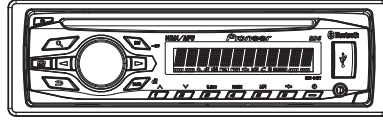


Pioneer

Service Manual



DEH-64BT/XNUC

ORDER NO.
CRT4746

CD RDS RECEIVER

DEH-64BT /XNUC

DEH-6400BT /XNUC

DEH-5400BT /XNUC

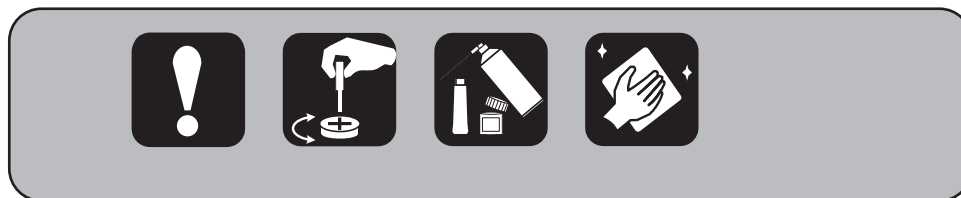
DEH-4400BT /XNEW5

DEH-4450BT /XNES

DEH-4490BT /XNID

This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech. Module	Remarks
CX-3287	CRT4759	S11.6STD	CD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly



PIONEER CORPORATION 1-1, Shin-ogura, Saiwai-ku, Kawasaki-shi, Kanagawa 212-0031, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
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K-ZZZ JULY 2011 Printed in Japan

SAFETY INFORMATION

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product may contain a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm.
Health & Safety Code Section 25249.6 - Proposition 65

Where in a manufacturer's service documentation, for example in circuit diagrams or lists of components, a symbol is used to indicate that a specific component shall be replaced only by the component specified in that documentation for safety reasons, the following symbol shall be used:



● Safety Precautions for those who Service this Unit.

When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

Caution:

1. During repair or tests, minimum distance of 13 cm from the focus lens must be kept.
2. During repair or tests, do not view laser beam for 10 seconds or longer.

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION

This product is a class 1 laser product classified under the Safety of laser products, IEC 60825-1:2007, and contains a class 1M laser module. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

CLASS 1 LASER PRODUCT

**CAUTION—CLASS 1M INVISIBLE LASER
RADIATION WHEN OPEN, DO NOT VIEW
DIRECTLY WITH OPTICAL INSTRUMENTS.**

WARNING!

The AEL (accessible emission level) of the laser power output is less than CLASS 1 but the laser component is capable of emitting radiation exceeding the limit for CLASS 1.

A specially instructed person should do servicing operation of the apparatus.

Laser diode characteristics

Wave length : 785 nm to 814 nm

Maximum output : 1 190 μ W(Emitting period : unlimited)

Additional Laser Caution

Transistors Q101 in PCB drive the laser diodes.

When Q101 is shorted between their terminals, the laser diodes will radiate beam.

If the top cover is removed with no disc loaded while such short-circuit is continued, the naked eyes may be exposed to the laser beam.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replaced only with the same or equivalent type recommended by the manufacture.

Discord used batteries according to the manufacture's instructions.

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5


6

7

8

1. SERVICE PRECAUTIONS

1.1 SERVICE PRECAUTIONS

1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
2. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
3. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY".
4. After replacing the pickup unit, be sure to check the grating.
5. Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.
6.  area and a heat sink becomes hot areas. Be careful not to burn yourself.

7. Software update

The software of this product is stored in IC671.

Please replace IC671 when making the version upgrade of software.

DEH-64BT/XNUC

5

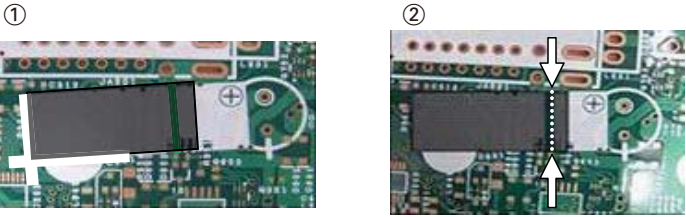
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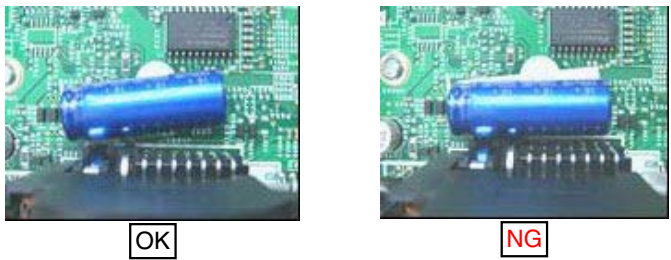
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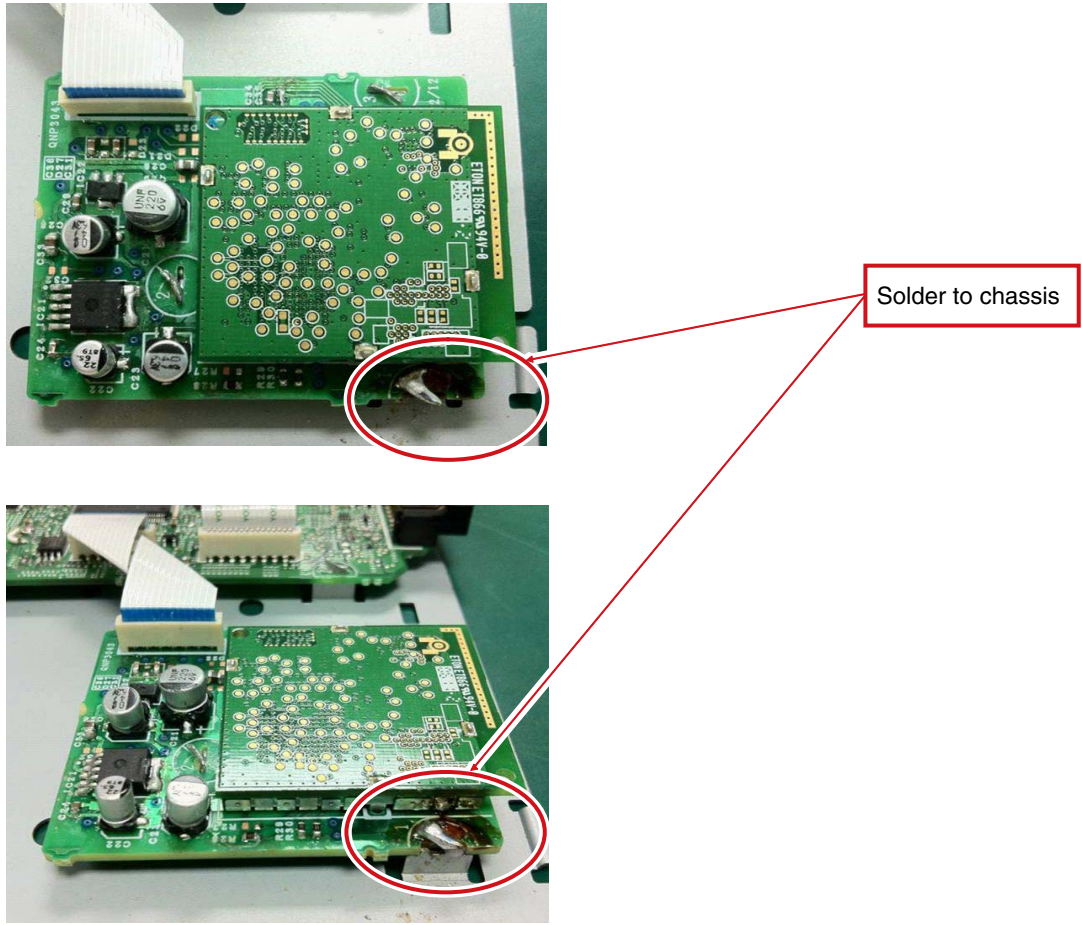
- 8. Capacitor Bond Lock (UC, EW5)
Acetate Tape (GYH1026)
- ① Please stick acetate tape along white line.
- ② Please confirm line hiding with acetate tape.
* length of tape : 24 ± 4 mm



- 9. Capacitor Bond Lock (ID, ES, ES1)
Silicon Glue (GEM1017)
- Place the capacitor in the center of the silk print, and confirm it does not touch to the connector. Then, apply silicon glue.



- 10. BT noise countermeasure
Need to solder BTGND to chassis.



1.2 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.
- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40°C. Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373°C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:

- Parts numbers of lead-free solder:
GYP1006 1.0 in dia.
GYP1007 0.6 in dia.
GYP1008 0.3 in dia.

2. SPECIFICATIONS

2.1 SPECIFICATIONS

• DEH-64BT/XNUC, DEH-6400BT/XNUC, DEH-5400BT/XNUC

General

Power source 14.4 V DC (10.8 V to 15.1 V allowable)
Grounding system Negative type
Maximum current consumption 10.0 A
Backup current 4.0 mA or less
Dimensions (W x H x D):
DIN
Chassis 178 mm x 50 mm x 165 mm
(7 in. x 2 in. x 6-1/2 in.)
Nose 188 mm x 58 mm x 16 mm
(7-3/8 in. x 2-1/4 in. x 5/8 in.)
D
Chassis 178 mm x 50 mm x 165 mm
(7 in. x 2 in. x 6-1/2 in.)
Nose 170 mm x 46 mm x 16 mm
(6-3/4 in. x 1-3/4 in. x 5/8 in.)
Weight 1.2 kg (2.6 lbs)

Audio

Maximum power output ... 50 W x 4
Continuous power output 22 W x 4 (50 Hz to 15 000 Hz, 5% THD, 4 Ω load, both channels driven)
Load impedance 4 Ω (4 Ω to 8 Ω allowable)
Preout maximum output level 2.0 V
Tone controls:
Bass
Frequency 100 Hz
Gain ±12 dB
Mid
Frequency 1 kHz
Gain ±12 dB
Treble
Frequency 10 kHz
Gain ±12 dB
Subwoofer (mono):
Frequency 50 Hz/63 Hz/80 Hz/100 Hz/125 Hz
Slope -18 dB/oct
Gain +6 dB to -24 dB
Phase Normal/Reverse

CD player

System Compact disc audio system
Usable discs Compact disc
Signal-to-noise ratio 94 dB (1 kHz) (IHF-A network)
Number of channels 2 (stereo)
MP3 decoding format MPEG-1 & 2 Audio Layer 3
WMA decoding format Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio)
(Windows Media Player)
WAV signal format Linear PCM & MS ADPCM
(Non-compressed)

USB

USB standard specification USB 2.0 full speed
Maximum current supply 1 A
USB Class MSC (Mass Storage Class)
File system FAT12, FAT16, FAT32
MP3 decoding format MPEG-1 & 2 Audio Layer 3
WMA decoding format Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio)
(Windows Media Player)
WAV signal format Linear PCM & MS ADPCM
(Non-compressed)

FM tuner

Frequency range 87.9 MHz to 107.9 MHz
Usable sensitivity 9 dBf (0.8 μV/75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio 72 dB (IHF-A network)

AM tuner

Frequency range 530 kHz to 1 710 kHz
Usable sensitivity 25 μV (S/N: 20 dB)
Signal-to-noise ratio 62 dB (IHF-A network)

Bluetooth

Version Bluetooth 3.0 certified
Output power +4 dBm Maximum
(Power class 2)

CEA2006 Specifications



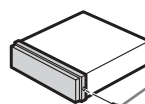
Power output 14 W RMS x 4 Channels (4 Ω and ≤ 1% THD+N)
S/N ratio 91 dBA (reference: 1 W into 4 Ω)

Note

Specifications and the design are subject to modifications without notice.

Securing the front panel

The front panel can be secured with the supplied screw.



Screw
(BPZ20P060FTC) (UC)
(XXX7020) (EW5, ID, ES)

• DEH-4400BT/XNEWS

General

Power source.....	14.4 V DC (10.8 V to 15.1 V allowable)
Grounding system.....	Negative type
Maximum current consumption.....	10.0 A
Backup current.....	4.0 mA or less
Dimensions (W × H × D):	
DIN	
Chassis.....	178 mm × 50 mm × 165 mm
Nose.....	188 mm × 58 mm × 16 mm
D	
Chassis.....	178 mm × 50 mm × 165 mm
Nose.....	170 mm × 46 mm × 16 mm
Weight.....	1.2 kg

Audio

Maximum power output.....	50 W × 4
Continuous power output ...	22 W × 4 (50 Hz to 15 000 Hz, 5 % THD, 4 Ω load, both channels driven)
Load impedance.....	4 Ω (4 Ω to 8 Ω allowable)
Preout maximum output level.....	2.0 V
Tone controls:	
Bass	
Frequency.....	100 Hz
Gain.....	±12 dB
Mid	
Frequency.....	1 kHz
Gain.....	±12 dB
Treble	
Frequency.....	10 kHz
Gain.....	±12 dB
Subwoofer (mono):	
Frequency.....	50 Hz/63 Hz/80 Hz/100 Hz/125 Hz
Slope.....	-18 dB/oct
Gain.....	+6 dB to -24 dB
Phase.....	Normal/Reverse

CD player

System.....	Compact disc audio system
Usable discs.....	Compact disc
Signal-to-noise ratio.....	94 dB (1 kHz) (IEC-A network)
Number of channels.....	2 (stereo)
MP3 decoding format.....	MPEG-1 & 2 Audio Layer 3
WMA decoding format.....	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)

WAV signal format.....	Linear PCM & MS ADPCM (Non-compressed)
------------------------	--

USB

USB standard specification.....	USB 2.0 full speed
Maximum current supply.....	1 A
USB Class.....	MSC (Mass Storage Class)
File system.....	FAT12, FAT16, FAT32
MP3 decoding format.....	MPEG-1 & 2 Audio Layer 3
WMA decoding format.....	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)
WAV signal format.....	Linear PCM & MS ADPCM (Non-compressed)

FM tuner

Frequency range.....	87.5 MHz to 108.0 MHz
Usable sensitivity.....	9 dBf (0.8 μV/75 Ω, mono, S/N: 30 dB)
Signal-to-noise ratio.....	72 dB (IEC-A network)

MW tuner

Frequency range.....	531 kHz to 1 602 kHz
Usable sensitivity.....	25 μV (S/N: 20 dB)
Signal-to-noise ratio.....	62 dB (IEC-A network)


LW tuner

Frequency range.....	153 kHz to 281 kHz
Usable sensitivity.....	28 μV (S/N: 20 dB)
Signal-to-noise ratio.....	62 dB (IEC-A network)

Bluetooth

Version.....	Bluetooth 3.0 certified
Output power.....	+4 dBm Maximum (Power class 2)

Note

Specifications and the design are subject to modifications without notice. 

• DEH-4450BT/XNES, DEH-4490BT/XNID

General

Rated power source 14.4 V DC
(allowable voltage range:
12.0 V to 14.4 V DC)

Grounding system Negative type

Maximum current consumption
..... 10.0 A

Backup current 4.0 mA or less

Dimensions (W × H × D):

DIN

Chassis 178 mm × 50 mm ×
165 mm

Nose 188 mm × 58 mm ×
16 mm

D

Chassis 178 mm × 50 mm ×
165 mm

Nose 170 mm × 46 mm ×
16 mm

Weight 1.2 kg

Audio

Maximum power output ... 50 W × 4

Continuous power output

..... 22 W × 4 (50 Hz to 15 000 Hz,
5 % THD, 4 Ω load, both chan-
nels driven)

Load impedance 4 Ω (4 Ω to 8 Ω allowable)

Preout maximum output level

..... 2.0 V

Tone controls:

Bass

Frequency 100 Hz

Gain ±12 dB

Mid

Frequency 1 kHz

Gain ±12 dB

Treble

Frequency 10 kHz

Gain ±12 dB

Subwoofer (mono):

Frequency 50 Hz/63 Hz/80 Hz/100 Hz/
125 Hz

Slope -18 dB/oct

Gain +6 dB to -24 dB

Phase Normal/Reverse

CD player

System Compact disc audio system

Usable discs Compact disc

Signal-to-noise ratio 94 dB (1 kHz) (IEC-A network)

Number of channels 2 (stereo)

MP3 decoding format MPEG-1 & 2 Audio Layer 3

WMA decoding format Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch
audio)

(Windows Media Player)

WAV signal format Linear PCM & MS ADPCM

(Non-compressed)

USB

USB standard specification

..... USB 2.0 full speed

Maximum current supply

..... 1 A

USB Class MSC (Mass Storage Class)

File system FAT12, FAT16, FAT32

MP3 decoding format MPEG-1 & 2 Audio Layer 3

WMA decoding format Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch
audio)

(Windows Media Player)

WAV signal format Linear PCM & MS ADPCM

(Non-compressed)

FM tuner

Frequency range 87.5 MHz to 108.0 MHz

Usable sensitivity 9 dBf (0.8 μV/75 Ω, mono, S/N:
30 dB)

Signal-to-noise ratio 72 dB (IEC-A network)

MW tuner

Frequency range 531 kHz to 1 602 kHz (9 kHz)

530 kHz to 1 640 kHz (10 kHz)

Usable sensitivity 25 μV (S/N: 20 dB)

Signal-to-noise ratio 62 dB (IEC-A network)

SW tuner

Frequency range 2 300 kHz to 7 735 kHz

(2 300 kHz to 2 495 kHz, 2 940

kHz to 4 215 kHz, 4 540 kHz to

5 175 kHz, 5 820 kHz to 6 455

kHz, 7 100 kHz to 7 735 kHz)

9 500 kHz to 21 975 kHz

(9 500 kHz to 10 135 kHz, 11

580 kHz to 12 215 kHz, 13 570

kHz to 13 870 kHz, 15 100 kHz

to 15 735 kHz, 17 500 kHz to

17 985 kHz, 18 015 kHz to 18

135 kHz, 21 340 kHz to 21 975

kHz)

Usable sensitivity 28 μV (S/N: 20 dB)

Signal-to-noise ratio 62 dB (IEC-A network)

Bluetooth

Version Bluetooth 3.0 certified

Output power +4 dBm Maximum

(Power class 2)

Note

Specifications and the design are subject to
modifications without notice.

2.2 DISC/CONTENT FORMAT



3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

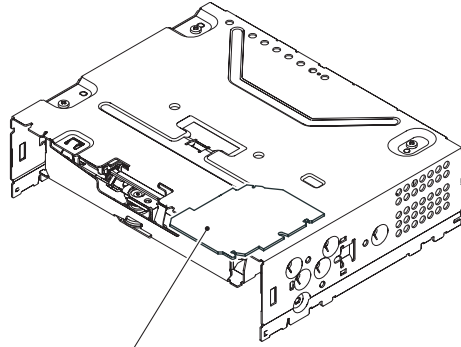
To keep the product quality after servicing, please confirm following check points.

No.		Procedures	Item to be confirmed
1		Confirm whether the customer complain has been solved. If the customer complain occurs with the specific media, use it for the operation check.	The customer complain must not be reappeared. Display, audio and operations must be normal.
2	CD	Play back a CD. (Track search)	No malfunction on display, audio and operation.
3	FM/AM tuner	Check FM/AM tuner action. (Seek, Preset) Switch band to check both FM and AM.	Display, audio and operations must be normal.
4		Check whether no disc is inside the product.	The media used for the operating check must be ejected.
5		Appearance check	No scratches or dirt on its appearance after receiving it for service.

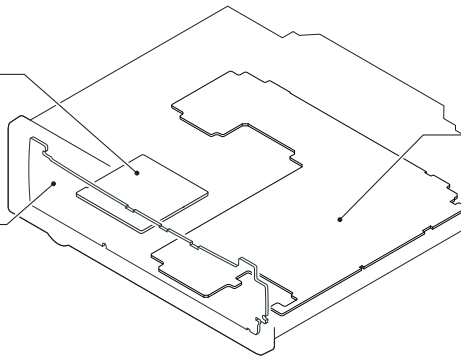
See the table below for the items to be checked regarding audio:

Item to be checked regarding audio
Distortion
Noise
Volume too low
Volume too high
Volume fluctuating
Sound interrupted

3.2 PCB LOCATIONS



C CD Core Unit (S11.6STD)



E BT Unit

B Keyboard Unit
(A,B)

D Keyboard Unit
(C,D,E,F)

A Tuner Amp Unit

A:DEH-64BT/XNUC

B:DEH-6400BT/XNUC

C:DEH-5400BT/XNUC

D:DEH-4400BT/XNEW5

E:DEH-4450BT/XNES

F:DEH-4490BT/XNID

Unit Number : QWM3362(A)

: QWM3300(B)

: QWM3299(C)

: QWM3298(D)

: QWM3301(E)

: QWM3302(F)

Unit Name : Tuner Amp Unit

Unit Number : (A,B)

Unit Name : Keyboard Unit

Unit Number : CWX4023

Unit Name : CD Core Unit (S11.6STD)

Unit Number : (C,E,F)

: (D)

Unit Name : Keyboard Unit

Unit Number : QWM3365

Unit Name : BT Unit

3.3 JIGS LIST

● Jigs List

Name	Jig No.	Remarks
16P FFC	GGD1310	Tuner Amp Unit - CD Core Unit
Test Disc	TCD-782	Checking the grating
L.P.F.		Checking the grating (Two pieces)
Acetate Tape	GYH1026	Capacitor Bond Lock
Silicon Glue	GEM1017	Capacitor Bond Lock

● Grease List

Name	Grease No.	Remarks
Grease	GEM1024	CD Mechanism Module
Grease	GEM1038	CD Mechanism Module
Grease	GEM1043	CD Mechanism Module
Grease	GEM1045	CD Mechanism Module

3.4 CLEANING



Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

Portions to be cleaned	Cleaning tools
CD pickup lenses	Cleaning liquid : GEM1004 Cleaning paper : GED-008

4. BLOCK DIAGRAM

A

A TUNER AMP UNIT

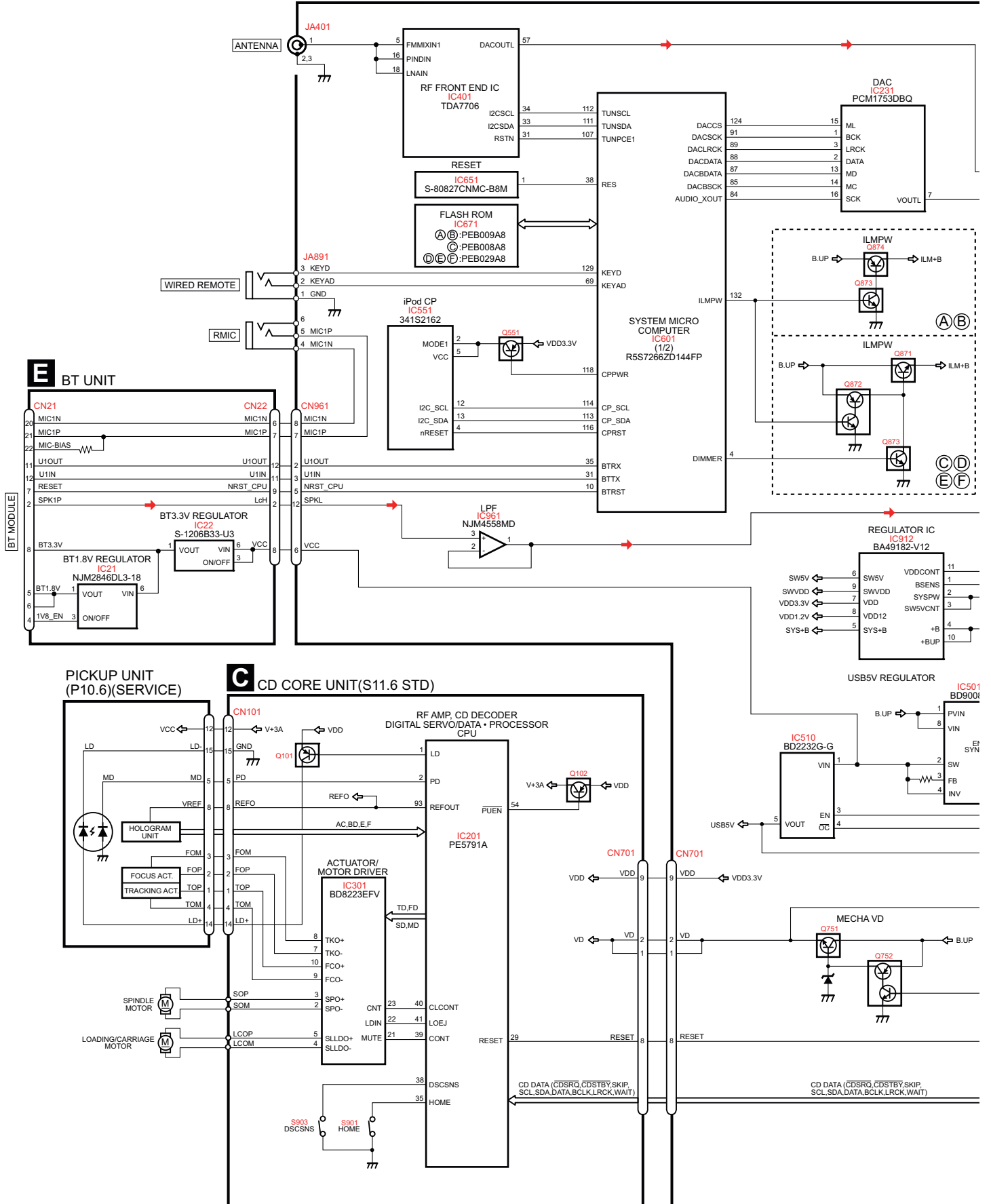
B

C

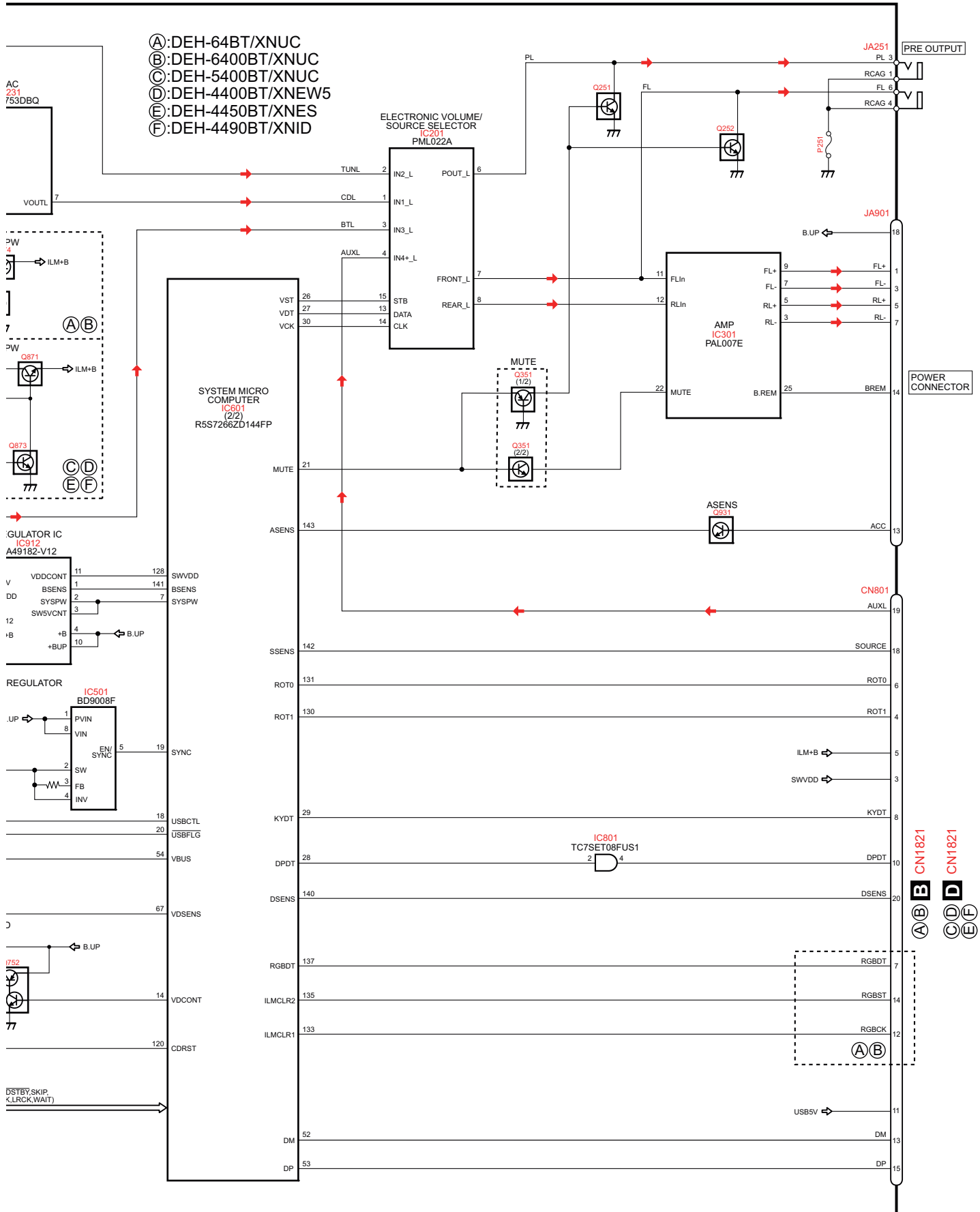
D

E

F



- (A):DEH-64BT/XNUC
- (B):DEH-6400BT/XNUC
- (C):DEH-5400BT/XNUC
- (D):DEH-4400BT/XNEW5
- (E):DEH-4450BT/XNES
- (F):DEH-4490BT/XNID



