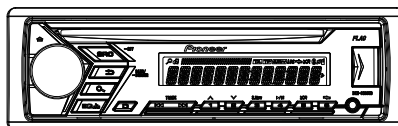


Service Manual



DEH-S100UB/XEVIEW5

ORDER NO.
CRT6099

CD RDS RECEIVER

DEH-S100UB/XEVIEW5
DEH-S100UBA/XEVIEW5
DEH-S100UBG/XEVIEW5
DEH-S100UBB/XEVIEW5
DEH-S101UB/XEVIEW5
DEH-S101UBG/XEVIEW5
DEH-S010UB/XEVIEW5

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



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.

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.

CLASS 1 LASER PRODUCT

Laser diode characteristics

Wave length : 785 nm to 814 nm

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

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.

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 manufacturer.
Discard used batteries according to the manufacturer's instructions.

CONTENTS

SAFETY INFORMATION.....	2
1. SERVICE PRECAUTIONS.....	4
1.1 SAFETY PRECAUTIONS.....	4
1.2 NOTES ON DISASSEMBLY / ASSEMBLY.....	4
1.3 NOTES ON REPLACING PARTS.....	5
1.4 NOTES ON ADJUSTMENT.....	5
1.5 OTHERS.....	5
2. SPECIFICATIONS.....	5
2.1 SPECIFICATIONS.....	5
2.2 DISC/CONTENT FORMAT.....	5
3. BASIC ITEMS FOR SERVICE.....	6
3.1 CHECK POINTS AFTER SERVICING.....	6
3.2 PCB LOCATIONS.....	6
3.3 JIGS LIST.....	7
3.4 CLEANING.....	7
4. BLOCK DIAGRAM.....	8
4.1 BLOCK DIAGRAM.....	8
4.2 POWER SUPPLY SYSTEM FIGURE.....	9
5. DIAGNOSIS.....	10
5.1 OPERATIONAL FLOWCHART.....	10
5.2 ERROR CODE LIST.....	11
5.3 CONNECTOR FUNCTION DESCRIPTION.....	13
5.4 FUSE CHECK.....	14
6. SERVICE MODE.....	15
6.1 DISPLAY TEST MODE1.....	15
6.2 DISPLAY TEST MODE2.....	16
6.3 SOFTWARE VERSION UP METHOD.....	17
6.4 CD TEST MODE.....	18
7. DISASSEMBLY.....	19
8. EACH SETTING AND ADJUSTMENT.....	25
8.1 ADJUSTMENT REQUIRED WHEN THE UNIT IS REPLACED.....	25
8.2 CD ADJUSTMENT.....	25
8.3 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT.....	26
9. EXPLODED VIEWS AND PARTS LIST.....	28
9.1 PACKING SECTION.....	28
9.2 EXTERIOR SECTION.....	30
9.3 CD MECHANISM MODULE.....	32
10. SCHEMATIC DIAGRAM.....	34
10.1 TUNER AMP UNIT(VEHICLE I/F).....	34
10.2 TUNER AMP UNIT(SYSTEM REGULATOR).....	35
10.3 TUNER AMP UNIT(BT).....	36
10.4 TUNER AMP UNIT(OTHER SUPPLY).....	37
10.5 TUNER AMP UNIT(SYSTEM u-COM).....	38
10.6 TUNER AMP UNIT(iPod I/F).....	39
10.7 TUNER AMP UNIT(E-VOL).....	40
10.8 TUNER AMP UNIT(LITHIO).....	41
10.9 TUNER AMP UNIT(S11.6 I/F).....	42
10.10 TUNER AMP UNIT(EXTERNAL I/F).....	43
10.11 TUNER AMP UNIT(POWER AMP).....	44
10.12 KEYBOARD UNIT.....	45
10.13 CD CORE UNIT.....	46
10.14 WAVEFORMS.....	47
11. PCB CONNECTION DIAGRAM.....	49
11.1 TUNER AMP UNIT.....	49
11.2 KEYBOARD UNIT.....	51
11.3 CD CORE UNIT.....	52
12. ELECTRICAL PARTS LIST.....	54

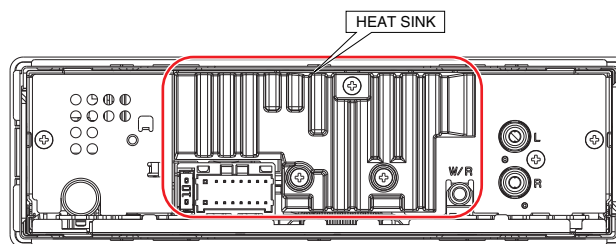
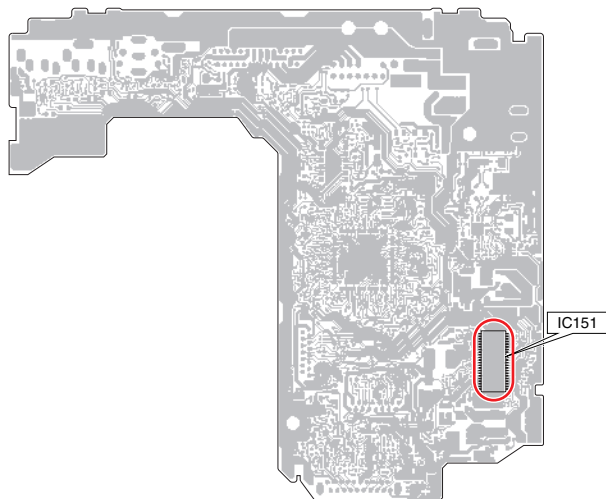
1. SERVICE PRECAUTIONS

1.1 SAFETY PRECAUTIONS



- 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.
- Please keep the distance of more than 13 cm from focus lens for safety when you check pickup and make adjustment, and do not look straight at Laser Beam for more than 10 seconds.
-  area and a heat sink becomes hot areas. Be careful not to burn yourself.

TUNER AMP UNIT (Side A)



1.2 NOTES ON DISASSEMBLY / ASSEMBLY

- 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.
- To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to CRT4759 "3.4 HOW TO REMOVE AND INSTALL THE CD CORE UNIT".
- Please be sure to conduct line process to original status if you make assembling after repair.

1.3 NOTES ON REPLACING PARTS

- Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.
- Please be careful of not to apply static charge onto integrated circuits, etc, when you conduct repair work.
Especially, please use soldering iron with its tip grounded.
Also, please use a pair of tweezers with static charge protection capability if there is the possibility of contacting to device terminals, and avoid the use of metal-made tweezers.
- The part listed below is difficult to replace as a discrete component part.
When the part listed in the table is defective, replace whole Assy.

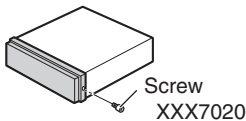
Function	Ref No.	Part No.	Reason
System Power Supply	IC151	BD49101AEFS	with Heat pad

1.4 NOTES ON ADJUSTMENT

- Some of the adjustment is required when the part is replaced.
Please refer to “8. EACH SETTING AND ADJUSTMENT”.

1.5 OTHERS

- **Notes on soldring**
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.
- **To secure the front panel**
The front panel can be secured with the supplied screw.



2. SPECIFICATIONS

2.1 SPECIFICATIONS

For all items except the backup current, refer to the Owner's Manual.

Backup current..... 4.0 mA or less

2.2 DISC/CONTENT FORMAT



3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

A 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:

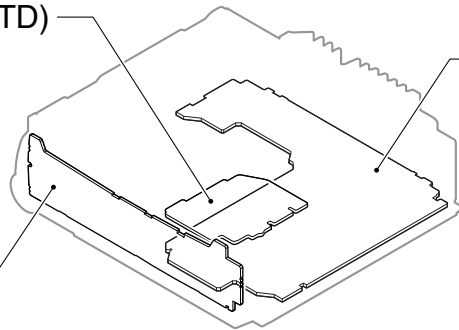
Item to be checked regarding audio
Distortion
Noise
Volume too low
Volume too high
Volume fluctuating
Sound interrupted

3.2 PCB LOCATIONS

C CD Core Unit (S11.6STD)

A Tuner Amp Unit

B Keyboard Unit



A: DEH-S100UB/XEVEW5
B: DEH-S100UBA/XEVEW5
C: DEH-S100UBG/XEVEW5
D: DEH-S100UBB/XEVEW5

E: DEH-S101UB/XEVEW5
F: DEH-S101UBG/XEVEW5
G: DEH-S010UB/XEVEW5

Unit Name : Tuner Amp Unit
Unit Number : QWM4709(A)
Unit Number : QWM4710(B)
Unit Number : QWM4711(C)
Unit Number : QWM4712(D)
Unit Number : QWM4713(E)
Unit Number : QWM4714(F)
Unit Number : QWM4744(G)

Unit Name : Keyboard Unit
Unit Number : QWM4658(A)
Unit Number : QWM4659(B)
Unit Number : QWM4660(C)
Unit Number : QWM4668(D)
Unit Number : QWM4661(E)
Unit Number : QWM4662(F)
Unit Number : QWM4748(G)

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

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)

● Grease List

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

3.4 CLEANING



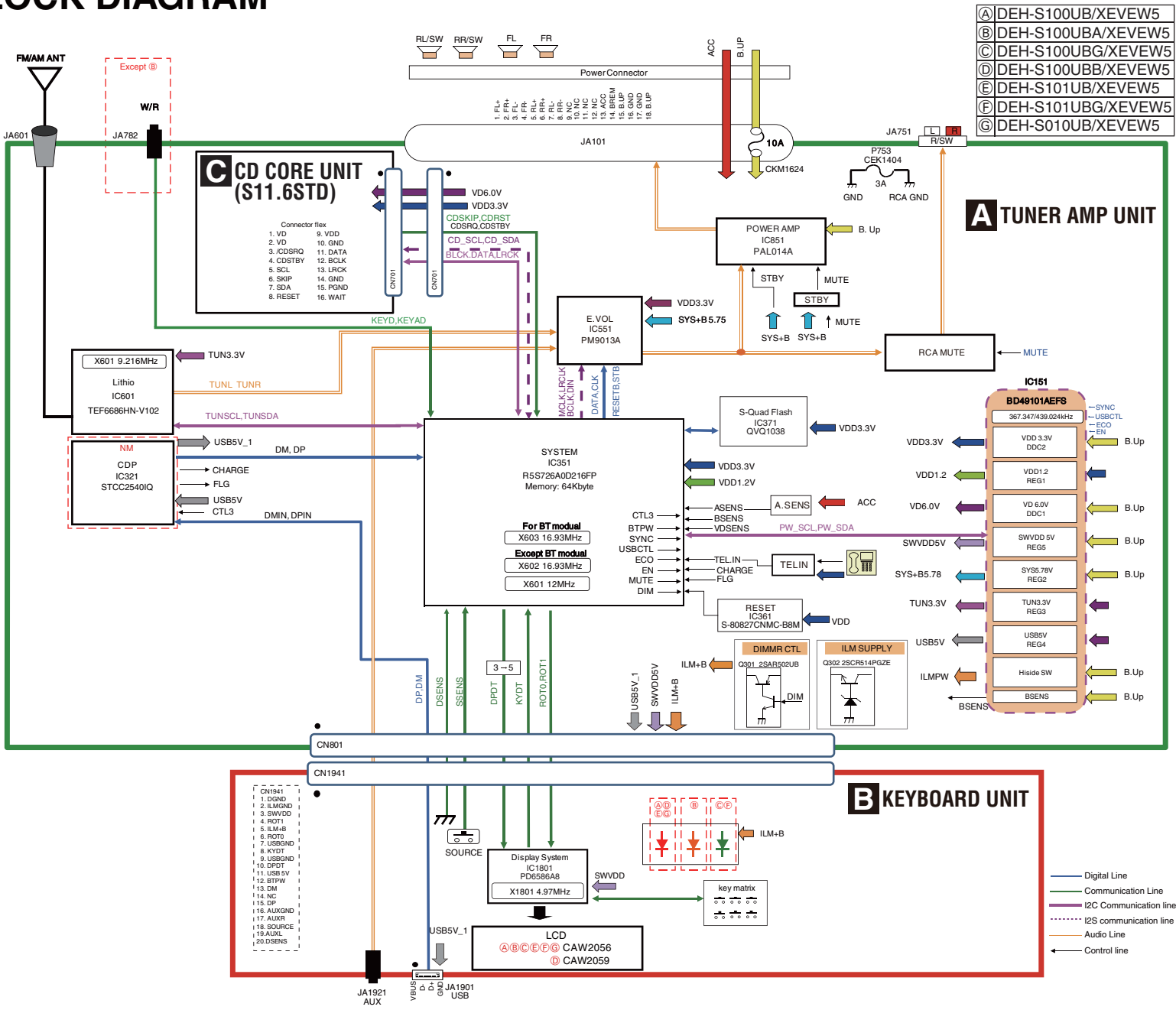
Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

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

4. BLOCK DIAGRAM

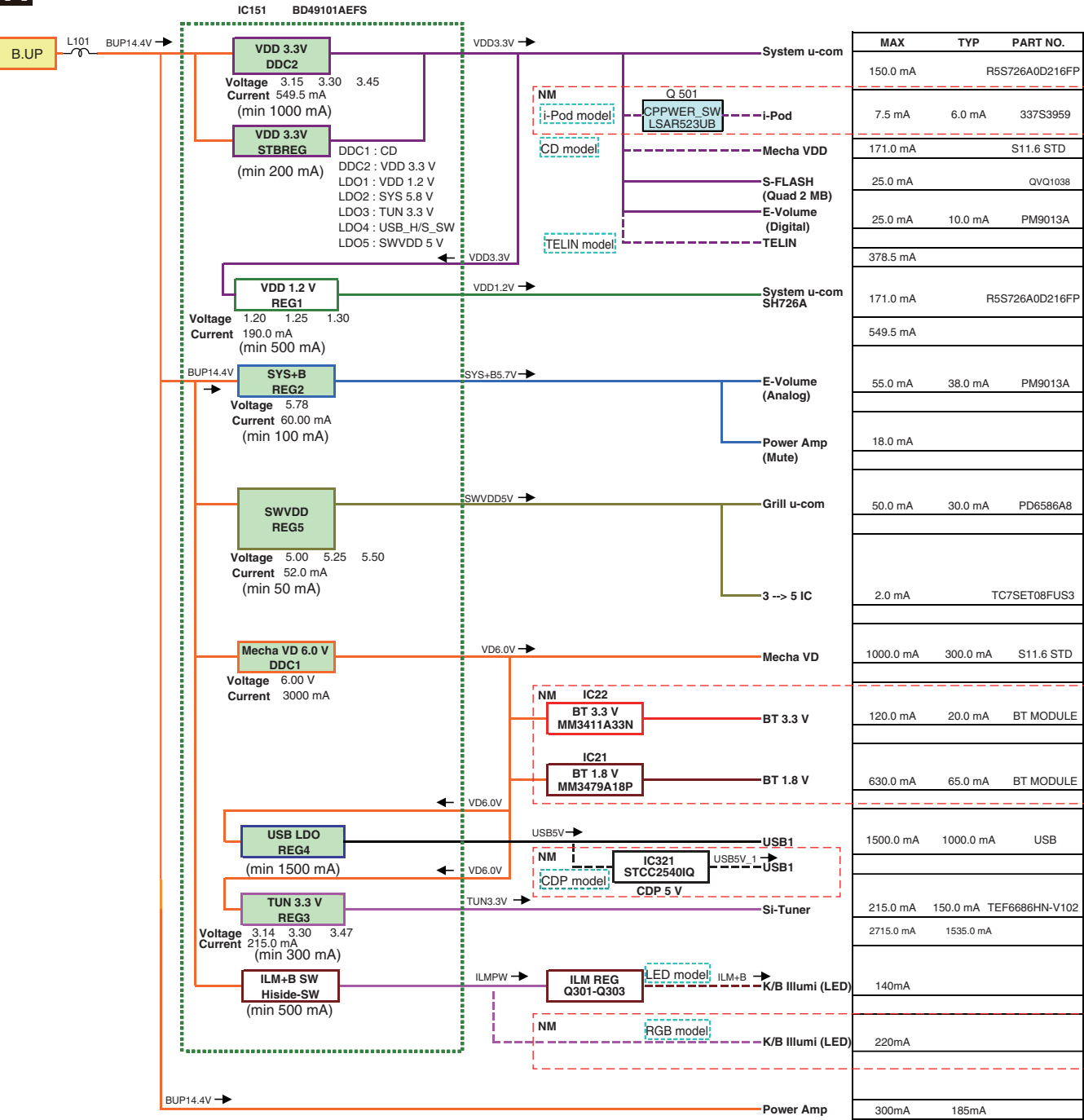
4.1 BLOCK DIAGRAM

4. BLOCK DIAGRAM



4.2 POWER SUPPLY SYSTEM FIGURE

A TUNER AMP UNIT

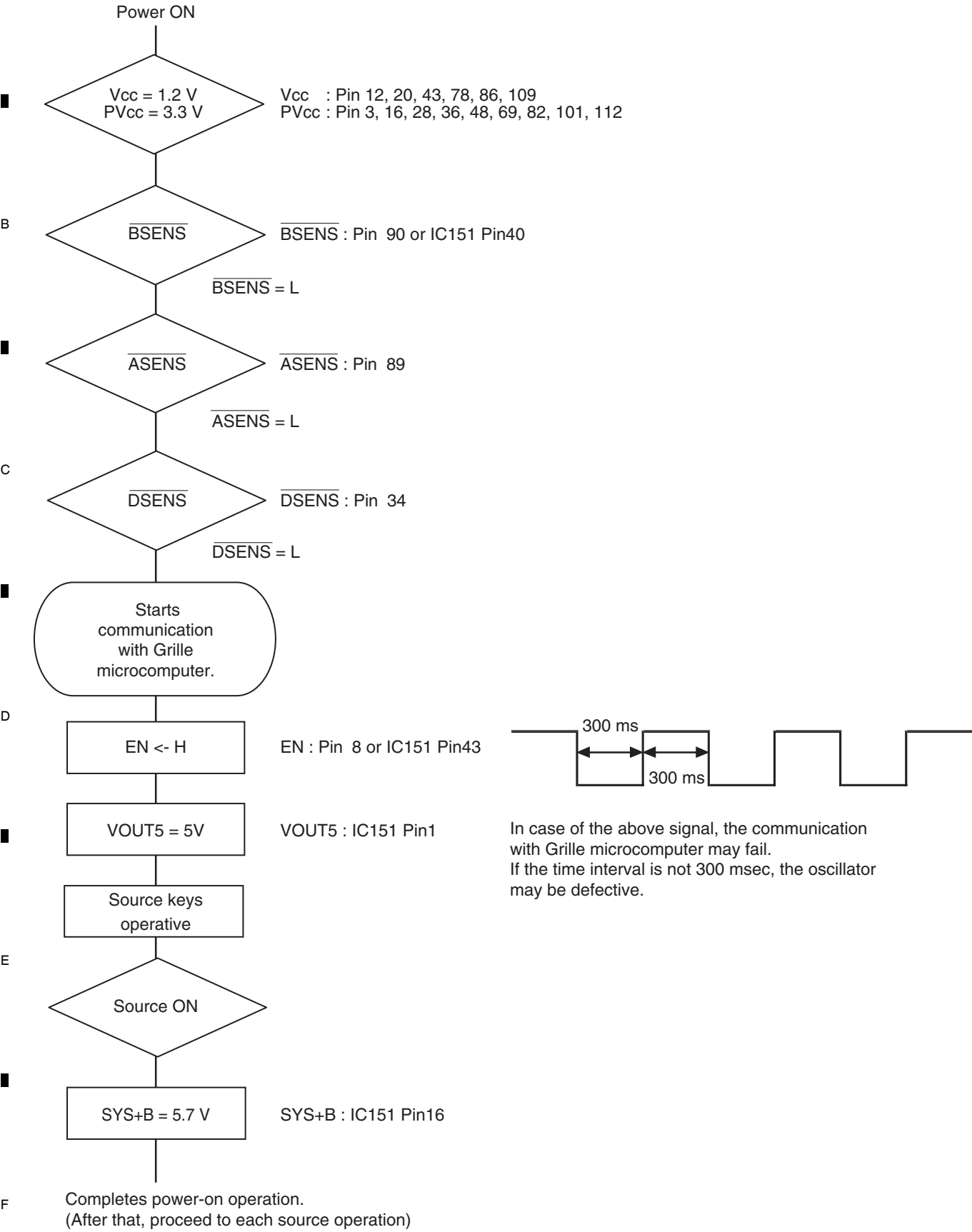


5. DIAGNOSIS

5.1 OPERATIONAL FLOWCHART

A

Signal on System ucom(IC351)



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	6-digit display	4-digit display
ERROR-xx	ERR-xx	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	Servo-related errors
1x	
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

Common

AMP ERROR

- This unit fails to operate or the speaker connection is incorrect.
 - Check the speaker connection.
 - Check the power IC and its peripheral circuit.

