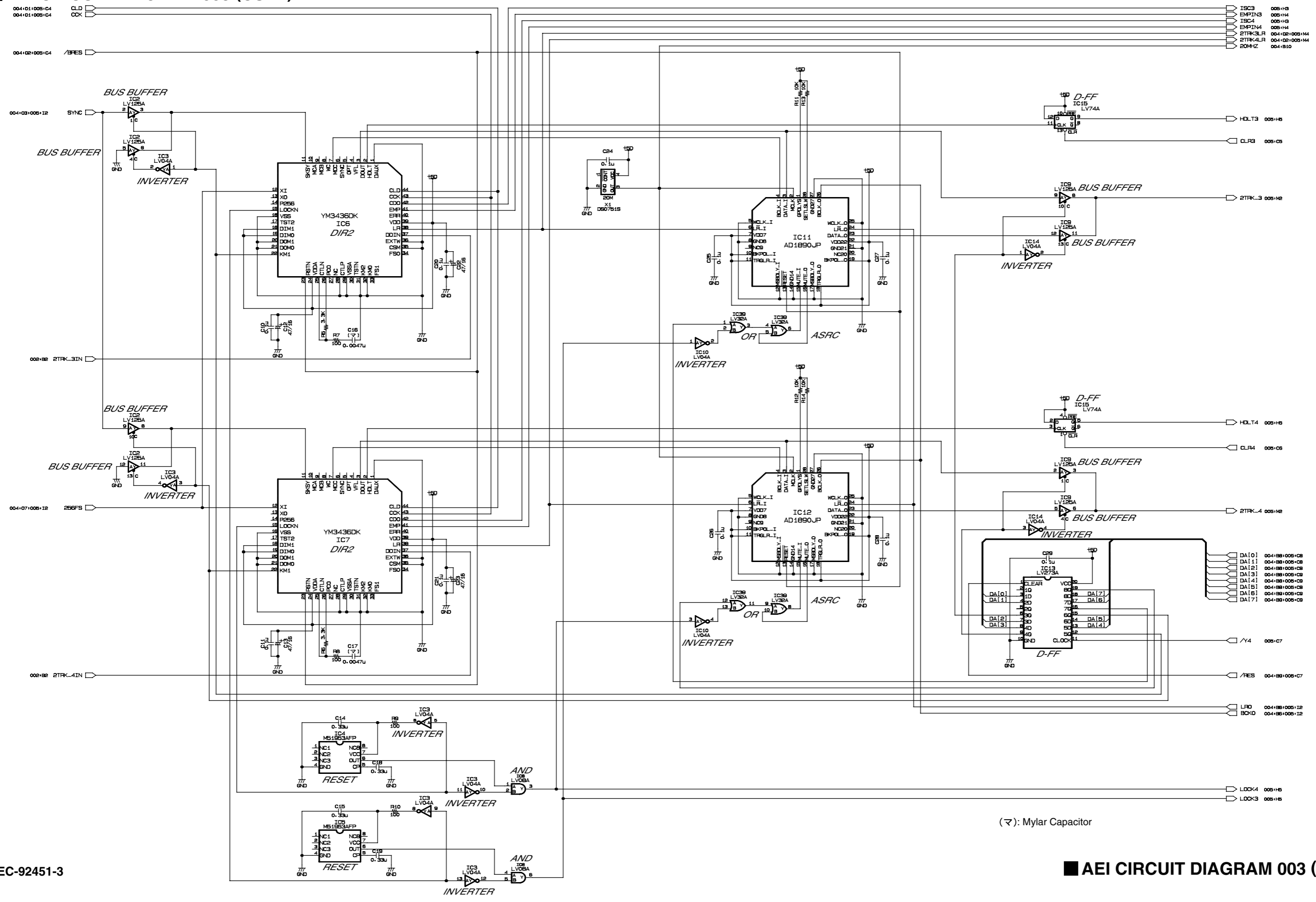
CS1D



AEI CIRCUIT DIAGRAM 003 (CS1D)

CS1D

1
2
3
4
5
6
7
8
9
10
11
12



- ISCS3 005+H3
- EMPIN3 005+H4
- ISCS4 005+H5
- EMPIN4 005+H4
- 2TRK-CLR 004+02+005+H4
- 2TRK-CLR 004+02+005+H4
- 20MHz 004+H10

- HDLT3 005+H5
- CLR3 005+05

- 2TRK_3 005+H2

- HDLT4 005+H5
- CLR4 005+05

- 2TRK_4 005+H2

- DA[0] 004+H8+005+H8
- DA[1] 004+H8+005+H8
- DA[2] 004+H8+005+H8
- DA[3] 004+H8+005+H8
- DA[4] 004+H8+005+H8
- DA[5] 004+H8+005+H8
- DA[6] 004+H8+005+H8
- DA[7] 004+H8+005+H8
- DA[8] 004+H8+005+H8
- DA[9] 004+H8+005+H8
- DA[10] 004+H8+005+H8
- DA[11] 004+H8+005+H8
- DA[12] 004+H8+005+H8
- DA[13] 004+H8+005+H8
- DA[14] 004+H8+005+H8
- DA[15] 004+H8+005+H8
- DA[16] 004+H8+005+H8
- DA[17] 004+H8+005+H8

- /Y4 005+C7
- /RES 004+H8+005+H7

- LFR 004+H8+005+H2
- BCKO 004+H8+005+H2

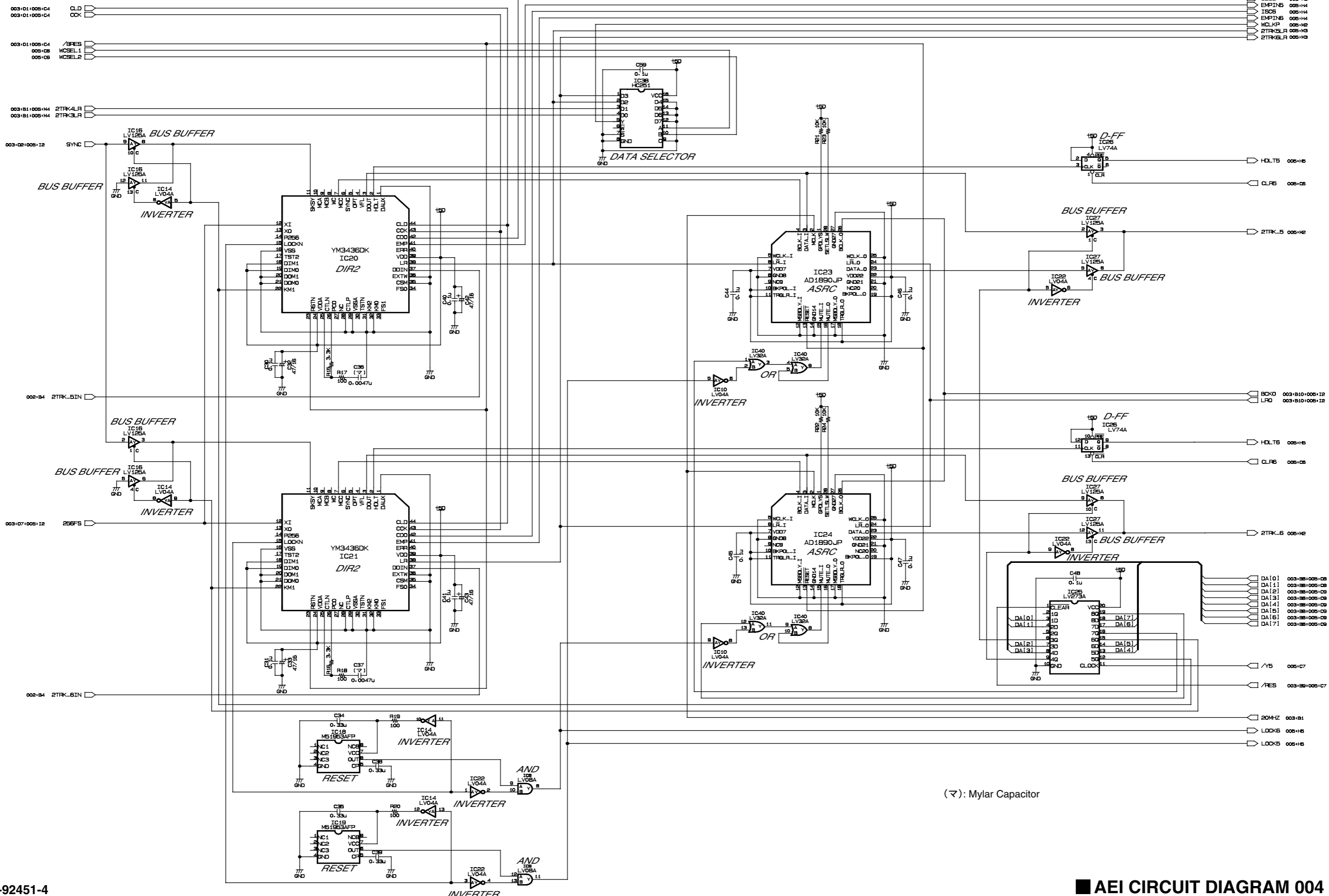
- LOCK4 005+H5
- LOCK3 005+H5

(M): Mylar Capacitor

AEI CIRCUIT DIAGRAM 003 (CS1D)

AEI CIRCUIT DIAGRAM 004 (CS1D)

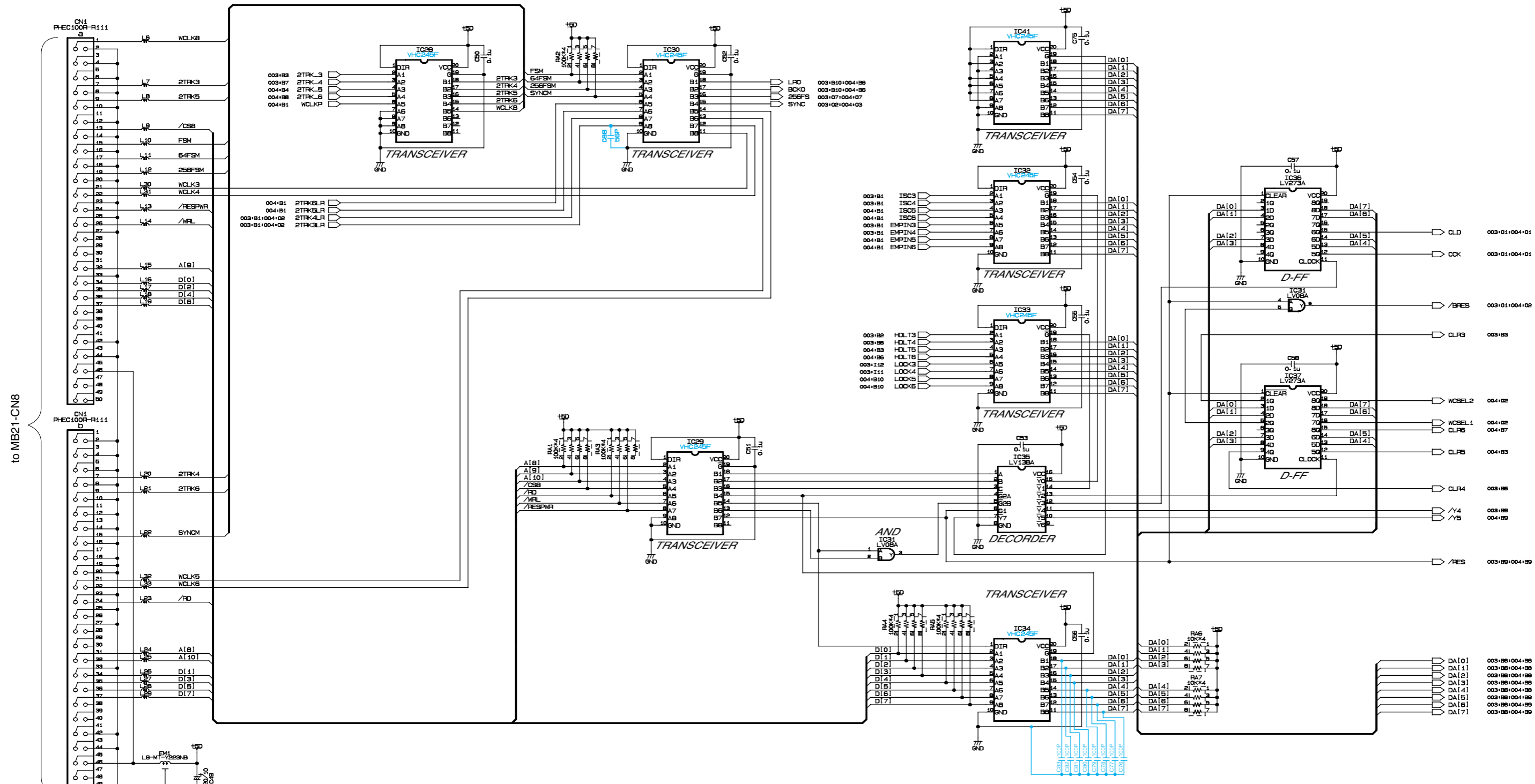
CS1D



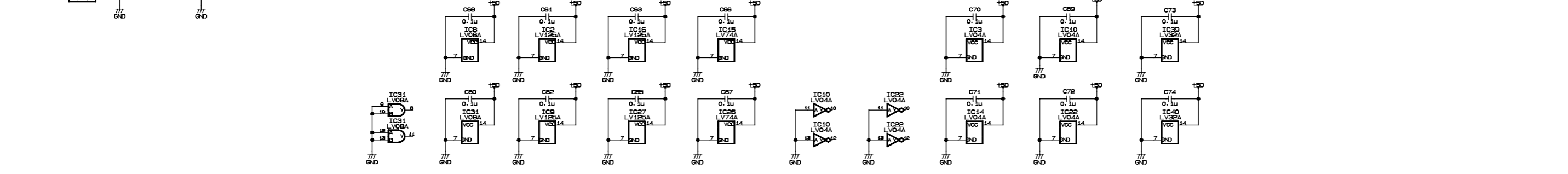
(マ): Mylar Capacitor

AEI CIRCUIT DIAGRAM 005 (CS1D)

CS1D

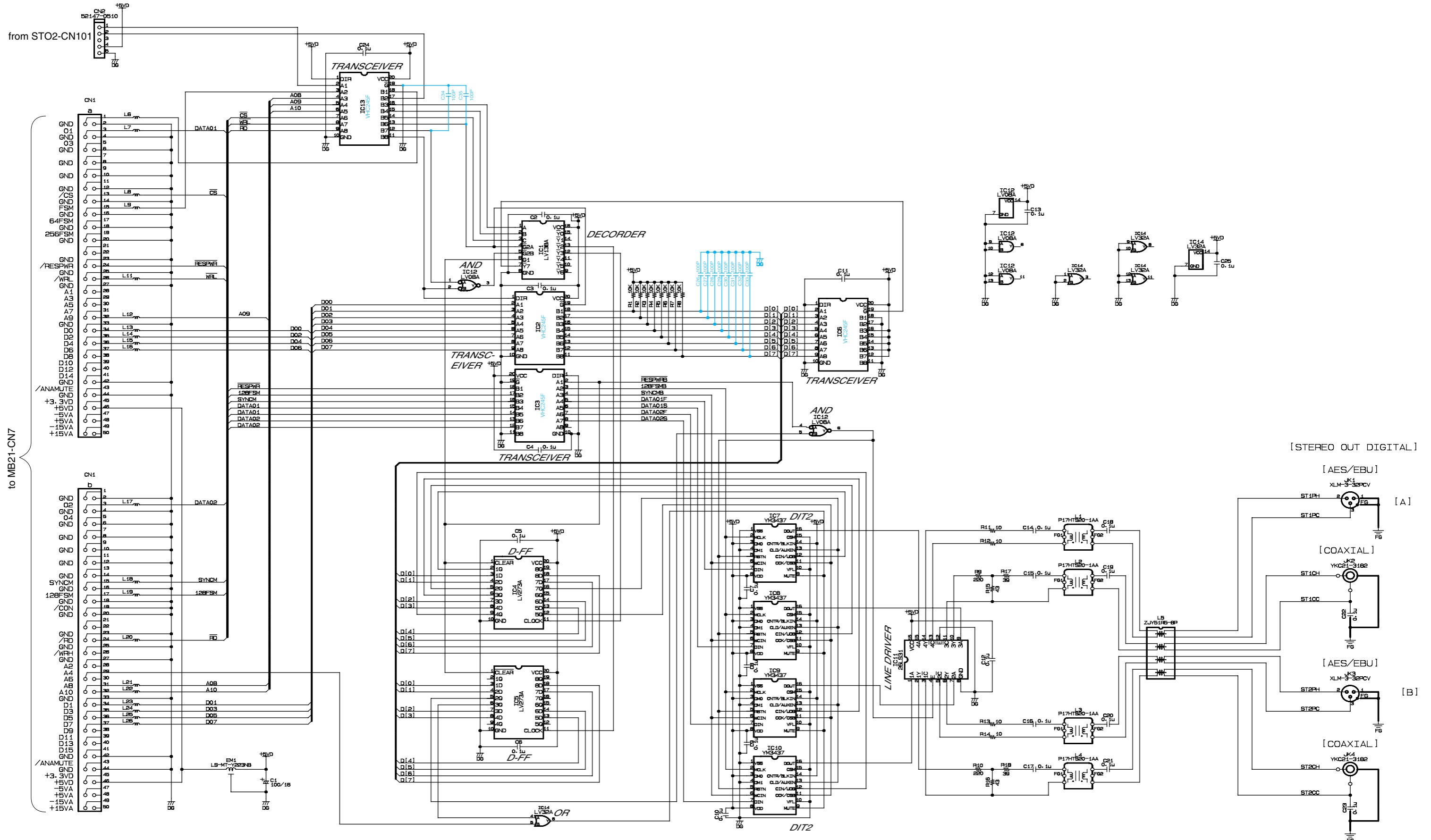


to MB21-CN8



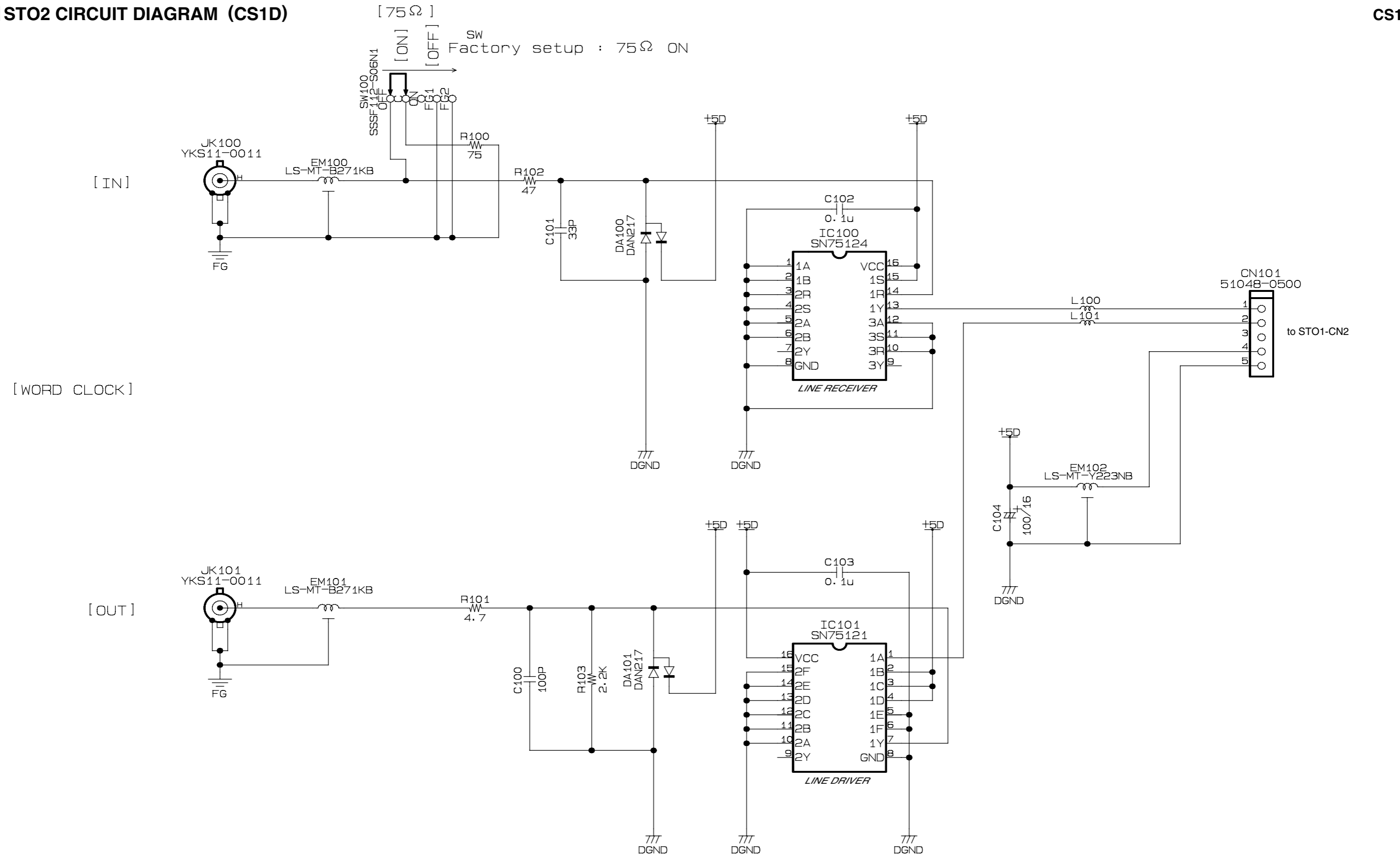
STO1 CIRCUIT DIAGRAM (CS1D)

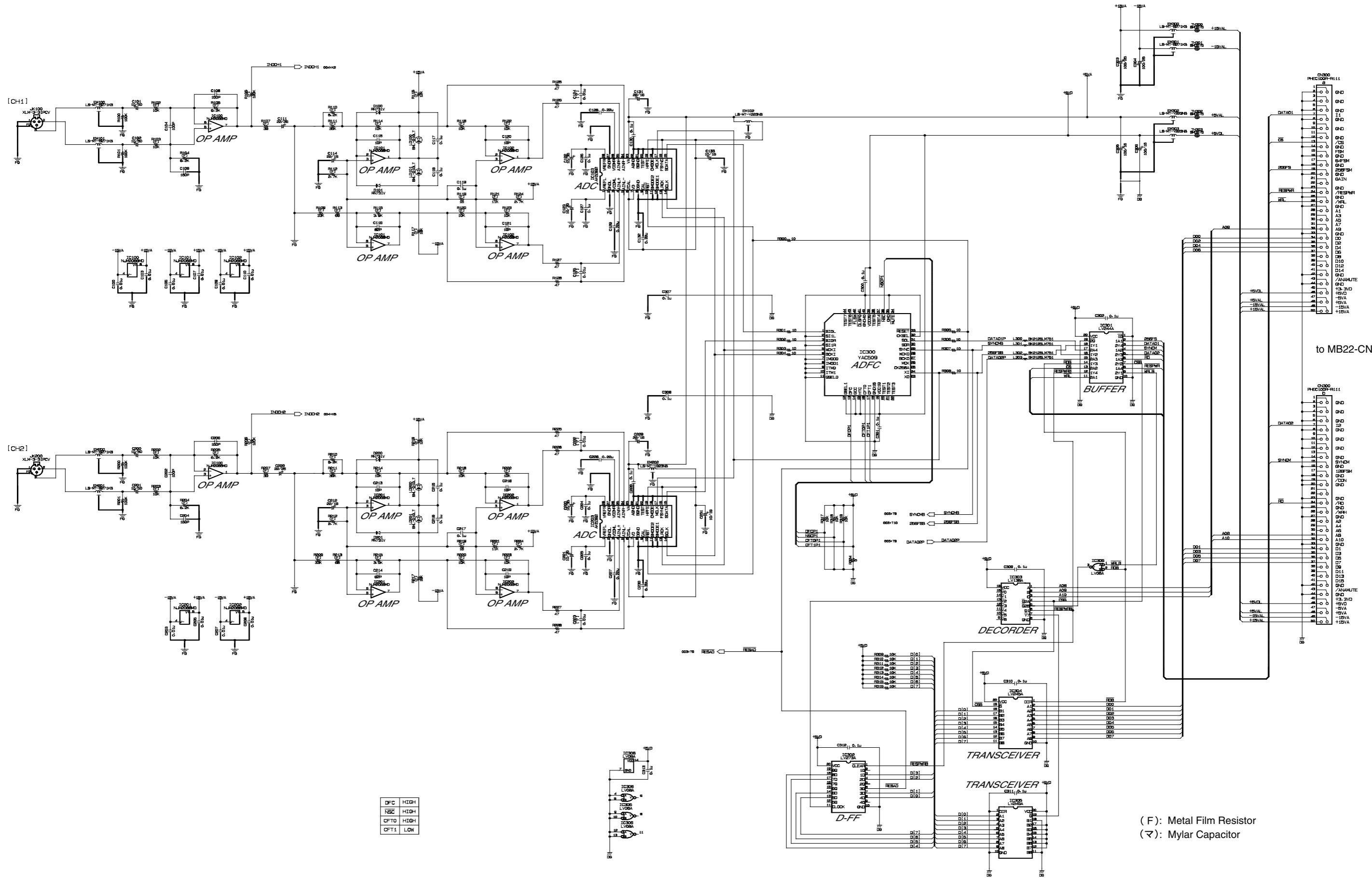
CS1D



STO2 CIRCUIT DIAGRAM (CS1D)

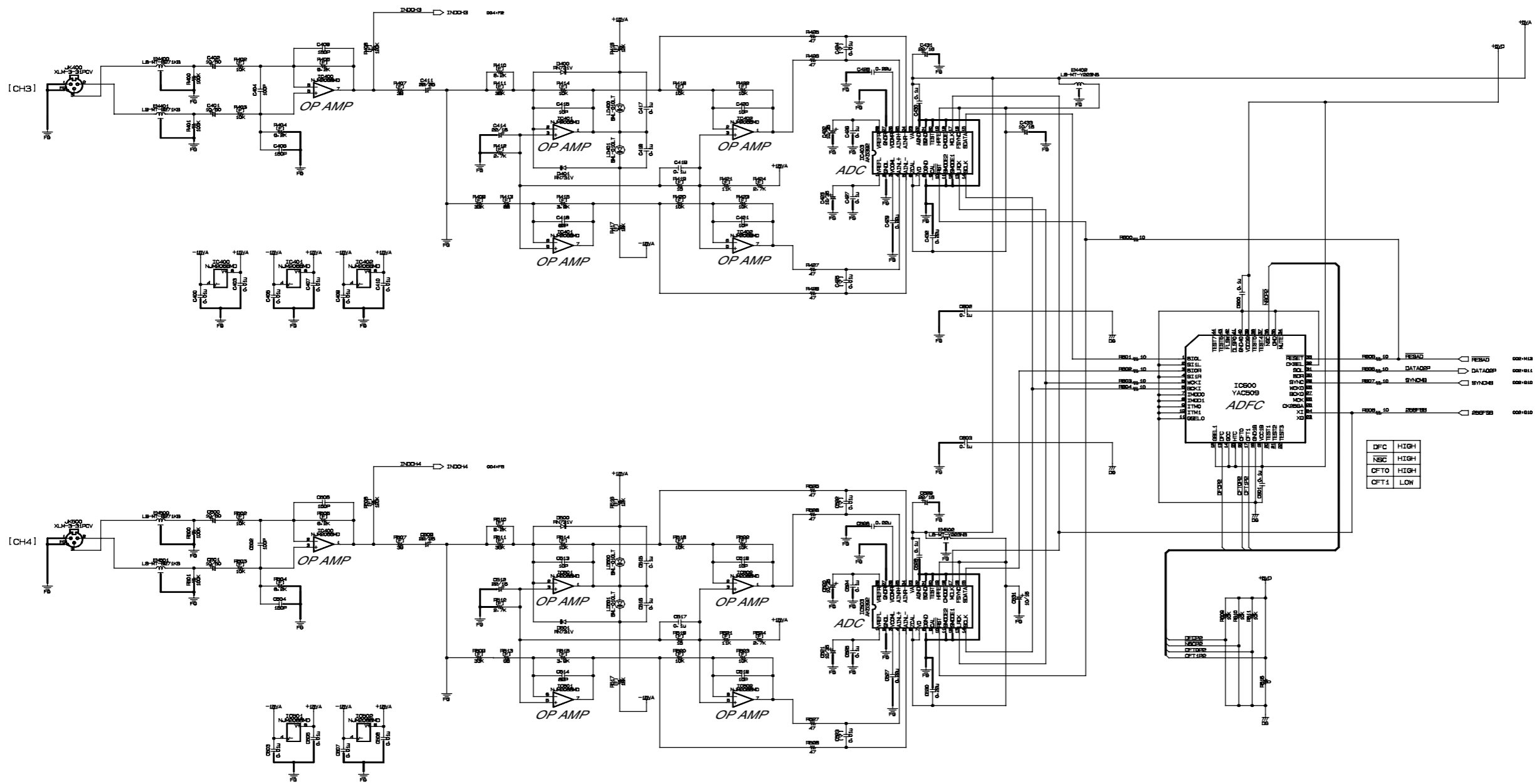
CS1D





AD2 CIRCUIT DIAGRAM 003 (CS1D)

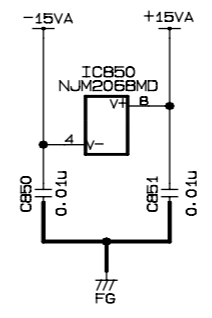
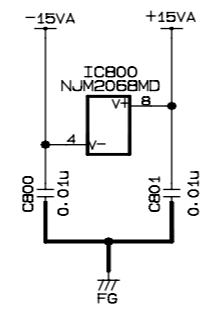
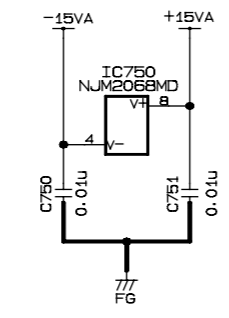
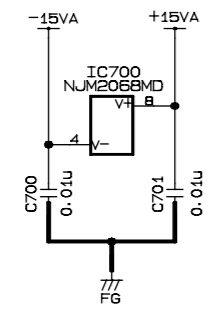
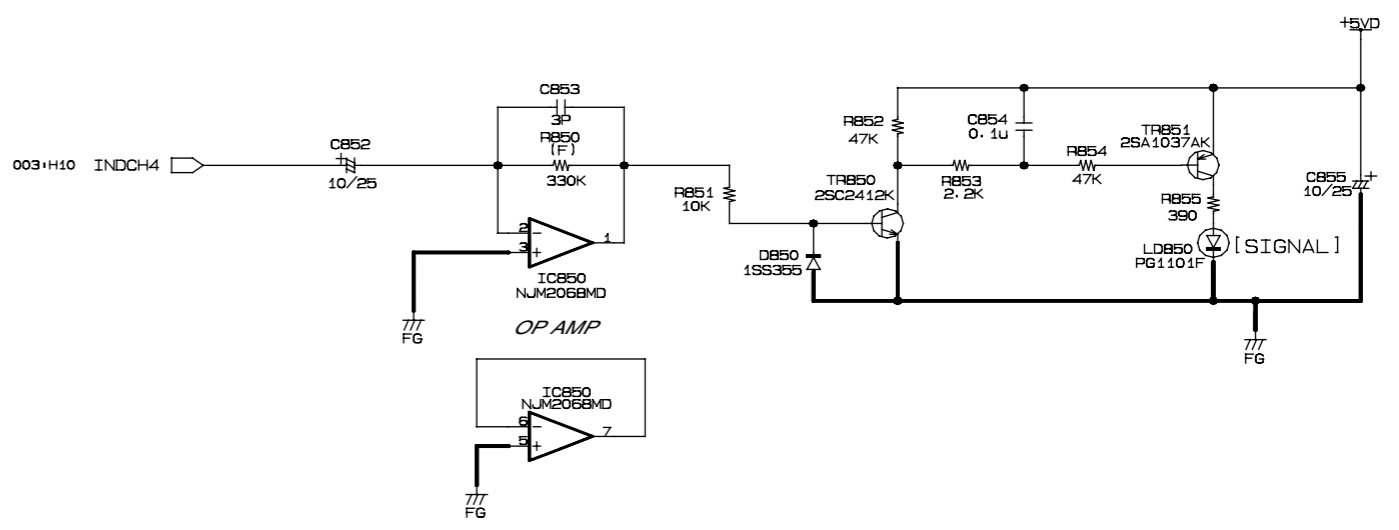
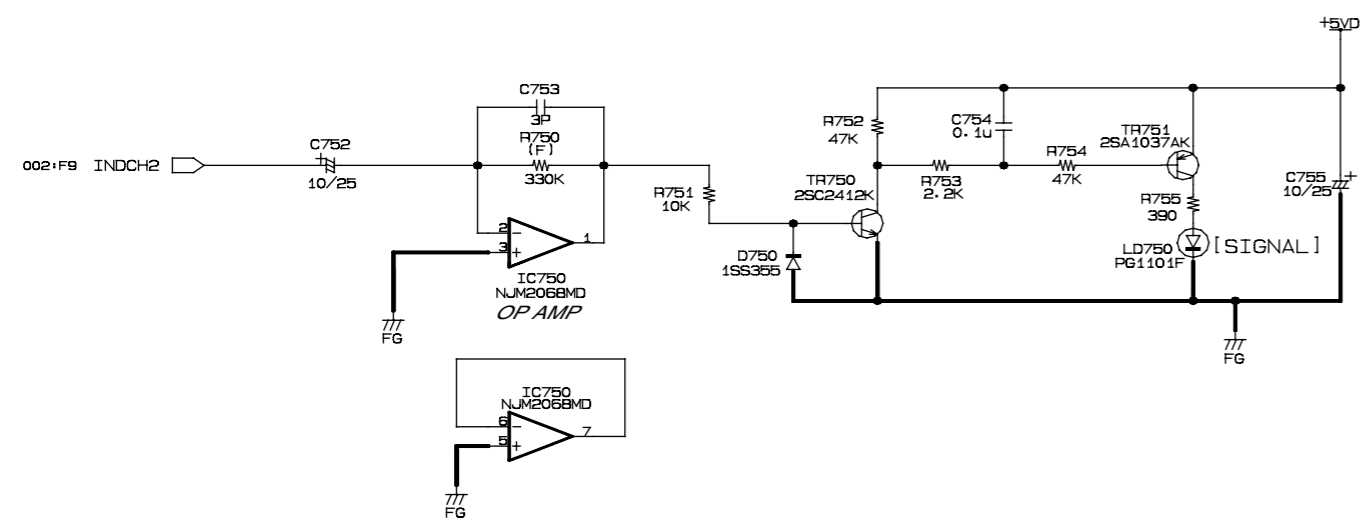
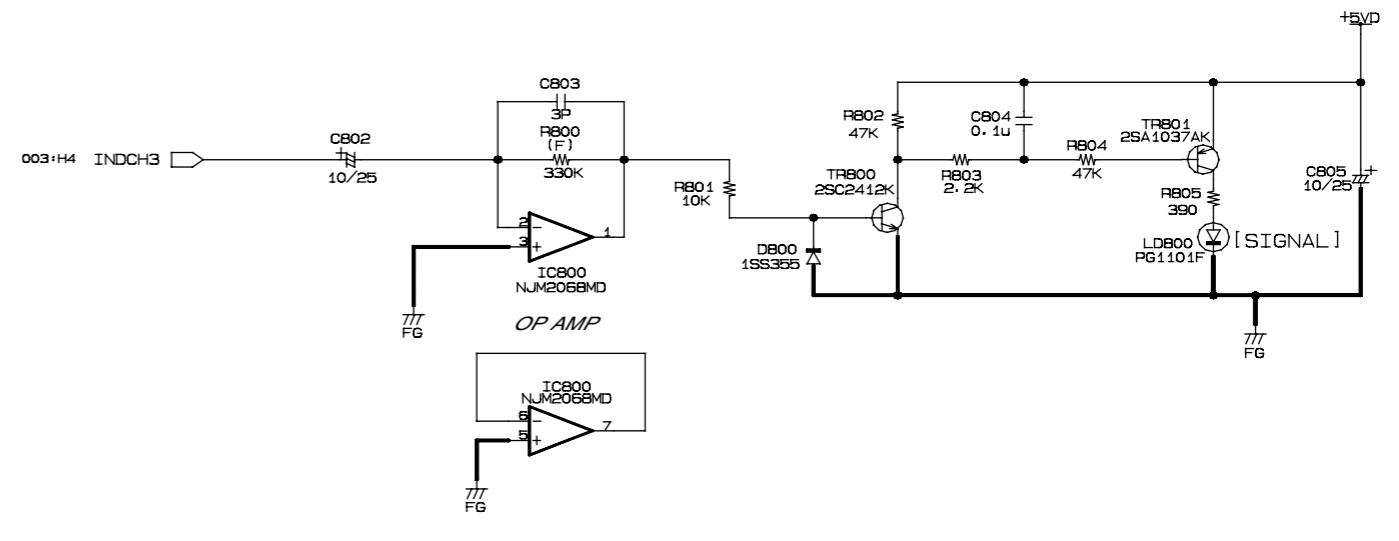
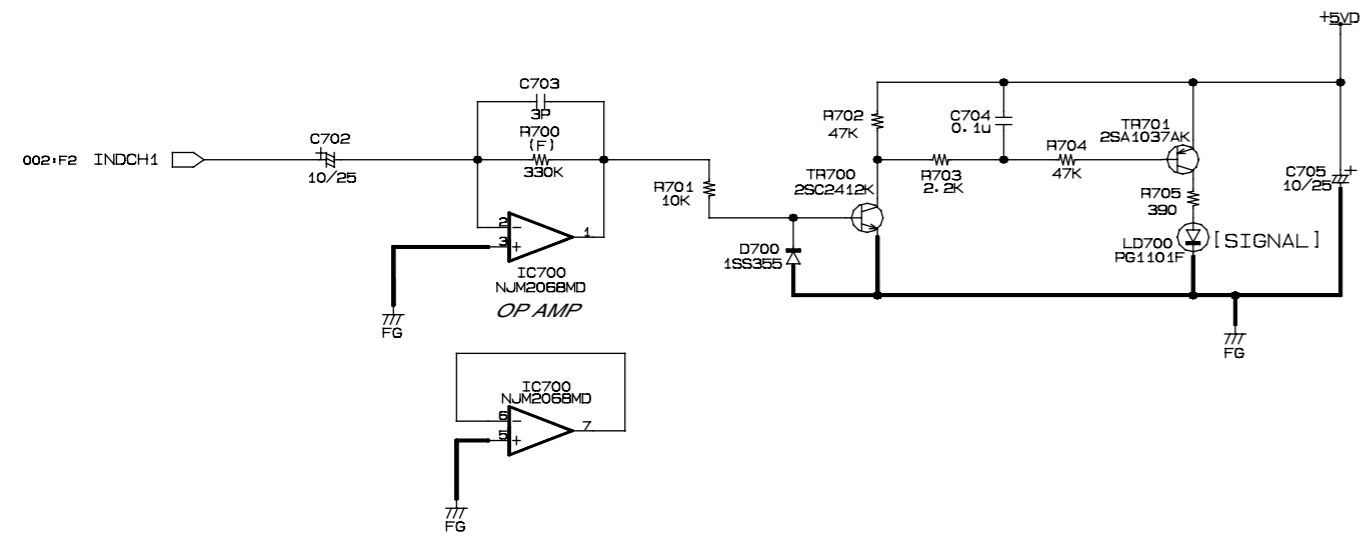
CS1D



(F): Metal Film Resistor
(M): Mylar Capacitor

AD2 CIRCUIT DIAGRAM 004 (CS1D)

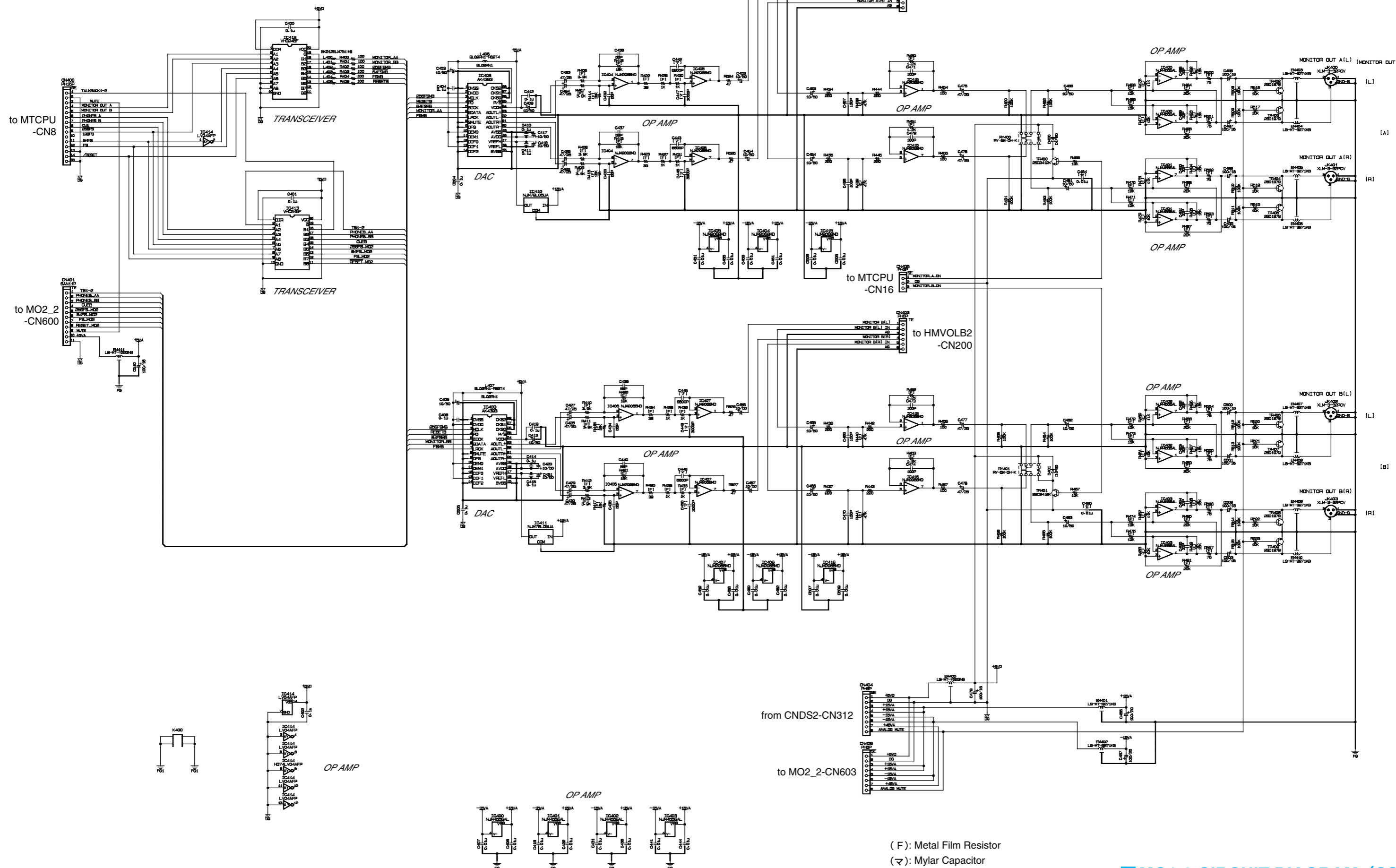
CS1D

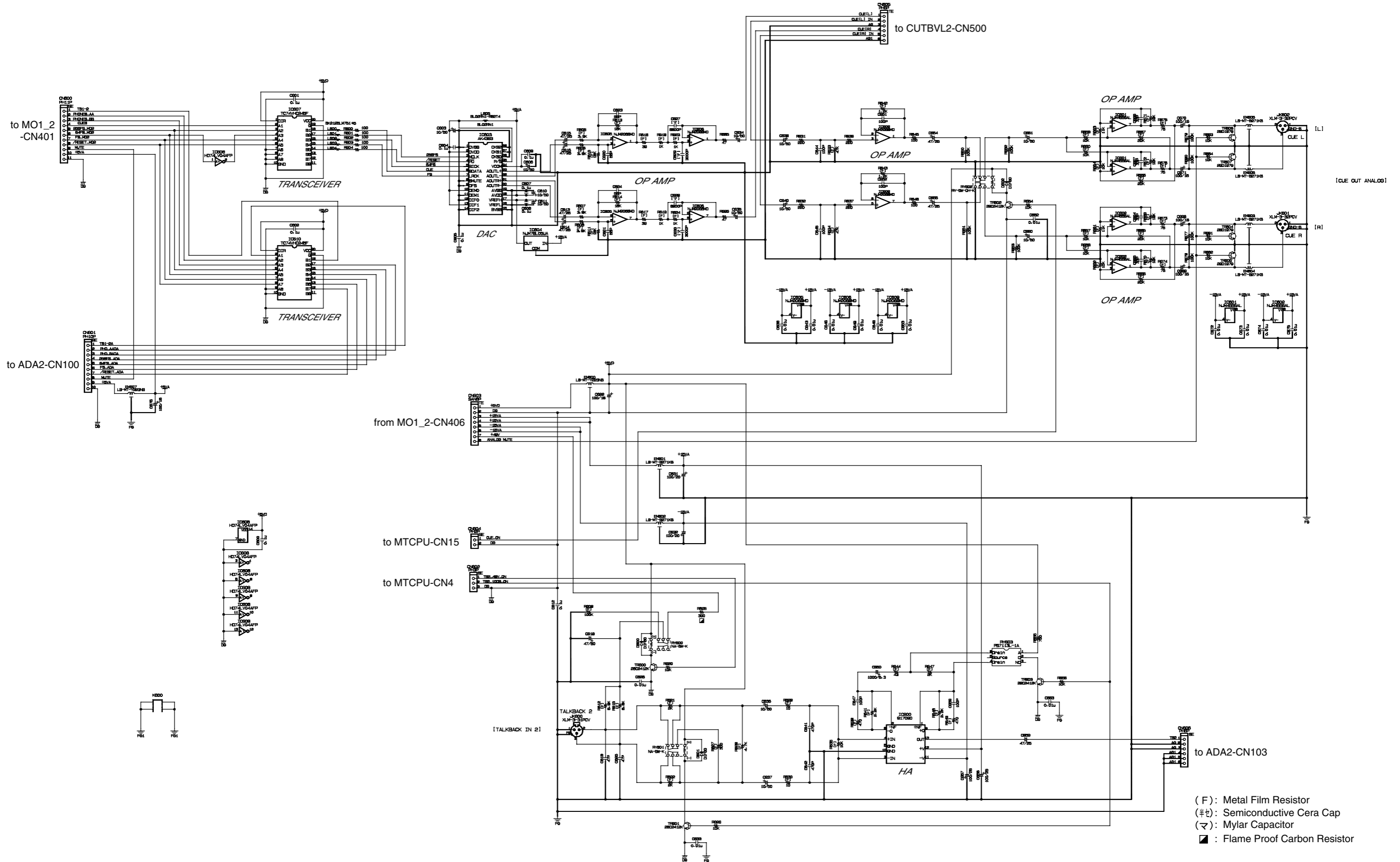


(F): Metal Film Resistor

MO1-2 CIRCUIT DIAGRAM (CS1D)

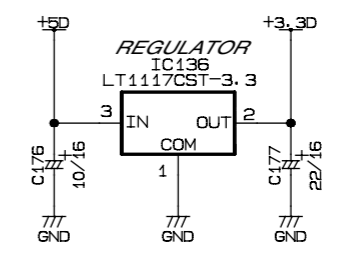
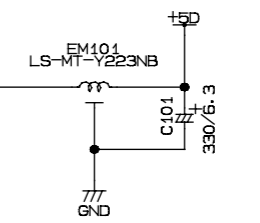
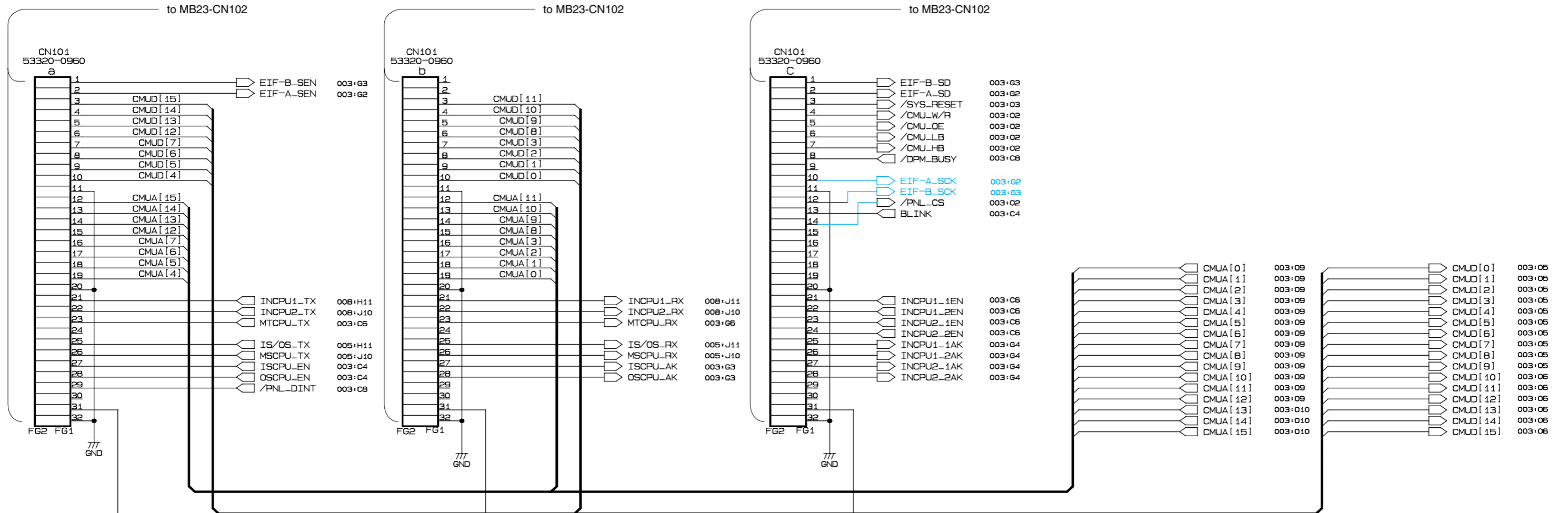
CS1D

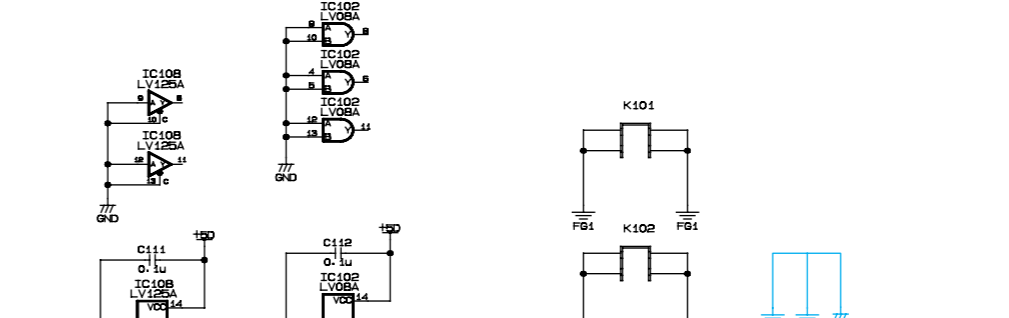
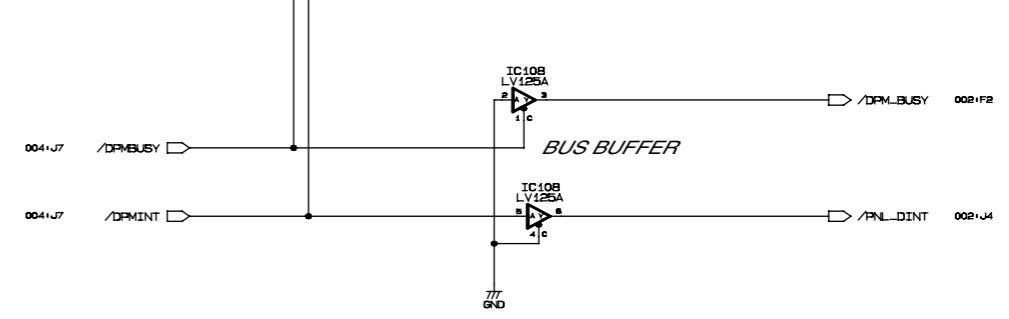
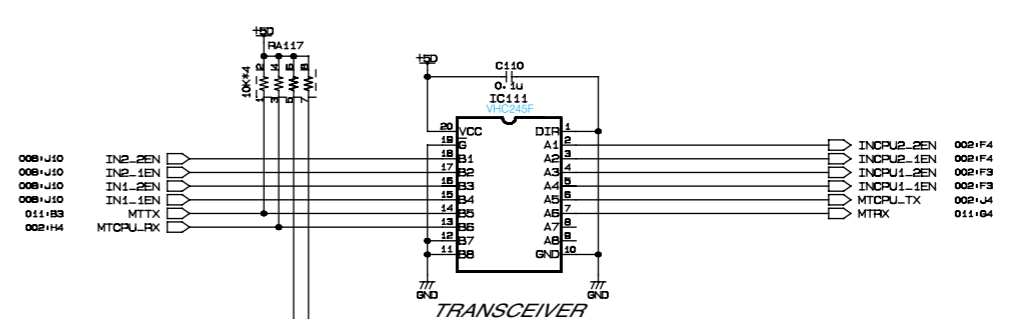
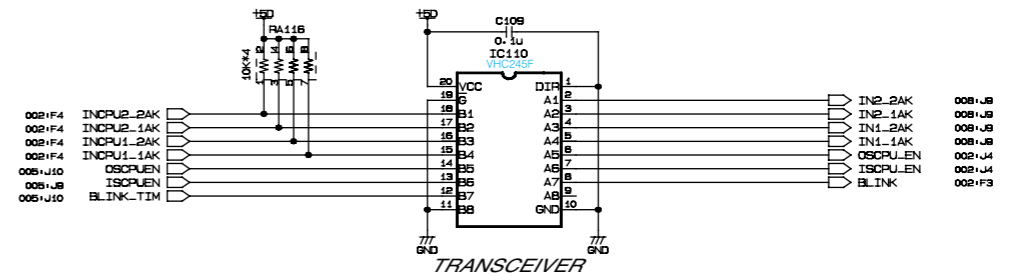
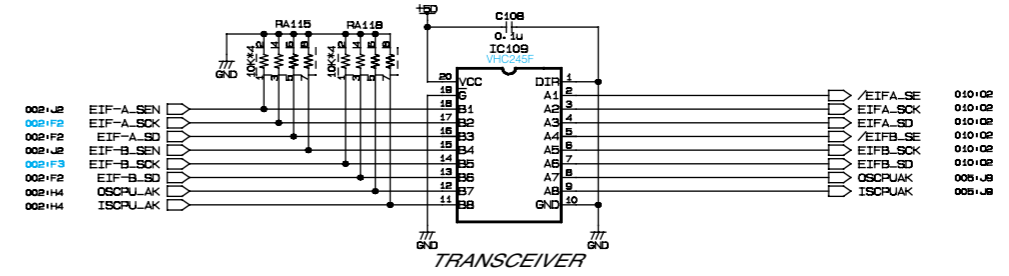
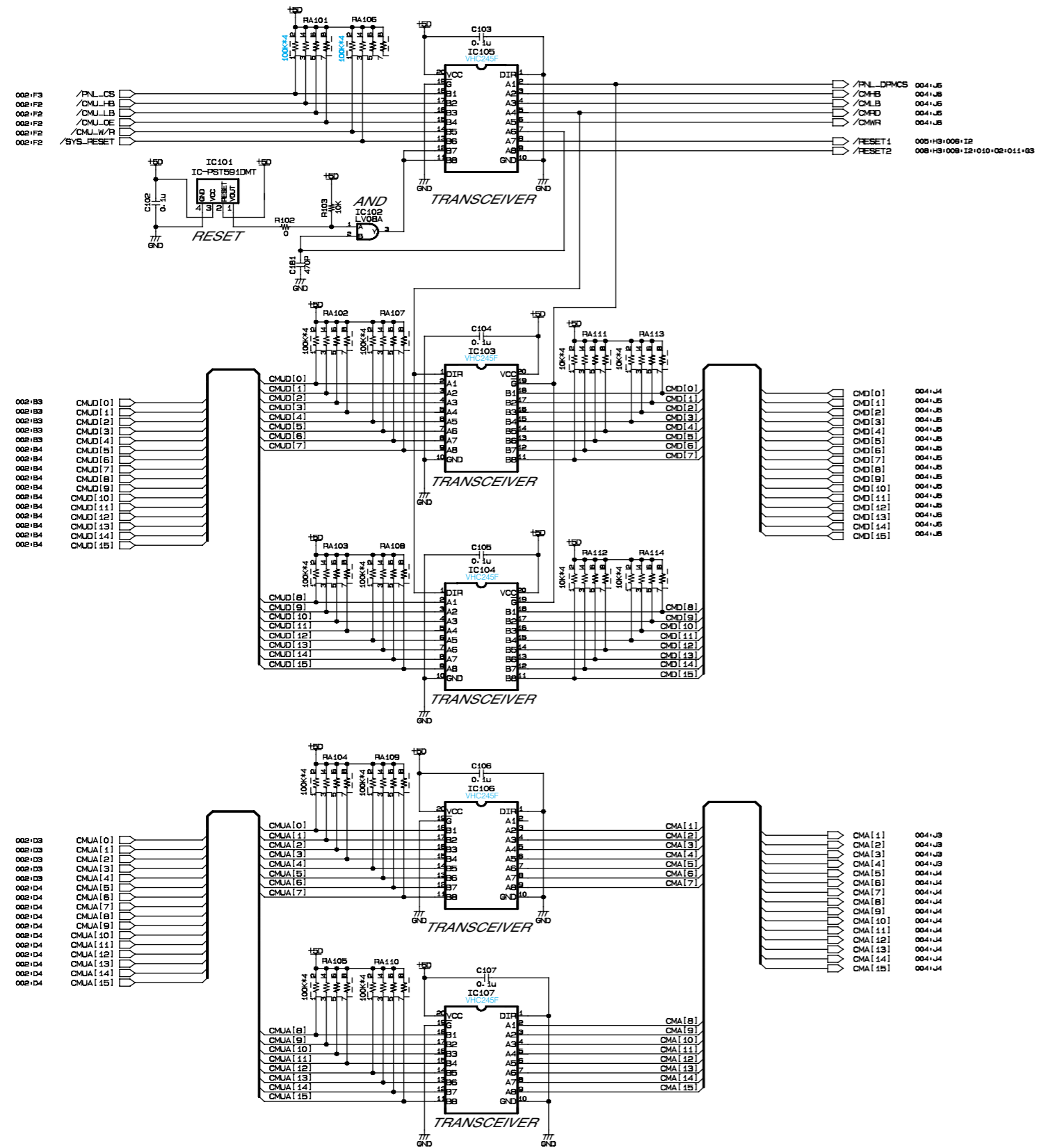




■ PNC1 CIRCUIT DIAGRAM 002 (CS1D)

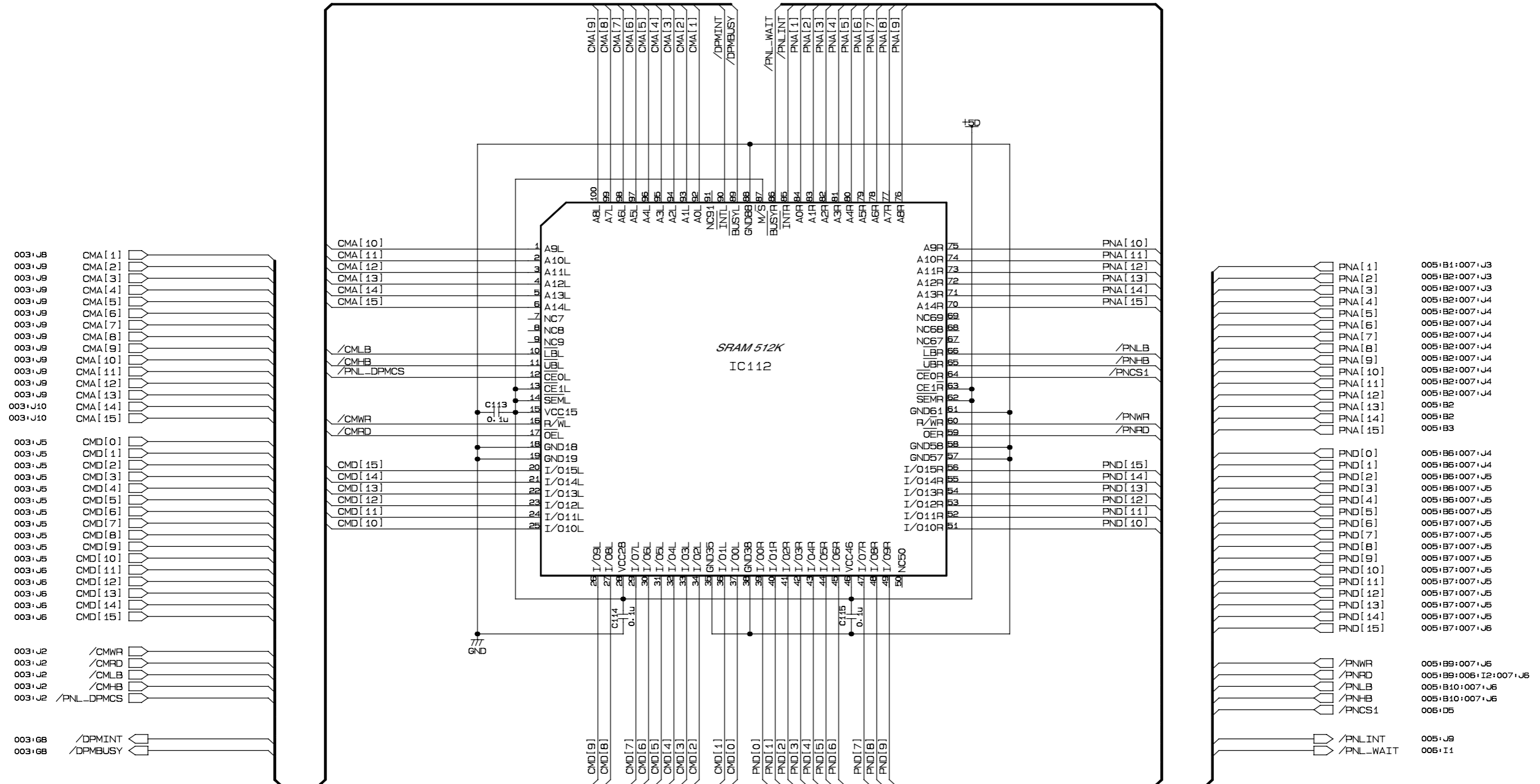
CS1D



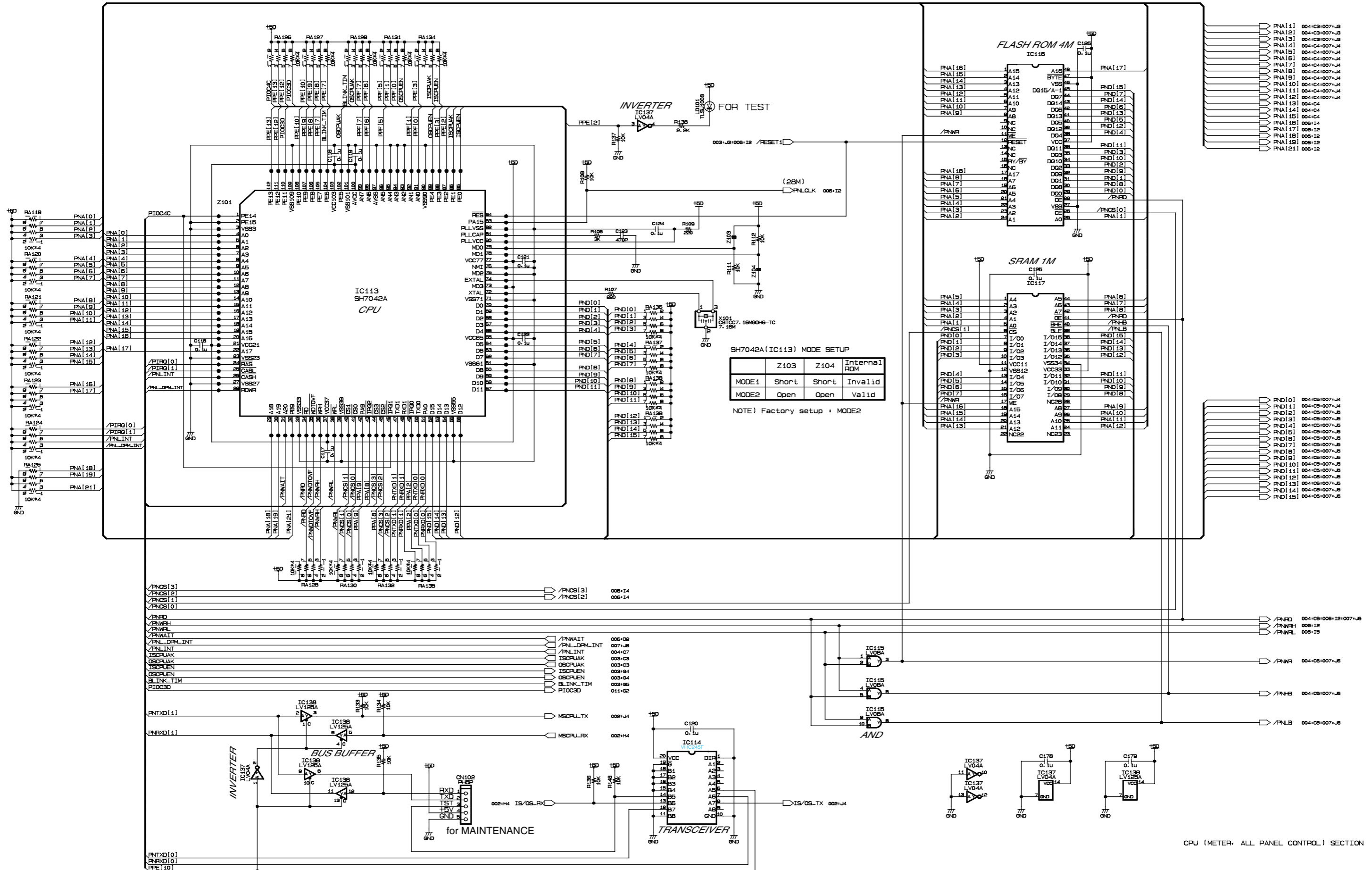


(C): Ceramic Capacitor

BUFFER SECTION



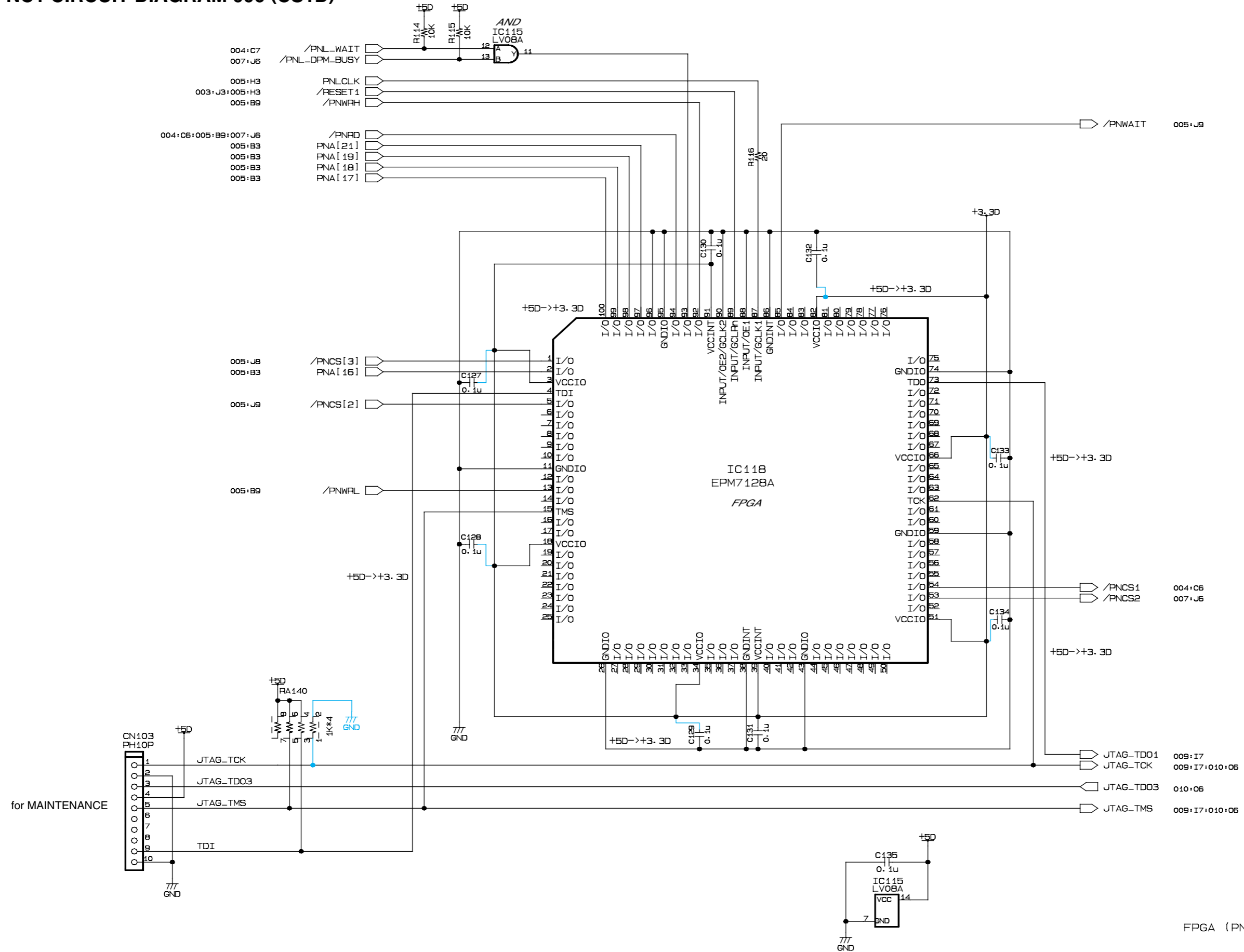
DUAL POPT MEMORY (CM BUS <-> PN BUS) SECTION



CPU (METER, ALL PANEL CONTROL) SECTION

PNC1 CIRCUIT DIAGRAM 006 (CS1D)

CS1D

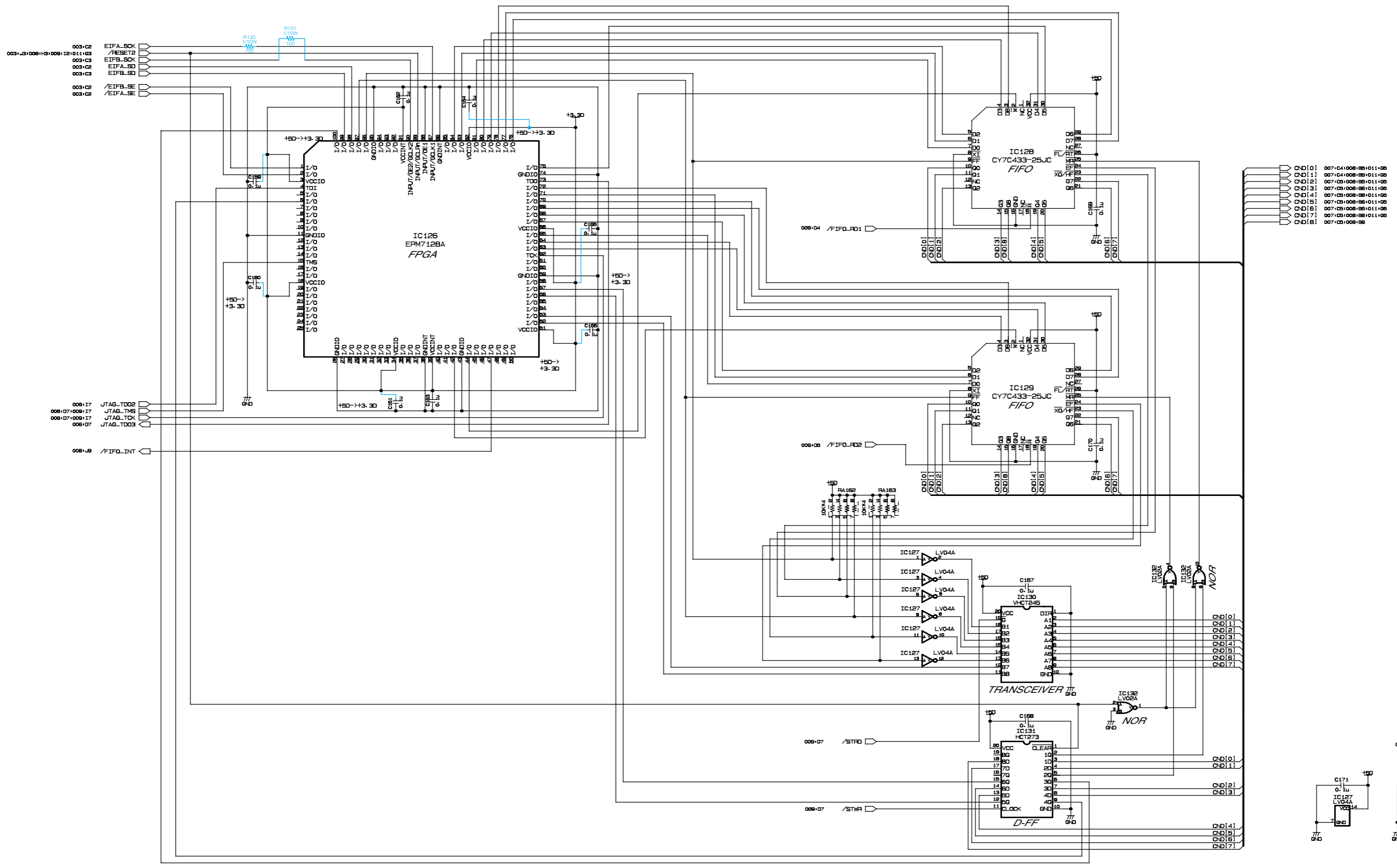


FPGA (PN BUS MEMORY CONTROL) SECTION

PNC1 CIRCUIT DIAGRAM 006 (CS1D)

PNC1 CIRCUIT DIAGRAM 010 (CS1D)

CS1D



QD10	007*04*008*185*011*08
QD11	007*04*008*185*011*08
QD12	007*05*008*185*011*08
QD13	007*05*008*185*011*08
QD14	007*05*008*185*011*08
QD15	007*05*008*185*011*08
QD16	007*05*008*185*011*08
QD17	007*05*008*185*011*08
QD18	007*05*008*185

FPGA (SERIAL → PARALLEL). FIFO SECTION

EIF, CCAS CIRCUIT DIAGRAM 002 (CS1D)

CS1D

1

2

3

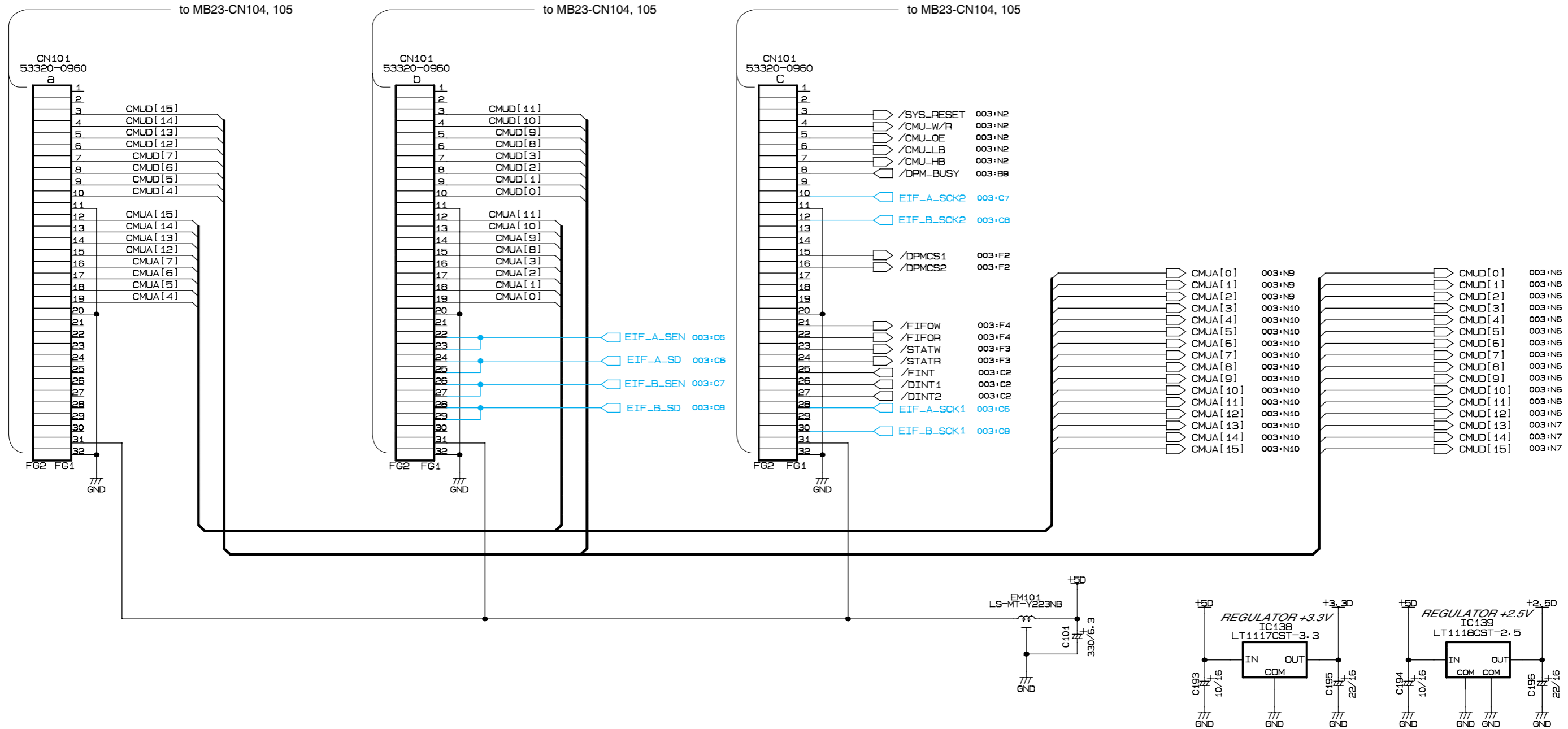
4

5

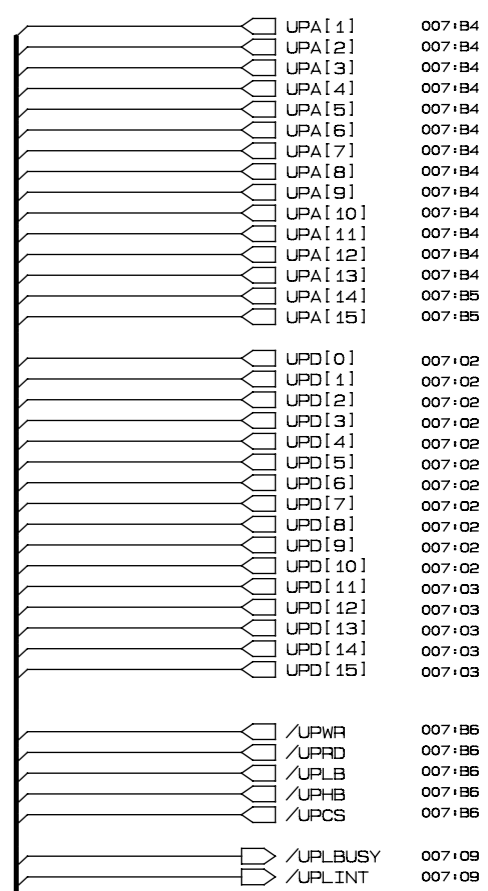
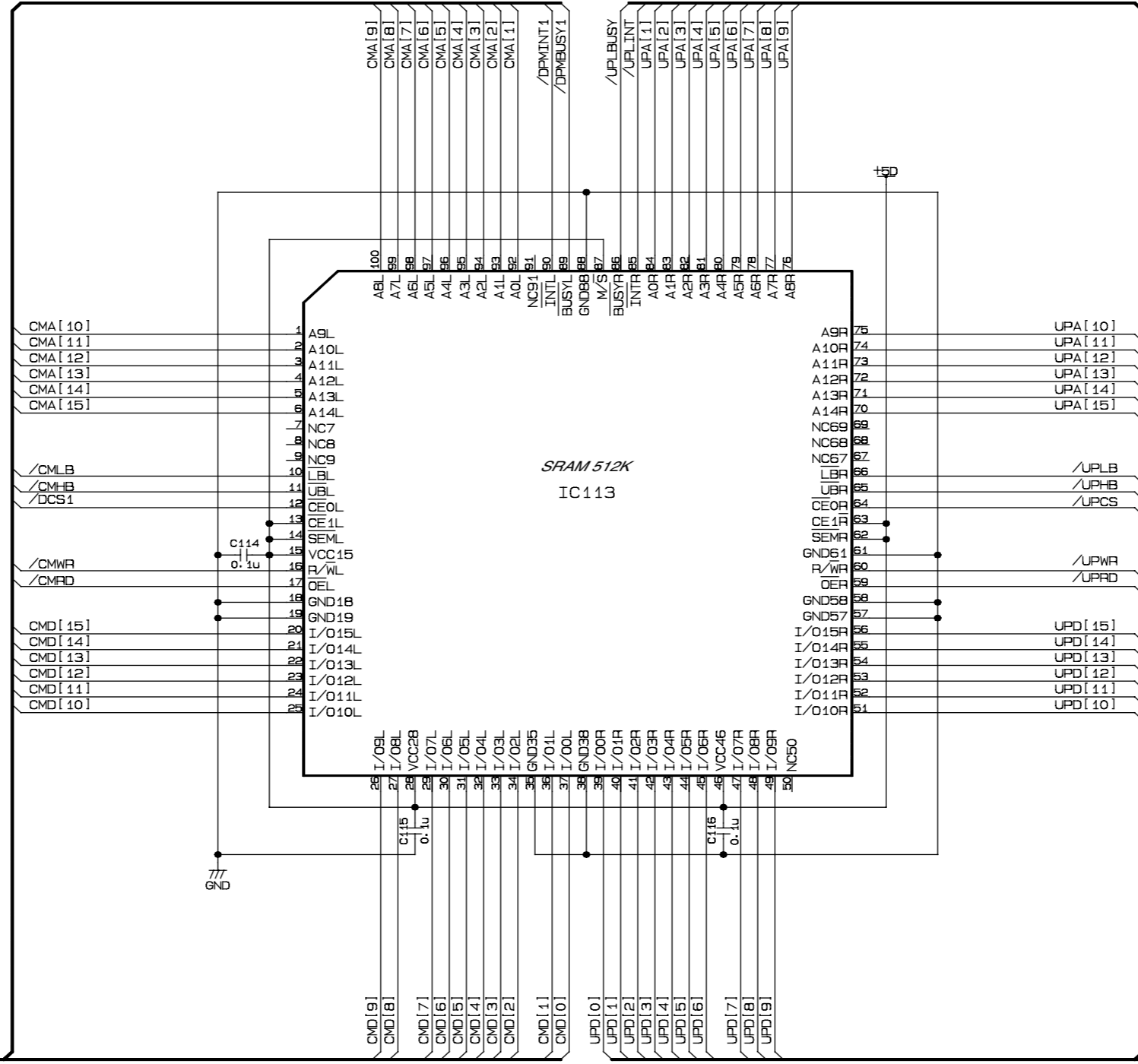
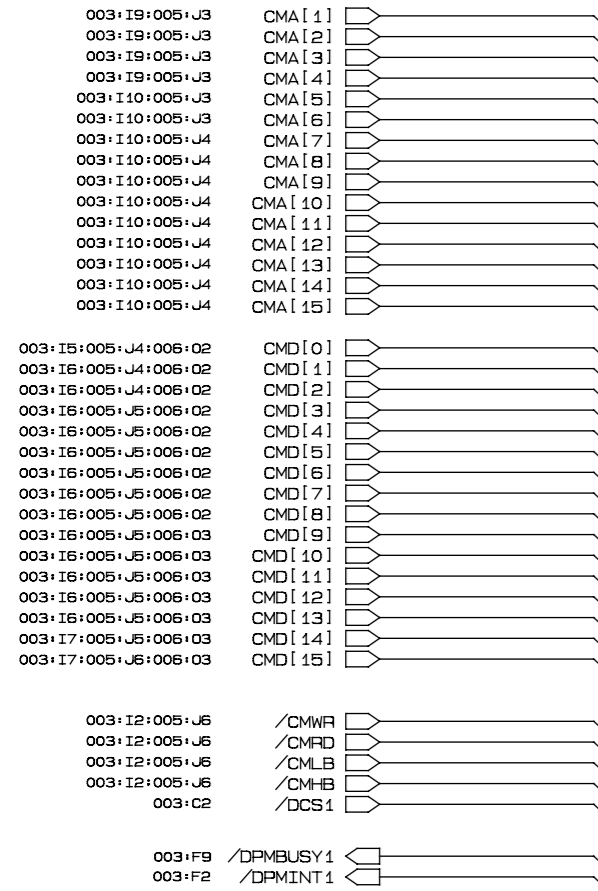
6

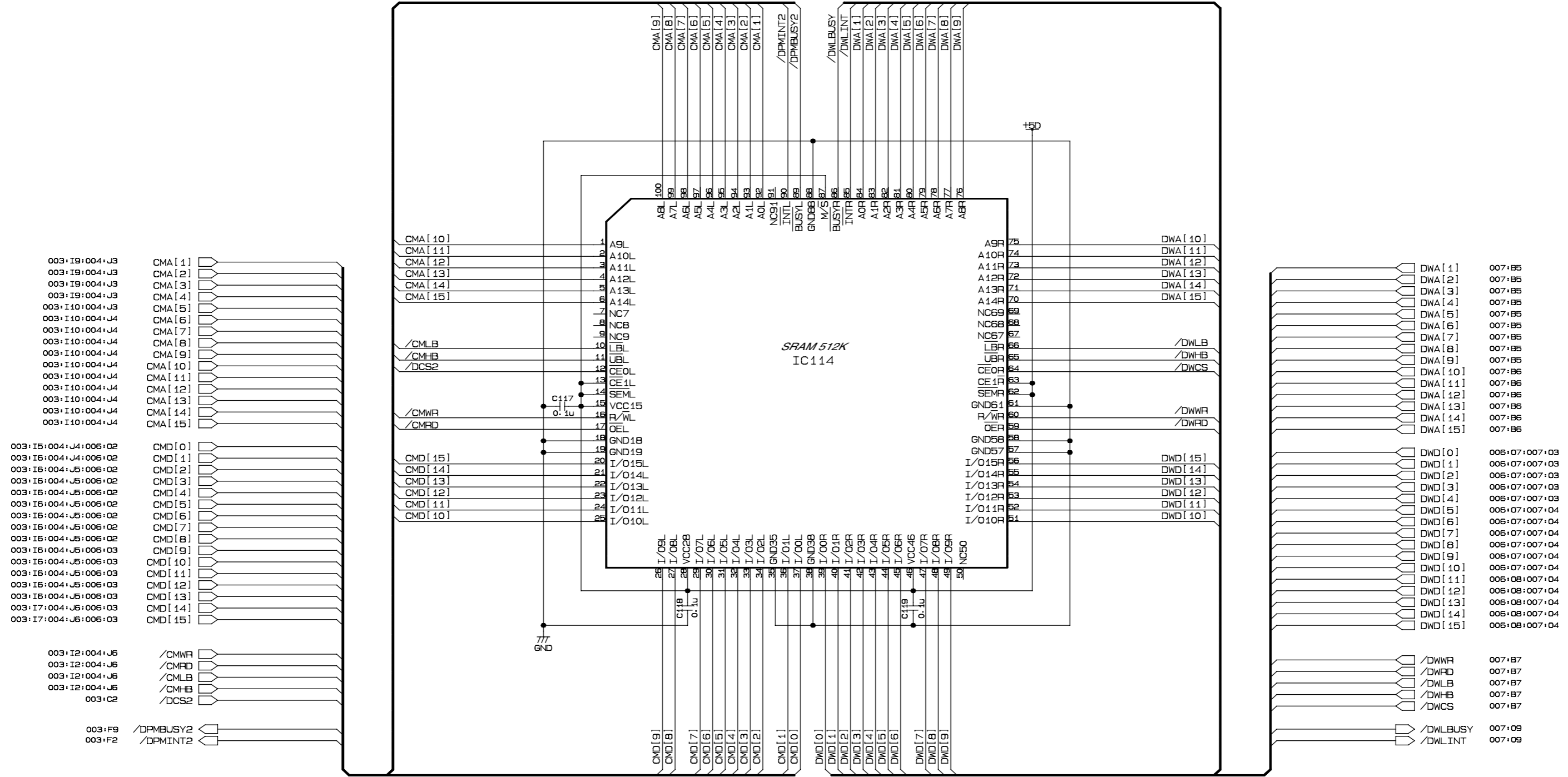
7

8



CONNECTOR SECTION



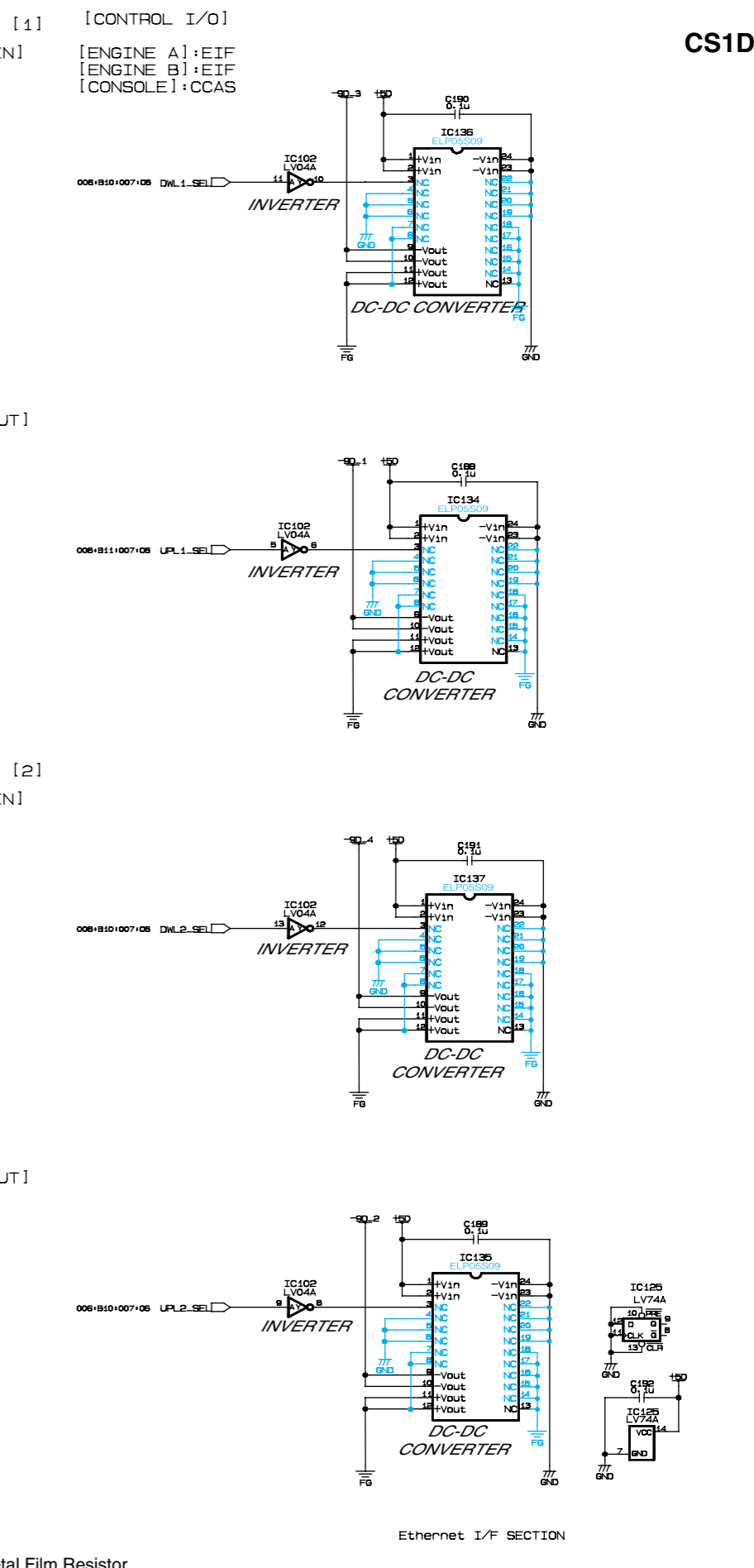
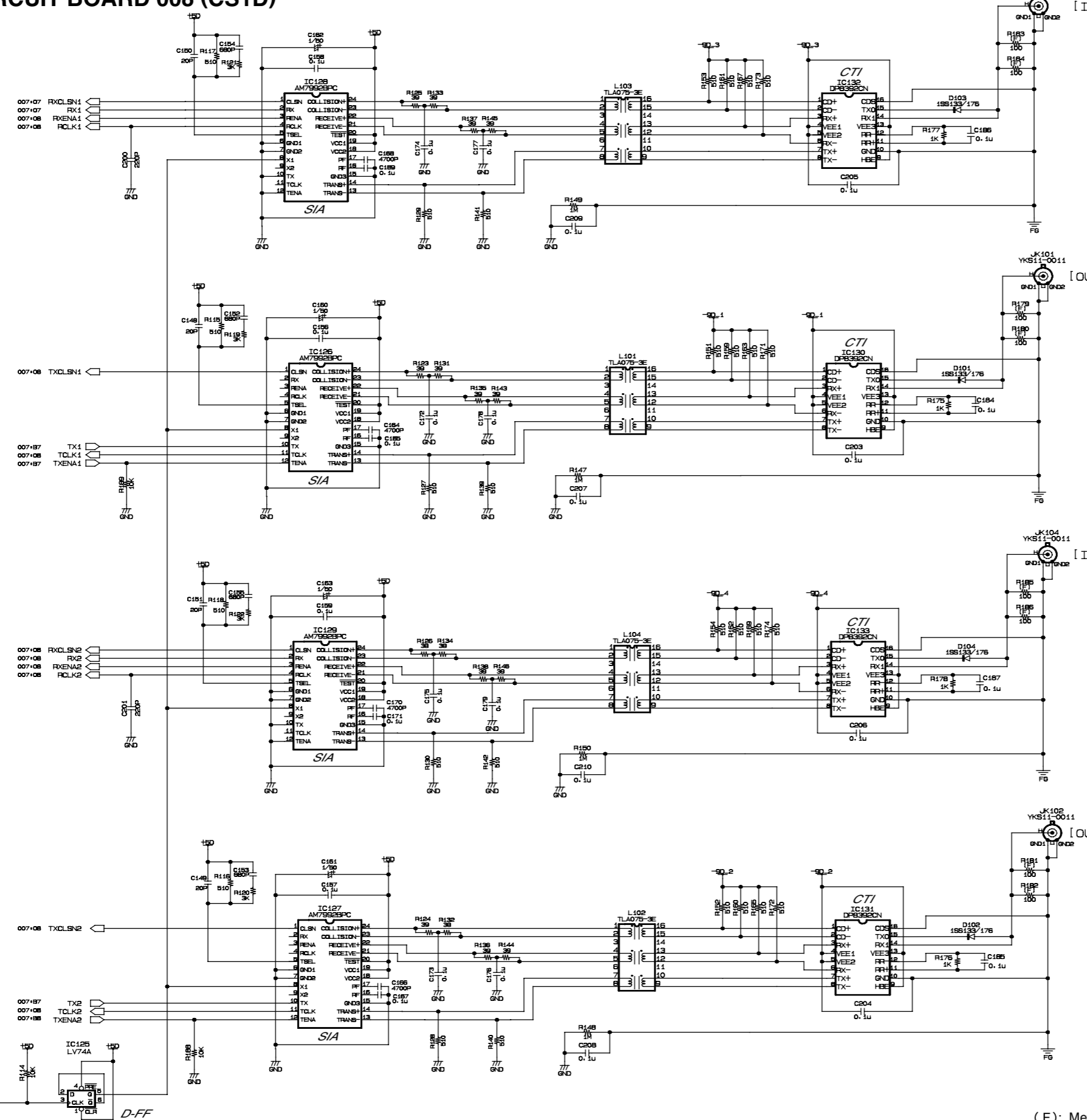


DUAL PORT MEMORY (CM BUS <-> DW BUS) SECTION

EIF, CCAS CIRCUIT BOARD 008 (CS1D)

CS1D

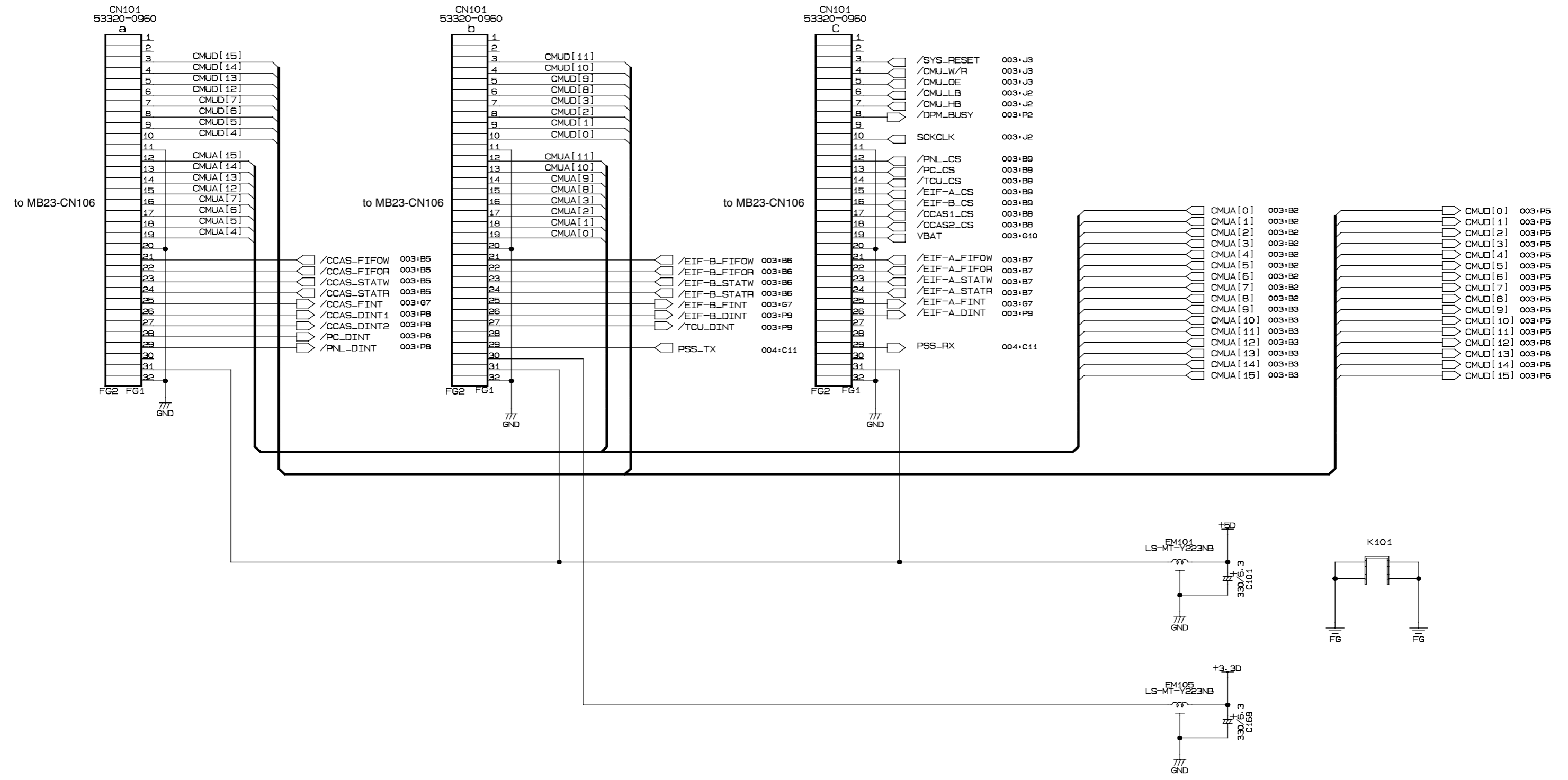
[CONTROL I/O]
[ENGINE A]: EIF
[ENGINE B]: EIF
[CONSOLE]: CCAS



(F): Metal Film Resistor

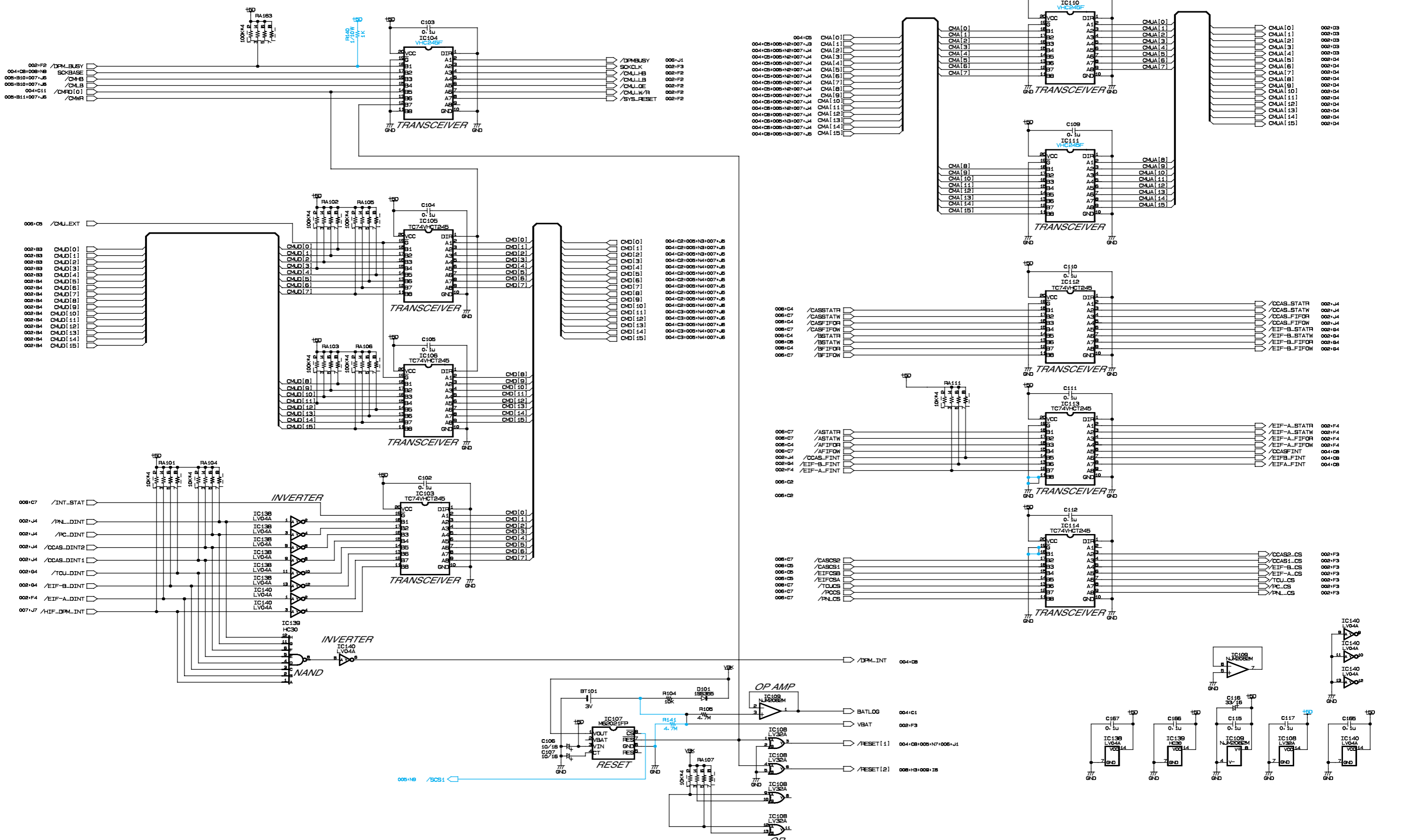
CMU1 CIRCUIT DIAGRAM 002 (CS1D)

CS1D



CMU1 CIRCUIT DIAGRAM 003 (CS1D)

