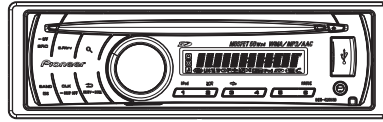


Pioneer

Service Manual



DEH-4250SD/XNES

ORDER NO.
CRT4505

CD RECEIVER

DEH-4280SD

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

Model No.	Order No.	Mech. Module	Remarks
CX-3269	CRT4488	S11STD-DOUT	CD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly



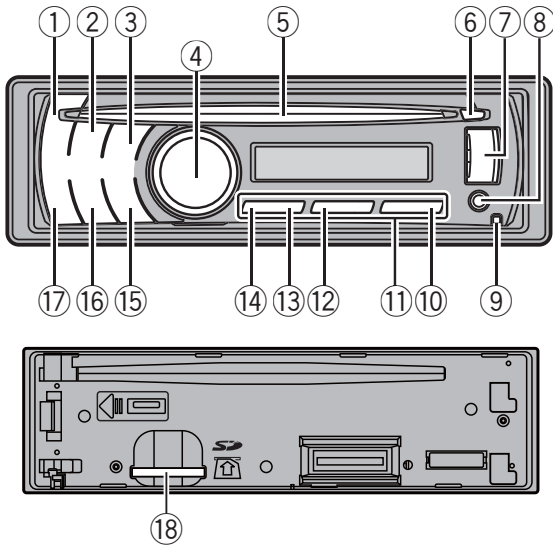
For details, refer to "Important Check Points for Good Servicing".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
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K-ZZZ NOV. 2009 Printed in Japan

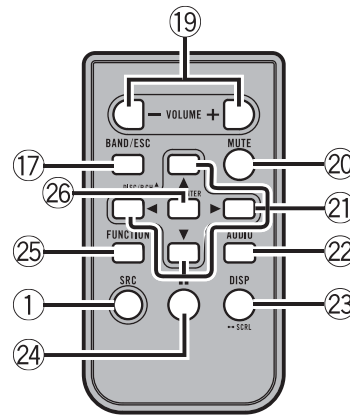
2.3 PANEL FACILITIES

Head unit



Part	Part
① SRC/OFF	⑩ 6 / PAUSE
② S.Rtrv	⑪ 1 to 6
③ Q (list)	⑫ 3 / ↶
④ MULTI-CONTROL (M.C.)	⑬ 2 / ✕
⑤ Disc loading slot	⑭ 1/iPod
⑥ ▲ (eject)	⑮ ➡/DISP/SCRL.
⑦ USB port	⑯ CLK / DISP OFF
⑧ AUX input jack (3.5 mm stereo jack)	⑰ BAND / ESC
⑨ Detach button	⑱ SD memory card slot Only for ES, ES1, ID . You can see the SD memory card slot if you remove the front panel.

Remote control



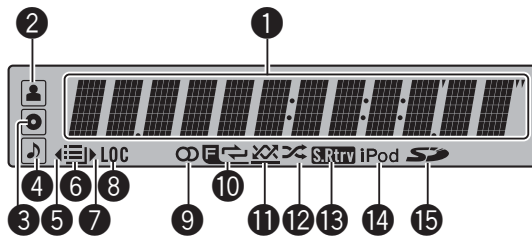
Part	Operation
⑱ VOLUME	Press to increase or decrease volume.
⑳ MUTE	Press to mute. Press again to unmute.
㉑ ▲/▼/◀/▶	Press to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.
㉒ AUDIO	Press to select an audio function.
㉓ DISP/SCRL	Press to select different displays. Press and hold to scroll through the text information.
㉔ 	Press to pause or resume.
㉕ FUNCTION	Press to select functions. Press and hold to recall the initial setting menu when the sources are off.
㉖ LIST/ENTER	Press to display the list depending on the source. While in the operating menu, press to control functions.

⚠ CAUTION

Use an optional Pioneer USB cable (CD-U51E) to connect the USB audio player/USB memory to the USB port. Since the USB audio player/USB memory is projected forward from the unit, it is dangerous to connect directly.

Do not use the unauthorized product. ■

Display indication



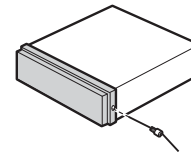
Indicator	State
1	Main display section Tuner: band and frequency Built-in CD, external storage device (USB, SD) and iPod: elapsed playback time and text information
2	(artist) The disc (track) artist name is displayed. Artist search refinement on the iPod browsing function is in use.
3	(disc) The disc (album) name is displayed. Album search refinement on the iPod browsing function is in use.
4	(song) The track (song) name is displayed. A playable audio file has been selected while operating the list. Song search refinement on the iPod browsing function is in use.
5	◀ An upper tier of folder or menu exists.
6	(list) The list function is operated.
7	▶ A lower tier of folder or menu exists. It flashes when a song/album related to the song currently playing is selected from iPod.
8	LOC The local seek tuning is on.
9	(stereo) The selected frequency is being broadcasted in stereo.
10	(folder repeat) Folder repeat is on. When repeat function is on, only ↻ is displayed.
11	(folder random) Folder random is on. When random function is on, only 🎲 is displayed.

12	(shuffle) Shuffle or shuffle all function is on while the iPod source is being selected.
13	(sound retriever) The sound retriever function is on.
14	iPod CTRL (control mode) is set to iPod.
15	(SD memory card) Only for ES, ES1, ID SD/SDHC memory card is inserted.



Fastening the front panel

If you do not plan to detach the front panel, the front panel can be fastened with supplied screw.

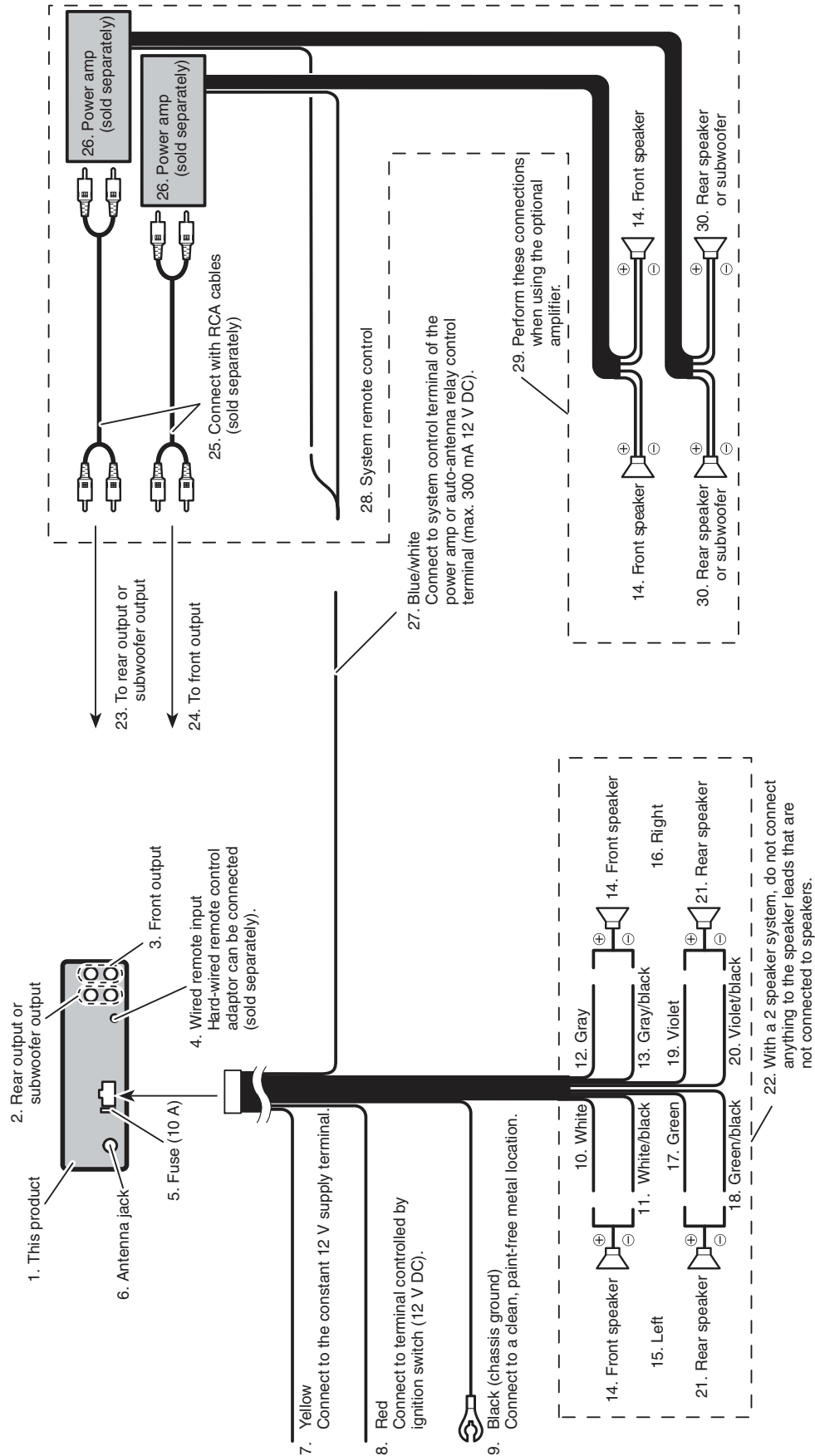


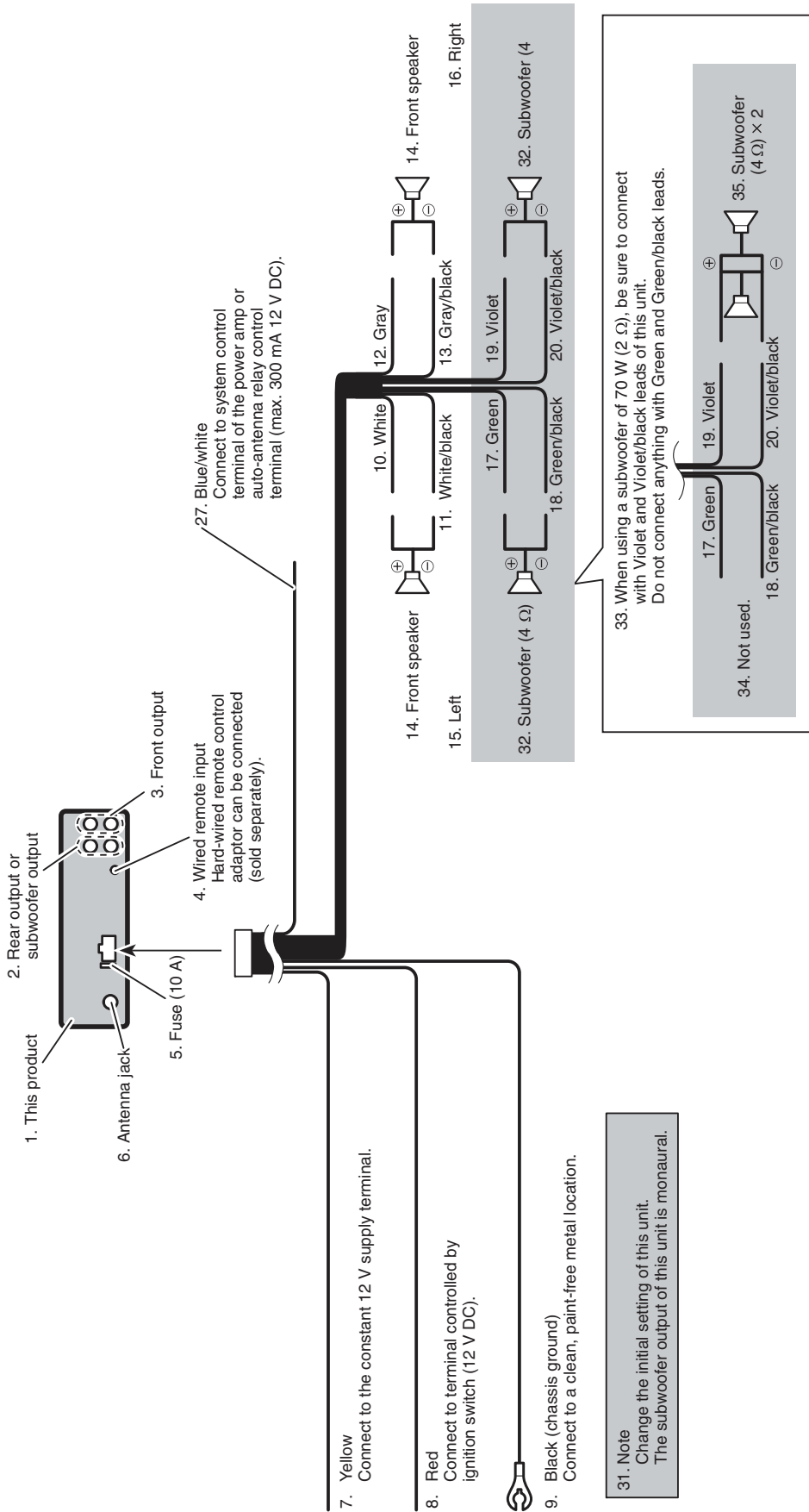
ES, ES1, ID
Service Screw
CXX2204

UC
Screw
BPZ20P060FTC

2.4 CONNECTION DIAGRAM

DEH-4250SD/XNES, DEH-4250SD/XNES1

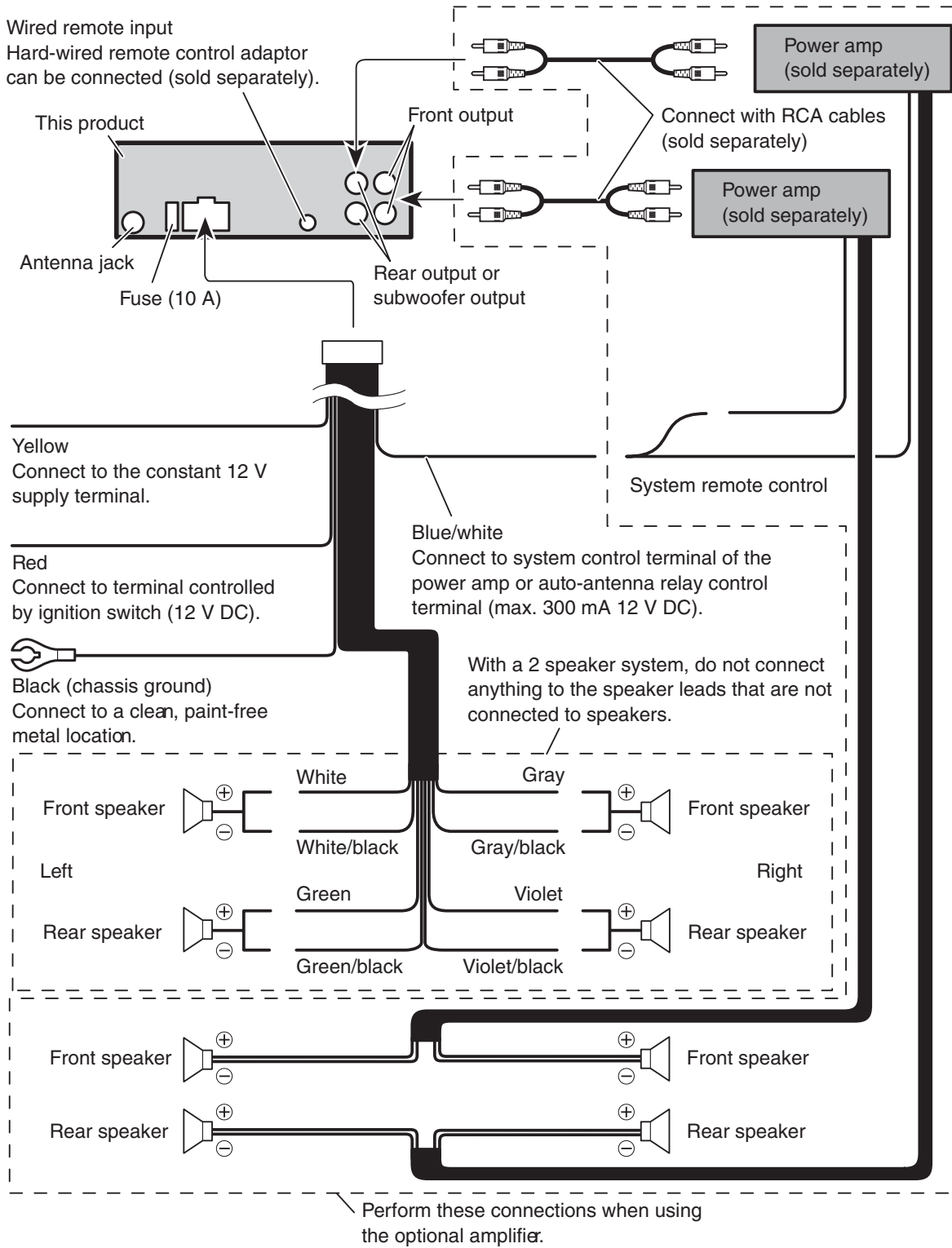




DEH-4250SD/XNES

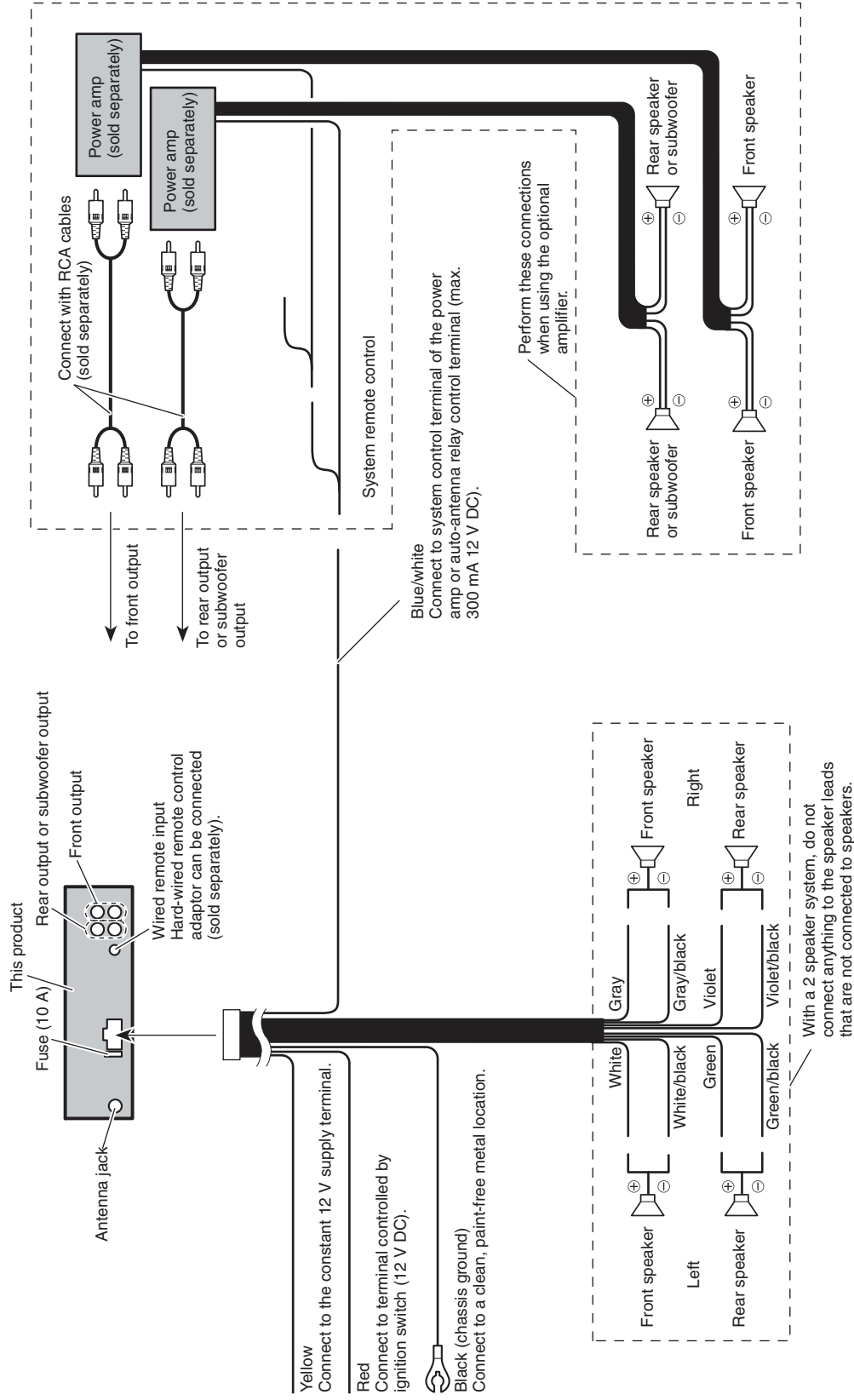
A B C D E F

DEH-4290SD/XNID

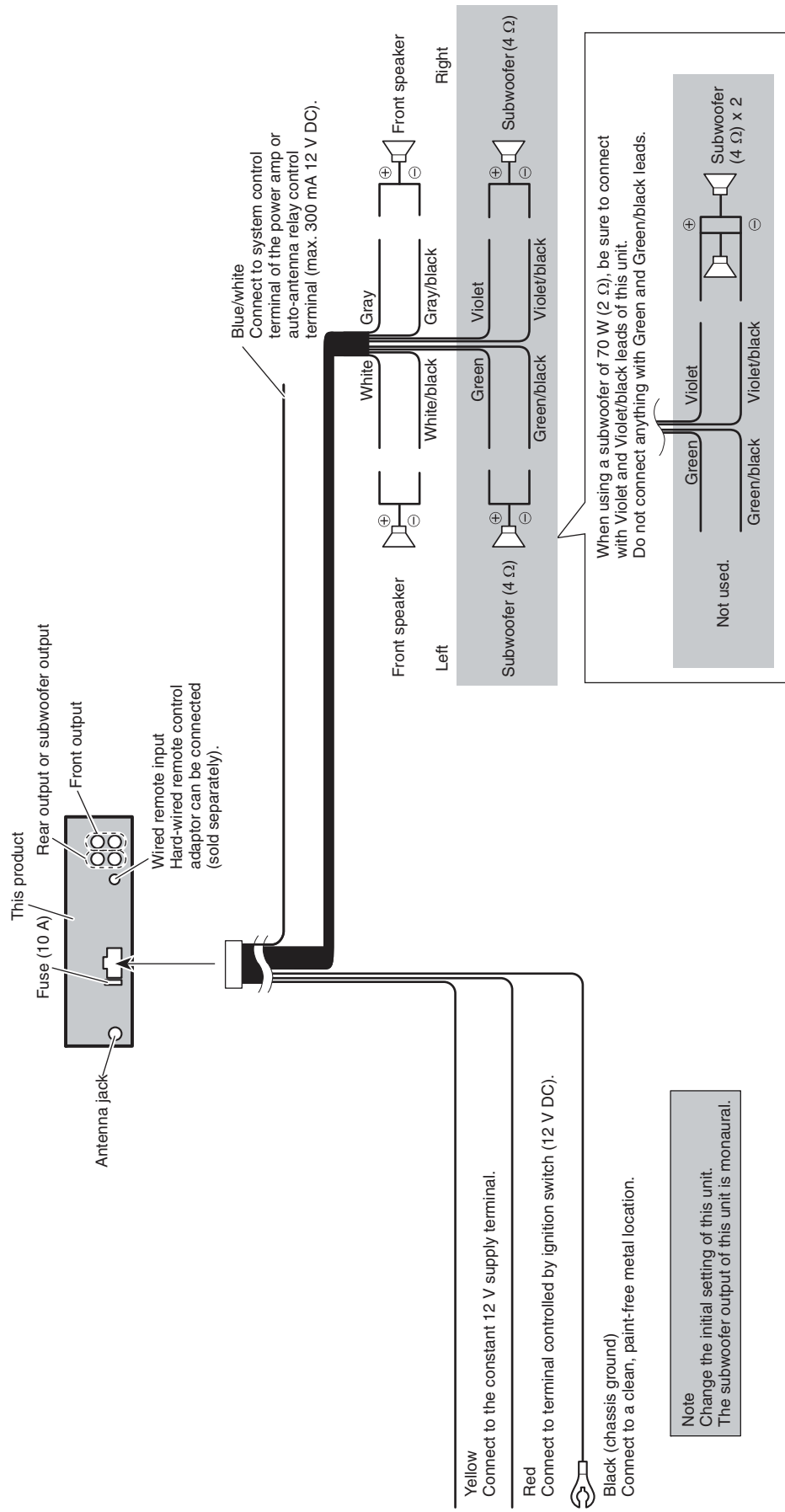


DEH-3200UB/XNUC

When not connecting a rear speaker lead to a subwoofer



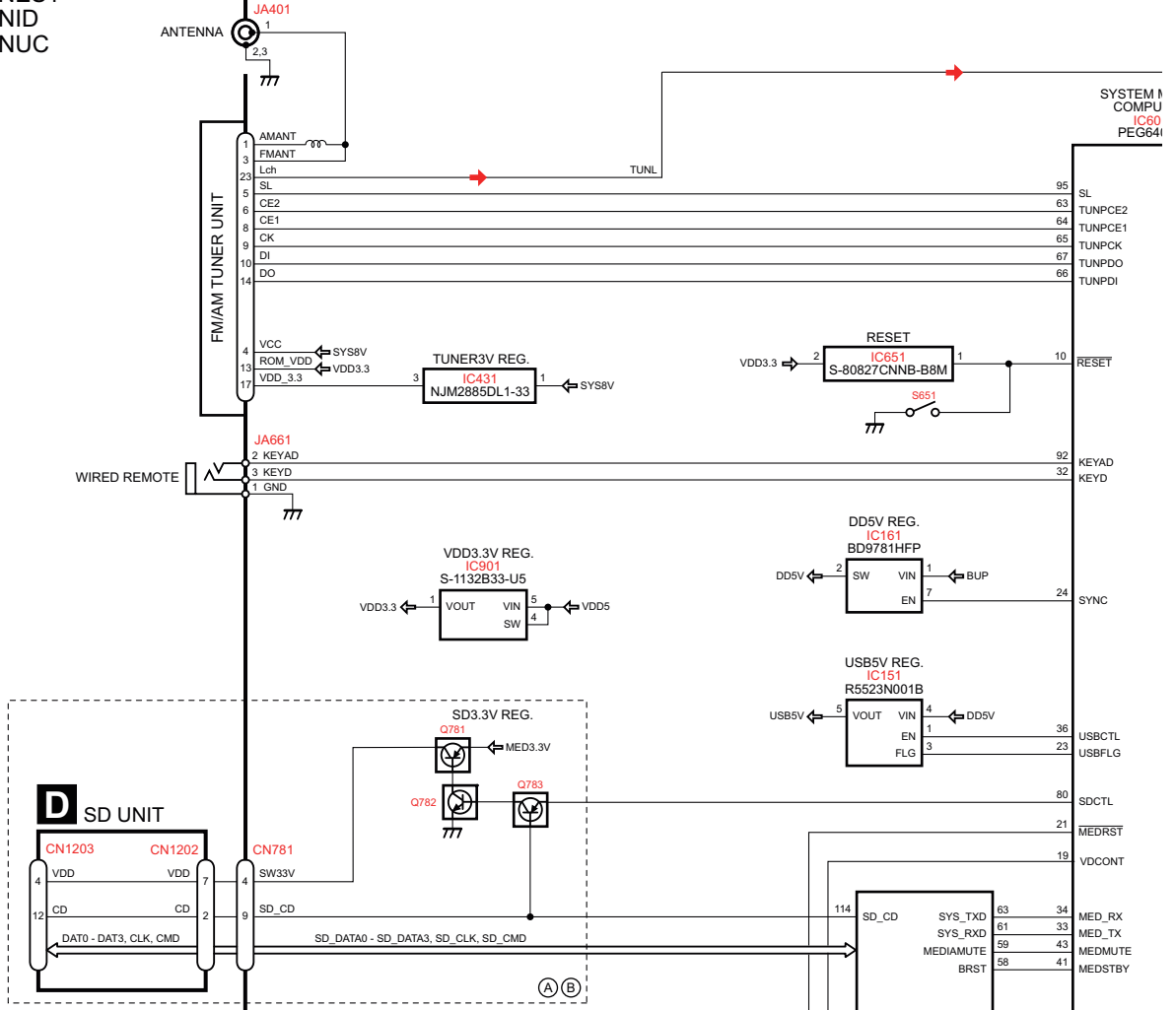
When using a subwoofer without using the optional amplifier