NO XXXX (NO TITLE, for example)

- There is no embedded text information.
 - Switch the display or play another track/file.

CD player

ERROR-07, 11, 12, 17, 30

- The disc is dirty.
 - Clean the disc.
- The disc is scratched.
 - Replace the disc.

ERROR-07, 10, 11, 12, 15, 17, 30, A0

- There is an electrical or mechanical error.
 - Turn the ignition switch OFF and back to ON, then back to the CD player.

ERROR-15

- The inserted disc is blank.
 - Replace the disc.

ERROR-23

- Unsupported CD format.
 - Replace the disc.

FORMAT 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

- The inserted disc does not contain any playable files.
 - Replace the disc.

SKIPPED

- The inserted disc contains DRM protected files.
 - The protected files are skipped.

PROTECT

- All the files on the inserted disc are embedded with DRM.
 - Replace the disc.

USB device

FORMAT 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 device and connect.
- The connected USB device has security enabled.
 - Follow the USB device instructions to disable the security.

SKIPPED

- The connected USB device contains DRM protected files.
 - The protected files are skipped.

PROTECT

- All the files on the connected USB device are embedded with DRM.
 - Replace the USB device.

N/A USB

- The connected USB device is not supported by this unit.
 - Disconnect your device and replace it with a compatible USB device.

HUB ERROR

- The USB device connected via a USB hub is not supported by this unit.
 - Connect the USB device directly to this unit using a USB cable.

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 device consumes more than maximum allowable current.
 - Disconnect the USB device and do not use it. Turn the ignition switch OFF and back to ACC or ON. Connect only compliant USB devices.

ERROR-19

- Communication failed.
 - Perform one of the following operations, then return to the USB source.
 - Turn the ignition switch OFF and back to ON.
 - Disconnect the USB device.
 - Change to a different source.

ERROR-23

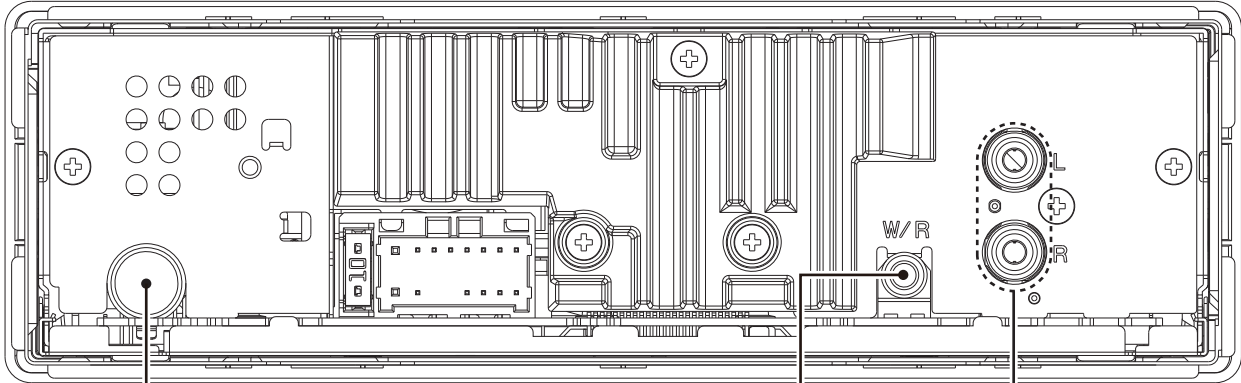
- USB device was not formatted properly.
 - Format the USB device with FAT12, FAT16 or FAT32.

STOP

- There are no songs in the current list.
 - Select a list that contains songs.

5.3 CONNECTOR FUNCTION DESCRIPTION

DEH-S100UB/XEVIEW5
 DEH-S100UBG/XEVIEW5
 DEH-S100UBB/XEVIEW5
 DEH-S101UB/XEVIEW5
 DEH-S101UBG/XEVIEW5
 DEH-S010UB/XEVIEW5



FM/AM ANTENNA INPUT

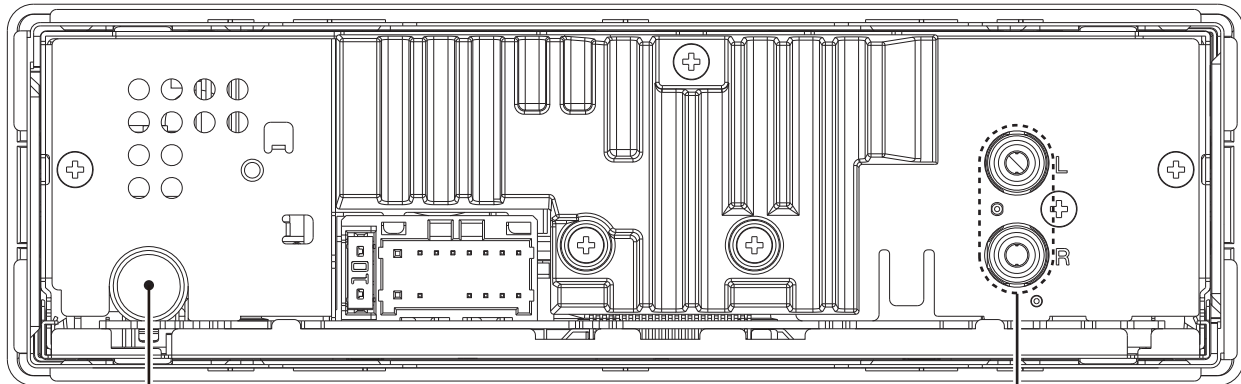
15	13	11	9	7	5	3	1
16	14	12	10	8	6	4	2

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

WIRED
REMOTE
CONTROL

REAR OUTPUT or
SUBWOOFER OUTPUT

DEH-S100UBA/XEVIEW5



FM/AM ANTENNA INPUT

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 BREM |
| 7 RL- | 15 B.UP |
| 8 RR- | 16 GND |

REAR OUTPUT or
SUBWOOFER OUTPUT

5.4 FUSE CHECK

● No sounds and display output of external unit (the condition when the fuse is blown)

This product may receive excessive current if the power line connection of the external product is incorrect, such as Ground connection failure.

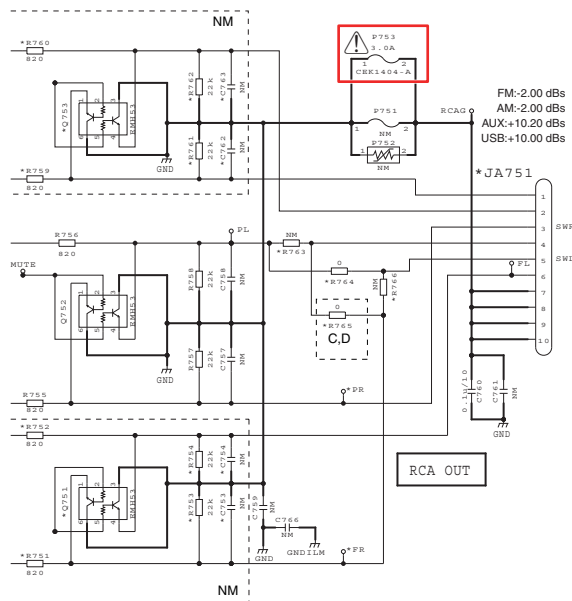
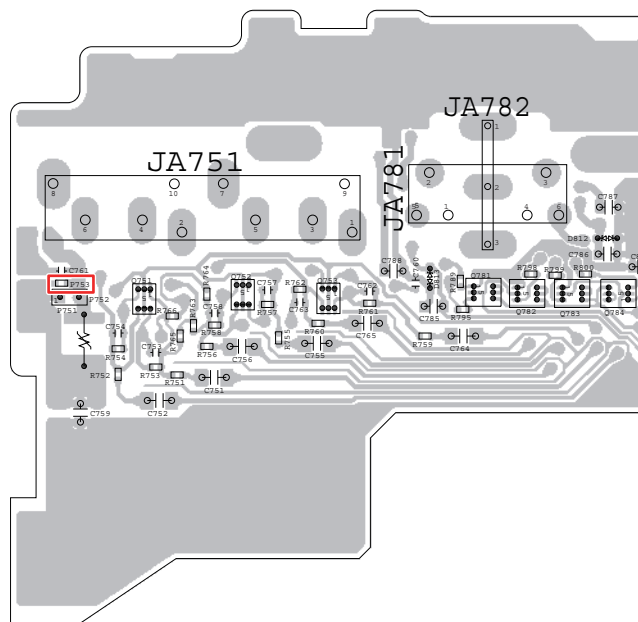
The fuse P753 on TUNER AMP UNIT is used to protect this product from this excessive current.

Even though the fuse is blown, the sounds of Pre-out output and AUX input are output properly and also other functions work correctly.

However, you cannot turn on the external product connected to this product as the power is not supplied if the fuse is blown. (The symptom in this case is the sounds of external product are not output on this product when the external product is connected on a vehicle.)

If you find the symptoms above, check if the fuse is not blown.

If you replace to a new fuse and the fuse is blown again (you cannot turn on the power of external product), check the power connection (Ground) of external product.



5

6

7

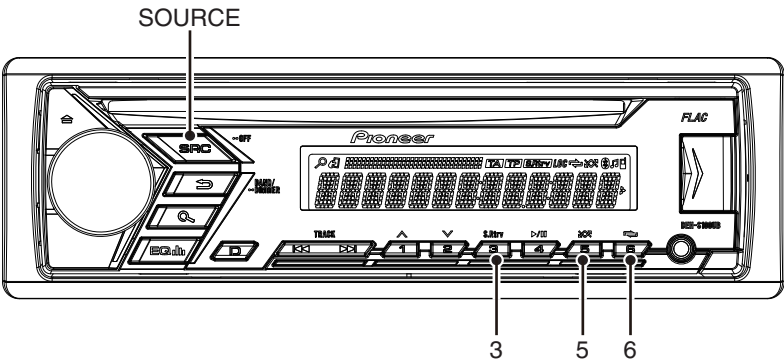
8

6. SERVICE MODE

6.1 DISPLAY TEST MODE1

[How to enter Test mode]

Press and hold "5" and "6" buttons together, and turn BUP and ACC on.



		Grille condition	
Conf. item	Operate	Show LCD	ILM *1
All light up	5 + 6	Draw 1	ILM ①
All light off	SOURCE	No light	No light
Conf. Button feeling (* And change ILM color)	3	Draw 2	ILM ②

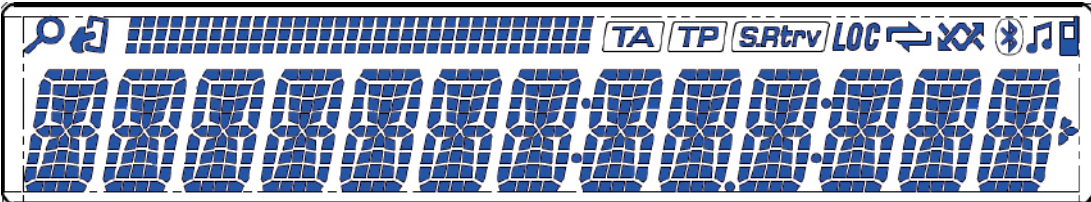
LCD States

Status 1: All light up. Refer to "Draw 1" below for detail.
 States 2: All light off
 Status 3: Refer to "Draw 2" below for detail.

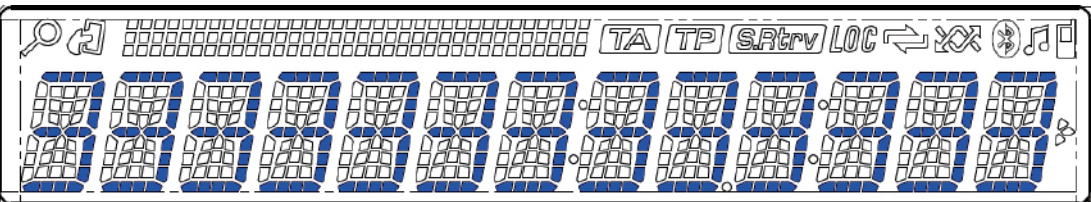
*1

Model	ILM ①	ILM ②
DEH-S100UB/XEVIEW5	RED	RED
DEH-S100UBA/XEVIEW5	AMBER	AMBER
DEH-S100UBG/XEVIEW5	GREEN	GREEN
DEH-S100UBB/XEVIEW5	RED	RED
DEH-S101UB/XEVIEW5	RED	RED
DEH-S101UBG/XEVIEW5	GREEN	GREEN
DEH-S010UB/XEVIEW5	RED	RED

Draw 1



Draw 2



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

[How to enter Test mode]

Press and hold "1" and "3" buttons together, and turn BUP and ACC on.

[Operation key]

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

B

[Test items]

Start display test mode.
Press and hold "1" and "3" buttons together, and turn
BUP and ACC on.

Key Illumination	Icon
Off	All off
On (an initial value)	All off
On (an initial value or setting value of default menu)	All off
On (an initial value or setting value of default menu)	On (lighting condition of normal times)
On (an initial value or setting value of default menu)	On (state when entering test mode)

* Initial condition

System Version information is displayed.

S \$ \$ \$ \$ # # #

\$ PD number For PEA010A, "010A" is displayed
System microcomputer version For Ver.7.01, "701" is displayed

Switching to next display
by pressing "①" + "③" buttons together.

Display is normally updated

Product operation is performed as usual, in appearance.
Switching to next display
by pressing "①" + "③" buttons together.

Display update is stopped

The screen gets still when entering this item.
Switching to next display
by pressing "①" + "③" buttons together.

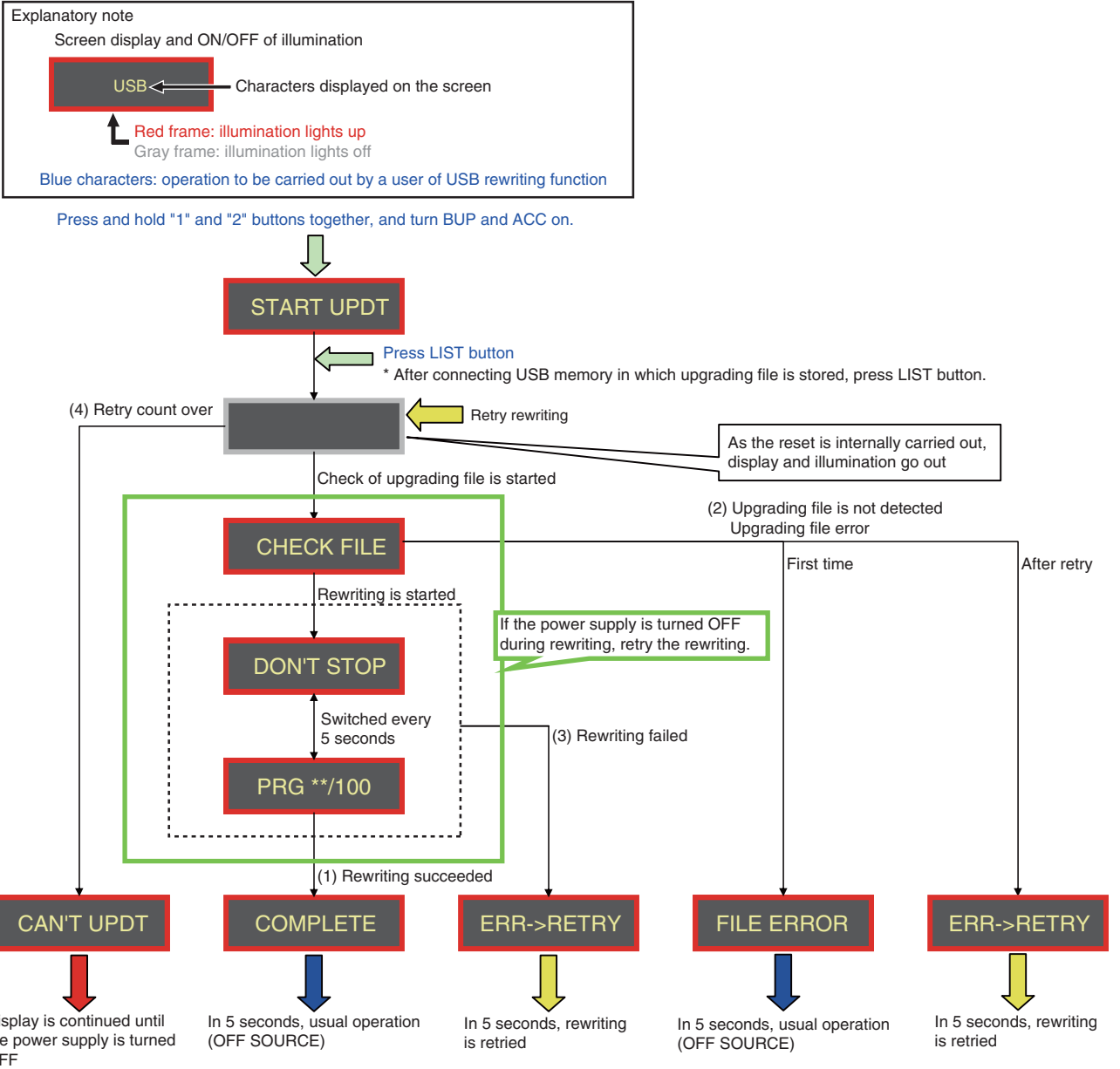
Overview

This mode is used for upgrading the MCU software of system using USB memory.

How to enter in USB rewriting mode

Press and hold "1" and "2" buttons together, and turn BUP and ACC on.

USB rewriting operation flow



Display is continued until the power supply is turned OFF

In 5 seconds, usual operation (OFF SOURCE)

In 5 seconds, rewriting is retried

In 5 seconds, usual operation (OFF SOURCE)

In 5 seconds, rewriting is retried

Result of rewriting

(1) Rewriting succeeded	Displayed when USB rewriting is normally terminated. In 5 seconds, usual operation (OFF SOURCE) is started.
(2) Upgrading file error Upgrading file is not detected	Displayed when there is no upgrading file in USB memory or the data of upgrading file is different. In 5 seconds, usual operation (OFF SOURCE) is started. If the upgrading file error is detected or the upgrading file is not detected after the rewriting is retried, the rewriting is failed. In 5 seconds, rewriting is retried.
(3) Rewriting failed	Displayed when the writing of upgrading file in serial Flash is not normally terminated. Or, displayed if the upgrading file error is detected or the upgrading file is not detected after the rewriting is retried. In 5 seconds, rewriting is retried.
(4) Retry count over	Displayed when the retry becomes unavailable because the retry count is exceeded. The display is continued until the power supply is turned OFF. If the power supply is turned ON again, the display is not changed. Since USB Updating is disabled, it is necessary to replace Flash ROM UNIT.

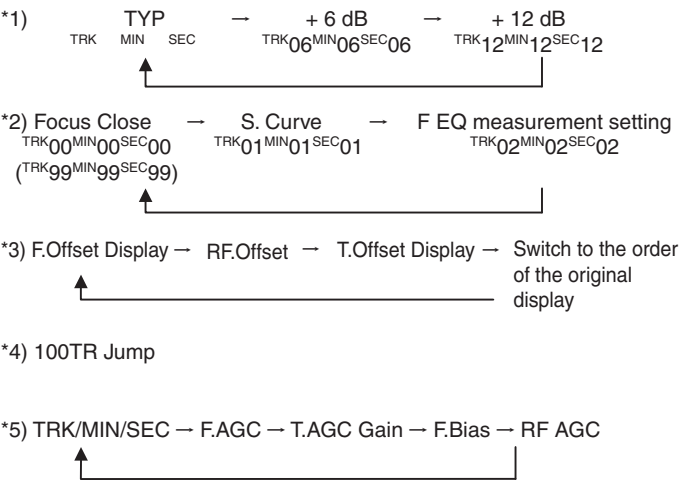
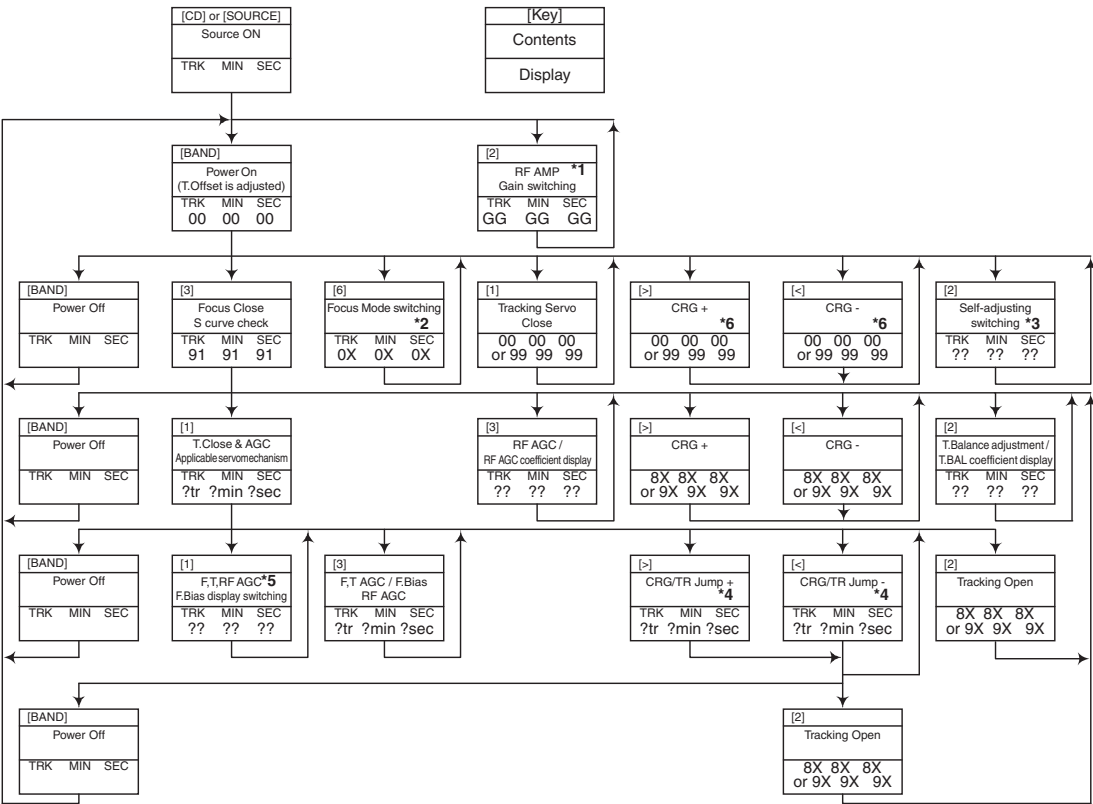
1 2 3 4

6.4 CD TEST MODE

A

● Flow Chart

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



E

[Key]	Operation
	Test Mode
[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

- F
- 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 Release the two latches.
- ➡ 2 Release the two latches and then remove the Panel Assy.