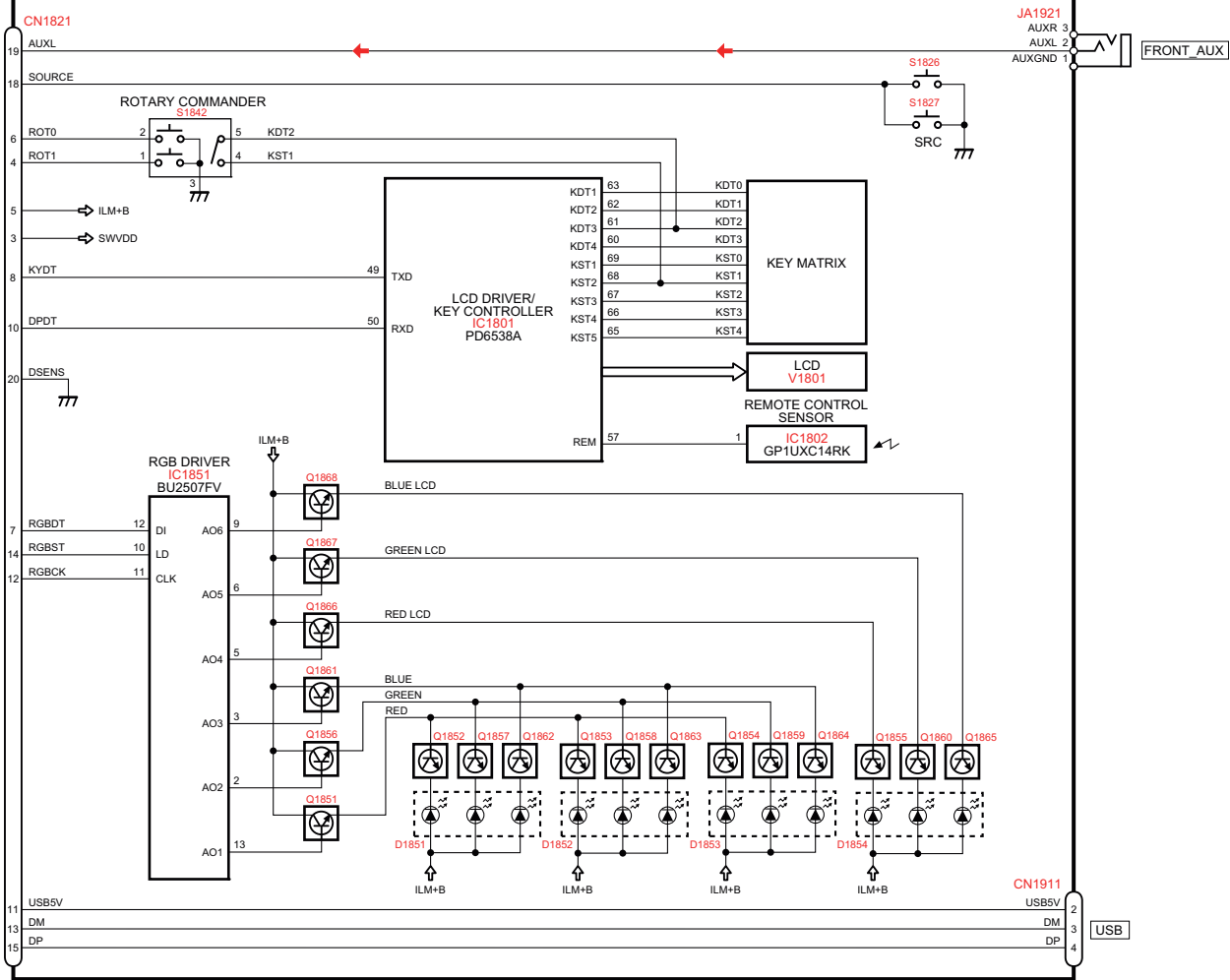
B KEYBOARD UNIT
(DEH-64BT/XNUC,DEH-6400BT/XNUC)

A

B

C

A CN801



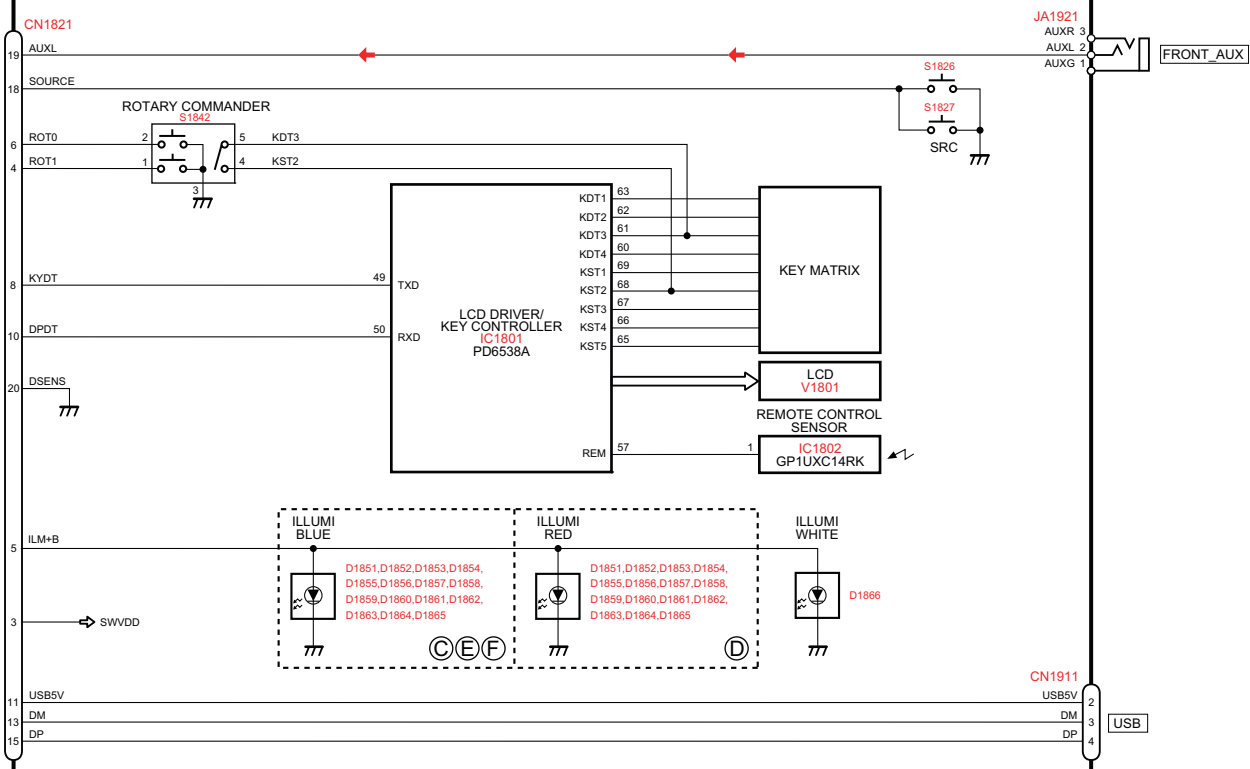
D KEYBOARD UNIT
(DEH-5400BT/XNUC,DEH-4400BT/XNEW5,DEH-4450BT/XNES,DEH-4490BT/XNID)

D

E

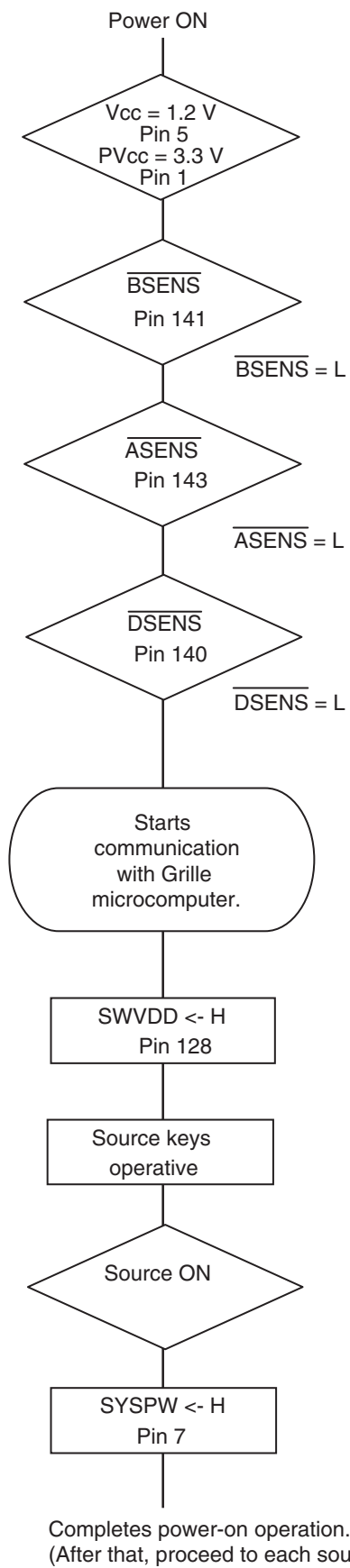
F

A CN801



5. DIAGNOSIS

5.1 OPERATIONAL FLOWCHART



In case of the above signal, the communication with Grille microcomputer may fail. If the time interval is not 300 msec, the oscillator may be defective.

5.2 ERROR CODE LIST

● ERROR CODES

If a CD memory device is inoperable, or operation of such media is stopped by an error, the error mode is established and a cause of the error is displayed by an error code. Indication of error codes is intended to reduce the number of calls from customers and facilitate failure analysis and repair work in servicing.

(1) DISPLAY METHOD

If "0xFD" error mode is displayed in CD MODE (CD MODE area for display), an error code will be displayed in the MIN (minute display) and SEC (second display) areas.

The same code is displayed in the MIN and SEC areas.
The TNO area is blank (#0FFH), as it conventionally was.

- Display example of the head unit

Depending on the display capability of LCDs, the display format varies, as shown below. XX denotes an error number.

Note: In a case of an OEM product, the error display format is subject to the specifications used by the equipment manufacturer.

8-digit display

ERROR-xx

6-digit display

ERR-xx

4-digit display

E-xx

(2) LIST OF CD ERROR CODES (Error Mode: 0xFD)

Code	Classification	Error code to be displayed	Details and possible causes
07	Servo	TOC reading NG	TOC information cannot be read. --> The partial disk or TOC content is illegal.
10	Servo	Carriage Home NG	The pickup cannot move toward the inner track. The CRG cannot move from the inner track. --> Defective HOME SW; Failure in CRG movement.
11	Servo	Focus NG	Focusing not available --> Disc placed upside-down; Stains on the disc; excessive vibration.
12	Servo	Spindle Lock NG Subcode NG RF-amp NG	Spindle not locked. Subcode not readable. Proper RF AMP gain not obtained. --> Defective spindle; Scratches or stains on the disc; excessive vibration. --> A CD-R/RW disc that does not contain data loaded, or in a rare case, disc placed upside-down. --> RF signal error.
15	Servo	RF NG	The digital signal from the disc cannot be detected. --> A CD-R/RW disc that does not contain data loaded.
17	Servo	Setup NG	The laser output cannot be adjusted. Focus can be easily lost. --> Scratches or stains on the disc; excessive vibration.
30	Servo	Search Time Out	Failed to reach a target address. And, the search became a timeout. --> Carriage/Tracking error; Scratches on the disc; Stains on the disc
50	Mechanism	Load NG Eject NG	Disc loading/ejection not completed --> A foreign object inserted in the mechanism; Disc jammed.
51	Mechanism	Failure in retried turning for ejection	Disc could not be ejected even after disc turning had been retried. --> A foreign object inserted in the mechanism; Disc jammed.

NOTES

- Indications of error codes are available only during disc operations, because CD operations are unavailable if a mechanical error is generated.
- If the TOC cannot be read, It stops because of error 07.
- If you design a new head unit, be sure to use one of the display formats indicated in "Display example of the head unit."
- The 2 high-order digits of an error code denote the main classification, shown below.

code	classification
0x	
1x	Servo-related errors
3x	
5x	Mechanism-related errors

- How to restore from each error is shown below.

Servo-related errors(0X, 1X, 3X) : Servo-related errors CD Off, Eject, ACC Off, Back-up Off, Communication reset, Reset

Load NG/Eject NG(50) : Reload, Eject, ACC Off, Back-up Off, Communication reset, Reset

Failure in retried turning for ejection : CD On, Eject, ACC Off, Back-up Off, Communication reset, Reset

USB storage device/iPod

Message	Cause	Action
NO DEVICE	When plug and play is off, no USB storage device or iPod is connected.	<ul style="list-style-type: none"> • Turn the plug and play on. • Connect a compatible USB storage device/iPod.
FRMT READ	Sometimes there is a delay between the start of playback and when you start to hear any sound.	Wait until the message disappears and you hear sound.
NO AUDIO	There are no songs.	Transfer the audio files to the USB storage device and connect.
	The connected USB storage device has security enabled.	Follow the USB storage device instructions to disable the security.
SKIPPED	The connected USB storage device contains files embedded with Windows Media™ DRM 9/10.	Play an audio file not embedded with Windows Media DRM 9/10.
PROTECT	All the files in the USB storage device are embedded with Windows Media DRM 9/10.	Transfer audio files not embedded with Windows Media DRM 9/10 to the USB storage device and connect.

Message	Cause	Action
N/A USB	The USB device connected to is not supported by this unit.	<ul style="list-style-type: none"> • Connect a USB Mass Storage Class compliant device. • Disconnect your device and replace it with a compatible USB storage device.
CHECK USB	The USB connector or USB cable has short-circuited.	Check that the USB connector or USB cable is not caught in something or damaged.
	The connected USB storage device consumes more than 500 mA (maximum allowable current).	Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect only compliant USB storage devices.
	The iPod operates correctly but does not charge.	Make sure the connection cable for the iPod has not shorted out (e.g., not caught in metal objects). After checking, turn the ignition switch OFF and back ON, or disconnect the iPod and reconnect.

A

B

C

D

E

F

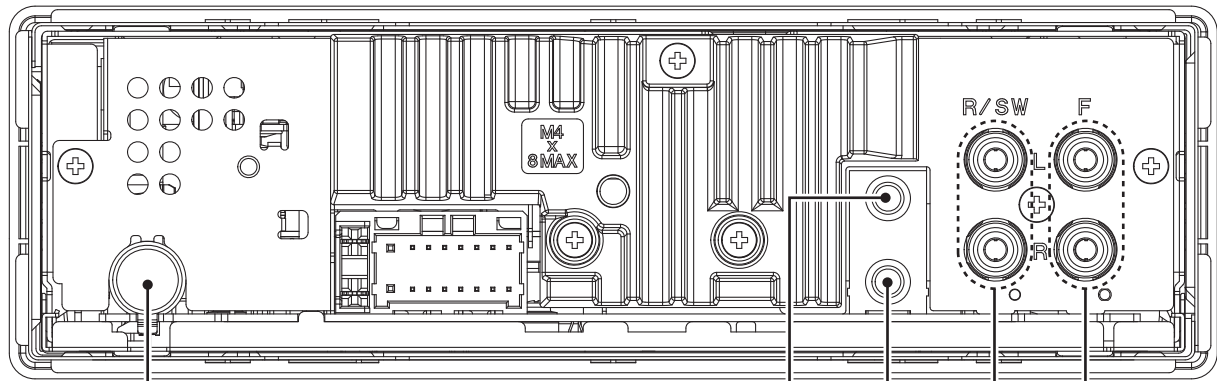
Message	Cause	Action
ERROR-19	Communication failed.	<ul style="list-style-type: none"> • Perform one of the following operations. <ul style="list-style-type: none"> –Turn the ignition switch OFF and back ON. –Disconnect the USB storage device. –Change to a different source. • Then, return to the USB source. • Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
	iPod failure.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
ERROR-23	USB storage device was not formatted with FAT12, FAT16 or FAT32.	USB storage device should be formatted with FAT12, FAT16 or FAT32.

Message	Cause	Action
ERROR-16	The iPod firmware version is old.	Update the iPod version.
	iPod failure.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
STOP	There are no songs in the current list.	Select a list that contains songs.
NOT FOUND	No related songs.	Transfer songs to the iPod.

Bluetooth device

Message	Cause	Action
ERROR-10	The power failed for the Bluetooth module of this unit.	<p>Turn the ignition switch OFF and then to ACC or ON.</p> <p>If the error message is still displayed after performing the above action, please contact your dealer or an authorized Pioneer Service Station.</p>

5.3 CONNECTOR FUNCTION DESCRIPTION



ANTENNA

MICROPHONE
INPUT

WIRED
REMOTE
CONTROL

FRONT
OUTPUT

REAR OUTPUT or
SUBWOOFER OUTPUT

15	13	11	9	7	5	3	1
16	14	12	10	8	6	4	2

- | | |
|-------|----------|
| 1 FL+ | 9 NC |
| 2 FR+ | 10 NC |
| 3 FL- | 11 NC |
| 4 FR- | 12 NC |
| 5 RL+ | 13 ACC |
| 6 RR+ | 14 B.REM |
| 7 RL- | 15 B.UP |
| 8 RR- | 16 GND |

6. SERVICE MODE

6.1 DISPLAY TEST MODE

A The information such as the system microcomputer version is checked.

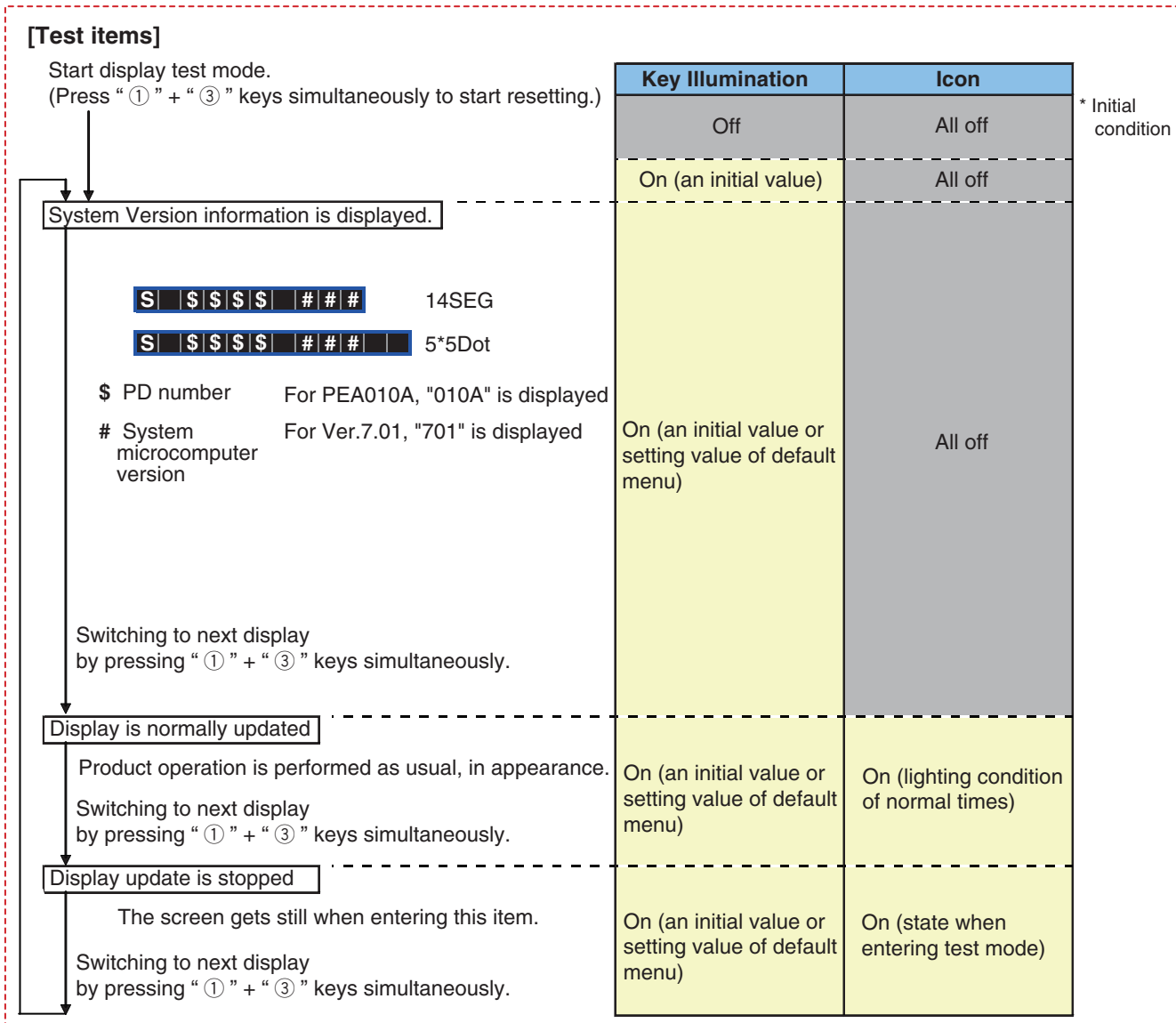
[How to enter Test mode]

Press “①” and “③” keys simultaneously to start resetting.

[Operation key]

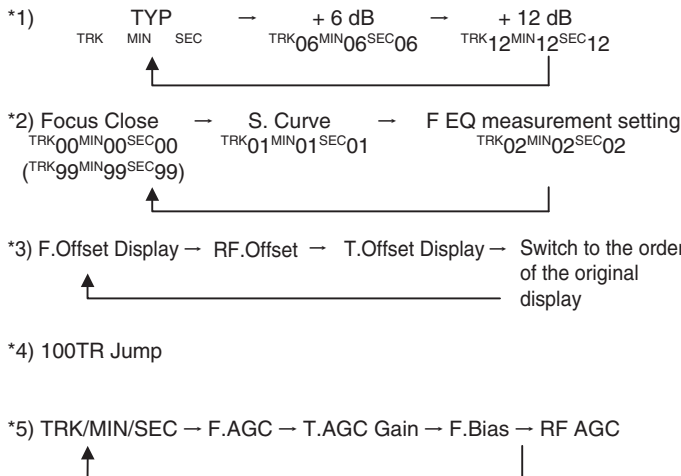
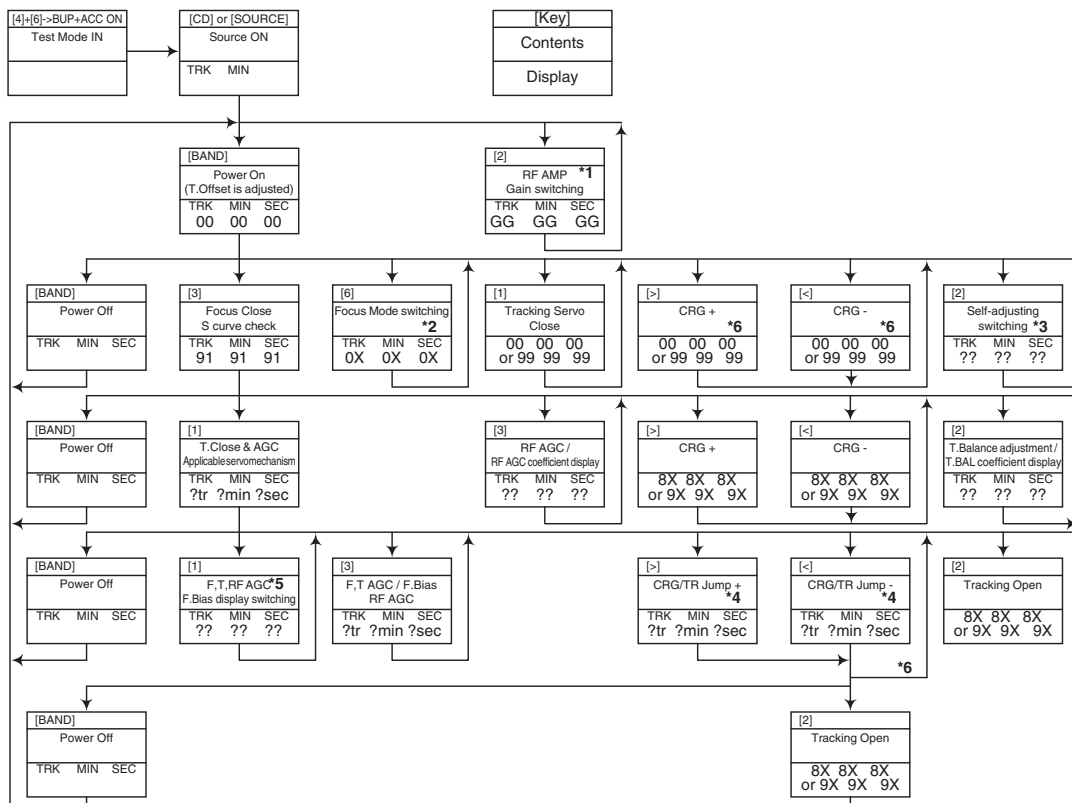
Operation key	Processing	Remarks
① + ③	Enter display test mode Switch to next test mode	

B



F

● Flow Chart



*6) CRG motor voltage = 2 [V]

[Key]	Operation
[BAND]	Power On/Off
[>]	CRG + / TR Jump + (Direction of the external surface)
[<]	CRG - / TR Jump - (Direction of the internal surface)
[1]	T. CLS & AGC & Applicable servomechanism / AGC, AGC display setting
[2]	RF Gain switching / Offset adjustment display / T. Balance adjustment / T. Open
[3]	F. Close, S. Curve / Rough Servo and RF AGC / F, T, RF AGC
[6]	F. Mode switching / Tracking Close

- After the [EJECT] key is pressed keys other than the [EJECT] key should not be pressed, until disc ejection is complete.
- When the key [2] or [3] is pressed during the Focus Search, the power supply should be immediately turned off (otherwise the lens sticks to Wall, causing the actuator to be damaged).
- In the case of 100TR Jump, the mechanism shall be set to the Tracking Close mode when the key is released.
- When the power is turned on/off the gain of the RFAMP is reset to 0 dB. At the same time all the self-adjusting values shall return to the default setting.
- Do not do Tracking Servo Close before doing Focus Servo Close. (Because the overcurrent flows)

7. DISASSEMBLY

While the photograph shown is slightly different from this model in shape, the disassembly procedure is the same.

● Removing the Panel Assy (Fig.1)

- ➡ 1 Remove the two hooks.
- ➡ 2 Remove the two hooks and then remove the Panel Assy.

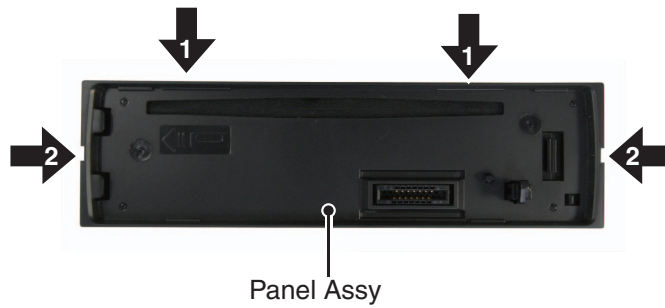


Fig.1

● Removing the CD Mechanism Module (Fig.2, 3, 4)

- ➡ 1 Remove the screw.
- ➡ 2 Remove the two screws.

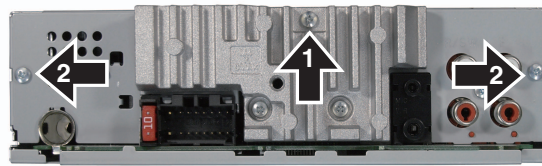


Fig.2

The CD Mechanism Module side is made a bottom.

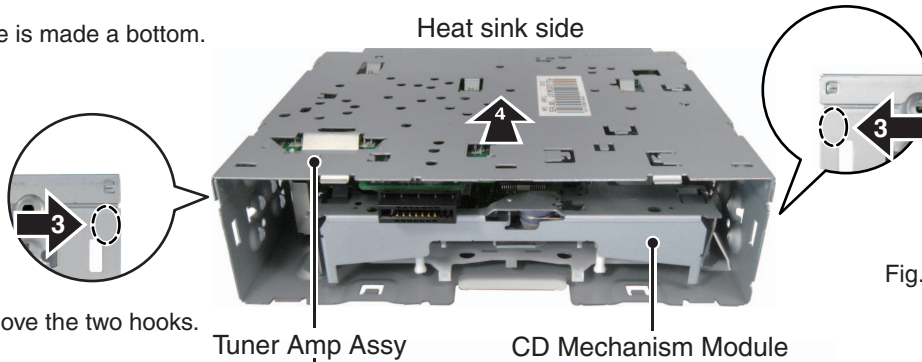


Fig.3

- ➡ 3 Push the area and remove the two hooks.

- ➡ 4 Slide the Tuner Amp Assy in the direction of the arrow and then remove the hooks of upper and lower.

Lift off the Tuner Amp Assy from the Heat sink side.

- ➡ 5 The Tuner Amp Assy is fixed into the ditch.

- ➡ 6 Disconnect the FFC and then remove the CD Mechanism Module

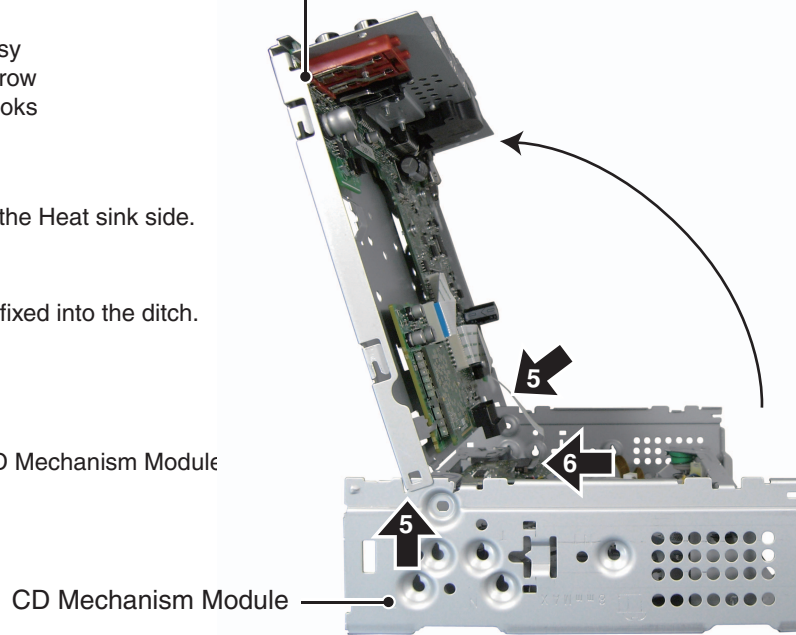


Fig.4

● Removing the BT Unit and Tuner Amp Unit (Fig.5)

- ➡ 1 Disconnect the FFC.
- ➡ 2 Straighten the tabs at three locations indicated and then remove the BT Unit.
- ➡ 3 Remove the two screws.
- ➡ 4 Remove the two screws.
- ➡ 5 Straighten the tabs at two locations indicated and then remove the Tuner Amp Unit.