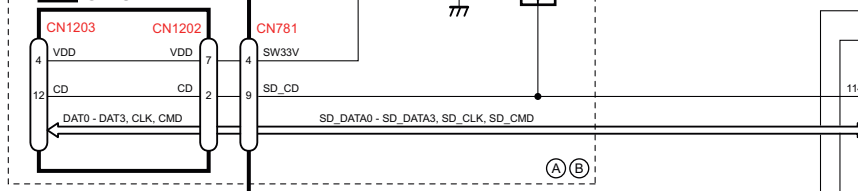
4. BLOCK DIAGRAM

- Ⓐ :DEH-4250SD/XNES
:DEH-4250SD/XNES1
- Ⓑ :DEH-4290SD/XNID
- Ⓒ :DEH-3200UB/XNUC

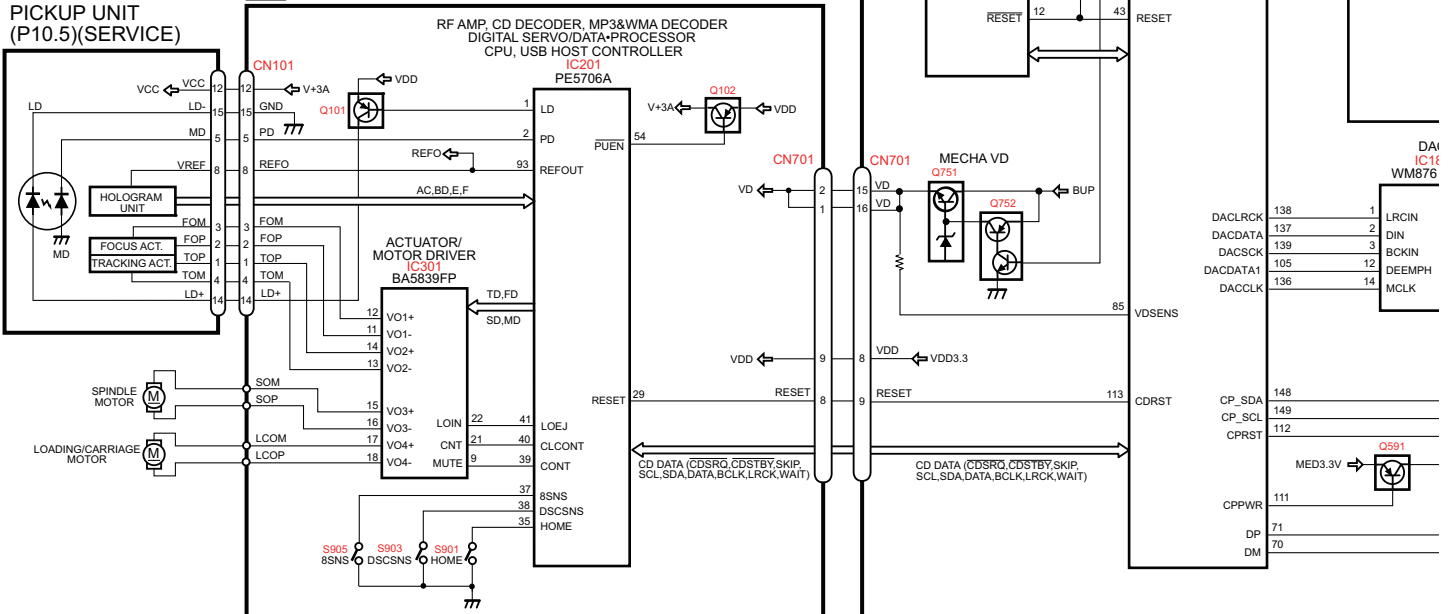
Ⓐ TUNER AMP UNIT

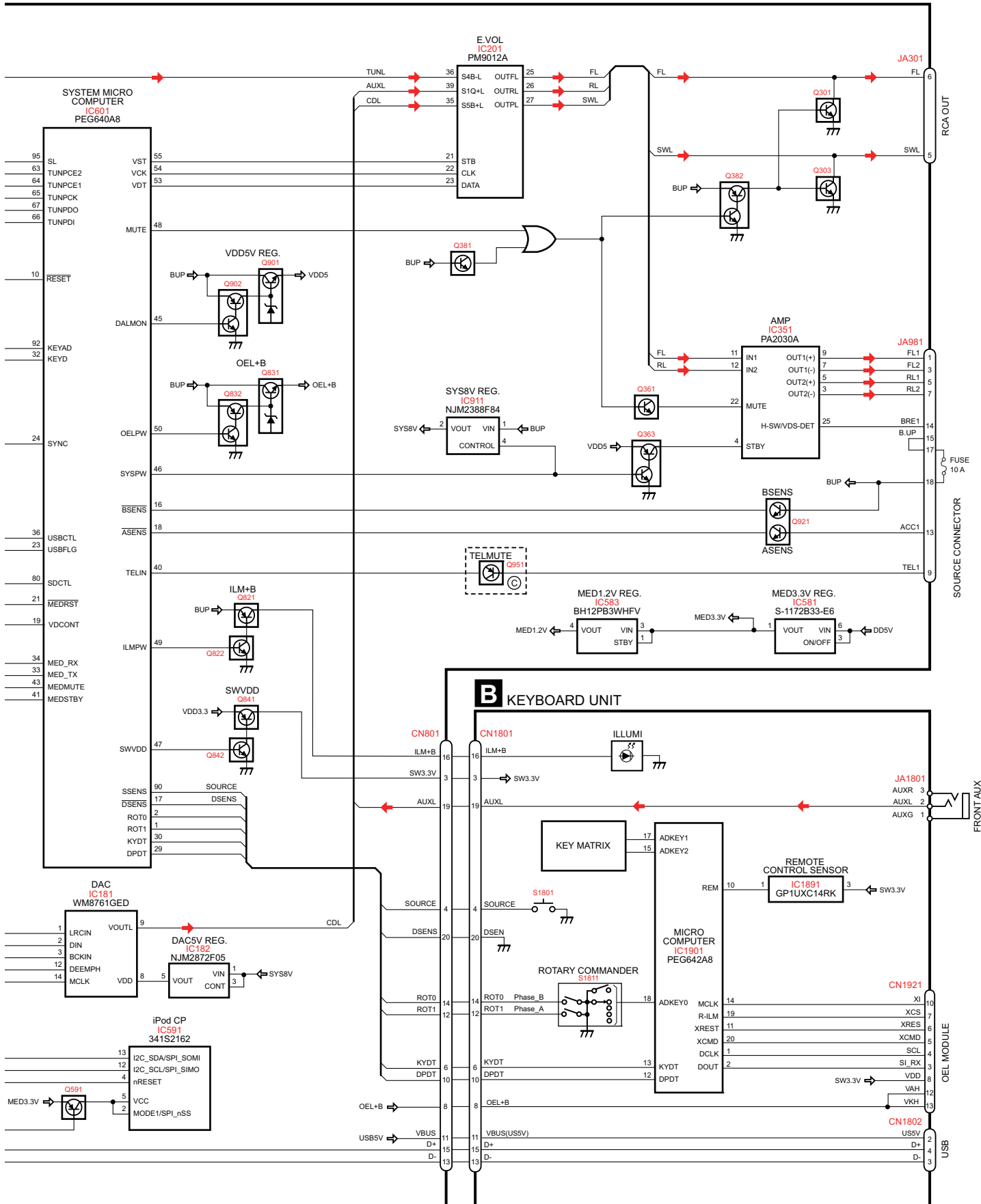


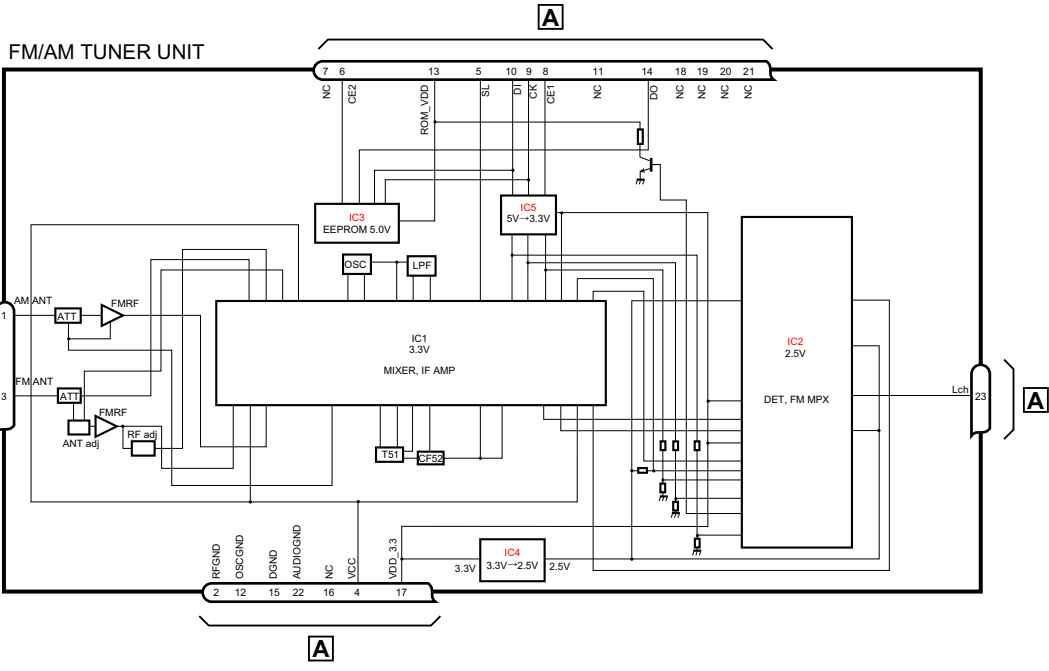
Ⓓ SD UNIT



Ⓒ CD CORE UNIT(S11STD-DOUT)

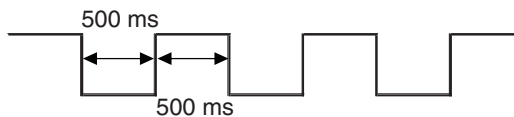
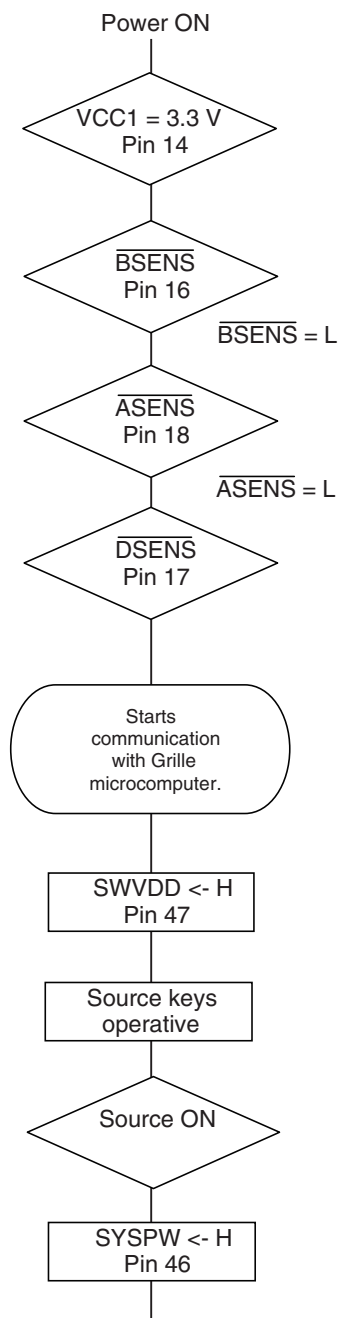






5. DIAGNOSIS

5.1 OPERATIONAL FLOWCHART



In case of the above signal, the communication with Grille microcomputer may fail.
If the time interval is not 500 msec, the oscillator may be defective.

Completes power-on operation.
(After that, proceed to each source operation)

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 main unit

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

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

8-digit display

ERROR-xx

6-digit display

ERR-xx

4-digit display

E-xx

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

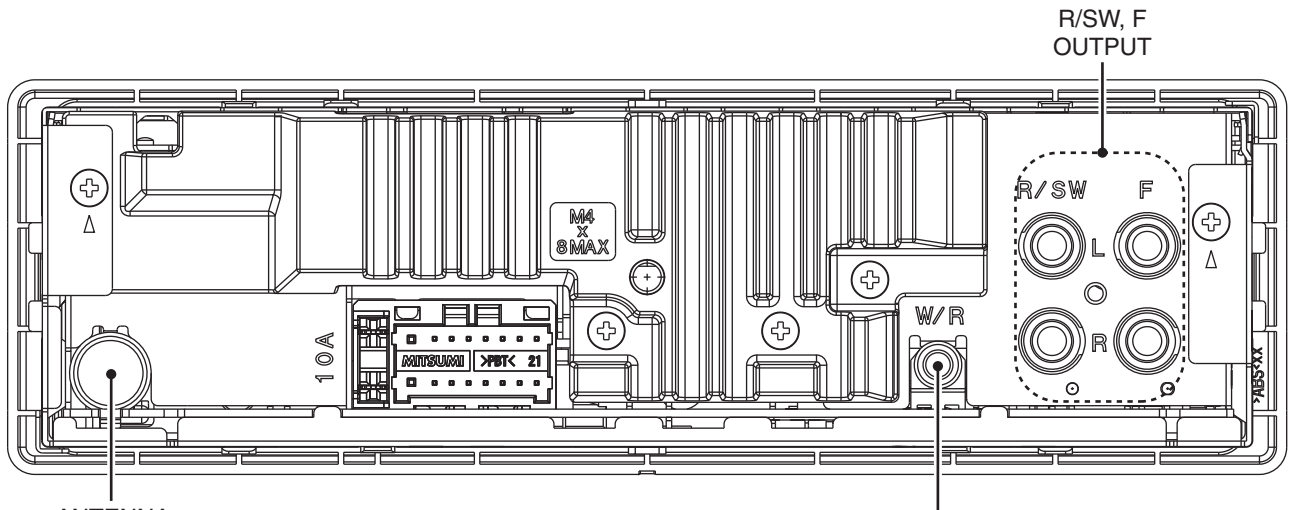
Code	Classification	Error code to be displayed	Details and possible causes
7	Servo	TOC reading NG	TOC information cannot be read. --> The partial disk or TOC content is illegal.
10	Servo	Carriage Home NG	The CRG cannot move toward the inner track. The CRG cannot move from the inner track. --> Defective HOME SW; Failure in CRG movement.
11	Servo	Focus Search 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 disc that does not contain data loaded, or in a rare case, disc placed upside-down. --> CD signal error.
15	Servo	Failure in RF data	RF not read --> A CD-R disc that does not contain data loaded --> A CD-RW disc that does not contain data loaded
17	Servo	Setup NG	AGC protection does not work. Focus can be easily lost. --> Scratches or stains on the disc; excessive vibration.
30	Servo	Search Time Out	Failed to reach a target address --> CRG tracking error; Scratches on the disc; Stains on the disc
50	Mechanism	Failure in ejection Load NG	Disc ejection not completed Disc loading 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

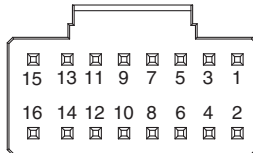
- Indications of error codes are available only during disc operations, because CD operations are unavailable if a mechanical error is generated.
- If the TOC cannot be read, this is not processed as an error, and operation continues accordingly.
- If you design a new head unit, be sure to use one of the display formats indicated in "Display example of the main unit."
- The 2 high-order digits of an error code denote the main classification, shown below.
 - 0x: Servo-related errors
 - 1x: Servo-related errors
 - 3x: Servo-related errors
 - 5x: Mechanism-related errors
- How to restore from each error is shown below.
 - 0x, 1x and 3x: ACC-OFF then ON, CD-OFF then ON, Disc ejection
 - 5X: ACC-OFF then ON, Disc ejection, Disc reloading

5 6 7 8

5.3 CONNECTOR FUNCTION DESCRIPTION



ANTENNA



WIRED REMOTE CONTROL

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

6. SERVICE MODE

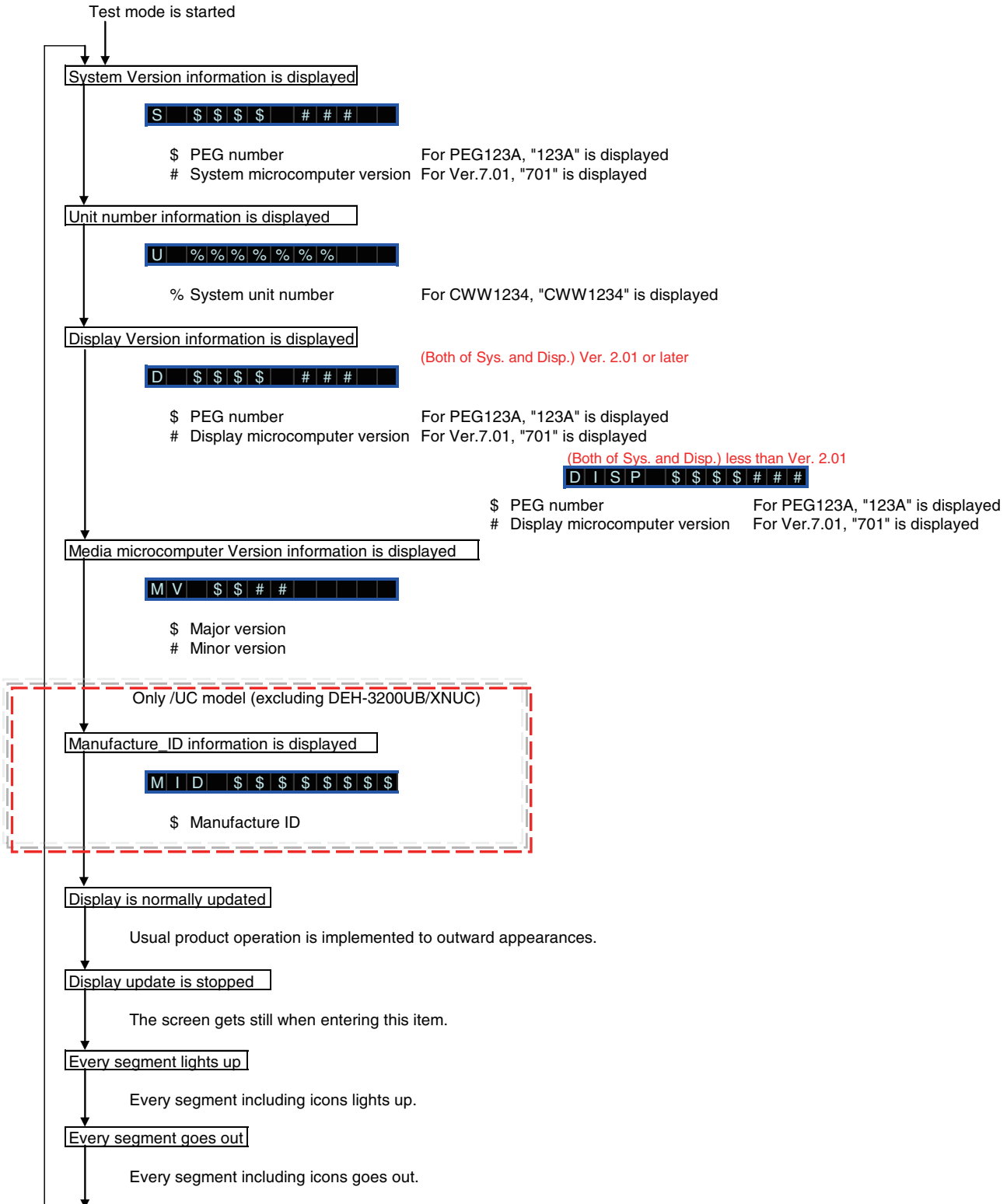
6.1 DISPLAY TEST MODE

The information such as the system version is checked and the lighting of every segment on the display is checked.

[Operation key]

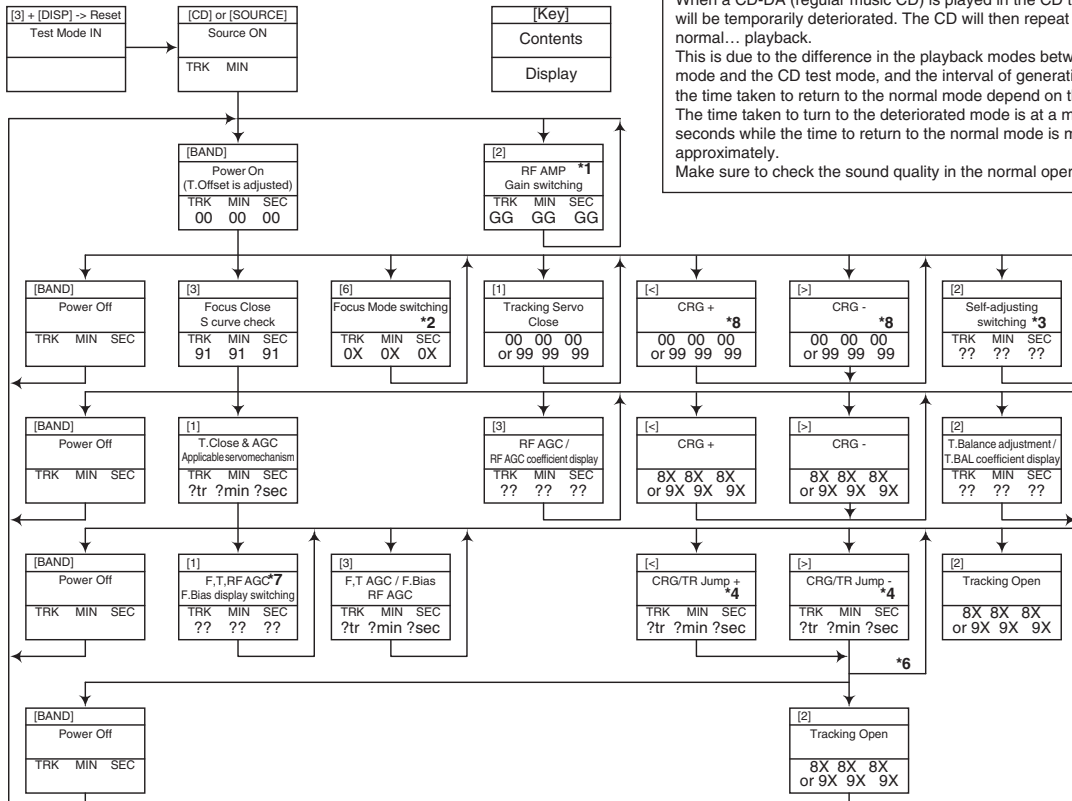
Corresponding key	Processing	Remarks
CLK/DISP OFF + LIST	Switching to next test display	Also used as an entry key

[Test item]



6.2 CD TEST MODE

Flow Chart



NOTE
 When a CD-DA (regular music CD) is played in the CD test mode, its sound quality will be temporarily deteriorated. The CD will then repeat normal, deteriorated, normal... playback.
 This is due to the difference in the playback modes between the normal operation mode and the CD test mode, and the interval of generating deteriorated mode and the time taken to return to the normal mode depend on the error of each clock. The time taken to turn to the deteriorated mode is at a minimum around 20 seconds while the time to return to the normal mode is maximum 40 seconds approximately.
 Make sure to check the sound quality in the normal operation mode.

- *1) TYP -- + 6 dB -- + 12 dB
 TRK MIN SEC TRK₀₆MIN₀₆SEC₀₆ TRK₁₂MIN₁₂SEC₁₂
- *2) Focus Close -- S. Curve -- F EQ measurement setting
 TRK₀₀MIN₀₀SEC₀₀ TRK₀₁MIN₀₁SEC₀₁ TRK₀₂MIN₀₂SEC₀₂
 (TRK₉₉MIN₉₉SEC₉₉)
- *3) F.Offset Display → T.Offset Display → Switch to the order of the original display
- *4) 100TR Jump
- *7) TRK/MIN/SEC → F.AGC → T.AGC Gain → F.Bias → RF AGC
- *8) CRG motor voltage = 2 [V]
- *9) TYP (1X) -- 2X -- 1X
 TRK MIN SEC TRK₂₂MIN₂₂SEC₂₂ TRK₁₁MIN₁₁SEC₁₁
- *10) OFF(TYP) -- FORCUS -- TRACKING
 TRK MIN SEC TRK₇₀MIN₇₀SEC₇₀ TRK₇₁MIN₇₁SEC₇₁

[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).
- 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 Case (not shown)

1. Remove the Case.

● Removing the CD Mechanism Module (Fig.1)

1 Release the two latches and then remove the Panel Assy.

2 Remove the four screws.

Disconnect the connector and then remove the CD Mechanism Module.

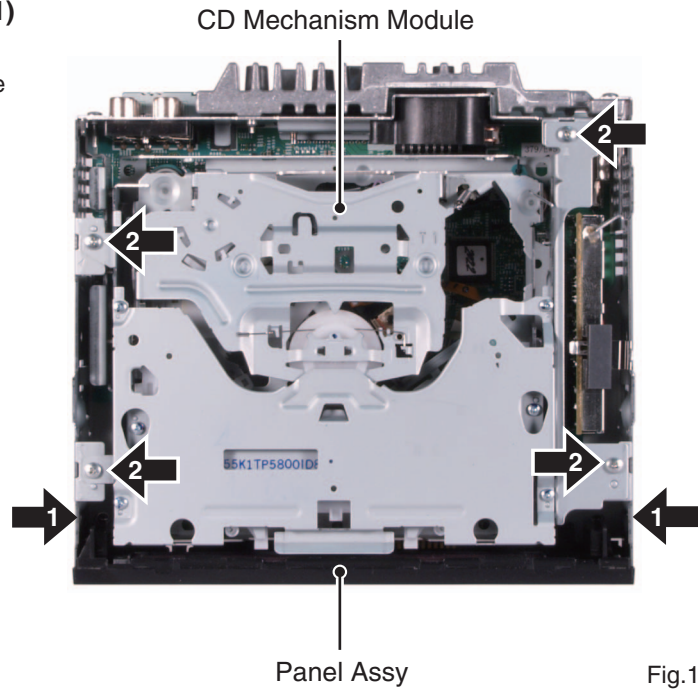


Fig.1

● Removing the Tuner Amp Unit and SD Unit (Fig.2)

1 Remove the two screws.

2 Disconnect the connector.

3 Remove the screw.

4 Straighten the tabs at five locations indicated and then remove the Tuner Amp Unit.

5 Straighten the tabs at three locations indicated and then remove the SD Unit (DEH-4250SD/XNES, DEH-4250SD/XNES1, DEH-4290SD/XNID).

