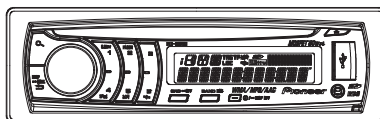


Service Manual



DEH-6350SD/XSES

ORDER NO.
CRT4641

CD RDS RECEIVER

DEH-6350SD /XSES

DEH-6350SD /XSCN5

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

Model No.	Order No.	Mech. Module	Remarks
CX-3269	CRT4488	S11.1STD-DOUT	CD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly



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

SAFETY INFORMATION

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, and contains a class 1M laser module. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

CLASS 1 LASER PRODUCT

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

WARNING!

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

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

Laser diode characteristics

Wave length : 785 nm to 814 nm

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

Additional Laser Caution

Transistors Q101 in PCB drive the laser diodes.

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

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

CAUTION

Danger of explosion if battery is incorrectly replaced.

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

Discord used batteries according to the manufacture's instructions.

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[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification (addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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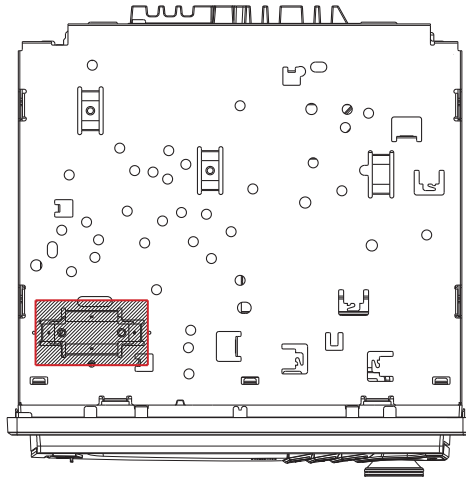
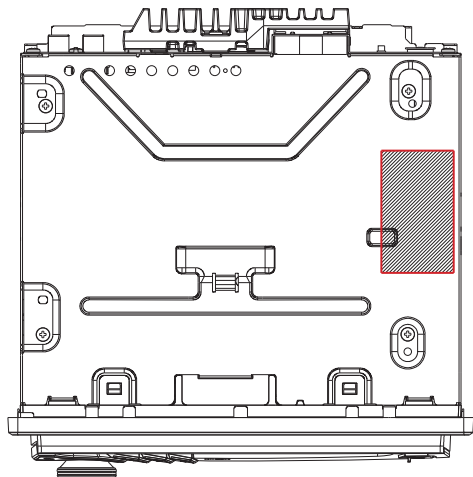
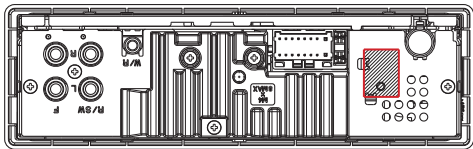
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1. SERVICE PRECAUTIONS

1.1 SERVICE PRECAUTIONS



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



7. Notes on replacing parts
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.

ASSY NAME	Ref No.	Part No.	Remarks
Tuner Amp Unit	IC601	PEG640A8	0.3 mm
	IC401	TDA7706	0.3 mm
	IC501	R5S7262ZD144FPU	0.3 mm
	IC571	CWW2867	0.3 mm

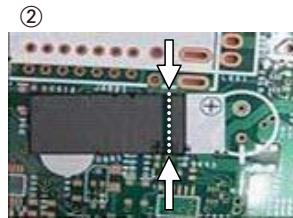
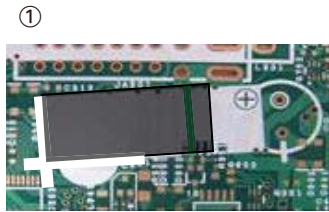
8. How to Handle Infrared Detecting unit for Remote Control of Grille
The infrared detecting unit for remote control of keyboard unit is not fixed with cushion, etc.
When external force is applied on the infrared detecting unit for remote control, the light receiving sensitivity might be deteriorated since the lead bents and attaching angle of the light receiving part may be varied.
Please do not apply external force onto the infrared detecting unit for remote control. If any external force is applied by mistake, please confirm whether lead bending may exist or not.
If the lead is bent, please correct the angle between the lead and the light receiving part to be 90 degrees or replace the infrared detecting unit for remote control (GP1UXC14RK).

9. Capacitor Bond Lock (CN5)

Acetate Tape (GYH1026)

- ① Please stick acetate tape along white line.
- ② Please confirm line hiding with acetate tape.

* length of tape : 24 ± 4 mm



10. Capacitor Bond Lock (ES)

Silicon Glue (GEM1017)

Place the capacitor in the center of the silk print, and confirm it does not touch to the connector. Then, apply silicon glue.



OK



NG



1.2 NOTES ON SOLDERING

A

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

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

B

- The following lead-free solders are available as service parts:
- Parts numbers of lead-free solder:
GYP1006 1.0 in dia.
GYP1007 0.6 in dia.
GYP1008 0.3 in dia.

C

■

D

■

E

■

F

2. SPECIFICATIONS

2.1 SPECIFICATIONS

• DEH-6350SD/XSES

General

Power source	14.4 V DC (12.0 V to 14.4 V allowable)
Grounding system	Negative type
Maximum current consumption	10.0 A
Backup current	5.0 mA or less
Dimensions (W × H × D):	
DIN	
Chassis	178 mm × 50 mm × 165 mm
Nose	188 mm × 58 mm × 18 mm
D	
Chassis	178 mm × 50 mm × 165 mm
Nose	170 mm × 46 mm × 18 mm
Weight	1.16 kg

Audio

Maximum power output	50 W × 4 70 W × 1/2 Ω (for subwoofer)
Continuous power output	22 W × 4 (50 Hz to 15 000 Hz, 5 % THD, 4 Ω load, both channels driven)
Load impedance	4 Ω (4 Ω to 8 Ω allowable)
Preout maximum output level	4.0 V
Equalizer (5-Band Graphic Equalizer):	
Frequency	100/315/1.25k/3.15k/8k Hz
Gain	±12 dB
HPF:	
Frequency	50/63/80/100/125 Hz
Slope	-12 dB/oct
Subwoofer (mono):	
Frequency	50/63/80/100/125 Hz
Slope	-18 dB/oct
Gain	+6 dB to -24 dB
Phase	Normal/Reverse
Bass boost:	
Gain	+12 dB to 0 dB

CD player

System	Compact disc audio system
Usable discs	Compact disc
Signal-to-noise ratio	94 dB (1 kHz) (IEC-A network)
Number of channels	2 (stereo)
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes encoded only) (.m4a) (Ver. 9.2 and earlier)
WAV signal format	Linear PCM & MS ADPCM (Non-compressed)