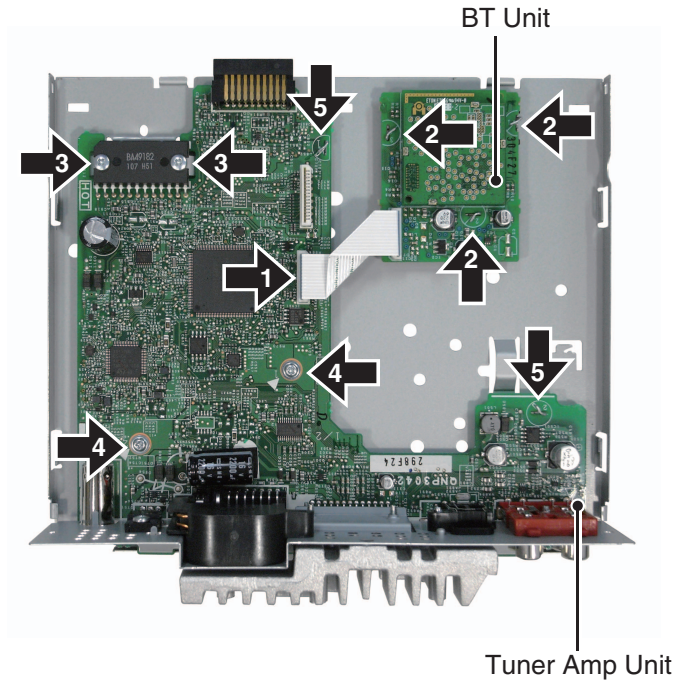


Fig.5

● Attention of removing (Fig.6)

Don't remove this screws excluding the dismantlement of the CD Mechanism Module.

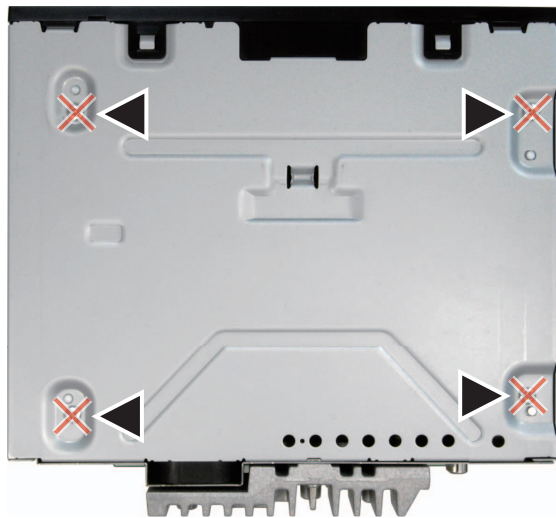


Fig.6

● **Disassembling the Panel Part (Fig.7, 8)**

A

1. Remove the arm while bending the rib of the panel upward.

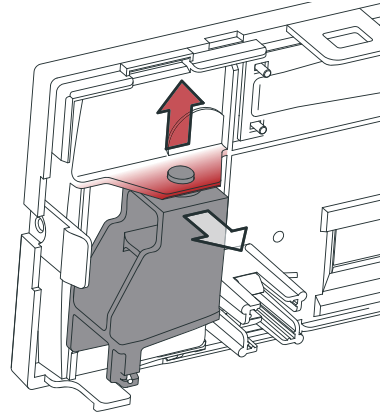


Fig.7

B

2. Press the upside hook and the bottom side hook of the button at the same time, and pull out the button.

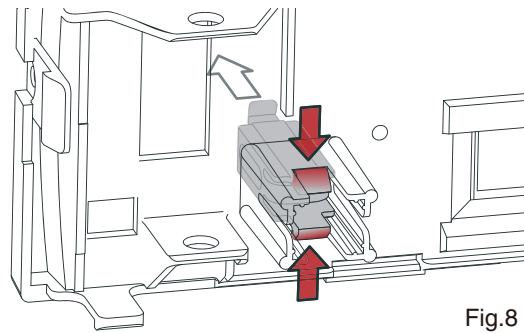


Fig.8

C

● **Assembling the Panel Part (Fig.9, 10, 11)**

D

1. Attach the button from the front side of the panel.

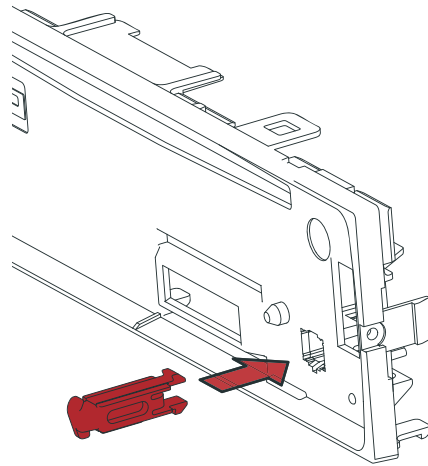


Fig.9

E

2. Attach the spring to the arm as shown in the figure.

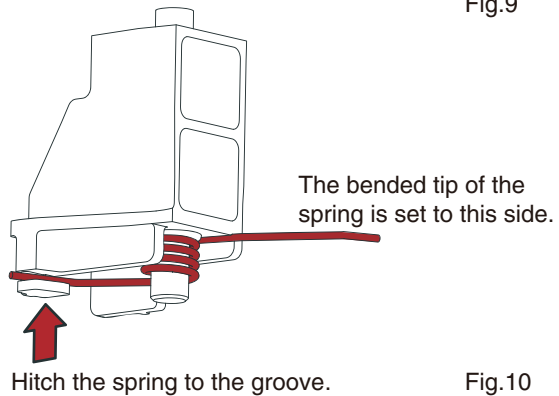


Fig.10

F

3. Fit the spring in the groove at the position shown in the figure.
4. Fit the boss on the lower side of the arm in the lower hole of the panel, and then warp the rib on the panel in the direction shown in the figure and fit the boss of the arm in the panel.

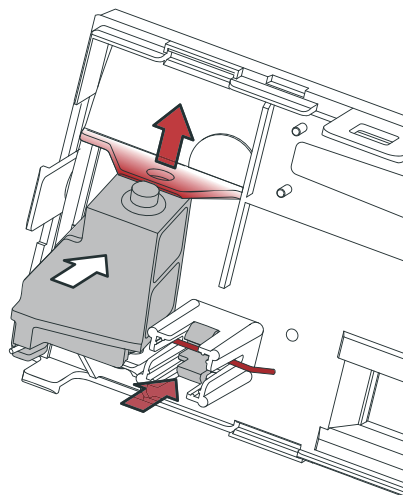
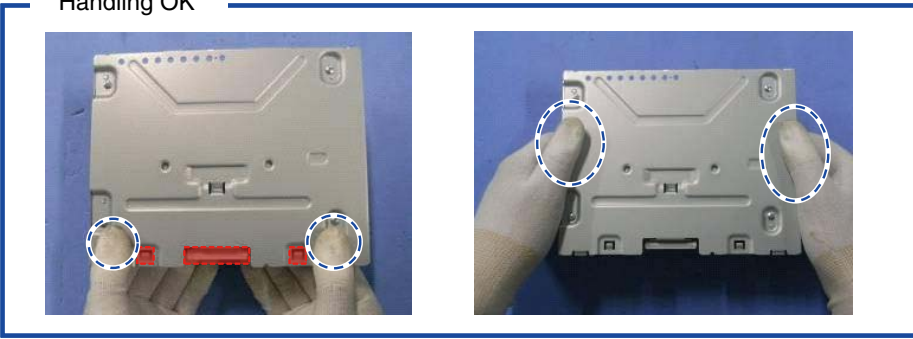


Fig.11

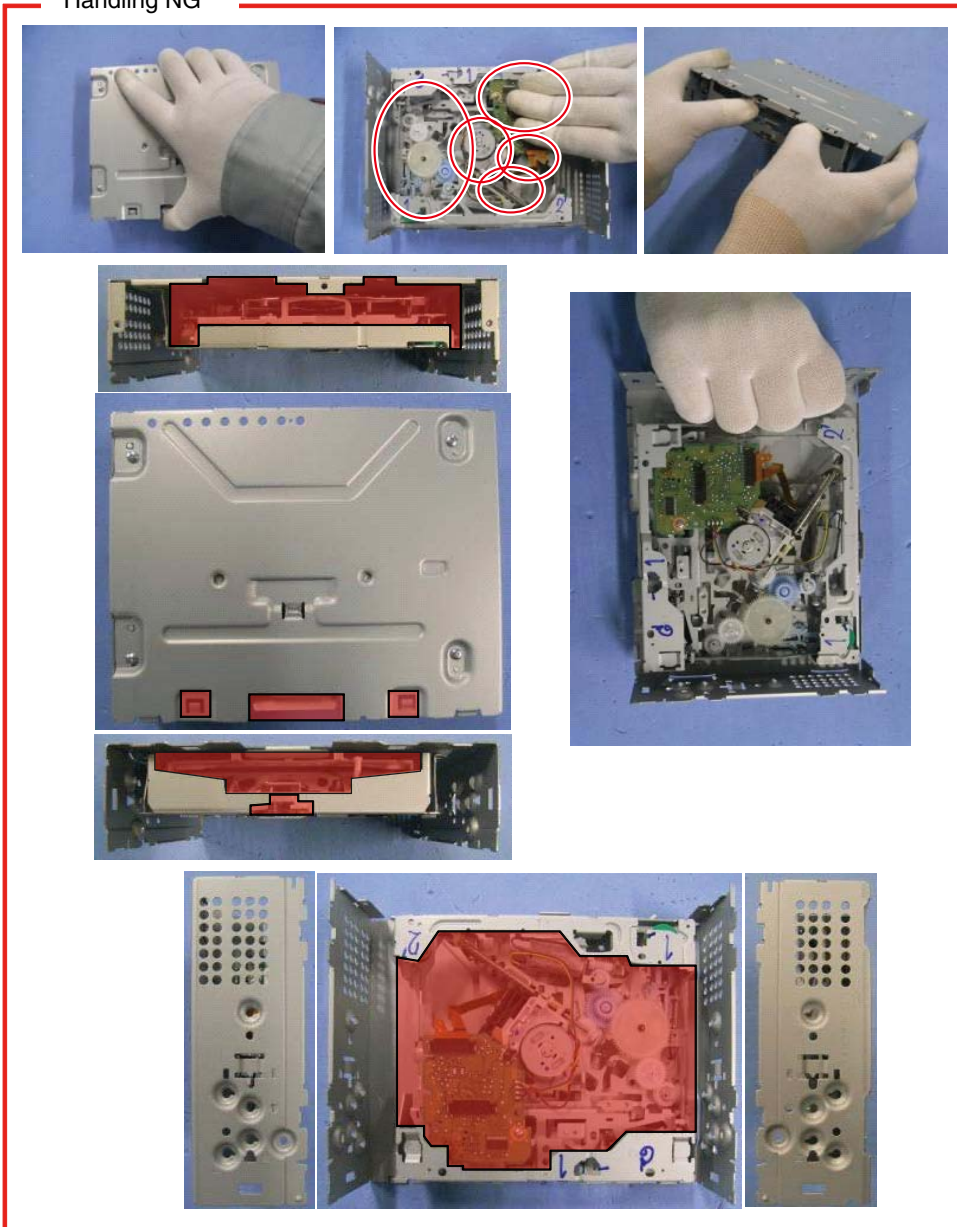
● How to carry the mecha unit

1. Hold the designated points (shown with dashed lines) of the upper chassis and the front/rear bracket.
2. Be careful not to hold the solid line portions or the CRG mecha part or insert foreign substances, to prevent distortion.
3. When holding the sides of the upper chassis, do not apply excessive force to prevent distortion. (Approx. 8N or less)

Handling OK



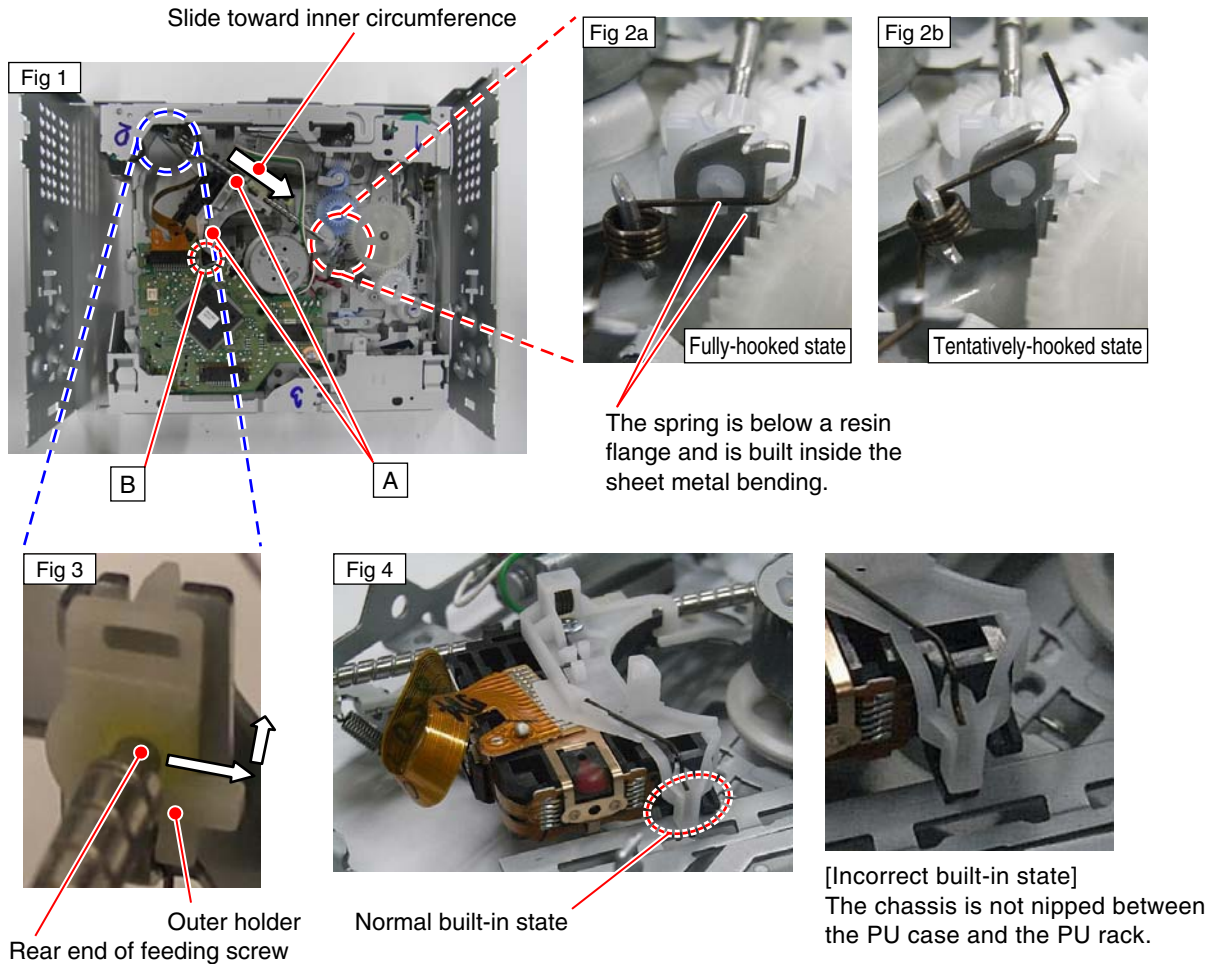
Handling NG



● How to remove the PU unit

1. Create an empty-clamp state according to "How to create empty clamp state (motor drive)".
2. Hook the feeding screw biasing spring to a tentative hooking portion (Fig 2b). Be careful not to get injured by the spring edge.
3. Hold the PU at the position A as shown in Fig 1. Slide the PU as far as possible toward the holder in the feeding screw so that a joint on the outer end of the feeding screw is loosened.
4. As shown in Fig 3, move the rear end of the feeding screw laterally and then upward, to remove it from the outer holder.
5. Lift the PU unit to disengage it from Part B of the chassis (Fig 4), and remove the PU unit.

(Cautions) When re-installing the PU, be sure to first nip the chassis and the PU unit (Fig 4) at the position B. Also, make sure to fully hook the feeding screw biasing spring (Fig 2a). Please follow the service manual for adjustment of the PU unit after the re-installation.



8. EACH SETTING AND ADJUSTMENT

8.1 CD ADJUSTMENT

1) Cautions on adjustments

- In this product the single voltage (3.3 V) is used for the regulator. The reference voltage is the REFO1 (1.65 V) instead of the GND.

If you should mistakenly short the REFO1 with the GND during adjustment, accurate voltage will not be obtained, and the servo's misoperation will apply excessive shock to the pickup. To avoid such problems:

- a. Do not mix up the REFO1 with the GND when connecting the (-) probe of measuring instruments. Especially on an oscilloscope, avoid connecting the (-) probe for CH1 to the GND.
- b. In many cases, measuring instruments have the same potential as that for the (-) probe. Be sure to set the measuring instruments to the floating state.
- c. If you have mistakenly connected the REFO1 to the GND, turn off the regulator or the power immediately.

- Before mounting and removing filters or leads for adjustment, be sure to turn off the regulator.

- For stable circuit operation, keep the mechanism operating for about one minute or more after the regulator is turned on.

- In the test mode, any software protections will not work. Avoid applying any mechanical or electrical shock to the mechanism during adjustment.

- The RFAGC and RFO signals with a wide frequency range are easy to oscillate. When observing the signals, insert a resistor of 1k ohms in series.

- The load and eject operation is not guaranteed with the mechanism upside down. If the mechanism is blocked due to mistaken eject operation, reset the product or turn off and on the ACC to restore it.

2) Test mode

This mode is used to adjust the CD mechanism module.

- To enter the test mode.
[4] + [6] -> BUP + ACC ON

- To exit from the test mode.
Turn off the ACC and back up.

Notes:

- a. During ejection, do not press any other keys than the EJECT key until the loaded disc is ejected.
- b. If you have pressed the (→) key or (←) key during focus search, turn off the power immediately to protect the actuator from damage caused by the lens stuck.
- c. For the TR jump modes except 100TR, the track jump operation will continue even if the key is released.
- d. For the CRG move and 100TR jump modes, the tracking loop will be closed at the same time when the key is released.
- e. When the power is turned off and on, the jump mode is reset to the single TR (91), the RF amp gain is set to 0 dB, and the auto-adjustment values are reset to the default settings.

8.2 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT



• **Note :**

The grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

• **Purpose :**

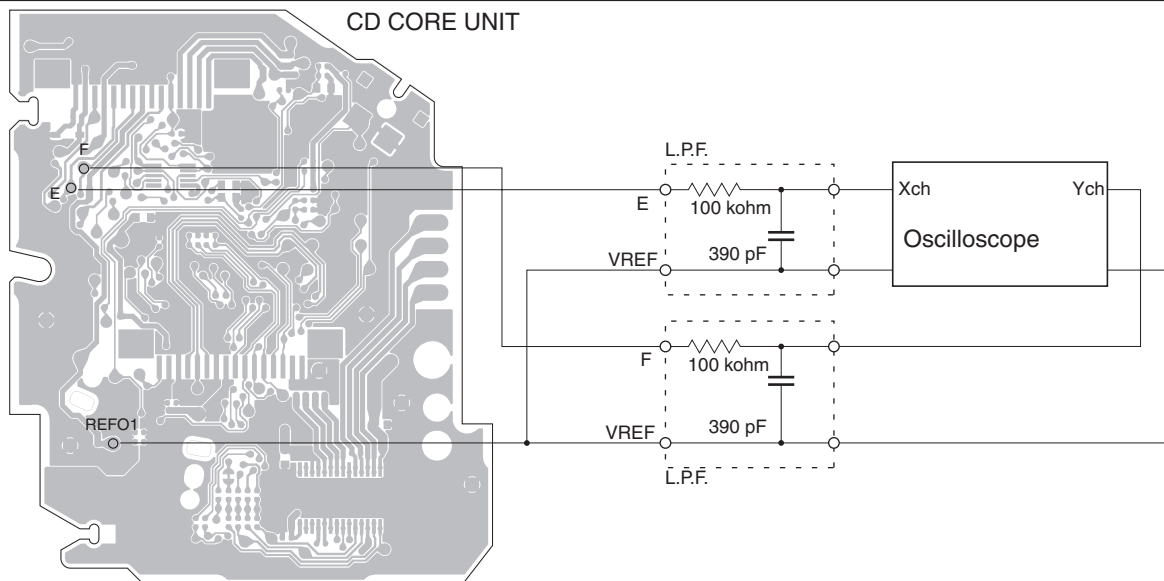
To check that the grating is within an acceptable range when the PU unit is changed.

• **Symptoms of Mal-adjustment :**

If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or taking a long time for track searching.

• **Method :**

- | | |
|-----------------------|----------------------------|
| • Measuring Equipment | • Oscilloscope, Two L.P.F. |
| • Measuring Points | • E, F, REFO1 |
| • Disc | • TCD-782 |
| • Mode | • TEST MODE |



• **Checking Procedure**

1. In test mode, load the disc and switch the 3 V regulator on.
2. Using the right and left buttons, move the PU unit to the innermost track.
3. Press key 3 to close focus, the display should read "91". Press key 2 to implement the tracking balance adjustment the display should now read "81". Press key 3. The display will change, returning to "81" on the fourth press.
4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75° . Refer to the photographs supplied to determine the phase angle.
5. If the phase difference is determined to be greater than 75° try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75° then the mechanism should be judged to be at fault.

• **Note**

Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

• **Hint**

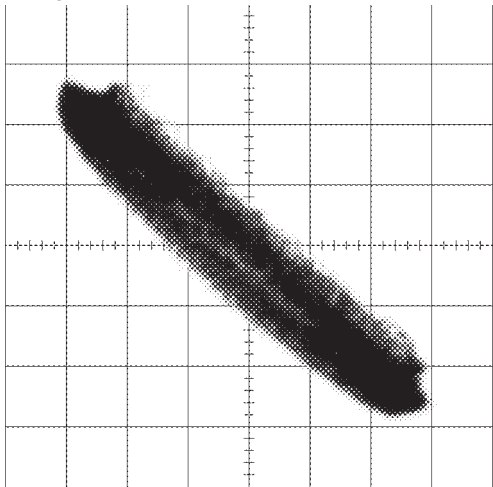
Reloading the disc changes the clamp position and may decrease the "wobble".

Grating waveform

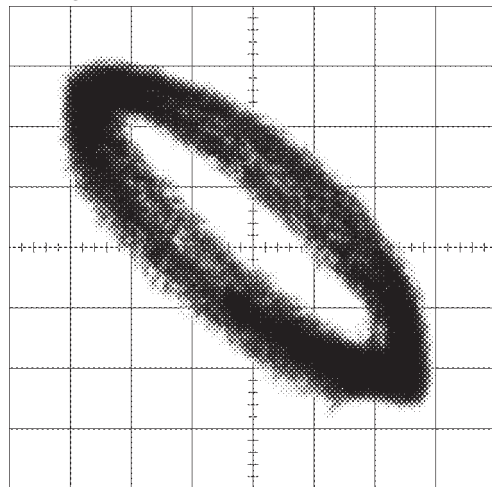
Ech -> Xch 20 mV/div, AC
Fch -> Ych 20 mV/div, AC

A

0 degrees

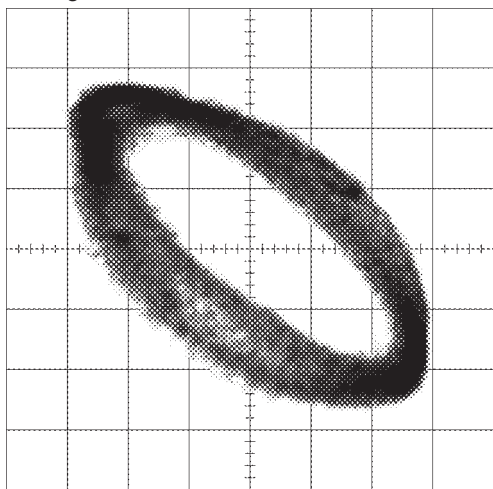


30 degrees

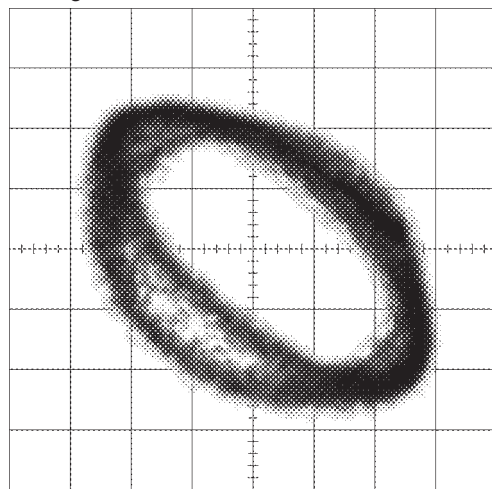


B

45 degrees



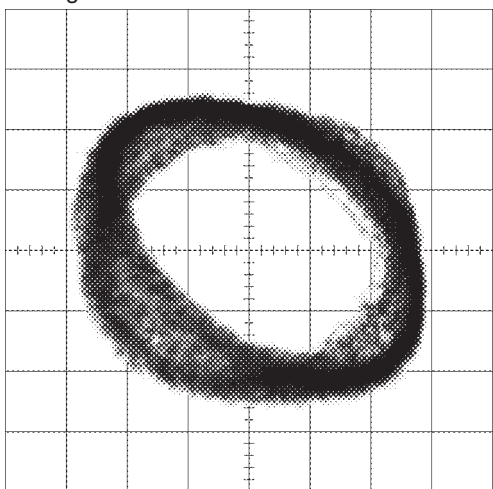
60 degrees



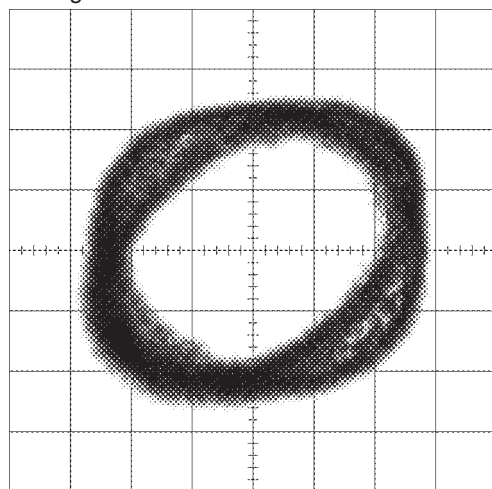
C

D

75 degrees



90 degrees



E

F

8.3 PCL OUTPUT CONFIRMATION





● PCL output

With the TESTIN (22 pin) status of IC601 to be “H”, it is shifted to PCL Output Test mode after reset started. Check that square wave of 600.0 kHz is output from PCL (8 Pin) of IC601. If clock signal is out of this range, this resonator (X602) must be changed for a new one.

9. EXPLODED VIEWS AND PARTS LIST

NOTES : • Parts marked by " * " are generally unavailable because they are not in our Master Spare Parts List.

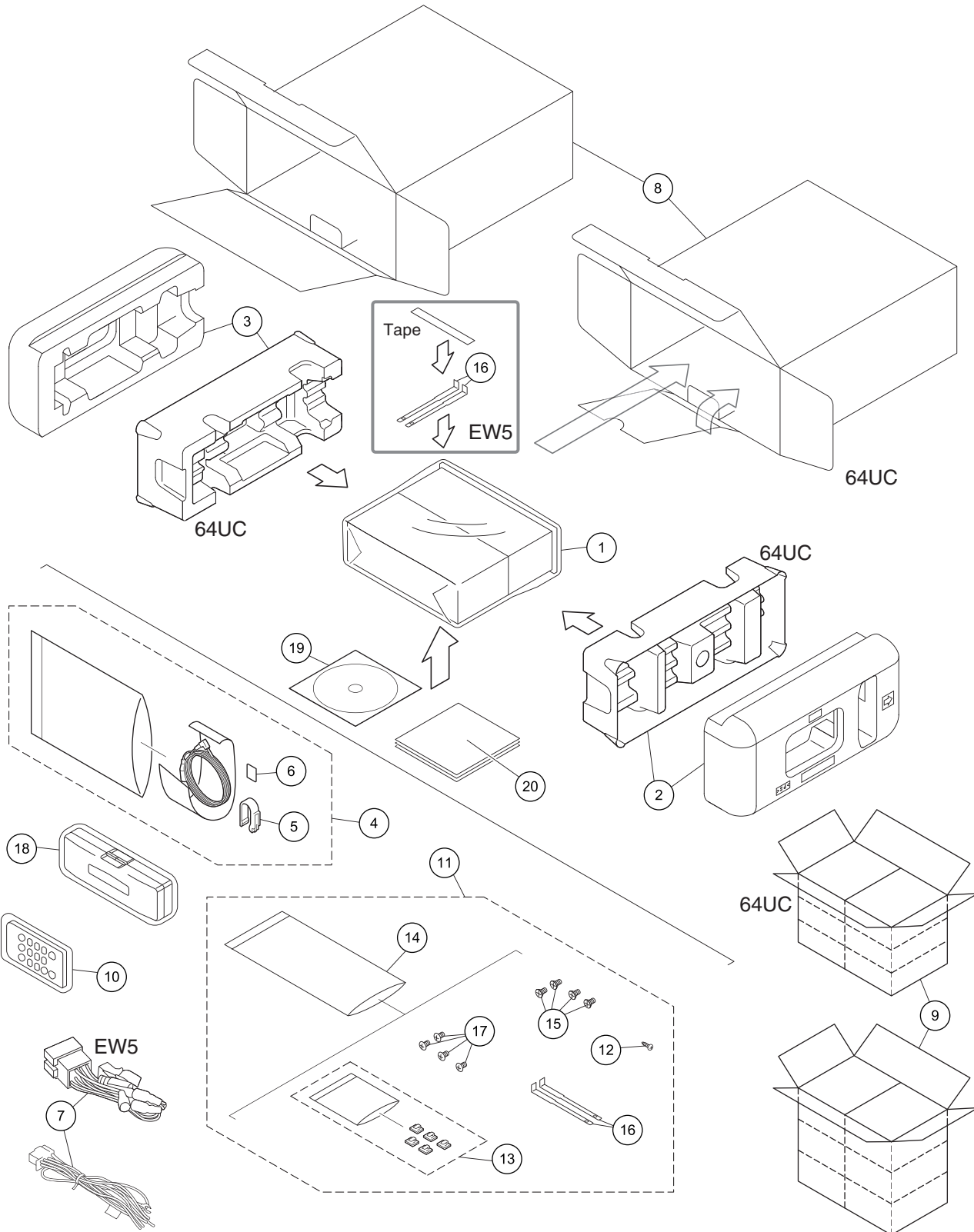
• The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

• Screw adjacent to  mark on the product are used for disassembly.