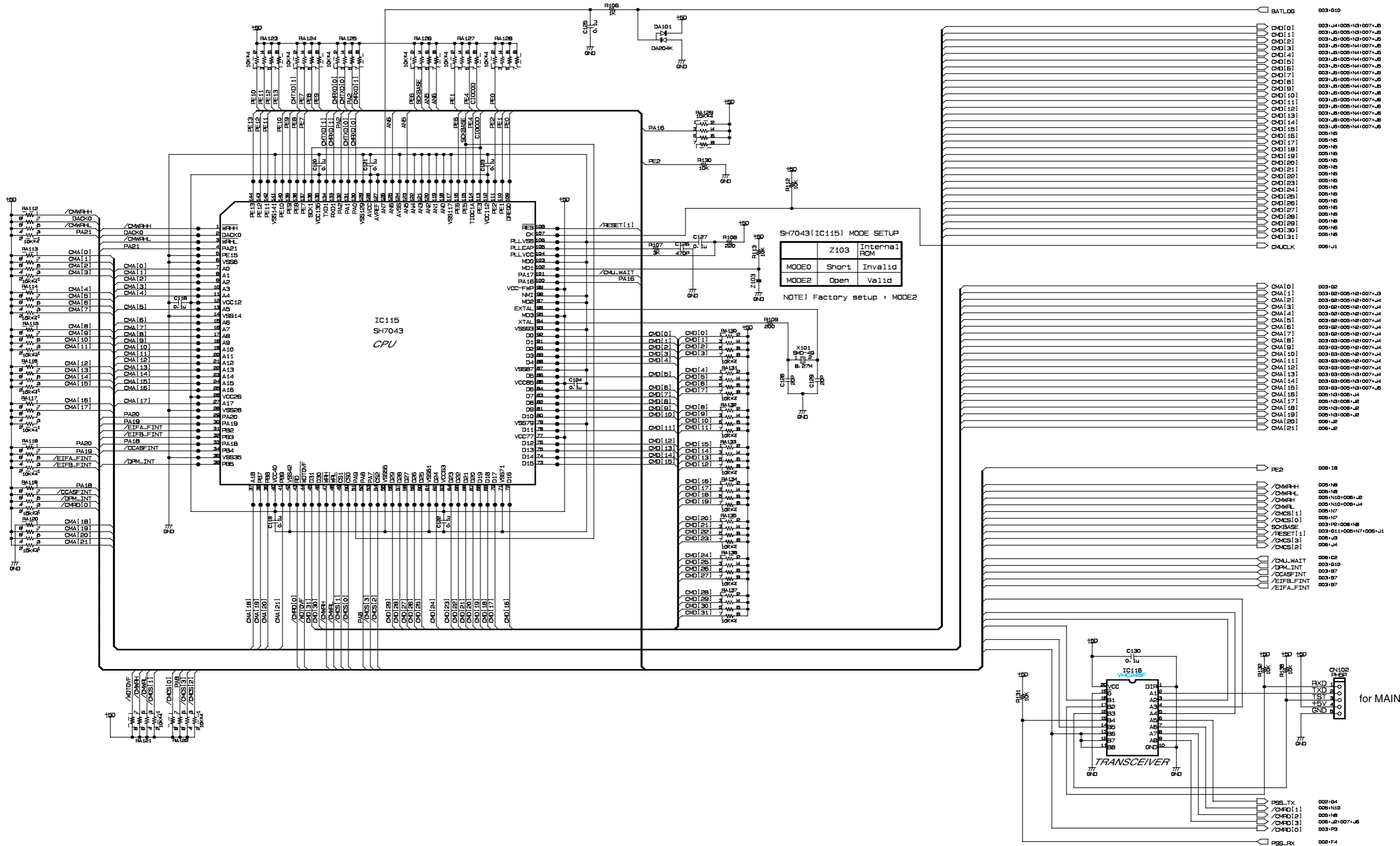
CS1D



CMU1 CIRCUIT DIAGRAM 003 (CS1D)

CMU1 CIRCUIT DIAGRAM 004 (CS1D)

CS1D



CMU1 CIRCUIT DIAGRAM 005 (CS1D)

CS1D

- 003+02+004+081007+J3 CMA[11]
- 003+02+004+081007+J4 CMA[12]
- 003+02+004+081007+J4 CMA[13]
- 003+02+004+081007+J4 CMA[14]
- 003+02+004+081007+J4 CMA[15]
- 003+02+004+081007+J4 CMA[16]
- 003+02+004+081007+J4 CMA[17]
- 003+02+004+081007+J4 CMA[18]
- 003+02+004+081007+J4 CMA[19]
- 003+02+004+081007+J4 CMA[20]
- 003+02+004+081007+J4 CMA[21]
- 003+02+004+081007+J4 CMA[22]
- 003+02+004+081007+J4 CMA[23]
- 003+02+004+081007+J4 CMA[24]
- 003+02+004+081007+J4 CMA[25]
- 003+02+004+081007+J4 CMA[26]
- 003+02+004+081007+J4 CMA[27]
- 003+02+004+081007+J4 CMA[28]
- 003+02+004+081007+J4 CMA[29]
- 003+02+004+081007+J4 CMA[30]
- 003+02+004+081007+J4 CMA[31]

- 003+04+004+081007+J5 CMD[0]
- 003+04+004+081007+J5 CMD[1]
- 003+04+004+081007+J5 CMD[2]
- 003+04+004+081007+J5 CMD[3]
- 003+04+004+081007+J5 CMD[4]
- 003+04+004+081007+J5 CMD[5]
- 003+04+004+081007+J5 CMD[6]
- 003+04+004+081007+J5 CMD[7]
- 003+04+004+081007+J5 CMD[8]
- 003+04+004+081007+J5 CMD[9]
- 003+04+004+081007+J5 CMD[10]
- 003+04+004+081007+J5 CMD[11]
- 003+04+004+081007+J5 CMD[12]
- 003+04+004+081007+J5 CMD[13]
- 003+04+004+081007+J5 CMD[14]
- 003+04+004+081007+J5 CMD[15]
- 003+04+004+081007+J5 CMD[16]
- 003+04+004+081007+J5 CMD[17]
- 003+04+004+081007+J5 CMD[18]
- 003+04+004+081007+J5 CMD[19]
- 003+04+004+081007+J5 CMD[20]
- 003+04+004+081007+J5 CMD[21]
- 003+04+004+081007+J5 CMD[22]
- 003+04+004+081007+J5 CMD[23]
- 003+04+004+081007+J5 CMD[24]
- 003+04+004+081007+J5 CMD[25]
- 003+04+004+081007+J5 CMD[26]
- 003+04+004+081007+J5 CMD[27]
- 003+04+004+081007+J5 CMD[28]
- 003+04+004+081007+J5 CMD[29]
- 003+04+004+081007+J5 CMD[30]
- 003+04+004+081007+J5 CMD[31]

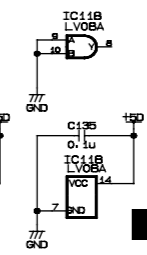
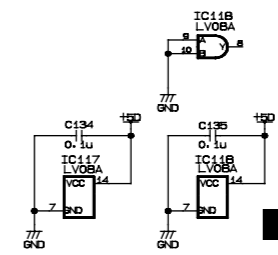
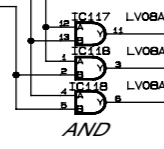
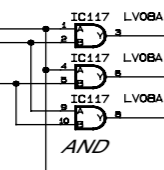
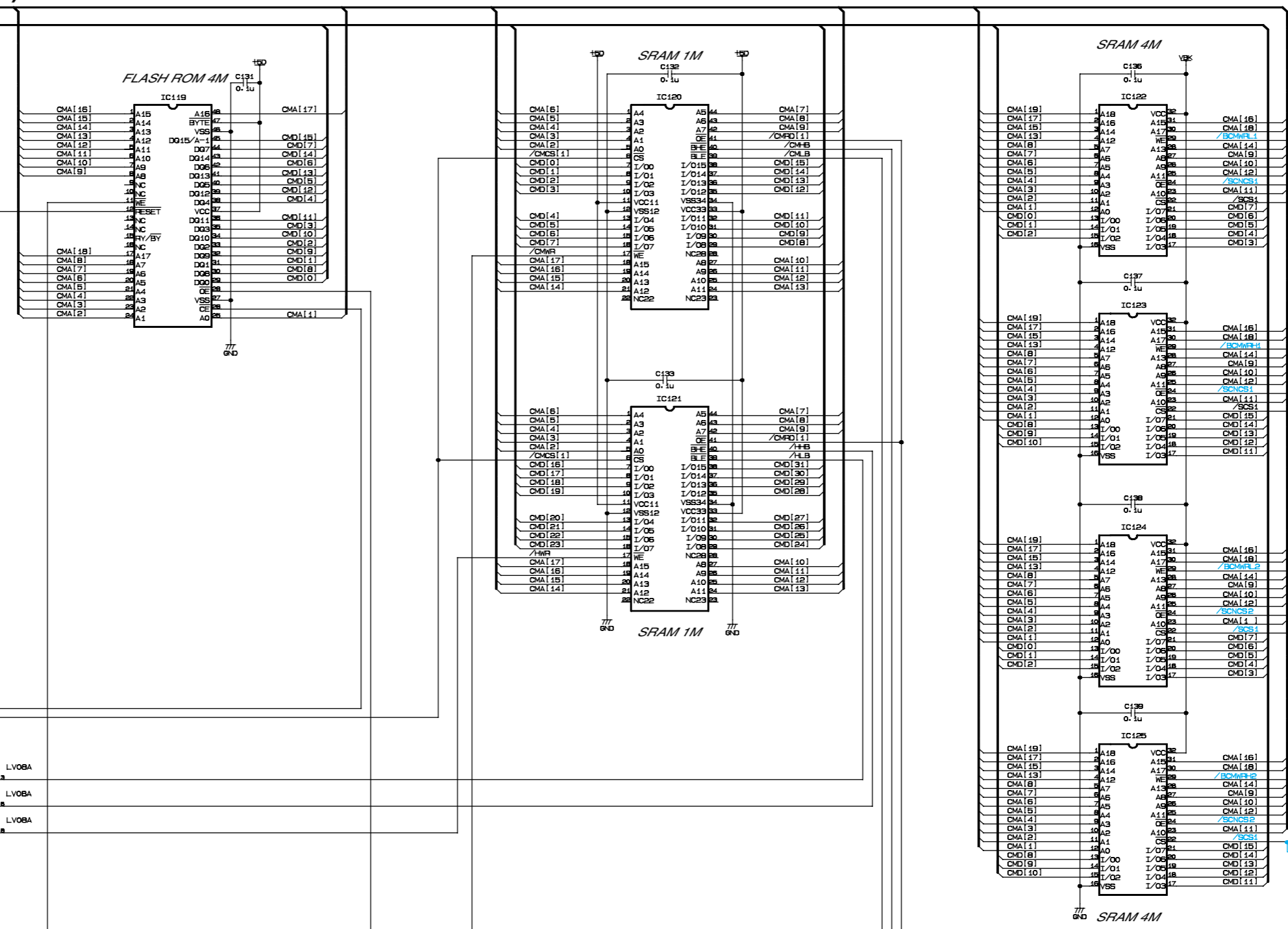
- 003+04+004+081006+J4 /RESET[1]

- 004+07 /CMCS[0]
- 004+07 /CMCS[1]

- 004+07 /CMFD[2]
- 004+07 /CMFHL
- 004+07 /CMFHH

- 003+04+081 /SCS1

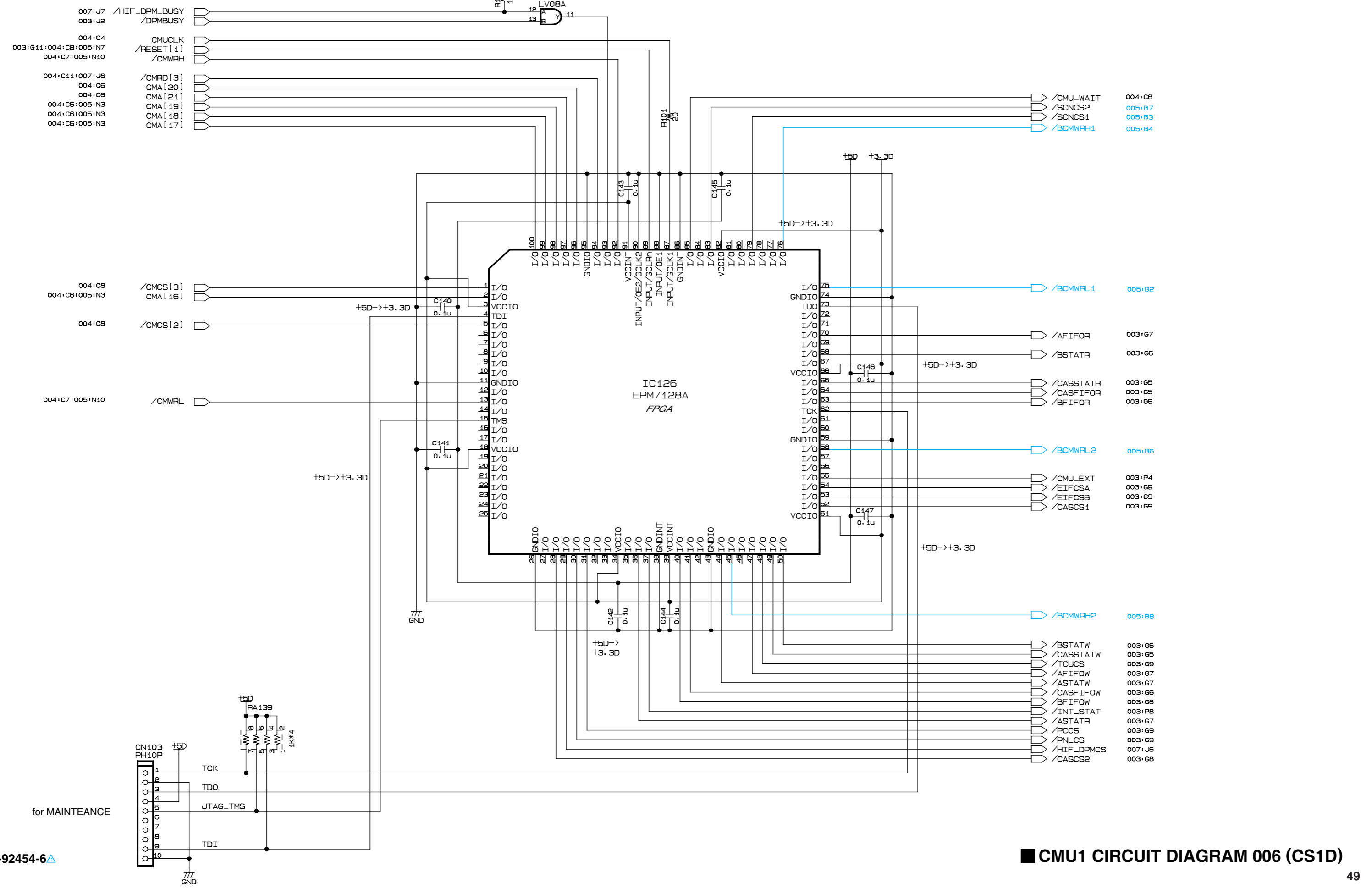
- 004+07 /CMFD[1]
- 004+07 /CMFLL
- 004+07 /CMFHH



CMU1 CIRCUIT DIAGRAM 005 (CS1D)

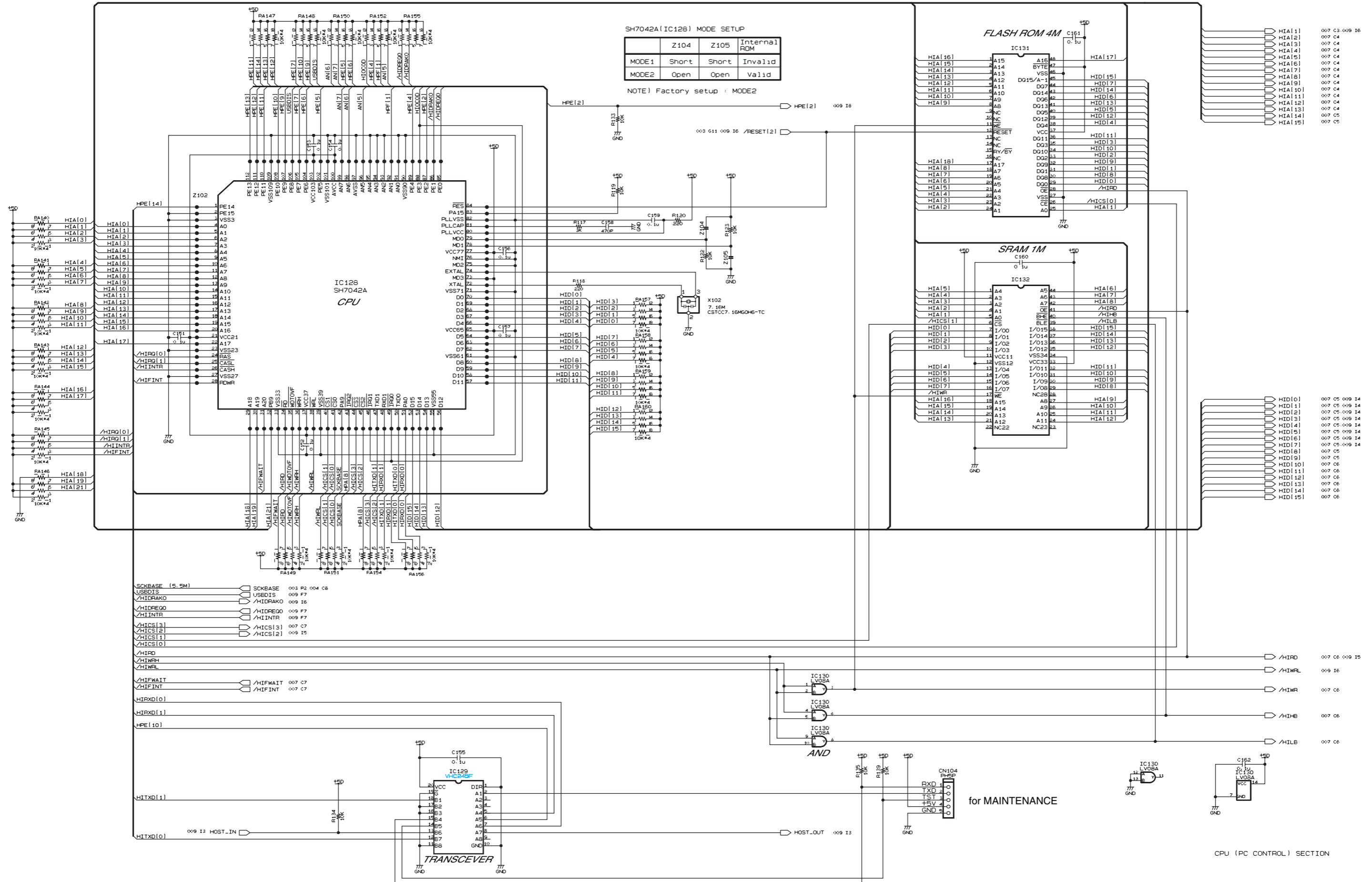
CMU1 CIRCUIT DIAGRAM 006 (CS1D)

CS1D



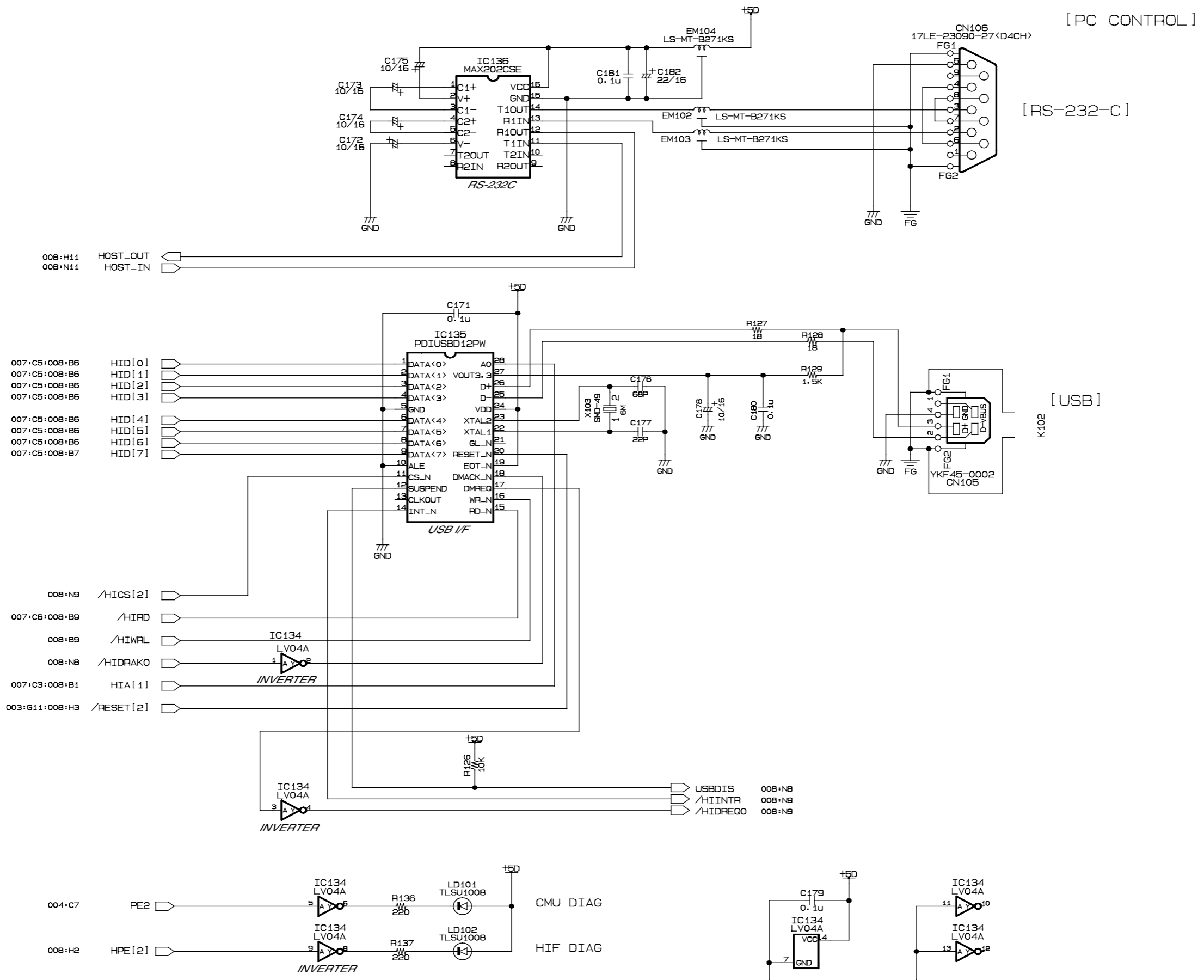
CMU1 CIRCUIT DIAGRAM 008 (CS1D)

CS1D



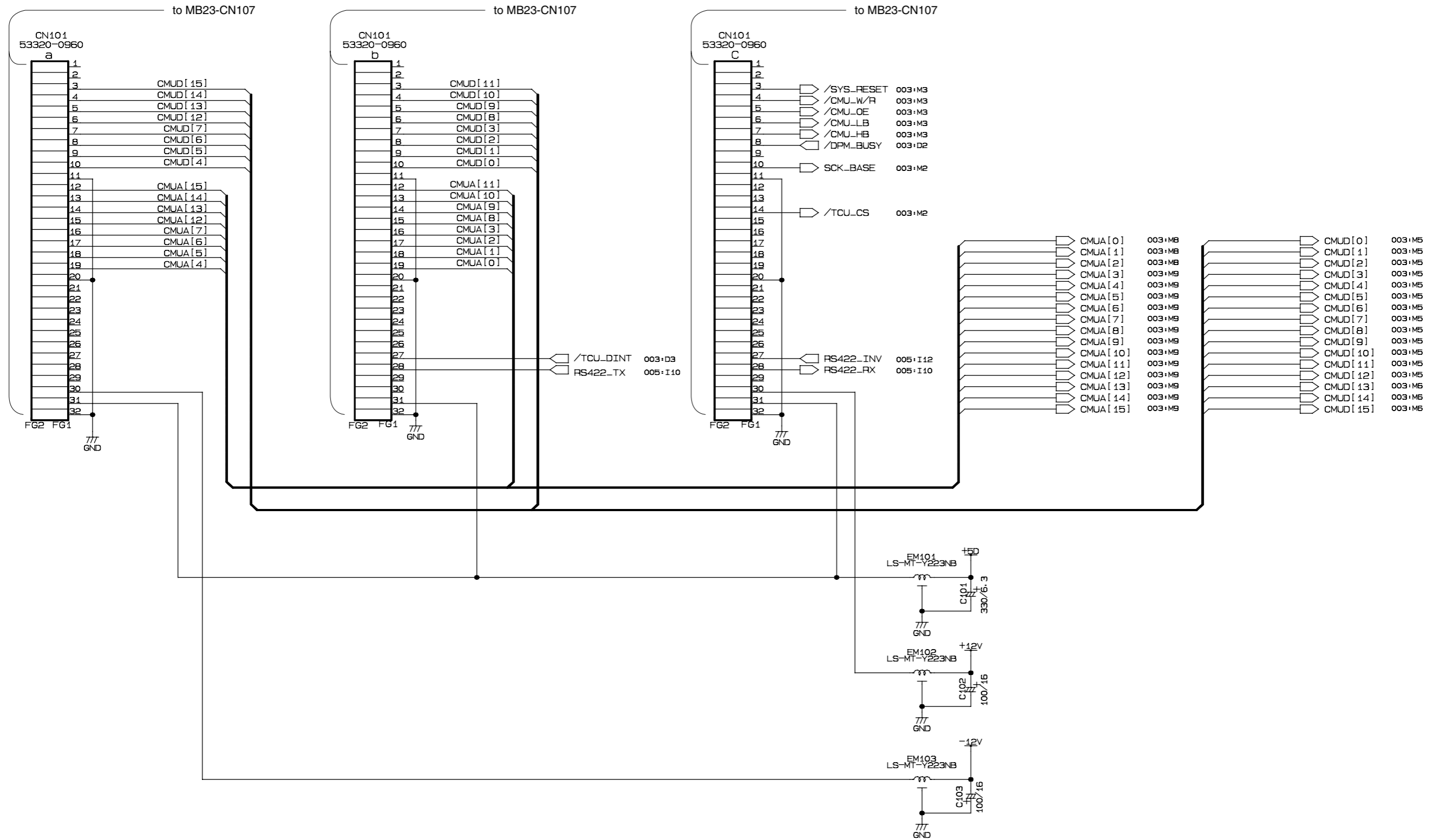
CMU1 CIRCUIT DIAGRAM 009 (CS1D)

CS1D



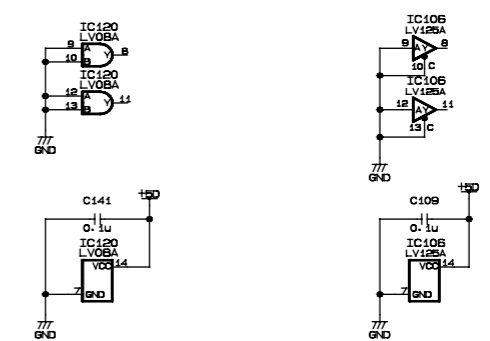
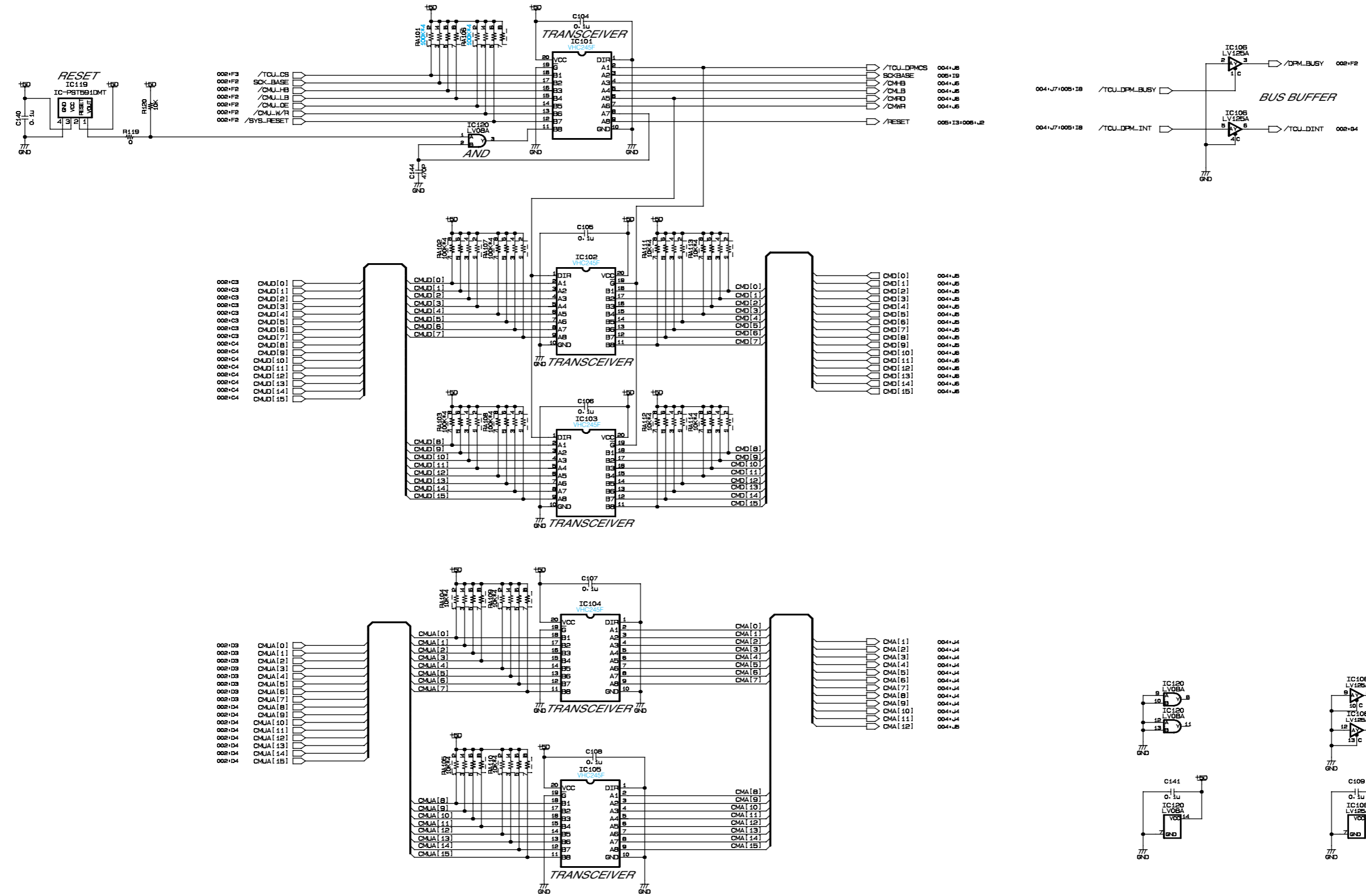
CMU2 CIRCUIT DIAGRAM 002 (CS1D)

CS1D

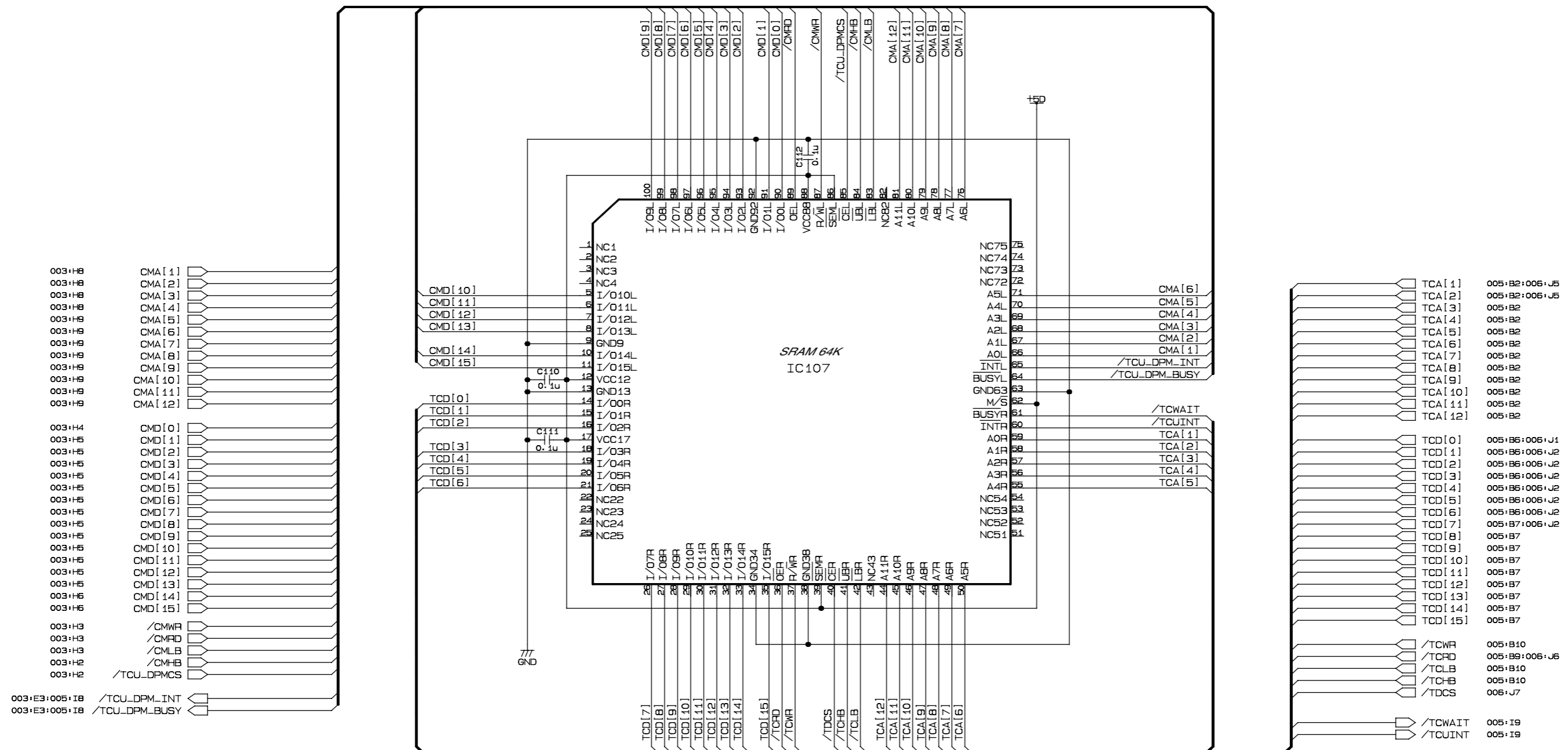


CMU2 CIRCUIT DIAGRAM 003 (CS1D)

CS1D



BUFFER SECTION



DUAL PORT MEMORY (CM BUS <-> TC BUS) SECTION

CMU2 CIRCUIT DIAGRAM 006 (CS1D)

CS1D

004.C5:005.B6 TCD[0]
 004.C5:005.B6 TCD[1]
 004.C5:005.B6 TCD[2]
 004.C5:005.B6 TCD[3]
 004.C5:005.B6 TCD[4]
 004.C5:005.B6 TCD[5]
 004.C5:005.B6 TCD[6]
 004.C5:005.B7 TCD[7]

003.H3:005.I3 /RESET
 005.I10 TCINT

004.C4:005.B2 TCA[1]
 004.C4:005.B2 TCA[2]

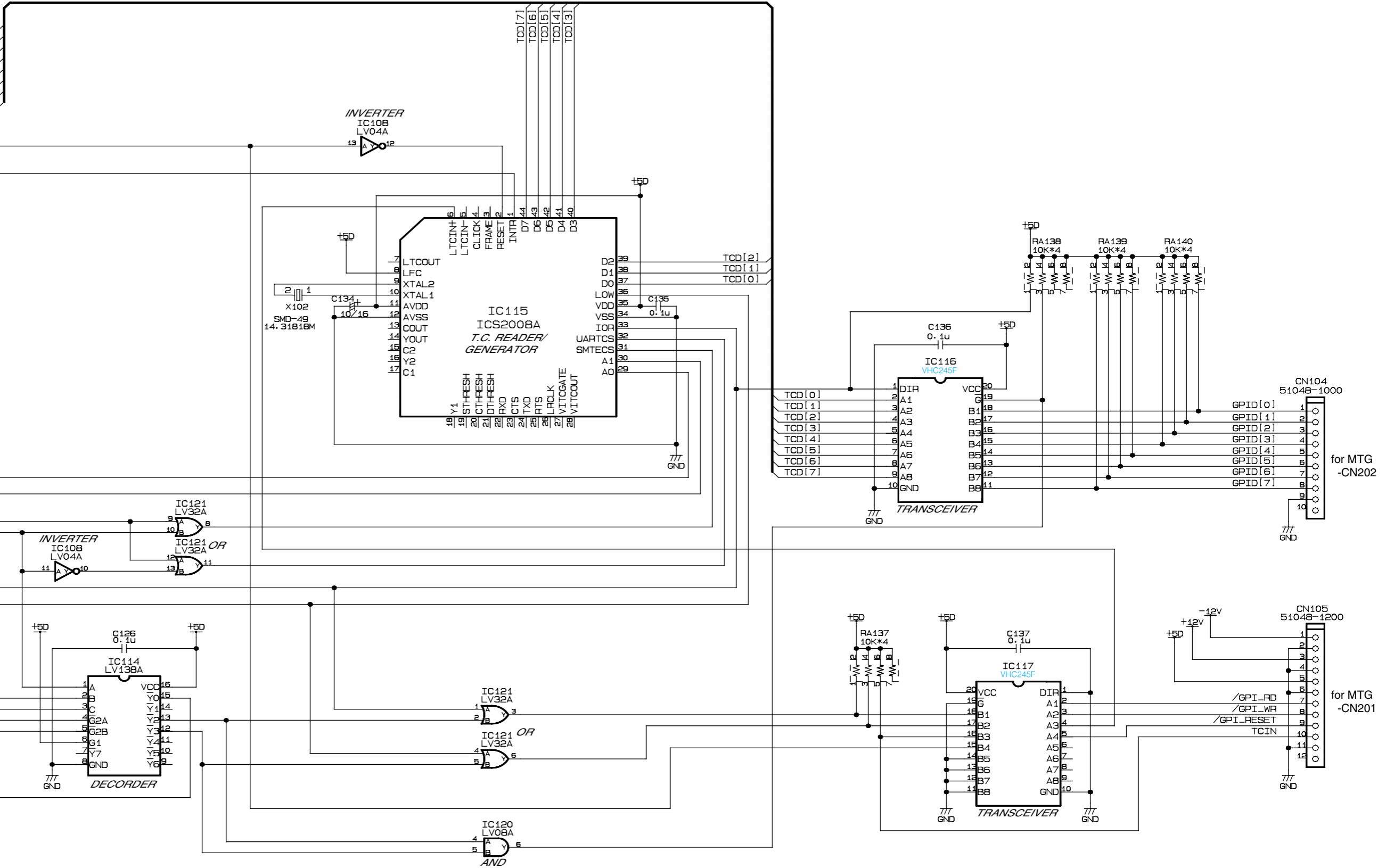
005.I9 /TCCS[2]
 005.B3 TCA[16]

004.C6:005.B9 /TCRD
 005.B9 /TCWRL

005.B3 TCA[17]
 005.B3 TCA[18]

005.B3 TCA[19]
 005.I9 /TCCS[3]

004.C6 /TDCS

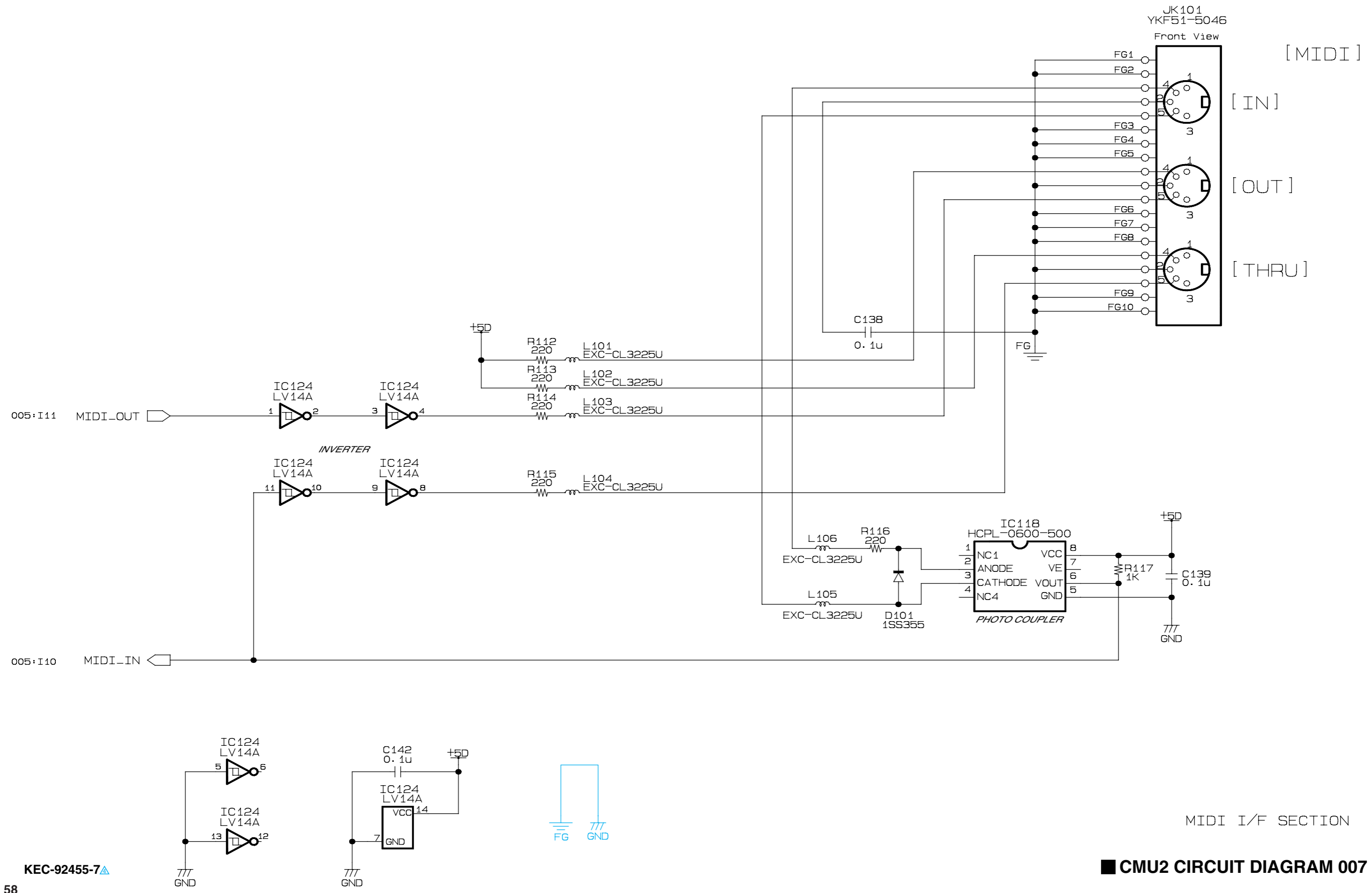


TIME CODE CONTROL SECTION

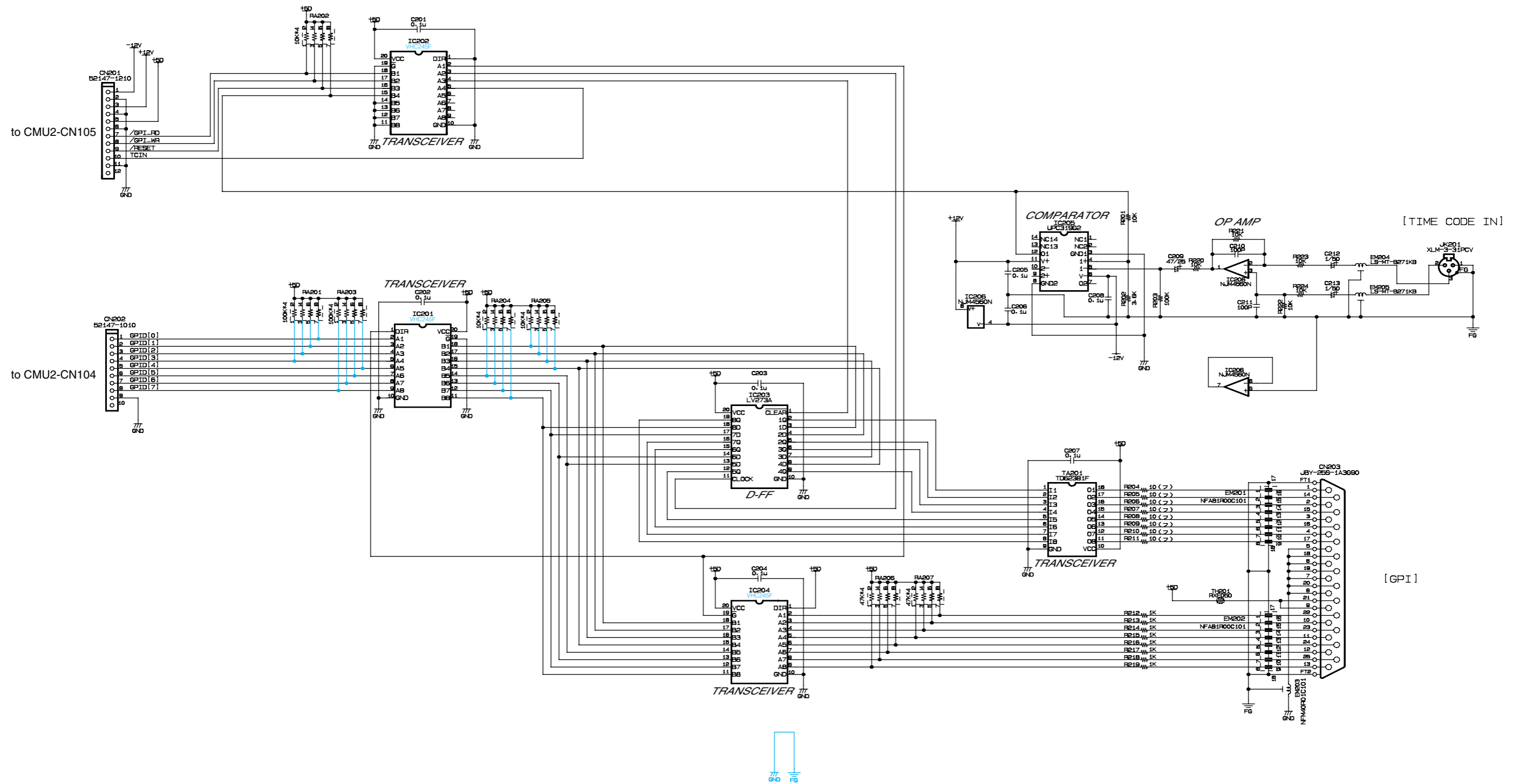
CMU2 CIRCUIT DIAGRAM 006 (CS1D)

CMU2 CIRCUIT DIAGRAM 007 (CS1D)

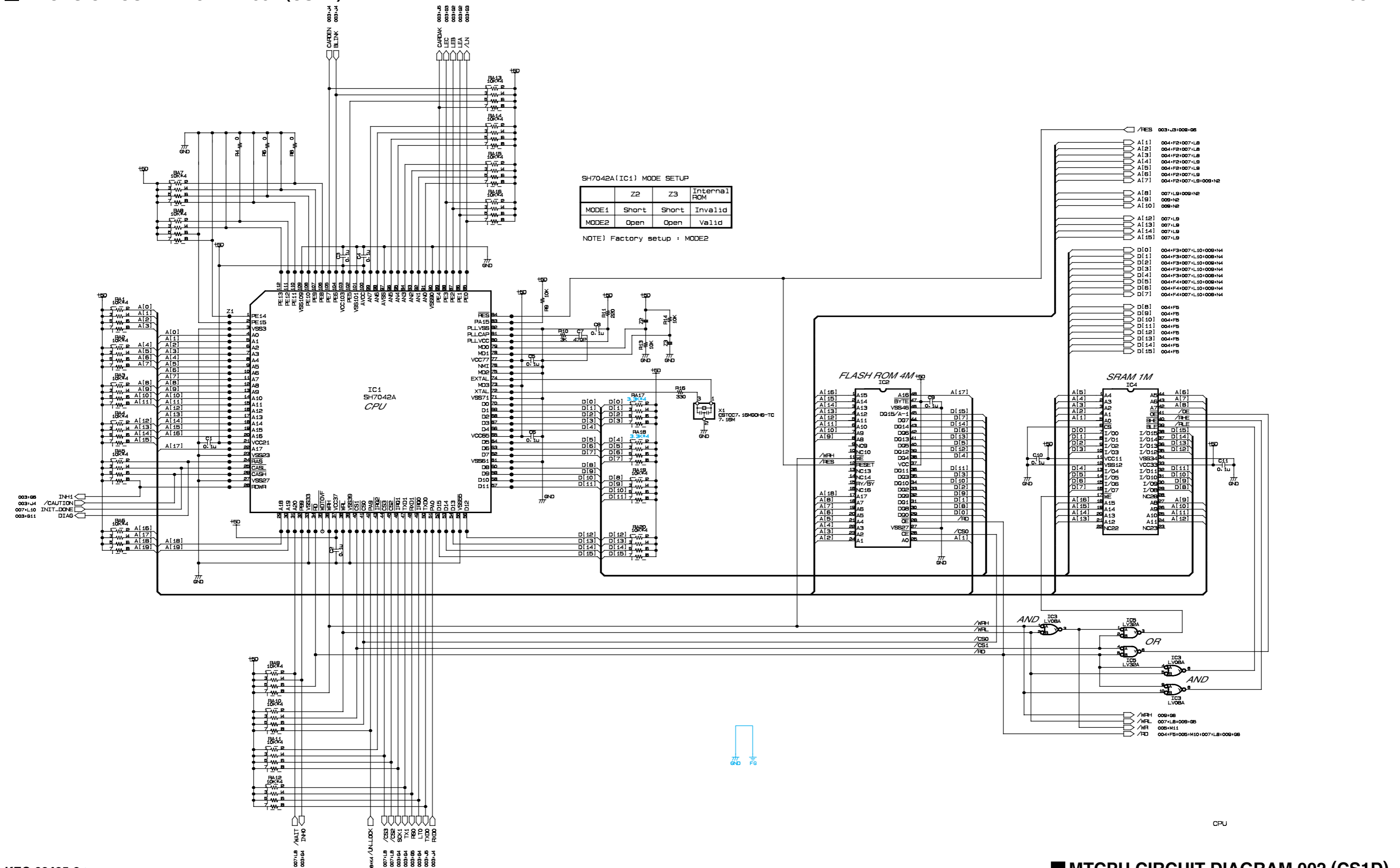
CS1D



MIDI I/F SECTION

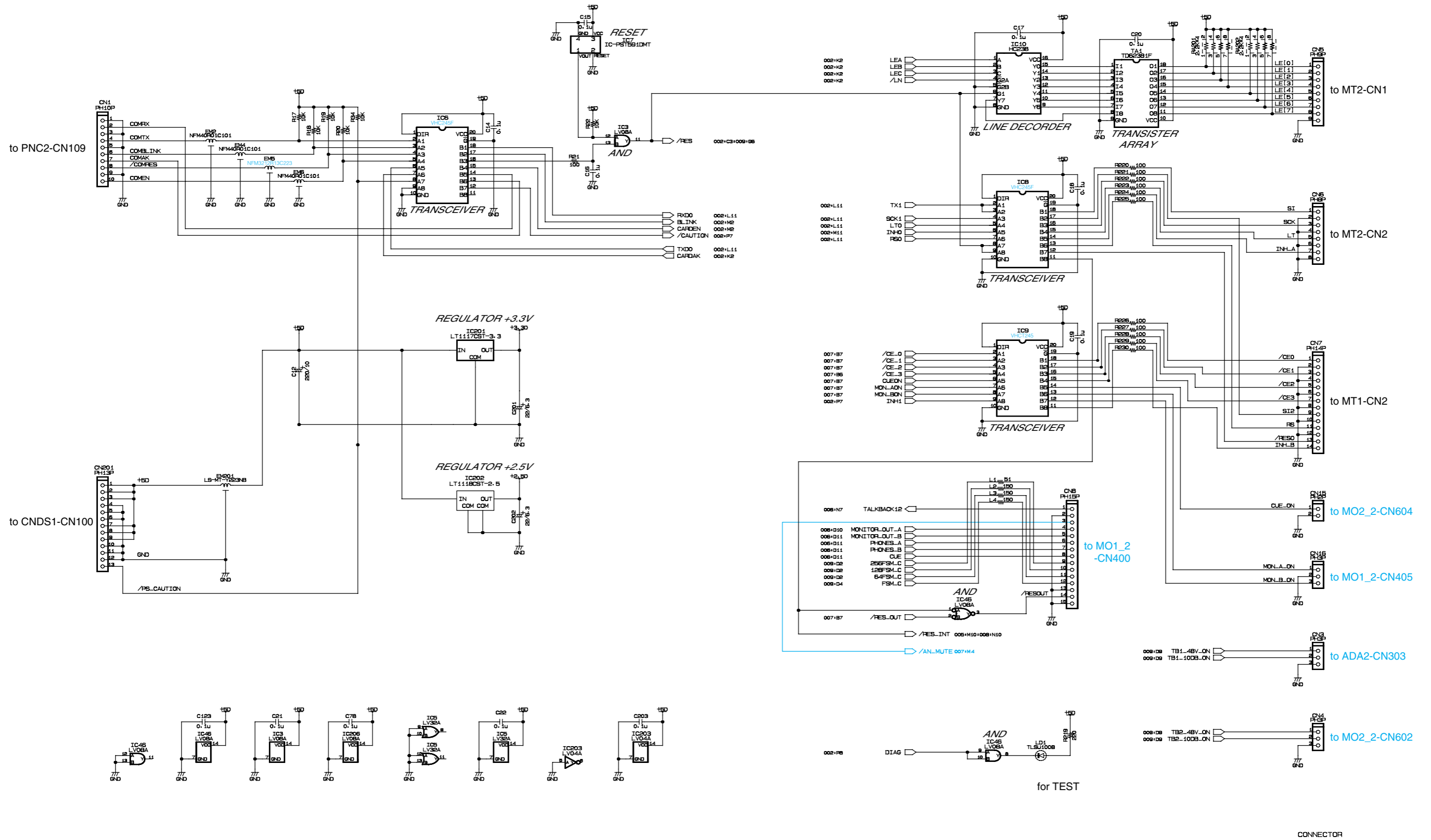


(?) : Flame Proof Carbon Resistor



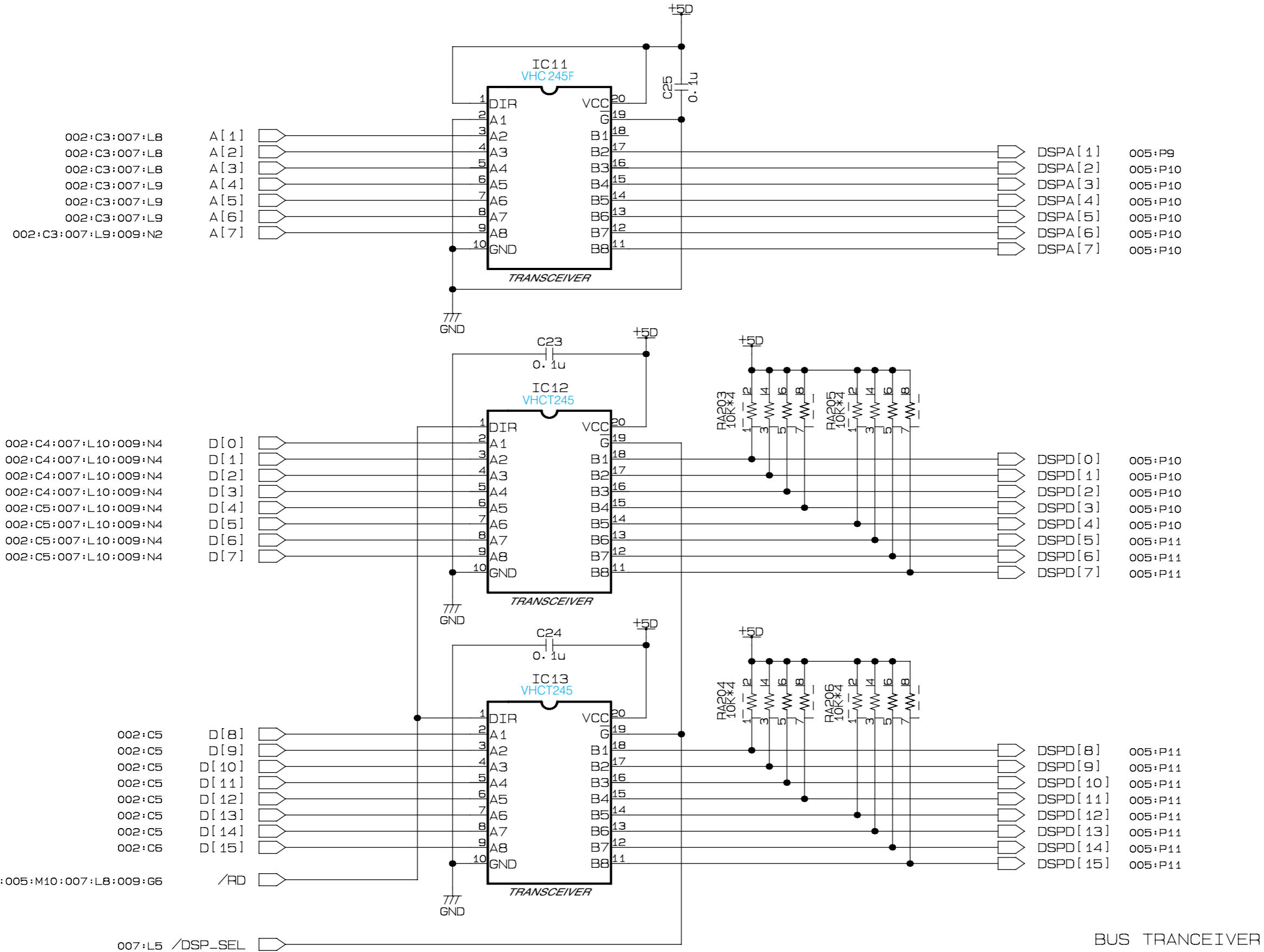
MTCPU CIRCUIT DIAGRAM 003 (CS1D)

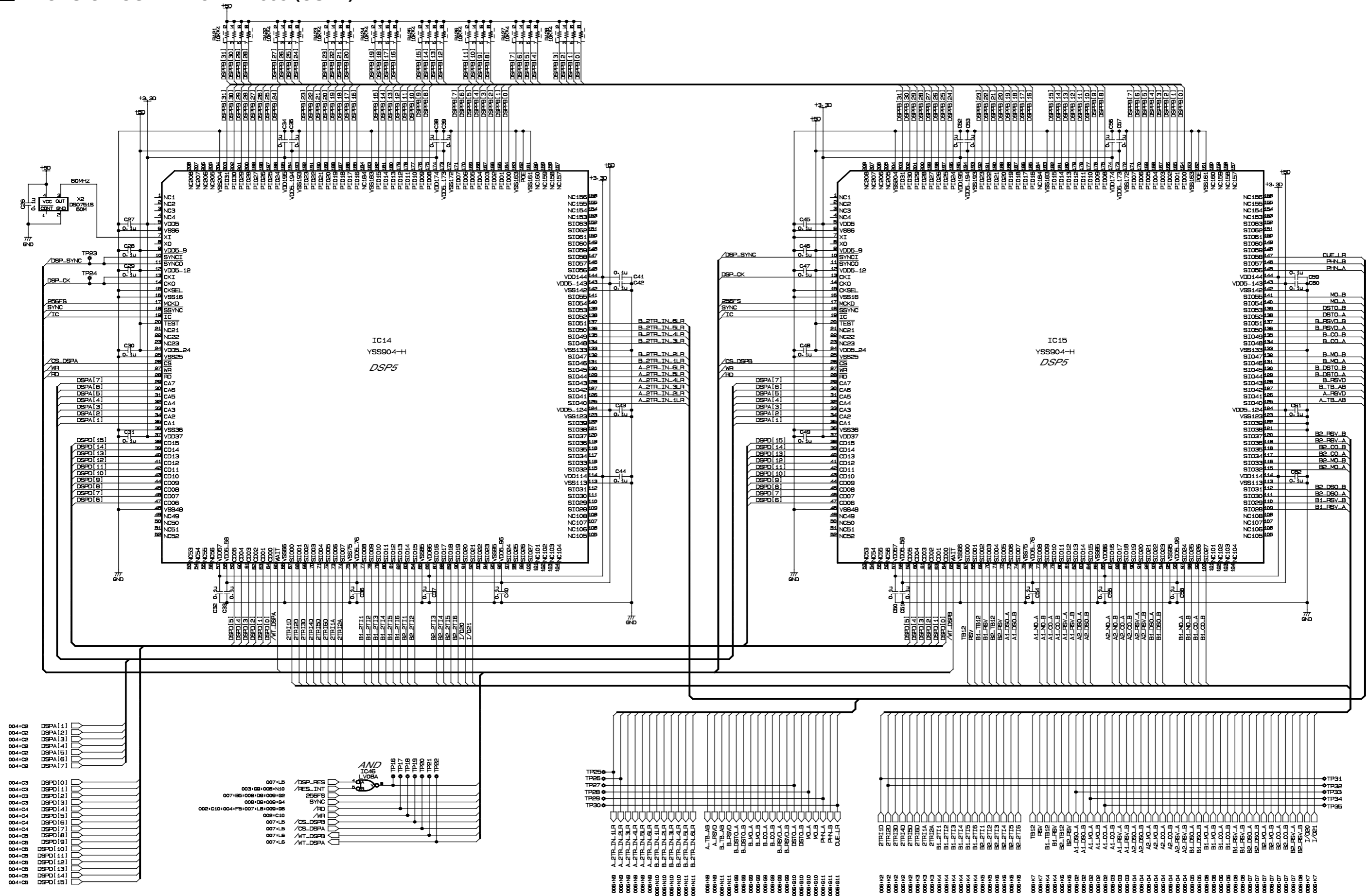
CS1D



MTCPU CIRCUIT DIAGRAM 004 (CS1D)

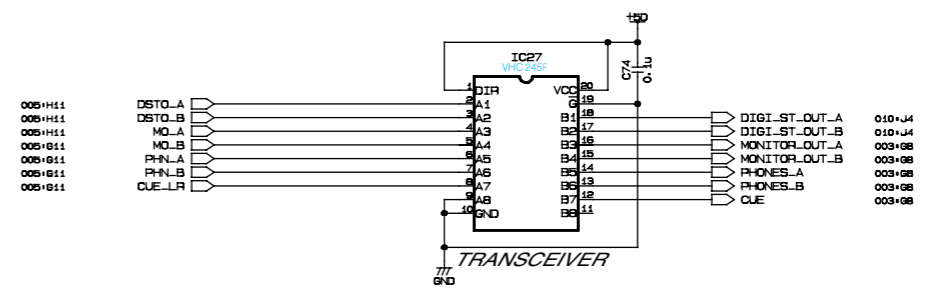
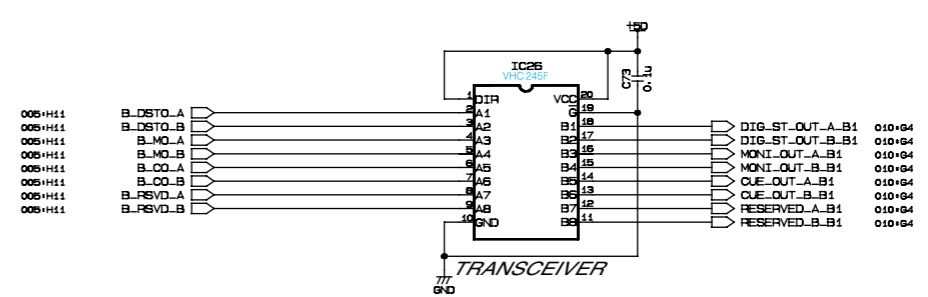
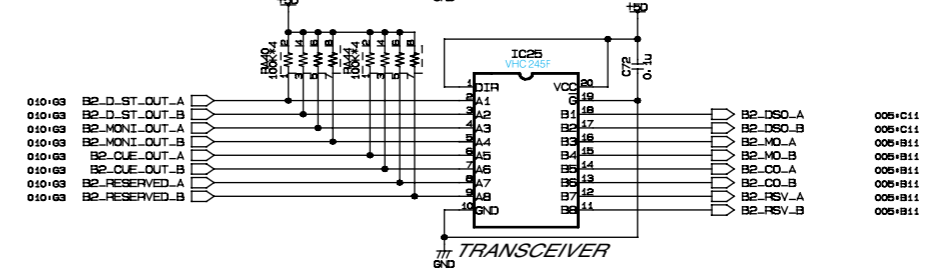
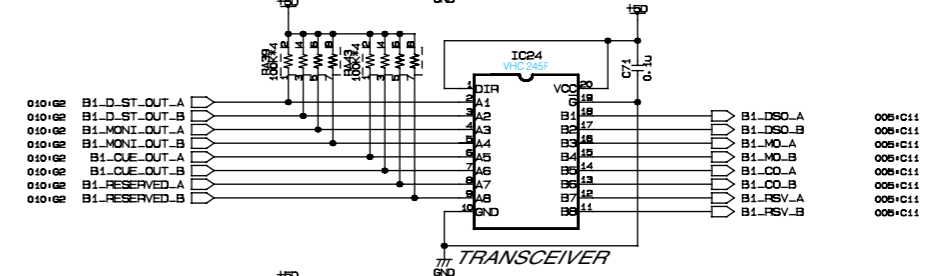
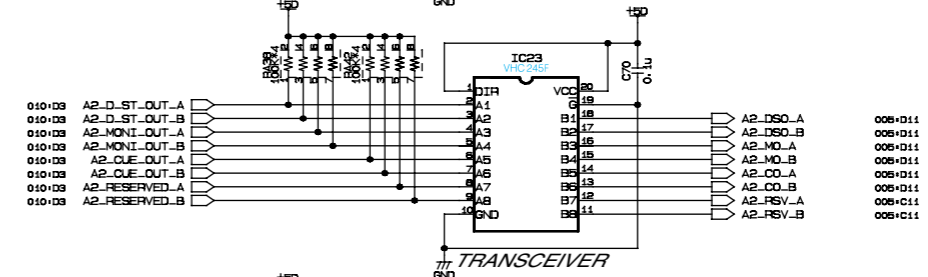
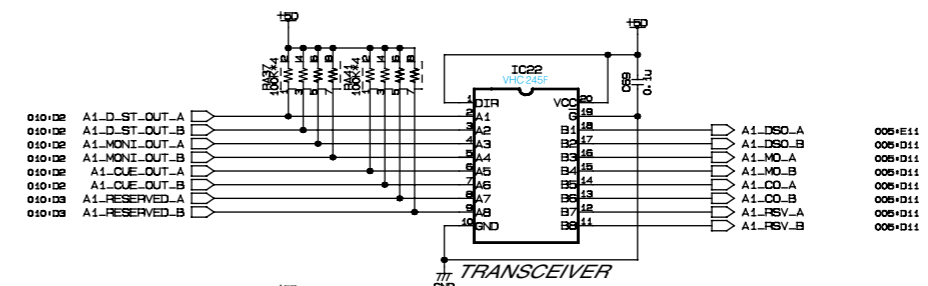
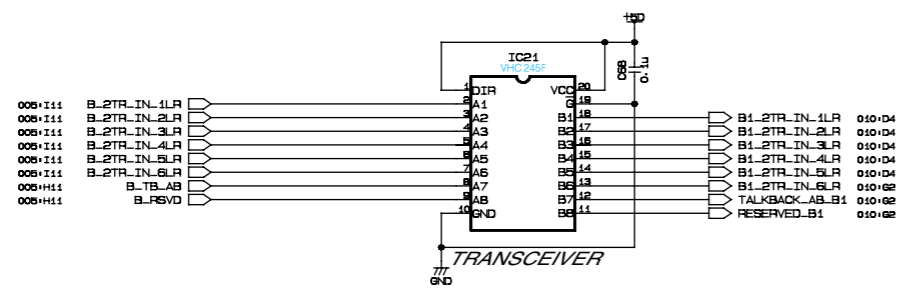
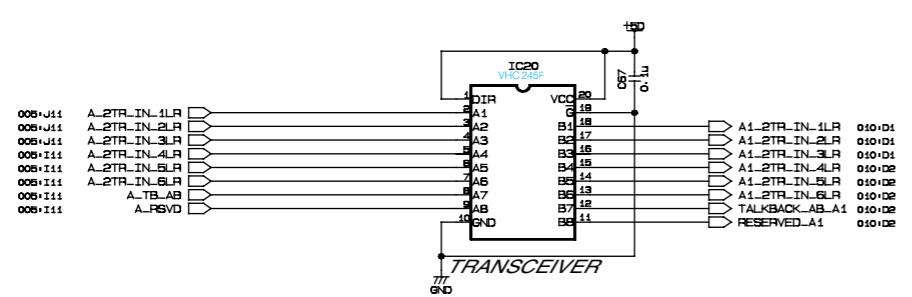
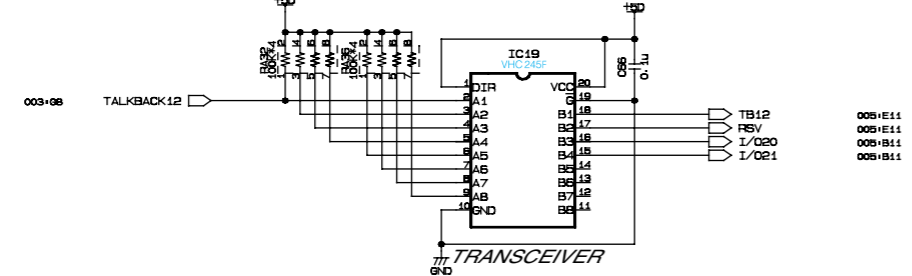
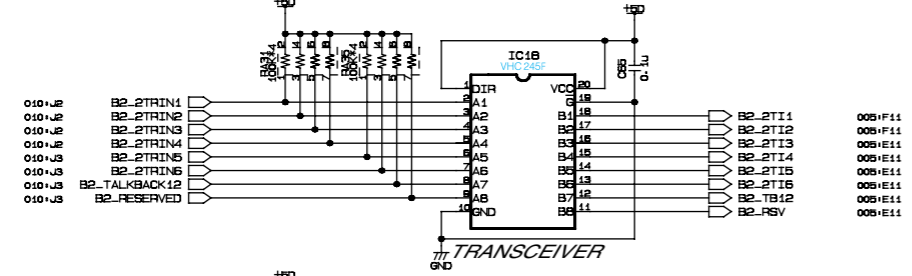
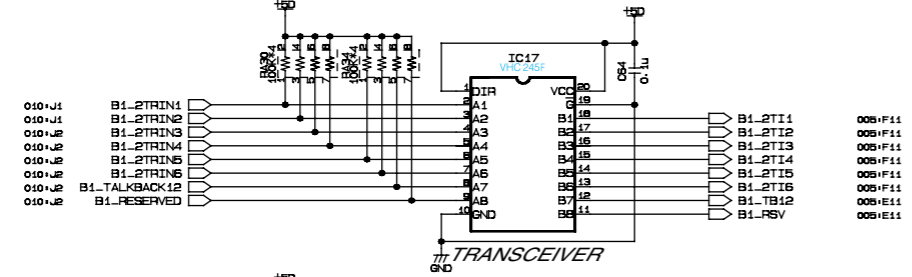
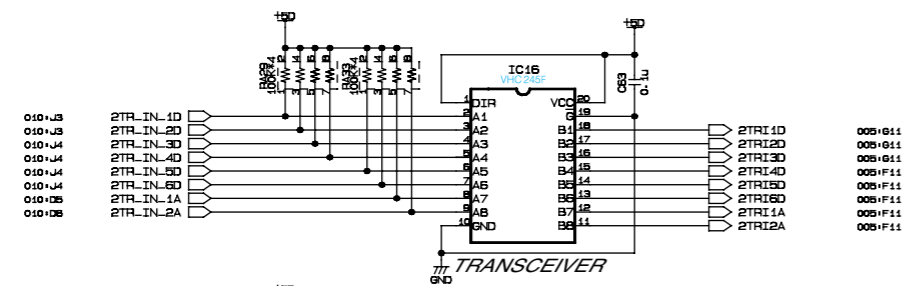
CS1D





MTCPU CIRCUIT DIAGRAM 006 (CS1D)

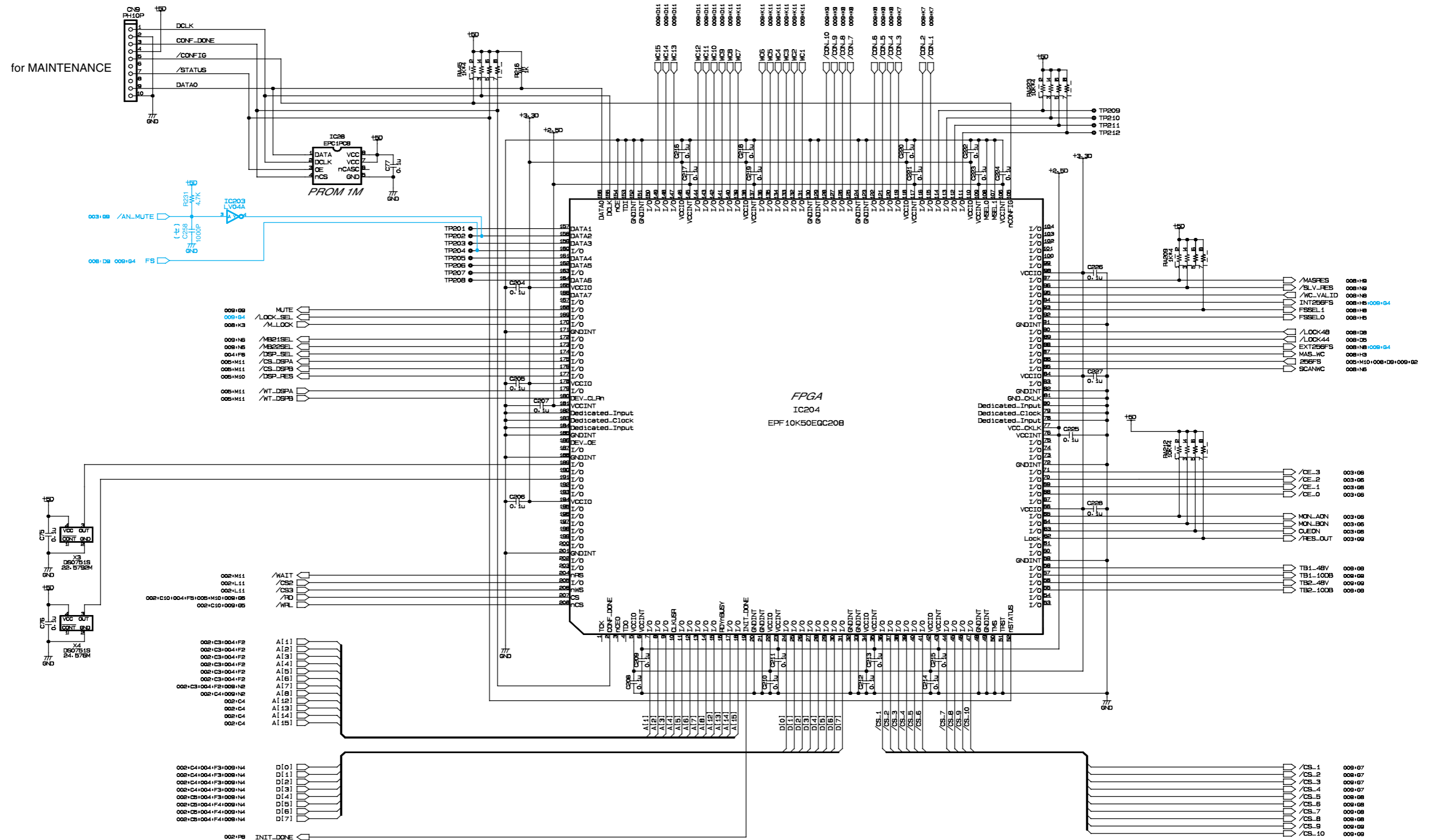
CS1D



BUFFER

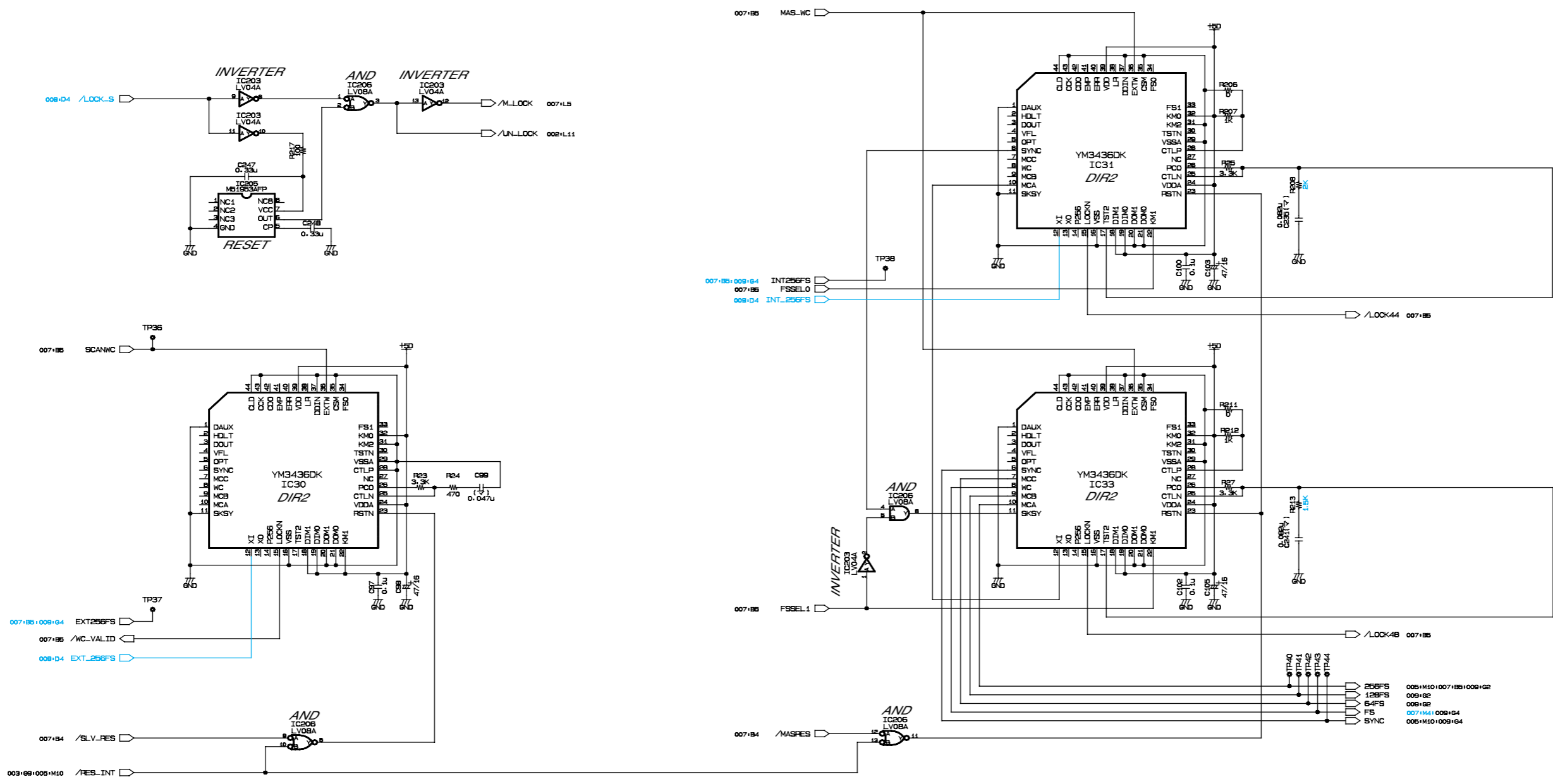
MTCPU CIRCUIT DIAGRAM 007 (CS1D)

CS1D



MTCPU CIRCUIT DIAGRAM 008 (CS1D)

CS1D



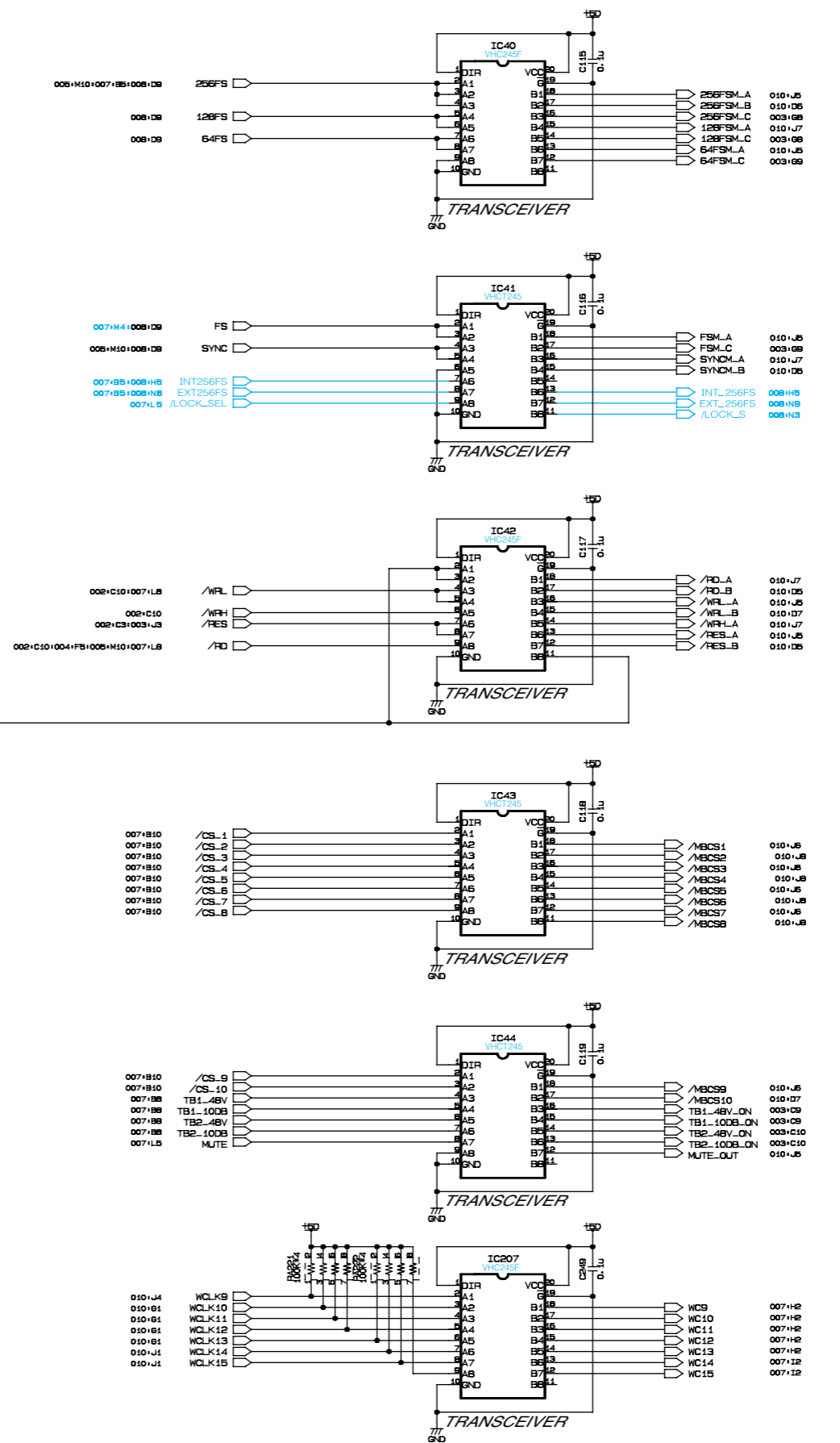
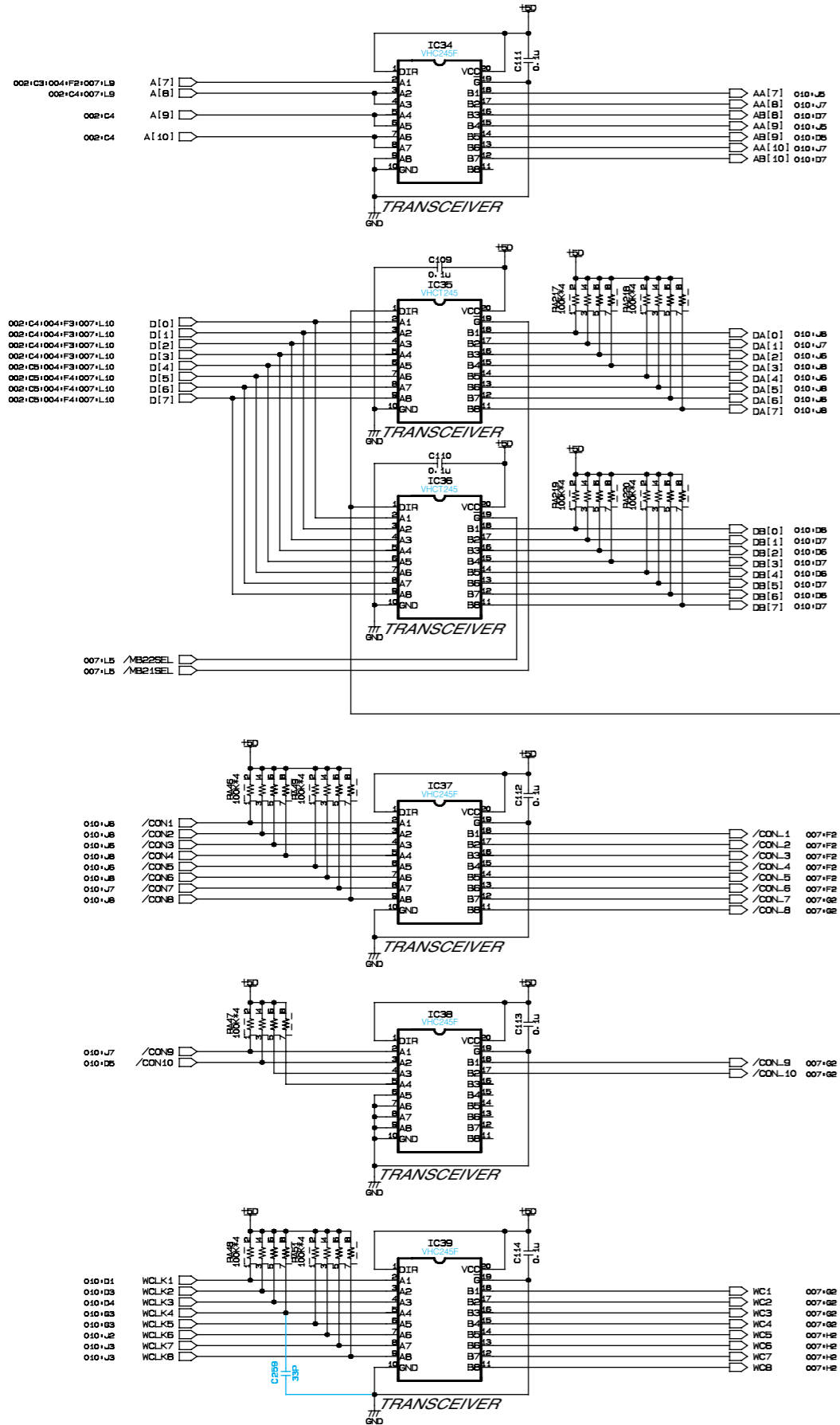
PLL

(マ): Mylar Capacitor

MTCPU CIRCUIT DIAGRAM 008 (CS1D)

MTCPU CIRCUIT DIAGRAM 009 (CS1D)

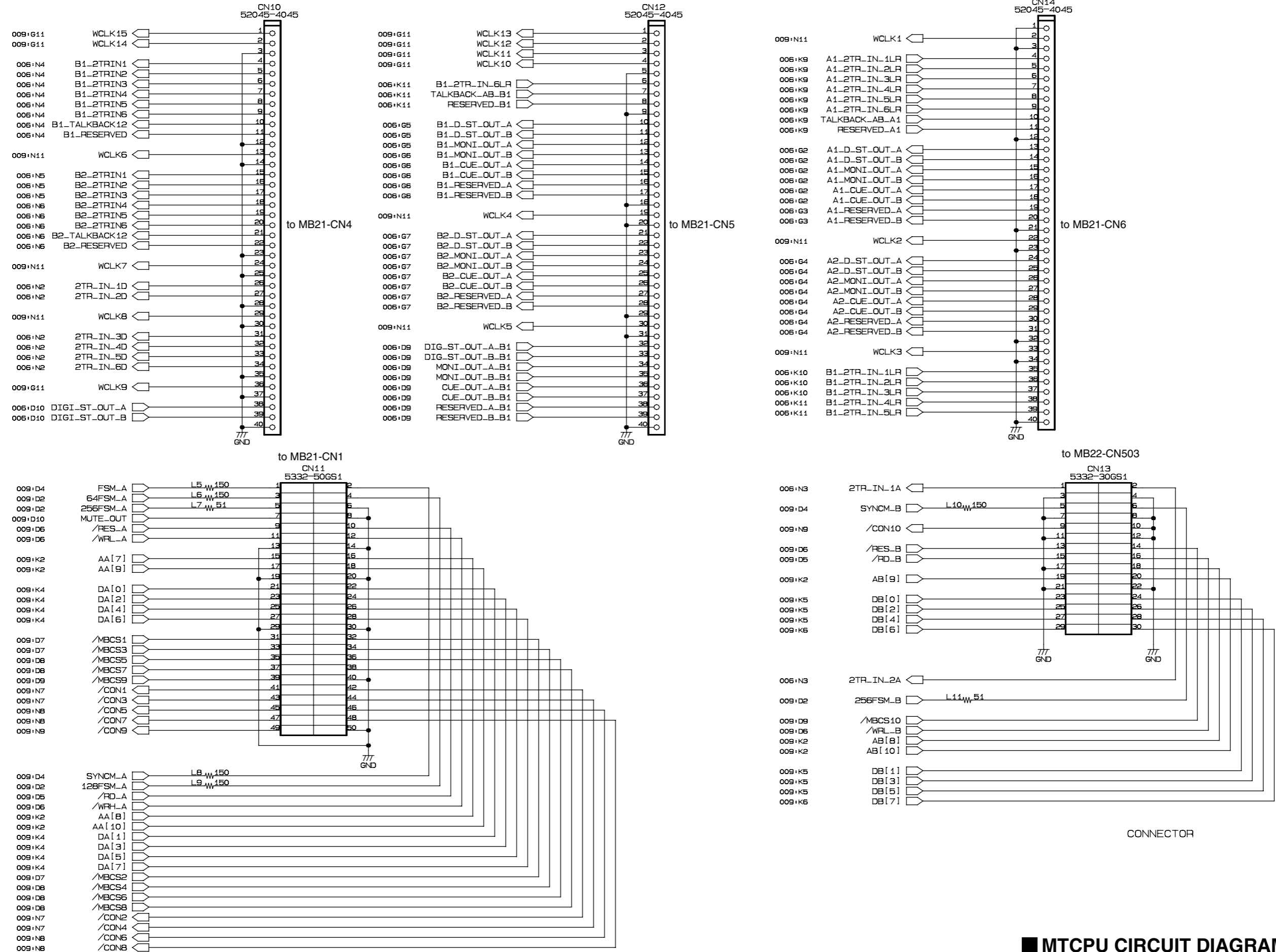
CS1D



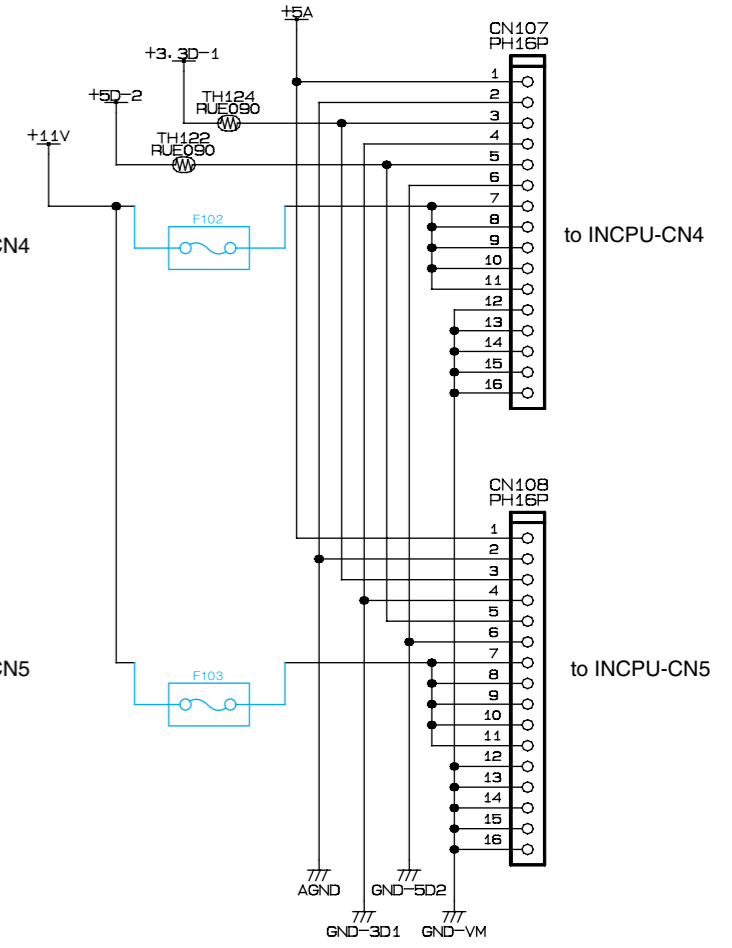
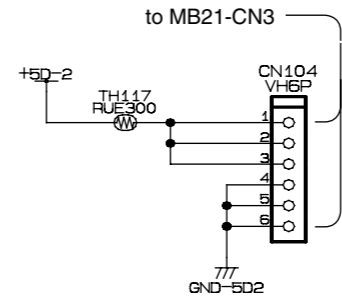
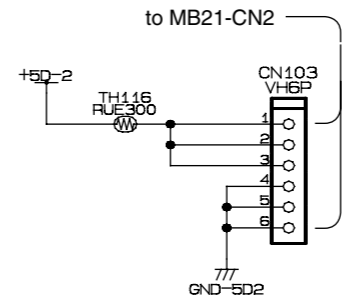
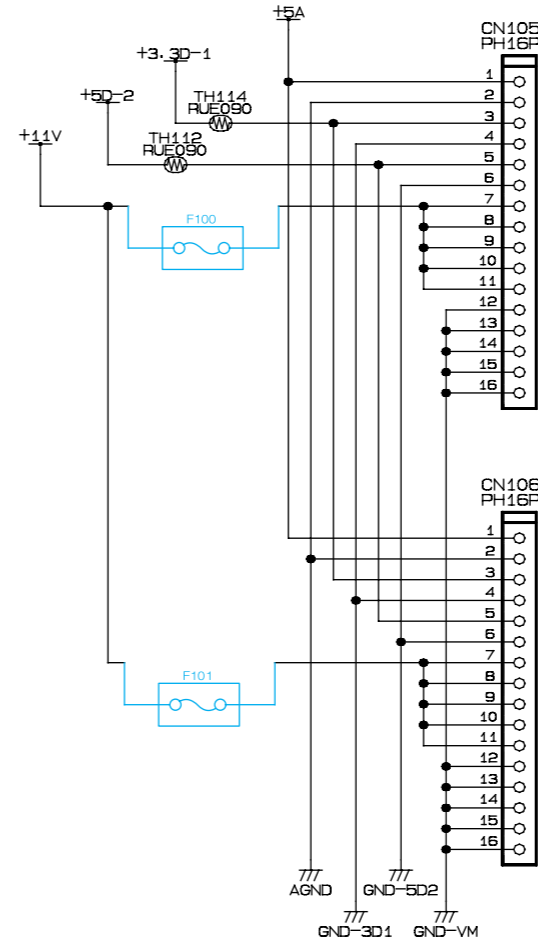
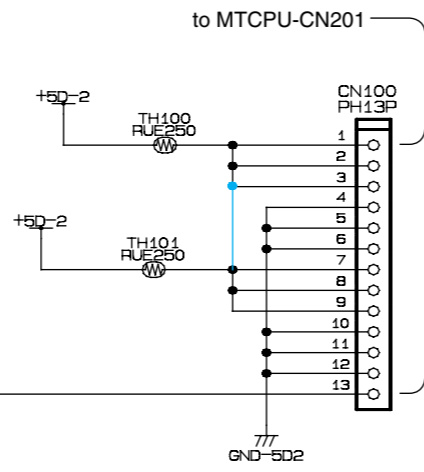
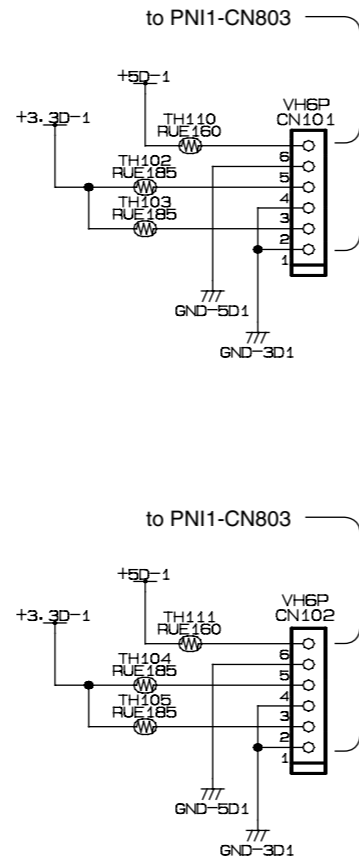
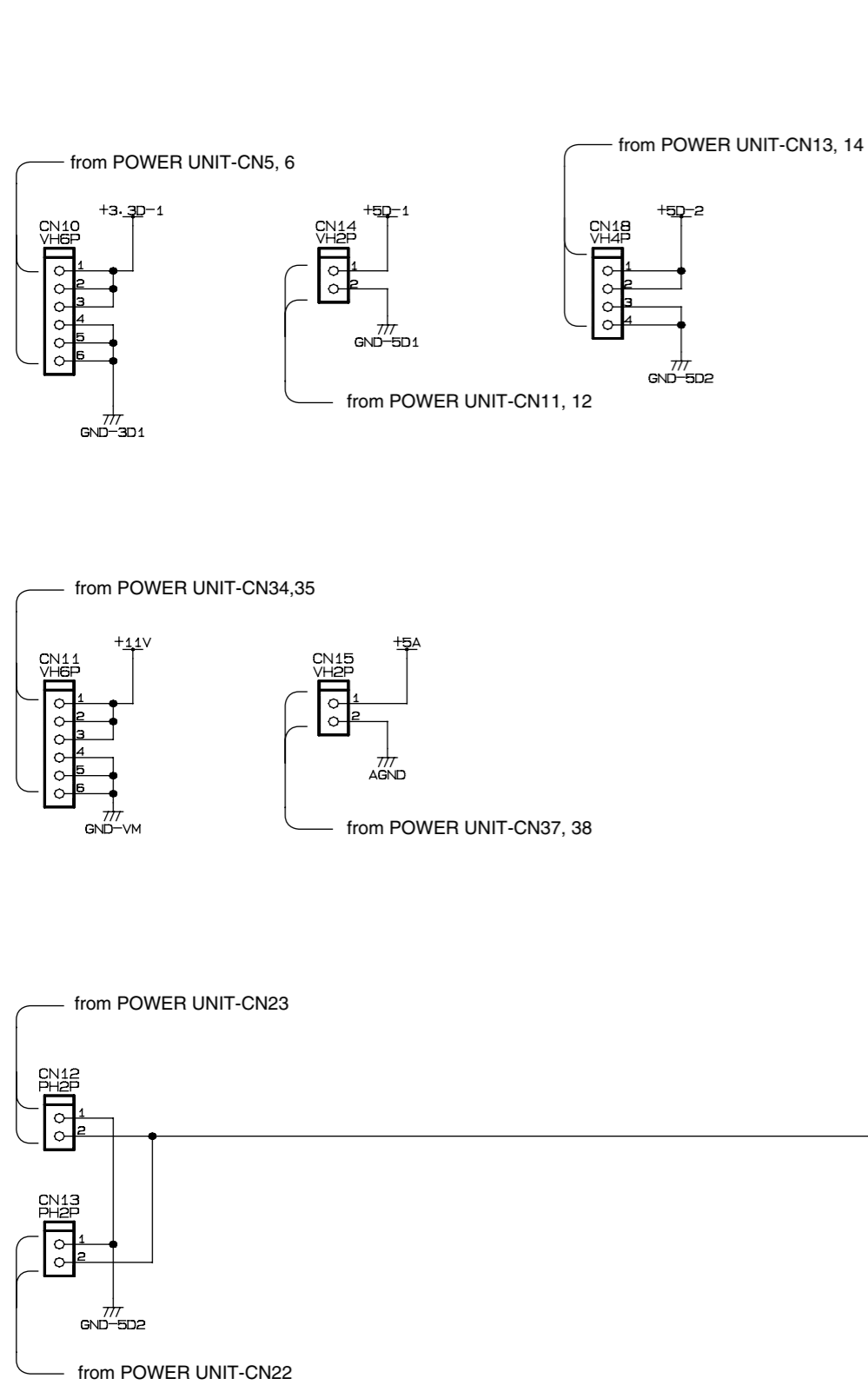
BUFFER

MTCPU CIRCUIT DIAGRAM 010 (CS1D)

CS1D

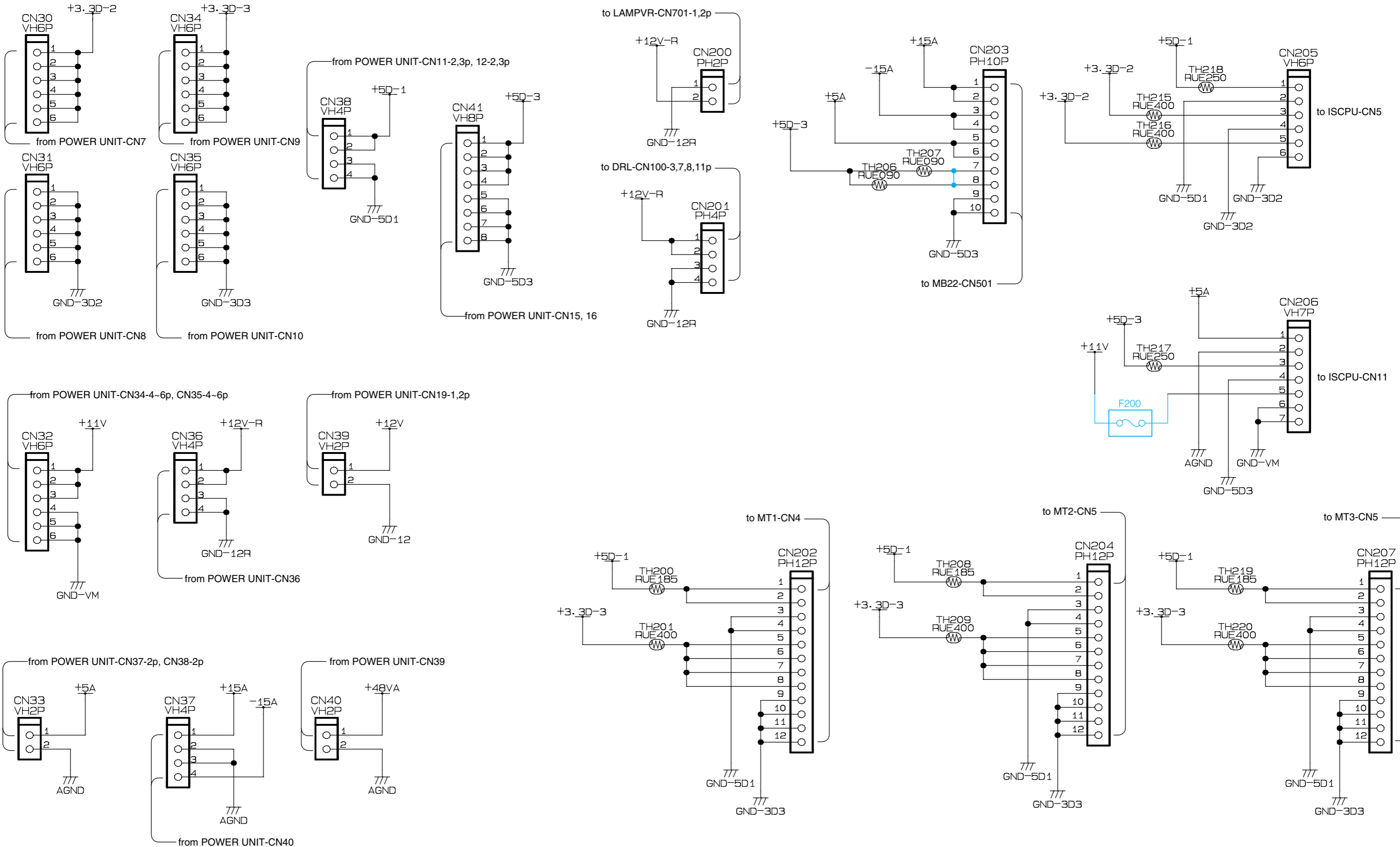


■ CNDS1 CIRCUIT DIAGRAM (CS1D)



