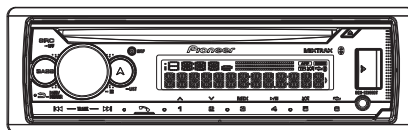


Service Manual



DEH-S5100BT/XNUC

ORDER NO.
CRT6285

CD RDS RECEIVER

DEH-S5100BT /XNUC
DEH-S5120BT /XNUC
DEH-S510BT /XNEW5
DEH-X500BT /XNCS
DEH-S5150BT /XNGS

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.

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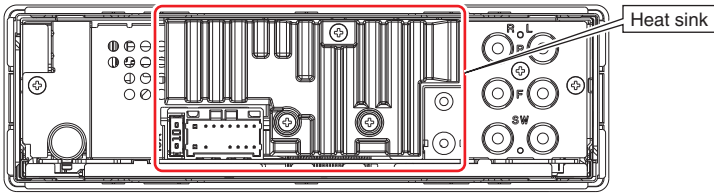
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1. SERVICE PRECAUTIONS

1.1 SAFETY PRECAUTIONS

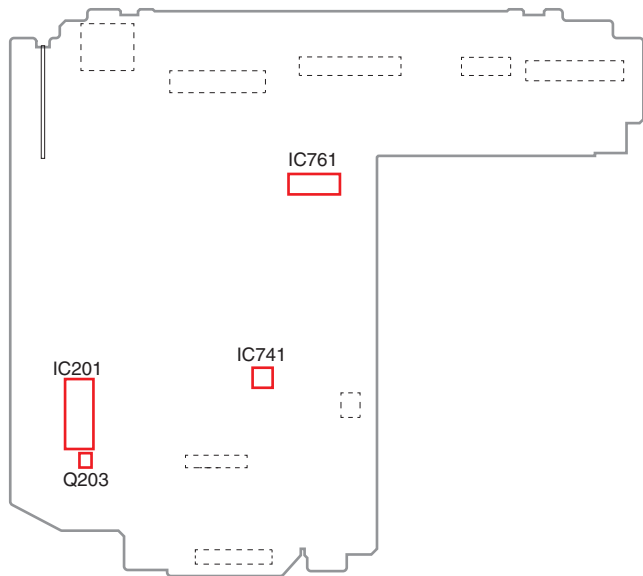
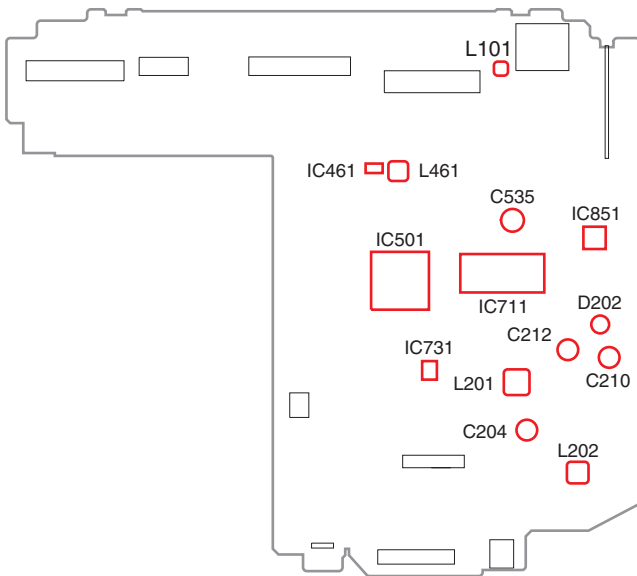


- You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
- Please keep the distance of more than 13 cm from focus lens for safety when you check pickup and make adjustment, and do not look straight at Laser Beam for more than 10 seconds.
-  part and a heat sink becomes hot areas. Be careful not to burn yourself.



SIDE A TUNER AMP UNIT

SIDE B TUNER AMP UNIT



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 OPERATION CHECK / DIAGNOSIS

- Resetting the microprocessor
 1. Remove the front panel.
 2. Press the RESET button with a pointed instrument longer than 8 mm.



RESET button

1.4 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.

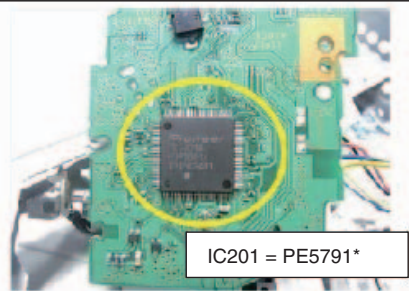
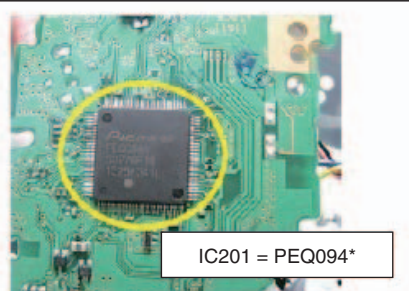
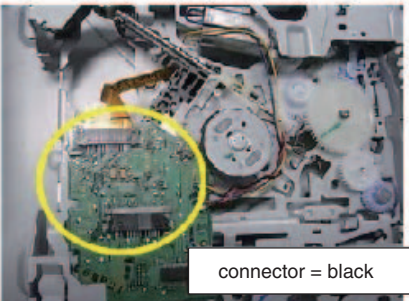
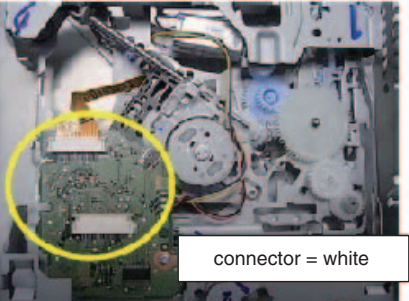
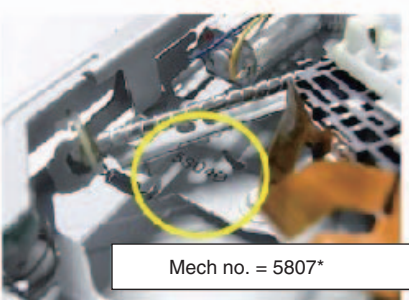
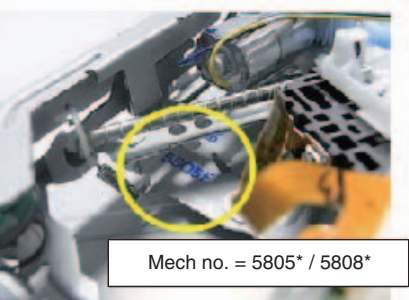
- The part listed below is difficult to replace as a discrete component part.
When the part listed in the table is defective, replace whole Assy.

Function	Ref No.	Part No.	Reason
System Microcomputer	IC501	STA1080	BGA
BT Module	U1001	CWX4751	Bottom terminal
Tuner IC	IC851	TEF6686AHN	with Bottom pad

- There are 2 kinds of CD Mechanism Module as follows for each models on this Service Manual.
These modules are interchangeable in case of replacing whole module but configuration parts such as Pickup Unit, CD Core Unit and other component parts might not be interchangeable each other.
When replacing these configuration parts, please refer to following "How to distinguish the type of CD Mechanism Module" and "12. ELECTRICAL PARTS LIST" for each module and adopt correct ones.
In case either of configuration part is unavailable, replace whole CD Mechanism Module.

Symbol / Description	Part No.
CD Mechanism Module(S11.6)	CXK5807
CD Mechanism Module(S11.6)	CXK5808

<How to distinguish the type of CD Mechanism Module>

CXK5807	CXK5808
 IC201 = PE5791*	 IC201 = PEQ094*
 connector = black	 connector = white
 Mech no. = 5807*	 Mech no. = 5805* / 5808*

1.5 NOTES ON ADJUSTMENT

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

1.6 OTHERS

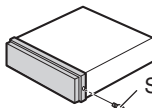
Notes on soldering

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.

To secure the front panel

The front panel can be secured with the supplied screw.



Screw
BPZ20P060FTC (XNUC)
XXX7020 (Except XNUC)

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



- The *Bluetooth*® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by PIONEER CORPORATION is under license. Other trademarks and trade names are those of their respective owners.

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

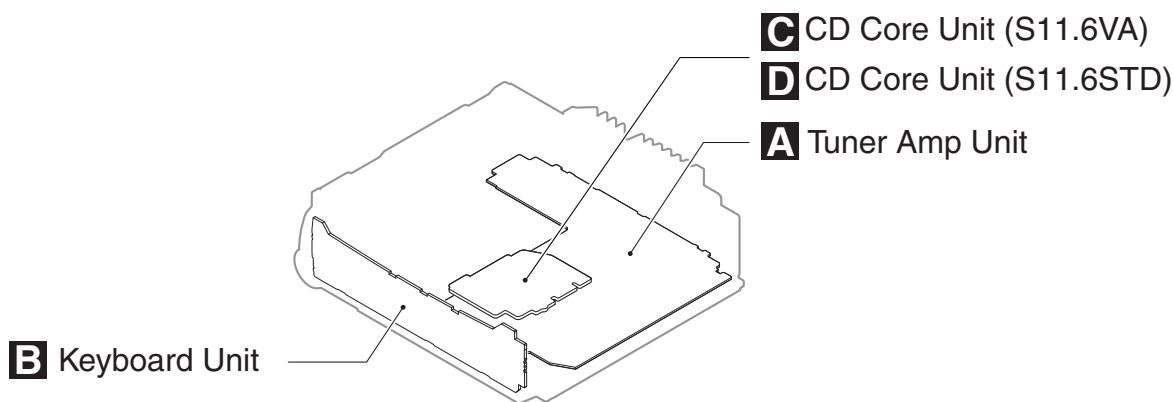
To keep the product quality after servicing, please confirm following check points.

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



A: DEH-S5100BT/XNUC
B: DEH-S5120BT/XNUC
C: DEH-S510BT/XNEW5
D: DEH-X500BT/XNCS
E: DEH-S5150BT/XNGS

Unit Name : Tuner Amp Unit
Unit Number : QWM4914(A)
Unit Number : QWM4915(B)
Unit Number : QWM4913(C)
Unit Number : QWM4917(D)
Unit Number : QWM4916(E)

Unit Name : Keyboard Unit
Unit Number : QWM4984(A,B,D,E)
Unit Number : QWM4985(C)

Unit Name : CD Core Unit(S11.6VA)
Unit Number : CWX4269

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

Notes:

For Core Unit, please refer to "1.4 NOTES ON REPLACING PARTS" for part distinguish.

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

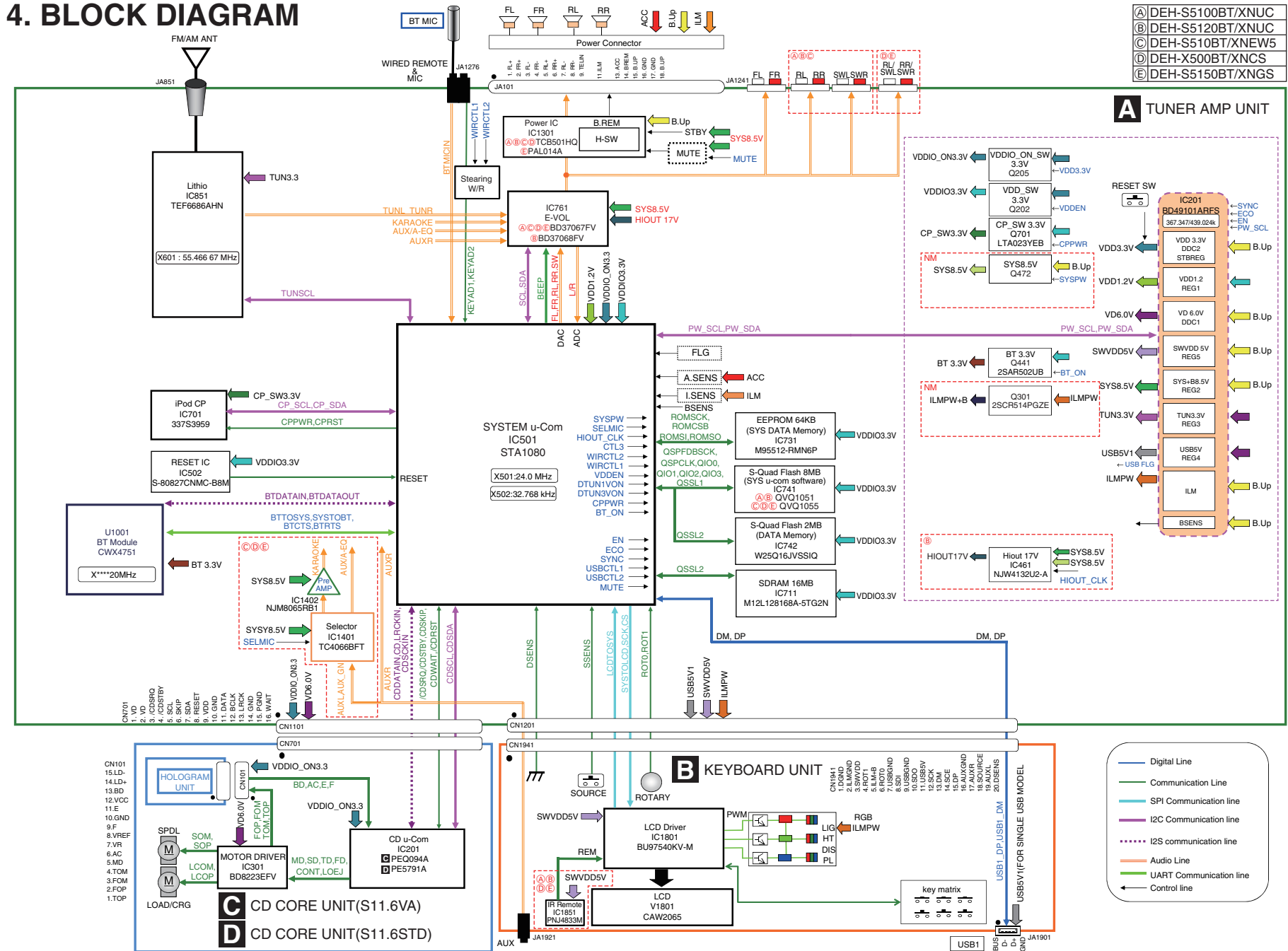
3.4 CLEANING



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

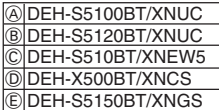


4. BLOCK DIAGRAM

4.1 BLOCK DIAGRAM

4

F



MAX	TYP	PART NO.
150.0 mA		STA1080
171 mA		S11.6 STD
7.5 mA	6.0 mA	33753959
150.0 mA		STA1080
0.0 mA	0.0 mA	S-80827CNMC-B8M
17.0 mA	10.0 mA	A/B C/D E QVQ1051 QVQ1055
35.0 mA		W25Q16JVSSIQ
2.5 mA		M95512-RMN6P
110.0 mA		M12L128168A-5TG2N
2.0 mA		TC7SH126FUS1
97.5 mA	65.0 mA	BT HIC
330.0 mA		STA1080
43.0 mA	30.0 mA	A/C/D/E BD37067FV B BD37068FV
0.018 mA		
0.0 mA		TC4066BFT
1.0 mA		NJM8065RB1
10.0 mA	3.0 mA	BU97540KV-M
2.0 mA		TC7SET08FUS3
120 mA		
100.0 mA		
1 000.0 mA	300.0 mA	S11.6 STD
1 500.0 mA	1 000.0 mA	Front USB
215.0 mA	150.0 mA	Lithio
10.0 mA	7.0 mA	BD37068FV
20.0 mA	20.0 mA	
300 mA	185 mA	

5

6

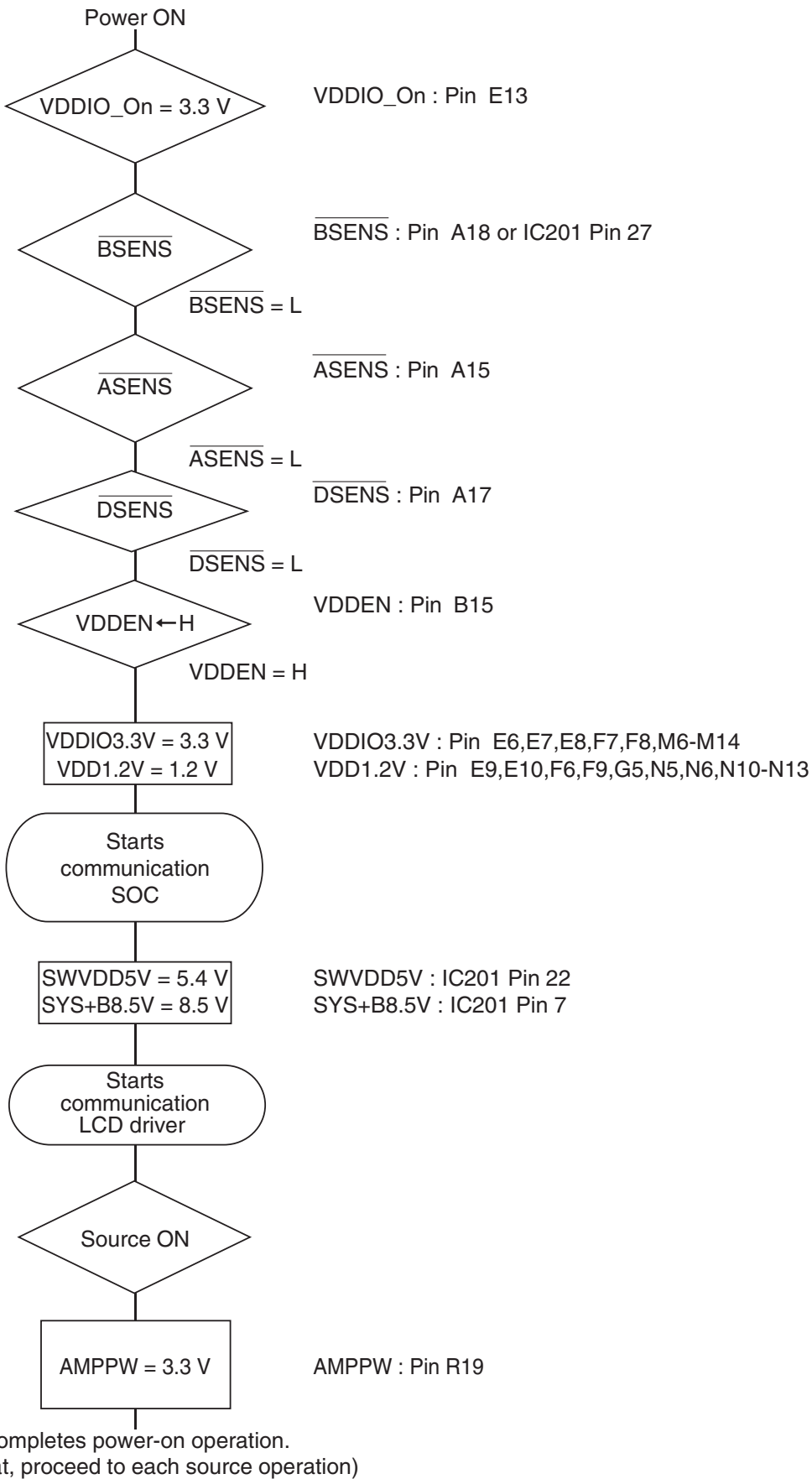
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8

5. DIAGNOSIS

5.1 OPERATIONAL FLOWCHART

Signal on System ucom(IC501)



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.

- 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.

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.
- 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/iPhone

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.
 - Disconnect the USB device.
 - Change to a different source.
- iPhone failure.
 - Disconnect the cable from the iPhone. Once the iPhone's main menu is displayed, reconnect the iPhone and reset it.

ERROR-23

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

ERROR-16

- The iPhone firmware version is old.
 - Update the iPhone version.
- iPhone failure.
 - Disconnect the cable from the iPhone. Once the iPhone's main menu is displayed, reconnect the iPhone and reset it.

STOP

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

NO BT DEVICE GO TO BT MENU TO REGISTER

- No Bluetooth device found.
 - Connect the unit and iPhone via Bluetooth.

CONN. FAILED PRESS BAND KEY TO RETRY

- Bluetooth connection with iPhone failed.
 - Press BAND /  to make a connection again.

DISCONNECTED PRESS BAND KEY TO RETRY

- Bluetooth connection with iPhone failed.
 - Press BAND /  to make a connection again.

Bluetooth device

ERROR-10

- The power failed for the Bluetooth module of the unit.
 - Turn the ignition switch OFF and back to ACC or ON.

Pandora

ERROR-19

- Communication failed.
 - Disconnect the cable from the device. Once the device's main menu is displayed, reconnect the device and reset it.

NOT FOUND

- The Pandora application has not started running yet.
 - Start up the Pandora application.

RATING ERROR

- The thumb rating operation was disabled.
 - Run the same command for another track.

CAN'T SKIP

- The skip operation was disabled.
 - Run the same command for another track.

THUMB ERROR

- Unable to save thumb rating.
 - Try again later.

BOOKMARK ERR

- Unable to save BookMark.
 - Try again later.

INOPERABLE

- The operation to save BookMark or add station was disabled.
 - Run the same command for another track.

UNABLE TO ADD

- Unable to add station.
 - Try again later.

SKIP LIMIT

- Due to music licensing restrictions, Pandora limits the total number of skips per hour.
 - Wait until Pandora allows you to skip again.

UPDATE APP

- This version of the Pandora application is not supported.
 - Connect a device that has a compatible version of the Pandora application installed.

LOG IN ERROR

- Your Pandora account is not logged in.
 - Disconnect the cable from the device, and log in to your Pandora account. Then reconnect the device.

ERROR

- Device error message displayed in the Pandora application.
 - Check the connected device.
- Pandora system is undergoing maintenance.
 - Try again later.

NO STATIONS

- No station found.
 - Create a station in the Pandora application on your connected device.

A

NO BT DEVICE GO TO BT MENU TO REGISTER

- No Bluetooth device found.
 - Connect the unit and the device via Bluetooth.

CONN. FAILED PRESS BAND KEY TO RETRY

- Bluetooth connection failed.
 - Press **BAND** /  to make a connection again.

CHECK APP PRESS BAND KEY TO RETRY

- Connection to the Pandora application failed.
 - Press **BAND** /  to make a connection again.

DISCONNECTED PRESS BAND KEY TO RETRY

- Bluetooth connection lost.
 - Press **BAND** /  to make a connection again.

STATION LIMIT

- A new station cannot be added.
 - Delete an old station to open a spot for a new one.

C

CANNOT DELETE

- The station could not be deleted.
 - Run the same command for another station.

BAD NETWORK

- The connected device is out of area.
 - Connect the device to a network.

UNAVAILAVLE

- The connected device is out of area.
 - Connect the device to a network.
- The operation was disabled.
 - Run the same command for another station.

D

APP**CONNECT APP**

- Pioneer Smart Sync connection is not made.
 - Make a connection with Pioneer Smart Sync.

E

F

Spotify**NOT FOUND**

- The Spotify application has not started running yet.
 - Start up the Spotify application.

NO BT DEVICE GO TO BT MENU TO REGISTER

- No Bluetooth device found.
 - Connect the unit and the device via Bluetooth.

CONN. FAILED PRESS BAND KEY TO RETRY

- Bluetooth connection failed.
 - Press **BAND** /  to make a connection again.

CHECK APP PRESS BAND KEY TO RETRY

- Connection to the Spotify application failed.
 - Press **BAND** /  to make a connection again.

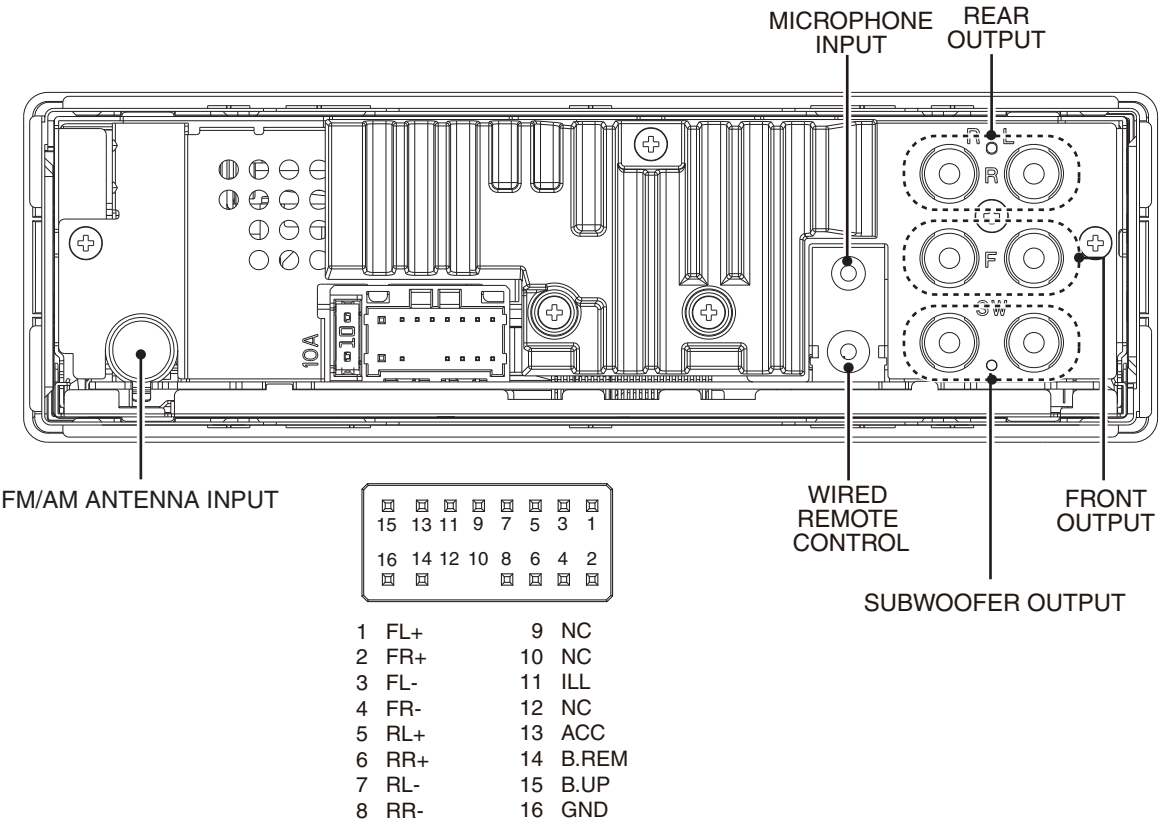
DISCONNECTED PRESS BAND KEY TO RETRY

- Bluetooth connection lost.
 - Press **BAND** /  to make a connection again.