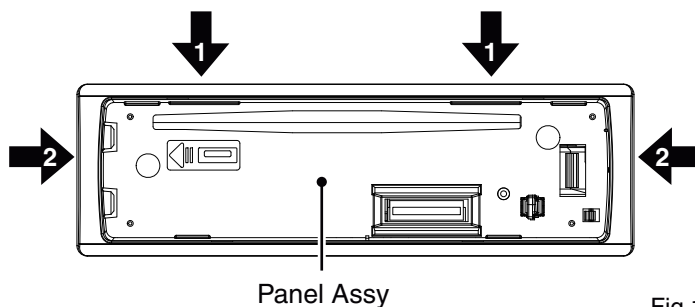
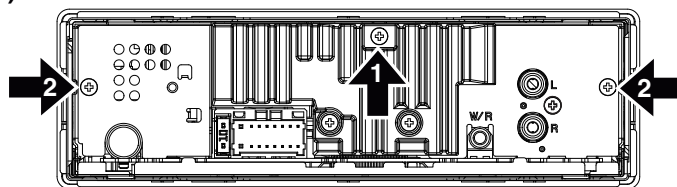


Fig.1

● Removing the CD Mechanism Module (Fig.2)

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



The CD Mechanism Module side is made a bottom.

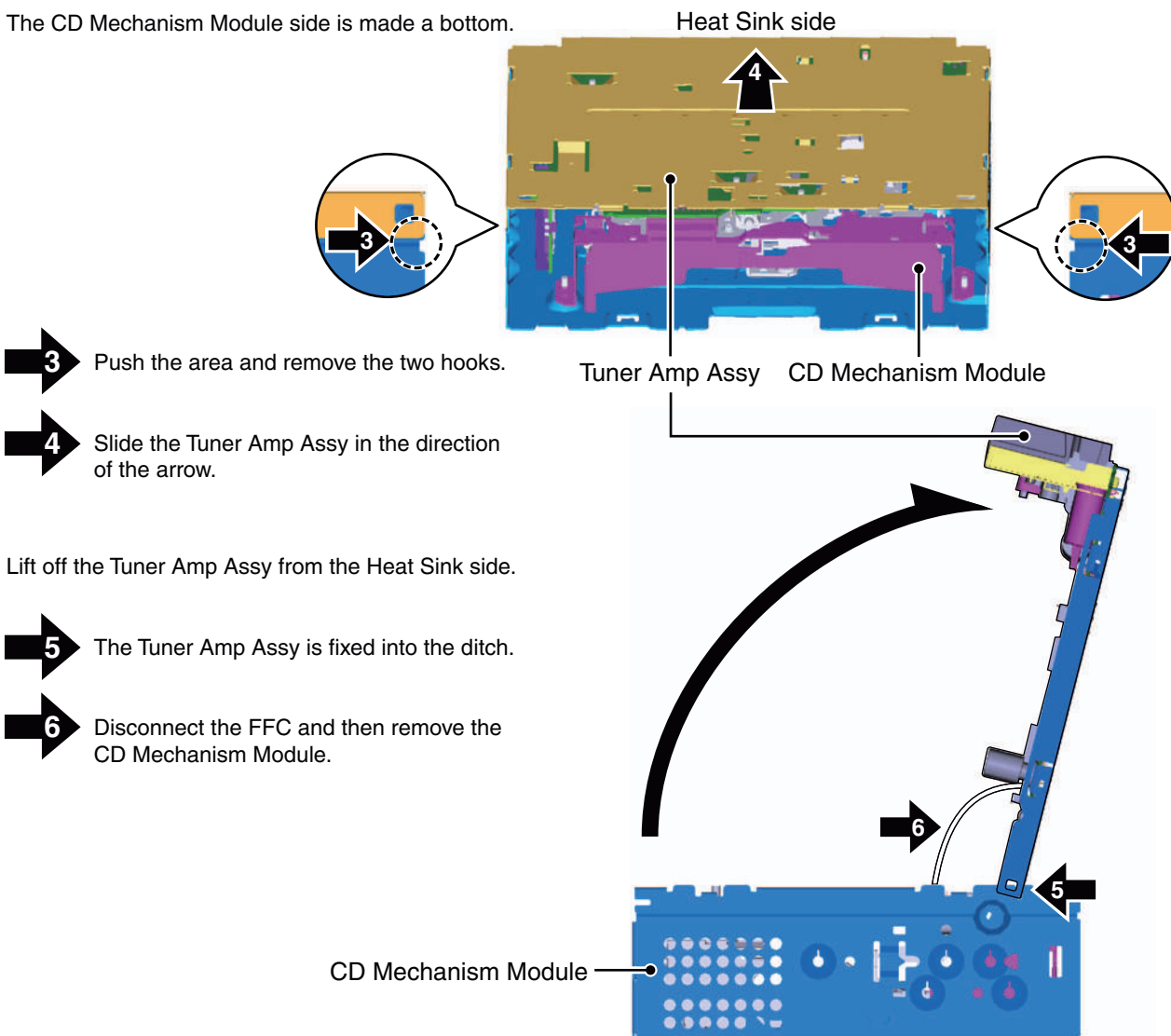


Fig.2

A ● Removing the Tuner Amp Unit (Fig.3)

- ➡ 1 Remove the two screws and then remove the Tuner Amp Unit.

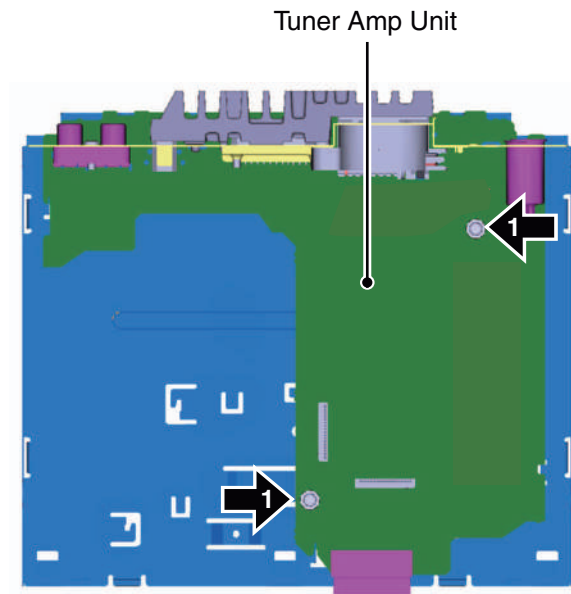


Fig.3

● Attention of removing (Fig.4)

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

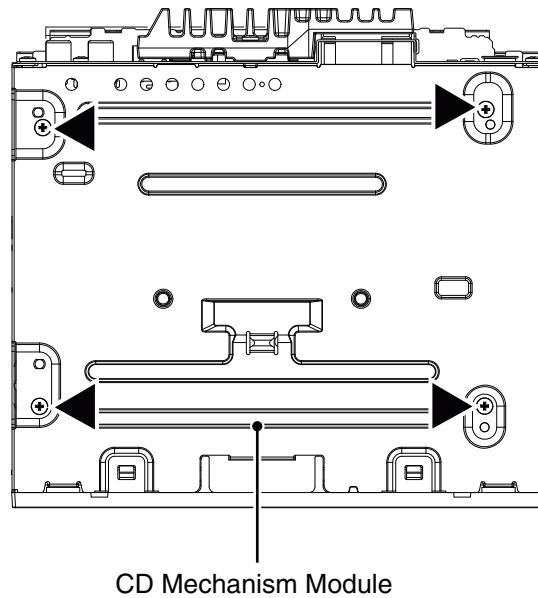


Fig.4

● Disassembling the Panel Part (Fig.5, 6)

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

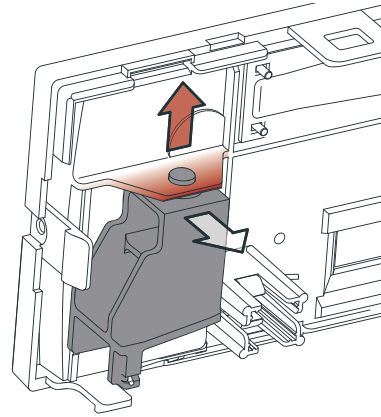


Fig.5

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

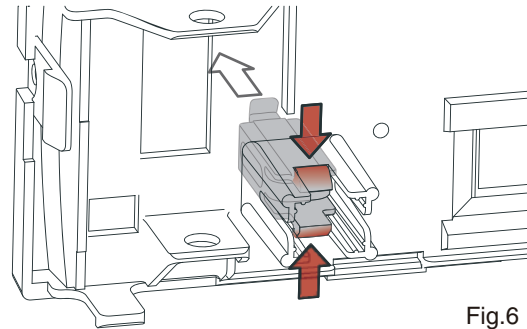


Fig.6

● Assembling the Panel Part (Fig.7, 8, 9)

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

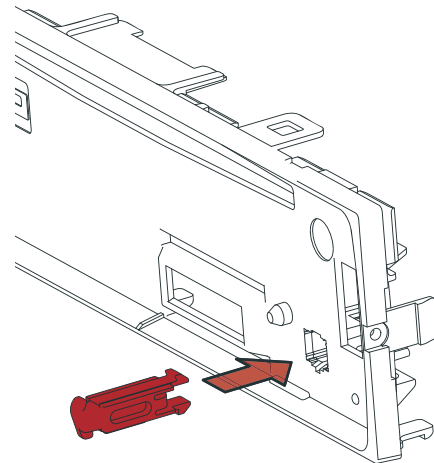


Fig.7

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

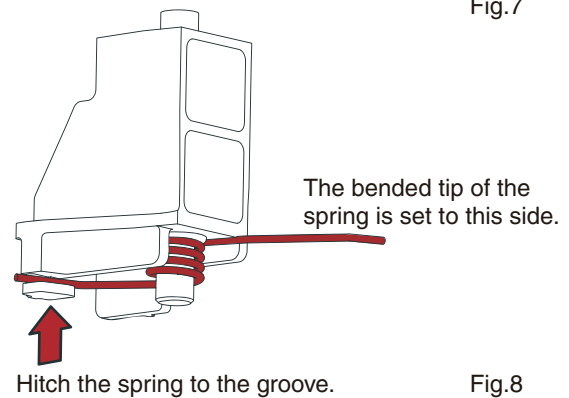


Fig.8

- A 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.

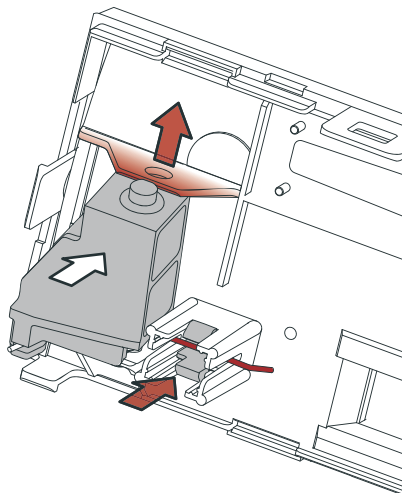


Fig.9

C

D

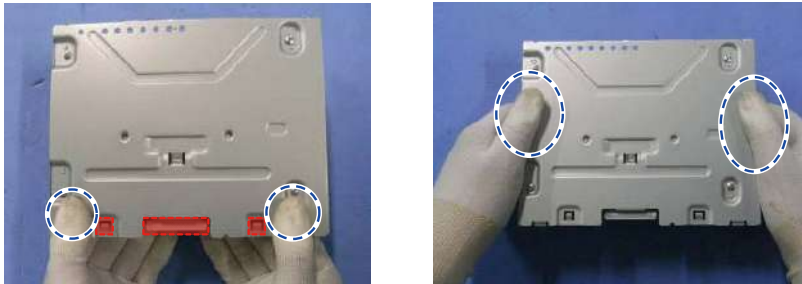
E

F

● 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



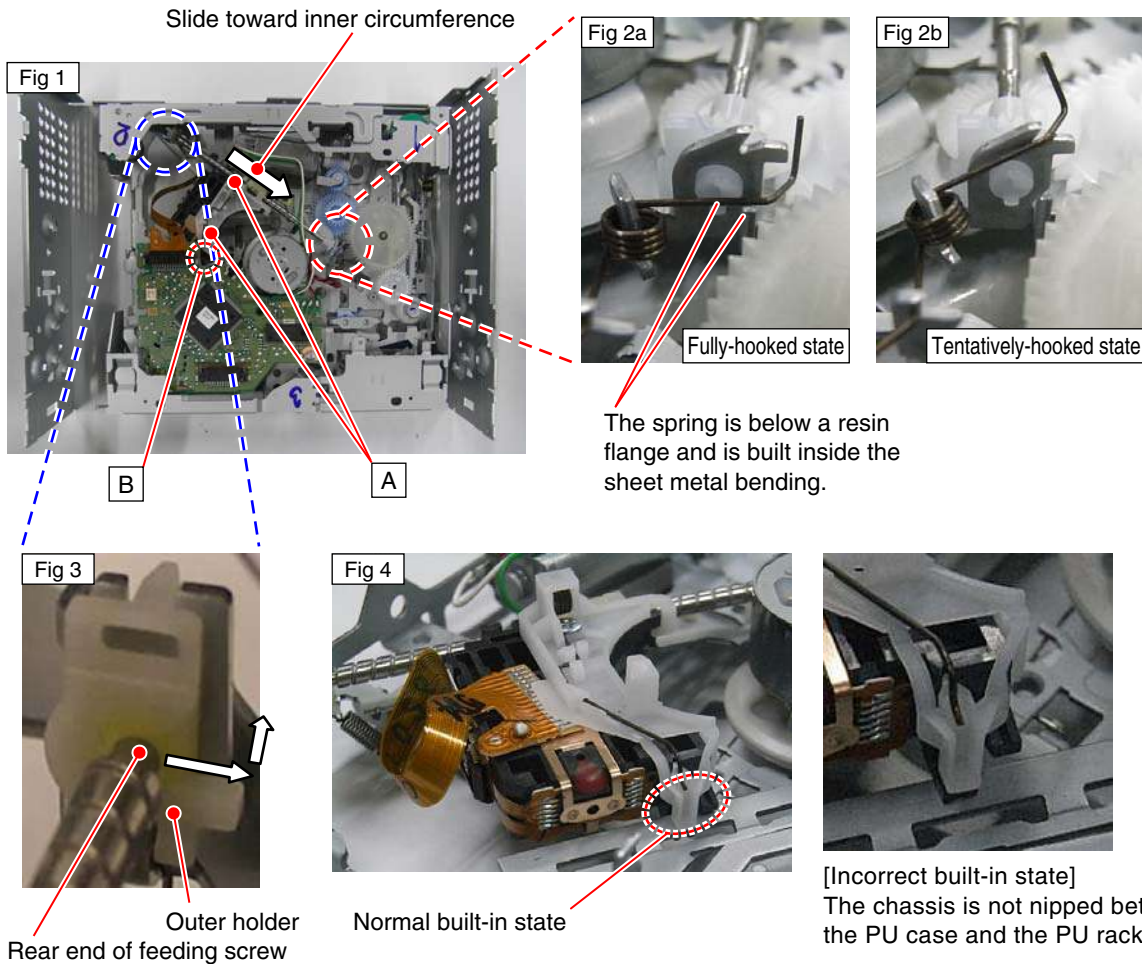
Handling NG



● 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 ADJUSTMENT REQUIRED WHEN THE UNIT IS REPLACED

■ When any of the following assemblies is replaced, it is necessary to perform the adjustment.

Pickup Unit



"8.2 CD ADJUSTMENT"
"8.3 CHECKING THE GRATING AFTER
CHANGING THE PICKUP UNIT"

8.2 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
CD Source 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 [2] key or [3] 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.