• For the applying amount of lubricants or glue, follow the instructions in this manual.

(In the case of no amount instructions, apply as you think it appropriate.)

9.1 PACKING



PACKING SECTION PARTS LIST

Mark	No.	Description	DEH-64BT/ XNUC	DEH-6400BT/ XNUC	DEH-5400BT/ XNUC	DEH-4400BT/ XNEW5	DEH-4450BT/ XNES	DEH-4490BT/ XNID
	1	Polyethylene Bag	CEG1173	CEG1173	CEG1173	QEG3001	QEG3001	QEG3001
	2	Protector	CHP4103	QHP3016	QHP3016	QHP3016	QHP3016	QHP3016
	3	Protector	CHP4104	QHP3016	QHP3016	QHP3016	QHP3016	QHP3016
	4	Microphone Assy	CPM1083	CPM1083	CPM1083	CPM1083	CPM1083	CPM1083
	5	Holder	CZN7192	CZN7192	CZN7192	CZN7192	CZN7192	CZN7192
	6	Cushion	CZN7193	CZN7193	CZN7193	CZN7193	CZN7193	CZN7193
	7	Cord Assy	QDP3013	QDP3013	QDP3013	QDP3014	QDP3013	QDP3013
	8	Unit Box	QHG3136	QHG3135	QHG3134	QHG3132	QHG3133	QHG3137
	9	Contain Box	QHL3136	QHL3135	QHL3134	QHL3132	QHL3133	QHL3137
	10	Card type RC Unit	QXE1044	QXE1044	QXE1044	Not used	QXE1044	QXE1044
*	11	Accessory Assy	YEA5100	YEA5100	YEA5100	Not used	YEA5099	YEA5099
	12	Screw	BPZ20P060FTC	BPZ20P060FTC	BPZ20P060FTC	Not used	Not used	Not used
	13	Attachment Assy	CEA4636	CEA4636	CEA4636	CEA4636	CEA4636	CEA4636
	14	Polyethylene Bag	CEG1160	CEG1160	CEG1160	Not used	CEG1160	CEG1160
	15	Screw	CRZ50P090FTC	CRZ50P090FTC	CRZ50P090FTC	Not used	Not used	Not used
	16	Handle	QNC3021	QNC3021	QNC3021	QNC3021	QNC3021	QNC3021
	17	Screw	TRZ50P080FTC	TRZ50P080FTC	TRZ50P080FTC	Not used	TRZ50P080FTC	TRZ50P080FTC
	18	Case Assy	Not used	Not used	Not used	QXA3129	QXA3129	QXA3129
	19	IM CD-ROM	Not used	Not used	Not used	QPJ3009	Not used	Not used
	20-1	Owner's Manual	QRD3096	QRD3096	QRD3096	Not used	QRD3097	QRB3193
	20-2	Quick Start Guide	Not used	Not used	Not used	QRD3094	Not used	Not used
	20-3	Installation Manual	Not used	Not used	Not used	QRD3095	Not used	Not used
*	20-4	Warranty Card	QRY3001	QRY3001	QRY3001	CRY1316	Not used	CRY1304
*	20-5	Caution Card	Not used	Not used	Not used	QRP3009	Not used	Not used
*	20-6	Service Network	Not used	Not used	Not used	Not used	Not used	CRY1305

Owner's Manual, Installation Manual

Part No.	Language
QRD3096	English, French, Spanish(Espanol)
QRD3094	English, French, Italian, Spanish(Espanol), German ,Dutch, Russian
QRD3095	English, French, Italian, Spanish(Espanol), German ,Dutch, Russian
QRD3097	English, Spanish(Espanol), Portuguese(B), Arabic, Persian, Traditional Chinese
QRB3193	English
QRB3194	Portuguese(B)

CONTENTS OF CD-ROM (Operation Manual), QPJ3009

Part No.	Language
* QRB3179	English
* QRB3180	French
* QRB3181	Italian
* QRB3182	Spanish(Espanol)
* QRB3183	German
* QRB3184	Dutch
* QRB3185	Russian
* QRB3186	Swedish
* QRB3187	Norwegian
* QRB3188	Finnish
* QRB3189	Danish
* QRB3190	Portuguese
* QRB3191	Greek
* QRB3192	Turkish

All operation manuals are supplied in PDF files by the CD-ROM.
Regarding the availability of paper manual, contact Pioneer Service representative in your region.

(1) EXTERIOR SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	Screw	ASZ26P050FTC	⚠ 26	Fuse(10 A)	YEK5001	
2	Screw	BSZ26P060FTC	27	Detach Grille Assy	See Contrast table (2)	
3	Screw	BSZ26P080FTC	28	Screw	BPZ20P100FTC	
4	Screw	BSZ26P120FTC	29	Spring	CBH2210	
*	5	Seal	See Contrast table (2)	30	Sheet	See Contrast table (2)
6	Spring	QBH3001	31	Knob Unit	CXE3692	
7	Cover	QNM3029	32	Spring	YBL5010	
8	Panel	QNS3126	33	Button(EJECT)	QAC3066	
9	Arm	QNV3025	34	Button(LIST, SRC, PHONE, RETURN, BAND)	QAC3067	
10	Button	QNV3026	35	Button(LEFT)	QAC3068	
11	CD Mechanism Module(S11.6)	CXK5804	36	Button(RIGHT)	QAC3069	
12	Cable	QDE3020	37	Button(1-6, -)	QAC3070	
13	Cable	QDE3021	38	Button(DETACH)	QAC3071	
14	Cord Assy	See Contrast table (2)	39	Cover	QNS3226	
15	Case	QNB3003	40	Lighting Conductor	See Contrast table (2)	
16	Holder	QNC3020	41	Contact Rubber	QNV3041	
17	Panel	QNS3127	42	Segment LCD(V1801)	CAW2017	
18	BT Unit	QWM3365	43	Holder	QNC3031	
19	BT Module	CWX4123	44	Lighting Conductor	QNV3040	
20	Tuner Amp Assy	See Contrast table (2)	45	Rubber Connector	QNV3045	
21	Screw	BPZ26P080FTC	46	Grille Unit	See Contrast table (2)	
22	Screw	BSZ26P060FTC	47	Door	QAT3004	
23	Screw	BSZ26P120FTC	48	Card type RC Unit	See Contrast table (2)	
24	Holder	QNC3036	49	Cover	See Contrast table (2)	
25	Heat Sink	QNR3002	50	Label	See Contrast table (2)	

(2) CONTRAST TABLE

DEH-64BT/XNUC, DEH-6400BT/XNUC, DEH-5400BT/XNUC, DEH-4400BT/XNEW5, DEH-4450BT/XNES and DEH-4490BT/XNID are constructed the same except for the following:

<u>Mark</u>	<u>No.</u>	<u>Description</u>	<u>DEH-64BT/ XNUC</u>	<u>DEH-6400BT/ XNUC</u>	<u>DEH-5400BT/ XNUC</u>	<u>DEH-4400BT/ XNEW5</u>	<u>DEH-4450BT/ XNES</u>	<u>DEH-4490BT/ XNID</u>
*	5	Seal	CAN3984	Not used	CAN3984	Not used	Not used	Not used
	14	Cord Assy	QDP3013	QDP3013	QDP3013	QDP3014	QDP3013	QDP3013
	20	Tuner Amp Assy	QWM3362	QWM3300 (Tuner Amp Unit)	QWM3299 (Tuner Amp Unit)	QWM3298 (Tuner Amp Unit)	QWM3301 (Tuner Amp Unit)	QWM3302 (Tuner Amp Unit)
	27	Detach Grille Assy	QXA3468	QXA3467	QXA3466	QXA3465	QXA3469	QXA3470
	30	Sheet	CNN3494	CNN3494	Not used	Not used	Not used	Not used
	40	Lighting Conductor	QNV3039	QNV3039	QNV3038	QNV3038	QNV3038	QNV3038
	46	Grille Unit	QXA3418	QXA3417	QXA3416	QXA3415	QXA3419	QXA3420
	48	Card type RC Unit	QXE1044	QXE1044	QXE1044	Not used	QXE1044	QXE1044
	49	Cover	CNS7068	CNS7068	CNS7068	Not used	CNS7068	CNS7068
	50	Label	Not used	Not used	Not used	Not used	Not used	CNN3533

9.3 CD MECHANISM MODULE

A

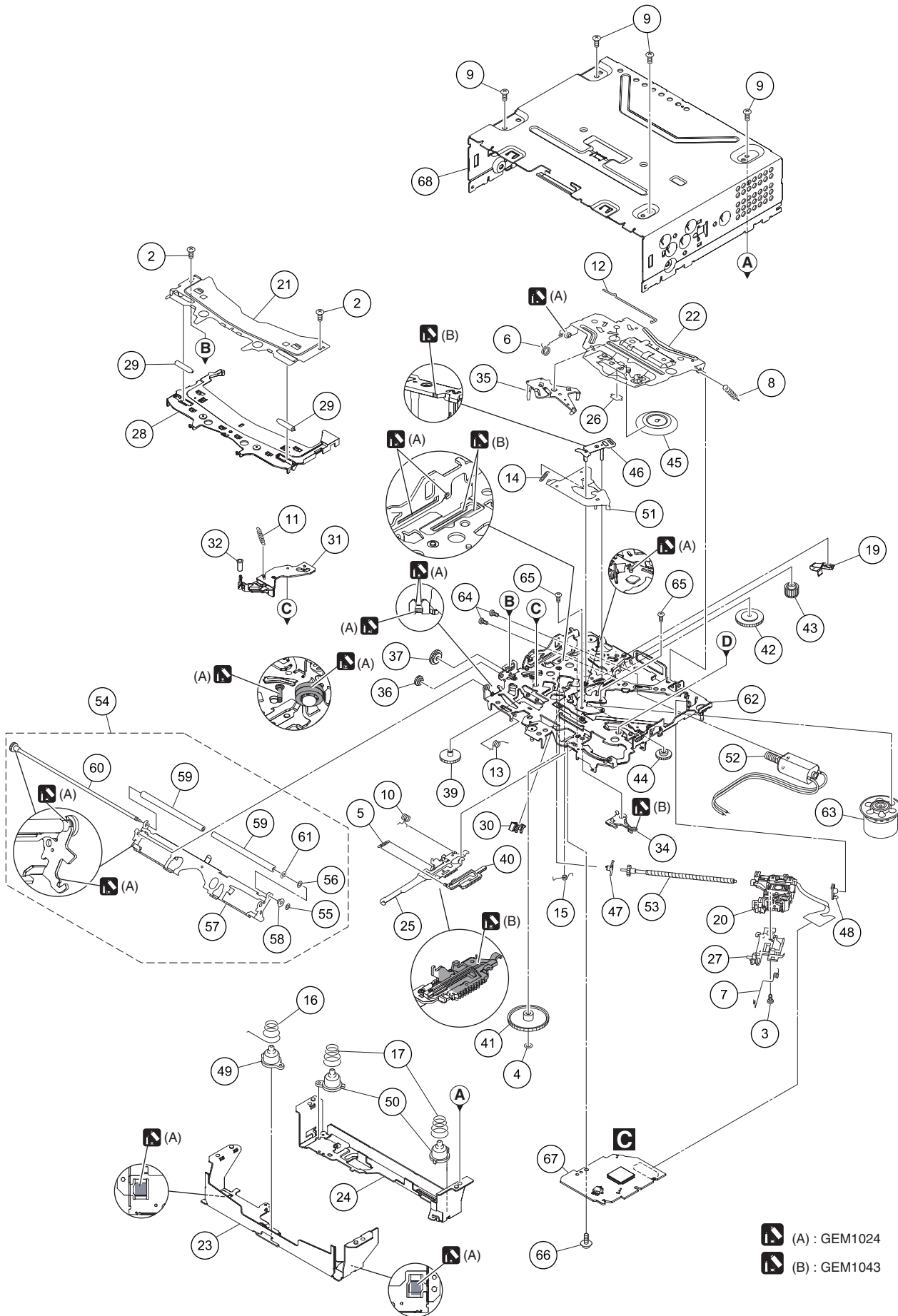
B

C

D

E

F



(A) : GEM1024
 (B) : GEM1043

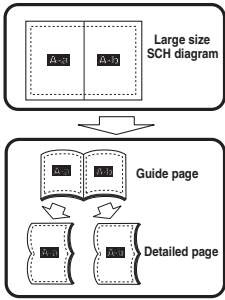
CD MECHANISM MODULE SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	.....		50	Damper	CNW1198
2	Screw	BSZ20P040FTC	51	Arm	CNW1726
3	Screw(M2 x 4)	CBA1835	52	Motor Unit(M2)(LOAD/CRG)	CXC4026
4	Washer	CBF1038	53	Screw Unit	CXC8894
5	Spring	CBH3010	54	Arm Assy	CXE5027
6	Spring	CBH2855	55	Washer	CBF1037
7	Spring	CBH2856	56	Washer	CBF1038
8	Spring	CBH2860	57	Arm	CND6242
9	Screw	BSZ26P060FTC	58	Collar	CNW2444
10	Spring	CBH3011	59	Roller	CNW1196
11	Coil Spring	CBH3095	60	Gear Unit	CXC8893
12	Spring	CBH3014	61	Washer	YE15FTC
13	Spring	CBH3015	62	Chassis Unit	CXE4528
14	Spring	CBH3016	63	Motor Unit(M1)(SPDL)	CXE2273
15	Spring	CBH3017	64	Screw	JFZ20P025FTC
16	Spring	CBH3086	65	Screw	JGZ17P022FTC
17	Spring	CBH3019	66	Screw	EBA1028
18	.....		67	CD Core Unit (S11.6STD)	CWX4023
19	Leaf Spring	CBL1824	68	Chassis	CNA3181
20	Pickup Unit(P10.6)(Service)	CXX3556			
21	Bracket	CND4553			
22	Arm	CND4555			
23	Bracket	CND6127			
24	Bracket	CND5710			
25	Lever	CND5398			
26	Sheet	CNN3678			
27	Rack	CNV8342			
28	Guide	CNW2240			
29	Roller	CNW1172			
30	Holder	CNW1195			
31	Arm	CNW2241			
32	Roller	CNW1175			
33	.....			
34	Arm	CNW1177			
35	Arm	CNW1178			
36	Gear	CNW1180			
37	Gear	CNW1181			
38	.....			
39	Gear	CNW1183			
40	Rack	CNW1184			
41	Gear	CNW1185			
42	Gear	CNW1186			
43	Gear	CNW1187			
44	Gear	CNW2287			
45	Clamper	CNW1190			
46	Arm	CNW1192			
47	Holder	CNW1193			
48	Holder	CNW1194			
49	Damper	CNW1197			

10. SCHEMATIC DIAGRAM

10.1 TUNER AMP UNIT (GUIDE PAGE)

Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".



B

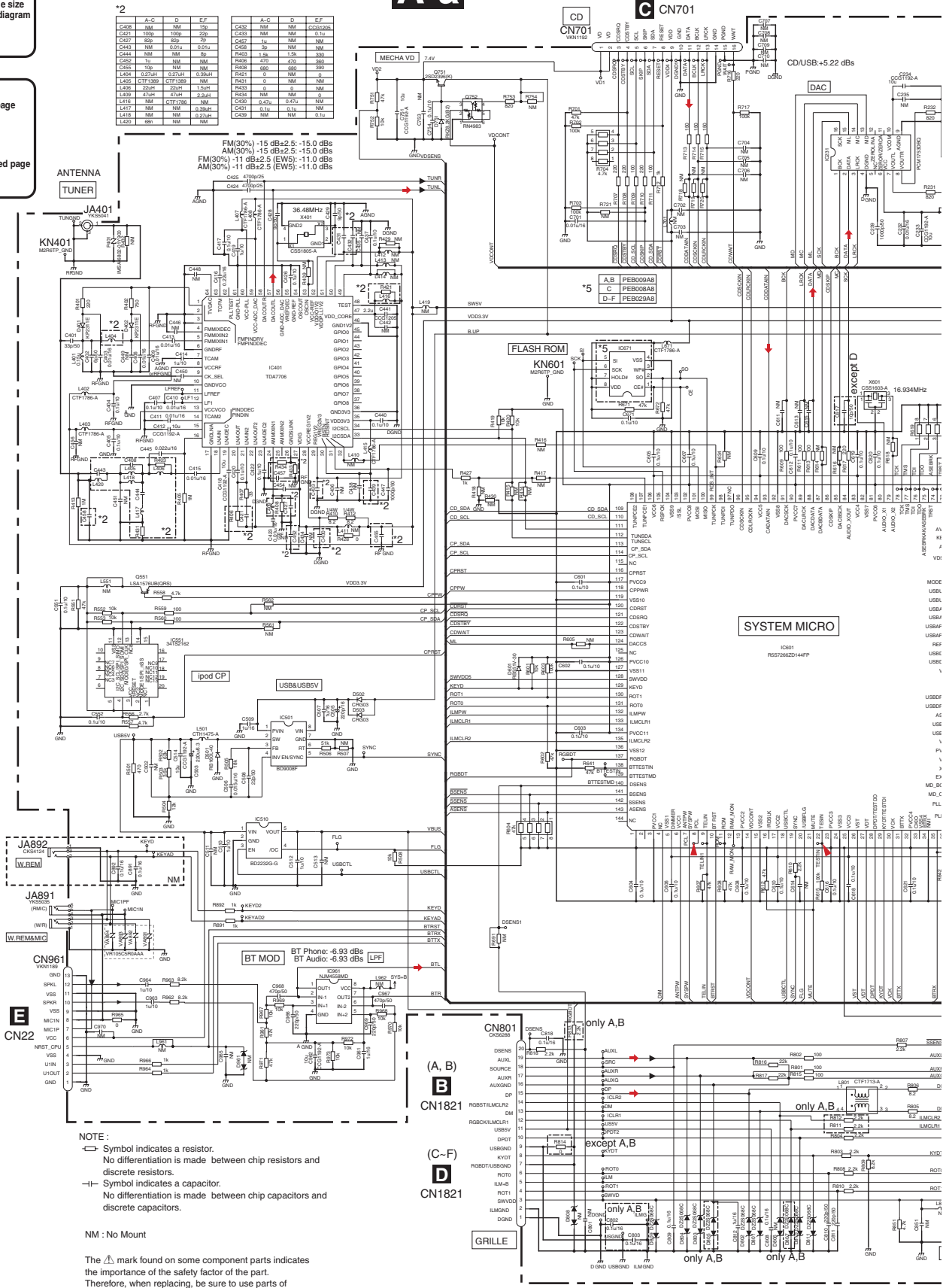
C

D

E

F

A-a



*2				*3			
A-C	D	E-F		A-C	D	E-F	
C400	NM	NM	150	C432	NM	NM	100000000
C421	1000	1000	500	C433	NM	NM	0.1u
C427	500	500	500	C437	1u	NM	NM
C443	NM	0.01u	0.01u	C438	1u	NM	NM
C445	NM	NM	50	F403	1.5L	1.5L	330
C452	1u	NM	NM	F408	470	470	300
C455	10u	NM	NM	F408	680	680	300
L400	330uH	0.22mH	1.5mH	F409	0	NM	NM
L402	CTF1389	CTF1389	NM	R431	0	NM	NM
L403	220uH	220uH	1.5mH	R432	0	NM	NM
L409	47uH	47uH	2.2uH	R434	NM	NM	NM
L416	NM	CTF1706	NM	C430	0.47u	0.47u	NM
L417	NM	NM	5.8mH	C431	0.1u	0.1u	NM
L419	NM	NM	5.2uH	C439	NM	NM	0.1u
L421	NM	NM	NM				

FM(30%) -15 dB±2.5 -15.0 dBs
 AM(30%) -15 dB±2.5 -15.0 dBs
 FM(30%) -11 dB±2.5 (EWS) -11.0 dBs
 AM(30%) -11 dB±2.5 (EWS) -11.0 dBs

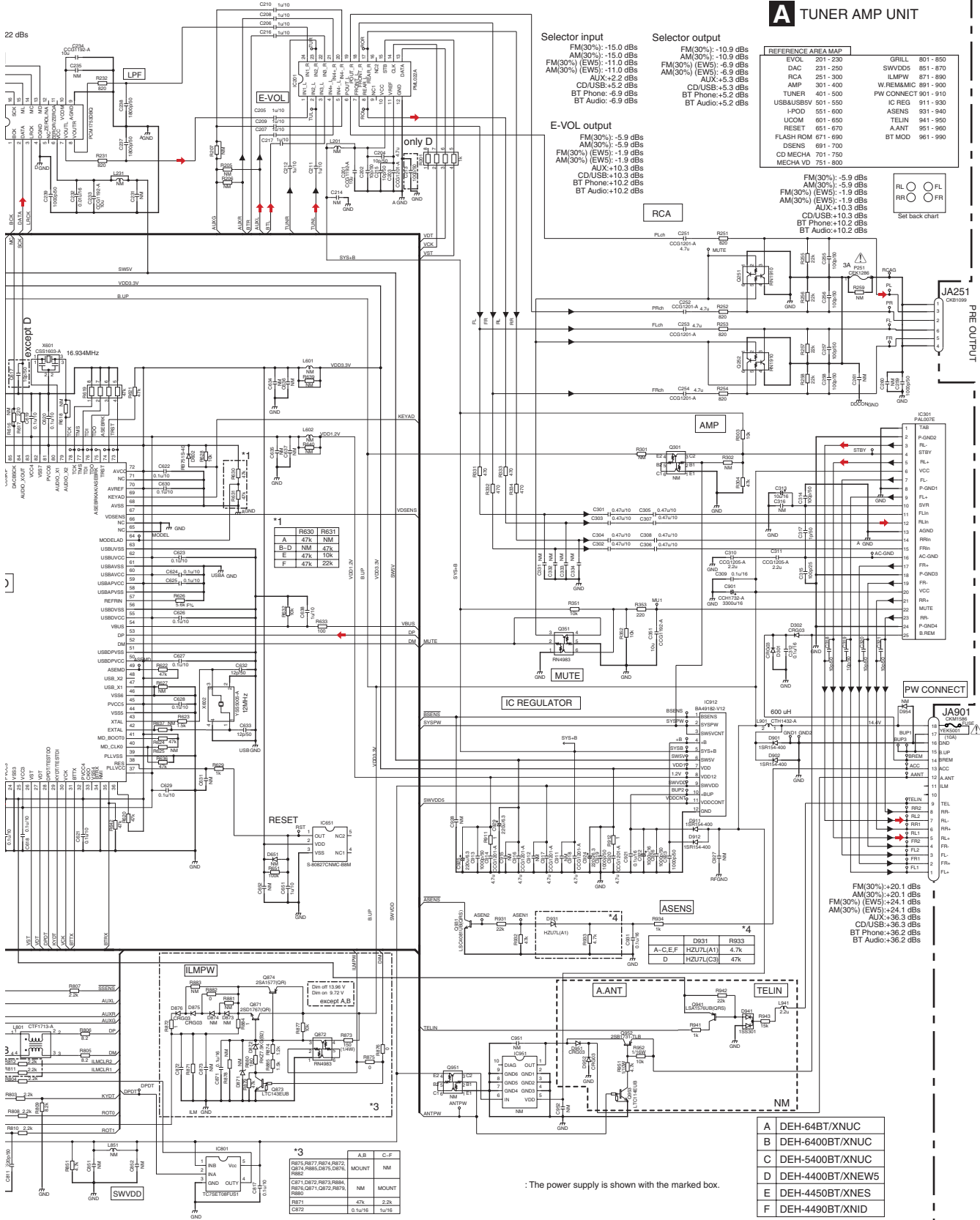
NOTE:
 □ Symbol indicates a resistor.
 No differentiation is made between chip resistors and discrete resistors.
 □ Symbol indicates a capacitor.
 No differentiation is made between chip capacitors and discrete capacitors.

NM : No Mount

The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

A-b

A TUNER AMP UNIT



The power supply is shown with the marked box.

A-b

A

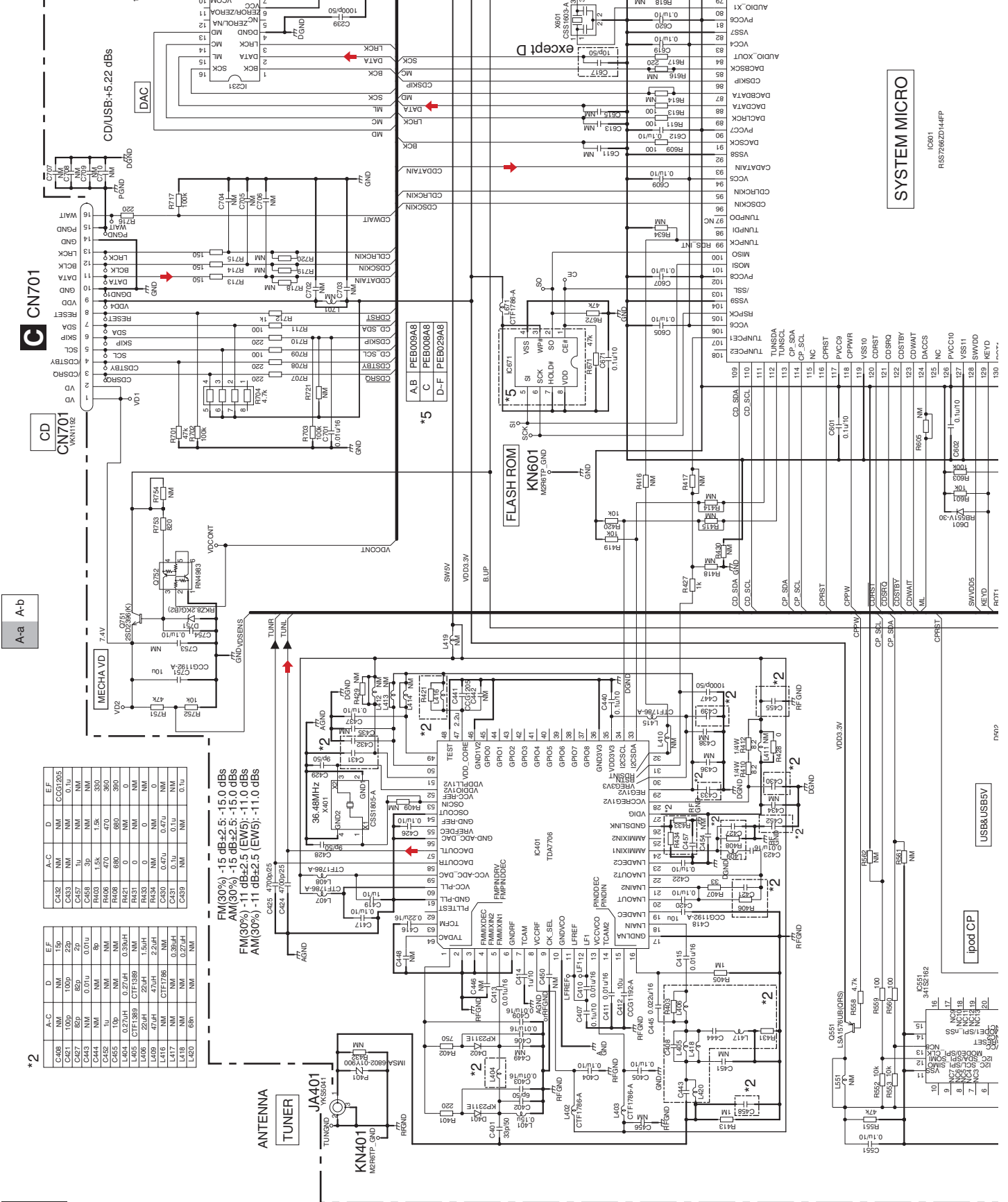
B

C

D

E

F



***2**

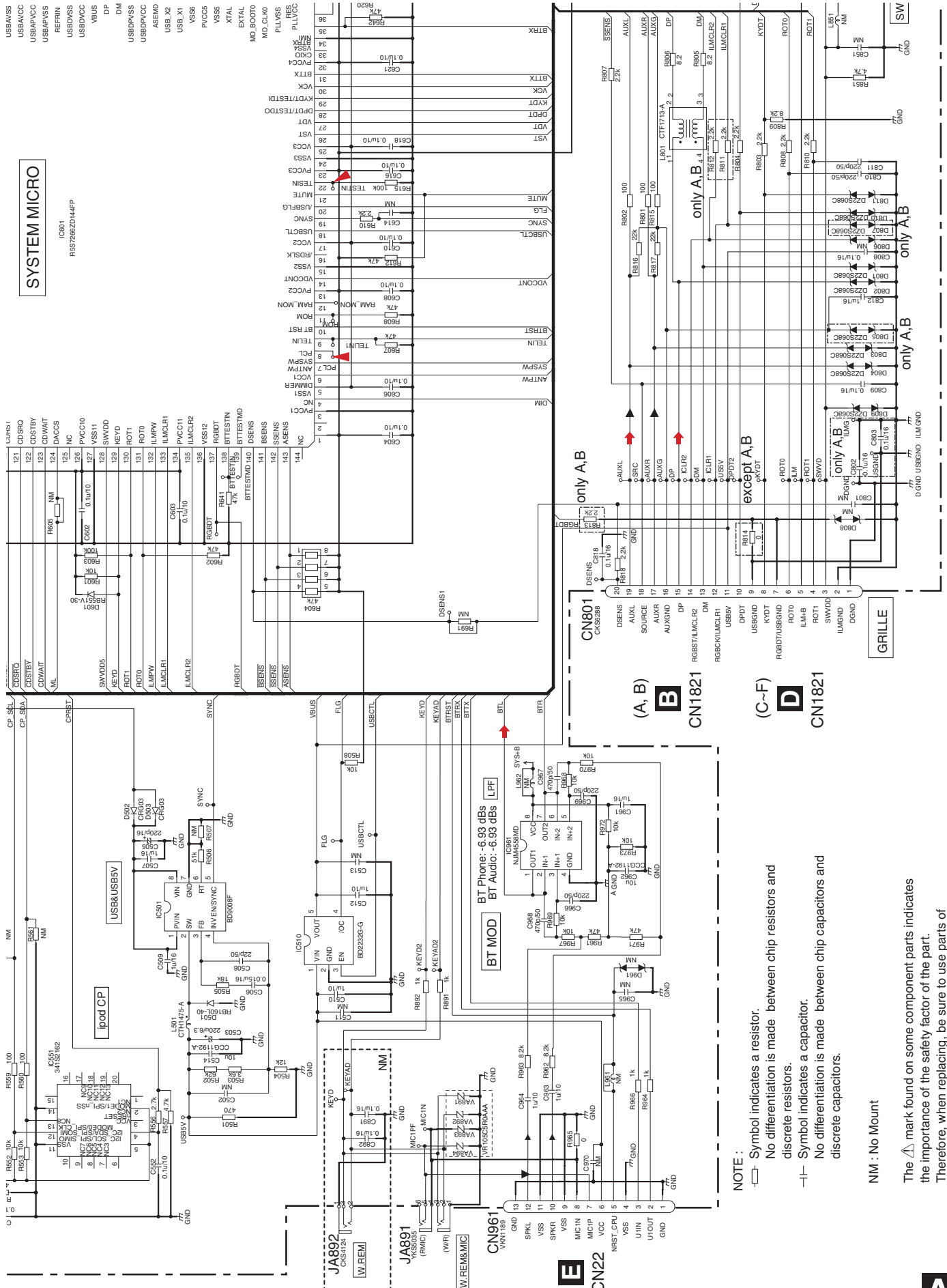
A-C	D	E-F
C408	NM	NM
C421	100p	22p
C427	NM	NM
C433	NM	NM
C434	NM	NM
C435	0.01u	NM
C436	NM	NM
C437	NM	NM
C438	1.5k	330
C439	NM	NM
C440	470	330
C441	NM	NM
C442	10k	330
C443	NM	NM
C444	0.22uH	0.33uH
C445	NM	NM
C446	22uH	1.5uH
C447	47uH	2.2uH
C448	NM	NM
C449	NM	NM
C450	0.33uH	NM
C451	0.1u	0.1u
C452	NM	NM
C453	68k	NM