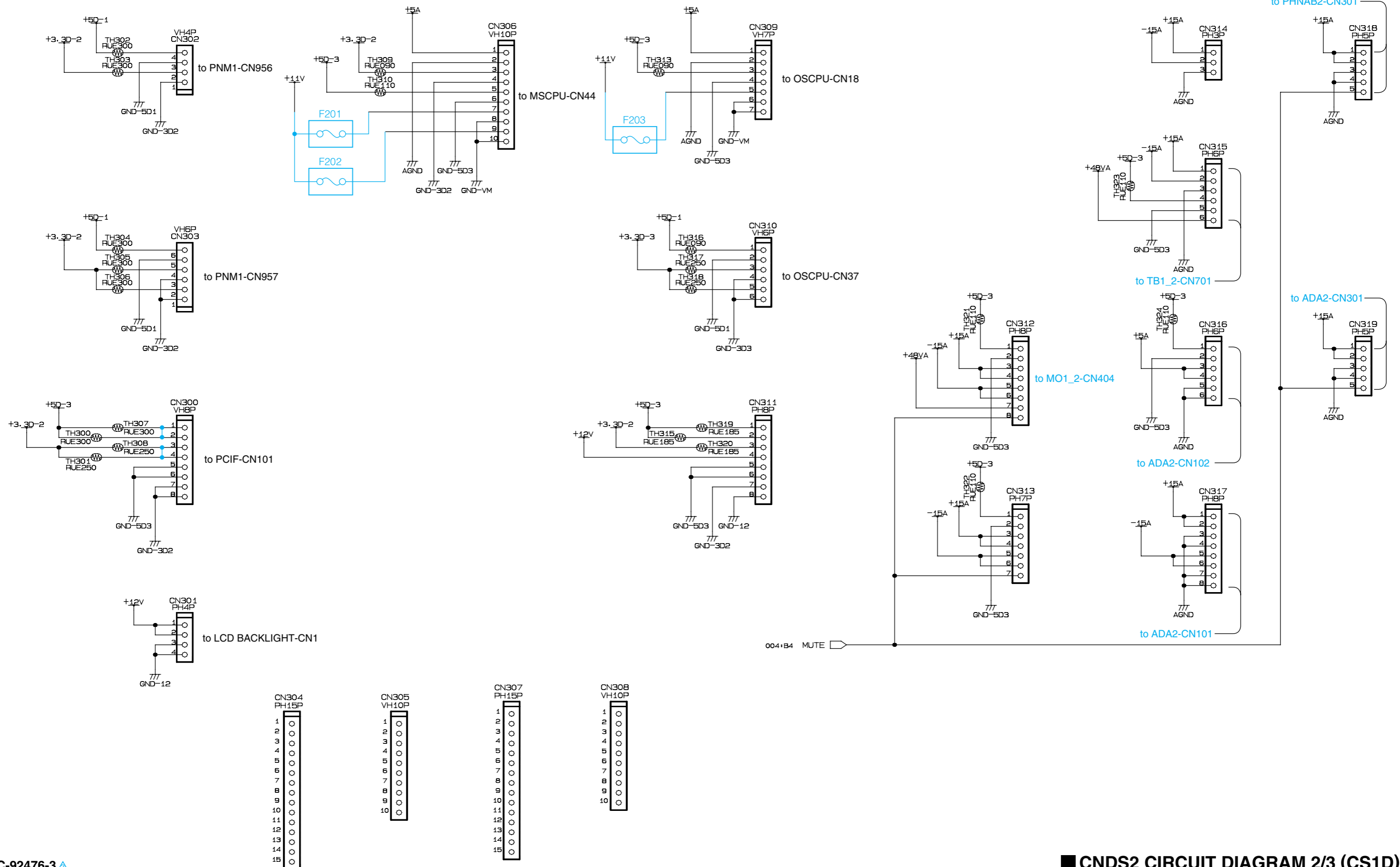
■ CNDS2 CIRCUIT DIAGRAM 1/3 (CS1D)

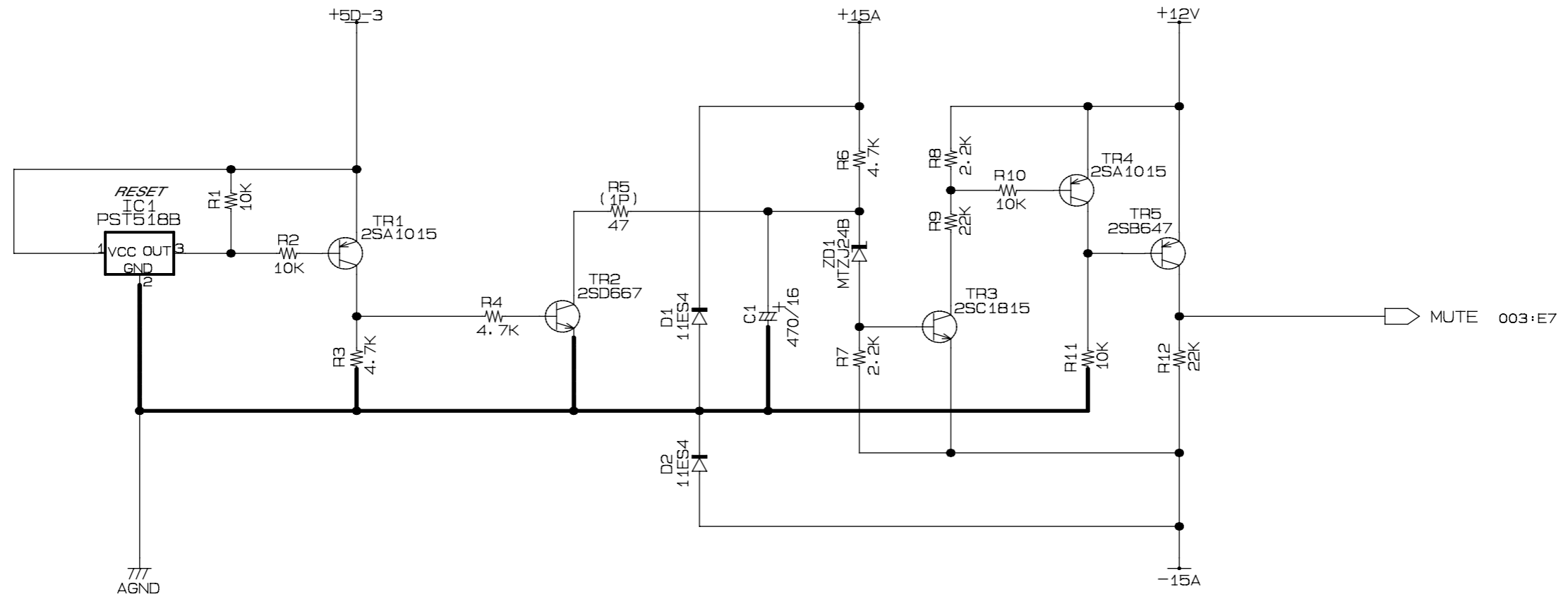
CS1D



■ CNDS2 CIRCUIT DIAGRAM 1/3 (CS1D)

■ CNDS2 CIRCUIT DIAGRAM 2/3 (CS1D)

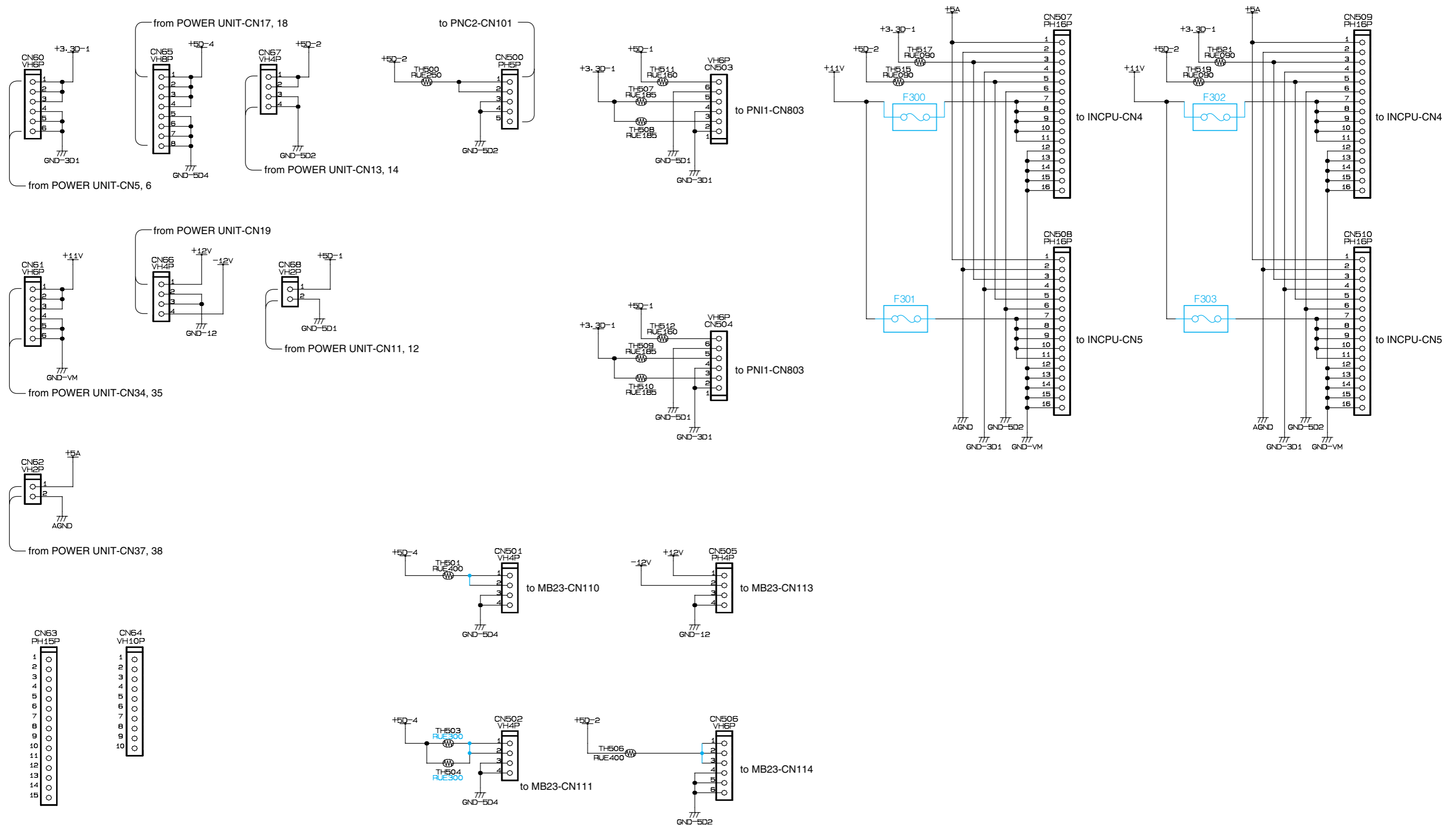




(1P): Metal Oxide Film Resistor

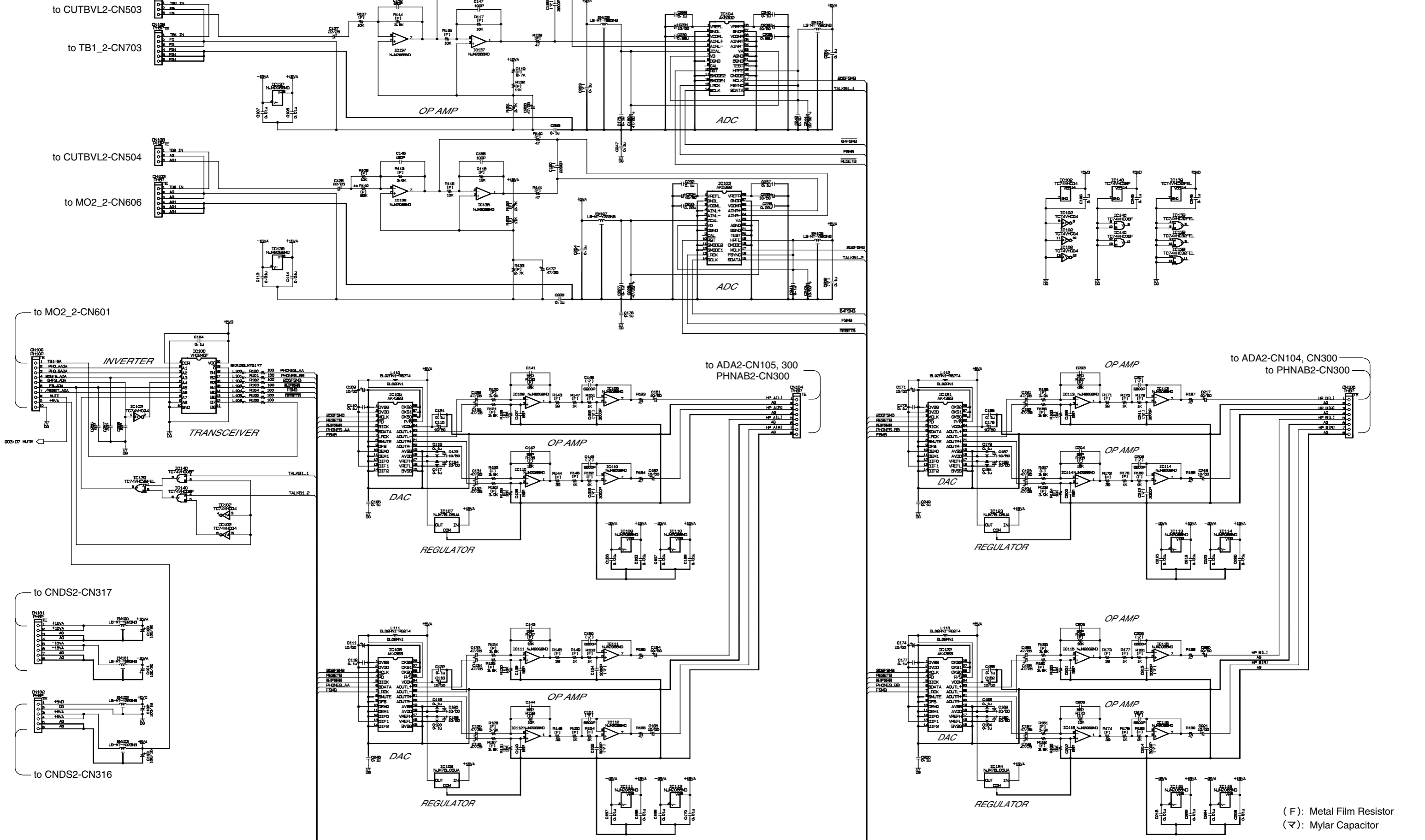
■ CNDS3 CIRCUIT DIAGRAM (CS1D)

CS1D



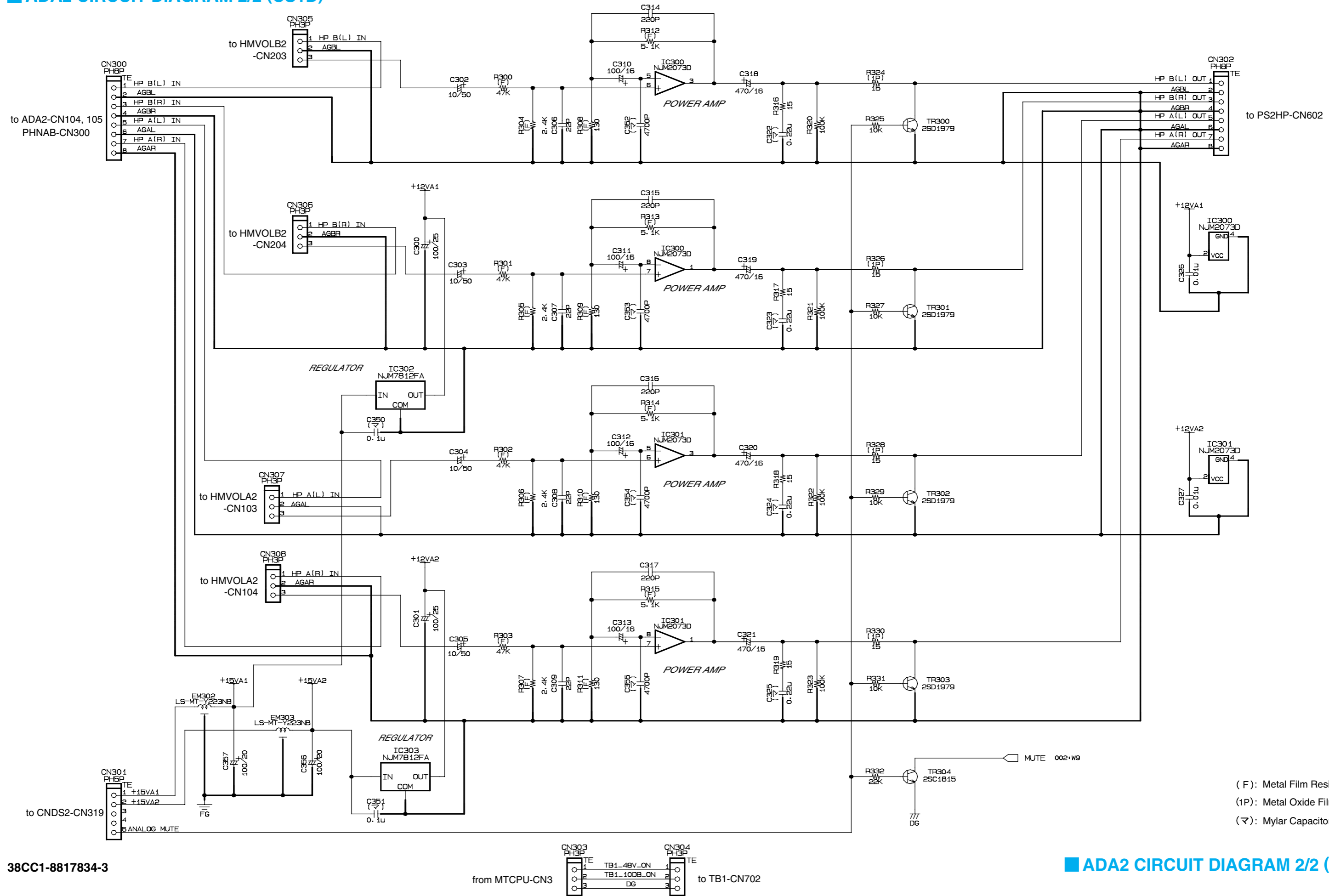
ADA2 CIRCUIT DIAGRAM 1/2 (CS1D)

CS1D



ADA2 CIRCUIT DIAGRAM 2/2 (CS1D)

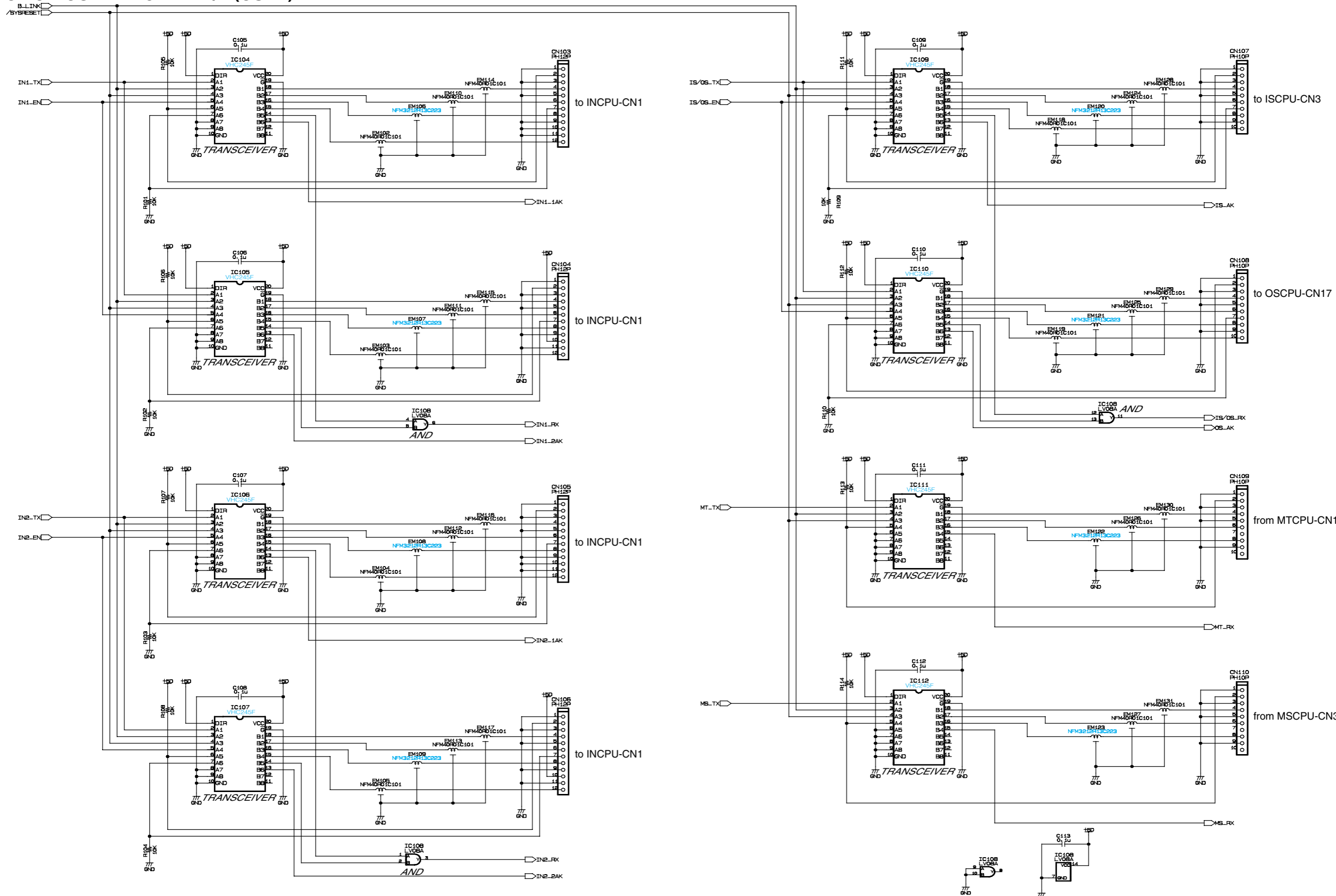
CS1D



(F): Metal Film Resistor
 (1P): Metal Oxide Film Resistor
 (M): Mylar Capacitor

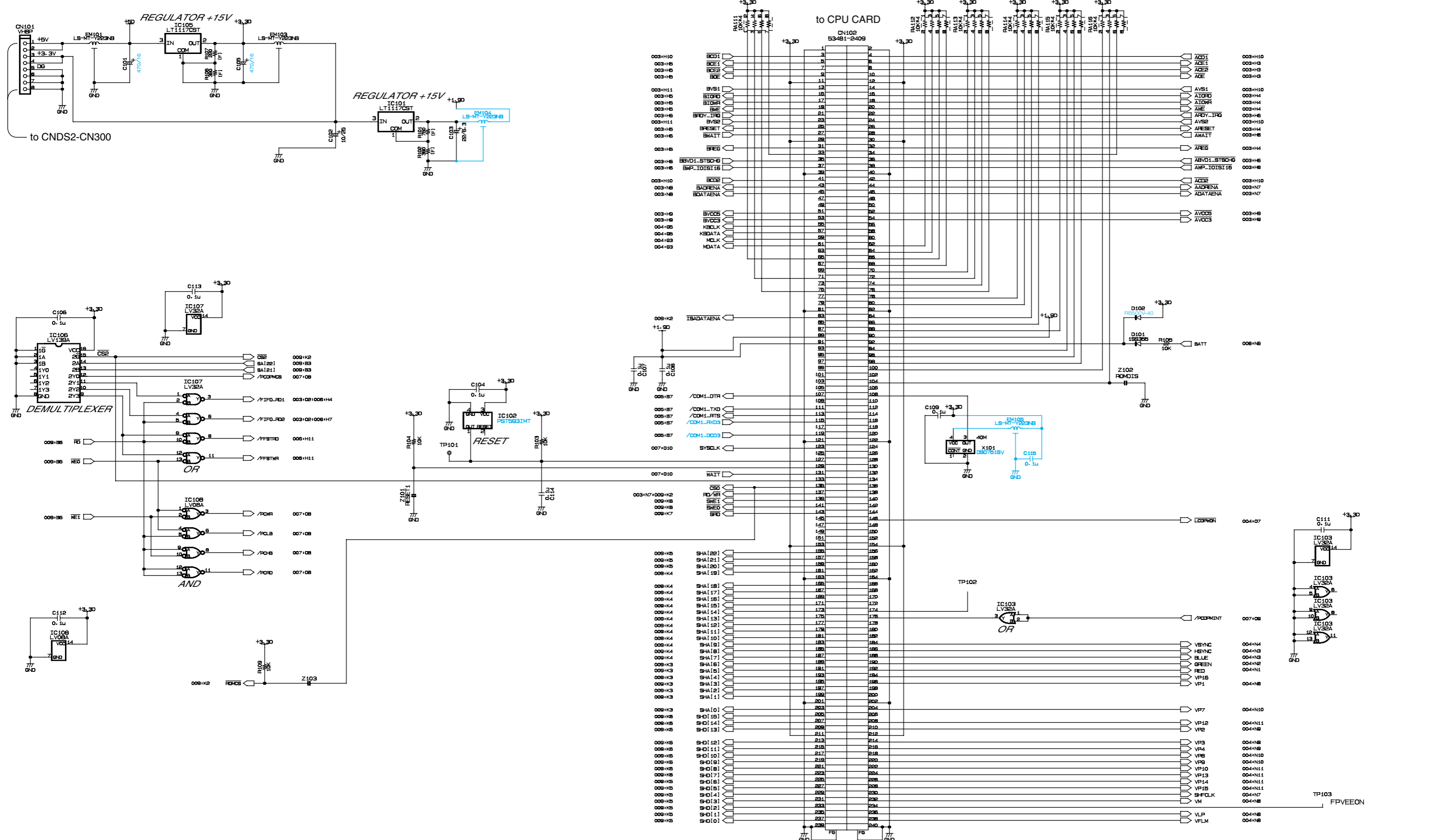
PNC2 CIRCUIT DIAGRAM 2/2 (CS1D)

CS1D



PCIF CIRCUIT DIAGRAM 002 (CS1D)

CS1D



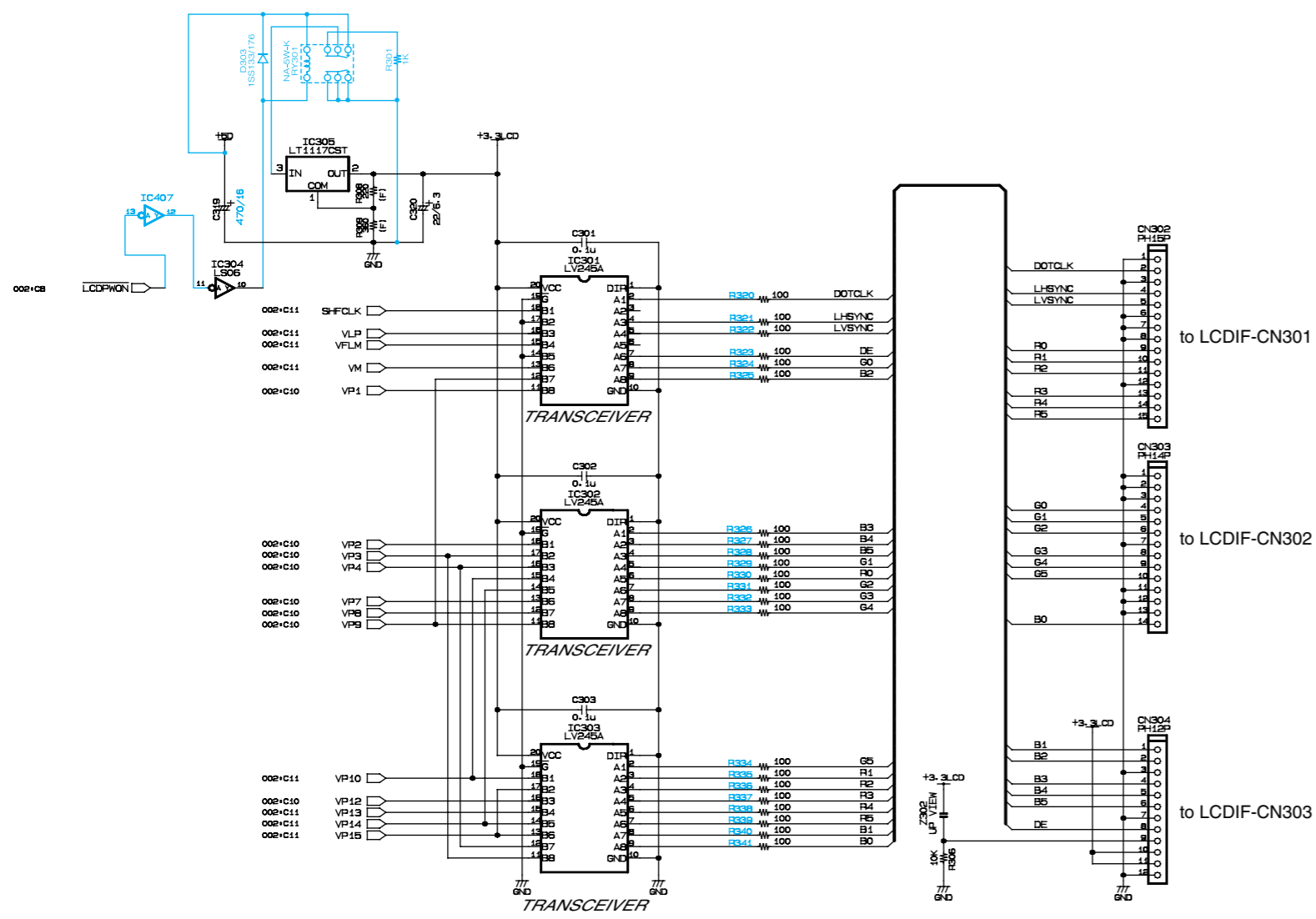
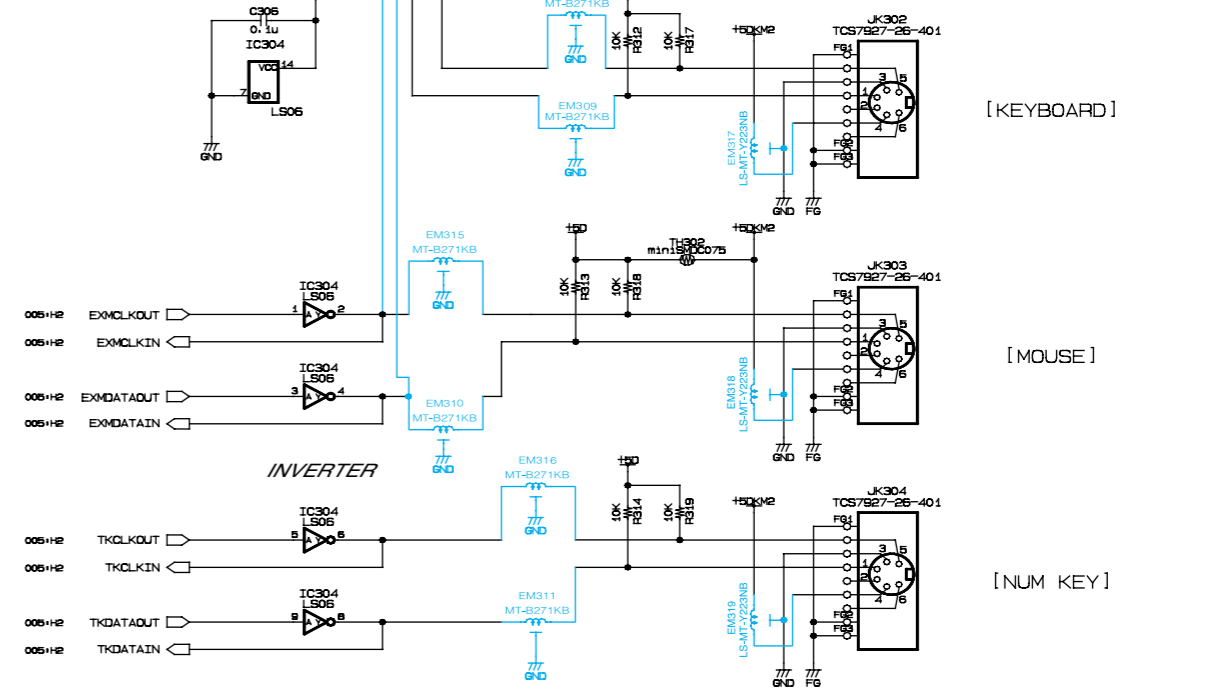
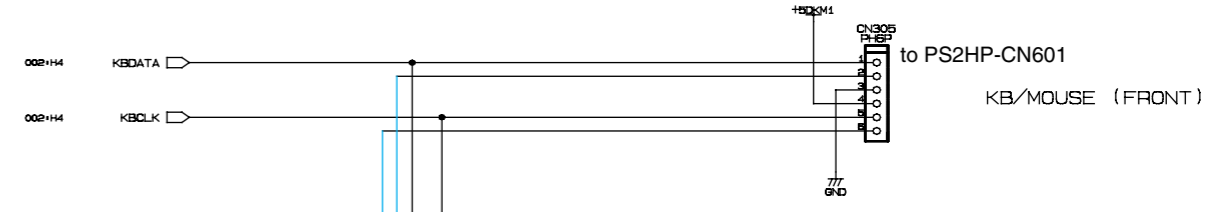
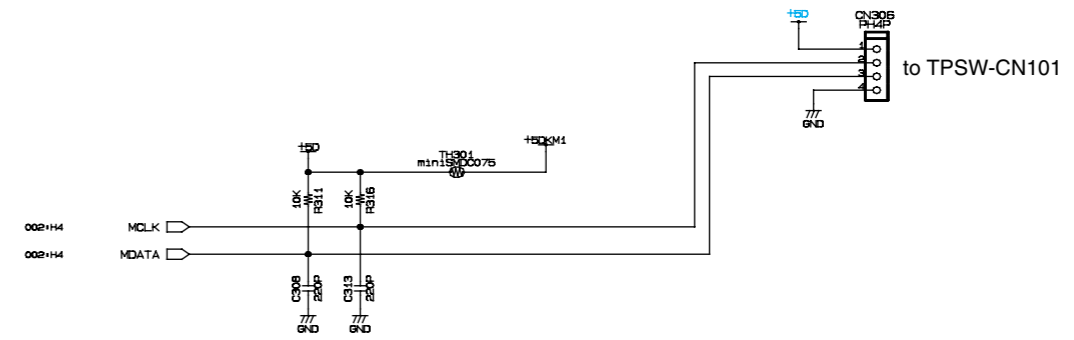
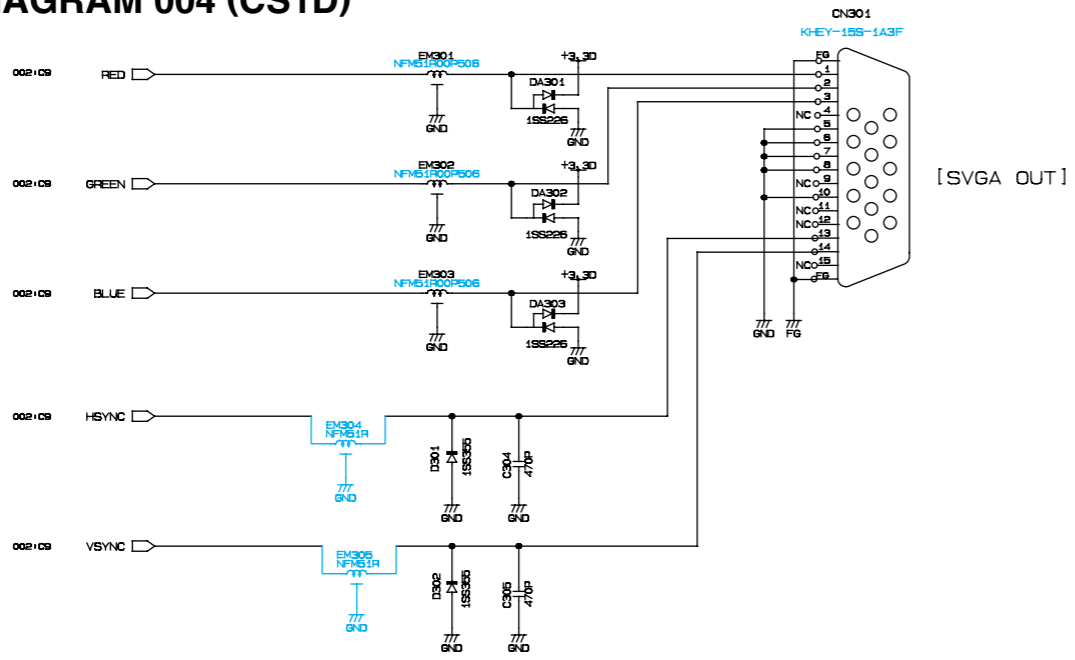
(F): Metal Film Resistor

CPU CARD I/F

PCIF CIRCUIT DIAGRAM 002 (CS1D)

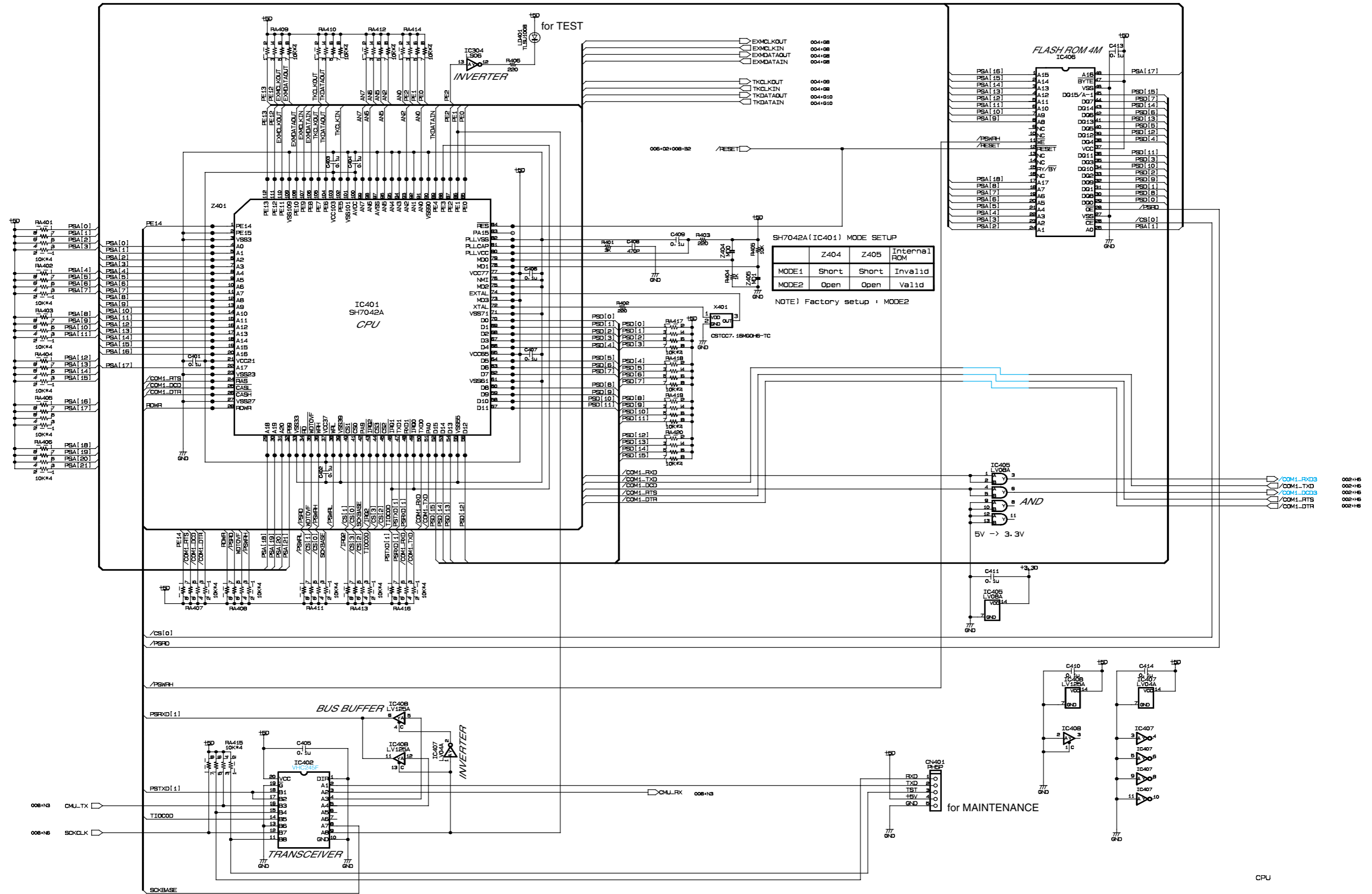
PCIF CIRCUIT DIAGRAM 004 (CS1D)

CS1D



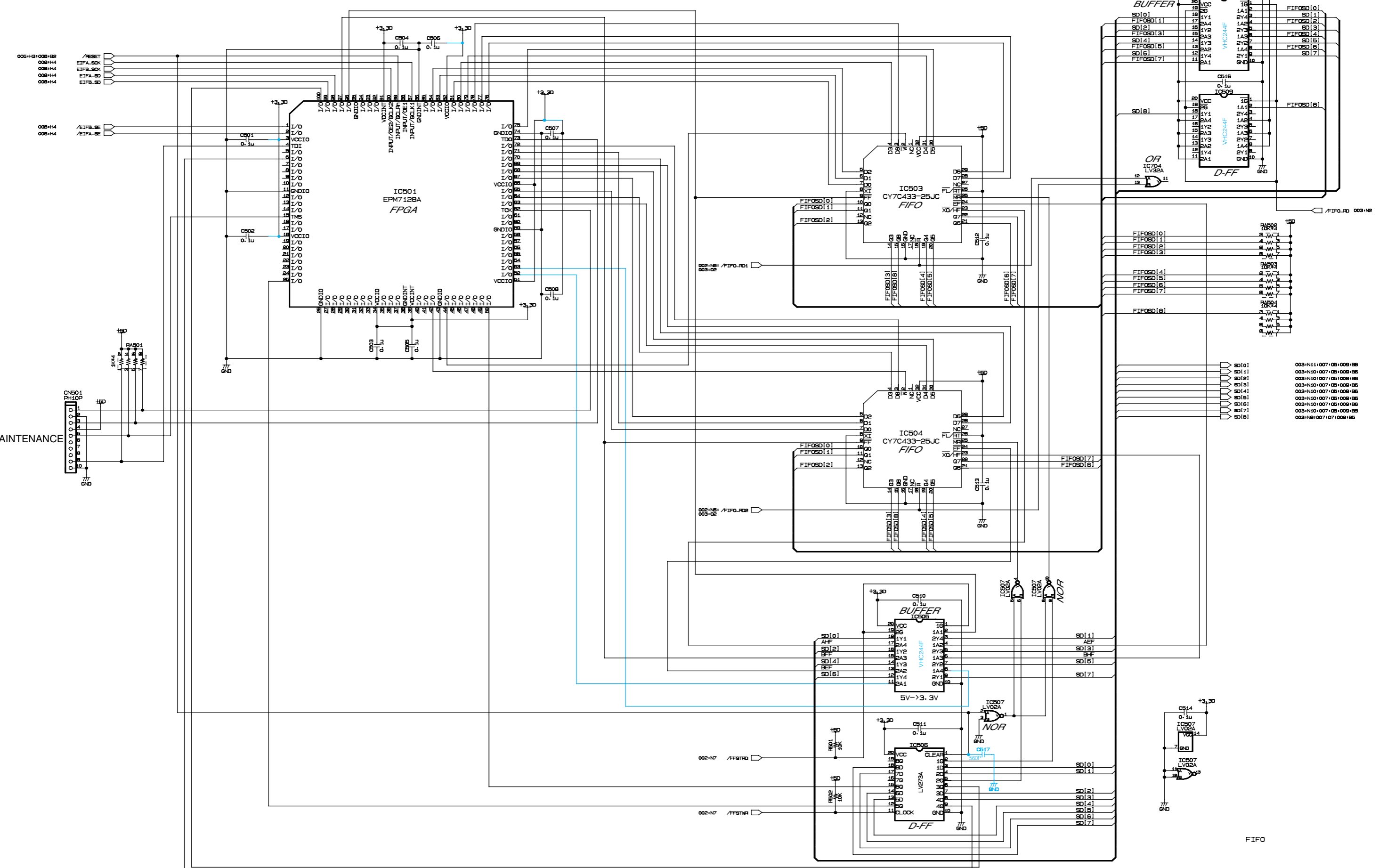
(F): Metal Film Resistor

CONNECTOR (VIDEO, LCD, MOUSE, KEYBOARD)



PCIF CIRCUIT DIAGRAM 006 (CS1D)

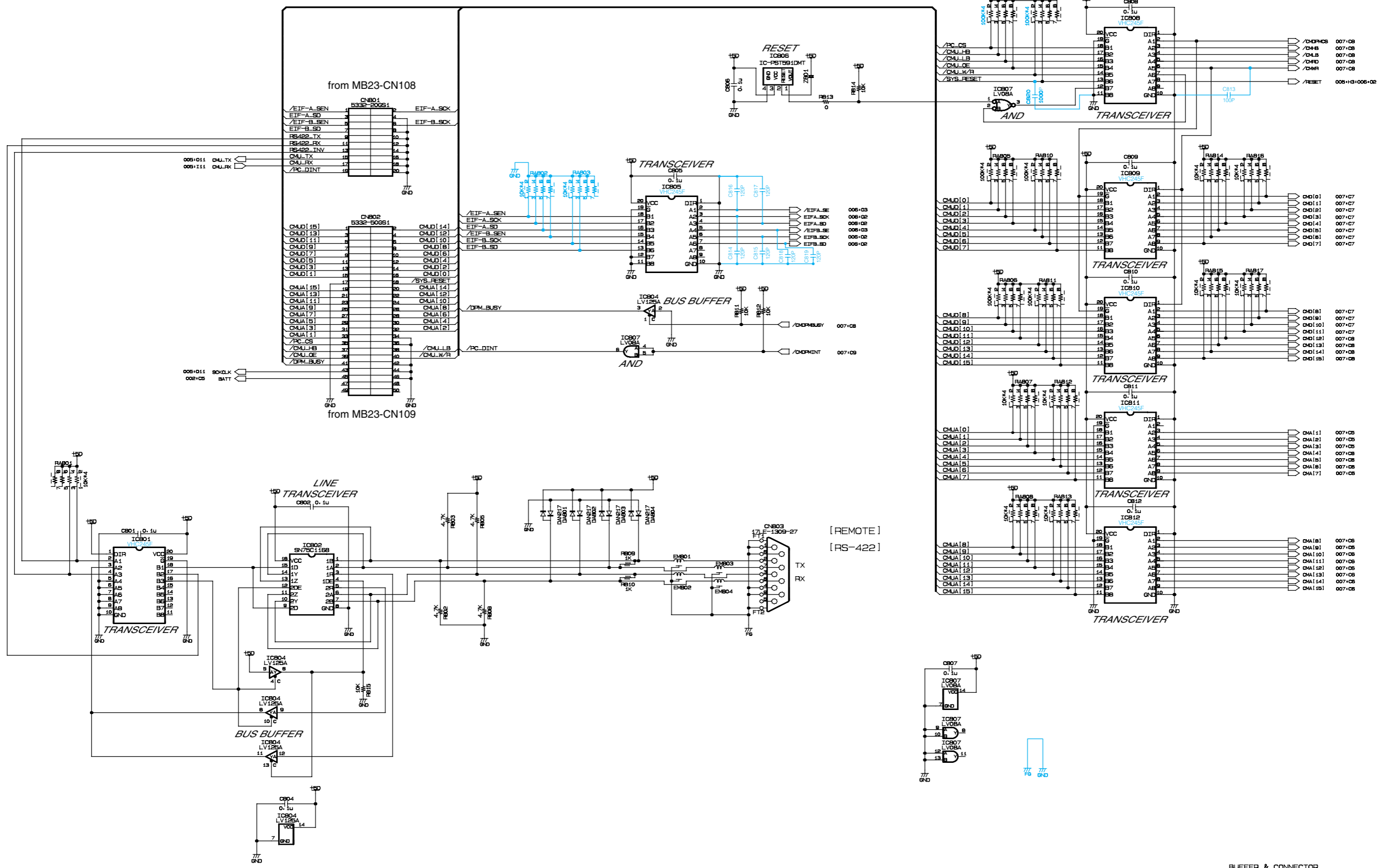
CS1D



for MAINTENANCE

SD[0] 003+N11:007:05:009:H86
 SD[1] 003+N10:007:05:009:H86
 SD[2] 003+N10:007:05:009:H86
 SD[3] 003+N10:007:05:009:H86
 SD[4] 003+N10:007:05:009:H86
 SD[5] 003+N10:007:05:009:H86
 SD[6] 003+N10:007:05:009:H86
 SD[7] 003+N10:007:05:009:H86

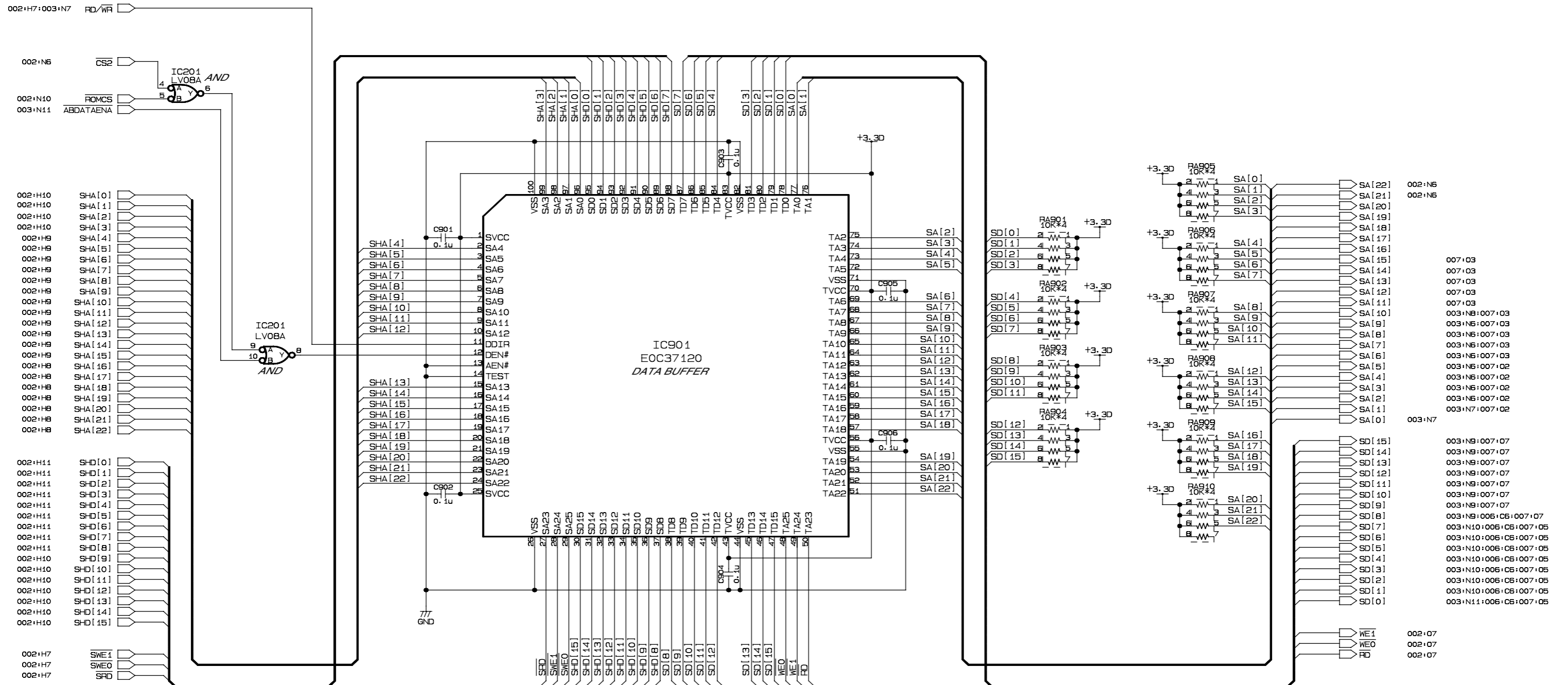
FIFO



BUFFER & CONNECTOR

PCIF CIRCUIT DIAGRAM 009 (CS1D)

CS1D



TRANSEIVER (PC CARD)

PS2HP CIRCUIT DIAGRAM (CS1D)

CS1D

1

2

3

4

5

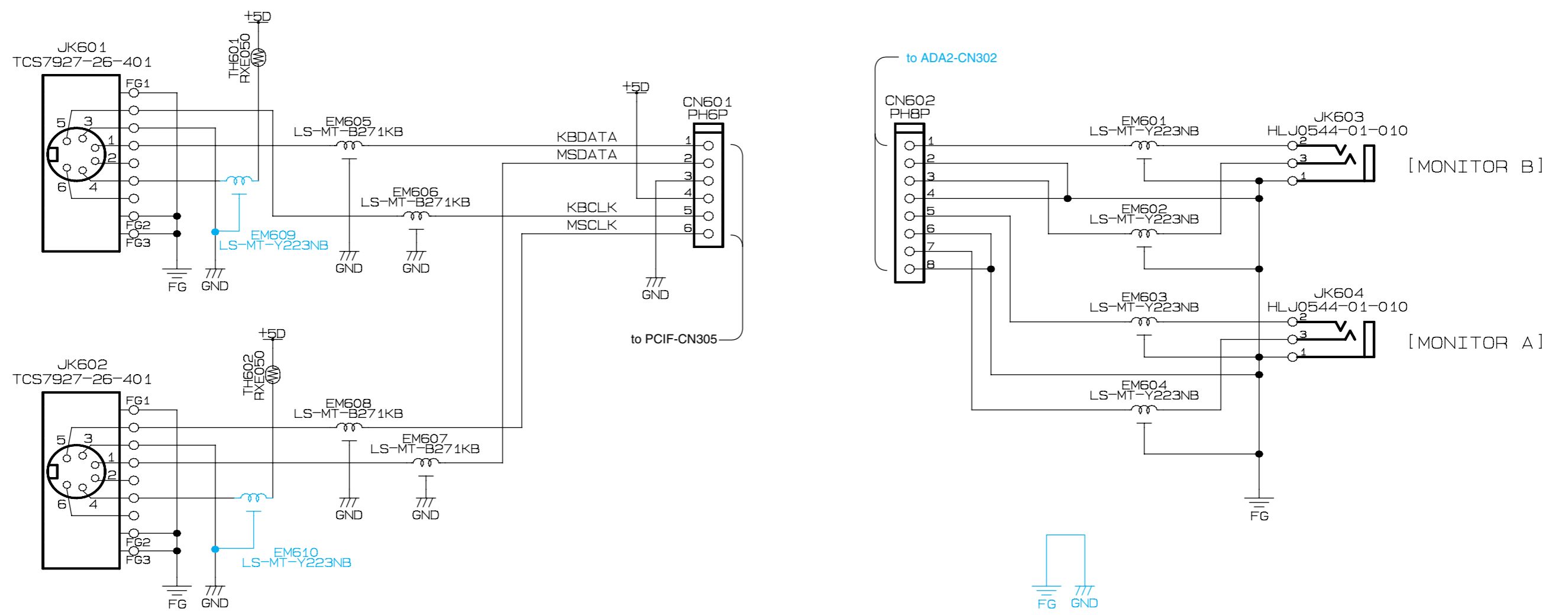
6

[KEYBOARD]

[MOUSE]

[MONITOR B]

[MONITOR A]



MT1 CIRCUIT DIAGRAM 002 (CS1D)

CS1D

1

2

3

4

5

6

7

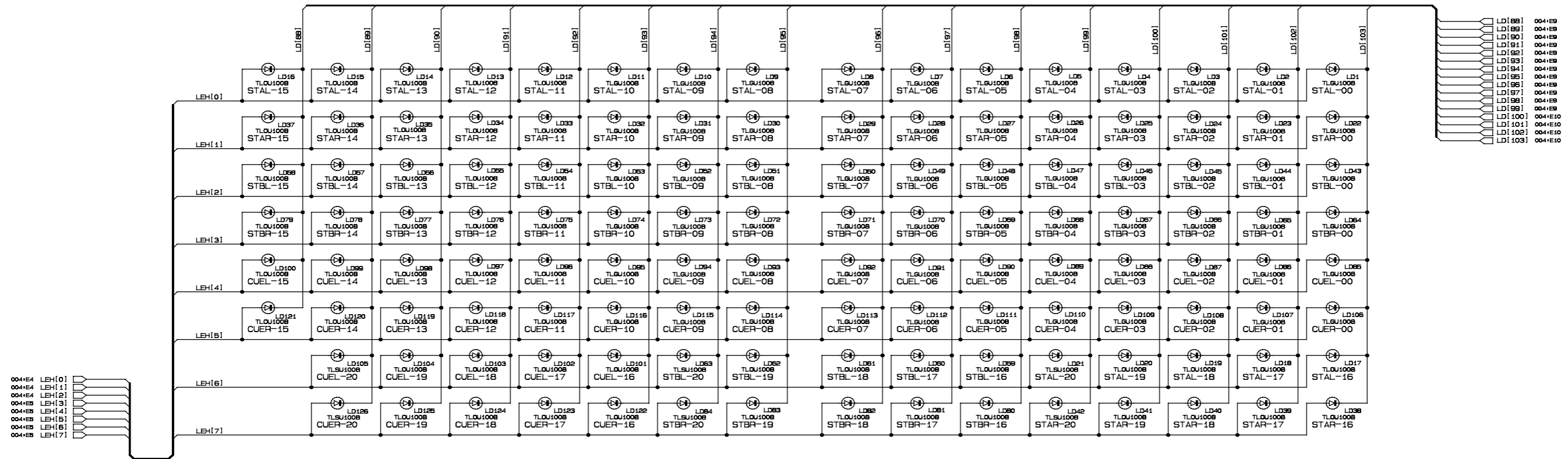
8

9

10

11

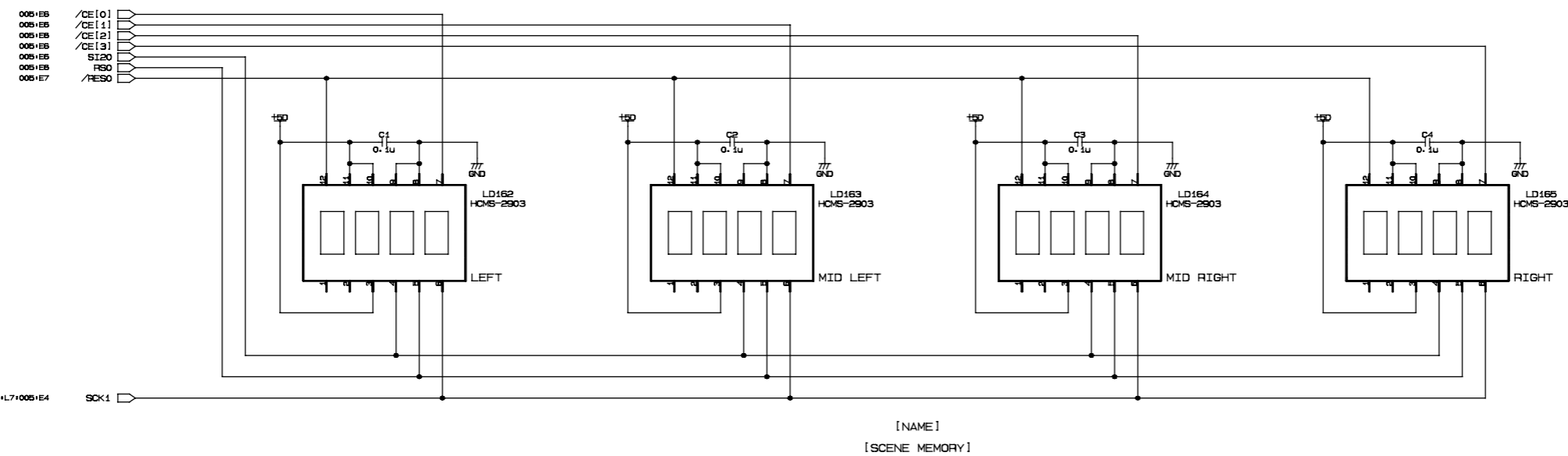
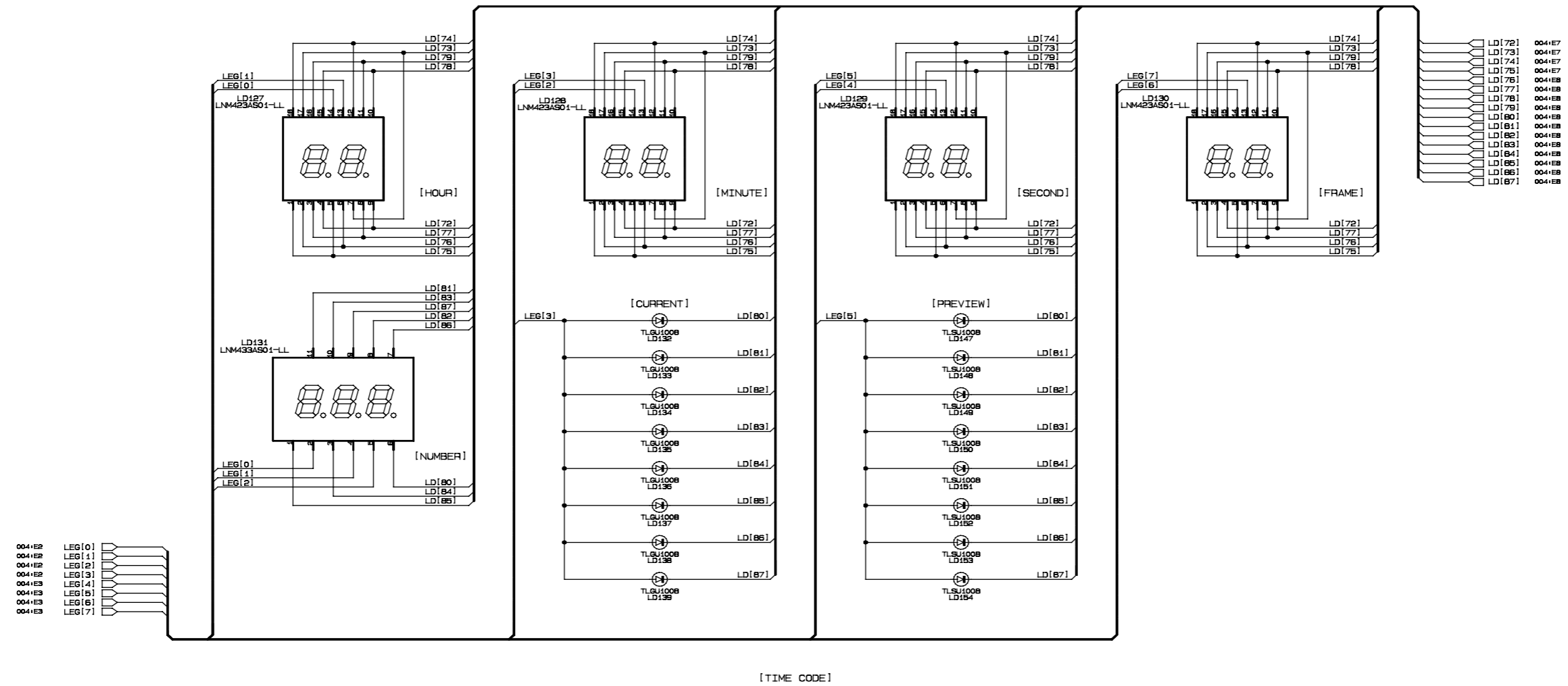
12



METER
 [STEREO A] [L][R]
 [STEREO B] [L][R]
 [CUE] [L][R]

MT1 CIRCUIT DIAGRAM 003 (CS1D)

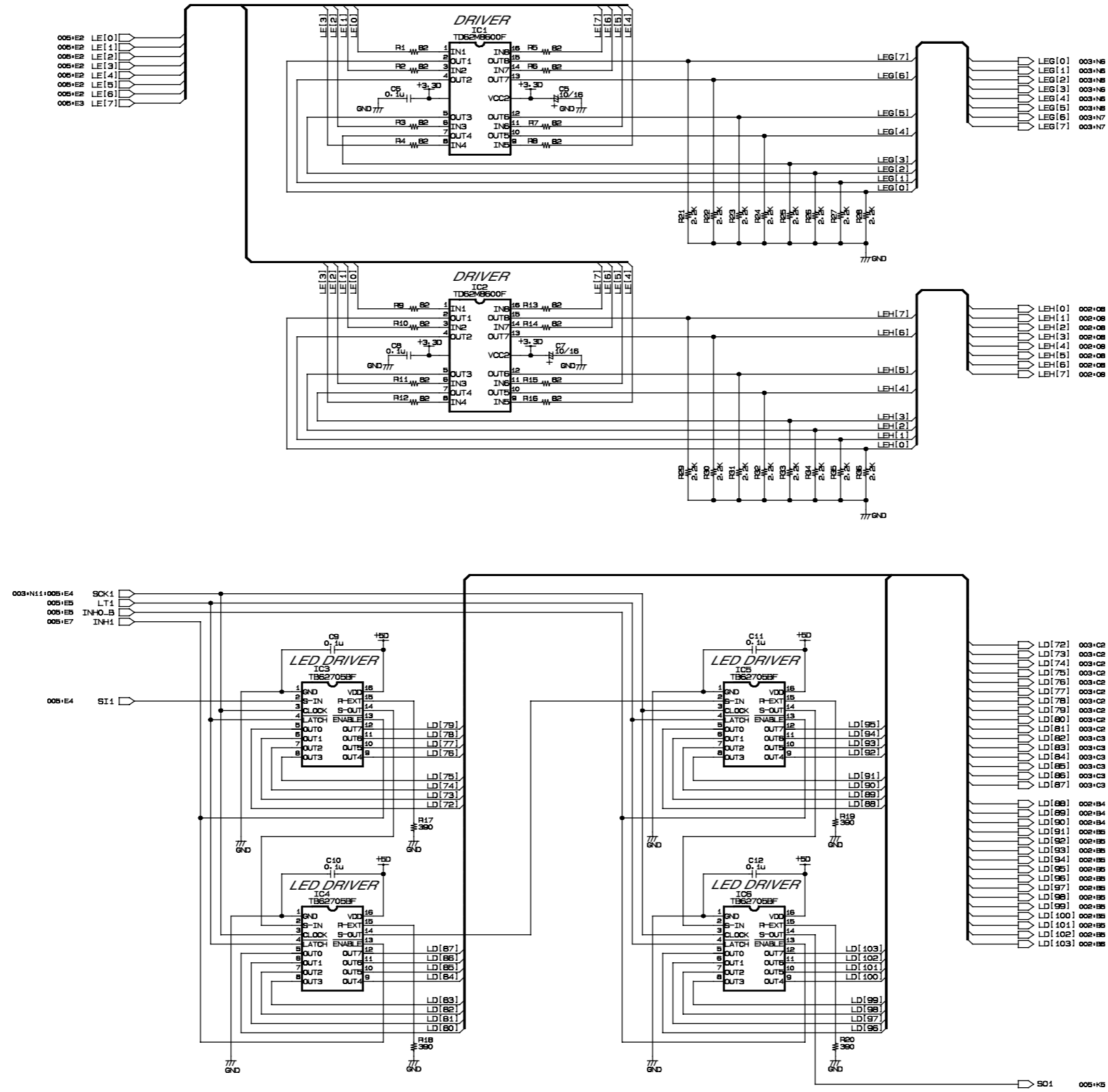
CS1D



- LD[72] 004E7
- LD[73] 004E7
- LD[74] 004E7
- LD[75] 004E7
- LD[76] 004EB
- LD[77] 004EB
- LD[78] 004EB
- LD[79] 004EB
- LD[80] 004EB
- LD[81] 004EB
- LD[82] 004EB
- LD[83] 004EB
- LD[84] 004EB
- LD[85] 004EB
- LD[86] 004EB
- LD[87] 004EB

- 004E2 LEG[0]
- 004E2 LEG[1]
- 004E2 LEG[2]
- 004E2 LEG[3]
- 004E3 LEG[4]
- 004E3 LEG[5]
- 004E3 LEG[6]
- 004E3 LEG[7]

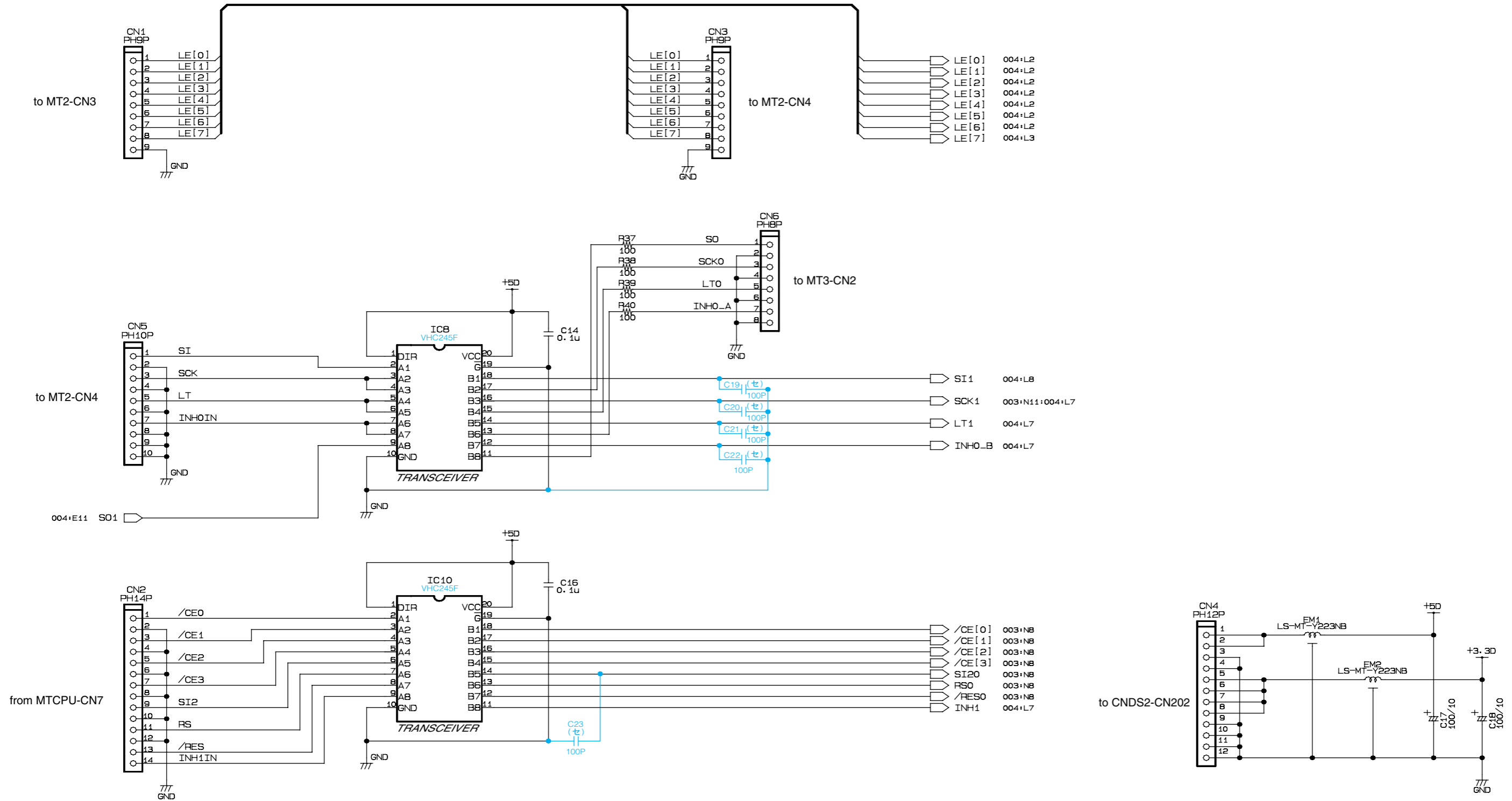
- 005EB /CE[0]
- 005EB /CE[1]
- 005EB /CE[2]
- 005EB /CE[3]
- 005EB S120
- 005EB RES0
- 005E7 /RES0



LED SOURCE DRIVER
LED SCAN DRIVER

MT1 CIRCUIT DIAGRAM 005 (CS1D)

CS1D



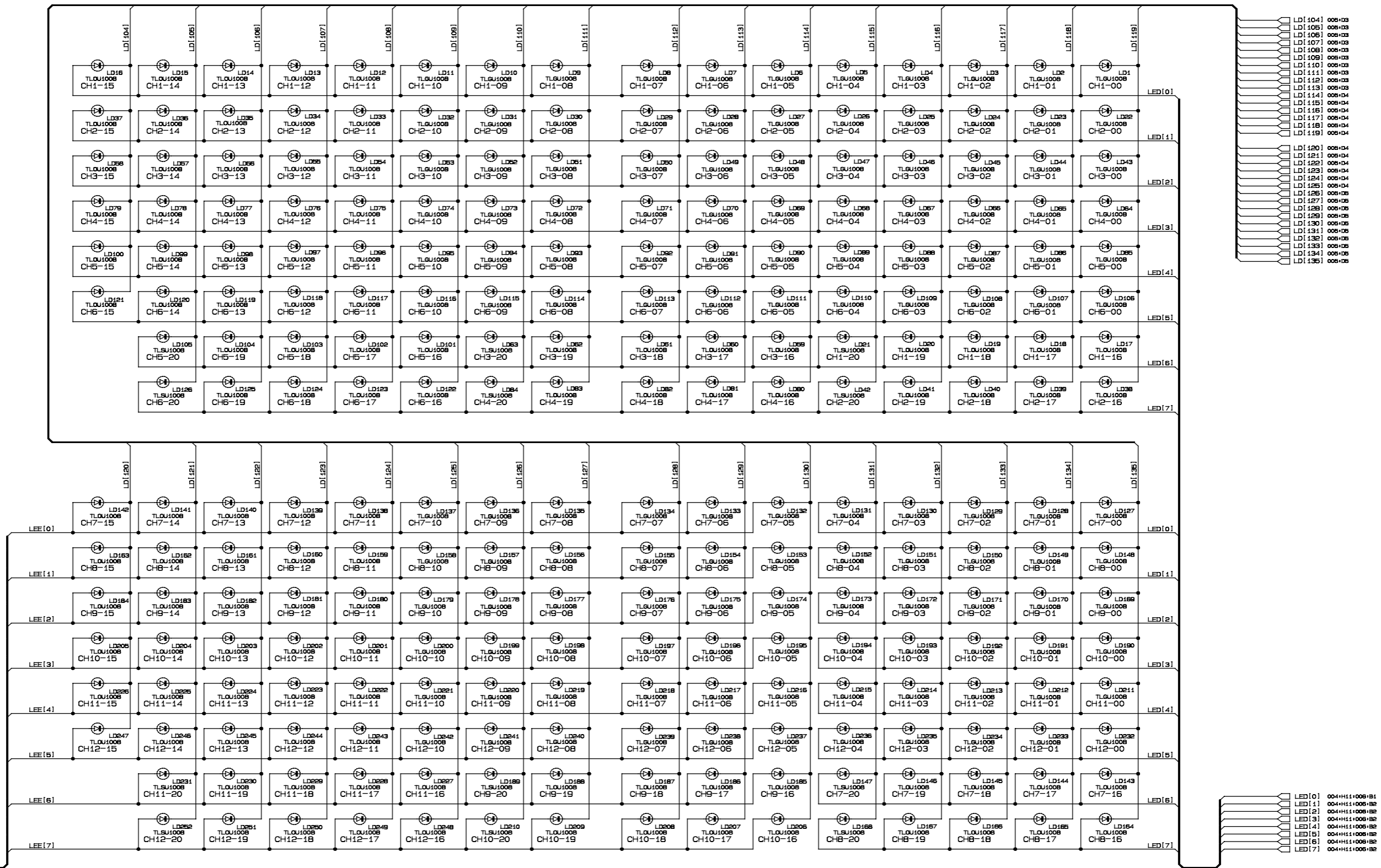
(C): Ceramic Capacitor

BUFFER & CONNECTOR

MT1 CIRCUIT DIAGRAM 005 (CS1D)

MT2, MT3 CIRCUIT DIAGRAM 002 (CS1D)

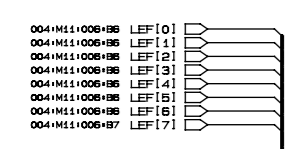
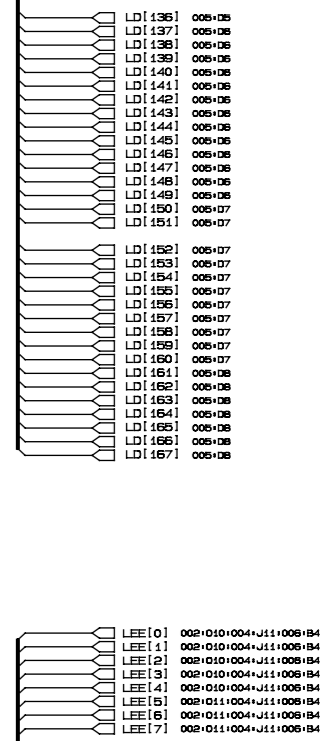
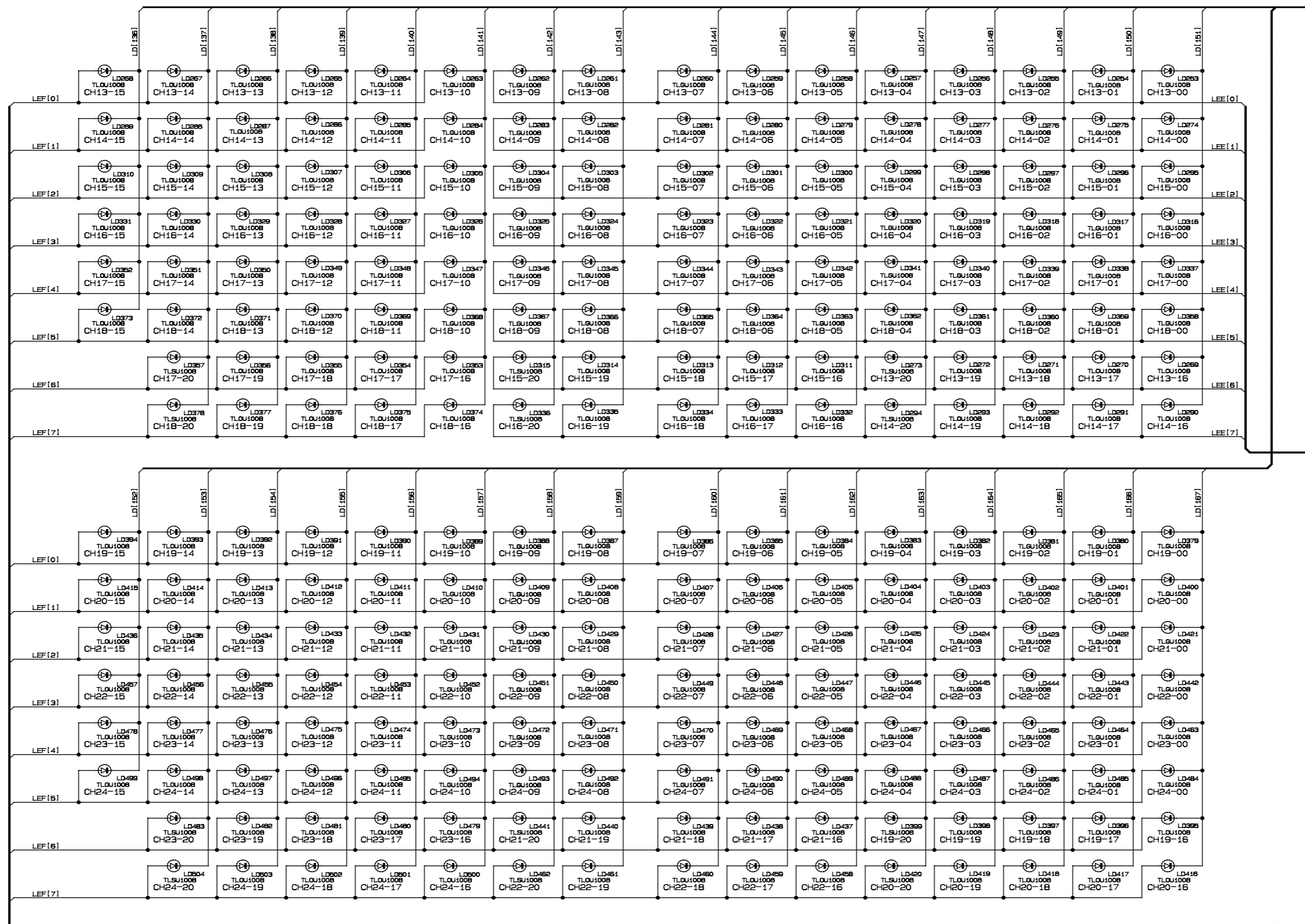
CS1D



METER
 CS MT2 [MIX OUT] [1]-[12]
 CS MT3 [MIX OUT] [25]-[36]
 [MATRIX OUT] [1]-[12]

MT2, MT3 CIRCUIT DIAGRAM 003 (CS1D)

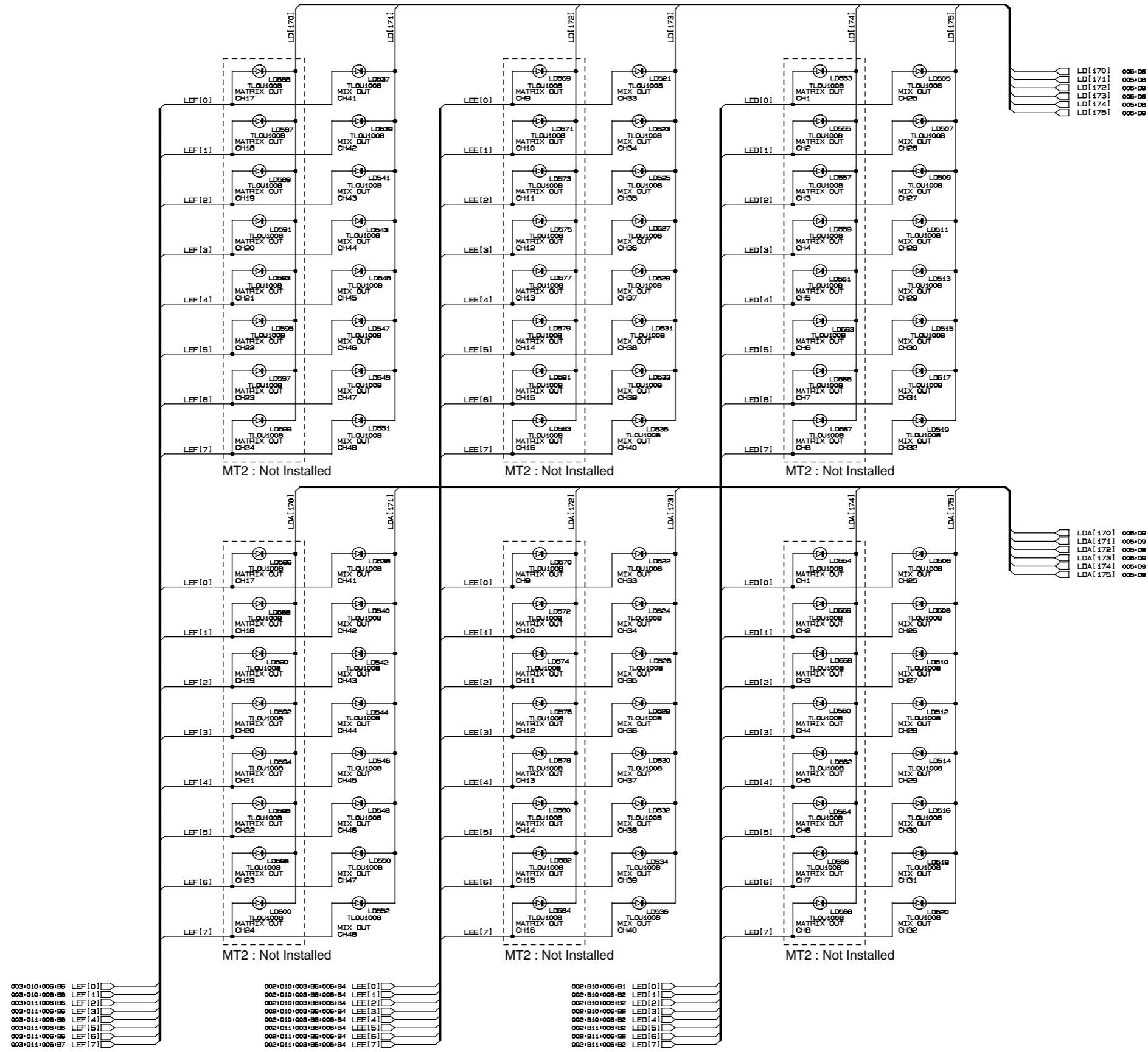
CS1D



METER
 CS MT2 [MIX OUT] [13]-[24]
 CS MT3 [MIX OUT] [37]-[48]
 [MATRIX OUT] [13]-[24]

MT2, MT3 CIRCUIT DIAGRAM 004 (CS1D)

CS1D



003*010*006*B6 LEF[0]
 003*010*006*B6 LEF[1]
 003*011*006*B6 LEF[2]
 003*011*006*B6 LEF[3]
 003*011*006*B6 LEF[4]
 003*011*006*B6 LEF[5]
 003*011*006*B6 LEF[6]
 003*011*006*B7 LEF[7]

002*010*003*B6*006*B4 LEE[0]
 002*010*003*B6*006*B4 LEE[1]
 002*010*003*B6*006*B4 LEE[2]
 002*010*003*B6*006*B4 LEE[3]
 002*010*003*B6*006*B4 LEE[4]
 002*011*003*B6*006*B4 LEE[5]
 002*011*003*B6*006*B4 LEE[6]
 002*011*003*B6*006*B4 LEE[7]

002*B10*006*B1 LED[0]
 002*B10*006*B2 LED[1]
 002*B10*006*B2 LED[2]
 002*B10*006*B2 LED[3]
 002*B10*006*B2 LED[4]
 002*B11*006*B2 LED[5]
 002*B11*006*B2 LED[6]
 002*B11*006*B2 LED[7]

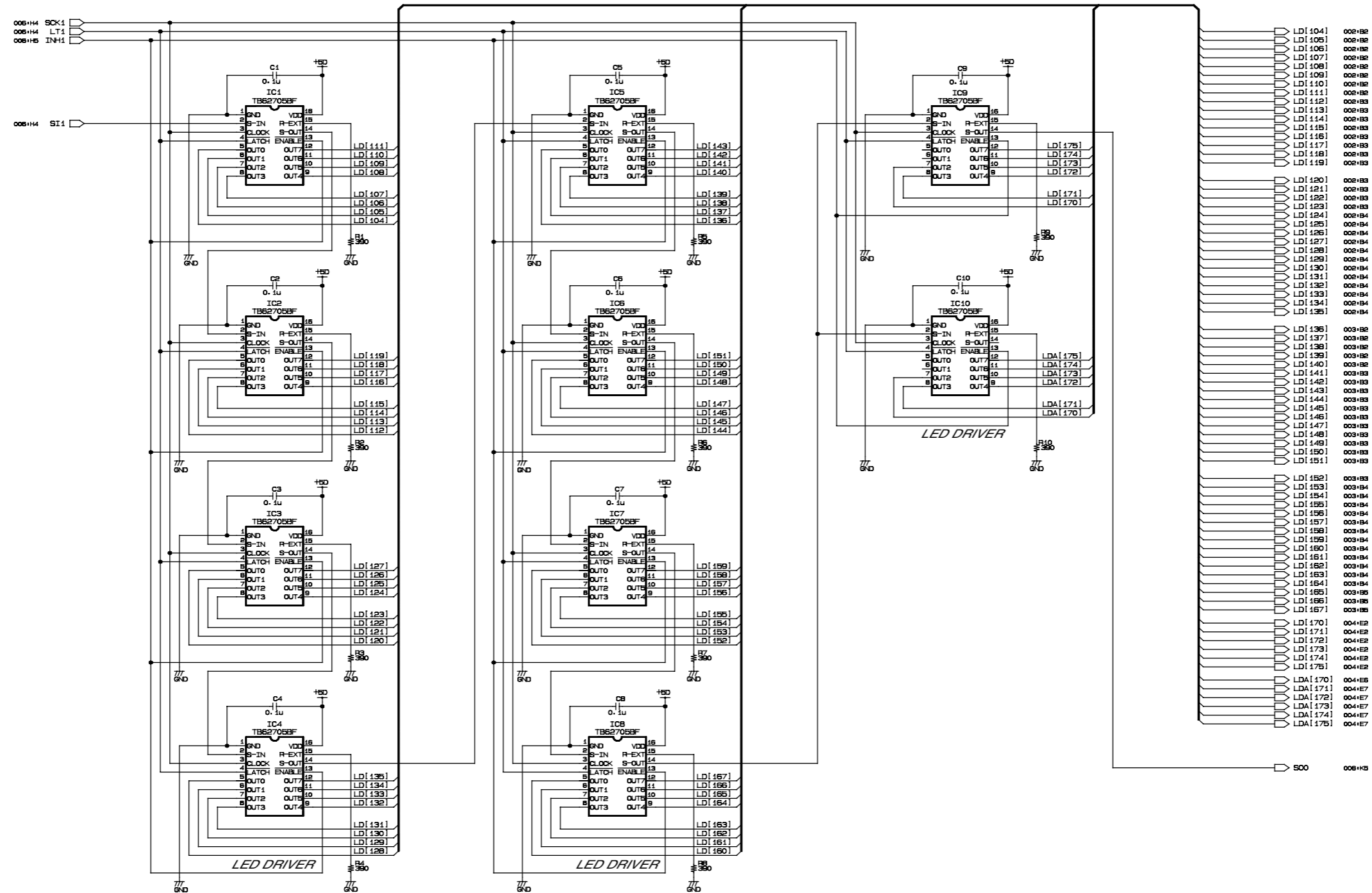
LD1[170] 006*06
 LD1[171] 006*06
 LD1[172] 006*06
 LD1[173] 006*06
 LD1[174] 006*06
 LD1[175] 006*06

LDA[170] 006*06
 LDA[171] 006*06
 LDA[172] 006*06
 LDA[173] 006*06
 LDA[174] 006*06
 LDA[175] 006*06

METER CH NUMBER
 CS MT2 [MIX OUT] [1]-[12]
 CS MT3 [MIX OUT] [25]-[36]
 [MATRIX OUT] [1]-[12]

MT2, MT3 CIRCUIT DIAGRAM 005 (CS1D)

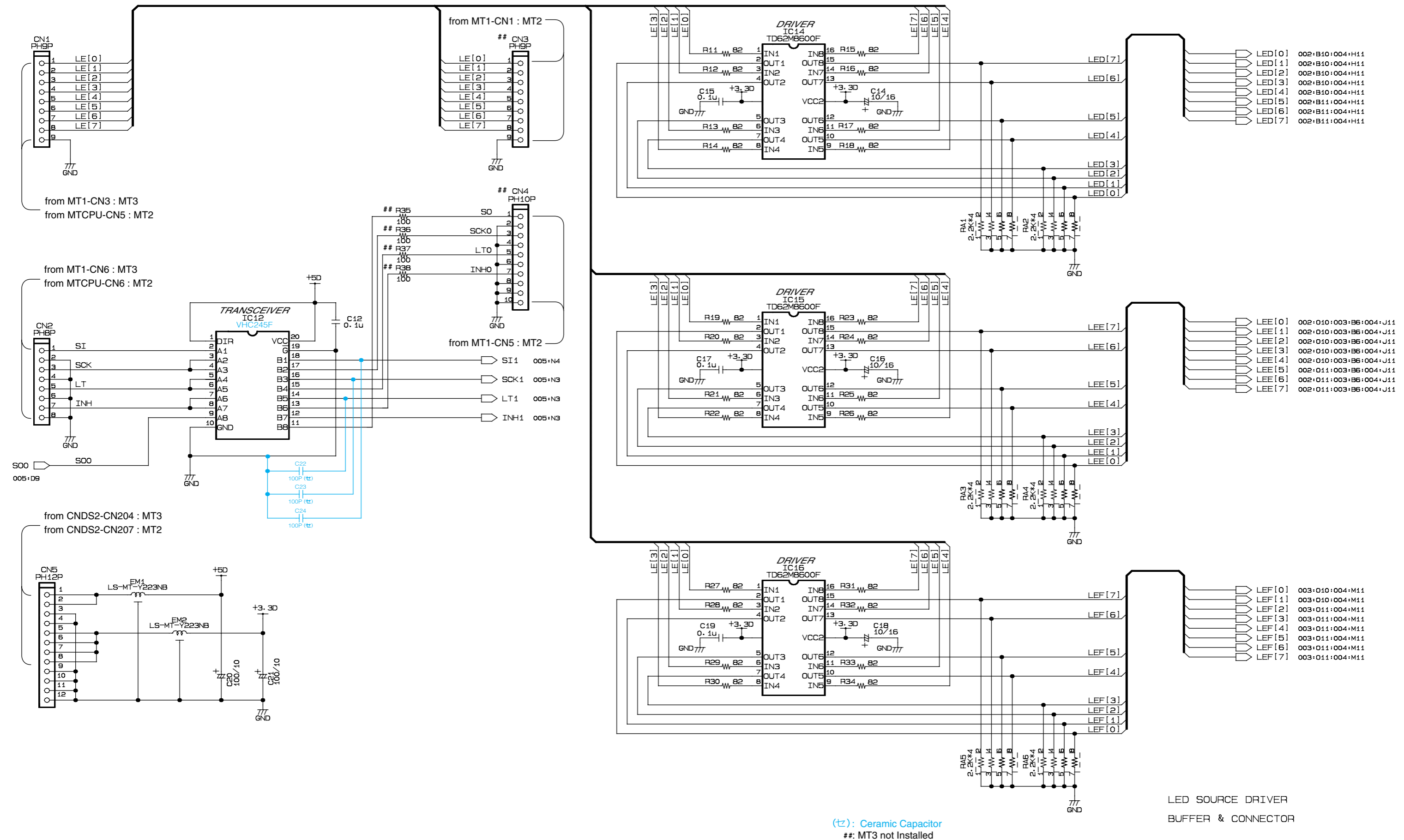
CS1D



LED SCAN DRIVER

■ MT2, MT3 CIRCUIT DIAGRAM 006 (CS1D)

CS1D



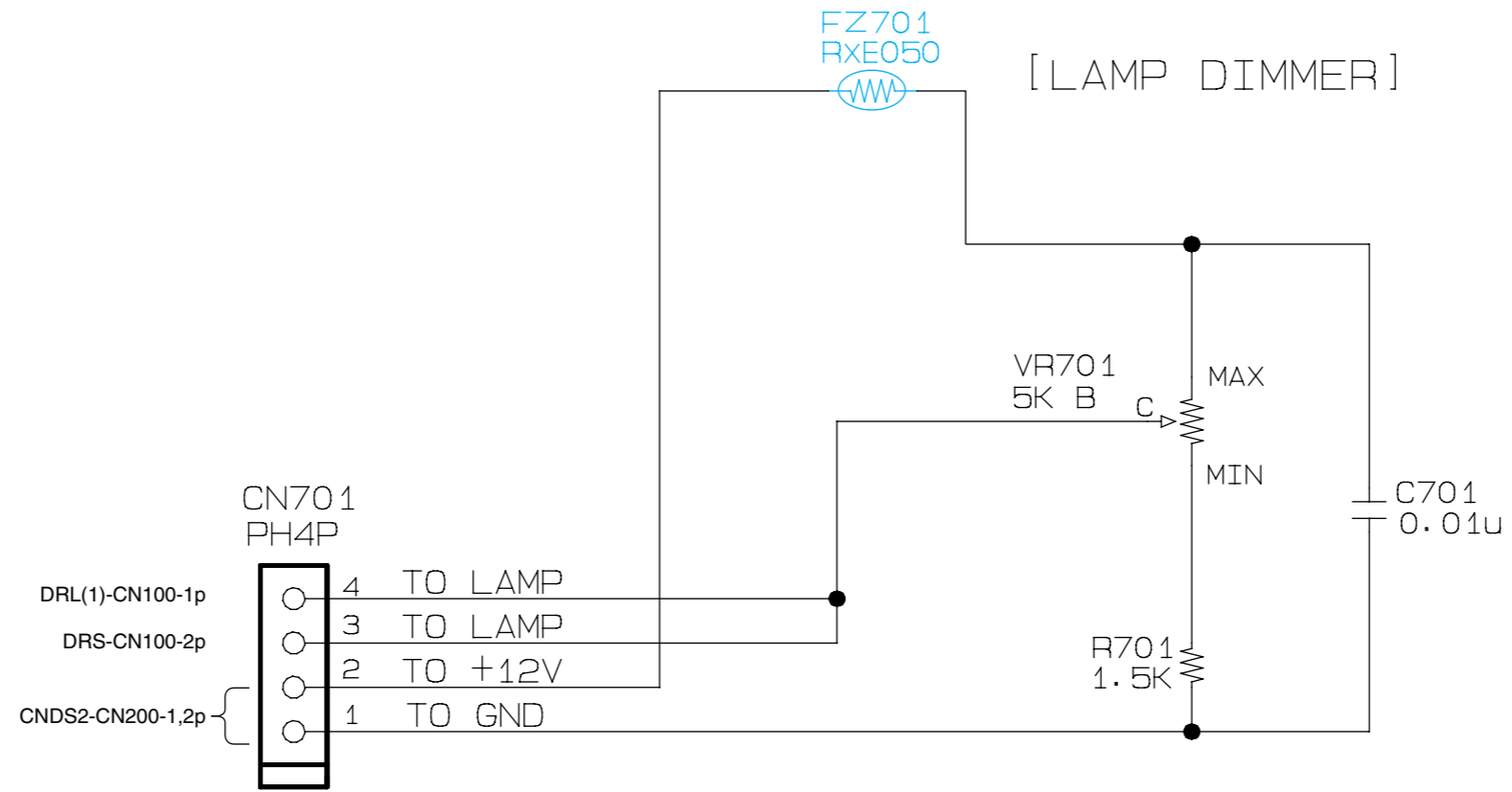
(t): Ceramic Capacitor
#: MT3 not Installed

LED SOURCE DRIVER
BUFFER & CONNECTOR

■ MT2, MT3 CIRCUIT DIAGRAM 006 (CS1D)

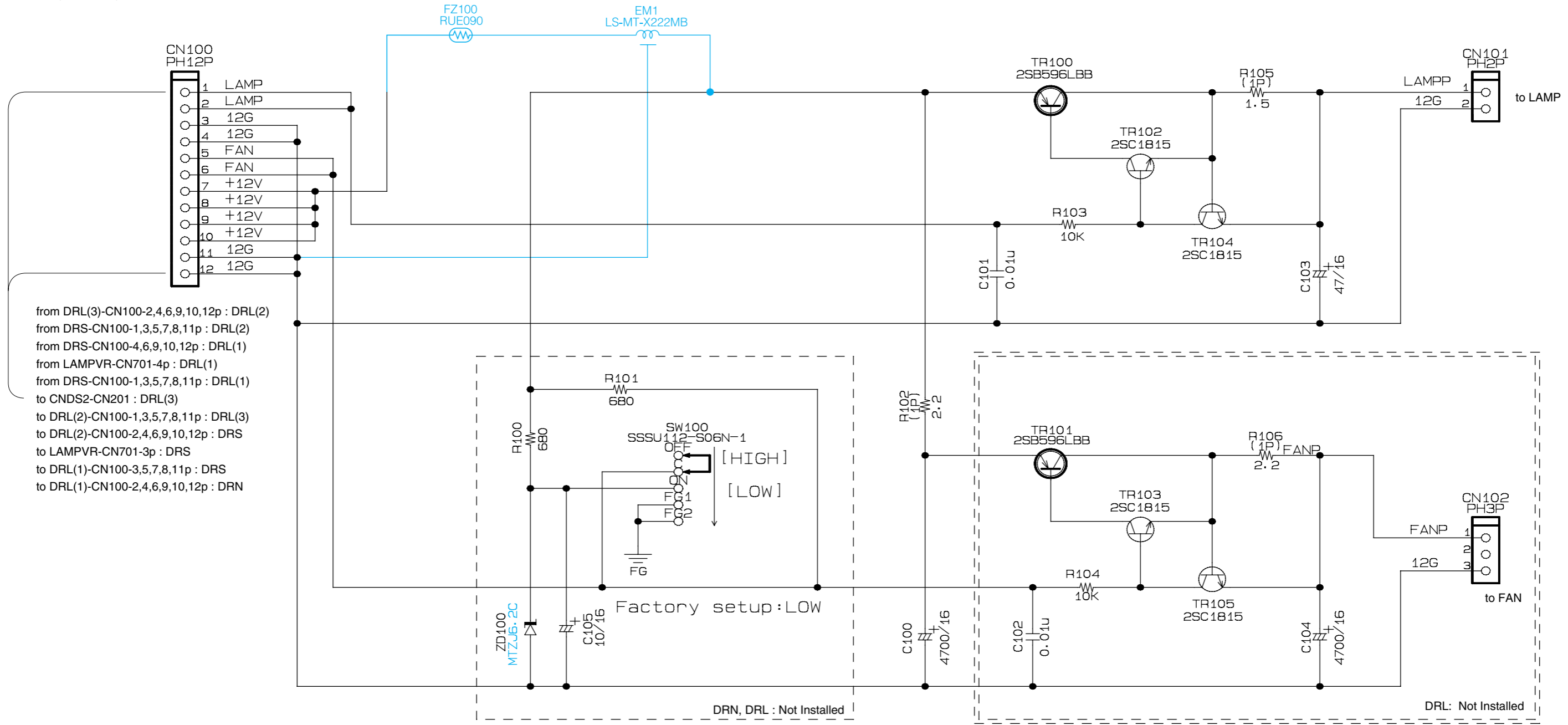
LAMPVR CIRCUIT DIAGRAM (CS1D)

CS1D



DRS, DRN, DRL CIRCUIT DIAGRAM (CS1D)

CS1D

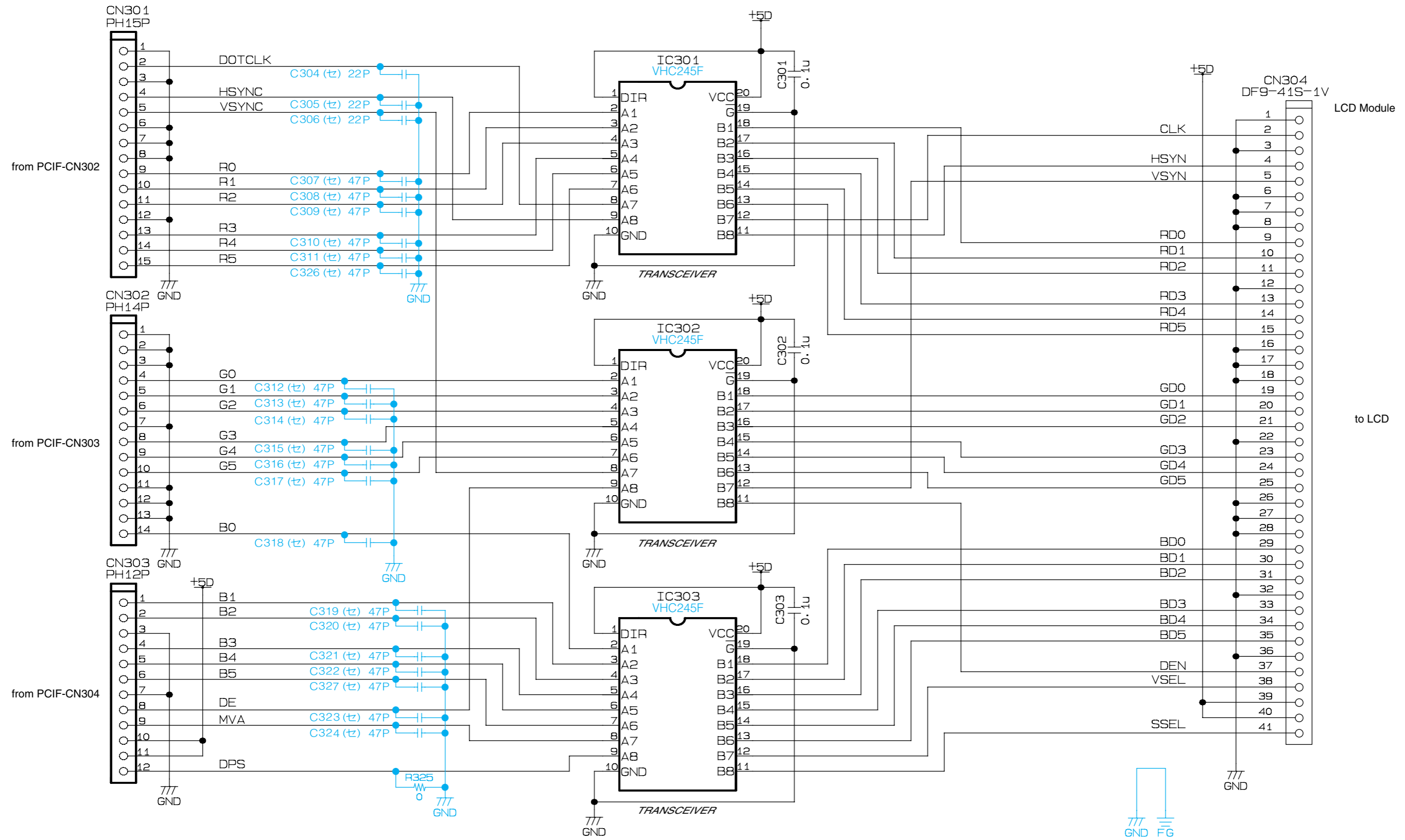


from DRL(3)-CN100-2,4,6,9,10,12p : DRL(2)
 from DRS-CN100-1,3,5,7,8,11p : DRL(2)
 from DRS-CN100-4,6,9,10,12p : DRL(1)
 from LAMPVR-CN701-4p : DRL(1)
 from DRS-CN100-1,3,5,7,8,11p : DRL(1)
 to CNDS2-CN201 : DRL(3)
 to DRL(2)-CN100-1,3,5,7,8,11p : DRL(3)
 to DRL(2)-CN100-2,4,6,9,10,12p : DRS
 to LAMPVR-CN701-3p : DRS
 to DRL(1)-CN100-3,5,7,8,11p : DRS
 to DRL(1)-CN100-2,4,6,9,10,12p : DRN

(1P) : Metal Oxide Film Resistor

■ LCDIF CIRCUIT DIAGRAM (CS1D)