A



B

- 9



E

-

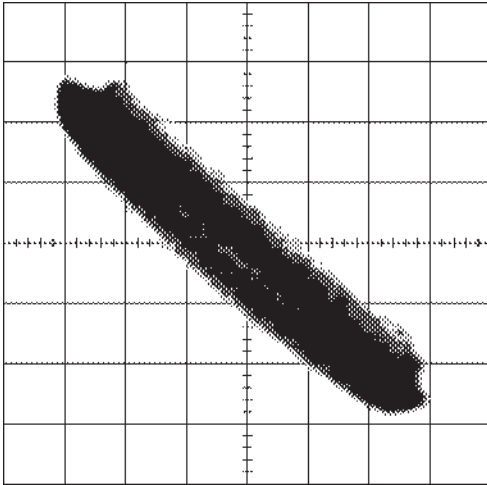
F

4

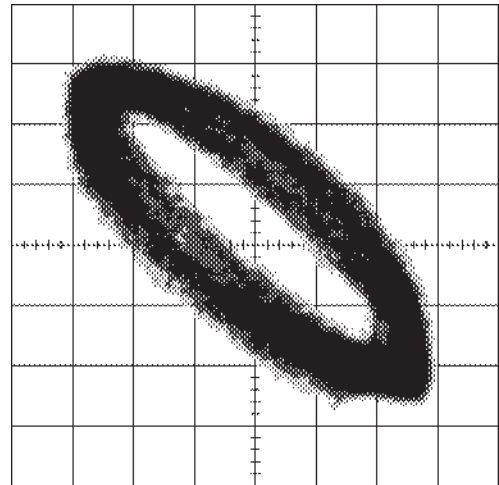
Grating waveform

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

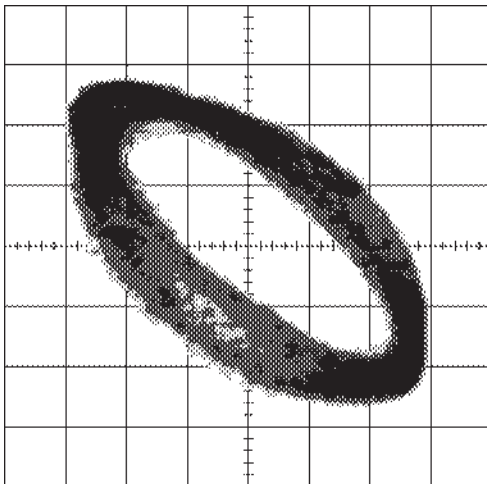
0 degrees



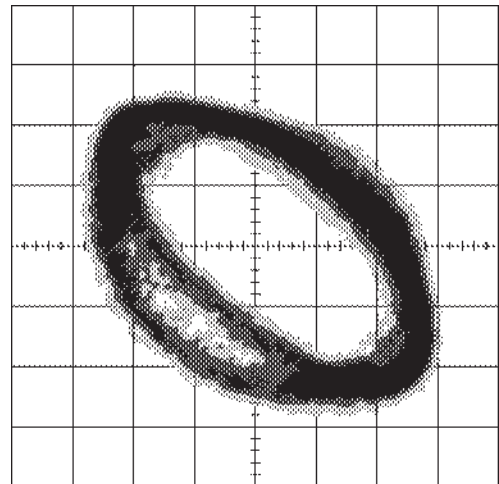
30 degrees



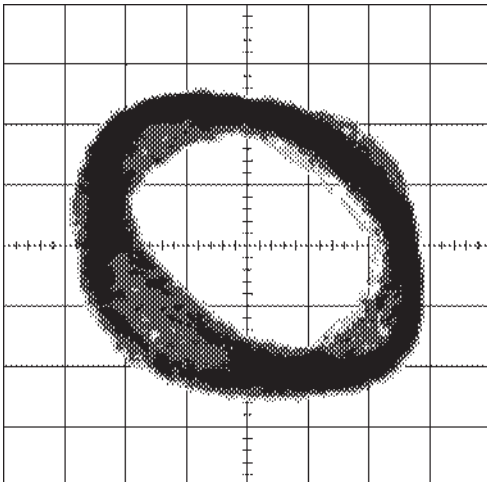
45 degrees



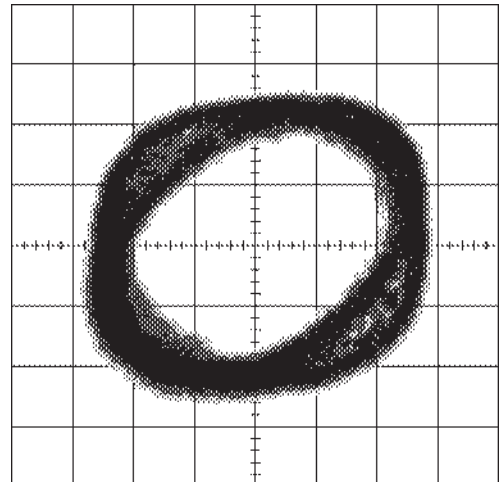
60 degrees



75 degrees



90 degrees

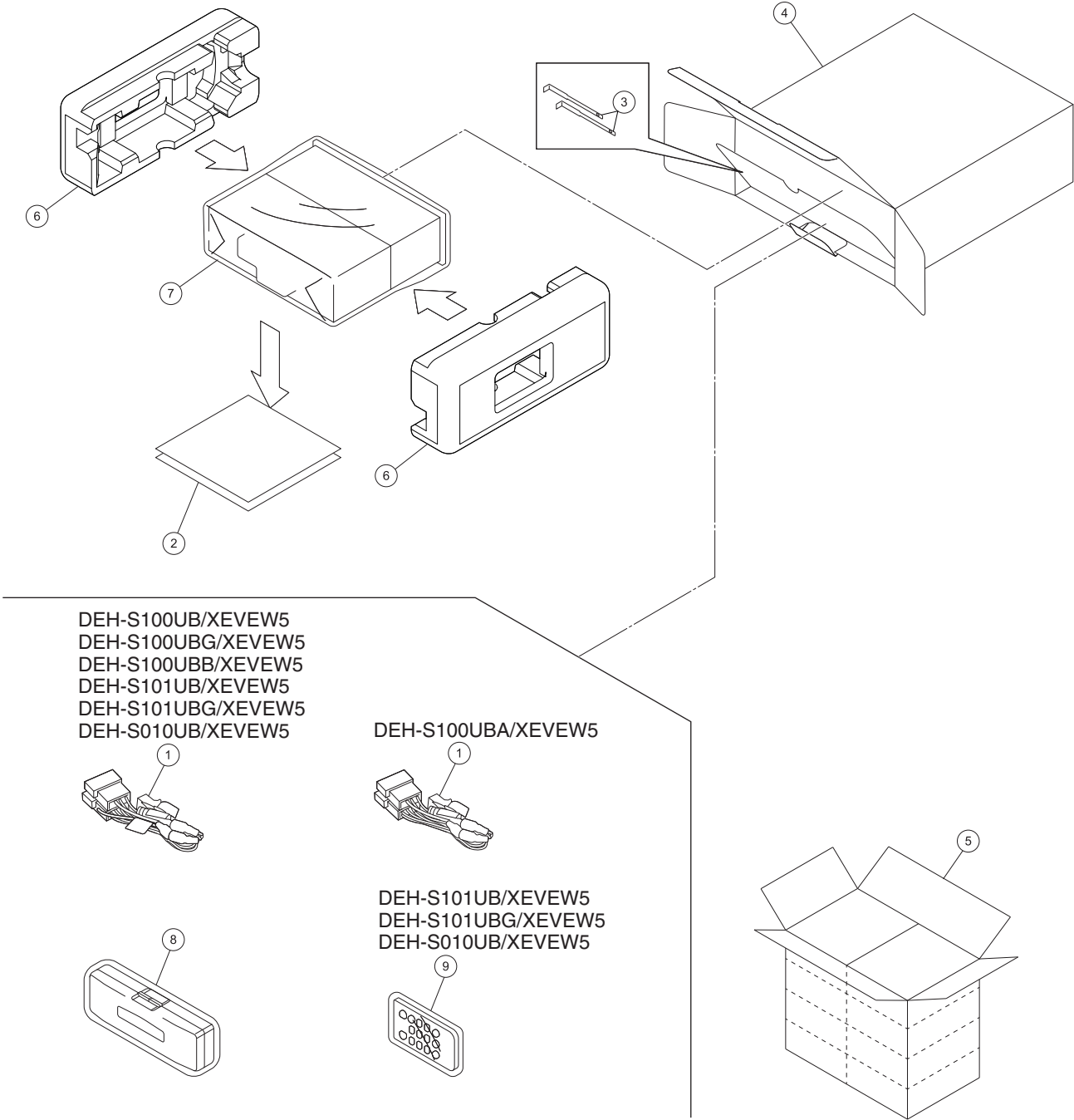


9. EXPLODED VIEWS AND PARTS LIST

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 SECTION



(1) PACKING 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	Cord Assy	See Contrast table (2)	5	Contain Box	See Contrast table (2)
2-1	Owner's Manual	QRD3500	6	Protector	QHP3048
* 2-2	Warranty	CRY1376	7	Polyethylene Bag	QEG3001
3	Handle	QNC3021	8	Case Assy	QXA3129
4	Unit Box	See Contrast table (2)	9	Card Remote Control Unit	See Contrast table (2)

(2) CONTRAST TABLE

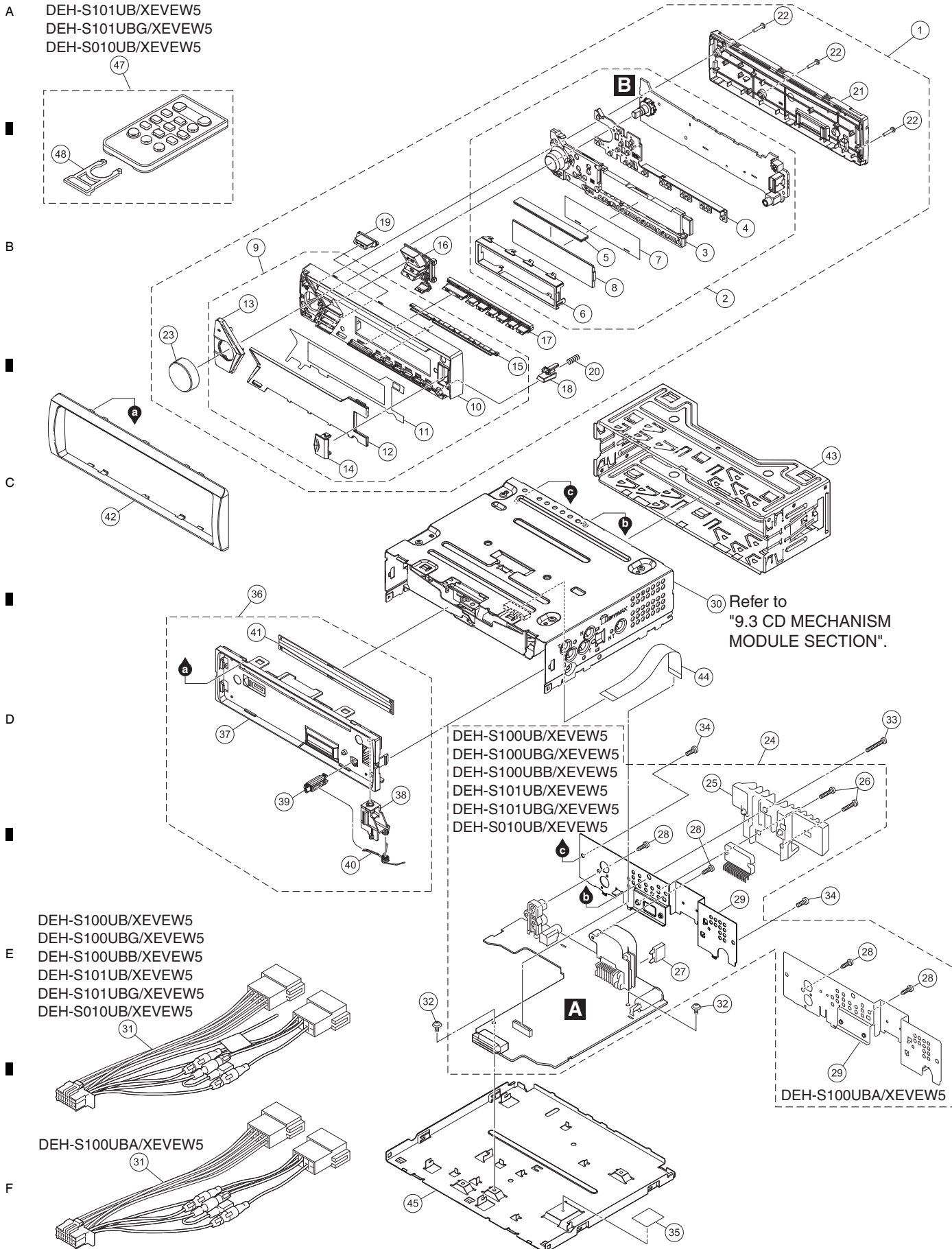
DEH-S100UB/XEVEW5, DEH-S100UBA/XEVEW5, DEH-S100UBG/XEVEW5, DEH-S100UBB/XEVEW5, DEH-S101UB/XEVEW5, DEH-S101UBG/XEVEW5 and DEH-S010UB/XEVEW5 are constructed the same except for the following:

Mark	No.	Symbol and Description	DEH-S100UB /XEVEW5	DEH-S100UBA /XEVEW5	DEH-S100UBG /XEVEW5	DEH-S100UBB /XEVEW5	DEH-S101UB /XEVEW5	DEH-S101UBG /XEVEW5	DEH-S010UB /XEVEW5
	1	Cord Assy	QDP3070	QDP3071	QDP3070	QDP3070	QDP3070	QDP3070	QDP3070
	4	Unit Box	QHG4167	QHG4168	QHG4169	QHG4170	QHG4171	QHG4172	QHG4182
	5	Contain Box	QHL4167	QHL4168	QHL4169	QHL4170	QHL4171	QHL4172	QHL4182
	9	Card Remote Control Unit	Not used	Not used	Not used	Not used	CXE9606	CXE9606	CXE9606

Owner's Manual, Installation Manual

Part No.	Language
QRD3500	English, French, Italian, Spanish(Espanol), German, Dutch, Russian

9.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.	
1	Detach Grille Assy	See Contrast table (2)	26	Screw	BSZ26P120FTC	
2	Keyboard Unit	See Contrast table (2)	 27	Fuse (10 A)	YEK5001	A
3	Lighting Cond	QNV3142	28	Screw	BPZ26P080FTC	
4	Contact Rubber	QNV3144	29	Holder	See Contrast table (2)	
5	Rubber Connector	QNV3129	30	CD Mechanism Module	CXK5835	
6	Holder	QNC3130	31	Cord Assy	See Contrast table (2)	
7	Sheet	QNM3159	32	Screw	ASZ26P050FTC	
8	Segment LCD (V1801)	See Contrast table (2)	33	Screw	BSZ26P120FTC	
9	Grille Unit	See Contrast table (2)	34	Screw	BSZ26P060FTC	
* 10	Grille	QNS4165	35	Sheet	QNM3135	
* 11	DS Tape	QNM3205	36	Panel Unit	QXA4750	B
* 12	Plate	See Contrast table (2)	* 37	Panel	QNS3126	
* 13	Button(EJECT)	QAC3275	* 38	Arm	QNV3025	
* 14	Door	QAT3029	* 39	Button	QNV3026	
* 15	Lighting Cond	QNV3143	40	Spring	QBH3001	
16	Button(SRC)	QAC3278	* 41	Cover	QNM3029	
17	Button(TRACK, 1-6)	QAC3279	42	Panel	QNS3568	
18	Button(DETACH)	QAC3280	43	Holder	QNC3020	
19	Button(EQ)	QAC3283	44	FFC	QDE3029	
20	Spring	CBH2210	45	Case	QNB3033	C
21	Cover	QNS4167	46	•••••		
22	Screw	BPZ20P100FTC	47	Card Remote Control Unit	See Contrast table (2)	
23	Knob Unit	QXA5051	48	Cover	See Contrast table (2)	
24	Tuner Amp Unit	See Contrast table (2)				
25	Heat Sink	QNR3010				

(2) CONTRAST TABLE

DEH-S100UB/XEVEW5, DEH-S100UBA/XEVEW5, DEH-S100UBG/XEVEW5, DEH-S100UBB/XEVEW5, DEH-S101UB/XEVEW5, DEH-S101UBG/XEVEW5 and DEH-S010UB/XEVEW5 are constructed the same except for the following:

Mark	No.	Symbol and Description	DEH-S100UB /XEVEW5	DEH-S100UBA /XEVEW5	DEH-S100UBG /XEVEW5	DEH-S100UBB /XEVEW5	DEH-S101UB /XEVEW5	DEH-S101UBG /XEVEW5	DEH-S010UB /XEVEW5	
*	1	Detach Grille Assy	QXA5069	QXA5070	QXA5071	QXA5072	QXA5073	QXA5074	QXA5083	
	2	Keyboard Unit	QWM4658	QWM4659	QWM4660	QWM4668	QWM4661	QWM4662	QWM4748	
	8	Segment LCD (V1801)	CAW2056	CAW2056	CAW2056	CAW2059	CAW2056	CAW2056	CAW2056	
	9	Grille Unit	QXA5119	QXA5120	QXA5121	QXA5122	QXA5123	QXA5124	QXA5133	
	12	Plate	QNS4222	QNS4223	QNS4224	QNS4225	QNS4226	QNS4227	QNS4230	
	24	Tuner Amp Unit	QWM4709	QWM4710	QWM4711	QWM4712	QWM4713	QWM4714	QWM4744	
	29	Holder	QNC3050	QNC3051	QNC3050	QNC3050	QNC3050	QNC3050	QNC3050	
	31	Cord Assy	QDP3070	QDP3071	QDP3070	QDP3070	QDP3070	QDP3070	QDP3070	
	47	Card Remote Control Unit	Not used	Not used	Not used	Not used	CXE9606	CXE9606	CXE9606	
	48	Cover	Not used	Not used	Not used	Not used	CNU3681	CNU3681	CNU3681	