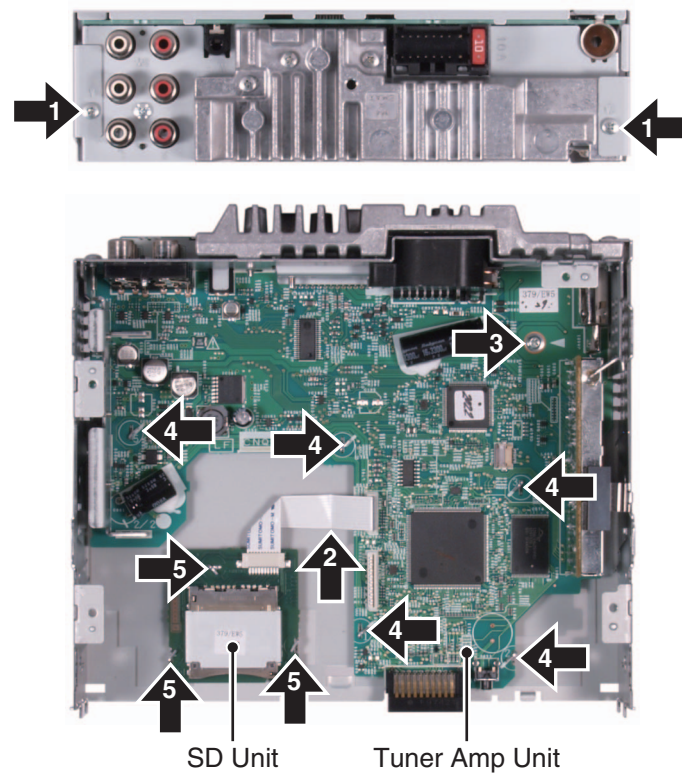
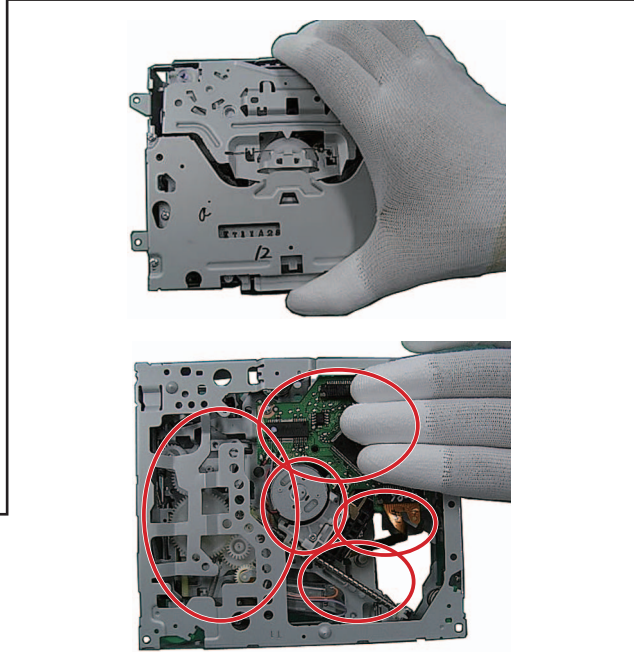


Fig.2

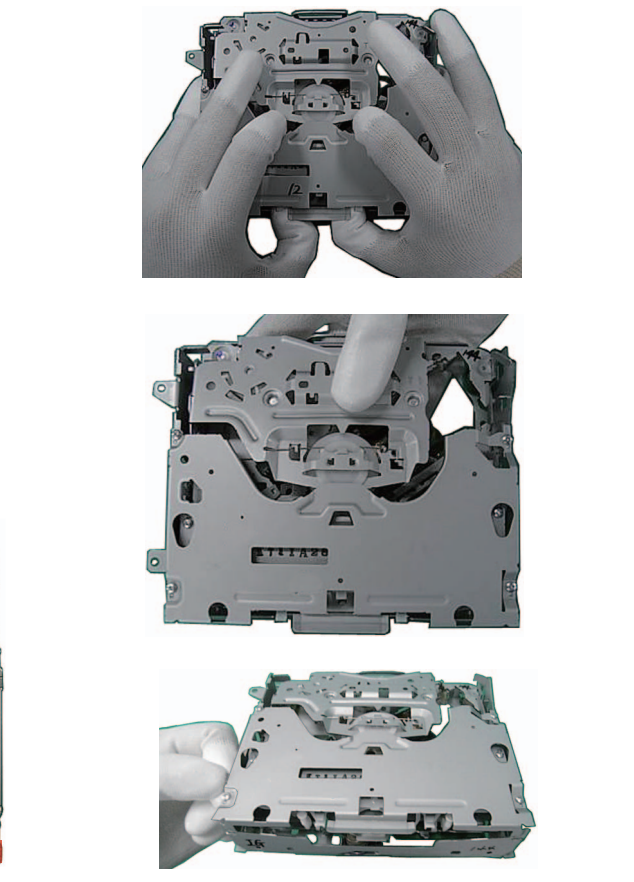
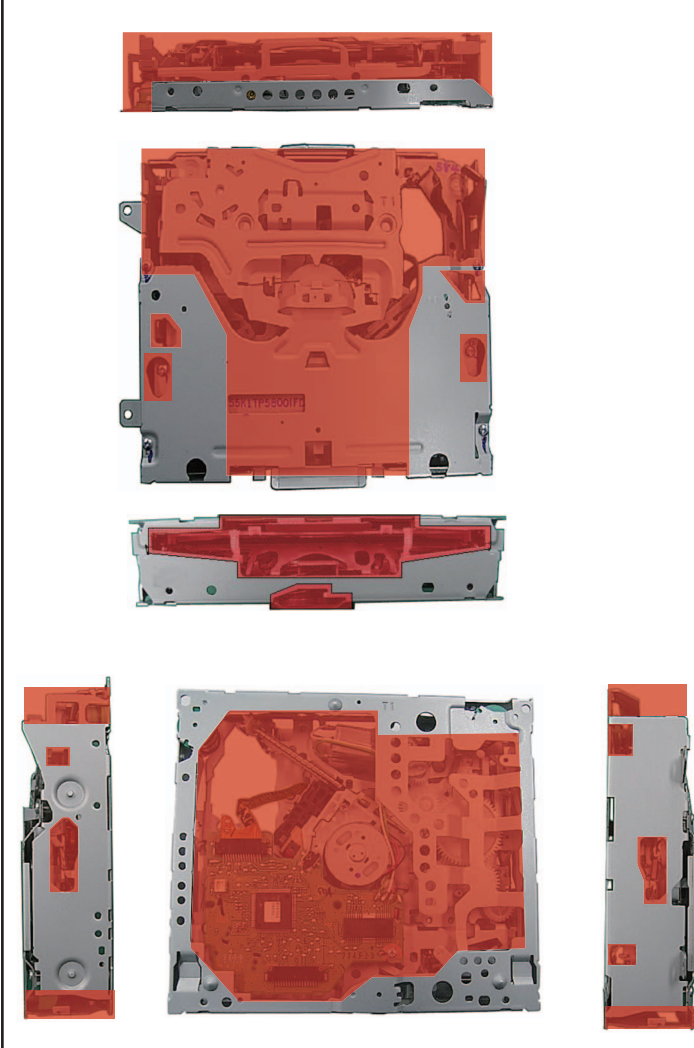
● How to Hold the Mechanism Unit

1. Hold the Upper and Lower Frames at the specified parts (circled with broken blue lines in the photo below).
2. You can hold the tabs of the Lower Frame (circled with broken green lines in the photo below) if you do so only while lifting the Mechanism Unit from the table. Keeping the Mechanism Unit lifted by holding these tabs with your fingers may result in deformation.
3. Be careful NOT to hold the front part of the Upper Frame or the CRG Mechanism and NOT to insert foreign objects into these mechanisms. Doing so may result in deformation.

Proper handling

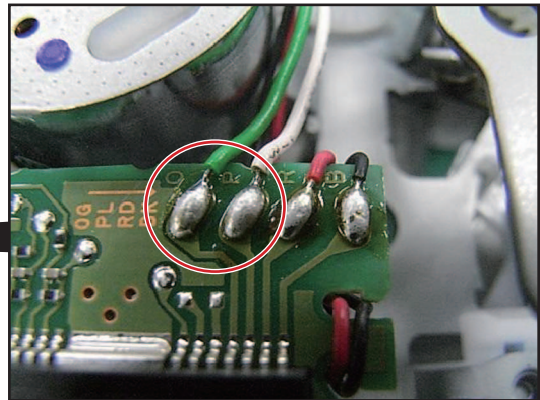
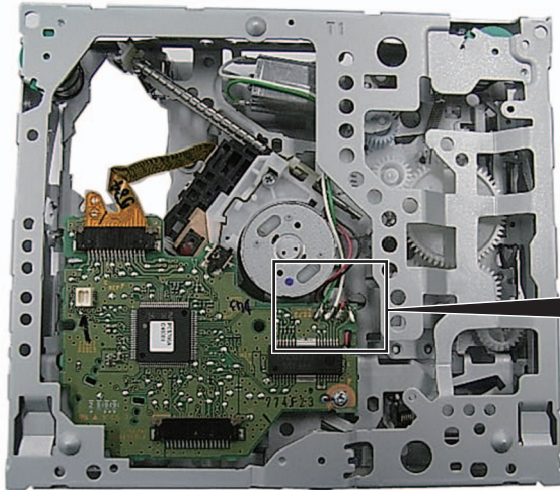


Improper handling



● Mechanism Module: How to Set to the Quasi-Clamp State (Driven by the Motor)

1. Remove the solder from the CRG-motor lead wire (Fig. 1).
2. Push in the Disc Detection Arm while applying 4-V power to the CRG Motor (Fig. 2). (Apply 4-V power to the green lead wire. The white lead wire is for grounding.)
The Mechanism Module is set to the clamped state, and the PU will move toward the outer track.
Note: NEVER apply power to the CRG-motor lead wire without removing the solder from the wire. Doing so may result in damage to the ICs and the PU.
3. Stop the motor when the PU reaches around the middle track.
Note: Jumpiness will occur when the PU reaches the outermost track. Although jumpiness does not constitute a problem, it is recommended that it occur as least frequently as possible.



Note: Be aware that the colors of the lead wires do not match the indications on the Core Board Pattern (green wire to O and white wire to P).

Fig. 1

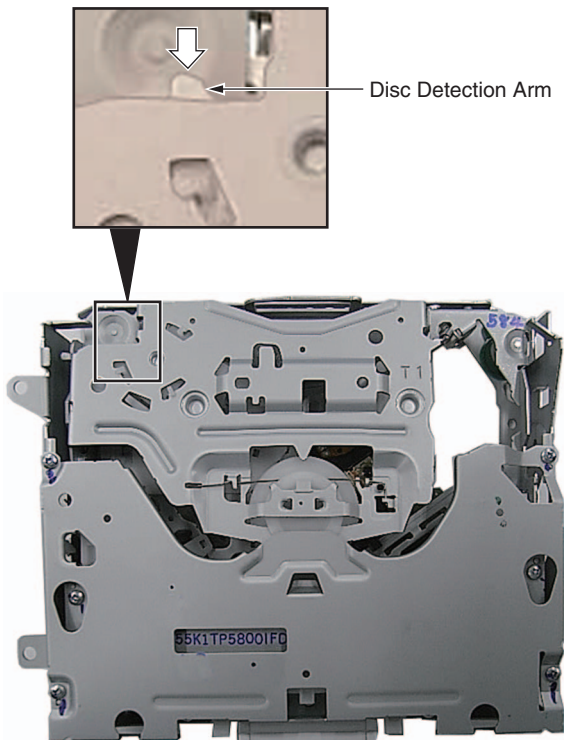


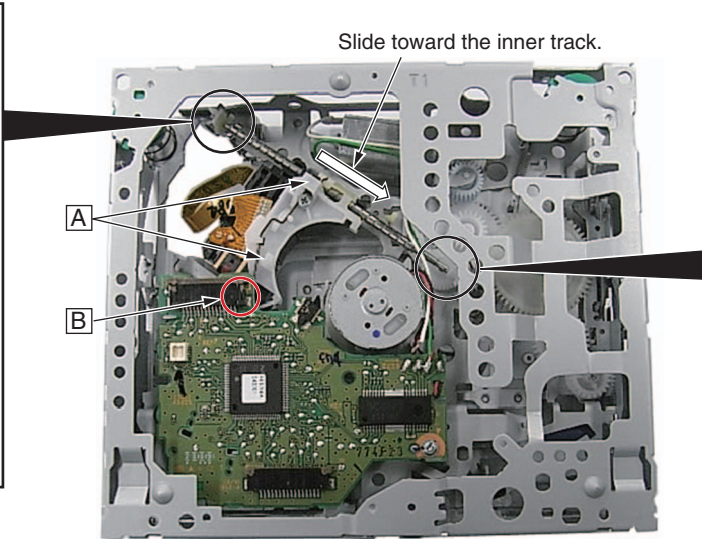
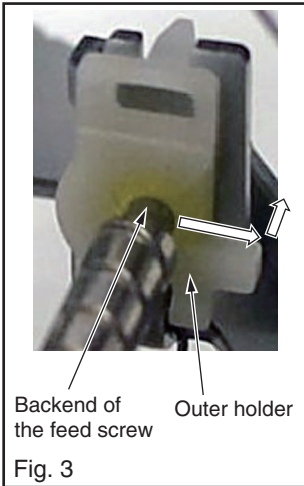
Fig. 2

● How to Remove the PU Unit

1. Set the unit to the quasi-clamp state, following the procedures described in "Mechanism Module: How to Set to the Quasi-Clamp State (Driven by the Motor)."
2. Temporarily change the engagement position of the bias spring of the feed screw (Fig. 2b).
Be careful not to cut yourself on the tip of the spring.
3. Hold the PU unit by parts A in Fig. 1 then slide it toward the inner track.
4. Remove the backend of the feed screw from the outer holder, by first sliding it, as shown in Fig. 3, then lifting it.
5. Remove the PU unit, by lifting it. Lifting the PU unit will disengage the PU unit from the part B of the chassis.

Note: When reassembling the PU unit, be sure to securely engage the PU unit with the part B of the chassis, as shown in Fig. 4. Also, be sure to change the engagement position of the bias spring of the feed screw to its original position (Fig. 2a). After reassembling, perform the PU adjustment, following the description in the service manual.

B



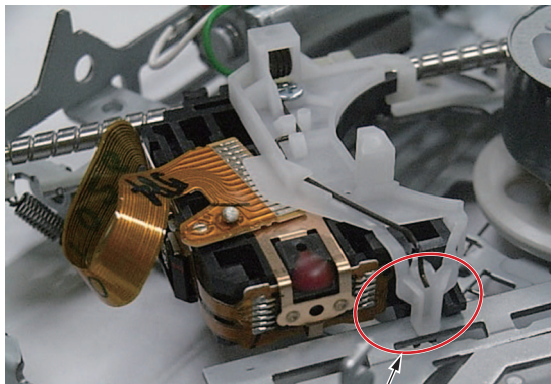
One end of the spring is engaged beneath the resin flange and plate bend.
Fig. 2a
Original engagement position



Fig. 2b
Temporary engagement position

C

D



[Improper assembly]
The chassis is not properly pinched by the PU case and PU rack.

● How to Move the PU toward the Outer Track

1. Set the unit to the quasi-clamp state, following the procedures described in "Mechanism Module: How to Set to the Quasi-Clamp State (Driven by the Motor)."
2. Move the PU unit toward the outer track, by applying 1.5-V power to the CRG motor.

Note: After moving the PU toward the outer track and taking the necessary measures, be sure to solder the lead wires.

F

● How to Remove the PU Rack

1. Remove the PU Unit, following the procedures described in “How to Remove the PU Unit.”
2. Remove the PU Rack fixing screw (Fig. 1).
3. Remove the PU Rack, by applying force in the direction of the arrow in Fig. 2.

Notes:

While handling the PU Unit, be careful NOT to touch the actuator block shown in Fig. 6 or bang the actuator block against your workbench.

Handle the PU and PU Unit with care, according to the description in “How to Hold the PU.”

When reattaching the PU Rack to the PU, first reassemble parts a and b shown in Fig. 3 into the PU case then attach the boss shown in Fig. 4 to the PU case.

After reassembling the PU Rack, insert the feed screw from side c in Fig. 5 (insertion depth: Approx. 18 mm for the part indicated in the photo).

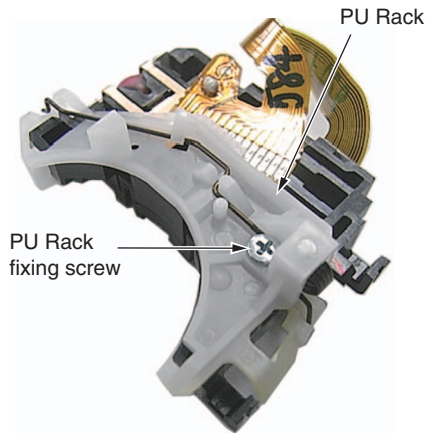


Fig. 1

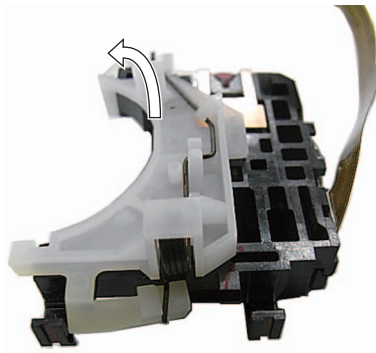


Fig. 2

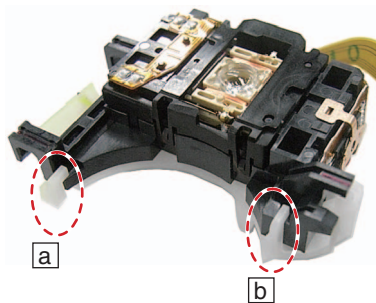


Fig. 3

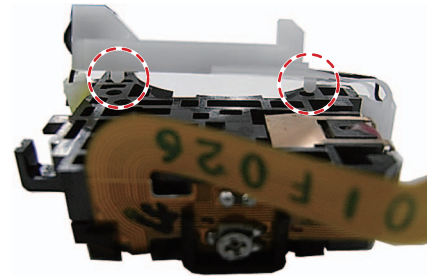


Fig. 4

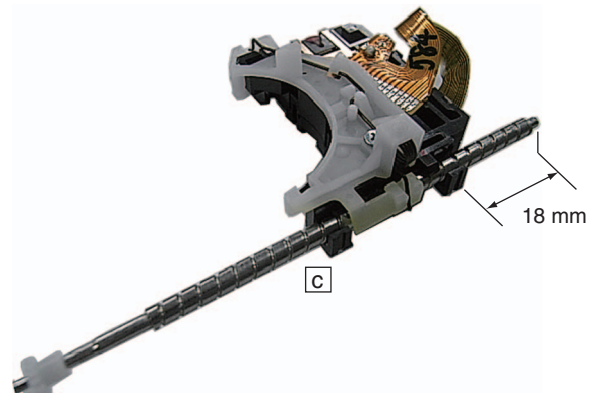


Fig. 5

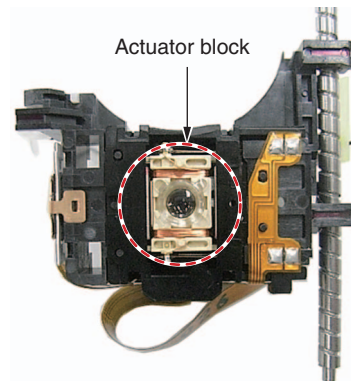
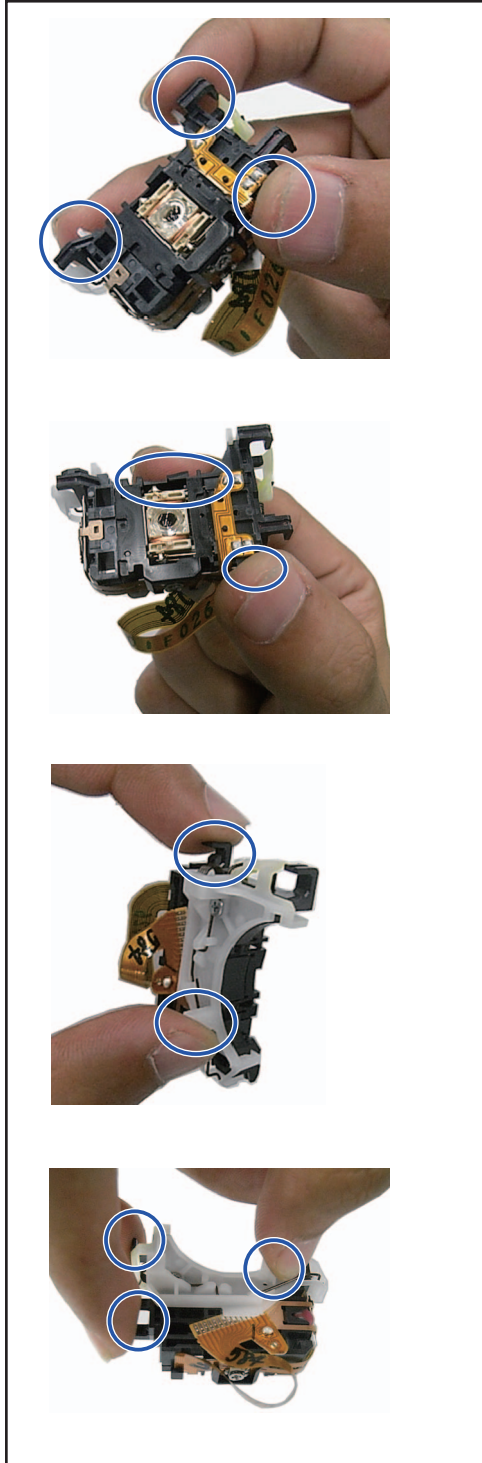


Fig. 6

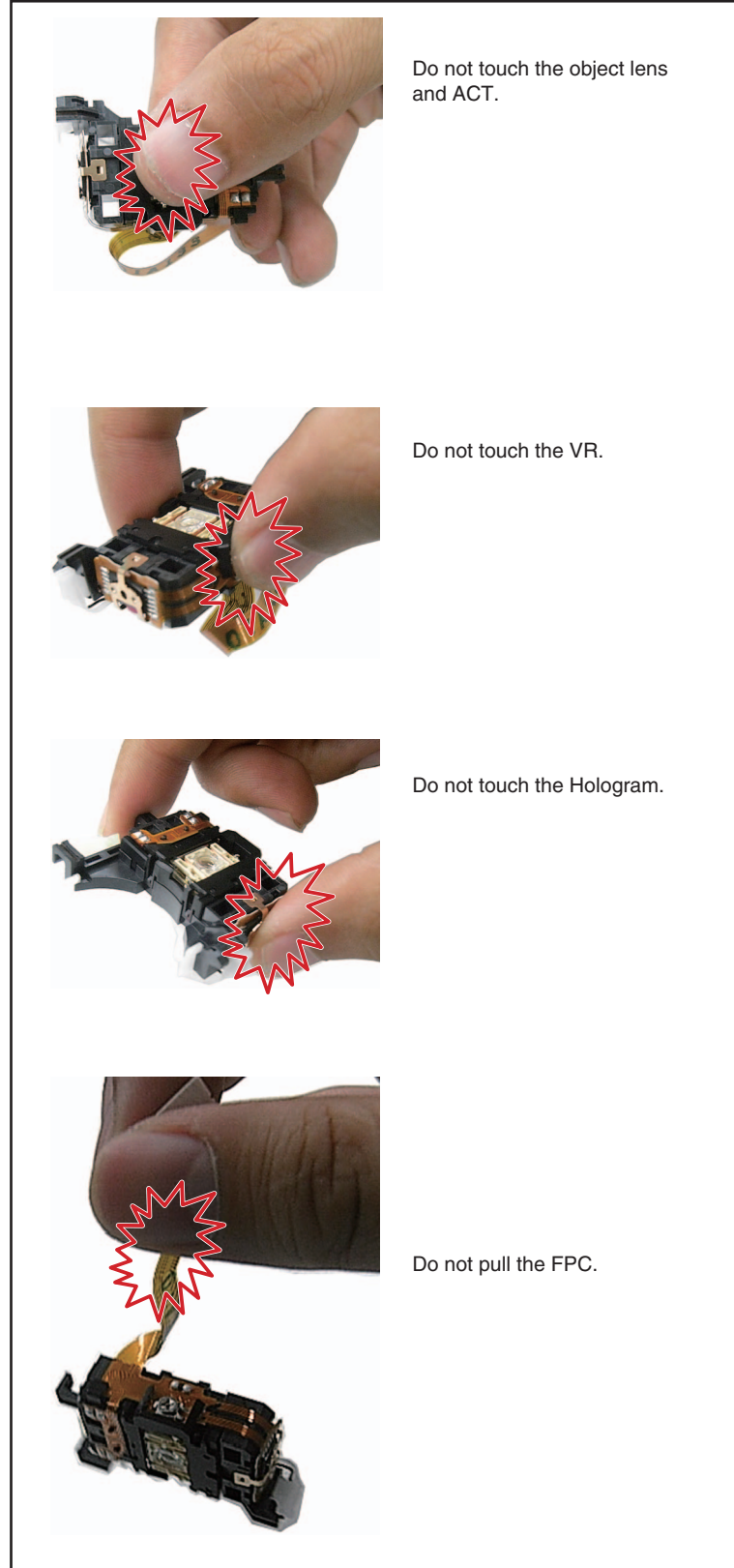
A ● How to Hold the PU

1. Be sure to hold the PU at the positions shown in "Proper handling." NEVER hold it as shown in "Improper handling."

Proper handling



Improper handling



8. EACH SETTING AND ADJUSTMENT

8.1 CD ADJUSTMENT

1) Cautions on adjustments

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

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

a. Do not mix up the REFO1 with the GND when connecting the (-) probe of measuring instruments. Especially on an oscilloscope, avoid connecting the (-) probe for CH1 to the GND.

b. In many cases, measuring instruments have the same potential as that for the (-) probe. Be sure to set the measuring instruments to the floating state.

c. If you have mistakenly connected the REFO1 to the GND, turn off the regulator or the power immediately.

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

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

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

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

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

2) Test mode

This mode is used to adjust the CD mechanism module.

- To enter the test mode.

[3] + [DISP] -> Reset

- To exit from the test mode.

Turn off the ACC and back up.

Notes:

a. During ejection, do not press any other keys than the EJECT key until the loaded disc is ejected.

b. If you have pressed the (→) key or (←) key during focus search, turn off the power immediately to protect the actuator from damage caused by the lens stuck.

c. For the TR jump modes except 100TR, the track jump operation will continue even if the key is released.

d. For the CRG move and 100TR jump modes, the tracking loop will be closed at the same time when the key is released.

e. When the power is turned off and on, the jump mode is reset to the single TR (91), the RF amp gain is set to 0 dB, and the auto-adjustment values are reset to the default settings.

When a CD-DA (regular music CD) is played in the CD test mode, its sound quality will be temporarily deteriorated. The CD will then repeat normal, deteriorated, normal... playback.

This is due to the difference in the playback modes between the normal operation mode and the CD test mode, and the interval of generating deteriorated mode and the time taken to return to the normal mode depend on the error of each clock.

The time taken to turn to the deteriorated mode is at a minimum around 20 seconds while the time to return to the normal mode is maximum 40 seconds approximately. Make sure to check the sound quality in the normal operation mode.