CS1D



(t): Ceramic Capacitor

■ LCDC CIRCUIT DIAGRAM (CS1D)

CS1D

1

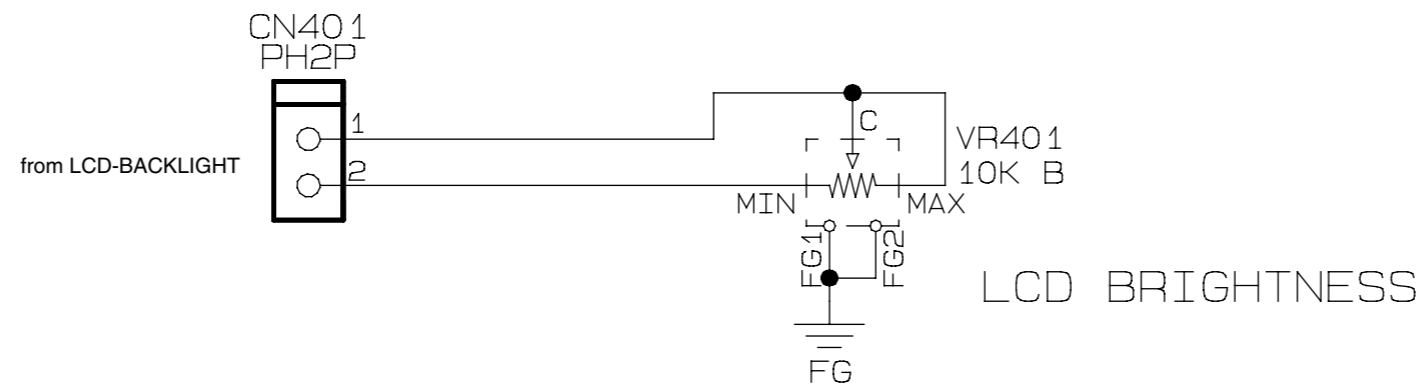
2

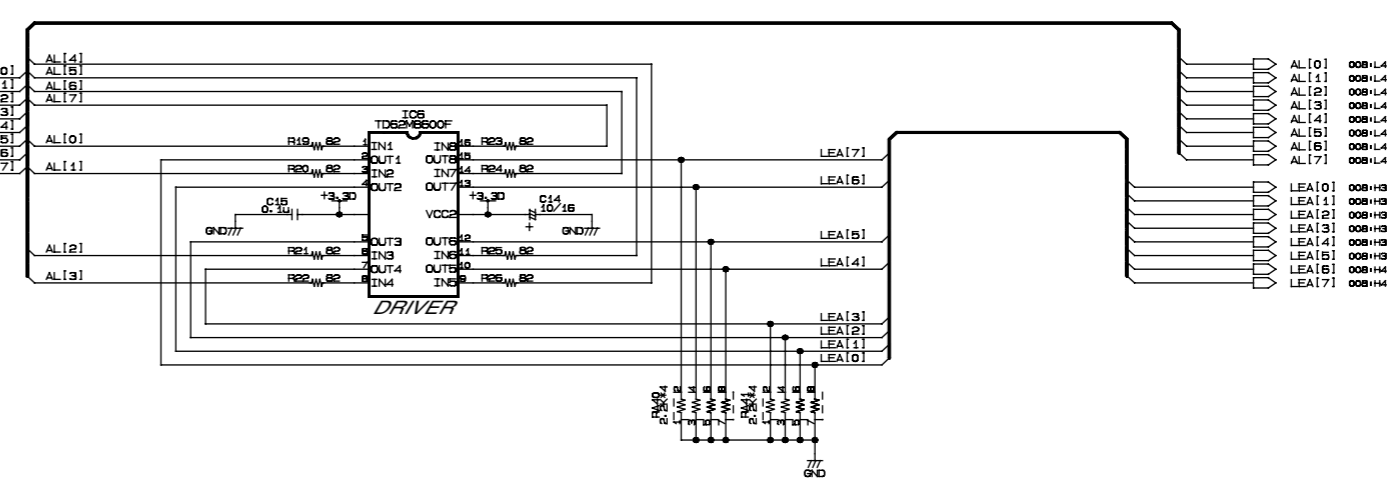
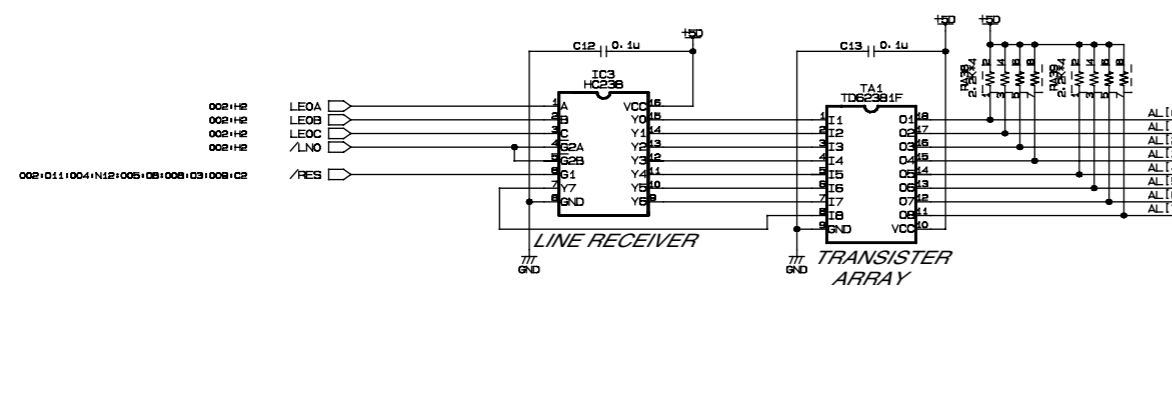
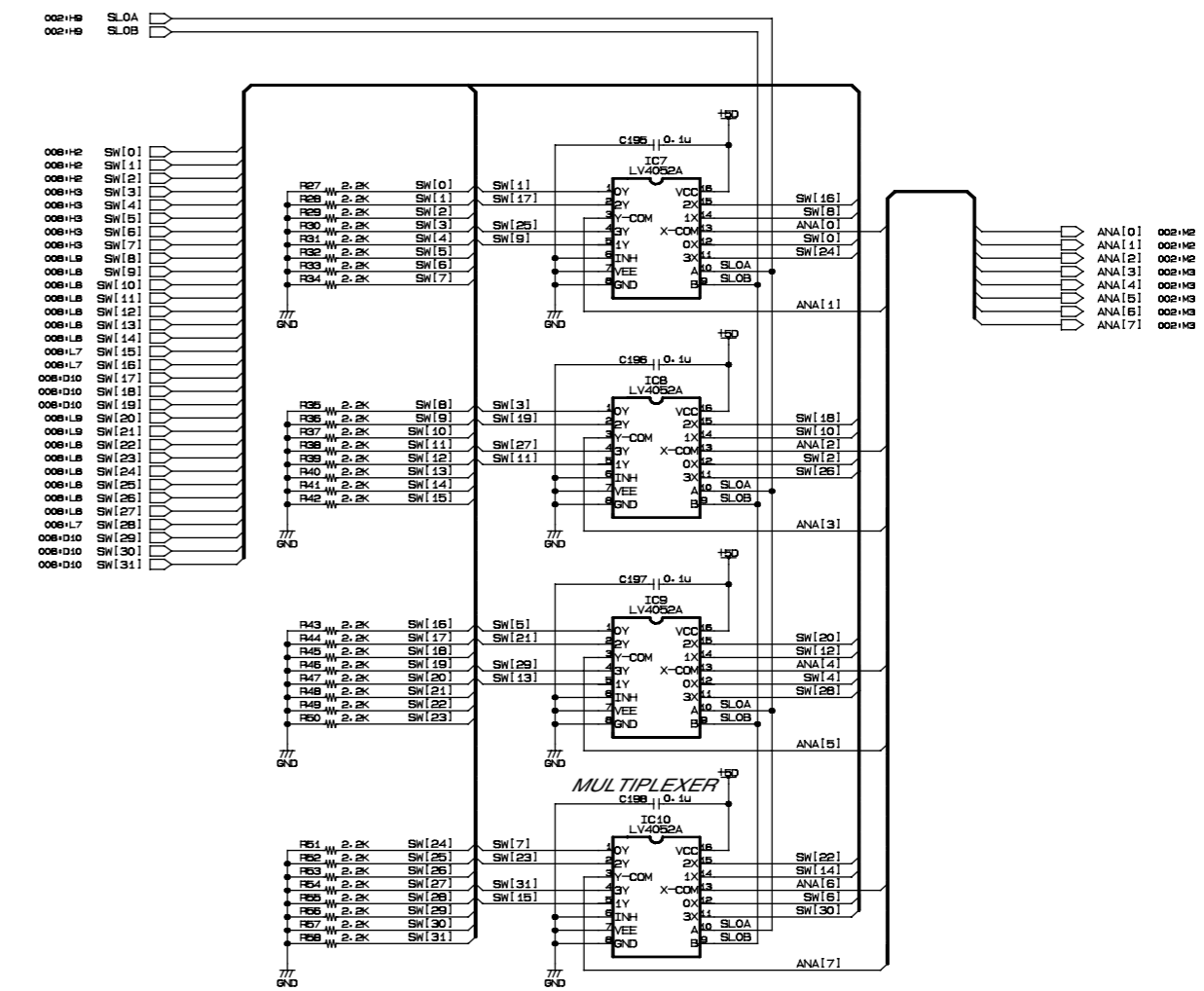
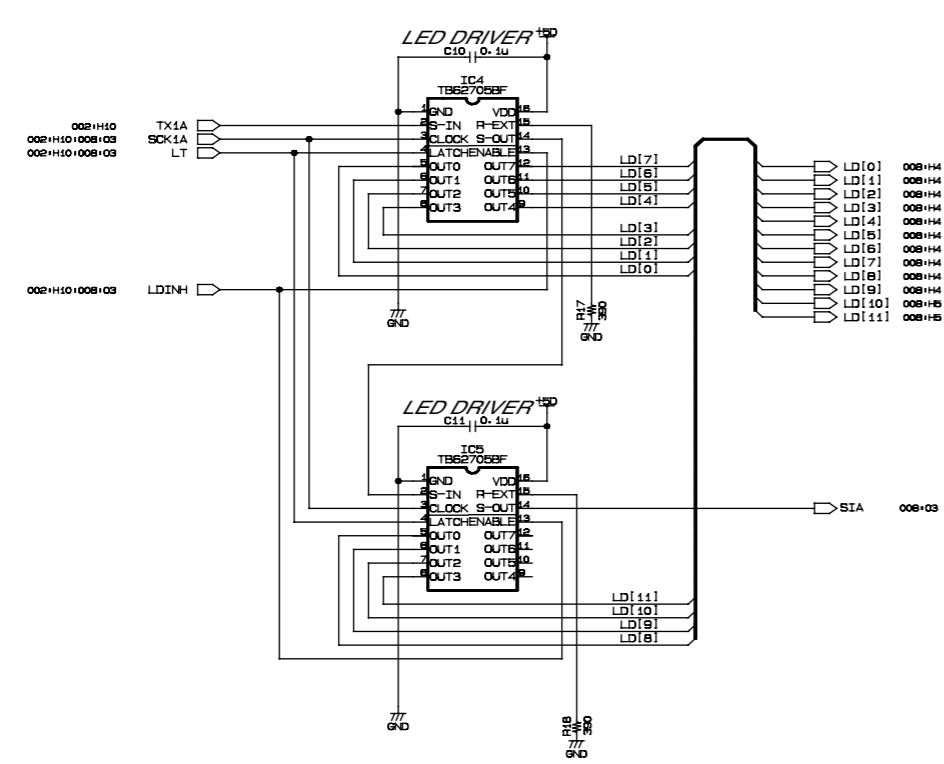
3

4

5

6





LINE DRIVER SELECTOR

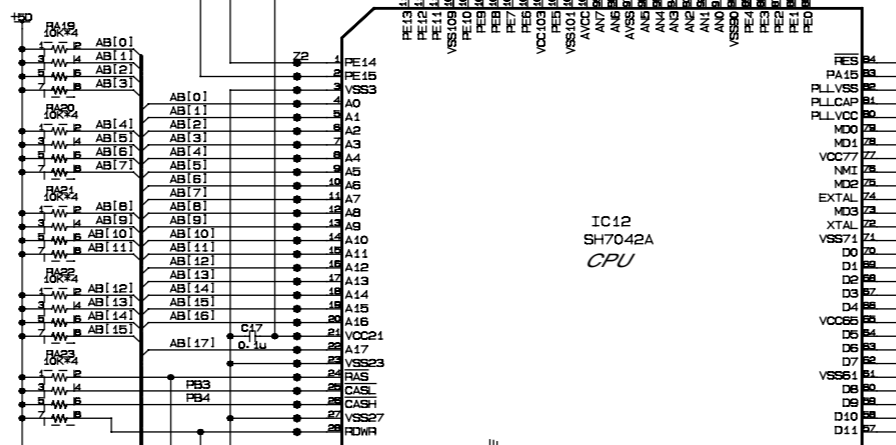
MSCPU CIRCUIT DIAGRAM 004 (CS1D)

CS1D

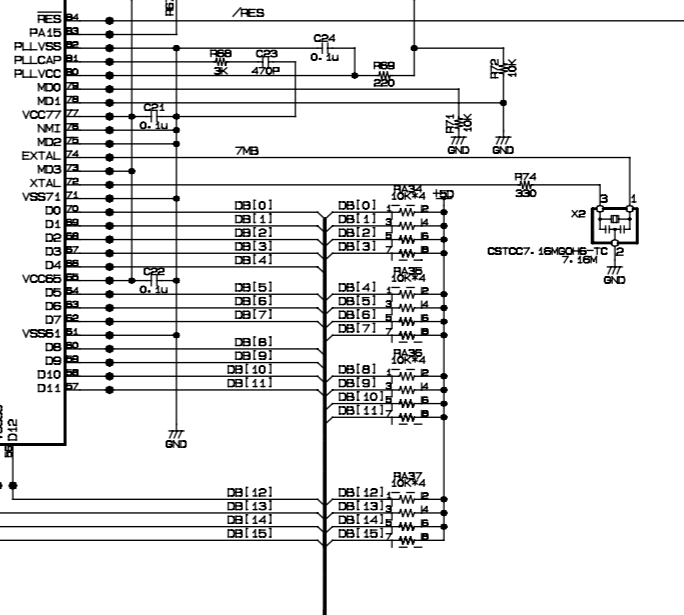
007+B2 ANB[0]
007+B2 ANB[1]
007+B3 ANB[2]
007+B3 ANB[3]

009+05 DIAG1
002+07 LINK
006+03 AB[14]
006+03 AB[12]
006+03 AB[13]
006+03 AB[14]
006+03 AB[15]
006+03 AB[17]

FLASH ROM 4M IC11
AB[16] A15
AB[15] A14
AB[14] A13
AB[13] A12
AB[12] A11
AB[11] A10
AB[10] A9
AB[9] A8
AB[8] A7
AB[7] A6
AB[6] A5
AB[5] A4
AB[4] A3
AB[3] A2
AB[2] A1



SH7042A(IC12) MODE SETUP table with columns R70, R73, Internal ROM and rows MODE1, MODE2. Note: Factory setup : MODE2

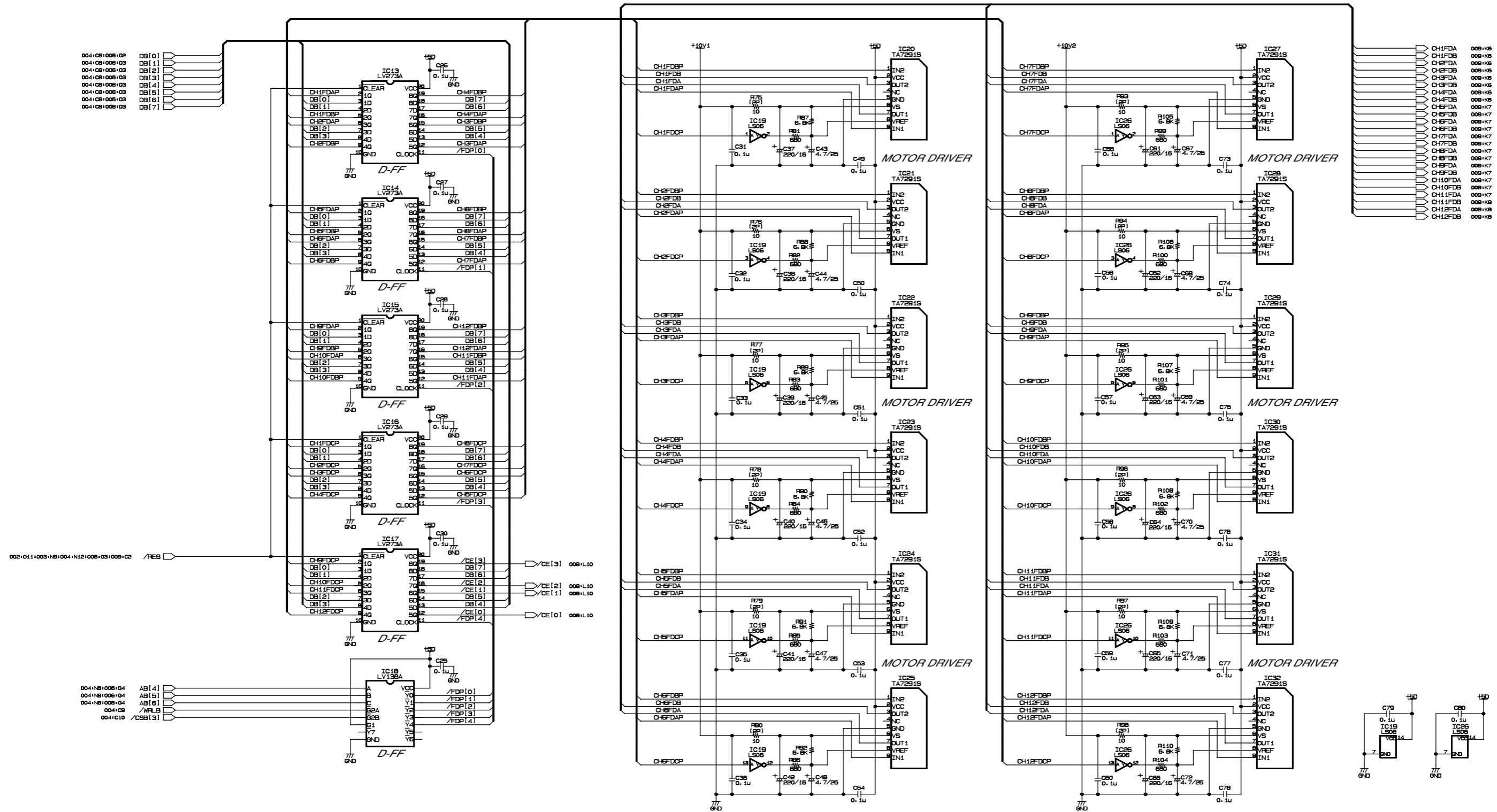


DB[0] 006+03+006+03
DB[1] 006+03+006+03
DB[2] 006+03+006+03
DB[3] 006+03+006+03
DB[4] 006+03+006+03
DB[5] 006+03+006+03
DB[6] 006+03+006+03
DB[7] 006+03+006+03

/RFB 006+04
/WRLB 006+010
/SLOC 007+05
/CSB[3] 006+010
/CSB[2] 006+06
SCK1B 006+03
TX1B 006+03
RS 006+03
INL_CFX 006+04
COM_A2B 006+010

002+011+003+05+005+06+006+03+006+02

CPU-B



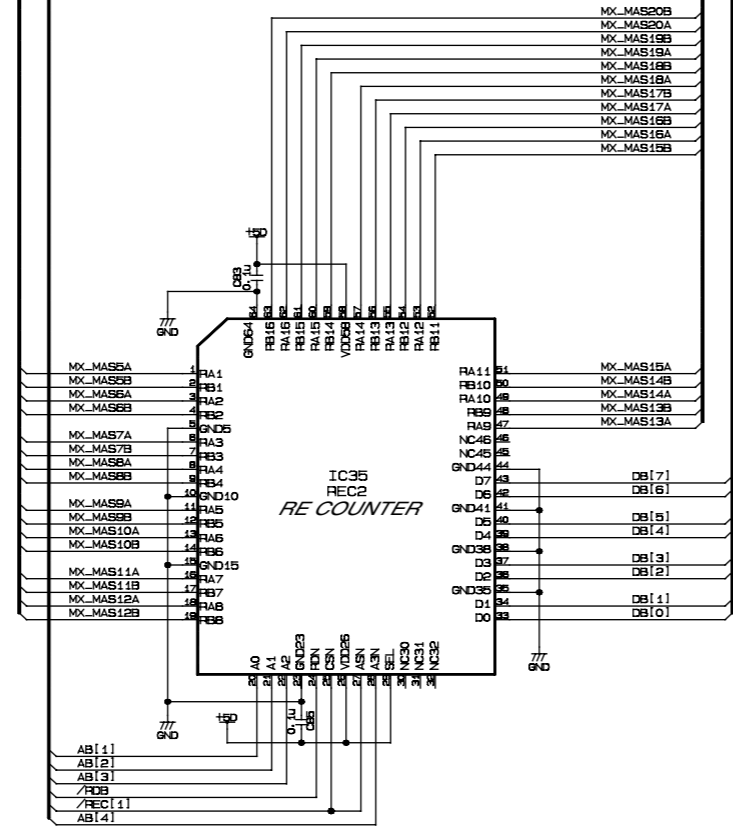
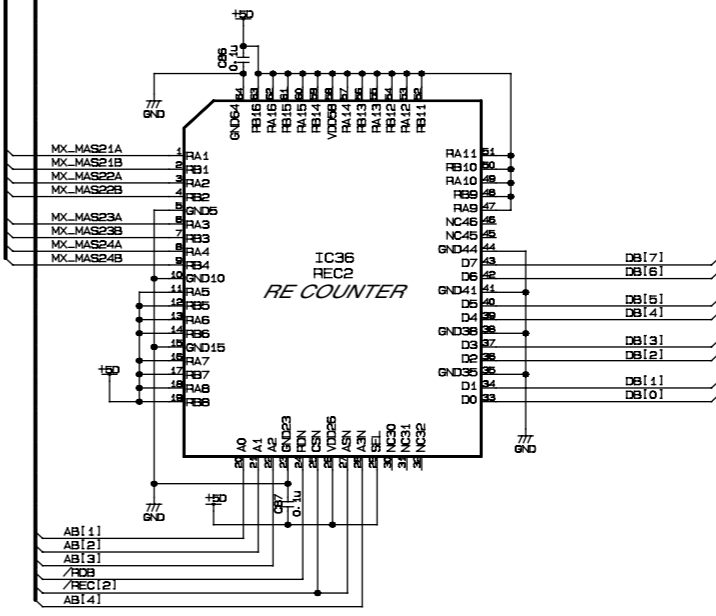
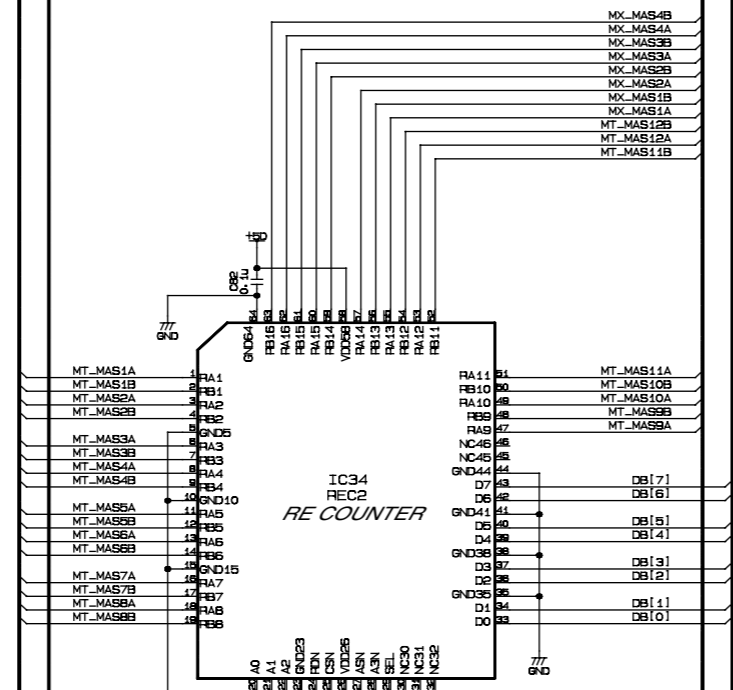
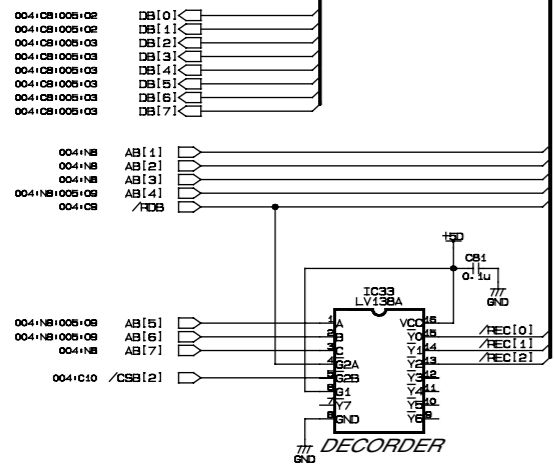
(2P): Metal Oxide Film Resistor

FADER CONTROL

■ MSCPU CIRCUIT DIAGRAM 006 (CS1D)

CS1D

1
2
3
4
5
6
7
8
9
10
11
12

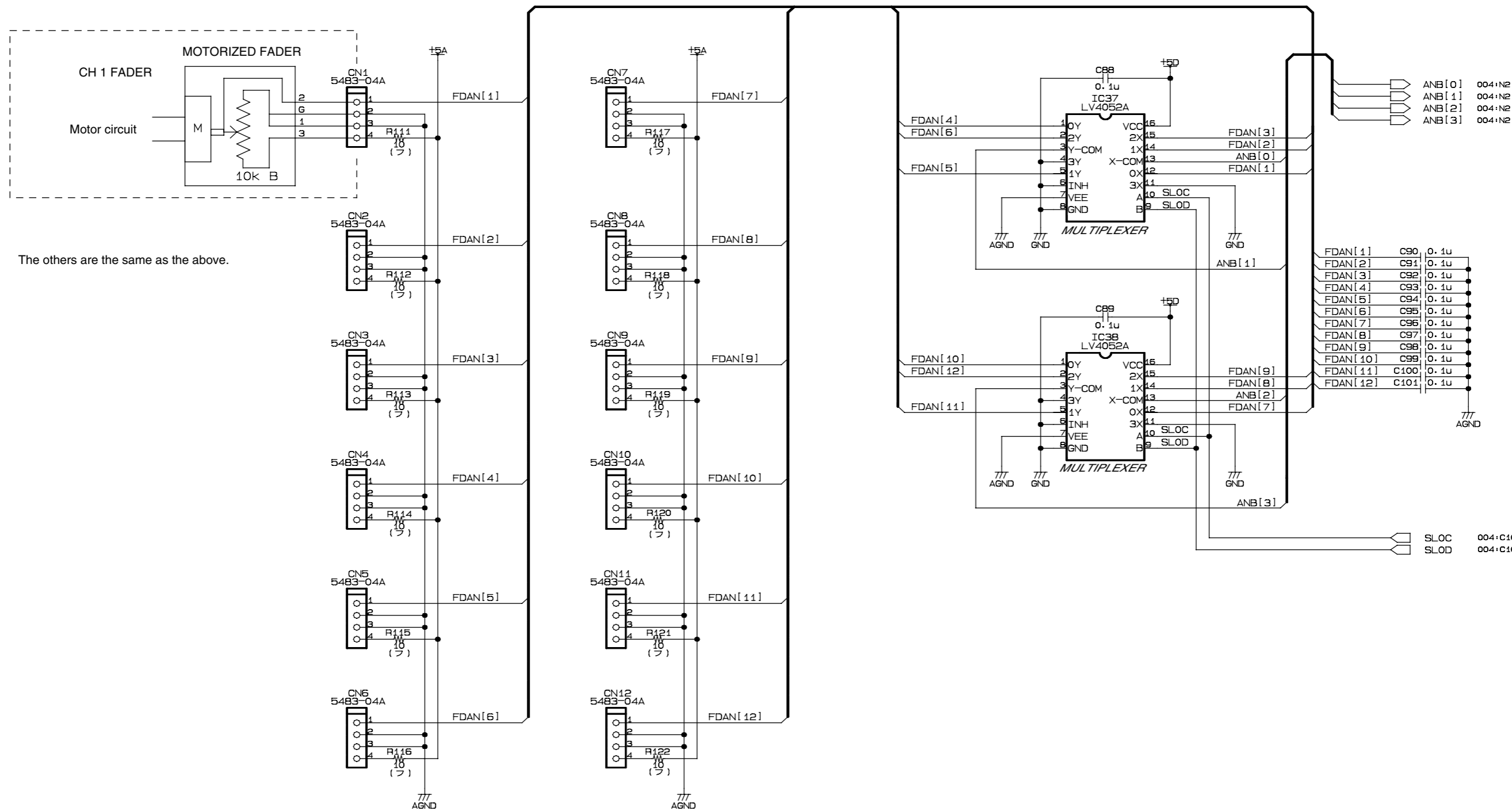


MT_MAS1A	010:00
MT_MAS1B	010:02
MT_MAS2A	010:02
MT_MAS2B	010:02
MT_MAS3A	010:02
MT_MAS3B	010:02
MT_MAS4A	010:02
MT_MAS4B	010:02
MT_MAS5A	010:02
MT_MAS5B	010:02
MT_MAS6A	010:02
MT_MAS6B	010:02
MT_MAS7A	010:02
MT_MAS7B	010:03
MT_MAS8A	010:03
MT_MAS8B	010:03
MT_MAS9A	010:03
MT_MAS9B	010:03
MT_MAS10A	010:03
MT_MAS10B	010:03
MT_MAS11A	010:03
MT_MAS11B	010:03
MT_MAS12A	010:03
MT_MAS12B	010:03
MX_MAS1A	010:03
MX_MAS1B	010:04
MX_MAS2A	010:04
MX_MAS2B	010:04
MX_MAS3A	010:04
MX_MAS3B	010:04
MX_MAS4A	010:04
MX_MAS4B	010:04
MX_MAS5A	010:04
MX_MAS5B	010:04
MX_MAS6A	010:04
MX_MAS6B	010:04
MX_MAS7A	010:04
MX_MAS7B	010:04
MX_MAS8A	010:05
MX_MAS8B	010:05
MX_MAS9A	010:05
MX_MAS9B	010:05
MX_MAS10A	010:05
MX_MAS10B	010:05
MX_MAS11A	010:05
MX_MAS11B	010:05
MX_MAS12A	010:05
MX_MAS12B	010:05
MX_MAS13A	010:05
MX_MAS13B	010:05
MX_MAS14A	010:05
MX_MAS14B	010:05
MX_MAS15A	010:05
MX_MAS15B	010:05
MX_MAS16A	010:05
MX_MAS16B	010:05
MX_MAS17A	010:05
MX_MAS17B	010:05
MX_MAS18A	010:05
MX_MAS18B	010:05
MX_MAS19A	010:05
MX_MAS19B	010:05
MX_MAS20A	010:05
MX_MAS20B	010:05
MX_MAS21A	010:07
MX_MAS21B	010:07
MX_MAS22A	010:07
MX_MAS22B	010:07
MX_MAS23A	010:07
MX_MAS23B	010:07
MX_MAS24A	010:07
MX_MAS24B	010:07

ENCODER I/F

■ MSCPU CIRCUIT DIAGRAM 007 (CS1D)

CS1D



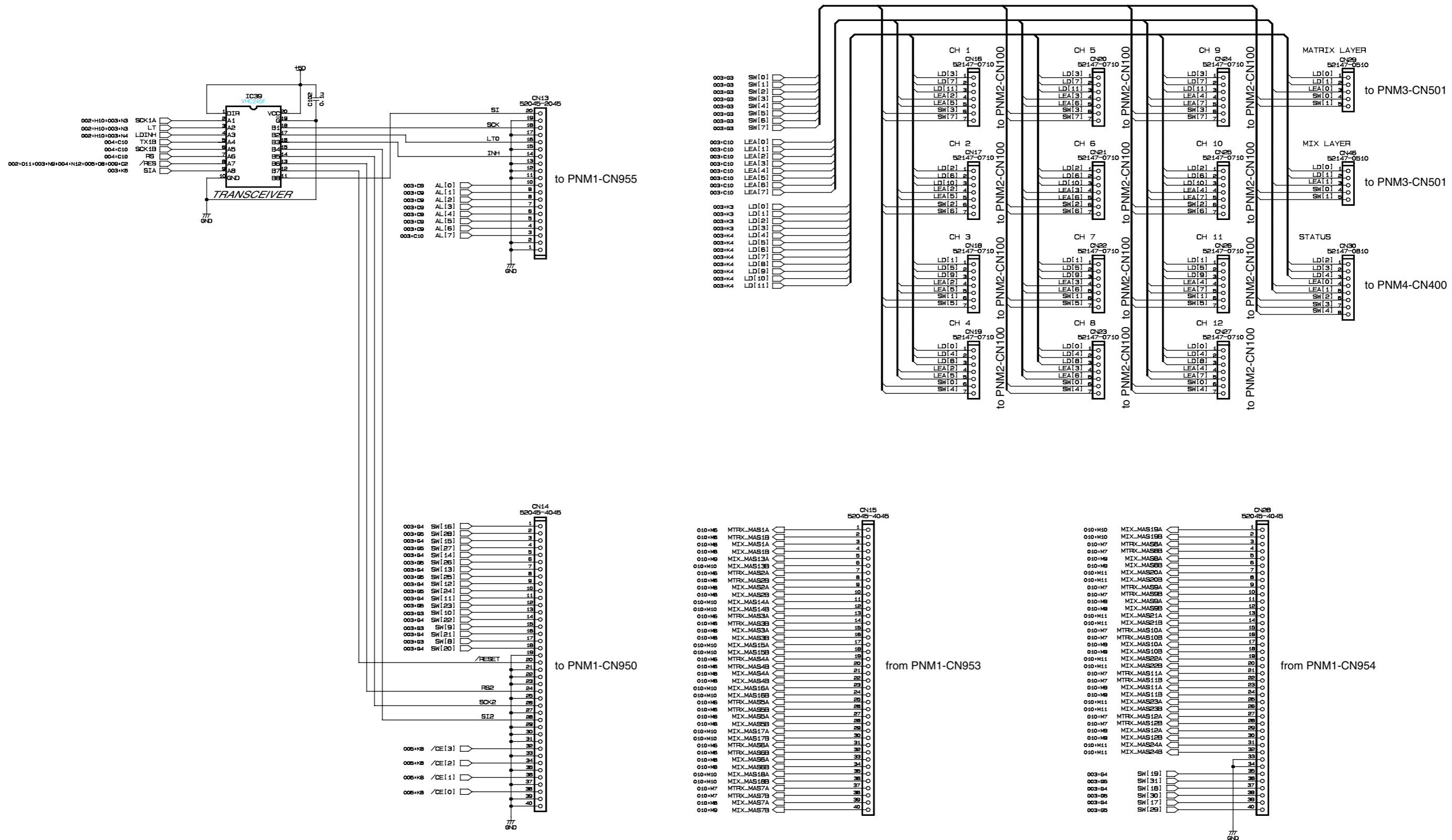
The others are the same as the above.

(フ): Flame Proof Carbon Resistor

FADER CONNECTOR & SELECTOR

MSCPU CIRCUIT DIAGRAM 008 (CS1D)

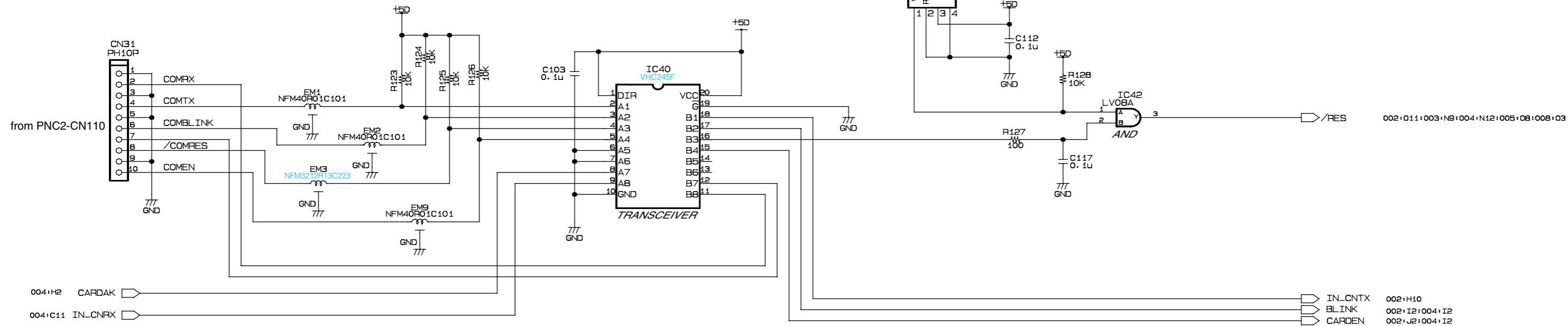
CS1D



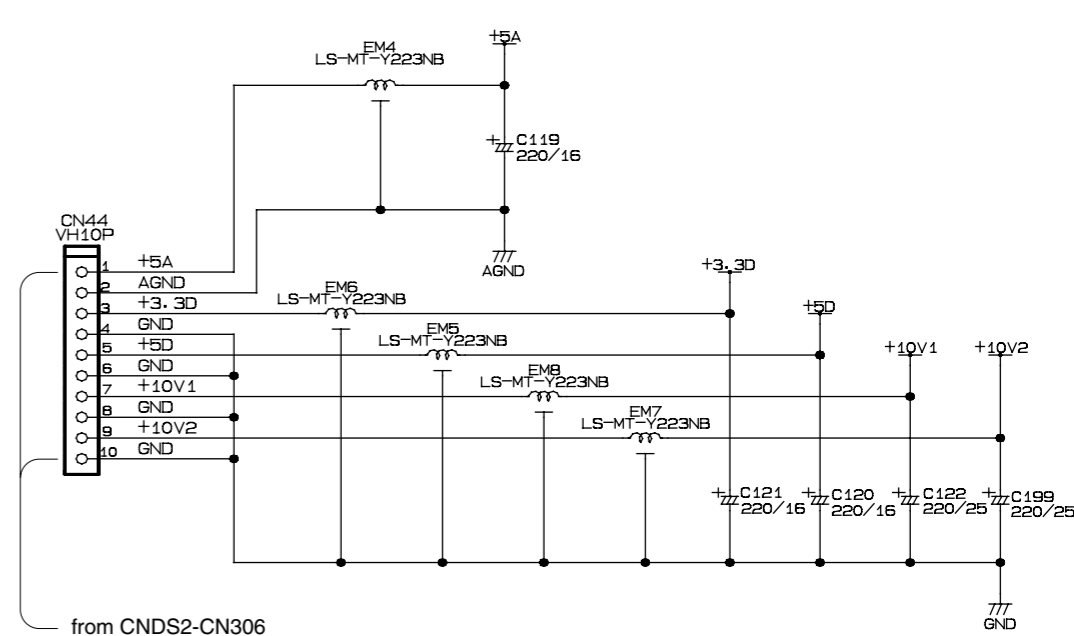
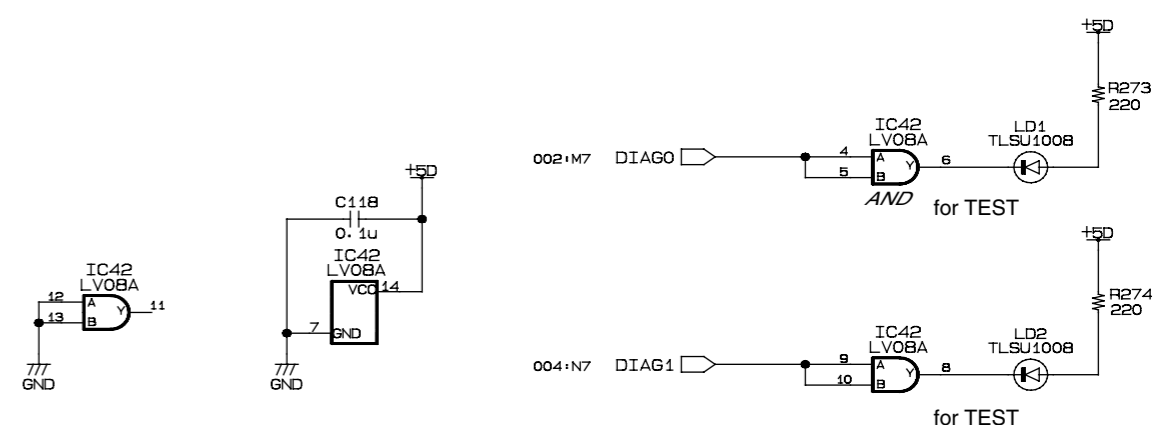
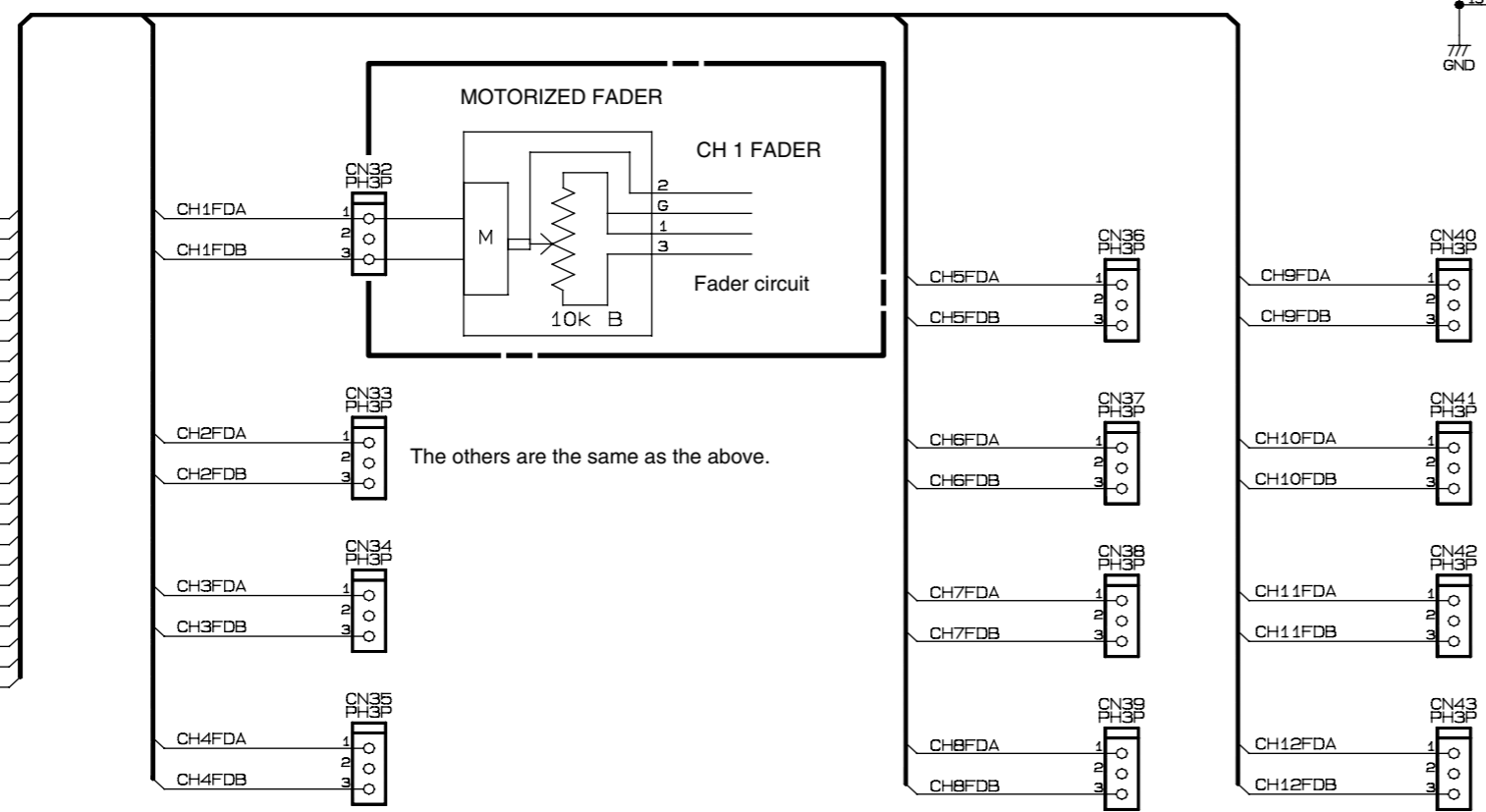
BUFFER & CONNECTOR

■ MSCPU CIRCUIT DIAGRAM 009 (CS1D)

CS1D



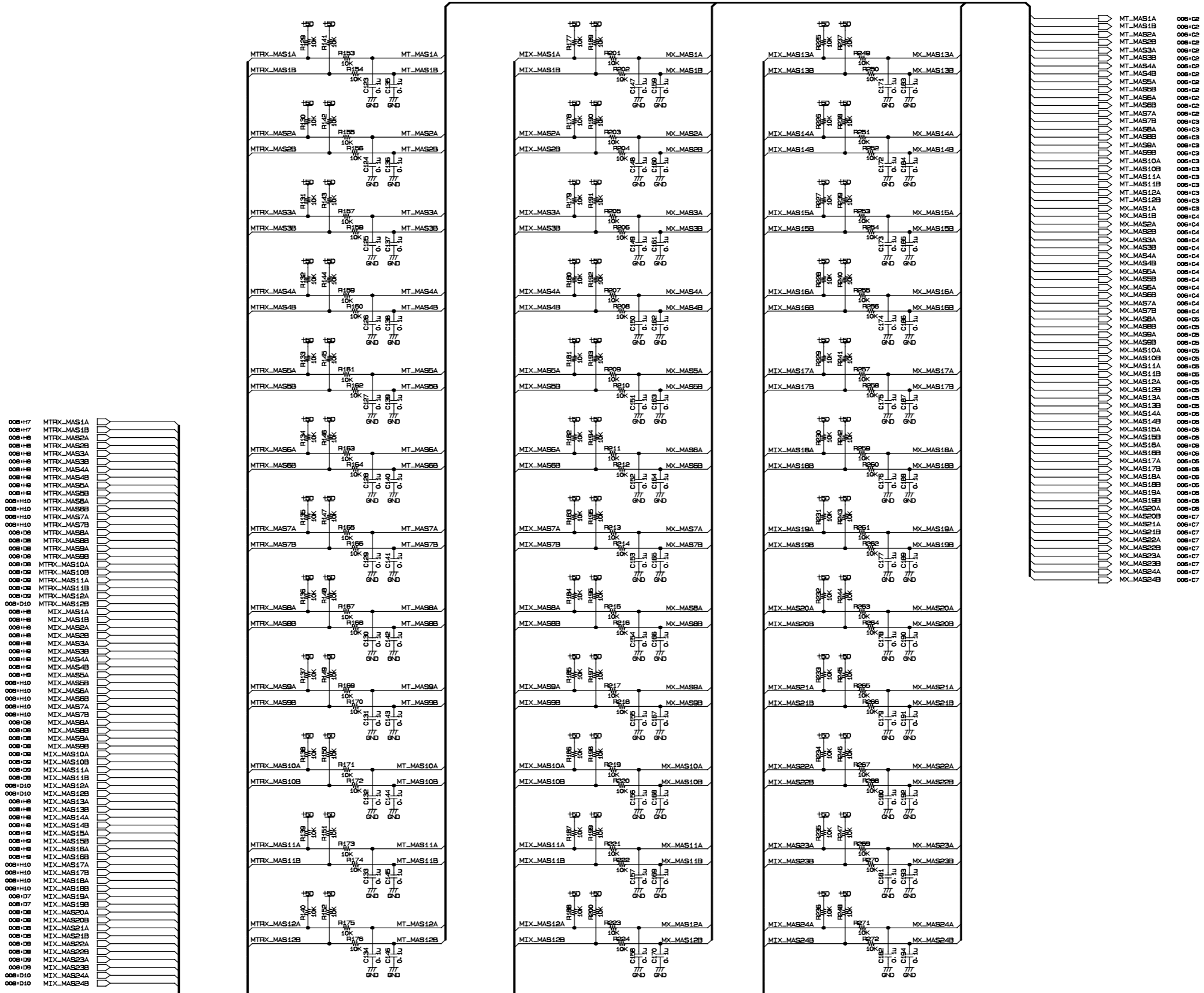
- 005:B2 CH1FDA
- 005:B2 CH1FDB
- 005:B2 CH2FDA
- 005:B3 CH2FDB
- 005:B3 CH3FDA
- 005:B3 CH3FDB
- 005:B3 CH4FDA
- 005:B3 CH4FDB
- 005:B3 CH5FDA
- 005:B3 CH5FDB
- 005:B3 CH6FDA
- 005:B3 CH6FDB
- 005:B3 CH7FDA
- 005:B3 CH7FDB
- 005:B3 CH8FDA
- 005:B3 CH8FDB
- 005:B4 CH9FDA
- 005:B4 CH9FDB
- 005:B4 CH10FDA
- 005:B4 CH10FDB
- 005:B4 CH11FDA
- 005:B4 CH11FDB
- 005:B4 CH12FDA
- 005:B4 CH12FDB



■ MSCPU CIRCUIT DIAGRAM 009 (CS1D)

■ MSCPU CIRCUIT DIAGRAM 010 (CS1D)

CS1D



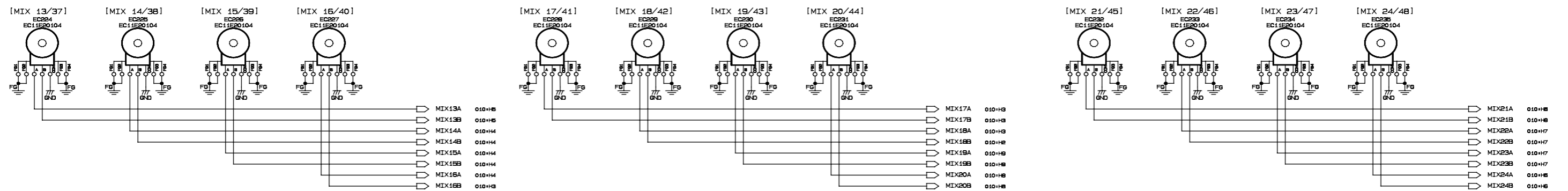
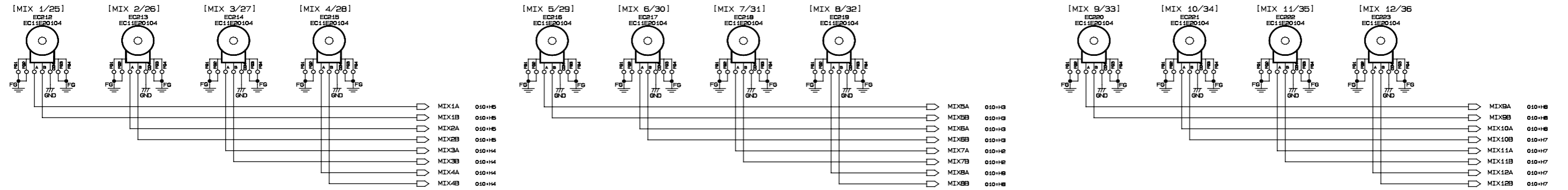
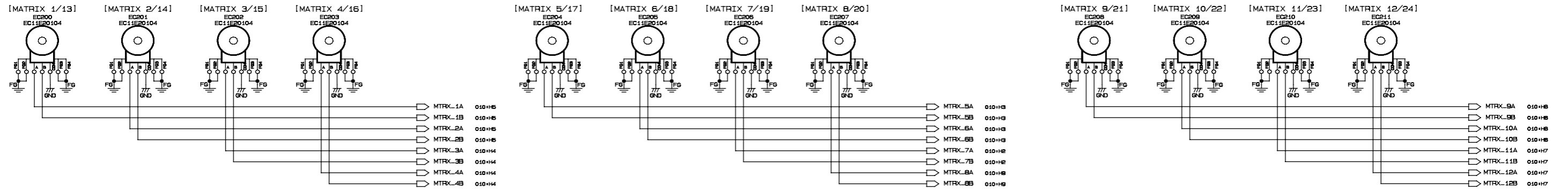
008H07	MTRX_MAS1A
008H07	MTRX_MAS1B
008H08	MTRX_MAS2A
008H08	MTRX_MAS2B
008H08	MTRX_MAS3A
008H08	MTRX_MAS3B
008H08	MTRX_MAS4A
008H08	MTRX_MAS4B
008H08	MTRX_MAS5A
008H08	MTRX_MAS5B
008H10	MTRX_MAS6A
008H10	MTRX_MAS6B
008H10	MTRX_MAS7A
008H10	MTRX_MAS7B
008H08	MTRX_MAS8A
008H08	MTRX_MAS8B
008H08	MTRX_MAS9A
008H08	MTRX_MAS9B
008H08	MTRX_MAS10A
008H08	MTRX_MAS10B
008H08	MTRX_MAS11A
008H08	MTRX_MAS11B
008H08	MTRX_MAS12A
008H10	MTRX_MAS12B
008H08	MIX_MAS1A
008H08	MIX_MAS1B
008H08	MIX_MAS2A
008H08	MIX_MAS2B
008H08	MIX_MAS3A
008H08	MIX_MAS3B
008H08	MIX_MAS4A
008H08	MIX_MAS4B
008H08	MIX_MAS5A
008H08	MIX_MAS5B
008H10	MIX_MAS6A
008H10	MIX_MAS6B
008H10	MIX_MAS7A
008H10	MIX_MAS7B
008H08	MIX_MAS8A
008H08	MIX_MAS8B
008H08	MIX_MAS9A
008H08	MIX_MAS9B
008H08	MIX_MAS10A
008H08	MIX_MAS10B
008H10	MIX_MAS11A
008H10	MIX_MAS11B
008H08	MIX_MAS12A
008H10	MIX_MAS12B
008H07	MIX_MAS13A
008H07	MIX_MAS13B
008H07	MIX_MAS14A
008H07	MIX_MAS14B
008H07	MIX_MAS15A
008H07	MIX_MAS15B
008H07	MIX_MAS16A
008H07	MIX_MAS16B
008H07	MIX_MAS17A
008H07	MIX_MAS17B
008H07	MIX_MAS18A
008H07	MIX_MAS18B
008H07	MIX_MAS19A
008H07	MIX_MAS19B
008H07	MIX_MAS20A
008H07	MIX_MAS20B
008H07	MIX_MAS21A
008H07	MIX_MAS21B
008H07	MIX_MAS22A
008H07	MIX_MAS22B
008H07	MIX_MAS23A
008H07	MIX_MAS23B
008H07	MIX_MAS24A
008H07	MIX_MAS24B

MT_MAS1A	008H02
MT_MAS1B	008H02
MT_MAS2A	008H02
MT_MAS2B	008H02
MT_MAS3A	008H02
MT_MAS3B	008H02
MT_MAS4A	008H02
MT_MAS4B	008H02
MT_MAS5A	008H02
MT_MAS5B	008H02
MT_MAS6A	008H02
MT_MAS6B	008H02
MT_MAS7A	008H02
MT_MAS7B	008H02
MT_MAS8A	008H02
MT_MAS8B	008H02
MT_MAS9A	008H02
MT_MAS9B	008H02
MT_MAS10A	008H02
MT_MAS10B	008H02
MT_MAS11A	008H02
MT_MAS11B	008H02
MT_MAS12A	008H02
MT_MAS12B	008H02
MX_MAS1A	008H03
MX_MAS1B	008H03
MX_MAS2A	008H03
MX_MAS2B	008H03
MX_MAS3A	008H03
MX_MAS3B	008H03
MX_MAS4A	008H03
MX_MAS4B	008H03
MX_MAS5A	008H03
MX_MAS5B	008H03
MX_MAS6A	008H03
MX_MAS6B	008H03
MX_MAS7A	008H03
MX_MAS7B	008H03
MX_MAS8A	008H03
MX_MAS8B	008H03
MX_MAS9A	008H03
MX_MAS9B	008H03
MX_MAS10A	008H03
MX_MAS10B	008H03
MX_MAS11A	008H03
MX_MAS11B	008H03
MX_MAS12A	008H03
MX_MAS12B	008H03
MX_MAS13A	008H03
MX_MAS13B	008H03
MX_MAS14A	008H03
MX_MAS14B	008H03
MX_MAS15A	008H03
MX_MAS15B	008H03
MX_MAS16A	008H03
MX_MAS16B	008H03
MX_MAS17A	008H03
MX_MAS17B	008H03
MX_MAS18A	008H03
MX_MAS18B	008H03
MX_MAS19A	008H03
MX_MAS19B	008H03
MX_MAS20A	008H03
MX_MAS20B	008H03
MX_MAS21A	008H03
MX_MAS21B	008H03
MX_MAS22A	008H03
MX_MAS22B	008H03
MX_MAS23A	008H03
MX_MAS23B	008H03
MX_MAS24A	008H03
MX_MAS24B	008H03

ENCODER INPUT

PNM1 CIRCUIT DIAGRAM 002 (CS1D)

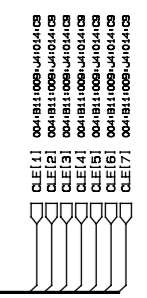
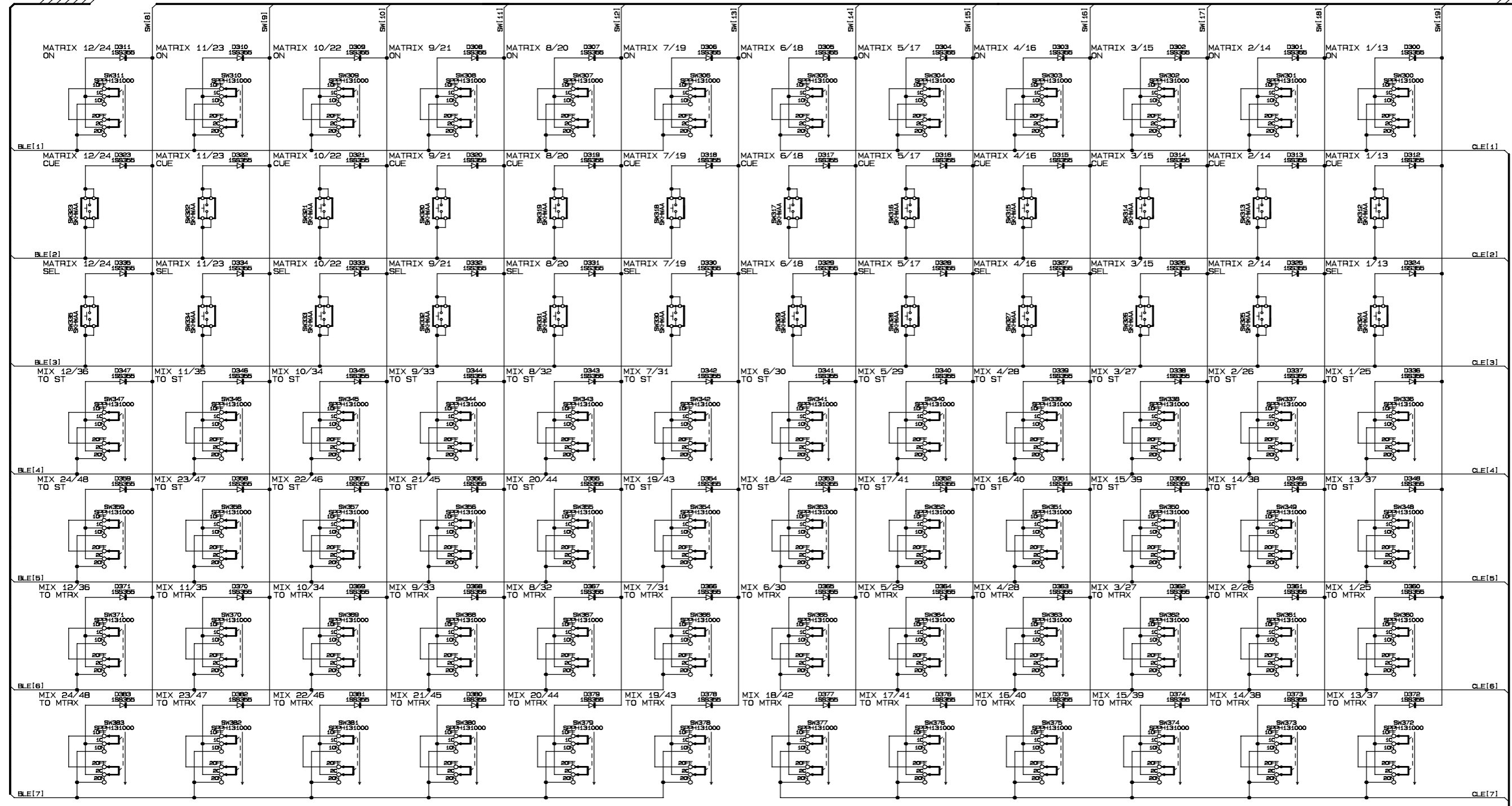
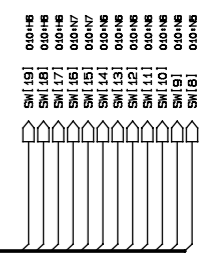
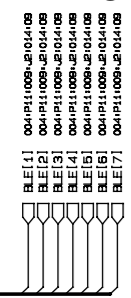
CS1D



[MATRIX 1/13]-[MATRIX 12/24]
 [MIX 1/25]-[MIX 24/48]

PNM1 CIRCUIT DIAGRAM 003 (CS1D)

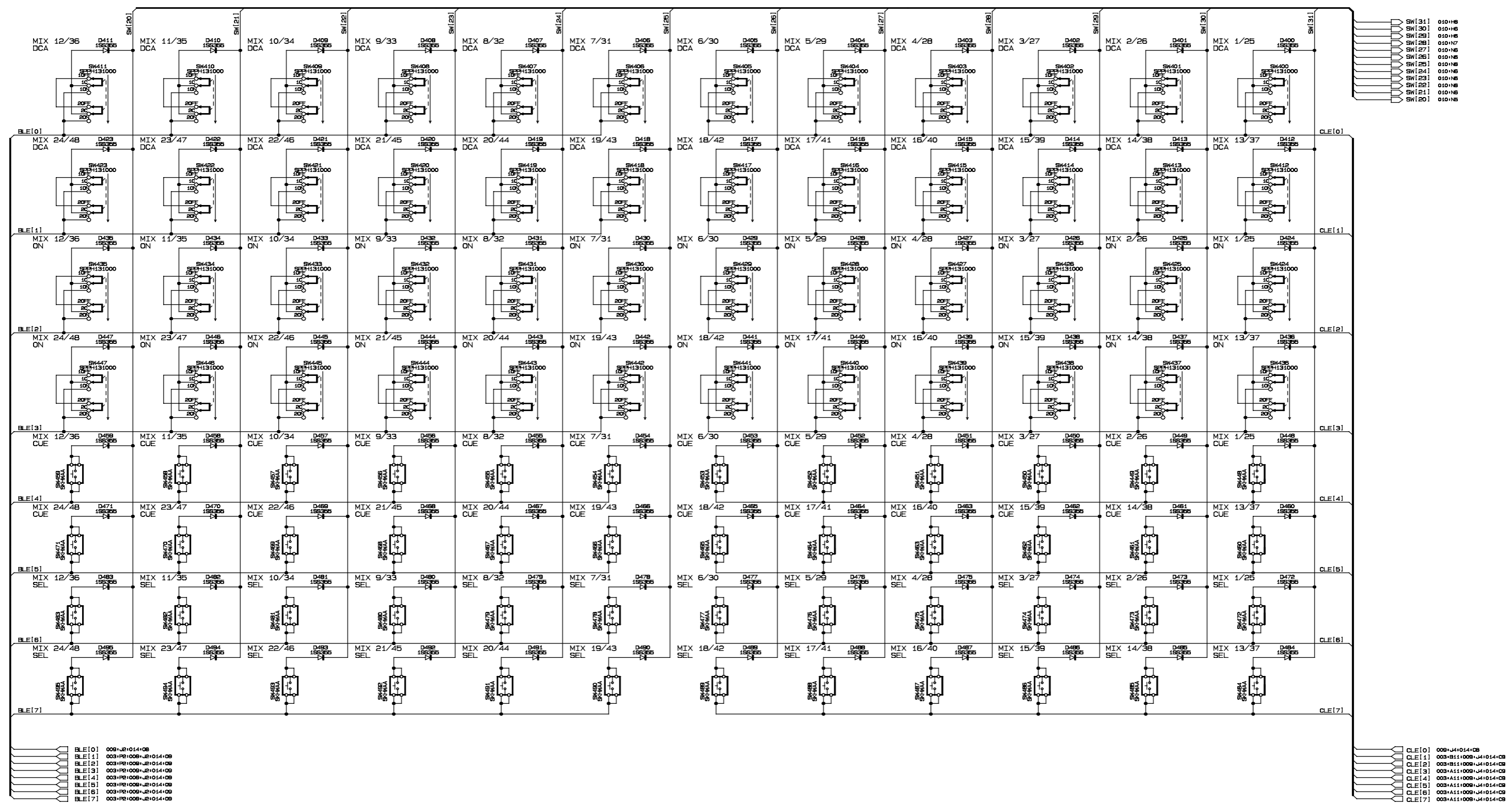
CS1D



[MATRIX 1/13]-[MATRIX 12/24]
[MIX 1/25]-[MIX 24/48]

PNM1 CIRCUIT DIAGRAM 004 (CS1D)

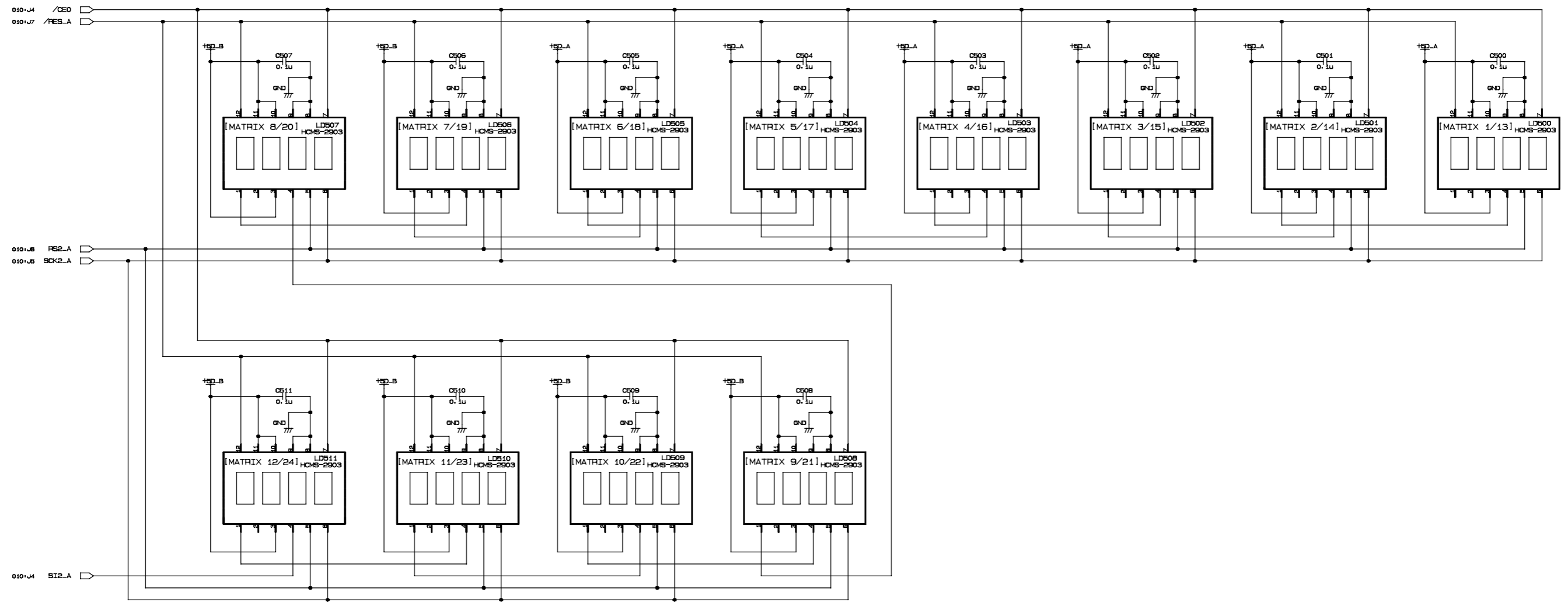
CS1D



[MIX 1/25]-[MIX 24/48]

PNM1 CIRCUIT DIAGRAM 005 (CS1D)

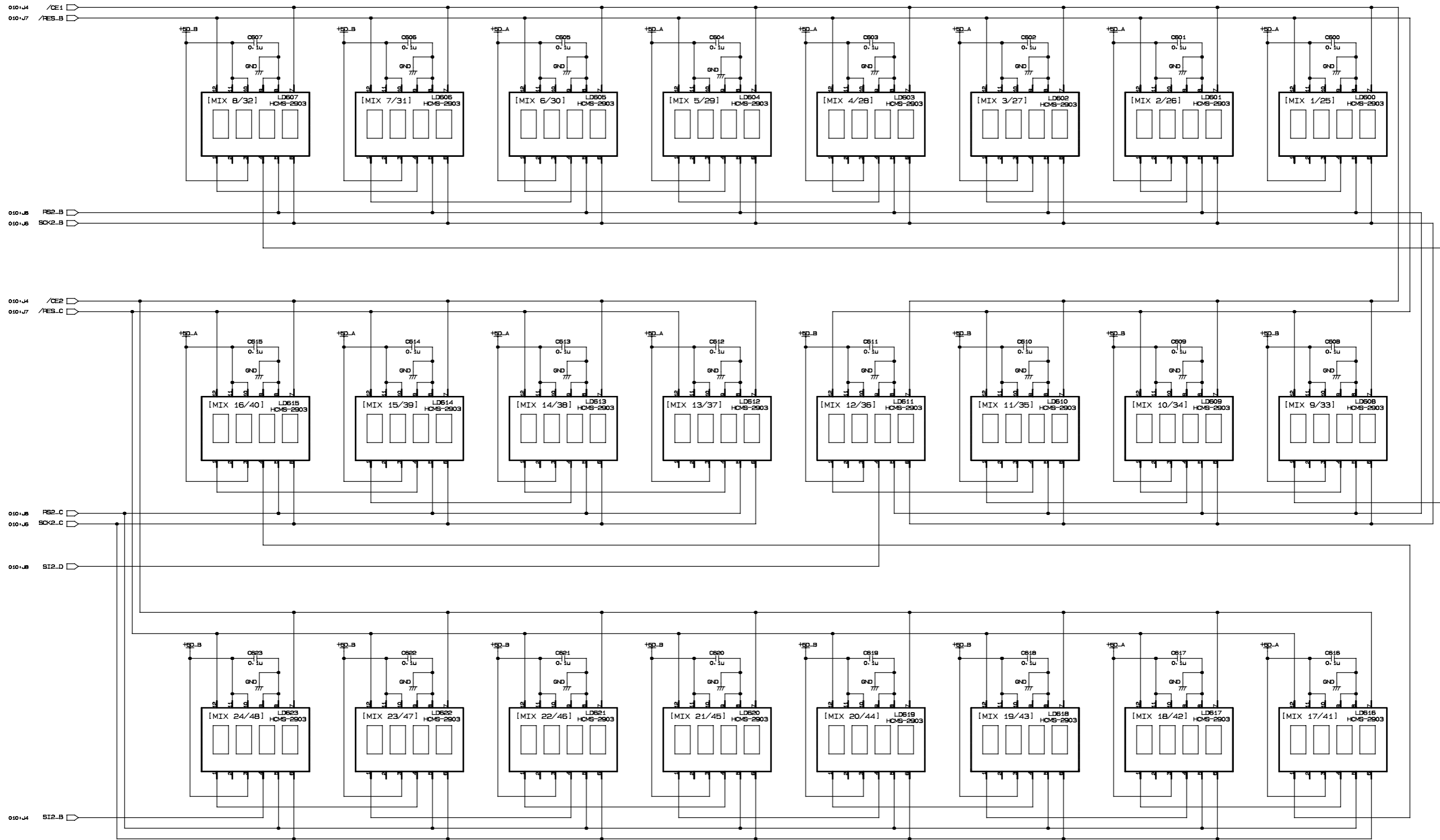
CS1D



[MATRIX 1/13]-[MATRIX 12/24]

PNM1 CIRCUIT DIAGRAM 006 (CS1D)

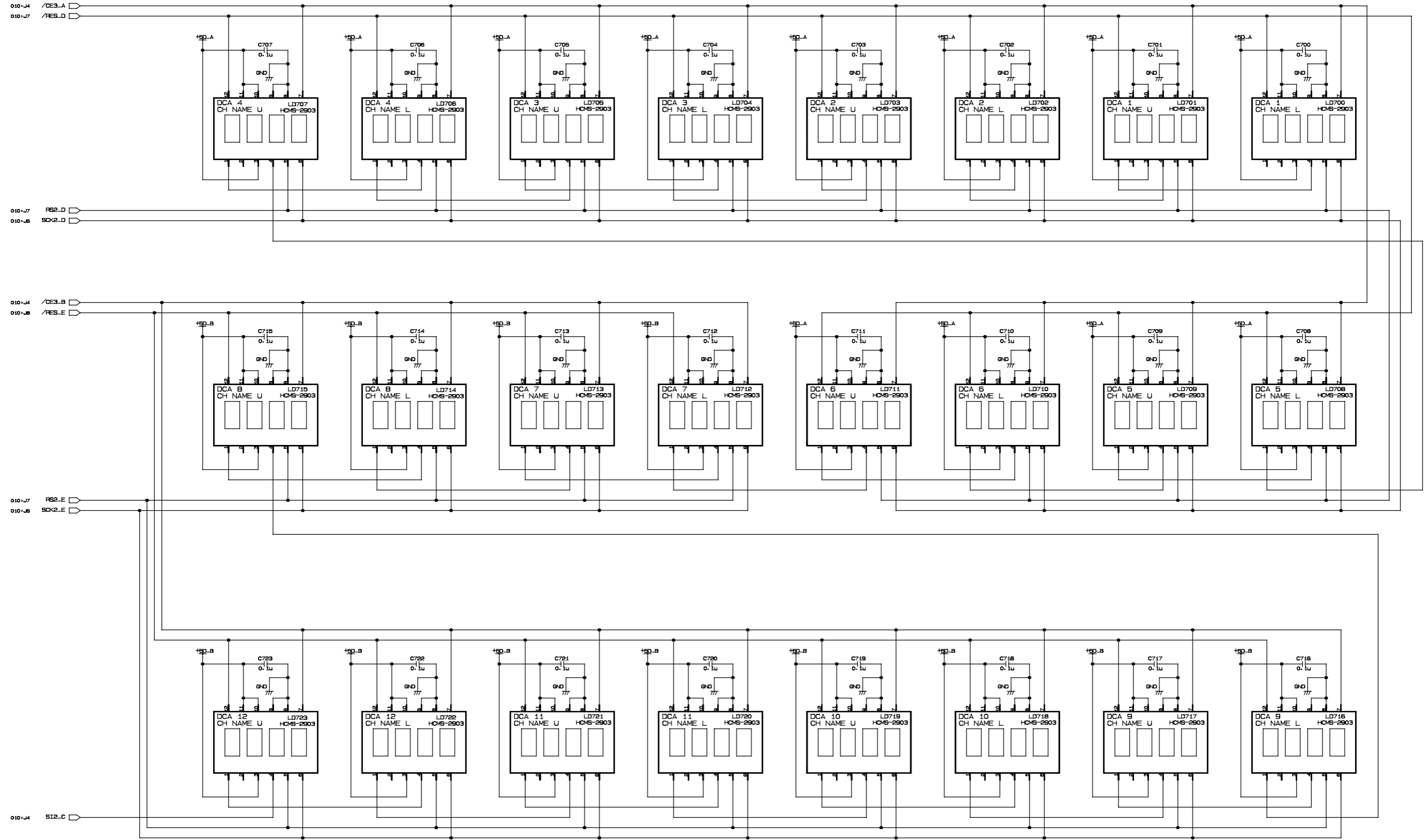
CS1D



[MIX 1/25]-[MIX 24/48]

PNM1 CIRCUIT DIAGRAM 007 (CS1D)

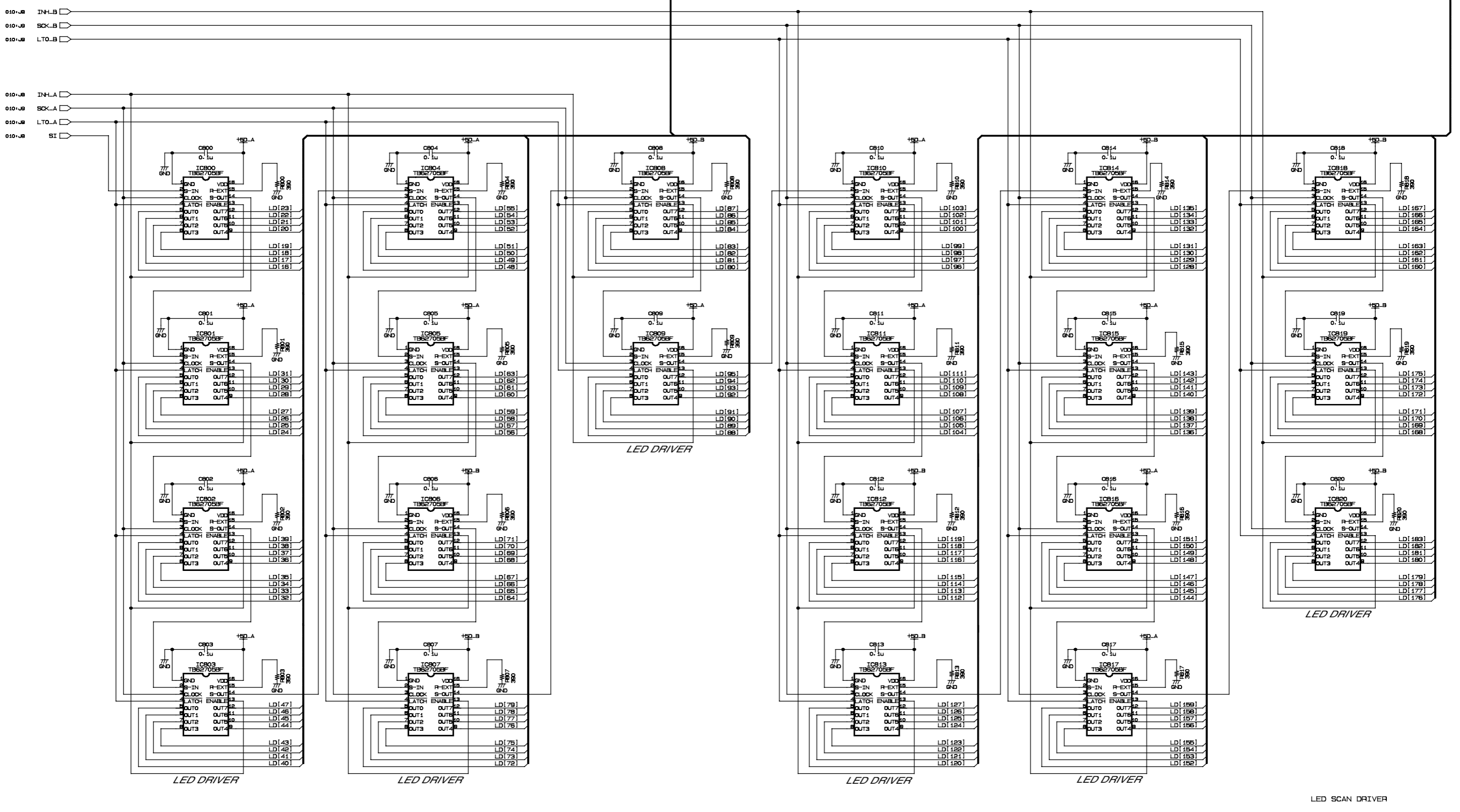
CS1D



DCA[11]-[12]

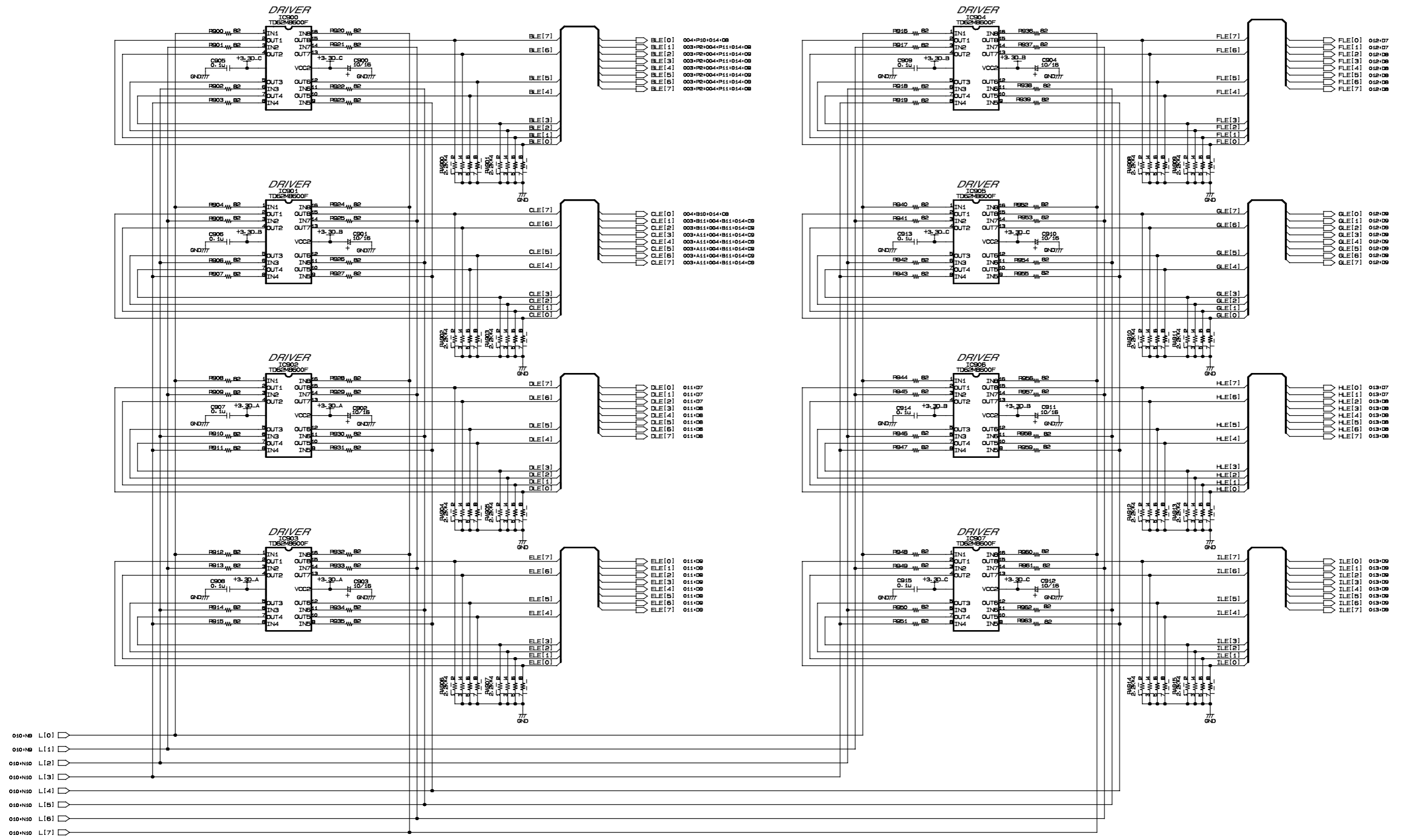
PNM1 CIRCUIT DIAGRAM 008 (CS1D)

CS1D



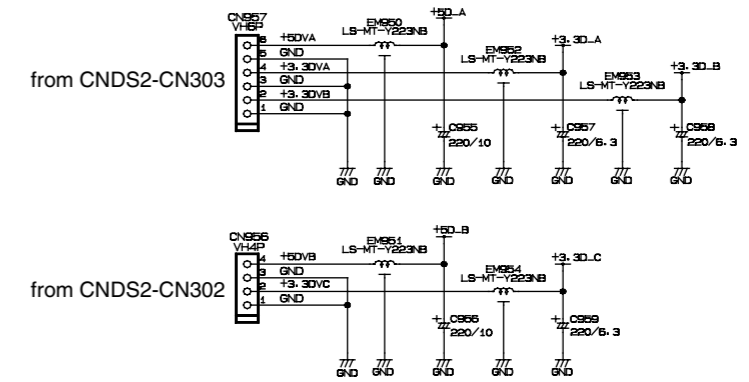
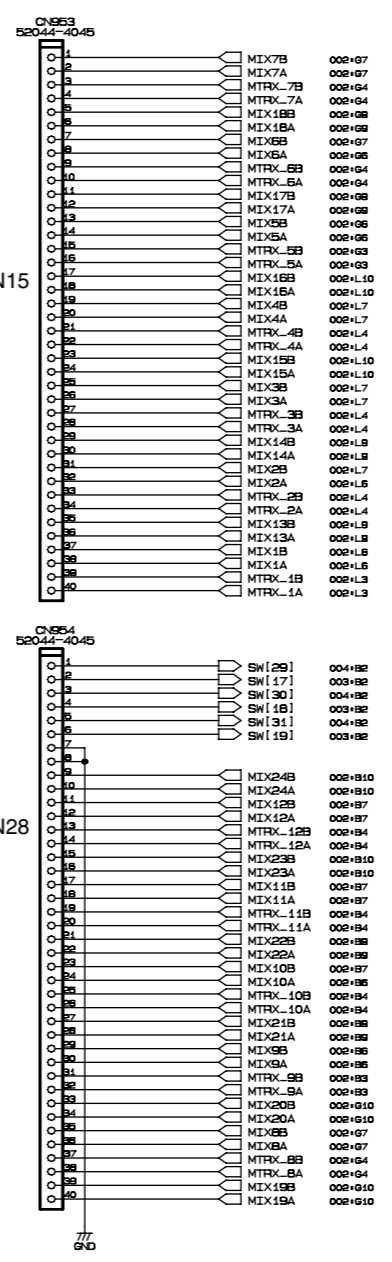
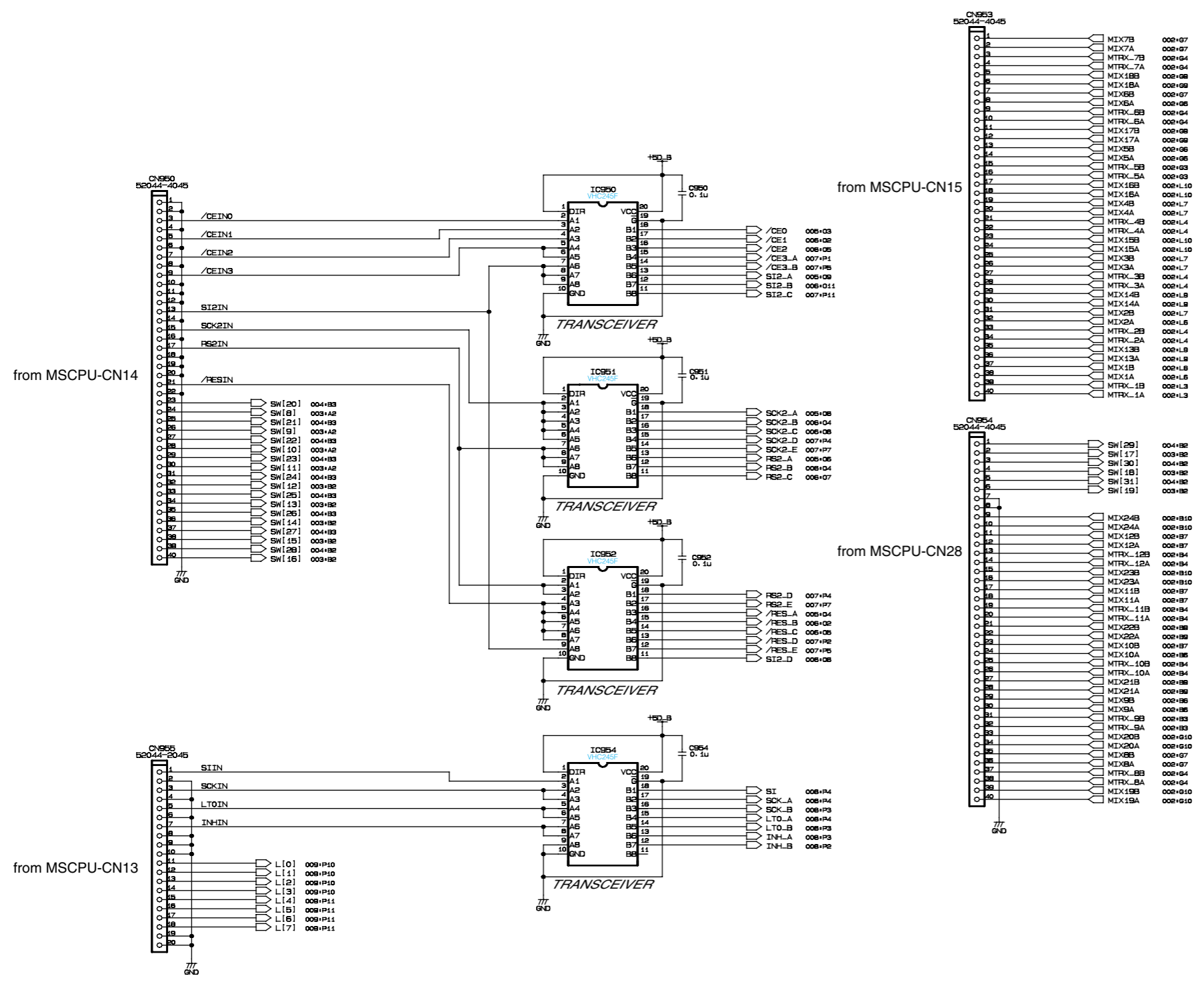
PNM1 CIRCUIT DIAGRAM 009 (CS1D)

CS1D



- 010+N0 L1[0]
- 010+N0 L1[1]
- 010+N10 L1[2]
- 010+N10 L1[3]
- 010+N10 L1[4]
- 010+N10 L1[5]
- 010+N10 L1[6]
- 010+N10 L1[7]

LED/SW SOURCE DRIVER

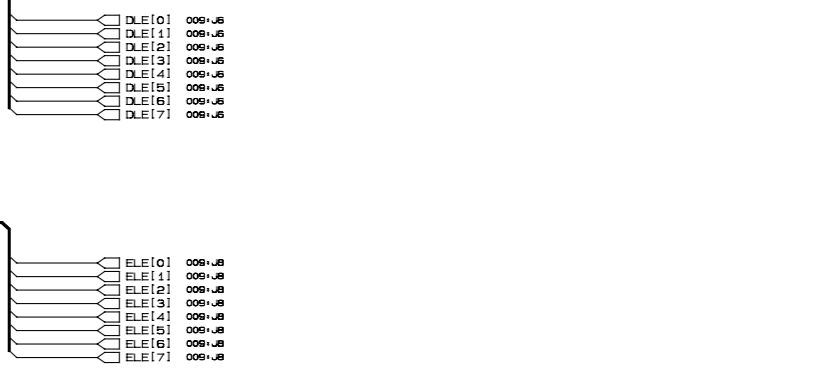
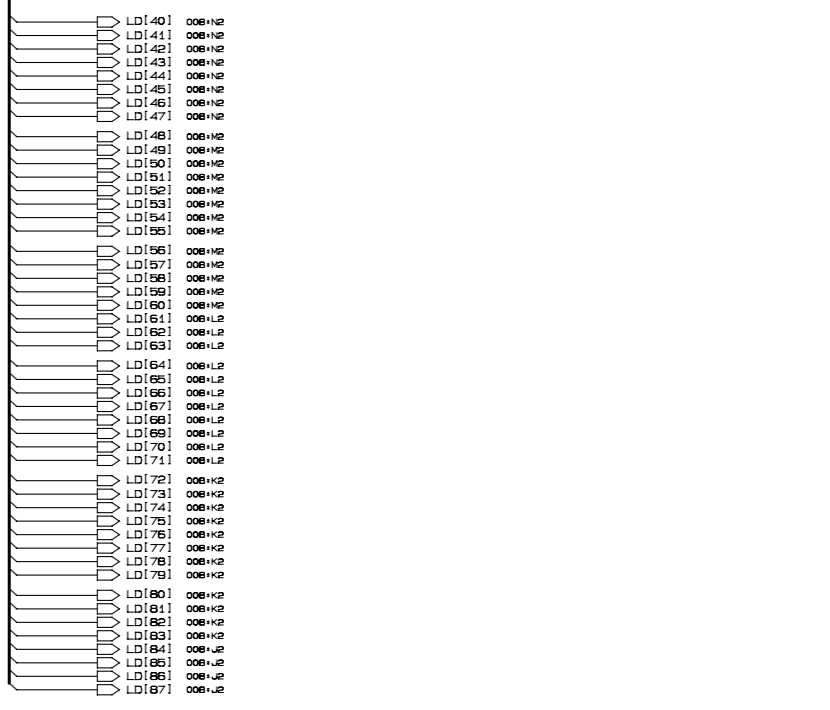
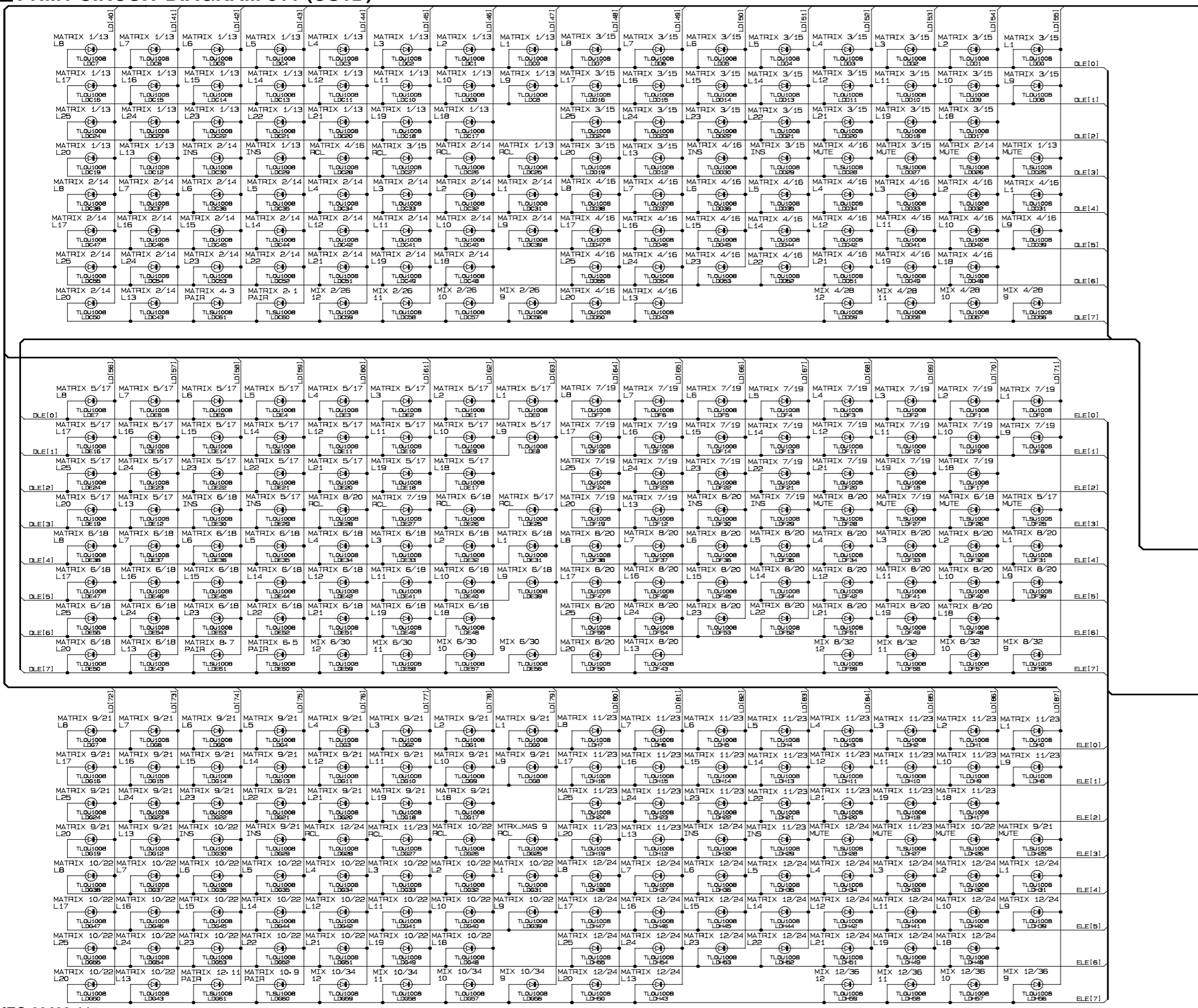


BUFFER & CONNECTOR

PNM1 CIRCUIT DIAGRAM 011 (CS1D)

CS1D

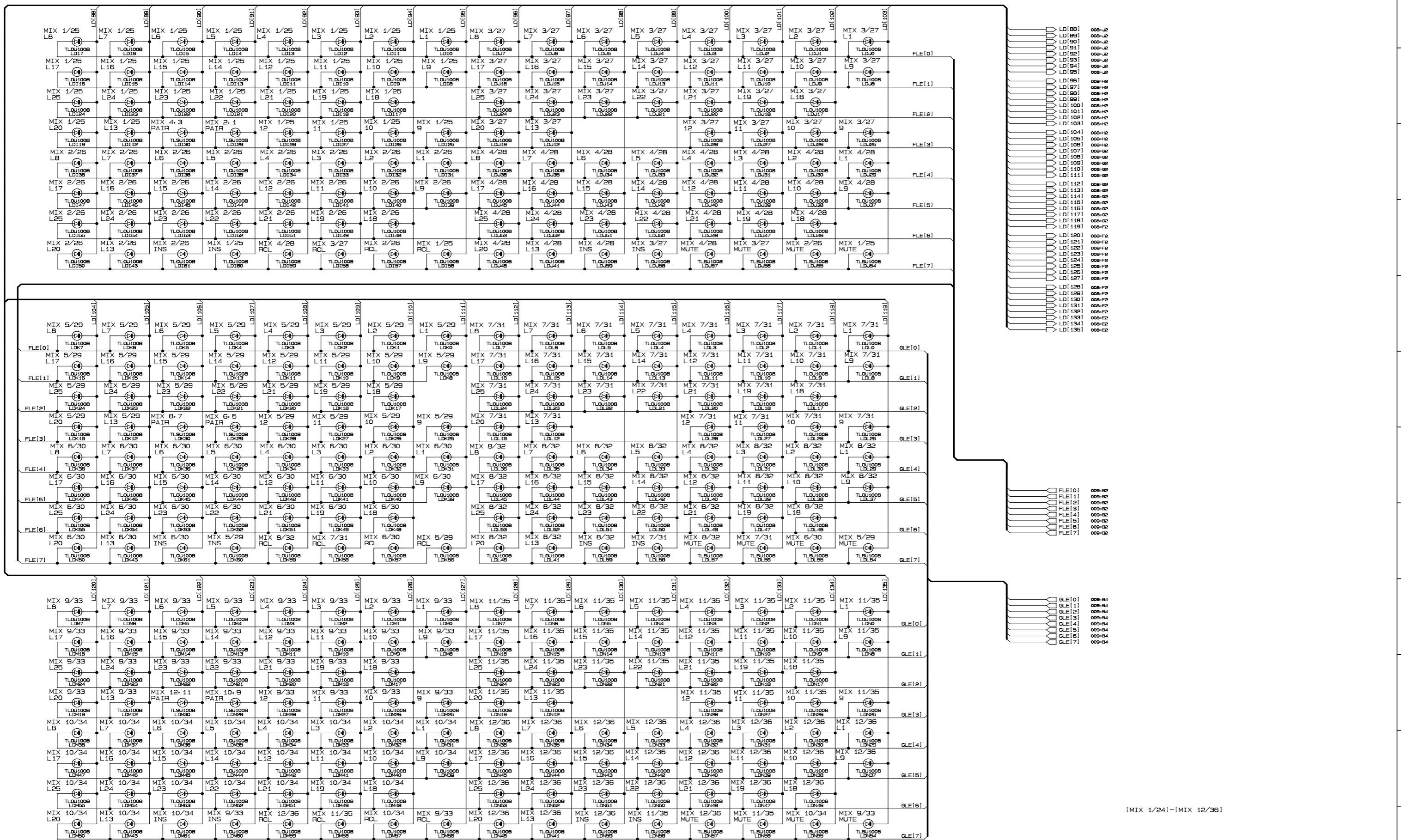
1
2
3
4
5
6
7
8
9
10
11
12



[MATRIX 1/13]-[MATRIX 12/24]
[MIX 2/26], [MIX 4/28], [MIX 6/30]
[MIX 8/32], [MIX 10/34], [MIX 12/36]

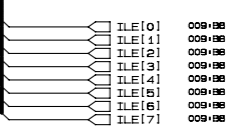
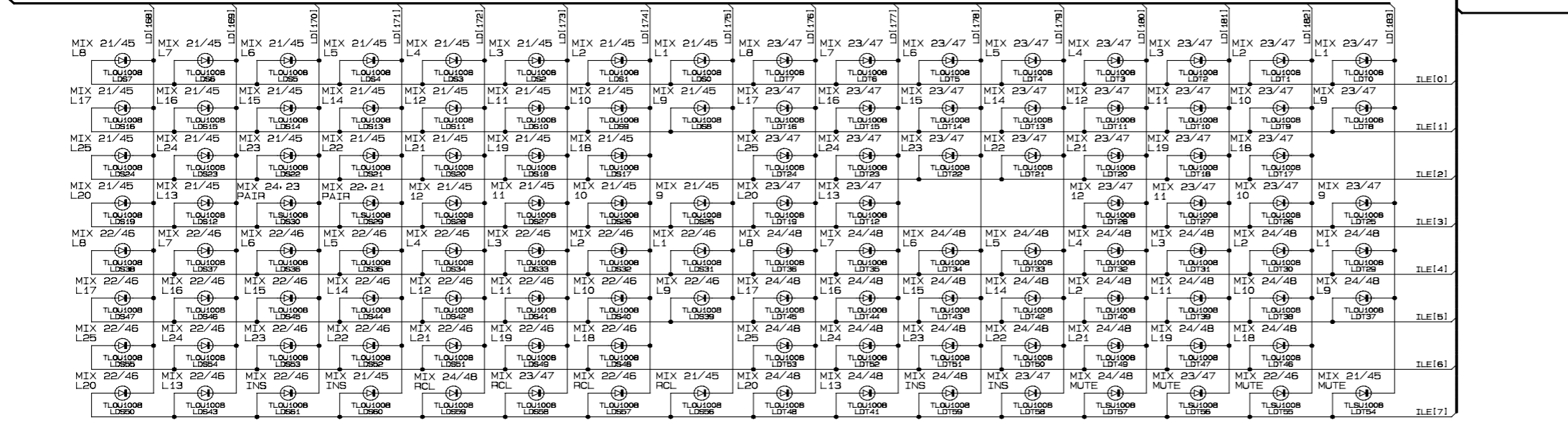
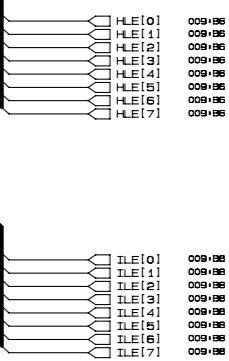
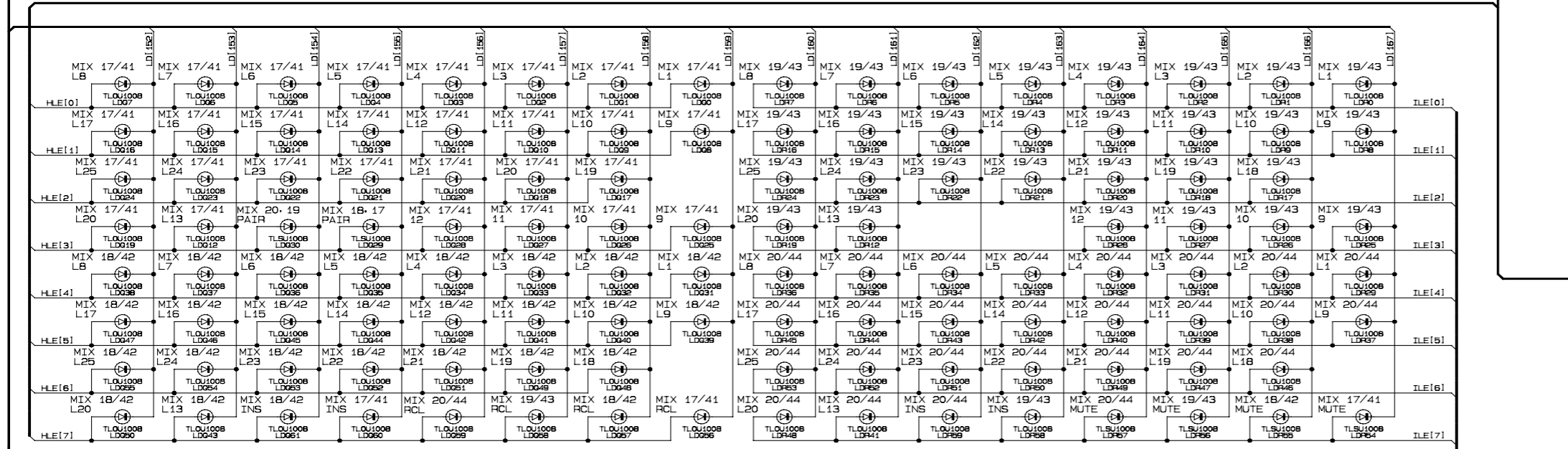
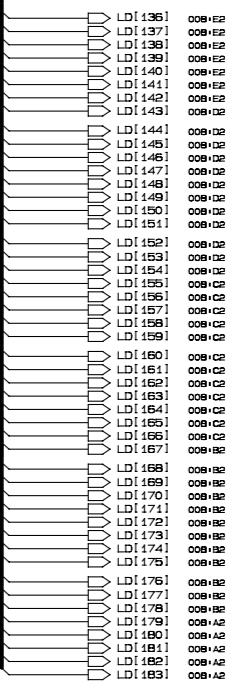
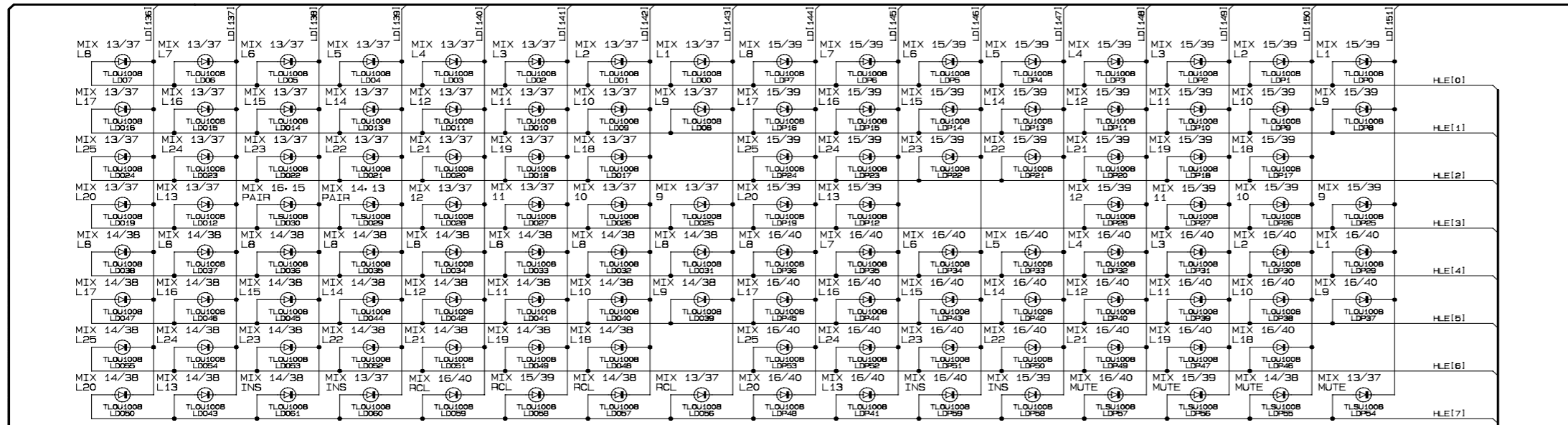
PNM1 CIRCUIT DIAGRAM 012 (CS1D)