9.3 CD MECHANISM MODULE

A

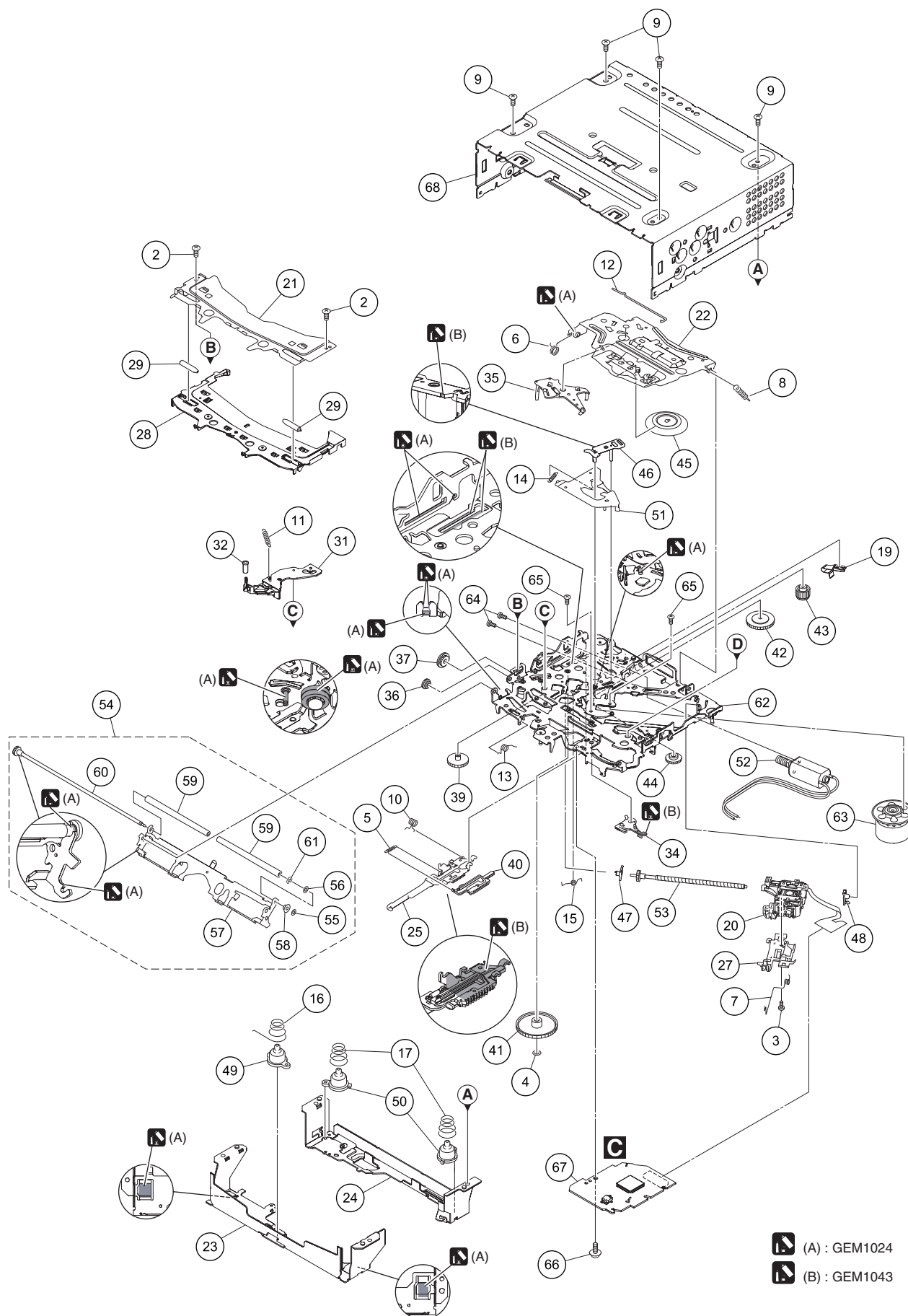
B

C

D

E

F



CD MECHANISM MODULE SECTION PARTS LIST

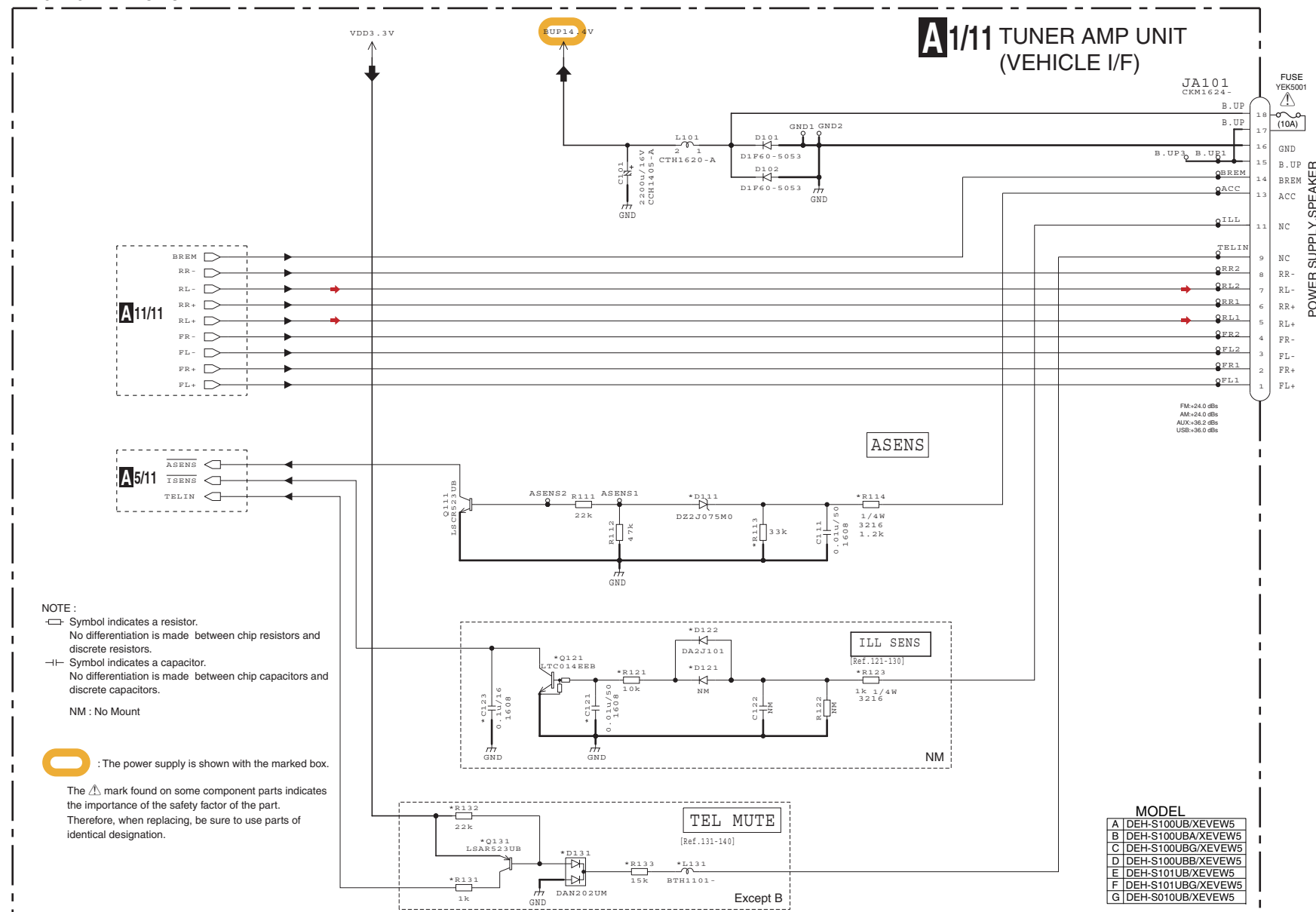
Mark No.	Description	Part No.	Mark No.	Description	Part No.	
1			46	Arm	CNW1192	
2	Screw	BSZ20P040FTC	47	Holder	CNW1193	A
3	Screw(M2 x 4)	CBA1835	48	Holder	CNW1194	
4	Washer	CBF1038	49	Damper	CNW1197	
5	Spring	CBH3010	50	Damper	CNW1198	
6	Spring	CBH2855	51	Arm	CNW1726	
7	Spring	CBH2856	52	Motor Unit(M2)(LOAD/CRG)	CXC4026	
8			53	Screw Unit	CXC8894	
9	Screw	BSZ26P060FTC	54	Arm Assy	CXE8953	
10	Spring	CBH3011	55	Washer	CBF1037	
11	Coil Spring	CBH3149	56	Washer	CBF1038	B
12	Spring	CBH3014	57	Arm	CND6242	
13	Spring	CBH3145	58	Collar	CNW2444	
14	Spring	CBH3148	59	Roller	CNW2500	
15	Spring	CBH3017	60	Gear Unit	CXE8952	
16	Spring	CBH3086	61	Washer	YE15FTC	
17	Spring	CBH3019	62	Chassis Unit	CXE9531	
18			63	Motor Unit(M1)(SPDL)	CXE3767	
19	Leaf Spring	CBL1824	64	Screw	JFZ20P025FTC	
20	Pickup Unit(P10.6)(Service)	CXX3556	65	Screw	JGZ17P022FTC	C
21	Bracket	CND4553	66	Screw	EBA1028	
22	Arm	CND7608	67	CD Core Unit (S11.6STD)	CWX4023	
23	Bracket	CND6127	68	Chassis	CNA3373	
24	Bracket	CND5710				
25	Lever	CND6834				
26						
27	Rack	CNV8342				
28	Guide	CNW3489				
29	Roller	CNW1172				D
30						
31	Arm	CNW2241				
32	Roller	CNW1175				
33						
34	Arm	CNW1177				
35	Arm	CNW1178				
36	Gear	CNW1180				
37	Gear	CNW1181				
38						E
39	Gear	CNW1183				
40	Rack	CNW1184				
41	Gear	CNW1185				
42	Gear	CNW1186				
43	Gear	CNW1187				
44	Gear	CNW2287				
45	Clamper	CNW1190				

10. SCHEMATIC DIAGRAM

10.1 TUNER AMP UNIT(VEHICLE I/F)

10. SCHEMATIC DIAGRAM

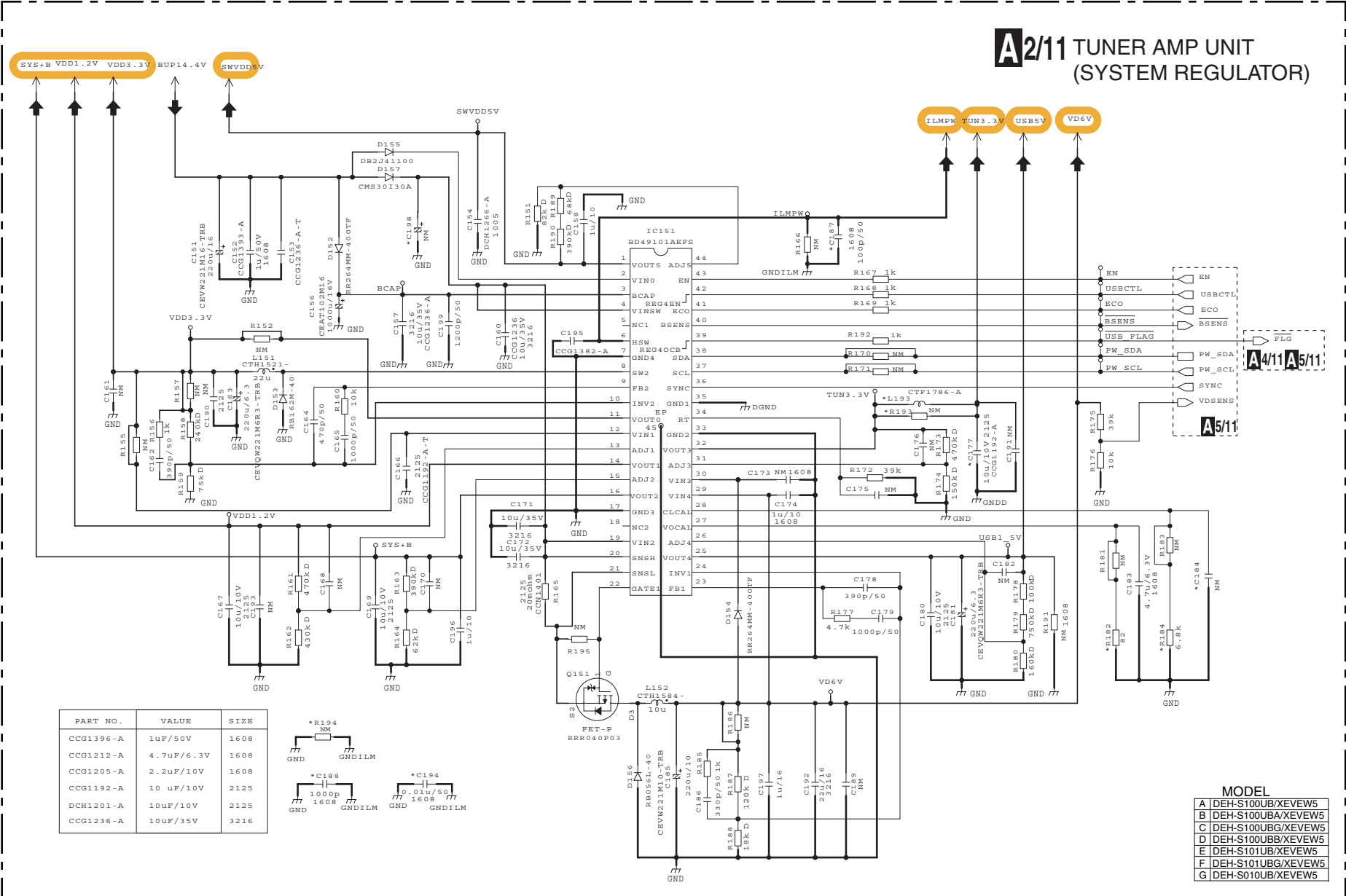
Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".



A1/11

A1/11

A2/11 TUNER AMP UNIT (SYSTEM REGULATOR)



DEH-S100UB/XEVEW5

10.3 TUNER AMP UNIT(BT)

A

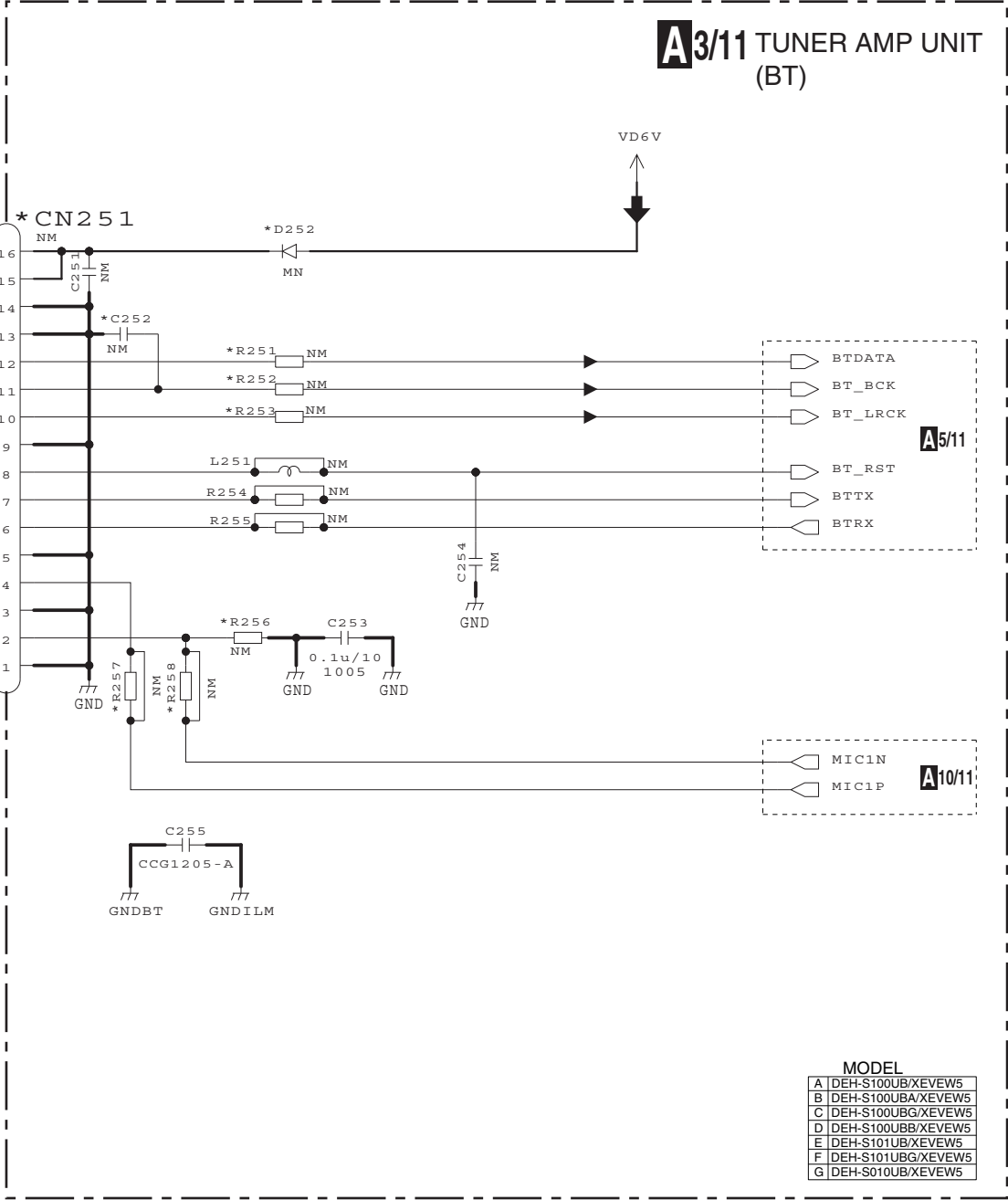
B

C

D

E

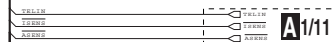
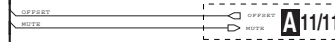
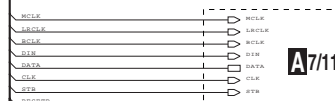
F



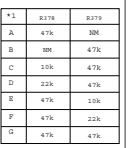
3



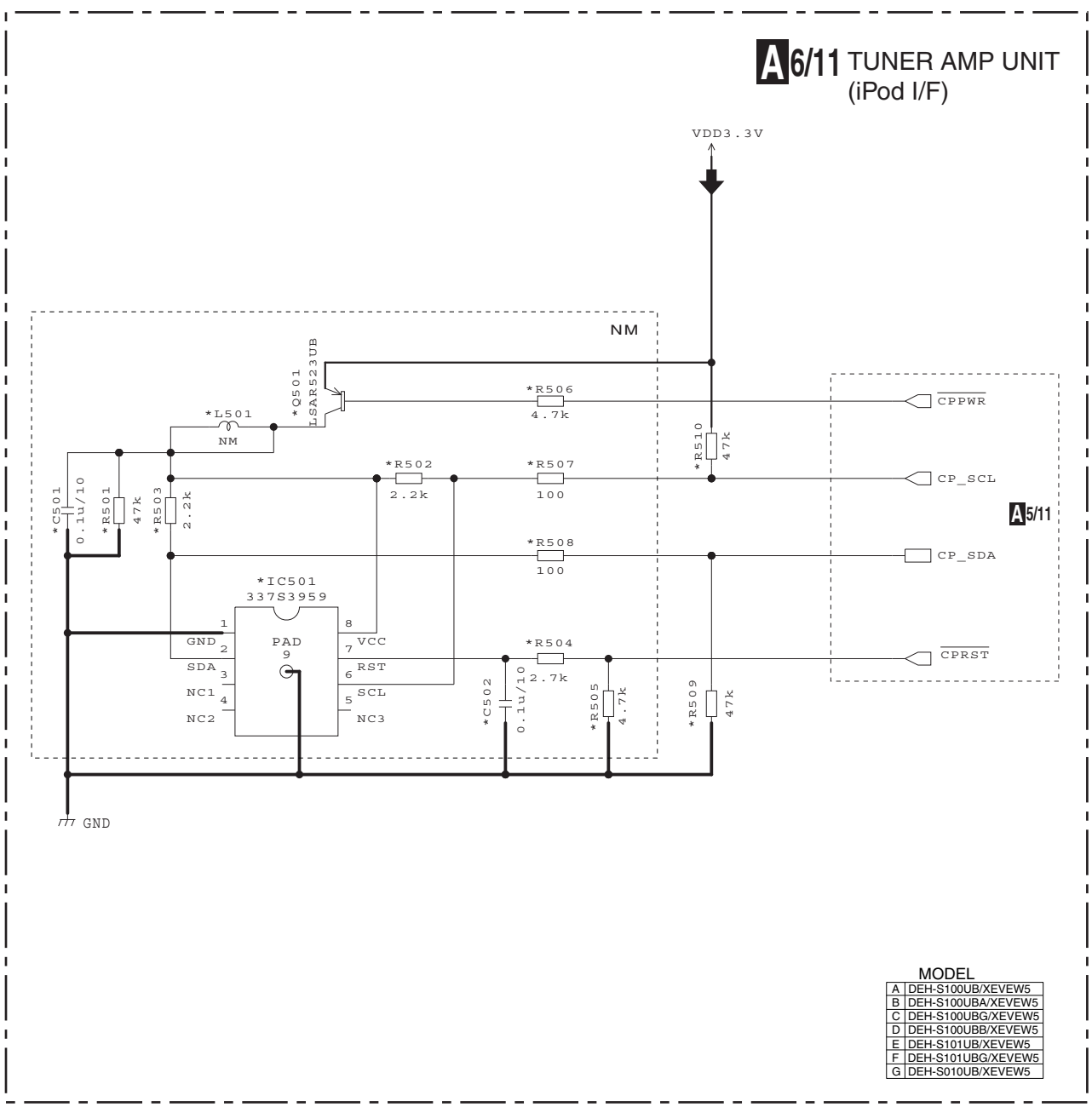
A7/11



MODEL	
A	DEH-S100UB/XEVIEW5
B	DEH-S100UBA/XEVIEW5
C	DEH-S100UBG/XEVIEW5
D	DEH-S100UBB/XEVIEW5
E	DEH-S101UB/XEVIEW5
F	DEH-S101UBG/XEVIEW5
G	DEH-S010UB/XEVIEW5

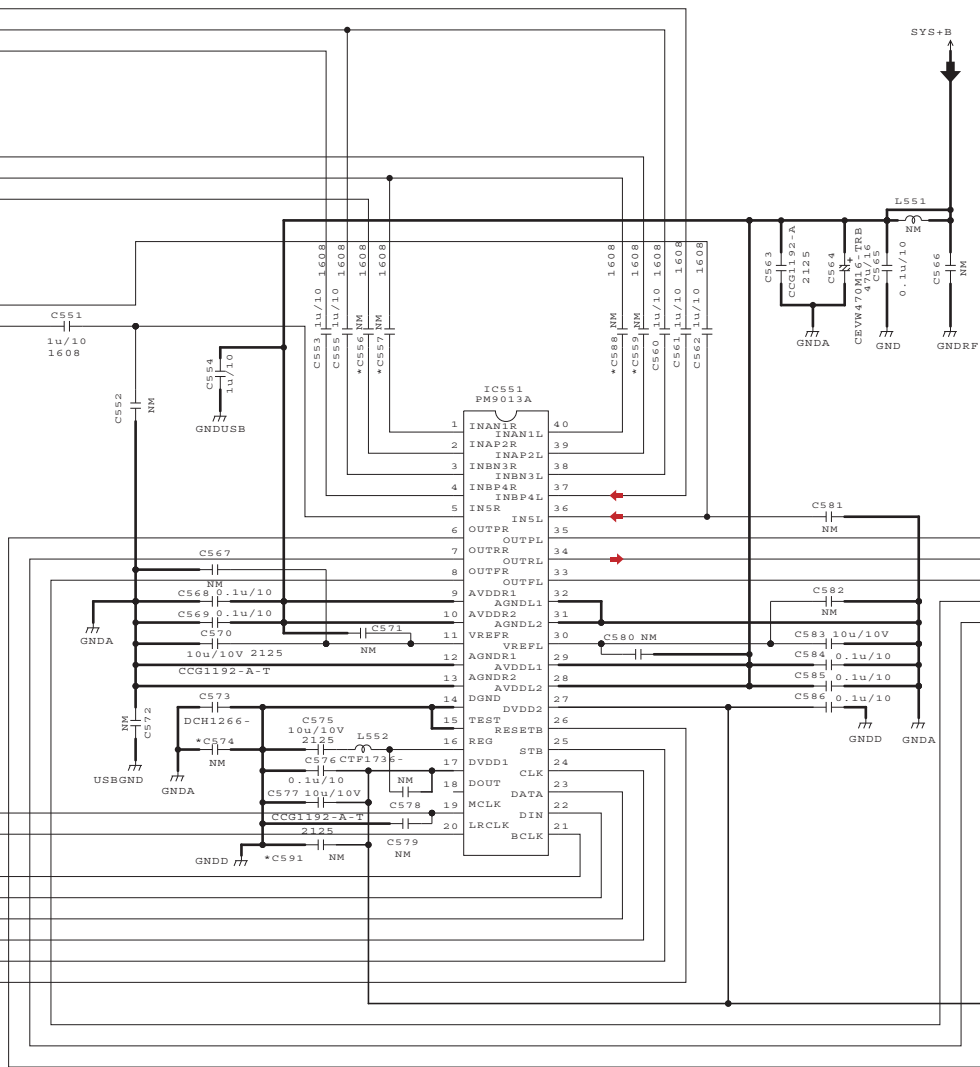
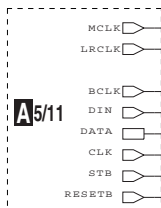


10.6 TUNER AMP UNIT(iPod I/F)

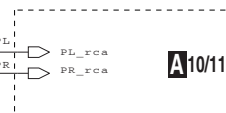
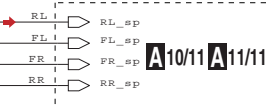


10.7 TUNER AMP UNIT(E-VOL)

A7/11 TUNER AMP UNIT (E-VOL)



FM-2.00 dBs
AM-2.00 dBs
AUX-10.20 dBs
USB-10.00 dBs



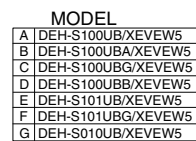
MODEL

A	DEH-S100UB/XEVEW5
B	DEH-S100UBA/XEVEW5
C	DEH-S100UBG/XEVEW5
D	DEH-S100UBB/XEVEW5
E	DEH-S101UB/XEVEW5
F	DEH-S101UBG/XEVEW5
G	DEH-S010UB/XEVEW5