USB

USB standard specification	USB 2.0 full speed
Maximum current supply	500 mA
USB Class	MSC (Mass Storage Class)
File system	FAT12, FAT16, FAT32
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes encoded only) (.m4a) (Ver. 9.2 and earlier)
WAV signal format	Linear PCM & MS ADPCM (Non-compressed)

SD

Compatible physical format	Version 2.00
Maximum memory capacity	32 GB (for SD and SDHC)
File system	FAT12, FAT16, FAT32
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes encoded only) (.m4a) (Ver. 9.2 and earlier)
WAV signal format	Linear PCM & MS ADPCM (Non-compressed)

FM tuner

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

AM tuner

Frequency range	531 kHz to 1 602 kHz (9 kHz) 530 kHz to 1 640 kHz (10 kHz)
Usable sensitivity	25 μV (S/N: 20 dB)
Signal-to-noise ratio	62 dB (IEC-A network)

Infrared remote control

Wavelength	940 nm ±50 nm
Output	typ; 12 mw/sr per Infrared LED

Note

Specifications and the design are subject to modifications without notice.

• DEH-6350SD/XSCN5

规格

一般

电源 14.4 V DC (容许范围12.0 V
至14.4 V)

接地系统 负板型

最大电流消耗 10.0 A

Backup current 5.0 mA or less

尺寸 (宽×高×深) :

DIN

机身 178 mm × 50 mm × 165 mm

前端部分 188 mm × 58 mm × 18 mm

D

机身 178 mm × 50 mm × 165 mm

前端部分 170 mm × 46 mm × 18 mm

质量 1.16 kg

音频

连续功率输出 21 W × 4 (1 kHz, 5% THD
(总谐波失真), 4 Ω负
载, 双声道驱动)

负载阻抗 4 Ω (容许范围4 Ω至8 Ω)

前输出最大输出电平 4.0 V

均衡器 (5频图形均衡器) :

频率 100/315/1.25k/3.15k/8k
Hz

增益 ±12 dB

HPF:

频率 50/63/80/100/125 Hz

斜率 -12 dB/oct

超低音扬声器 (单声道) :

频率 50/63/80/100/125 Hz

斜率 -18 dB/oct

增益 +6 dB至-24 dB

相位 正相 / 反相

低压增强:

增益 +12 dB至0 dB

CD播放机

系统 CD音频系统

可用碟片 CD

信噪比 90 dB (1 kHz) (IEC-A网
络)

声道数 2 (立体声)

MP3解码格式 MPEG-1 & 2 Audio Layer 3
WMA解码格式 版本. 7、7.1、8、9、10、
11、12 (双声道音频)
(Windows Media Player)

AAC解码格式 MPEG-4 AAC (仅iTunes编
码) (.m4a)
(9.2版本及更早版本)

WAV信号格式 线性PCM & MS ADPCM
(非压缩)

USB

USB标准规格 USB 2.0全速

最大电流 500 mA

USB等级 MSC (大容量存储等级)

文件系统 FAT12、FAT16、FAT32

MP3解码格式 MPEG-1 & 2 Audio Layer 3

WMA解码格式 版本. 7、7.1、8、9、10、
11、12 (双声道音频)
(Windows Media Player)

AAC解码格式 MPEG-4 AAC (仅iTunes编
码) (.m4a)
(9.2版本及更早版本)

WAV信号格式 线性PCM & MS ADPCM
(非压缩)

SD

兼容物理格式 版本2.00

最大存储容量 32 GB (对于SD和SDHC)

文件系统 FAT12、FAT16、FAT32

MP3解码格式 MPEG-1 & 2 Audio Layer 3

WMA解码格式 版本. 7、7.1、8、9、10、
11、12 (双声道音频)
(Windows Media Player)

AAC解码格式 MPEG-4 AAC (仅iTunes编
码) (.m4a)
(9.2版本及更早版本)

WAV信号格式 线性PCM & MS ADPCM
(非压缩)

FM调谐器

频率范围 87.5 MHz至108.0 MHz

有效灵敏度 11 dBf (1.0 μV/75 Ω, 单
声道, S/N: 30 dB)

信噪比 61 dB (IEC-A网络)

AM调谐器

频率范围 531 kHz至1 602 kHz (9
kHz)

530 kHz至1 640 kHz (10
kHz)

有效灵敏度 30 μV (S/N: 20 dB)

信噪比 61 dB (IEC-A网络)

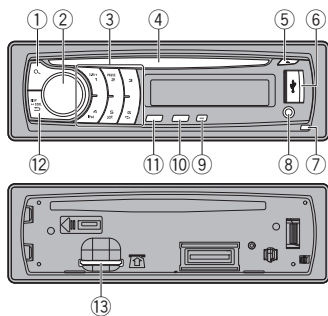
注意

规格和设计将会不断修改, 不作另行通知。☐

2.2 DISC/CONTENT FORMAT



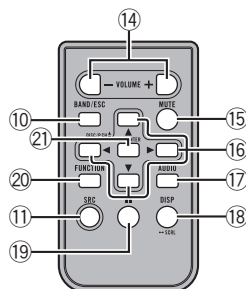
Head unit



Part	Part
① (list)	⑧ AUX input jack (3.5 mm stereo jack)
② MULTI-CONTROL (M.C.)	⑨ /DISP OFF
③ 1 to 6	⑩ BAND/ESC
④ Disc loading slot	⑪ SRC/OFF
⑤ (eject)	⑫ /DISP/SCRL
⑥ USB port	⑬ Removing the front panel, you can see the SD memory card slot.
⑦ Detach button	

CAUTION
Use an optional Pioneer USB cable (CD-U50E) to connect the USB audio player/USB memory as any device connected directly to the unit will protrude out from the unit and may be dangerous.
Do not use unauthorized products.

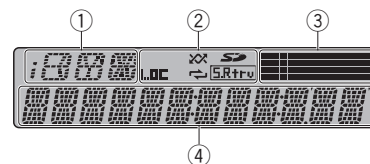
Remote control



Part	Operation
⑭ VOLUME	Press to increase or decrease volume.
⑮ MUTE	Press to mute. Press again to unmute.

⑯ ▲/▼/◀/▶	Press to perform manual seek tuning, fast forward, reverse and track search controls. Also used for controlling functions.
⑰ AUDIO	Press to select an audio function.
⑱ DISP/SCRL	Press to select different displays. Press and hold to scroll through the text information.
⑲ II	Press to pause or resume playback.
⑳ FUNC-TION	Press to select functions. Press and hold to recall the initial setting menu when the sources are off.
㉑ LIST/ENTER	Press to display the list depending on the source. While in the operating menu, press to control functions.