CS1D

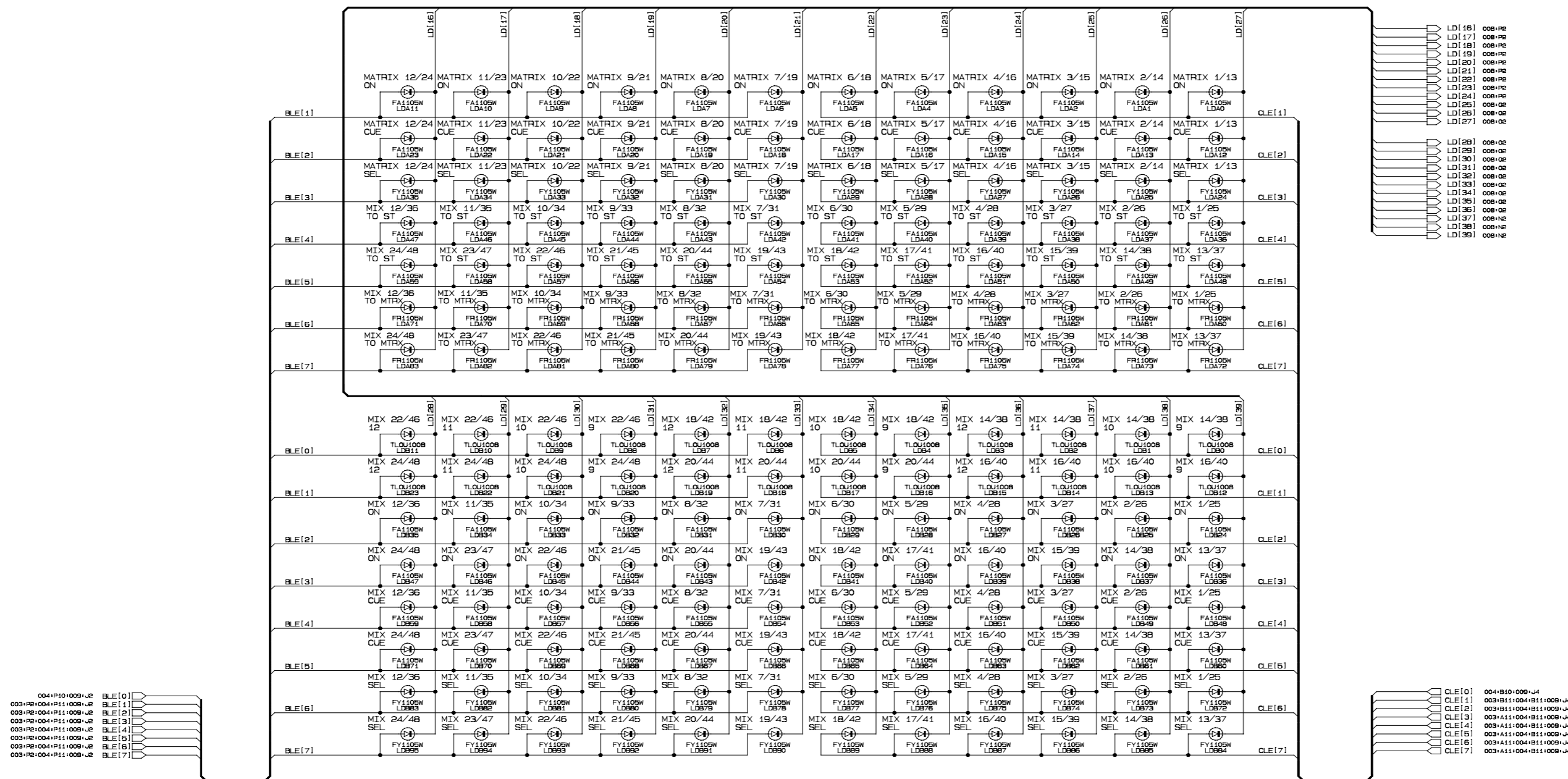


PNM1 CIRCUIT DIAGRAM 013 (CS1D)

CS1D



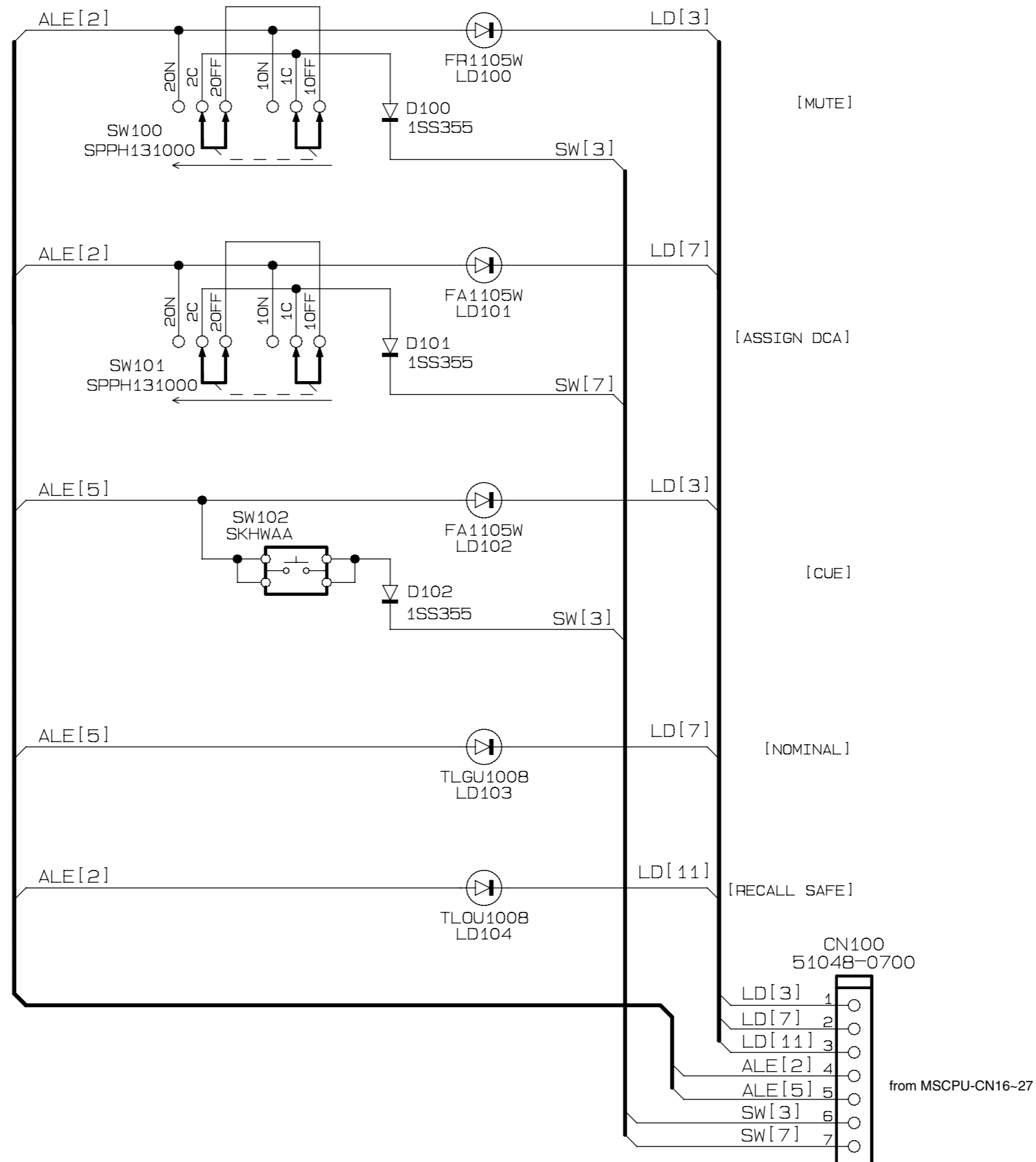
[MIX 13/37]-[MIX 24/48]



[MATRIX 1/13]-MATRIX 12/24]
 [MIX 1/25]-[MIX 24/48]

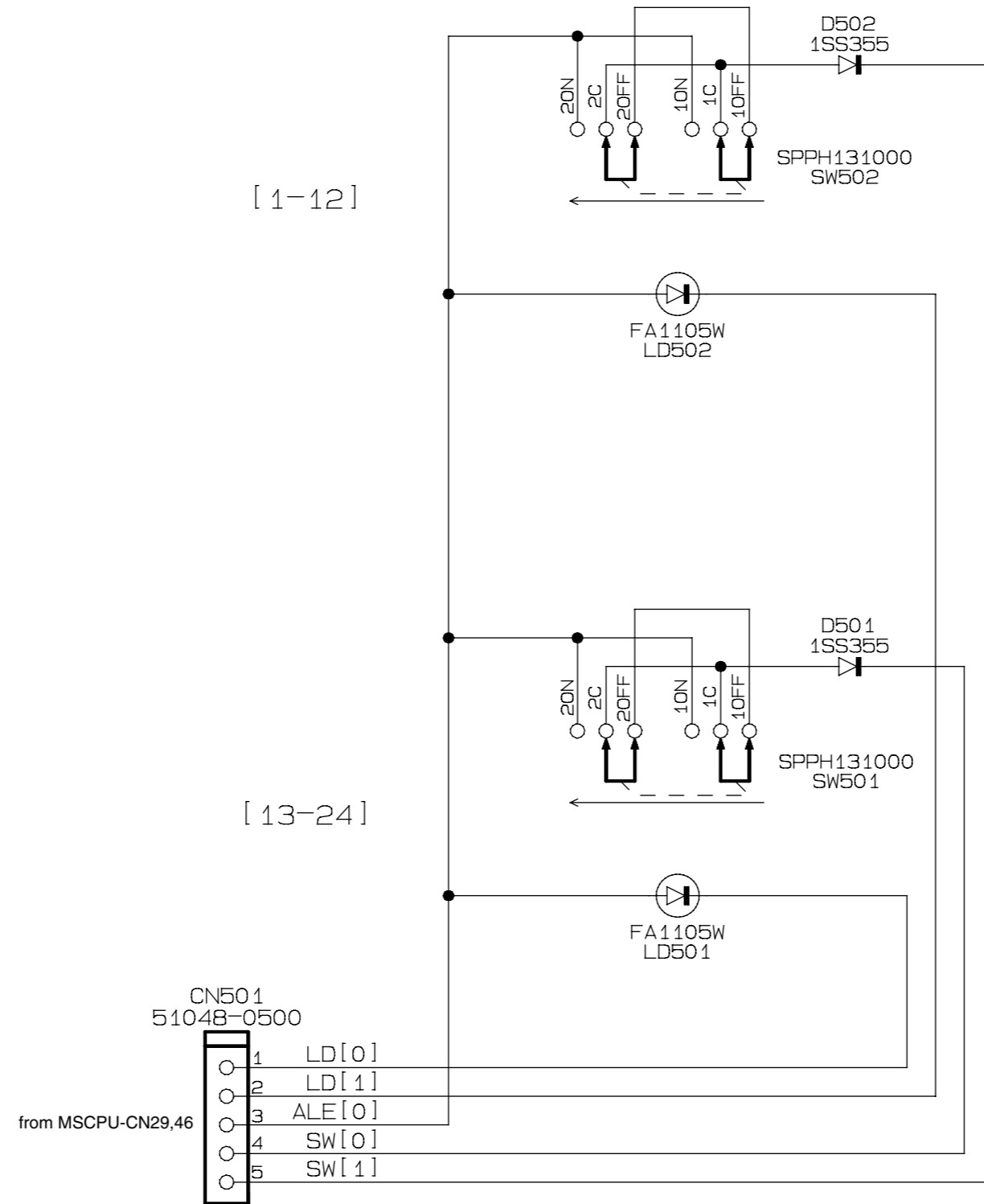
PNM2 CIRCUIT DIAGRAM (CS1D)

CS1D



PNM3 CIRCUIT DIAGRAM (CS1D)

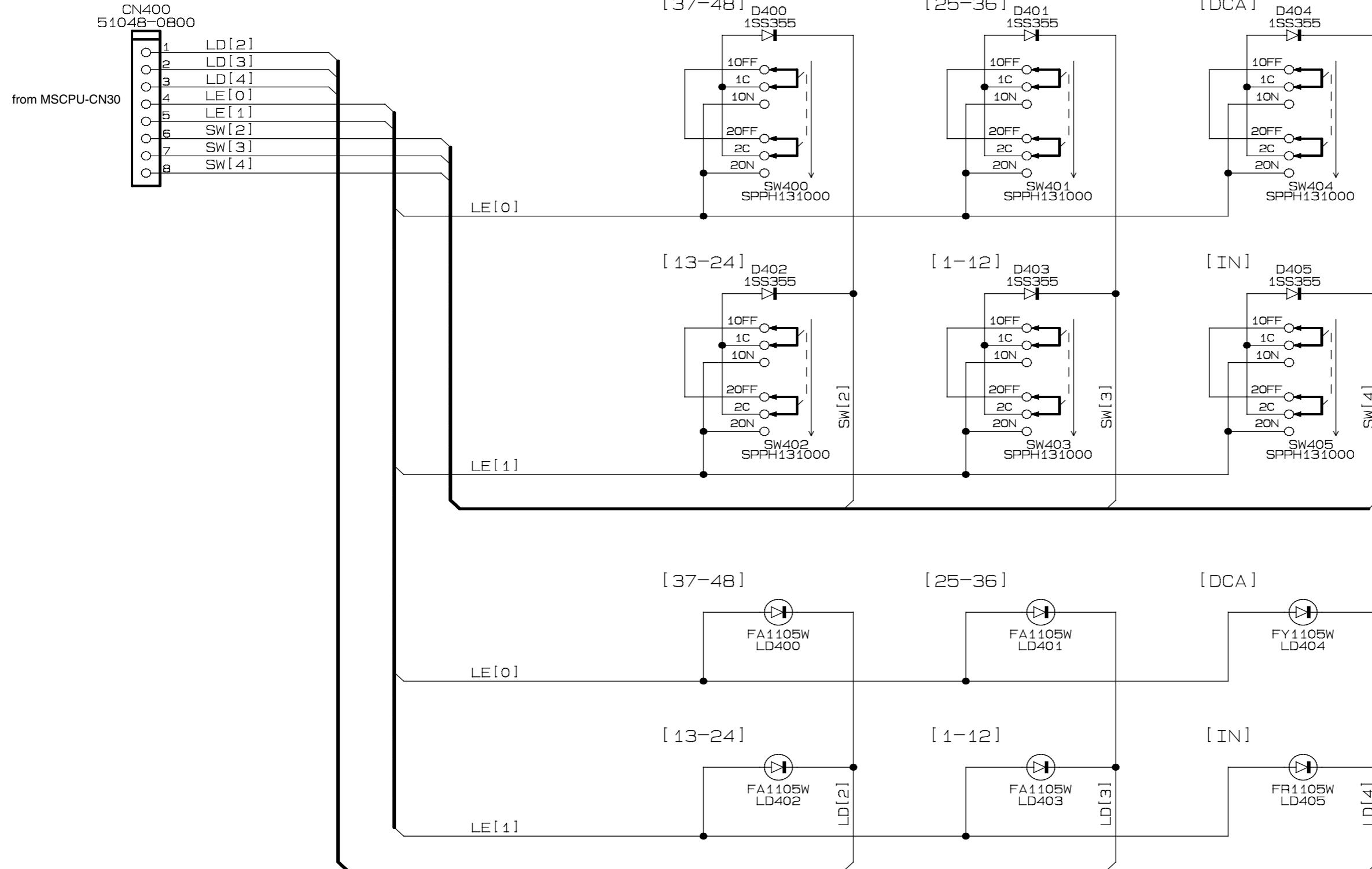
CS1D



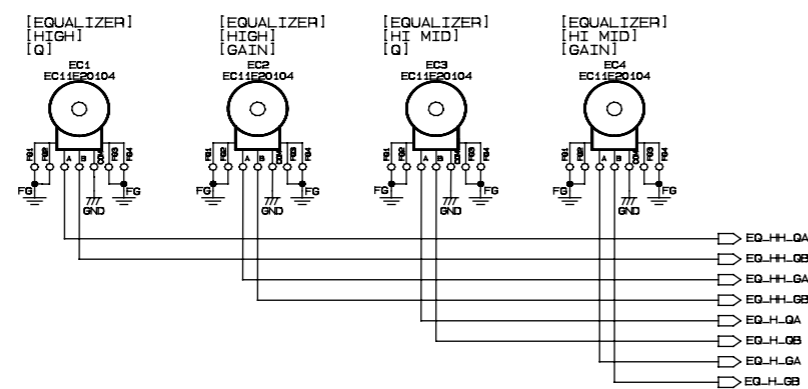
1
2
3
4
5
6

PNM4 CIRCUIT DIAGRAM (CS1D)

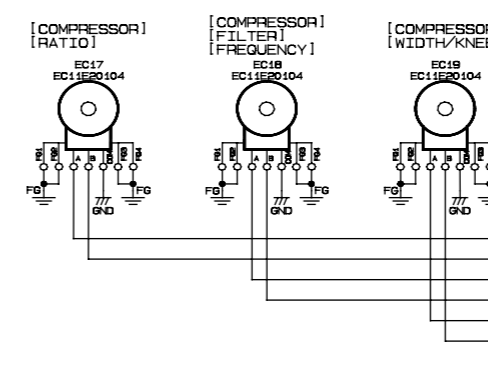
CS1D



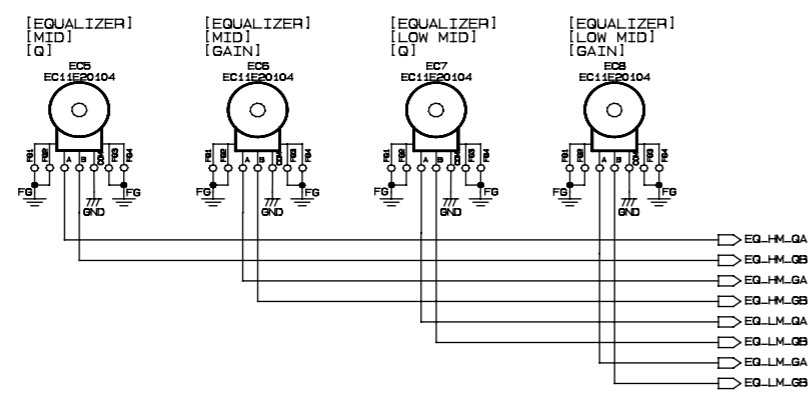
[FADER STATUS]



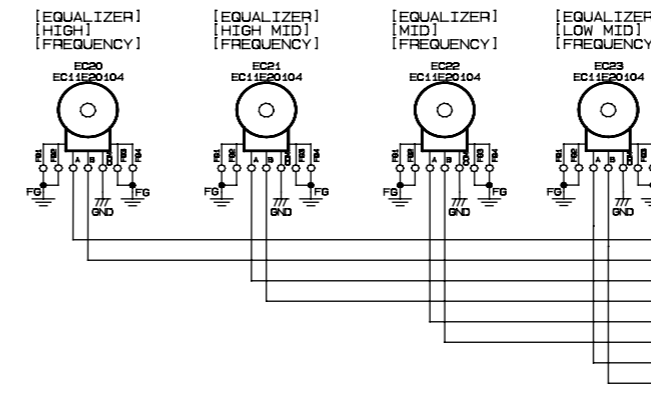
009+03
009+03
009+03
009+03
009+03
009+03
009+03
009+03
009+03
009+03



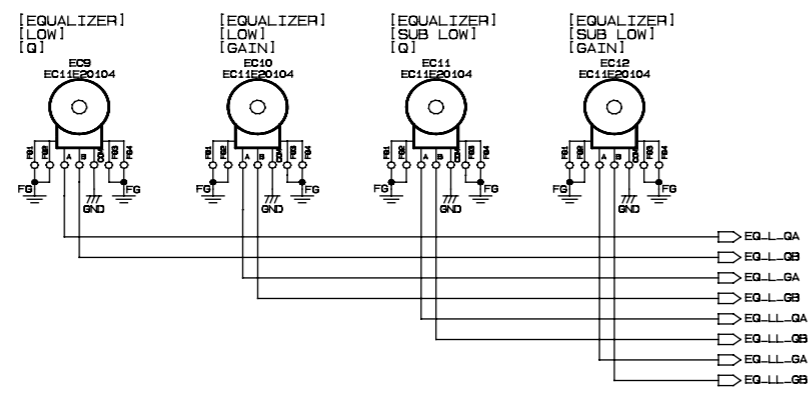
009+02
009+02
009+02
009+02
009+02
009+02



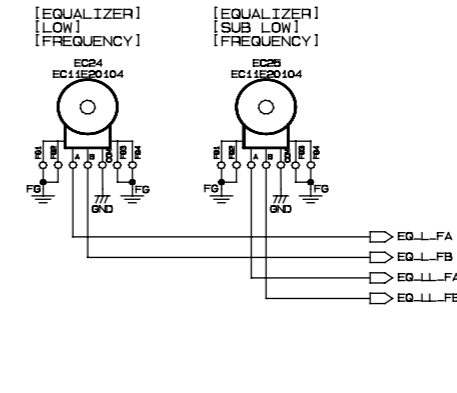
009+04
009+04
009+04
009+04
009+04
009+04
009+04
009+04
009+04
009+04



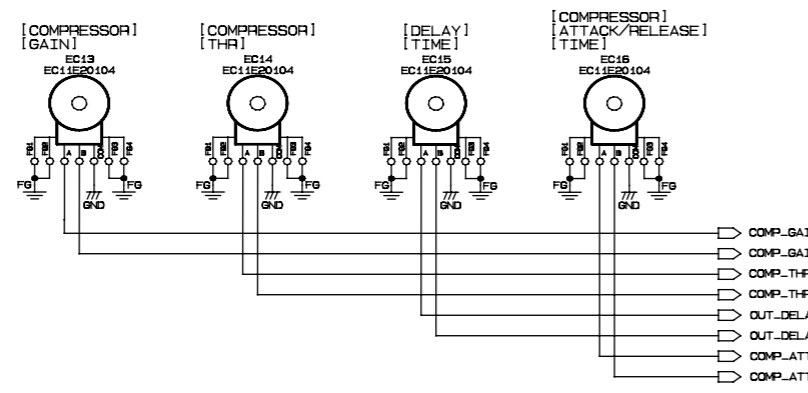
009+03
009+03
009+04
009+04
009+04
009+04
009+04
009+04
009+04
009+04



009+02
009+02
009+02
009+02
009+02
009+02
009+02
009+02
009+02
009+02



009+02
009+02
009+02
009+02

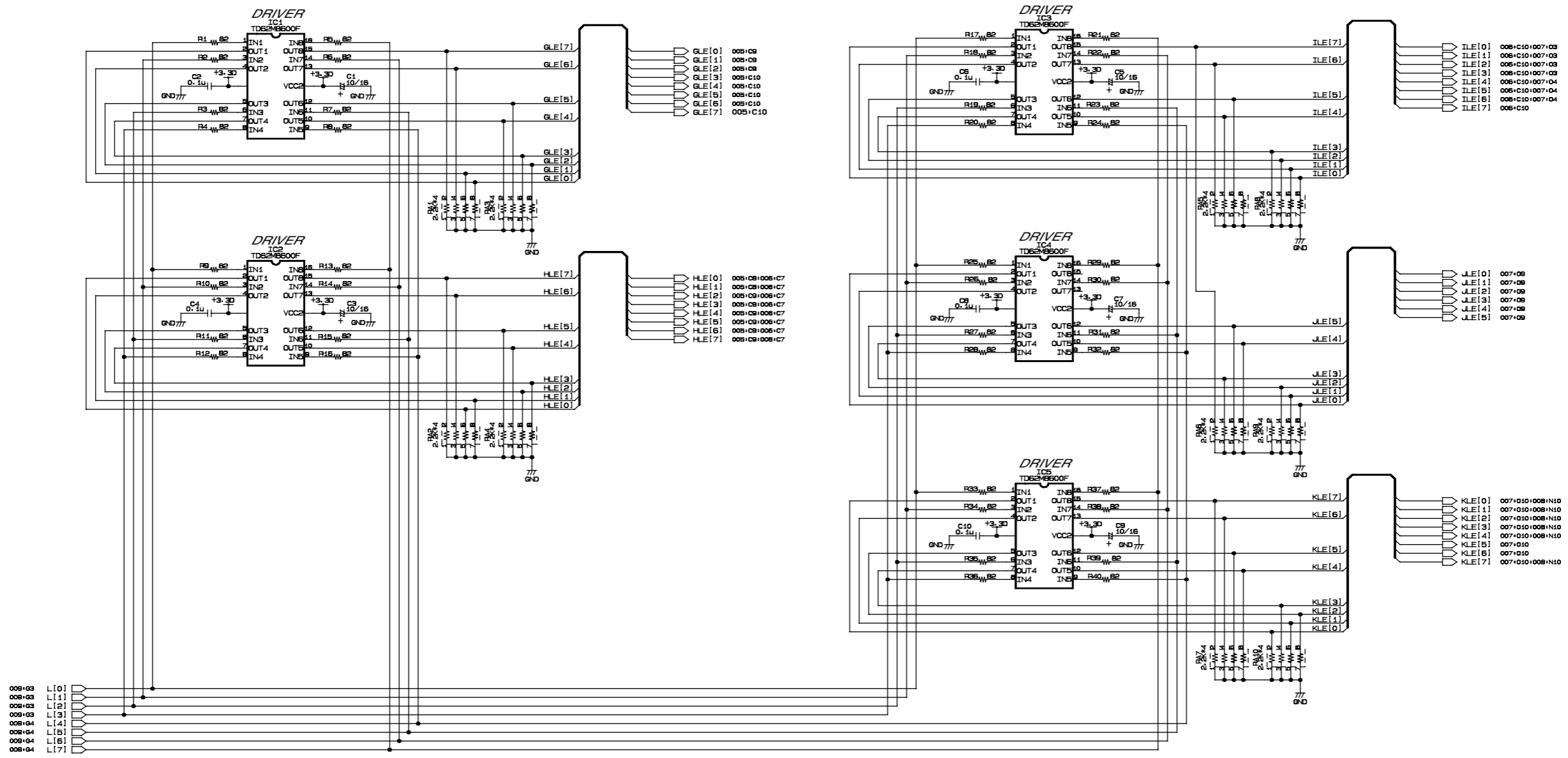


009+03
009+03
009+03
009+03
009+02
009+02
009+02
009+02
009+02
009+02

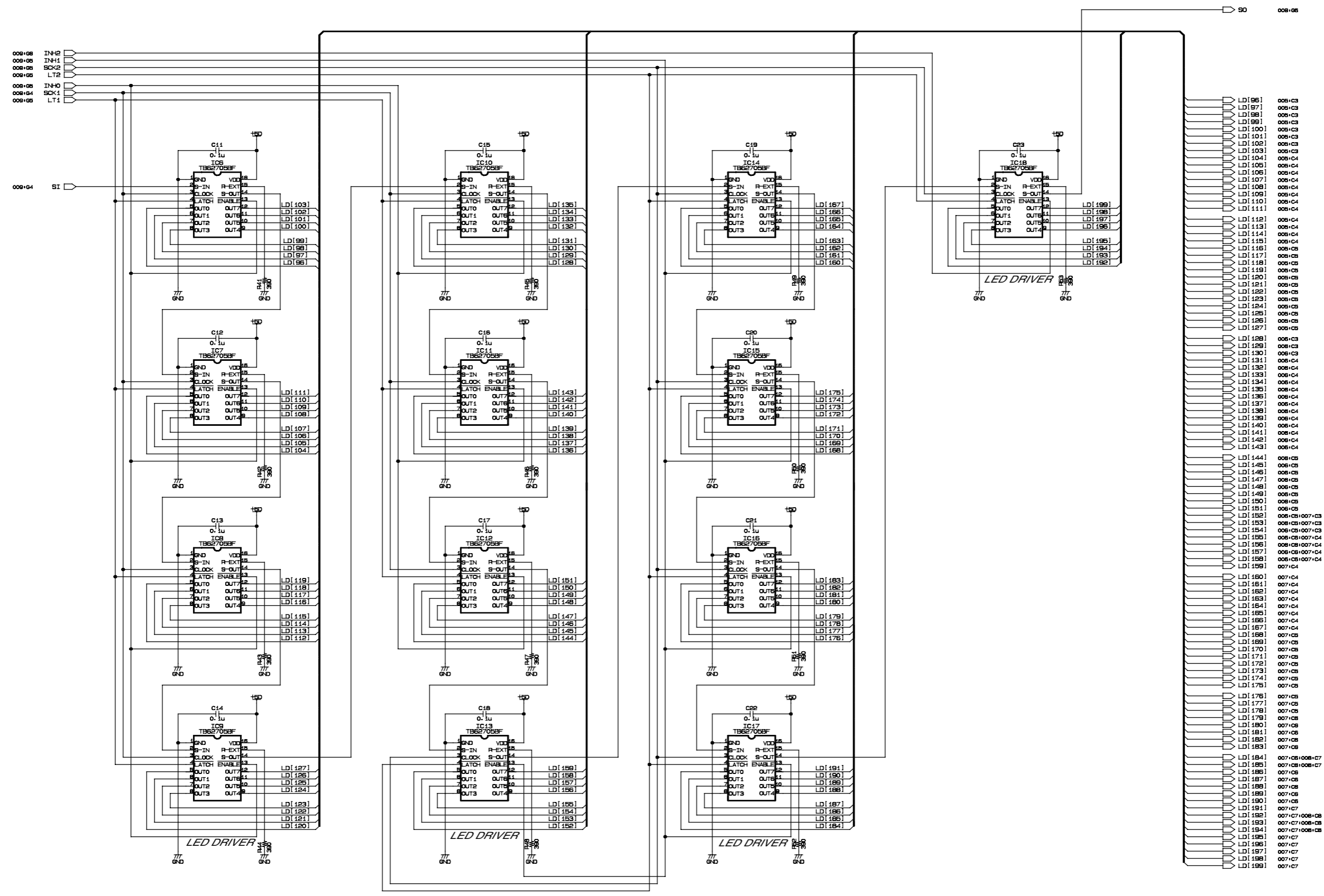
[DELAY], [COMPRESSOR], [EQUALIZER]

PNOS1L CIRCUIT DIAGRAM 003 (CS1D)

CS1D



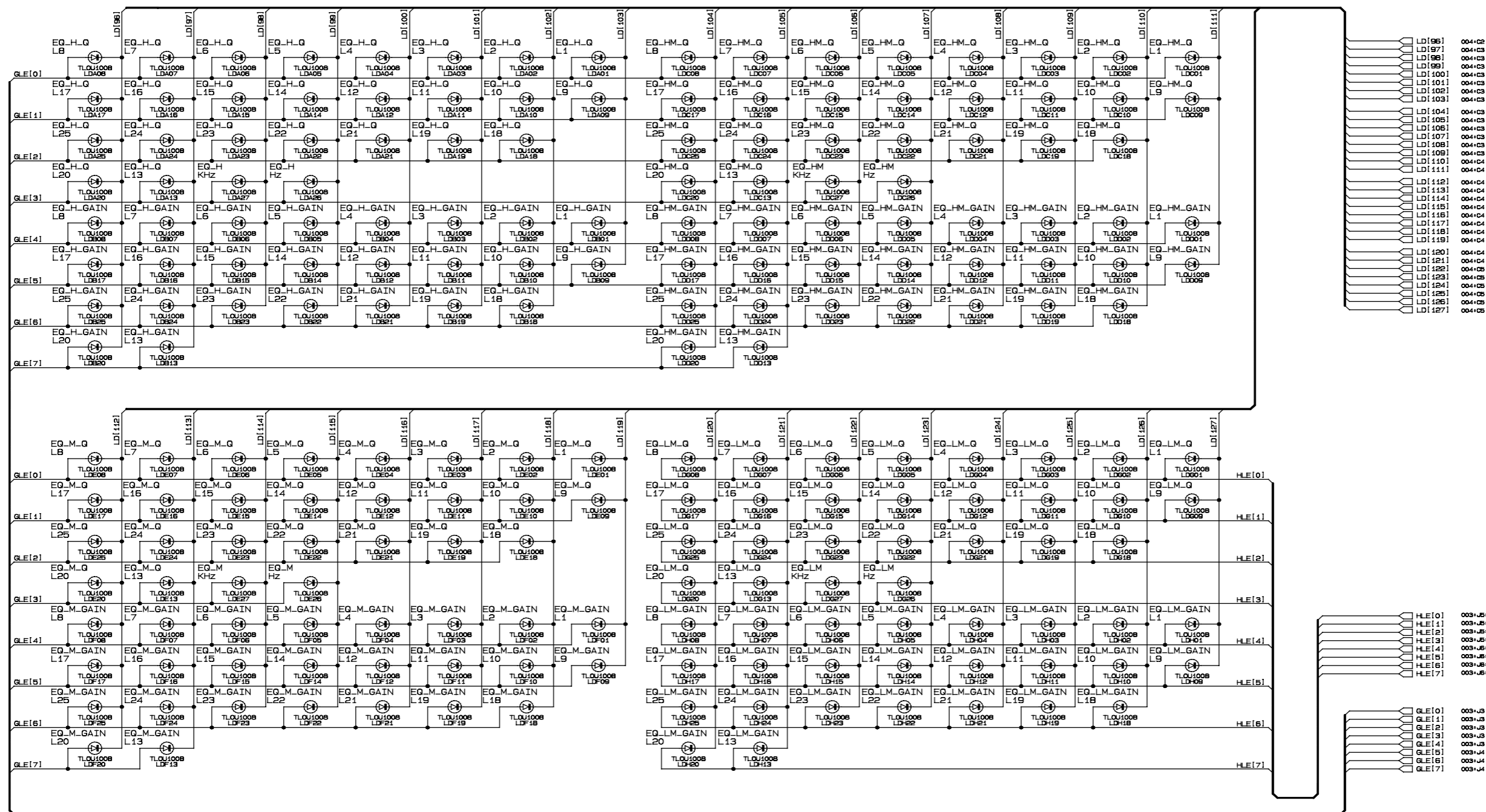
LED/SW SOURCE DRIVER



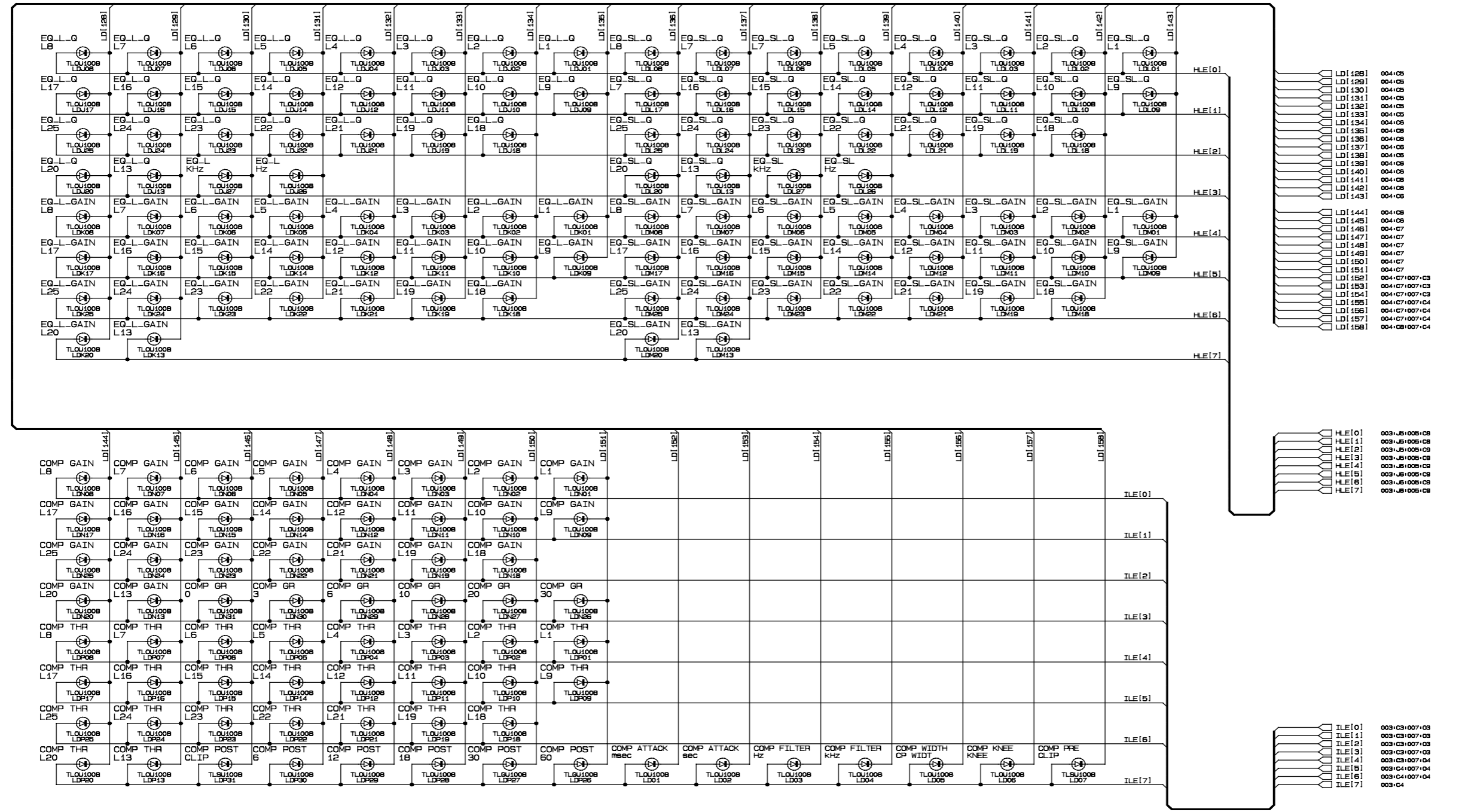
LED SCAN DRIVER

PNOS1L CIRCUIT DIAGRAM 005 (CS1D)

CS1D



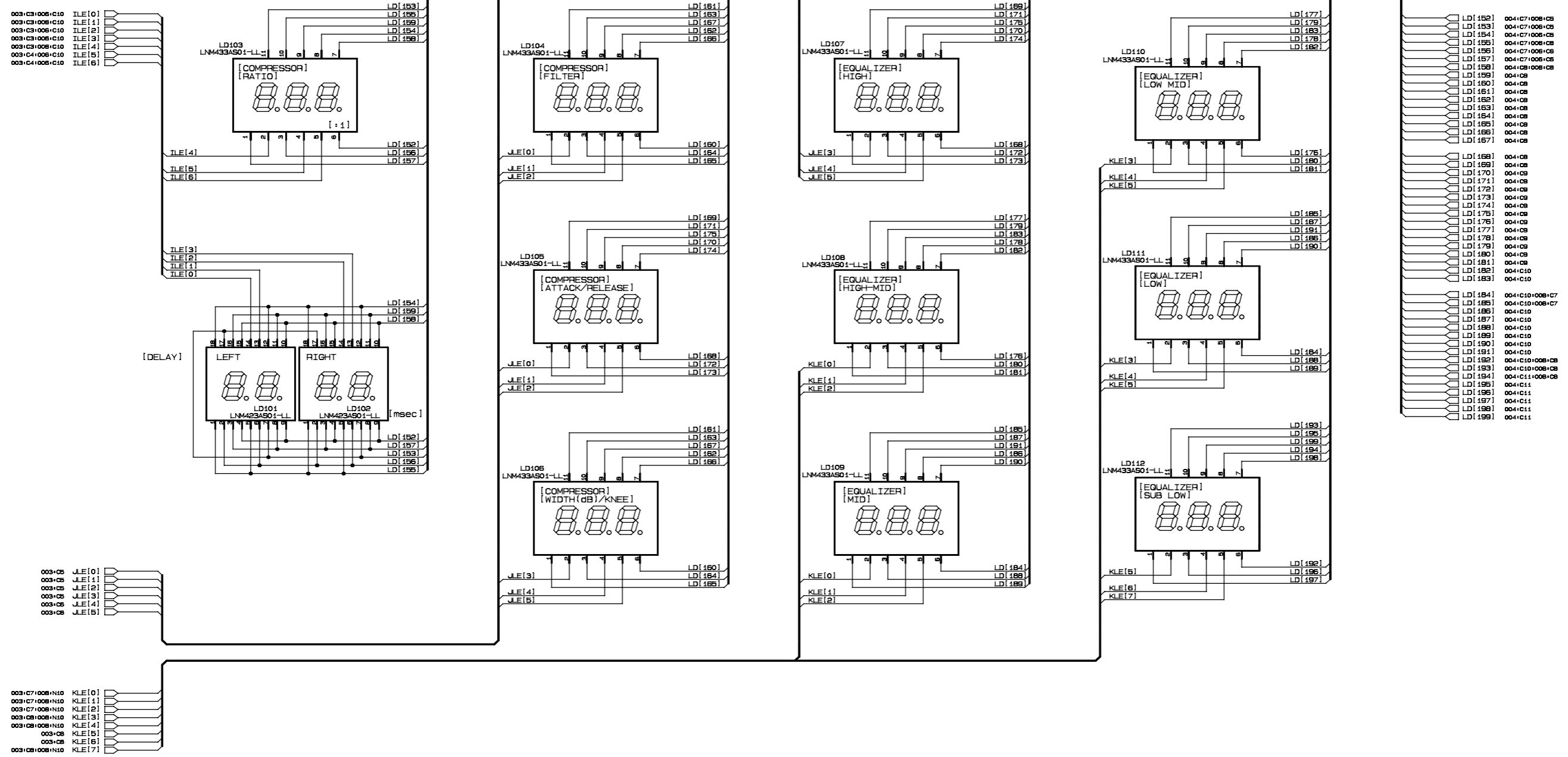
[EQUALIZER]



[EQUALIZER]
[COMPRESSOR]

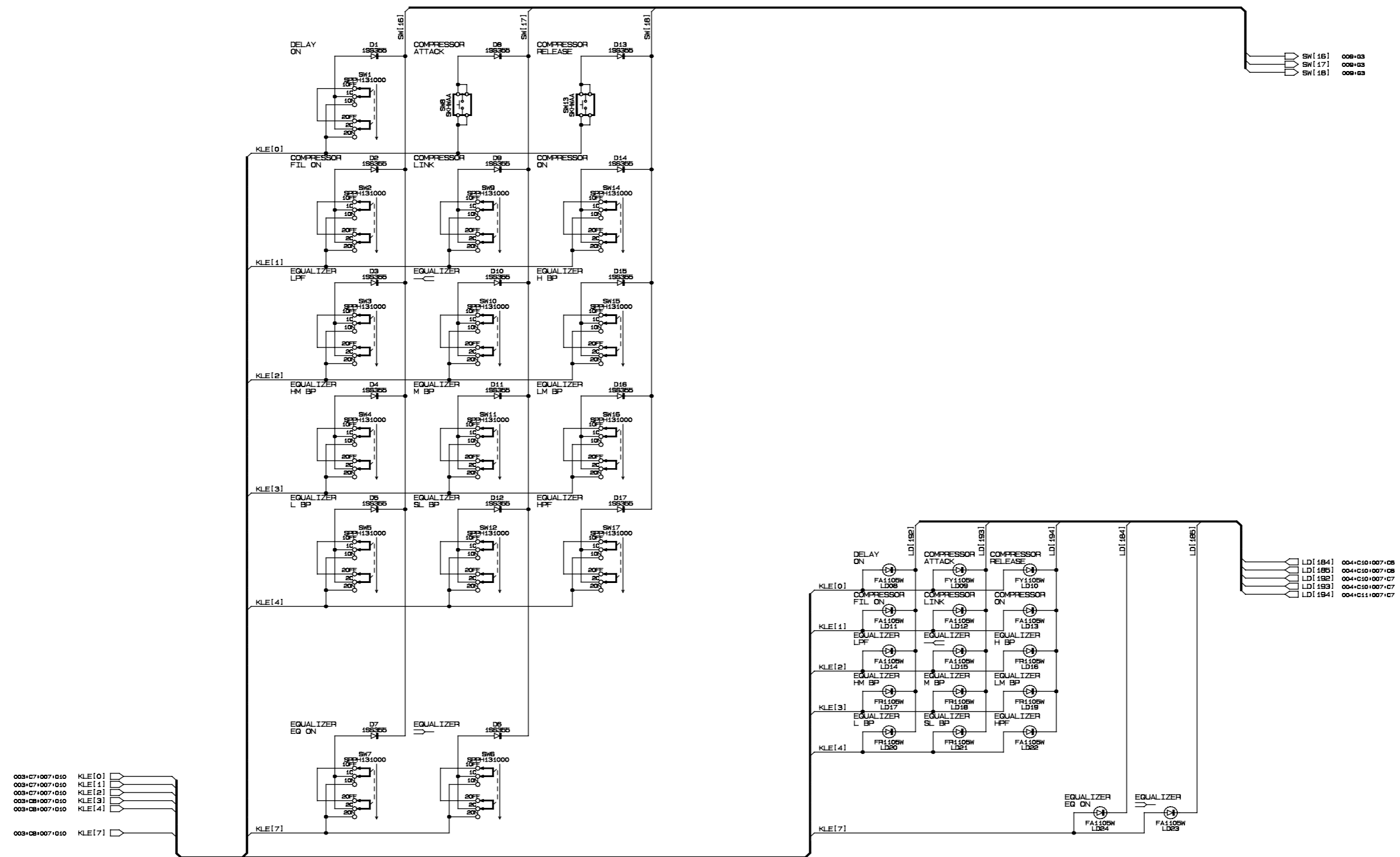
PNOS1L CIRCUIT DIAGRAM 007 (CS1D)

CS1D



- LD[152] 004:C7:008:CS
- LD[153] 004:C7:008:CS
- LD[154] 004:C7:008:CS
- LD[155] 004:C7:008:CS
- LD[156] 004:C7:008:CS
- LD[157] 004:C7:008:CS
- LD[158] 004:C8:008:CS
- LD[159] 004:CS
- LD[160] 004:CS
- LD[161] 004:CS
- LD[162] 004:CS
- LD[163] 004:CS
- LD[164] 004:CS
- LD[165] 004:CS
- LD[166] 004:CS
- LD[167] 004:CS
- LD[168] 004:CS
- LD[169] 004:CS
- LD[170] 004:CS
- LD[171] 004:CS
- LD[172] 004:CS
- LD[173] 004:CS
- LD[174] 004:CS
- LD[175] 004:CS
- LD[176] 004:CS
- LD[177] 004:CS
- LD[178] 004:CS
- LD[179] 004:CS
- LD[180] 004:CS
- LD[181] 004:CS
- LD[182] 004:C10
- LD[183] 004:C10
- LD[184] 004:C10:008:C7
- LD[185] 004:C10:008:C7
- LD[186] 004:C10
- LD[187] 004:C10
- LD[188] 004:C10
- LD[189] 004:C10
- LD[190] 004:C10
- LD[191] 004:C10
- LD[192] 004:C10:008:CS
- LD[193] 004:C10:008:CS
- LD[194] 004:C11:008:CS
- LD[195] 004:C11
- LD[196] 004:C11
- LD[197] 004:C11
- LD[198] 004:C11
- LD[199] 004:C11

[DELAY], [COMPRESSOR], [EQUALIZER]



003+07+007+010 KLE[0]
 003+07+007+010 KLE[1]
 003+07+007+010 KLE[2]
 003+08+007+010 KLE[3]
 003+08+007+010 KLE[4]
 003+08+007+010 KLE[7]

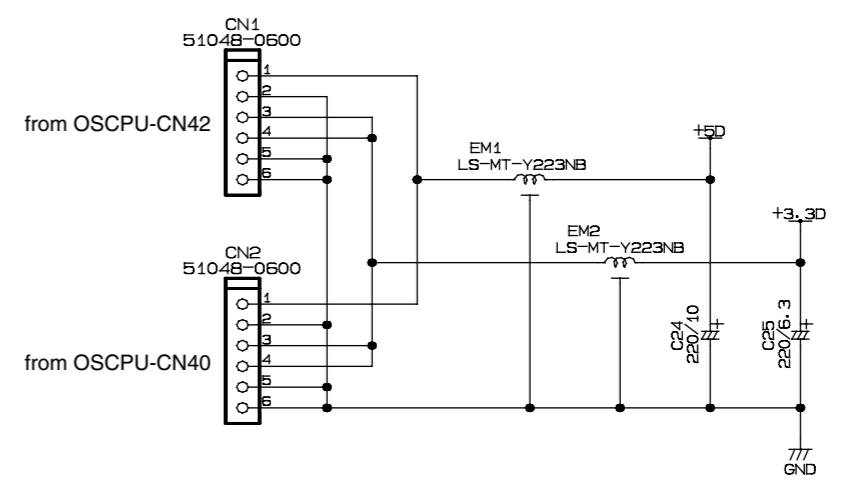
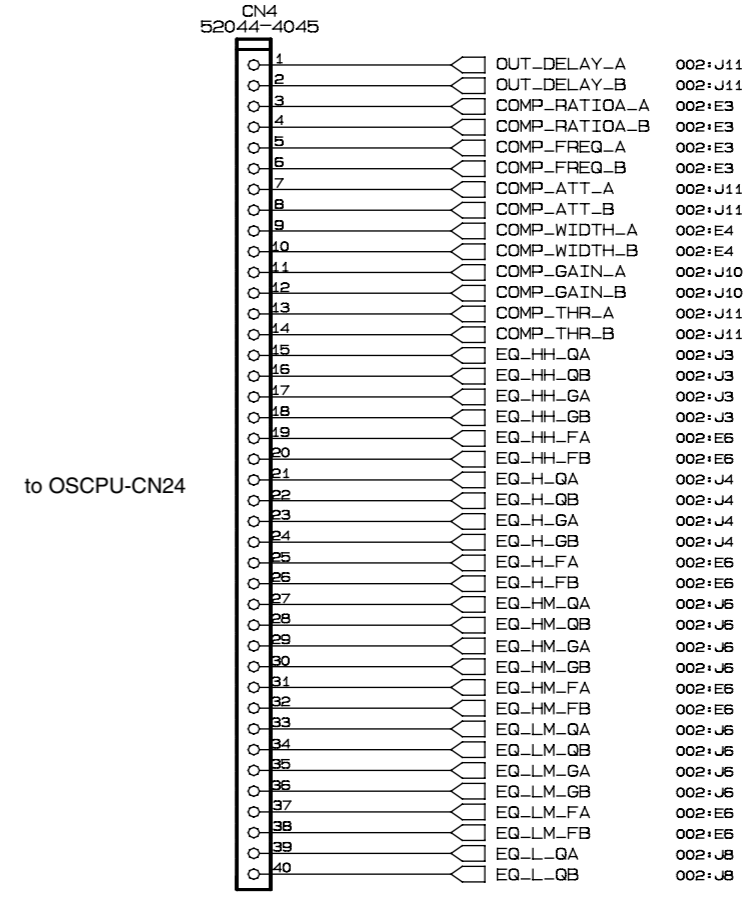
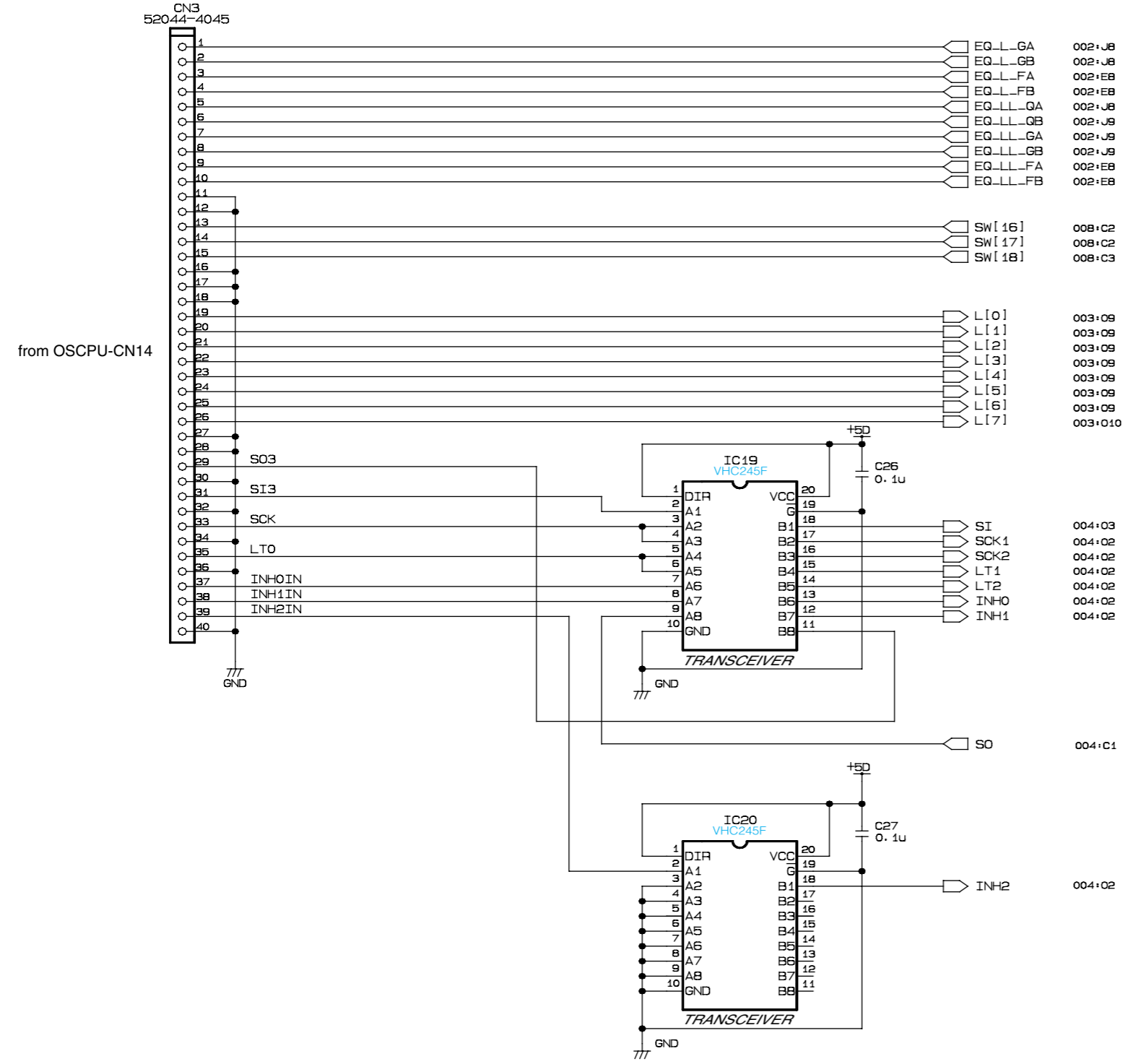
SW[16] 008+03
 SW[17] 008+03
 SW[18] 008+03

LD[184] 004+C10+007+08
 LD[185] 004+C10+007+08
 LD[192] 004+C10+007+07
 LD[193] 004+C10+007+07
 LD[194] 004+C11+007+07

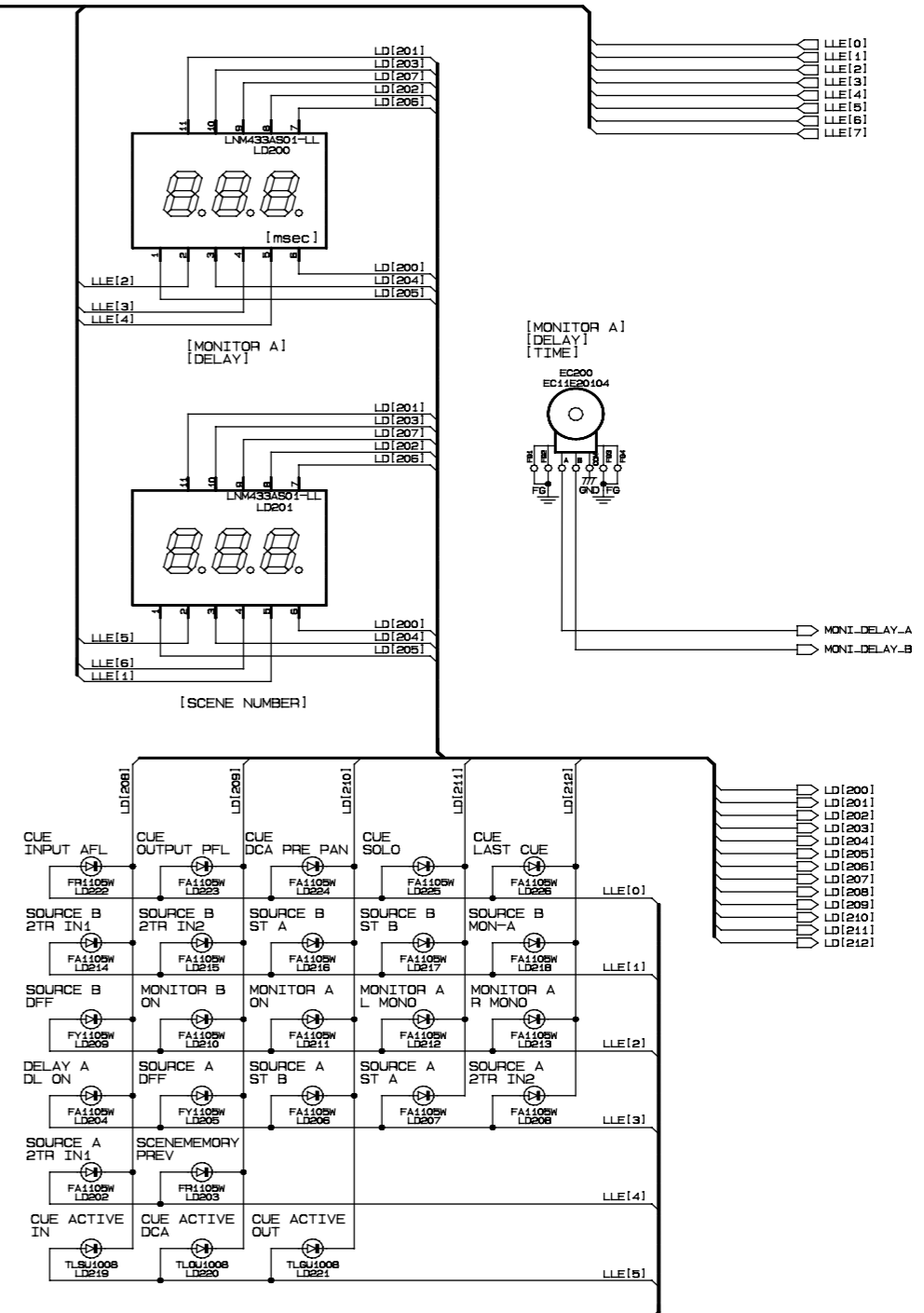
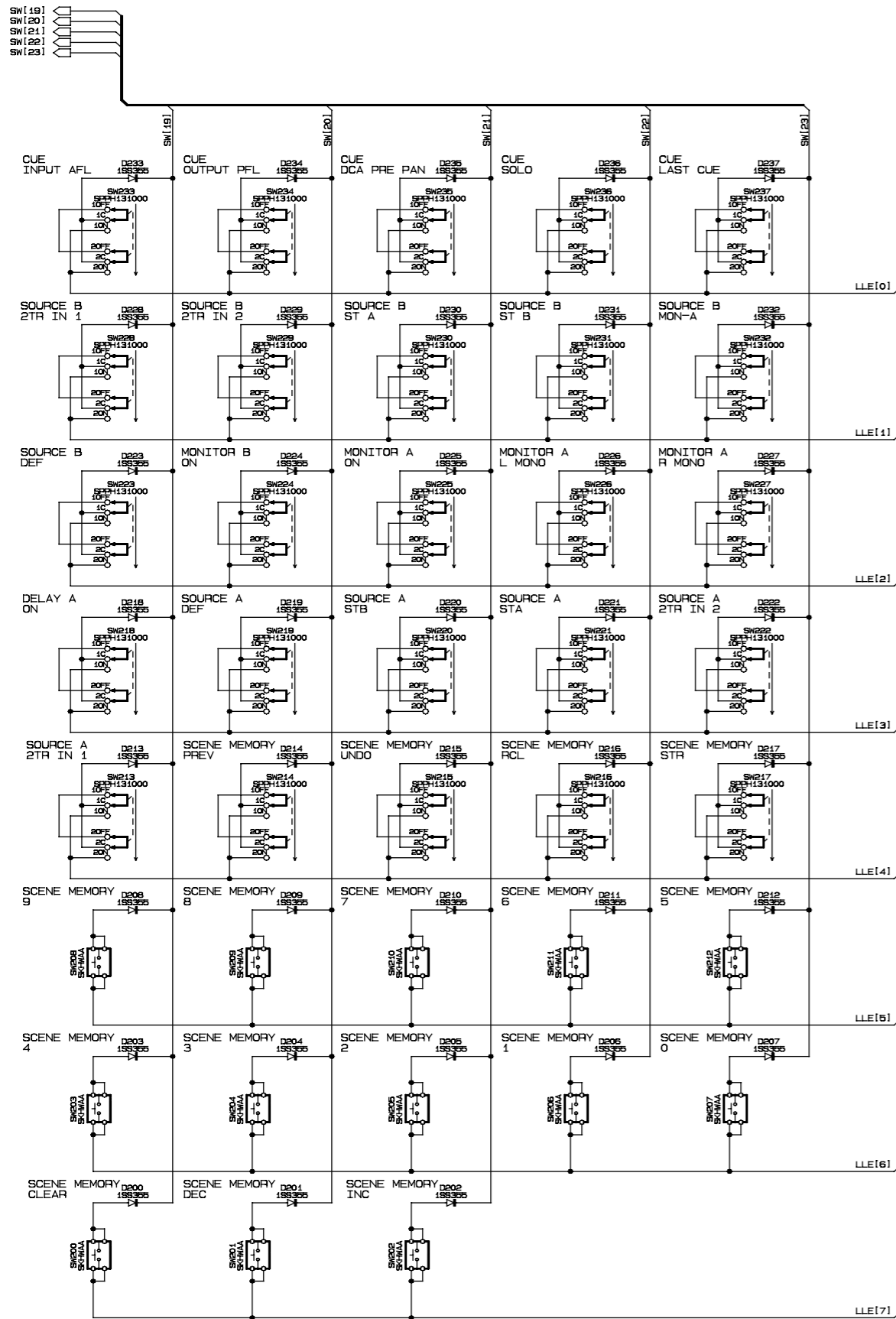
[DELAY], [COMPRESSOR], [EQUALIZER]

PNOS1L CIRCUIT DIAGRAM 009 (CS1D)

CS1D



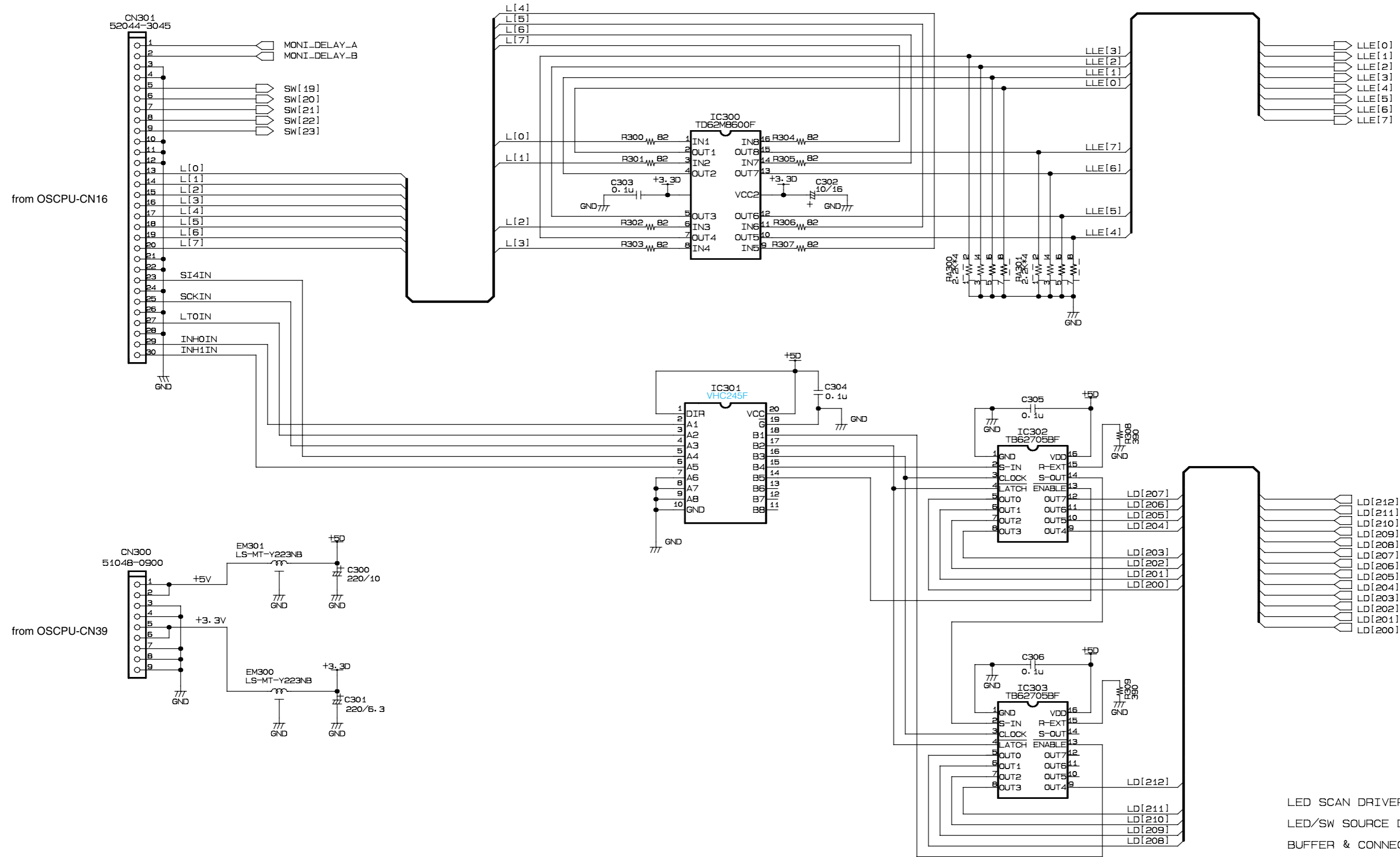
BUFFER & CONNECTOR



[SCENE MEMORY]
[MONITOR A]
[MONITOR B]
[CUE]

PNOS1C CIRCUIT DIAGRAM 2/2 (CS1D)

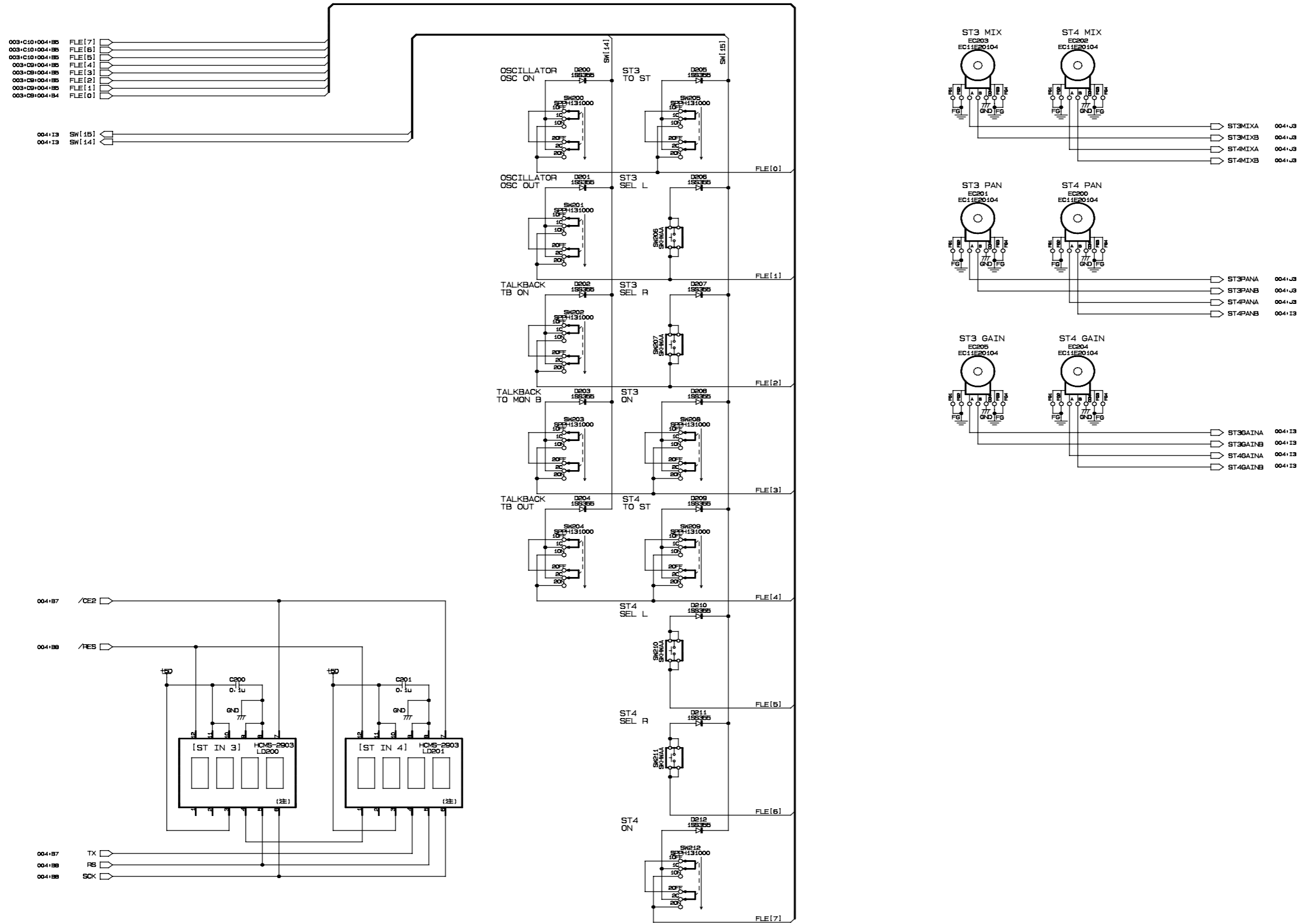
CS1D



LED SCAN DRIVER
LED/SW SOURCE DRIVER
BUFFER & CONNECTOR

PNOS1R CIRCUIT DIAGRAM 002 (CS1D)

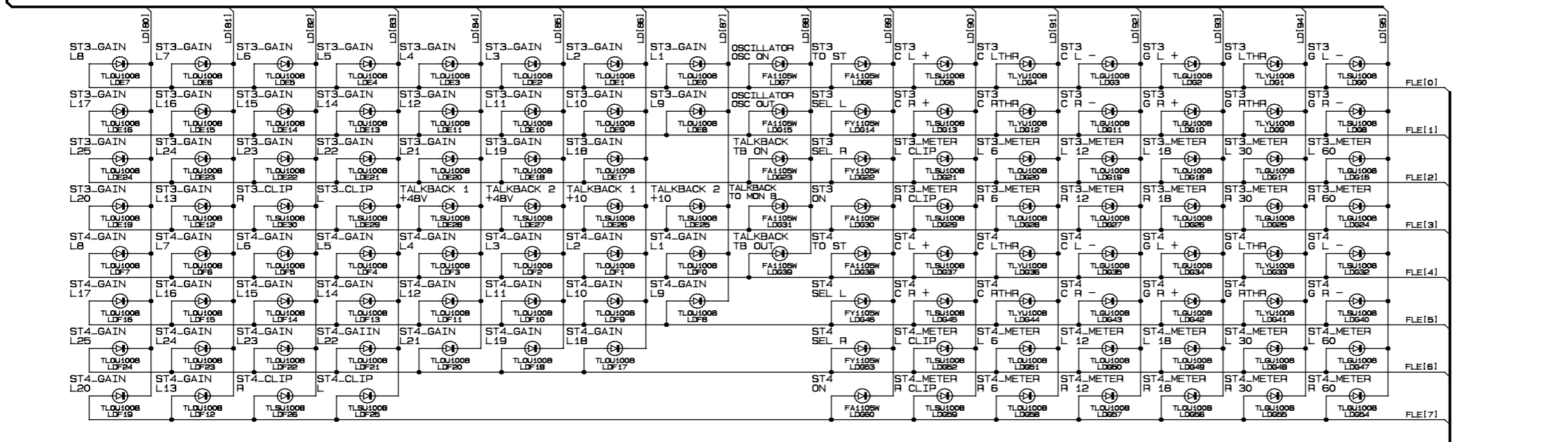
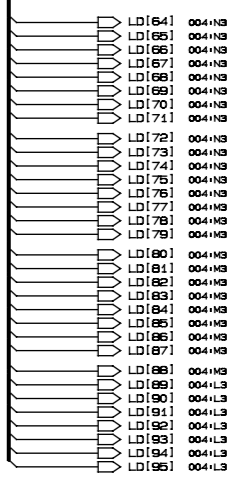
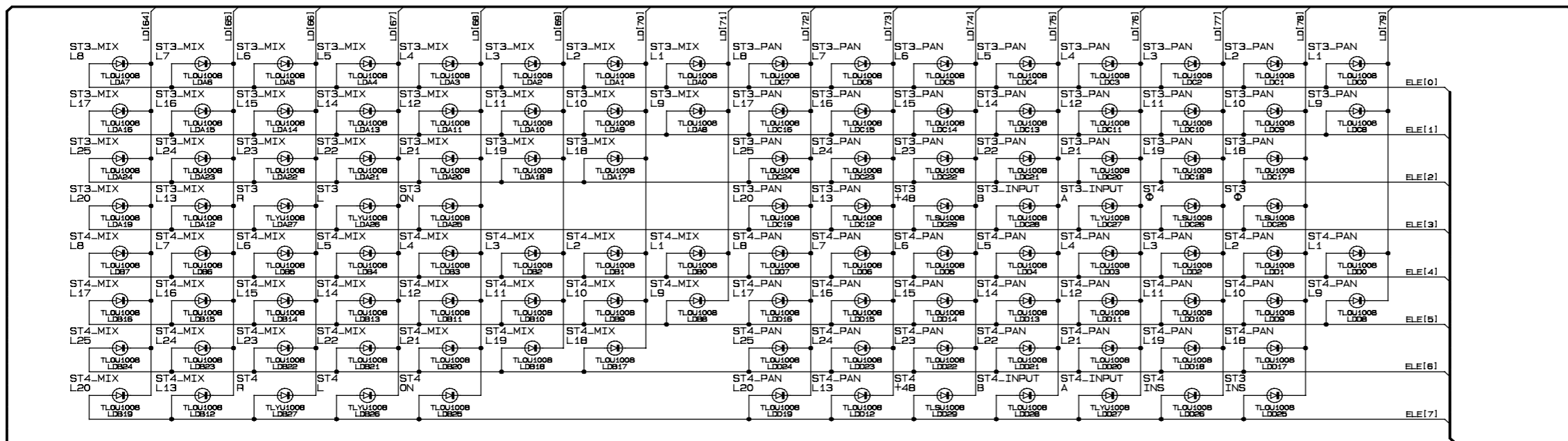
CS1D



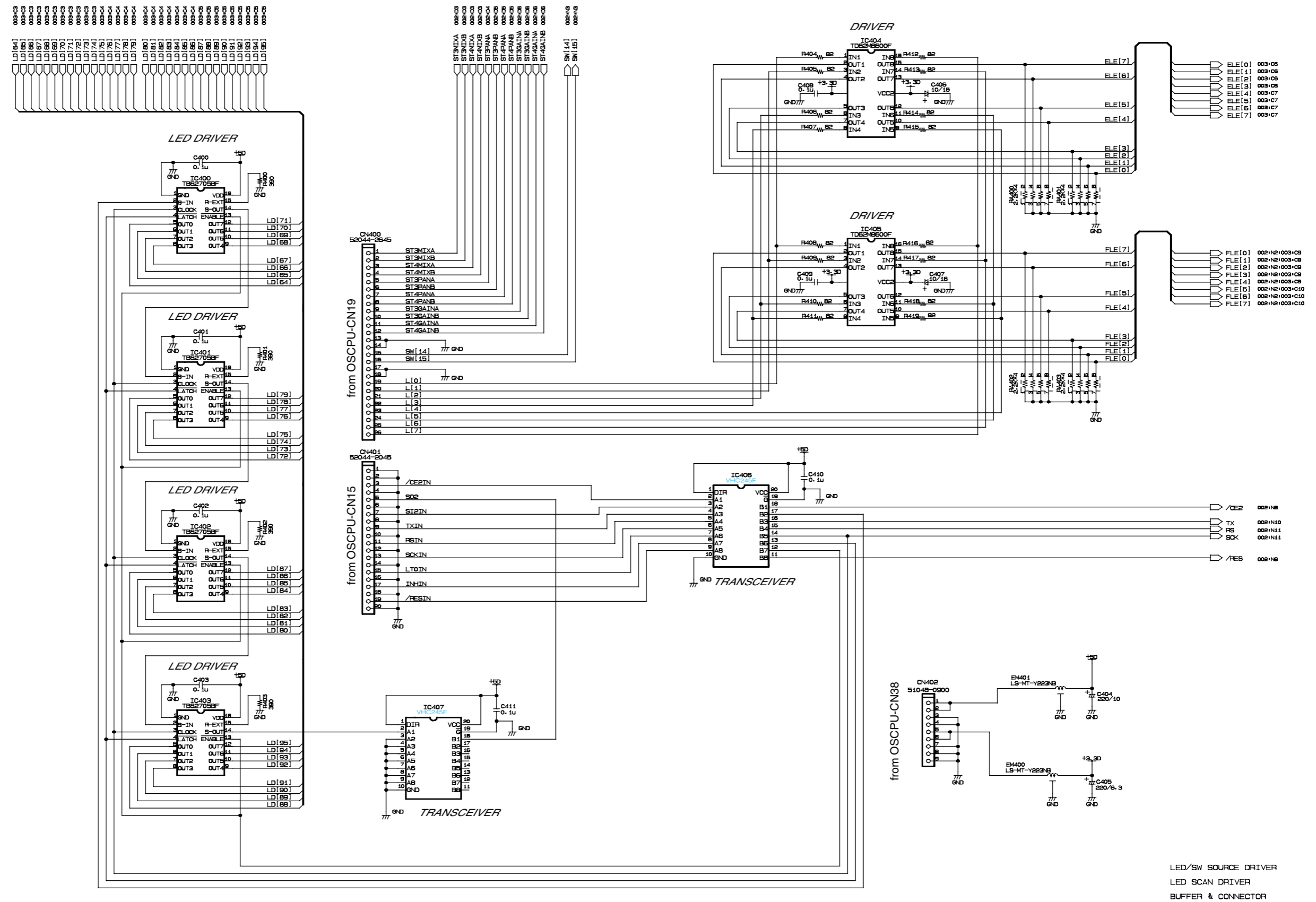
[ST IN 3]
 [ST IN 4]
 [TALKBACK]
 [OSCILLATOR]

PNOS1R CIRCUIT DIAGRAM 003 (CS1D)

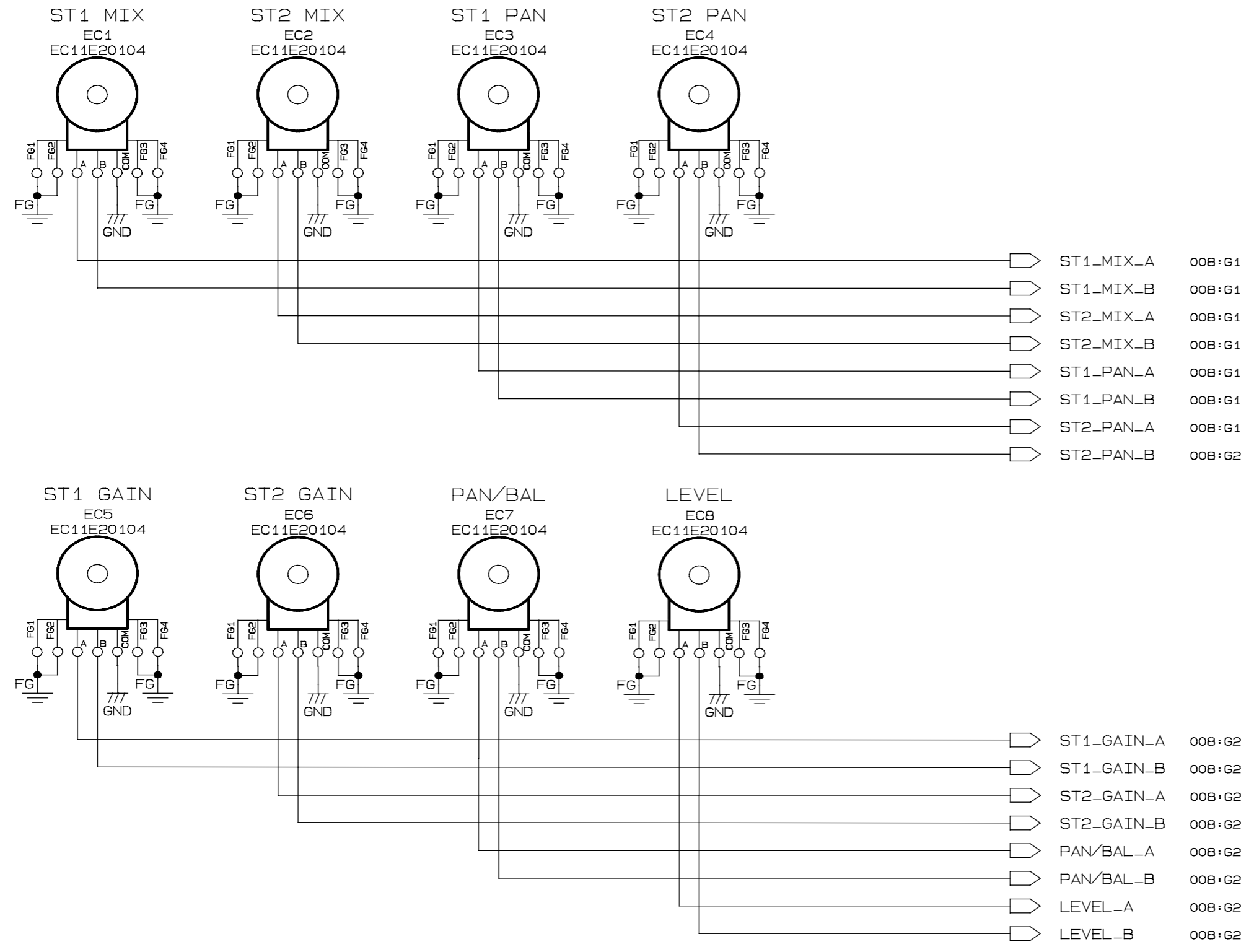
CS1D



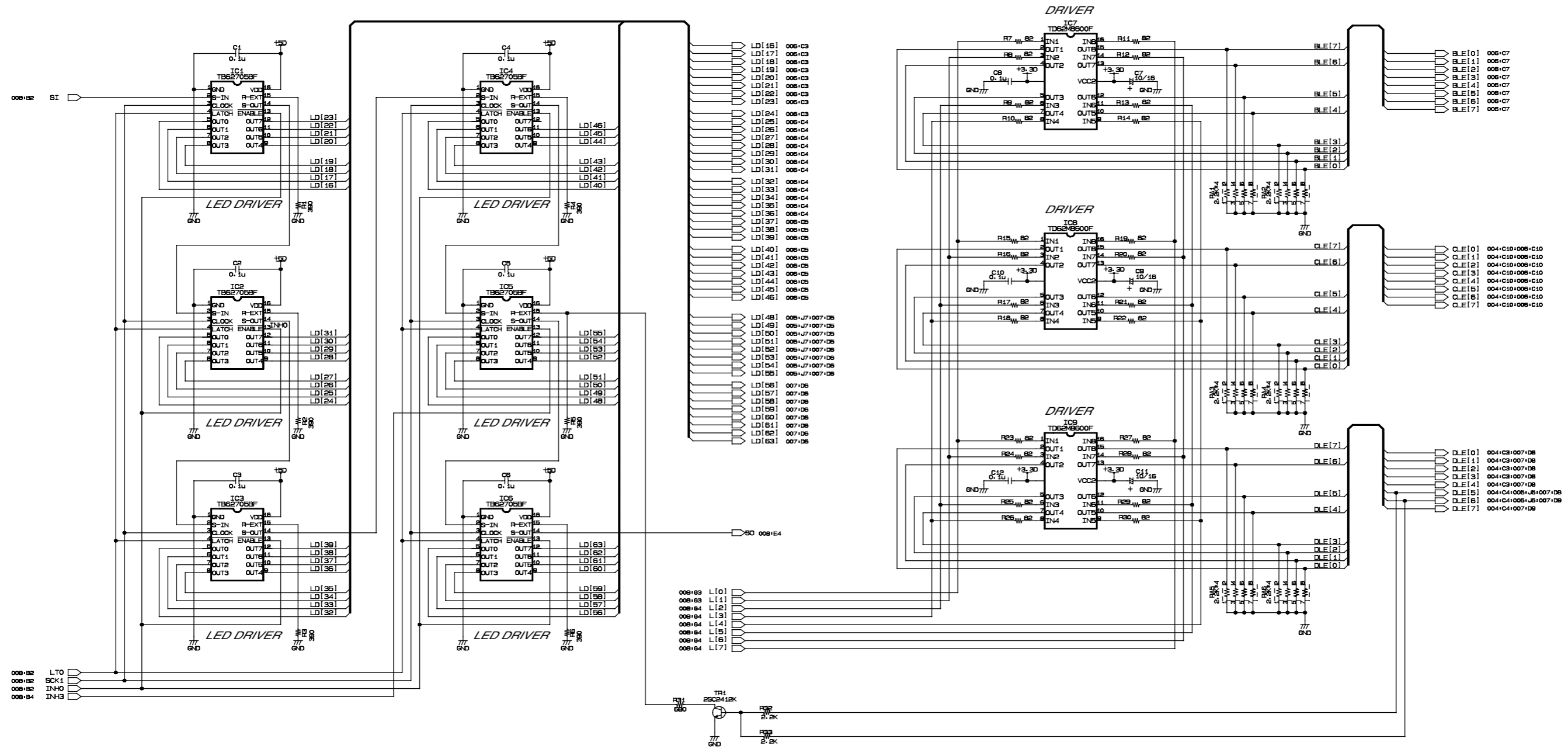
[ST IN 3]
 [ST IN 4]
 [TALKBACK]
 [OSCILLATOR]



LED/SW SOURCE DRIVER
LED SCAN DRIVER
BUFFER & CONNECTOR



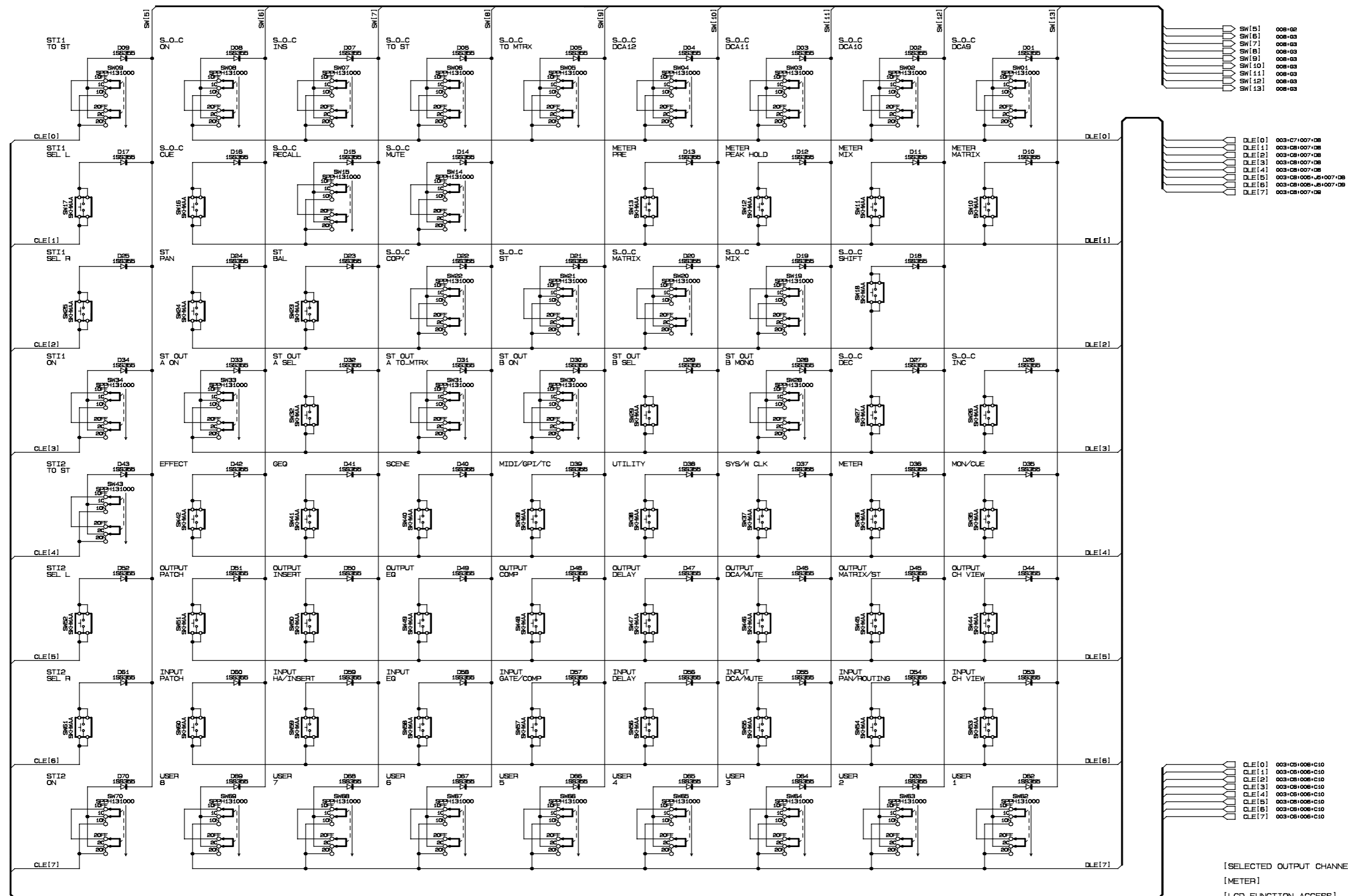
[ST IN 1], [ST IN 2]



LED SCAN DRIVER
LED/SW SOURCE DRIVER

PNOS2 CIRCUIT DIAGRAM 004 (CS1D)

CS1D



SW[5] 008+02
 SW[6] 008+03
 SW[7] 008+03
 SW[8] 008+03
 SW[9] 008+03
 SW[10] 008+03
 SW[11] 008+03
 SW[12] 008+03
 SW[13] 008+03

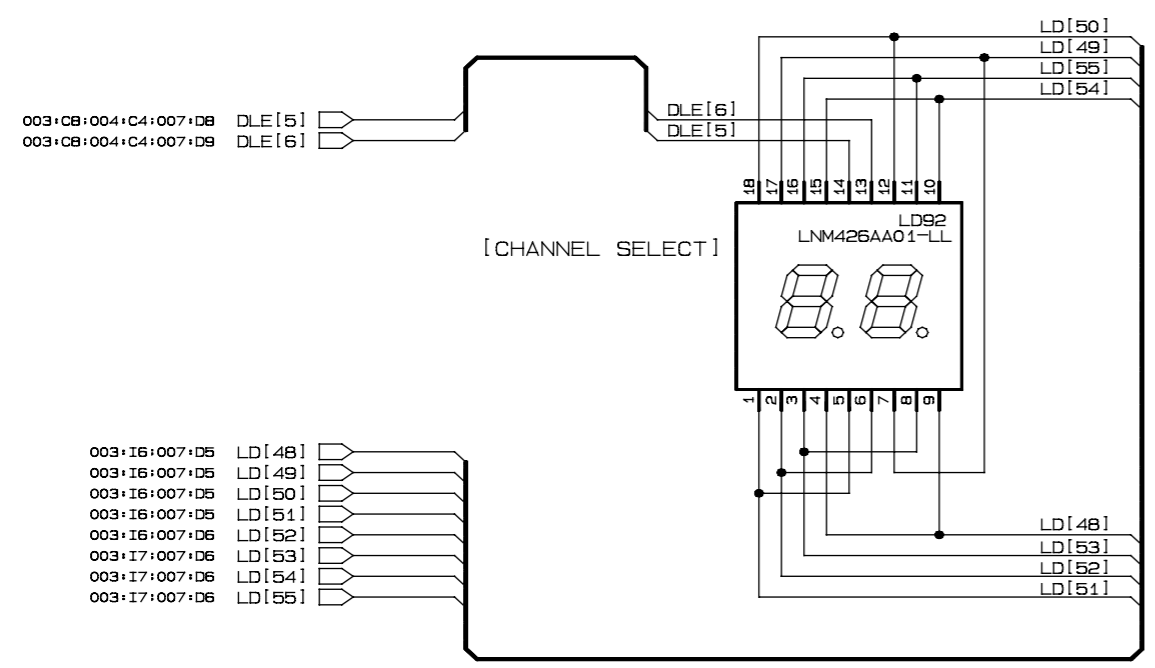
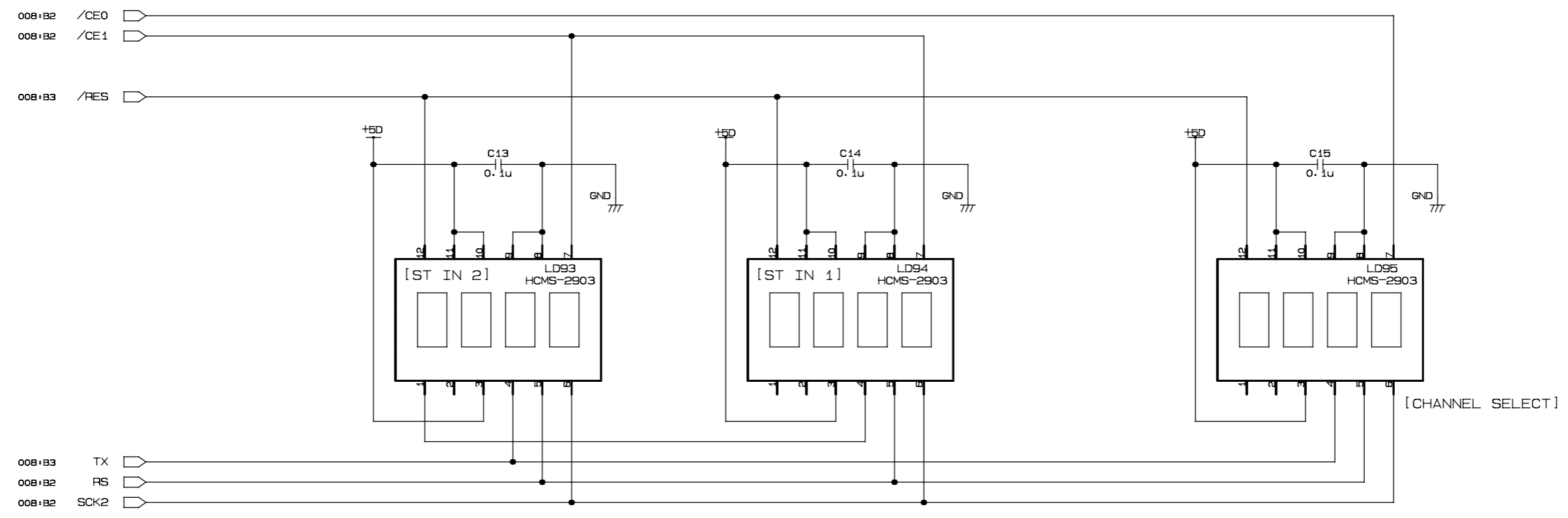
DLE[0] 003+C7+007+08
 DLE[1] 003+C8+007+08
 DLE[2] 003+C8+007+08
 DLE[3] 003+C8+007+08
 DLE[4] 003+C8+007+08
 DLE[5] 003+C8+005+06+007+08
 DLE[6] 003+C8+005+06+007+08
 DLE[7] 003+C8+007+08

DLE[0] 003+C5+006+C10
 DLE[1] 003+C8+006+C10
 DLE[2] 003+C8+006+C10
 DLE[3] 003+C8+006+C10
 DLE[4] 003+C8+006+C10
 DLE[5] 003+C8+006+C10
 DLE[6] 003+C8+006+C10
 DLE[7] 003+C8+006+C10

[SELECTED OUTPUT CHANNEL]
 [METER]
 [LCD FUNCTION ACCESS], [USER DEFINE]
 [ST IN 1], [ST IN 2]
 [ST OUTPUT A], [ST OUTPUT B]

PNOS2 CIRCUIT DIAGRAM 005 (CS1D)

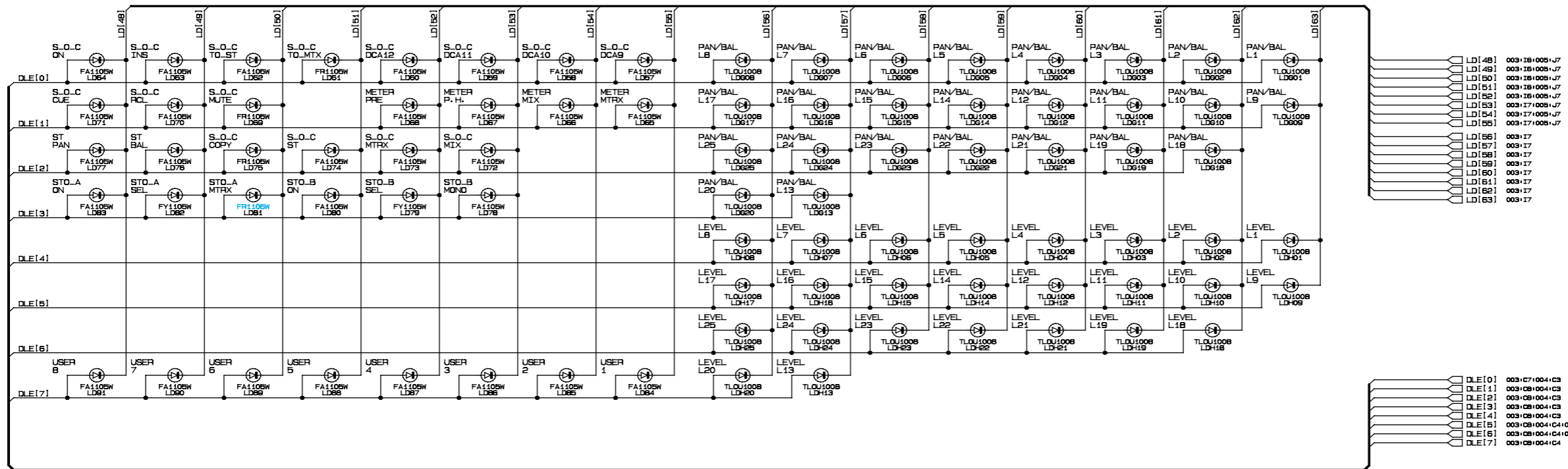
CS1D



[CHANNEL SELECT]
 [ST IN 1], [ST IN 2]

PNOS2 CIRCUIT DIAGRAM 007 (CS1D)