***2**

A-C	D	E-F
C432	NM	NM
C433	NM	NM
C434	NM	NM
C435	3p	NM
C436	1.5k	330
C437	470	330
C438	NM	NM
C439	0	NM
C440	NM	NM
C441	0	NM
C442	NM	NM
C443	NM	NM
C444	NM	NM
C445	0.47u	0.47u
C446	NM	NM
C447	0.1u	0.1u
C448	NM	NM
C449	NM	NM
C450	NM	NM
C451	NM	NM
C452	NM	NM

A-a

A



SYSTEM MICRO

IC901
RS528ZD144P

121	CP_SBL	CP_SBL	121	U1PS1
122	CP_SMA	CP_SMA	122	CSRQ
123	CP_SMT	CP_SMT	123	CSRB
124	CP_SMT	CP_SMT	124	CSBY
125	CP_SMT	CP_SMT	125	CSWAT
126	CP_SMT	CP_SMT	126	CSWAT
127	CP_SMT	CP_SMT	127	CSWAT
128	CP_SMT	CP_SMT	128	CSWAT
129	CP_SMT	CP_SMT	129	CSWAT
130	CP_SMT	CP_SMT	130	CSWAT
131	CP_SMT	CP_SMT	131	CSWAT
132	CP_SMT	CP_SMT	132	CSWAT
133	CP_SMT	CP_SMT	133	CSWAT
134	CP_SMT	CP_SMT	134	CSWAT
135	CP_SMT	CP_SMT	135	CSWAT
136	CP_SMT	CP_SMT	136	CSWAT
137	CP_SMT	CP_SMT	137	CSWAT
138	CP_SMT	CP_SMT	138	CSWAT
139	CP_SMT	CP_SMT	139	CSWAT
140	CP_SMT	CP_SMT	140	CSWAT
141	CP_SMT	CP_SMT	141	CSWAT
142	CP_SMT	CP_SMT	142	CSWAT
143	CP_SMT	CP_SMT	143	CSWAT
144	CP_SMT	CP_SMT	144	CSWAT

- NOTE :**
- Symbol indicates a resistor.
 - No differentiation is made between chip resistors and discrete resistors.
 - Symbol indicates a capacitor.
 - No differentiation is made between chip capacitors and discrete capacitors.
- NM : No Mount
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

A-b

A-a A-b

A-a

10.2 KEYBOARD UNIT

A

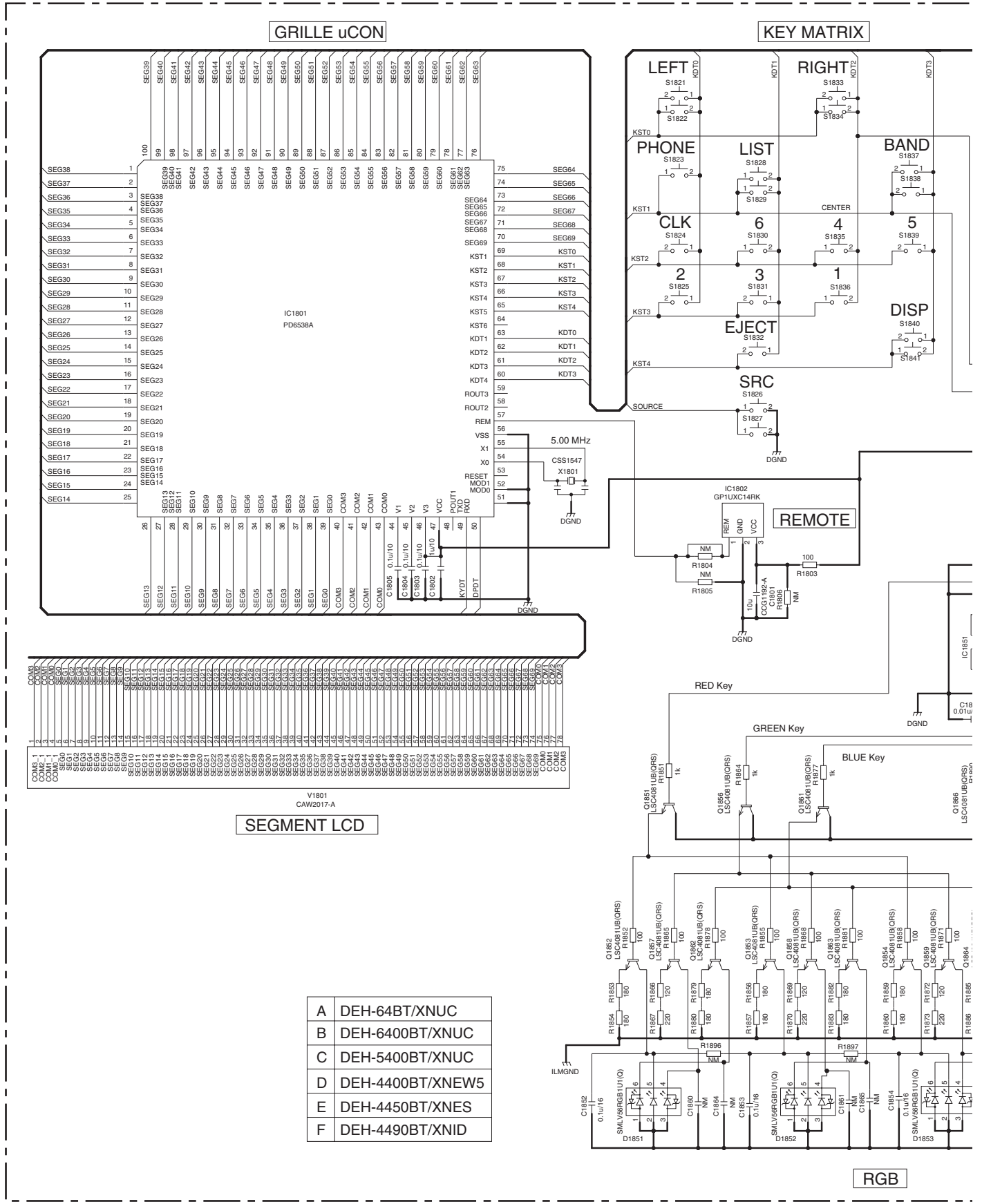
B

C

D

E

F

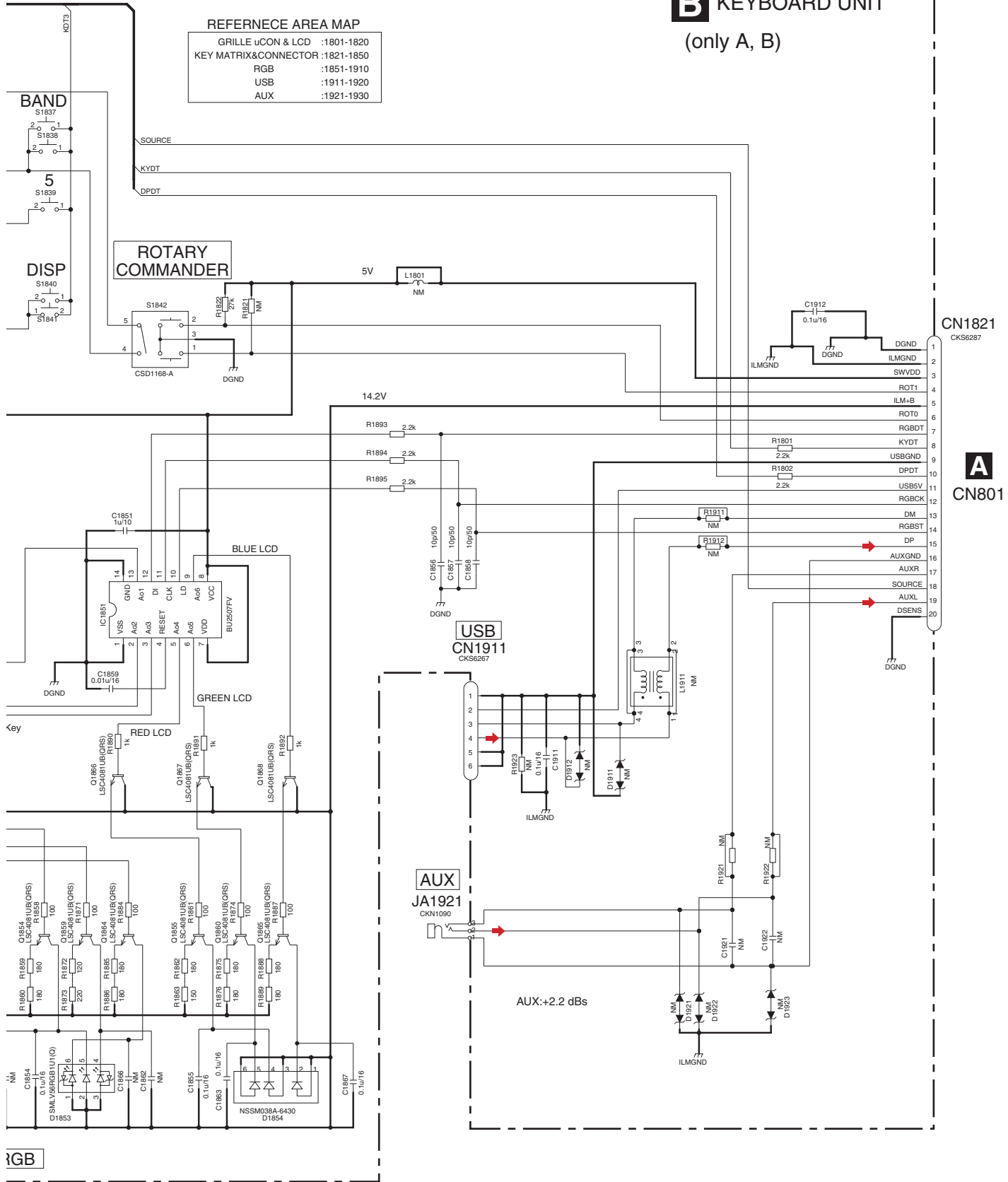


A	DEH-64BT/XNUC
B	DEH-6400BT/XNUC
C	DEH-5400BT/XNUC
D	DEH-4400BT/XNEW5
E	DEH-4450BT/XNES
F	DEH-4490BT/XNID

B KEYBOARD UNIT
(only A, B)

REFERNECE AREA MAP

GRILLE uCON & LCD	:1801-1820
KEY MATRIX&CONNECTOR	:1821-1850
RGB	:1851-1910
USB	:1911-1920
AUX	:1921-1930



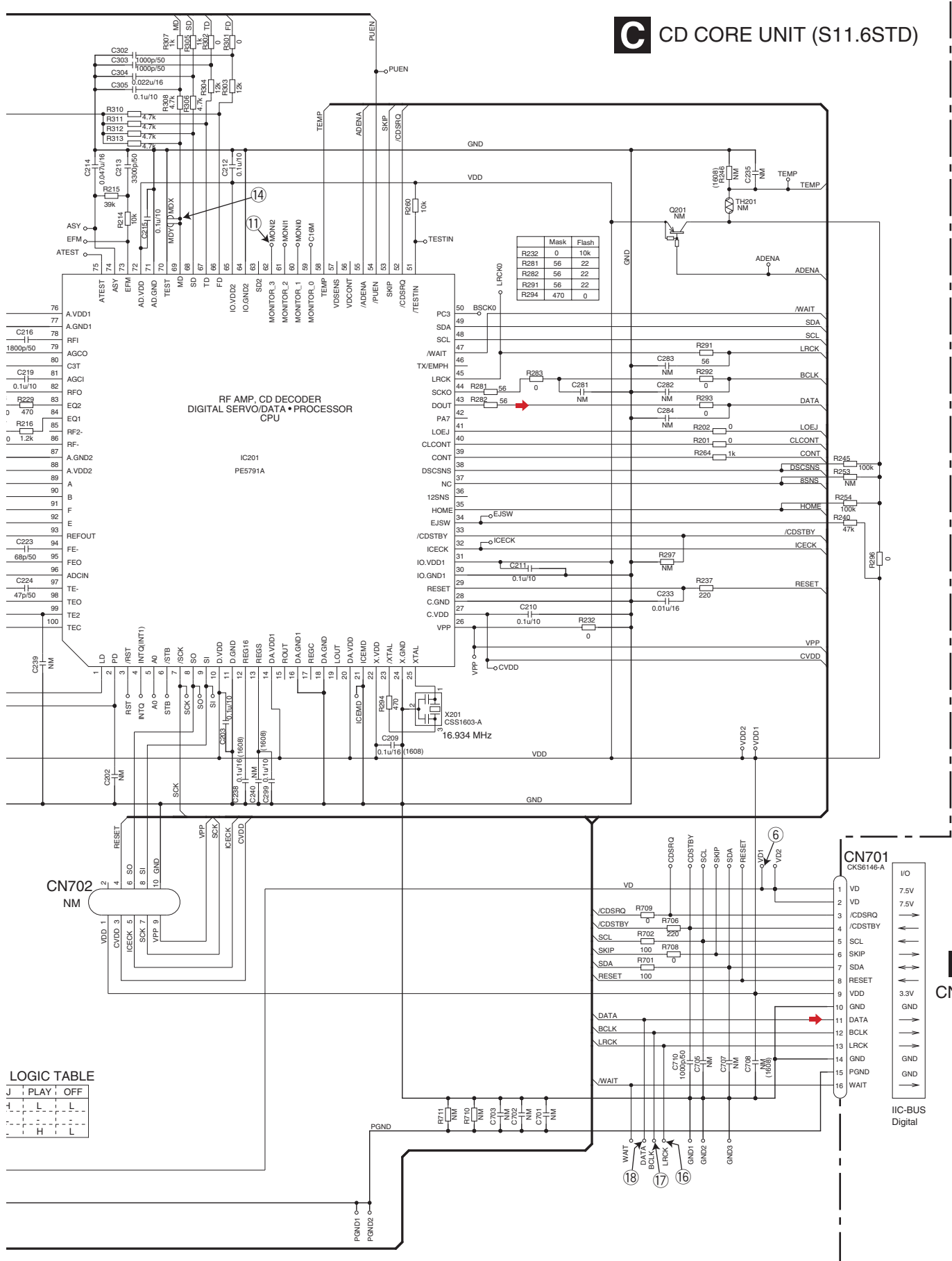
- 1 CN1821
- 2 CKS6287
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20

A CN801

RGB

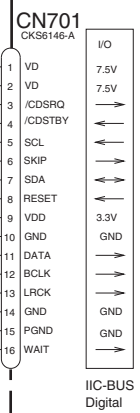
B

C CD CORE UNIT (S11.6STD)



LOGIC TABLE

J	PLAY	OFF
L	L	L
H	H	L



A CN701

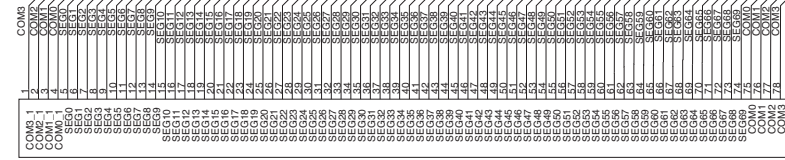
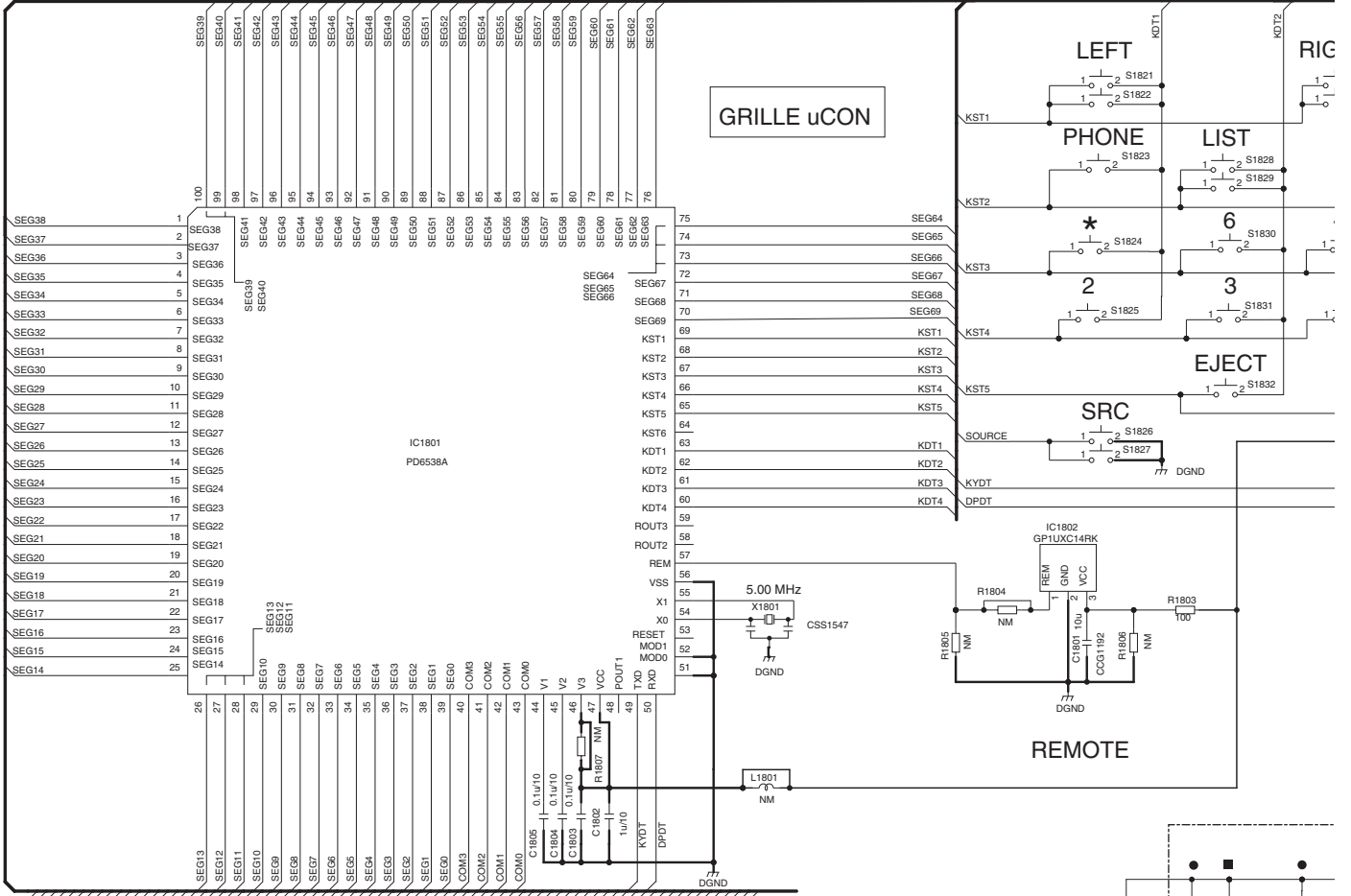
C

10.4 KEYBOARD UNIT

GRILLE uCON&LCD	1801-1820
KEY MATRIX&CONNENCTOR	1821-1850
LED	1851-1910
USB	1911-1920
AUX	1921-1930

* CLOCK	C, E, F
PTY	D

KEY MATI

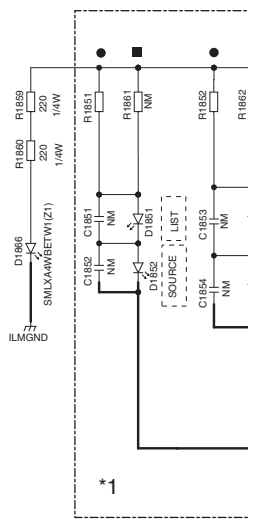


SEGMENT LCD

SYMBOL	SIZE
■	RS1/10SR***J-T
●	RS1/4SA***J-T

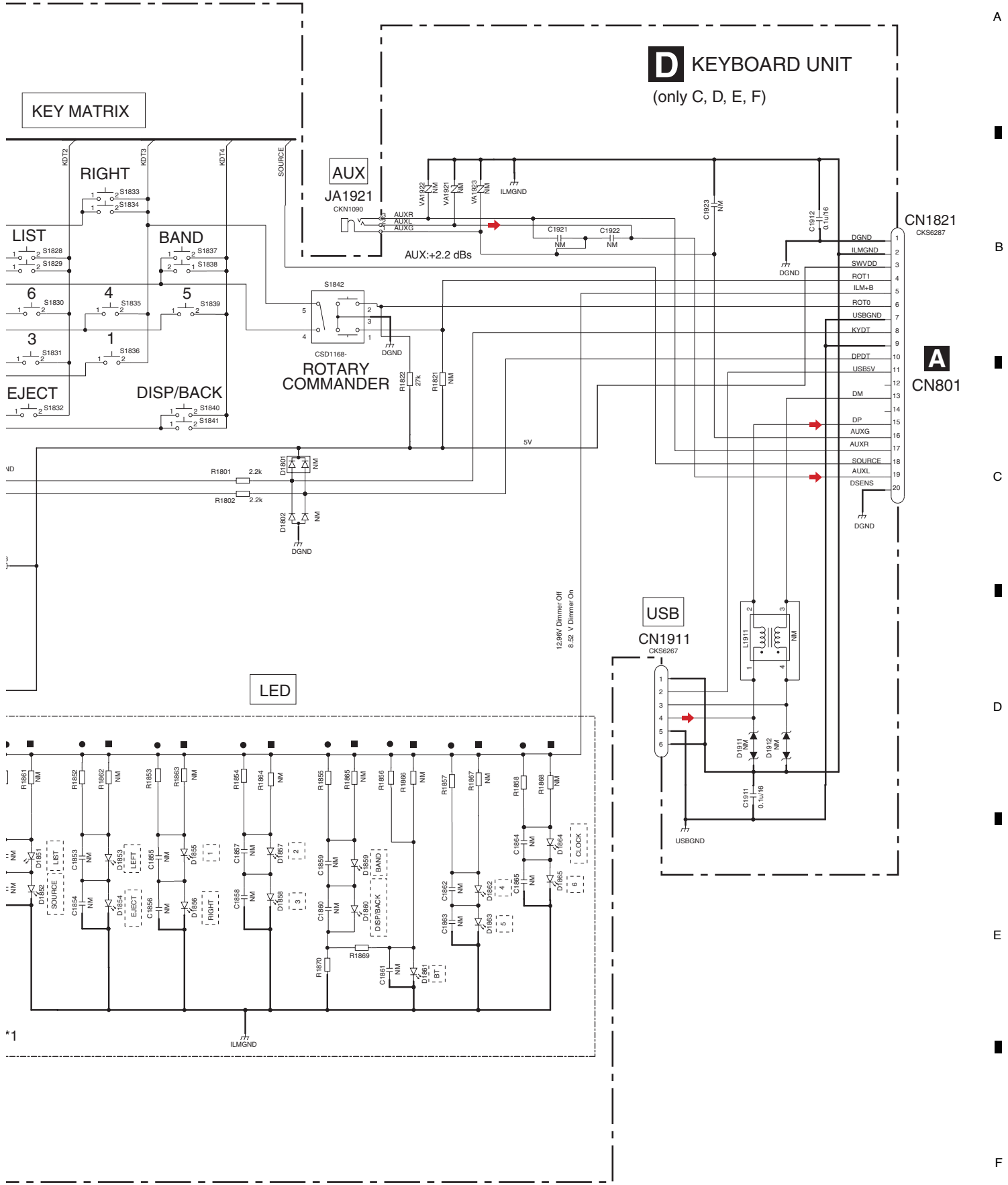
A	DEH-64BT/XNUC
B	DEH-6400BT/XNUC
C	DEH-5400BT/XNUC
D	DEH-4400BT/XNEW5
E	DEH-4450BT/XNES
F	DEH-4490BT/XNID

	C, E, F	D
D1851-D1865	SMLE12BC7T(NP)	SML-D12V8W(PQ)
R1851	470	680
R1852	820	1k
R1853	820	1k
R1854	820	1k
R1855	470	560
R1869	NM	0
R1870	0	NM
R1856	680	NM
R1857	820	1k
R1858	820	1k



D

DEH-64BT/XNUC



D KEYBOARD UNIT
(only C, D, E, F)