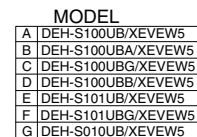
A7/11

A7/11

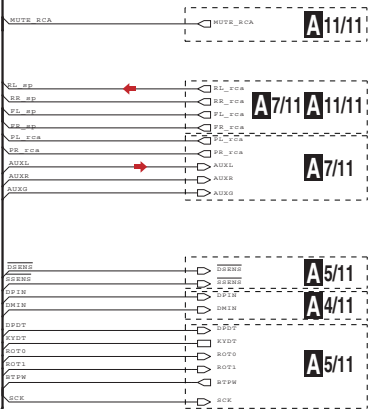
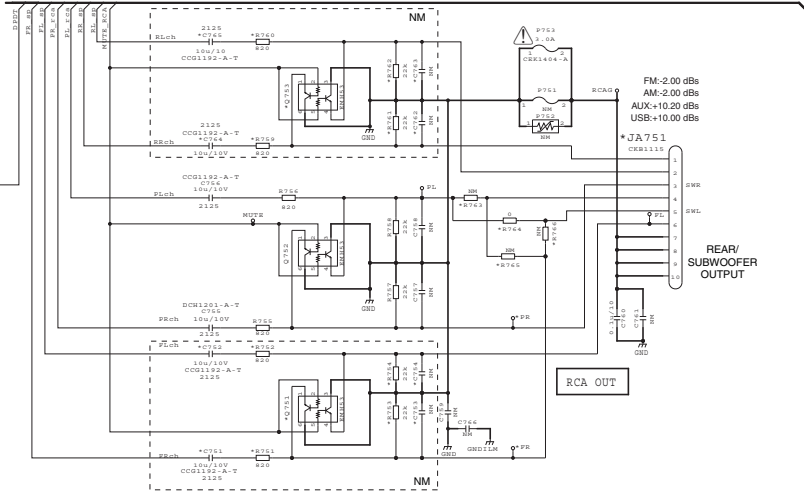
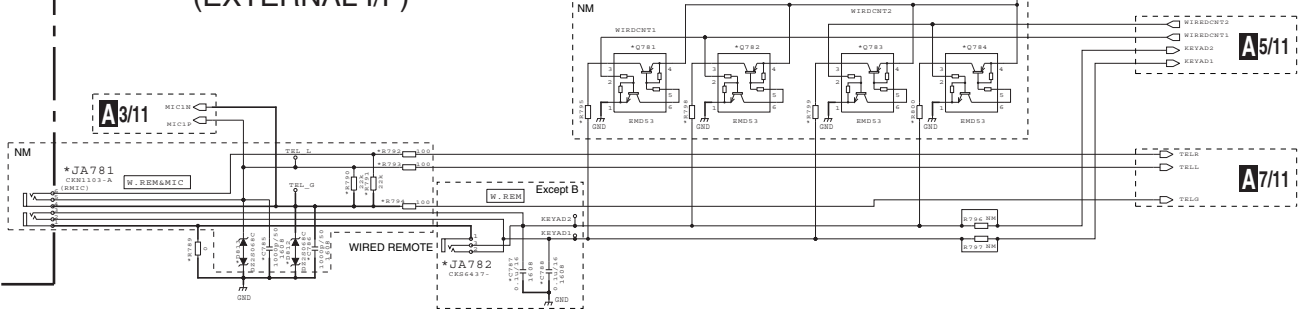
A5/11



4

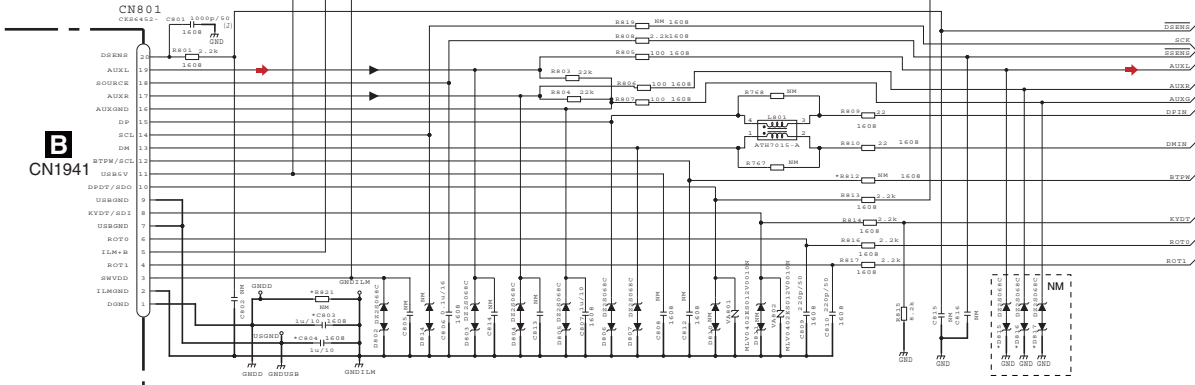


A10/11 TUNER AMP UNIT (EXTERNAL I/F)



MODEL	
A	DEH-S100UB/XEVEW5
B	DEH-S100UBA/XEVEW5
C	DEH-S100UBG/XEVEW5
D	DEH-S100UBB/XEVEW5
E	DEH-S101UB/XEVEW5
F	DEH-S101UBG/XEVEW5
G	DEH-S010UB/XEVEW5

B
CN1941



DEH-S100UB/XEVEW5

A10/11

A10/11

A11/11 TUNER AMP UNIT (POWER AMP)

AMP
*IC851
PAL014A

TAB1
OD
P-GND2
OUT2-
STBY
OUT2+
VCC1
OUT1-
OUT1+
P-GND1
SVR
IN1
IN2
S-GND
IN4
IN3
AC_GND
OUT3+
P-GND3
OUT3-
VCC2
OUT4+
MUTE
OUT4-
P-GND4
HSD
TAB2

A1/11

MODEL

A	DEH-S100UB/XEVEW5
B	DEH-S100UBA/XEVEW5
C	DEH-S100UBG/XEVEW5
D	DEH-S100UBB/XEVEW5
E	DEH-S101UB/XEVEW5
F	DEH-S101UBG/XEVEW5
G	DEH-S010UB/XEVEW5

FM:~24.0 dBs
AM:~24.0 dBs
AUX:~36.2 dBs
USB:~36.0 dBs

B.REM&A.ANT

MUTE

A5/11
OFFSET
MUTE

A7/11
A10/11
FL_sp
RL_sp
RR_sp
FR_sp

A10/11
MUTE_RCA

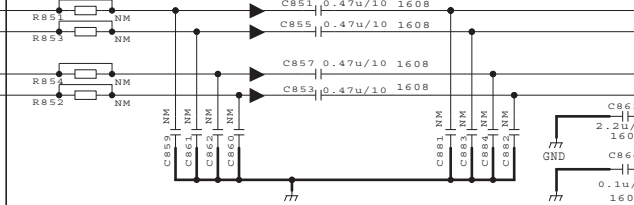
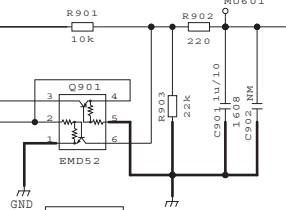
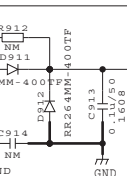
SYS+B

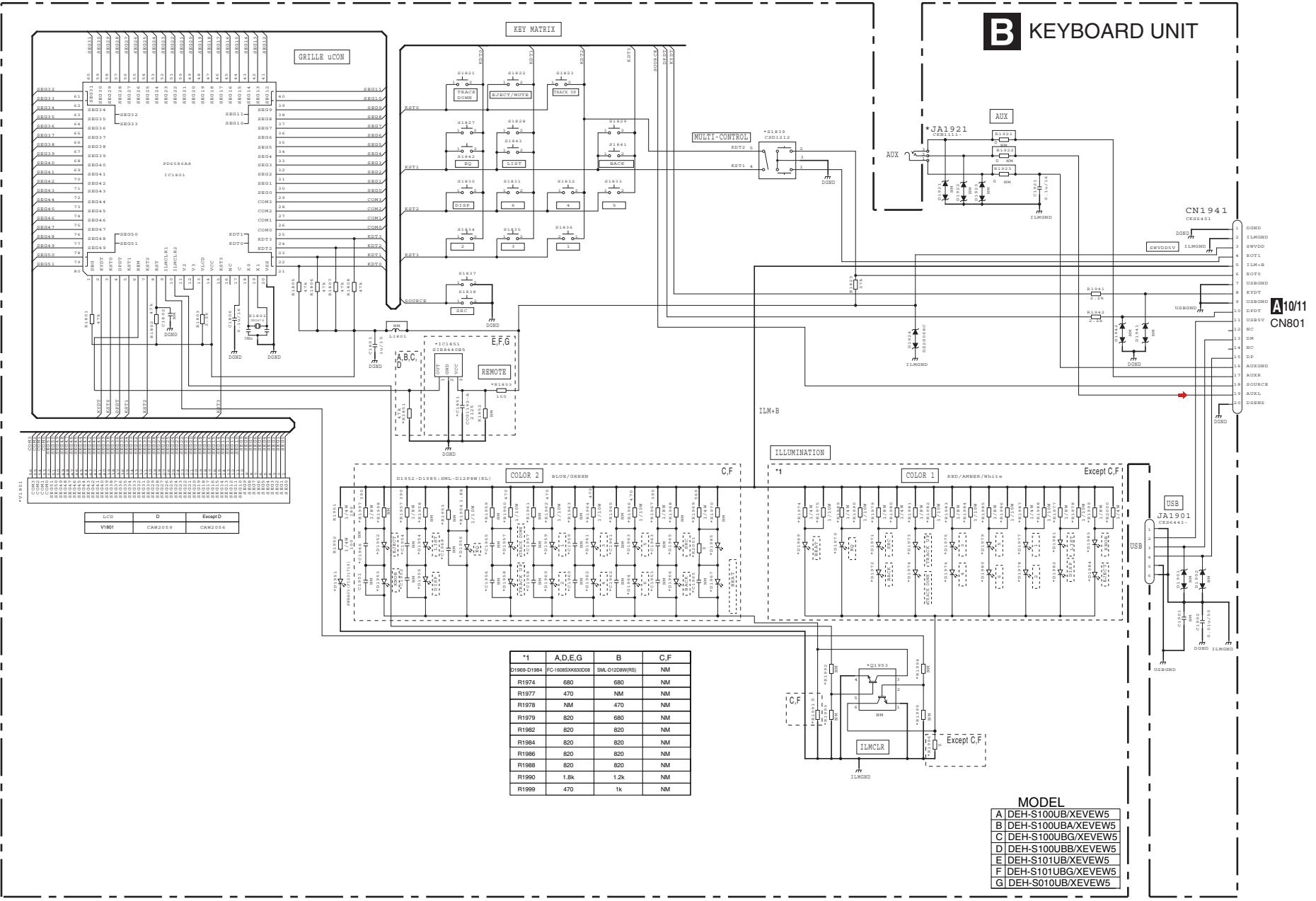
SYS+B 5.78 V

BU14.4V

GNDTP552

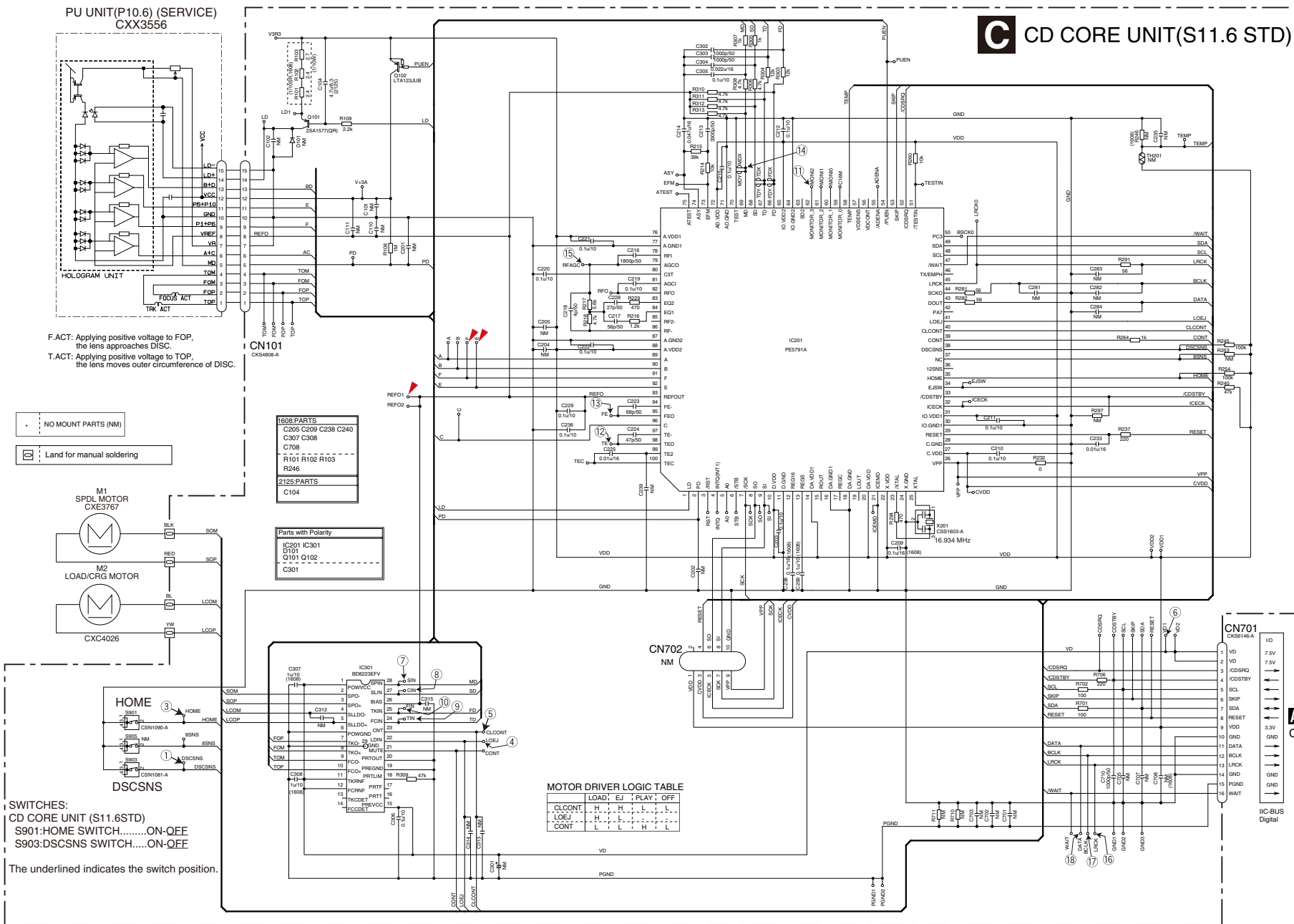
BU14.4V





DEH-S100UB/XEVEW5

C CD CORE UNIT(S11.6 STD)



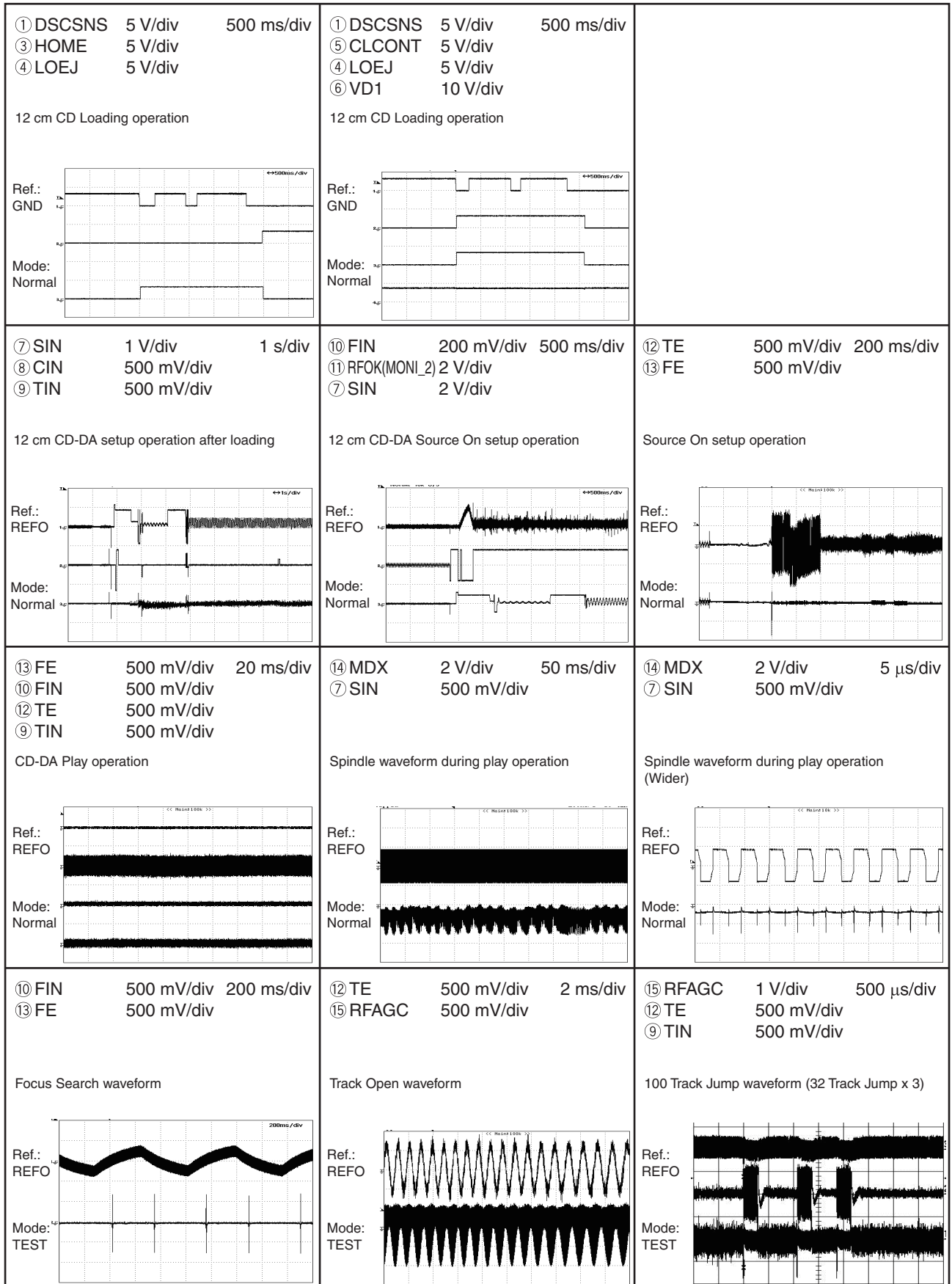
A9/11
CN701

IC-BUS
Digital

10.14 WAVEFORMS

CD CORE UNIT(S11.6)

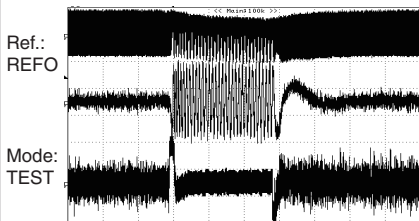
Note : 1. The encircled numbers denote measuring points in the circuit diagram.
2. Reference voltage REFO1(1.65 V)



A

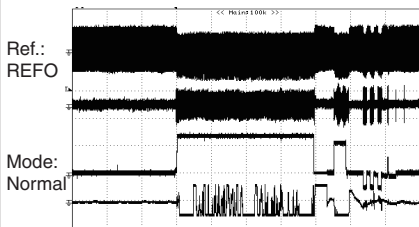
⑮ RFAGC 1 V/div 2 ms/div
 ⑫ TE 500 mV/div
 ⑨ TIN 500 mV/div

32 Tracks Jump waveform
 (Zoom of 100 Track Jump waveform)



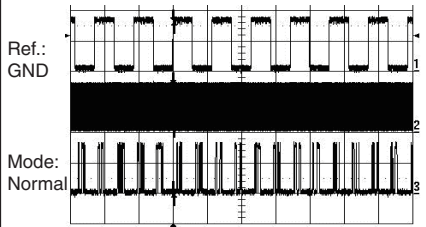
⑮ RFAGC 1 V/div 200 ms/div
 ⑫ TE 1 V/div
 ⑧ CIN 500 mV/div
 ⑦ SIN 2 V/div

Search operation(Outter to Inner)



⑯ LRCK 2 V/div 10 us/div
 ⑰ BCLK 2 V/div
 ⑱ DOUT(DATA) 2 V/div

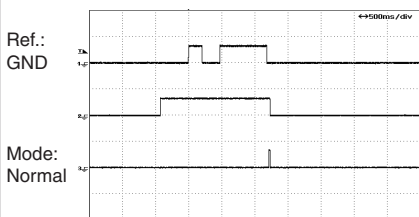
Digital Out waveform



B

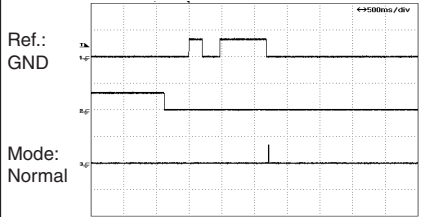
① DSCSNS 5 V/div 500 ms/div
 ⑤ CLCONT 5 V/div
 ④ LOEJ 5 V/div