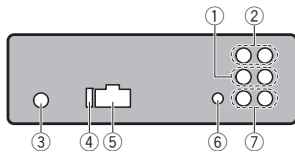
Display indication



Indicator	State
① Information display section	Source, band, and menu operation guides are displayed.
LOC	Local seek tuning is on.
(random)	The random function is on.
(shuffle)	The iPod source is selected and the shuffle or shuffle all function is on.
② (repeat)	The repeat function is on.
(SD memory card)	SD/SDHC memory card is inserted.
(sound retriever)	The sound retriever function is on.
③ Level meter display section	The levels of the audio outputs are displayed.
④ Main display section	Tuner: frequency Built-in CD, external storage device (USB, SD) and iPod: elapsed playback time and text information

2.4 CONNECTION DIAGRAM

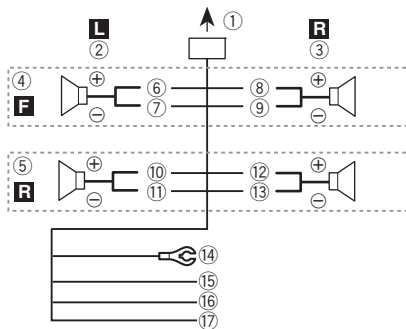
This unit



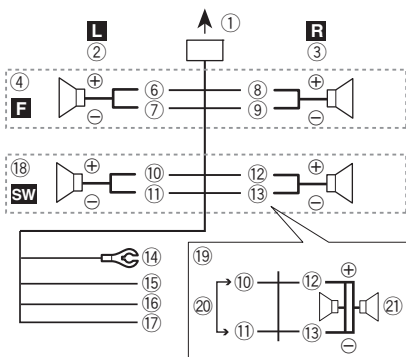
- ① Front output
- ② Rear output
- ③ Antenna input
- ④ Fuse (10 A)
- ⑤ Power cord input
- ⑥ Wired remote input
Hard-wired remote control adaptor can be connected (sold separately).
- ⑦ Subwoofer output

Power cord

Perform these connections when not connecting a rear speaker lead to a subwoofer.



Perform these connections when using a subwoofer without the optional amplifier.



- ① To power cord input
- ② Left
- ③ Right
- ④ Front speaker
- ⑤ Rear speaker
- ⑥ White
- ⑦ White/black
- ⑧ Gray
- ⑨ Gray/black
- ⑩ Green
- ⑪ Green/black
- ⑫ Violet
- ⑬ Violet/black
- ⑭ Black (chassis ground)
Connect to a clean, paint-free metal location.

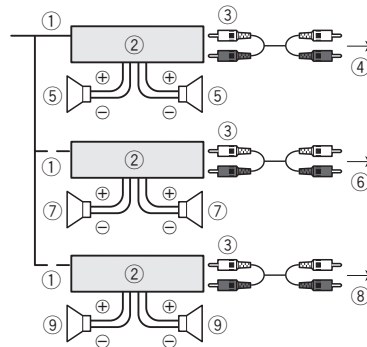
- ⑮ Yellow
Connect to the constant 12 V supply terminal.
- ⑯ Red
Connect to terminal controlled by ignition switch (12 V DC).
- ⑰ Blue/white
Connect to system control terminal of the power amp or auto-antenna relay control terminal (max. 300 mA 12 V DC).
- ⑱ Subwoofer (4 Ω)
- ⑲ When using a subwoofer of 70 W (2 Ω), be sure to connect the subwoofer to the violet and violet/black leads of this unit. Do not connect anything to the green and green/black leads.
- ⑳ Not used.
- ㉑ Subwoofer (4 Ω) × 2

Notes

- With a 2 speaker system, do not connect anything to the speaker leads that are not connected to speakers.
- Change the initial setting of this unit. Refer to **SW CONTROL** (rear output and subwoofer setting).
The subwoofer output of this unit is monaural.

Power amp (sold separately)

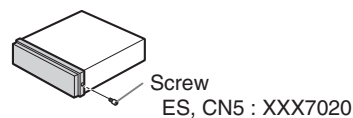
Perform these connections when using the optional amplifier.



- ① System remote control
Connect to Blue/white cable.
- ② Power amp (sold separately)
- ③ Connect with RCA cables (sold separately)
- ④ To Rear output
- ⑤ Rear speaker
- ⑥ To Front output
- ⑦ Front speaker
- ⑧ To subwoofer output
- ⑨ Subwoofer

Fastening the front panel

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



3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

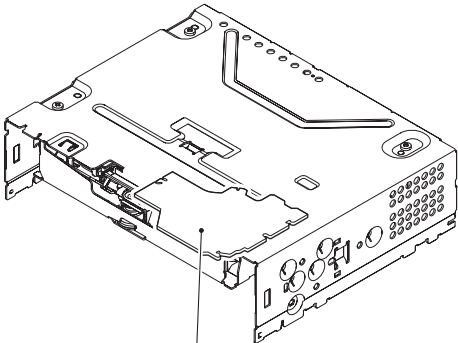
To keep the product quality after servicing, please confirm following check points.

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

A



B

C CD Core Unit (S11.1STD-DOUT)

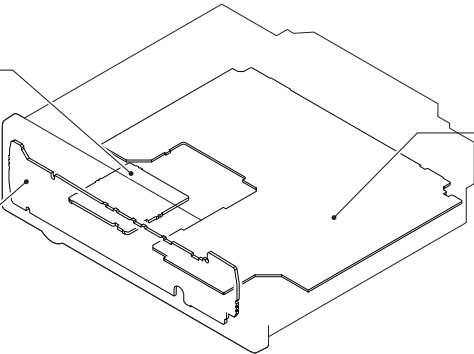
- A:DEH-6350SD/XSES
- B:DEH-6350SD/XSCN5
- Unit Number : YWM5508(A)
- Unit Number : YWM5512(B)
- Unit Name : Tuner Amp Unit
- Unit Number : (A)
- Unit Number : (B)
- Unit Name : Keyboard Unit
- Unit Number : CWX3985
- Unit Name : CD Core Unit(S11.1STD-DOUT)
- Unit Number : YWM5516
- Unit Name : SD Unit