CN1821
CKS6267

A
CN801

USB
CN1911
CKS6267

10.5 BT UNIT

A

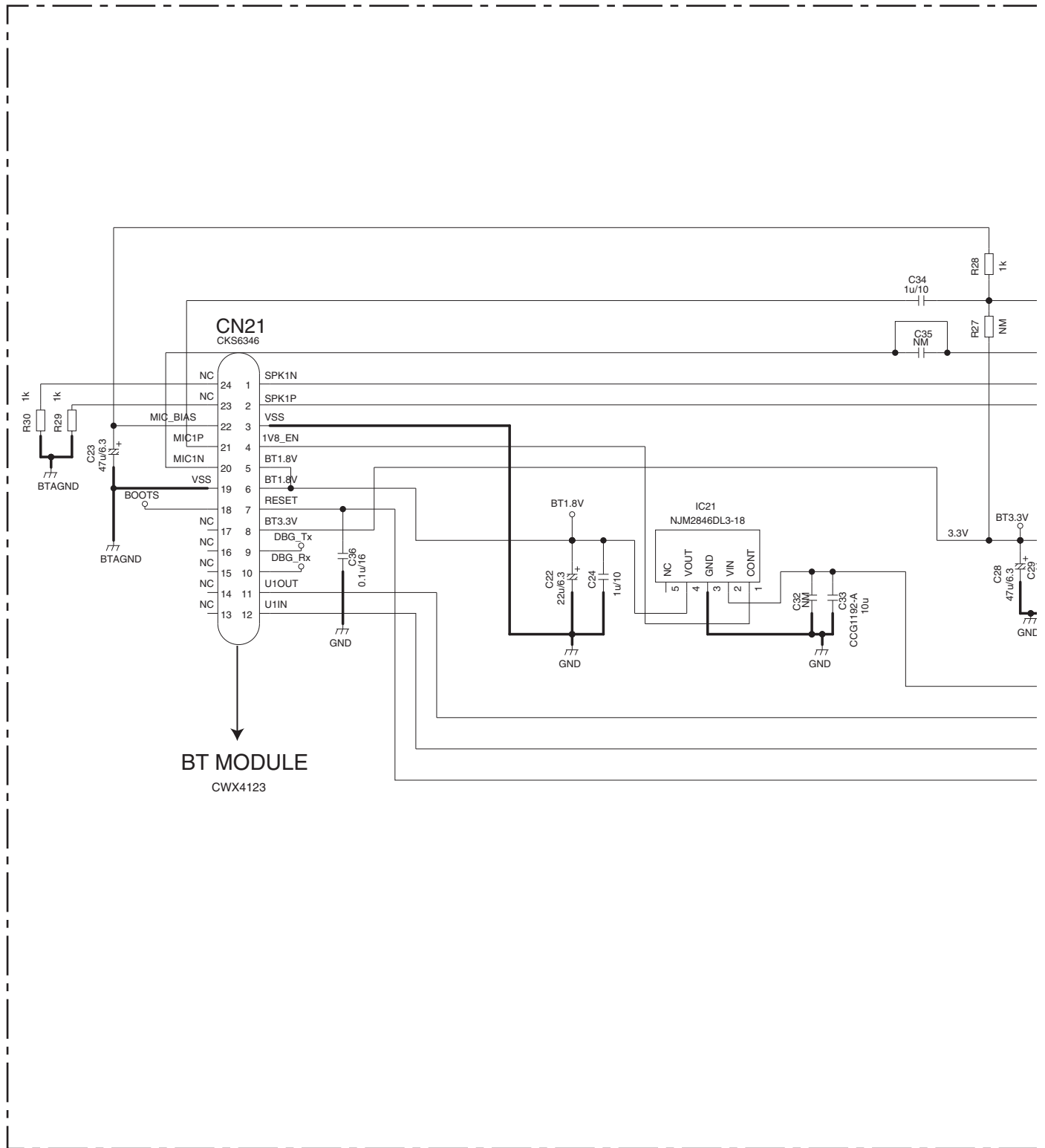
B

C

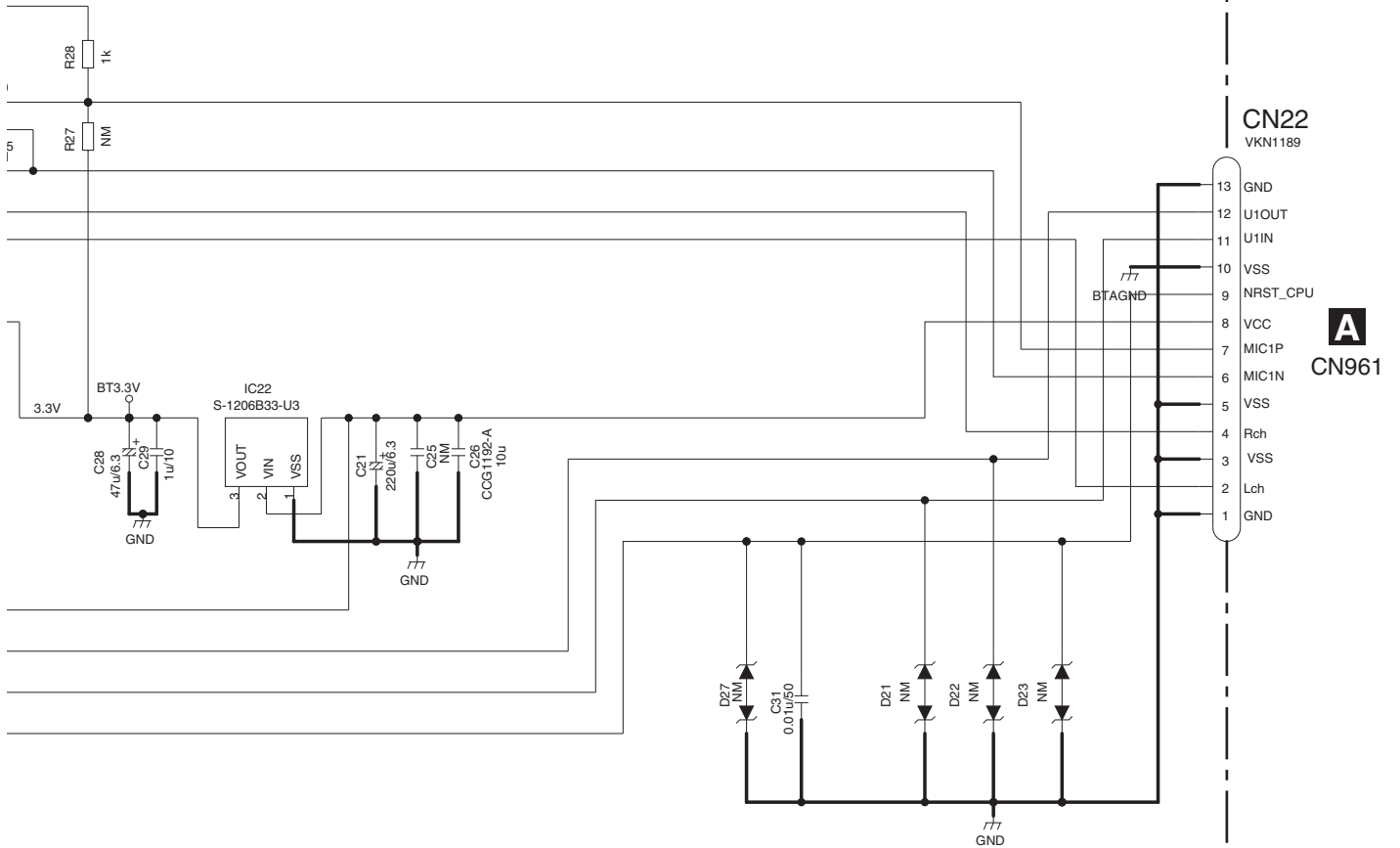
D

E

F



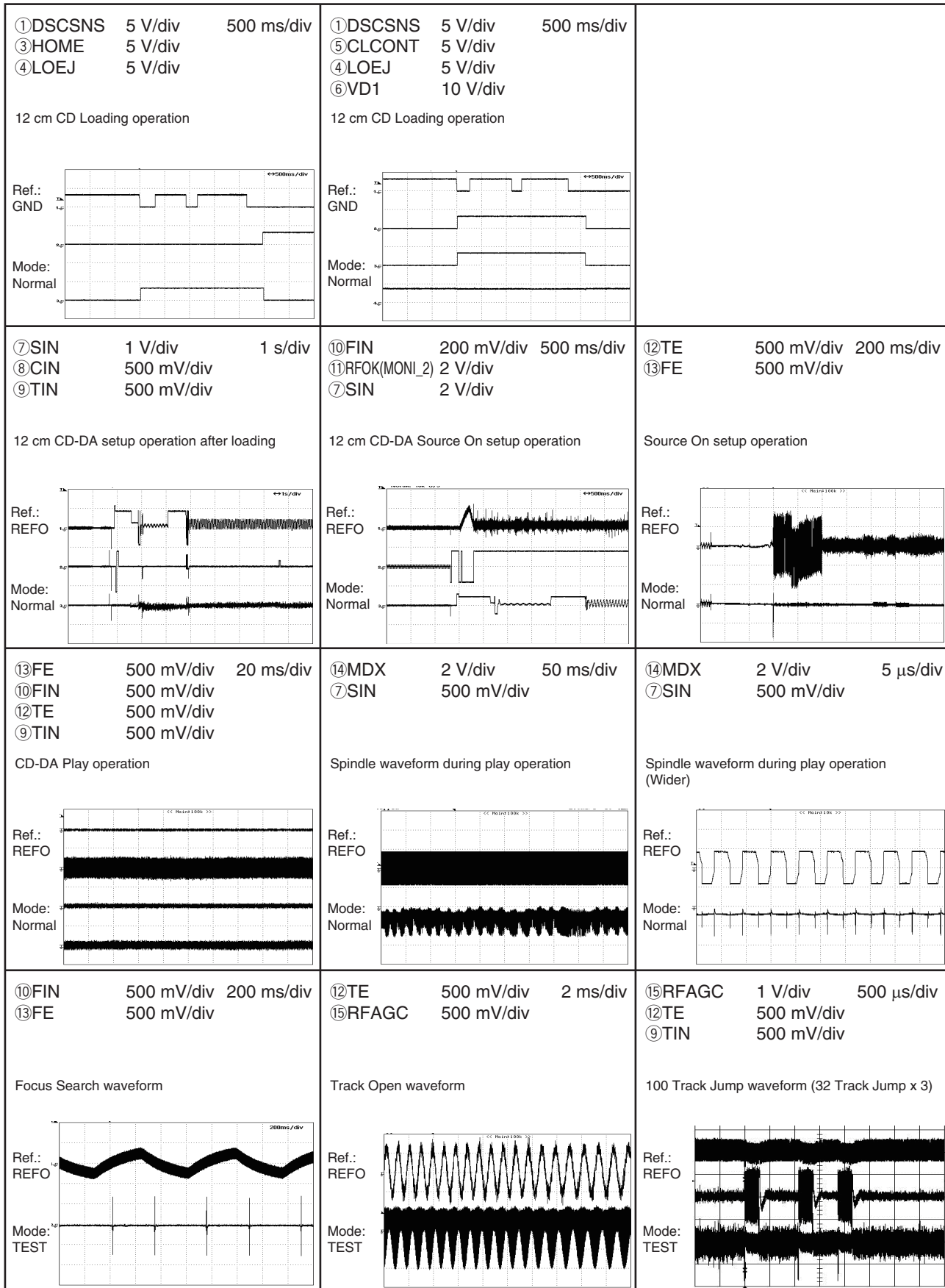
E BT UNIT

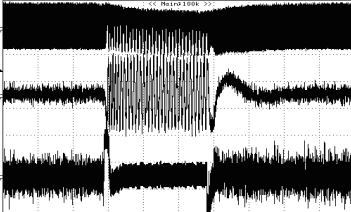
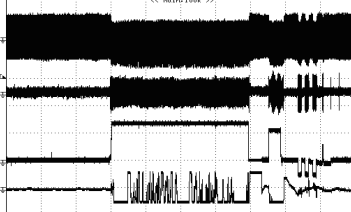
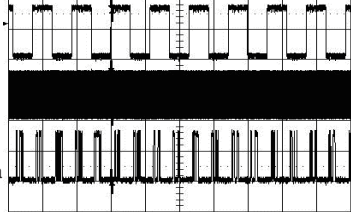
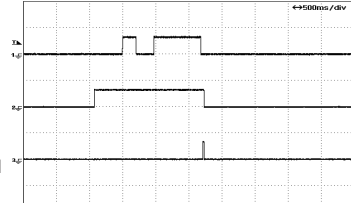

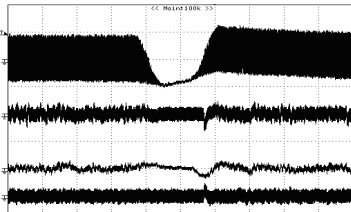


10.6 WAVEFORMS

● CD CORE UNIT(S11.6STD)

Note : 1. The encircled numbers denote measuring points in the circuit diagram.
 2. Reference voltage REFO1(1.65 V)



<p>⑮RFAGC 1 V/div 2 ms/div ⑫TE 500 mV/div ⑨TIN 500 mV/div</p> <p>32 Tracks Jump waveform (Zoom of 100 Track Jump waveform)</p> 	<p>⑮RFAGC 1 V/div 200 ms/div ⑫TE 1 V/div ⑧CIN 500 mV/div ⑦SIN 2 V/div</p> <p>Search operation(Outer to Inner)</p> 	<p>⑯LRCK 2 V/div 10 us/div ⑰BCLK 2 V/div ⑱DOUT(DATA) 2 V/div</p> <p>Digital Out waveform</p> 
<p>①DSCSNS 5 V/div 500 ms/div ⑤CLCONT 5 V/div ④LOEJ 5 V/div</p> <p>12 cm CD Eject operation</p> 		<p>①DSCSNS 5 V/div 500 ms/div ③HOME 5 V/div ④LOEJ 5 V/div</p> <p>12 cm CD Eject operation</p> 
<p>⑮RFAGC 1 V/div 500 μs/div ⑨TIN 1 V/div ⑫TE 1 V/div ⑩FIN 1 V/div</p> <p>Black Dot (800 μm) during play</p> 		

A

B

C

D

E

F

11. PCB CONNECTION DIAGRAM

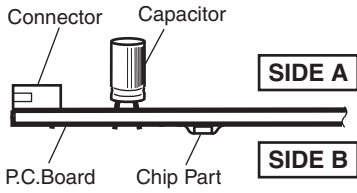
11.1 TUNER AMP UNIT

A

NOTE FOR PCB DIAGRAMS

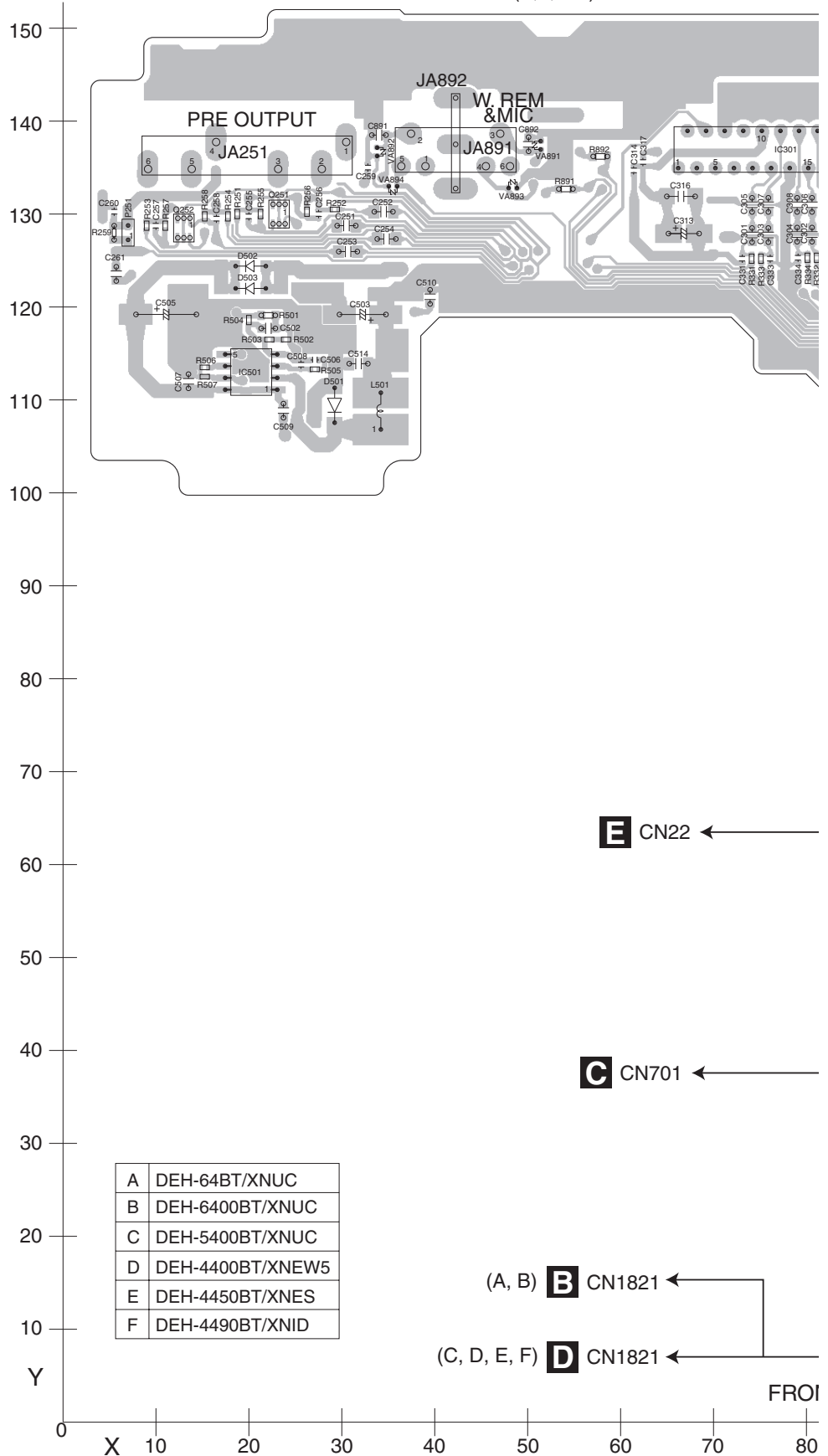
1. The parts mounted on this PCB include all necessary parts for several destination.
For further information for respective destinations, be sure to check with the schematic diagram.

2. Viewpoint of PCB diagrams



A TUNER AMP UNIT

△ P 251 (A,7,128) Fuse 3 A CEK1286



C

D

E

F

A	DEH-64BT/XNUC
B	DEH-6400BT/XNUC
C	DEH-5400BT/XNUC
D	DEH-4400BT/XNEW5
E	DEH-4450BT/XNES
F	DEH-4490BT/XNID

A

SIDE A

A

B

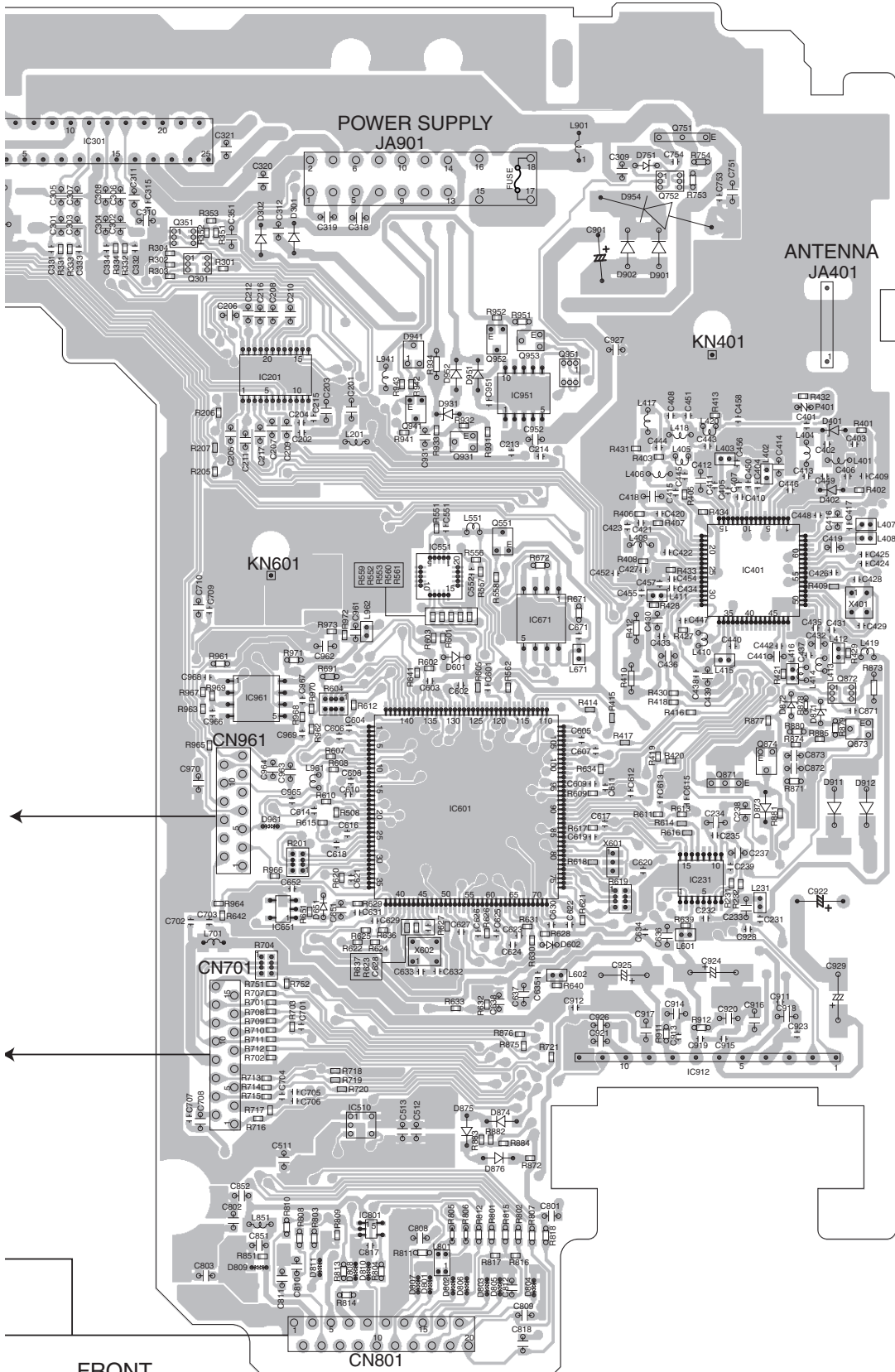
C

D

E

F

CEK1286



70 80 90 100 110 120 130 140 150 160

DEH-64BT/XNUC

A

A

A TUNER AMP UNIT

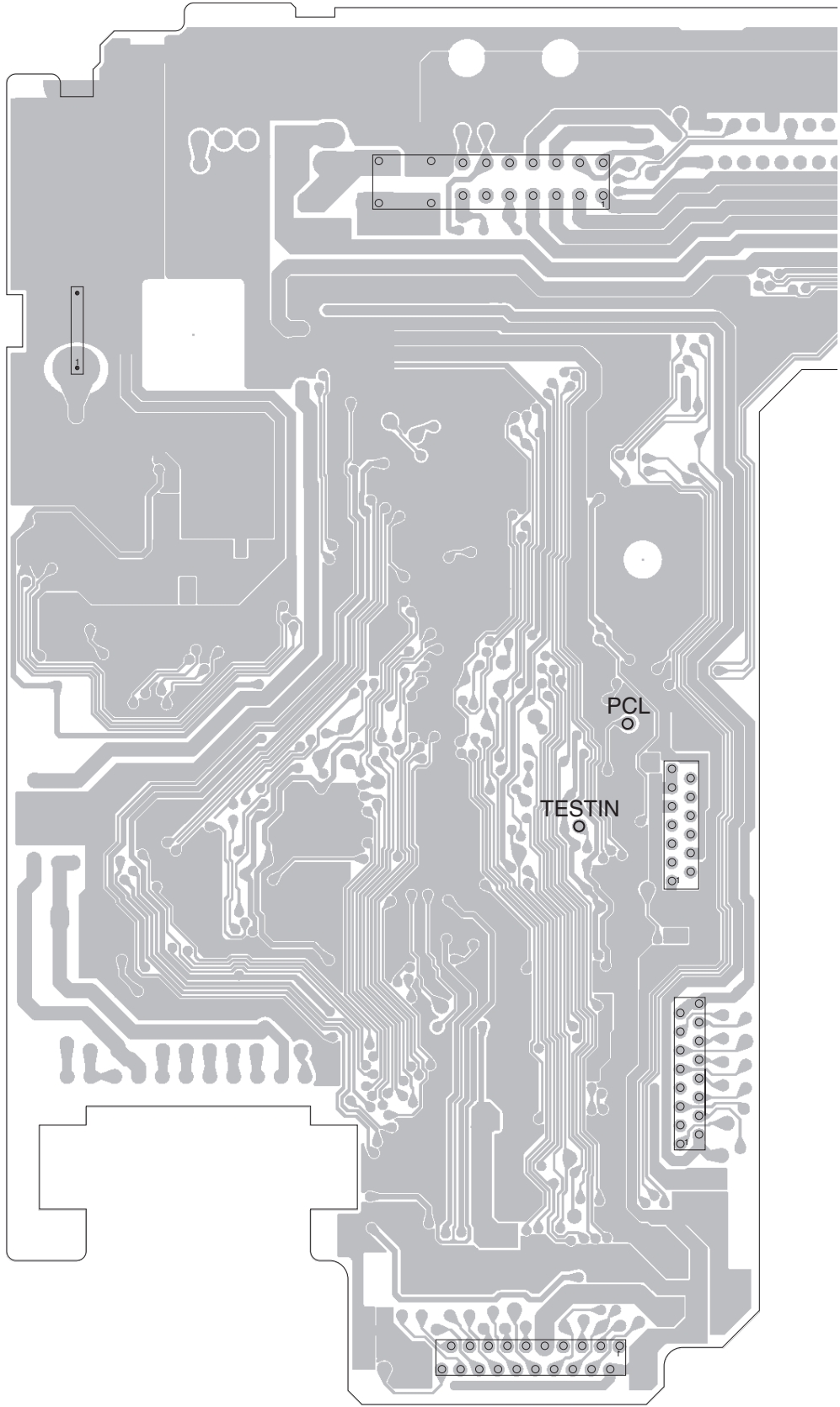
B

C

D

E

F



160 150 140 130 120 110 100 90 80

DEH-64BT/XNUC

A

SIDE B

A

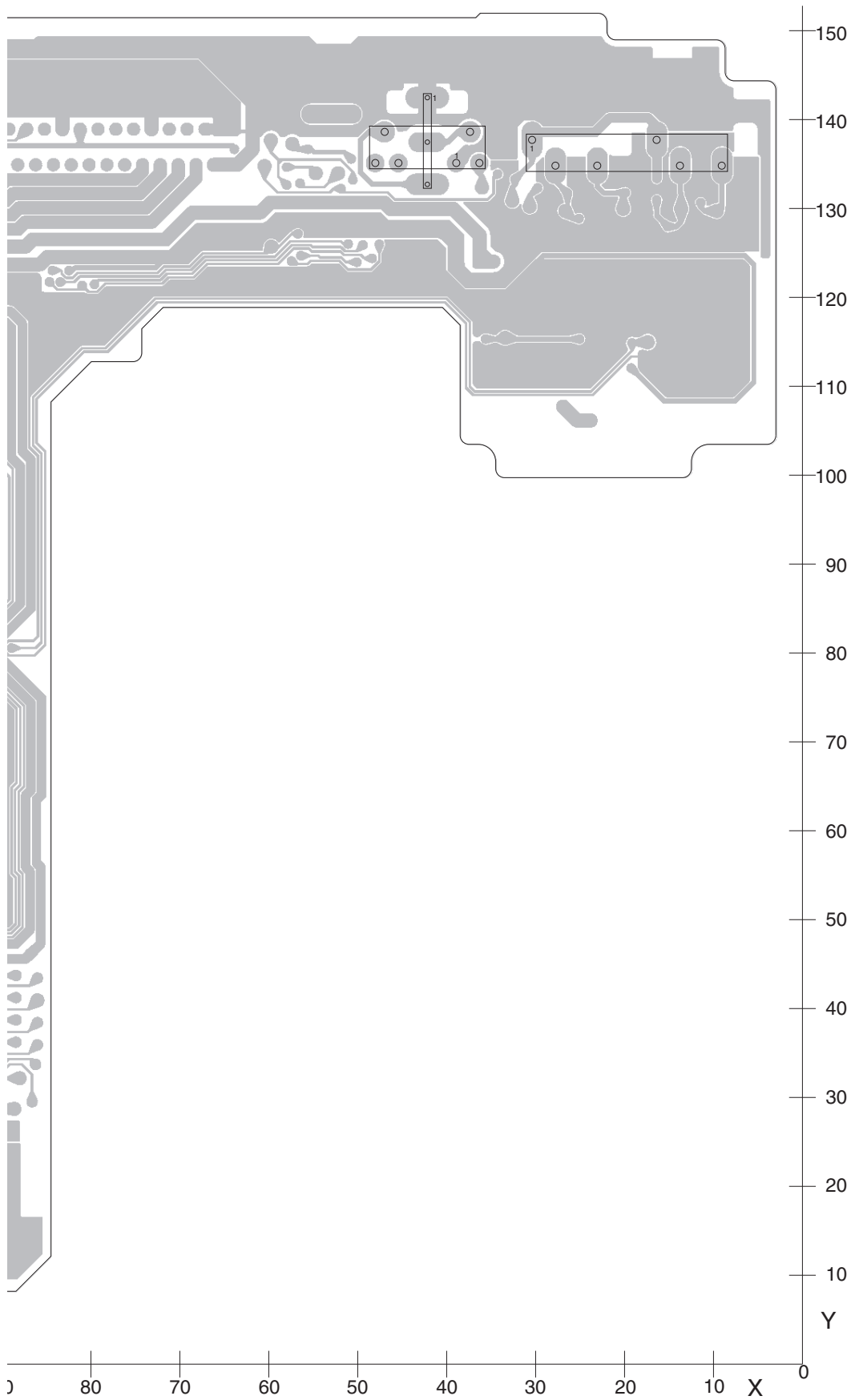
B

C

D

E

F



DEH-64BT/XNUC

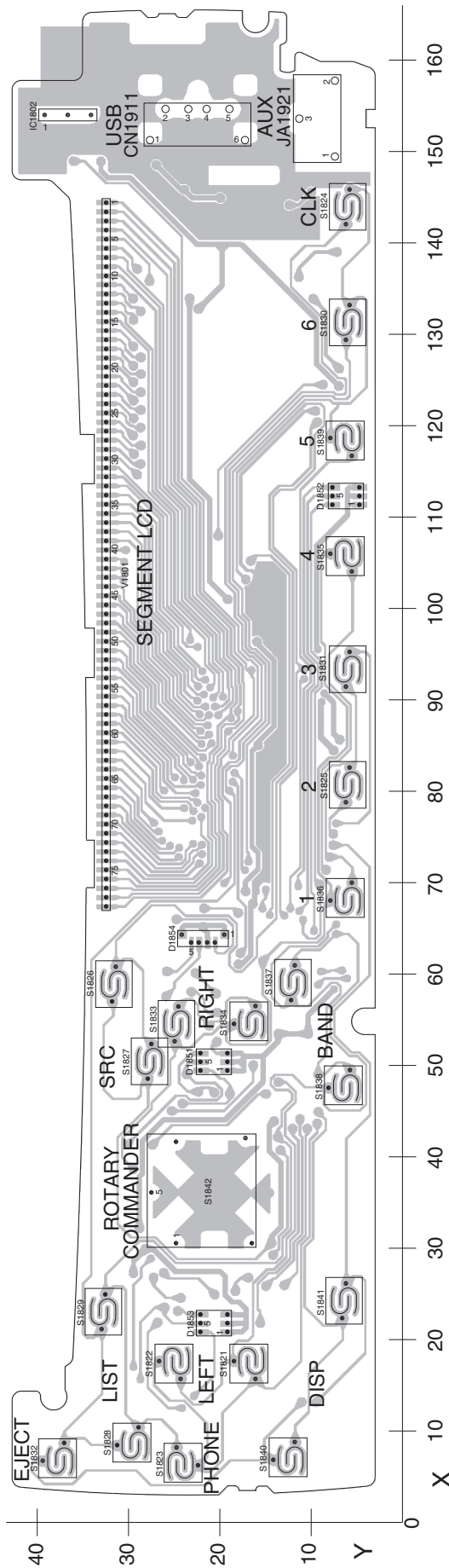
A

11.2 KEYBOARD UNIT

B KEYBOARD UNIT

SIDE A

(only A, B)



A	DEH-64BT/XNUC
B	DEH-6400BT/XNUC
C	DEH-5400BT/XNUC
D	DEH-4400BT/XNEW5
E	DEH-4450BT/XNES
F	DEH-4490BT/XNID

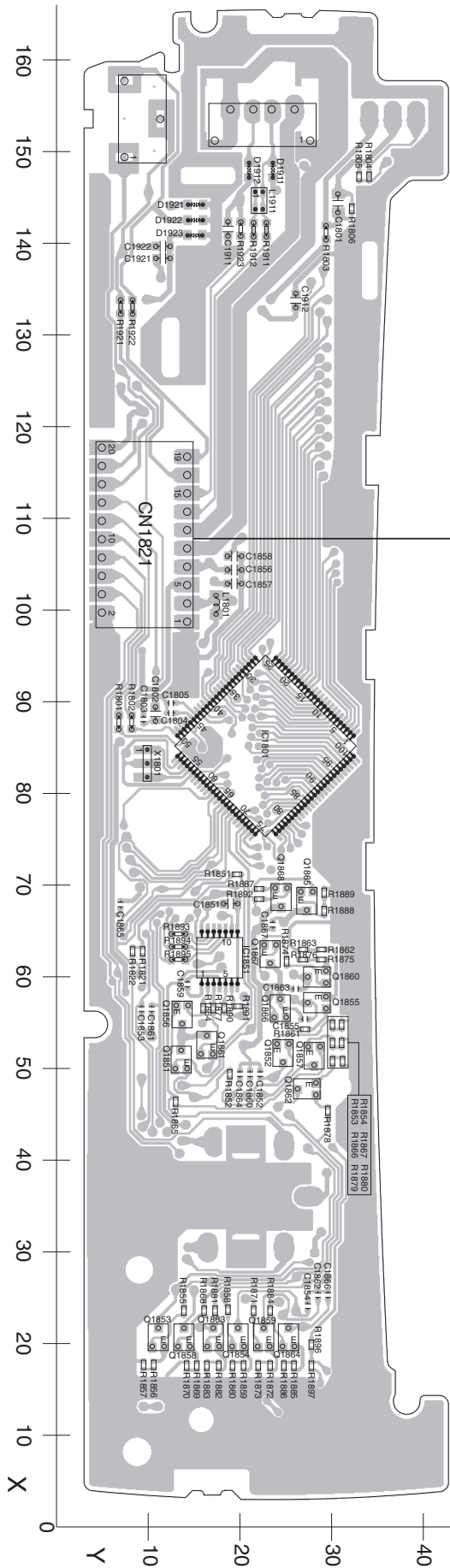
DEH-64BT/XNUC

B

B KEYBOARD UNIT

(only A, B)