12 cm CD Eject operation



① DSCSNS 5 V/div 500 ms/div
 ③ HOME 5 V/div
 ④ LOEJ 5 V/div

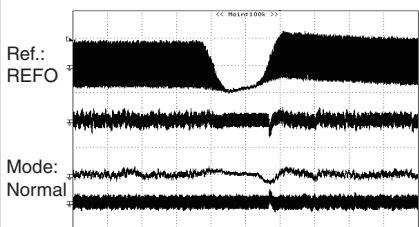
12 cm CD Eject operation



C

⑮ RFAGC 1 V/div 500 μs/div
 ⑨ TIN 1 V/div
 ⑫ TE 1 V/div
 ⑩ FIN 1 V/div

Black Dot (800 μm) during play



D

E

F

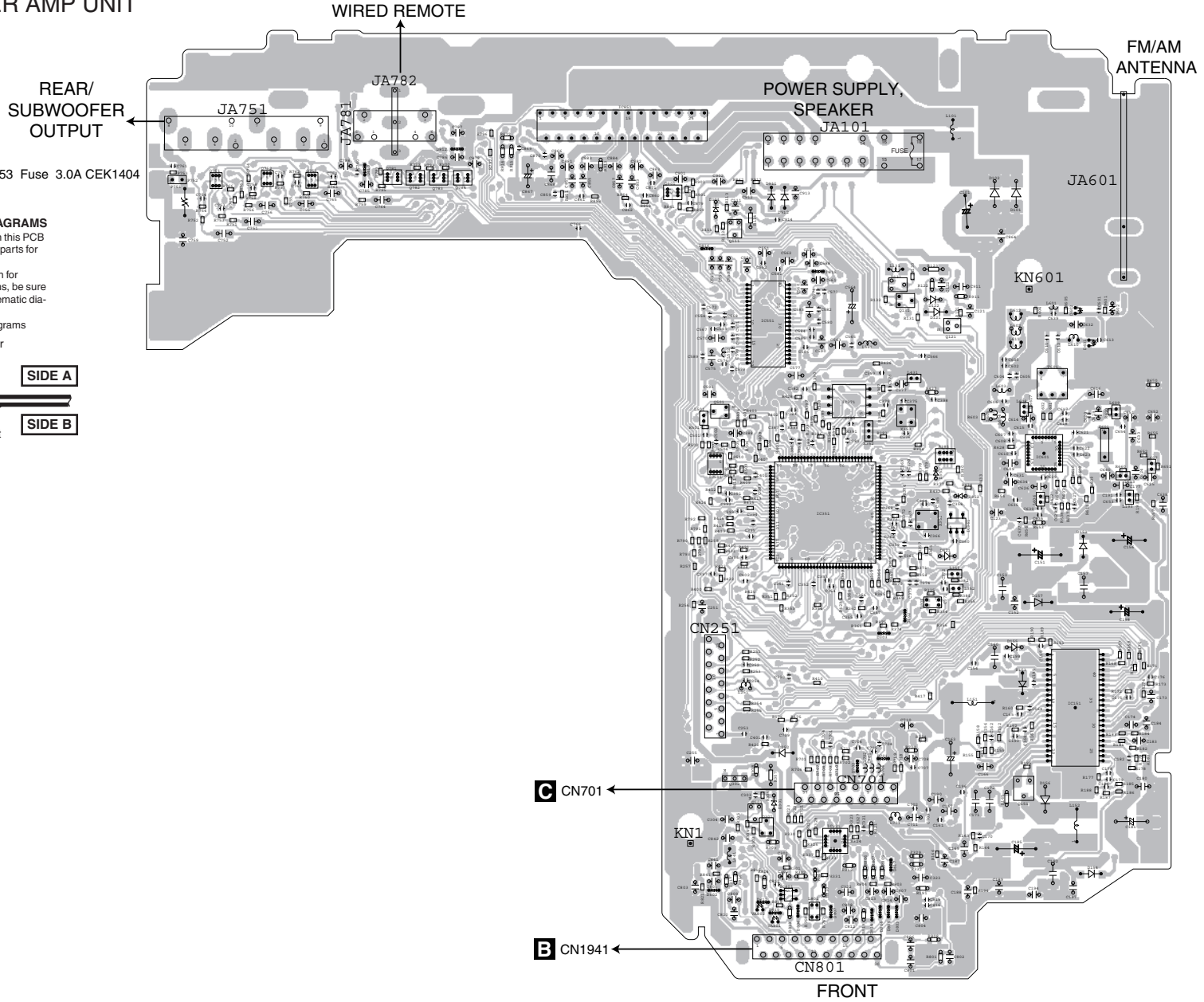
11. PCB CONNECTION DIAGRAM

11.1 TUNER AMP UNIT

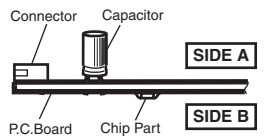
SIDE A

11. PCB CONNECTION DIAGRAM

A TUNER AMP UNIT



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



C CN701

B CN1941

A

DEH-S100UB/REVIEWS

49

A

B

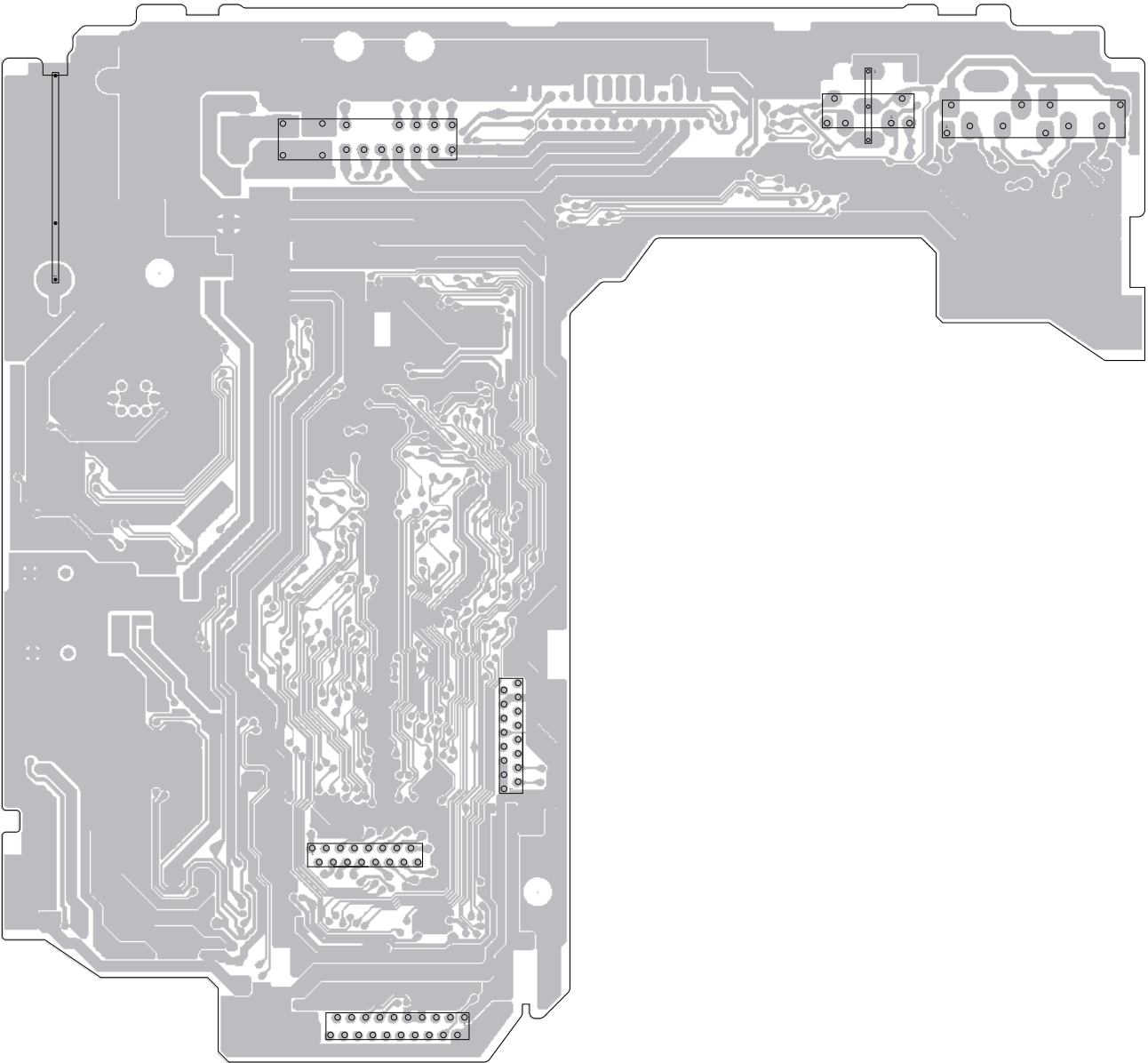
C

D

E

F

SIDE B



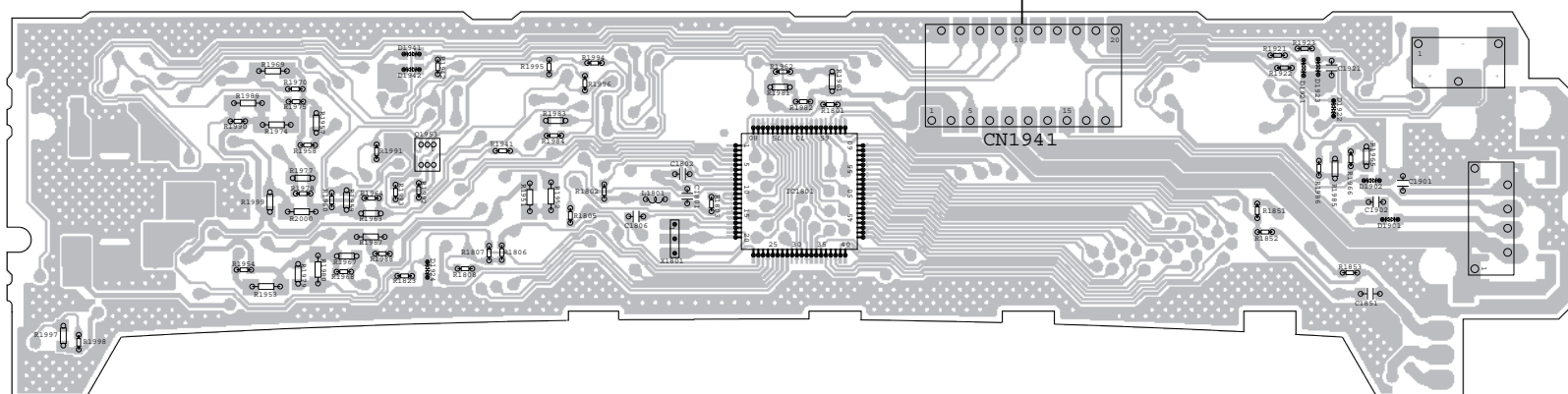
A TUNER AMP UNIT

A

A

DEH-S100UB/XEVEW5

B



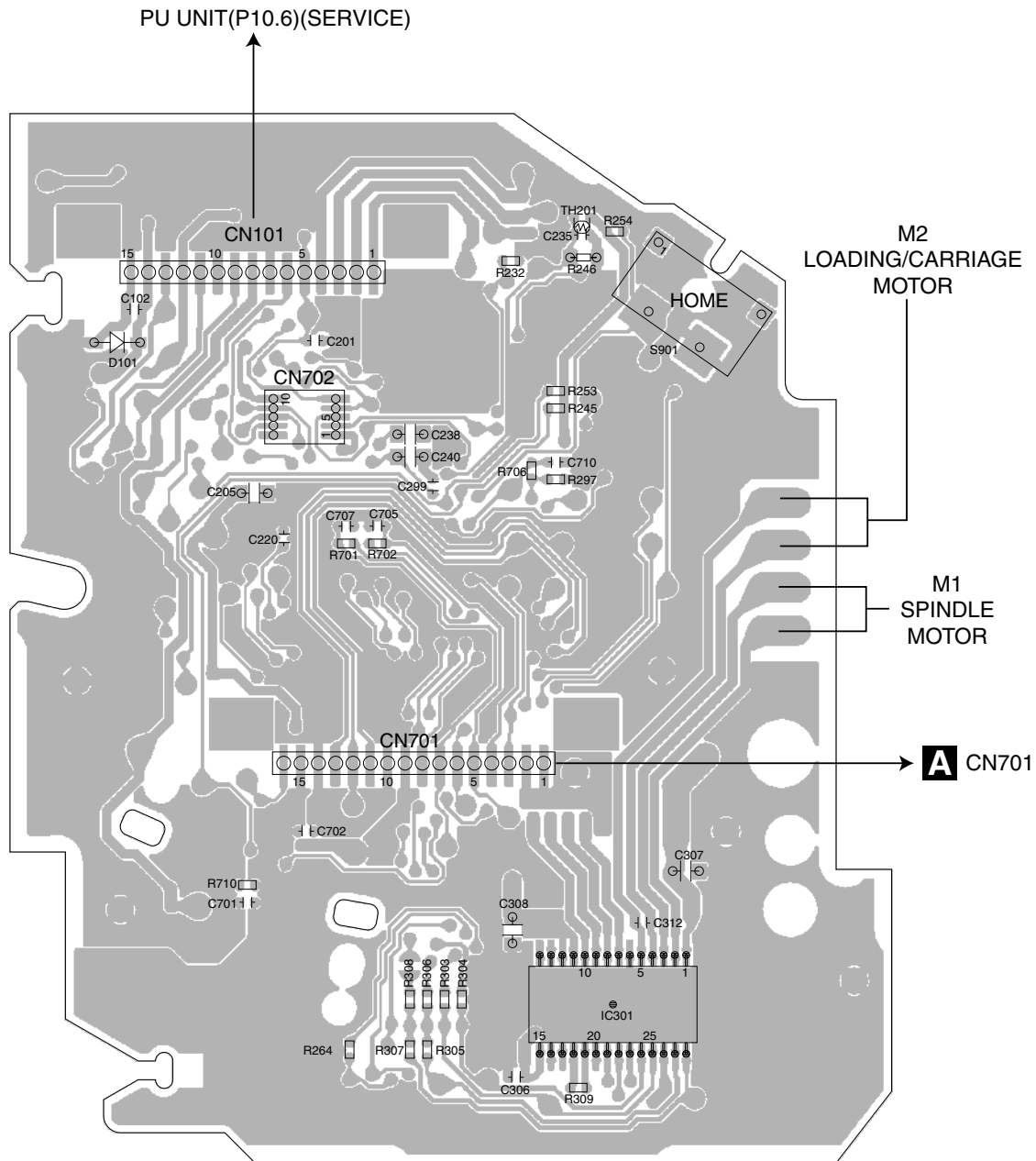
B KEYBOARD UNIT

11.3 CD CORE UNIT

C

CD CORE UNIT

SIDE A



C

C

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.....

- Parts marked by " * " are generally unavailable because they are not in our Master Spare Parts List.
- 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.
- The expression of the unit in this manual is shown by u instead of μ . Please do not make a mistake.

Circuit Symbol and No.

Part No.

A:DEH-S100UB/XEVEW5

B:DEH-S100UBA/XEVEW5

C:DEH-S100UBG/XEVEW5

D:DEH-S100UBB/XEVEW5

E:DEH-S101UB/XEVEW5

F:DEH-S101UBG/XEVEW5

G:DEH-S010UB/XEVEW5

Unit Number: QWM4709(A)

Unit Number: QWM4710(B)

Unit Number: QWM4711(C)

Unit Number: QWM4712(D)

Unit Number: QWM4713(E)

Unit Number: QWM4714(F)

Unit Number: QWM4744(G)

Unit Name : Tuner Amp Unit

Unit Number: QWM4658(A)

Unit Number: QWM4659(B)

Unit Number: QWM4660(C)

Unit Number: QWM4668(D)

Unit Number: QWM4661(E)

Unit Number: QWM4662(F)

Unit Number: QWM4748(G)

Unit Name : Keyboard Unit

Unit Number: CWX4023

Unit Name : CD Core Unit

Circuit Symbol and No.

Part No.

Unit Number: QWM4713(E)

Unit Number: QWM4714(F)

Unit Number: QWM4744(G)

Unit Name : Tuner Amp Unit

MISCELLANEOUS

IC 151	Power supply IC	BD49101AEFS
IC 351	Blank Flash IC	R5S726A0D216FP
IC 361	IC	S-80827CNMC-B8M
IC 371	IC	QVQ1038
IC 551	E-VOL System LSI	PM9013A

IC 601	Tuner IC	TEF6686HN-V102
IC 801	Logic IC	TC7SET08FUS3
IC 851	Power Amp IC	PAL014A
Q 111	Bipolar Transistor	LSCR523UB
Q 131	Bipolar Transistor(Except B)	LSAR523UB

Q 151	Power MOS FET	RRR040P03
Q 301	Transistor	2SAR502UB
Q 302	Transistor	2SCR514PGZE
Q 303	Transistor	LTC143EUB
Q 752	Transistor	EMH53

Q 901	Transistor	EMD52
D 101	Diode	D1F60-5053
D 102	Diode	D1F60-5053
D 111	Diode	DZ2J075M0
D 131	Rectifier Diode(Except B)	DAN202UM

D 152	Diode	RR264MM-400TF
D 153	Schottky Diode	RB162M-40
D 154	Diode	RR264MM-400TF
D 155	Schottky Diode	DB2J41100
D 156	Diode	RB056L-40

D 157	Schottky Diode	CMS30I30A
D 301	Diode	DZ2J100M0
D 351	Schottky Diode(Except B)	RB751SM-40
D 352	Schottky Diode(Except B)	RB751SM-40
D 802	Diode	DZ2S068C

D 803	Diode	DZ2S068C
D 804	Diode	DZ2S068C
D 805	Diode	DZ2S068C
D 806	Diode	DZ2S068C
D 807	Diode	DZ2S068C

D 911	Diode	RR264MM-400TF
D 912	Diode	RR264MM-400TF

5			6			7			8		
<u>Circuit Symbol and No.</u>			<u>Part No.</u>			<u>Circuit Symbol and No.</u>			<u>Part No.</u>		
L 101	Choke Coil		CTH1620			R 180			RS1/16SS1603D		
L 131	Chip Coil(Except B)		BTH1101			R 182			RS1/16SS820J		
L 151	SMD SPL Inductor		CTH1521								
						R 184			RS1/16SS682J		A
L 152	SMD SPL Inductor		CTH1584			R 185			RS1/16SS102J		
L 193	Inductor		CTF1786			R 187			RS1/16SS1203D		
L 552	Inductor		CTF1736			R 188			RS1/16SS1802D		
L 602	Inductor		CTF1389			R 189			RS1/16SS6802D		
L 605	Inductor		LCYC150K1608								
						R 190			RS1/16SS3903D		
L 606	Inductor		CTF1786			R 192			RS1/16SS102J		
L 610	Inductor		LCMAR27J1608			R 301			RS1/16SS473J		
L 613	Inductor		CTF1786			R 303			RS1/16SS103J		
L 701	Inductor		CTF1389			R 304			RS1/16SS272J		
L 702	Chip Beads		VTL1133								
						R 305			RS1/16SS473J		B
L 703	Chip Beads		VTL1133			R 308			RS1/10SR102J		
L 704	Chip Beads		VTL1133			R 329			RS1/10SR0R0J		
L 801	Common Mode Choke Coil		ATH7015			R 330			RS1/16SS0R0J		
T 601	Variable Coil		CTC1215			R 331			RS1/16SS0R0J		
X 351	Crystal Resonator 12.000000 MHz	CSS1876									
						R 332			RS1/10SR0R0J		
X 353	Resonator 16.93 MHz	CSS1794				R 334			RS1/16SS0R0J		
X 601	Crystal Resonator	CSS1868				R 335			RS1/16SS0R0J		
P 601	Surge Absorber	IMSA-6803-01Y900				R 355			RS1/16SS103J		
⚠ P753	Fuse 3.0 A	CEK1404				R 357			RS1/16SS473J		
VA801	SMD Varistor	MLV0402ES012V0010N									
						R 359			RS1/16SS0R0J		
VA802	SMD Varistor	MLV0402ES012V0010N				R 360			RS1/16SS0R0J		C
CN701	FFC/FPC Connector	CKS6763				R 362			RS1/16SS473J		
CN801	Connector	CKS6452				R 363			RS1/16SS221J		
JA101	Plug	CKM1624									
JA601	Antenna Jack	CKX1104				R 364			RS1/16SS104J		
						R 365			RS1/16SS221J		
JA751	Jack	CKB1115				R 366			RS1/16SS221J		
JA782	Jack(Except B)	CKS6437				R 368			RS1/16SS102J		
						R 369			RS1/16SS473J		
RESISTORS						R 370			RS1/16SS473J		
R 111		RS1/16SS223J				R 371			RS1/16SS473J		
R 112		RS1/16SS473J				R 373			RS1/16SS152J		
R 113		RS1/16SS333J				R 374			RS1/16SS153J		D
R 114		RS1/4SA122J									
R 131	(Except B)	RS1/16SS102J									
						R 375			RS1/16SS153J		
R 132	(Except B)	RS1/16SS223J				R 376			RS1/16SS473J		
R 133	(Except B)	RS1/16SS153J				R 377			RS1/16SS103J		
R 151		RS1/16SS8202D				R 378	(A,E,F,G)		RS1/16SS473J		
R 156		RS1/16SS102J				R 378	(C)		RS1/16SS103J		
R 158		RS1/16SS2403D									
						R 378	(D)		RS1/16SS223J		
R 159		RS1/16SS7502D				R 379	(B,C,D,G)		RS1/16SS473J		
R 160		RS1/16SS103J				R 379	(E)		RS1/16SS103J		
R 161		RS1/16SS4703D				R 379	(F)		RS1/16SS223J		
R 162		RS1/16SS4303D				R 380			RS1/16SS103J		
R 163		RS1/16SS3903D									E
						R 383			RS1/16SS222J		
R 164		RS1/16SS6202D				R 384			RS1/16SS473J		
R 165	20 mohm	CCN1401				R 385			RAB4CQ473J		
R 167		RS1/16SS102J				R 386			RS1/16SS473J		
R 168		RS1/16SS102J				R 387			RS1/16SS473J		
R 169		RS1/16SS102J									
						R 388			RS1/16SS473J		
R 172		RS1/16SS393J				R 389			RS1/16SS473J		
R 173		RS1/16SS4703D				R 390			RS1/16SS473J		
R 174		RS1/16SS1503D				R 391			RS1/16SS221J		
R 175		RS1/16SS393J				R 392			RS1/16SS221J		
R 176		RS1/16SS103J									
						R 393			RS1/16SS221J		F
R 177		RS1/16SS472J				R 394			RS1/16SS221J		
R 178		RS1/16SS1003D				R 395			RS1/16SS221J		
R 179		RS1/16SS7503D				R 396			RS1/16SS221J		