8.2 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT



• Note :

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

• Purpose :

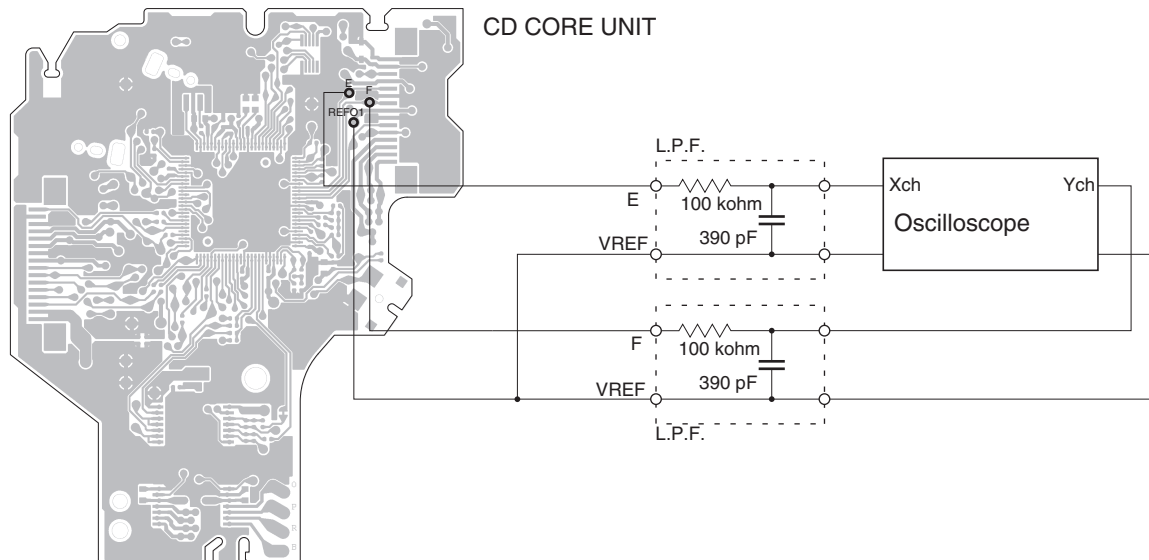
To check that the grating is within an acceptable range when the PU unit is changed.

• Symptoms of Mal-adjustment :

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

• Method :

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



• Checking Procedure

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

• Note

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

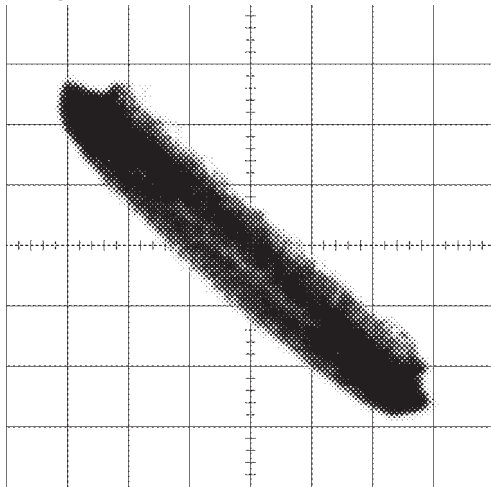
• Hint

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

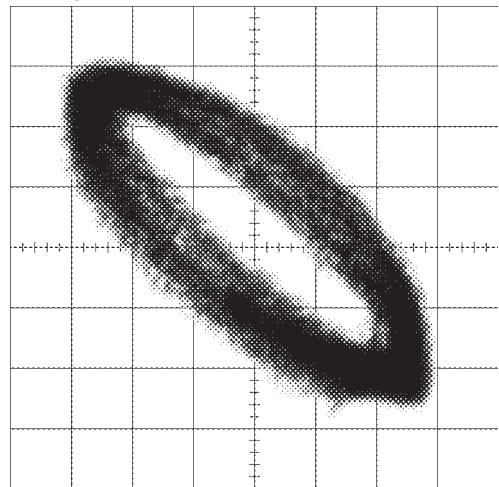
Grating waveform

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

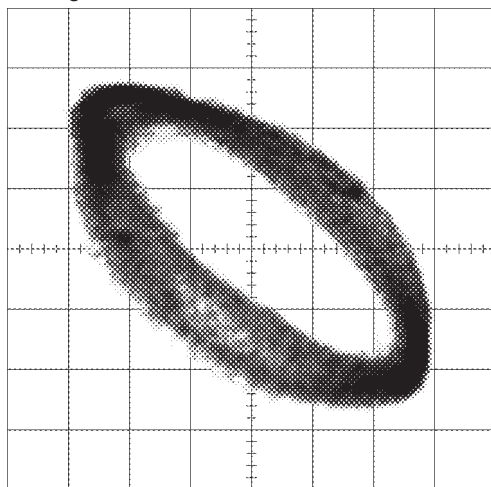
0 degrees



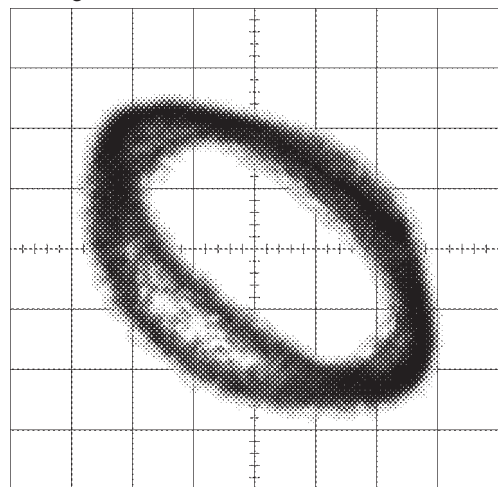
30 degrees



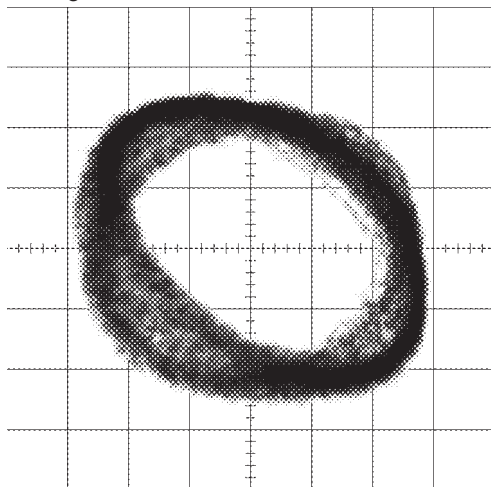
45 degrees



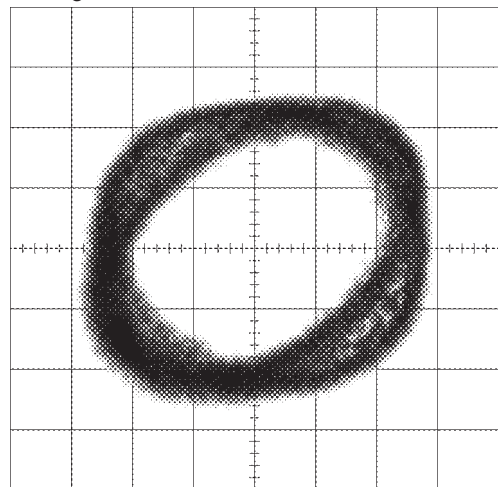
60 degrees



75 degrees



90 degrees



A

B

C

D

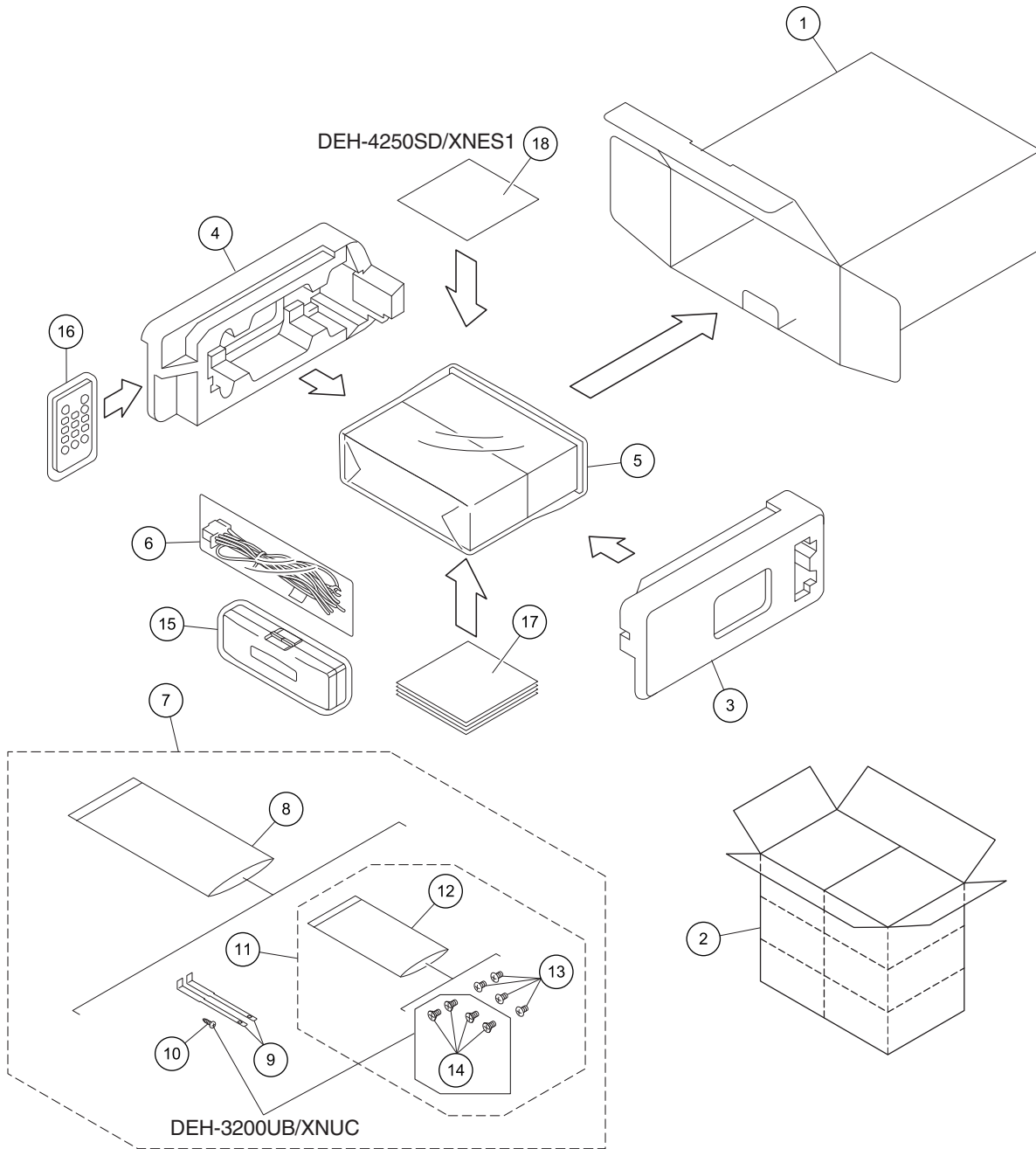
E

F

9. EXPLODED VIEWS AND PARTS LIST

NOTES : • Parts marked by " * " are generally unavailable because they are not in our Master Spare Parts List.
• The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
• Screw adjacent to ▽ mark on the product are used for disassembly.
• For the applying amount of lubricants or glue, follow the instructions in this manual.
(In the case of no amount instructions, apply as you think it appropriate.)

9.1 PACKING



PACKING SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Unit Box	See Contrast table (2)	*	12 Polyethylene Bag	CEG-127
2	Contain Box	See Contrast table (2)		13 Screw	TRZ50P080FTC
3	Protector	See Contrast table (2)		14 Screw	See Contrast table (2)
4	Protector	See Contrast table (2)		15 Case Assy	See Contrast table (2)
5	Polyethylene Bag	See Contrast table (2)		16 Remote Control Unit	CXE2758
6	Cord Assy	YDP5039		17-1 Owner's Manual	See Contrast table (2)
7	Accessory Assy	See Contrast table (2)		17-2 Installation Manual	See Contrast table (2)
8	Polyethylene Bag	CEG1160	*	17-3 Warranty Card	See Contrast table (2)
9	Handle	CND3707	*	17-4 Service Network	See Contrast table (2)
10	Screw	See Contrast table (2)	*	18 Service Network	See Contrast table (2)
11	Screw Assy	See Contrast table (2)			

(2) CONTRAST TABLE

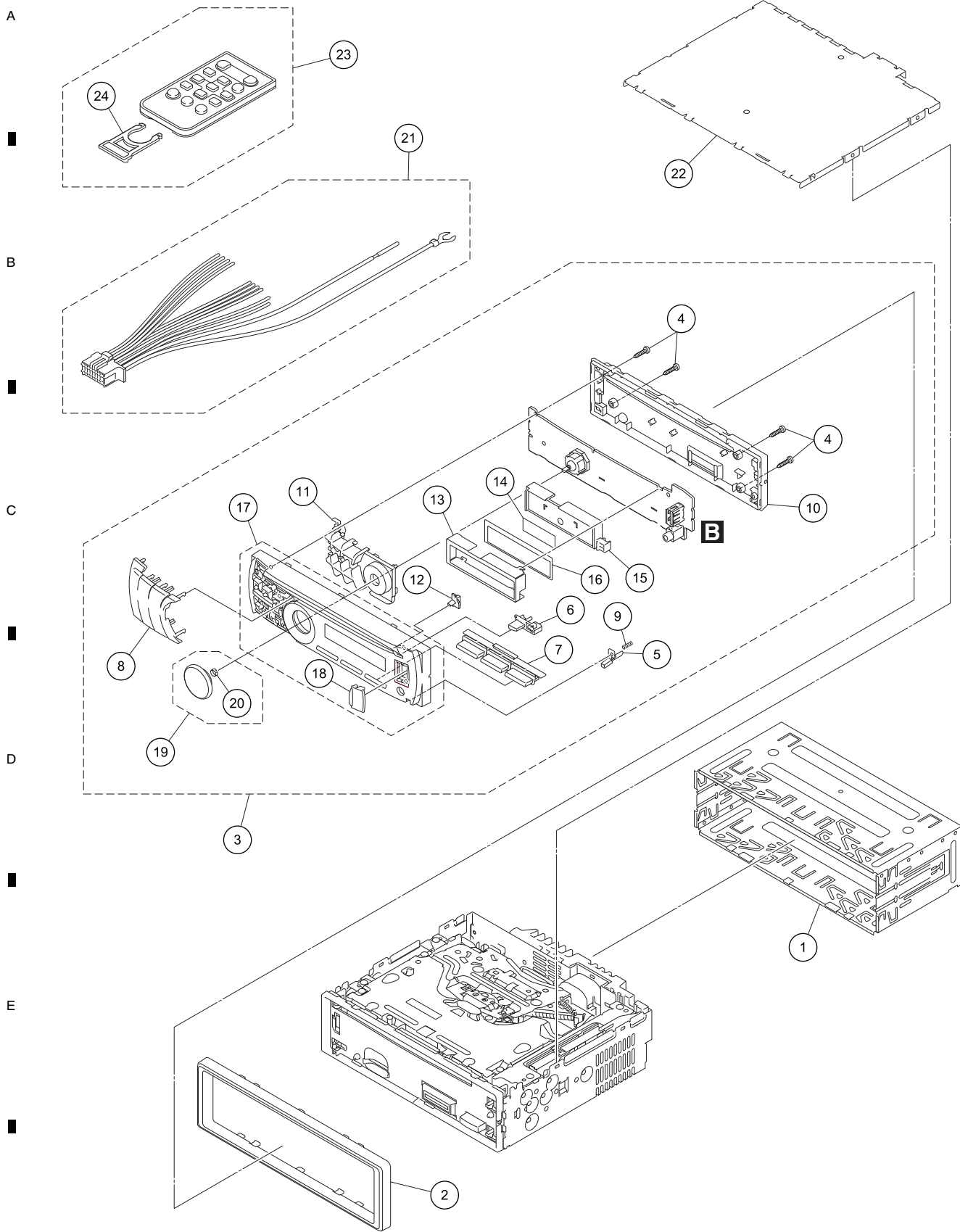
DEH-4250SD/XNES, DEH-4250SD/XNES1, DEH-4290SD/XNID and DEH-3200UB/XNUC are constructed the same except for the following:

Mark	No.	Description	DEH-4250SD/XNES	DEH-4250SD/XNES1	DEH-4290SD/XNID	DEH-3200UB/XNUC
	1	Unit Box	CHG7062	CHG7063	CHG7064	CHG7118
	2	Contain Box	CHL7062	CHL7063	CHL7064	CHL7118
	3	Protector	CHP3931	CHP3931	CHP3931	CHP3941
	4	Protector	CHP3932	CHP3932	CHP3932	CHP3942
	5	Polyethylene Bag	QEG3001	QEG3001	QEG3001	CEG1173
	7	Accessory Assy	YEA5084	YEA5084	YEA5084	*YEA5071
	10	Screw	Not Used	Not Used	Not Used	BPZ20P060FTC
	11	Screw Assy	YEA5082	YEA5082	YEA5082	YEA5072
	14	Screw	Not Used	Not Used	Not Used	CRZ50P090FTC
	15	Case Assy	YXB5009	YXB5009	YXB5009	Not Used
	17-1	Owner's Manual	CRD4434	CRD4434	CRB3094	CRD4457
	17-2	Installation Manual	CRD4437	CRD4437	Not Used	CRD4458
*	17-3	Warranty Card	Not Used	CRY1250	CRY1304	CRY1276
*	17-4	Service Network	Not Used	Not Used	CRY1305	Not Used
*	18	Service Network	Not Used	CRY1251	Not Used	Not Used

Owner's Manual, Installation Manual

Part No.	Language
CRD4434	English, Spanish(Espanol), Portuguese(B), Traditional Chinese, Arabic
CRD4437	English, Spanish(Espanol), Portuguese(B), Traditional Chinese, Arabic
CRB3094	English
CRD4457	English, French, Spanish(Espanol)
CRD4458	English, French, Spanish(Espanol)

9.2 EXTERIOR(1)



EXTERIOR(1) 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	Holder	CND3598	13	Holder	CND5407
2	Panel	CNU1016	14	Double Side Tape	CNN1878
3	Detach Grille Assy	See Contrast table (2)	15	Holder	CNW1754
4	Screw	BPZ20P100FTC			
5	Button(DETACH)	CAI2688	16	OEL Module	See Contrast table (2)
			17	Grille Unit	See Contrast table (2)
6	Button(EJECT)	CAI2689	18	Door(USB)	CAT2911
7	Button(1-6)	CAI2690	19	Knob Unit	CXE2417
8	Button (SRC, BAND, S.Rtrv, CLK, LIST, BACK)	See Contrast table (2)	20	Spring	XBL7005
9	Spring	CBH2210	21	Cord Assy	YDP5039
10	Cover	CNU1012	22	Case	YNB5063
			23	Remote Control Unit	CXE2758
11	Lighting Conductor	CNW1752	24	Cover	CNS7068
12	Lighting Conductor	CNW1753			

(2) CONTRAST TABLE

DEH-4250SD/XNES, DEH-4250SD/XNES1, DEH-4290SD/XNID and DEH-3200UB/XNUC are constructed the same except for the following:

<u>Mark</u>	<u>No.</u>	<u>Description</u>	<u>DEH-4250SD/XNES</u>	<u>DEH-4250SD/XNES1</u>	<u>DEH-4290SD/XNID</u>	<u>DEH-3200UB/XNUC</u>
	3	Detach Grille Assy	CXE2428	CXE2428	CXE2429	CXE3006
	8	Button(SRC, BAND, S.Rtrv, CLK, LIST, DISP)	CAI2692	CAI2692	CAI2692	CAI2713
	16	OEL Module	MXS4012	MXS4012	MXS4012	MXS4013
	17	Grille Unit	CXE2410	CXE2410	CXE2412	CXE2413

9.3 EXTERIOR(2)

A

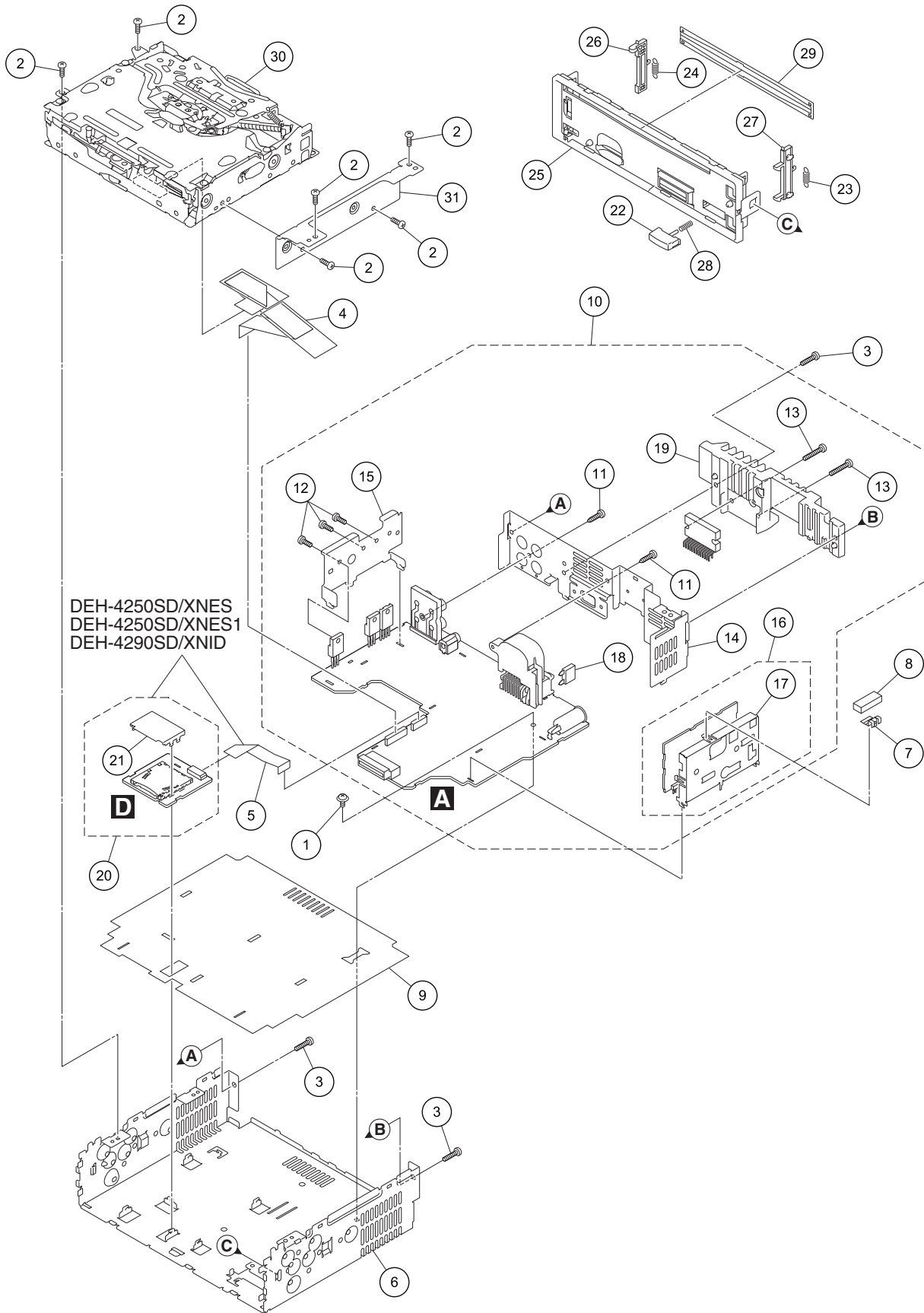
B

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EXTERIOR(2) SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Screw	ASZ26P050FTC	17	Holder	CND4324
2	Screw	BSZ26P060FTC	⚠ 18	Fuse(10 A)	YEK5001
3	Screw	BSZ26P100FTC	19	Heat Sink	YNR5139
4	Cable	CDE9106	20	SD Unit	See Contrast table (2)
5	Cable	See Contrast table (2)	21	Holder	See Contrast table (2)
6	Chassis	CNA3151	22	Button	CAC4836
7	Earth Plate	CNC8915	23	Spring(Thin)	CBH2961
8	Cushion	CNM8890	24	Spring(Thick)	CBH2962
9	Insulator	CNN3145	25	Panel	See Contrast table (2)
10	Tuner Amp Unit	See Contrast table (2)	26	Arm	CNV9312
11	Screw	BPZ26P080FTC	27	Arm	CNW1439
12	Screw	BSZ26P060FTC	28	Spring	YBH5012
13	Screw	BSZ26P160FTC	29	Cover	YNN5030
14	Holder	CND5411	30	CD Mechanism Module(S11)	CXK5800
15	Holder	CND5423	31	Holder	YND5048
16	FM/AM Tuner Unit	CWE2098			

(2) CONTRAST TABLE

DEH-4250SD/XNES, DEH-4250SD/XNES1, DEH-4290SD/XNID and DEH-3200UB/XNUC are constructed the same except for the following:

Mark	No.	Description	DEH-4250SD/XNES	DEH-4250SD/XNES1	DEH-4290SD/XNID	DEH-3200UB/XNUC
	5	Cable	CDE9107	CDE9107	CDE9107	Not Used
	10	Tuner Amp Unit	CWN4805	CWN4805	CWN4805	CWN5219
	20	SD Unit	CWN4816	CWN4816	CWN4816	Not Used
	21	Holder	CND5417	CND5417	CND5417	Not Used
	25	Panel	CNU1015	CNU1015	CNU1015	CNU1017

9.4 CD MECHANISM MODULE

A

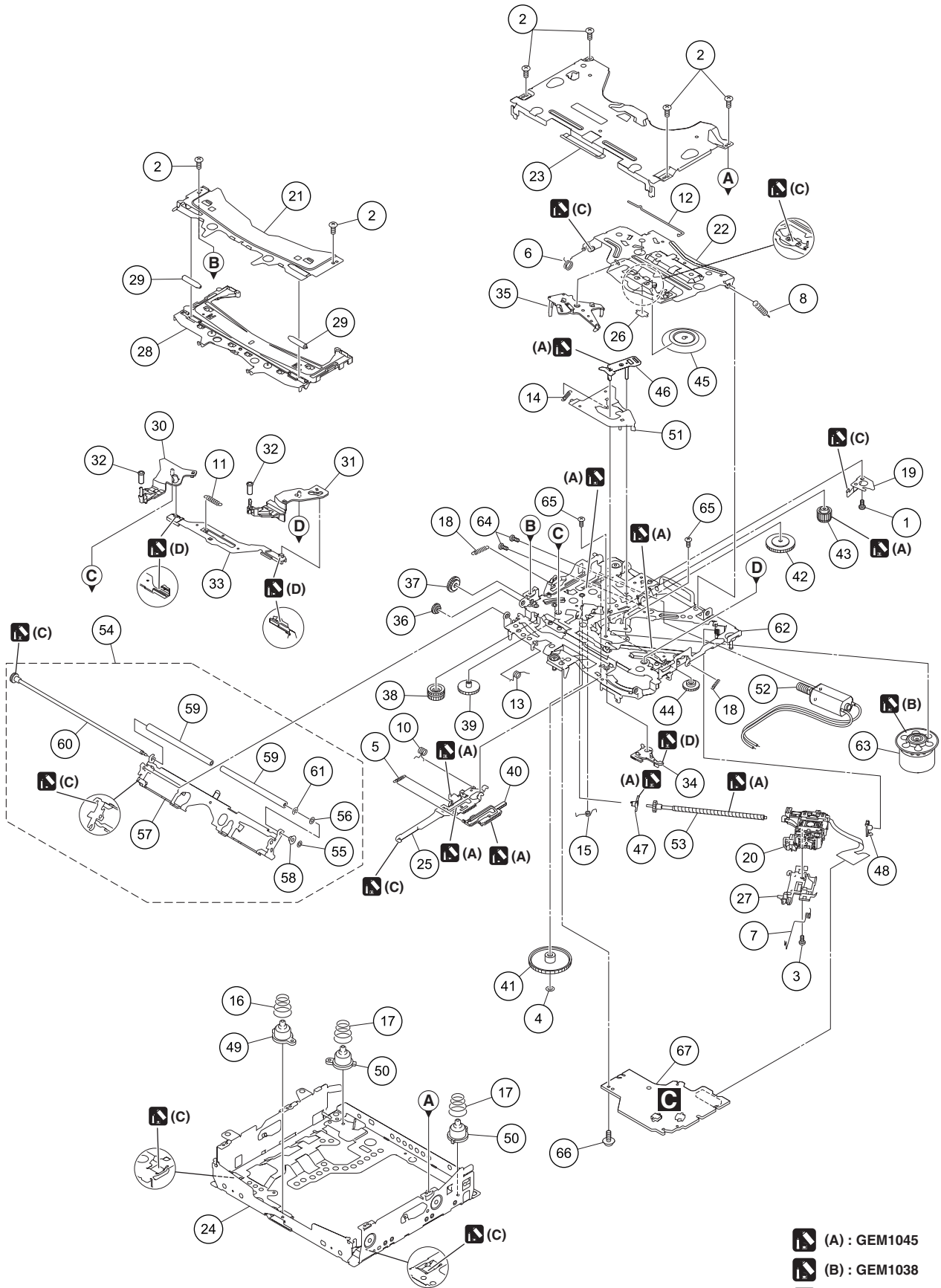
B





C

D

E

F



-  (A) : GEM1045
-  (B) : GEM1038
-  (C) : GEM1024
-  (D) : GEM1043

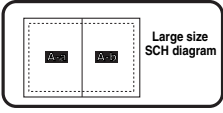
5 6 7 8
CD MECHANISM MODULE SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Screw	BMZ20P020FTC	50	Damper	CNW1198
2	Screw	BSZ20P040FTC			
3	Screw(M2 x 4)	CBA1835	51	Arm	CNW1726
4	Washer	CBF1038	52	Motor Unit(M2)(LOAD/CRG)	CXC4026
5	Spring	CBH3010	53	Screw Unit	CXC8894
			54	Arm Assy	CXC8896
6	Spring	CBH2855	55	Washer	CBF1037
7	Spring	CBH2856			
8	Spring	CBH2860	56	Washer	CBF1038
9		57	Arm	CND4554
10	Spring	CBH3011	58	Collar	CNV6906
			59	Roller	CNW1196
11	Spring	CBH3012	60	Gear Unit	CXC8893
12	Spring	CBH3014			
13	Spring	CBH3015	61	Washer	YE15FTC
14	Spring	CBH3016	62	Chassis Unit	CXE1946
15	Spring	CBH3017	63	Motor Unit(M1)(SPDL)	CXE2273
			64	Screw	JFZ20P025FTC
16	Spring	CBH3018	65	Screw	JGZ17P022FTC
17	Spring	CBH3019			
18	Spring	CBH3020	66	Screw	IMS20P030FTC
19	Spring	CBL1797	67	CD Core Unit (S11STD-DOUT)	CWX3774
20	Pickup Unit(S10.5)(Service)	CXX1942			
21	Bracket	CND4553			
22	Arm	CND4555			
23	Frame	CND4557			
24	Frame	CND5217			
25	Lever	CND5398			
26	Sheet	CNN2280			
27	Rack	CNV8342			
28	Guide	CNW1171			
29	Roller	CNW1172			
30	Arm	CNW1173			
31	Arm	CNW1174			
32	Roller	CNW1175			
33	Lever	CNW1176			
34	Arm	CNW1177			
35	Arm	CNW1178			
36	Gear	CNW1180			
37	Gear	CNW1181			
38	Gear	CNW1182			
39	Gear	CNW1183			
40	Rack	CNW1184			
41	Gear	CNW1185			
42	Gear	CNW1186			
43	Gear	CNW1187			
44	Gear	CNW1188			
45	Clamper	CNW1190			
46	Arm	CNW1192			
47	Holder	CNW1193			
48	Holder	CNW1194			
49	Damper	CNW1197			