SIDE B



A CN801

A	DEH-64BT/XNUC
B	DEH-6400BT/XNUC
C	DEH-5400BT/XNUC
D	DEH-4400BT/XNEW5
E	DEH-4450BT/XNES
F	DEH-4490BT/XNID

11.3 CD CORE UNIT (S11.6STD)

C CD CORE UNIT (S11.6STD)

SIDE A

A

B

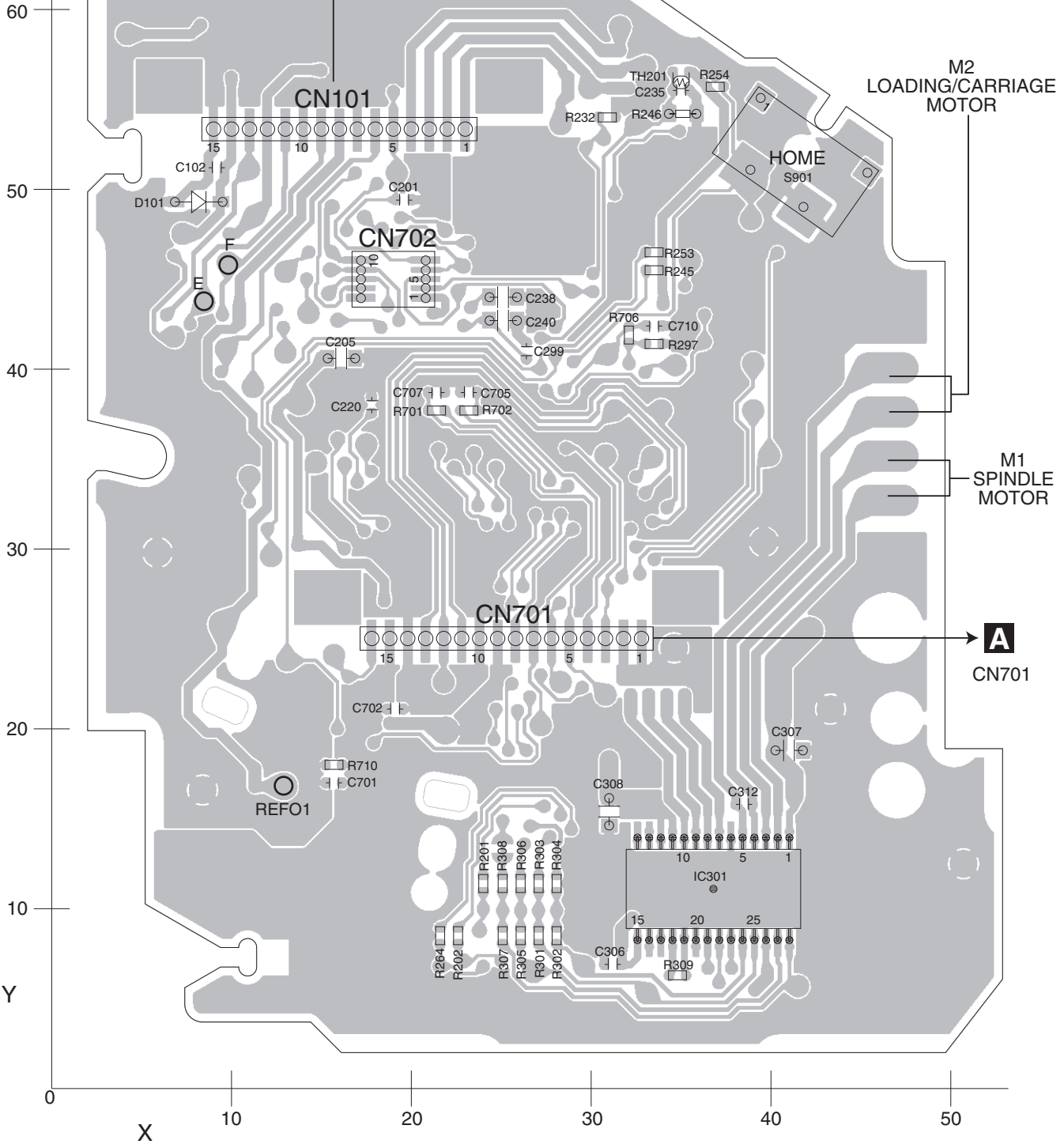
C

D

E

F

PICKUP UNIT(P10.6)(SERVICE)



11.4 KEYBOARD UNIT

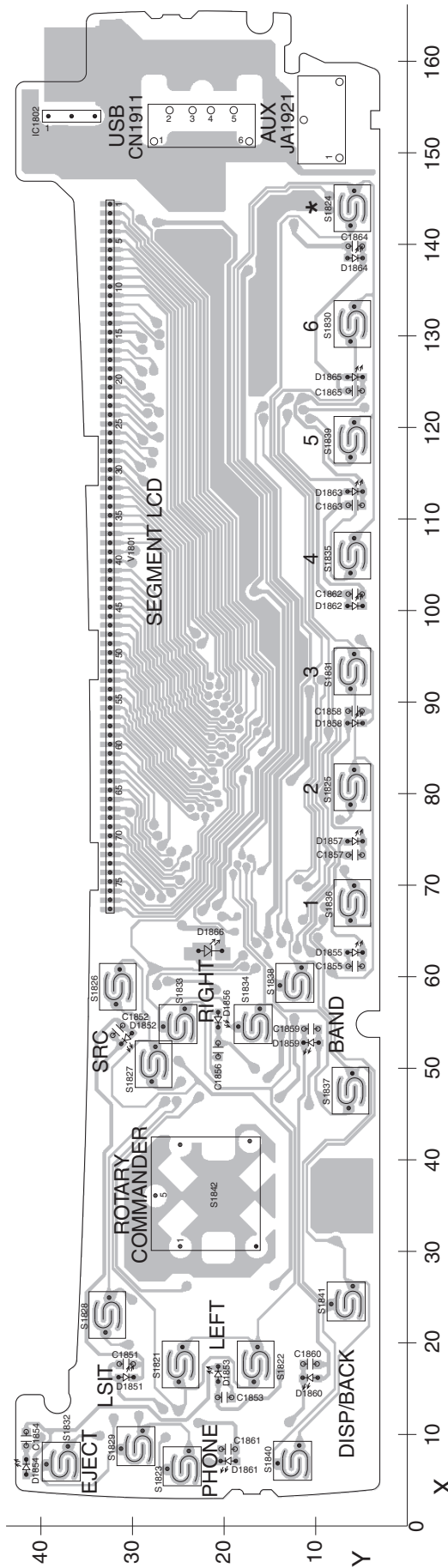
D KEYBOARD UNIT

(only C, D, E, F)

SIDE A

★	CLOCK	C, E, F
	PTY	D

A	DEH-64BT/XNUC
B	DEH-6400BT/XNUC
C	DEH-5400BT/XNUC
D	DEH-4400BT/XNEW5
E	DEH-4450BT/XNES
F	DEH-4490BT/XNID



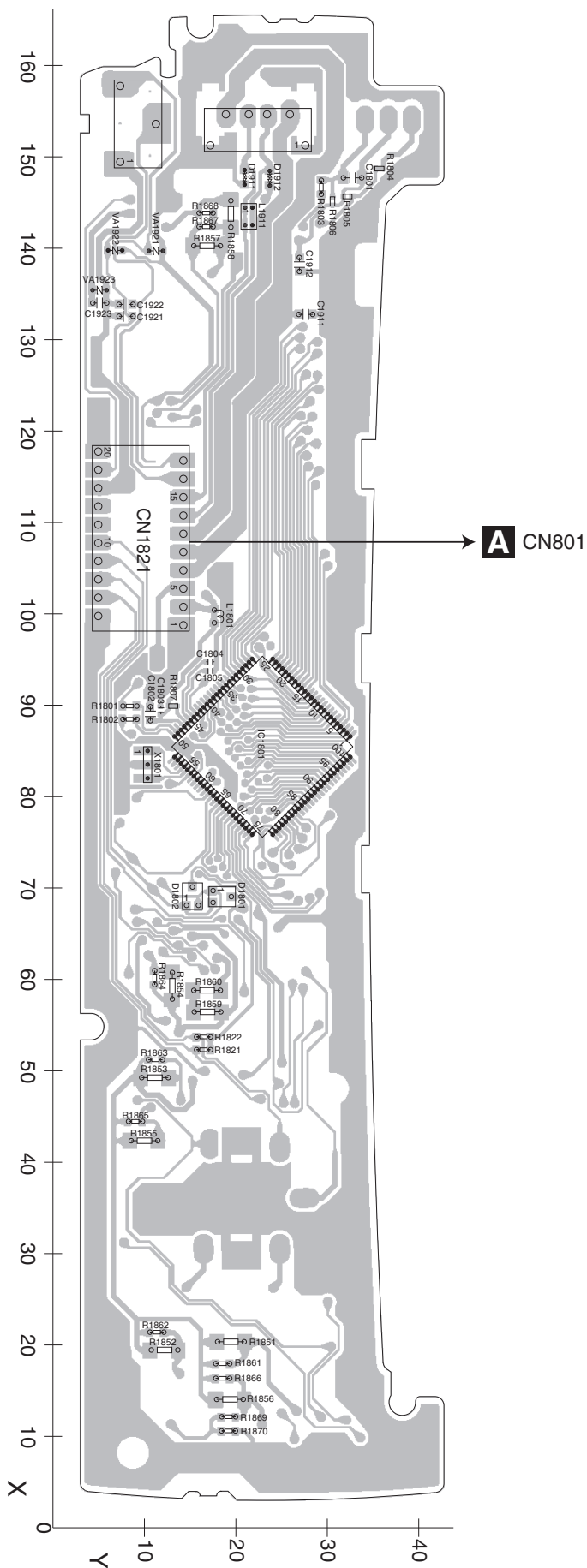
DEH-64BT/XNUC

D

D KEYBOARD UNIT

(only C, D, E, F)

SIDE B

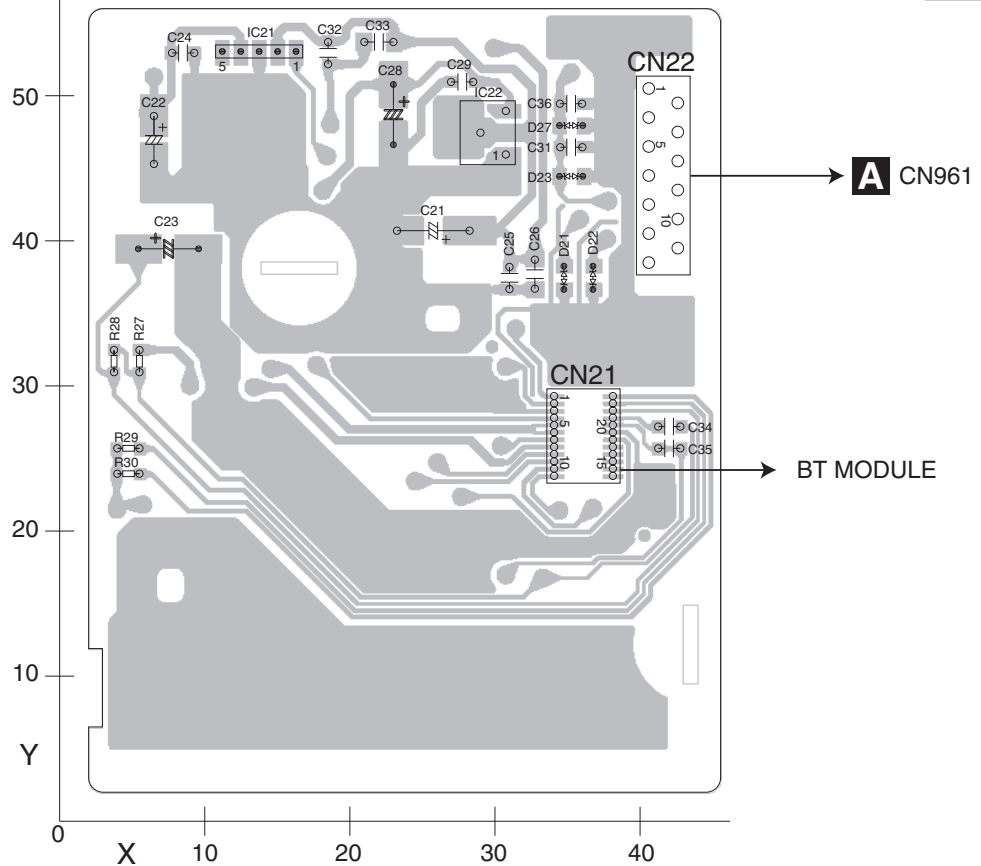


A	DEH-64BT/XNUC
B	DEH-6400BT/XNUC
C	DEH-5400BT/XNUC
D	DEH-4400BT/XNEW5
E	DEH-4450BT/XNES
F	DEH-4490BT/XNID

11.5 BT UNIT

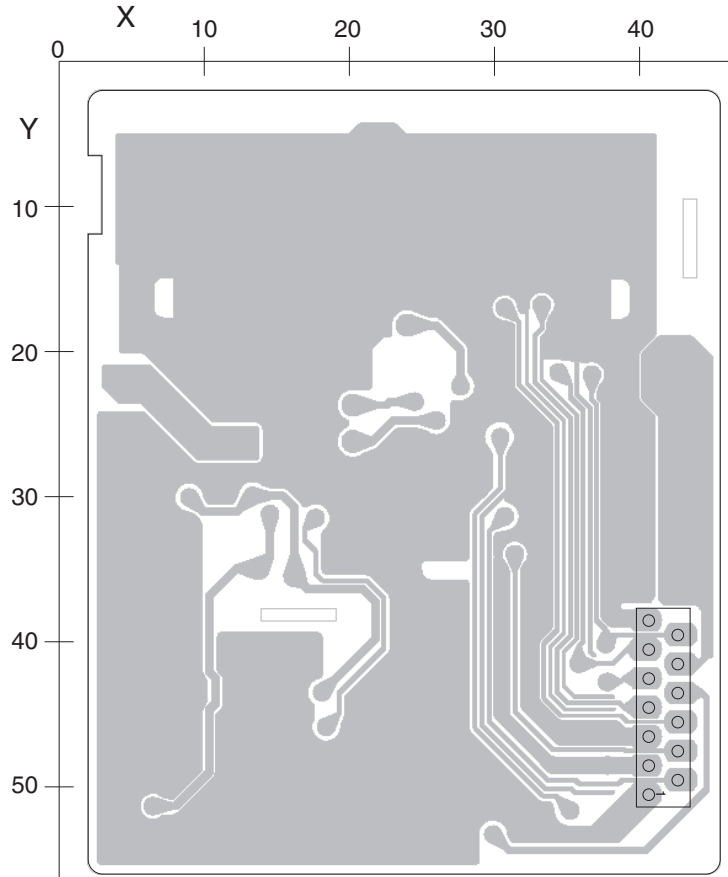
E BT UNIT

SIDE A



E BT UNIT

SIDE B



12. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/○S○○○○J,RS1/○○S○○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Meaning of the figures and others in the parentheses in the parts list.

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
A:DEH-64BT/XNUC		: QWM3298(D)	
B:DEH-6400BT/XNUC		: QWM3301(E)	
C:DEH-5400BT/XNUC		: QWM3302(F)	
D:DEH-4400BT/XNEW5		Unit Name : Tuner Amp Unit	
E:DEH-4450BT/XNES		MISCELLANEOUS	
F:DEH-4490BT/XNID		IC 201 (A,98,112) IC	PML022A
Unit Number : QWM3362(A)		IC 231 (A,144,57) D/A Converter	PCM1753DBQ
: QWM3300(B)		IC 301 (A,78,141) IC	PAL007E
: QWM3299(C)		IC 401 (A,150,90) IC	TDA7706
: QWM3298(D)		IC 501 (A,20,113) IC	BD9008F
: QWM3301(E)		IC 510 (A,107,30) IC	BD2232G-G
: QWM3302(F)		IC 551 (A,115,90) IC	341S2162
Unit Name : Tuner Amp Unit		IC 601 (A,118,65) IC	R5S7266ZD144FP
Unit Number : (A,B)		IC 651 (A,98,53) IC	S-80827CNMC-B8M
Unit Name : Keyboard Unit		IC 671 (A,126,85) Flash ROM Unit(A,B)	PEB009A8
Unit Number : CWX4023		(A,126,85) Flash ROM Unit(C)	PEB008A8
Unit Name : CD Core Unit (S11.6STD)		(A,126,85) Flash ROM Unit(D,E,F)	PEB029A8
Unit Number : (C,E,F)		IC 801 (A,108,19) L-MOS And Gate	TC7SET08FUS1
: (D)		IC 912 (A,145,28) IC	BA49182-V12
Unit Name : Keyboard Unit		IC 961 (A,95,76) IC	NJM4558MD
Unit Number : QWM3365		Q 251 (A,23,130) Chip Transistor	RN1910
Unit Name : BT Unit		Q 252 (A,13,129) Chip Transistor	RN1910
		Q 351 (A,88,127) Chip Transistor	RN4983
		Q 551 (A,122,93) Transistor	LSA1576UB
		Q 751 (A,142,138) Transistor	2SD2396
		Q 752 (A,140,133) Chip Transistor	RN4983
		Q 871 (A,146,69) Transistor(C,D,E,F)	2SD1767
		Q 872 (A,159,77) Chip Transistor(C,D,E,F)	RN4983
		Q 873 (A,161,73) Transistor	LTC143EUB
		Q 874 (A,151,70) Transistor(A,B)	2SA1577
		Q 931 (A,118,104) Transistor	LSC4081UB
		D 301 (A,100,126) Diode	CRG03
		D 302 (A,96,126) Diode	CRG03
		D 401 (A,158,106) Diode	KP2311E
		D 402 (A,158,99) Diode	KP2311E
		D 501 (A,29,109) Diode	RB160L-40
		D 502 (A,20,124) Diode	CRG03
		D 503 (A,20,122) Diode	CRG03
		D 601 (A,117,81) Diode	RB551V-30

A

Unit Number : QWM3362(A)
 : QWM3300(B)
 : QWM3299(C)

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Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

D 602	(A,127,50) Diode	RB751S-40			
D 751	(A,138,134) Diode	RKZ8.2KG(B2)	R 201	(A,100,59)	RAB4CQ102J
D 801	(A,114,13) Diode	DZ2S068C	R 231	(A,147,56)	RS1/16SS821J
D 802	(A,117,12) Diode	DZ2S068C	R 232	(A,148,56)	RS1/16SS821J
D 803	(A,121,12) Diode	DZ2S068C	R 251	(A,19,130)	RS1/16SS821J
			R 252	(A,29,131)	RS1/16SS821J
D 804	(A,126,12) Diode	DZ2S068C			
D 805	(A,122,12) Diode(A,B)	DZ2S068C	R 253	(A,9,129)	RS1/16SS821J
D 807	(A,113,13) Diode(A,B)	DZ2S068C	R 254	(A,18,130)	RS1/16SS821J
D 809	(A,96,14) Diode	DZ2S068C	R 255	(A,21,130)	RS1/16SS223J
D 810	(A,108,14) Diode	DZ2S068C	R 256	(A,26,130)	RS1/16SS223J
			R 257	(A,11,129)	RS1/16SS223J
D 811	(A,102,14) Diode	DZ2S068C			
D 872	(A,154,76) Diode(C,D,E,F)	RKZ7.5KG(B2)	R 258	(A,15,130)	RS1/16SS223J
D 875	(A,118,29) Diode(A,B)	CRG03	R 303	(A,86,122)	RS1/16SS103J
D 876	(A,122,26) Diode(A,B)	CRG03	R 304	(A,86,125)	RS1/16SS473J
			R 331	(A,74,125)	RS1/16SS471J
D 901	(A,139,125) Diode	1SR154-400	R 332	(A,81,125)	RS1/16SS471J
D 902	(A,136,125) Diode	1SR154-400			
D 911	(A,158,65) Diode	1SR154-400	R 333	(A,75,125)	RS1/16SS471J
D 912	(A,162,65) Diode	1SR154-400	R 334	(A,80,125)	RS1/16SS471J
			R 351	(A,91,127)	RS1/16SS103J
D 931	(A,116,107) Diode(A,B,C,E,F)	HZU7L(A1)	R 352	(A,90,127)	RS1/16SS103J
	(A,116,107) Diode(D)	HZU7L(C3)	R 353	(A,91,128)	RS1/16SS221J
L 401	(A,159,102) Chip Coil	LCTAWR15J2520			
L 402	(A,151,101) Inductor	CTF1786	R 401	(A,161,106)	RS1/16SS221J
L 403	(A,146,102) Inductor	CTF1786	R 402	(A,161,99)	RS1/16SS751J
L 404	(A,155,103) Chip Coil(A,B,C,D)	LCTAWR27J2520	R 403	(A,139,103) (A,B,C,D)	RS1/16SS152J
	(A,155,103) Chip Coil(E,F)	LCTAWR39J2520		(A,139,103) (E,F)	RS1/16SS331J
			R 405	(A,142,99)	RS1/16SS105J
L 405	(A,142,103) Inductor(A,B,C,D)	CTF1389			
L 406	(A,139,101) Inductor(A,B,C,D)	LCTAW220J2520	R 406	(A,137,96) (A,B,C,D)	RS1/16SS471J
	(A,139,101) Chip Coil(E,F)	LCTAW1R5J2520		(A,137,96) (E,F)	RS1/16SS361J
L 407	(A,162,95) Inductor	CTF1786	R 407	(A,139,95)	RS1/16SS330J
L 408	(A,162,94) Inductor	CTF1786	R 408	(A,138,91) (A,B,C,D)	RS1/16SS681J
L 409	(A,137,93) Chip Coil(A,B,C,D)	LCTAW470J2520		(A,138,91) (E,F)	RS1/16SS391J
	(A,137,93) Inductor(E,F)	LCTAW2R2J2520			
			R 410	(A,136,79)	RS1/4SA8R2J
L 415	(A,146,81) Inductor	CTF1786	R 412	(A,137,84)	RS1/4SA8R2J
L 416	(A,154,79) Inductor(D)	CTF1786	R 413	(A,145,107)	RS1/16SS105J
L 417	(A,138,107) Chip Coil(E,F)	LCTAWR39J2520	R 419	(A,139,70)	RS1/16SS103J
L 418	(A,142,105) Chip Coil(E,F)	LCTAWR27J2520	R 420	(A,141,70)	RS1/16SS103J
L 420	(A,145,106) Inductor(A,B,C)	LCYB68NJ1608	R 421	(A,153,79) (A,B,C,E,F)	RS1/16SS0R0J
L 501	(A,34,109) Coil	CTH1475	R 427	(A,142,84)	RS1/16SS102J
L 671	(A,131,81) Inductor	CTF1786	R 428	(A,139,86)	RS1/16SS0R0J
L 801	(A,116,15) Inductor	CTF1713	R 431	(A,137,104) (A,B,C)	RS1/16SS0R0J
			R 433	(A,141,90) (A,B,C,D)	RS1/16SS0R0J
L 901	(A,112,140) Choke Coil 600 uH	CTH1432			
X 401	(A,161,87) Oscillator 36.48 MHz	CSS1805	R 434	(A,144,97) (E,F)	RS1/16SS0R0J
X 601	(A,134,59) Ceramic Resonator 16.934 MHz	CSS1603	R 501	(A,22,119)	RS1/10SR471J
X 602	(A,114,49) Oscillator 12 MHz	YSS5005	R 502	(A,24,117)	RS1/16SS6202D
⚠ P251	(A,7,128) Fuse 3 A	CEK1286	R 503	(A,22,117)	RS1/16SS3601D
P 401	(A,155,108) Surge Protector	IMSA-6802-01Y900	R 504	(A,20,119)	RS1/16SS1202D
VA891	(A,51,137) Varistor	VR105C5R0AAA	R 505	(A,27,113)	RS1/16SS183J
VA892	(A,34,137) Varistor	VR105C5R0AAA	R 506	(A,15,114)	RS1/16SS513J
VA893	(A,48,133) Varistor	VR105C5R0AAA	R 508	(A,104,64)	RS1/16SS103J
VA894	(A,36,133) Varistor	VR105C5R0AAA	R 551	(A,115,95)	RS1/16SS473J
CN701	(A,92,38) Connector	VKN1192	R 552	(A,116,85)	RS1/16SS103J
CN801	(A,109,3) Connector	CKS6288	R 553	(A,117,85)	RS1/16SS103J
CN961	(A,93,64) Connector	VKN1189	R 556	(A,119,91)	RS1/16SS272J
JA251	(A,19,137) Pin Jack	CKB1099	R 557	(A,120,90)	RS1/16SS472J
JA401	(A,158,128) Antenna Jack	YKS5041	R 558	(A,122,90)	RS1/16SS472J
JA891	(A,42,140) Jack	YKS5035	R 559	(A,115,85)	RS1/16SS101J
JA901	(A,113,140) Plug	CKM1586	R 560	(A,118,85)	RS1/16SS101J
⚠	Fuse(10 A)	YEK5001	R 601	(A,116,83)	RS1/16SS103J
			R 602	(A,114,80)	RS1/16SS473J
			R 603	(A,115,83)	RS1/16SS104J

RESISTORS

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5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
R 604	(A,104,76)	RAB4CQ473J		R 812	(A,120,18) (A,B)	RS1/10SR222J	
R 607	(A,104,70)	RS1/16SS473J		R 813	(A,105,14) (A,B)	RS1/10SR222J	
R 608	(A,104,69)	RS1/16SS473J		R 814	(A,105,11) (C,D,E,F)	RS1/10SR0R0J	
R 609	(A,132,66)	RS1/16SS101J		R 815	(A,123,18)	RS1/10SR101J	A
R 610	(A,103,65)	RS1/16SS222J					
R 611	(A,139,64)	RS1/16SS101J		R 816	(A,124,16)	RS1/16SS223J	
R 612	(A,106,76)	RS1/16SS473J		R 817	(A,121,16)	RS1/16SS223J	
R 613	(A,142,64)	RS1/16SS101J		R 818	(A,127,18)	RS1/10SR222J	
R 615	(A,103,63)	RS1/16SS104J		R 851	(A,96,16)	RS1/16SS472J	
R 617	(A,132,62)	RS1/16SS221J		R 871	(A,154,67) (A,B)	RS1/10SR473J	
					(A,154,67) (C,D,E,F)	RS1/10SR222J	
R 619	(A,135,55)	RAB4CQ473J		R 872	(A,125,26) (A,B)	RS1/16SS1R0J	
R 620	(A,105,57)	RS1/16SS473J		R 873	(A,163,78) (C,D,E,F)	RS1/4SA151J	
R 621	(A,131,52)	RS1/16SS473J		R 874	(A,154,71) (A,B)	RS1/16SS122J	
R 622	(A,106,50)	RS1/16SS473J		R 875	(A,125,39) (A,B)	RS1/16SS0R0J	
R 623	(A,113,51)	RS1/16SS152J					B
R 624	(A,108,50)	RS1/16SS473J		R 876	(A,124,40) (C,D,E,F)	RS1/16SS0R0J	
R 626	(A,121,51)	RS1/16SS5601F		R 877	(A,151,74) (A,B)	RS1/16SS103J	
R 628	(A,127,51)	RS1/16SS103J		R 879	(A,158,73) (C,D,E,F)	RS1/10SR473J	
R 629	(A,106,54)	RS1/16SS102J		R 880	(A,154,73) (C,D,E,F)	RS1/10SR181J	
				R 882	(A,121,28) (A,B)	RS1/16SS0R0J	
R 630	(A,125,50) (A,E,F)	RS1/16SS473J		R 884	(A,122,28) (C,D,E,F)	RS1/16SS1R0J	
R 631	(A,125,52) (B,C,D)	RS1/16SS473J		R 885	(A,157,72) (A,B)	RS1/16SS152J	
	(A,125,52) (E)	RS1/16SS103J					
	(A,125,52) (F)	RS1/16SS223J		R 891	(A,54,133)	RS1/10SR102J	
R 632	(A,121,43)	RS1/16SS103J		R 892	(A,58,136)	RS1/10SR102J	
R 633	(A,117,43)	RS1/16SS101J		R 911	(A,140,40)	RS1/10SR1R0J	
R 636	(A,109,51)	RS1/16SS473J		R 912	(A,144,41)	RS1/10SR1R0J	
R 641	(A,113,79)	RS1/16SS473J		R 931	(A,121,105)	RS1/16SS223J	C
R 642	(A,92,53)	RS1/16SS473J					
R 651	(A,101,53)	RS1/16SS104J		R 932	(A,118,106)	RS1/16SS473J	
R 671	(A,131,86)	RS1/10SR473J		R 933	(A,115,106) (A,B,C,E,F)	RS1/16SS472J	
R 672	(A,126,91)	RS1/10SR473J			(A,115,106) (D)	RS1/16SS473J	
R 701	(A,97,43)	RS1/16SS473J		R 934	(A,115,113)	RS1/4SA102J	
R 702	(A,97,37)	RS1/16SS104J		R 961	(A,92,80)	RS1/10SR473J	
				R 962	(A,101,73)	RS1/16SS822J	
R 703	(A,99,41)	RS1/16SS104J					
R 704	(A,97,47)	RAB4CQ472J		R 963	(A,90,75)	RS1/16SS822J	
R 707	(A,97,44)	RS1/16SS221J		R 964	(A,91,54)	RS1/16SS102J	
R 708	(A,97,42)	RS1/16SS221J		R 965	(A,90,71)	RS1/16SS0R0J	
R 709	(A,97,41)	RS1/16SS101J		R 966	(A,97,57)	RS1/16SS102J	
				R 967	(A,90,77)	RS1/16SS103J	D
R 710	(A,97,40)	RS1/16SS221J					
R 711	(A,97,39)	RS1/16SS101J		R 968	(A,100,74)	RS1/16SS103J	
R 712	(A,97,38)	RS1/16SS102J		R 969	(A,91,77)	RS1/16SS103J	
R 713	(A,97,35)	RS1/16SS151J		R 970	(A,101,75)	RS1/16SS103J	
R 714	(A,97,34)	RS1/16SS151J		R 971	(A,100,81)	RS1/10SR473J	
				R 972	(A,105,83)	RS1/16SS103J	
R 715	(A,97,33)	RS1/16SS151J		R 973	(A,104,84)	RS1/16SS103J	
R 716	(A,96,31)	RS1/16SS221J		<u>CAPACITORS</u>			
R 717	(A,97,32)	RS1/16SS104J		C 201	(A,106,108) 10 uF	CCG1192	E
R 751	(A,97,45)	RS1/16SS473J		C 202	(A,100,105)	CCSSCH100D50	
R 752	(A,99,45)	RS1/16SS103J		C 203	(A,103,108) 4.7 uF	CCG1201	
				C 204	(A,100,106)	CCSSCH100D50	
R 753	(A,143,133)	RS1/10SR821J		C 205	(A,93,105)	CKSRYB105K10	
R 801	(A,121,18)	RS1/10SR101J					
R 802	(A,124,18)	RS1/10SR101J		C 206	(A,93,118)	CKSRYB105K10	
R 803	(A,102,18)	RS1/10SR222J		C 207	(A,97,106)	CKSRYB105K10	
R 804	(A,109,14)	RS1/10SR222J		C 208	(A,97,118)	CKSRYB105K10	
				C 209	(A,99,106)	CKSRYB105K10	
R 805	(A,117,18)	RS1/10SR8R2J		C 210	(A,99,118)	CKSRYB105K10	
R 806	(A,118,18)	RS1/10SR8R2J					
R 807	(A,125,18)	RS1/10SR222J		C 211	(A,94,104)	CKSRYB105K10	
R 808	(A,100,18)	RS1/10SR222J		C 212	(A,95,118)	CKSRYB105K10	F
R 809	(A,104,18)	RS1/16SS822J		C 213	(A,123,103) (D)	CCSSCH101J50	
				C 215	(A,102,107)	CCSSCH100D50	
R 810	(A,99,19)	RS1/10SR222J		C 216	(A,96,118)	CKSRYB105K10	
R 811	(A,114,16) (A,B)	RS1/10SR222J					

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Circuit Symbol and No.Part No.Circuit Symbol and No.Part No.