C

D SD Unit

B Keyboard Unit

A Tuner Amp Unit



D

E

F

3.3 JIGS LIST

● Jigs List

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

● Grease List

Name	Grease No.	Remarks
Grease	GEM1024	CD Mechanism Module
Grease	GEM1038	CD Mechanism Module
Grease	GEM1043	CD Mechanism Module
Grease	GEM1045	CD Mechanism Module
Silicon Glue	GEM1017	Capacitor Bond Lock

3.4 CLEANING



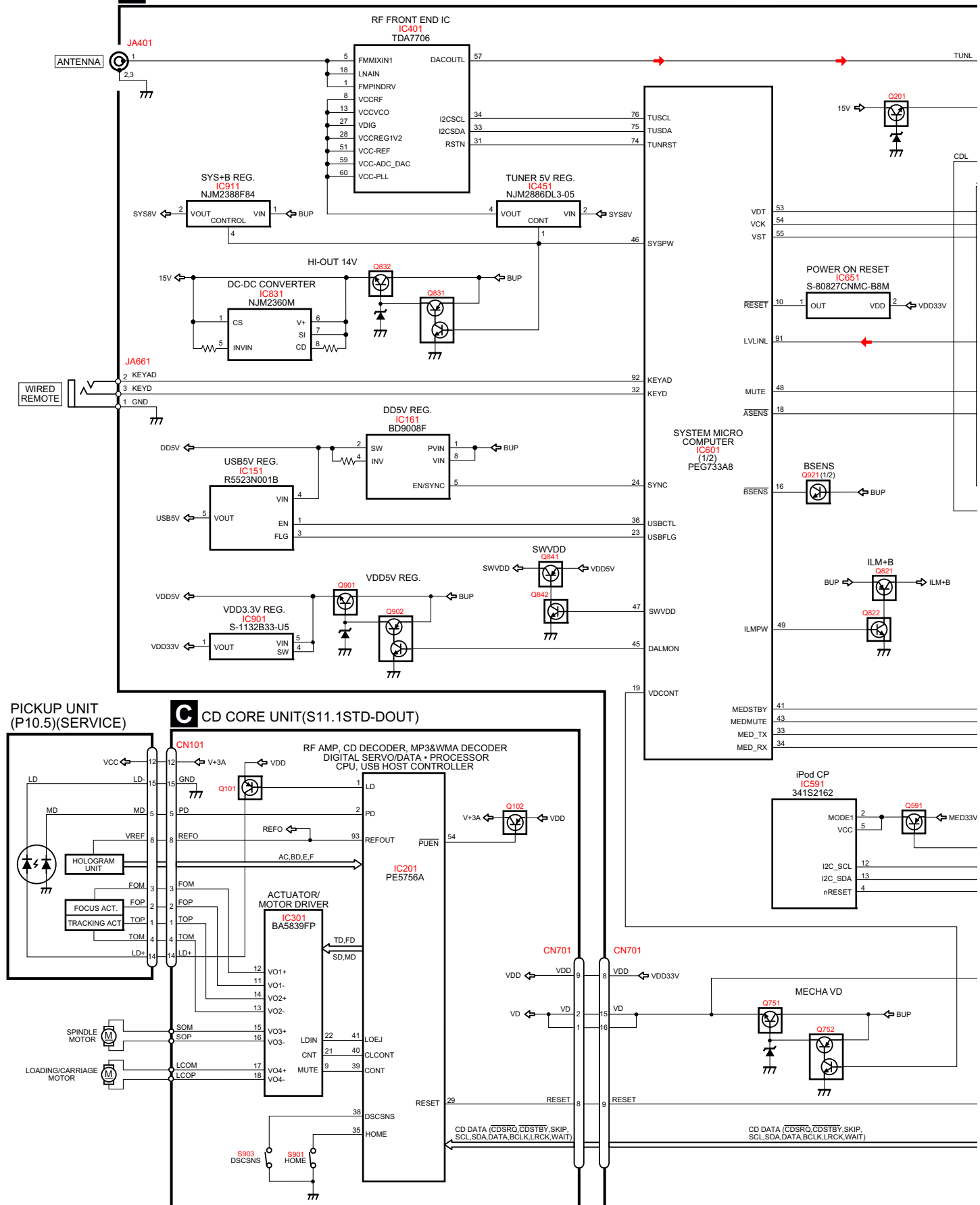
Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