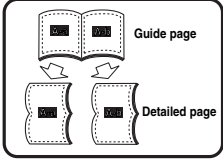
10. SCHEMATIC DIAGRAM

10.1 TUNER AMP UNIT 1/2 [MAIN] (GUIDE PAGE)

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



Large size
SCH diagram

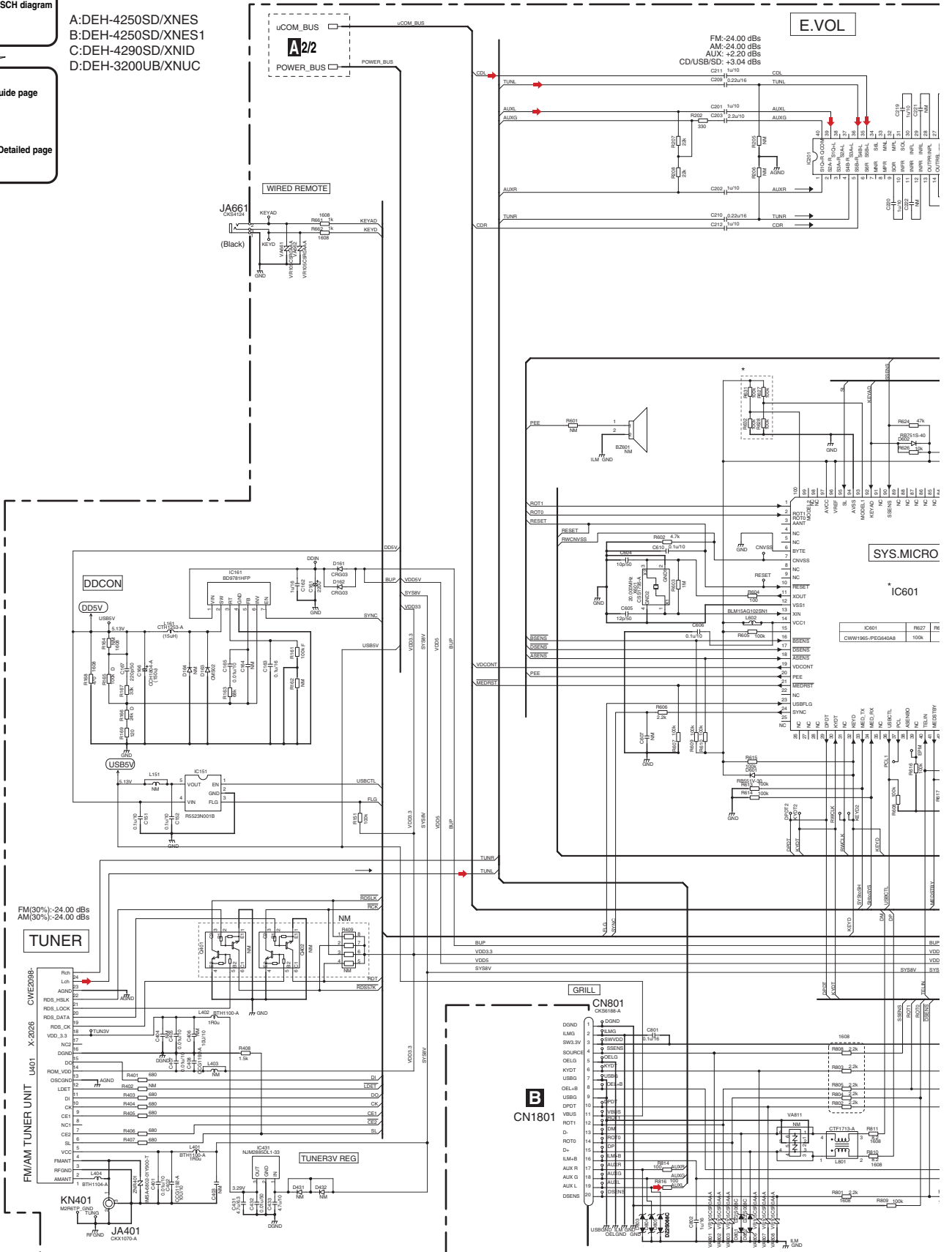


Guide page

Detailed page

A:DEH-4250SD/XNES
B:DEH-4250SD/XNES1
C:DEH-4290SD/XNID
D:DEH-3200UB/XNXC

A-a 1/2



E.VOL

SYS.MICRO

IC601

IC601	RES27	RES
CWV1965-PFES640A8	100K	100K

CN1801

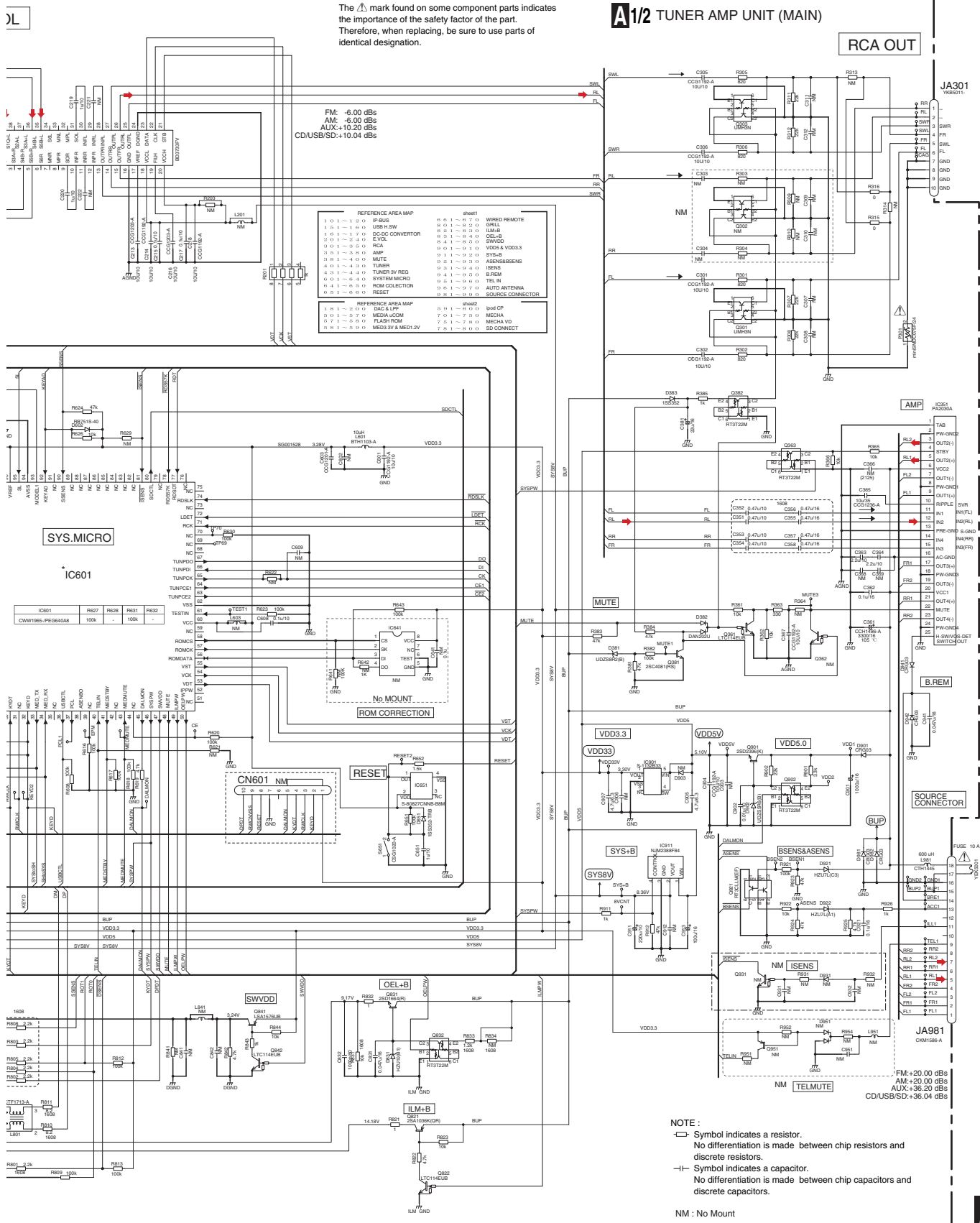
A1/2

DEH-4250SD/XNES

A-b 1/2

A1/2 TUNER AMP UNIT (MAIN)

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.



FM: -6.00 dBs
AM: -6.00 dBs
AUX: +10.20 dBs
CD/USB/SD: +10.04 dBs

REFERENCE AREA MAP		sh46E1	
1.0.1 ~ 1.2.0	IP BUS	0.1.1 ~ 0.2.0	WIRED REMOTE
1.3.1 ~ 1.6.0	USB IN SW	0.3.1 ~ 0.3.2	DIRLL
1.7.1 ~ 1.7.0	DC-DC CONVERTOR	0.4.1 ~ 0.4.0	ILM
1.8.1 ~ 2.0.0	EVCU	0.5.1 ~ 0.5.0	DELLB
2.1.1 ~ 2.3.0	RCA	0.6.1 ~ 0.6.0	SWDSD
2.4.1 ~ 2.4.0	MUTE	0.7.1 ~ 0.7.0	VDD5 & VDD3.3
2.5.1 ~ 2.5.0	AMP	0.8.1 ~ 0.8.0	SY8B
2.6.1 ~ 2.6.0	TUNER	0.9.1 ~ 0.9.0	ISENS
2.7.1 ~ 2.8.0	TUNER SW REG	1.0.1 ~ 1.0.0	ASENS&SENS
2.9.1 ~ 2.9.0	SYSTEM MICRO	1.1.1 ~ 1.1.0	TEL IN
3.0.1 ~ 3.0.0	ROM COLLECTION	1.2.1 ~ 1.2.0	AUTO ANTENNA
3.1.1 ~ 3.1.0	RESET	1.3.1 ~ 1.3.0	SOURCE CONNECTOR

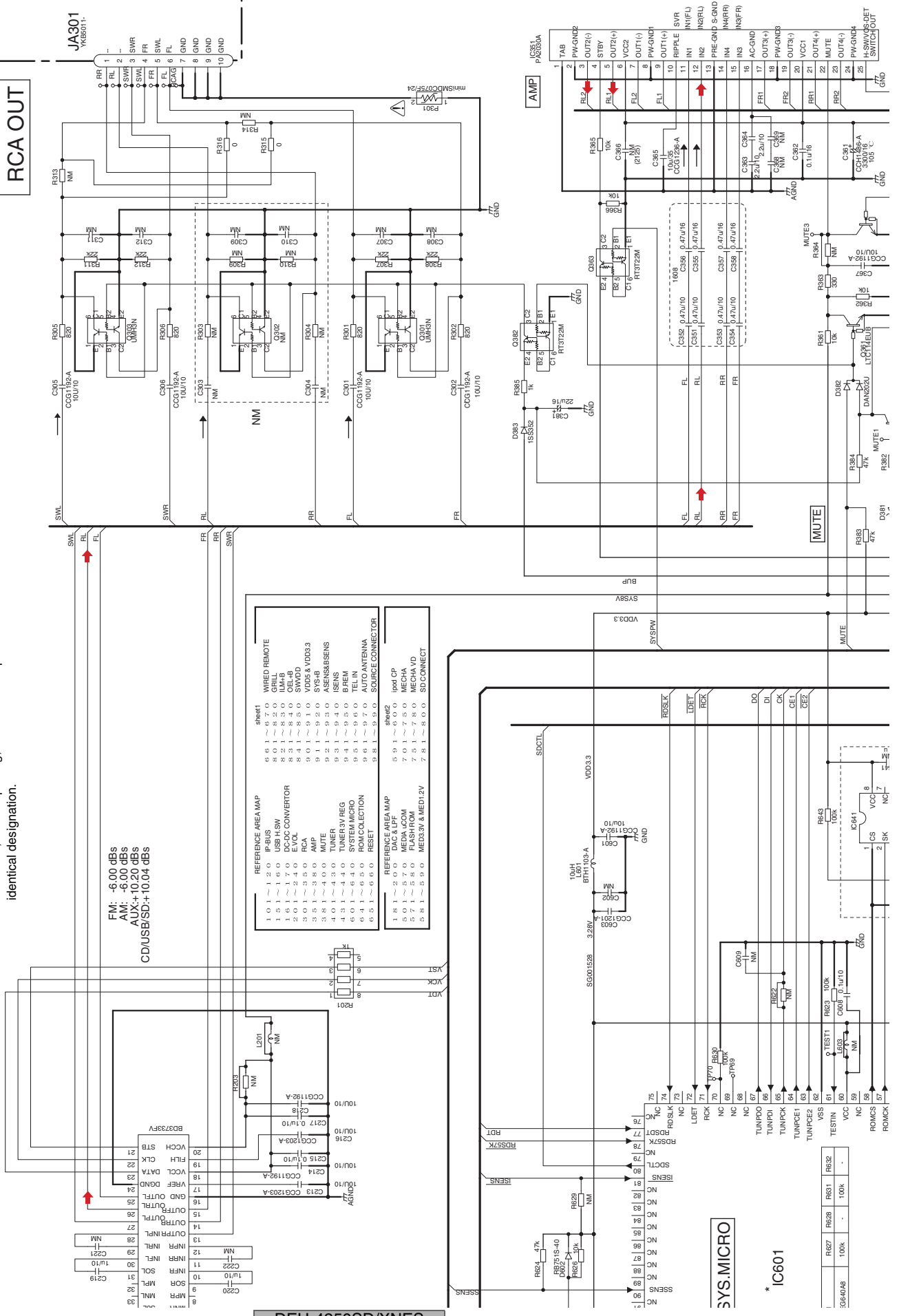
REFERENCE AREA MAP		sh46E2	
1.0.1 ~ 2.0.0	DACK LUPF	0.1.1 ~ 0.1.0	800 GP
2.1.1 ~ 2.7.0	MEDIA UCCM	7.0.1 ~ 7.0.0	MECHA
2.8.1 ~ 2.9.0	FLASH ROM	7.1.1 ~ 7.1.0	MECHA YD
3.0.1 ~ 3.0.0	MEDIA 3V & MEDIA 2V	7.2.1 ~ 7.2.0	SD CONNECT

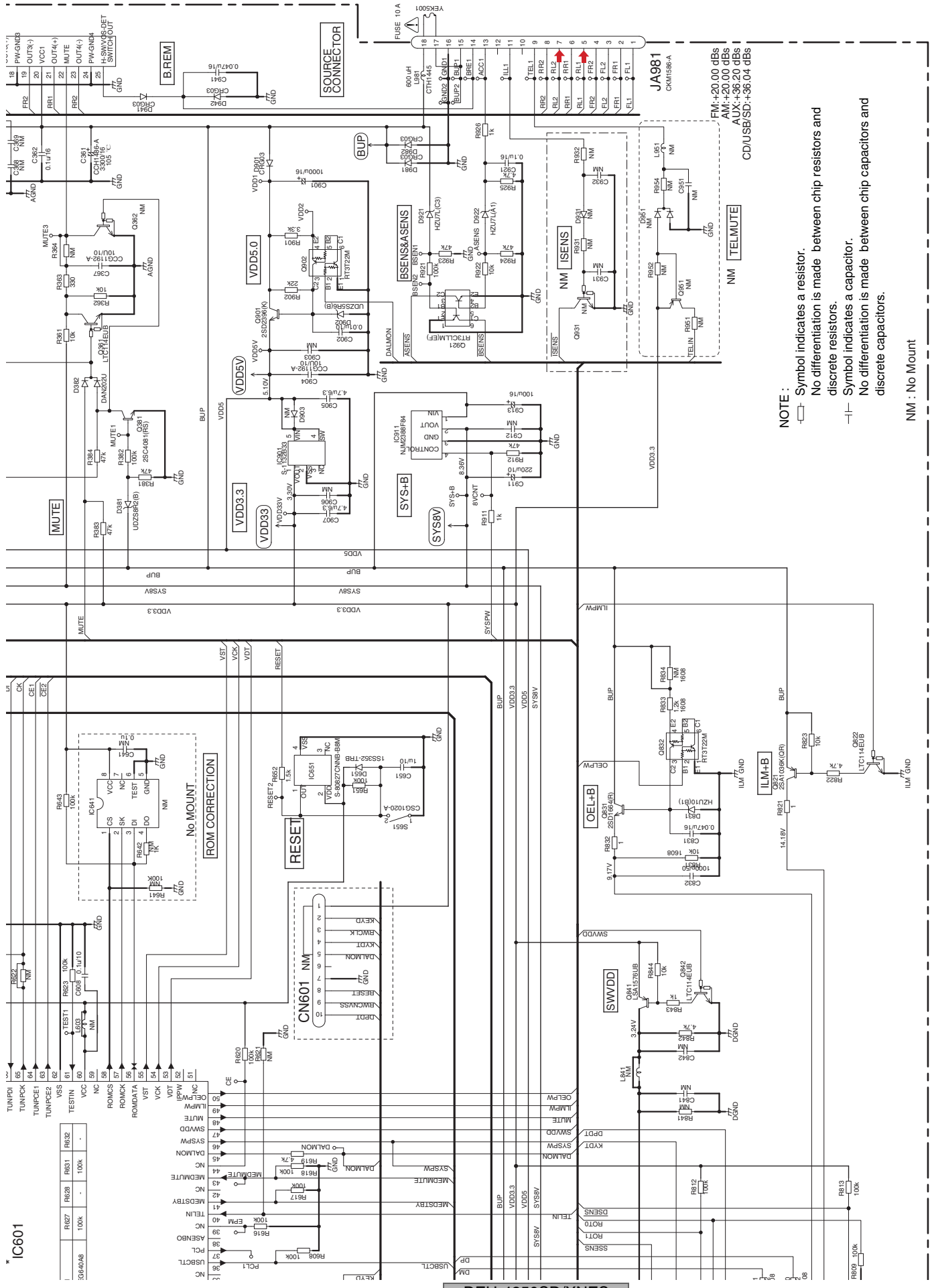
NOTE:
 □ Symbol indicates a resistor.
 No differentiation is made between chip resistors and discrete resistors.
 —|— Symbol indicates a capacitor.
 No differentiation is made between chip capacitors and discrete capacitors.

NM : No Mount

A1/2 TUNER AMP UNIT (MAIN)

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.





NOTE :
 [Resistor symbol] Symbol indicates a resistor.
 No differentiation is made between chip resistors and discrete resistors.
 [Capacitor symbol] Symbol indicates a capacitor.
 No differentiation is made between chip capacitors and discrete capacitors.