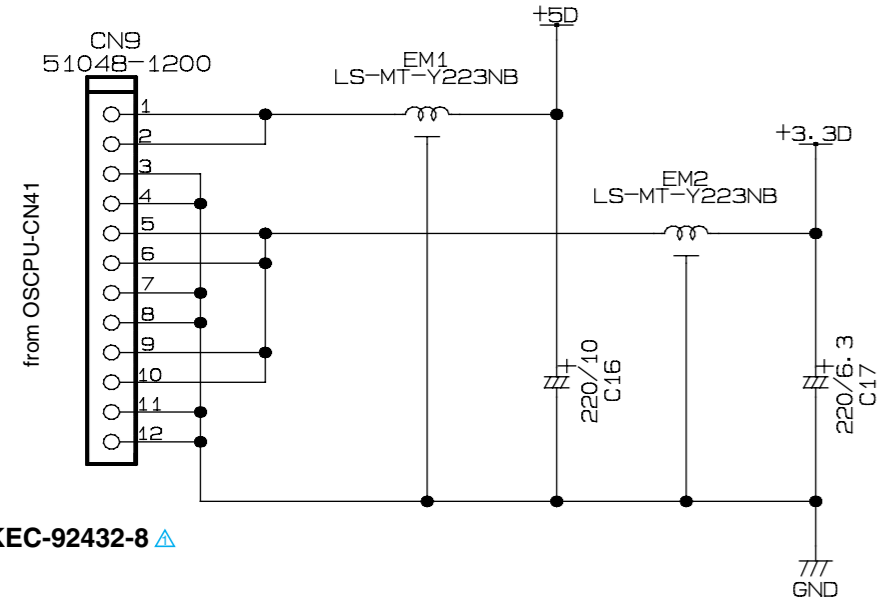
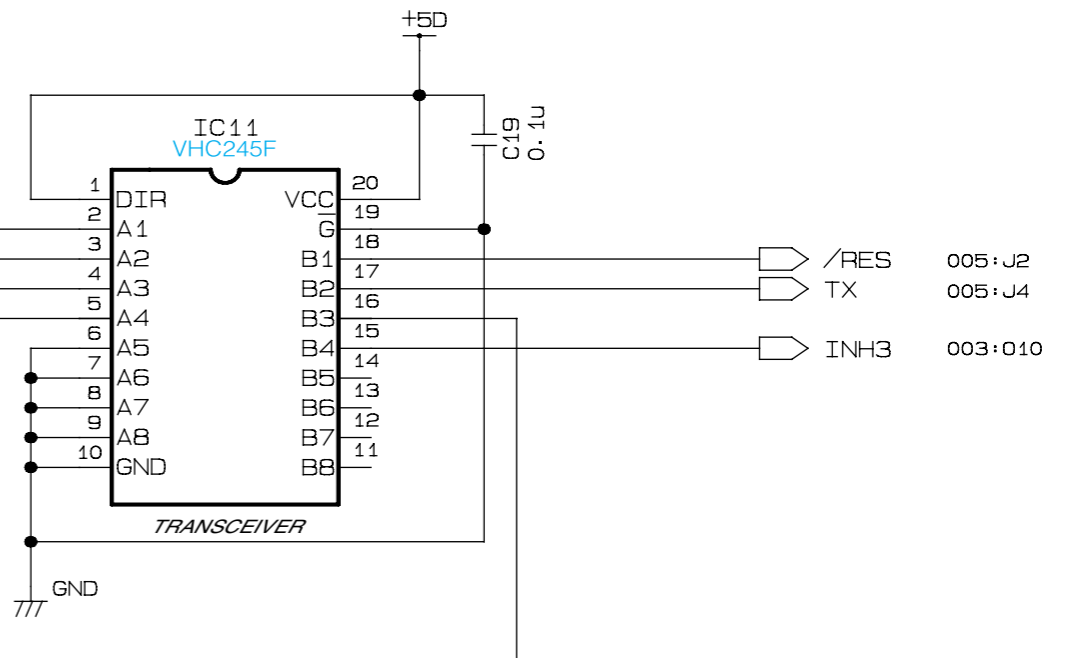
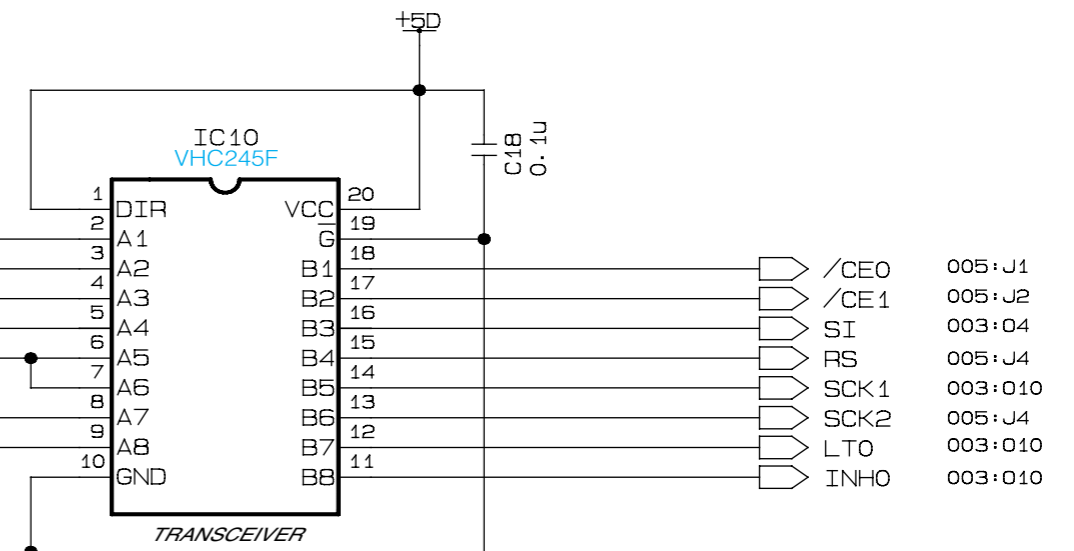
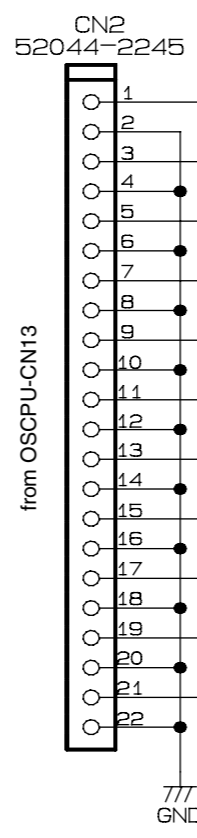
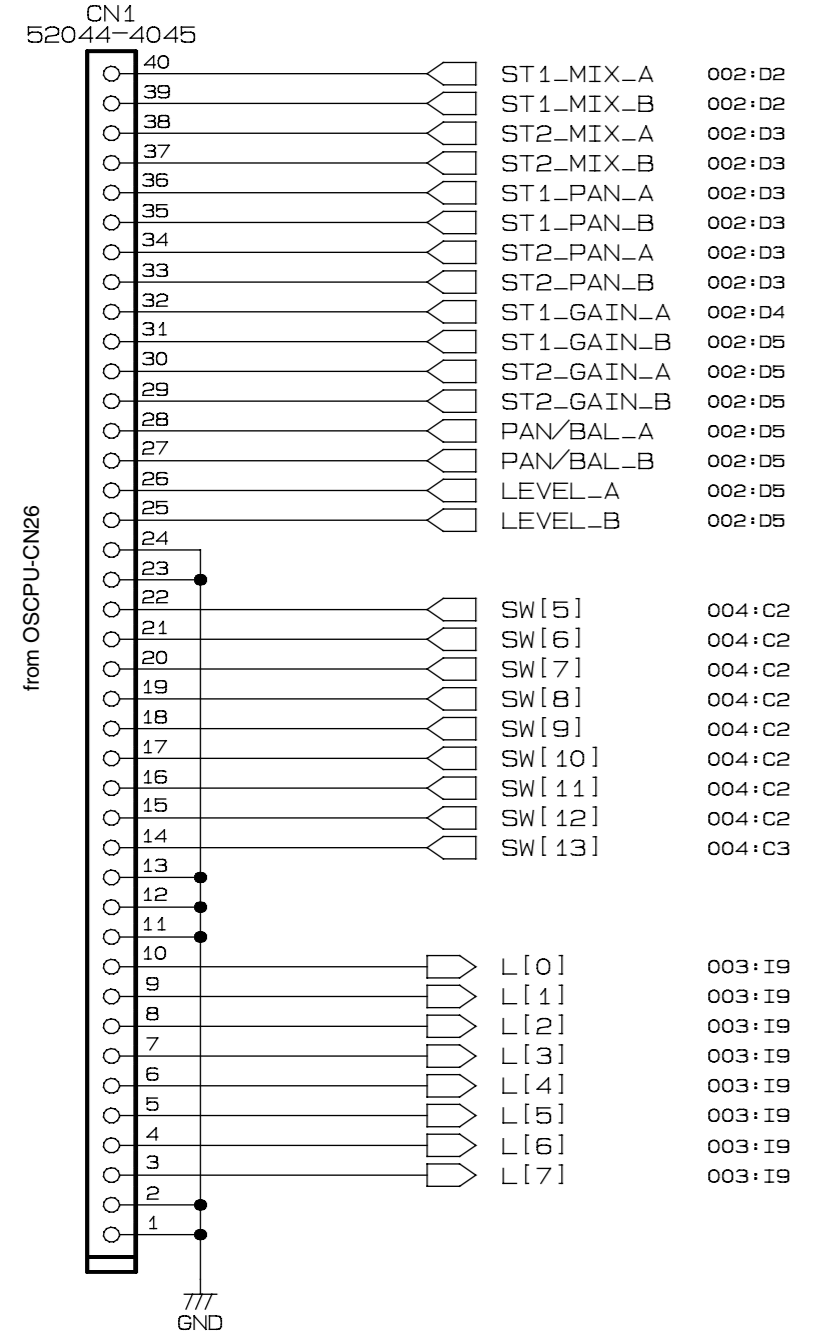
CS1D



[SELECTED OUTPUT CHANNEL]
 [METER]
 [USER DEFINE]
 [ST IN 1], [ST IN 2]
 [ST OUTPUT A], [ST OUTPUT B]

PNOS2 CIRCUIT DIAGRAM 008 (CS1D)

CS1D

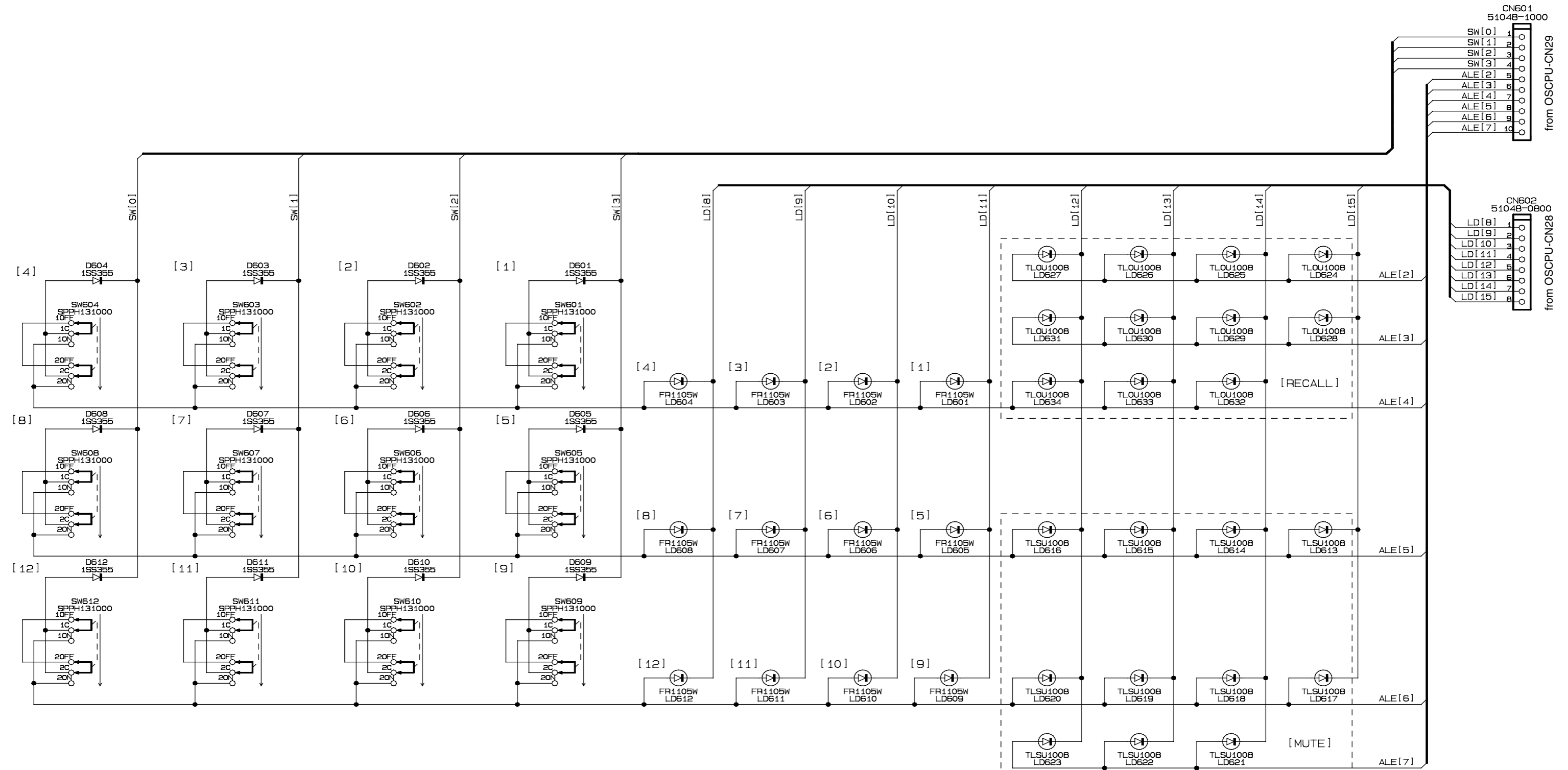


BUFFER & CONNECTOR

PNOS2 CIRCUIT DIAGRAM 008 (CS1D)

PNOS3 CIRCUIT DIAGRAM (CS1D)

CS1D



[DIRECT RECALL]
[MUTE MASTER]

PNOS4 CIRCUIT DIAGRAM (CS1D)

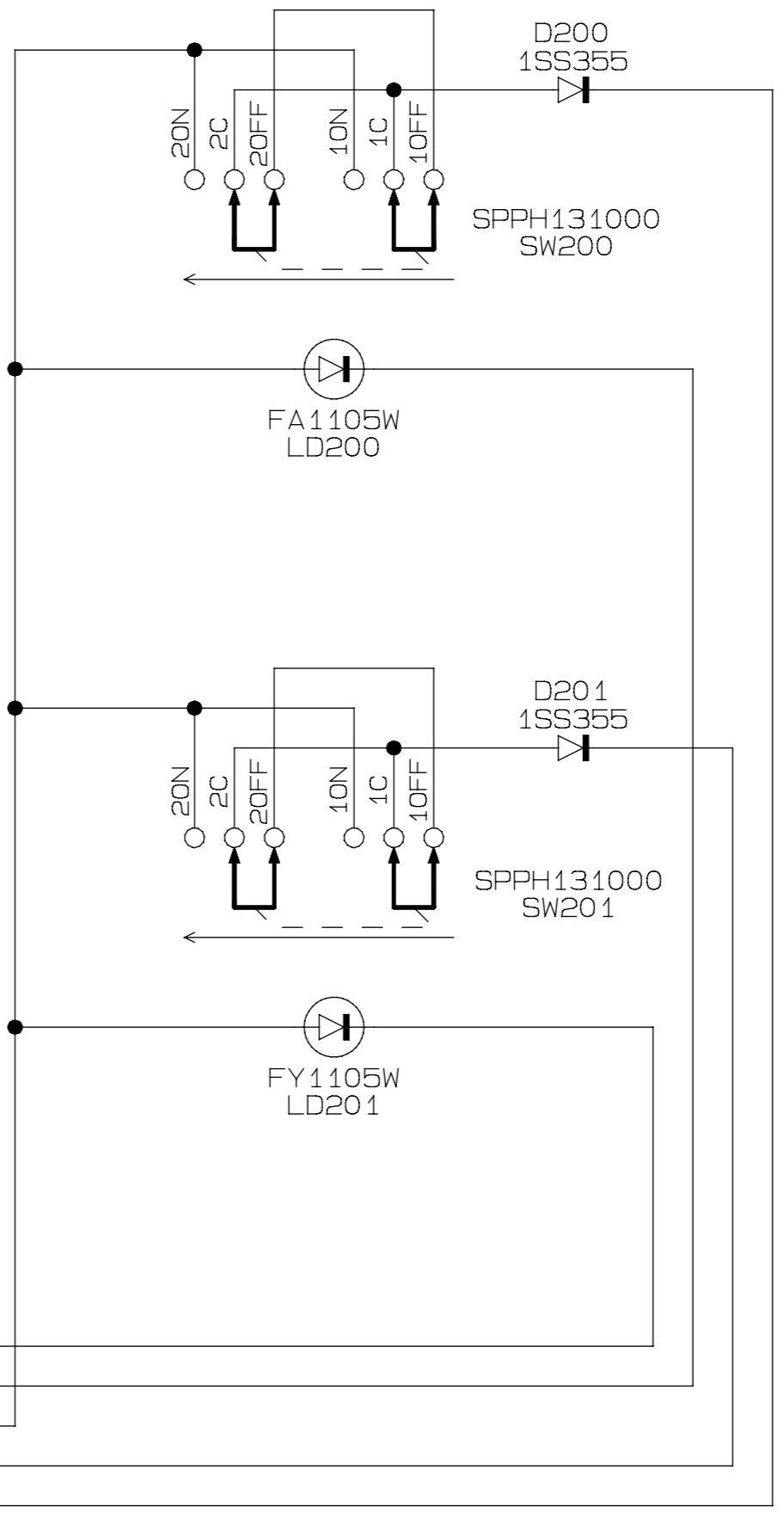
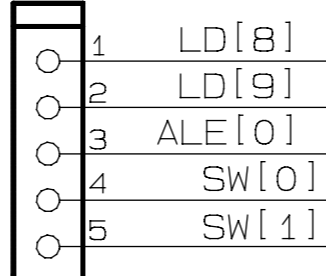
CS1D

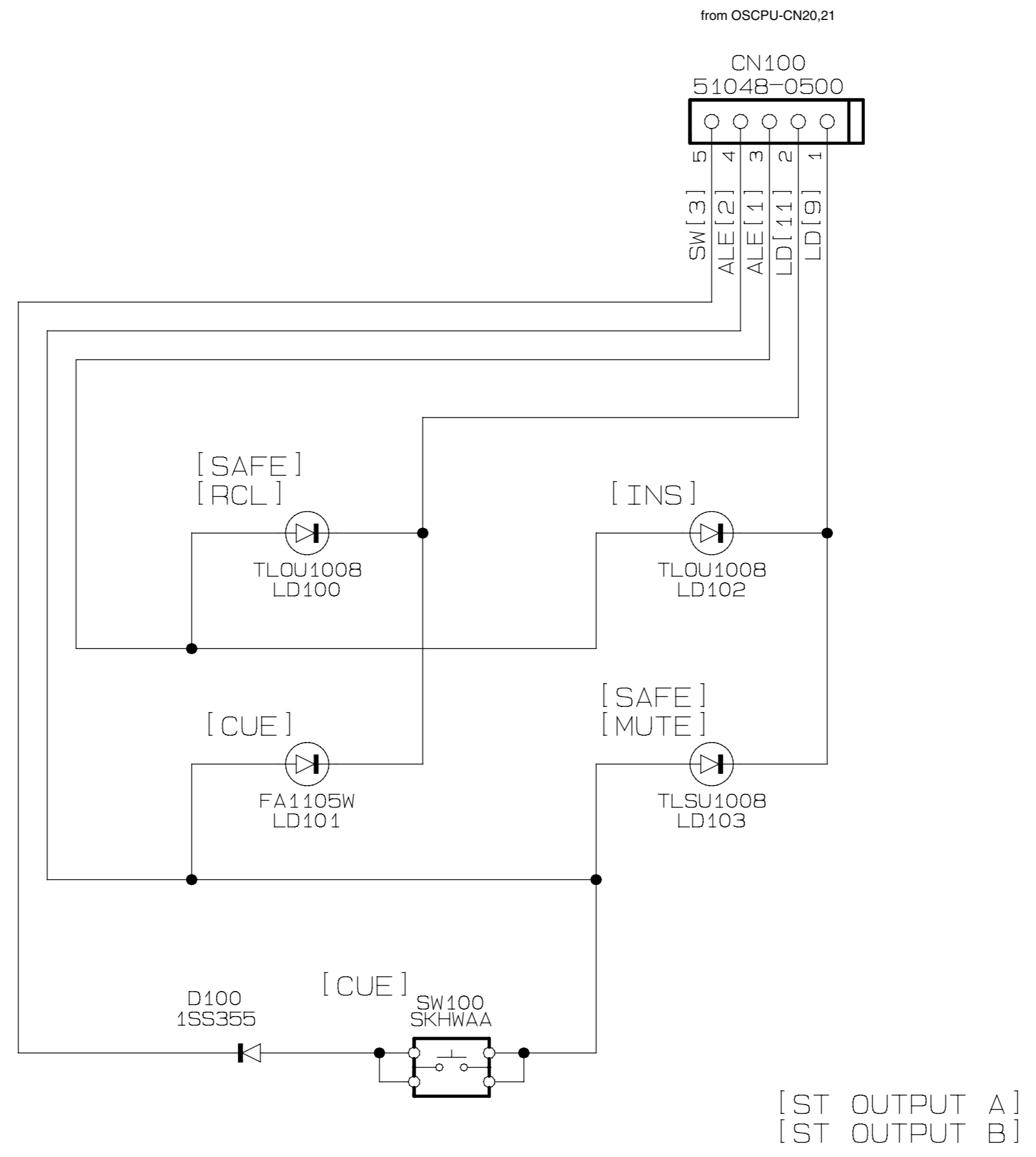
[ENGINE] : [B]
 or
 [GLOBAL LAYER] : [49-96]

[ENGINE] : [A]
 or
 [GLOBAL LAYER] : [1-48]

CN200
 51048-0500

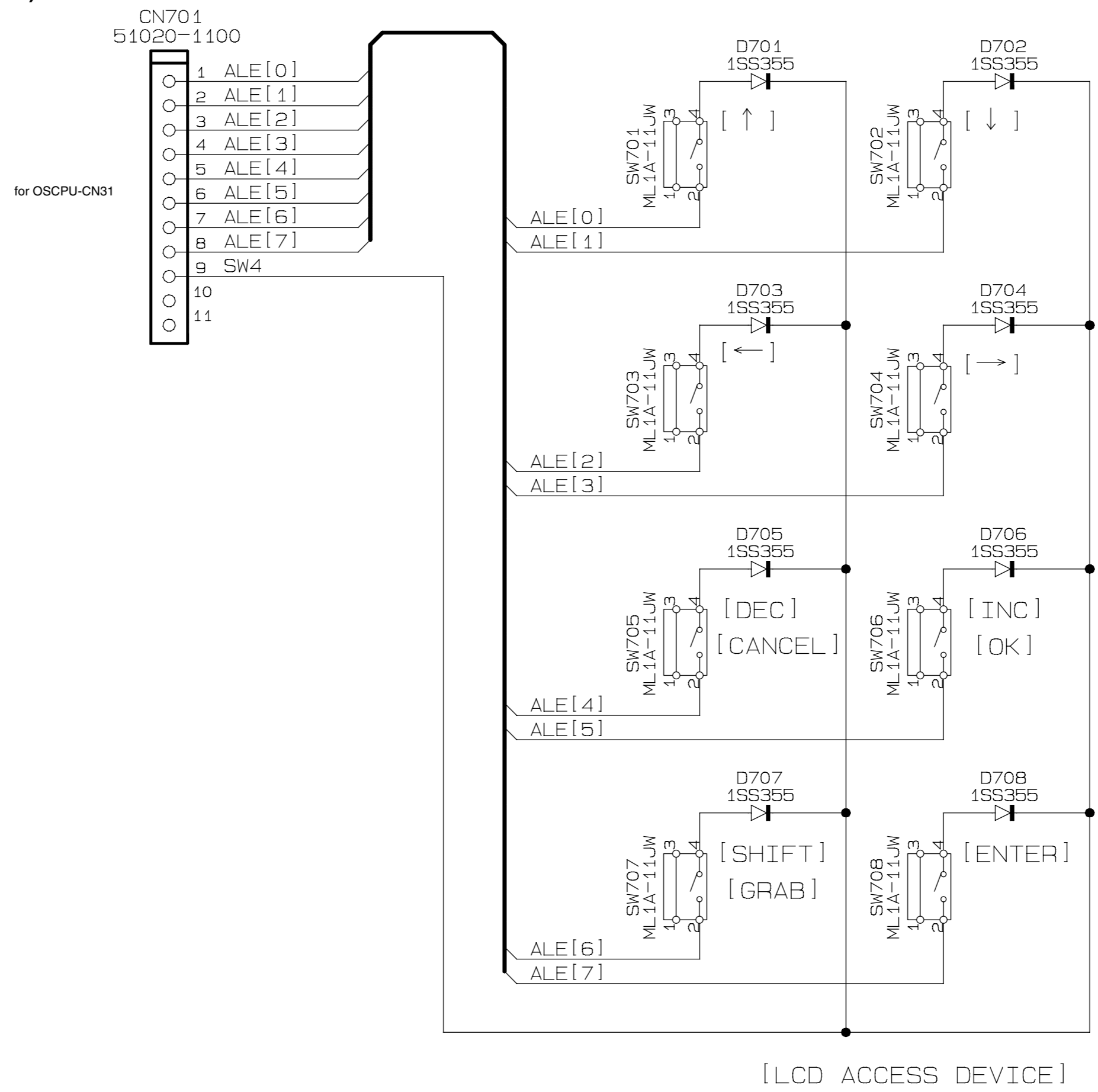
from OSCPU-CN22,23





PNOS6 CIRCUIT DIAGRAM (CS1D)

CS1D



[LCD ACCESS DEVICE]

■ PNI2 CIRCUIT DIAGRAM (CS1D)

CS1D

1

2

3

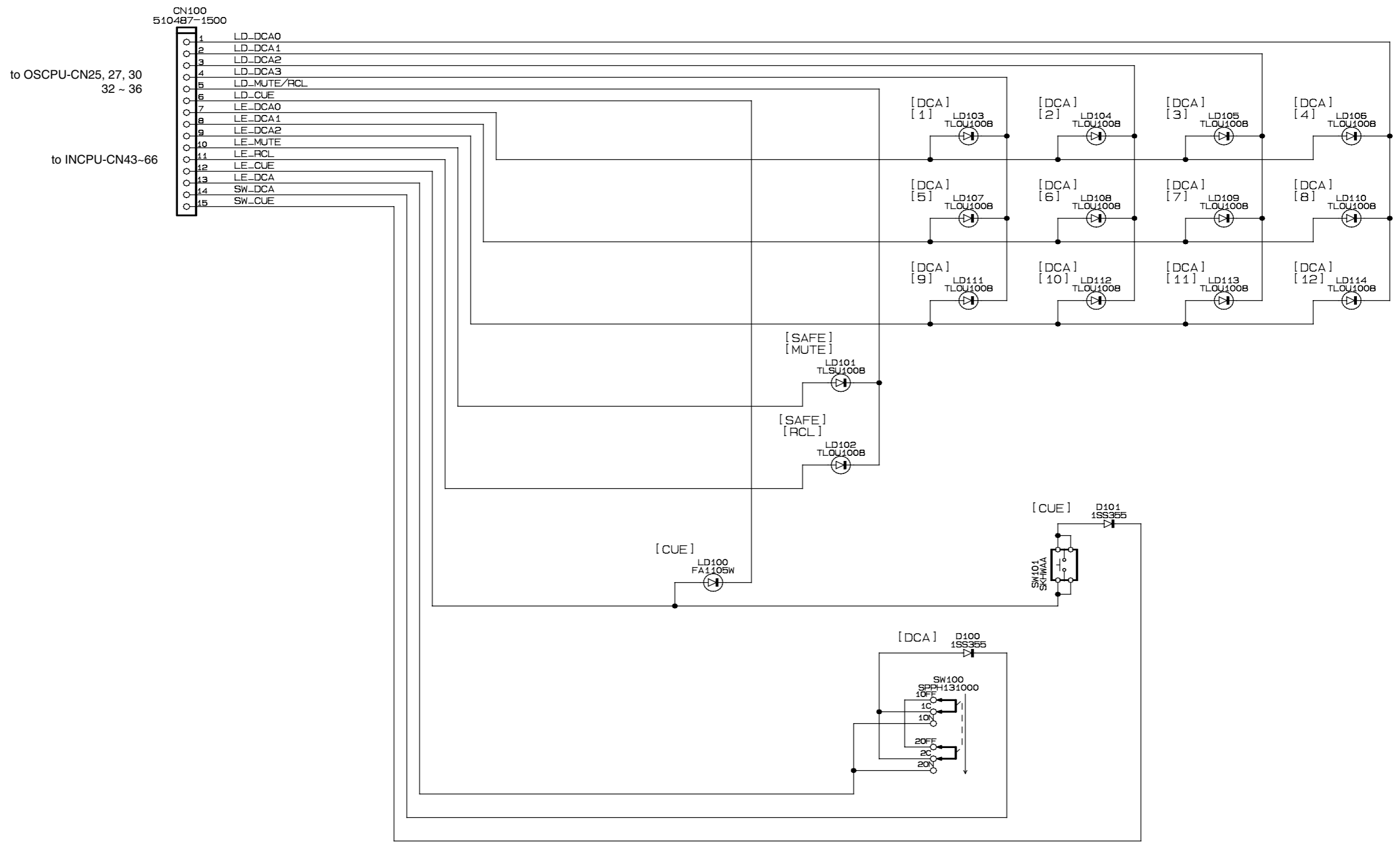
4

5

6

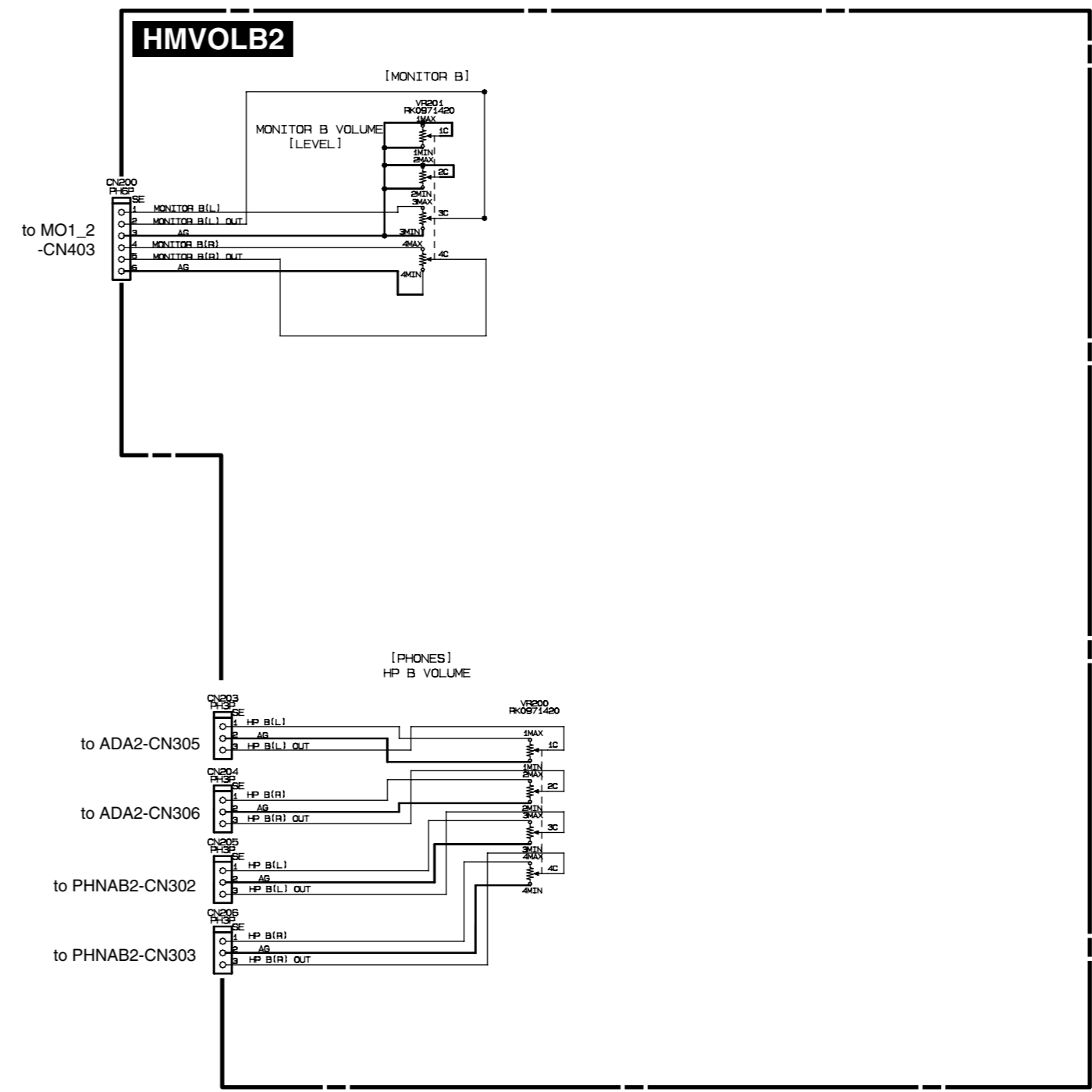
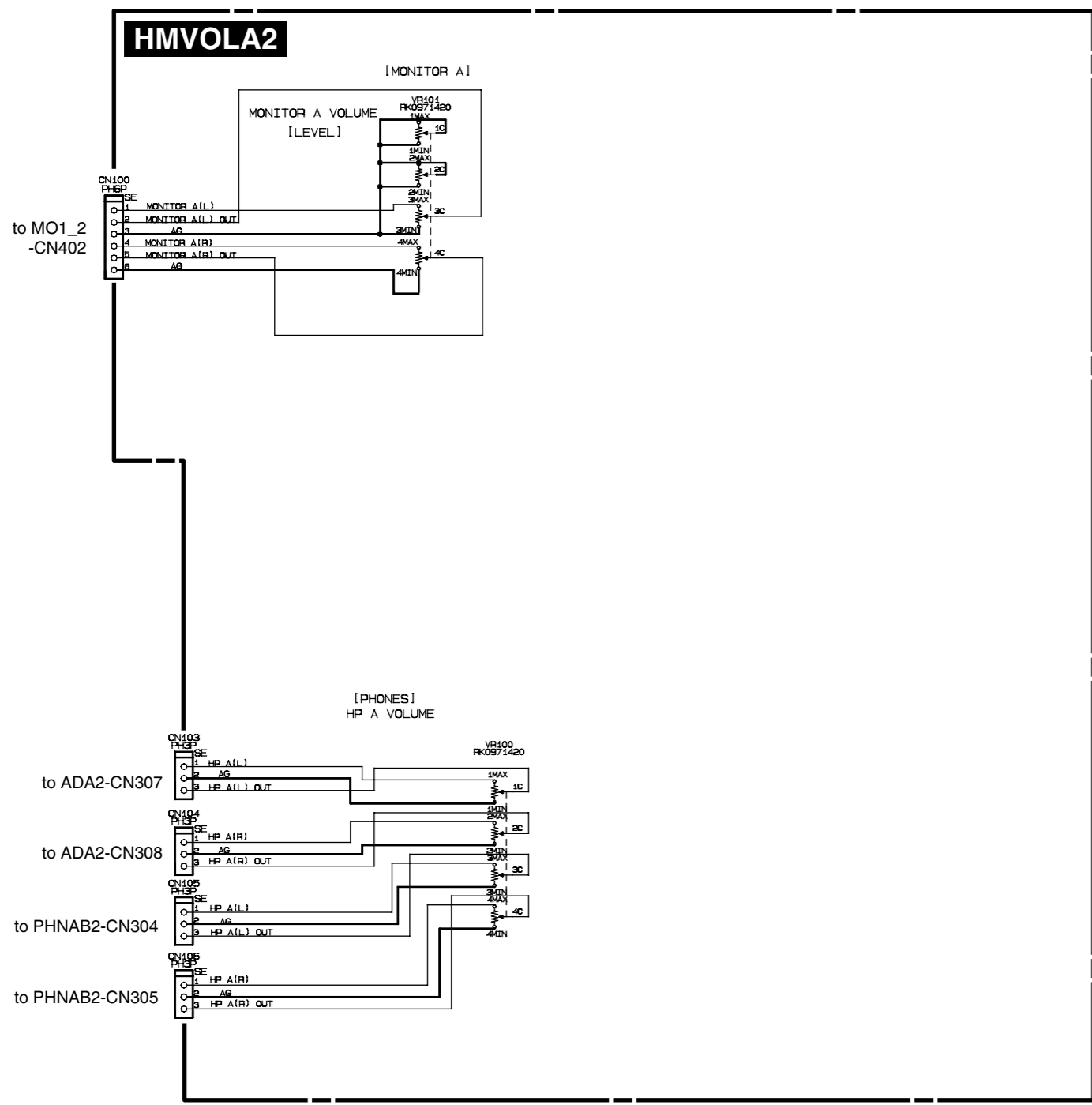
7

8



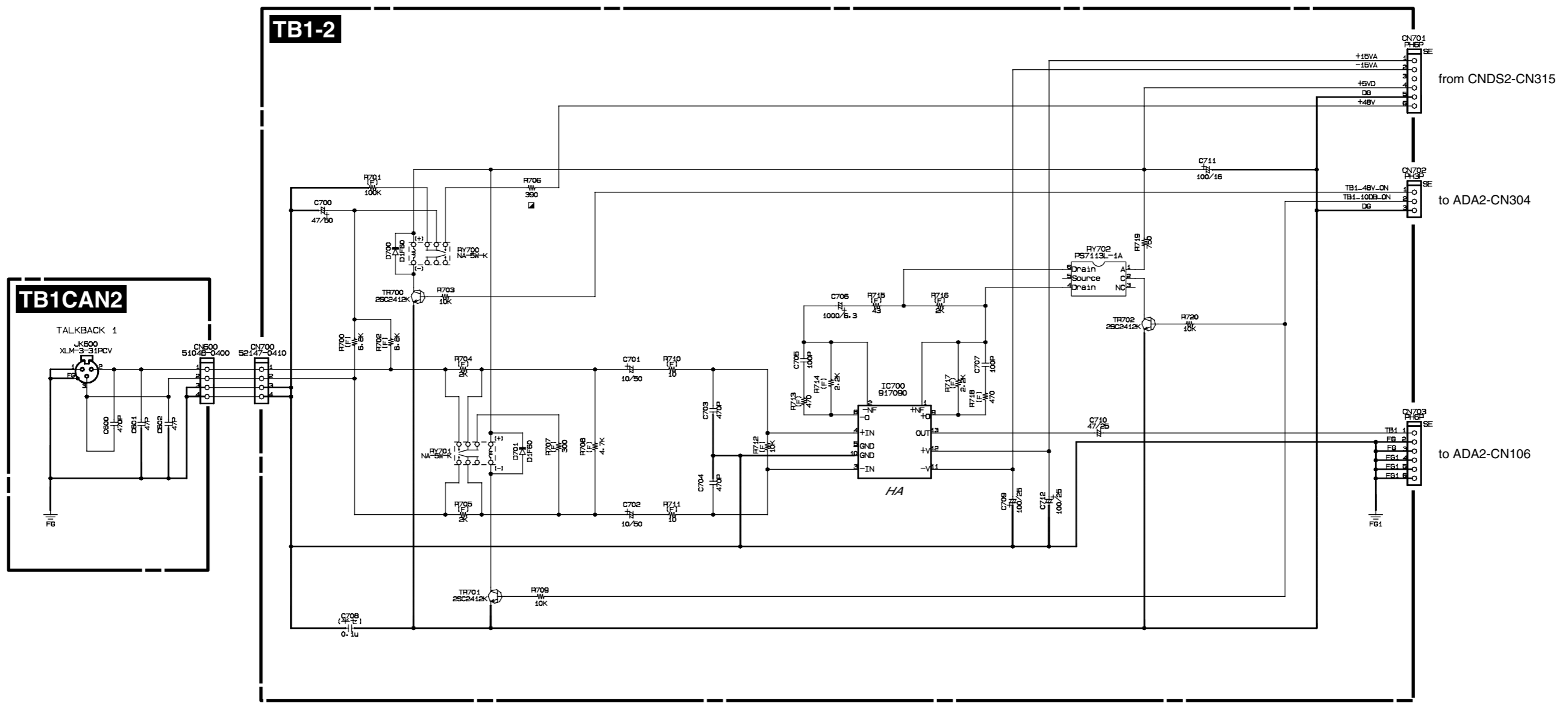
HMVOLA2, HMVOLB2 CIRCUIT DIAGRAM (CS1D)

CS1D



(F): Metal Film Resistor

HMVOLA2, HMVOLB2 CIRCUIT DIAGRAM (CS1D)



(F): Metal Film Resistor
 ■ : Flame Proof Carbon Resistor

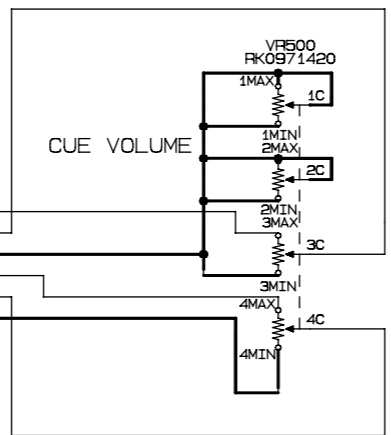
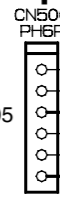
CUTBVL2 CIRCUIT DIAGRAM (CS1D)

CS1D

CUTBVL2

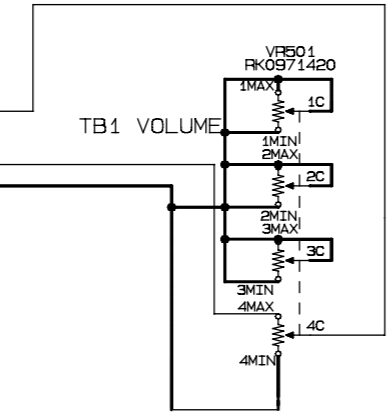
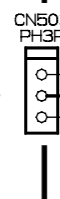
[CUE]
[CUE OUT LEVEL]

from MO2_2-CN605



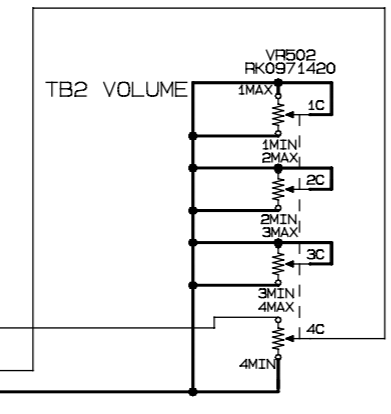
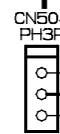
[TALKBACK 1]
[LEVEL]

from ADA2-CN107



[TALKBACK 2]
[LEVEL]

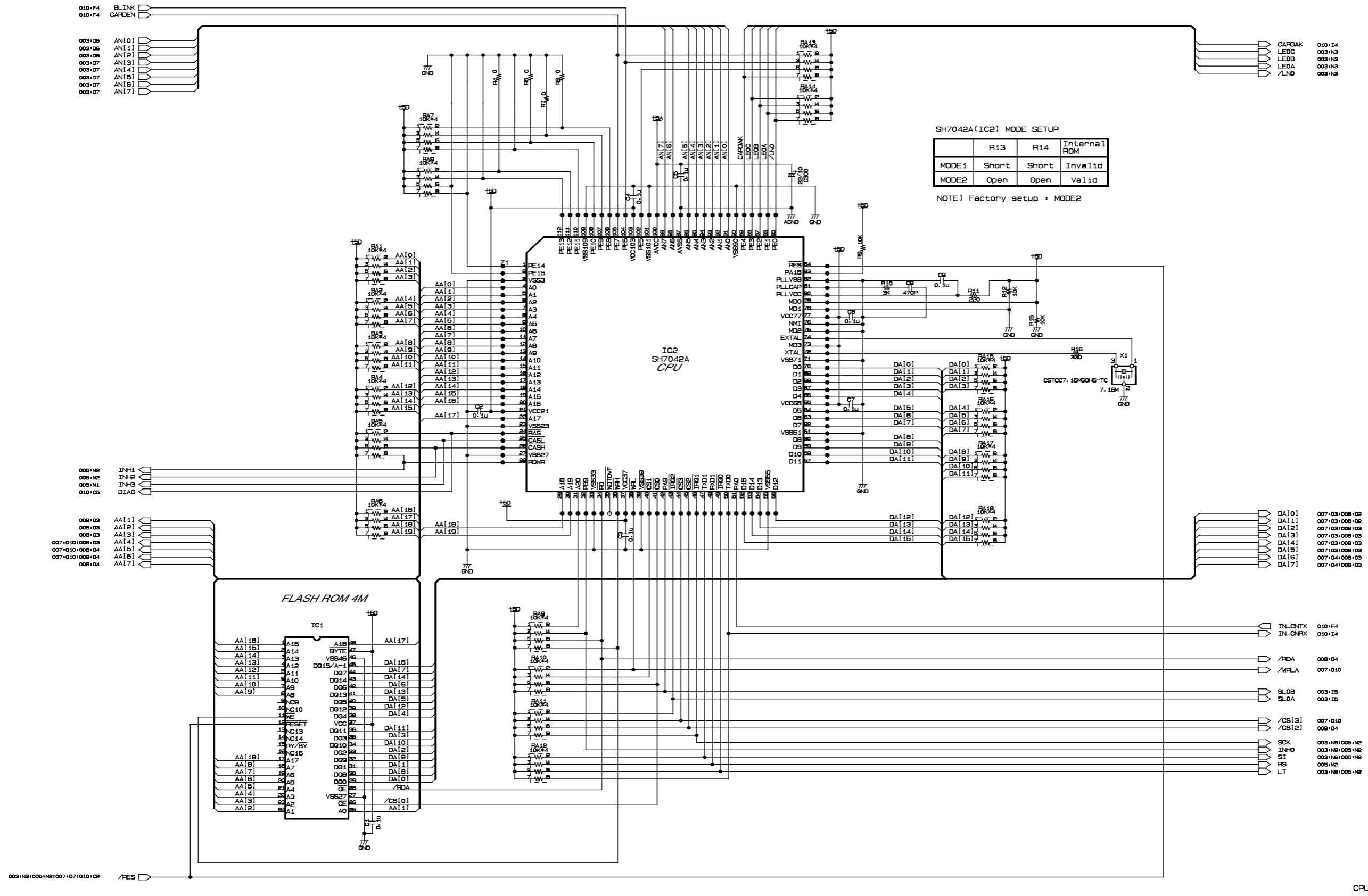
from ADA2-CN108



(F): Metal Film Resistor
(半セ): Semiconductive Cera Cap

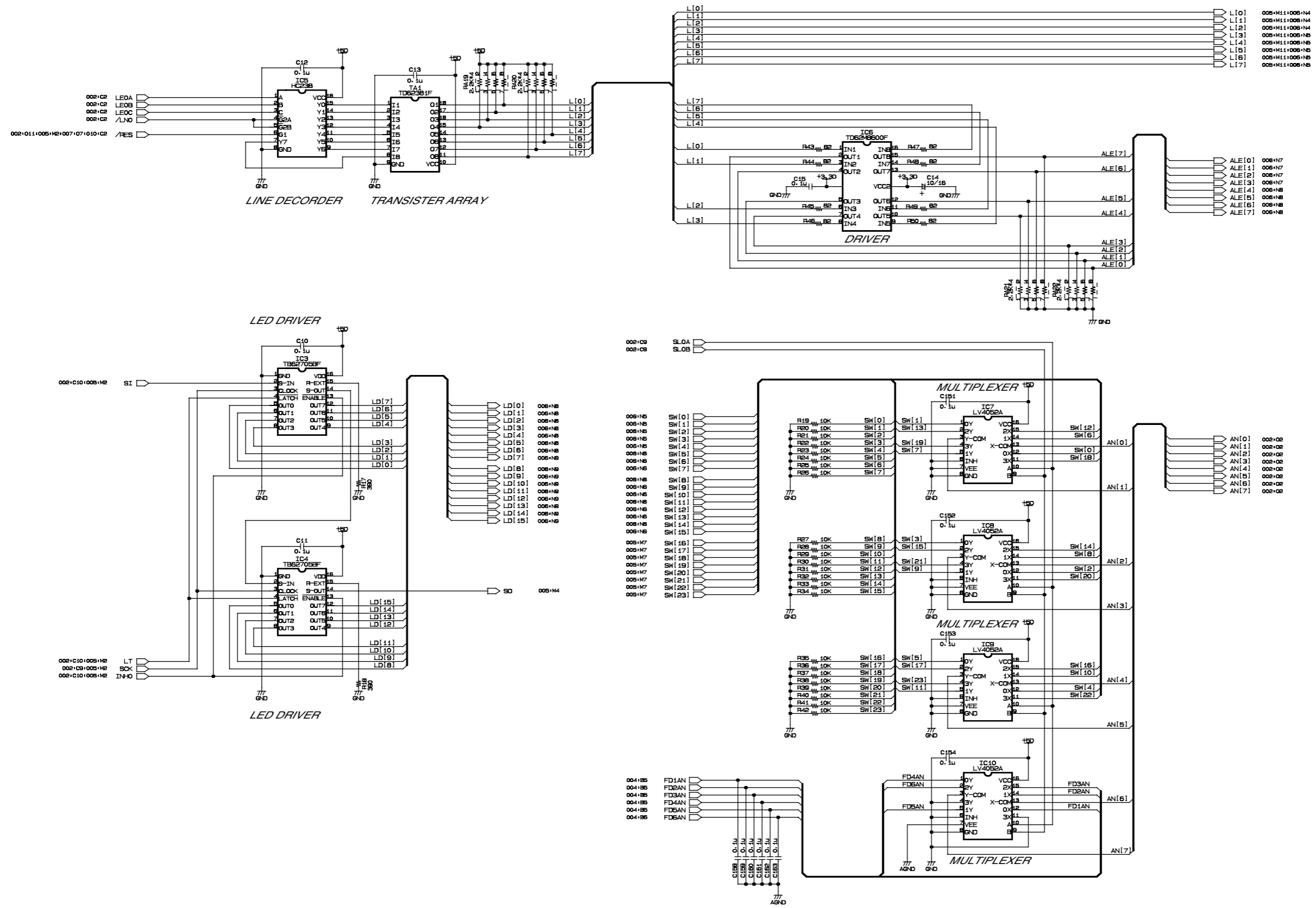
OSCPU CIRCUIT DIAGRAM 002 (CS1D)

CS1D



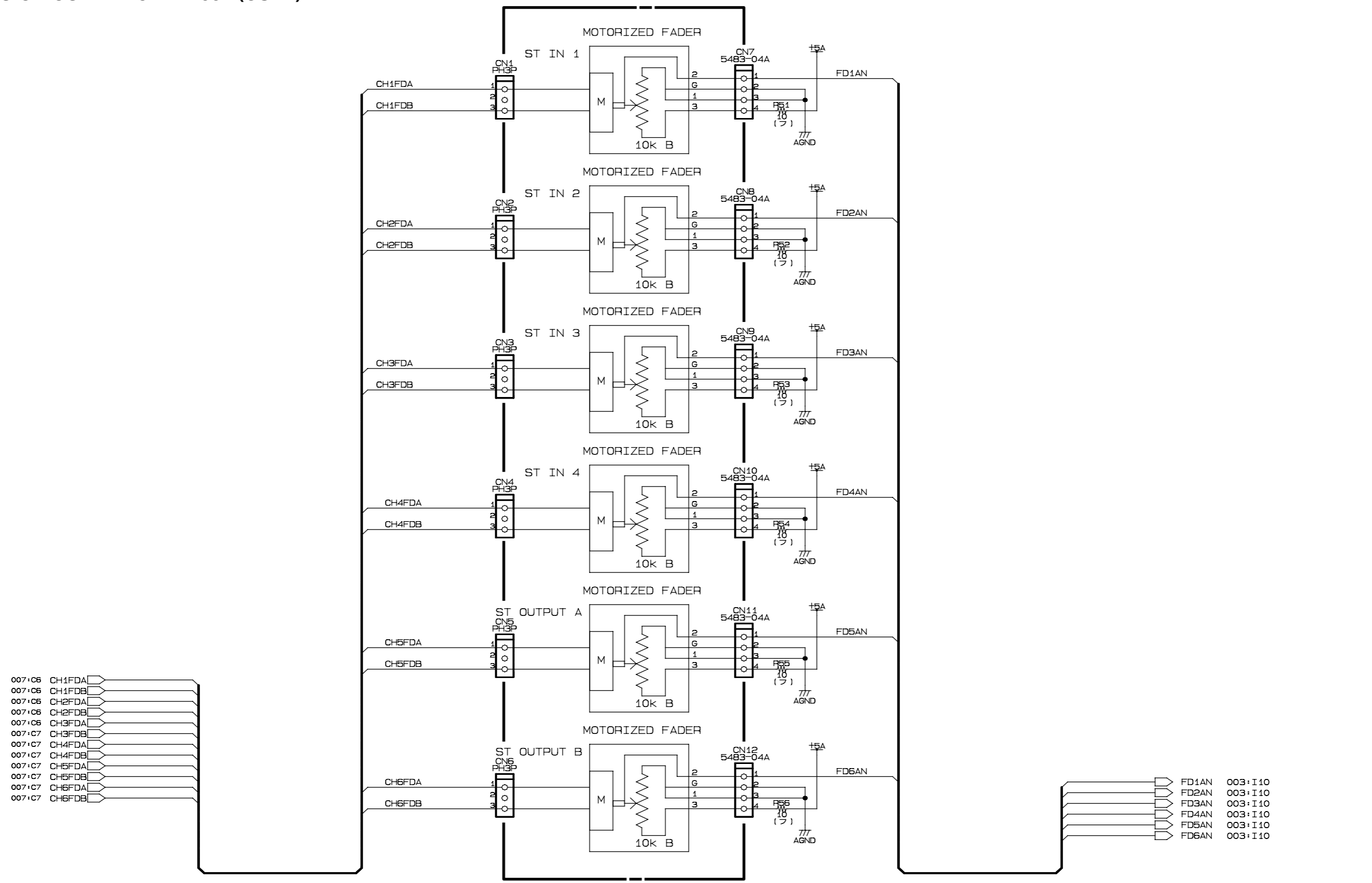
OSCPU CIRCUIT DIAGRAM 003 (CS1D)

CS1D



OSCPU CIRCUIT DIAGRAM 004 (CS1D)

CS1D



- 007·C6 CH1FDA
- 007·C6 CH1FDB
- 007·C6 CH2FDA
- 007·C6 CH2FDB
- 007·C6 CH3FDA
- 007·C7 CH3FDB
- 007·C7 CH4FDA
- 007·C7 CH4FDB
- 007·C7 CH5FDA
- 007·C7 CH5FDB
- 007·C7 CH6FDA
- 007·C7 CH6FDB

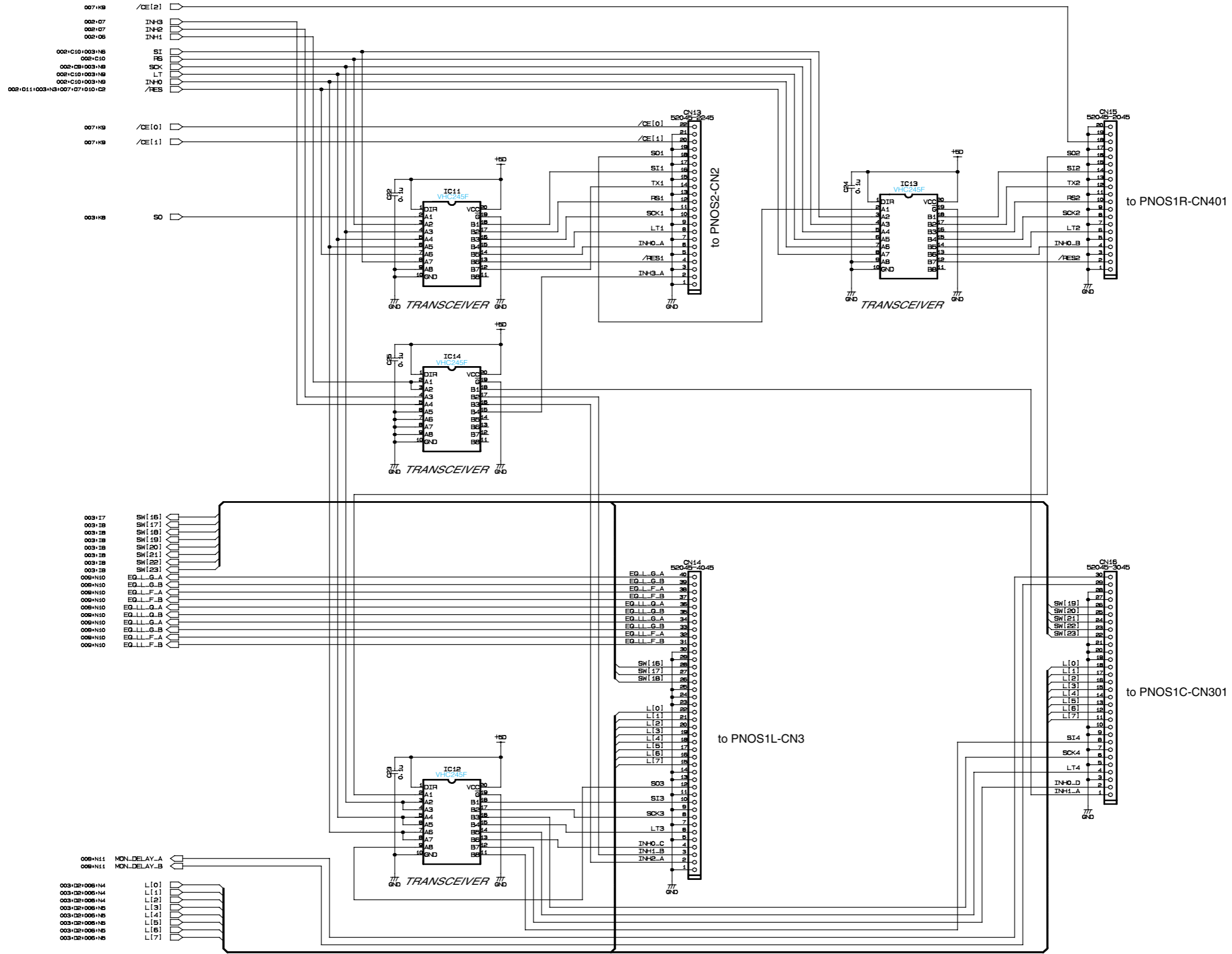
- FD1AN 003:I10
- FD2AN 003:I10
- FD3AN 003:I10
- FD4AN 003:I10
- FD5AN 003:I10
- FD6AN 003:I10

(7): Flame Proof Carbon Resistor

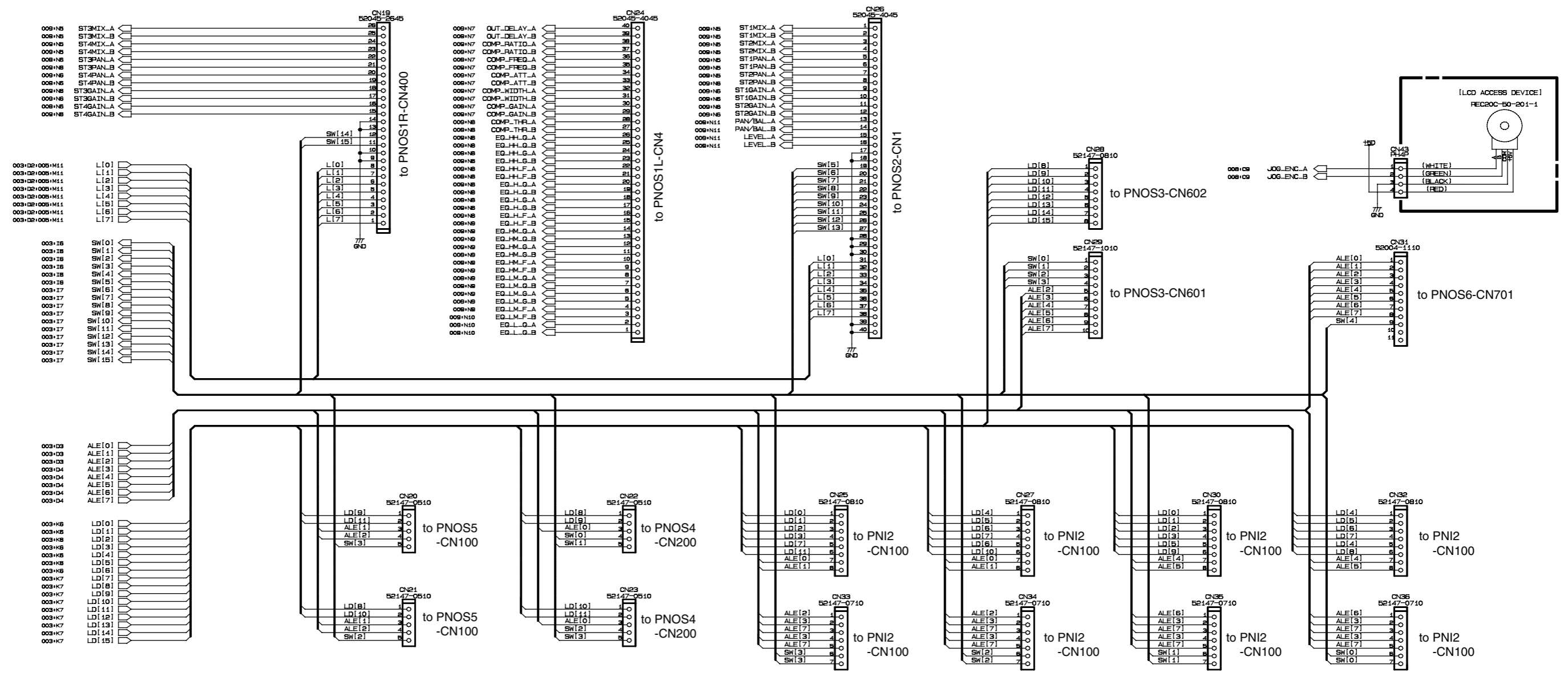
FADER CONNECTOR

OSCPU CIRCUIT DIAGRAM 005 (CS1D)

CS1D



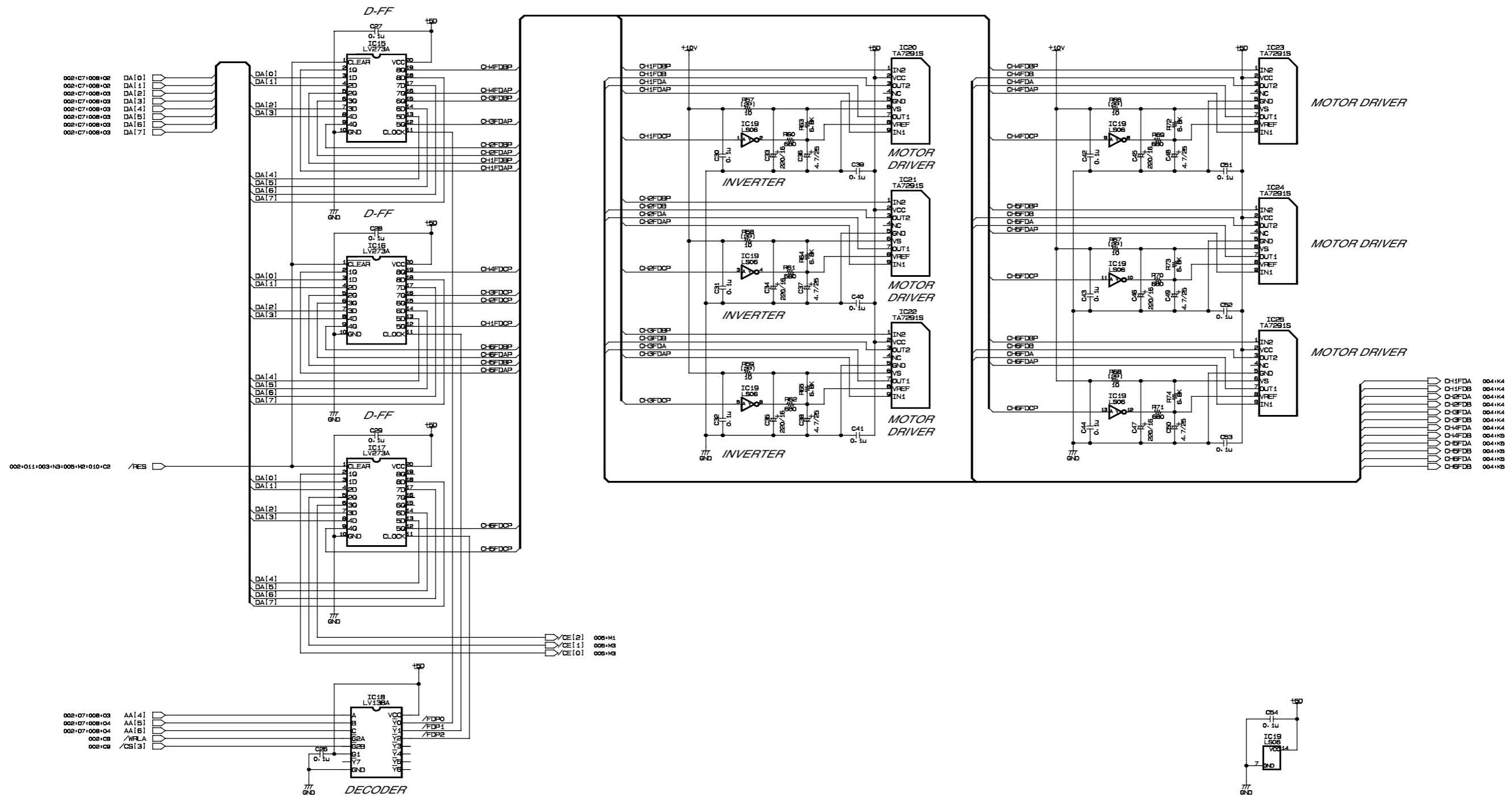
BUFFER & CONNECTOR



CONNECTOR

OSCPU CIRCUIT DIAGRAM 007 (CS1D)

CS1D



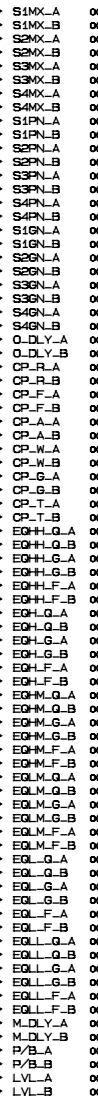
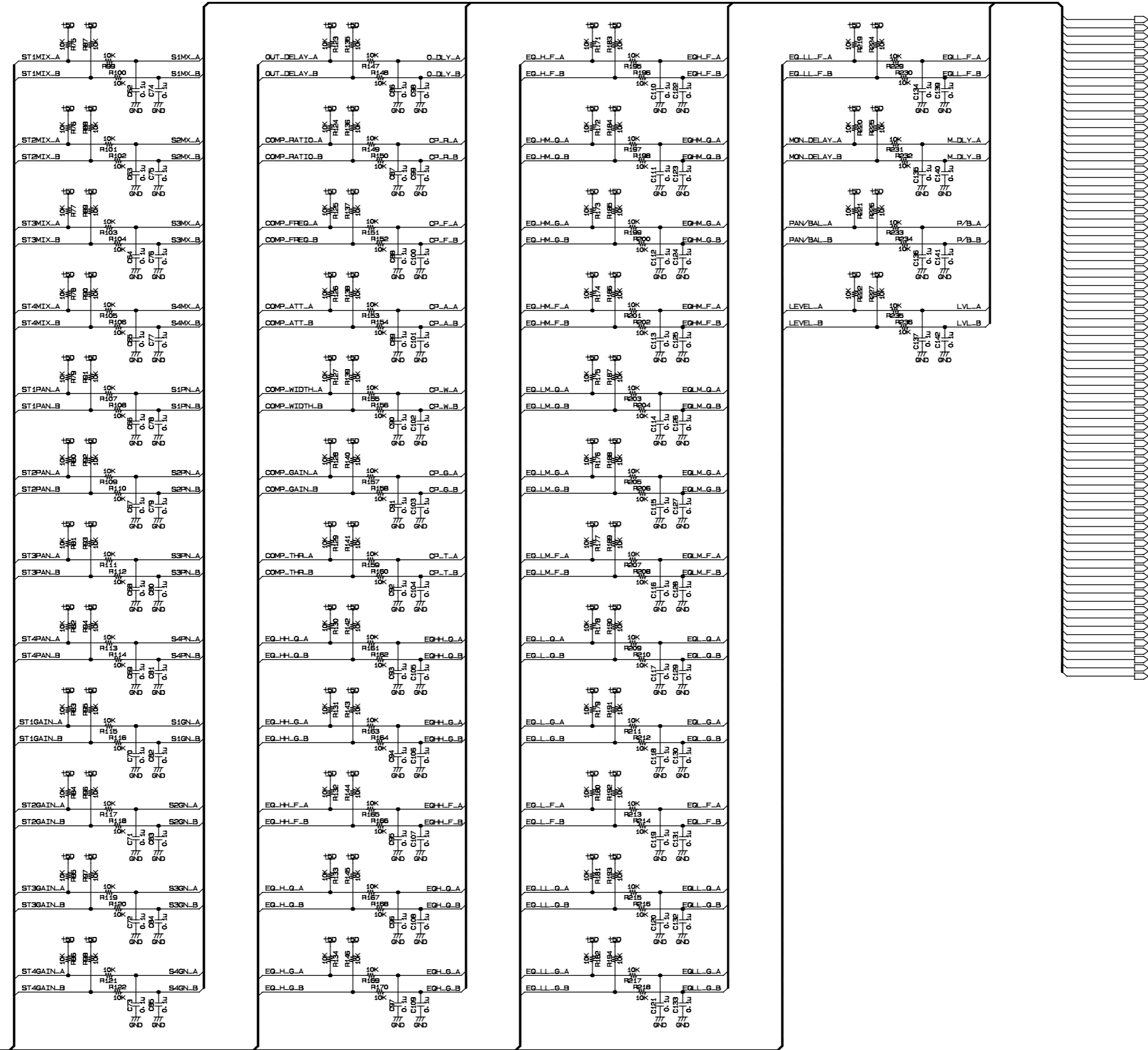
(2P): Metal Oxide Film Resistor

FADER CONTROL

OSCPU CIRCUIT DIAGRAM 009 (CS1D)

CS1D

- 006+H3 ST1MIX_A
- 006+H3 ST1MIX_B
- 006+H3 ST2MIX_A
- 006+H3 ST2MIX_B
- 006+H3 ST3MIX_A
- 006+H3 ST3MIX_B
- 006+H3 ST4MIX_A
- 006+H3 ST4MIX_B
- 006+H3 ST1PAN_A
- 006+H3 ST1PAN_B
- 006+H3 ST2PAN_A
- 006+H3 ST2PAN_B
- 006+H3 ST3PAN_A
- 006+H3 ST3PAN_B
- 006+H3 ST4PAN_A
- 006+H3 ST4PAN_B
- 006+H4 ST1GAIN_A
- 006+H4 ST1GAIN_B
- 006+H4 ST2GAIN_A
- 006+H4 ST2GAIN_B
- 006+H4 ST3GAIN_A
- 006+H4 ST3GAIN_B
- 006+H4 ST4GAIN_A
- 006+H4 ST4GAIN_B
- 006+J3 OUT_DELAY_A
- 006+J3 OUT_DELAY_B
- 006+J3 COMP_RATIO_A
- 006+J3 COMP_RATIO_B
- 006+J3 COMP_FREQ_A
- 006+J3 COMP_FREQ_B
- 006+J3 COMP_ATT_A
- 006+J3 COMP_ATT_B
- 006+J4 COMP_WIDTH_A
- 006+J4 COMP_WIDTH_B
- 006+J4 COMP_GAIN_A
- 006+J4 COMP_GAIN_B
- 006+J4 COMP_THR_A
- 006+J4 COMP_THR_B
- 006+J4 EQ_H.L.G.A
- 006+J4 EQ_H.L.G.B
- 006+J4 EQ_H.F.A
- 006+J4 EQ_H.F.B
- 006+J5 EQ_H.Q.A
- 006+J5 EQ_H.Q.B
- 006+J5 EQ_H.G.A
- 006+J5 EQ_H.G.B
- 006+J5 EQ_H.F.A
- 006+J5 EQ_H.F.B
- 006+J5 EQ_H.M.Q.A
- 006+J5 EQ_H.M.Q.B
- 006+J5 EQ_H.M.F.A
- 006+J5 EQ_H.M.F.B
- 006+J5 EQ.L.M.Q.A
- 006+J5 EQ.L.M.Q.B
- 006+J5 EQ.L.M.G.A
- 006+J5 EQ.L.M.G.B
- 006+J5 EQ.L.M.F.A
- 006+J5 EQ.L.M.F.B
- 006+J5 EQ.L.Q.A
- 006+J5 EQ.L.Q.B
- 006+J5 EQ.L.G.A
- 006+J5 EQ.L.G.B
- 006+H7 EQ.L.F.A
- 006+H7 EQ.L.F.B
- 006+H8 EQ.L.L.Q.A
- 006+H8 EQ.L.L.Q.B
- 006+H8 EQ.L.L.G.A
- 006+H8 EQ.L.L.G.B
- 006+H8 EQ.L.L.F.A
- 006+H8 EQ.L.L.F.B
- 006+H10 MON_DELAY_A
- 006+H10 MON_DELAY_B
- 006+H4 PAN/BAL_A
- 006+H4 PAN/BAL_B
- 006+H4 LEVEL_A
- 006+H4 LEVEL_B

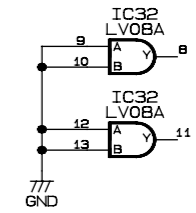
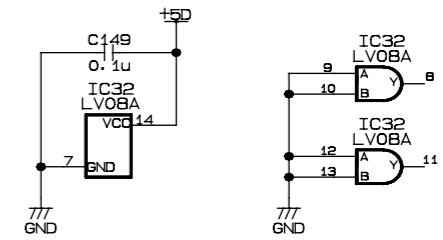
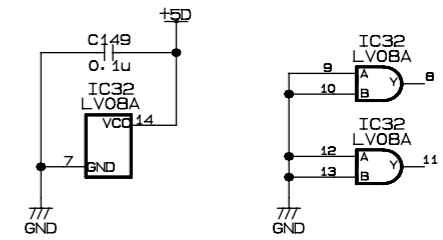
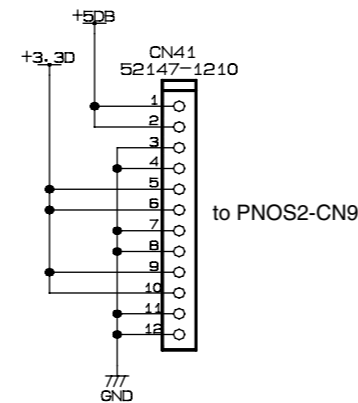
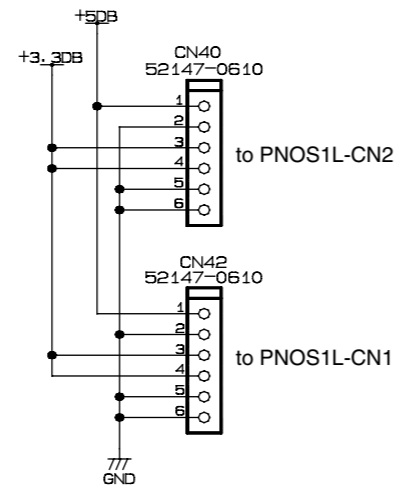
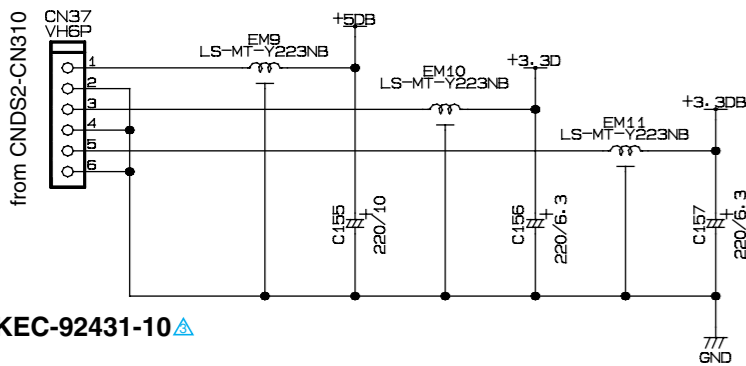
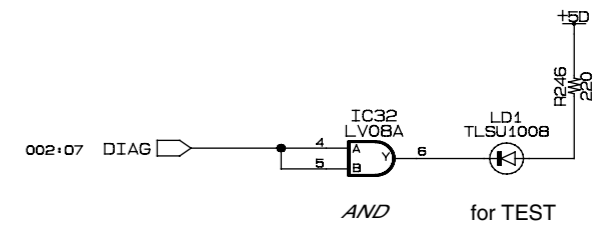
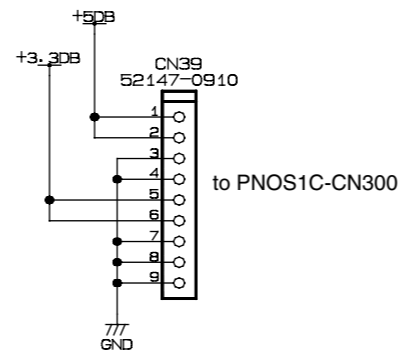
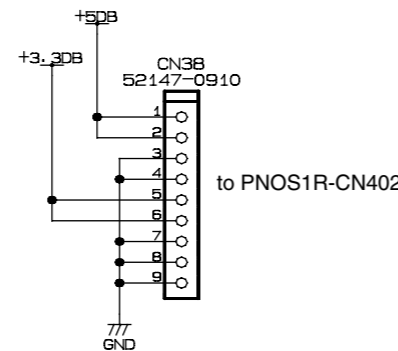
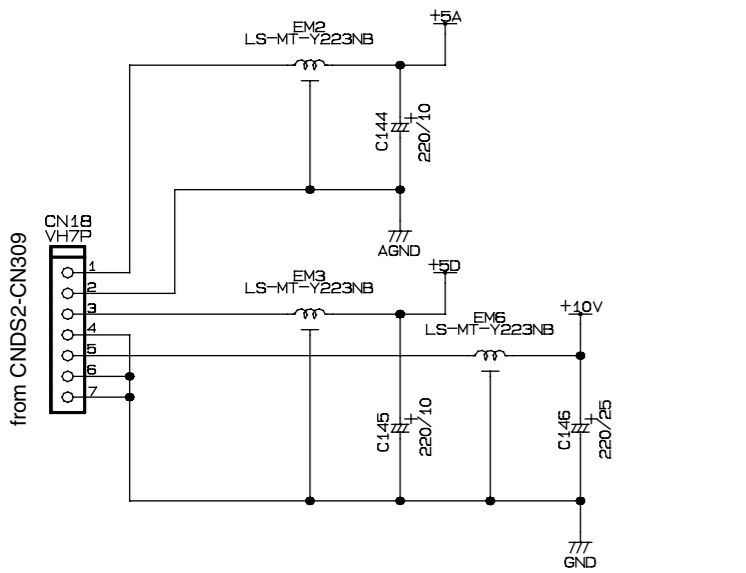
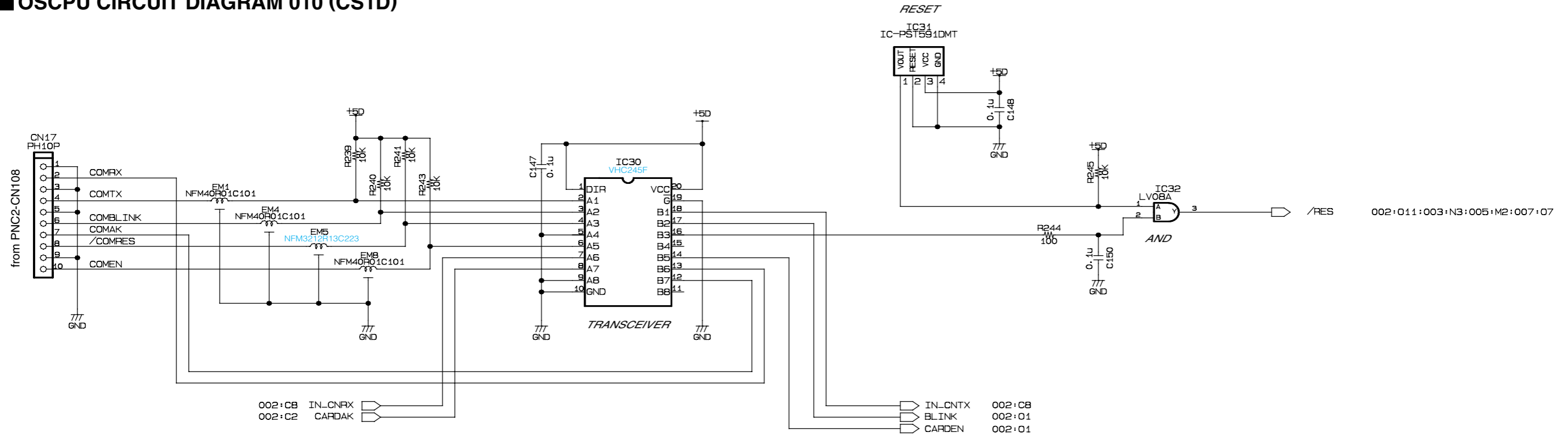


- S1MX_A 006+G2
- S1MX_B 006+G2
- S2MX_A 006+G3
- S2MX_B 006+G3
- S3MX_A 006+G3
- S3MX_B 006+G3
- S4MX_A 006+G3
- S4MX_B 006+G3
- S1PN_A 006+G3
- S1PN_B 006+G3
- S2PN_A 006+G3
- S2PN_B 006+G3
- S3PN_A 006+G3
- S3PN_B 006+G3
- S4PN_A 006+G3
- S4PN_B 006+G3
- S1GN_A 006+G4
- S1GN_B 006+G4
- S2GN_A 006+G4
- S2GN_B 006+G4
- S3GN_A 006+G4
- S3GN_B 006+G4
- S4GN_A 006+G4
- S4GN_B 006+G4
- O.DLY_A 006+G4
- O.DLY_B 006+G4
- CP_R_A 006+G4
- CP_R_B 006+G4
- CP_F_A 006+G4
- CP_F_B 006+G4
- CP_A_A 006+G4
- CP_A_B 006+G4
- CP_W_A 006+G4
- CP_W_B 006+G4
- CP_G_A 006+G4
- CP_G_B 006+G4
- CP_T_A 006+G4
- CP_T_B 006+G4
- EQ_H.L.G.A 006+G4
- EQ_H.L.G.B 006+G4
- EQ_H.F.A 006+G4
- EQ_H.F.B 006+G4
- EQ_H.Q.A 006+G4
- EQ_H.Q.B 006+G4
- EQ_H.G.A 006+G4
- EQ_H.G.B 006+G4
- EQ_H.F.A 006+G4
- EQ_H.F.B 006+G4
- EQ_H.M.Q.A 006+G4
- EQ_H.M.Q.B 006+G4
- EQ_H.M.G.A 006+G4
- EQ_H.M.G.B 006+G4
- EQ_H.M.F.A 006+G4
- EQ_H.M.F.B 006+G4
- EQ.L.M.Q.A 006+G4
- EQ.L.M.Q.B 006+G4
- EQ.L.M.G.A 006+G4
- EQ.L.M.G.B 006+G4
- EQ.L.M.F.A 006+G4
- EQ.L.M.F.B 006+G4
- EQ.L.Q.A 006+G4
- EQ.L.Q.B 006+G4
- EQ.L.G.A 006+G4
- EQ.L.G.B 006+G4
- EQ.L.F.A 006+G4
- EQ.L.F.B 006+G4
- M.DLY_A 006+G4
- M.DLY_B 006+G4
- P/B_A 006+G4
- P/B_B 006+G4
- LVL_A 006+G4
- LVL_B 006+G4
- EQ_H.Q.A 006+G5
- EQ_H.Q.B 006+G5
- EQ_H.G.A 006+G5
- EQ_H.G.B 006+G5
- EQ_H.F.A 006+G5
- EQ_H.F.B 006+G5
- EQ_H.M.Q.A 006+G5
- EQ_H.M.Q.B 006+G5
- EQ_H.M.G.A 006+G5
- EQ_H.M.G.B 006+G5
- EQ_H.M.F.A 006+G5
- EQ_H.M.F.B 006+G5
- EQ.L.M.Q.A 006+G5
- EQ.L.M.Q.B 006+G5
- EQ.L.M.G.A 006+G5
- EQ.L.M.G.B 006+G5
- EQ.L.M.F.A 006+G5
- EQ.L.M.F.B 006+G5
- EQ.L.Q.A 006+G5
- EQ.L.Q.B 006+G5
- EQ.L.G.A 006+G5
- EQ.L.G.B 006+G5
- EQ.L.F.A 006+G5
- EQ.L.F.B 006+G5
- M.DLY_A 006+G5
- M.DLY_B 006+G5
- P/B_A 006+G5
- P/B_B 006+G5
- LVL_A 006+G5
- LVL_B 006+G5

ENCODER INPUT

OSCPU CIRCUIT DIAGRAM 010 (CS1D)

CS1D

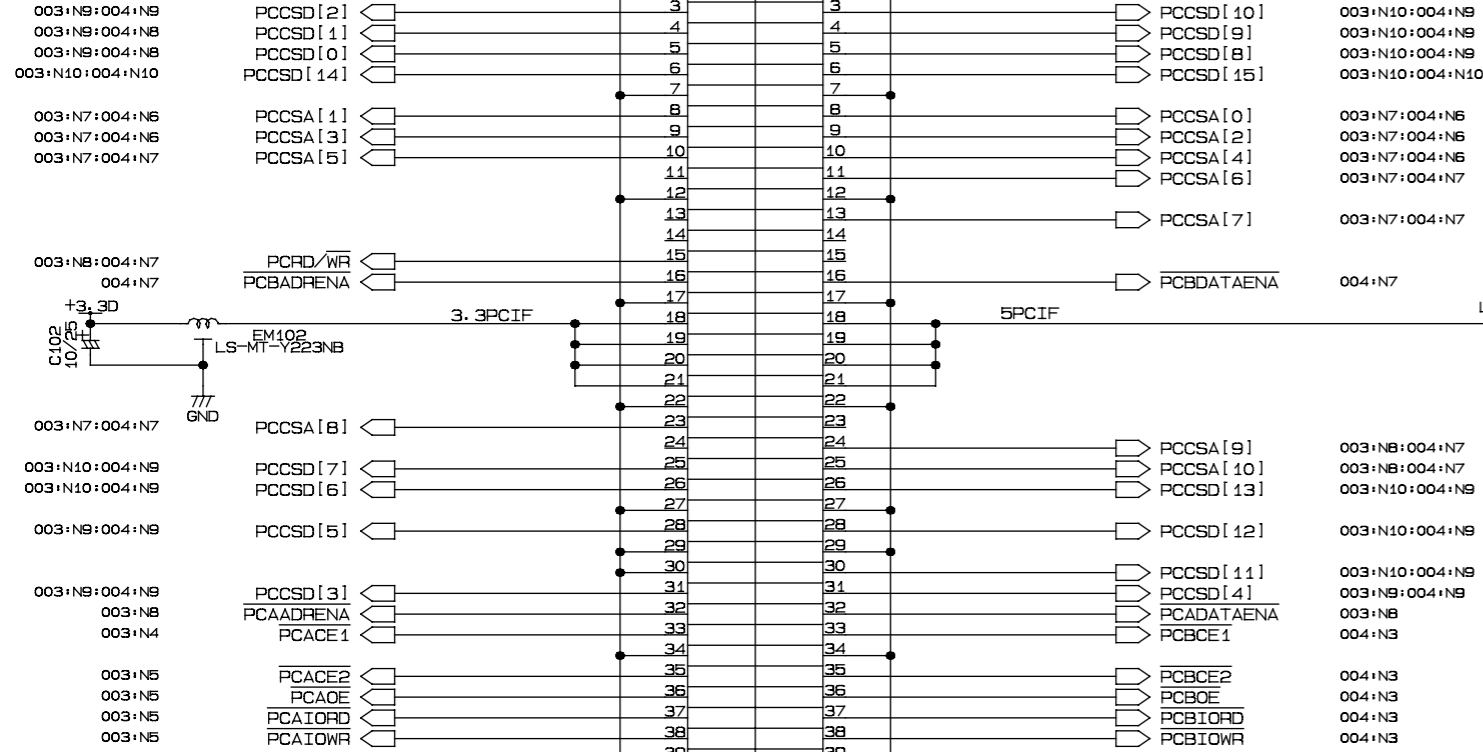
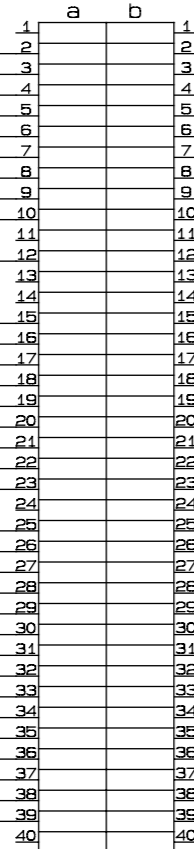


CONNECTOR

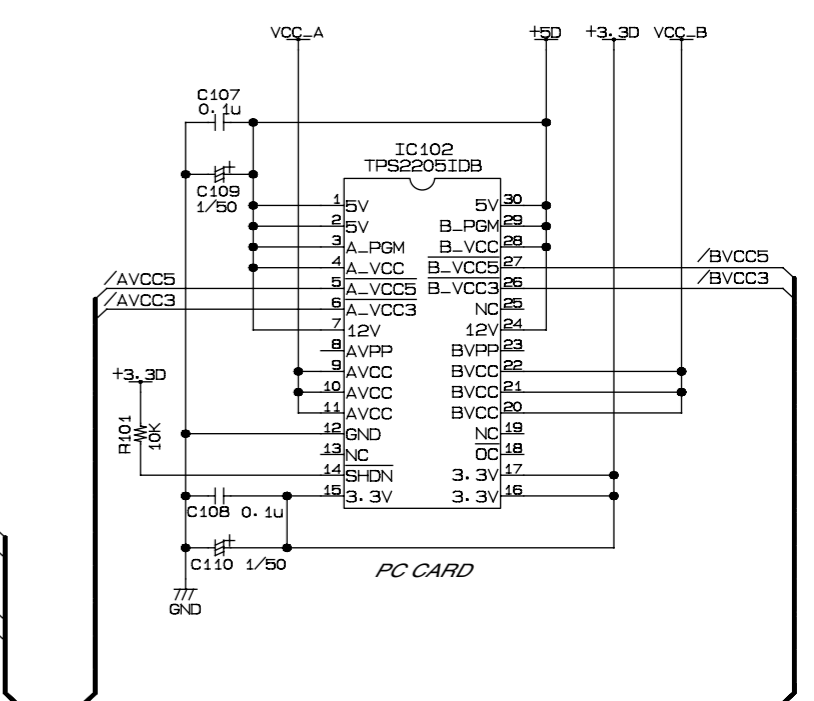
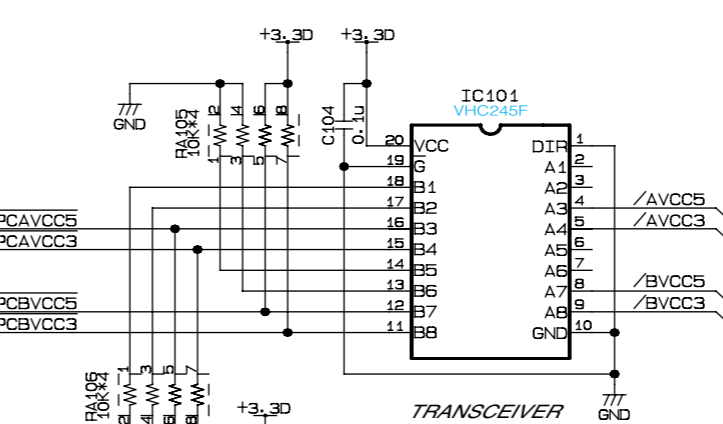
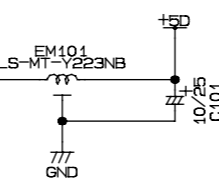
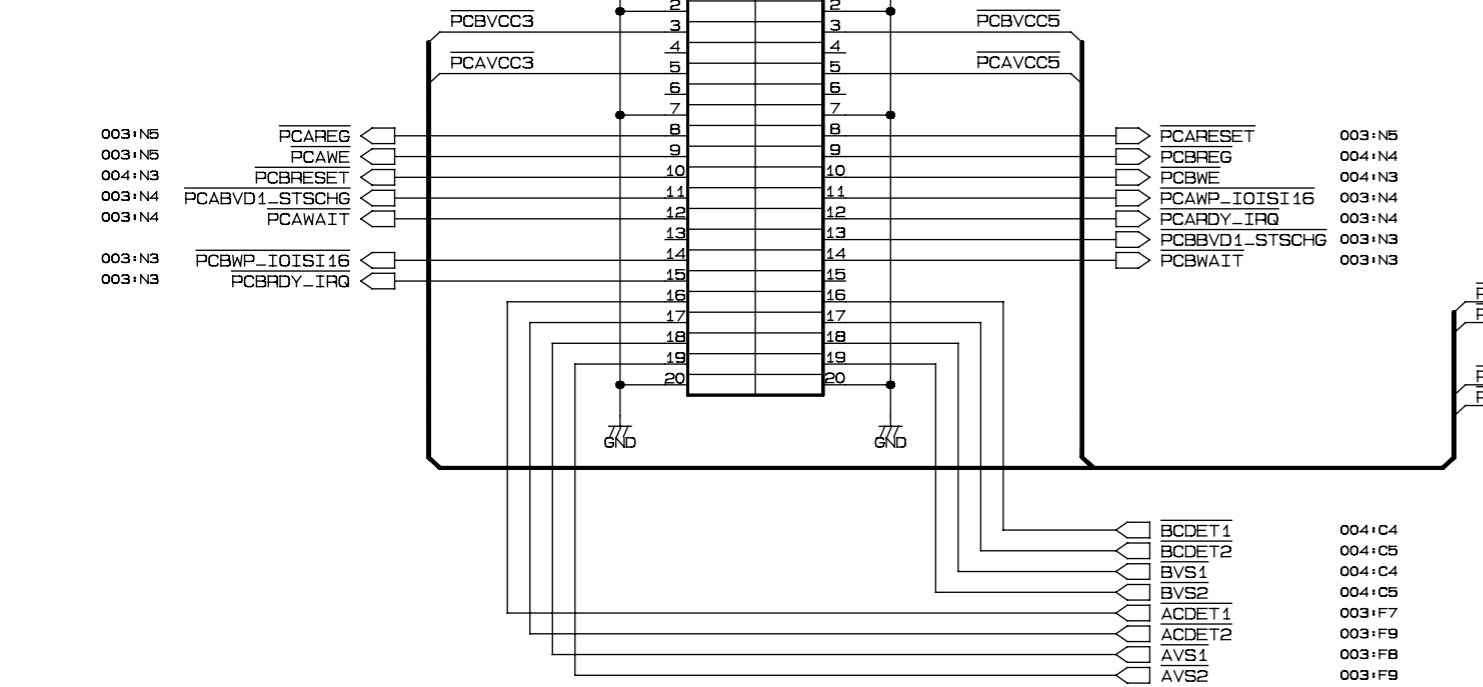
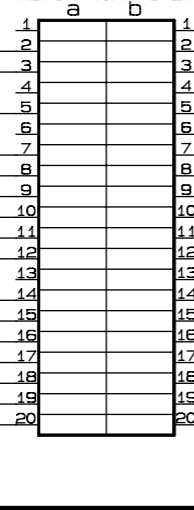
CRDC1 CIRCUIT DIAGRAM 002 (CS1D)

CS1D

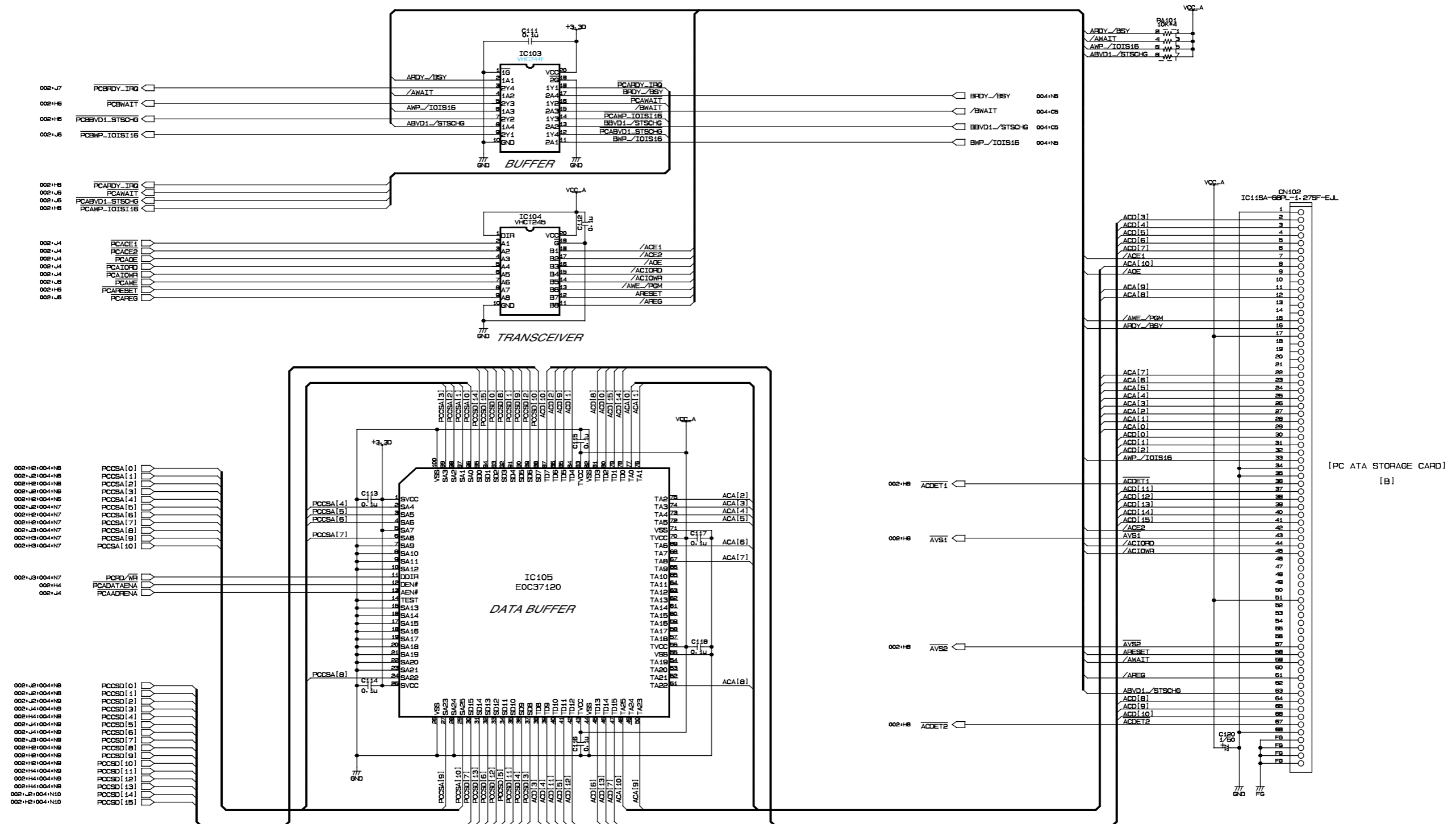
from PCIF-CN201
CN101
HIF6A-80PA-1.27



from PCIF-CN202
CN105
HIF6A-40PA-1.27



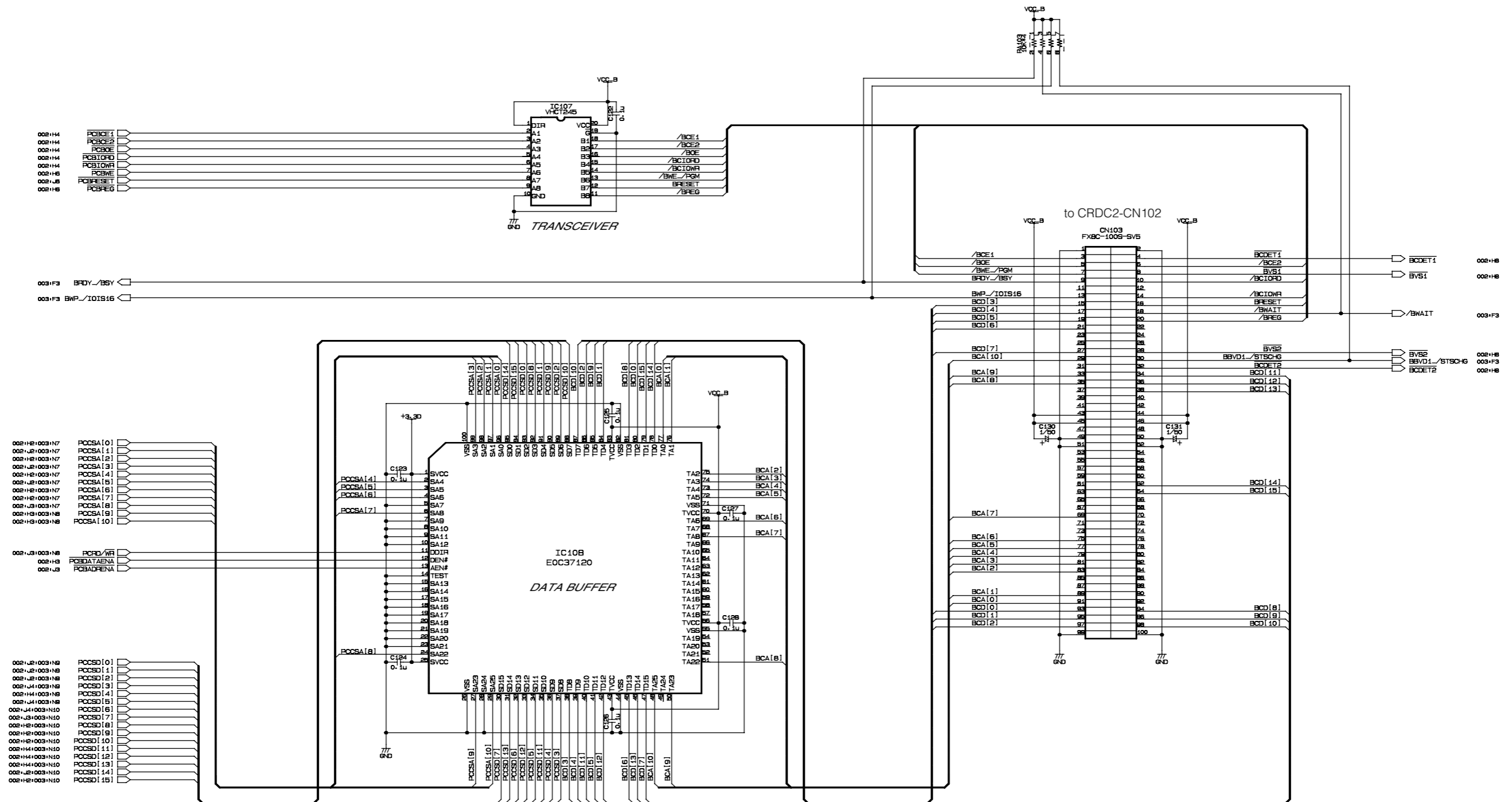
BUFFER & POWER SELECT



TRANCEIVER & CONNECTOR

CRDC1 CIRCUIT DIAGRAM 004 (CS1D)

CS1D

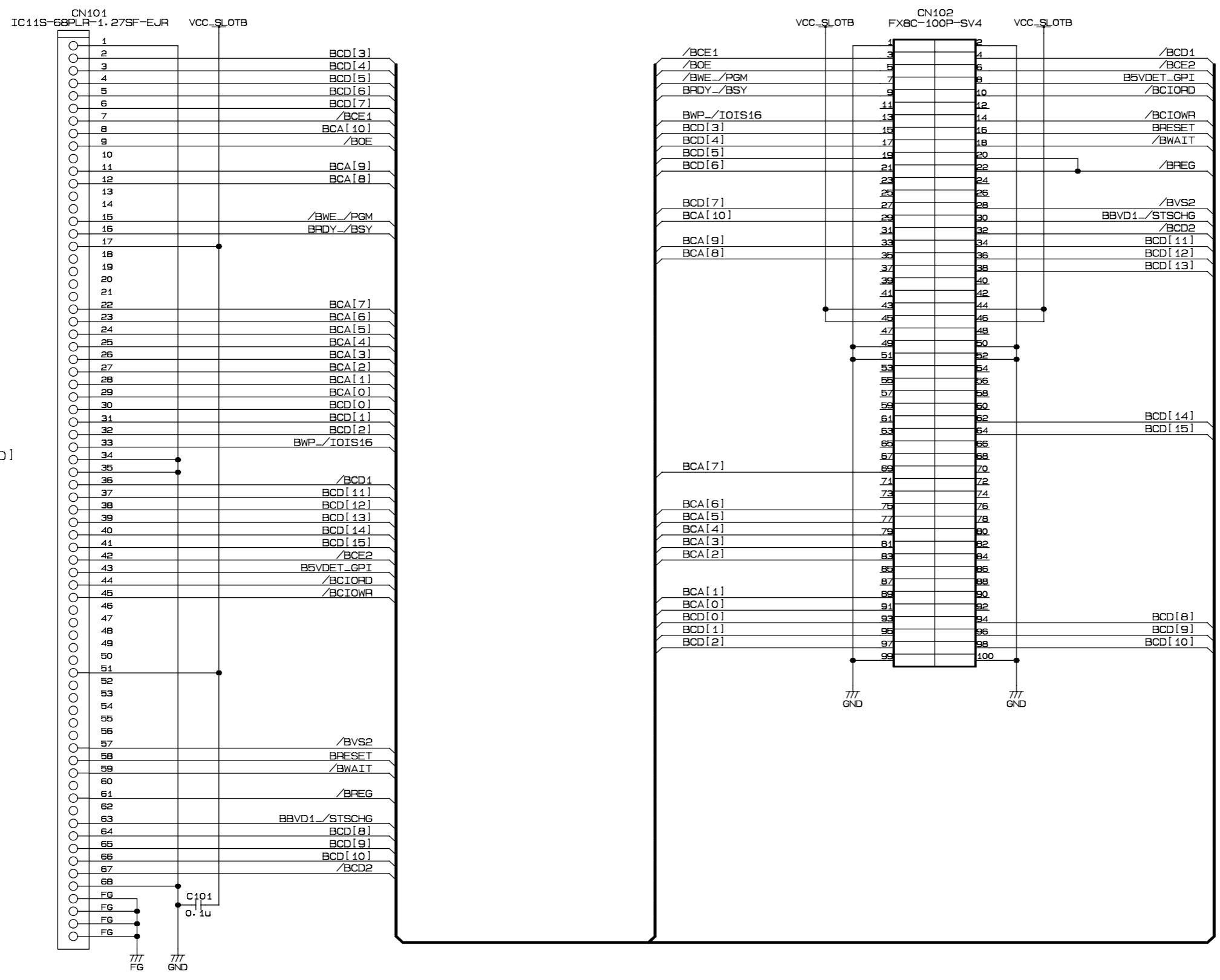


TRANSEIVER & CONNECTOR FOR SLOT A

■ CRDC2 CIRCUIT DIAGRAM (CS1D)