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

	R 397		RS1/16SS473J		R 758		RS1/16SS223J
					R 764		RS1/16SS0R0J
A	R 398		RS1/16SS473J				
	R 399		RS1/16SS101J		R 789	(Except B)	RS1/16SS0R0J
	R 400		RS1/16SS473J		R 801		RS1/10SR222J
	R 401		RS1/16SS102J		R 803		RS1/16SS223J
	R 402		RS1/16SS473J		R 804		RS1/16SS223J
					R 805		RS1/10SR101J
■	R 403		RS1/16SS473J				
	R 404		RS1/16SS473J		R 806		RS1/10SR101J
	R 409		RS1/16SS472J		R 807		RS1/10SR101J
	R 411		RS1/16SS472J		R 808		RS1/10SR222J
	R 412		RS1/16SS104J		R 809		RS1/10SR220J
					R 810		RS1/10SR220J
	R 413		RS1/16SS101J				
B	R 414		RS1/16SS101J		R 813		RS1/10SR222J
	R 415		RS1/16SS101J		R 814		RS1/10SR222J
	R 416		RS1/16SS102J		R 815		RS1/16SS822J
	R 418		RS1/16SS102J		R 816		RS1/10SR222J
					R 817		RS1/10SR222J
	R 419		RS1/16SS102J				
■	R 421		RS1/16SS473J		R 841		RS1/16SS472J
	R 423		RS1/16SS222J		R 859		RS1/16SS103J
	R 424		RS1/16SS222J		R 872		RS1/10SR0R0J
	R 425		RS1/16SS103J		R 901		RS1/16SS103J
					R 902		RS1/16SS221J
	R 428		RS1/16SS0R0J				
	R 433	(Except B)	RS1/16SS102J		R 903		RS1/16SS223J
C	R 434	(Except B)	RS1/16SS102J		R 914		RS1/10SR0R0J
	R 509		RS1/16SS473J				
	R 510		RS1/16SS473J				
					CAPACITORS		
	R 603		RS1/16SS391J		C 101	2 200 uF/16 V	CCH1405
	R 604		RS1/16SS105J		C 111		CKSRYB103K50
	R 605		RS1/16SS105J		C 151		CEVW221M16
■	R 606		RS1/16SS101J		C 152	1 uF	CCG1393
	R 607		RS1/16SS101J		C 153	10 uF	CCG1236
	R 608		RS1/16SS103J		C 154	1 uF/10 V	DCH1266
	R 610		RS1/16SS103J		C 156		CEAT102M16
	R 617		RS1/16SS0R0J		C 157	10 uF	CCG1236
D	R 620		RS1/16SS0R0J		C 158	1 uF	DCH1246
	R 637		RS1/16SS472J		C 160	10 uF	CCG1236
	R 638		RS1/16SS472J		C 162		CCSSCH391J50
	R 651		RS1/16SS0R0J		C 163		CEVQW221M6R3
	R 652		RS1/16SS0R0J		C 164		CCSSCH471J50
■	R 701		RS1/16SS473J		C 165		CCSSCH102J50
	R 702		RS1/16SS104J		C 166	10 uF	CCG1192
	R 704		RS1/16SS104J		C 167	10 uF	CCG1192
	R 706		RS1/16SS221J		C 169	10 uF	CCG1192
	R 707		RS1/16SS221J		C 171	10 uF	CCG1236
	R 708		RS1/16SS101J		C 172	10 uF	CCG1236
E	R 709		RS1/16SS221J		C 174		CKSRYB105K10
	R 710		RS1/16SS101J		C 177	10 uF	CCG1192
	R 711		RS1/16SS102J		C 178		CCSSCH391J50
	R 715		RS1/16SS331J		C 179		CKSSYB102K50
	R 716		RS1/16SS331J		C 180	10 uF	CCG1192
■	R 717		RS1/16SS331J		C 181		CEVQW221M6R3
	R 718		RS1/16SS221J		C 183	4.7 uF	CCG1212
	R 719		RS1/16SS104J		C 185		CEVW221M10
	R 721		RS1/16SS472J		C 186		CCSSCH331J50
	R 722		RS1/16SS472J		C 187		CCSRCH101J50
	R 723		RS1/16SS472J		C 188		CKSRYB102K50
F							
	R 755		RS1/16SS821J		C 192	22 uF	CCG1254
	R 756		RS1/16SS821J		C 194		CKSRYB103K50
	R 757		RS1/16SS223J		C 195	1 uF	CCG1382
					C 196	1 uF	DCH1246

5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
C 197		CKSRYX105K16		C 585		CKSSYB104K10	
C 199		CKSSYB122K50		C 586		CKSSYB104K10	
C 253		CKSSYB104K10		C 587		CKSSYB102K50	A
C 255	2.2 uF	CCG1205		C 589	1 uF/10 V	DCH1266	
C 302		CCSRCH101J50		C 590		CKSRYB105K10	
C 303		CKSSYB104K16		C 607		CKSSYB102K50	
				C 610		CKSSYB152K50	
C 304		CKSRYB104K16					
C 351		CKSSYB104K10		C 611		CCSSCH331J50	
C 352		CKSSYB104K10		C 612		CCSSCH220J50	
C 353		CKSSYB104K10		C 613		CCSSCH100D50	
C 354		CKSSYB104K10		C 615		CKSSYB104K10	
				C 617		CKSSYB102K50	
C 357		CKSSYB104K10					
C 359	1 uF/10 V	DCH1266		C 618		CKSSYB224K6R3	B
C 361		CKSSYB104K10		C 620		CKSSYB104K10	
C 362		CKSSYB104K10		C 621		CCSSCH390J50	
C 363		CKSSYB104K10		C 624	2.2 uF	CCG1205	
				C 626	10 uF	CCG1192	
C 365		CCSSCH120J50					
C 366		CCSSCH120J50		C 630	1 uF/10 V	DCH1266	
C 368		CKSSYB102K50		C 631		CCSSCH391J50	
C 369		CKSSYB104K10		C 632		CKSRYB104K16	
C 375		CCSSCH120J50		C 633		CKSRYB104K16	
				C 635		CCSSCH101J50	
C 376		CCSSCH120J50					
C 377		CKSRYB105K10		C 637		CKSSYB104K10	
C 379		CCSSCJ3R0C50		C 639		CCSSCH471J50	C
C 383		CKSSYB104K10		C 701		CKSSYB103K16	
C 384		CCSSCH220J50		C 702		CKSSYB103K16	
				C 709		CKSSYB104K10	
C 385		CKSSYB104K10					
C 386		CKSSYB104K10		C 755	10 uF	DCH1201	
C 387		CKSSYB104K10		C 756	10 uF	CCG1192	
C 388		CCSRCH330J50		C 760		CKSSYB104K10	
C 389		CKSSYB104K10		C 787	(Except B)	CKSRYB104K16	
				C 788	(Except B)	CKSRYB104K16	
C 390		CCSSCH100D50					
C 391		CCSSCH220J50		C 801		CCSRCH102J50	
C 392		CCSSCH220J50		C 803		CKSRYB105K10	
C 393		CCSSCH220J50		C 804		CKSRYB105K10	D
C 394		CKSSYB104K10		C 806		CKSRYB104K16	
				C 807		CKSRYB105K10	
C 395		CKSSYB103K16					
C 398	1 uF	DCH1246		C 809		CCSRCH221J50	
C 399		CKSSYB104K10		C 810		CCSRCH221J50	
C 400		CCSSCH100D50		C 811		CKSSYB104K10	
C 551		CKSRYB105K10		C 851		CKSRYB474K10	
				C 853		CKSRYB474K10	
C 553		CKSRYB105K10					
C 554	1 uF	DCH1246		C 855		CKSRYB474K10	
C 555		CKSRYB105K10		C 857		CKSRYB474K10	
C 560		CKSRYB105K10		C 863	2.2 uF	CCG1205	
C 561		CKSRYB105K10		C 864		CKSRYX104K50	E
				C 866		CKSRYX105K16	
C 562		CKSRYB105K10					
C 563	10 uF	CCG1192		C 868	10 uF/16 V	DCH1263	
C 564		CEVW470M16		C 901		CKSRYB105K10	
C 565		CKSSYB104K10		C 913		CKSRYX104K50	
C 568		CKSSYB104K10					
C 569		CKSSYB104K10					
C 570	10 uF	CCG1192					
C 573	1 uF/10 V	DCH1266					
C 575	10 uF	CCG1192					
C 576		CKSSYB104K10					
C 577	10 uF	CCG1192					
C 583	10 uF	CCG1192					
C 584		CKSSYB104K10					

B

Unit Number: QWM4658(A)

Unit Number: QWM4659(B)

Unit Number: QWM4668(D)

Unit Number: QWM4661(E)

Unit Number: QWM4748(G)

Unit Name : Keyboard Unit

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

A	IC 1801	IC	PD6586A8
	IC 1851	IC(E,G)	SIR8440B5
	D 1924	Diode	DZ2S068C
	D 1951	LED	SWBA05(FI231719)
	D 1969	LED(Except B)	FC-1608SXXK630D08

	D 1969	LED(B)	SML-D12D8W(RS)
	D 1970	LED(Except B)	FC-1608SXXK630D08
	D 1970	LED(B)	SML-D12D8W(RS)
	D 1971	LED(Except B)	FC-1608SXXK630D08
	D 1971	LED(B)	SML-D12D8W(RS)

B	D 1972	LED(Except B)	FC-1608SXXK630D08
	D 1972	LED(B)	SML-D12D8W(RS)
	D 1973	LED(Except B)	FC-1608SXXK630D08
	D 1973	LED(B)	SML-D12D8W(RS)
	D 1974	LED(Except B)	FC-1608SXXK630D08

	D 1974	LED(B)	SML-D12D8W(RS)
	D 1975	LED(Except B)	FC-1608SXXK630D08
	D 1975	LED(B)	SML-D12D8W(RS)
	D 1976	LED(Except B)	FC-1608SXXK630D08
	D 1976	LED(B)	SML-D12D8W(RS)

C	D 1977	LED(Except B)	FC-1608SXXK630D08
	D 1977	LED(B)	SML-D12D8W(RS)
	D 1978	LED(Except B)	FC-1608SXXK630D08
	D 1978	LED(B)	SML-D12D8W(RS)
	D 1979	LED(Except B)	FC-1608SXXK630D08

	D 1979	LED(B)	SML-D12D8W(RS)
	D 1980	LED(Except B)	FC-1608SXXK630D08
	D 1980	LED(B)	SML-D12D8W(RS)
	D 1981	LED(Except B)	FC-1608SXXK630D08
	D 1981	LED(B)	SML-D12D8W(RS)

D	D 1982	LED(Except B)	FC-1608SXXK630D08
	D 1982	LED(B)	SML-D12D8W(RS)
	D 1983	LED(Except B)	FC-1608SXXK630D08
	D 1983	LED(B)	SML-D12D8W(RS)
	D 1984	LED(Except B)	FC-1608SXXK630D08

	D 1984	LED(B)	SML-D12D8W(RS)
	X 1801	Ceramic Resonator 5.00 MHz	CSS1547
	S 1839	Rotary Encoder(MULTI-CONTROL)	CSD1212
	CN1941	Connector	CKS6451
	JA 1901	Connector	CKS6443

	JA 1921	Jack	CKN1111
	V 1801	LCD(Except D)	CAW2056
	V 1801	LCD(D)	CAW2059

RESISTORS

R 1801	RS1/10SR473J
R 1802	RS1/10SR473J
R 1803	RS1/10SR222J
R 1805	RS1/10SR473J
R 1806	RS1/10SR473J

R 1807	RS1/10SR473J
R 1808	RS1/10SR473J
R 1823	RS1/10SR273J
R 1851 (A,B,D)	RS1/10SR473J
R 1853 (E,G)	RS1/10SR101J

F	R 1941	RS1/10SR222J
	R 1942	RS1/10SR222J
	R 1951	RS1/4SA181J
	R 1952	RS1/4SA101J

R 1974

RS1/4SA681J

R 1977	(Except B)
R 1978	(B)
R 1979	(Except B)
R 1979	(B)
R 1982	

RS1/8SQ471J
RS1/10SR471J
RS1/8SQ821J
RS1/8SQ681J
RS1/10SR821J

R 1984	
R 1986	
R 1988	
R 1990	(Except B)
R 1990	(B)

RS1/10SR821J
RS1/10SR821J
RS1/10SR821J
RS1/10SR182J
RS1/10SR122J

R 1996	
R 1999	(Except B)
R 1999	(B)

RS1/10SR0R0J
RS1/8SQ471J
RS1/8SQ102J

CAPACITORS

C 1801	CKSRYB105K10
C 1806	CKSRYB104K16
C 1851	10 uF(E,G)
C 1902	CCG1192
C 1921	CKSRYB103K50
	CKSRYB104K16

B**Unit Number: QWM4660(C)****Unit Number: QWM4662(F)****Unit Name : Keyboard Unit****MISCELLANEOUS**

IC 1801	PD6586A8
IC 1851	IC(F)
D 1924	Diode
D 1951	LED
D 1952	LED

SIR8440B5
DZ2S068C
SWBA05(FI231719)
SML-D12P8W(KL)

D 1953	LED
D 1954	LED
D 1955	LED
D 1956	LED
D 1957	LED

SML-D12P8W(KL)
SML-D12P8W(KL)
SML-D12P8W(KL)
SML-D12P8W(KL)
SML-D12P8W(KL)

D 1958	LED
D 1959	LED
D 1960	LED
D 1961	LED
D 1962	LED

SML-D12P8W(KL)
SML-D12P8W(KL)
SML-D12P8W(KL)
SML-D12P8W(KL)
SML-D12P8W(KL)

D 1963	LED
D 1964	LED
D 1965	LED
D 1966	LED
D 1967	LED

SML-D12P8W(KL)
SML-D12P8W(KL)
SML-D12P8W(KL)
SML-D12P8W(KL)
SML-D12P8W(KL)

D 1985	LED
X 1801	Ceramic Resonator 5.00 MHz
S 1839	Rotary Encoder(MULTI-CONTROL)
CN1941	Connector
JA 1901	Connector

SML-D12P8W(KL)
CSS1547
CSD1212
CKS6451
CKS6443

JA 1921	Jack
V 1801	LCD

CKN1111
CAW2056

RESISTORS

R 1801	RS1/10SR473J
R 1802	RS1/10SR473J
R 1803	RS1/10SR222J

<u>Circuit Symbol and No.</u>	<u>Part No.</u>
R 1805	RS1/10SR473J
R 1806	RS1/10SR473J
R 1807	RS1/10SR473J
R 1808	RS1/10SR473J
R 1823	RS1/10SR273J
R 1851 (C)	RS1/10SR473J
R 1853 (F)	RS1/10SR101J
R 1941	RS1/10SR222J
R 1942	RS1/10SR222J
R 1951	RS1/4SA181J
R 1952	RS1/4SA101J
R 1954	RS1/10SR182J
R 1957	RS1/8SQ391J
R 1960	RS1/10SR471J
R 1962	RS1/10SR471J
R 1964	RS1/10SR471J
R 1966	RS1/10SR471J
R 1967	RS1/8SQ391J
R 1969	RS1/4SA561J
R 1991	RS1/10SR0R0J
R 1997	RS1/8SQ391J

CAPACITORS

C 1801	CKSRYB105K10
C 1806	CKSRYB104K16
C 1851 10 uF(F)	CCG1192
C 1902	CKSRYB103K50
C 1921	CKSRYB104K16



Unit Number: CWX4023

Unit Name : CD Core Unit(S116.STD)

MISCELLANEOUS

IC 201	IC	PE5791A
IC 301	Driver IC	BD8223EFV
Q 101	Transistor	2SA1577
Q 102	Chip Digital Transistor	LTA123JUB
X 201	Ceramic Resonator 16.934 MHz	CSS1603
S 901	Lever Switch(HOME)	CSN1090
S 903	Spring Switch(DSCSNS)	CSN1081
CN101	Connector	CKS4808
CN701	Connector	CKS6146

RESISTORS

R 101	RS1/10SR2R4J
R 102	RS1/10SR2R4J
R 103	RS1/10SR2R7J
R 108	RS1/16SS105J
R 109	RS1/16SS222J
R 214	RS1/16SS103J
R 215	RS1/16SS393J
R 216	RS1/16SS122J
R 217	RS1/16SS562J
R 218	RS1/16SS472J
R 229	RS1/16SS471J
R 232	RS1/16SS0R0J
R 237	RS1/16SS221J
R 240	RS1/16SS473J
R 245	RS1/16SS104J
R 254	RS1/16SS104J

<u>Circuit Symbol and No.</u>	<u>Part No.</u>
R 260	RS1/16SS103J
R 264	RS1/16SS102J
R 281	RS1/16SS560J
R 282	RS1/16SS560J
R 291	RS1/16SS560J
R 294	RS1/16SS471J
R 303	RS1/16SS123J
R 304	RS1/16SS123J
R 305	RS1/16SS102J
R 306	RS1/16SS472J
R 307	RS1/16SS102J
R 308	RS1/16SS472J
R 309	RS1/16SS473J
R 310	RS1/16SS472J
R 311	RS1/16SS472J
R 312	RS1/16SS472J
R 313	RS1/16SS472J
R 701	RS1/16SS101J
R 702	RS1/16SS101J
R 706	RS1/16SS221J

CAPACITORS

C 104	CKSQYB475K6R3
C 203	CKSSYB104K10
C 209	CKSRYB104K16
C 210	CKSSYB104K10
C 211	CKSSYB104K10
C 212	CKSSYB104K10
C 213	CKSSYB332K50
C 214	CKSSYB473K16
C 215	CKSSYB104K10
C 216	CKSSYB182K50
C 217	CCSSCH560J50
C 218	CCSSCH4R0C50
C 219	CKSSYB104K10
C 220	CKSSYB104K10
C 221	CKSSYB104K10
C 222	CKSSYB104K10
C 223	CCSSCH680J50
C 224	CCSSCH470J50
C 225	CKSSYB103K16
C 228	CCSSCH270J50
C 229	CKSSYB104K10
C 233	CKSSYB103K16
C 236	CKSSYB104K10
C 238	CKSRYB104K16
C 299	CKSSYB104K10
C 302	CKSSYB102K50
C 303	CKSSYB102K50
C 304	CKSSYB223K16
C 305	CKSSYB104K10
C 306	CKSSYB104K10
C 307	CKSRYB105K10
C 308	CKSRYB105K10
C 710	CKSSYB102K50