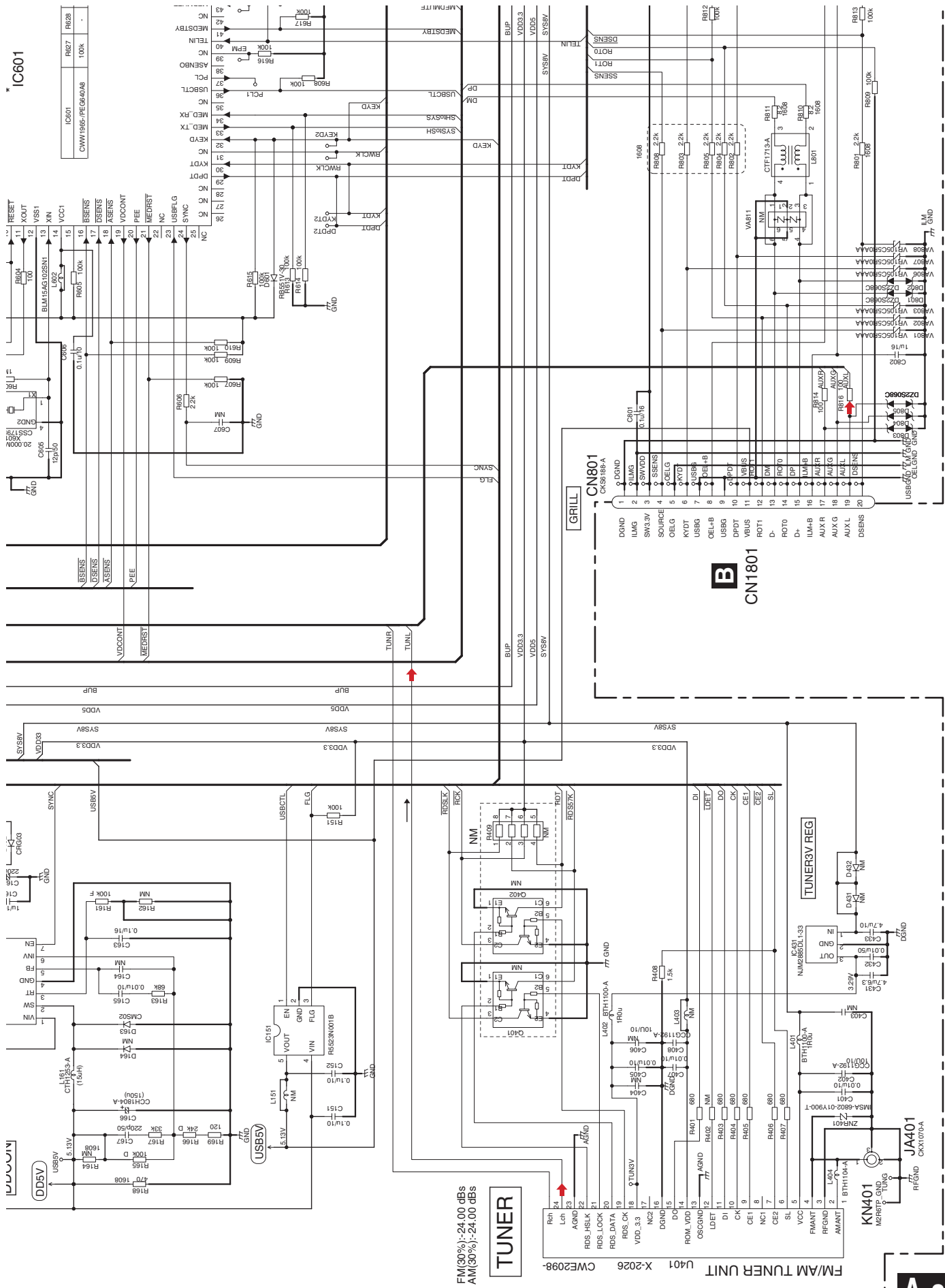
NM : No Mount

A-a A-b

D

E

A-b 1/2



A-b 1/2

A-a

A-a 1/2

10.2 TUNER AMP UNIT 2/2 [MEDIA Ucom] (GUIDE PAGE)

A-a 2/2

A

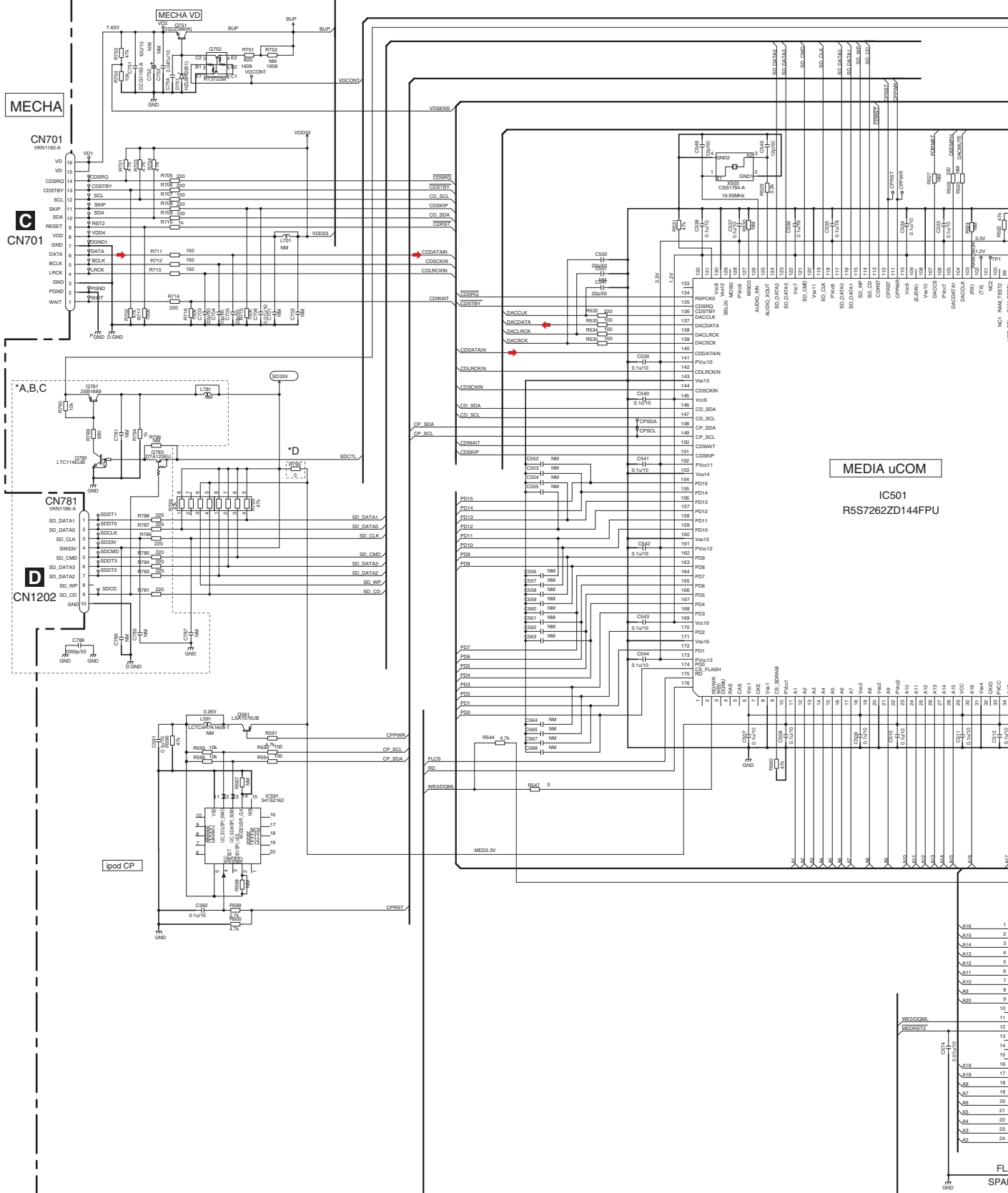
B

C

D

E

F

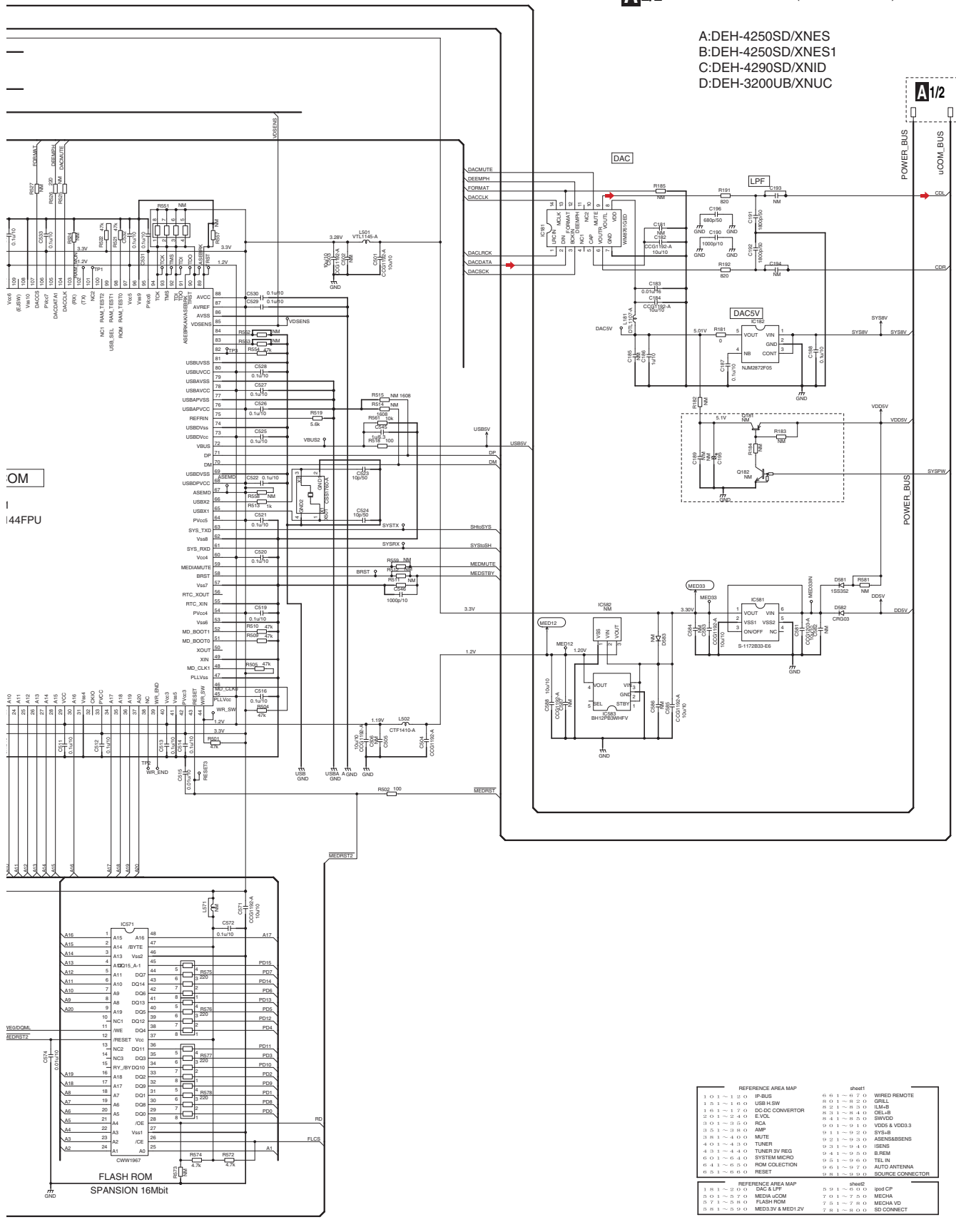


A2/2

A-b 2/2

A/2 TUNER AMP UNIT (MEDIA uCOM)

A:DEH-4250SD/XNES
 B:DEH-4250SD/XNES1
 C:DEH-4290SD/XNID
 D:DEH-3200UB/XNXC



OM

I 144FPU

VEGOMAL

RECRST7

FLASH ROM

SPANSION 16Mbit

IC581

IC582

IC583

IC584

IC585

IC586

IC587

IC588

IC589

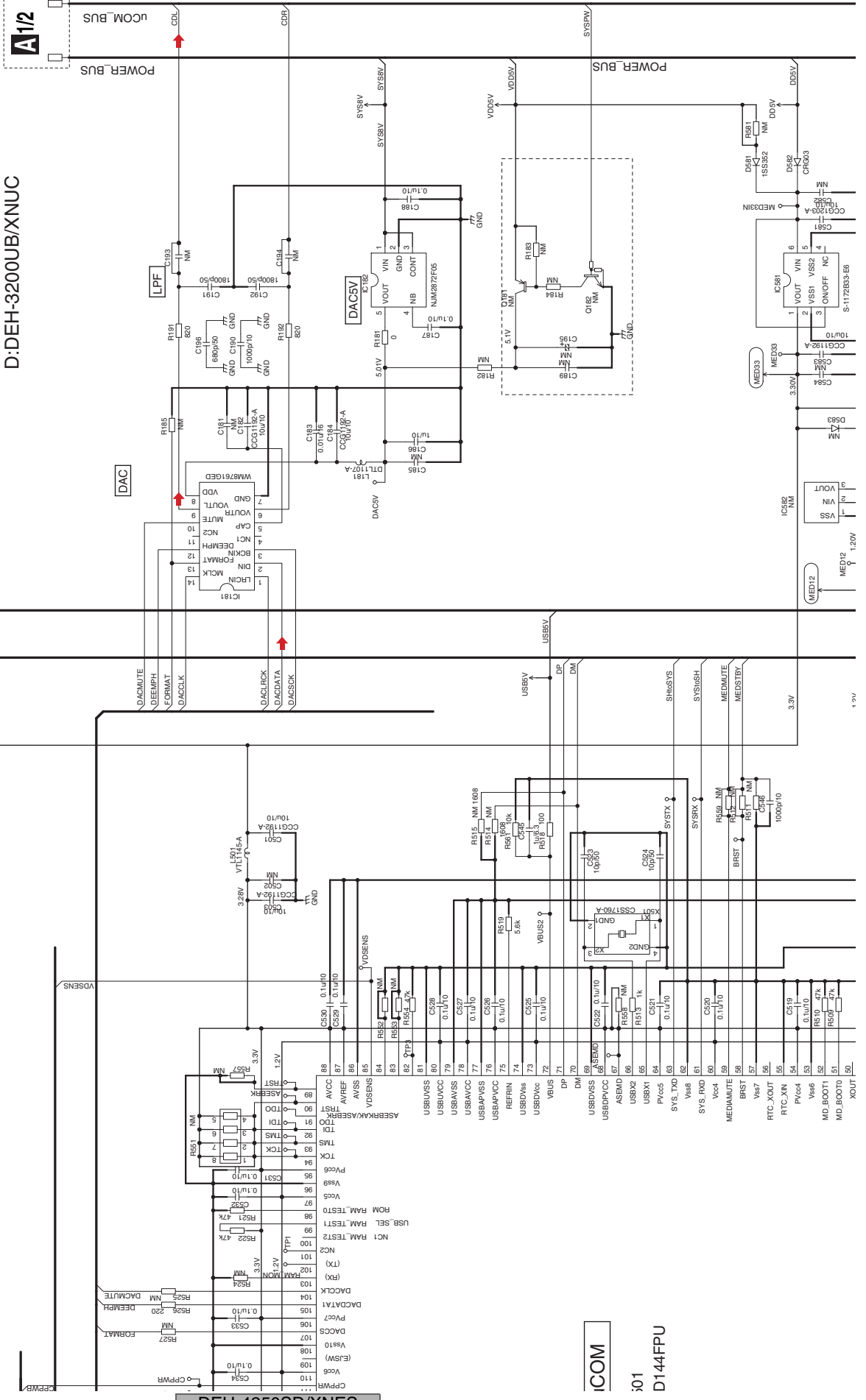
IC590

REFERENCE AREA MAP	sheet1
1 0 1 ~ 1 5 0	IP-BUS
1 5 1 ~ 1 6 0	USB H SW
1 6 1 ~ 1 7 0	DCDC CONVERTOR
1 7 1 ~ 2 4 0	EVOL
2 4 1 ~ 2 5 0	REGA
2 5 1 ~ 3 0 0	AMP
3 0 1 ~ 4 0 0	MUTE
4 0 1 ~ 4 3 0	TUNER
4 3 1 ~ 4 4 0	TUNER 3V REG
4 4 1 ~ 4 5 0	SYSTEM MCHG
4 5 1 ~ 4 6 0	ROM COLLECTION
4 6 1 ~ 4 6 0	RESET
4 6 1 ~ 4 7 0	WIRED REMOTE
4 7 1 ~ 4 8 0	SPILL
4 8 1 ~ 4 9 0	ILMAB
4 9 1 ~ 5 0 0	SEL-IB
5 0 1 ~ 5 1 0	SWVDD
5 1 1 ~ 5 2 0	VDD5 & VDD3.3
5 2 1 ~ 5 3 0	SYSS
5 3 1 ~ 5 4 0	ASENS&SENS
5 4 1 ~ 5 5 0	ISENS
5 5 1 ~ 5 6 0	BLREM
5 6 1 ~ 5 7 0	TEL IN
5 7 1 ~ 5 8 0	AUTO ANTENNA
5 8 1 ~ 5 9 0	SOURCE CONNECTOR

REFERENCE AREA MAP	sheet2
1 8 1 ~ 2 0 0	ENC LFP
2 0 1 ~ 2 1 0	MEDIA uCOM
2 1 1 ~ 2 2 0	FLASH ROM
2 2 1 ~ 2 3 0	MEDIA 3V & MEDIA 2V
2 3 1 ~ 2 4 0	iPod CP
2 4 1 ~ 2 5 0	MECHA
2 5 1 ~ 2 6 0	MECHA VD
2 6 1 ~ 2 7 0	SD CONNECT

A2/2 TUNER AMP UNIT (MEDIA uCOM)

- A: DEH-4250SD/XNES
- B: DEH-4250SD/XNES1
- C: DEH-4290SD/XNID
- D: DEH-3200UB/XNUC



A1/2

DAC

DACSV

IC181

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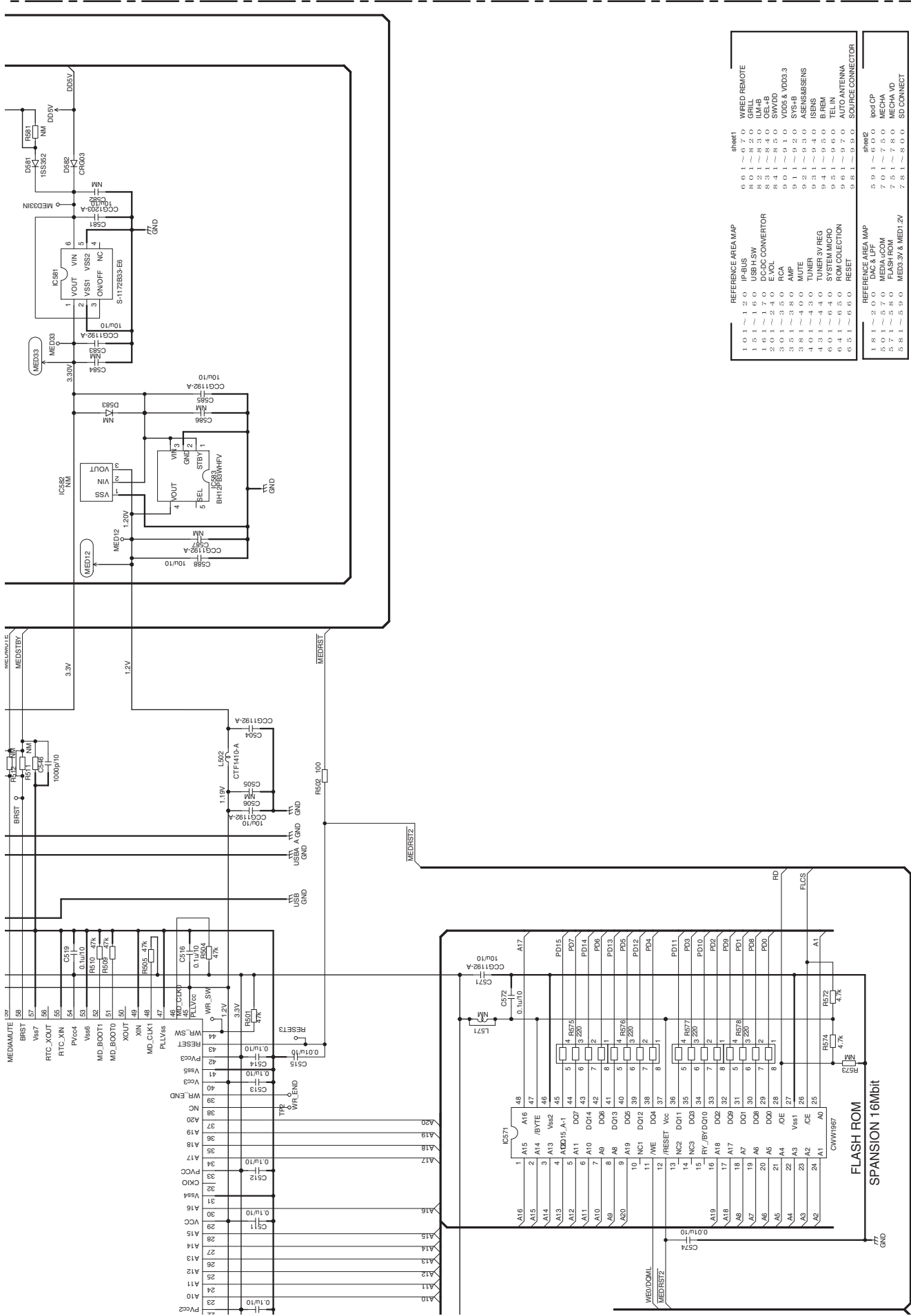
IC465

IC466

IC467

IC468

IC469



REFERENCE AREA MAP	sheet
1.01~1.20	IP-SBUS
1.81~1.90	IP-SBUS
1.91~2.00	DC/DC CONVERTOR
2.01~2.40	E.VOL
3.01~3.50	RCA
3.51~3.80	AMP
3.81~4.00	MUTE
4.01~4.30	TUNER
4.31~4.40	SYSTEM MICRO
4.41~4.50	SYSTEM MICRO
4.51~4.60	ROM COLLECTION
4.61~4.70	RESET
4.71~4.80	RESET
4.81~4.90	RESET
4.91~5.00	RESET
5.01~5.10	RESET
5.11~5.20	RESET
5.21~5.30	RESET
5.31~5.40	RESET
5.41~5.50	RESET
5.51~5.60	RESET
5.61~5.70	RESET
5.71~5.80	RESET
5.81~5.90	RESET
5.91~6.00	RESET
6.01~6.10	RESET
6.11~6.20	RESET
6.21~6.30	RESET
6.31~6.40	RESET
6.41~6.50	RESET
6.51~6.60	RESET
6.61~6.70	RESET
6.71~6.80	RESET
6.81~6.90	RESET
6.91~7.00	RESET
7.01~7.10	RESET
7.11~7.20	RESET
7.21~7.30	RESET
7.31~7.40	RESET
7.41~7.50	RESET
7.51~7.60	RESET
7.61~7.70	RESET
7.71~7.80	RESET
7.81~7.90	RESET
7.91~8.00	RESET

A-b 2/2

A-a A-b

A

B

C

D

E

F

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A

B

C

D

E

F

A-b 2/2

A-a A-b

A-a 2/2

DEH-4250SD/XNES

The schematic diagram illustrates the electrical connections between several integrated circuits (ICs) and various components on the DEH-4250SD/XNES circuit board. The components and their connections are as follows:

- MECHA:** A connector block with pins for VDD33, VDD3, and VDD. It is connected to the VDD pins of ICs CN701 and CN781.
- CN701 (VKN1193-A):** A multi-pin connector with pins for VDD, VDD33, CD_SCLK, CD_SDATA, CD_SCS, SKP, SDA, SCL, RESET, VDD, GND, DATA, BCLK, LCK, GND, POK, and WAIT. It is connected to the corresponding pins of ICs CN781 and CN1202.
- CN781 (VKN1189-A):** A multi-pin connector with pins for SD_DATA1, SD_DATA0, SD_CLK, SW3V, SD_CMD, SD_DATA3, SD_DATA2, SD_DATA1, SD_DATA0, SD_WP, SD_CD, and GND. It is connected to the SD_* pins of ICs CN701 and CN1202.
- CN1202:** A multi-pin connector with pins for SD_DATA1, SD_DATA0, SD_CLK, SW3V, SD_CMD, SD_DATA3, SD_DATA2, SD_DATA1, SD_DATA0, SD_WP, SD_CD, and GND. It is connected to the SD_* pins of ICs CN701 and CN781.
- IC501 (R5S7262ZD144FFP):** A MEDIA uCOM IC with a wide range of pins including DACLK, DACDATA, VES10, VES11, VES12, VES13, VES14, VES15, VES16, VES17, VES18, VES19, VES20, VES21, VES22, VES23, VES24, VES25, VES26, VES27, VES28, VES29, VES30, VES31, VES32, VES33, VES34, VES35, VES36, VES37, VES38, VES39, VES40, VES41, VES42, VES43, VES44, VES45, VES46, VES47, VES48, VES49, VES50, VES51, VES52, VES53, VES54, VES55, VES56, VES57, VES58, VES59, VES60, VES61, VES62, VES63, VES64, VES65, VES66, VES67, VES68, VES69, VES70, VES71, VES72, VES73, VES74, VES75, VES76, VES77, VES78, VES79, VES80, VES81, VES82, VES83, VES84, VES85, VES86, VES87, VES88, VES89, VES90, VES91, VES92, VES93, VES94, VES95, VES96, VES97, VES98, VES99, VES100. It is connected to various signal lines and power pins.
- Other ICs:** Includes MECHA VD (VDS02881K), MECHA (VDS02881K), and various passive components like resistors (R701-R788) and capacitors (C701-C788).
- Power and Grounding:** The board is powered by 7.68V and 3.3V sources. Grounding is provided through multiple GND pins and connections to the MECHA and CN701 connectors.

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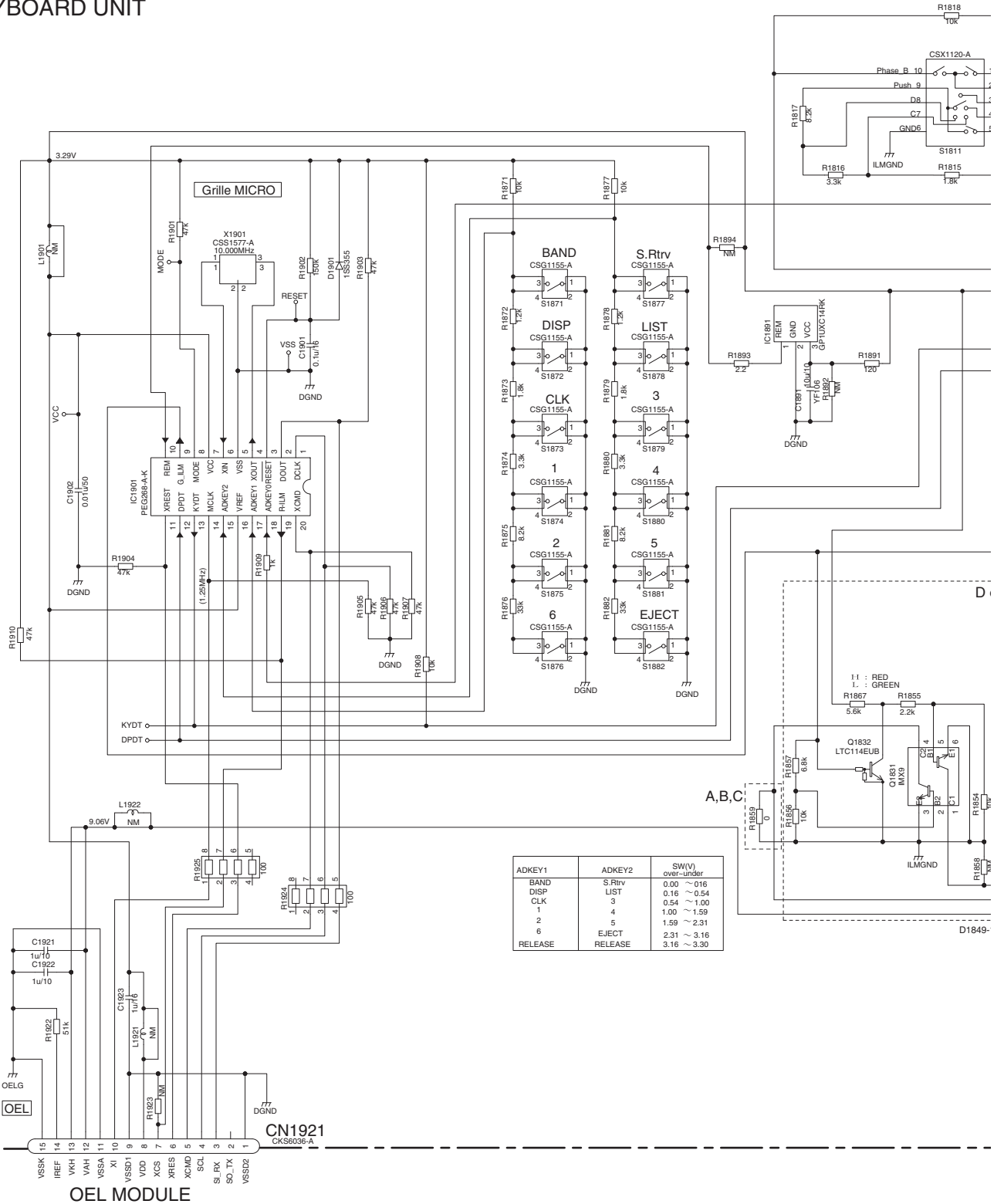
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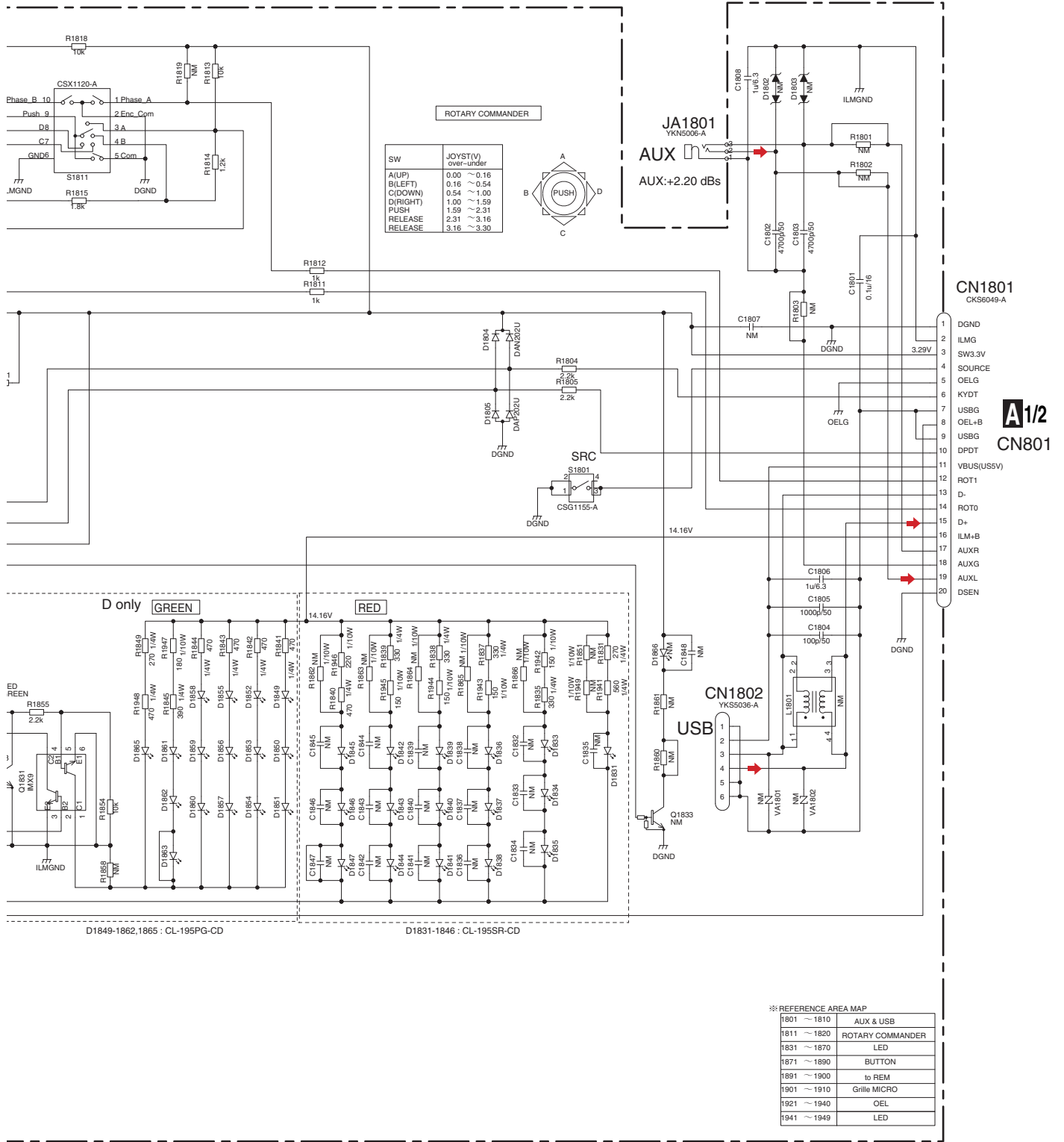
56

10.3 KEYBOARD UNIT

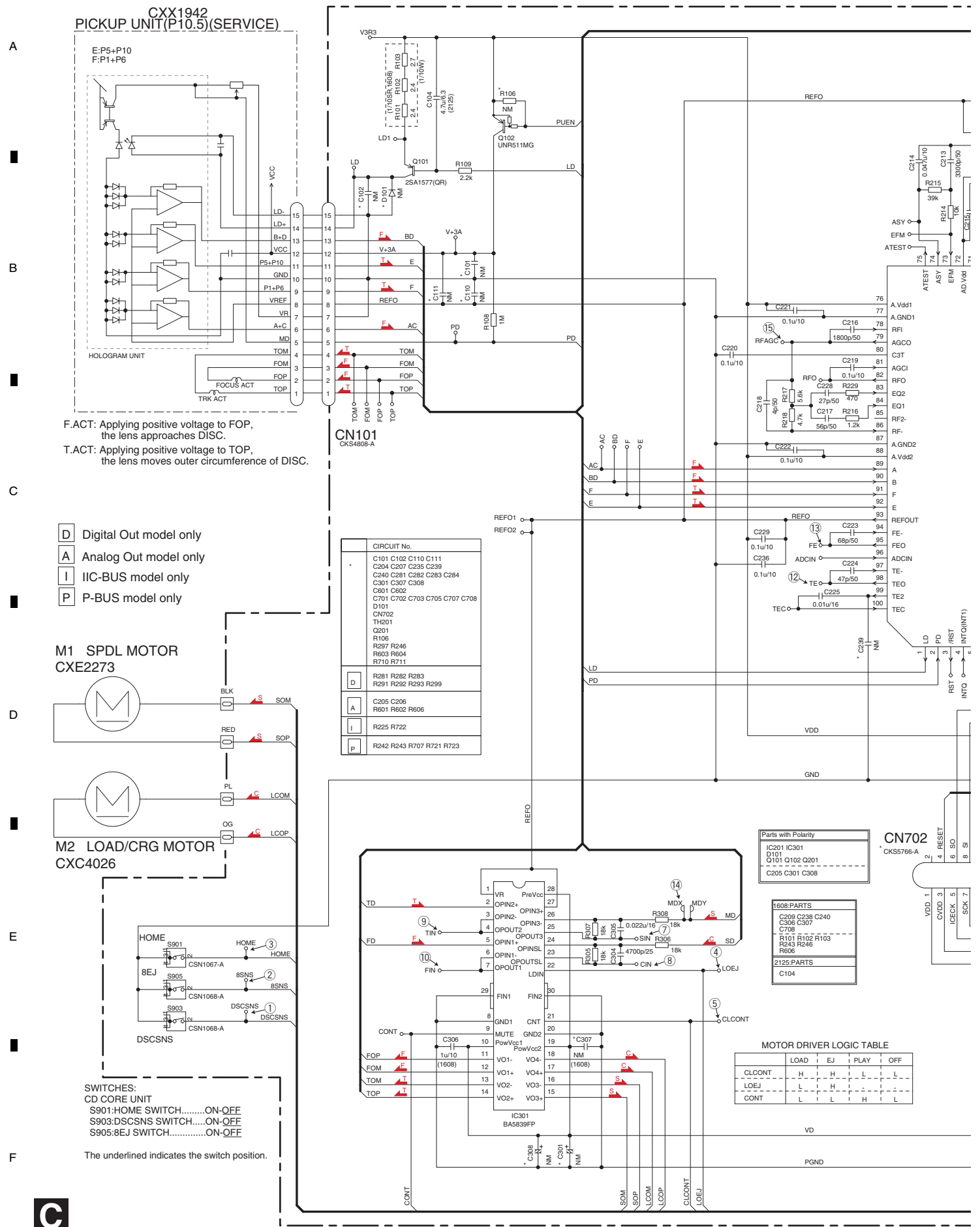
A:DEH-4250SD/XNES
 B:DEH-4250SD/XNES1
 C:DEH-4290SD/XNID
 D:DEH-3200UB/XNUC

B KEYBOARD UNIT





10.4 CD CORE UNIT(S11STD-DOUT)



F.ACT: Applying positive voltage to FOP, the lens approaches DISC.
 T.ACT: Applying positive voltage to TOP, the lens moves outer circumference of DISC.