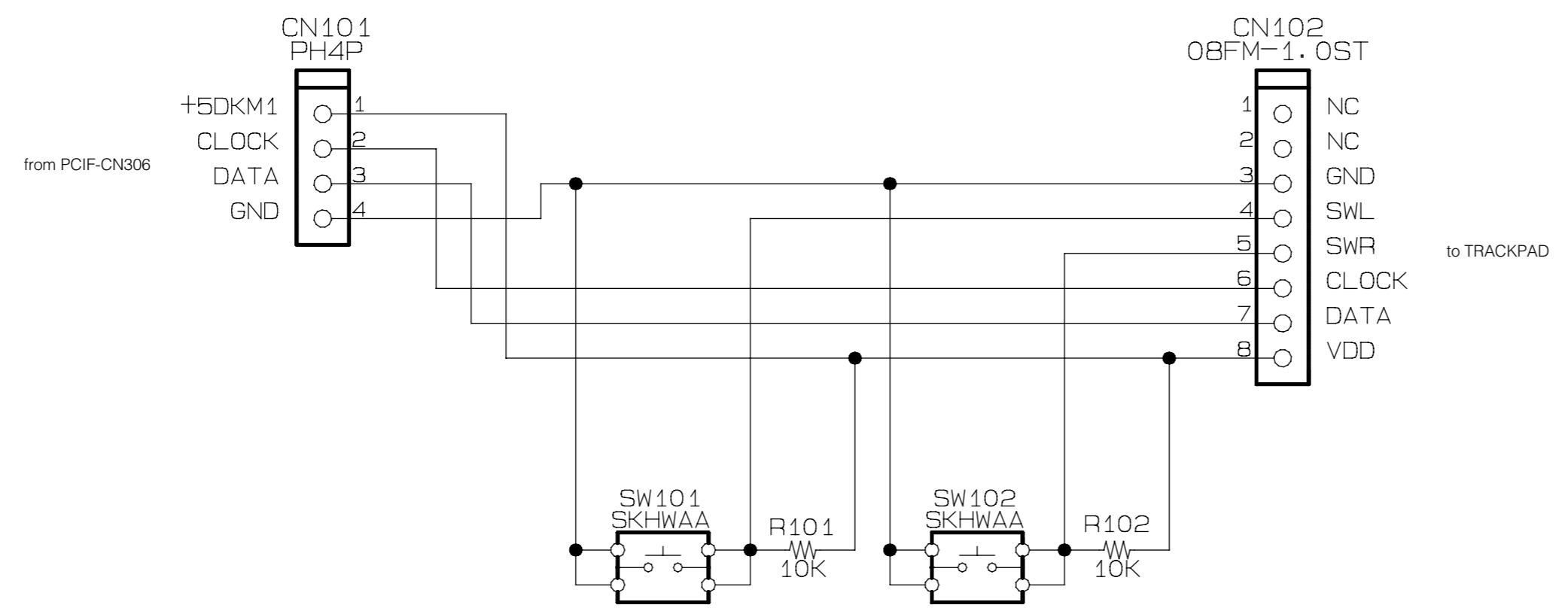
CS1D

[PC ATA STORAGE CARD]
[A]



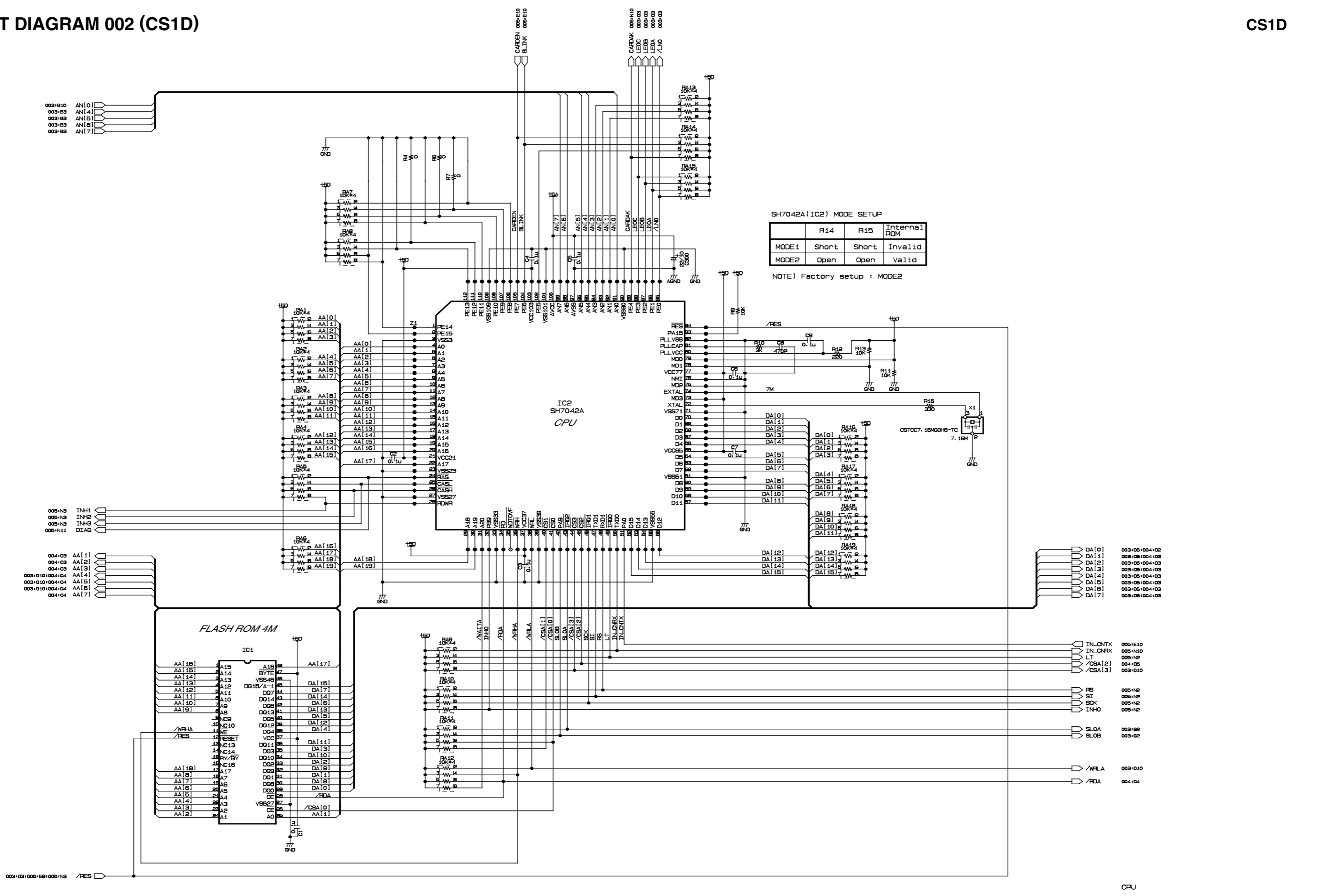
TPSW CIRCUIT DIAGRAM (CS1D)

CS1D



ISCPU CIRCUIT DIAGRAM 002 (CS1D)

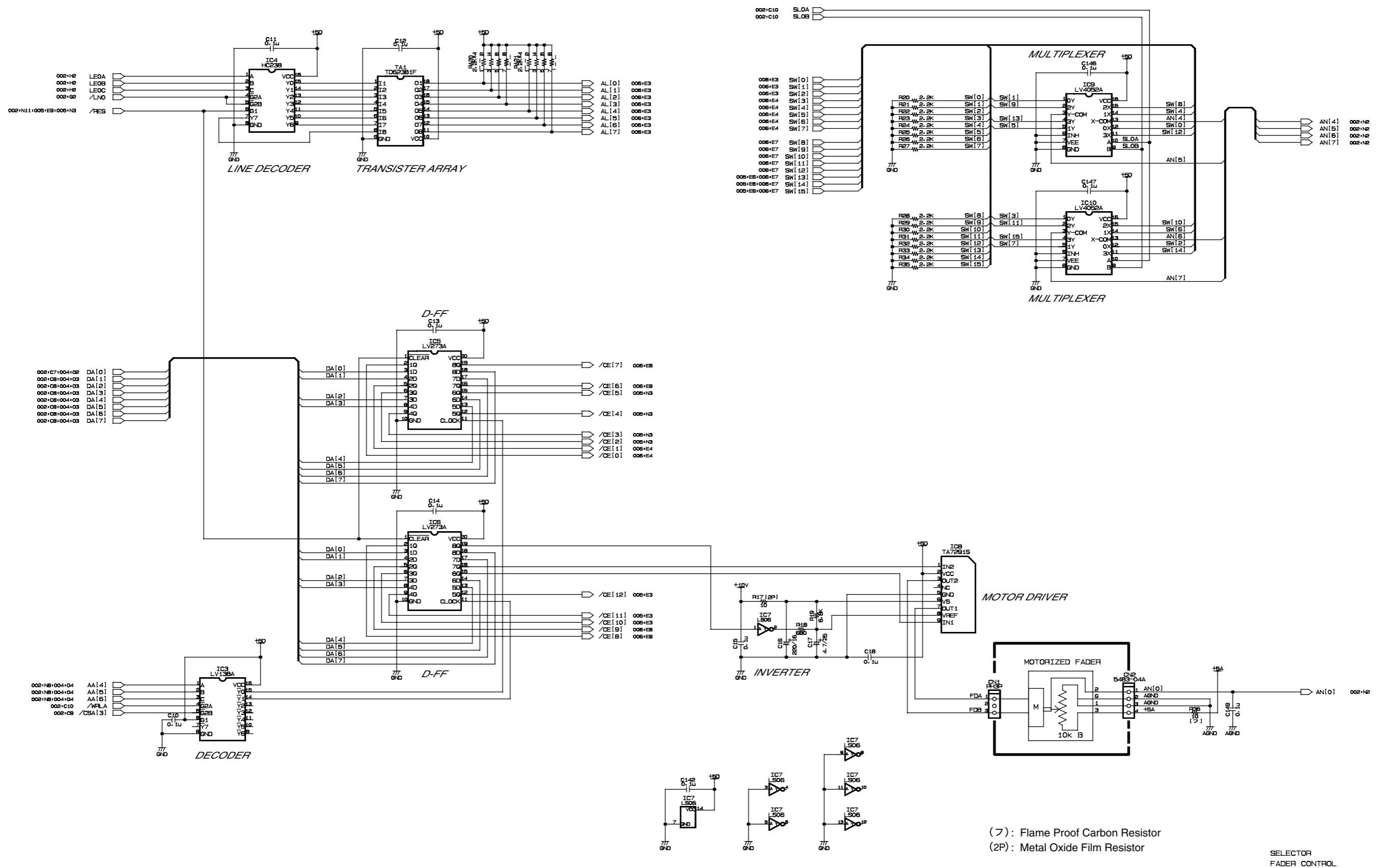
CS1D



SH7042A(IC2) MODE SETUP

	R14	R15	Internal ROM
MODE1	Short	Short	Invalid
MODE2	Open	Open	Valid

NOTE) Factory setup : MODE2



(7) : Flame Proof Carbon Resistor
 (2P) : Metal Oxide Film Resistor

SELECTOR
 FADER CONTROL

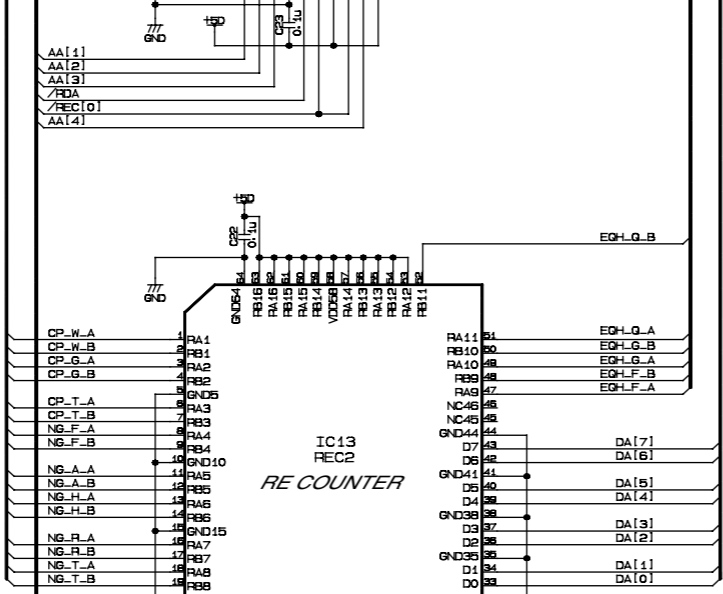
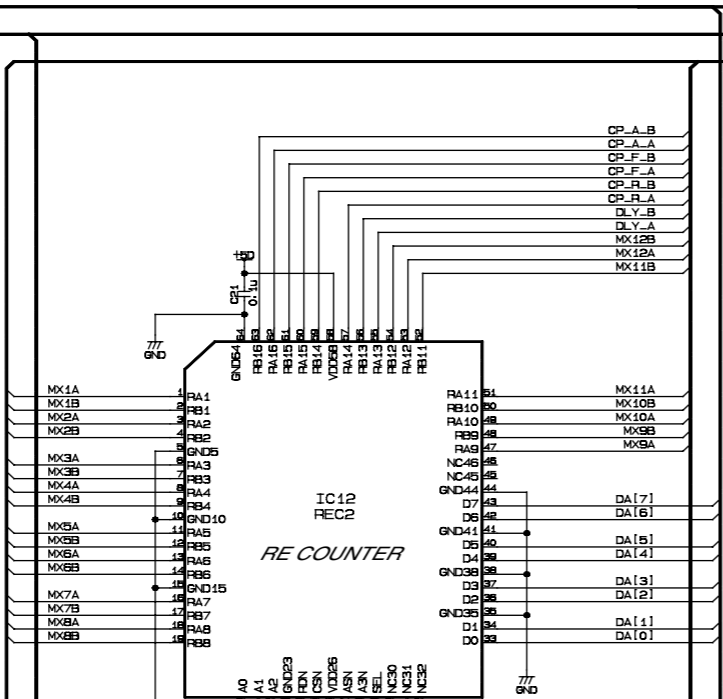
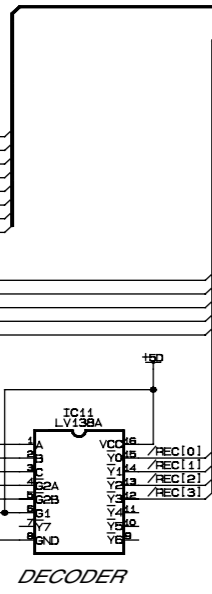
ISCPU CIRCUIT DIAGRAM 004 (CS1D)

CS1D

002+C7+003+06 DA[0]
 002+CB+003+06 DA[1]
 002+CB+003+06 DA[2]
 002+CB+003+06 DA[3]
 002+CB+003+06 DA[4]
 002+CB+003+06 DA[5]
 002+CB+003+06 DA[6]
 002+CB+003+06 DA[7]

002+NB AA[1]
 002+NB AA[2]
 002+NB AA[3]
 002+NB+003+010 AA[4]
 002+C10 /RDA

002+NB+003+010 AA[5]
 002+NB+003+010 AA[6]
 002+NB AA[7]
 002+NB /CSA[2]

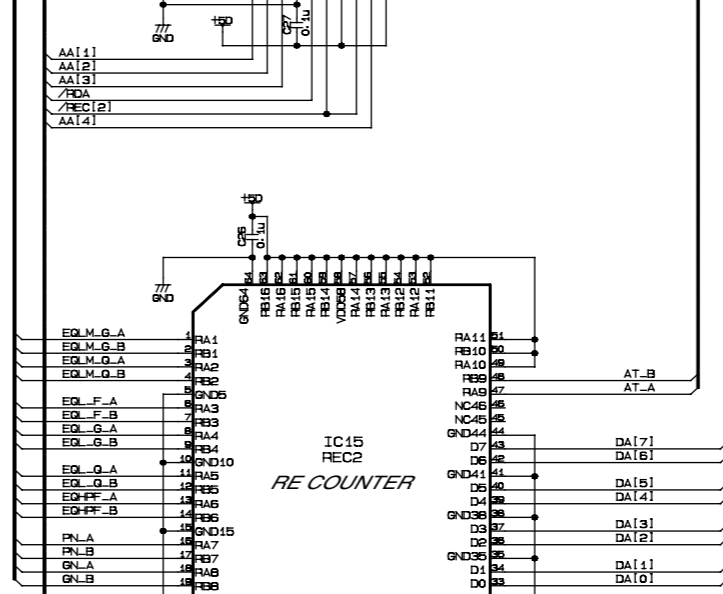
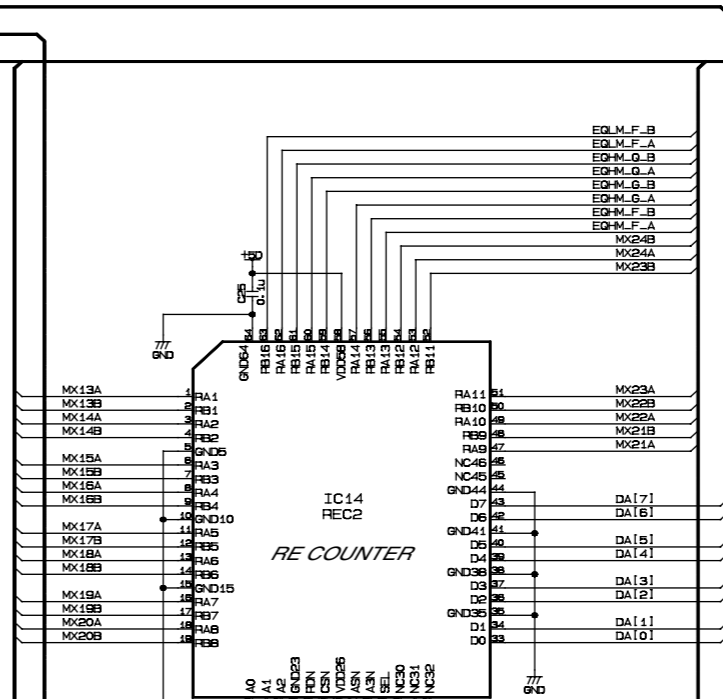


AA[1]
 AA[2]
 AA[3]
 /RDA
 /REC[0]
 AA[4]

002+NB+003+010 AA[5]
 002+NB+003+010 AA[6]
 002+NB AA[7]
 002+NB /CSA[2]

002+NB AA[1]
 002+NB AA[2]
 002+NB AA[3]
 002+NB+003+010 AA[4]
 002+C10 /RDA

002+NB+003+010 AA[5]
 002+NB+003+010 AA[6]
 002+NB AA[7]
 002+NB /CSA[2]

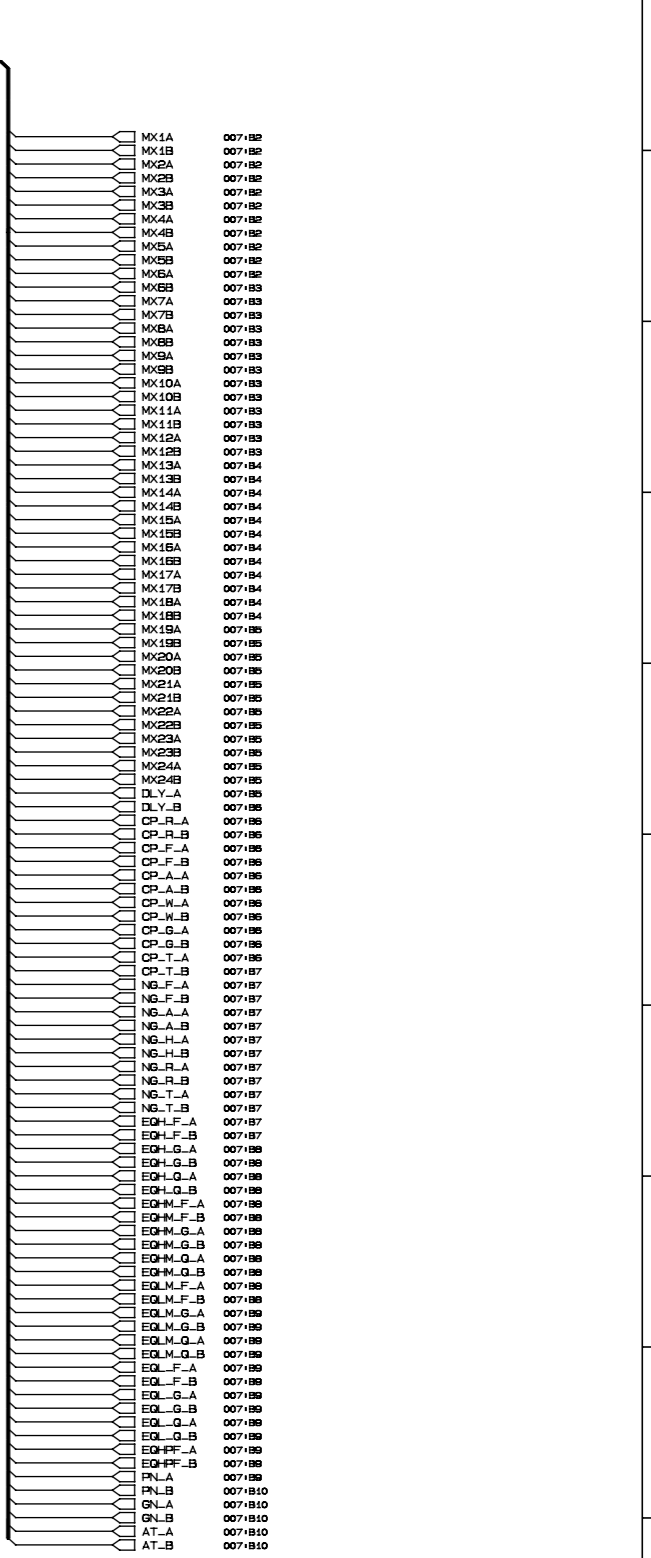


AA[1]
 AA[2]
 AA[3]
 /RDA
 /REC[2]
 AA[4]

002+NB+003+010 AA[5]
 002+NB+003+010 AA[6]
 002+NB AA[7]
 002+NB /CSA[2]

002+NB AA[1]
 002+NB AA[2]
 002+NB AA[3]
 002+NB+003+010 AA[4]
 002+C10 /RDA

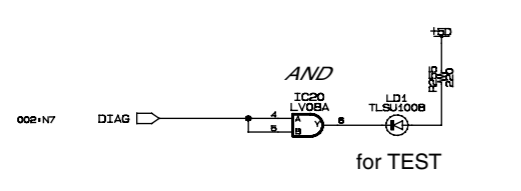
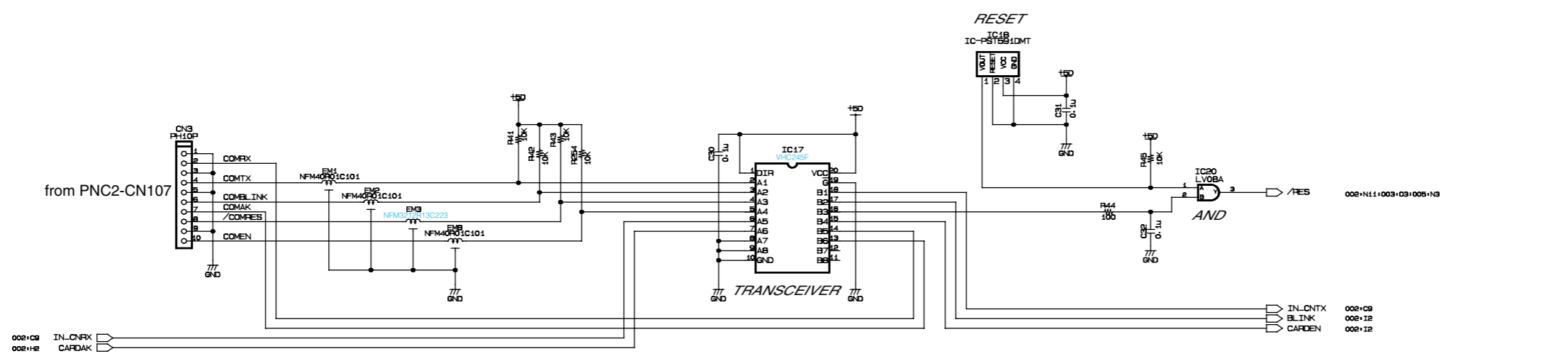
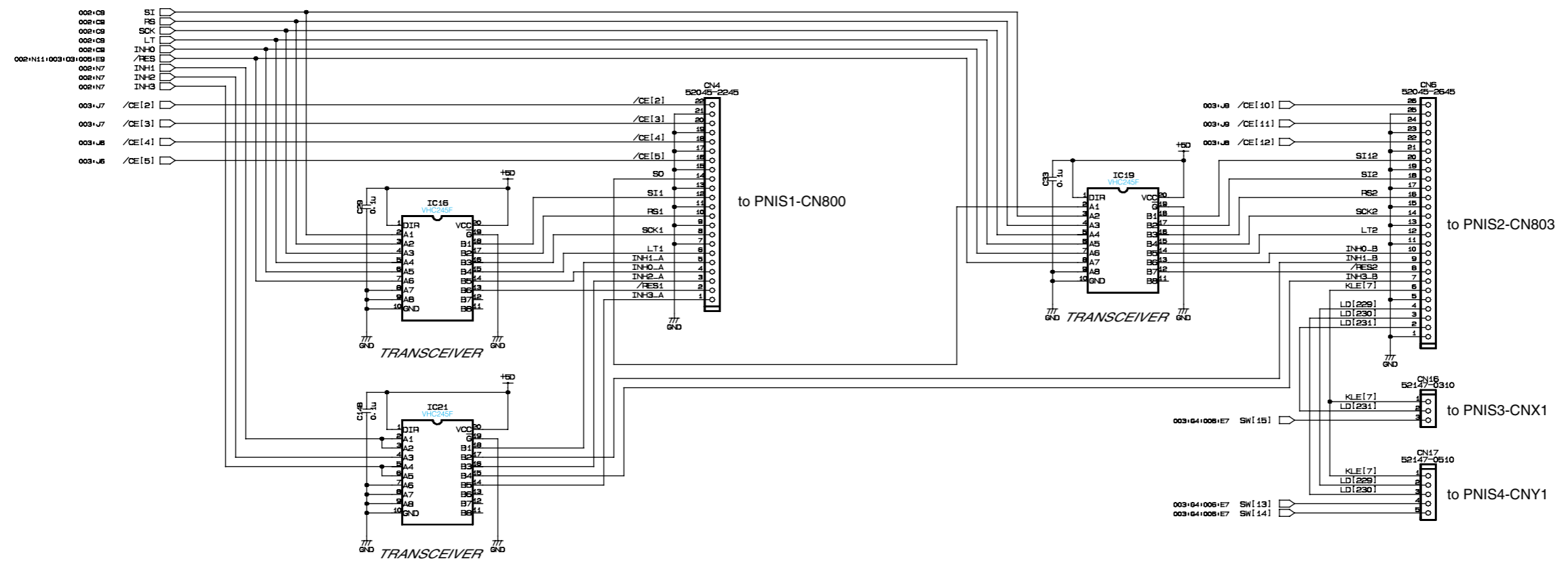
002+NB+003+010 AA[5]
 002+NB+003+010 AA[6]
 002+NB AA[7]
 002+NB /CSA[2]



ENCODER I/F

ISCPU CIRCUIT DIAGRAM 005 (CS1D)

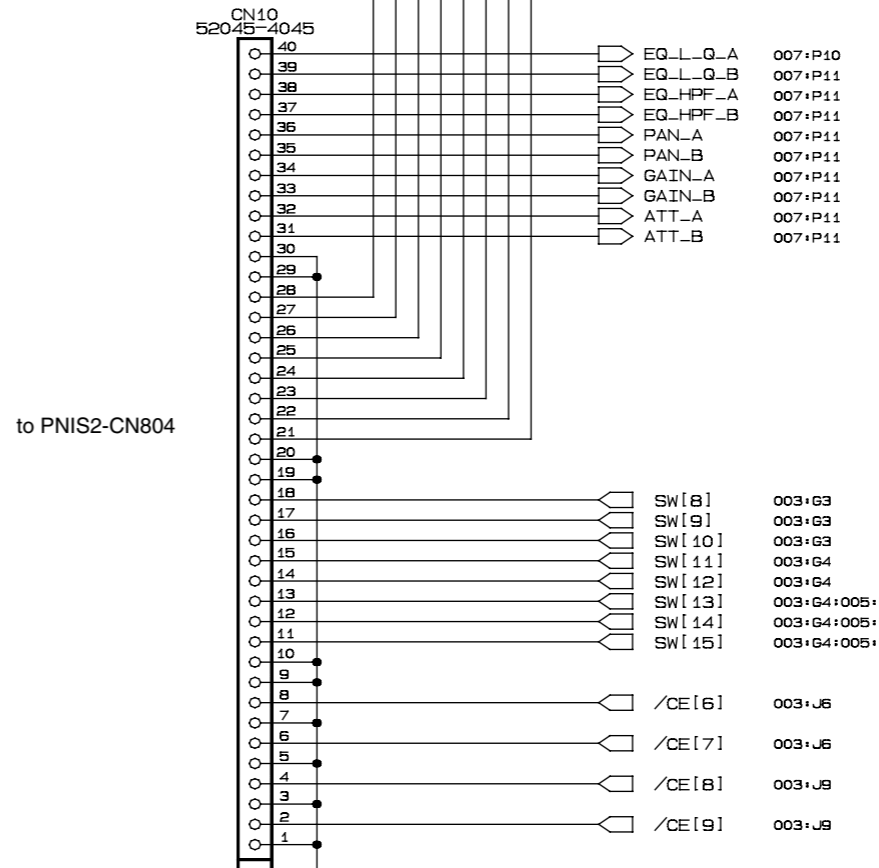
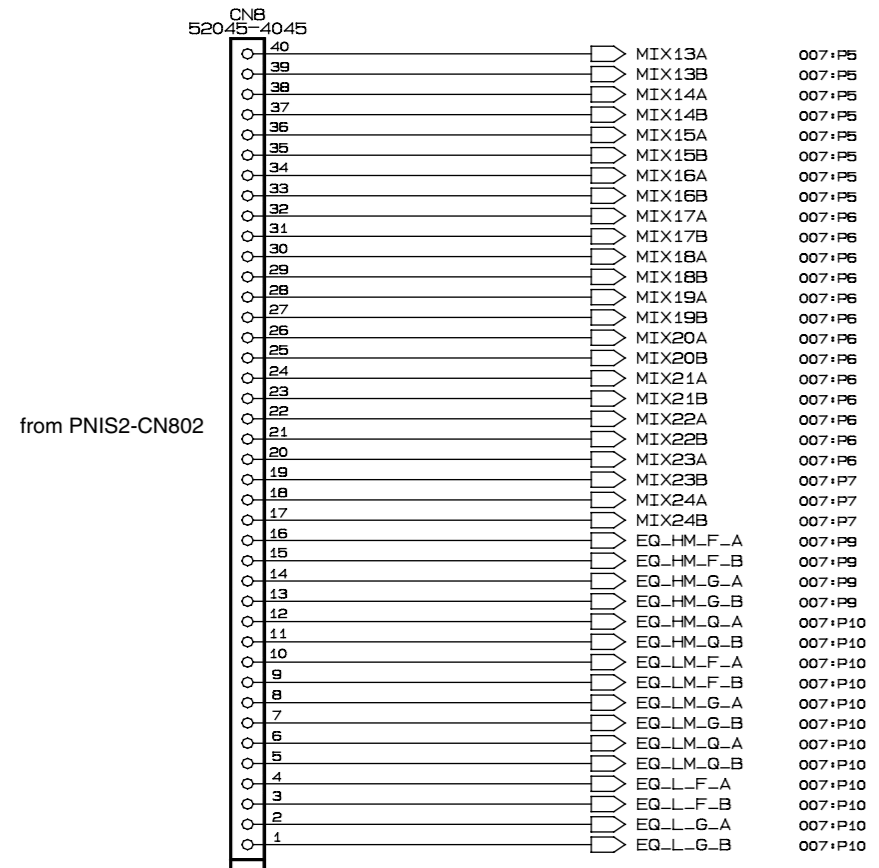
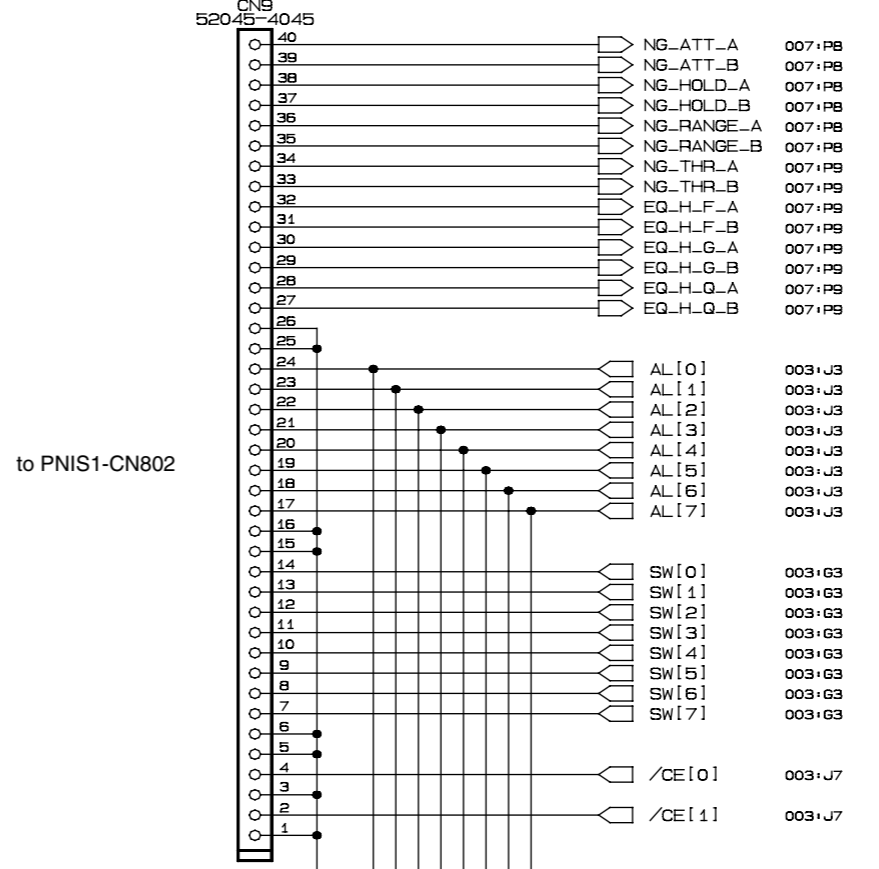
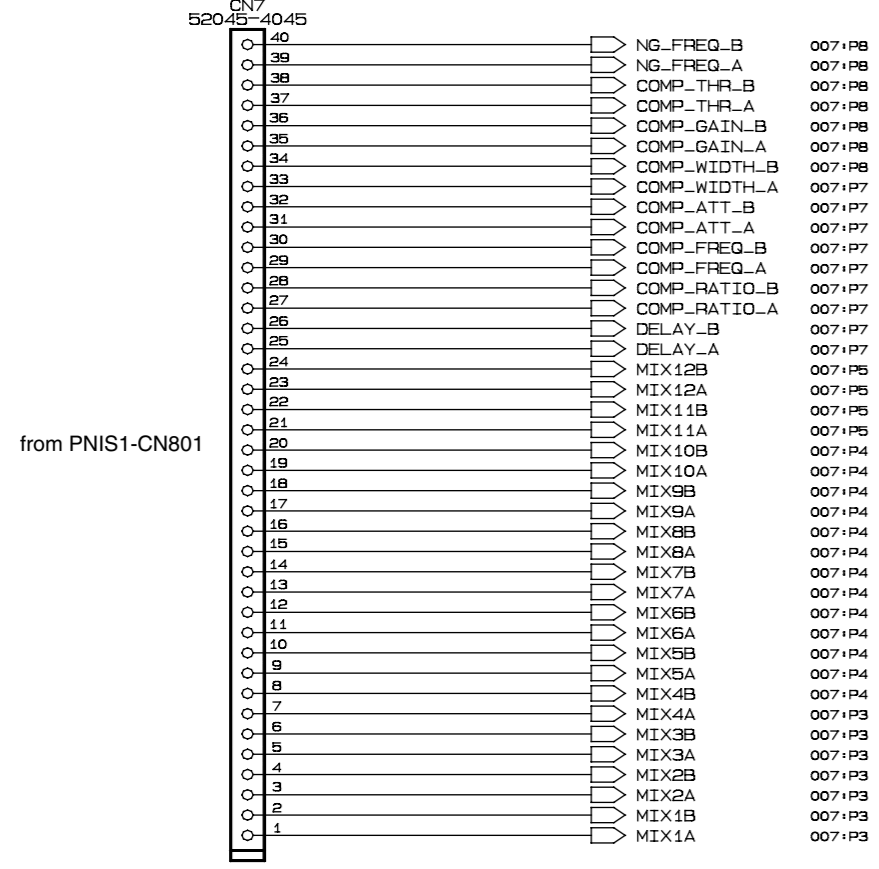
CS1D



BUFFER & CONNECTOR

ISCPU CIRCUIT DIAGRAM 006 (CS1D)

CS1D



1
2
3
4
5
6
7
8

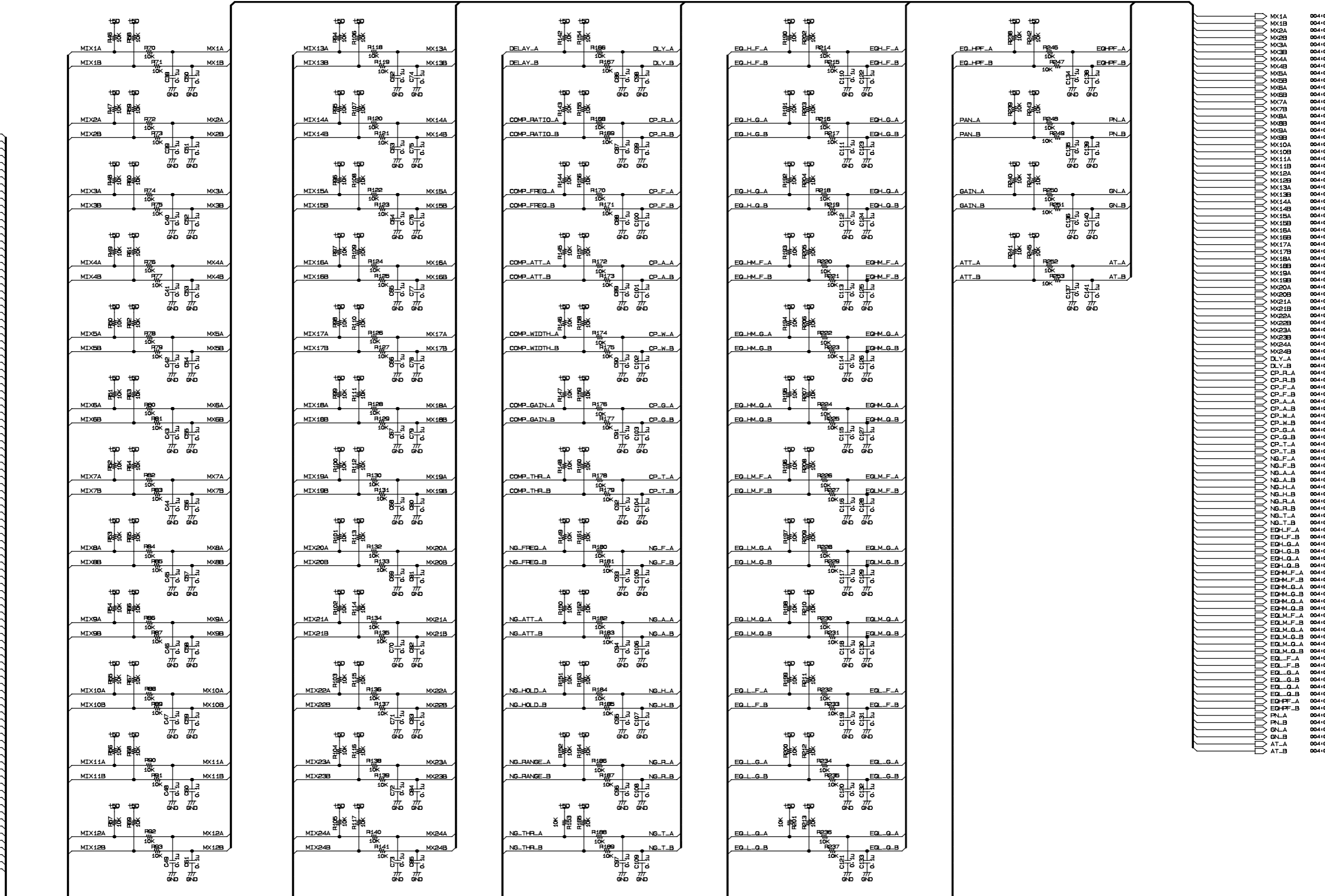
CONNECTOR

ISCPU CIRCUIT DIAGRAM 007 (CS1D)

CS1D

1
2
3
4
5
6
7
8
9
10
11
12

- 006:14 MIX14A
- 006:14 MIX14B
- 006:14 MIX2A
- 006:14 MIX2B
- 006:14 MIX3A
- 006:14 MIX3B
- 006:14 MIX4A
- 006:14 MIX4B
- 006:14 MIX5A
- 006:14 MIX5B
- 006:14 MIX6A
- 006:14 MIX6B
- 006:13 MIX7A
- 006:13 MIX7B
- 006:13 MIX8A
- 006:13 MIX8B
- 006:13 MIX9A
- 006:13 MIX9B
- 006:13 MIX10A
- 006:13 MIX10B
- 006:13 MIX11A
- 006:13 MIX11B
- 006:13 MIX12A
- 006:13 MIX12B
- 006:15 MIX13A
- 006:15 MIX13B
- 006:15 MIX14A
- 006:15 MIX14B
- 006:15 MIX15A
- 006:15 MIX15B
- 006:15 MIX16A
- 006:15 MIX16B
- 006:15 MIX17A
- 006:15 MIX17B
- 006:15 MIX18A
- 006:15 MIX18B
- 006:15 MIX19A
- 006:15 MIX19B
- 006:15 MIX20A
- 006:15 MIX20B
- 006:15 MIX21A
- 006:15 MIX21B
- 006:15 MIX22A
- 006:15 MIX22B
- 006:17 MIX23A
- 006:17 MIX23B
- 006:17 MIX24A
- 006:17 MIX24B
- 006:12 DELAY_A
- 006:12 DELAY_B
- 006:12 COMP_RATIO_A
- 006:12 COMP_RATIO_B
- 006:12 COMP_FREQ_A
- 006:12 COMP_FREQ_B
- 006:12 COMP_ATT_A
- 006:12 COMP_ATT_B
- 006:12 COMP_WIDTH_A
- 006:12 COMP_WIDTH_B
- 006:12 COMP_GAIN_A
- 006:12 COMP_GAIN_B
- 006:11 COMP_THR_A
- 006:11 COMP_THR_B
- 006:11 NG_FREQ_A
- 006:11 NG_FREQ_B
- 006:11 NG_ATT_A
- 006:11 NG_ATT_B
- 006:11 NG_HOLD_A
- 006:11 NG_HOLD_B
- 006:12 NG_RANGE_A
- 006:12 NG_RANGE_B
- 006:12 NG_THR_A
- 006:12 NG_THR_B
- 006:12 EQ_H_F_A
- 006:12 EQ_H_F_B
- 006:12 EQ_H_G_A
- 006:12 EQ_H_G_B
- 006:12 EQ_H_Q_A
- 006:12 EQ_H_Q_B
- 006:17 EQ_HM_F_A
- 006:17 EQ_HM_F_B
- 006:17 EQ_HM_G_A
- 006:17 EQ_HM_G_B
- 006:17 EQ_HM_Q_A
- 006:17 EQ_HM_Q_B
- 006:17 EQ_LM_F_A
- 006:17 EQ_LM_F_B
- 006:17 EQ_LM_G_A
- 006:17 EQ_LM_G_B
- 006:17 EQ_LM_Q_A
- 006:17 EQ_LM_Q_B
- 006:18 EQ_L_F_A
- 006:18 EQ_L_F_B
- 006:18 EQ_L_G_A
- 006:18 EQ_L_G_B
- 006:18 EQ_L_Q_A
- 006:18 EQ_L_Q_B
- 006:18 EQ_HPF_A
- 006:18 EQ_HPF_B
- 006:18 EQ_LPF_A
- 006:18 EQ_LPF_B
- 006:18 PAN_A
- 006:18 PAN_B
- 006:18 GAIN_A
- 006:18 GAIN_B
- 006:18 ATT_A
- 006:18 ATT_B

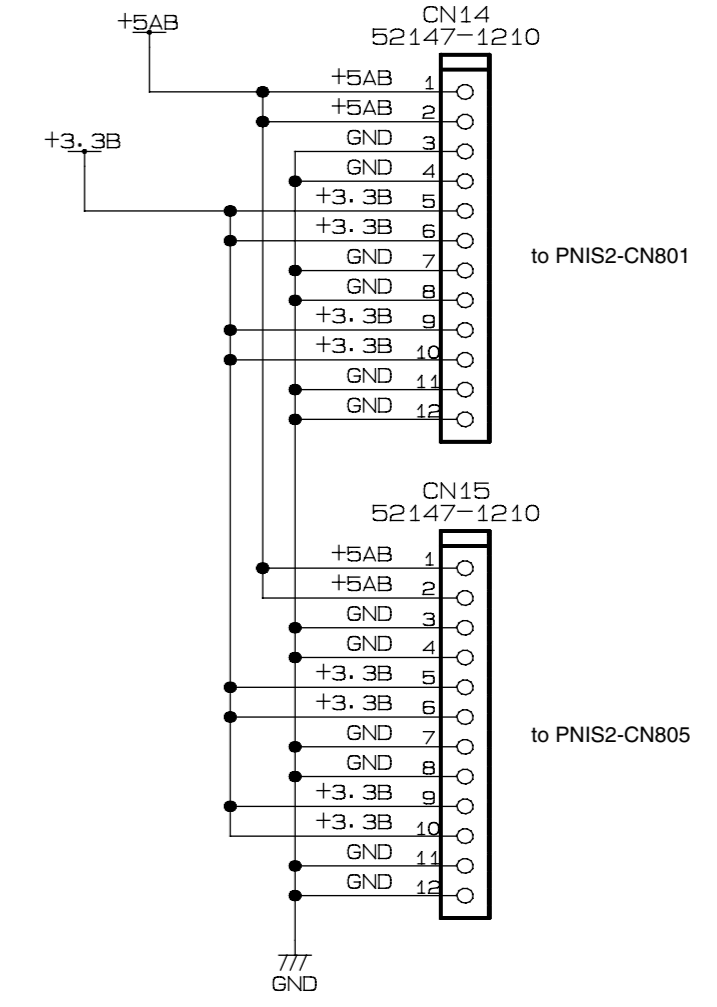
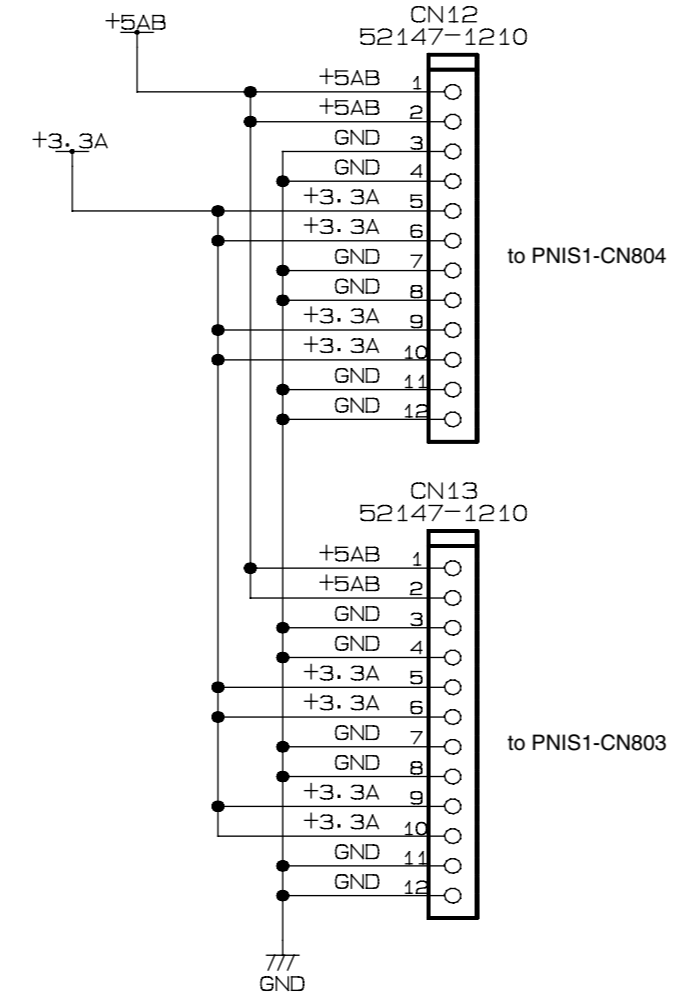
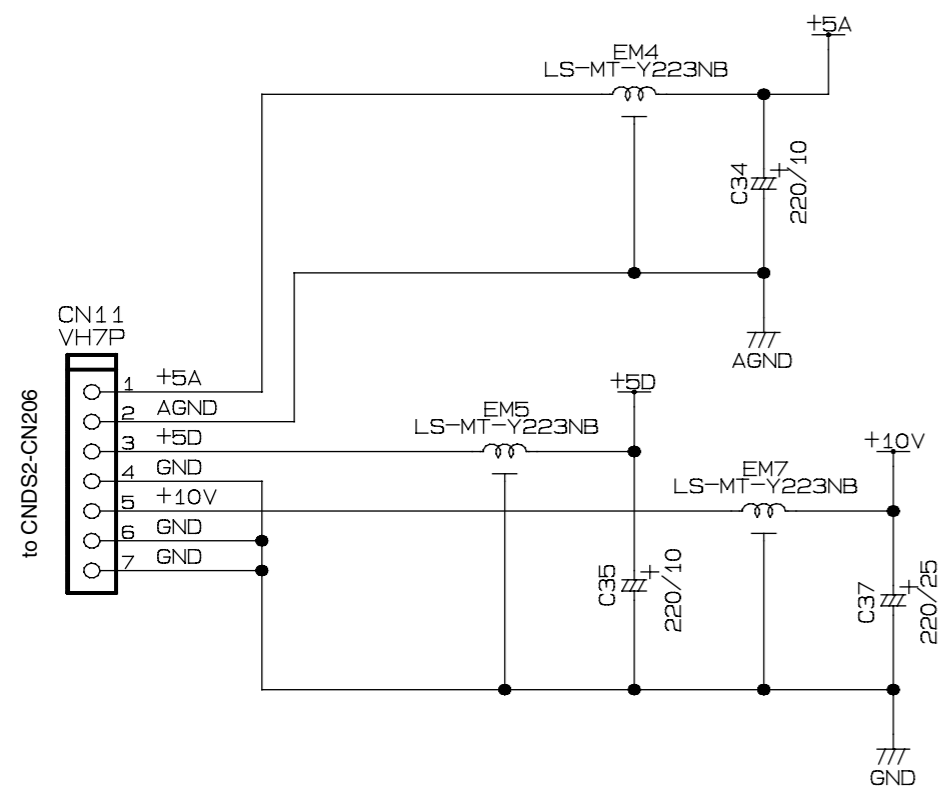
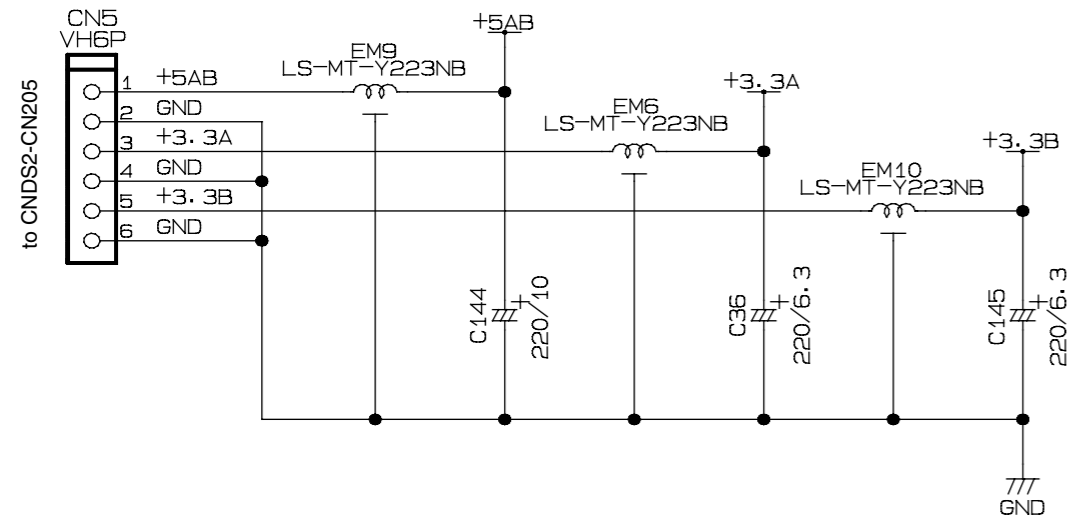


ENCODER INPUT

- MX1A 004:02
- MX1B 004:03
- MX2A 004:03
- MX2B 004:03
- MX3A 004:03
- MX3B 004:03
- MX4A 004:03
- MX4B 004:03
- MX5A 004:03
- MX5B 004:03
- MX6A 004:03
- MX6B 004:03
- MX7A 004:03
- MX7B 004:03
- MX8A 004:04
- MX8B 004:04
- MX9A 004:04
- MX9B 004:04
- MX10A 004:04
- MX10B 004:04
- MX11A 004:04
- MX11B 004:04
- MX12A 004:04
- MX12B 004:04
- MX13A 004:04
- MX13B 004:04
- MX14A 004:05
- MX14B 004:05
- MX15A 004:05
- MX15B 004:05
- MX16A 004:05
- MX16B 004:05
- MX17A 004:05
- MX17B 004:05
- MX18A 004:05
- MX18B 004:05
- MX19A 004:05
- MX19B 004:05
- MX20A 004:05
- MX20B 004:05
- MX21A 004:05
- MX21B 004:05
- MX22A 004:05
- MX22B 004:05
- MX23A 004:05
- MX23B 004:05
- MX24A 004:05
- MX24B 004:05
- DLY_A 004:05
- DLY_B 004:05
- CP_RATIO_A 004:05
- CP_RATIO_B 004:07
- CP_FREQ_A 004:07
- CP_FREQ_B 004:07
- CP_ATT_A 004:07
- CP_ATT_B 004:07
- CP_WIDTH_A 004:07
- CP_WIDTH_B 004:07
- CP_GAIN_A 004:07
- CP_GAIN_B 004:07
- CP_THR_A 004:07
- CP_THR_B 004:07
- NG_FREQ_A 004:07
- NG_FREQ_B 004:07
- NG_ATT_A 004:08
- NG_ATT_B 004:08
- NG_HOLD_A 004:08
- NG_HOLD_B 004:08
- NG_RANGE_A 004:08
- NG_RANGE_B 004:08
- NG_THR_A 004:08
- NG_THR_B 004:08
- EQ_H_F_A 004:08
- EQ_H_F_B 004:08
- EQ_H_G_A 004:08
- EQ_H_G_B 004:08
- EQ_H_Q_A 004:08
- EQ_H_Q_B 004:08
- EQ_LM_F_A 004:08
- EQ_LM_F_B 004:08
- EQ_LM_G_A 004:08
- EQ_LM_G_B 004:08
- EQ_LM_Q_A 004:08
- EQ_LM_Q_B 004:08
- EQ_L_F_A 004:10
- EQ_L_F_B 004:10
- EQ_L_G_A 004:10
- EQ_L_G_B 004:10
- EQ_L_Q_A 004:10
- EQ_L_Q_B 004:10
- EQ_HPF_A 004:10
- EQ_HPF_B 004:10
- PN_A 004:10
- PN_B 004:10
- GN_A 004:10
- GN_B 004:10
- AT_A 004:11
- AT_B 004:11

■ ISCPU CIRCUIT DIAGRAM 008 (CS1D)

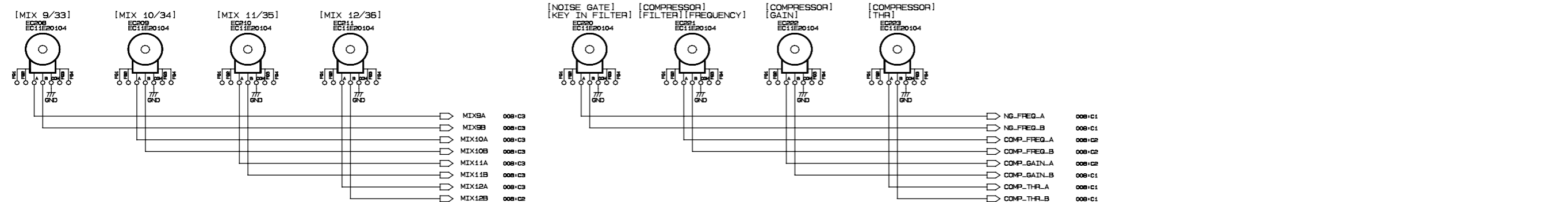
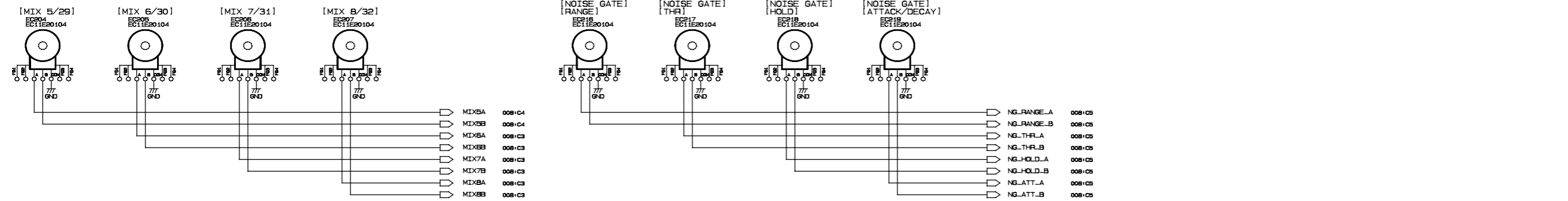
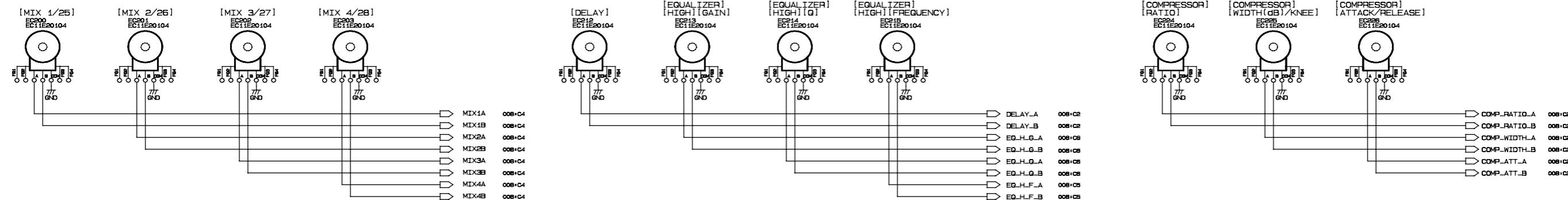
CS1D



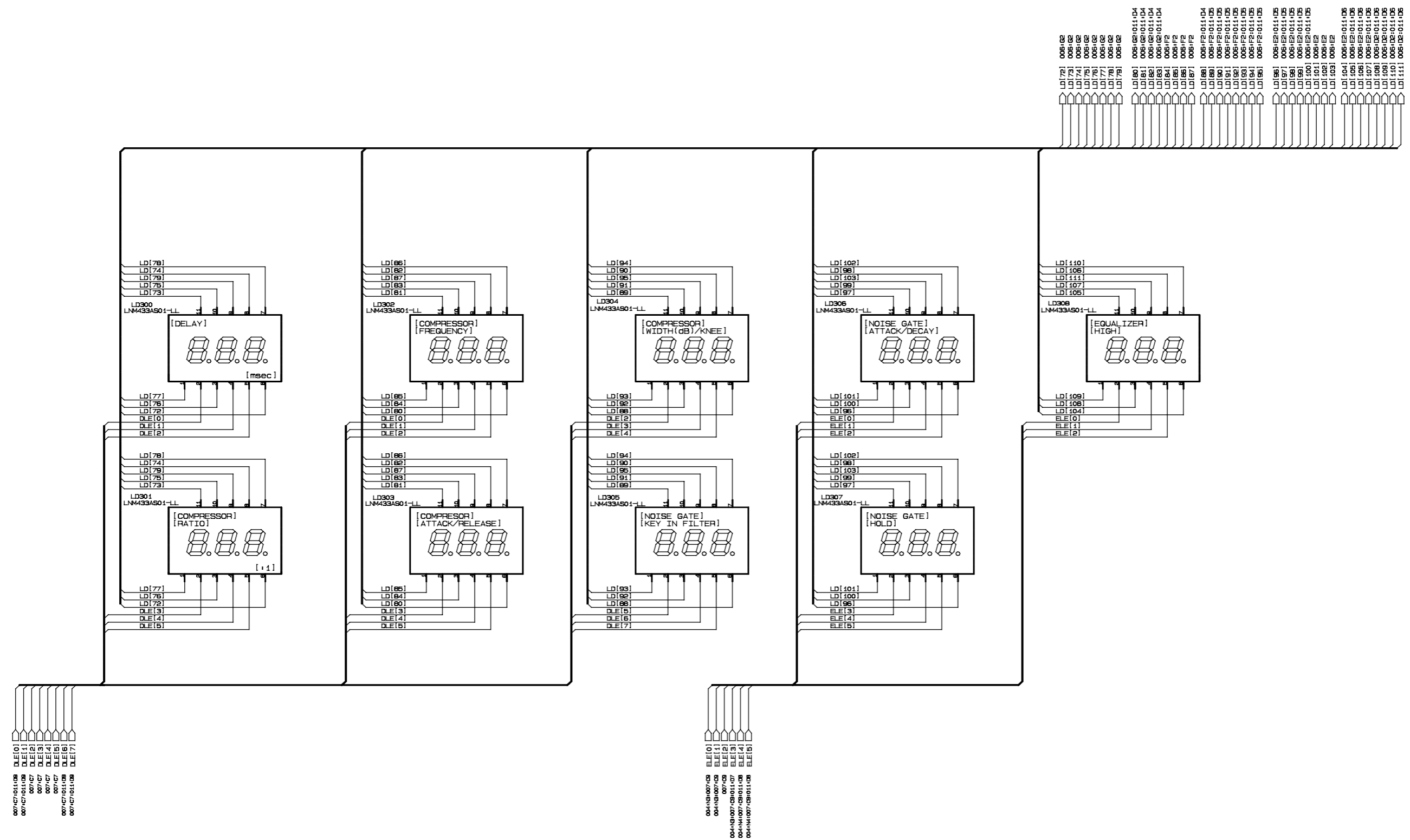
CONNECTOR

PNIS1 CIRCUIT DIAGRAM 002 (CS1D)

CS1D



[MIX SEND][MIX 1/25]-[MIX 12/36]
[DELAY], [COMPRESSOR], [NOISE GATE]
[EQUALIZER][HIGH]



- LD172
- LD173
- LD174
- LD175
- LD176
- LD177
- LD178
- LD179
- LD180
- LD181
- LD182
- LD183
- LD184
- LD185
- LD186
- LD187
- LD188
- LD189
- LD190
- LD191
- LD192
- LD193
- LD194
- LD195
- LD196
- LD197
- LD198
- LD199
- LD100
- LD101
- LD102
- LD103
- LD104
- LD105
- LD106
- LD107
- LD108
- LD109
- LD110
- LD111

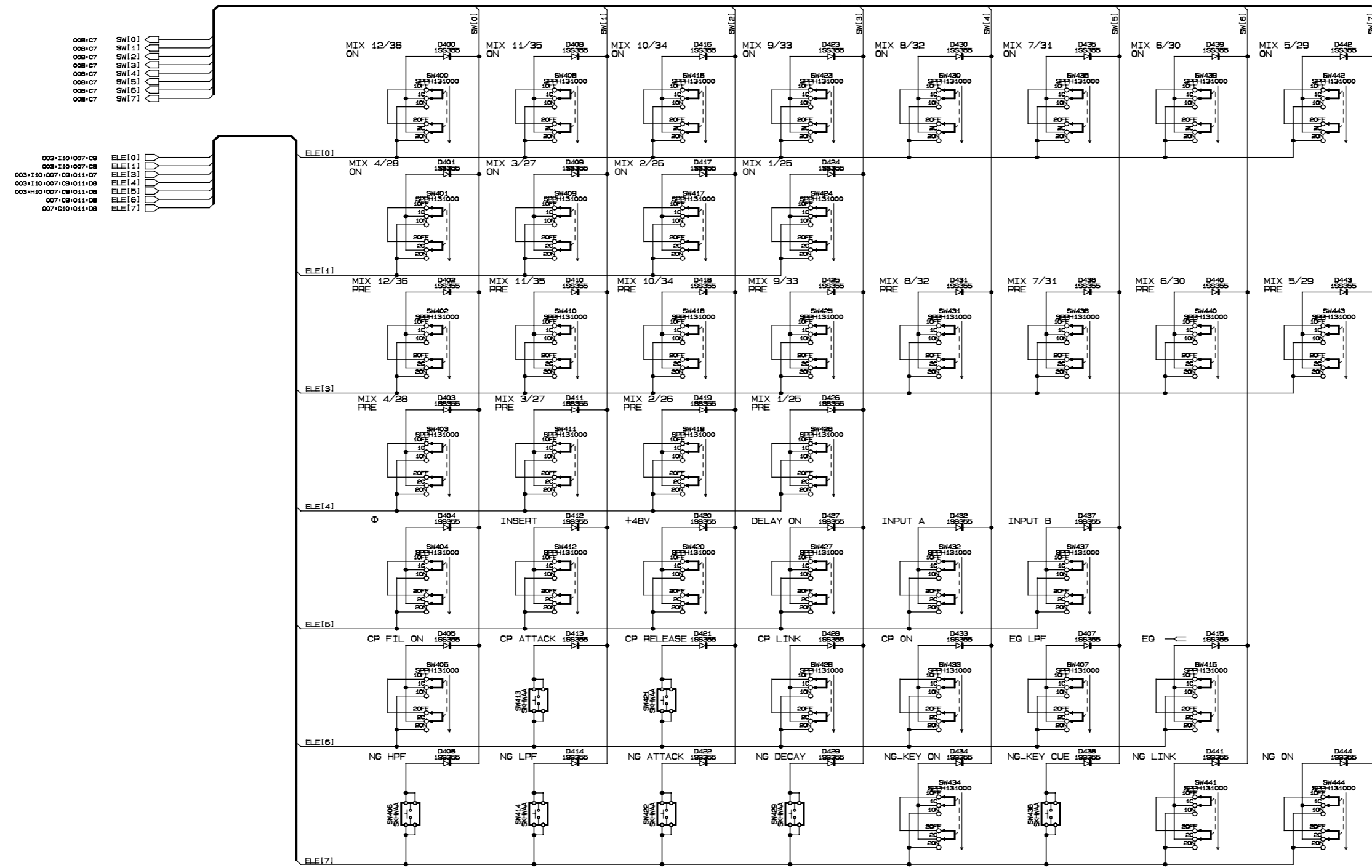
- DLE0
- DLE1
- DLE2
- DLE3
- DLE4
- DLE5
- DLE6
- DLE7

- ELE0
- ELE1
- ELE2
- ELE3
- ELE4
- ELE5
- ELE6
- ELE7

[DELAY], [COMPRESSOR], [NOISE GATE]
[EQUALIZER][HIGH]

PNIS1 CIRCUIT DIAGRAM 004 (CS1D)

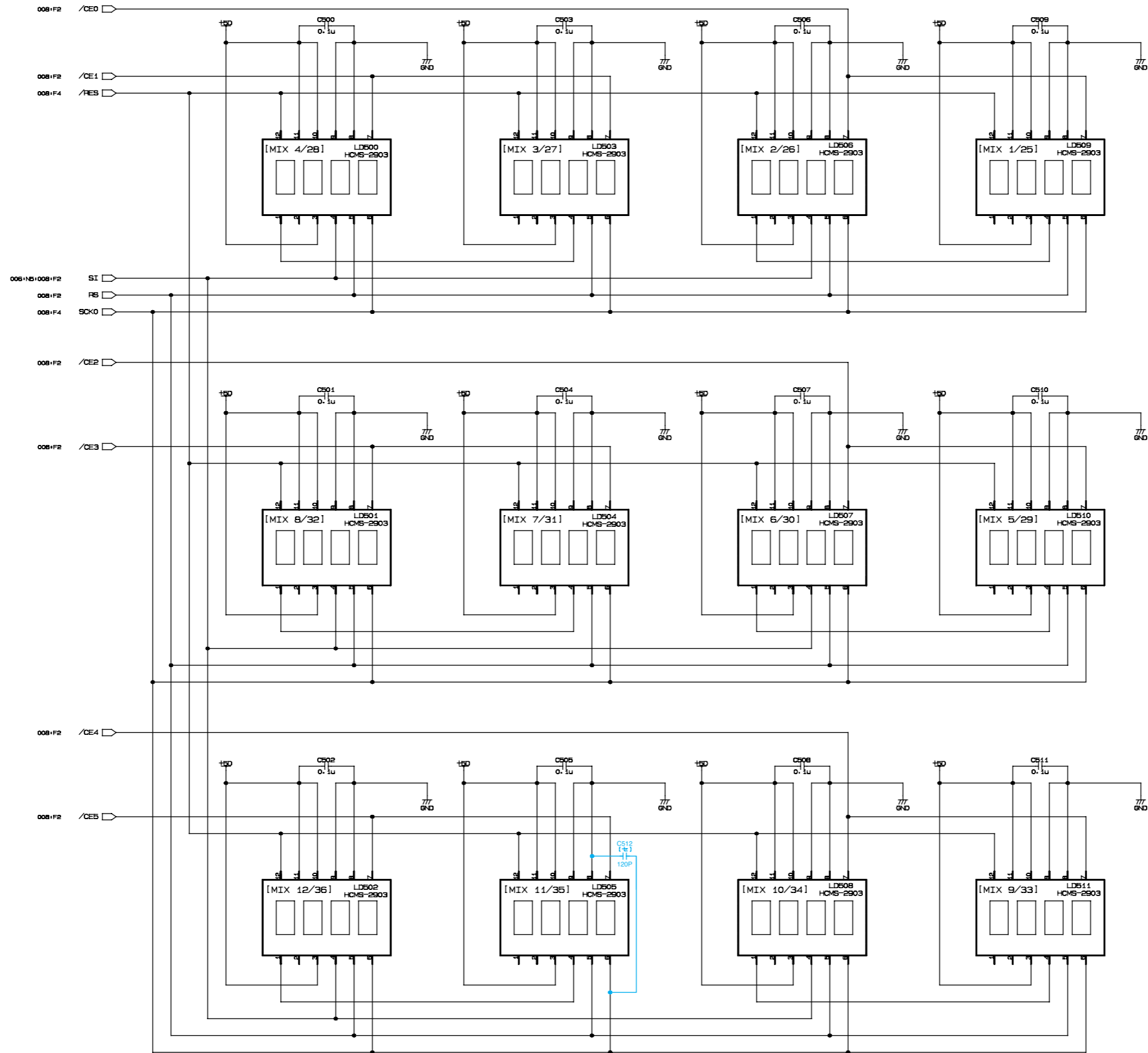
CS1D



[MIX SEND][MIX 1/25]-[MIX 12/36]
 [+4BV/φ/INSERT], [DELAY], [INPUT]
 [COMPRESSOR], [NOISE GATE], [EQUALIZER][HIGH]

PNIS1 CIRCUIT DIAGRAM 005 (CS1D)

CS1D

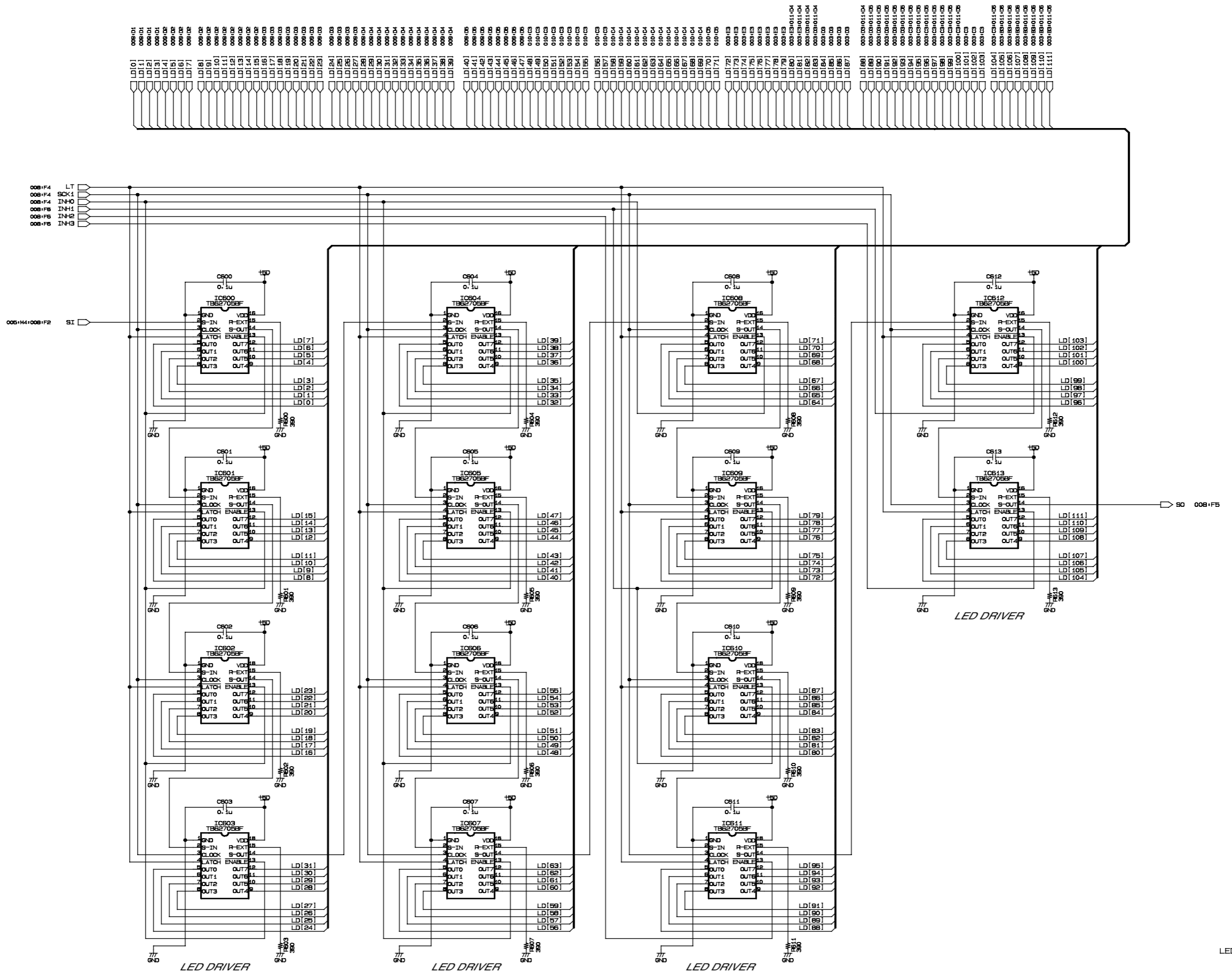


(C): Ceramic Capacitor

[MIX SEND][MIX 1/25]-[MIX 12/36]

PNIS1 CIRCUIT DIAGRAM 006 (CS1D)

CS1D



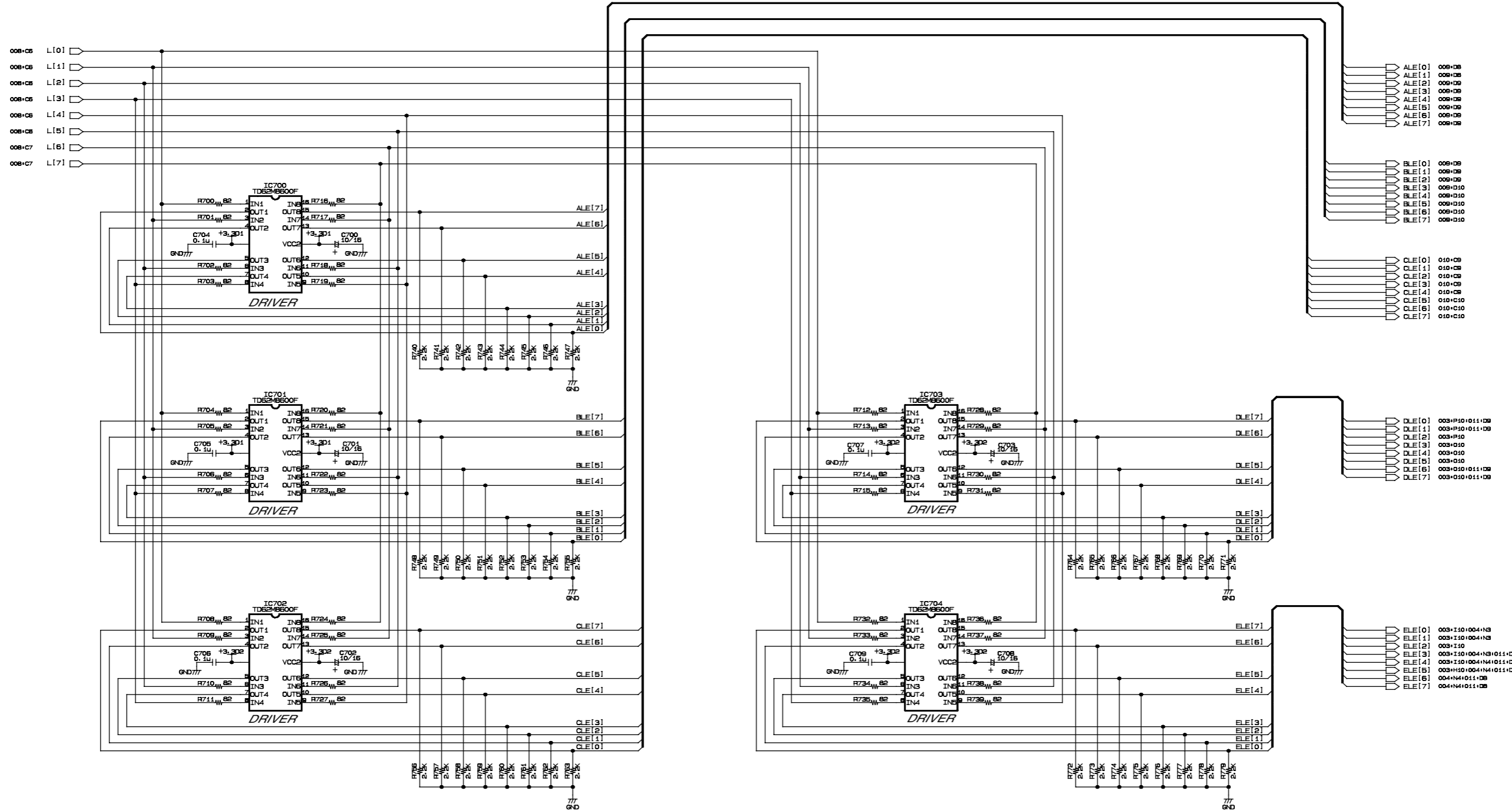
LED DRIVER

LED DRIVER

LED DRIVER

LED DRIVER

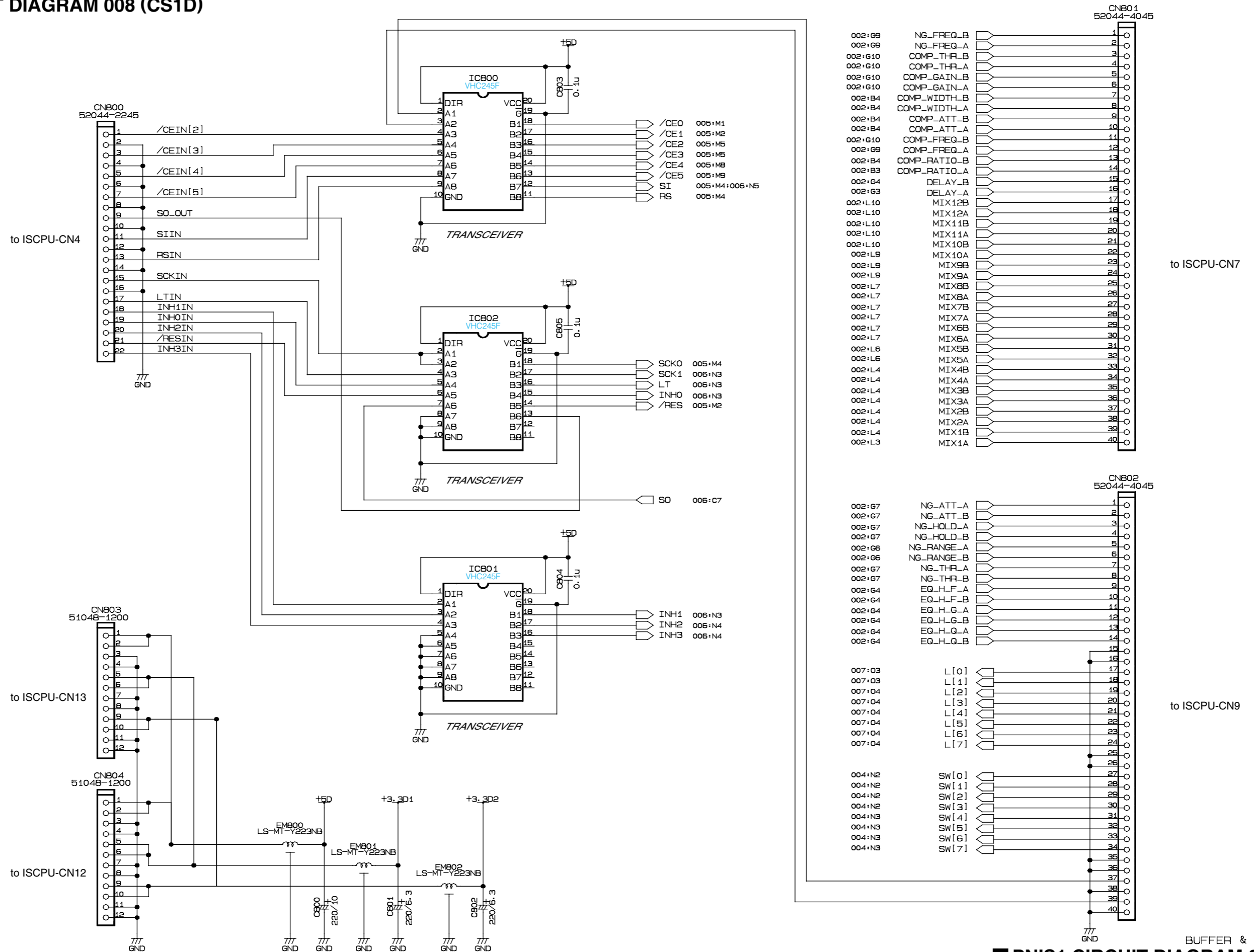
LED SCAN DRIVER



LED/SW SOURCE DRIVER

PNIS1 CIRCUIT DIAGRAM 008 (CS1D)

CS1D

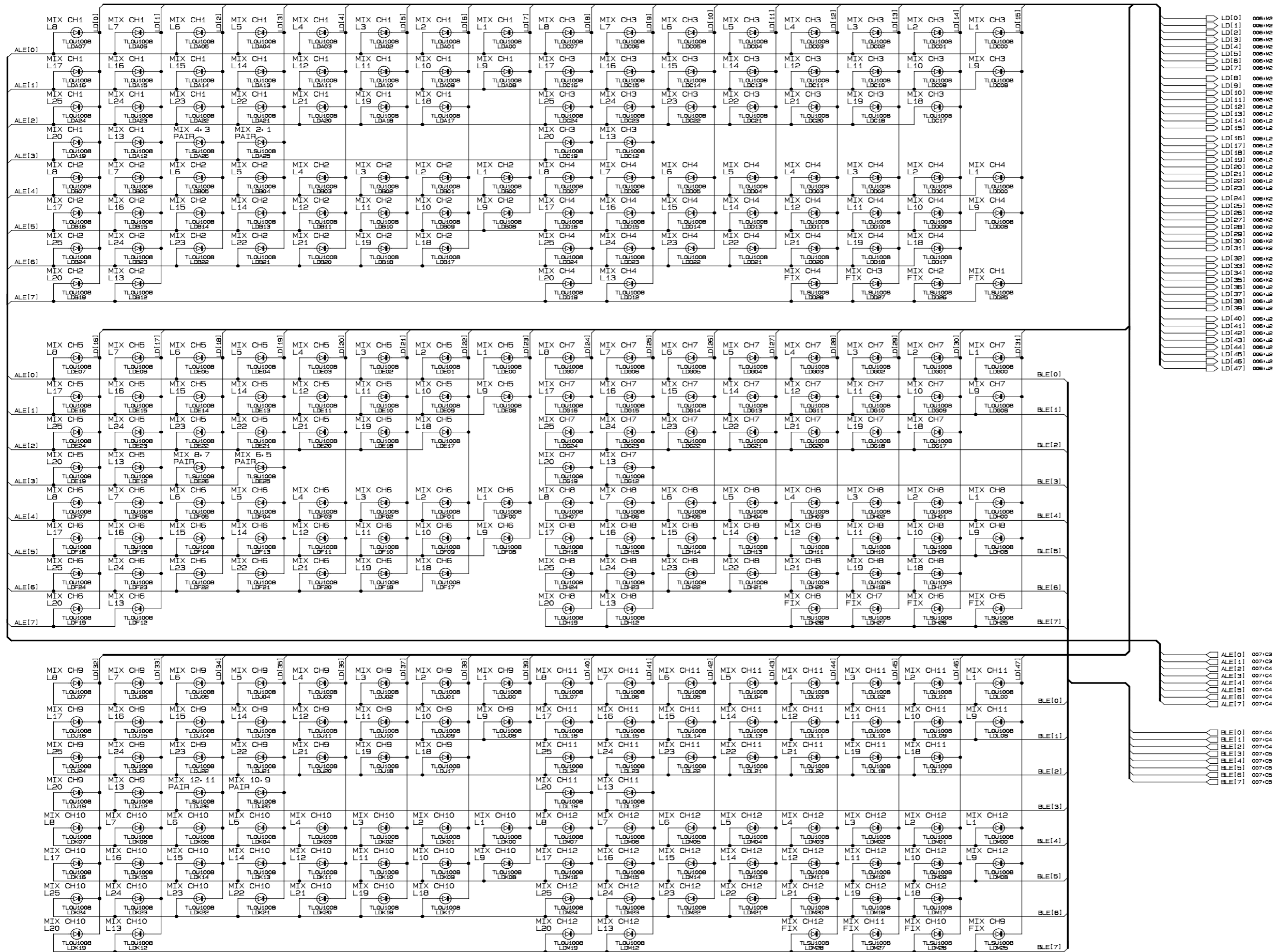


PNIS1 CIRCUIT DIAGRAM 008 (CS1D)

BUFFER & CONNECTOR

PNIS1 CIRCUIT DIAGRAM 009 (CS1D)

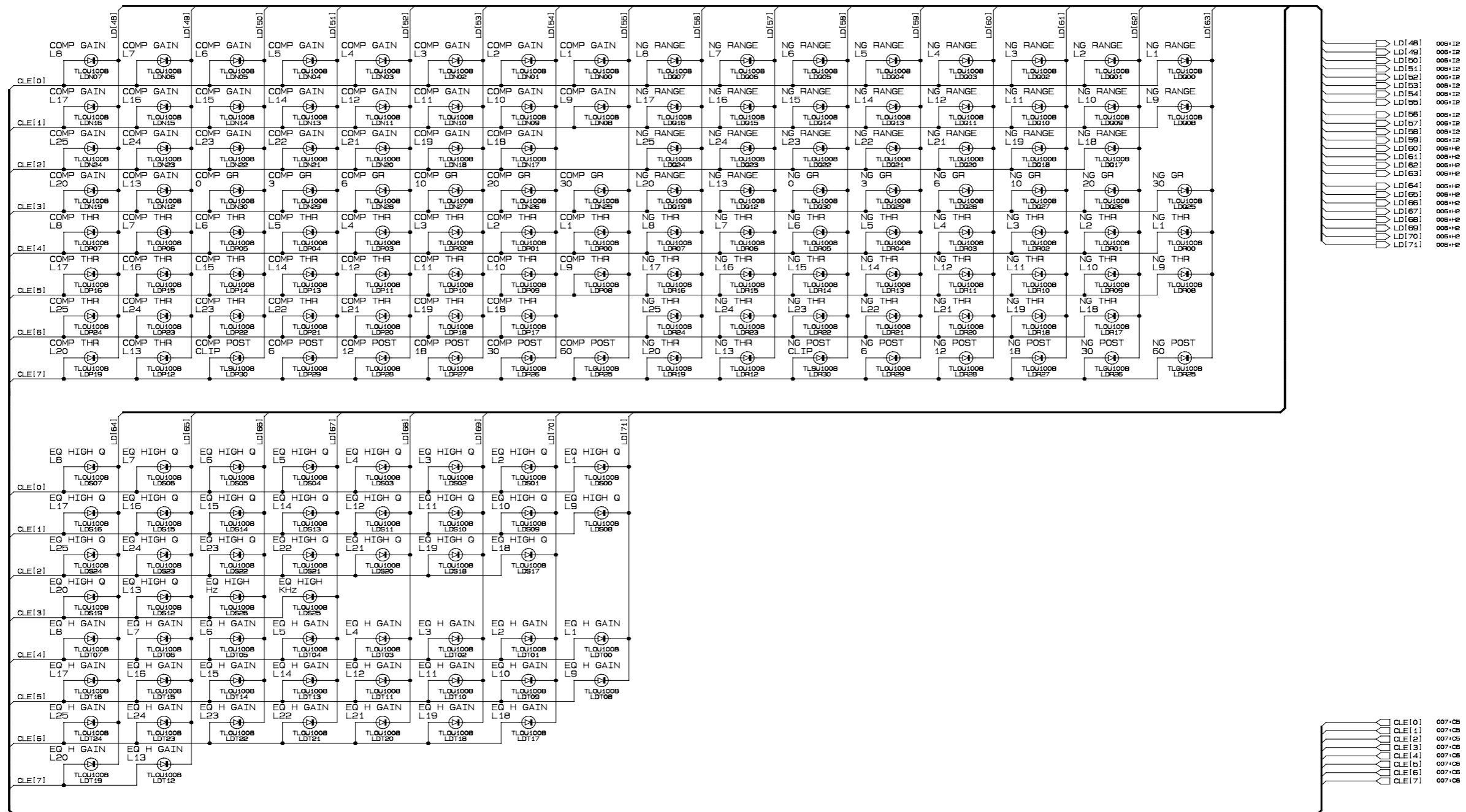
CS1D



[MIX SEND][MIX 1/25]-[MIX 12/36]

PNIS1 CIRCUIT DIAGRAM 010 (CS1D)

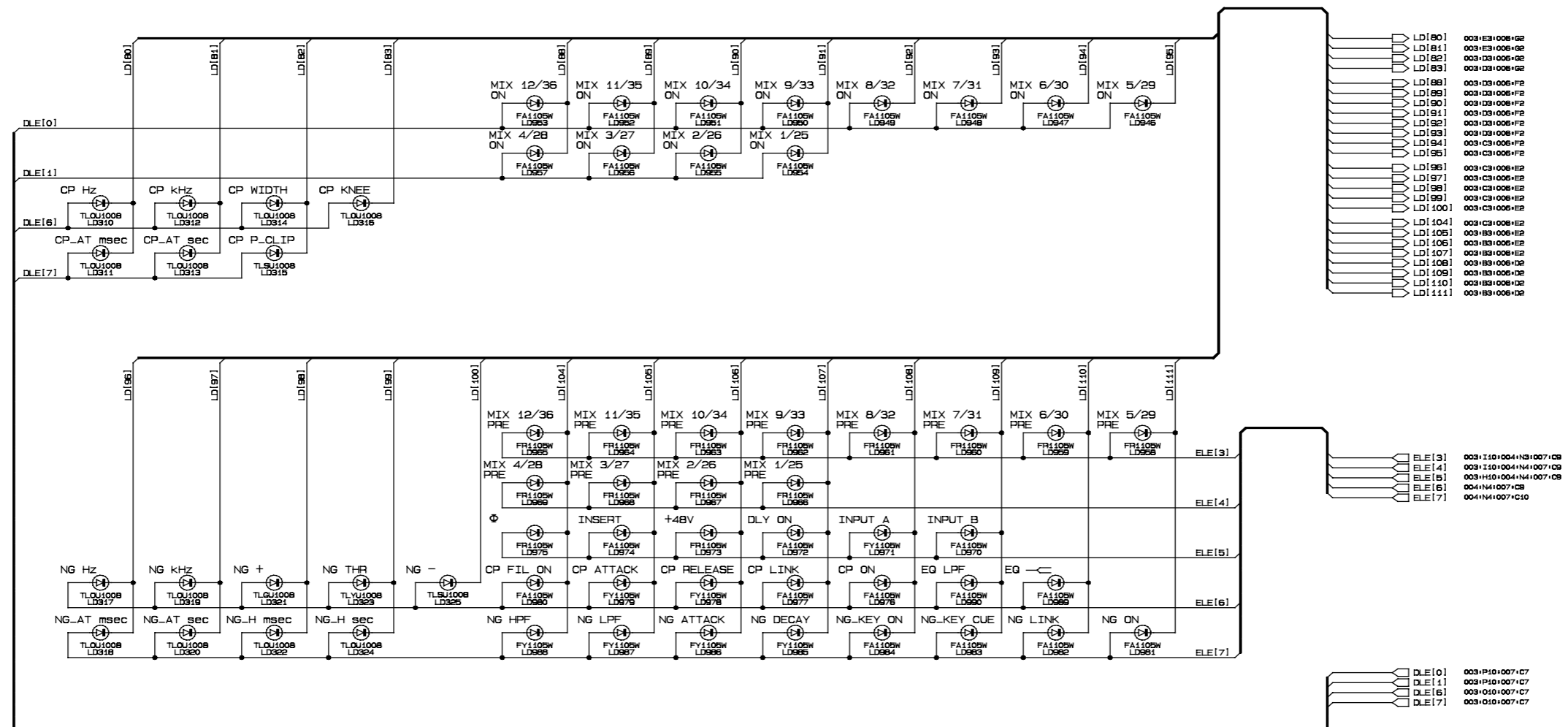
CS1D



- LD148] 005+12
- LD149] 005+12
- LD150] 005+12
- LD151] 005+12
- LD152] 005+12
- LD153] 005+12
- LD154] 005+12
- LD155] 005+12
- LD156] 005+12
- LD157] 005+12
- LD158] 005+12
- LD159] 005+12
- LD160] 005+12
- LD161] 005+12
- LD162] 005+12
- LD163] 005+12
- LD164] 005+12
- LD165] 005+12
- LD166] 005+12
- LD167] 005+12
- LD168] 005+12
- LD169] 005+12
- LD170] 005+12
- LD171] 005+12

- CLE[0] 007+CS
- CLE[1] 007+CS
- CLE[2] 007+CS
- CLE[3] 007+CS
- CLE[4] 007+CS
- CLE[5] 007+CS
- CLE[6] 007+CS
- CLE[7] 007+CS

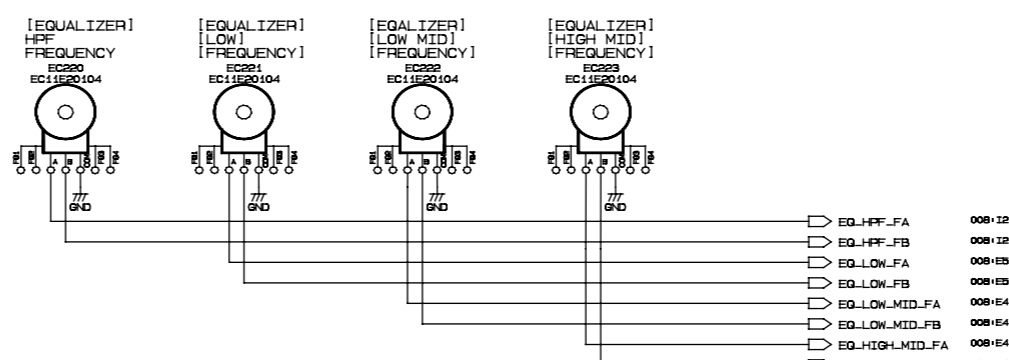
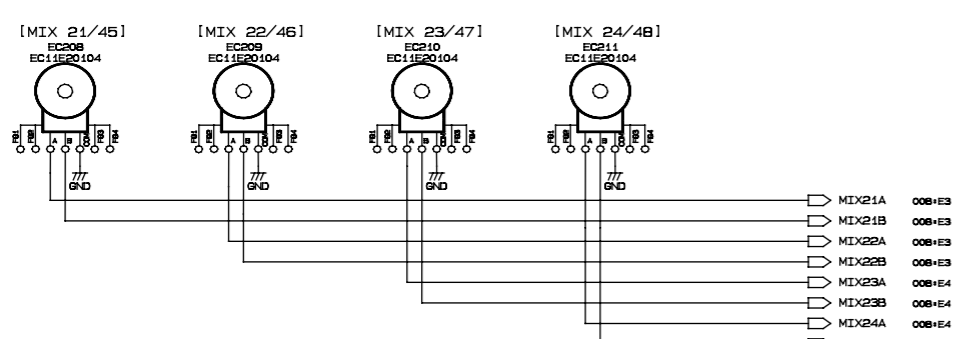
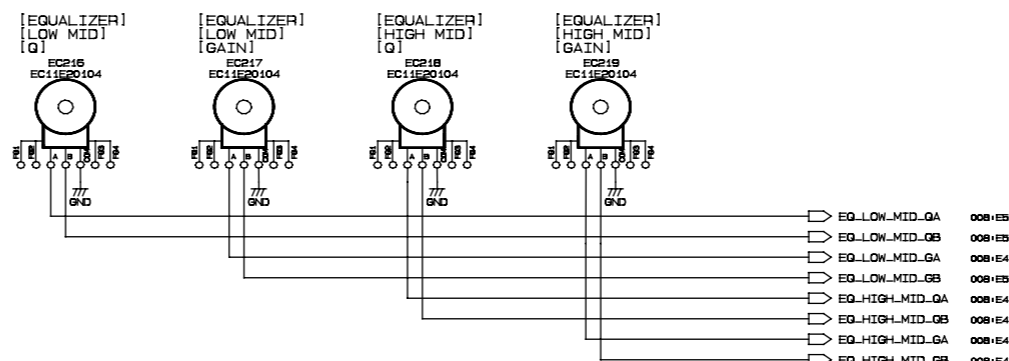
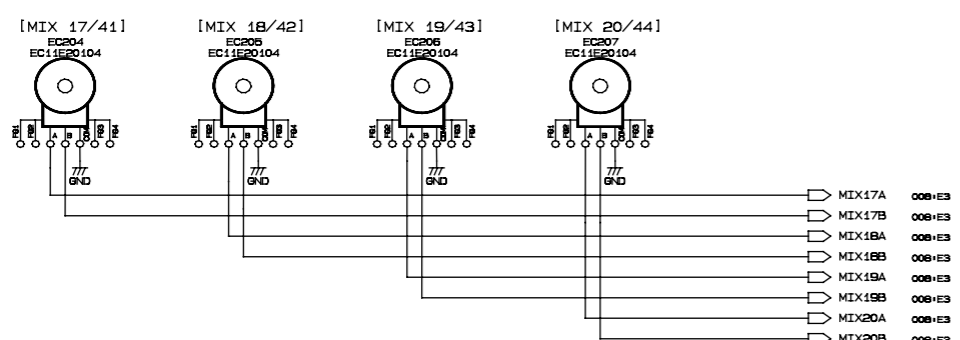
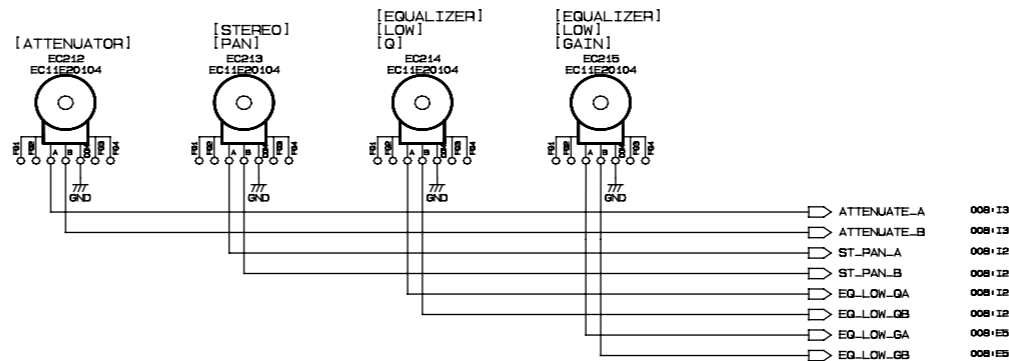
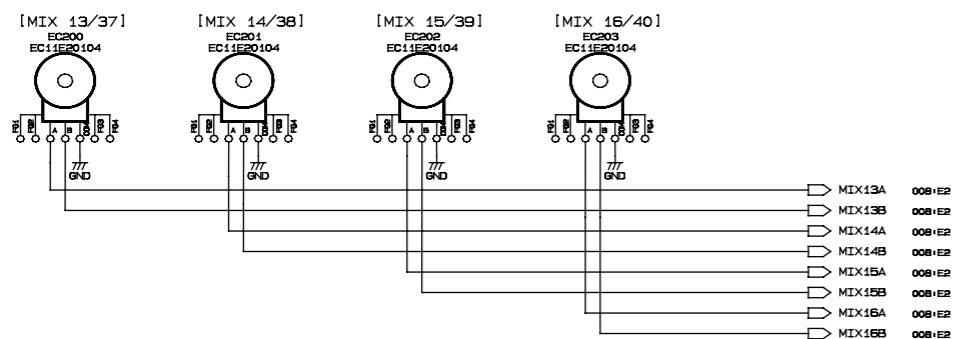
[COMPRESSOR], [NOISE GATE]
 [EQUALIZER][HIGH]



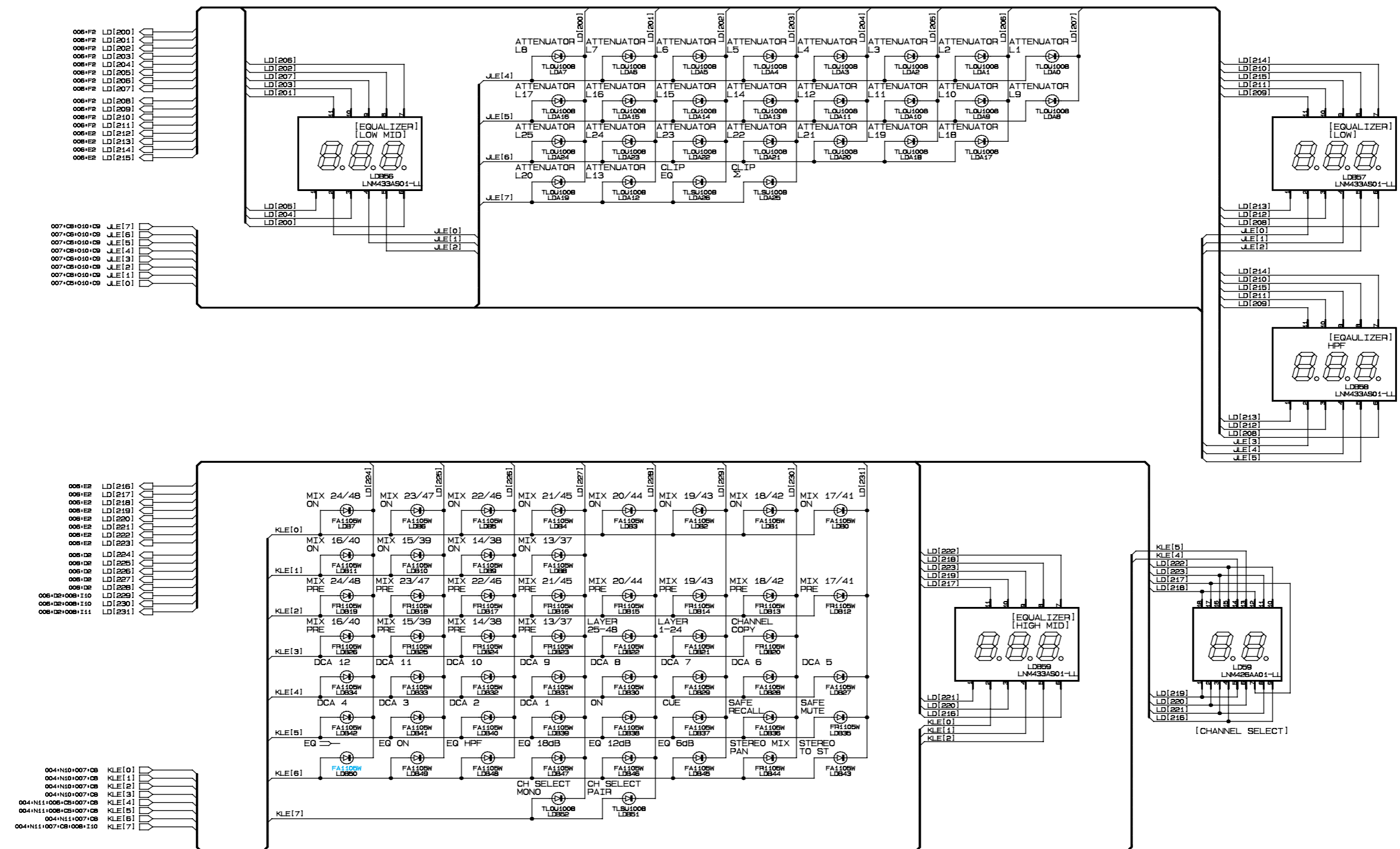
[MIX SEND][MIX 1/25]-[MIX 12/36]
 [+4BV/φ/INSERT], [DELAY], [INPUT]
 [COMPRESSOR], [NOISE GATE], [EQUALIZER][HIGH]

PNIS2 CIRCUIT DIAGRAM 002 (CS1D)