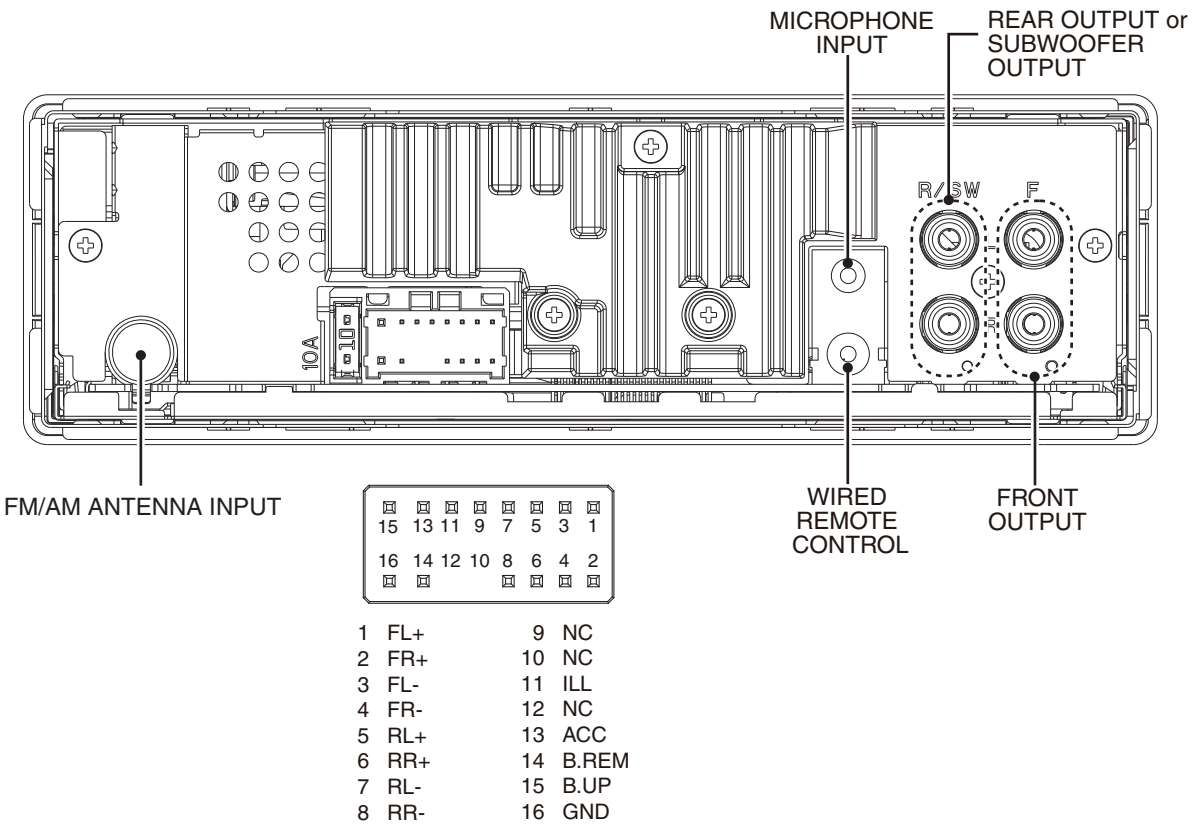
CHECK APP

- Connection to the Spotify application failed.
 - Follow the instructions that appear on the screen.

DEH-S5100BT/XNUC, DEH-S5120BT/XNUC, DEH-S510BT/XNEW5



DEH-X500BT/XNCS, DEH-S5150BT/XNGS



Part Ref.	Part Number	Part Name	Part position	Symptom
-	CEK1415	Fuse	①	Product no operation
P852	IMSA-6803-01Y900	Surge Absorber	②	Tuner source no sound or abnormal sound
P1243	FSMD075-24R	Poly Switch	③	RCA no ouput or abnormal condition
P1276	FSMD075-24R	Poly Switch	④	Wired remote no operation

Note) About Poly Switch for RCA output

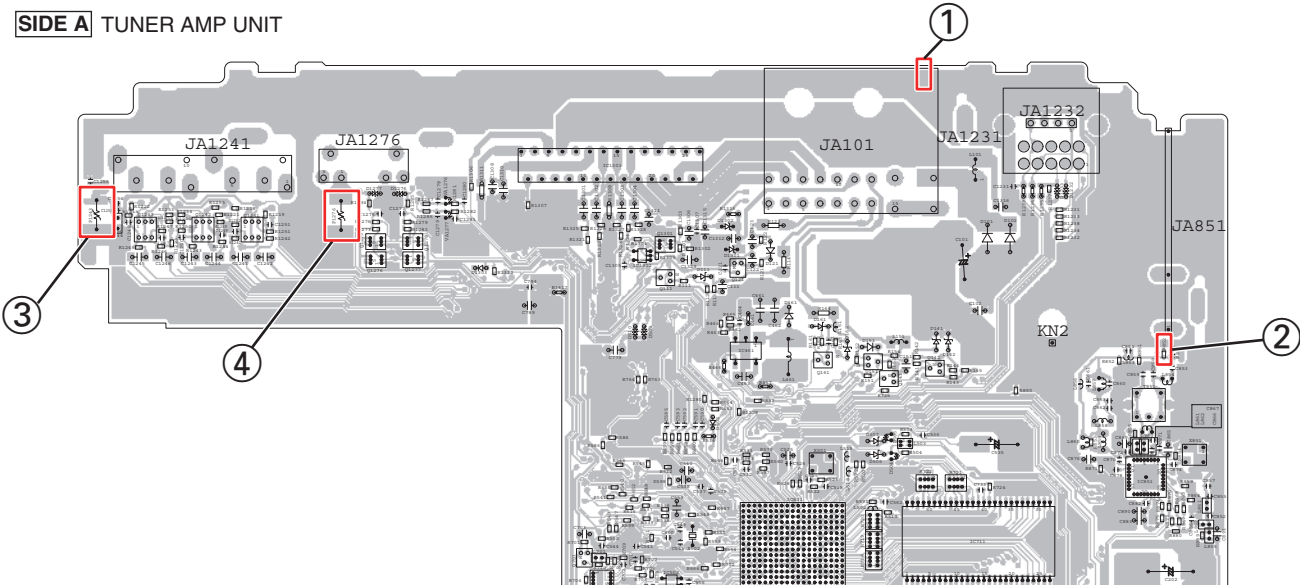
This product may receive excessive current if the power line connection of the external product is incorrect, such as Ground connection failure.

You cannot turn on the external product connected to this product as the power is not supplied if the poly switch is working to cut the circuit.

If you find the symptoms above, check whether or not the poly switch is working to cut the circuit.

If there is any problem (you cannot turn on the power of external unit), check the power connection (Ground) of external unit.

SIDE A TUNER AMP UNIT

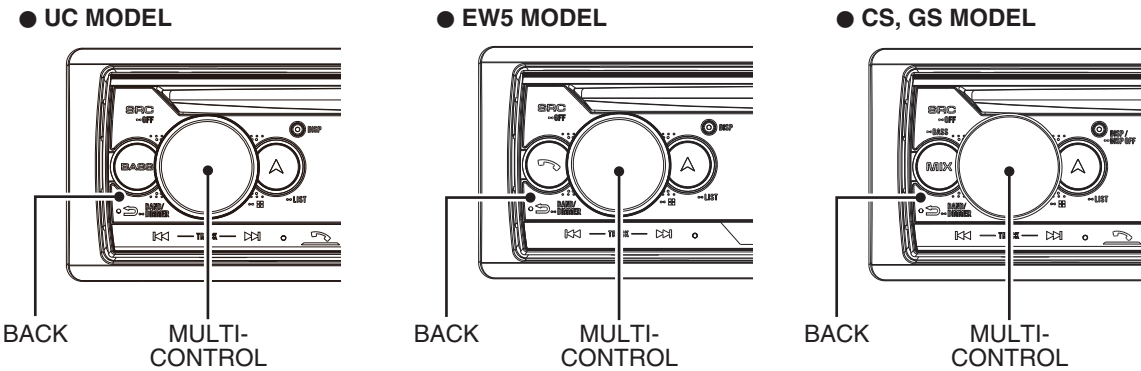


[The symptom when the frequency becomes out of specification]

The clock is too fast or slow.

[How to enter PCL checking mode]

Hold down the MULTI-CONTROL button and the BACK button and turn BUP and ACC ON.

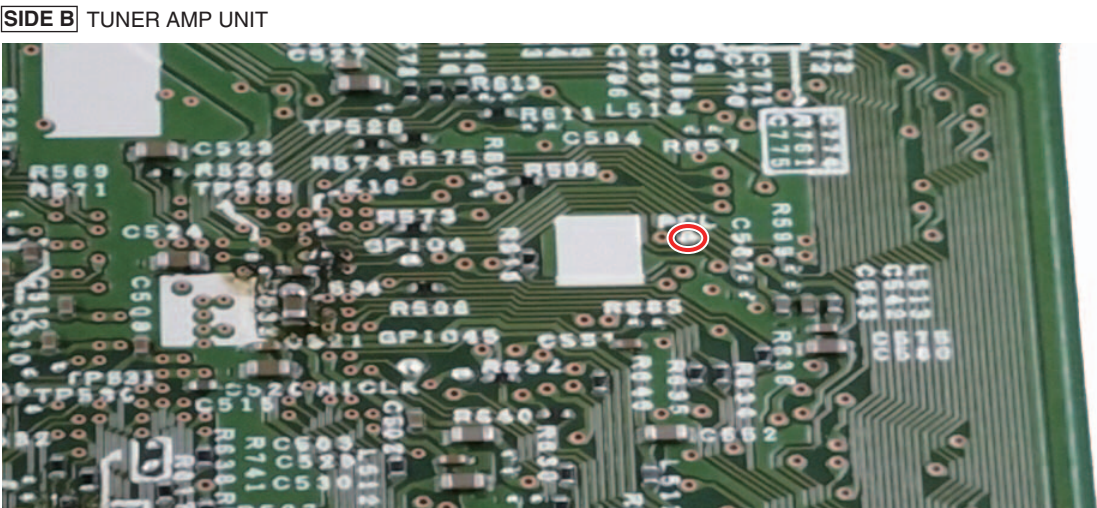


[Check item of the PCL]

Check that the frequency of the [PCL] test point is 32.768 kHz ± 1.31 Hz.

[Repair method]

Replace X502.



1 2 3 4

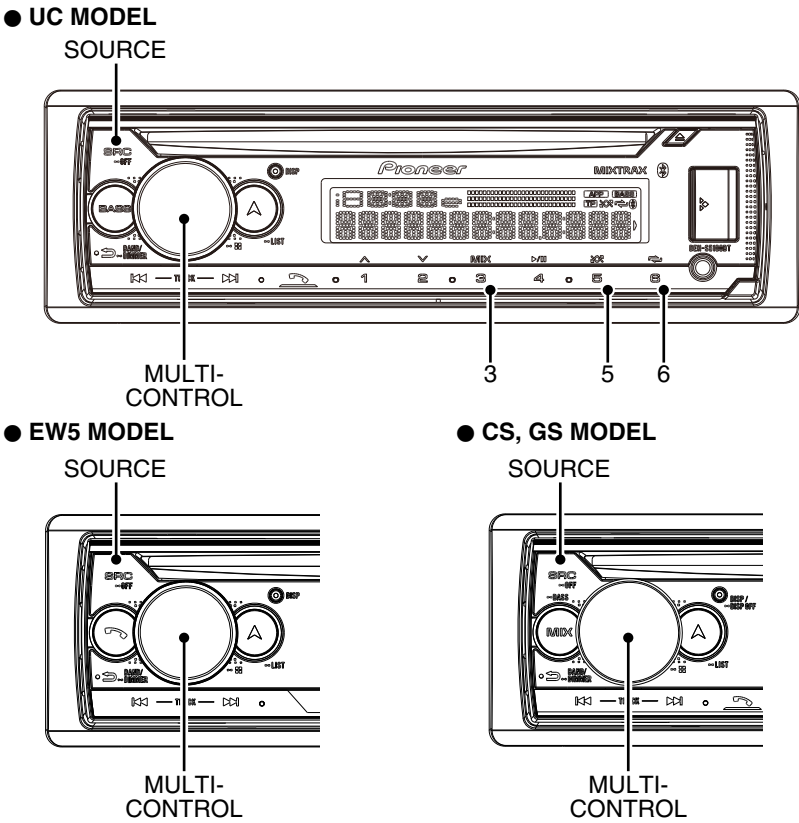
6. SERVICE MODE

6.1 DISPLAY TEST MODE1

A

[How to enter Test mode]

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



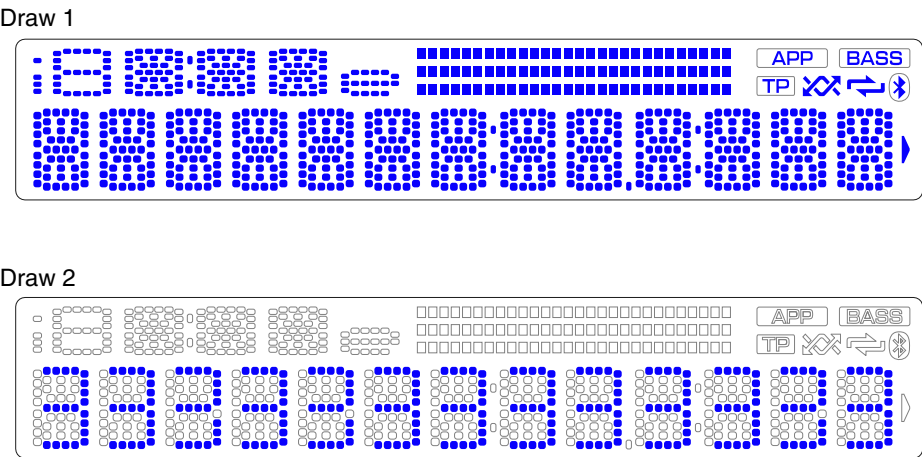
D

Confirmation item	Operate	Grille condition	
		LCD	ILM
All light up	Button 5 + Button 6	States 1	Red
All light off	SOURCE	States 2 (No light)	No light
Button feeling (and ILM light)	Button 3	States 3	Blue

E

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.



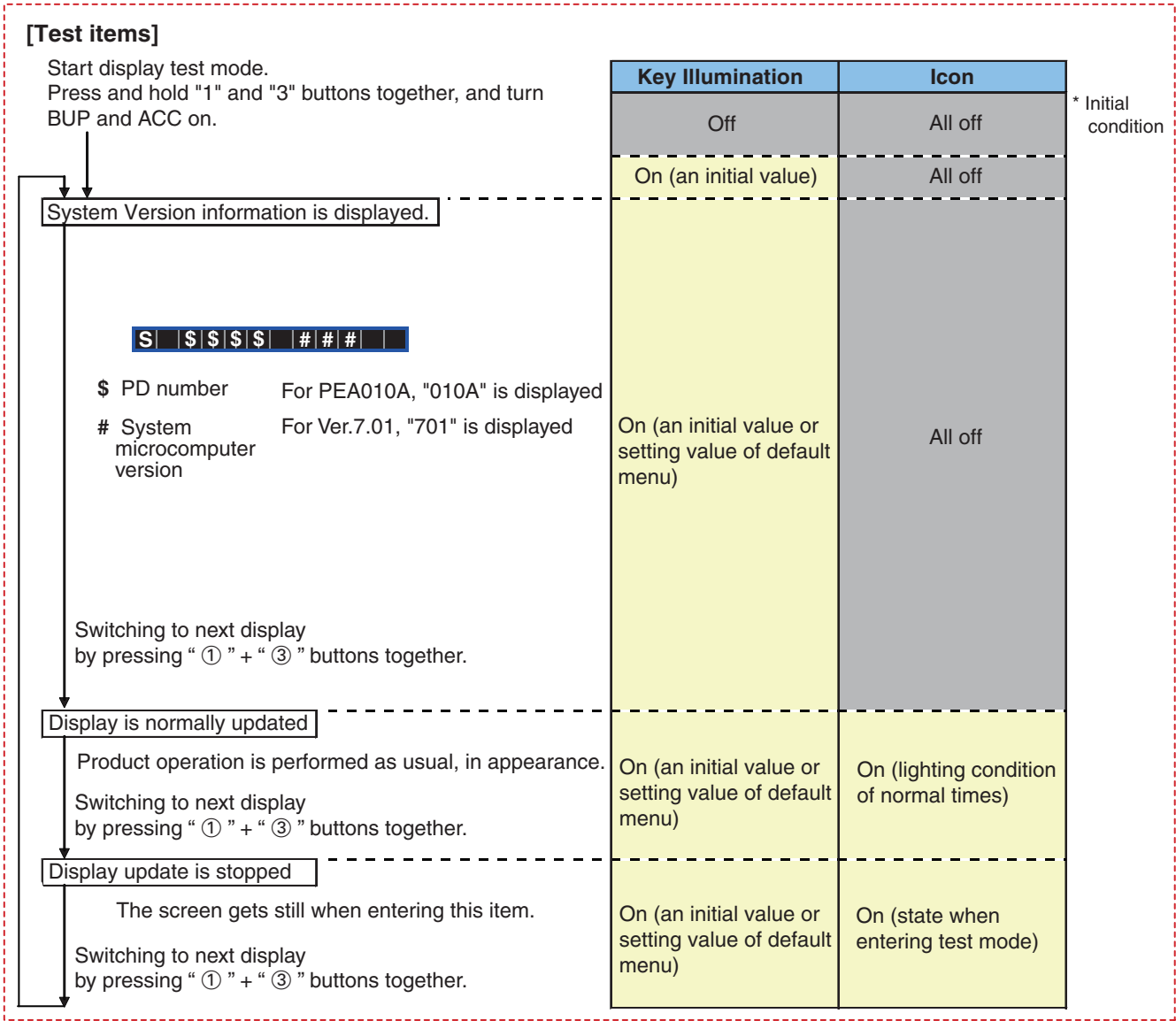
The information such as the system microcomputer version is checked.

[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	



A

Outline

This product will upgrade systems using a USB memory.

[Operating Conditions]

BUP ON + ACC ON

[Description]

Please refer to the following contents at procedures of upgrades and flow. It contains Bluetooth upgrades.
In case of finishing software upgrading and displaying [COMPLETED], the setting is cleared and set to initial state same as System Reset Function.

- B
- Procedure

1. Set BUP ON and ACC ON

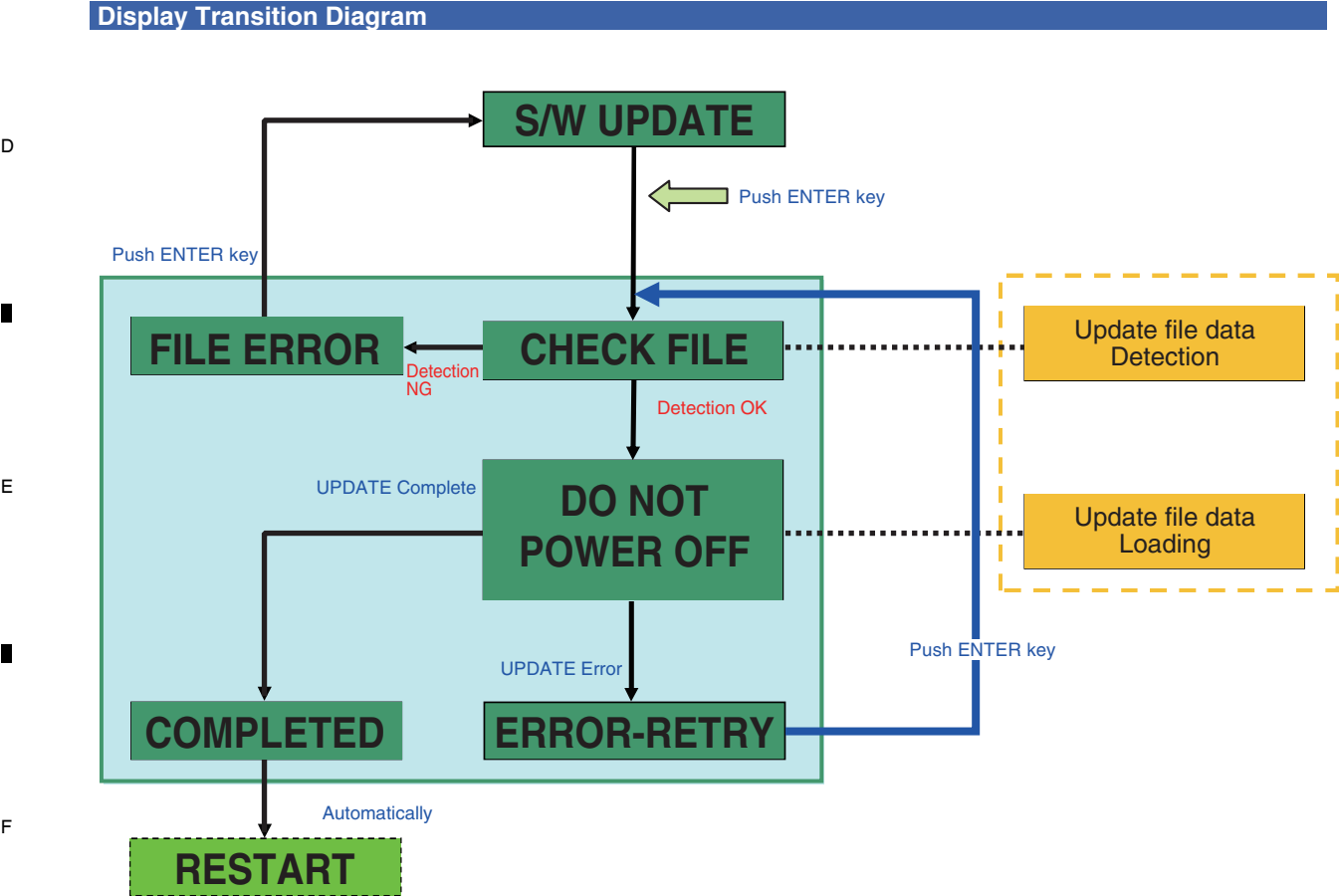
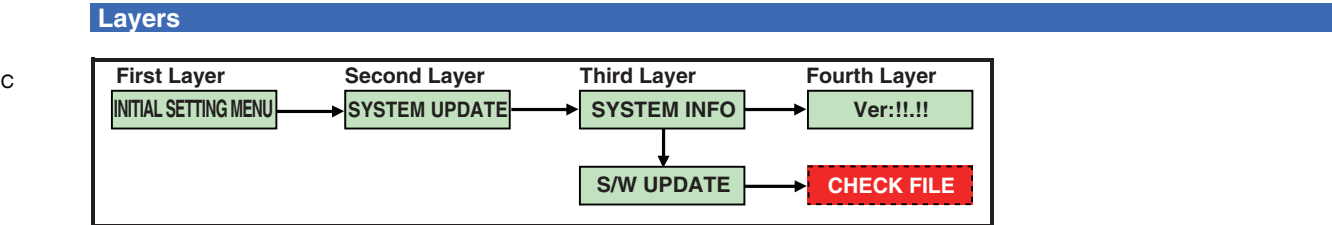
2. Save upgade data to USB memory and insert USB memory to product.
* File extension : *.scd

3. Enter [INITIAL SETTING MENU], select [S/W UPDATE] and push ENTER key. Wait [CHECK FILE] state.

4. The unit checks upgrade data file and starts updating automatically.

5. Wait until the end of updating. (Alternately displaying [DO NOT] and [POWER OFF] 5-second intervals.)

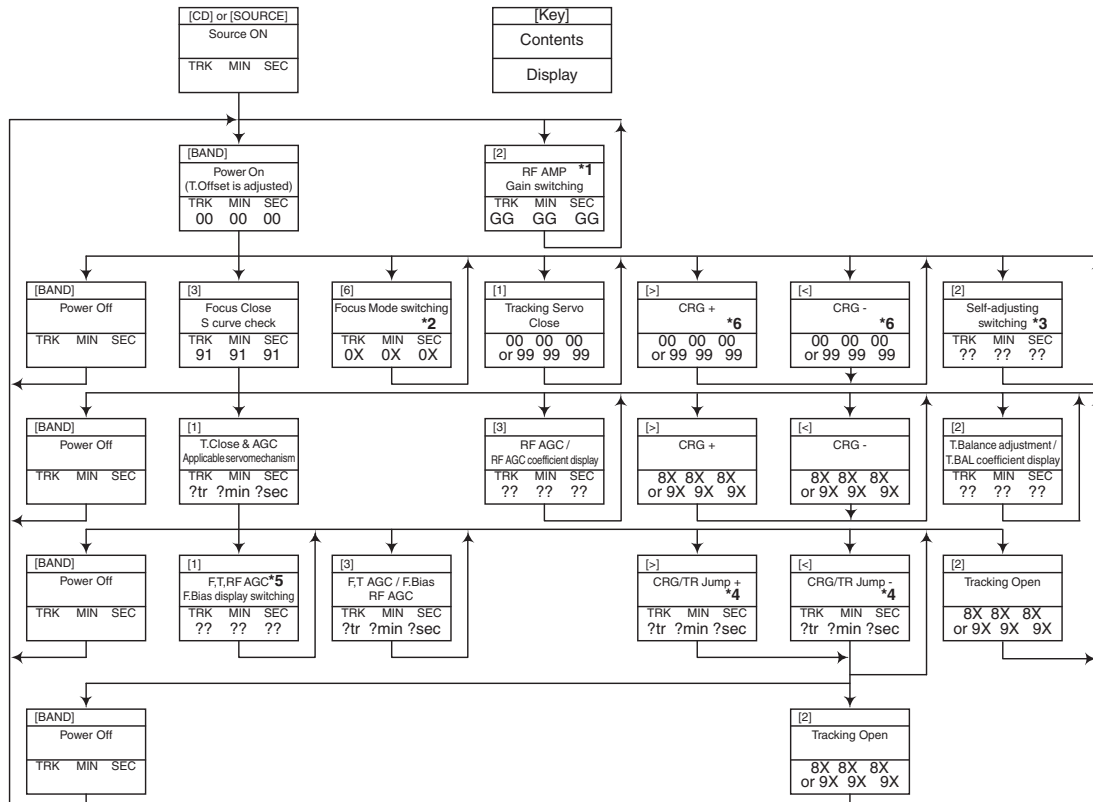
6. If update is completed, displaying [COMPLETED] and restarting automatically.