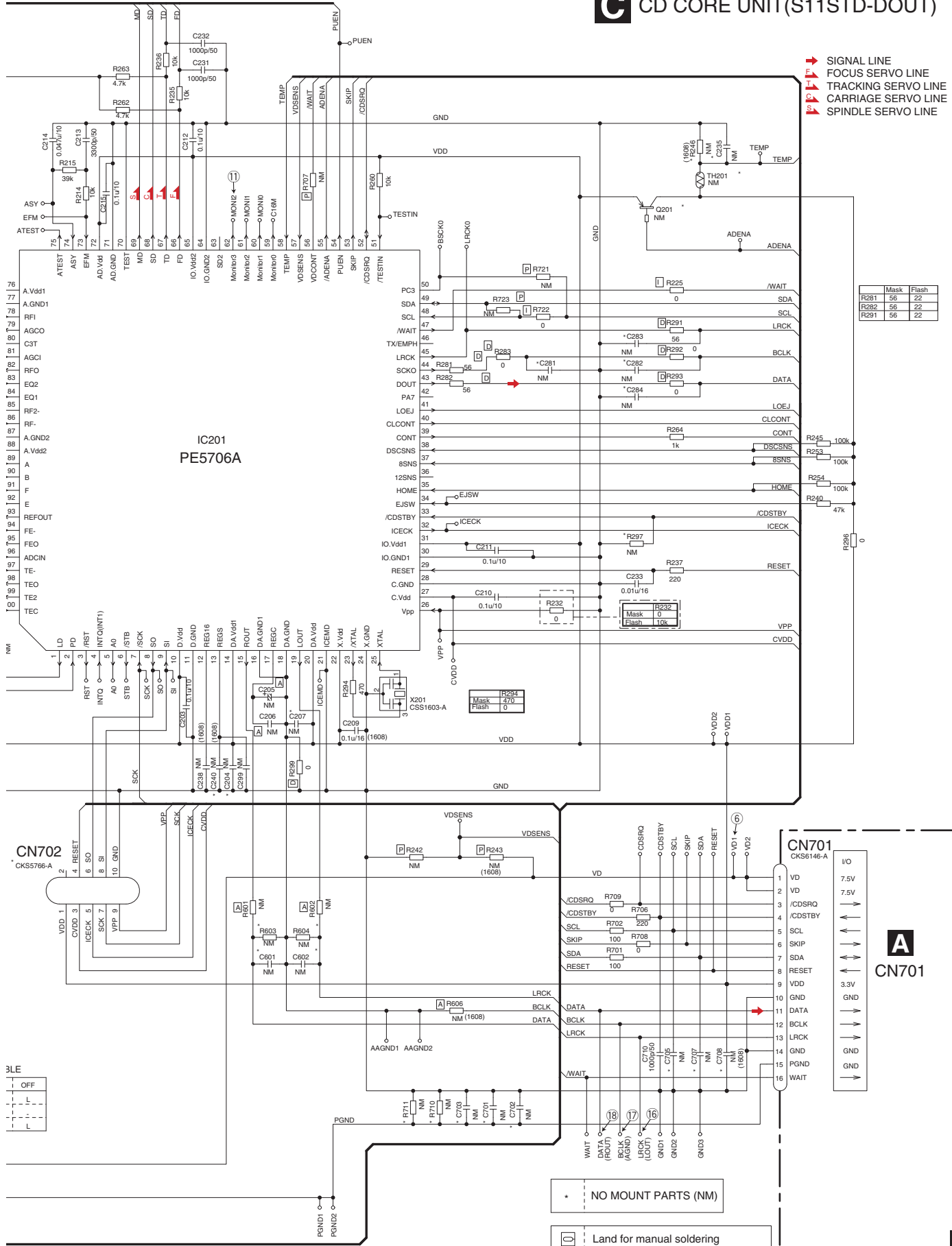
- D** Digital Out model only
- A** Analog Out model only
- I** IIC-BUS model only
- P** P-BUS model only

	CIRCUIT No.
	C101 C102 C110 C111
	C204 C207 C235 C239
	C240 C281 C282 C283 C284
	C301 C307 C308
	C601 C602
	C701 C702 C703 C705 C707 C708
	D101
	CN702
	TH201
	Q201
	R106
	R297 R246
	R603 R604
	R710 R711
D	R281 R282 R283 R291 R292 R293 R299
A	C205 C206 R601 R602 R606
I	R225 R722
P	R242 R243 R707 R721 R723

The underlined indicates the switch position.

C CD CORE UNIT(S11STD-DOUT)

- ➔ SIGNAL LINE
- ➔ FOCUS SERVO LINE
- ➔ TRACKING SERVO LINE
- ➔ CARRIAGE SERVO LINE
- ➔ SPINDLE SERVO LINE

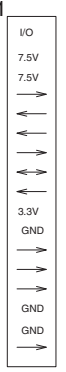


	Mask	Flash
R281	56	22
R282	56	22
R291	56	22

	Mask	Flash
R234	470	0

	Mask	Flash
R232	0	10k

A CN701



NO MOUNT PARTS (NM)

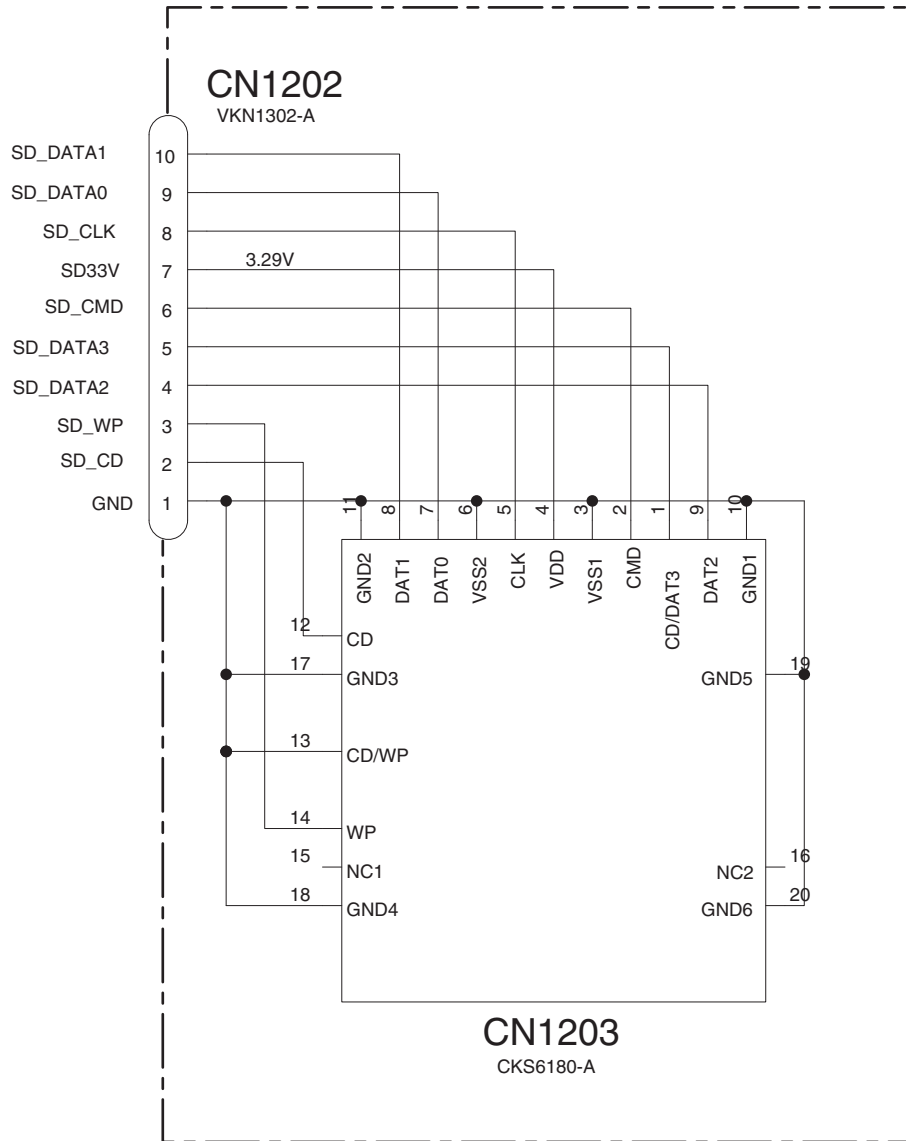
Land for manual soldering

10.5 SD UNIT

A:DEH-4250SD/XNES
 B:DEH-4250SD/XNES1
 C:DEH-4290SD/XNID
 D:DEH-3200UB/XNUC

D SD UNIT (A,B,C only)

A2/2
 CN781



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/OS○○○○J,RS1/○○S○○○○J

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

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

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

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

IC 301 (A, 91, 111) IC NJM2068V

<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
A:DEH-4250SD/XNES		IC 581 (A,24,80) IC	S-1172B33-E6
B:DEH-4250SD/XNES1		IC 583 (A,24,89) IC	BH12PB3WHFV
C:DEH-4290SD/XNID		IC 591 (A,102,23) IC	341S2162
D:DEH-3200UB/XNUC		IC 601 (A,128,96) IC	PEG640A8
Unit Number : CWN4805(A,B,C)		IC 651 (A,119,108) IC	S-80827CNNB-B8M
Unit Number : CWN5219(D)		IC 901 (B,24,70) Regulator IC	S-1132B33-U5
Unit Name : Tuner Amp Unit		IC 911 (A,7,122) IC	NJM2388F84
Unit Number : CWN4813(A,B,C)		Q 301 (A,14,126) Transistor	UMH3N
Unit Name : Keyboard Unit		Q 303 (A,29,126) Transistor	UMH3N
Unit Number : CWN5220(D)		Q 361 (A,57,131) Transistor	LTC114EUB
Unit Name : Keyboard Unit		Q 363 (A,70,128) Transistor	RT3T22M
Unit Number : CWX3774		Q 381 (B,55,131) Transistor	2SC4081
Unit Name : CD Core Unit(S11STD-DOUT)		Q 382 (A,45,129) Transistor	RT3T22M
Unit Number : CWN4816(A,B,C)		Q 591 (A,108,25) Transistor	LSA1576UB
Unit Name : SD Unit		Q 751 (A,7,94) Transistor	2SD2396
		Q 752 (A,16,104) Transistor	RT3T22M
		Q 781 (A,72,92) Chip Transistor(A,B,C)	2SB1689
		Q 782 (A,70,92) Transistor(A,B,C)	LTC114EUB
		Q 783 (A,106,95) Transistor(A,B,C)	DTA123EU
		Q 821 (A,95,126) Transistor	2SA1036K
		Q 822 (A,96,121) Transistor	LTC114EUB
		Q 831 (B,93,118) Transistor	2SD1664
		Q 832 (A,91,122) Transistor	RT3T22M
		Q 841 (A,94,16) Transistor	LSA1576UB
		Q 842 (A,93,11) Transistor	LTC114EUB
		Q 901 (A,7,71) Transistor	2SD2396
A		Q 902 (A,14,77) Transistor	RT3T22M
Unit Number : CWN4805(A,B,C)		Q 921 (A,136,108) Transistor	RT3CLLM
Unit Number : CWN5219(D)		D 161 (A,28,96) Diode	CRG03
Unit Name : Tuner Amp Unit		D 162 (A,28,94) Diode	CRG03
MISCELLANEOUS		D 163 (A,36,94) Diode	CMS02
IC 151 (A,62,91) IC	R5523N001B	D 381 (B,61,131) Diode	UDZS8R2(B)
IC 161 (A,50,102) Regulator IC	BD9781HFP	D 382 (B,47,126) Diode	DAN202U
IC 181 (A,108,75) IC	WM8761GED	D 383 (A,54,128) Diode	1SS352
IC 182 (A,80,99) IC	NJM2872F05	D 581 (A,19,79) Diode	1SS352
IC 201 (A,75,118) IC	PM9012A	D 582 (B,23,80) Diode	CRG03
IC 351 (A,83,142) IC	PA2030A	D 601 (A,122,85) Diode	RB551V-30
IC 431 (B,152,131) IC	NJM2885DL1-33	D 602 (A,128,107) Diode	RB751S-40
IC 501 (A,121,50) IC	R5S7262ZD144FPU	D 651 (A,118,105) Diode	1SS352
IC 571 (A,148,51) Software Unit	CWW1967	D 751 (A,12,104) Diode	HZU8R2(B1)

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

D 801	(A,116,14) Diode	DZ2S068C	R 192	(A,92,104)	RS1/16SS821J
D 802	(A,119,14) Diode	DZ2S068C	R 201	(A,69,124)	RAB4CQ102J
D 803	(A,122,13) Diode	DZ2S068C	R 202	(A,80,105)	RS1/16SS331J
D 804	(A,123,13) Diode	DZ2S068C	R 207	(A,81,105)	RS1/16SS223J
D 805	(A,124,13) Diode	DZ2S068C	R 208	(A,81,106)	RS1/16SS223J

D 831	(A,91,119) Diode	HZU10(B1)	R 301	(A,12,128)	RS1/16SS821J
D 901	(B,14,97) Diode	CRG03	R 302	(A,18,126)	RS1/16SS821J
D 902	(A,12,77) Diode	UDZS5R6(B)	R 305	(A,27,128)	RS1/16SS821J
D 921	(A,141,122) Diode	HZU7L(C3)	R 306	(A,32,128)	RS1/16SS821J
D 922	(A,139,122) Diode	HZU7L(A1)	R 307	(A,12,129)	RS1/16SS223J

D 941	(A,100,129) Diode	CRG03	R 308	(A,17,129)	RS1/16SS223J
D 942	(A,105,125) Diode	CRG03	R 311	(A,28,129)	RS1/16SS223J
D 981	(A,139,130) Diode	CRG03	R 312	(A,32,129)	RS1/16SS223J
D 982	(A,139,128) Diode	CRG03	R 315	(A,23,130)	RS1/16SS0R0J
			R 316	(A,26,130)	RS1/16SS0R0J

ZNR401	(B,164,117) Surge Protector	IMSA-6802-01Y900			
L 161	(A,44,92) Inductor	CTH1253	R 361	(A,59,132)	RS1/16SS103J
L 181	(A,102,80) Chip Ferrite Bead	DTL1107	R 362	(A,57,129)	RS1/16SS103J
L 401	(A,153,103) Chip Coil	BTH1100	R 363	(A,60,132)	RS1/16SS331J
L 402	(A,155,73) Chip Coil	BTH1100	R 365	(A,69,131)	RS1/16SS103J
			R 366	(A,70,131)	RS1/16SS103J

L 404	(B,167,103) Chip Coil	BTH1104			
L 501	(A,98,74) Inductor	VTL1145	R 381	(B,59,132)	RS1/10SR473J
L 502	(A,98,79) Inductor	CTF1410	R 382	(B,63,133)	RS1/10SR104J
L 601	(A,109,89) Chip Coil	BTH1103	R 383	(A,134,84)	RS1/16SS473J
L 801	(A,117,17) Inductor	CTF1713	R 384	(B,50,129)	RS1/10SR473J
			R 385	(A,45,131)	RS1/16SS102J

L 981	(A,116,141) Choke Coil 600 uH	CTH1445			
X 501	(A,124,69) Oscillator 48.000 MHz	CSS1760	R 401	(A,156,92)	RS1/16SS681J
X 503	(A,103,43) Oscillator 16.93 MHz	CSS1794	R 403	(A,156,94)	RS1/16SS681J
X 601	(A,114,97) Oscillator 20.000 MHz	CSS1795	R 404	(A,156,95)	RS1/16SS681J
			R 405	(A,156,96)	RS1/16SS681J
			R 406	(A,156,97)	RS1/16SS681J

S 651	(A,134,10) Switch	CSG1020			
P 301	(A,40,118) Poly Switch	MINISMDC075F/24			
VA661	(A,53,135) Varistor	VR105C5R0AAA	R 407	(A,156,98)	RS1/16SS681J
VA662	(A,53,133) Varistor	VR105C5R0AAA	R 408	(A,156,99)	RS1/16SS152J
VA801	(A,106,15) Varistor	VR105C5R0AAA	R 501	(A,134,65)	RS1/16SS473J
			R 502	(A,140,66)	RS1/16SS101J
			R 504	(A,132,65)	RS1/16SS473J

VA802	(A,115,16) Varistor	VR105C5R0AAA			
VA803	(A,120,14) Varistor	VR105C5R0AAA			
VA806	(A,110,15) Varistor	VR105C5R0AAA	R 505	(A,131,65)	RS1/16SS473J
VA807	(A,111,15) Varistor	VR105C5R0AAA	R 509	(A,130,65)	RS1/16SS473J
VA808	(A,127,14) Varistor	VR105C5R0AAA	R 510	(A,129,65)	RS1/16SS473J
			R 513	(A,122,65)	RS1/16SS102J
			R 518	(A,96,71)	RS1/16SS101J

CN701	(A,96,39) Connector	VKN1192			
CN781	(A,96,61) Connector(A,B,C)	VKN1186			
CN801	(A,114,4) Connector	CKS6188	R 519	(A,118,65)	RS1/16SS5601F
JA301	(A,25,138) Pin Jack	YKB5011	R 521	(A,106,55)	RS1/16SS473J
JA401	(A,169,129) Antenna Jack	CKX1070	R 522	(A,106,54)	RS1/16SS473J
			R 526	(B,114,63)	RS1/10SR221J
			R 529	(A,106,43)	RS1/16SS332J

JA661	(A,47,139) Connector	CKS4124			
JA981	(A,118,141) Plug	CKM1586			
	FM/AM Tuner Unit	CWE2098	R 530	(A,106,41)	RS1/16SS473J
	Fuse(10 A)	YEK5001	R 531	(B,109,38)	RS1/10SR473J
			R 532	(B,120,51)	RS1/10SR221J
			R 533	(B,120,49)	RS1/10SR101J
			R 534	(B,120,46)	RS1/10SR101J

RESISTORS

R 151	(A,96,90)	RS1/16SS104J			
R 161	(A,42,103)	RS1/16SS1003F	R 535	(B,120,42)	RS1/10SR101J
R 163	(A,42,98)	RS1/16SS683J	R 544	(A,137,40)	RS1/16SS472J
R 165	(B,48,97)	RS1/10SR1003D	R 547	(A,136,40)	RS1/16SS0R0J
R 166	(B,47,99)	RS1/10SR2402D	R 554	(A,112,67)	RS1/16SS473J
			R 560	(B,135,43)	RS1/10SR473J

R 167	(B,45,96)	RS1/10SR333J			
R 168	(B,52,99)	RS1/10SR471J	R 561	(A,101,71)	RS1/16SS103J
R 169	(B,47,101)	RS1/10SR121J	R 572	(A,141,38)	RS1/16SS472J
R 181	(A,102,95)	RS1/10SR0R0J	R 574	(A,143,38)	RS1/16SS472J
R 191	(A,92,103)	RS1/16SS821J	R 575	(A,142,29)	RAB4CQ221J
			R 576	(A,139,31)	RAB4CQ221J

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<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
R 577	(A,142,33)	RAB4CQ221J		R 784	(A,100,60) (A,B,C)	RS1/16SS221J	
R 578	(A,138,35)	RAB4CQ221J		R 785	(A,100,59) (A,B,C)	RS1/16SS221J	
R 591	(A,111,24)	RS1/16SS472J		R 786	(A,100,58) (A,B,C)	RS1/16SS221J	A
R 592	(A,108,28)	RS1/16SS101J		R 787	(A,100,53) (A,B,C)	RS1/16SS221J	
R 593	(A,102,28)	RS1/16SS103J		R 788	(A,100,54) (A,B,C)	RS1/16SS221J	
R 594	(A,108,27)	RS1/16SS101J		R 789	(A,70,90) (A,B,C)	RS1/10SR681J	
R 595	(A,101,28)	RS1/16SS103J		R 790	(A,72,90) (A,B,C)	RS1/10SR103J	
R 596	(A,108,23)	RS1/16SS473J		R 792	(A,104,54)	RAB4CQ473J	
R 599	(A,103,18)	RS1/16SS272J		R 793	(A,103,58)	RAB4CQ473J	
R 600	(A,101,17)	RS1/16SS472J		R 794	(A,76,91) (A,B,C)	RS1/10SR102J	
R 602	(B,121,98)	RS1/10SR472J		R 795	(A,104,56) (D)	RS1/10SS0R0J	
R 603	(A,116,97)	RS1/16SS105J		R 801	(A,127,16)	RS1/10SR222J	
R 604	(A,117,98)	RS1/16SS101J		R 802	(A,112,15)	RS1/10SR222J	
R 605	(A,116,92)	RS1/16SS104J		R 803	(A,109,15)	RS1/10SR222J	B
R 606	(A,117,91)	RS1/16SS222J		R 804	(A,120,17)	RS1/10SR222J	
R 607	(A,129,83)	RS1/16SS104J		R 805	(A,114,15)	RS1/10SR222J	
R 608	(A,118,86)	RS1/16SS104J		R 808	(A,108,15)	RS1/10SR222J	
R 609	(A,134,109)	RS1/16SS104J		R 809	(B,134,21)	RS1/10SR104J	
R 610	(A,134,107)	RS1/16SS104J		R 810	(A,118,20)	RS1/10SR8R2J	
R 613	(A,125,84)	RS1/16SS104J		R 811	(A,117,20)	RS1/10SR8R2J	
R 614	(A,126,84)	RS1/16SS104J		R 812	(A,126,24)	RS1/16SS104J	
R 615	(A,124,84)	RS1/16SS104J		R 813	(A,127,24)	RS1/16SS104J	
R 616	(A,127,84)	RS1/16SS104J		R 814	(A,122,17)	RS1/10SR101J	
R 617	(A,129,84)	RS1/16SS104J		R 816	(A,124,17)	RS1/10SR101J	
R 618	(A,130,84)	RS1/16SS104J		R 821	(A,94,123)	RS1/10SR1R0J	C
R 619	(A,132,83)	RS1/16SS472J		R 822	(A,97,124)	RS1/16SS472J	
R 620	(A,131,83)	RS1/16SS104J		R 823	(A,95,129)	RS1/16SS103J	
R 623	(A,138,96)	RS1/16SS104J		R 831	(A,90,115)	RS1/10SR103J	
R 624	(A,130,107)	RS1/16SS473J		R 832	(A,87,117)	RS1/16SS1R0J	
R 626	(A,128,108)	RS1/16SS103J		R 833	(A,91,126)	RS1/10SR122J	
R 627	(A,125,109)	RS1/16SS104J		R 842	(A,96,12)	RS1/16SS472J	
R 630	(A,142,105)	RS1/16SS104J		R 843	(A,94,14)	RS1/16SS102J	
R 631	(A,122,107) (A,B,C)	RS1/16SS104J		R 844	(A,92,16)	RS1/16SS103J	
R 632	(A,121,107) (D)	RS1/16SS104J		R 901	(A,14,73)	RS1/16SS332J	
R 643	(A,147,93)	RS1/16SS104J		R 902	(A,12,73)	RS1/16SS223J	
R 651	(A,117,104)	RS1/16SS104J		R 911	(A,12,108)	RS1/16SS102J	D
R 652	(A,117,103)	RS1/16SS152J		R 912	(A,12,111)	RS1/16SS473J	
R 661	(A,56,135)	RS1/10SR102J		R 921	(A,139,106)	RS1/16SS104J	
R 662	(A,56,133)	RS1/10SR102J		R 922	(A,139,109)	RS1/16SS103J	
R 701	(A,100,49)	RS1/16SS472J		R 923	(A,140,106)	RS1/16SS473J	
R 702	(A,100,46)	RS1/16SS473J		R 924	(A,140,108)	RS1/16SS473J	
R 703	(A,106,29)	RS1/16SS472J		R 925	(A,128,126)	RS1/16SS472J	
R 704	(A,106,30)	RS1/16SS472J		R 926	(A,124,127)	RS1/4SA102J	
R 705	(A,101,47)	RS1/16SS221J		CAPACITORS			
R 706	(A,103,39)	RS1/16SS221J		C 151	(A,60,92)	CKSSYB104K10	E
R 707	(A,110,35)	RS1/16SS101J		C 152	(A,59,90)	CKSSYB104K10	
R 708	(A,102,37)	RS1/16SS221J		C 161	(A,35,104) Capacitor	CEVW221M16	
R 709	(A,110,34)	RS1/16SS101J		C 162	(A,42,107)	CKSRYB105K16	
R 710	(A,103,36)	RS1/16SS102J		C 163	(A,43,103)	CKSSYB104K16	
R 711	(A,100,36)	RS1/16SS151J		C 165	(A,42,100)	CKSSYB103K10	
R 712	(A,100,35)	RS1/16SS151J		C 166	(A,54,93) 150 uF/6.3 V	CCH1804(P25)	
R 713	(A,100,34)	RS1/16SS151J		C 167	(B,48,95)	CCSRCH221J50	
R 714	(A,100,32)	RS1/16SS221J		C 182	(A,113,77) 10 uF	CCG1192	
R 715	(A,119,31)	RS1/16SS104J		C 183	(A,105,80)	CKSSYB103K16	
R 716	(A,101,32)	RS1/16SS104J		C 184	(A,104,81) 10 uF	CCG1192	F
R 717	(A,100,37)	RS1/16SS104J		C 186	(A,99,81)	CKSRYB105K10	
R 751	(A,15,101)	RS1/10SR821J		C 187	(A,82,98)	CKSSYB104K10	
R 753	(A,13,99)	RS1/16SS473J		C 188	(A,77,99)	CKSSYB104K10	
R 754	(A,14,99)	RS1/16SS103J					
R 781	(A,100,62) (A,B,C)	RS1/16SS221J					
R 783	(A,100,61) (A,B,C)	RS1/16SS221J					