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

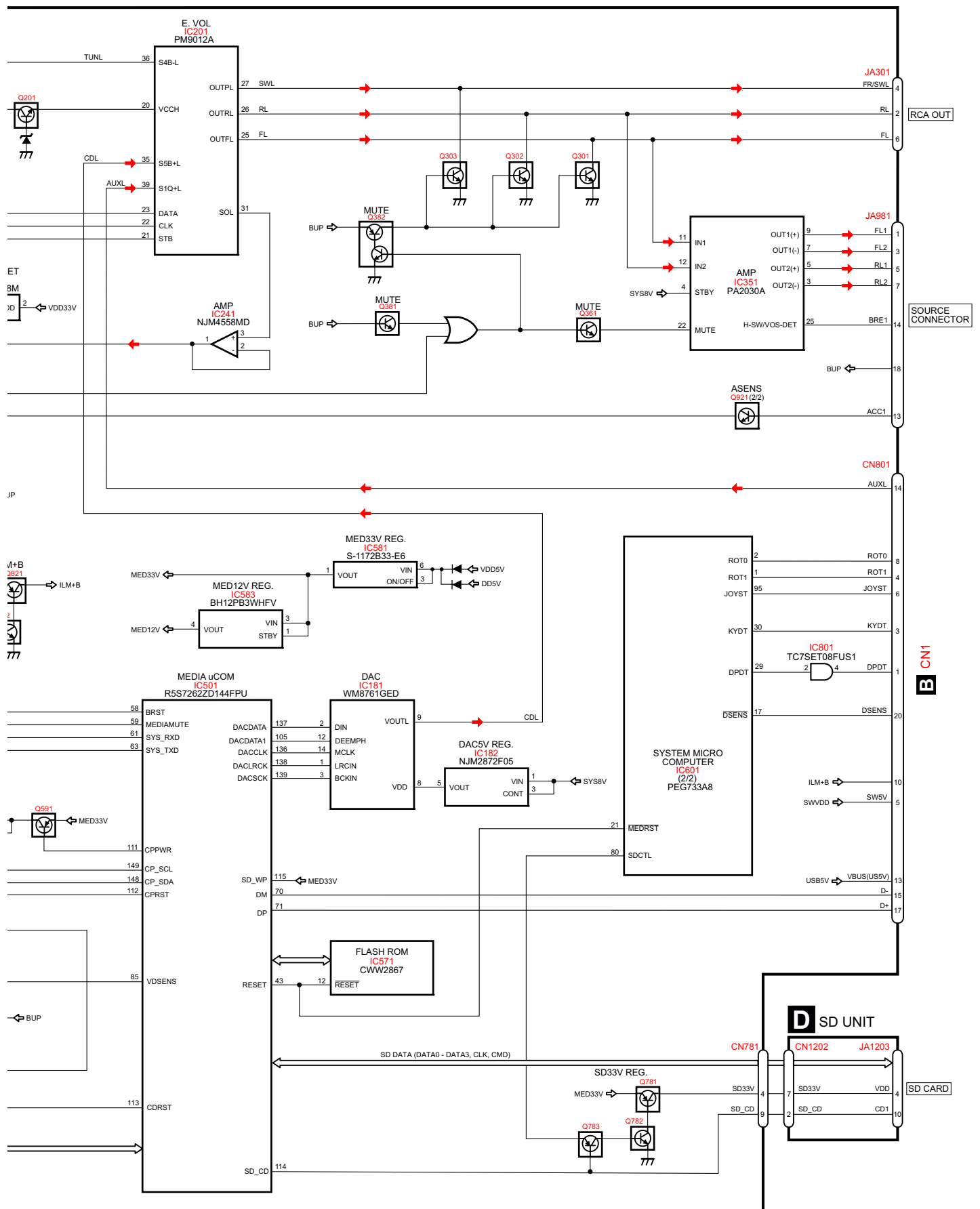
4. BLOCK DIAGRAM

4.1 BLOCK DIAGRAM

A TUNER AMP UNIT



DEH-6350SD/XSES



B KEYBOARD UNIT

A

B

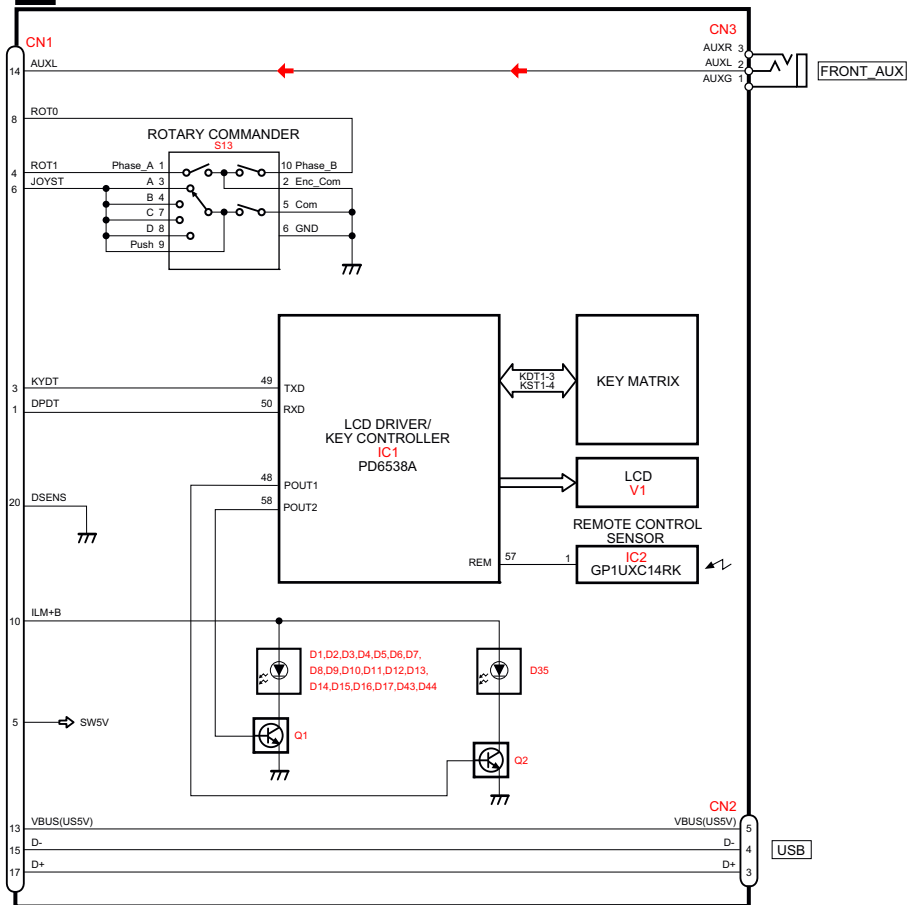
C

D

E

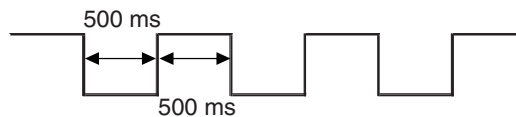
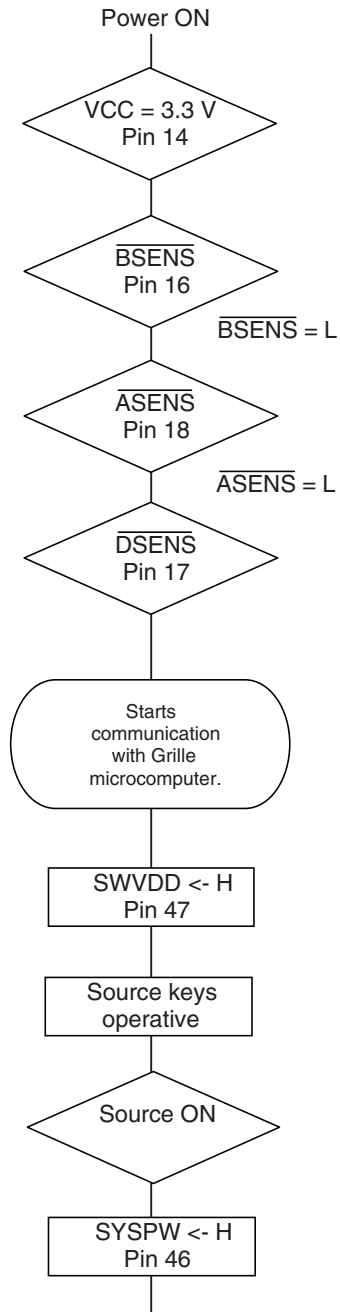
F

A CN801



5. DIAGNOSIS

5.1 OPERATIONAL FLOWCHART



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

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

5.2 ERROR CODE LIST

A ● 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.

- B
- 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	6-digit display	4-digit display
ERROR-xx	ERR-xx	E-xx

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

C

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.