6.4 CD TEST MODE

● Flow Chart

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



- *1) TYP → + 6 dB → + 12 dB
TRK MIN SEC → TRK 06 MIN 06 SEC 06 → TRK 12 MIN 12 SEC 12
- *2) Focus Close → S. Curve → F EQ measurement setting
TRK 00 MIN 00 SEC 00 → TRK 01 MIN 01 SEC 01 → TRK 02 MIN 02 SEC 02
(TRK 99 MIN 99 SEC 99)
- *3) F.Offset Display → RF.Offset → T.Offset Display → Switch to the order of the original display
- *4) 100TR Jump
- *5) TRK/MIN/SEC → F.AGC → T.AGC Gain → F.Bias → RF AGC
- *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

A 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.

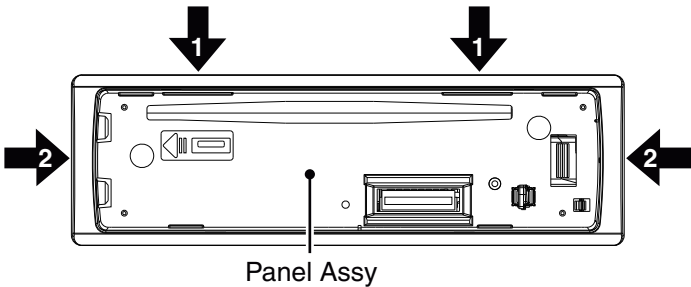
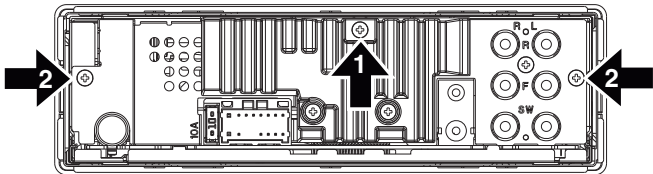


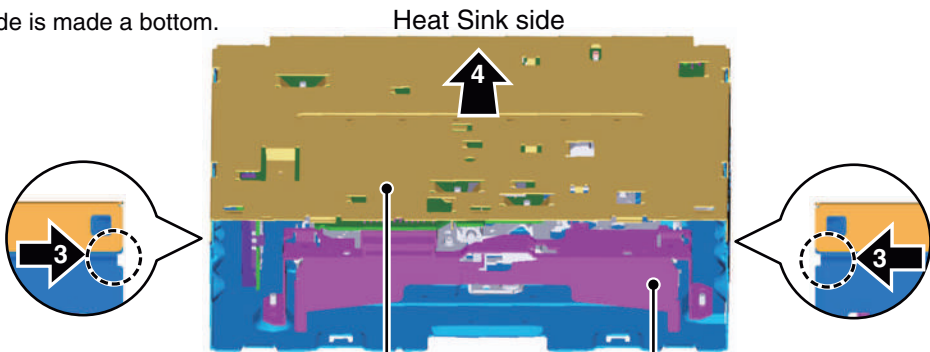
Fig.1

● Removing the CD Mechanism Module (Fig.2)

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



C The CD Mechanism Module side is made a bottom.



- ➡3 Push the area and remove the two hooks.
- ➡4 Slide the Tuner Amp Assy in the direction of the arrow.

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.

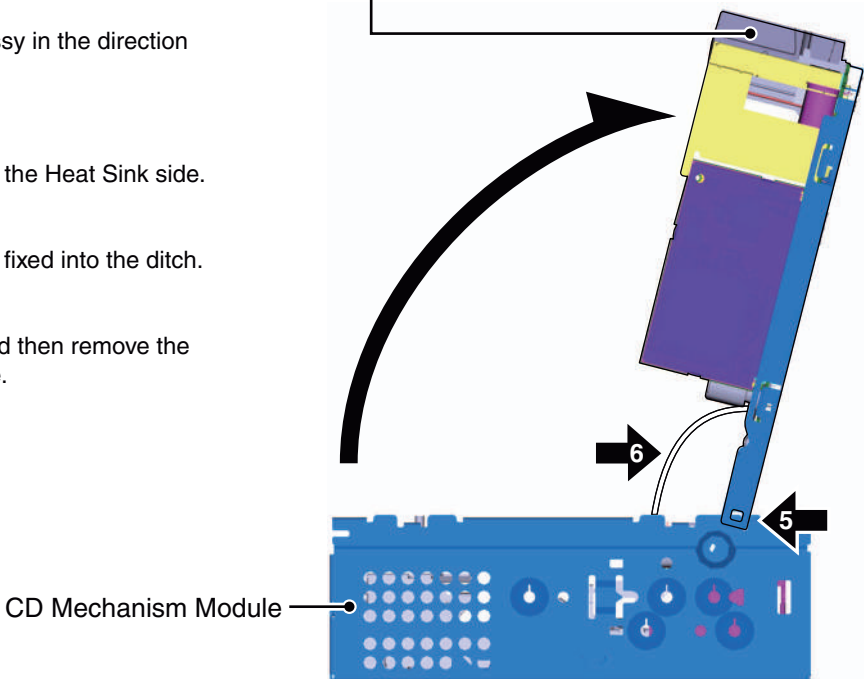


Fig.2

● Removing the Tuner Amp Unit (Fig.3)

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

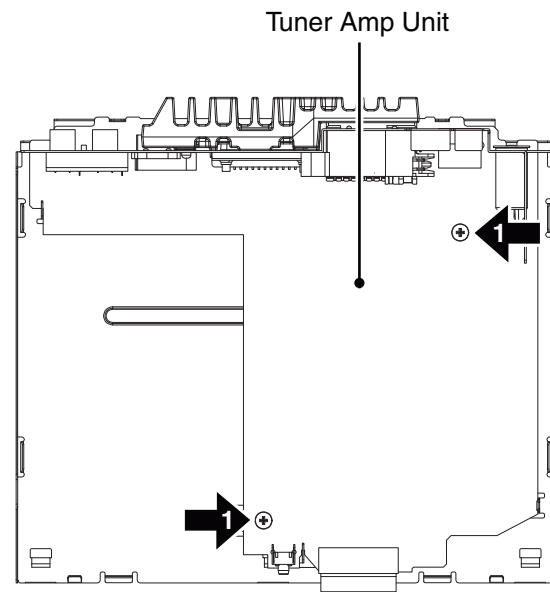


Fig.3

● Attention of removing (Fig.4)

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

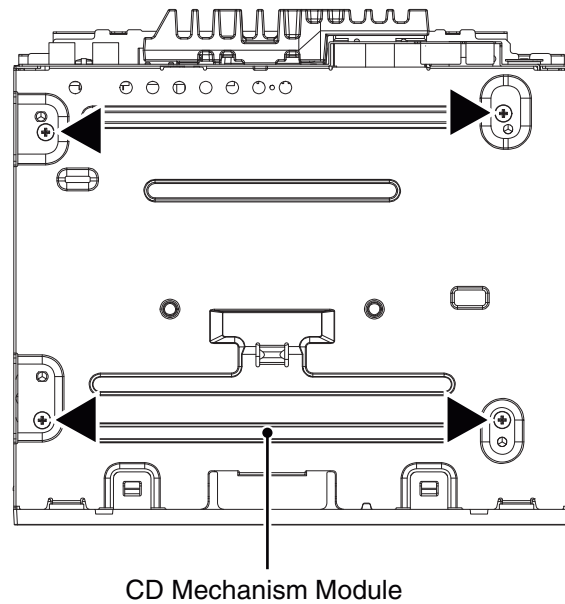


Fig.4

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

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

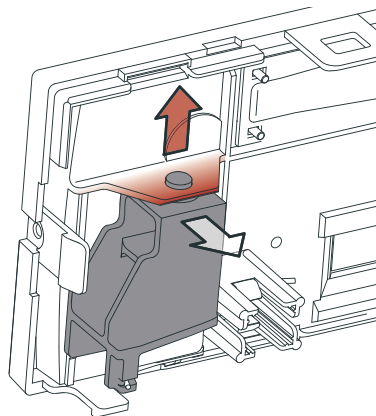


Fig.5

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

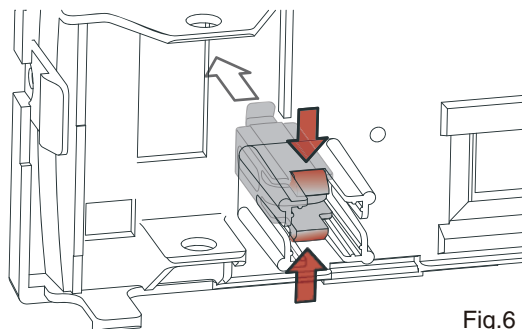


Fig.6

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

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

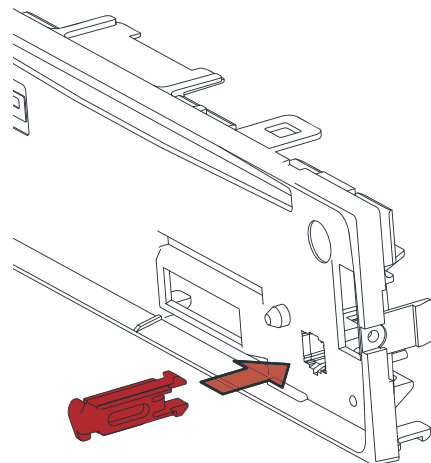


Fig.7

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

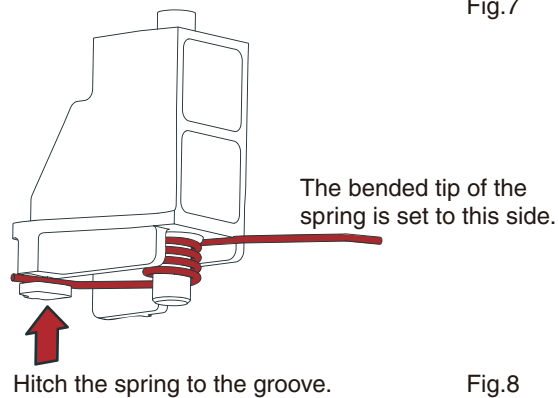


Fig.8

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.

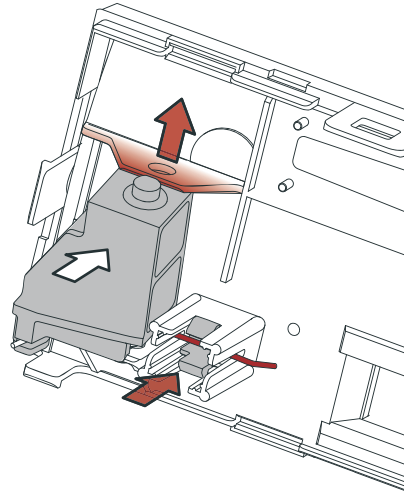
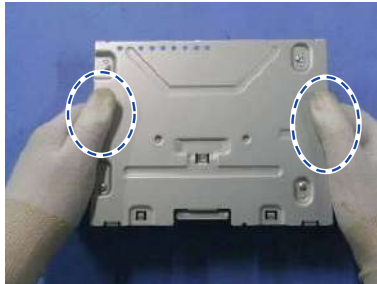


Fig.9

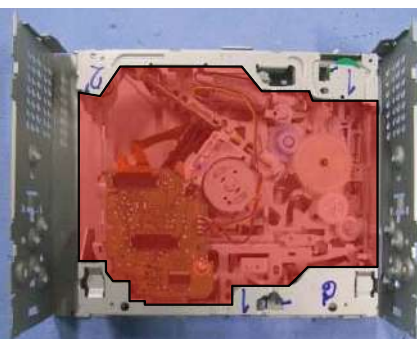
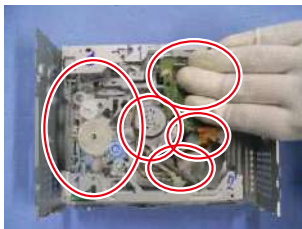
A ● How to carry the mecha unit

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



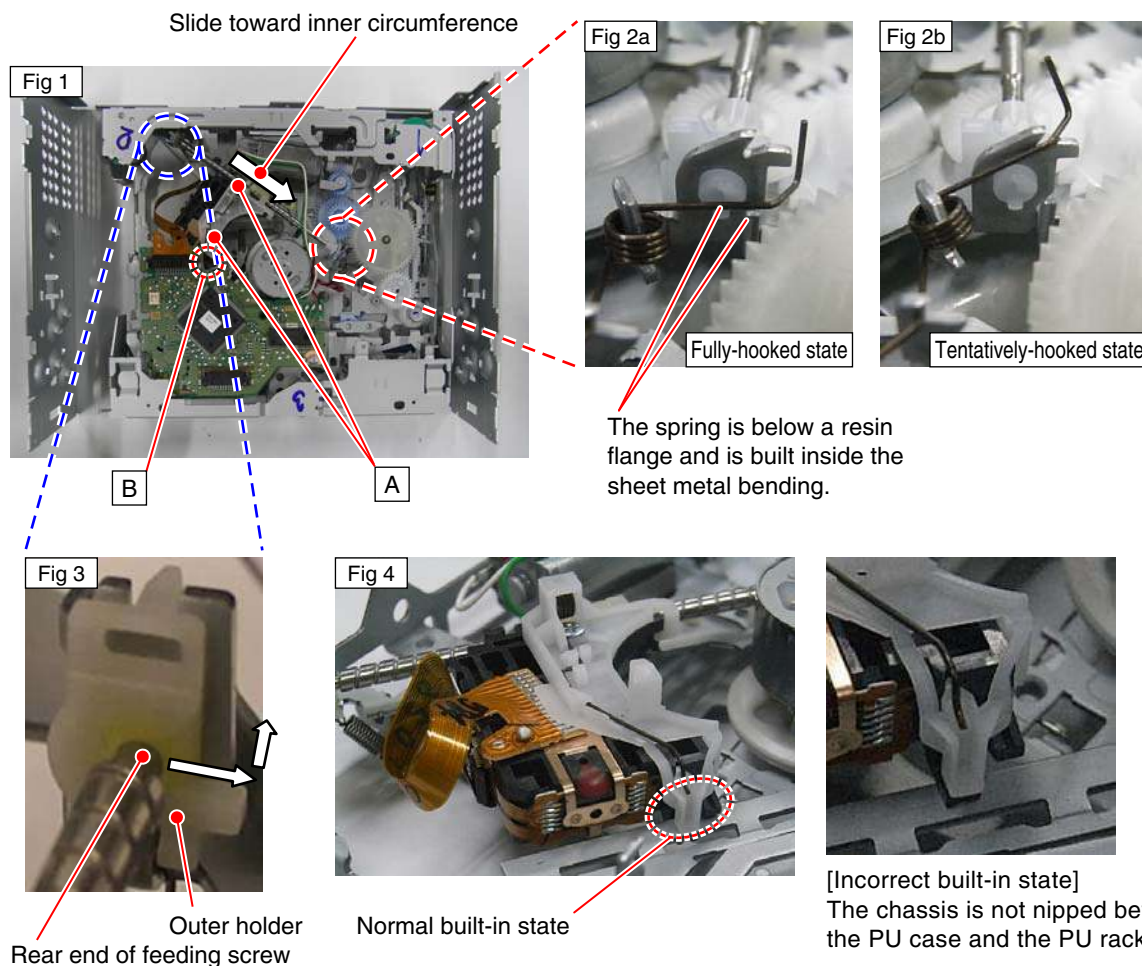
● How to remove the PU unit

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.

8.3 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 :

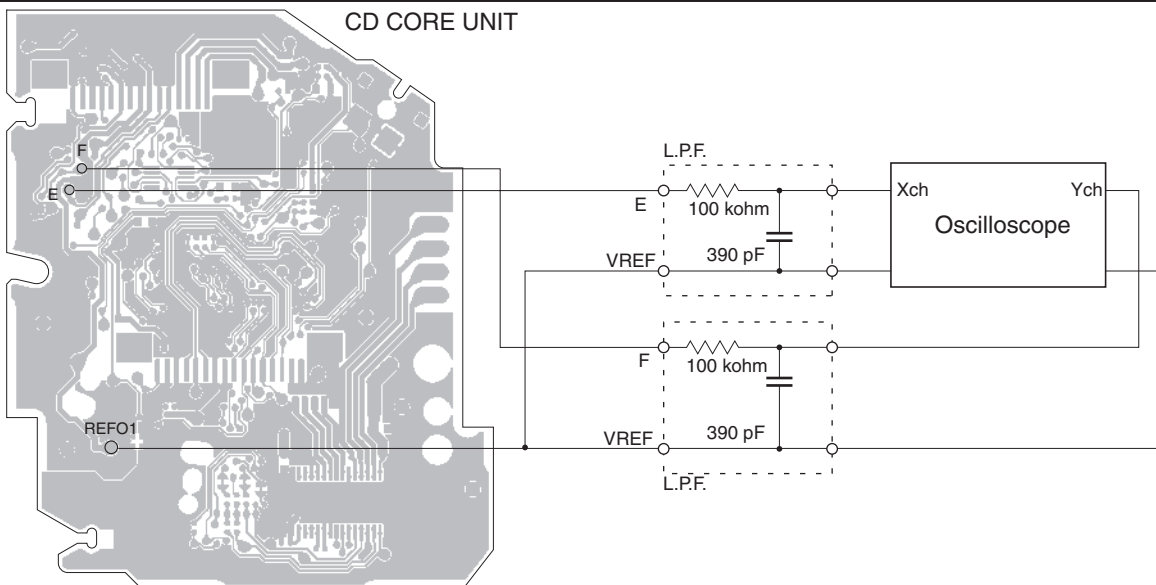
To check that the grating is within an acceptable range when the PU unit is changed.

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



• Checking Procedure

1. In test mode, load the disc and switch the 3 V regulator on.
2. Using the > and < 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 L.P.F. 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

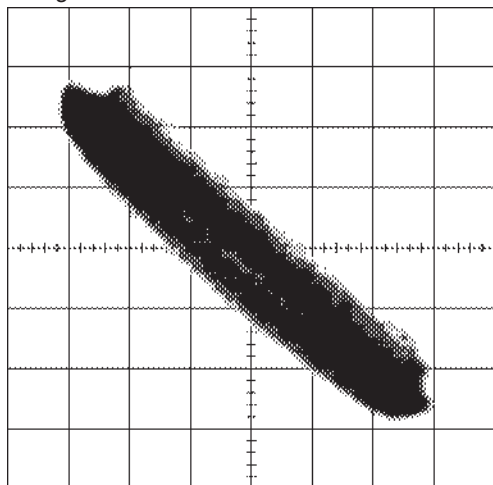
Reloading the disc changes the clamp position and may decrease the "wobble".

A Grating waveform

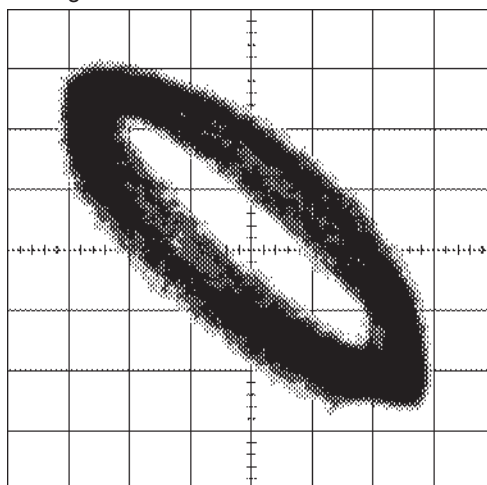
Ech -> Xch 20 mV/div, AC

Fch -> Ych 20 mV/div, AC

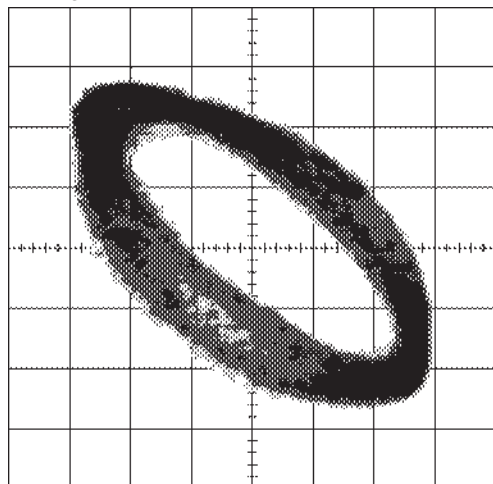
0 degrees



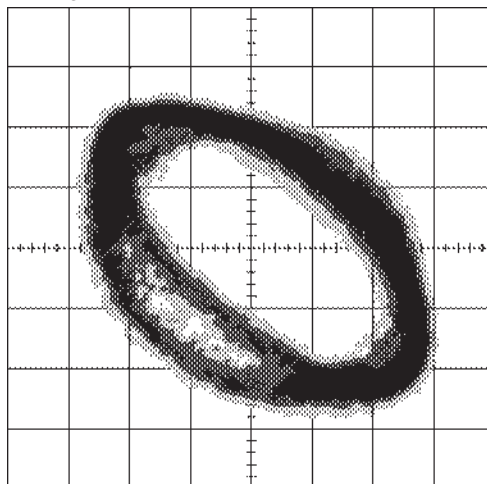
30 degrees



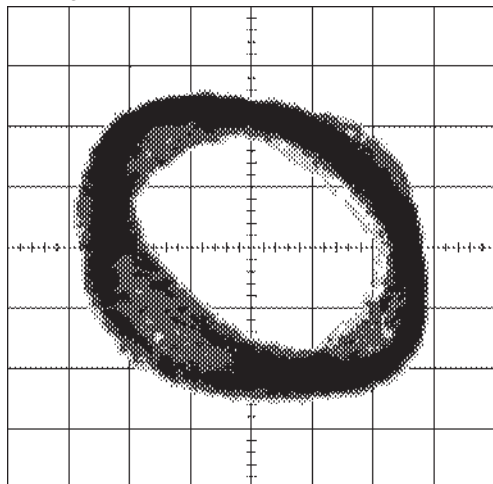
45 degrees



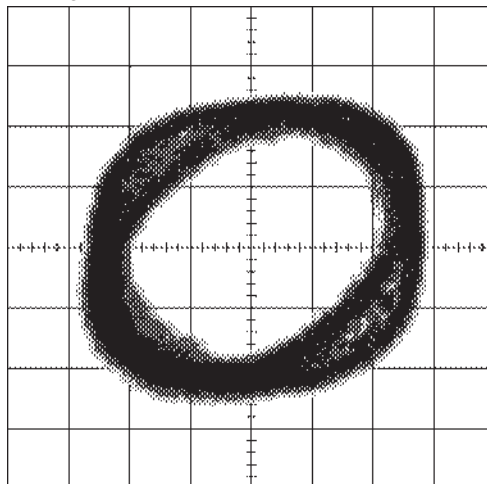
60 degrees



75 degrees



90 degrees

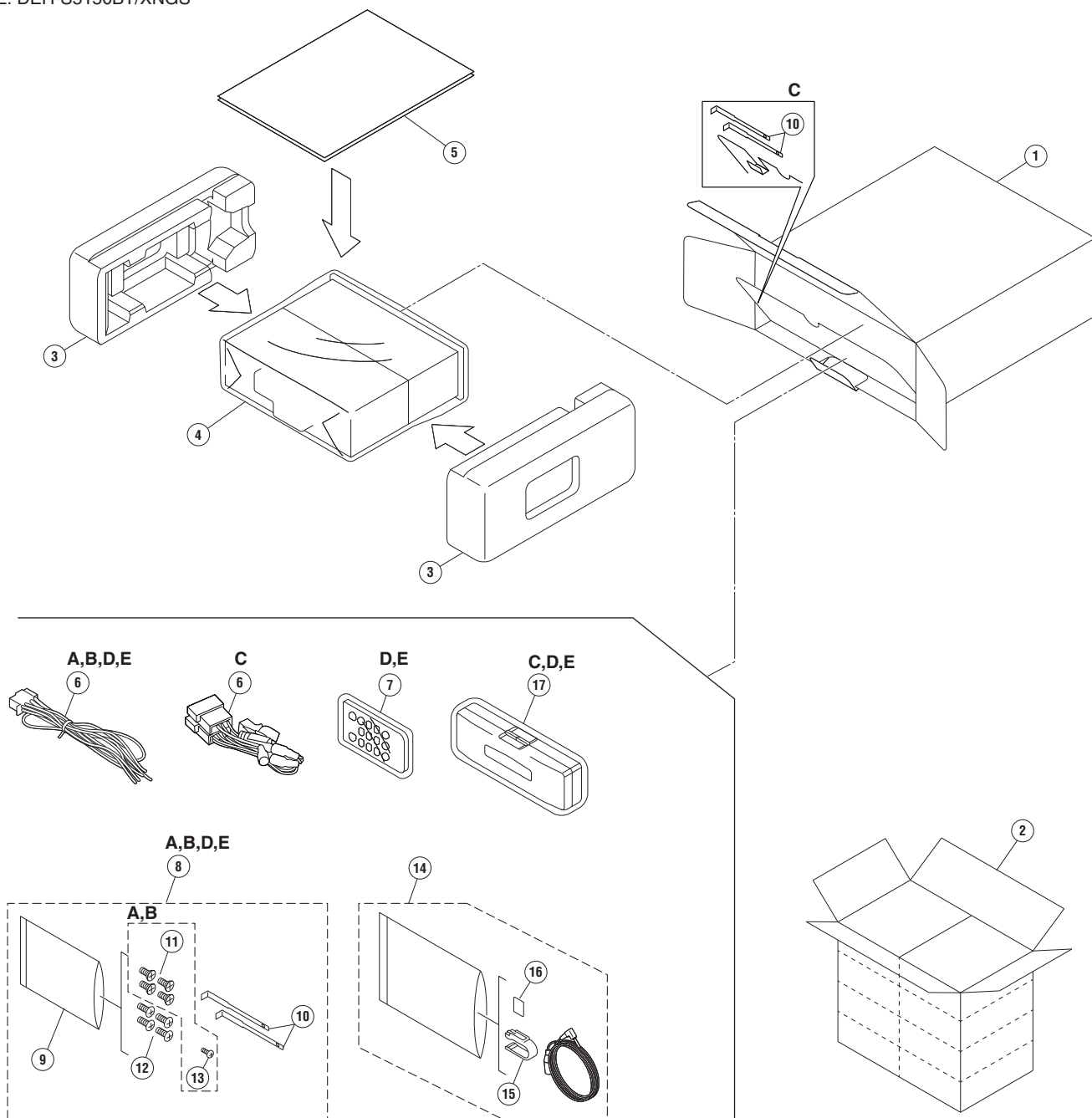


9. EXPLODED VIEWS AND PARTS LIST

- 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

A: DEH-S5100BT/XNUC
B: DEH-S5120BT/XNUC
C: DEH-S510BT/XNEW5
D: DEH-X500BT/XNCS
E: DEH-S5150BT/XNGS



(1) PACKING SECTION PARTS LIST

Mark	No.	Description	DEH-S5100BT /XNUC	DEH-S5120BT /XNUC	DEH-S510BT /XNEW5	DEH-X500BT /XNCS	DEH-S5150BT /XNGS
A	1	Unit Box	QHG4388	QHG4389	QHG4387	QHG4391	QHG4390
	2	Contain Box	QHL4388	QHL4389	QHL4387	QHL4391	QHL4390
	3	Protector	CHP4594	CHP4594	CHP4594	CHP4594	CHP4594
	4	Polyethylene Bag	CEG1173	CEG1173	QEG3001	QEG3001	QEG3001
	5-1	Owner's Manual	Not used	Not used	QRB3772	Not used	QRD3587
	5-2	Quick Start Guide	QRD3581	QRD3581	QRD3577	QRD3588	Not used
	5-3	Quick Start Guide	Not used	Not used	QRD3578	Not used	Not used
	5-4	Web IM	See Contents of Web IM(2)	See Contents of Web IM(2)	See Contents of Web IM(2)	See Contents of Web IM(2)	See Contents of Web IM(2)
	* 5-5	Warranty Card	QRY3001	QRY3001	CRY1376	Not used	Not used
	6	Cord Assy	CDP1484	CDP1484	QDP3072	CDP1484	CDP1484
	7	Card Remote Control Unit	Not used	Not used	Not used	CXE9605	CXE9605
	* 8	Accessory Assy	QEA3337	QEA3337	Not used	QEA3338	QEA3338
	9	Polyethylene Bag	CEG1160	CEG1160	Not used	CEG1160	CEG1160
	10	Handle	QNC3021	QNC3021	QNC3021	QNC3021	QNC3021
	11	Screw	CBA2384	CBA2384	Not used	CBA2384	CBA2384
	12	Screw	CBA2383	CBA2383	Not used	Not used	Not used
	13	Screw	BPZ20P060FTC	BPZ20P060FTC	Not used	Not used	Not used
	14	Microphone Assy	CPM1109	CPM1109	CPM1109	CPM1109	CPM1109
B	15	Holder	CZN7192	CZN7192	CZN7192	CZN7192	CZN7192
	16	Cushion	CZN7193	CZN7193	CZN7193	CZN7193	CZN7193
C	17	Case Assy	Not used	Not used	QXA3129	QXA3129	QXA3129