	1	2	3	4
	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
	C 190 (A,119,74)	CKSSYB102K10	C 519 (A,127,65)	CKSSYB104K10
	C 191 (A,89,103)	CCSRCH182J50	C 520 (A,124,65)	CKSSYB104K10
A	C 192 (A,90,103)	CCSRCH182J50	C 521 (A,124,66)	CKSSYB104K10
	C 196 (A,99,83)	CKSSYB681K50	C 522 (A,119,67)	CKSSYB104K10
	C 201 (A,79,104)	CKSRYB105K10	C 523 (A,122,71)	CCSSCH100D50
	C 202 (A,79,107)	CKSRYB105K10	C 524 (A,125,71)	CCSSCH100D50
	C 203 (A,77,105)	CKSQYB225K10	C 525 (A,119,66)	CKSSYB104K10
	C 209 (A,88,109)	CKSRYB224K16	C 526 (A,116,67)	CKSSYB104K10
	C 210 (A,88,108)	CKSRYB224K16	C 527 (A,116,66)	CKSSYB104K10
	C 211 (B,70,113)	CKSRYB105K10	C 528 (A,115,65)	CKSSYB104K10
	C 212 (B,72,113)	CKSRYB105K10	C 529 (A,111,65)	CKSSYB104K10
	C 213 (B,83,119) 10 uF	CCG1203	C 530 (A,110,65)	CKSSYB104K10
	C 214 (A,84,121) 10 uF	CCG1192	C 531 (A,106,57)	CKSSYB104K10
B	C 215 (A,84,119)	CKSSYB104K10	C 532 (A,106,56)	CKSSYB104K10
	C 216 (B,80,122) 10 uF	CCG1203	C 533 (A,106,52)	CKSSYB104K10
	C 217 (A,85,126)	CKSSYB104K10	C 534 (A,106,50)	CKSSYB104K10
	C 218 (A,84,124) 10 uF	CCG1192	C 535 (B,109,45)	CKSRYB104K16
	C 219 (B,72,118)	CKSRYB105K10	C 536 (B,109,43)	CKSRYB104K16
	C 220 (B,79,117)	CKSRYB105K10	C 537 (A,106,40)	CKSSYB104K10
	C 301 (A,28,119) 10 uF	CCG1192	C 538 (A,106,38)	CKSSYB104K10
	C 302 (A,29,121) 10 uF	CCG1192	C 539 (A,115,34)	CKSSYB104K10
	C 305 (A,35,125) 10 uF	CCG1192	C 540 (A,116,33)	CKSSYB104K10
	C 306 (A,39,127) 10 uF	CCG1192	C 541 (A,120,34)	CKSSYB104K10
C	C 351 (A,82,129)	CKSRYB474K10	C 542 (A,124,35)	CKSSYB104K10
	C 352 (A,80,129)	CKSRYB474K10	C 543 (A,129,34)	CKSSYB104K10
	C 353 (A,84,129)	CKSRYB474K10	C 544 (A,130,35)	CKSSYB104K10
	C 354 (A,86,129)	CKSRYB474K10	C 545 (A,100,71)	CKSSYB105K6R3
	C 355 (A,82,132)	CKSRYB474K16	C 546 (A,137,70)	CKSSYB102K10
	C 356 (A,80,132)	CKSRYB474K16	C 547 (B,120,53)	CCSRCH220J50
	C 357 (A,84,132)	CKSRYB474K16	C 548 (A,101,42)	CCSSCH120J50
	C 358 (A,86,132)	CKSRYB474K16	C 549 (A,101,44)	CCSSCH120J50
	C 361 (A,136,122) 3 300 uF/16 V	CCH1486	C 550 (B,120,44)	CCSRCH220J50
	C 362 (B,98,143)	CKSRYB104K16	C 571 (A,139,40) 10 uF	CCG1192
	C 363 (A,88,126)	CKSQYB225K10	C 572 (A,140,39)	CKSSYB104K10
	C 364 (A,88,130)	CKSQYB225K10	C 574 (A,148,62)	CKSSYB103K10
D	C 365 (A,76,130) 10 uF	CCG1236	C 581 (B,22,77) 10 uF	CCG1203
	C 367 (A,62,132) 10 uF	CCG1192	C 583 (A,30,81) 10 uF	CCG1192
	C 381 (A,50,128) Capacitor	CEVW220M16	C 585 (A,23,86) 10 uF	CCG1192
	C 401 (A,154,105)	CKSSYB103K10	C 588 (A,34,85) 10 uF	CCG1192
	C 402 (A,156,104) 10 uF	CCG1192	C 591 (A,108,22)	CKSSYB104K10
	C 405 (A,156,69)	CKSSYB103K10	C 592 (A,101,18)	CKSSYB104K10
	C 406 (A,155,70) 10 uF	CCG1192	C 601 (A,106,90) 10 uF	CCG1192
	C 407 (A,155,78)	CKSSYB103K10	C 603 (A,113,90) 4.7 uF	CCG1201
	C 431 (B,159,125)	CKSQYB475K6R3	C 604 (A,111,98)	CCSSCH100D50
	C 432 (B,159,122)	CKSRYB103K50	C 605 (A,111,96)	CCSSCH120J50
E	C 433 (B,159,136)	CKSQYB475K10	C 606 (A,117,95)	CKSSYB104K10
	C 501 (A,98,75) 10 uF	CCG1192	C 608 (A,138,95)	CKSSYB104K10
	C 503 (A,102,73) 10 uF	CCG1192	C 610 (A,118,101)	CKSSYB104K10
	C 504 (A,98,77) 10 uF	CCG1192	C 651 (A,117,108)	CKSRYB105K10
	C 506 (A,102,77) 10 uF	CCG1192	C 703 (A,103,33)	CCSSCH220J50
	C 507 (A,136,42)	CKSSYB104K10	C 704 (A,103,32)	CCSSCH100D50
	C 508 (A,137,43)	CKSSYB104K10	C 705 (A,103,31)	CCSSCH220J50
	C 509 (A,136,48)	CKSSYB104K10	C 706 (A,118,31)	CKSSYB103K10
	C 510 (A,137,49)	CKSSYB104K10	C 751 (A,14,96) 10 uF	CCG1192
	C 511 (A,136,54)	CKSSYB104K10	C 754 (A,13,104)	CKSSYB473K10
	C 512 (A,137,55)	CKSSYB104K10	C 788 (B,98,68)	CKSRYB102K50
F	C 513 (A,136,59)	CKSSYB104K10	C 801 (B,104,17)	CKSRYB104K16
	C 514 (A,137,59)	CKSSYB104K10	C 802 (B,128,22)	CKSRYB105K16
	C 515 (A,136,61)	CKSSYB103K10	C 831 (A,91,118)	CKSSYB473K16
	C 516 (A,133,65)	CKSSYB104K10	C 832 (A,89,115)	CKSSYB102K50

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 901	(A,15,63)	CEAT102M16		R 1811	(B,68,16)	RS1/10SR102J	
C 902	(A,14,79)	CKSSYB103K10		R 1812	(B,47,12)	RS1/10SR102J	
C 904	(A,16,72) 10 uF	CCG1192		R 1813	(B,49,13)	RS1/10SR103J	
C 905	(B,24,66)	CKSQYB475K6R3		R 1814	(B,61,12)	RS1/10SR122J	A
C 907	(B,29,69)	CKSQYB475K6R3		R 1815	(B,59,25)	RS1/10SR182J	
C 911	(A,25,108) Capacitor	CEVW221M10		R 1816	(B,48,28)	RS1/10SR332J	
C 913	(A,16,114)	CEVW101M16		R 1817	(B,48,26)	RS1/10SR822J	
C 921	(A,128,127)	CKSSYB104K16		R 1818	(B,42,27)	RS1/10SR103J	
C 941	(A,103,128)	CKSSYB473K16		R 1831	(B,150,37)	RS1/4SA271J	
				R 1835	(B,13,24)	RS1/4SA331J	
				R 1837	(B,15,10)	RS1/4SA331J	
				R 1838	(B,67,8)	RS1/4SA331J	
				R 1839	(B,120,23)	RS1/4SA331J	

B

Unit Number : CWN4813(A,B,C)

Unit Name : Keyboard Unit

MISCELLANEOUS

IC 1891	(A,144,18) Remote IC	GP1UXC14RK		R 1874	(A,39,8)	RS1/10SR332J	
IC 1901	(B,87,23) IC	PEG642A8		R 1875	(A,81,9)	RS1/10SR822J	
D 1804	(B,87,14) Diode	DAN202U		R 1876	(A,119,22)	RS1/10SR333J	
D 1805	(B,91,15) Diode	DAP202U		R 1877	(A,17,33)	RS1/10SR103J	
D 1831	(A,152,39) LED	CL-195SR-CD		R 1878	(A,26,32)	RS1/10SR122J	
D 1833	(A,7,29) LED	CL-195SR-CD		R 1879	(A,38,32)	RS1/10SR182J	
D 1834	(A,18,28) LED	CL-195SR-CD		R 1880	(A,118,27)	RS1/10SR332J	C
D 1835	(A,30,27) LED	CL-195SR-CD		R 1881	(A,122,19)	RS1/10SR822J	
D 1836	(A,8,12) LED	CL-195SR-CD		R 1882	(A,125,18)	RS1/10SR333J	
D 1837	(A,19,12) LED	CL-195SR-CD		R 1891	(B,131,24)	RS1/10SR121J	
D 1838	(A,30,13) LED	CL-195SR-CD		R 1893	(B,140,17)	RS1/10SR2R2J	
D 1839	(A,77,8) LED	CL-195SR-CD		R 1901	(B,75,28)	RS1/10SR473J	
D 1840	(A,87,8) LED	CL-195SR-CD		R 1902	(B,94,32)	RS1/10SR154J	
D 1841	(A,101,8) LED	CL-195SR-CD		R 1903	(B,81,31)	RS1/10SR473J	
D 1842	(A,111,8) LED	CL-195SR-CD		R 1904	(B,98,19)	RS1/10SR473J	
D 1843	(A,125,8) LED	CL-195SR-CD		R 1905	(B,99,21)	RS1/10SR473J	
D 1844	(A,135,8) LED	CL-195SR-CD		R 1906	(A,109,28)	RS1/10SR473J	
D 1845	(A,43,24) LED	CL-195SR-CD		R 1907	(A,110,30)	RS1/10SR473J	D
D 1846	(A,64,28) LED	CL-195SR-CD		R 1908	(B,86,16)	RS1/10SR103J	
D 1901	(B,97,31) Diode	1SS355		R 1909	(B,71,21)	RS1/10SR102J	
X 1901	(B,87,29) Radiator 10.0 MHz	CSS1577		R 1910	(B,75,24)	RS1/10SR473J	
S 1801	(A,5,36) Push Switch	CSG1155		R 1922	(A,89,21)	RS1/10SR5102D	
S 1811	(A,55,20) Switch	CSX1120		R 1924	(A,107,25)	RAB4C101J	
S 1871	(A,11,6) Push Switch	CSG1155		R 1925	(B,95,22)	RAB4C101J	
S 1872	(A,22,6) Push Switch	CSG1155		R 1941	(B,155,37)	RS1/4SA561J	
S 1873	(A,34,7) Push Switch	CSG1155		R 1942	(B,15,23)	RS1/10SR151J	
S 1874	(A,72,7) Push Switch	CSG1155		R 1943	(B,13,20)	RS1/10SR151J	
S 1875	(A,91,7) Push Switch	CSG1155		R 1944	(B,70,8)	RS1/10SR151J	
S 1876	(A,139,7) Push Switch	CSG1155		R 1945	(B,122,21)	RS1/10SR151J	E
S 1877	(A,21,34) Push Switch	CSG1155		R 1946	(B,31,30)	RS1/10SR221J	
S 1878	(A,33,33) Push Switch	CSG1155					
S 1879	(A,95,7) Push Switch	CSG1155					
S 1880	(A,115,7) Push Switch	CSG1155					
S 1881	(A,120,7) Push Switch	CSG1155					
S 1882	(A,149,42) Push Switch	CSG1155					
CN1801	(B,108,10) Connector	CKS6049					
CN1802	(A,154,25) Connector	YKS5036					
CN1921	(A,97,21) Connector	CKS6036					
JA1801	(A,153,10) Jack	YKN5006					
	OEL Module	MXS4012					

RESISTORS

R 1804	(B,88,12)	RS1/10SR222J		C 1801	(B,146,32)	CKSRYB104K16	
R 1805	(B,90,17)	RS1/10SR222J		C 1802	(B,157,17)	CKSRYB472K50	
				C 1803	(B,145,13)	CKSRYB472K50	
				C 1804	(B,145,27)	CCSRCH101J50	
				C 1805	(B,143,27)	CKSRYB102K50	
				C 1806	(B,108,19)	CKSRYB105K6R3	
				C 1808	(B,135,7)	CKSRYB105K6R3	F
				C 1891	(B,138,20)	CKSYF106Z10	
				C 1901	(B,99,29)	CKSRYB104K16	
				C 1902	(B,82,24)	CKSRYB103K50	

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

C 1921 (A,89,25) CKSRYB105K10
 C 1922 (A,89,23) CKSRYB105K10
 C 1923 (B,99,22) CKSRYB105K10

S 1880 (A,115,7) Push Switch CSG1155
 S 1881 (A,120,7) Push Switch CSG1155
 S 1882 (A,149,42) Push Switch CSG1155
 CN1801 (B,108,10) Connector CKS6049
 CN1802 (A,154,25) Connector YKS5036
 CN1921 (A,97,21) Connector CKS6036
 JA 1801 (A,153,10) Jack YKN5006
 OEL Module MXS4013

B**Unit Number: CWN5220(D)****Unit Name : Keyboard Unit**MISCELLANEOUS

IC 1891 (A,144,18) Remote IC GP1UXC14RK
 IC 1901 (B,87,23) IC PEG642A8
 Q 1831 (B,40,8) Transistor IMX9
 Q 1832 (B,40,15) Transistor LTC114EUB

D 1804 (B,87,14) Diode DAN202U
 D 1805 (B,91,15) Diode DAP202U
 D 1831 (A,152,39) LED CL-195SR-CD
 D 1833 (A,7,29) LED CL-195SR-CD
 D 1834 (A,18,28) LED CL-195SR-CD

D 1835 (A,30,27) LED CL-195SR-CD
 D 1836 (A,8,12) LED CL-195SR-CD
 D 1837 (A,19,12) LED CL-195SR-CD
 D 1838 (A,30,13) LED CL-195SR-CD
 D 1839 (A,77,8) LED CL-195SR-CD

D 1840 (A,87,8) LED CL-195SR-CD
 D 1841 (A,101,8) LED CL-195SR-CD
 D 1842 (A,111,8) LED CL-195SR-CD
 D 1843 (A,125,8) LED CL-195SR-CD
 D 1844 (A,135,8) LED CL-195SR-CD

D 1845 (A,43,24) LED CL-195SR-CD
 D 1846 (A,64,28) LED CL-195SR-CD
 D 1849 (A,7,31) LED CL-195PG-CD
 D 1850 (A,18,30) LED CL-195PG-CD
 D 1851 (A,30,29) LED CL-195PG-CD

D 1852 (A,8,11) LED CL-195PG-CD
 D 1853 (A,19,11) LED CL-195PG-CD
 D 1854 (A,30,11) LED CL-195PG-CD
 D 1855 (A,76,8) LED CL-195PG-CD
 D 1856 (A,88,8) LED CL-195PG-CD

D 1857 (A,100,8) LED CL-195PG-CD
 D 1858 (A,112,8) LED CL-195PG-CD
 D 1859 (A,124,8) LED CL-195PG-CD
 D 1860 (A,136,8) LED CL-195PG-CD
 D 1861 (A,45,24) LED CL-195PG-CD

D 1862 (A,62,28) LED CL-195PG-CD
 D 1865 (A,150,39) LED CL-195PG-CD
 D 1901 (B,97,31) Diode 1SS355
 X 1901 (B,87,29) Radiator 10.0 MHz CSS1577
 S 1801 (A,5,36) Push Switch CSG1155

S 1811 (A,55,20) Switch CSX1120
 S 1871 (A,11,6) Push Switch CSG1155
 S 1872 (A,22,6) Push Switch CSG1155
 S 1873 (A,34,7) Push Switch CSG1155
 S 1874 (A,72,7) Push Switch CSG1155

S 1875 (A,91,7) Push Switch CSG1155
 S 1876 (A,139,7) Push Switch CSG1155
 S 1877 (A,21,34) Push Switch CSG1155
 S 1878 (A,33,33) Push Switch CSG1155
 S 1879 (A,95,7) Push Switch CSG1155

RESISTORS

R 1804 (B,88,12) RS1/10SR222J
 R 1805 (B,90,17) RS1/10SR222J
 R 1811 (B,68,16) RS1/10SR102J
 R 1812 (B,47,12) RS1/10SR102J
 R 1813 (B,49,13) RS1/10SR103J

R 1814 (B,61,12) RS1/10SR122J
 R 1815 (B,59,25) RS1/10SR182J
 R 1816 (B,48,28) RS1/10SR332J
 R 1817 (B,48,26) RS1/10SR822J
 R 1818 (B,42,27) RS1/10SR103J

R 1831 (B,150,37) RS1/4SA271J
 R 1835 (B,13,24) RS1/4SA331J
 R 1837 (B,15,10) RS1/4SA331J
 R 1838 (B,67,8) RS1/4SA331J
 R 1839 (B,120,23) RS1/4SA331J

R 1840 (B,31,26) RS1/4SA471J
 R 1841 (B,10,24) RS1/4SA471J
 R 1842 (B,12,10) RS1/4SA471J
 R 1843 (B,67,6) RS1/4SA471J
 R 1844 (B,117,23) RS1/4SA471J

R 1845 (B,33,26) RS1/4SA391J
 R 1849 (B,149,35) RS1/4SA271J
 R 1854 (B,41,12) RS1/10SR103J
 R 1855 (B,43,12) RS1/10SR222J
 R 1856 (B,35,14) RS1/10SR103J

R 1857 (B,35,16) RS1/10SR682J
 R 1867 (B,43,15) RS1/10SR562J
 R 1871 (A,6,7) RS1/10SR103J
 R 1872 (A,15,7) RS1/10SR122J
 R 1873 (A,30,7) RS1/10SR182J

R 1874 (A,39,8) RS1/10SR332J
 R 1875 (A,81,9) RS1/10SR822J
 R 1876 (A,119,22) RS1/10SR333J
 R 1877 (A,17,33) RS1/10SR103J
 R 1878 (A,26,32) RS1/10SR122J

R 1879 (A,38,32) RS1/10SR182J
 R 1880 (A,118,27) RS1/10SR332J
 R 1881 (A,122,19) RS1/10SR822J
 R 1882 (A,125,18) RS1/10SR333J
 R 1891 (B,131,24) RS1/10SR121J

R 1893 (B,140,17) RS1/10SR2R2J
 R 1901 (B,75,28) RS1/10SR473J
 R 1902 (B,94,32) RS1/10SR154J
 R 1903 (B,81,31) RS1/10SR473J
 R 1904 (B,98,19) RS1/10SR473J

R 1905 (B,99,21) RS1/10SR473J
 R 1906 (A,109,28) RS1/10SR473J
 R 1907 (A,110,30) RS1/10SR473J
 R 1908 (B,86,16) RS1/10SR103J
 R 1909 (B,71,21) RS1/10SR102J

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<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
R 1910	(B,75,24)	RS1/10SR473J		R 232	(A,19,21)	RS1/16SS0R0J	
R 1922	(A,89,21)	RS1/10SR5102D		R 235	(A,45,32)	RS1/16SS103J	
R 1924	(A,107,25)	RAB4C101J		R 236	(A,46,32)	RS1/16SS103J	
R 1925	(B,95,22)	RAB4C101J		R 237	(B,24,25)	RS1/16SS221J	A
R 1941	(B,155,37)	RS1/4SA561J		R 240	(B,26,30)	RS1/16SS473J	
				R 245	(B,28,30)	RS1/16SS104J	
R 1942	(B,15,23)	RS1/10SR151J		R 253	(B,27,30)	RS1/16SS104J	
R 1943	(B,13,20)	RS1/10SR151J		R 254	(B,29,30)	RS1/16SS104J	
R 1944	(B,70,8)	RS1/10SR151J					
R 1945	(B,122,21)	RS1/10SR151J		R 260	(B,41,21)	RS1/16SS103J	
R 1946	(B,31,30)	RS1/10SR221J		R 262	(A,44,32)	RS1/16SS472J	
				R 263	(A,47,32)	RS1/16SS472J	
R 1947	(B,34,30)	RS1/10SR181J		R 264	(A,44,25)	RS1/16SS102J	
R 1948	(B,155,35)	RS1/4SA471J		R 281	(A,31,22)	RS1/16SS560J	

CAPACITORS

C 1801	(B,146,32)	CKSRYB104K16		R 282	(A,30,22)	RS1/16SS560J	B
C 1802	(B,157,17)	CKSRYB472K50		R 283	(B,32,18)	RS1/16SS0R0J	
C 1803	(B,145,13)	CKSRYB472K50		R 291	(B,31,17)	RS1/16SS560J	
C 1804	(B,145,27)	CCSRCH101J50		R 292	(B,32,16)	RS1/16SS0R0J	
C 1805	(B,143,27)	CKSRYB102K50		R 293	(B,32,11)	RS1/16SS0R0J	
				R 294	(A,18,28)	RS1/16SS471J	
C 1806	(B,108,19)	CKSRYB105K6R3		R 296	(B,32,30)	RS1/16SS0R0J	
C 1808	(B,135,7)	CKSRYB105K6R3		R 299	(B,31,13)	RS1/16SS0R0J	
C 1891	(B,138,20)	CKSYF106Z10		R 305	(A,60,34)	RS1/16SS183J	
C 1901	(B,99,29)	CKSRYB104K16		R 306	(A,61,37)	RS1/16SS183J	
C 1902	(B,82,24)	CKSRYB103K50					
				R 307	(A,58,34)	RS1/16SS183J	
C 1921	(A,89,25)	CKSRYB105K10		R 308	(A,58,36)	RS1/16SS183J	C
C 1922	(A,89,23)	CKSRYB105K10		R 701	(B,37,21)	RS1/16SS101J	
C 1923	(B,99,22)	CKSRYB105K10		R 702	(B,38,20)	RS1/16SS101J	
				R 706	(B,43,11)	RS1/16SS221J	
				R 708	(A,40,22)	RS1/16SS0R0J	
				R 709	(A,40,21)	RS1/16SS0R0J	
				R 722	(B,37,22)	RS1/16SS0R0J	



Unit Number : CWX3774

Unit Name : CD Core Unit(S11STD-DOUT)

CAPACITORS

MISCELLANEOUS

IC 201	(A,28,33)	IC	PE5706A
IC 301	(A,64,27)	IC	BA5839FP
Q 101	(B,8,56)	Transistor	2SA1577
Q 102	(B,21,51)	Digital TR(PNP)	UNR511MG
X 201	(A,15,27)	Ceramic Resonator	16.934 MHz CSS1603
S 901	(A,42,53)	Switch	CSN1067
S 903	(B,21,12)	Switch	CSN1068
S 905	(B,11,25)	Switch	CSN1068
CN101	(A,16,58)	Connector	CKS4808
CN701	(A,37,10)	Connector	CKS6146

RESISTORS

R 101	(B,6,59)	RS1/10SR2R4J		C 104	(B,11,55)	CKSQYB475K6R3	
R 102	(B,7,59)	RS1/10SR2R4J		C 203	(A,18,35)	CKSSYB104K10	
R 103	(B,8,59)	RS1/10SR2R7J		C 209	(A,17,28)	CKSRYB104K16	D
R 108	(B,19,53)	RS1/16SS105J		C 210	(A,21,21)	CKSSYB104K10	
R 109	(B,11,52)	RS1/16SS222J		C 211	(A,24,23)	CKSSYB104K10	
R 214	(A,38,41)	RS1/16SS103J		C 212	(A,38,33)	CKSSYB104K10	
R 215	(A,38,40)	RS1/16SS393J		C 213	(A,40,41)	CKSSYB332K50	
R 216	(A,30,44)	RS1/16SS122J		C 214	(A,40,40)	CKSSYB473K10	
R 217	(A,33,46)	RS1/16SS562J		C 215	(A,38,37)	CKSSYB104K10	
R 218	(A,30,46)	RS1/16SS472J		C 216	(A,36,46)	CKSSYB182K50	
R 225	(A,33,23)	RS1/16SS0R0J		C 217	(A,31,46)	CCSSCH560J50	
R 229	(A,31,44)	RS1/16SS471J		C 218	(A,29,46)	CCSSCH4R0C50	
				C 219	(A,32,43)	CKSSYB104K10	E
				C 220	(B,32,41)	CKSSYB104K10	
				C 221	(A,35,43)	CKSSYB104K10	
				C 222	(A,29,43)	CKSSYB104K10	
				C 223	(A,25,44)	CCSSCH680J50	
				C 224	(A,23,44)	CCSSCH470J50	
				C 225	(A,20,43)	CKSSYB103K16	
				C 228	(A,32,46)	CCSSCH270J50	
				C 229	(B,28,40)	CKSSYB104K10	
				C 231	(B,44,28)	CKSSYB102K50	
				C 232	(B,45,28)	CKSSYB102K50	
				C 233	(B,25,25)	CKSSYB103K16	F
				C 236	(B,26,41)	CKSSYB104K10	
				C 238	(A,15,35)	CKSRYB104K16	

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

C 299	(A,17,33)	CKSSYB104K10
C 304	(A,60,35)	CKSSYB472K25
C 305	(A,58,35)	CKSSYB223K16
C 306	(A,68,20)	CKSRYB105K10
C 710	(B,43,10)	CKSSYB102K50

D

Unit Number: CWN4816(A,B,C)

Unit Name : SD Unit

MISCELLANEOUS

CN1202	(A,33,43)	VKN1302
CN1203	(A,23,19) Connector	CKS6180

Miscellaneous Parts List

M 1	Pickup Unit(S10.5)(Service)	CXX1942
M 2	Motor Unit(SPINDLE)	CXE2273
	Motor Unit(LOADING/CARRIAGE)	CXC4026

DEH-4250SD/XNES

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