E

NOTES

- F
- 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

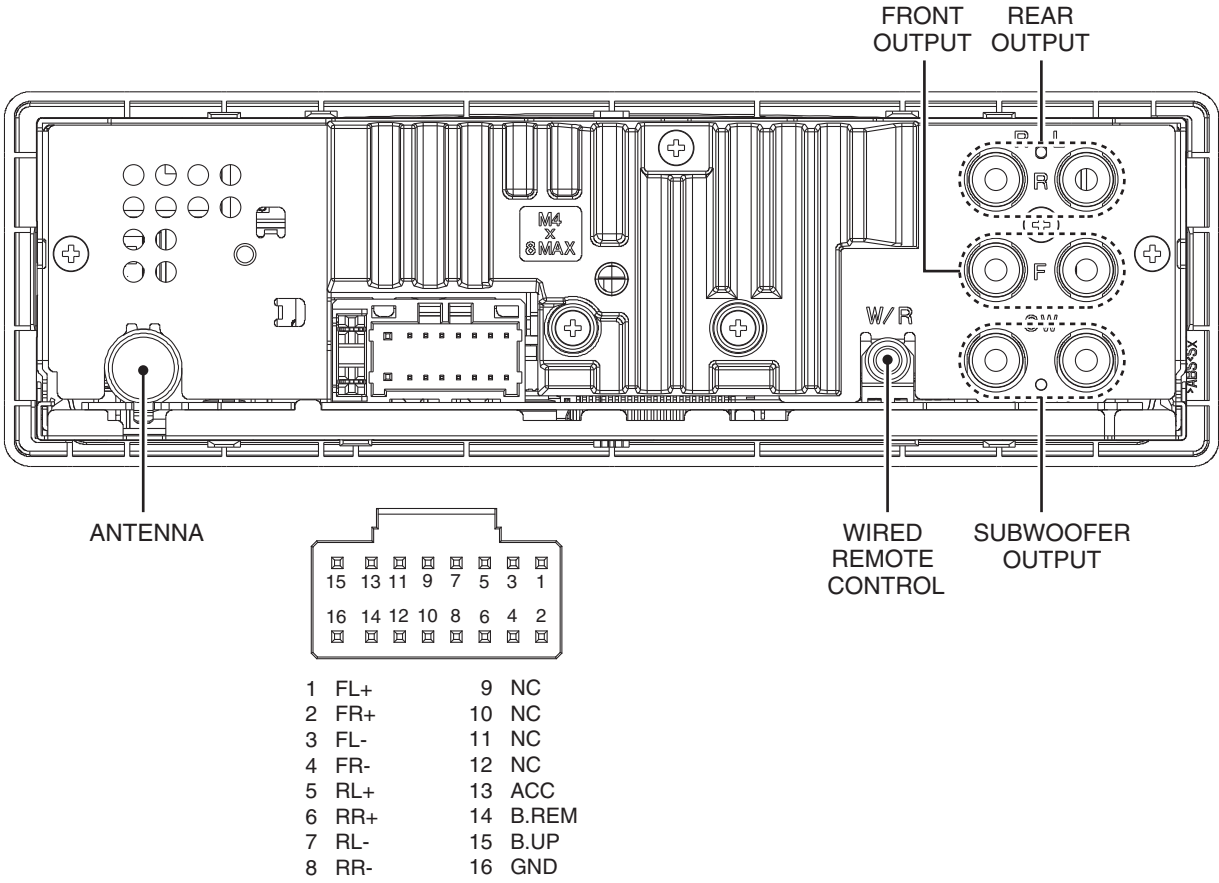
External storage device (USB, SD/iPod)

Message	Cause	Action
NO DEVICE	When plug and play is off, no USB storage device or iPod is connected.	• Turn the plug and play on. • Connect a compatible USB storage device/iPod.
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 storage device and connect.
	The connected USB storage device has security enabled	Follow the USB storage device instructions to disable the security.
SKIPPED	The connected USB storage device contains files embedded with Windows Media™DRM 9/10	Play an audio file not embedded with Windows Media DRM 9/10.
PROTECT	All the files in the USB storage device are embedded with Windows Media DRM 9/10	Transfer audio files not embedded with Windows Media DRM 9/10 to the USB storage device and connect.
N/A USB	The connected USB storage device is not supported by this unit.	• Connect a USB Mass Storage Class compliant device. • Disconnect your device and replace it with a compatible USB storage device.
	Non-compatible iPod	Disconnect your device and replace it with a compatible iPod.
N/A SD	Non-compatible SD storage device	Remove your device and replace it with a compatible SD storage device.
CHECK USB	The USB connector or USB cable has short-circuited.	Check that the USB connector or USB cable is not caught in something or damaged.
	The connected USB storage device consumes more than 500 mA (maximum allowable current).	Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect only compliant USB storage devices.

Message	Cause	Action
	The iPod operates correctly but does not charge	Make sure the connection cable for the iPod has not shorted out (e.g., not caught in metal objects). After checking, turn the ignition switch OFF and back ON, or disconnect the iPod and reconnect.
ERROR-19	Communication failed.	• Perform one of the following operations. –Turn the ignition switch OFF and back ON. –Disconnect or eject the external storage device. –Change to a different source. Then, return to the USB or SD source. • Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
	iPod failure	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
ERROR-23	USB storage device was not formatted with FAT12, FAT16 or FAT32	USB storage device should be formatted with FAT12, FAT16 or FAT32.
ERROR-16	The iPod firmware version is old	Update the iPod version.
	iPod failure	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
STOP	There are no songs in the current list.	Select a list that contains songs.
NOT FOUND	No related songs	Transfer songs to the iPod.