Owner's Manual, Installation Manual

Part No.	Language
QRB3772	Russian
QRD3577	English, French, Italian
QRD3578	Spanish(Espanol), German, Dutch
QRD3581	English, French, Spanish(Espanol)
QRD3587	English, Traditional Chinese, Arabic, Persian
QRD3588	English, Spanish(Espanol), Portuguese(B)

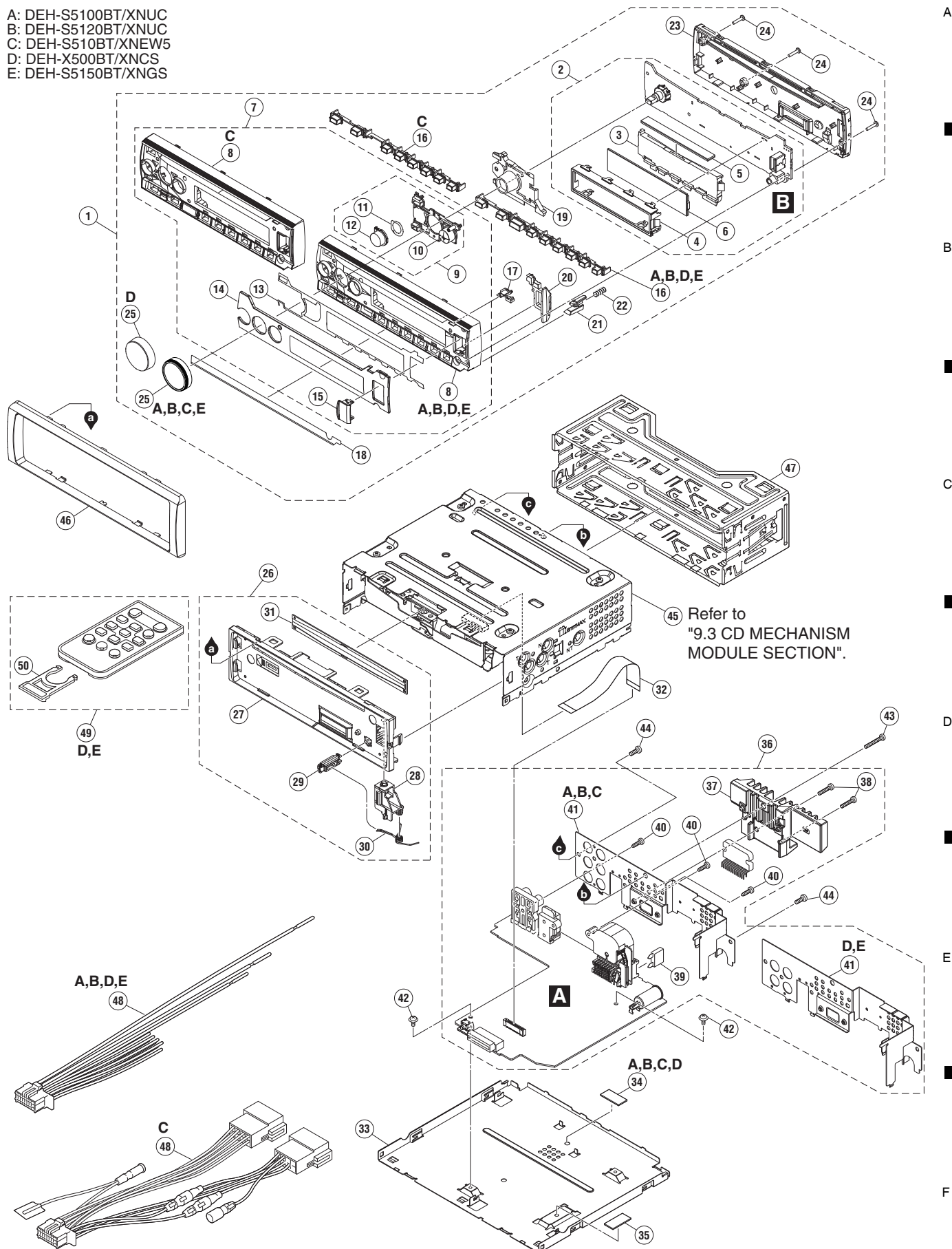
(2) CONTENTS OF WEB IM

Part No.	Language
*QRI3042 (for XNEW5)	English, French, Italian, Spanish(Espanol), German, Dutch
*QRI3044 (for XNUC)	English, French, Spanish(Espanol)
*QRI3098 (for XNCS)	English, Spanish(Espanol), Portuguese(B)

All operation manuals are supplied in PDF files by the WEB. No printed papers are available.

9.2 EXTERIOR SECTION

A: DEH-S5100BT/XNUC
 B: DEH-S5120BT/XNUC
 C: DEH-S510BT/XNEW5
 D: DEH-X500BT/XNCS
 E: DEH-S5150BT/XNGS



(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>
A	1 Detach Grille Assy	See Contrast table (2)	26	Panel Assy	QXA4716
	2 Keyboard Unit	See Contrast table (2)	27	Panel	QNS4071
	3 Lighting Conductor	QNV3151	28	Arm	QNV3025
	4 Holder	QNC3131	29	Button	QNV3026
	5 Rubber Connector	QNV3129	30	Spring	QBH3001
B	6 Segment LCD (V1801)	CAW2065	31	Cover	QNM3029
	7 Grille Unit	See Contrast table (2)	32	FFC	QDE3029
	* 8 Grille	See Contrast table (2)	33	Case	QNB3055
	* 9 Button Unit	See Contrast table (2)	34	Heat Cond Sheet	See Contrast table (2)
	* 10 Button(SRC,BACK,LIST,DISP)	QAC3302	35	Heat Cond Sheet	QNM3223
C	* 11 DS Tape	QNM3228	36	Tuner Amp Unit	See Contrast table (2)
	* 12 Button	See Contrast table (2)	37	Heat Sink	See Contrast table (2)
	* 13 DS Tape	QNM3227	38	Screw	BSZ26P120FTC
	* 14 Plate	QNS4244	39	Fuse (10 A)	CEK1415
	* 15 Door	QAT3034	40	Screw	BPZ26P080FTC
D	16 Button	See Contrast table (2)	41	Holder	See Contrast table (2)
	17 Button(EJECT)	QAC3304	42	Screw	ASZ26P050FTC
	18 Plate	See Contrast table (2)	43	Screw	BSZ26P120FTC
	19 Lighting Conductor	QNV3150	44	Screw	BSZ26P060FTC
	20 Lighting Conductor	QNV3152	45	CD Mechanism Module(11.6VA_T07) CXK5808 CD Mechanism Module(S11.6_T07) CXK5807	
E	21 Button(DETACH)	QAC3305	46	Panel	QNS4330
	22 Spring	CBH2210	47	Holder	QNC3020
	23 Cover	QNS4246	48	Cord Assy	See Contrast table (2)
	24 Screw	BPZ20P100FTC	49	Card Remote Control Unit	See Contrast table (2)
	25 Knob Unit	See Contrast table (2)	50	Cover	See Contrast table (2)

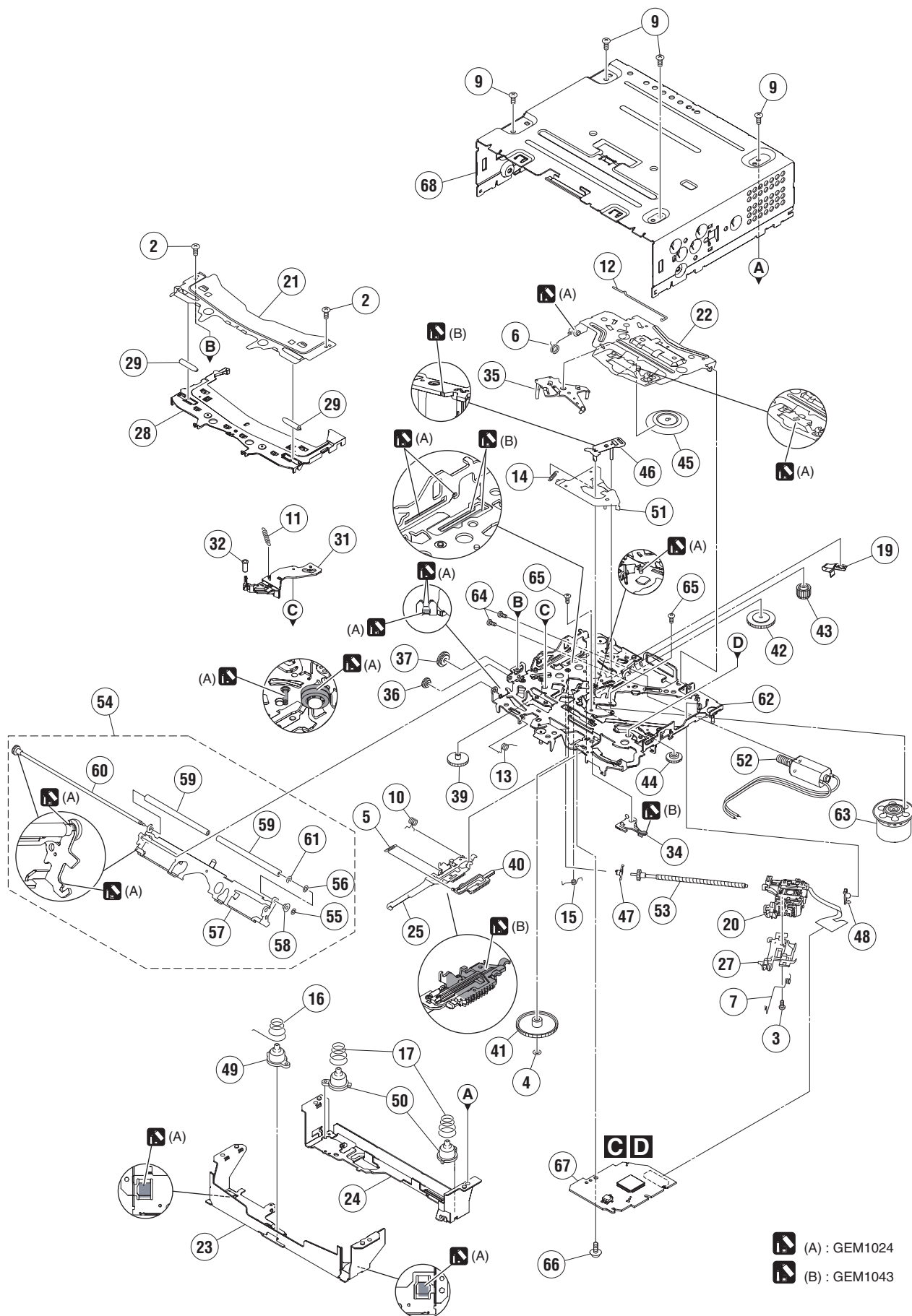
Notes: For No.45, please refer to "1.4 NOTES ON REPLACING PARTS" for part distinguish.

(2) CONTRAST TABLE

DEH-S5100BT/XNUC, DEH-S5120BT/XNUC, DEH-S510BT/XNEW5, DEH-X500BT/XNCS and DEH-S5150BT/XNGS are constructed the same except for the following:

Mark	No.	Description	DEH-S5100BT /XNUC	DEH-S5120BT /XNUC	DEH-S510BT /XNEW5	DEH-X500BT /XNCS	DEH-S5150BT /XNGS
E	1	Detach Grille Assy	QXA5829	QXA5609	QXA5610	QXA5612	QXA5611
	2	Keyboard Unit	QWM4984	QWM4984	QWM4985	QWM4984	QWM4984
	7	Grille Unit	QXA5499	QXA5519	QXA5520	QXA5522	QXA5521
	* 8	Grille	QNS4242	QNS4242	QNS4243	QNS4242	QNS4242
	* 9	Button Unit	QXA5426	QXA5426	QXA5777	QXA5779	QXA5426
F	* 12	Button	QAC3297(BASS)	QAC3297(BASS)	QAC3298(PHONE)	QAC3299(MIX)	QAC3297(BASS)
	16	Button	QAC3296 (TRACK,PHONE,1-6)	QAC3296 (TRACK,PHONE,1-6)	QAC3307 (TRACK,1-6)	QAC3296 (TRACK,PHONE,1-6)	QAC3296 (TRACK,PHONE,1-6)
	18	Plate	QNM3230	QNM3230	QNM3244	QNM3229	QNM3229
	25	Knob Unit	QXA5430	QXA5430	QXA5430	QXA5429	QXA5430
	34	Heat Cond Sheet	QNM3130	QNM3130	QNM3130	QNM3130	Not used
F	36	Tuner Amp Unit	QWM4914	QWM4915	QWM4913	QWM4917	QWM4916
	37	Heat Sink	QNR3010	QNR3010	QNR3010	QNR3010	QNR3002
	41	Holder	QNC3113	QNC3113	QNC3113	QNC3165	QNC3165
	48	Cord Assy	CDP1484	CDP1484	QDP3072	CDP1484	CDP1484
	49	Card Remote Control Unit	Not used	Not used	Not used	CXE9605	CXE9605
	50	Cover	Not used	Not used	Not used	CNU3681	CNU3681

9.3 CD MECHANISM MODULE



CD MECHANISM MODULE SECTION PARTS LIST

	<u>Mark</u>	<u>No.</u>	<u>Description</u>	<u>Part No.</u>		<u>Mark</u>	<u>No.</u>	<u>Description</u>	<u>Part No.</u>
A		1	•••••						
		2	Screw	BSZ20P040FTC		36	Gear		CNW1180
		3	Screw(M2 x 4)	CBA1835		37	Gear		CNW1181
		4	Washer	CBF1038		38	•••••		
		5	Spring	CBH3010		39	Gear		CNW1183
						40	Rack		CNW1184
		6	Spring	CBH2855					
		7	Spring	CBH2856		41	Gear		CNW1185
		8	•••••			42	Gear		CNW1186
		9	Screw	BSZ26P060FTC		43	Gear		CNW1187
B		10	Spring	CBH3011		44	Gear		CNW2287
						45	Clamper		CNW1190
		11	Coil Spring	CBH3095					
		12	Spring	CBH3014		46	Arm		CNW1192
		13	Spring	CBH3145		47	Holder		CNW1193
		14	Spring	CBH3016		48	Holder		CNW1194
		15	Spring	CBH3017		49	Damper		CNW1197
						50	Damper		CNW1198
		16	Spring	CBH3086					
		17	Spring	CBH3019		51	Arm		CNW1726
C		18	•••••			52	Motor Unit(M2)(LOAD/CRG)		CXC4026
		19	Leaf Spring	CBL1824		53	Screw Unit		CXC8894
		20	Pickup Unit(P11)(Service) for CXK5808 CXX4754			54	Arm Assy		CXE8953
			Pickup Unit(P10.6)(Service) for CXK5807 CXX3556			55	Washer		CBF1037
		21	Bracket	CND4553		56	Washer		CBF1038
		22	Arm	CND7608		57	Arm		CND6242
		23	Bracket	CND6127		58	Collar		CNW2444
		24	Bracket	CND5710		59	Roller		CNW2500
		25	Lever	CND6834		60	Gear Unit		CXE8952
D									
		26	•••••			61	Washer		YE15FTC
		27	Rack	CNV8342		62	Chassis Unit		CXE9531
		28	Guide	CNW3489		63	Motor Unit(M1)(SPDL)		CXE2273
		29	Roller	CNW1172		64	Screw		JFZ20P025FTC
		30	•••••			65	Screw		JGZ17P022FTC
		31	Arm	CNW2241		66	Screw		EBA1028
		32	Roller	CNW1175		67	CD Core Unit (S11.6VA)(for CXK5808) CWX4269		
		33	•••••				CD Core Unit (S11.6STD)(for CXK5807) CWX4023		
E		34	Arm	CNW1177		68	Chassis		CNA3373
		35	Arm	CNW1178					

Notes: For No.20 and 67, please refer to "1.4 NOTES ON REPLACING PARTS" for part distinguish.

10. SCHEMATIC DIAGRAM

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

NOTE :

□ Symbol indicates a resistor.

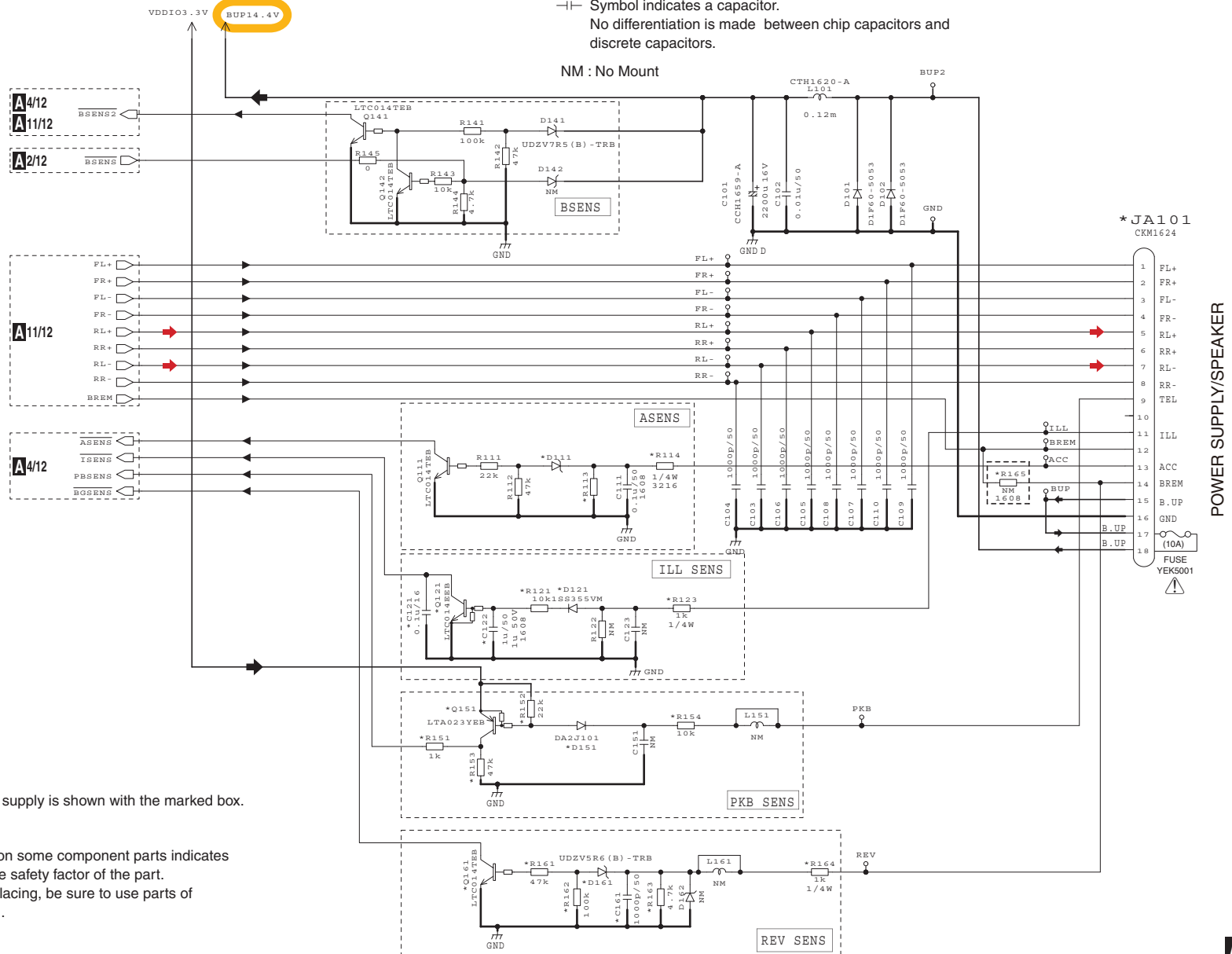
No differentiation is made between chip resistors and discrete resistors.

—||— Symbol indicates a capacitor.

No differentiation is made between chip capacitors and discrete capacitors.

NM : No Mount

A1/12 TUNER AMP UNIT (S_VEHICLE IF)



□ : The power supply is shown with the marked box.

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.

10. SCHEMATIC DIAGRAM

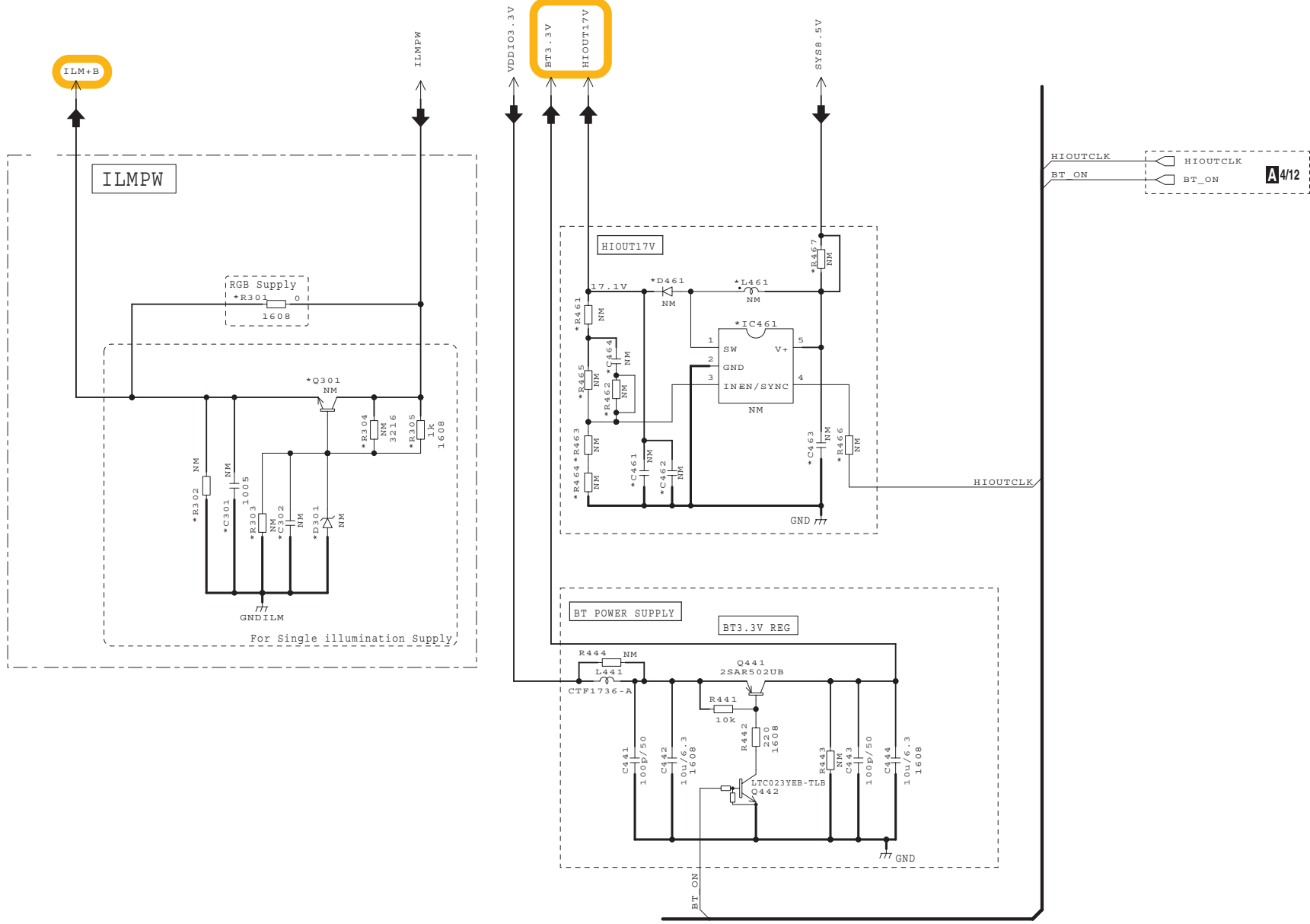
10.1 TUNER AMP UNIT(S_VEHICLE IF)