CS1D



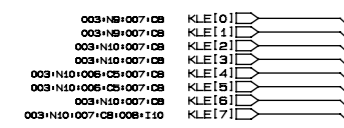
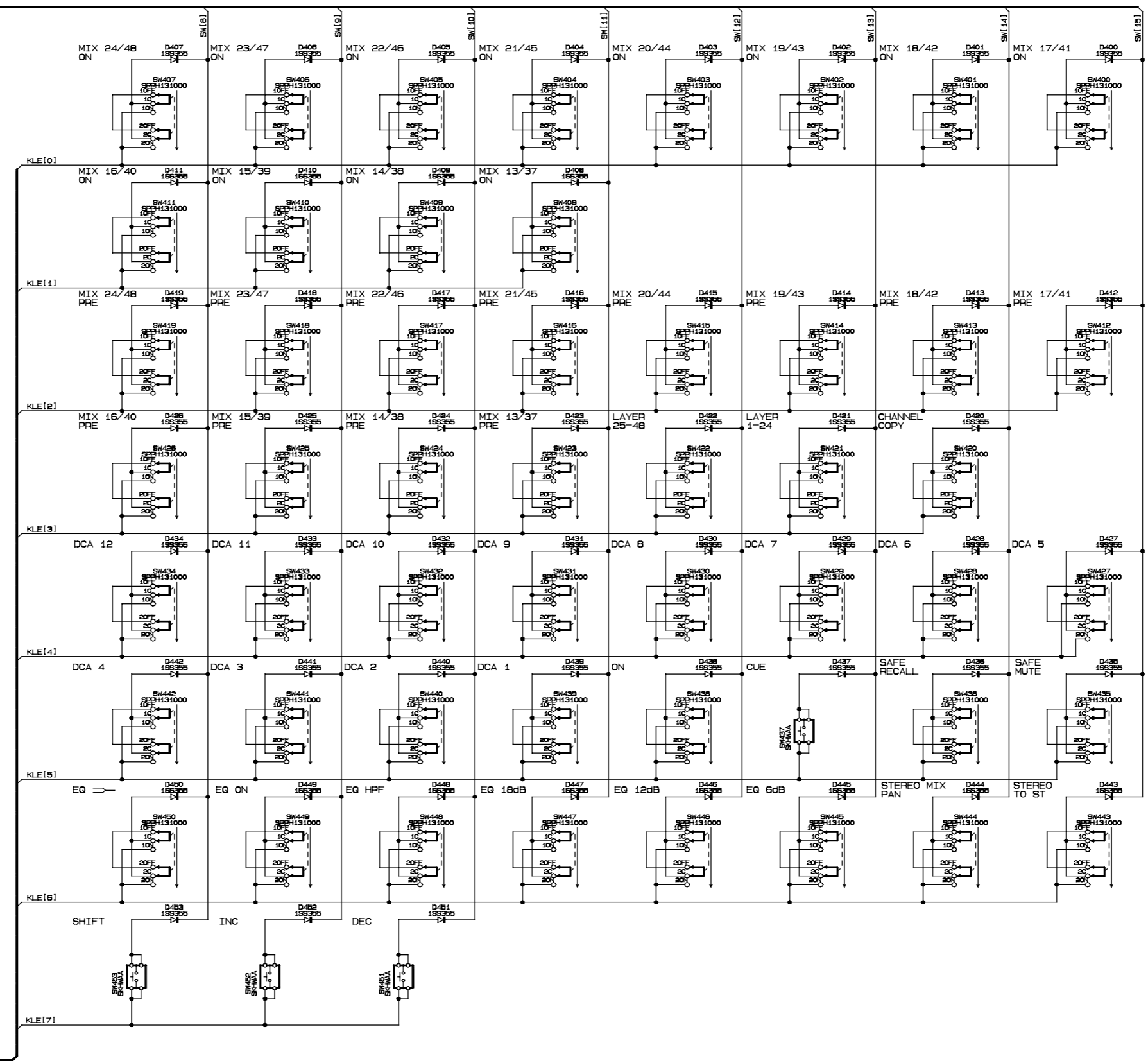
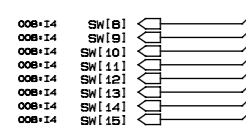
[MIX SEND][MIX 13/37]-[MIX 24/48]
 [EQUALIZER]
 [STEREO], [GAIN], [ATTENUATOR]



[EQUALIZER]
 [STEREO], [GAIN], [ATTENUATOR]
 [MIX SEND][LAYER], [CHANNEL SELECT]
 FADER SIDE
 [DCA], [SAFE]

PNIS2 CIRCUIT DIAGRAM 004 (CS1D)

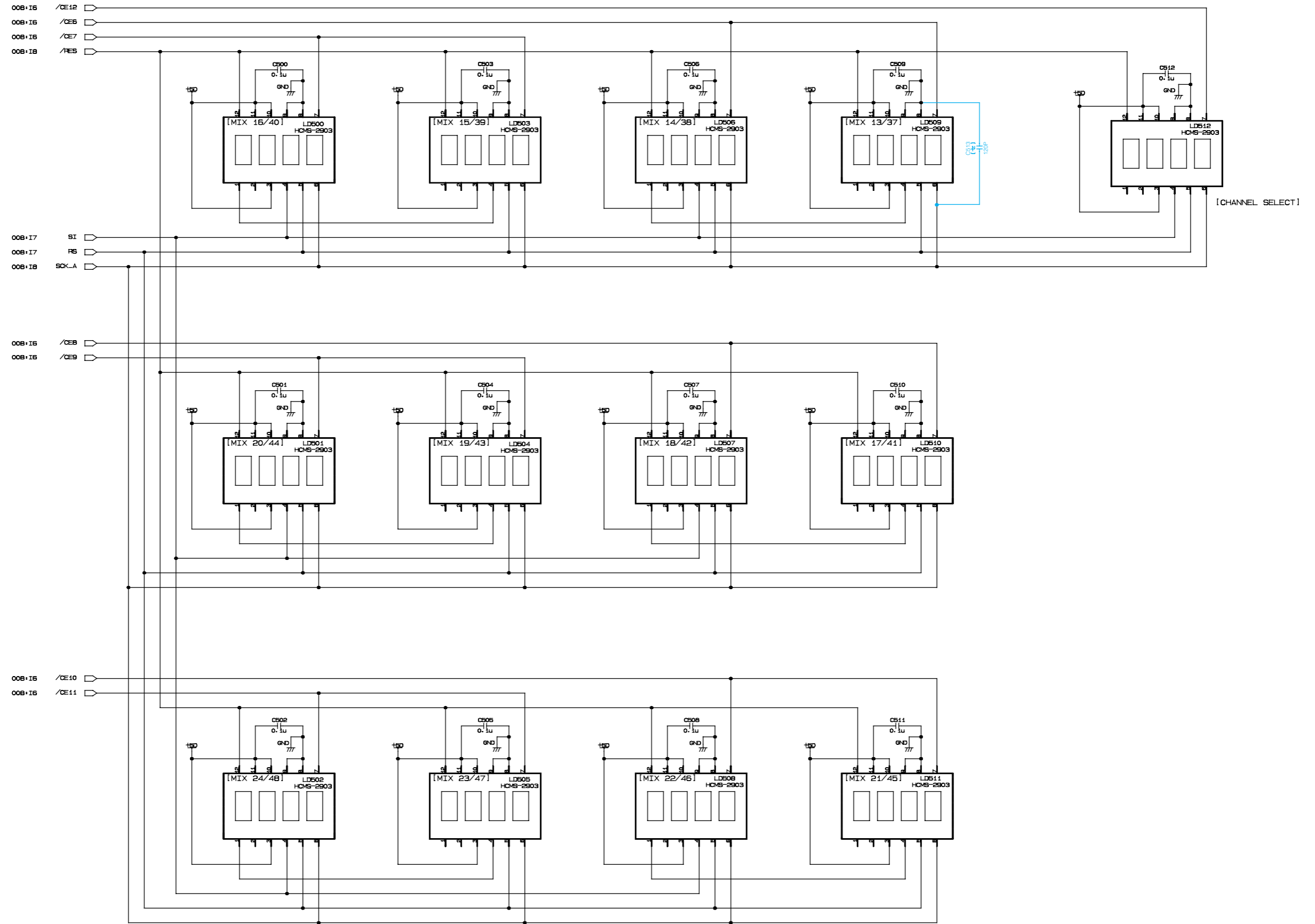
CS1D



[MIX SEND][MIX 13/37]-[MIX 24/4B]
 [EQUALIZER]
 [STEREO], [MIX SEND][LAYER], [CHANNEL SELECT]
 FADER SIDE
 [DCA], [SAFE]

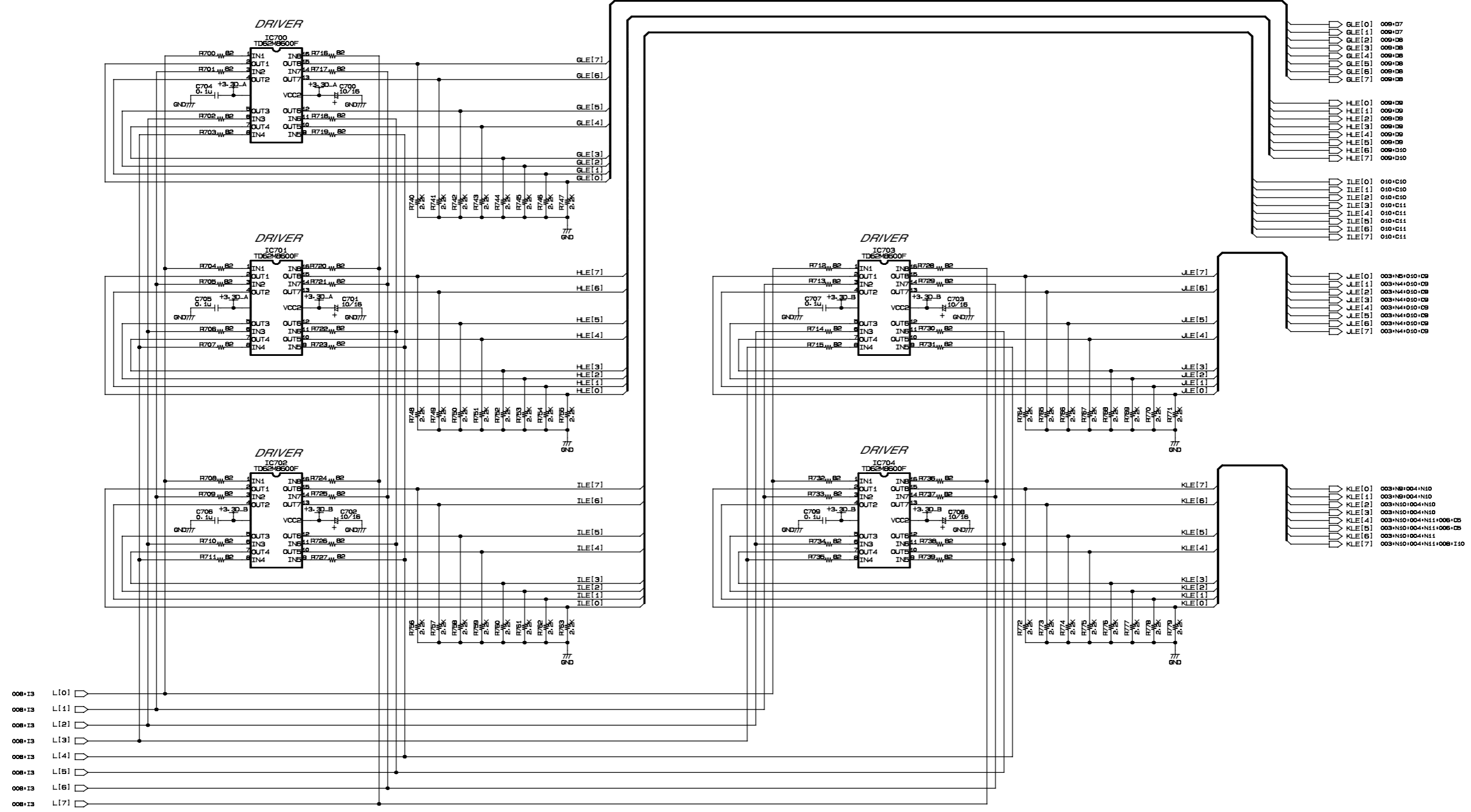
PNIS2 CIRCUIT DIAGRAM 005 (CS1D)

CS1D



(C): Ceramic Capacitor

[MIX SEND][MIX 13/37]-[MIX 24/48]
[CHANNEL SELECT]

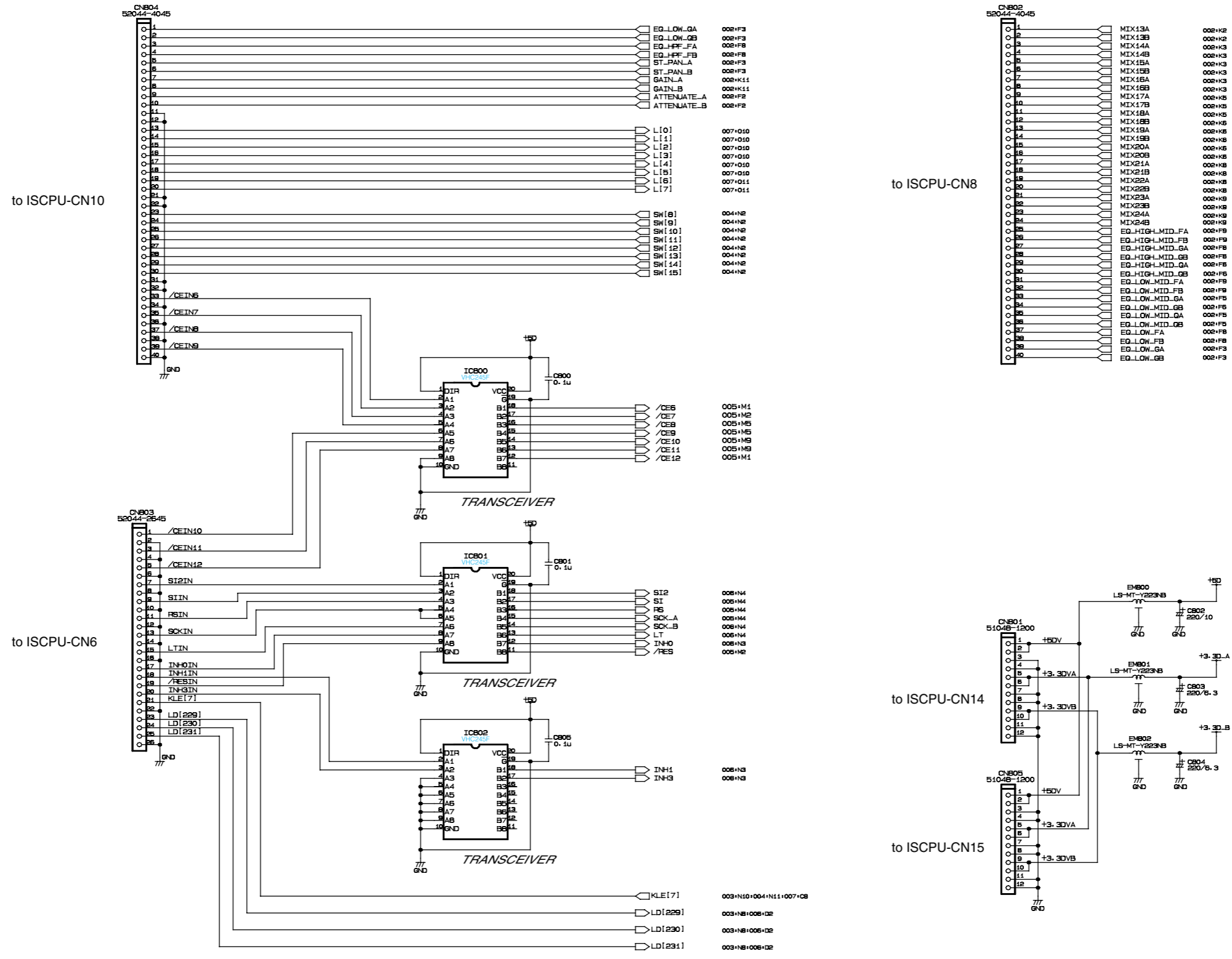


- 008+13 L[0]
- 008+13 L[1]
- 008+13 L[2]
- 008+13 L[3]
- 008+13 L[4]
- 008+13 L[5]
- 008+13 L[6]
- 008+13 L[7]

LED/SW SOURCE DRIVER

PNIS2 CIRCUIT DIAGRAM 008 (CS1D)

CS1D



to ISCPU-CN8

to ISCPU-CN10

to ISCPU-CN6

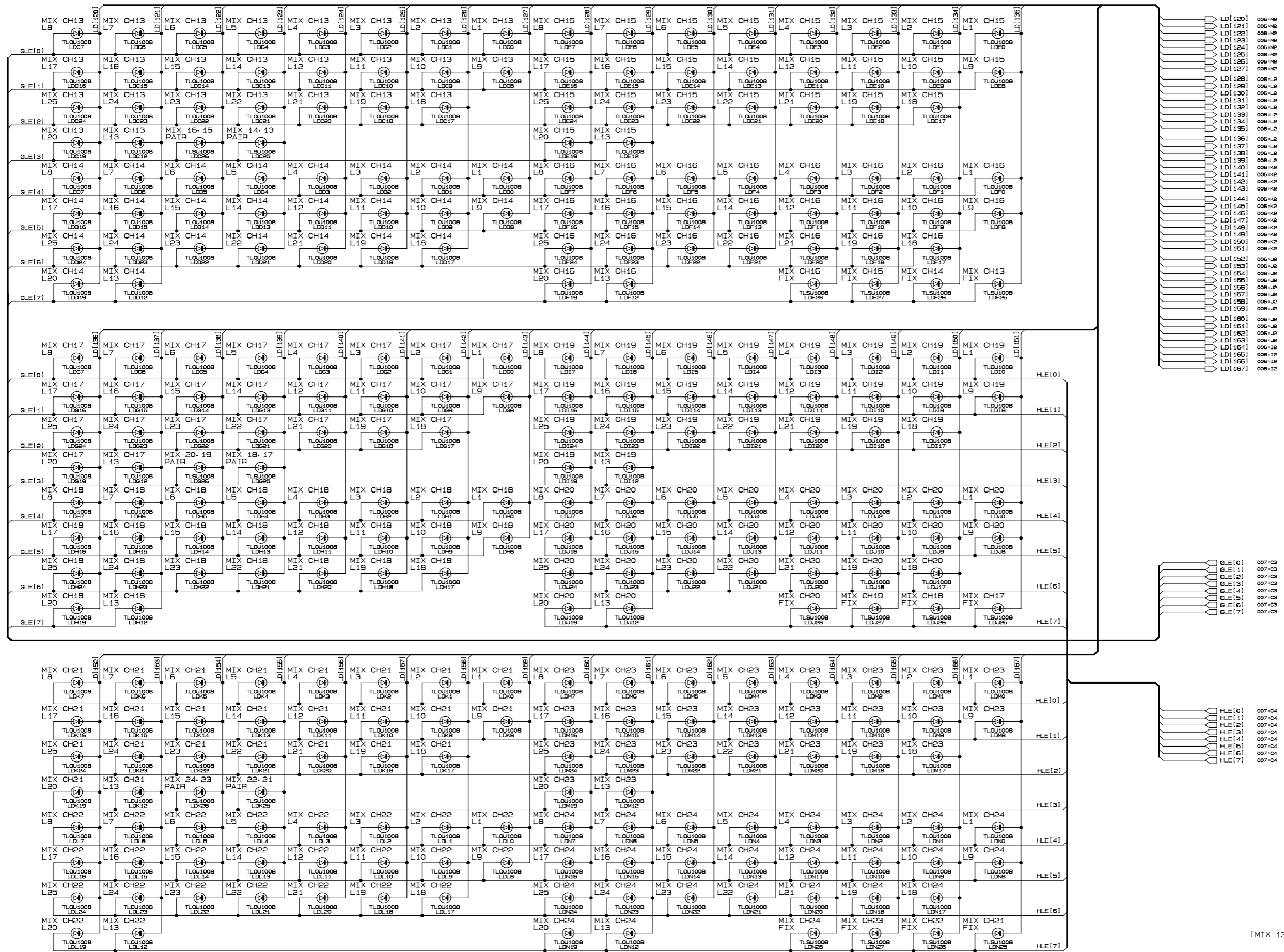
to ISCPU-CN14

to ISCPU-CN15

BUFFER & CONNECTOR

PNIS2 CIRCUIT DIAGRAM 009 (CS1D)

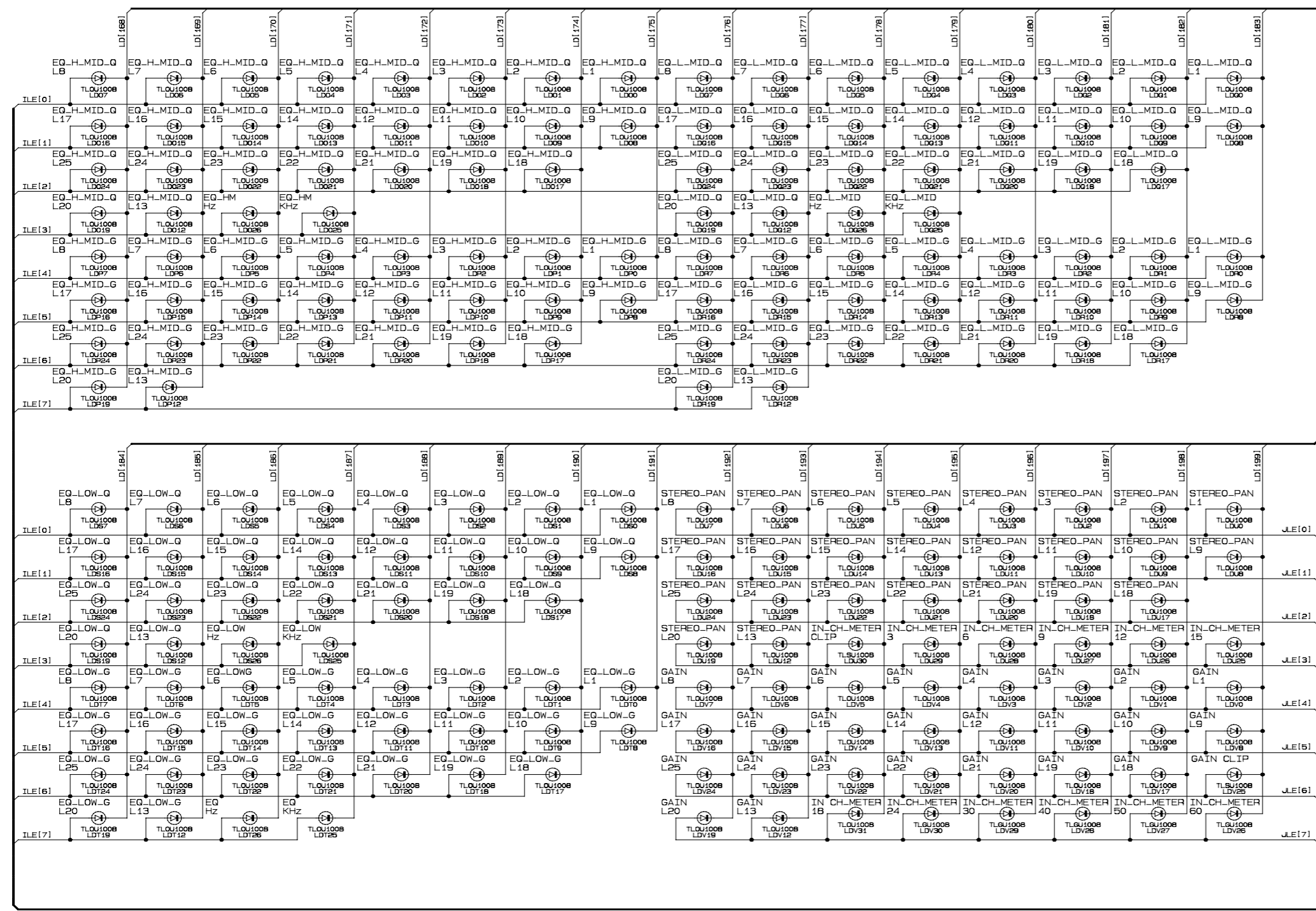
CS1D



[MIX 13/37]-[MIX 24/48]

PNIS2 CIRCUIT DIAGRAM 010 (CS1D)

CS1D



- LD[168] 006+12
- LD[169] 006+12
- LD[170] 006+12
- LD[171] 006+12
- LD[172] 006+12
- LD[173] 006+12
- LD[174] 006+12
- LD[175] 006+12
- LD[176] 006+12
- LD[177] 006+12
- LD[178] 006+12
- LD[179] 006+12
- LD[180] 006+12
- LD[181] 006+12
- LD[182] 006+12
- LD[183] 006+12
- LD[184] 006+12
- LD[185] 006+12
- LD[186] 006+12
- LD[187] 006+12
- LD[188] 006+02
- LD[189] 006+02
- LD[190] 006+02
- LD[191] 006+02
- LD[192] 006+02
- LD[193] 006+02
- LD[194] 006+02
- LD[195] 006+02
- LD[196] 006+02
- LD[197] 006+02
- LD[198] 006+02
- LD[199] 006+02

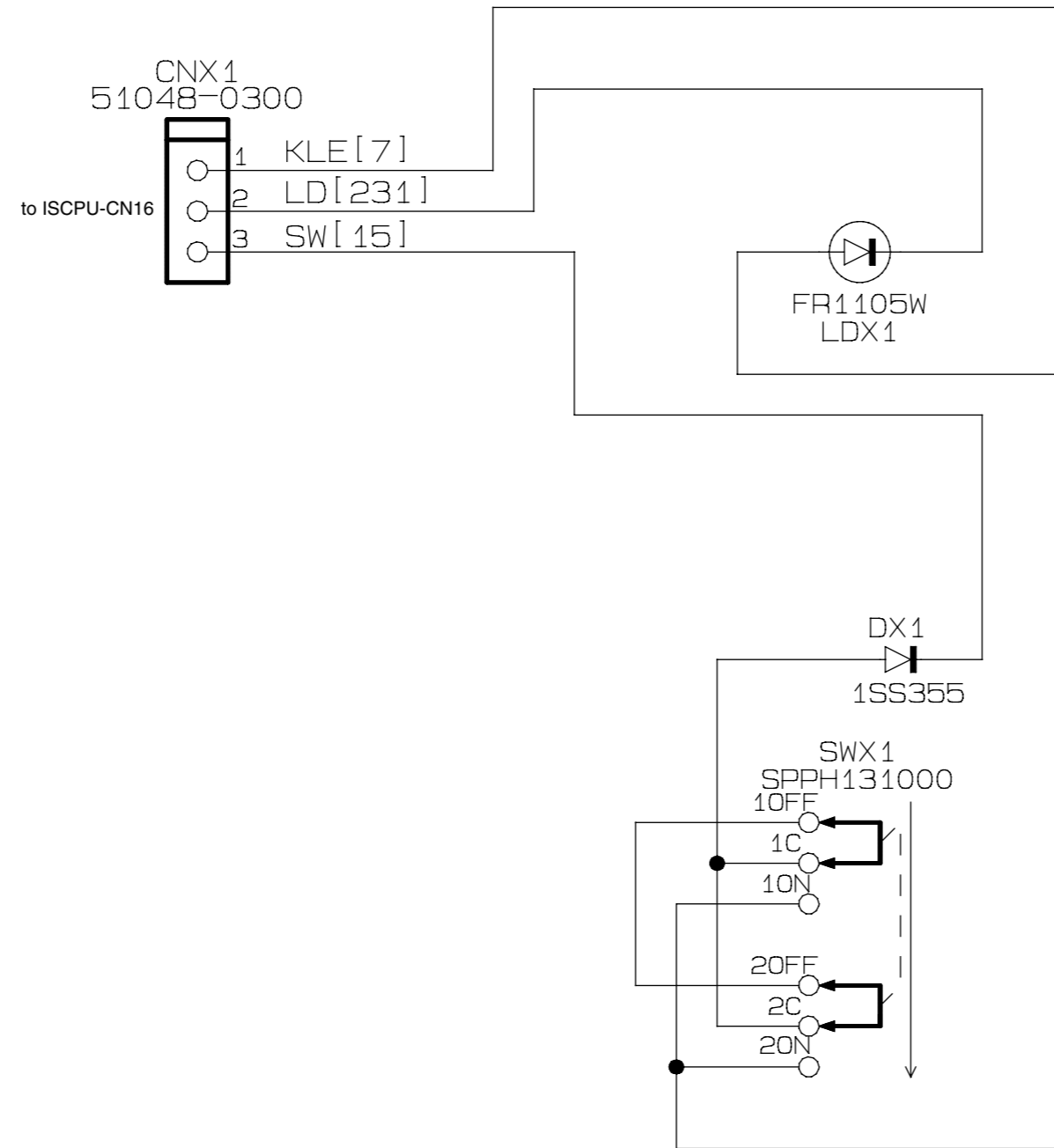
- JLE[0] 003+H5+007+05
- JLE[1] 003+H4+007+06
- JLE[2] 003+H4+007+05
- JLE[3] 003+H4+007+05
- JLE[4] 003+H4+007+05
- JLE[5] 003+H4+007+05
- JLE[6] 003+H4+007+05
- JLE[7] 003+H4+007+05

- ILE[0] 007+04
- ILE[1] 007+05
- ILE[2] 007+05
- ILE[3] 007+05
- ILE[4] 007+05
- ILE[5] 007+05
- ILE[6] 007+05
- ILE[7] 007+05

[EQUALIZER]
 [STEREO], [GAIN]
 INPUT CH METER(12points)

PNIS3 CIRCUIT DIAGRAM (CS1D)

CS1D



[FLIP]

[MODULE FLIP]

1

2

3

4

5

6

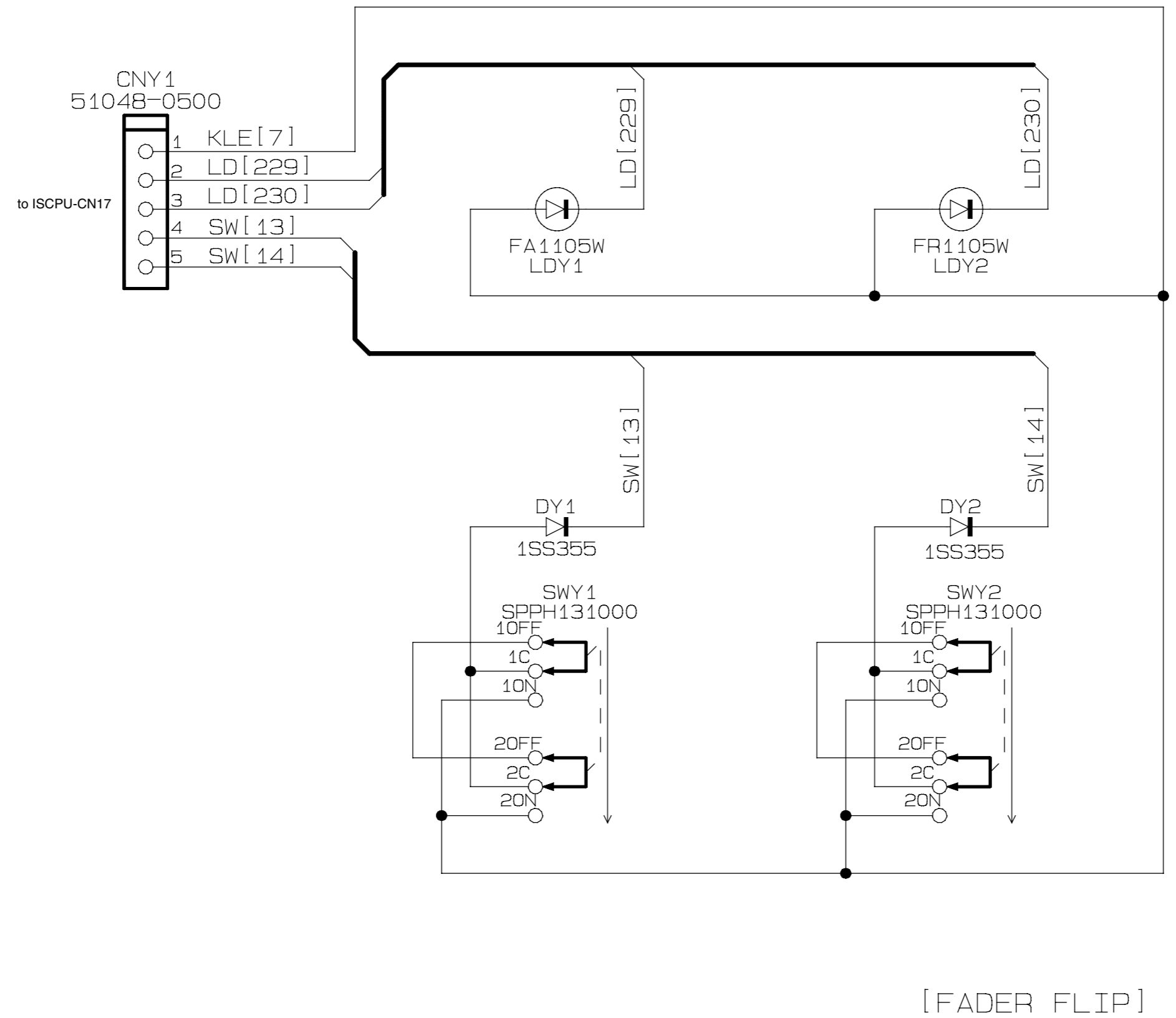
PNIS4 CIRCUIT DIAGRAM (CS1D)

CS1D

1

[CH]

[MIX]



2

3

4

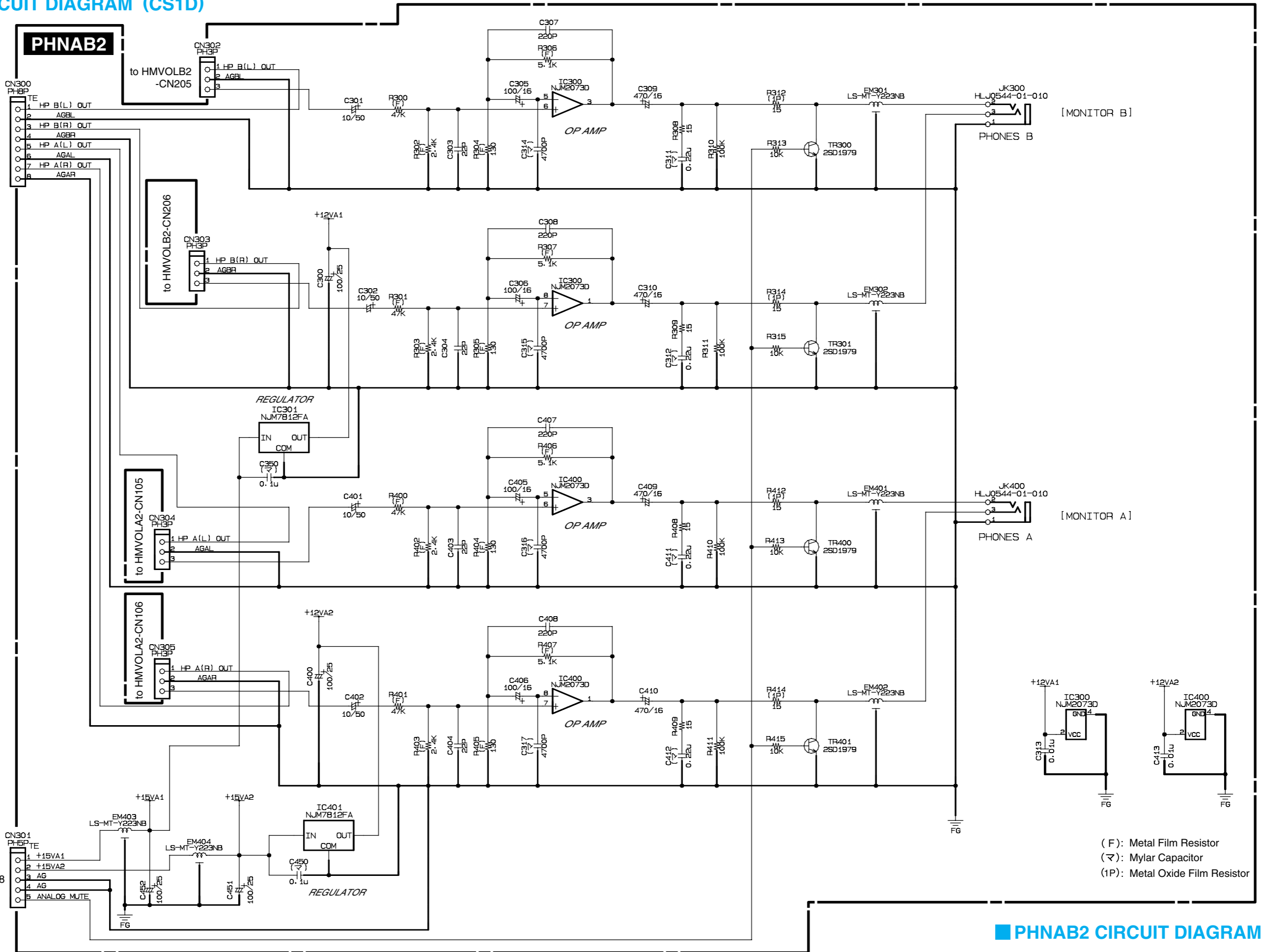
5

6

PHNAB2 CIRCUIT DIAGRAM (CS1D)

CS1D

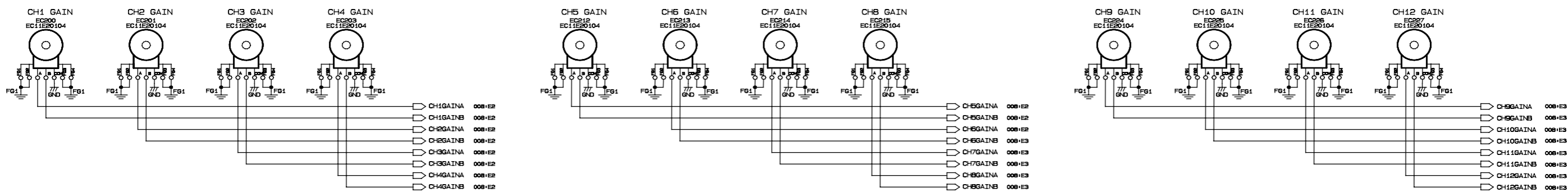
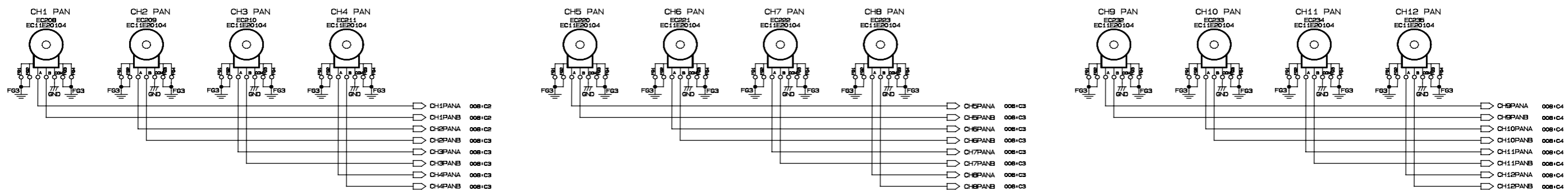
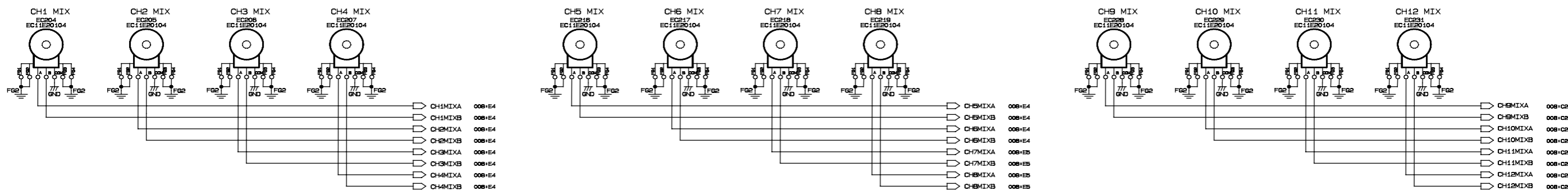
to ADA2-CN104, 105, 300



(F): Metal Film Resistor
 (M): Mylar Capacitor
 (1P): Metal Oxide Film Resistor

PN1 CIRCUIT DIAGRAM 002 (CS1D)

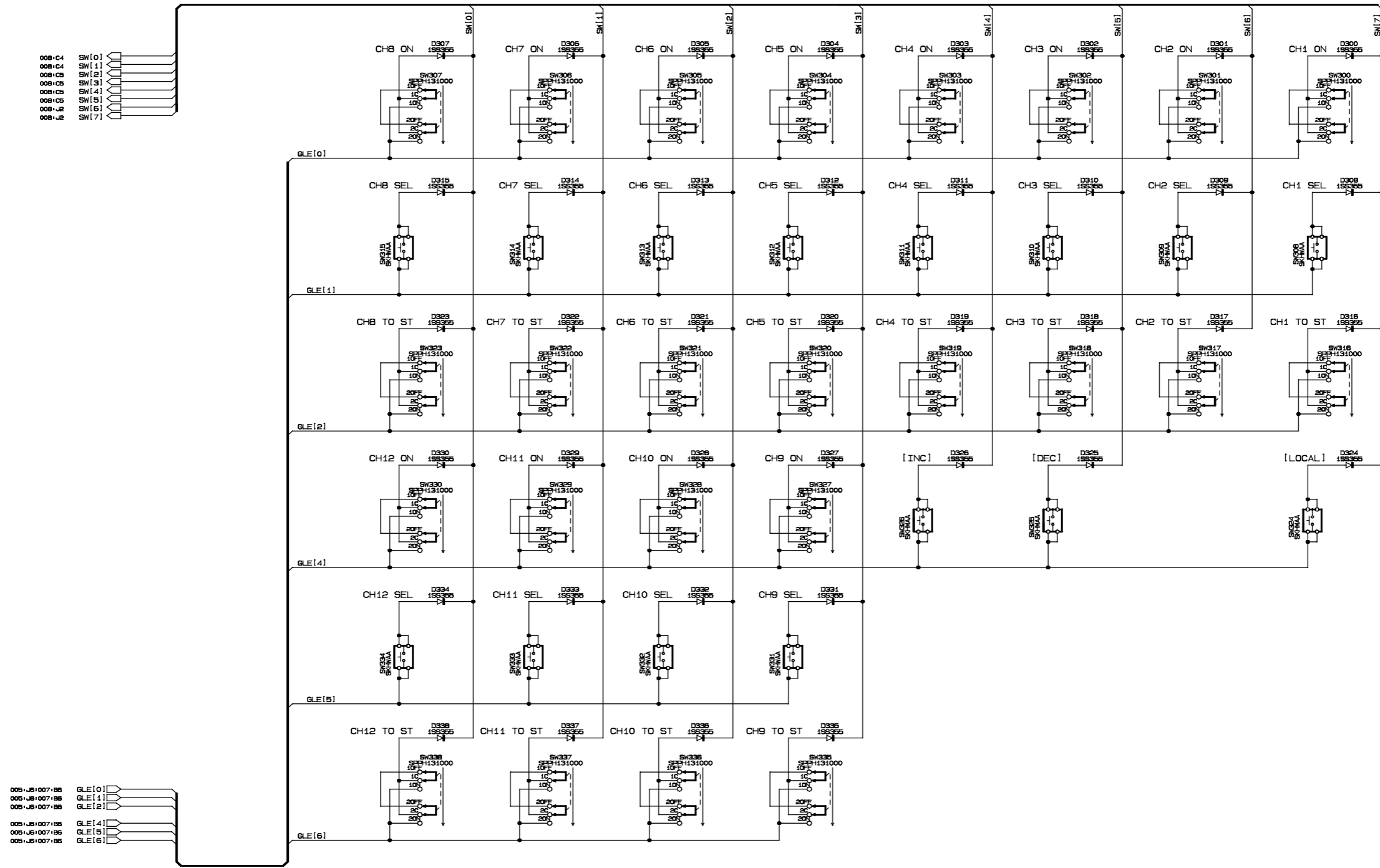
CS1D



[MIX], [PAN], [GAIN] [1/49]-[12/60]

PN1 CIRCUIT DIAGRAM 003 (CS1D)

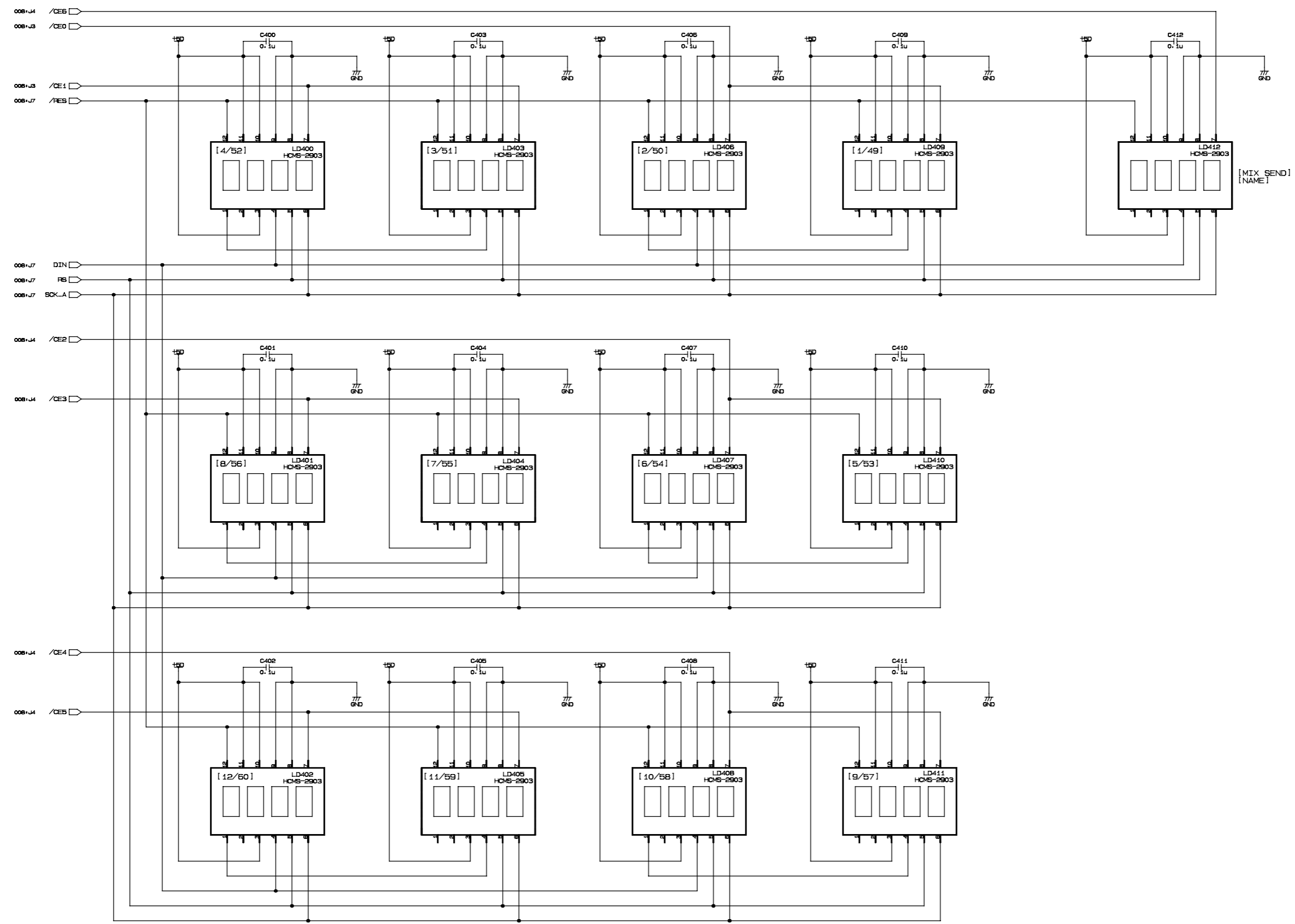
CS1D



[ON], [SEL], [TO ST] [1/49]-[12/60]
[MIX SEND]

PN1 CIRCUIT DIAGRAM 004 (CS1D)

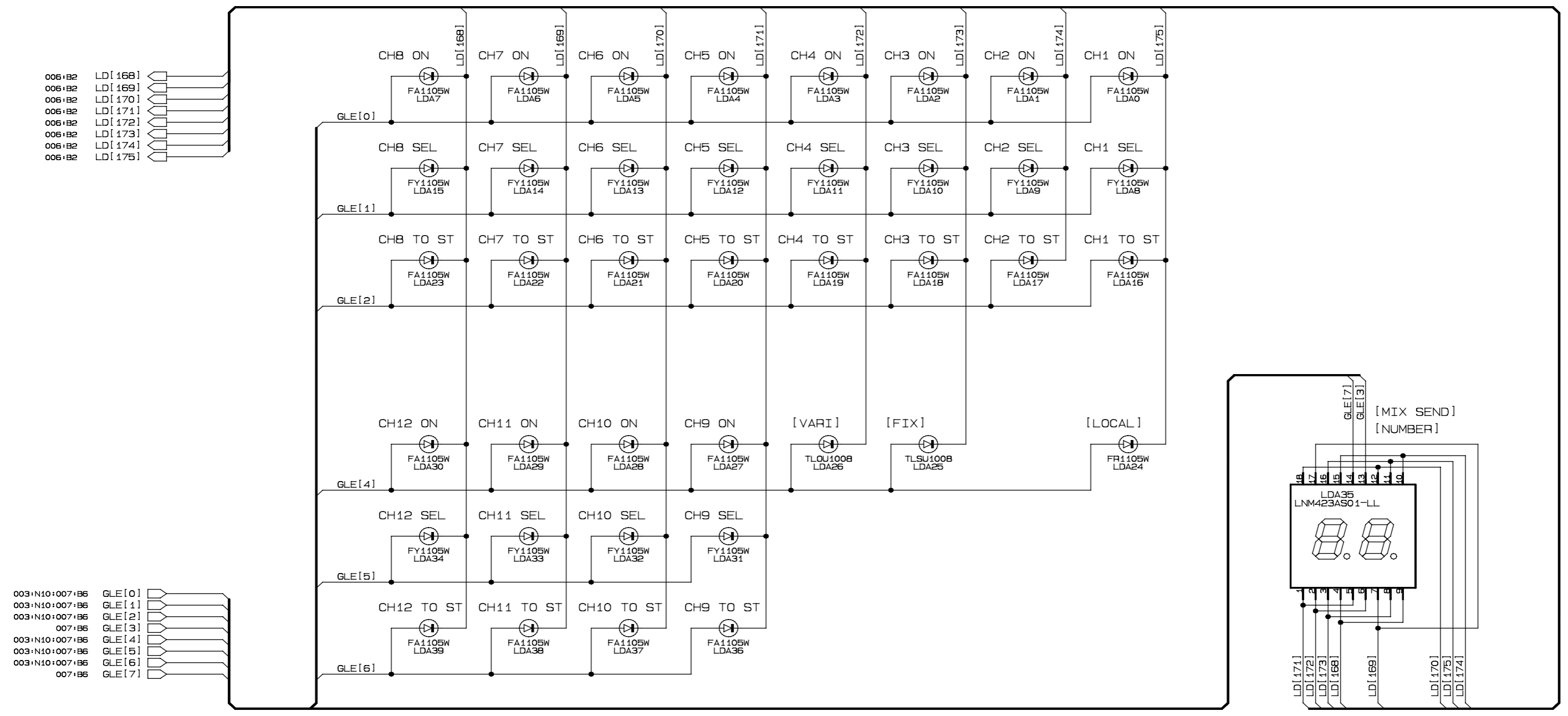
CS1D



INPUT CH [1/49]-[12/60]
[MIX_SEND]

■ PNI1 CIRCUIT DIAGRAM 005 (CS1D)

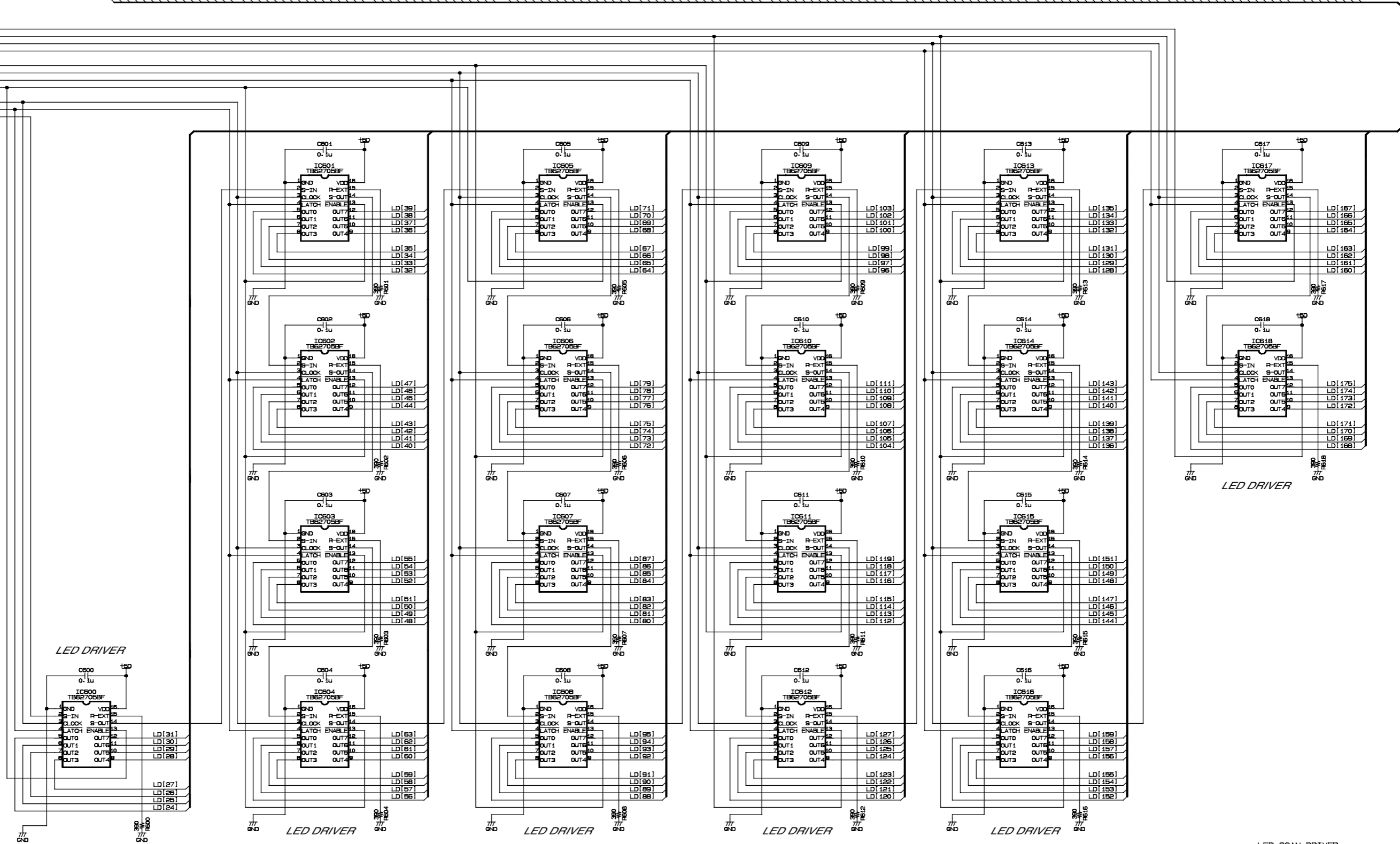
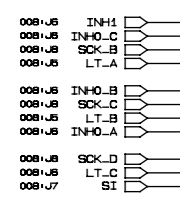
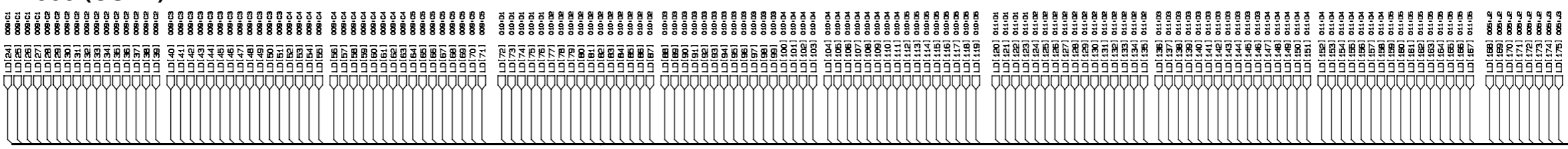
CS1D



[ON], [SEL], [TO ST] [1/49]-[12/60]
[MIX SEND]

PN1 CIRCUIT DIAGRAM 006 (CS1D)

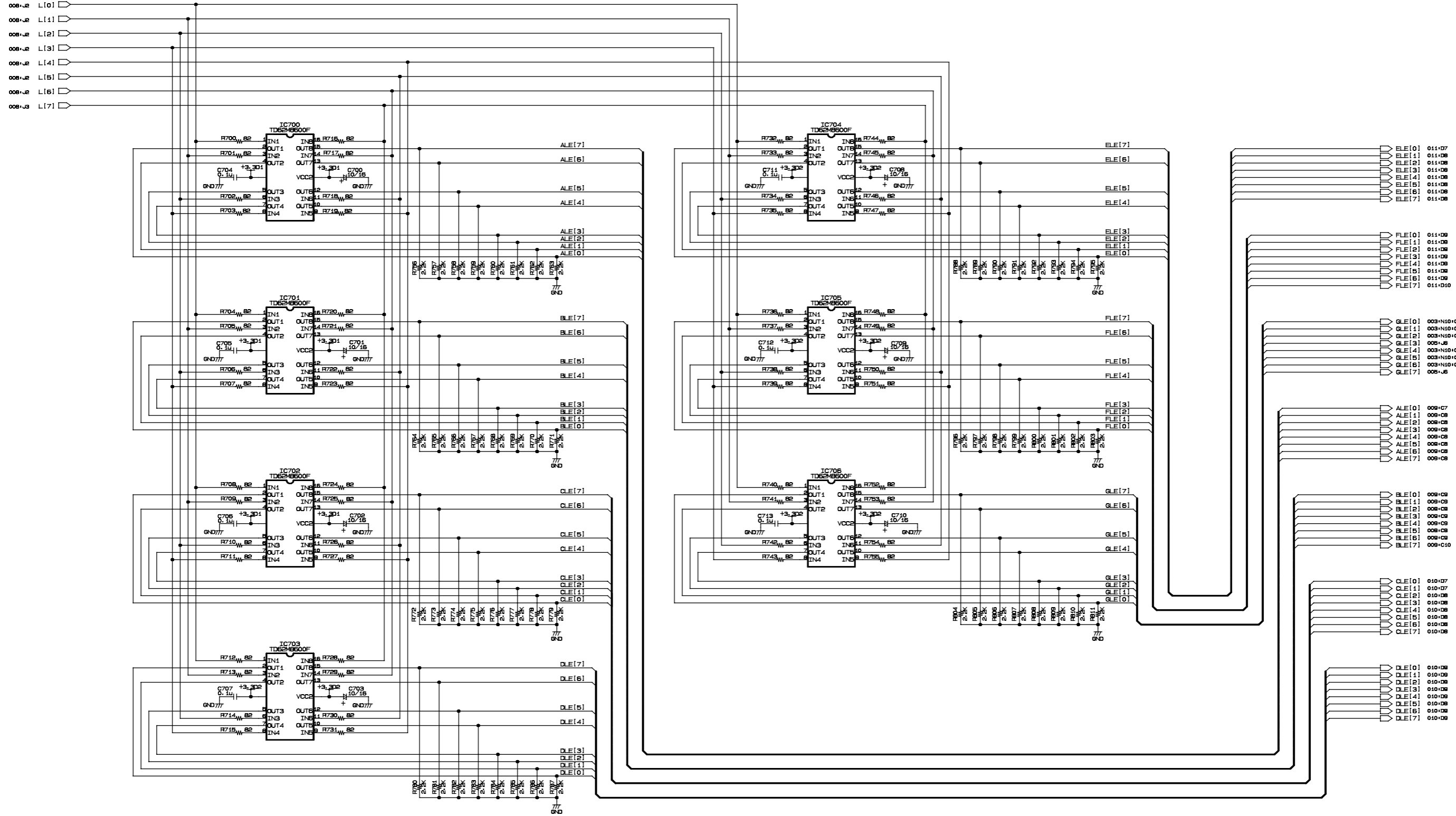
CS1D



LED SCAN DRIVER

PN1 CIRCUIT DIAGRAM 007 (CS1D)

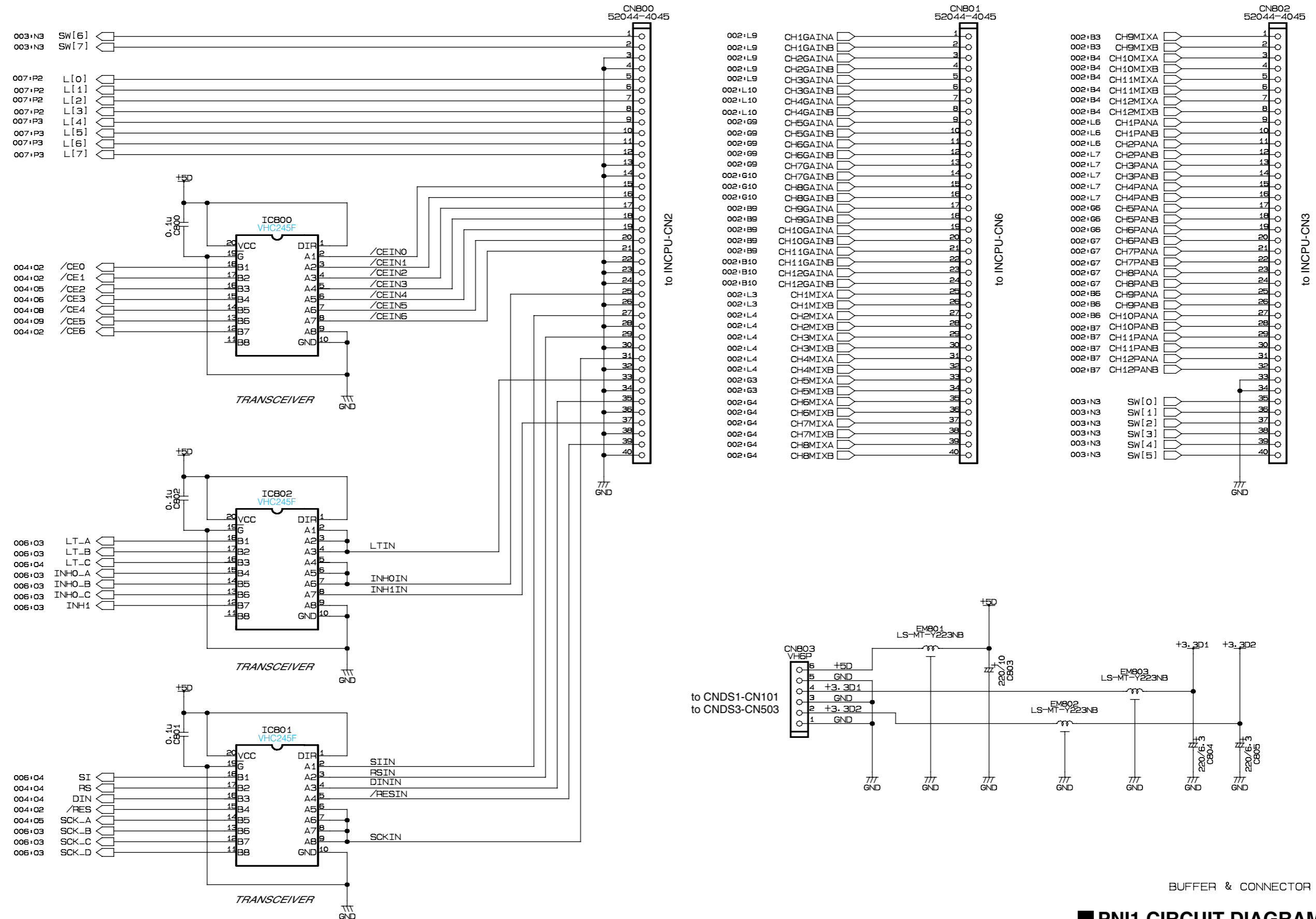
CS1D



LED/SW SOURCE DRIVER

PN1 CIRCUIT DIAGRAM 008 (CS1D)

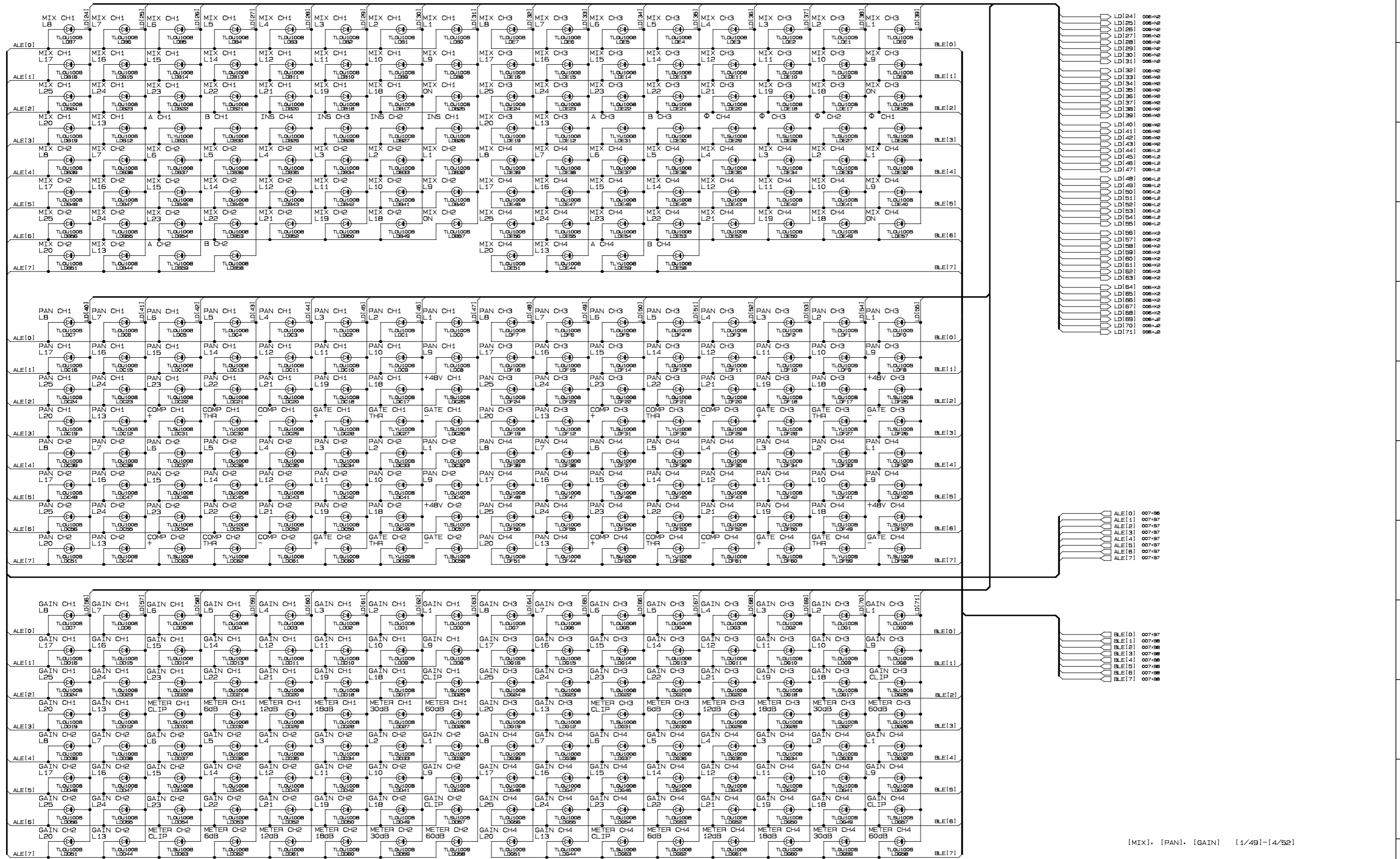
CS1D



PN1 CIRCUIT DIAGRAM 008 (CS1D)

PN1 CIRCUIT DIAGRAM 009 (CS1D)

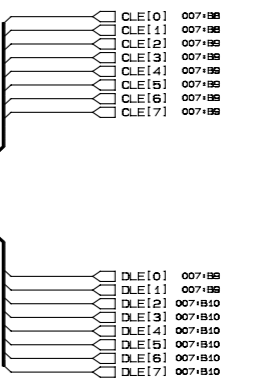
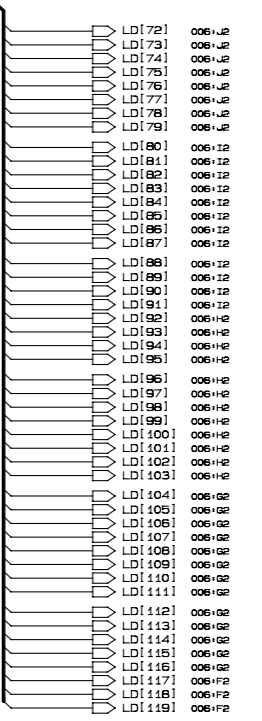
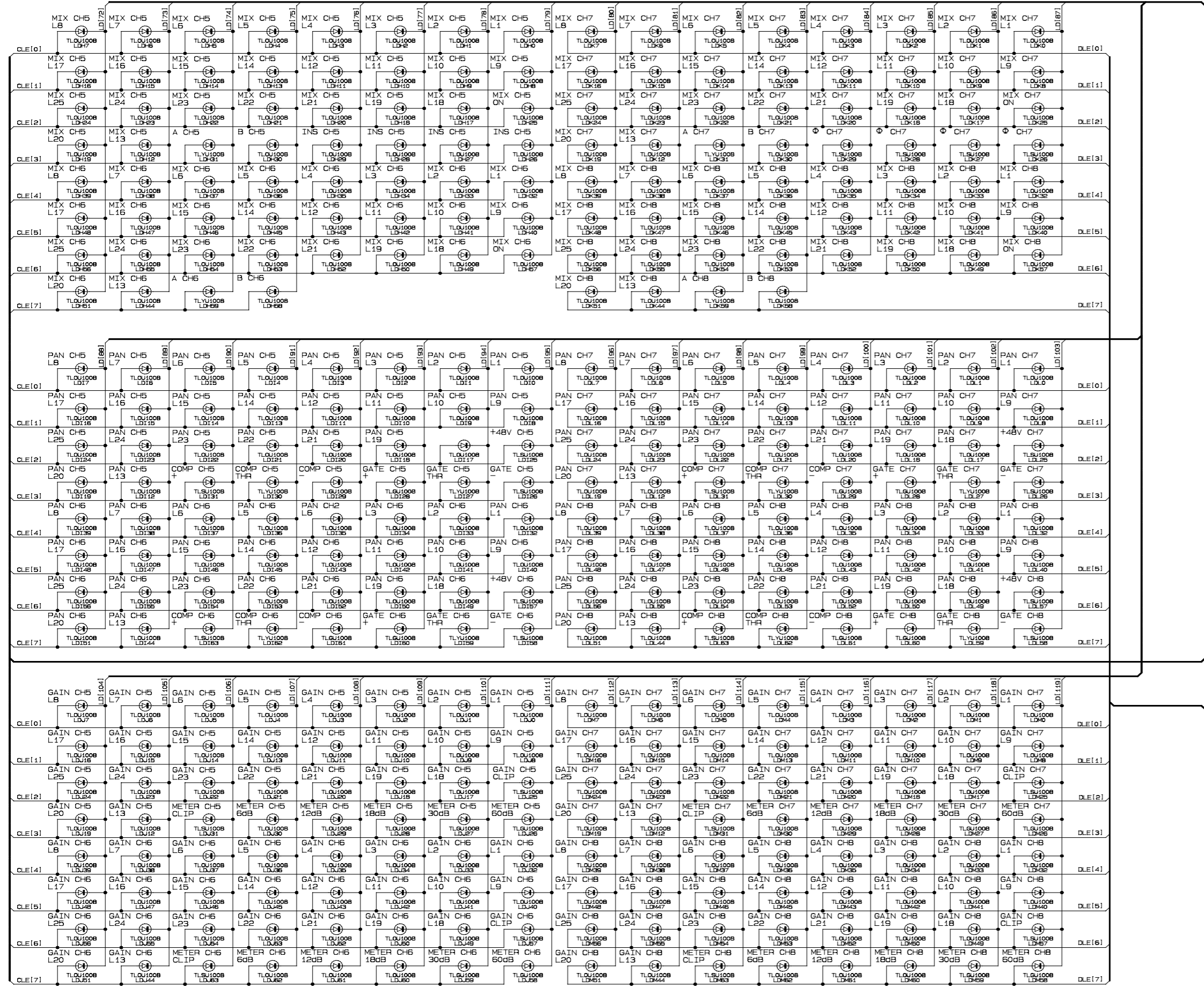
CS1D



PN1 CIRCUIT DIAGRAM 010 (CS1D)

CS1D

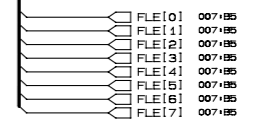
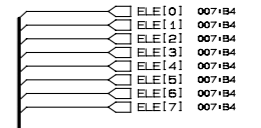
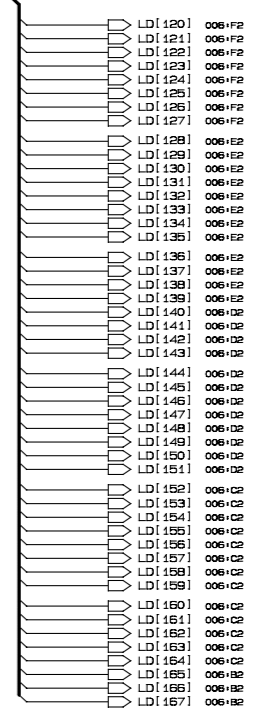
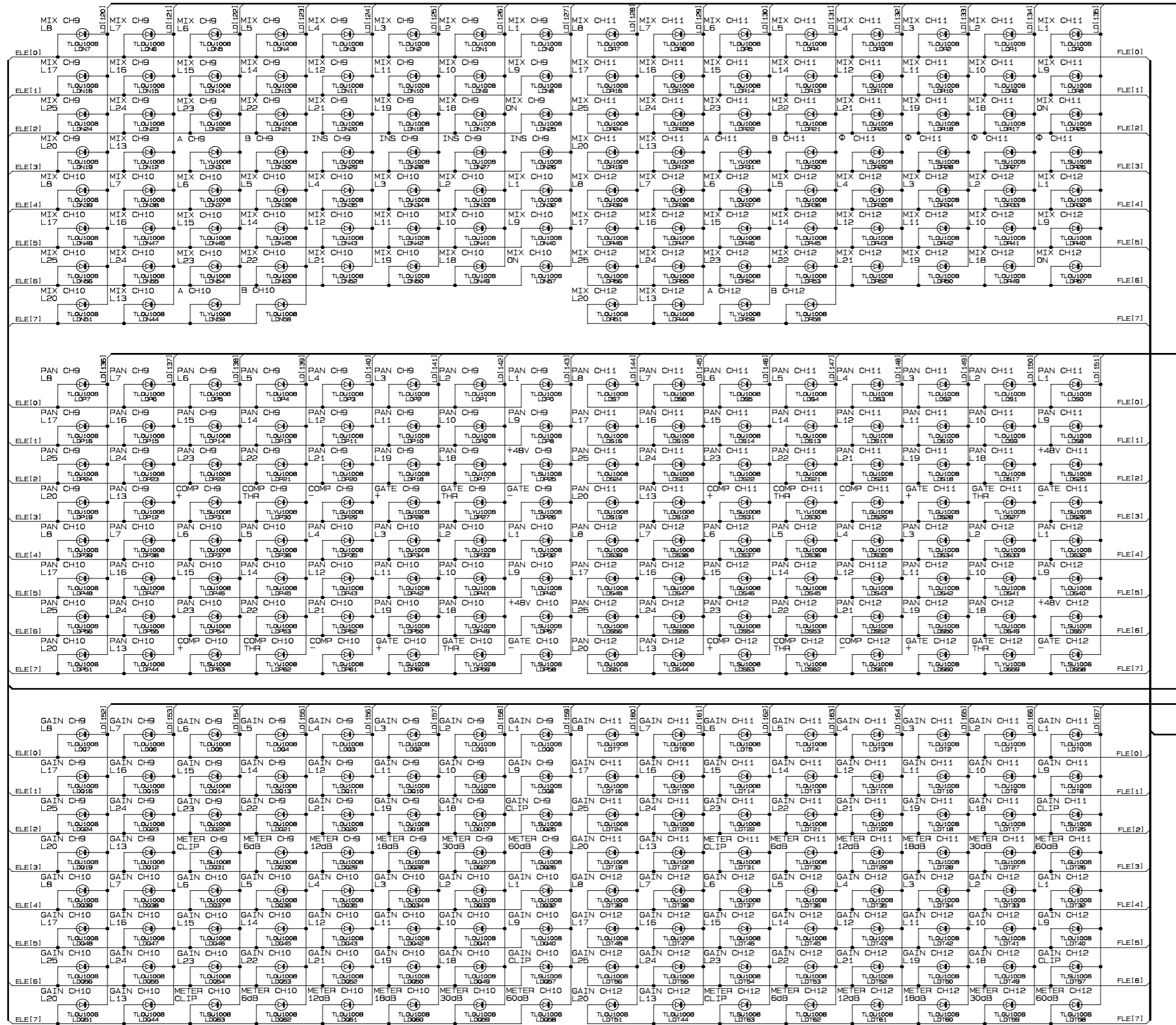
1
2
3
4
5
6
7
8
9
10
11
12



[MIX], [PAN], [GAIN] [5/53]-[8/56]

PN1 CIRCUIT DIAGRAM 011 (CS1D)

CS1D



[MIX], [PAN], [GAIN] [9/57]-[12/60]

INCPU CIRCUIT DIAGRAM 002 (CS1D)

CS1D

003:0B AN[0]
 003:0B AN[1]
 003:0B AN[2]
 003:0B AN[3]
 003:C7 AN[4]
 003:C7 AN[5]

SH7042A(IC2) MODE SETUP

	R14	R15	Internal ROM
MODE1	Short	Short	Invalid
MODE2	Open	Open	Valid

NOTE) Factory setup : MODE2

IC2 SH7042A CPU

FLASH ROM 4M IC1

D-FF IC3 LV138A

DECODER IC4 LV138A

DECODER IC5 LV138A

005:0B AA[11]
 005:0B AA[12]
 005:0B AA[13]
 005:0B AA[14]

003:0B+004:02+005:0B /RES

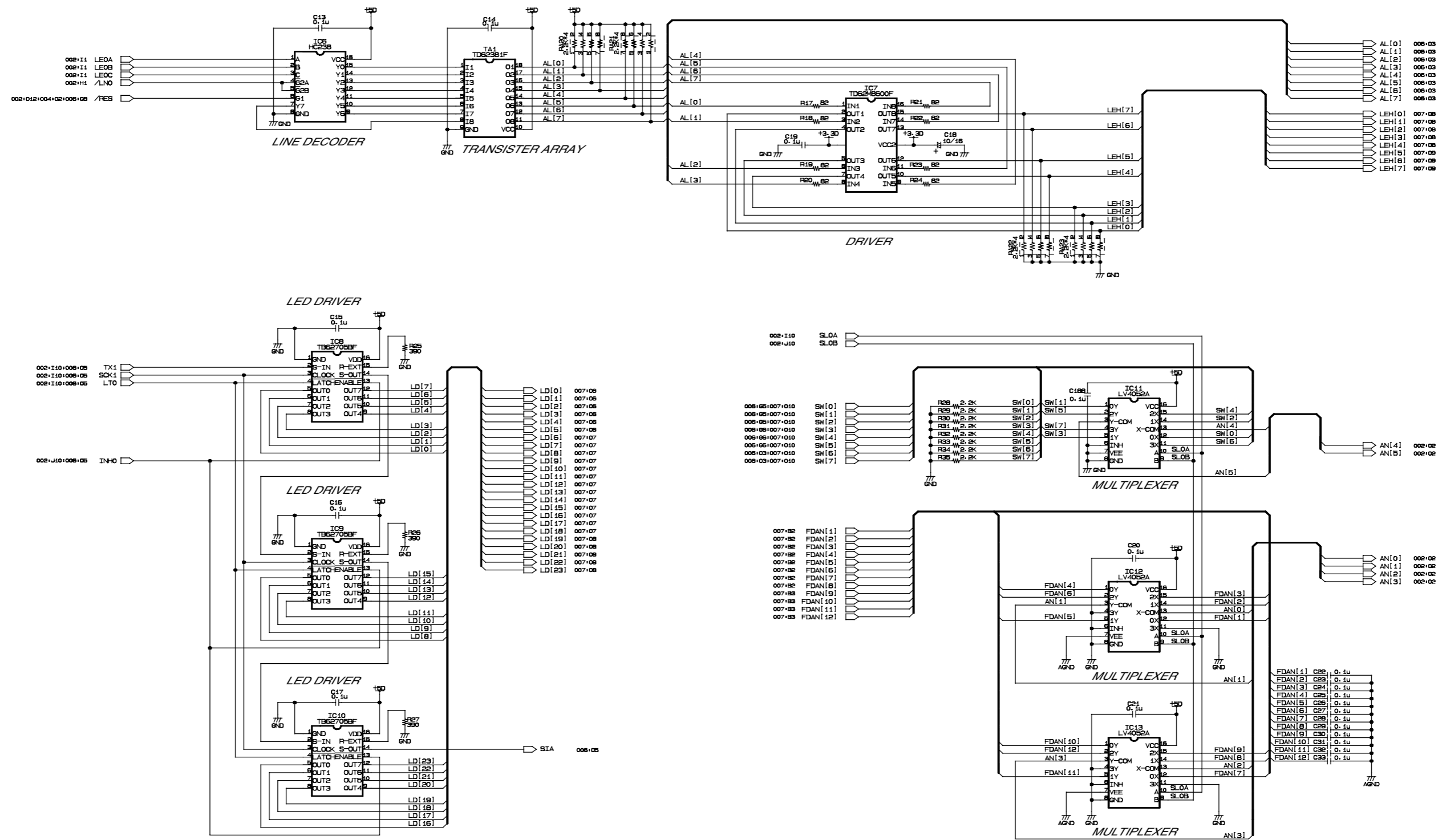
DA[0] 004:03+005:0B
 DA[1] 004:03+005:0B
 DA[2] 004:03+005:0B
 DA[3] 004:03+005:0B
 DA[4] 004:03+005:0B
 DA[5] 004:03+005:0B
 DA[6] 004:03+005:0B
 DA[7] 004:03+005:0B

/CE[6] 006:04
 /CE[5] 006:04
 /CE[4] 006:04
 /CE[3] 006:04
 /CE[2] 006:04
 /CE[1] 006:04

/FDP[0] 004:04
 /FDP[1] 004:04
 /FDP[2] 004:04
 /FDP[3] 004:04

/REC[0] 006:0B
 /REC[1] 006:0B
 /REC[2] 006:0B

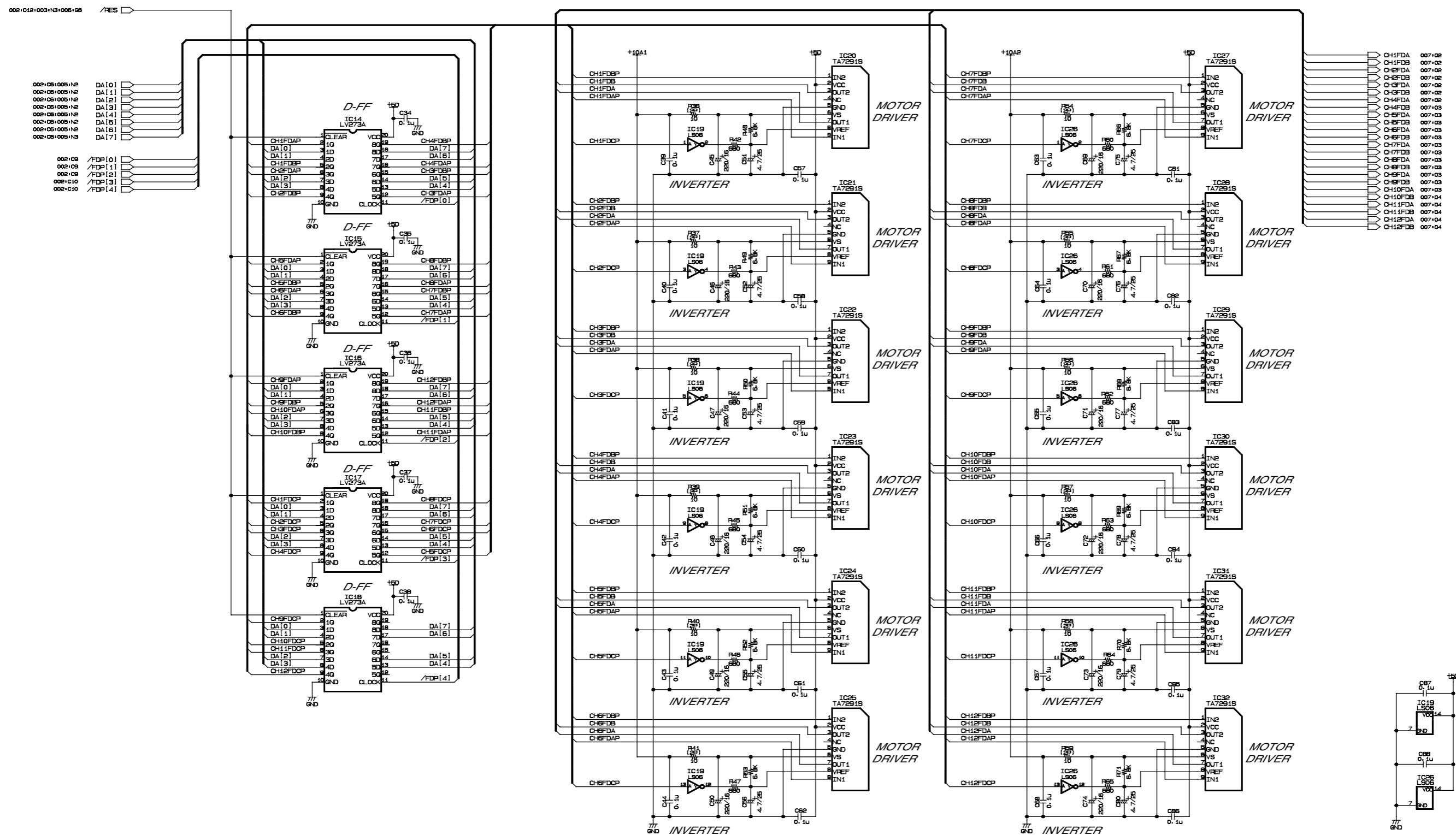
CPU



LINE DRIVER, SELECTOR

INCPU CIRCUIT DIAGRAM 004 (CS1D)

CS1D

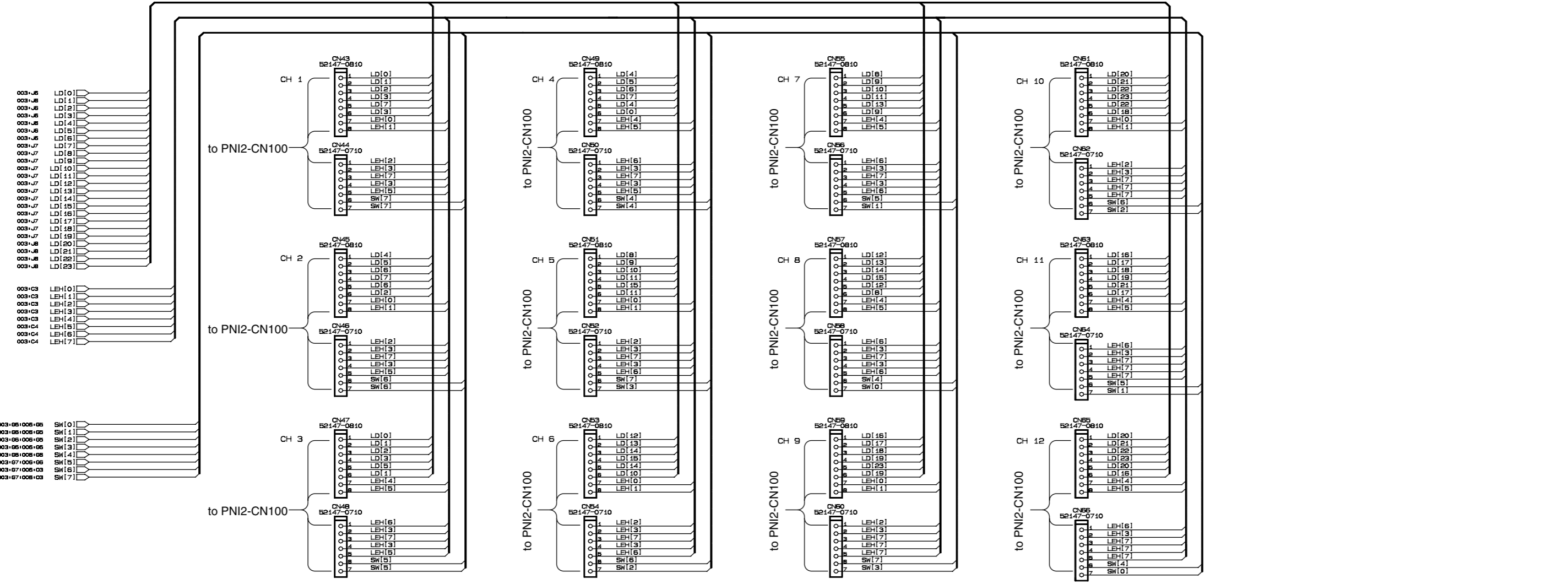
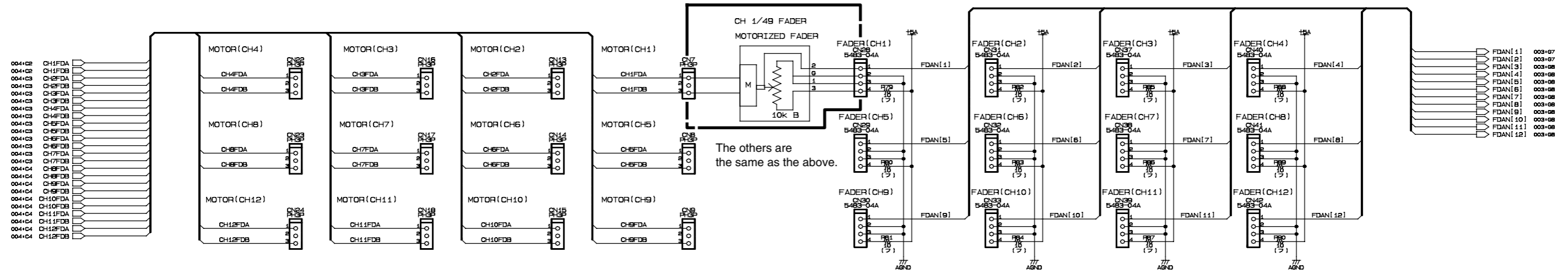


(2P): Metal Oxide Film Resistor

FADER CONTROL & DRIVER

INCPU CIRCUIT DIAGRAM 007 (CS1D)

CS1D



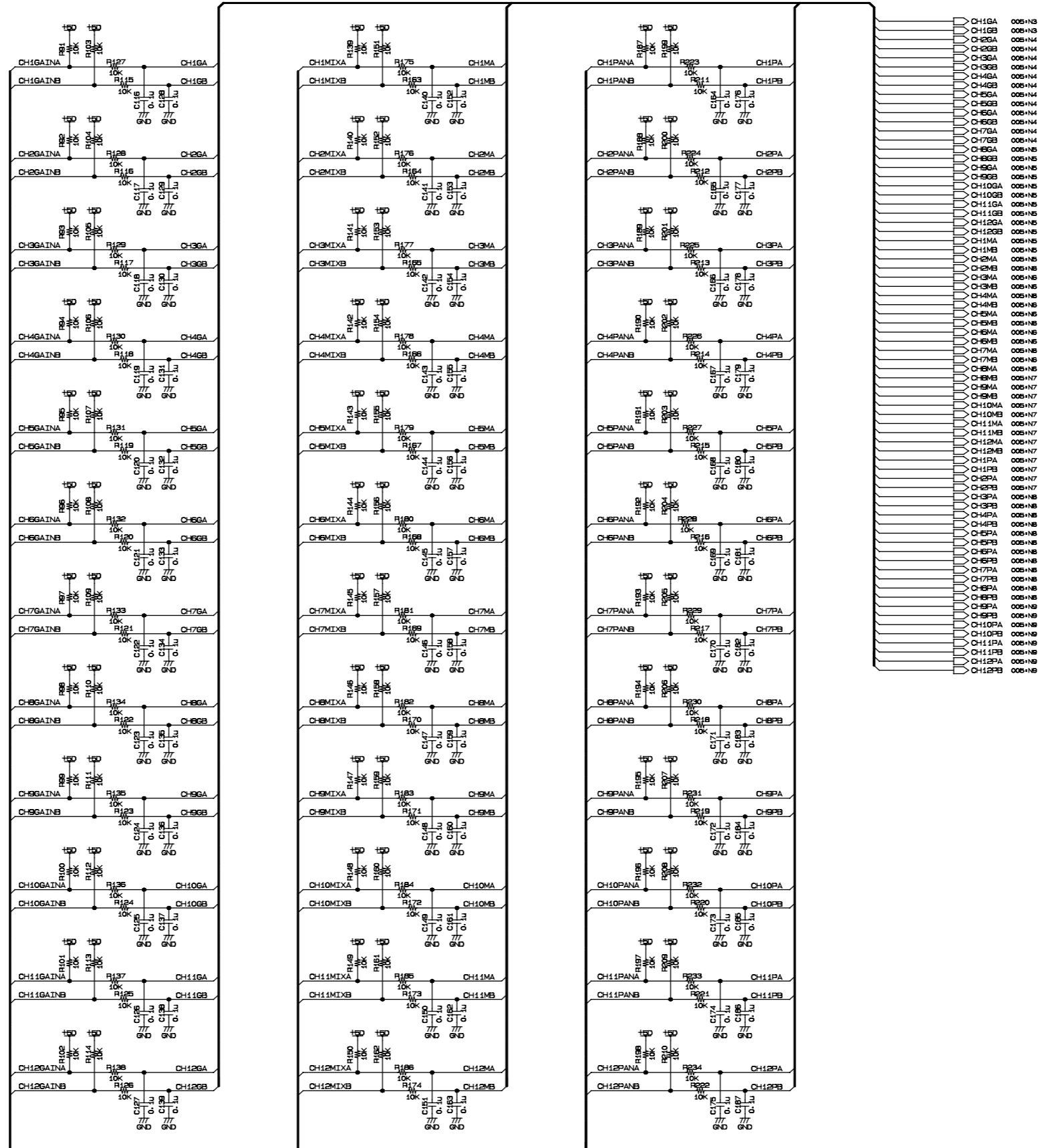
(?): Flame Proof Carbon Resistor

CONNECTOR

INCPU CIRCUIT DIAGRAM 008 (CS1D)

CS1D

- 006+03 CH1GAINA
- 006+03 CH1GAINB
- 006+03 CH2GAINA
- 006+03 CH2GAINB
- 006+03 CH3GAINA
- 006+03 CH3GAINB
- 006+03 CH4GAINA
- 006+03 CH4GAINB
- 006+03 CH5GAINA
- 006+03 CH5GAINB
- 006+03 CH6GAINA
- 006+03 CH6GAINB
- 006+04 CH7GAINA
- 006+04 CH7GAINB
- 006+04 CH8GAINA
- 006+04 CH8GAINB
- 006+04 CH9GAINA
- 006+04 CH9GAINB
- 006+04 CH10GAINA
- 006+04 CH10GAINB
- 006+04 CH11GAINA
- 006+04 CH11GAINB
- 006+04 CH12GAINA
- 006+04 CH12GAINB
- 006+06 CH1MIXA
- 006+06 CH1MIXB
- 006+06 CH2MIXA
- 006+06 CH2MIXB
- 006+06 CH3MIXA
- 006+06 CH3MIXB
- 006+06 CH4MIXA
- 006+06 CH4MIXB
- 006+06 CH5MIXA
- 006+06 CH5MIXB
- 006+06 CH6MIXA
- 006+06 CH6MIXB
- 006+06 CH7MIXA
- 006+06 CH7MIXB
- 006+06 CH8MIXA
- 006+06 CH8MIXB
- 006+06 CH9MIXA
- 006+06 CH9MIXB
- 006+06 CH10MIXA
- 006+06 CH10MIXB
- 006+06 CH11MIXA
- 006+06 CH11MIXB
- 006+06 CH12MIXA
- 006+06 CH12MIXB
- 006+03 CH1PANA
- 006+03 CH1PANB
- 006+03 CH2PANA
- 006+03 CH2PANB
- 006+03 CH3PANA
- 006+03 CH3PANB
- 006+04 CH4PANA
- 006+04 CH4PANB
- 006+04 CH5PANA
- 006+04 CH5PANB
- 006+04 CH6PANA
- 006+04 CH6PANB
- 006+04 CH7PANA
- 006+04 CH7PANB
- 006+04 CH8PANA
- 006+04 CH8PANB
- 006+04 CH9PANA
- 006+04 CH9PANB
- 006+04 CH10PANA
- 006+04 CH10PANB
- 006+04 CH11PANA
- 006+04 CH11PANB
- 006+04 CH12PANA
- 006+04 CH12PANB

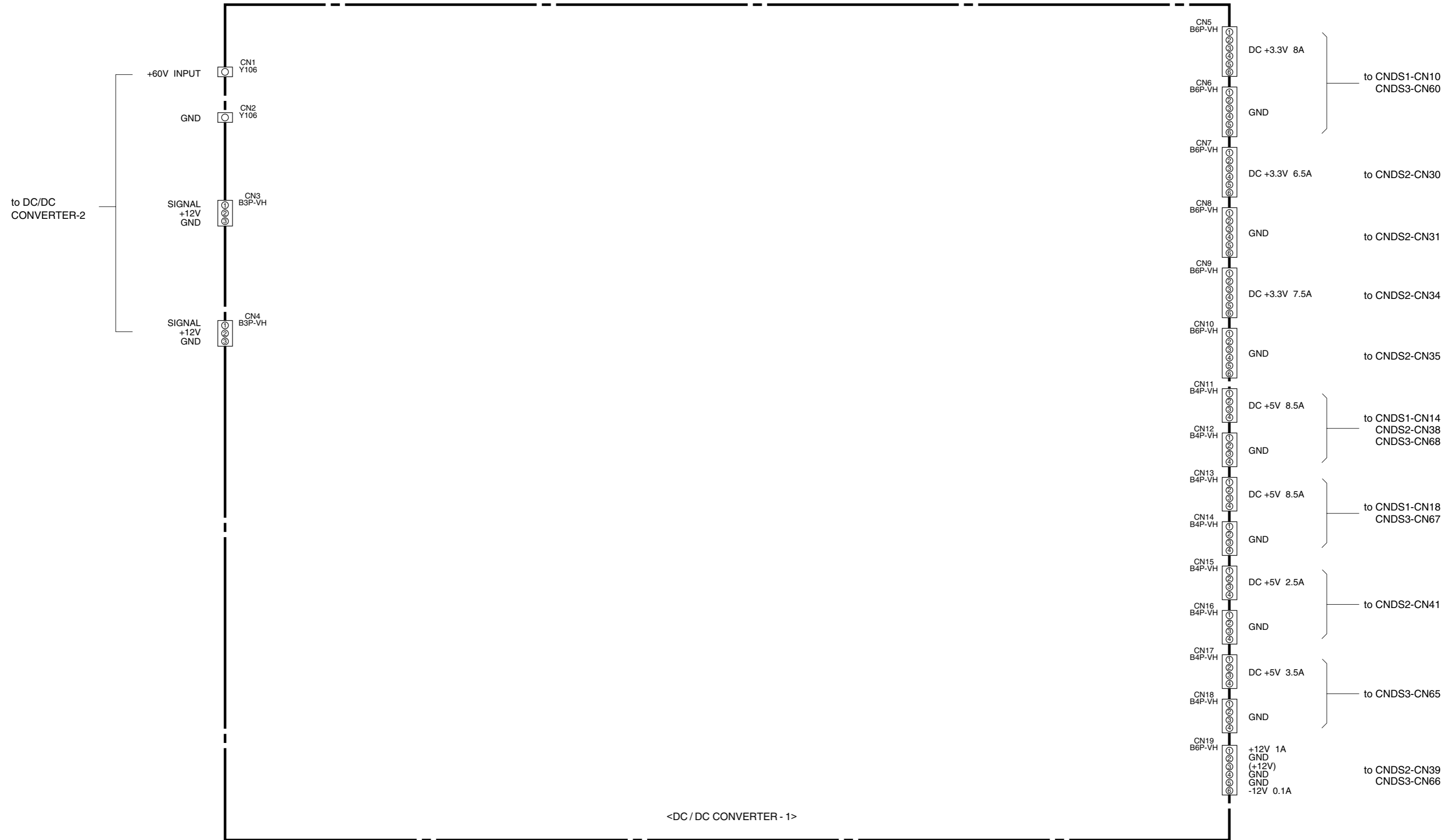


- CH1GA 006+N3
- CH1GB 006+N3
- CH2GA 006+N4
- CH2GB 006+N4
- CH3GA 006+N4
- CH3GB 006+N4
- CH4GA 006+N4
- CH4GB 006+N4
- CH5GA 006+N4
- CH5GB 006+N4
- CH6GA 006+N4
- CH6GB 006+N4
- CH7GA 006+N4
- CH7GB 006+N4
- CH8GA 006+N5
- CH8GB 006+N5
- CH9GA 006+N5
- CH9GB 006+N5
- CH10GA 006+N5
- CH10GB 006+N5
- CH11GA 006+N5
- CH11GB 006+N5
- CH12GA 006+N5
- CH12GB 006+N5
- CH1MA 006+N5
- CH1MB 006+N5
- CH2MA 006+N5
- CH2MB 006+N5
- CH3MA 006+N5
- CH3MB 006+N5
- CH4MA 006+N5
- CH4MB 006+N5
- CH5MA 006+N5
- CH5MB 006+N5
- CH6MA 006+N5
- CH6MB 006+N5
- CH7MA 006+N5
- CH7MB 006+N5
- CH8MA 006+N5
- CH8MB 006+N5
- CH9MA 006+N5
- CH9MB 006+N5
- CH10MA 006+N7
- CH10MB 006+N7
- CH11MA 006+N7
- CH11MB 006+N7
- CH12MA 006+N7
- CH12MB 006+N7
- CH1PA 006+N7
- CH1PB 006+N7
- CH2PA 006+N7
- CH2PB 006+N7
- CH3PA 006+N6
- CH3PB 006+N6
- CH4PA 006+N6
- CH4PB 006+N6
- CH5PA 006+N6
- CH5PB 006+N6
- CH6PA 006+N6
- CH6PB 006+N6
- CH7PA 006+N6
- CH7PB 006+N6
- CH8PA 006+N6
- CH8PB 006+N6
- CH9PA 006+N6
- CH9PB 006+N6
- CH10PA 006+N6
- CH10PB 006+N6
- CH11PA 006+N6
- CH11PB 006+N6
- CH12PA 006+N6
- CH12PB 006+N6

ENCODER INPUT

PS2000 CONNECTOR DIAGRAM (CS1D)

DSP1D



1

2

3

4

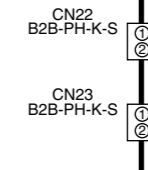
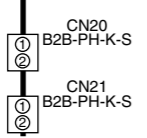
5

PS2000 CONNECTOR DIAGRAM (CS1D)

DSP1D

1

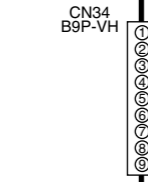
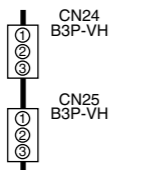
CAUTION SIGNAL INPUT
CAUTION SIGNAL INPUT



CAUTION SIGNAL OUTPUT to CND51-CN13
CAUTION SIGNAL OUTPUT to CND51-CN12

2

+12V
GND
+12V
GND

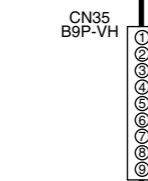
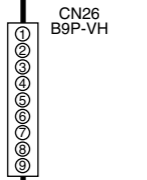


+11V 0.5A

to CND51-CN11
CND52-CN32
CND53-CN61

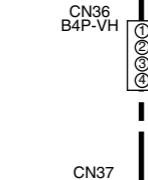
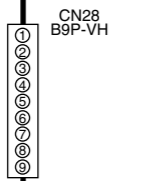
3

+60V INPUT



GND

+60V INPUT

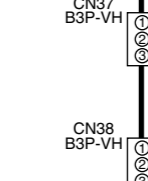
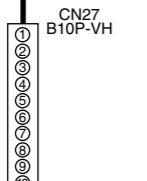


+12V 1.3A
GND

CND52-CN36

4

GND INPUT

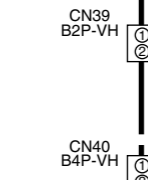
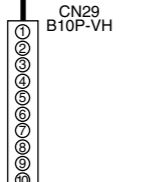


+5V 1.0A
GND

to CND51-CN15
CND52-CN33
CND53-CN62

5

GND INPUT



+48V 0.05A
GND

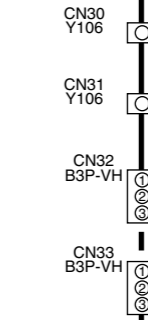
CND52-CN40

+15V 0.5A
GND
-15V 0.5A

CND52-CN37

6

<DC / DC CONVERTER - 2>



+60V INPUT
GND
SIGNAL +12V
GND
SIGNAL +12V
GND

to DC/DC CONVERTER-1