1 2 3 4

5.3 CONNECTOR FUNCTION DESCRIPTION



6. SERVICE MODE

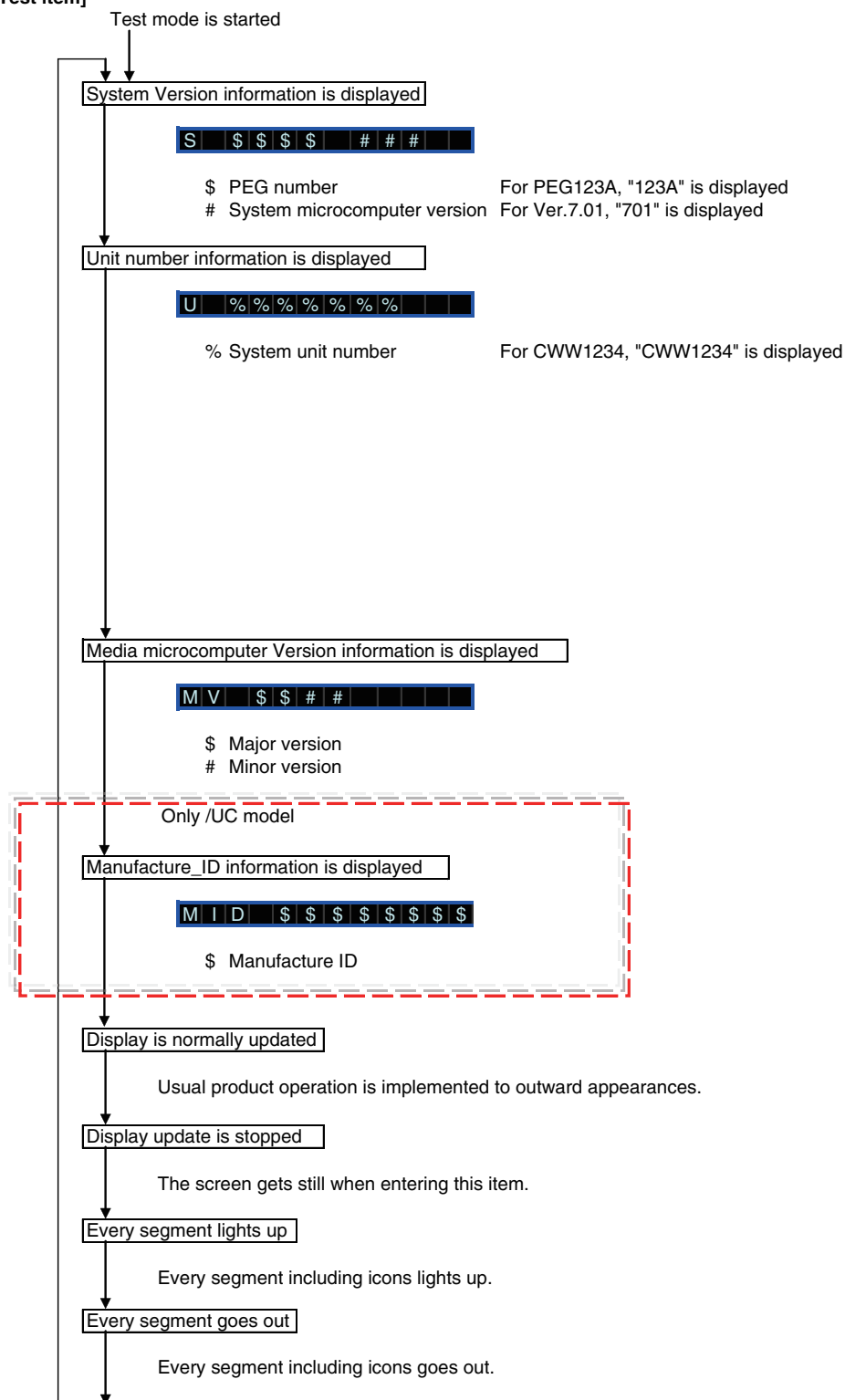
6.1 DISPLAY TEST MODE

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
BAND + 1 KEY	Switching to next test display	Also used as an entry key

[Test item]

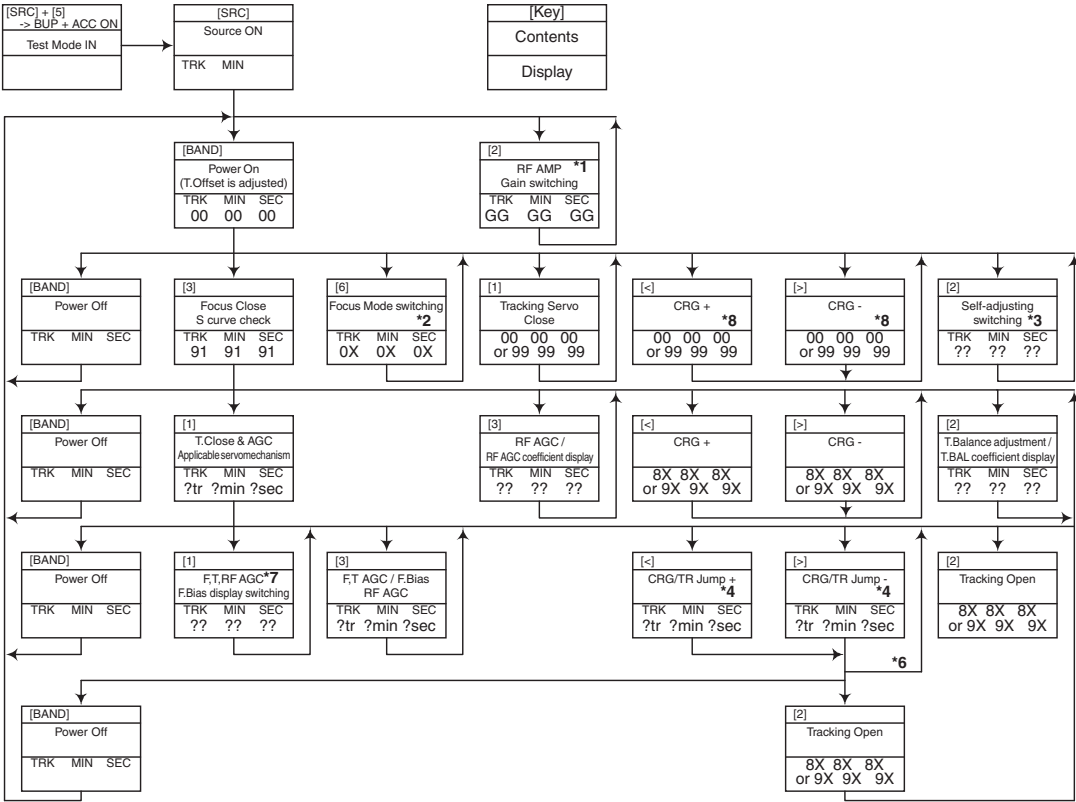


1 2 3 4

6.2 CD TEST MODE

A

Flow Chart



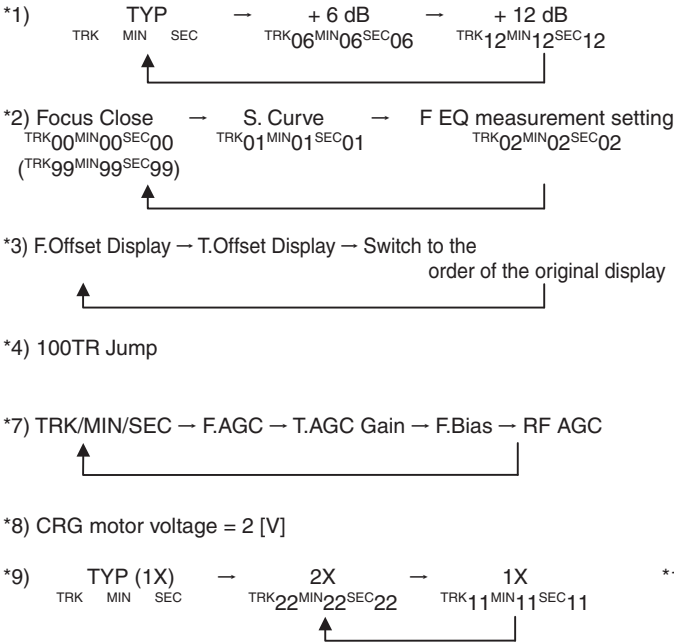
B

C

D

E

F



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

- 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 Panel Assy (Fig.1)