A1/12

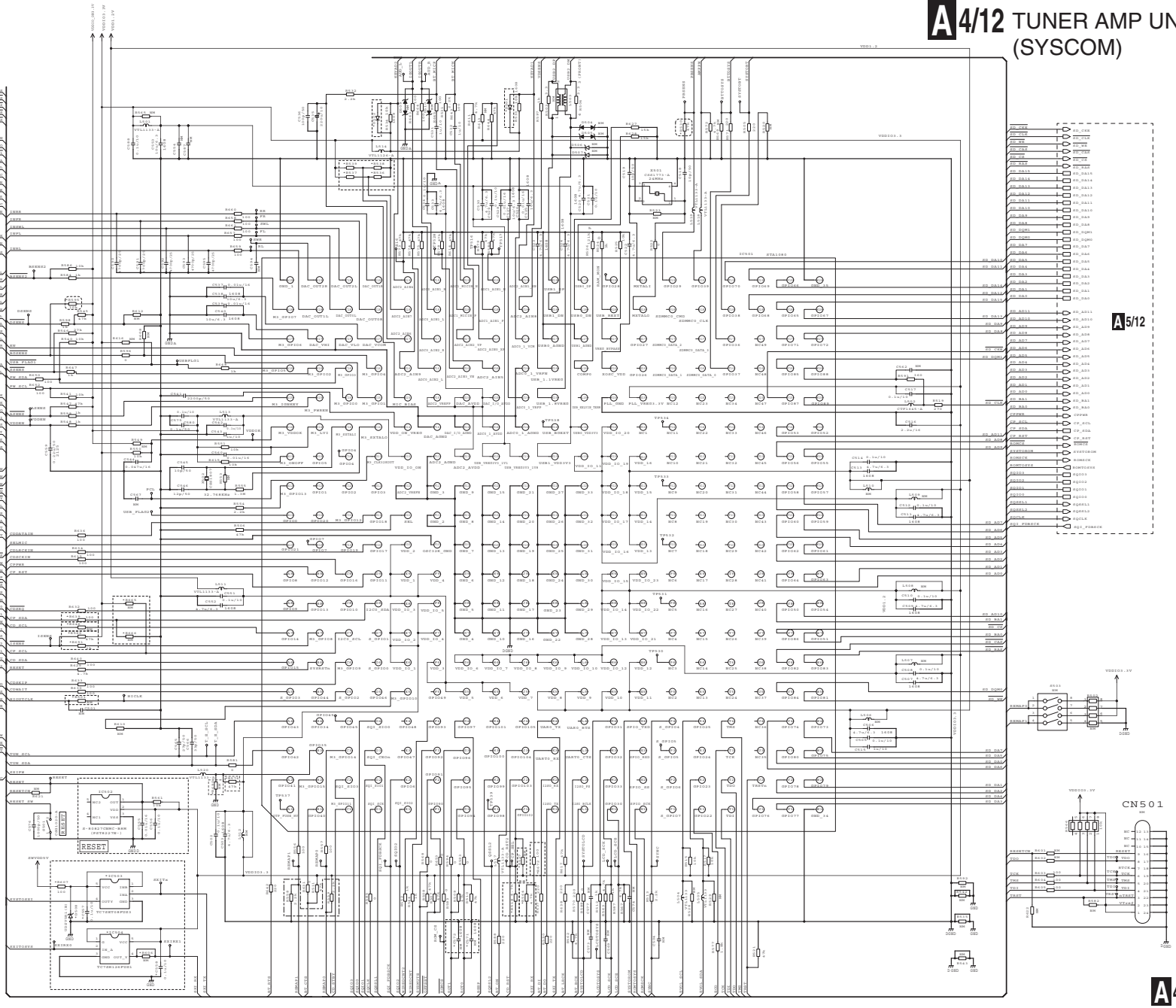
A2/12



A3/12 TUNER AMP UNIT
(OTHER SUPPLY)



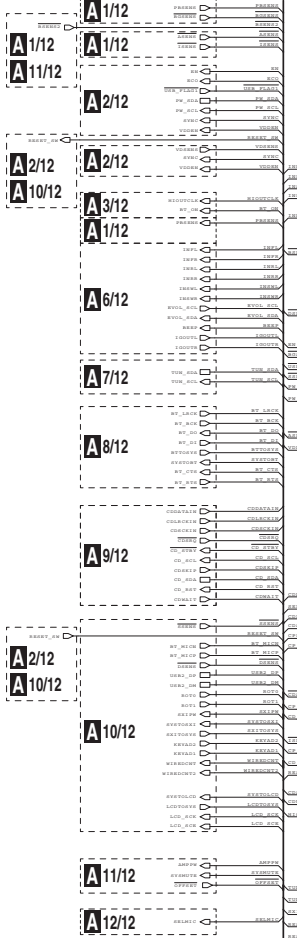
A 4/12 TUNER AMP UNIT (SYSCOM)



A 5/12

CN501

A 4/12

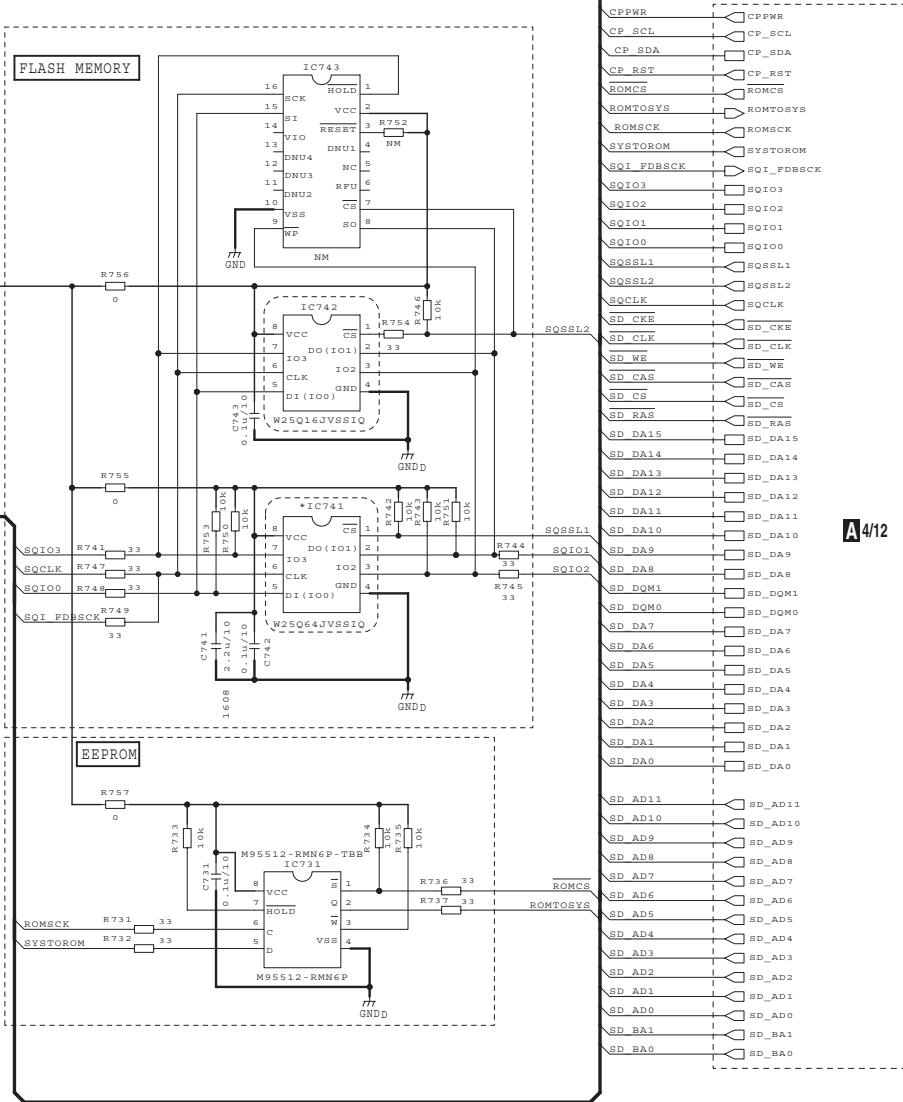


A 4/12

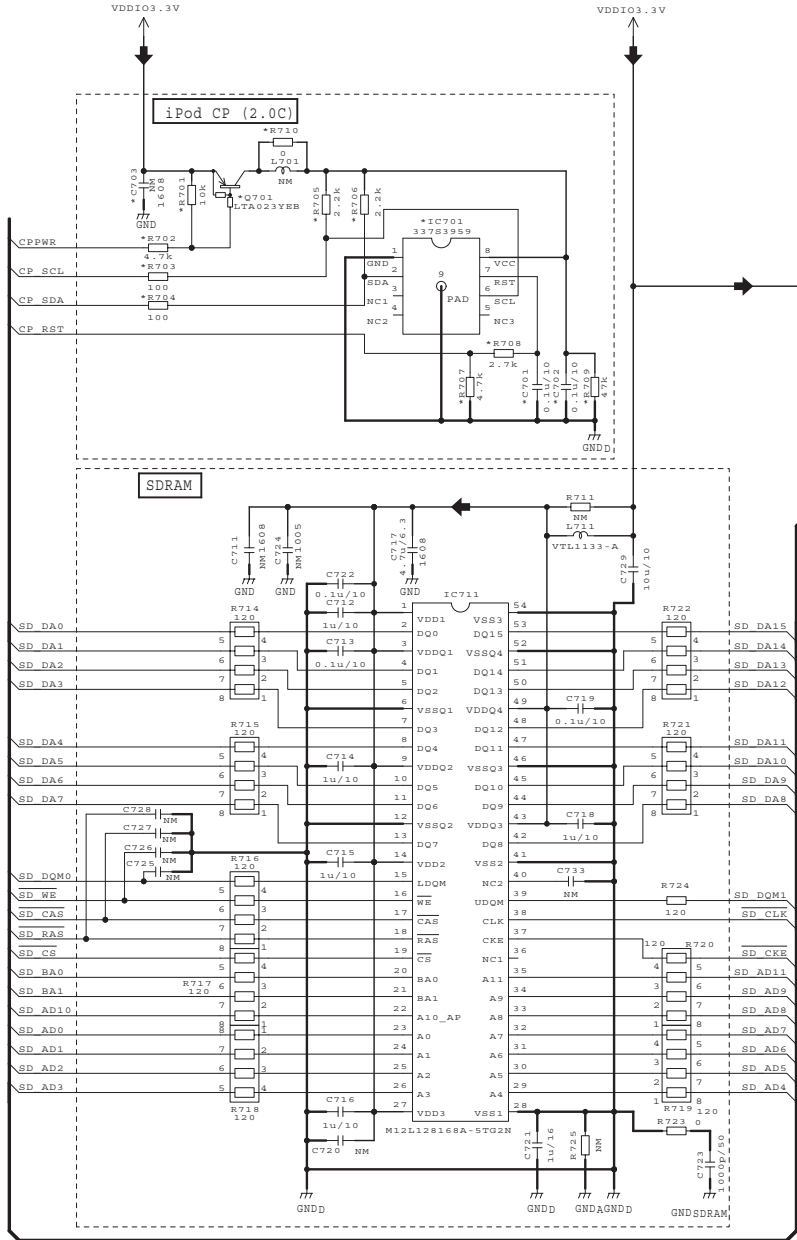
DEH-S5100BT/XNUC

A5/12 TUNER AMP UNIT (I/F iPod FLASH MEM)

A/4/12



A5/12

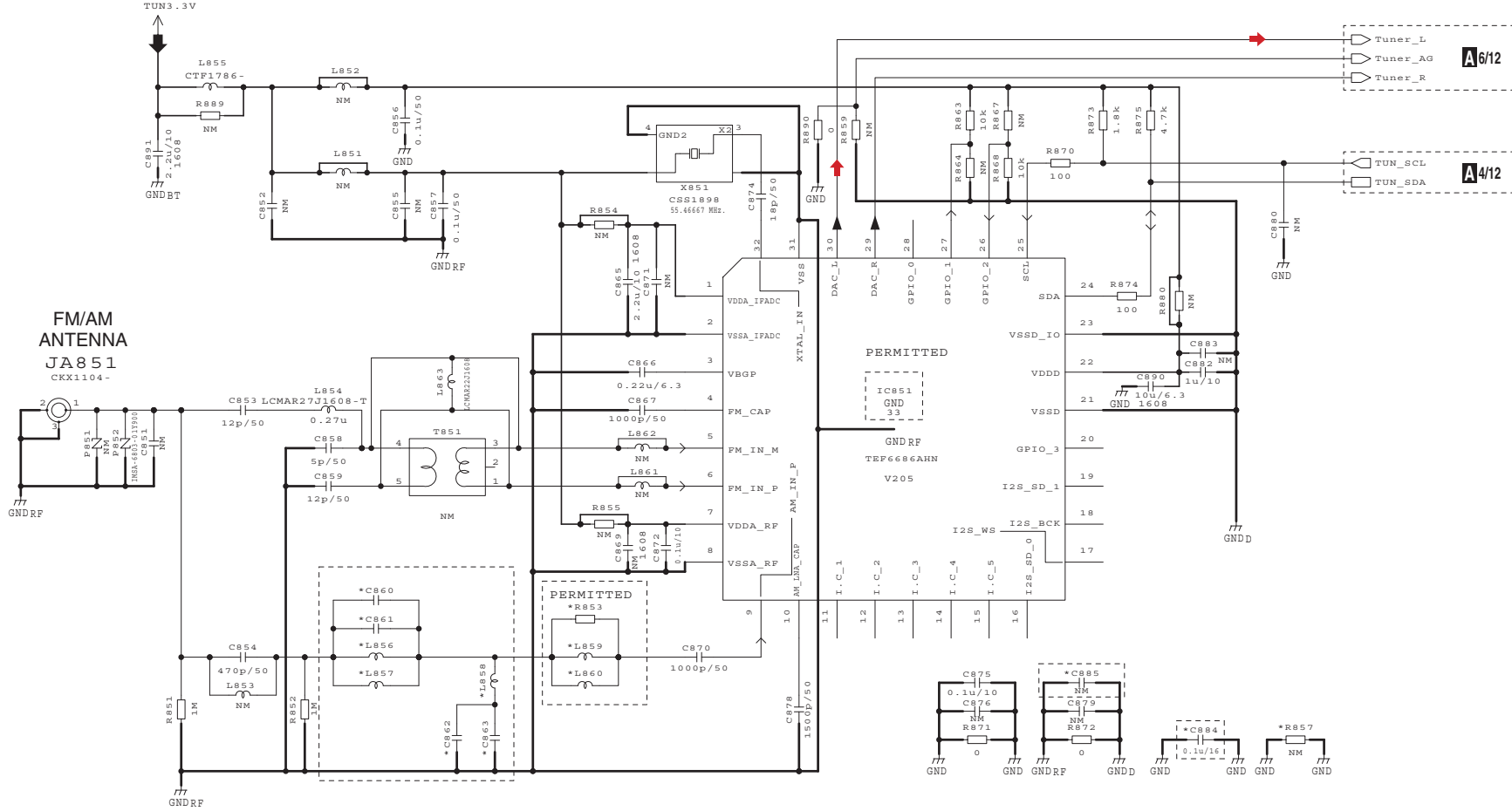


DEH-S5100BT/XNUC

A5/12



A7/12 TUNER AMP UNIT
(LITHIO)



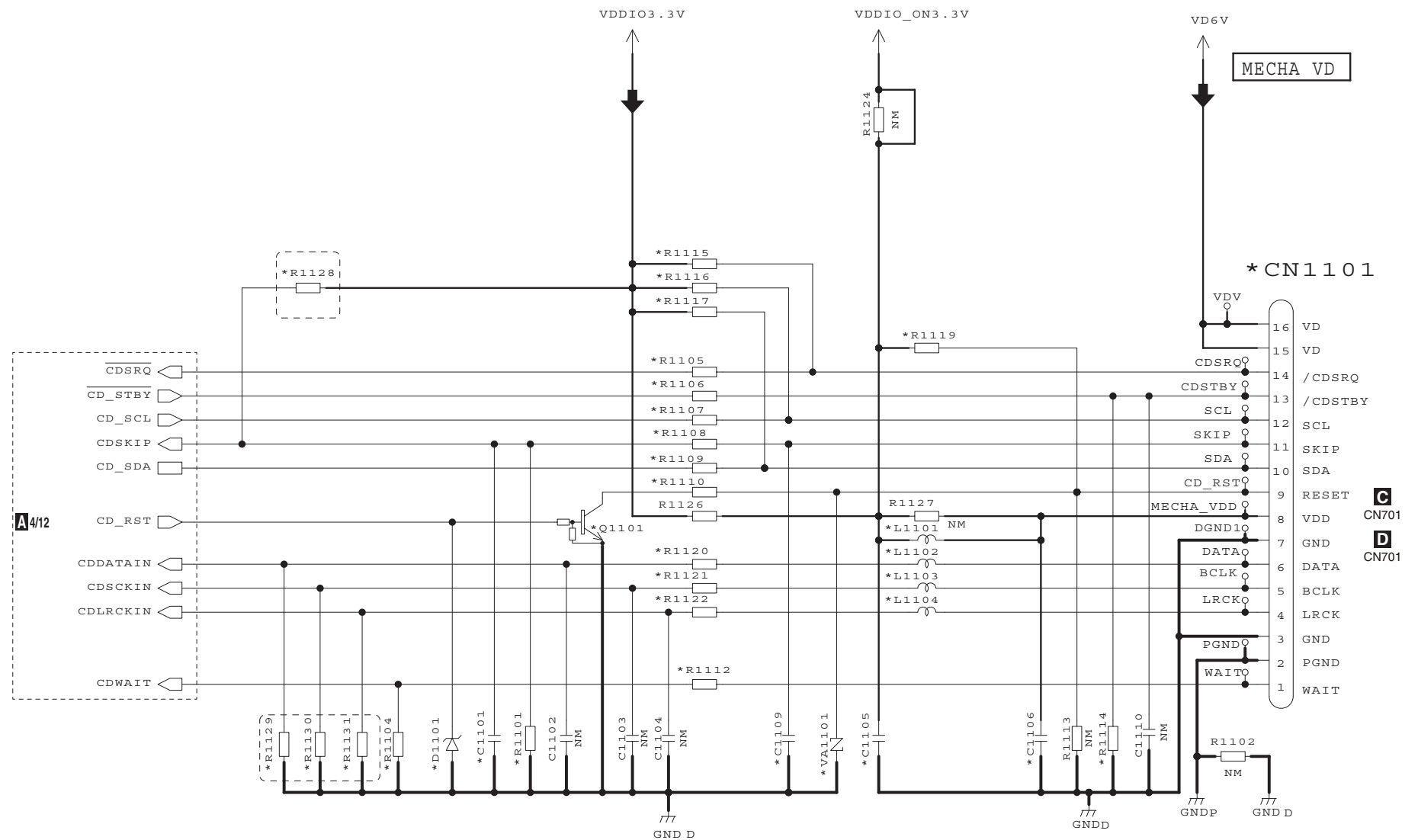
DEH-S5100BT/XNUC

FM/AM
ANTENNA
JA851
CKX1104-

8/12 TUNER AMP UNIT (BT)

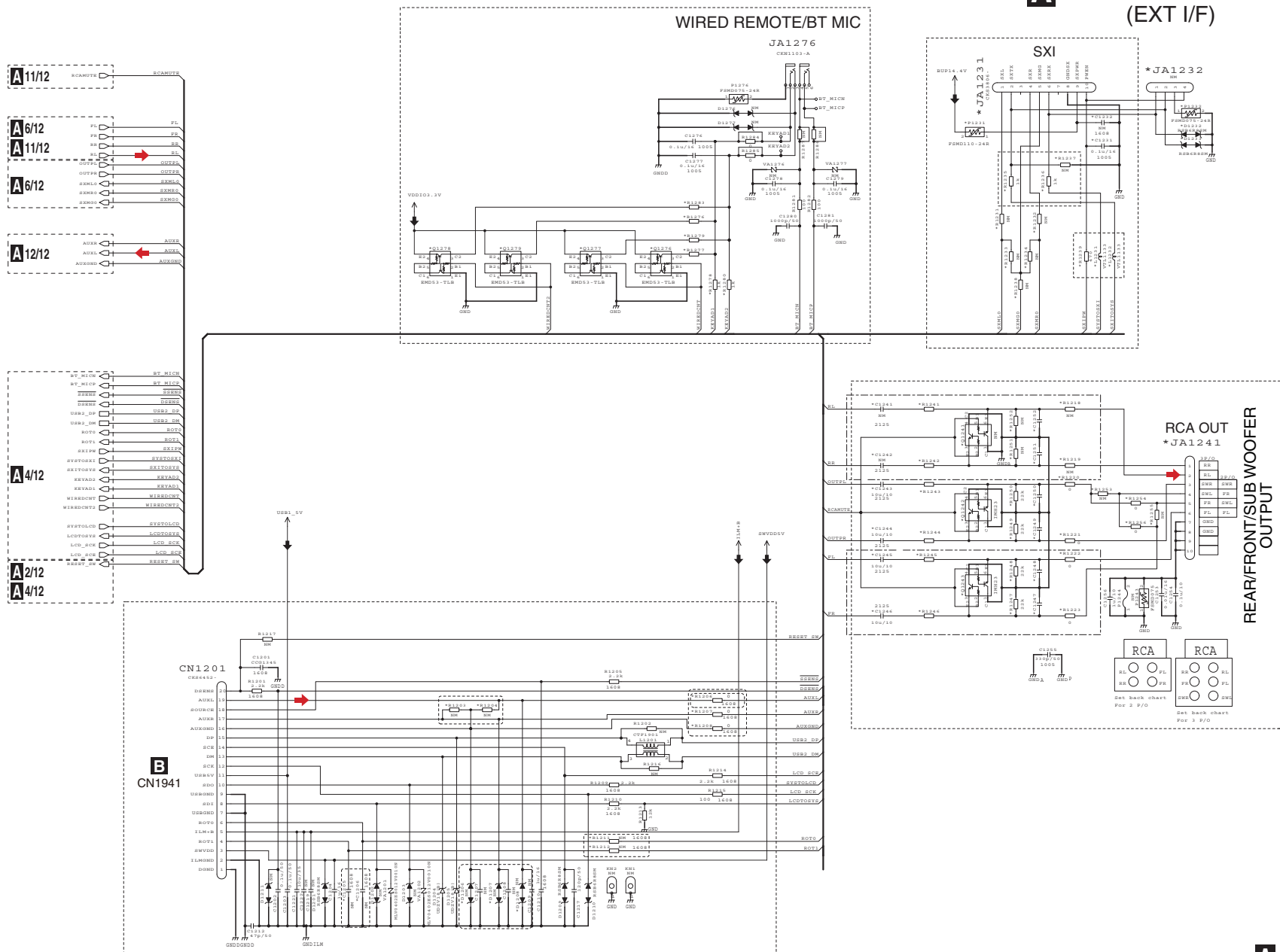


A9/12 TUNER AMP UNIT
(S11.6 I/F)



DEH-S5100BT/XNUC

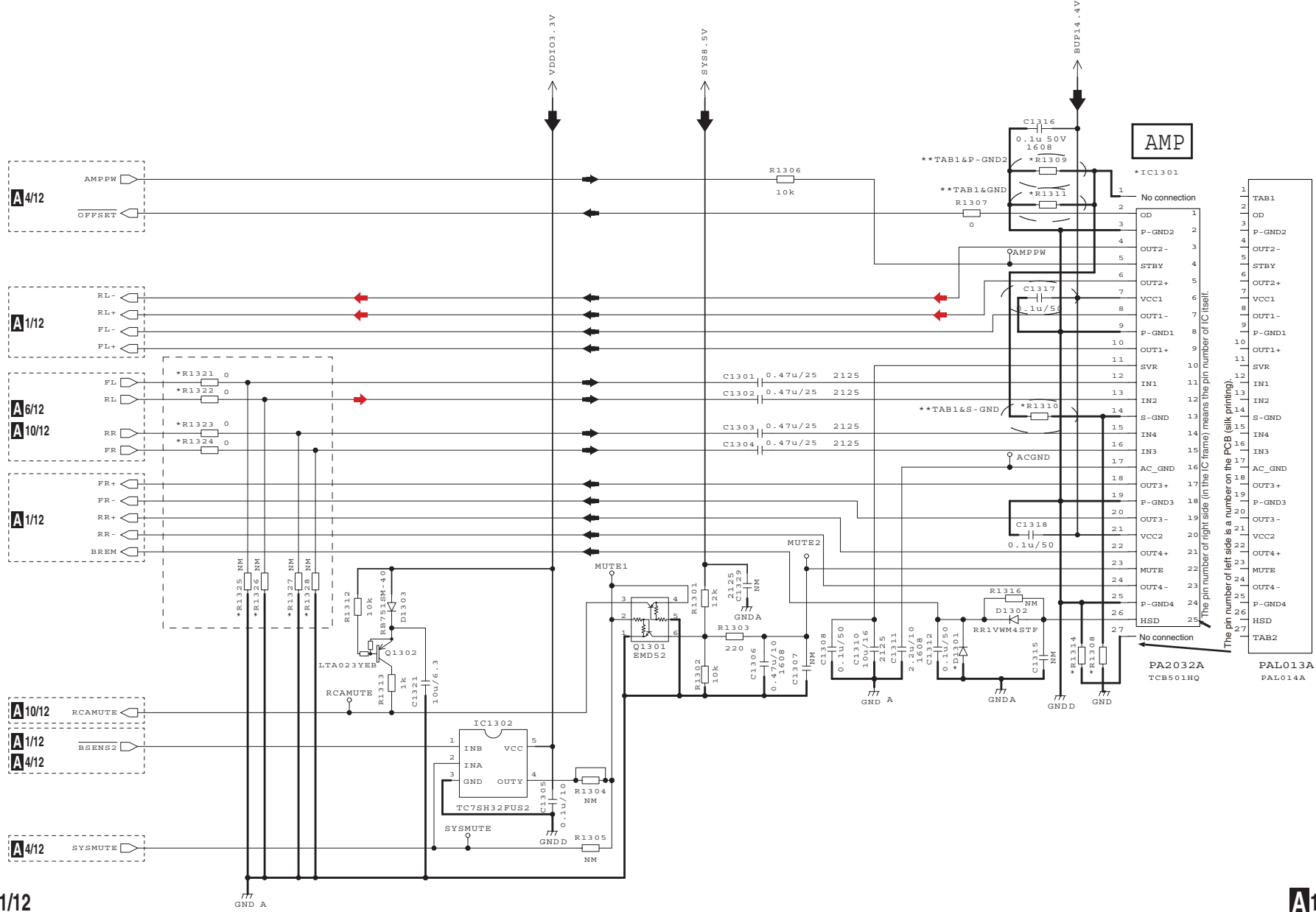
A10/12 TUNER AMP UNIT (EXT I/F)