C 217	(A,96,105)	CKSRYB105K10	C 423	(A,136,95)	CKSSYB103K16
C 232	(A,144,52)	CKSSYB103K16	C 424	(A,162,91)	CKSSYB472K25
C 233	(A,149,54) 10 uF	CCG1192	C 425	(A,162,92)	CKSSYB472K25
C 234	(A,145,63) 10 uF	CCG1192	C 426	(A,158,90)	CKSSYB104K10
C 237	(A,148,60)	CCSRCH182J50	C 427	(A,138,90) (A,B,C,D)	CCSSCH820J50
C 238	(A,149,64)	CCSRCH182J50		(A,138,90) (E,F)	CCSSCK2R0C50
C 239	(A,147,58)	CKSSYB102K50	C 428	(A,161,89)	CCSSCH9R0D50
C 251	(A,31,129) 4.7 uF	CCG1201	C 429	(A,161,84)	CCSSCH9R0D50
C 252	(A,35,130) 4.7 uF	CCG1201	C 430	(A,139,85) (A,B,C,D)	CKSRYB474K10
C 253	(A,31,126) 4.7 uF	CCG1201	C 431	(A,158,84) (A,B,C,D)	CKSSYB104K10
C 254	(A,35,127) 4.7 uF	CCG1201	C 432	(A,157,82) 2.2 uF(E,F)	CCG1205
C 255	(A,20,130)	CCSSCH101J50	C 433	(A,140,83) (E,F)	CKSSYB104K10
C 256	(A,28,130)	CCSSCH101J50	C 437	(A,156,81)	CKSSYB104K10
C 257	(A,10,129)	CCSSCH101J50	C 439	(A,145,79) (E,F)	CKSRYB104K16
C 258	(A,17,130)	CCSSCH101J50	C 440	(A,147,82)	CKSSYB104K10
C 259	(A,33,135)	CKSSYB102K50	C 441	(A,152,81) 2.2 uF	CCG1205
C 301	(A,74,128)	CKSRYB474K10	C 443	(A,145,104) (D,E,F)	CKSSYB103K16
C 302	(A,81,128)	CKSRYB474K10	C 444	(A,139,104) (E,F)	CCSSCH8R0D50
C 303	(A,76,128)	CKSRYB474K10	C 445	(A,142,101)	CKSSYB223K16
C 304	(A,79,128)	CKSRYB474K10	C 447	(A,142,85)	CKSSYB102K50
C 305	(A,74,131)	CKSRYB474K10	C 452	(A,134,90) (A,B,C)	CKSSYB105K6R3
C 306	(A,81,131)	CKSRYB474K10	C 455	(A,137,88) (A,B,C)	CCSSCH100D50
C 307	(A,76,131)	CKSRYB474K10	C 457	(A,139,89) (A,B,C)	CKSSYB105K6R3
C 308	(A,79,131)	CKSRYB474K10	C 458	(A,148,107) (A,B,C)	CCSSCJ3R0C50
C 309	(A,135,134)	CKSRYB104K16	C 503	(A,32,119)	CEVQW221M6R3
C 310	(A,83,128) 2.2 uF	CCG1205	C 505	(A,11,119) Capacitor	CEVW221M16
C 311	(A,82,131) 2.2 uF	CCG1205	C 506	(A,27,114)	CKSSYB153K16
C 312	(A,98,127)	CKSRYB104K16	C 507	(A,14,112)	CKSRYB105K16
C 313	(A,67,128)	CEVW100M16	C 508	(A,26,114)	CCSSCH220J50
C 314	(A,61,135)	CCSSCH101J50	C 509	(A,24,109)	CKSRYB105K16
C 315	(A,84,130)	CCSSCH101J50	C 510	(A,40,121)	CKSRYB105K10
C 317	(A,62,136)	CCSSCK1R0C50	C 512	(A,113,29)	CKSRYB105K10
C 318	(A,107,129)	CCSRCH100D50	C 514	(A,32,114) 10 uF	CCG1192
C 319	(A,103,129)	CCSRCH100D50	C 551	(A,116,95)	CKSSYB104K10
C 320	(A,96,133)	CCSRCH100D50	C 552	(A,119,90)	CKSSYB104K10
C 321	(A,92,136)	CCSRCH100D50	C 601	(A,121,78)	CKSSYB104K10
C 351	(A,93,127) 10 uF	CCG1192	C 602	(A,118,78)	CKSSYB104K10
C 401	(A,155,106)	CCSSCH330J50	C 603	(A,114,78)	CKSSYB104K10
C 402	(A,158,104)	CCSSCH6R0D50	C 604	(A,106,73)	CKSSYB104K10
C 403	(A,161,104)	CKSSYB103K16	C 605	(A,131,72)	CKSSYB104K10
C 404	(A,150,100)	CKSSYB104K10	C 606	(A,104,72)	CKSSYB104K10
C 405	(A,147,99)	CKSSYB104K10	C 607	(A,132,71)	CKSSYB104K10
C 406	(A,160,101)	CKSSYB103K16	C 608	(A,106,67)	CKSSYB104K10
C 407	(A,148,100)	CKSSYB104K10	C 609	(A,132,67)	CKSSYB104K10
C 408	(A,141,107) (E,F)	CCSSCH150J50	C 610	(A,105,66)	CKSSYB104K10
C 409	(A,162,101)	CKSSYB103K16	C 612	(A,136,66)	CKSSYB104K10
C 410	(A,148,98)	CKSSYB103K16	C 616	(A,105,62)	CKSSYB104K10
C 411	(A,145,100)	CKSSYB103K16	C 617	(A,133,63) (A,B,C,E,F)	CCSSCH100D50
C 412	(A,144,100) 10 uF	CCG1192	C 618	(A,104,60)	CKSSYB104K10
C 413	(A,155,101)	CKSSYB103K16	C 619	(A,132,61)	CKSSYB104K10
C 414	(A,152,102)	CKSRYB105K10	C 620	(A,138,58)	CKSSYB104K10
C 415	(A,141,99)	CKSSYB103K16	C 621	(A,106,57)	CKSSYB104K10
C 416	(A,159,96)	CKSRYB224K16	C 622	(A,130,52)	CKSSYB104K10
C 417	(A,160,95)	CKSSYB104K10	C 623	(A,124,51)	CKSSYB104K10
C 418	(A,139,98) 10 uF	CCG1192	C 624	(A,123,50)	CKSSYB104K10
C 419	(A,158,93)	CKSRYB105K10	C 625	(A,122,51)	CKSSYB104K10
C 420	(A,139,96)	CKSSYB104K10	C 626	(A,120,51)	CKSSYB104K10
C 421	(A,137,95) (A,B,C,D)	CCSSCH101J50	C 627	(A,118,51)	CKSSYB104K10
C 422	(A,137,95) (E,F)	CCSSCH220J50	C 628	(A,114,51)	CKSSYB104K10
C 422	(A,140,92)	CKSSYB104K10	C 629	(A,108,52)	CKSSYB104K10
			C 630	(A,128,52)	CKSSYB104K10

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<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
C 632	(A,115,47)	CCSSCH120J50		Q 1859	(B,21,23) Transistor	LSC4081UB	
C 633	(A,113,47)	CCSSCH120J50		Q 1860	(B,60,28) Transistor	LSC4081UB	
C 638	(A,122,43)	CKSRYB105K10		Q 1861	(B,53,16) Transistor	LSC4081UB	
C 651	(A,105,53)	CKSRYB105K10		Q 1862	(B,48,27) Transistor	LSC4081UB	
C 671	(A,131,83)	CKSSYB104K10		Q 1863	(B,21,17) Transistor	LSC4081UB	
C 701	(A,100,41)	CKSSYB103K16		Q 1864	(B,21,25) Transistor	LSC4081UB	
C 751	(A,147,131) 10 uF	CCG1192		Q 1865	(B,68,27) Transistor	LSC4081UB	
C 754	(A,141,135)	CKSSYB104K10		Q 1866	(B,57,24) Transistor	LSC4081UB	
C 802	(A,93,20) (A,B)	CKSRYB104K16		Q 1867	(B,63,23) Transistor	LSC4081UB	
C 803	(A,90,14) (A,B)	CKSRYB104K16		Q 1868	(B,69,25) Transistor	LSC4081UB	
C 808	(A,113,18)	CKSRYB104K16		D 1851	(A,50,21) LED	SMLV56RGB1U1(Q)	
C 809	(A,125,9)	CKSRYB104K16		D 1852	(A,112,6) LED	SMLV56RGB1U1(Q)	
C 810	(A,100,15)	CCSRCH221J50		D 1853	(A,22,21) LED	SMLV56RGB1U1(Q)	
C 811	(A,98,13)	CCSRCH221J50		D 1854	(A,64,22) Chip LED	NSSM038A-6430	
C 812	(A,123,12)	CKSRYB105K16		X 1801	(B,83,10) Ceramic Resonator 5.00 MHz	CSS1547	
C 817	(A,108,17)	CKSSYB104K10		S 1842	(A,36,21) Encoder(ROTARY COMMANDER)	CSD1168	
C 818	(A,124,6)	CKSRYB104K16		CN1821	(B,108,10) Connector	CKS6287	
C 871	(A,160,75) (C,D,E,F)	CKSSYB104K16		CN1911	(A,155,22) Connector	CKS6267	
C 872	(A,154,69) (A,B)	CKSRYB104K16		JA1921	(A,154,8) Jack	CKN1090	
C 872	(A,154,69) (C,D,E,F)	CKSRYB105K16		V 1801	(A,106,23) Segment LCD	CAW2017	
C 901	(A,133,124) 3 300 uF/16 V	CCH1732					
C 913	(A,141,40)	CKSSYB102K50					
C 914	(A,141,42) 4.7 uF	CCG1201					
C 916	(A,150,41) 4.7 uF	CCG1201		R 1801	(B,88,7)	RS1/10SR222J	
C 917	(A,138,40) 4.7 uF	CCG1201		R 1802	(B,88,8)	RS1/10SR222J	
C 918	(A,153,42) 4.7 uF	CCG1201		R 1803	(B,141,29)	RS1/10SR101J	
C 919	(A,144,39)	CKSSYB102K50		R 1822	(B,63,8)	RS1/16SS273J	
C 920	(A,147,42) 4.7 uF	CCG1201		R 1851	(B,71,20)	RS1/16SS102J	
C 921	(A,133,39)	CKSRYB104K16		R 1852	(B,49,19)	RS1/16SS101J	
C 922	(A,157,54) (A,B,C,D)	CEAT102M16		R 1853	(B,55,30)	RS1/16SS181J	
C 922	(A,157,54) 1 000 uF/16 V(E,F)	CCH2024		R 1854	(B,55,31)	RS1/16SS181J	
C 923	(A,154,40)	CKSSYB102K50		R 1855	(B,24,14)	RS1/16SS101J	
C 926	(A,133,41)	CKSRYB102K50		R 1856	(B,18,11)	RS1/16SS181J	
C 931	(A,114,105)	CKSRYB104K16		R 1857	(B,18,10)	RS1/16SS181J	
C 961	(A,106,84)	CKSRYB105K16		R 1858	(B,24,19)	RS1/16SS101J	
C 962	(A,103,82) 10 uF	CCG1192		R 1859	(B,18,20)	RS1/16SS181J	
C 963	(A,99,68)	CKSRYB105K10		R 1860	(B,18,19)	RS1/16SS181J	
C 964	(A,97,69)	CKSRYB105K10		R 1861	(B,54,27)	RS1/16SS101J	
C 966	(A,91,75)	CCSSCH221J50		R 1862	(B,63,29)	RS1/16SS181J	
C 967	(A,100,76)	CKSSYB471K50		R 1863	(B,63,27)	RS1/16SS151J	
C 968	(A,90,79)	CKSSYB471K50		R 1864	(B,57,16)	RS1/16SS102J	
C 969	(A,100,73)	CCSSCH221J50		R 1865	(B,46,13)	RS1/16SS101J	
				R 1866	(B,53,30)	RS1/16SS121J	
				R 1867	(B,53,31)	RS1/16SS221J	
				R 1868	(B,24,16)	RS1/16SS101J	
				R 1869	(B,18,15)	RS1/16SS121J	
				R 1870	(B,18,14)	RS1/16SS221J	
				R 1871	(B,24,22)	RS1/16SS101J	
				R 1872	(B,18,23)	RS1/16SS121J	
				R 1873	(B,18,22)	RS1/16SS221J	
				R 1874	(B,62,25)	RS1/16SS101J	
				R 1875	(B,62,29)	RS1/16SS181J	
				R 1876	(B,62,27)	RS1/16SS181J	
				R 1877	(B,57,17)	RS1/16SS102J	
				R 1878	(B,45,30)	RS1/16SS101J	
				R 1879	(B,51,30)	RS1/16SS181J	
				R 1880	(B,51,31)	RS1/16SS181J	
				R 1881	(B,24,17)	RS1/16SS101J	
				R 1882	(B,18,18)	RS1/16SS181J	
				R 1883	(B,18,16)	RS1/16SS181J	

RESISTORS

B

Unit Number : (A,B)
Unit Name : Keyboard Unit

MISCELLANEOUS

IC 1801	(B,85,23) IC	PD6538A
IC 1802	(A,159,37) Remote IC	GP1UXC14RK
IC 1851	(B,62,18) DAC	BU2507FV
Q 1851	(B,51,14) Transistor	LSC4081UB
Q 1852	(B,52,25) Transistor	LSC4081UB
Q 1853	(B,21,11) Transistor	LSC4081UB
Q 1854	(B,21,20) Transistor	LSC4081UB
Q 1855	(B,57,28) Transistor	LSC4081UB
Q 1856	(B,56,14) Transistor	LSC4081UB
Q 1857	(B,51,28) Transistor	LSC4081UB
Q 1858	(B,21,14) Transistor	LSC4081UB

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Circuit Symbol and No.**Part No.****Circuit Symbol and No.****Part No.**

R 1884 (B,24,23) RS1/16SS101J
 R 1885 (B,18,26) RS1/16SS181J
 R 1886 (B,18,25) RS1/16SS181J

R 215 (B,17,28)
 R 216 (B,12,35)

RS1/16SS393J
 RS1/16SS122J

A R 1887 (B,70,22) RS1/16SS101J
 R 1888 (B,67,29) RS1/16SS181J
 R 1889 (B,69,29) RS1/16SS181J
 R 1890 (B,57,18) RS1/16SS102J
 R 1891 (B,57,20) RS1/16SS102J

R 217 (B,10,32)
 R 218 (B,10,35)
 R 229 (B,12,34)
 R 232 (A,31,54)
 R 237 (B,33,45)

RS1/16SS562J
 RS1/16SS472J
 RS1/16SS471J
 RS1/16SS0R0J
 RS1/16SS221J

R 1892 (B,69,22) RS1/16SS102J
 R 1893 (B,65,13) RS1/10SR222J
 R 1894 (B,63,13) RS1/10SR222J
 R 1895 (B,62,13) RS1/10SR222J

R 240 (B,34,40)
 R 245 (A,34,46)
 R 254 (A,37,56)
 R 260 (B,30,27)
 R 264 (A,22,9)

RS1/16SS473J
 RS1/16SS104J
 RS1/16SS104J
 RS1/16SS103J
 RS1/16SS102J

CAPACITORS

B C 1801 (B,144,31) 10 uF CCG1192
 C 1802 (B,89,11) CKSRYB105K10
 C 1803 (B,88,10) CKSSYB104K10
 C 1804 (B,89,13) CKSSYB104K10
 C 1805 (B,90,13) CKSSYB104K10

R 281 (B,33,38)
 R 282 (B,33,39)
 R 283 (B,35,38)
 R 291 (B,33,34)
 R 292 (B,33,36)

RS1/16SS560J
 RS1/16SS560J
 RS1/16SS0R0J
 RS1/16SS560J
 RS1/16SS0R0J

C 1851 (B,68,19) CKSRYB105K10
 C 1852 (B,49,22) CKSSYB104K16
 C 1853 (B,57,9) CKSSYB104K16
 C 1854 (B,24,27) CKSSYB104K16
 C 1855 (B,55,27) CKSSYB104K16

R 293 (B,35,39)
 R 294 (B,27,48)
 R 296 (B,34,43)
 R 301 (A,27,9)
 R 302 (A,28,9)

RS1/16SS0R0J
 RS1/16SS471J
 RS1/16SS0R0J
 RS1/16SS0R0J
 RS1/16SS0R0J

C C 1856 (B,104,19) CCSRCH100D50
 C 1857 (B,103,19) CCSRCH100D50
 C 1858 (B,106,19) CCSRCH100D50
 C 1859 (B,59,14) CKSSYB103K16
 C 1863 (B,59,26) CKSSYB104K16

R 303 (A,27,11)
 R 304 (A,28,11)
 R 305 (A,26,9)
 R 306 (A,26,11)
 R 307 (A,25,9)

RS1/16SS123J
 RS1/16SS123J
 RS1/16SS102J
 RS1/16SS472J
 RS1/16SS102J

C 1867 (B,66,24) CKSSYB104K16
 C 1911 (B,142,19) CKSRYB104K16
 C 1912 (B,134,26) CKSRYB104K16

R 308 (A,25,11)
 R 309 (A,35,6)
 R 310 (B,30,9)
 R 311 (B,30,10)
 R 312 (B,30,11)

RS1/16SS472J
 RS1/16SS473J
 RS1/16SS472J
 RS1/16SS472J
 RS1/16SS472J

C
Unit Number: CWX4023
Unit Name : CD Core Unit (S11.6STD)

R 313 (B,30,12)
 R 701 (A,21,38)
 R 702 (A,23,38)
 R 706 (A,32,42)
 R 708 (B,28,26)

RS1/16SS123J
 RS1/16SS123J
 RS1/16SS101J
 RS1/16SS101J
 RS1/16SS221J
 RS1/16SS0R0J

R 709 (B,29,28)

RS1/16SS0R0J

MISCELLANEOUS

IC 201 (B,23,37) IC PE5791A
 IC 301 (A,37,11) IC BD8223EFV
 Q 101 (B,11,53) Transistor 2SA1577
 Q 102 (B,15,54) Chip Digital Transistor LTA123JUB
 X 201 (B,25,49) Ceramic Resonator 16.934 MHz CSS1603

CAPACITORS

C 104 (B,12,57)
 C 203 (B,22,47)
 C 209 (B,28,47)
 C 210 (B,33,43)
 C 211 (B,33,41)

CKSQYB475K6R3
 CKSSYB104K10
 CKSRYB104K16
 CKSSYB104K10
 CKSSYB104K10

E S 901 (A,42,53) Spring Switch(HOME) CSN1080
 S 903 (B,21,12) Spring Switch(DSCSNS) CSN1081
 CN101 (A,16,58) Connector CKS4808
 CN701 (A,25,29) Connector CKS6146

C 212 (B,22,28)
 C 213 (B,18,26)
 C 214 (B,17,26)
 C 215 (B,19,28)
 C 216 (B,12,33)

CKSSYB104K10
 CKSSYB332K50
 CKSSYB473K16
 CKSSYB104K10
 CKSSYB182K50

RESISTORS

R 101 (B,6,57) RS1/10SR2R4J
 R 102 (B,8,57) RS1/10SR2R4J
 R 103 (B,9,57) RS1/10SR2R7J
 R 108 (B,18,55) RS1/16SS105J
 R 109 (B,12,50) RS1/16SS222J

C 217 (B,10,34)
 C 218 (B,10,36)
 C 219 (B,14,34)
 C 220 (A,18,38)
 C 221 (B,14,32)

CCSSCH560J50
 CCSSCH4R0C50
 CKSSYB104K10
 CKSSYB104K10
 CKSSYB104K10

F R 201 (A,24,11) RS1/16SS0R0J
 R 202 (A,23,9) RS1/16SS0R0J
 R 214 (B,18,28) RS1/16SS103J

C 222 (B,13,37)
 C 223 (B,12,42)
 C 224 (B,13,45)
 C 225 (B,13,46)

CKSSYB104K10
 CCSSCH680J50
 CCSSCH470J50
 CKSSYB103K16

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	5	6
	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
C 228	(B,10,33)	CCSSCH270J50
C 229	(B,9,40)	CKSSYB104K10
C 233	(B,32,46)	CKSSYB103K16
C 236	(B,8,40)	CKSSYB104K10
C 238	(A,25,44)	CKSRYB104K16
C 299	(A,26,41)	CKSSYB104K10
C 302	(B,28,12)	CKSSYB102K50
C 303	(B,29,12)	CKSSYB102K50
C 304	(B,27,12)	CKSSYB223K16
C 305	(B,26,12)	CKSSYB104K10
C 306	(A,31,7)	CKSSYB104K10
C 307	(A,41,19)	CKSRYB105K10
C 308	(A,31,15)	CKSRYB105K10
C 710	(A,34,42)	CKSSYB102K50

D

Unit Number : (C,E,F)
: (D)

Unit Name : Keyboard Unit

MISCELLANEOUS

IC 1801	(B,85,23) IC	PD6538A
IC 1802	(A,159,37) Remote IC	GP1UXC14RK
D 1851	(A,16,31) LED(C,E,F)	SMLE12BC7T(NP)
	(A,16,31) LED(Red) (D)	SML-D12V8W(PQ)
D 1852	(A,53,31) LED(C,E,F)	SMLE12BC7T(NP)
	(A,53,31) LED(Red) (D)	SML-D12V8W(PQ)
D 1853	(A,17,21) LED(C,E,F)	SMLE12BC7T(NP)
	(A,17,21) LED(Red) (D)	SML-D12V8W(PQ)
D 1854	(A,6,42) LED(C,E,F)	SMLE12BC7T(NP)
	(A,6,42) LED(Red) (D)	SML-D12V8W(PQ)
D 1855	(A,63,6) LED(C,E,F)	SMLE12BC7T(NP)
	(A,63,6) LED(Red) (D)	SML-D12V8W(PQ)
D 1856	(A,55,21) LED(C,E,F)	SMLE12BC7T(NP)
	(A,55,21) LED(Red) (D)	SML-D12V8W(PQ)
D 1857	(A,75,6) LED(C,E,F)	SMLE12BC7T(NP)
	(A,75,6) LED(Red) (D)	SML-D12V8W(PQ)
D 1858	(A,88,6) LED(C,E,F)	SMLE12BC7T(NP)
	(A,88,6) LED(Red) (D)	SML-D12V8W(PQ)
D 1859	(A,53,11) LED(C,E,F)	SMLE12BC7T(NP)
	(A,53,11) LED(Red) (D)	SML-D12V8W(PQ)
D 1860	(A,16,11) LED(C,E,F)	SMLE12BC7T(NP)
	(A,16,11) LED(Red) (D)	SML-D12V8W(PQ)
D 1861	(A,7,20) LED(C,E,F)	SMLE12BC7T(NP)
	(A,7,20) LED(Red) (D)	SML-D12V8W(PQ)
D 1862	(A,101,6) LED(C,E,F)	SMLE12BC7T(NP)
	(A,101,6) LED(Red) (D)	SML-D12V8W(PQ)
D 1863	(A,113,6) LED(C,E,F)	SMLE12BC7T(NP)
	(A,113,6) LED(Red) (D)	SML-D12V8W(PQ)
D 1864	(A,139,6) LED(C,E,F)	SMLE12BC7T(NP)
	(A,139,6) LED(Red) (D)	SML-D12V8W(PQ)
D 1865	(A,126,6) LED(C,E,F)	SMLE12BC7T(NP)
	(A,126,6) LED(Red) (D)	SML-D12V8W(PQ)
D 1866	(A,63,22) White LED	SMLXA4WBETW1(Z1)
X 1801	(B,84,10) Ceramic Resonator 5.00 MHz	CSS1547
S 1842	(A,36,21) Encoder(ROTARY COMMANDER)	CSD1168
CN1821	(B,108,10) Connector	CKS6287

	7	8
	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
CN1911	(A,155,22) Connector	CKS6267
JA1921	(A,154,8) Jack	CKN1090
V 1801	(A,106,23) Segment LCD	CAW2017

RESISTORS

R 1801	(B,90,8)	RS1/10SR222J
R 1802	(B,88,8)	RS1/10SR222J
R 1803	(B,147,29)	RS1/10SR101J
R 1822	(B,54,16)	RS1/10SR273J
R 1851	(B,20,19) (C,E,F)	RS1/4SA471J
	(B,20,19) (D)	RS1/4SA681J
R 1852	(B,19,12) (C,E,F)	RS1/4SA821J
	(B,19,12) (D)	RS1/4SA102J
R 1853	(B,49,11) (C,E,F)	RS1/4SA821J
	(B,49,11) (D)	RS1/4SA102J
R 1854	(B,59,13) (C,E,F)	RS1/4SA821J
	(B,59,13) (D)	RS1/4SA102J
R 1855	(B,42,10) (C,E,F)	RS1/4SA471J
	(B,42,10) (D)	RS1/4SA561J
R 1856	(B,14,19) (C,E,F)	RS1/4SA681J
R 1857	(B,140,17) (C,E,F)	RS1/4SA821J
	(B,140,17) (D)	RS1/4SA102J
R 1858	(B,144,19) (C,E,F)	RS1/4SA821J
	(B,144,19) (D)	RS1/4SA102J
R 1859	(B,56,17)	RS1/4SA221J
R 1860	(B,59,17)	RS1/4SA221J
R 1869	(B,12,19) (D)	RS1/10SR0R0J
R 1870	(B,11,19) (C,E,F)	RS1/10SR0R0J

CAPACITORS

C 1801	(B,148,33) 10 uF	CCG1192
C 1802	(B,89,11)	CKSRYB105K10
C 1803	(B,89,12)	CKSSYB104K10
C 1804	(B,95,17)	CKSSYB104K10
C 1805	(B,94,17)	CKSSYB104K10
C 1911	(B,133,28)	CKSRYB104K16
C 1912	(B,138,27)	CKSRYB104K16

E

Unit Number : QWM3365
Unit Name : BT Unit

MISCELLANEOUS

IC 21	(A,14,48) IC	NJM2846DL3-18
IC 22	(A,29,47) IC	S-1206B33-U3
CN21	(A,36,27) Connector	CKS6346
CN22	(A,42,45) Connector	VKN1189

RESISTORS

R 28	(A,4,32)	RS1/10SR102J
R 29	(A,5,26)	RS1/10SR102J
R 30	(A,5,24)	RS1/10SR102J

CAPACITORS

C 21	(A,26,41)	CEVQW221M6R3
C 22	(A,7,47)	CEVW220M6R3
C 23	(A,8,39)	CEVW470M6R3
C 24	(A,9,53)	CKSRYB105K10

Circuit Symbol and No.

Part No.

C 26	(A,33,38) 10 uF	CCG1192
C 28	(A,23,49)	CEVW470M6R3
C 29	(A,28,51)	CKSRYB105K10
C 31	(A,35,46)	CKSRYB103K50
C 33	(A,22,54) 10 uF	CCG1192
C 34	(A,42,27)	CKSRYB105K10
C 36	(A,35,49)	CKSRYB104K16

Miscellaneous Parts List

	Pickup Unit(P10.6)(Service)	CXX3556
M 1	Motor Unit(SPINDLE)	CXE2273
M 2	Motor Unit(LOADING/CARRIAGE)	CXC4026