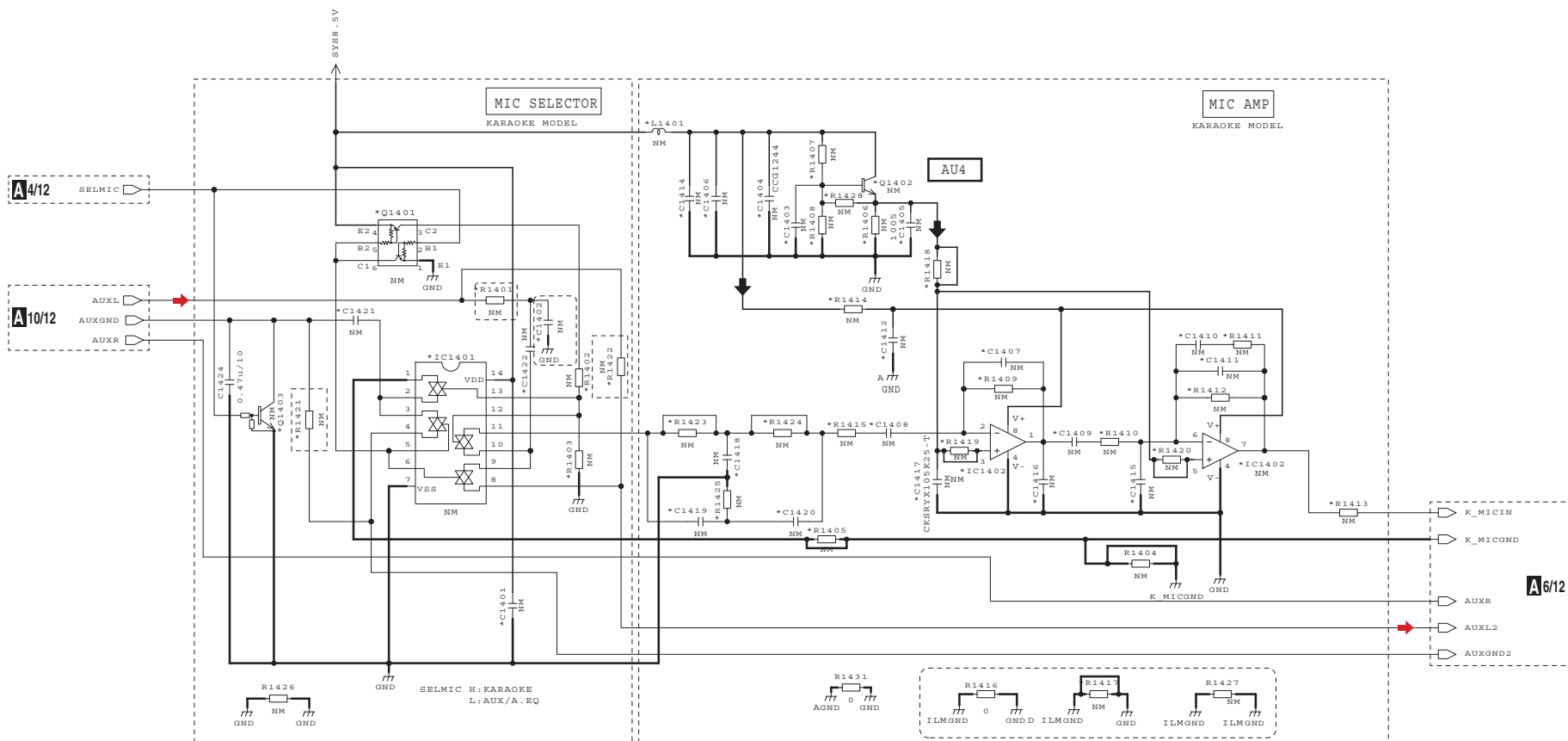
A10/12

A10/12

A11/12 TUNER AMP UNIT (PWR AMP IC)



A12/12 TUNER AMP UNIT (MIC AMP)

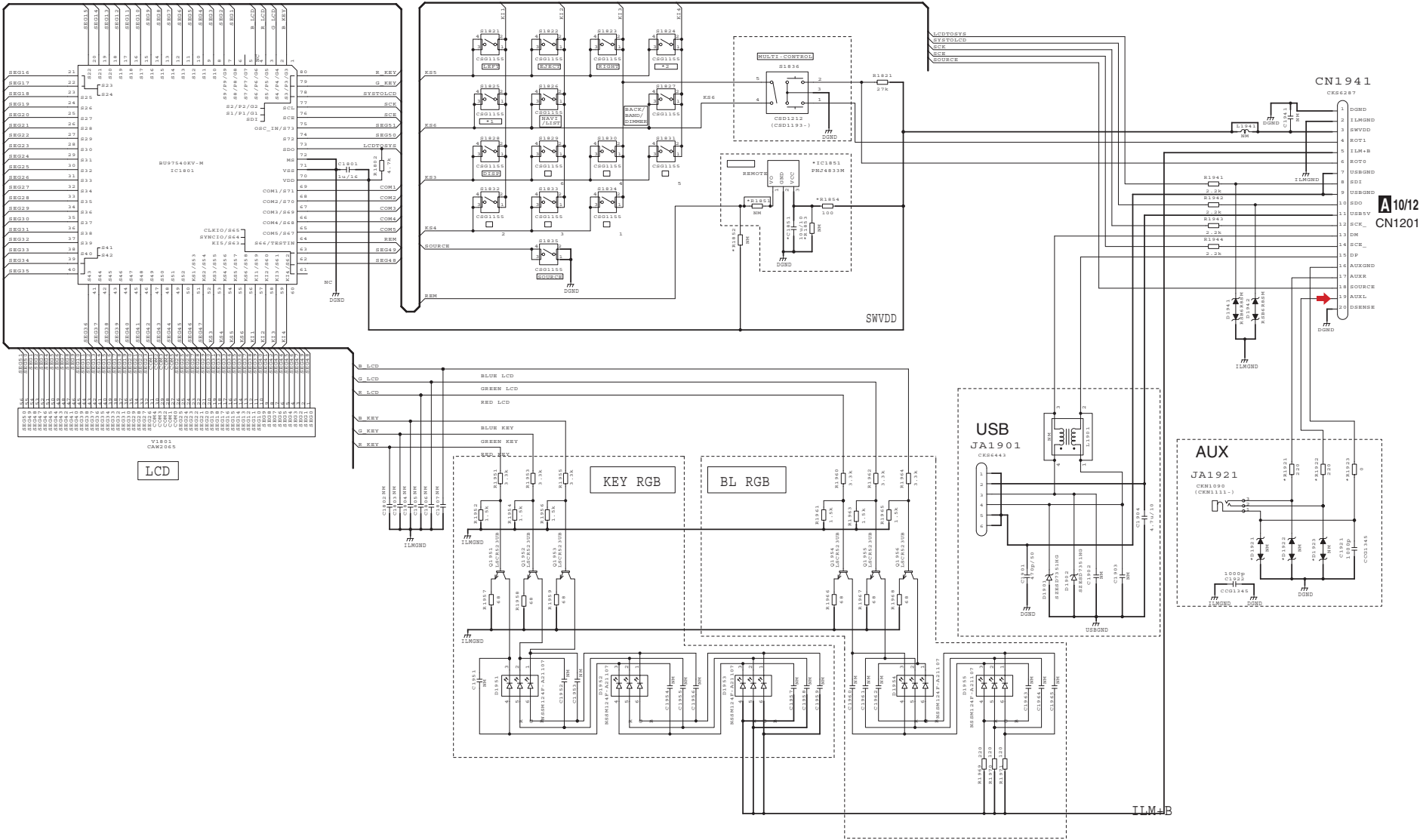


B KEYBOARD UNIT

*1	DEH-S5100BT/XNUC	BASS	
	DEH-S5120BT/XNUC	BASS	
	DEH-S510BT/XNEW5	PHONE	
	DEH-X500BT/XNCS	MIX	
	DEH-S5150BT/XNGS	BASS	
*2	DEH-S5100BT/XNUC	PHONE	
	DEH-S5120BT/XNUC	PHONE	
	DEH-S510BT/XNEW5	Not used	
	DEH-X500BT/XNCS	PHONE	
	DEH-S5150BT/XNGS	BASS	

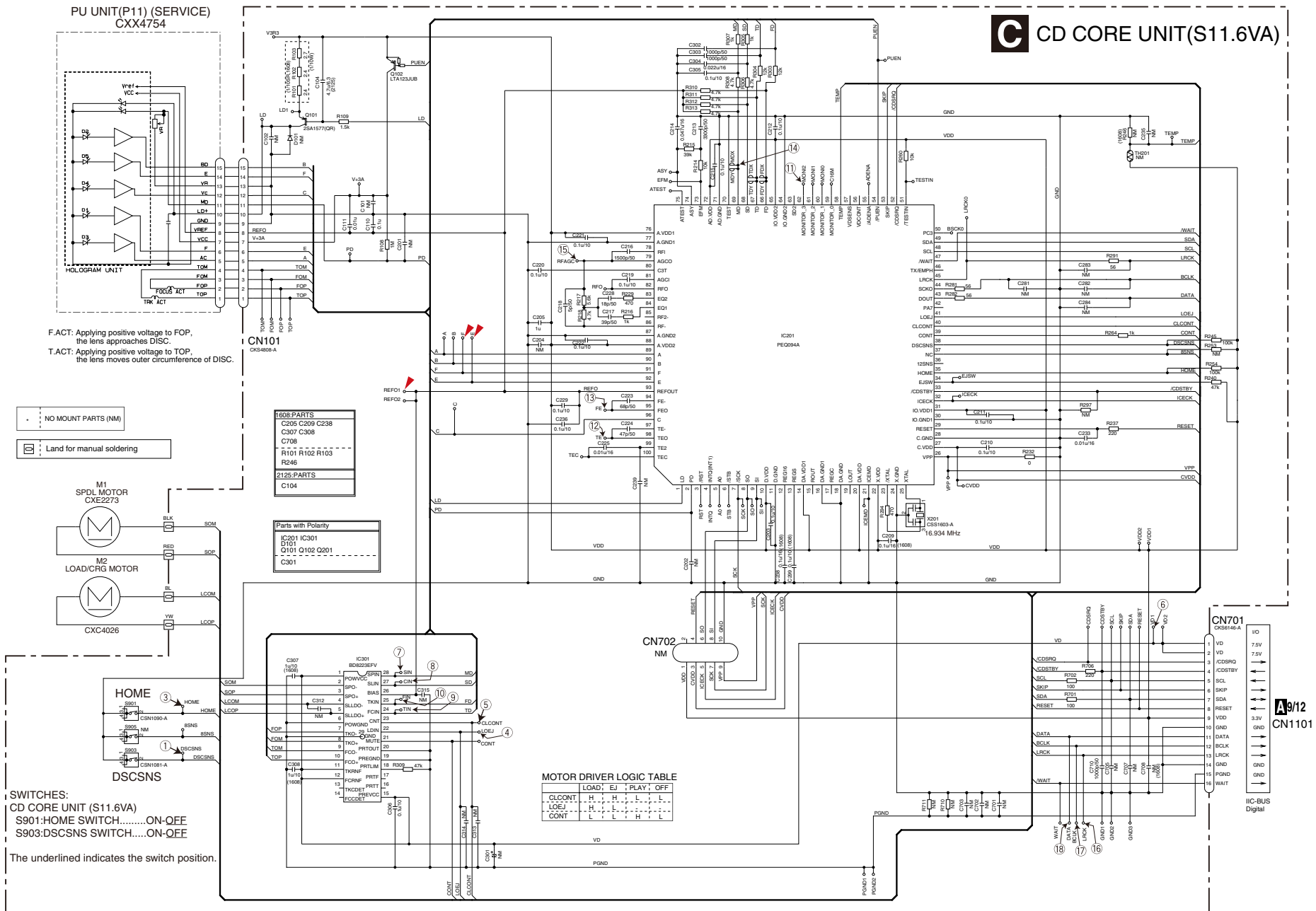
GRILLE uCOM

KEY MATRIX



DEH-S5100BT/XNUC

C CD CORE UNIT(S11.6VA)



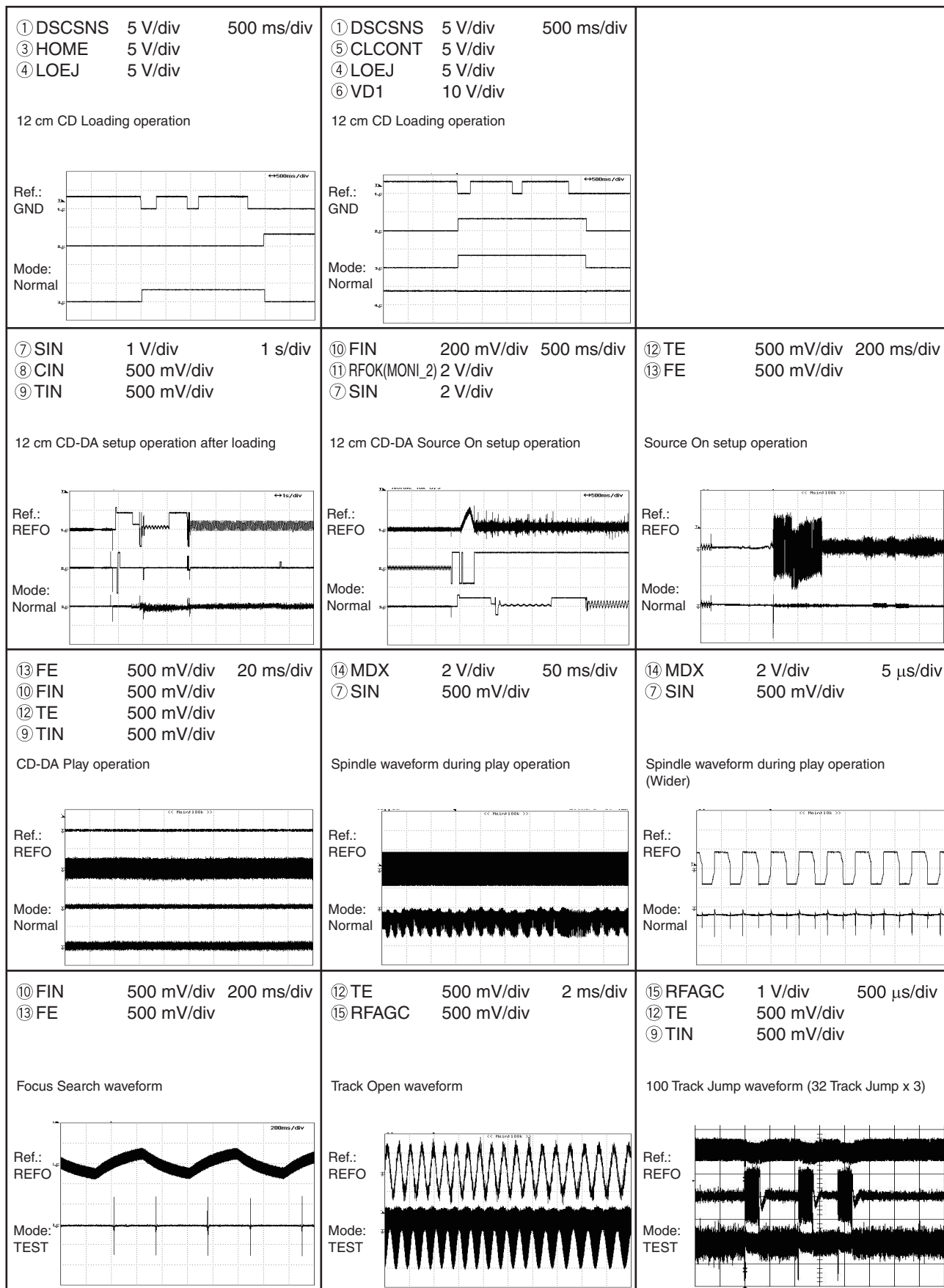
D

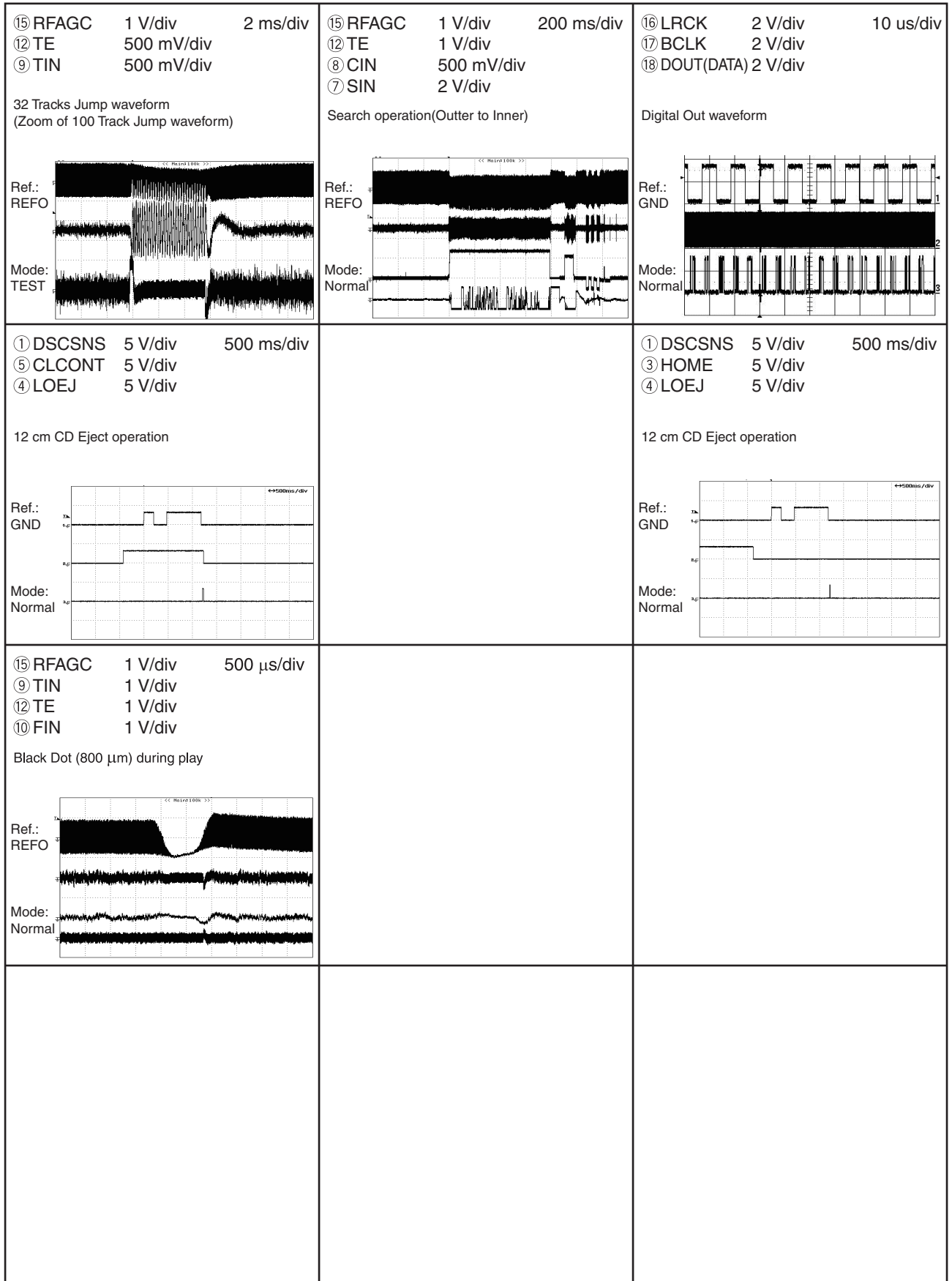


10.16 WAVEFORMS

CD CORE UNIT(S11.6)

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

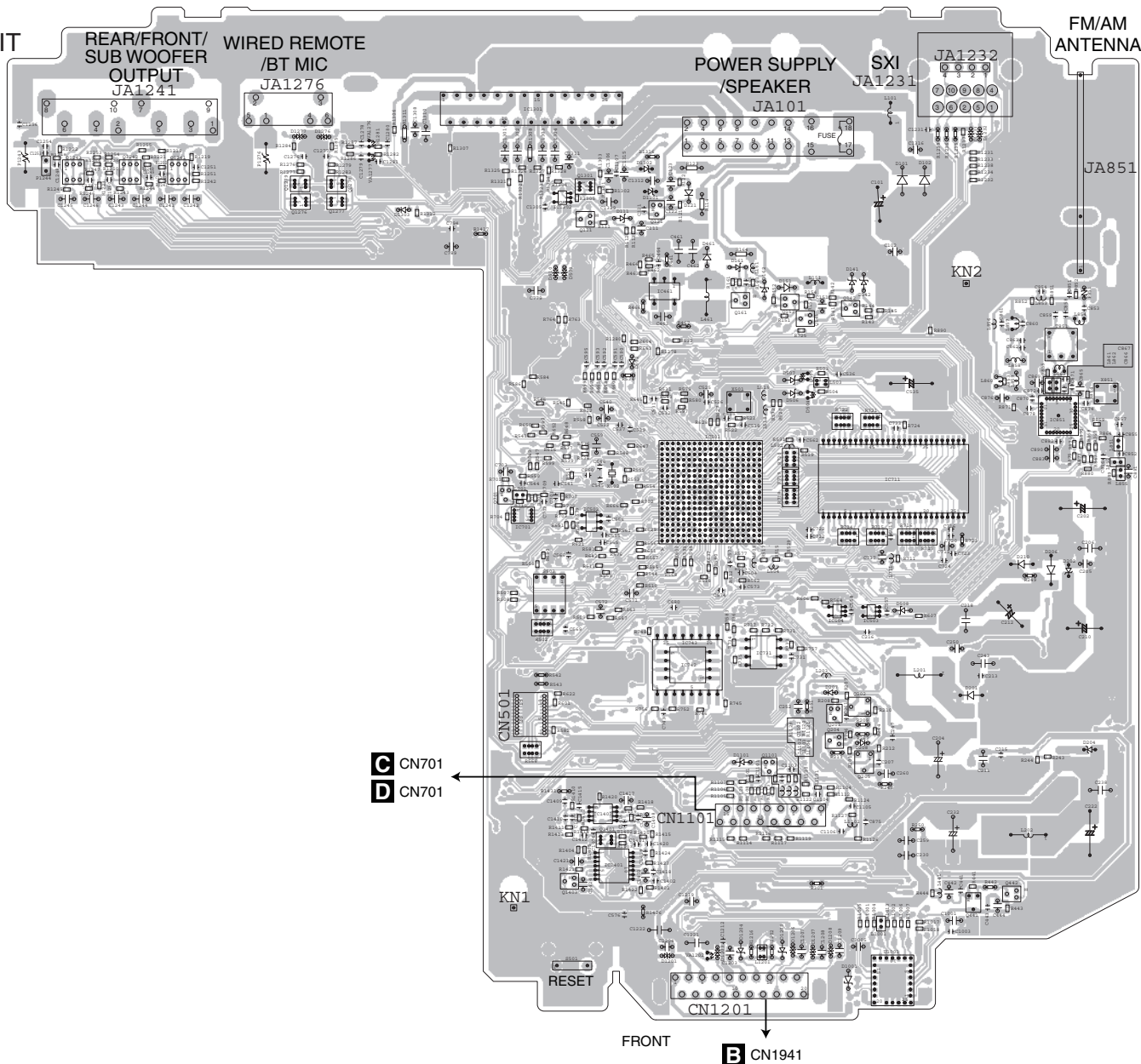




11. PCB CONNECTION DIAGRAM

11.1 TUNER AMP UNIT

SIDE A

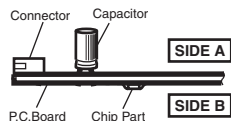


A TUNER AMP UNIT

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
D CN701

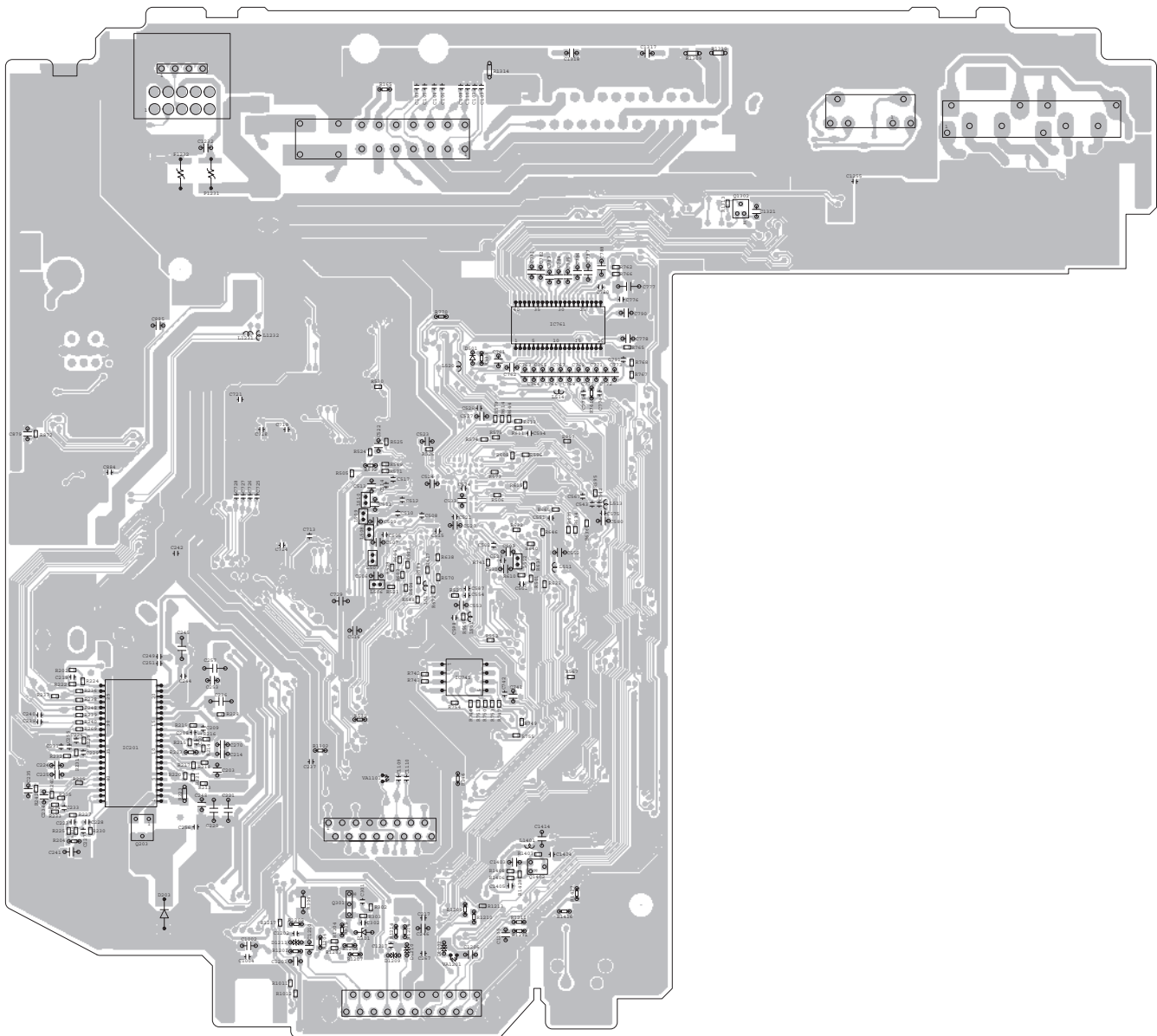
B CN1941

A

A

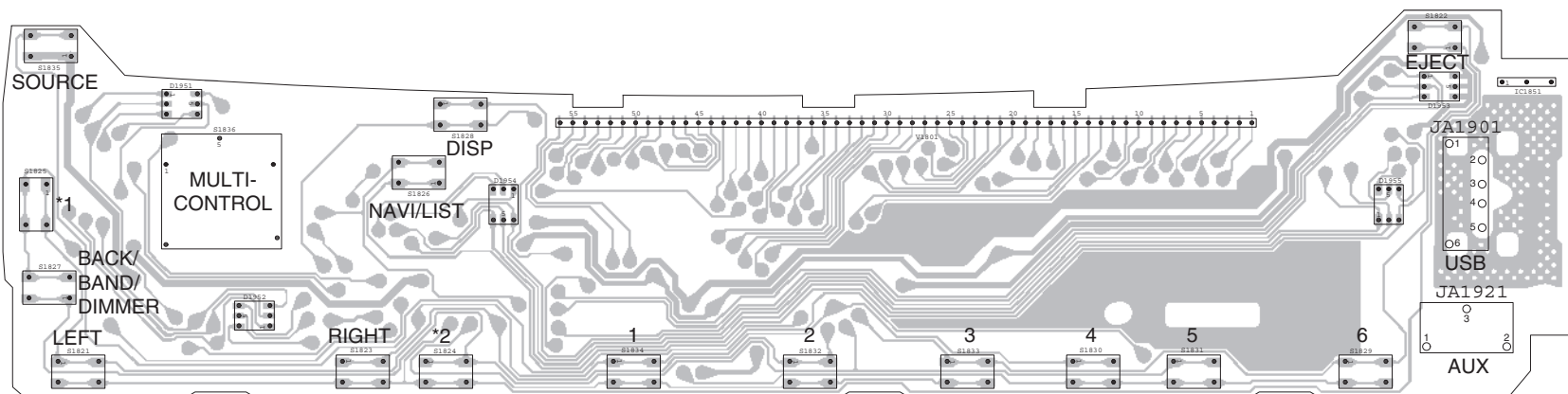
A TUNER AMP UNIT

SIDE B



DEH-S5100BT/XNUC

SIDE A



*1

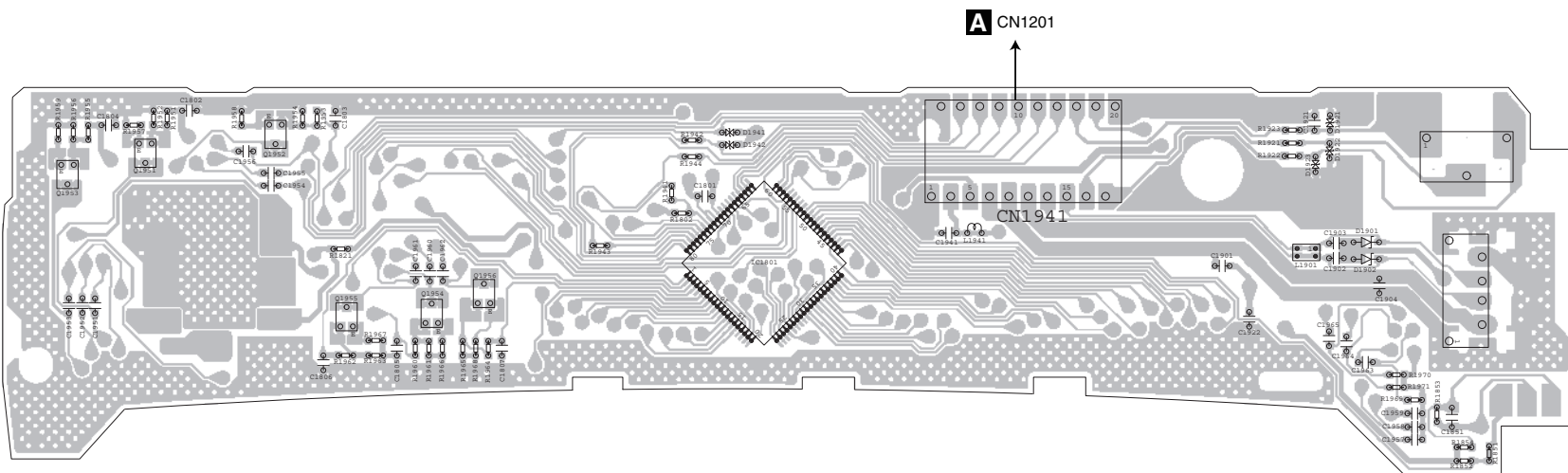
DEH-S5100BT/XNUC	BASS
DEH-S5120BT/XNUC	BASS
DEH-S510BT/XNEW5	PHONE
DEH-X500BT/XNCS	MIX
DEH-S5150BT/XNGS	BASS

*2

DEH-S5100BT/XNUC	PHONE
DEH-S5120BT/XNUC	PHONE
DEH-S510BT/XNEW5	Not used
DEH-X500BT/XNCS	PHONE
DEH-S5150BT/XNGS	BASS

B KEYBOARD UNIT

SIDE B



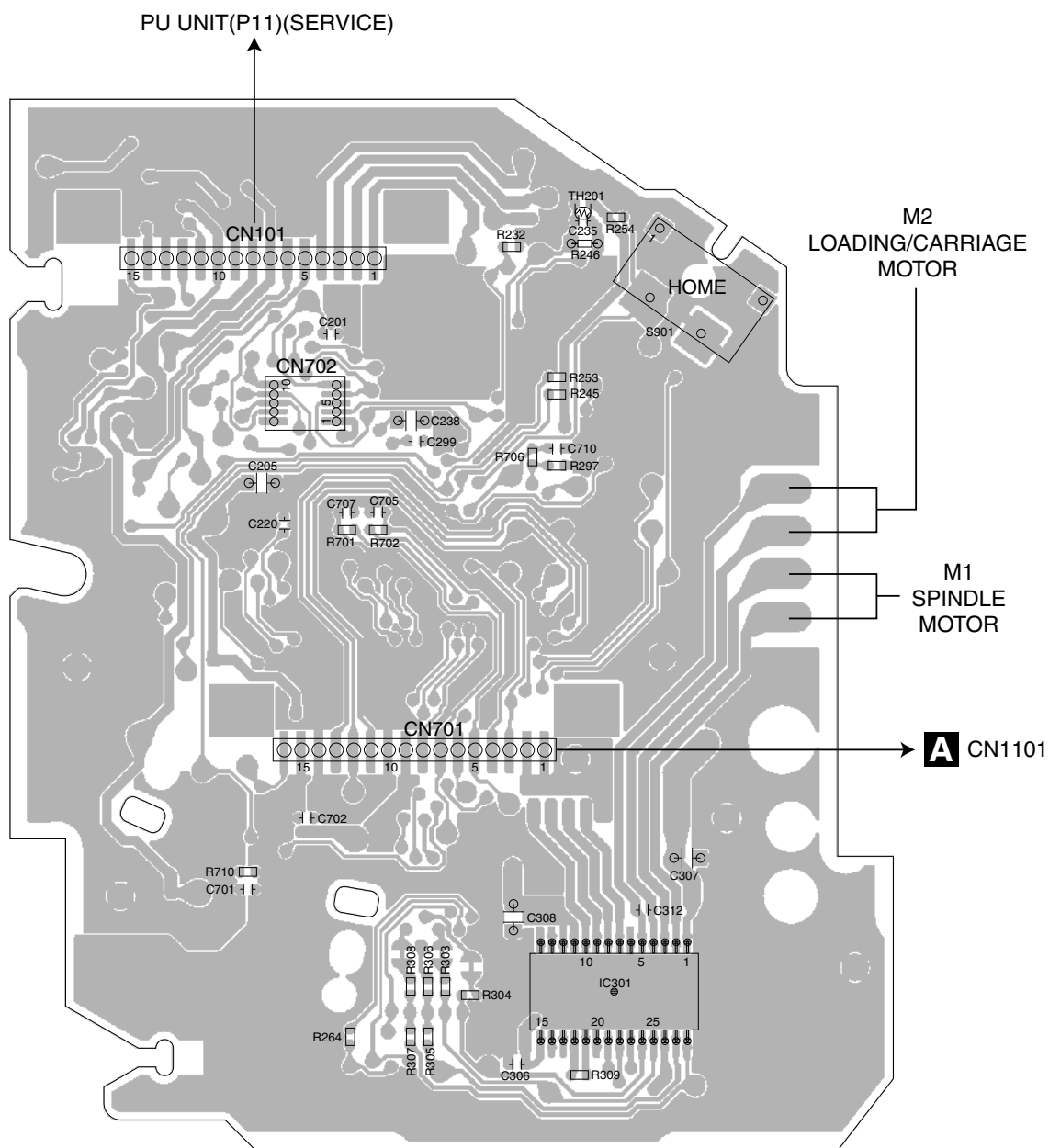
B

B

11.3 CD CORE UNIT(S11.6VA)

C CD CORE UNIT(S11.6VA)

SIDE A



C

DEH-S5100BT/XNUC

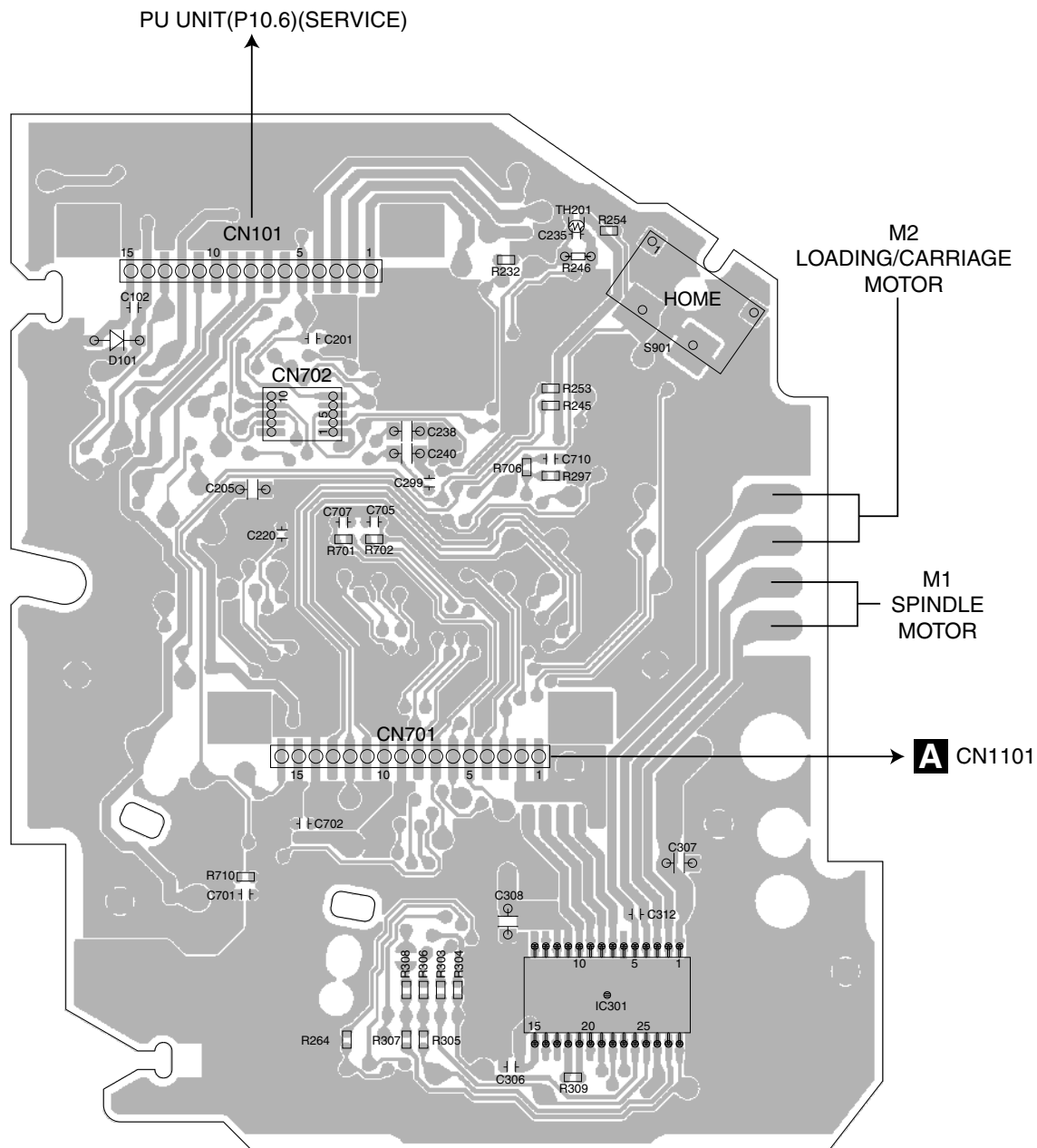
C

57

11.4 CD CORE UNIT(S11.6STD)

D CD CORE UNIT(S11.6STD)

SIDE A



D

DEH-S5100BT/XNUC

D

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/○○○○○J,RS1/○○○○○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 ⚠ 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.	Circuit Symbol and No.	Part No.
A:DEH-S5100BT/XNUC		IC 741	FlashROM Unit(A,B)
B:DEH-S5120BT/XNUC		IC 741	FlashROM Unit(C,D,E)
C:DEH-S510BT/XNEW5		IC 742	Flash Memory IC
D:DEH-X500BT/XNCS			
E:DEH-S5150BT/XNGS		IC 761	E-VOL System LSI(A,C,D,E)
		IC 761	E-VOL System LSI(B)
		IC 851	Tuner IC
		IC 1301	Power Amp IC(A,B,C,D)
		IC 1301	Power Amp IC(E)
Unit Number: QWM4914(A)			
Unit Number: QWM4915(B)		IC 1302	Logic IC
Unit Number: QWM4913(C)		IC 1401	IC(C,D,E)
Unit Number: QWM4917(D)		IC 1402	Op-amp IC(C,D,E)
Unit Number: QWM4917(E)		Q 111	Resistor Built-in Transistor
Unit Name : Tuner Amp Unit		Q 121	Resistor Built-in Transistor
Unit Number: QWM4984(A,B,D,E)			
Unit Number: QWM4985(C)		Q 141	Resistor Built-in Transistor
Unit Name : Keyboard Unit		Q 142	Resistor Built-in Transistor
Unit Number: CWX4269		Q 201	Resistor Built-in Transistor
Unit Name : CD Core Unit(11.6VA_T07)		Q 202	FET
Unit Number: CWX4023		Q 203	Power MOS FET
Unit Name : CD Core Unit(S11.6STD)			
		Q 204	Resistor Built-in Transistor
		Q 205	FET
		Q 441	Transistor
		Q 442	Resistor Built-in Transistor
		Q 701	Resistor Built-in Transistor

Notes:

For CD Core Unit, please refer to "1.4 NOTES ON REPLACING PARTS" for part distinguish.

A

Unit Number: QWM4914(A)
Unit Number: QWM4915(B)
Unit Number: QWM4913(C)
Unit Number: QWM4917(D)
Unit Number: QWM4917(E)
Unit Name : Tuner Amp Unit

MISCELLANEOUS

IC 201	Power supply IC	BD49101ARFS
IC 461	DC/DC Converter IC(B)	NJW4132U2-A
IC 501	Microprocessor IC	STA1080
IC 502	IC	S-80827CNMC-B8M
IC 701	IC	337S3959
IC 711	RAM IC	M12L128168A-5TG2N
IC 731	ROM IC	M95512-RMN6P

Q 1101	Resistor Built-in Transistor	LTC014EEB
Q 1241	Transistor(A,B,C)	IMH23
Q 1242	Transistor	IMH23
Q 1243	Transistor	IMH23
Q 1276	Bipolar Transistor(D,E)	EMD53
Q 1277	Bipolar Transistor(D,E)	EMD53
Q 1278	Bipolar Transistor(D,E)	EMD53
Q 1279	Bipolar Transistor(D,E)	EMD53
Q 1301	Transistor	EMD52
Q 1302	Resistor Built-in Transistor	LTA023YEB
Q 1401	Transistor(C,D,E)	EMD52
Q 1403	Resistor Built-in Transistor(C,D,E)	LTC014EEB
D 101	Diode	D1F60-5053
D 102	Diode	D1F60-5053
D 111	Zener Diode(A,B,D,E)	UDZV6R8(B)
D 111	Zener Diode(C)	UDZV7R5(B)
D 121	Switching Diode	1SS355VM
D 141	Zener Diode	UDZV7R5(B)
D 201	Schottky Diode	RB162MM-40TF
D 202	Rectifier Diode	RR1VWM4STF

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

D 203	Schottky Diode	RB056LAM-40TF
D 204	Rectifier Diode	RR1VWM4STF
D 206	Schottky Diode	CMS30I30A
D 207	Schottky Diode	RB751SM-40
D 208	Schottky Diode	RB751SM-40

P 1243	Poly Switch
P 1276	Poly Switch
VA1101	SMD Varistor
VA1201	SMD Varistor
VA1202	SMD Varistor

FSMD075-24R
FSMD075-24R
MLV0402ES012V0010N
MLV0402ES012V0010N
MLV0402ES012V0010N

D 210	Schottky Diode	RB162MM-40TF
D 461	Schottky Diode(B)	RB551VM-30
D 501	Schottky Diode(A,B,C)	RB751SM-40
D 502	Schottky Diode(A,B,C)	RB751SM-40
D 1001	Zener Diode	SZESD7351HG

U 1001	BT Module
CN1101	Connector
CN1201	Connector
JA 101	Plug
JA851	Antenna Jack

CWX4751
VKN1192
CKS6452
CKM1624
CKX1104

D 1101	Zener Diode	UDZV18(B)
D 1201	Zener Diode	RSB6R8SM
D 1204	Zener Diode	UDZV18(B)
D 1205	Zener Diode	UDZV18(B)
D 1206	Zener Diode	RSB6R8SM

JA 1241	RCA Jack(A,B,C)
JA 1241	RCA Jack(D,E)
JA 1276	Jack

CKB1113
CKB1109
CKN1103

RESISTORS

D 1207	Zener Diode	RSB6R8SM
D 1208	Zener Diode	RSB6R8SM
D 1209	Zener Diode	RSB6R8SM
D 1210	Zener Diode	RSB6R8SM
D 1301	Rectifier Diode(E)	RR1VWM4STF

R 111	
R 112	
R 113	(A,B,D,E)
R 113	(C)
R 114	(A,B,D,E)

XRS1/16SS223J
XRS1/16SS473J
XRS1/16SS682J
XRS1/16SS333J
RS1/4SA102J

D 1302	Rectifier Diode	RR1VWM4STF
D 1303	Schottky Diode	RB751SM-40
L 101	Choke Coil 120 uH	CTH1620
L 201	SMD SPL Inductor	CTH1521
L 202	SMD SPL Inductor	CTH1584

R 114	(C)
R 121	
R 123	
R 141	
R 142	

RS1/4SA122J
XRS1/16SS103J
RS1/4SA102J
XRS1/16SS104J
XRS1/16SS473J

L 203	Chip Beads	VTL1133
L 441	Inductor	CTF1736
L 461	SMD SPL Inductor(B)	CTH1674
L 501	Chip Beads	VTL1133
L 502	Inductor	CTF1645

R 143	
R 144	
R 145	
R 165	
R 201	

XRS1/16SS103J
XRS1/16SS472J
XRS1/16SS0R0J
XRS1/10SR0R0J
XRS1/16SS102J

L 504	Chip Beads	VTL1133
L 505	Chip Beads	VTL1133
L 511	Chip Beads	VTL1133
L 513	Chip Beads	VTL1133
L 514	Chip Beads	VTL1126

R 202	
R 203	
R 204	
R 206	
R 207	

XRS1/16SS3303D
XRS1/10SR0R0J
XRS1/10SR0R0J
XRS1/16SS472J
XRS1/16SS103J

L 517	Chip Beads	VTL1133
L 518	Chip Beads	VTL1133
L 519	Chip Beads	VTL1133
L 520	Chip Beads	VTL1133
L 711	Chip Beads	VTL1133

R 208	
R 209	
R 210	
R 211	
R 212	

XRS1/16SS473J
XRS1/10SR472J
XRS1/16SS103J
XRS1/10SR472J
XRS1/16SS103J

L 854	Inductor	LCMAR27J1608
L 855	Inductor	CTF1786
L 856	Inductor(A,B,C,D)	CTF1787
L 857	SMD SPL Inductor(E)	LCYAR82J2016
L 858	Chip Coil(E)	LCTAWR27J2520

R 213	
R 214	
R 215	
R 216	
R 217	

XRS1/16SS132J
XRS1/16SS102J
XRS1/16SS2403D
XRS1/16SS7502D
XRS1/16SS4303D

L 859	Chip Coil(E)	LCTAWR27J2520
L 860	Inductor(A,B,C,D)	LCYC150K1608
L 863	Inductor	LCMAR22J1608
L 1001	Chip Ferrite Bead	DTL1107
L 1101	Inductor	CTF1787

R 218	
R 219	
R 220	
R 221	
R 222	

XRS1/16SS4303D
XRS1/16SS273J
XRS1/16SS474J
XRS1/16SS473J
XRS1/16SS6802D

L 1102	Chip Beads	VTL1133
L 1103	Chip Beads	VTL1133
L 1104	Chip Beads	VTL1133
L 1201	Noise Filter	CTF1901
L 1401	Ferrite Bead(C,D,E)	CTF1528

R 223	0.02 ohm
R 224	
R 225	
R 226	
R 227	

CCN1401
XRS1/16SS6802D
XRS1/16SS102J
XRS1/16SS1203D
XRS1/16SS1802D

X 501	Resonator 24 MHz	CSS1773
X 502	Resonator 32.768 kHz	CSS1807
X 851	Crystal Resonator 55.46667 MHz	CSS1898
S 501	Switch(RESET)	CSG1020
P 852	Surge Absorber	IMSA-6803-01Y900

R 229	
R 230	
R 231	
R 232	

XRS1/16SS3902D
XRS1/16SS682J
XRS1/16SS4703D
XRS1/16SS1503D

5		6		7		8	
Circuit Symbol and No.		Part No.		Circuit Symbol and No.		Part No.	
R 233		XRS1/16SS1003D		R 547		XRS1/16SS473J	
				R 548		XRS1/16SS102J	
R 234		XRS1/16SS7503D					
R 235		XRS1/16SS1603D		R 550		XRS1/16SS103J	A
R 236		XRS1/16SS103J		R 551		XRS1/16SS103J	
R 238		XRS1/16SS822J		R 552		XRS1/16SS102J	
R 239		XRS1/16SS101J		R 554		XRS1/16SS222J	
				R 555		XRS1/16SS135J	
R 240		XRS1/16SS101J					
R 241		XRS1/16SS680J		R 556		XRS1/16SS101J	
R 242		XRS1/16SS4701D		R 557		XRS1/16SS101J	
R 243		XRS1/16SS393J		R 558		XRS1/16SS222J	
R 244		XRS1/16SS103J		R 559		XRS1/16SS222J	
				R 560		XRS1/16SS473J	
R 246		XRS1/10SR0R0J					
R 248		XRS1/16SS473J		R 561		XRS1/16SS103J	B
R 250		XRS1/10SR471J		R 562		XRS1/16SS472J	
R 263		XRS1/10SR103J		R 563		XRS1/16SS472J	
R 269		XRS1/16SS101J		R 564		XRS1/16SS472J	
				R 566		RAB4CQ103J	
R 301		XRS1/10SR0R0J					
R 441		XRS1/16SS103J		R 567		XRS1/16SS472J	
R 442		XRS1/10SR221J		R 568		XRS1/16SS0R0J	
R 461 (B)		XRS1/10SR0R0J		R 570		XRS1/16SS221J	
R 463 (B)		XRS1/16SS2202D		R 571		XRS1/16SS221J	
				R 572		XRS1/16SS472J	
R 464 (B)		XRS1/16SS4701D					
R 465 (B)		XRS1/16SS4303D		R 573		XRS1/16SS473J	
R 466 (B)		XRS1/10SR102J		R 574		XRS1/16SS473J	C
R 501 (B)		XRS1/16SS222J		R 575		XRS1/16SS473J	
R 503		XRS1/16SS3R3J		R 577		XRS1/16SS182J	
				R 578		XRS1/16SS473J	
R 504		XRS1/16SS3R3J					
R 505		XRS1/16SS221J		R 579		XRS1/16SS473J	
R 506		XRS1/16SS473J		R 580		XRS1/16SS473J	
R 507		XRS1/16SS473J		R 581		XRS1/16SS0R0J	
R 508		XRS1/16SS473J		R 583		XRS1/16SS0R0J	
				R 584		XRS1/16SS102J	
R 509		XRS1/16SS473J					
R 510		XRS1/16SS473J		R 585		XRS1/16SS0R0J	
R 511		XRS1/16SS473J		R 586		XRS1/16SS103J	
R 512		XRS1/16SS102J		R 587		XRS1/16SS102J	D
R 513		XRS1/16SS222J		R 588		XRS1/16SS221J	
				R 589		XRS1/16SS0R0J	
R 515		XRS1/16SS103J					
R 517		XRS1/16SS103J		R 590		XRS1/16SS221J	
R 518		XRS1/16SS472J		R 591		XRS1/16SS361J	
R 519		XRS1/16SS271J		R 593		XRS1/16SS0R0J	
R 521		XRS1/16SS473J		R 594		XRS1/16SS0R0J	
				R 596		XRS1/16SS0R0J	
R 522		XRS1/16SS0R0J					
R 524		XRS1/16SS3001D		R 597		XRS1/16SS102J	
R 525		XRS1/16SS103J		R 598		XRS1/16SS102J	
R 526		XRS1/16SS1213F		R 599		XRS1/16SS102J	
R 531		XRS1/16SS222J		R 603		XRS1/16SS101J	E
				R 604		XRS1/16SS101J	
R 532		XRS1/16SS222J					
R 533		XRS1/10SR103J		R 605		XRS1/16SS101J	
R 534		XRS1/10SR103J		R 611		XRS1/16SS472J	
R 536		XRS1/16SS472J		R 614		XRS1/16SS473J	
R 538 (A,C)		XRS1/16SS472J		R 615		XRS1/16SS103J	
				R 617		XRS1/16SS473J	
R 538 (D)		XRS1/16SS223J					
R 538 (E)		XRS1/16SS103J		R 627		XRS1/16SS153J	
R 539 (B,E)		XRS1/16SS473J		R 628		XRS1/16SS153J	
R 540		XRS1/16SS103J		R 629		XRS1/16SS472J	
R 541		XRS1/16SS103J		R 630		XRS1/16SS101J	
				R 631		XRS1/16SS0R0J	F
R 544		XRS1/16SS102J					
R 545		XRS1/16SS473J		R 632		XRS1/16SS101J	
R 546		XRS1/16SS273J		R 633		XRS1/16SS101J	

	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
A	R 634	XRS1/16SS101J	R 745	XRS1/16SS330J
	R 635	XRS1/16SS101J	R 746	XRS1/16SS103J
	R 636	XRS1/16SS101J	R 747	XRS1/16SS330J
			R 748	XRS1/16SS330J
	R 637	XRS1/16SS221J		
	R 638	XRS1/16SS221J	R 749	XRS1/16SS330J
	R 639	XRS1/16SS101J	R 750	XRS1/16SS103J
	R 640	XRS1/16SS101J	R 751	XRS1/16SS103J
	R 642	XRS1/16SS221J	R 753	XRS1/16SS103J
			R 754	XRS1/16SS330J
	R 643	XRS1/16SS101J		
	R 644	XRS1/16SS473J	R 755	XRS1/16SS0R0J
	R 645	XRS1/16SS101J	R 756	XRS1/16SS0R0J
	R 646	XRS1/16SS101J	R 757	XRS1/16SS0R0J
B	R 647	XRS1/16SS102J	R 761	XRS1/10SR221J
			R 762	XRS1/16SS0R0J
	R 648	XRS1/16SS102J		
	R 650	XRS1/16SS101J	R 763	XRS1/16SS101J
	R 651	XRS1/16SS102J	R 764	XRS1/16SS101J
	R 652	XRS1/16SS101J	R 765	XRS1/16SS222J
	R 653	XRS1/16SS0R0J	R 766	XRS1/16SS0R0J
			R 767	XRS1/16SS104J
	R 657	XRS1/16SS101J		
	R 658	XRS1/16SS101J	R 768	XRS1/16SS181J
	R 659	XRS1/16SS101J	R 851	XRS1/16SS105J
	R 660	XRS1/16SS101J	R 852	XRS1/16SS105J
C	R 661	XRS1/16SS101J	R 853	XRS1/16SS391J
			R 853	XRS1/16SS101J
	R 663	XRS1/16SS101J		
	R 664	XRS1/16SS101J	R 857	XRS1/16SS0R0J
	R 672	XRS1/16SS101J	R 863	XRS1/16SS103J
	R 690	XRS1/16SS472J	R 868	XRS1/16SS103J
	R 701	XRS1/16SS103J	R 870	XRS1/16SS101J
			R 871	XRS1/16SS0R0J
	R 702	XRS1/16SS472J		
	R 703	XRS1/16SS101J	R 872	XRS1/16SS0R0J
	R 704	XRS1/16SS101J	R 873	XRS1/16SS182J
	R 705	XRS1/16SS222J	R 874	XRS1/16SS101J
	R 706	XRS1/16SS222J	R 875	XRS1/16SS472J
			R 890	XRS1/16SS0R0J
D	R 707	XRS1/16SS472J		
	R 708	XRS1/16SS272J	R 1001	XRS1/16SS0R0J
	R 709	XRS1/16SS473J	R 1002	XRS1/16SS221J
	R 710	XRS1/16SS0R0J	R 1004	XRS1/16SS473J
	R 714	RAB4CQ121J	R 1005	XRS1/16SS221J
			R 1006	XRS1/16SS0R0J
	R 715	RAB4CQ121J		
	R 716	RAB4CQ121J	R 1007	XRS1/16SS0R0J
	R 717	RAB4CQ121J	R 1011	XRS1/16SS221J
	R 718	RAB4CQ121J	R 1012	XRS1/16SS221J
	R 719	RAB4CQ121J	R 1013	XRS1/16SS0R0J
			R 1017	XRS1/16SS473J
E	R 720	RAB4CQ121J		
	R 721	RAB4CQ121J	R 1018	XRS1/16SS473J
	R 722	RAB4CQ121J	R 1101	XRS1/16SS104J
	R 723	XRS1/10SR0R0J	R 1104	XRS1/16SS472J
	R 724	XRS1/16SS121J	R 1105	XRS1/16SS221J
			R 1106	XRS1/16SS221J
	R 731	XRS1/16SS330J		
	R 732	XRS1/16SS330J	R 1107	XRS1/16SS101J
	R 733	XRS1/16SS103J	R 1108	XRS1/16SS221J
	R 734	XRS1/16SS103J	R 1109	XRS1/16SS101J
	R 735	XRS1/16SS103J	R 1110	XRS1/16SS102J
			R 1112	XRS1/16SS221J
F	R 736	XRS1/16SS330J		
	R 737	XRS1/16SS330J	R 1114	XRS1/16SS473J
	R 741	XRS1/16SS330J	R 1115	XRS1/16SS472J
	R 742	XRS1/16SS103J	R 1116	XRS1/16SS472J
	R 743	XRS1/16SS103J	R 1117	XRS1/16SS472J
			R 1119	XRS1/16SS473J
	R 744	XRS1/16SS330J		

5		6		7		8	
Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.		
R 1120		XRS1/16SS151J	R 1308	(A,B,C,D)	RS1/8SQ0R0J	A	
R 1121		XRS1/16SS151J	R 1309	(A,B,C,D)	RS1/8SQ0R0J		
R 1122		XRS1/16SS151J	R 1310	(E)	RS1/8SQ0R0J		
R 1201		XRS1/10SR222J	R 1311	(E)	RS1/8SQ0R0J		
R 1203		XRS1/16SS223J	R 1312		XRS1/16SS103J		
R 1204		XRS1/16SS223J	R 1313		XRS1/16SS102J		
R 1205		XRS1/10SR222J	R 1321	(A,C,D,E)	XRS1/16SS0R0J		
R 1206		XRS1/10SR0R0J	R 1321	(B)	XRS1/16SS432J		
R 1207		XRS1/10SR0R0J	R 1322	(A,C,D,E)	XRS1/16SS0R0J		
R 1208		XRS1/10SR0R0J	R 1322	(B)	XRS1/16SS432J		
R 1209		XRS1/10SR222J	R 1323	(A,C,D,E)	XRS1/16SS0R0J	B	
R 1210		XRS1/10SR222J	R 1323	(B)	XRS1/16SS432J		
R 1211		XRS1/10SR222J	R 1324	(A,C,D,E)	XRS1/16SS0R0J		
R 1212		XRS1/10SR222J	R 1324	(B)	XRS1/16SS432J		
R 1213		XRS1/16SS123J	R 1325	(B)	XRS1/16SS272J		
R 1214		XRS1/10SR222J	R 1326	(B)	XRS1/16SS272J		
R 1215		XRS1/10SR101J	R 1327	(B)	XRS1/16SS272J		
R 1218	(A,B,C)	XRS1/16SS0R0J	R 1328	(B)	XRS1/16SS272J		
R 1219	(A,B,C)	XRS1/16SS0R0J	R 1401	(C,D,E)	XRS1/16SS221J		
R 1220		XRS1/16SS0R0J	R 1402	(C,D,E)	XRS1/16SS102J		
R 1221		XRS1/16SS0R0J	R 1403	(C,D,E)	XRS1/16SS103J	C	
R 1222		XRS1/16SS0R0J	R 1407	(C,D,E)	XRS1/16SS272J		
R 1223		XRS1/16SS0R0J	R 1408	(C,D,E)	XRS1/16SS332J		
R 1241	(A,C)	XRS1/16SS821J	R 1409	(C,D,E)	XRS1/16SS333J		
R 1241	(B)	XRS1/16SS470J	R 1410	(C,D,E)	XRS1/16SS163J		
R 1242	(A,C)	XRS1/16SS821J	R 1411	(C,D,E)	XRS1/16SS824J		
R 1242	(B)	XRS1/16SS470J	R 1412	(C,D,E)	XRS1/16SS563J		
R 1243	(A,C,D,E)	XRS1/16SS821J	R 1413	(C,D,E)	XRS1/16SS0R0J		
R 1243	(B)	XRS1/16SS470J	R 1414	(C,D,E)	XRS1/16SS0R0J		
R 1244	(A,C,D,E)	XRS1/16SS821J	R 1415	(C,D,E)	XRS1/16SS273J		
R 1244	(B)	XRS1/16SS470J	R 1416		XRS1/10SR0R0J	D	
R 1245	(A,C,D,E)	XRS1/16SS821J	R 1421	(A,B)	XRS1/16SS0R0J		
R 1245	(B)	XRS1/16SS470J	R 1422	(A,B)	XRS1/16SS0R0J		
R 1246	(A,C,D,E)	XRS1/16SS821J	R 1428	(C,D,E)	XRS1/16SS0R0J		
R 1246	(B)	XRS1/16SS470J	R 1431		XRS1/10SR0R0J		
R 1247		XRS1/16SS223J	CAPACITORS				
R 1248		XRS1/16SS223J	C 101	2 200 uF/16V	CCH1659		
R 1249		XRS1/16SS223J	C 102		CKSRYB103K50		
R 1250		XRS1/16SS223J	C 103		CKSSYB102K50		
R 1251	(A,B,C)	XRS1/16SS223J	C 104		CKSSYB102K50		
R 1251		XRS1/16SS223J	C 105		CKSSYB102K50	E	
R 1252	(A,B,C)	XRS1/16SS223J	C 106		CKSSYB102K50		
R 1253	(A,B,C)	XRS1/16SS0R0J	C 107		CKSSYB102K50		
R 1254	(D,E)	XRS1/16SS0R0J	C 108		CKSSYB102K50		
R 1255	(A,B,C)	XRS1/16SS0R0J	C 109		CKSSYB102K50		
R 1256	(D,E)	XRS1/16SS0R0J	C 110		CKSSYB102K50		
R 1276	(D,E)	XRS1/16SS8201D	C 111		CKSRYX104K50		
R 1277	(D,E)	XRS1/16SS6800D	C 121		CKSSYB104K16		
R 1278	(A,B,C)	XRS1/16SS102J	C 122		CKSRYX105K50		
R 1278	(D,E)	XRS1/16SS1001D	C 201		CKSSYB681K50		
R 1279	(D,E)	XRS1/16SS6800D	C 202		CEVW221M16	F	
R 1280	(A,B,C)	XRS1/16SS102J	C 203		CKSRYX106M6R3		
R 1280	(D,E)	XRS1/16SS1001D	C 204		CEVQW221M6R3		
R 1281		XRS1/16SS101J	C 205		CKSRYX105K50		
R 1282		XRS1/16SS101J	C 206		CKSYX106K35		
R 1283	(D,E)	XRS1/16SS8201D	C 207		CKSSYB104K10		
R 1301		XRS1/16SS123J	C 208		CCSSCH471J50		
R 1302		XRS1/16SS103J	C 209		CKSSYB681K50		
R 1303		XRS1/16SS221J					
R 1306		XRS1/16SS103J					
R 1307		XRS1/16SS0R0J					

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

A	C 210	2 200 uF/16V	CCH1659	C 509	CKSRYX475K6R3
	C 211		CKSQYX106K10	C 510	CKSSYB104K10
	C 212		CEAT102M16	C 511	CKSRYX475K6R3
				C 512	CKSSYB104K10
	C 213		CKSSYB222K50		
	C 214		CKSRYX106M6R3	C 513	CKSRYX475K6R3
	C 215		CKSSYB104K16	C 514	CKSSYB104K10
	C 216		CKSSYX104K50	C 515	CKSSYX105K10
	C 218		CKSYX106K35	C 516	CKSRYX225K16
				C 517	CKSSYB104K10
	C 220		CKSYX106K35		
	C 221		CKSYX106K35	C 518	CCSSCH100D50
	C 222		CEVW221M16	C 519	CCSSCH100D50
	C 223		CCSSCH221J50	C 520	CKSRYX475K6R3
	C 224		CKSRYX105K16	C 521	CKSSYB104K10
				C 522	CKSRYX475K6R3
B	C 225		CKSRYX105K16		
	C 227		CCSSCH221J50	C 523	CKSRYX475K6R3
	C 228		CKSSYB102K50	C 524	CKSRYX475K6R3
	C 230		CKSQYX106K10	C 525	CKSRYX106M6R3
	C 231		CKSSYB104K16	C 526	CKSSYB103K16
				C 527	CKSRYX106M6R3
	C 232		CEHVW101M6R3		
	C 234		CKSRYX475K6R3	C 528	CKSSYB103K16
	C 236		CKSYX106K35	C 529	CKSSYB104K10
	C 237		CKSSYB104K16	C 530	CKSRYX475K6R3
	C 238		CKSYX226M16	C 531	CKSSYX105K10
				C 532	CKSSYX105K10
C	C 239		CCSSCH100D50		
	C 240		CCSSCH100D50	C 533	CKSRYX475K6R3
	C 241		CKSQYX106K10	C 534	CKSSYB104K10
	C 242		CKSSYB104K16	C 535	CEVW221M10
	C 243		CKSYX106K35	C 536	CCSSCH101J50
				C 537	CKSSYB103K16
	C 244		CKSSYB102K50		
	C 245		CKSYX106K35	C 538	CKSRYX106M6R3
	C 246		CKSRYX104K50	C 539	CKSSYB103K16
	C 247		CKSSYX105K10	C 540	CKSRYX106M6R3
	C 248		CKSRYX105K50	C 541	CKSSYB222K50
				C 542	CKSSYB104K10
	C 249		CCSSCH820J50		
	C 250		CKSRYX225K10	C 543	CKSSYX105K10
	C 251		CKSSYX105K10	C 544	CKSSYB473K16
	C 252		CKSRYX475K6R3	C 545	CCSSCH100D50
D	C 253		CKSRYX105K50	C 546	CCSSCH120J50
				C 551	CKSSYB104K10
	C 255		CKSSYX105K6R3		
	C 257		CKSYX106K35	C 552	CKSRYX475K6R3
	C 259		CKSQYX106K10	C 553	CKSRYX106M6R3
	C 260		CKSQYX106K10	C 555	CKSSYB103K16
	C 261		CKSSYB104K10	C 556	CKSSYB104K10
				C 559	CKSQYB224K50
	C 267		CKSSYB104K16		
	C 270		CKSRYX475K6R3	C 560	CKSSYB103K16
	C 441		CCSSCH101J50	C 565	CCSSCH270J50
	C 442		CKSRYX106M6R3	C 566	CCSSCH330J50
E	C 443		CCSSCH101J50	C 575	CKSSYB104K10
				C 576	CKSSYB102K50
	C 444		CKSRYX106M6R3		
	C 461 (B)		CKSYX106K35	C 580	CKSRYX104K50
	C 462 (B)		CKSYX106K35	C 588	CKSSYB104K10
	C 463 (B)		CKSQYX106K16	C 590	CKSSYB472K25
	C 464 (B)		CKSSYB221K50	C 591	CKSSYB472K25
				C 592	CKSSYB472K25
	C 502		CKSSYB104K10		
	C 503		CKSRYX475K6R3	C 593	CKSSYB472K25
	C 505		CKSSYB104K10	C 595	CKSSYB472K25
	C 506		CKSRYX475K6R3	C 701	CKSSYB104K10
F	C 507		CKSRYX475K6R3	C 702	CKSSYB104K10
				C 712	CKSSYX105K10
	C 508		CKSSYB104K10		

5		6		7		8	
Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.		
C 713		CKSSYB104K10					
C 714		CKSSYX105K10	C 882		CKSSYX105K10		
C 715		CKSSYX105K10	C 884	(A,C,D,E)	CKSSYB104K16		
C 716		CKSSYX105K10	C 885	(A,B,C,D)	CKSRYB103K50		A
C 717		CKSRYX475K6R3	C 890		CKSRYX106M6R3		
			C 891		CKSRYX225K10		
C 718		CKSSYX105K10					
C 719		CKSSYB104K10	C 1003		CKSSYB104K16		
C 721		CKSSYX105K16	C 1004		CKSSYB104K16		
C 722		CKSSYB104K10	C 1101		CKSSYB103K16		
C 723		CKSSYB102K50	C 1105		CKSSYX105K10		
			C 1106		CKSSYX105K10		
C 729		CKSQYX106K10					
C 731		CKSSYB104K10	C 1109		CKSSYB102K50		
C 741		CKSRYX225K10	C 1201	1 000 pF	CCG1345		
C 742		CKSSYB104K10	C 1202		CKSSYX104K50		B
C 743		CKSSYB104K10	C 1203		CKSRYX104K50		
			C 1204		CKSRYX105K16		
C 761		CKSRYX105K16					
C 762		CKSRYX105K16	C 1205		CCSRCH221J50		
C 763		CKSRYX105K16	C 1206		CCSRCH221J50		
C 767	(C,D,E)	CKSRYX105K16	C 1210		CKSRYX105K16		
C 768	(C,D,E)	CKSRYX105K16	C 1212		CCSSCH470J50		
			C 1217		CCSSCH121J50		
C 769		CKSRYX105K16					
C 770		CKSRYX105K16	C 1221		CKSYX106K35		
C 771		CKSRYX105K16	C 1241	(A,C)	CKSQYX106K10		
C 772		CKSRYX105K16	C 1241	(B)	CKSQYX106K25		
C 773		CKSRYX105K16	C 1242	(A,C)	CKSQYX106K10		C
			C 1242	(B)	CKSQYX106K25		
C 774		CCSSCH151J50					
C 775		CCSSCH151J50	C 1243	(A,C,D,E)	CKSQYX106K10		
C 776		CKSSYX104K50	C 1243	(B)	CKSQYX106K25		
C 777		CKSYX106K35	C 1244	(A,C,D,E)	CKSQYX106K10		
C 778	(C,D,E)	CKSRYX105K16	C 1244	(B)	CKSQYX106K25		
			C 1245	(A,C,D,E)	CKSQYX106K10		
C 779		CKSQYX106K10					
C 780		CKSSYB104K16	C 1245	(B)	CKSQYX106K25		
C 781		CKSRYX105K16	C 1246	(A,C,D,E)	CKSQYX106K10		
C 782		CKSRYX105K16	C 1246	(B)	CKSQYX106K25		
C 783		CKSRYX105K16	C 1247	(A,C,D,E)	CKSSYB102K50		
			C 1247	(B)	CKSSYB103K16		D
C 784		CKSRYX105K16					
C 785		CKSRYX105K16	C 1248	(A,C,D,E)	CKSSYB102K50		
C 787		CKSQYX106K16	C 1248	(B)	CKSSYB103K16		
C 788		CKSQYX106K16	C 1249	(A,C,D,E)	CKSSYB102K50		
C 790		CKSRYX106M6R3	C 1249	(B)	CKSSYB103K16		
			C 1250	(A,C,D,E)	CKSSYB102K50		
C 791		CKSSYB103K25					
C 794		CCSSCH101J50	C 1250	(B)	CKSSYB103K16		
C 853		CCSSCH120J50	C 1251	(A,C)	CKSSYB102K50		
C 854		CCSSCH471J50	C 1251	(B)	CKSSYB103K16		
C 856		CKSSYX104K50	C 1252	(A,C)	CKSSYB102K50		
			C 1252	(B)	CKSSYB103K16		
C 857		CKSSYX104K50					
C 858		CCSSCH5R0C50	C 1253		CKSSYB103K16		E
C 859		CCSSCH120J50	C 1254		CKSSYB104K10		
C 860	(E)	CCSSCK2R0C50	C 1255		CKSSYB331K50		
C 861	(E)	CCSSCK2R0C50	C 1256		CKSSYX105K10		
			C 1276		CKSSYB104K16		
C 862	(E)	CCSSCK2R0C50					
C 863	(E)	CCSSCK2R0C50	C 1277		CKSSYB104K16		
C 865		CKSRYX225K10	C 1278		CKSSYB104K16		
C 866		CKSSYB224K6R3	C 1279		CKSSYB104K16		
C 867		CKSSYB102K50	C 1280		CKSSYB102K50		
			C 1281		CKSSYB102K50		
C 870		CKSSYB102K50					
C 872		CKSSYB104K10	C 1301		CKSQYB474K25		F
C 874		CCSSCH180J50	C 1302		CKSQYB474K25		
C 875		CKSSYB104K10	C 1303		CKSQYB474K25		
C 878		CKSSYB152K50	C 1304		CKSQYB474K25		

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

C 1305		CKSSYB104K10
C 1306		CKSRYB474K10
C 1308		CKSRYX104K50
C 1310		CKSQYX106K16
C 1311		CKSRYX225K10
C 1312		CKSRYX104K50
C 1317		CKSRYX104K50
C 1318		CKSRYX104K50
C 1321		CKSRYX106M6R3
C 1401 (C,D,E)		CKSSYB104K10
C 1403 (C,D,E)		CKSRYX106M6R3
C 1404 (C,D,E)		CKSSYB104K10
C 1405 (C,D,E)		CKSSYX105K10
C 1406 (C,D,E)		CKSSYB104K10
C 1407 (C,D,E)		CKSSYB182K50
C 1408 (C,D,E)		CKSRYX105K25
C 1409 (C,D,E)		CKSSYX105K10
C 1410 (C,D,E)		CCSSCH6R0D50
C 1411 (C,D,E)		CKSSYB102K50
C 1412 (C,D,E)		CKSSYB104K10
C 1421 (C,D,E)		CKSRYX105K16
C 1422 (C,D,E)		CKSRYX105K16
C 1424		CKSRYB474K10

S 1832	Push Switch	CSG1155
S 1833	Push Switch	CSG1155
S 1834	Push Switch	CSG1155
S 1835	Push Switch	CSG1155
S 1836	Rotary Encoder(MULTI-CONTROL)	CSD1212
CN1941	Connector	CKS6287
JA 1901	Connector	CKS6443
JA 1921	Jack	CKN1090
V 1801	Segment LCD	CAW2065

RESISTORS

R 1802		XRS1/10SR472J
R 1821		XRS1/10SR273J
R 1852 (C)		XRS1/10SR473J
R 1854 (A,B,D,E)		XRS1/10SR101J
R 1921		XRS1/10SR221J
R 1922		XRS1/10SR221J
R 1923		XRS1/10SR0R0J
R 1941		XRS1/10SR222J
R 1942		XRS1/10SR222J
R 1943		XRS1/10SR222J
R 1944		XRS1/10SR222J
R 1951		XRS1/10SR332J
R 1952		XRS1/10SR152J
R 1953		XRS1/10SR332J
R 1954		XRS1/10SR152J
R 1955		XRS1/10SR332J
R 1956		XRS1/10SR152J
R 1957		XRS1/10SR680J
R 1958		XRS1/10SR680J
R 1959		XRS1/10SR680J

R 1960		XRS1/10SR332J
R 1961		XRS1/10SR152J
R 1962		XRS1/10SR332J
R 1963		XRS1/10SR152J
R 1964		XRS1/10SR332J
R 1965		XRS1/10SR152J
R 1966		XRS1/10SR680J
R 1967		XRS1/10SR680J
R 1968		XRS1/10SR680J
R 1969		XRS1/10SR221J

R 1970		XRS1/10SR121J
R 1971		XRS1/10SR121J

CAPACITORS

C 1801		CKSRYX105K16
C 1851 (A,B,D,E)		CKSQYX106K10
C 1901		CCSRCH471J50
C 1904		CKSRYX475K10
C 1921 1 000 pF		CCG1345
C 1922 1 000 pF		CCG1345

**Unit Number: CWX4269****Unit Name : CD Core Unit(11.6VA_T07)****MISCELLANEOUS**

B
Unit Number: QWM4984(A,B,D,E)
Unit Number: QWM4985(C)
Unit Name : Keyboard Unit

MISCELLANEOUS

IC 1801	Driver IC	BU97540KV-M
IC 1851	IR RC REC Module(A,B,D,E)	PNJ4833M
Q 1951	Bipolar Transistor	LSCR523UB
Q 1952	Bipolar Transistor	LSCR523UB
Q 1953	Bipolar Transistor	LSCR523UB
Q 1954	Bipolar Transistor	LSCR523UB
Q 1955	Bipolar Transistor	LSCR523UB
Q 1956	Bipolar Transistor	LSCR523UB
D 1901	Zener Diode	SZESD7351HG
D 1902	Zener Diode	SZESD7351HG
D 1941	Zener Diode	RSB6R8SM
D 1942	Zener Diode	RSB6R8SM
D 1951	LED	NSSM124F-A21107
D 1952	LED	NSSM124F-A21107
D 1953	LED	NSSM124F-A21107
D 1954	LED	NSSM124F-A21107
D 1955	LED	NSSM124F-A21107
S 1821	Push Switch	CSG1155
S 1822	Push Switch	CSG1155
S 1823	Push Switch	CSG1155
S 1824	Push Switch	CSG1155
S 1825	Push Switch	CSG1155
S 1826	Push Switch	CSG1155
S 1827	Push Switch	CSG1155
S 1828	Push Switch	CSG1155
S 1829	Push Switch	CSG1155
S 1830	Push Switch	CSG1155
S 1831	Push Switch	CSG1155

<u>Circuit Symbol and No.</u>	<u>Part No.</u>
IC 201 Mask UC IC	PEQ094A
IC 301 Driver IC	BD8223EFV
Q 101 Transistor	2SAR502UB
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	RS1/16SS152J
R 214	RS1/16SS103J
R 215	RS1/16SS393J
R 216	RS1/16SS102J
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
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 110	CKSSYB104K10
C 111	CKSSYB103K16
C 203	CKSSYB104K10
C 205	CKSRYB105K10
C 209	CKSRYB104K16
C 210	CKSSYB104K10
C 211	CKSSYB104K10
C 212	CKSSYB104K10
C 213	CKSSYB332K50

<u>Circuit Symbol and No.</u>	<u>Part No.</u>
C 214	CKSSYB473K16
C 215	CKSSYB104K10
C 216	CKSSYB152K50
C 217	CCSSCH390J50
C 218	CCSSCH5R0C50
C 219	CKSSYB104K10
C 220	CKSSYB104K10
C 221	CKSSYB104K10
C 222	CKSSYB104K10
C 223	CCSSCH680J50

C 224	CCSSCH470J50
C 225	CKSSYB103K16
C 228	CCSSCH180J50
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



Unit Number: CWX4023

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

MISCELLANEOUS

IC 201 Mask UC IC	PE5791A
IC 301 Driver IC	BD8223EFV
Q 101 Transistor	2SAR502UB
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

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

R 254 RS1/16SS104J
 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