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

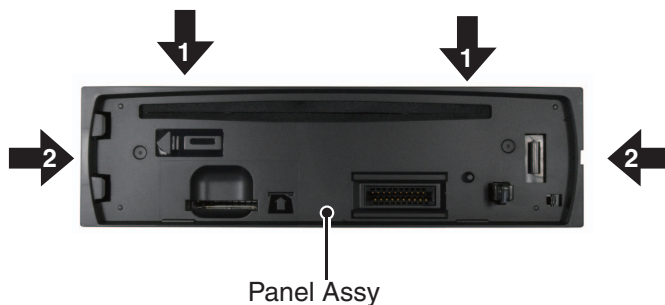


Fig.1

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

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

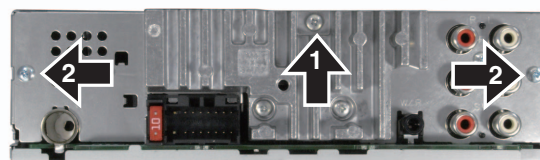


Fig.2

The CD Mechanism Module side is made a bottom.

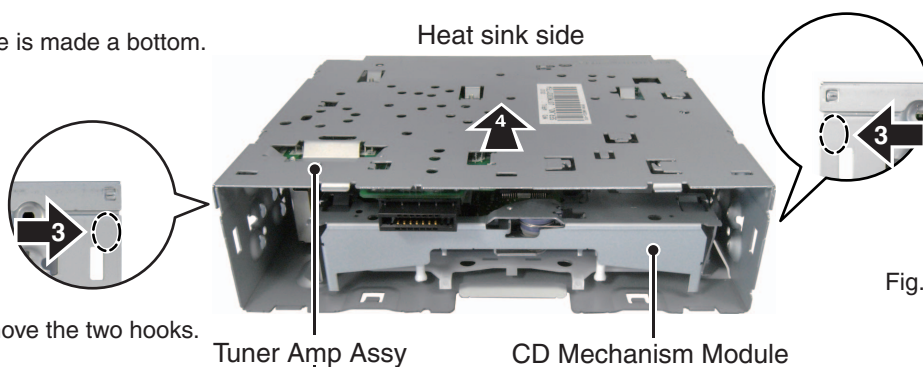


Fig.3

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

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

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

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

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

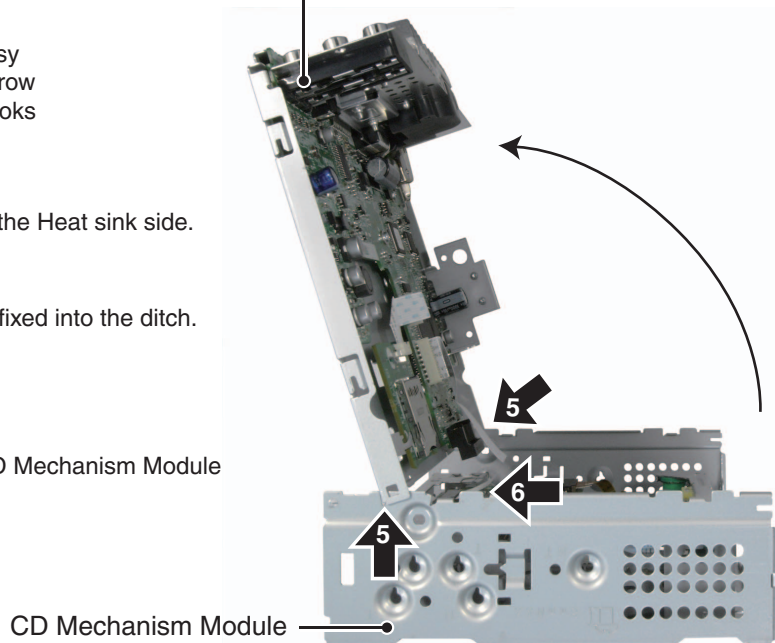


Fig.4

A

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

B

- ➡ 1 Disconnect the FFC.
- ➡ 2 Straighten the three tabs at two locations indicated and then remove the SD Unit.

B

- ➡ 3 Remove the two screws.

B

- ➡ 4 Straighten the three tabs at two locations indicated and then remove the Tuner Amp Unit.

C

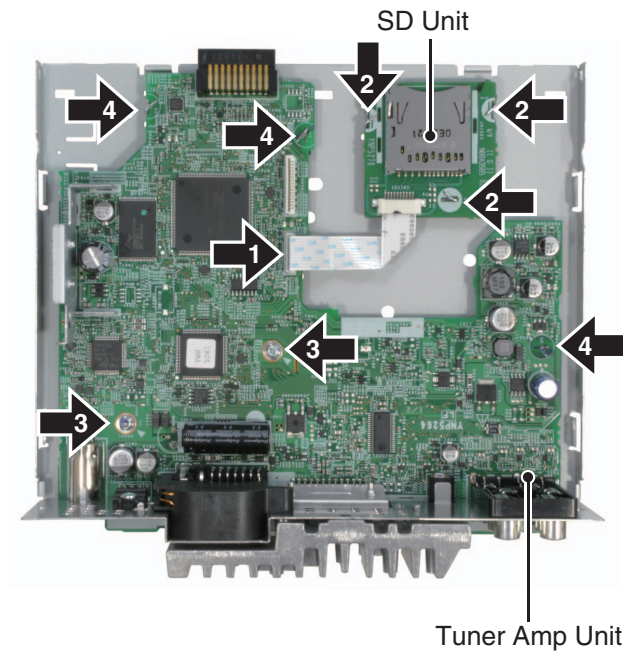


Fig.5

● Attention of removing (Fig.6)

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

D

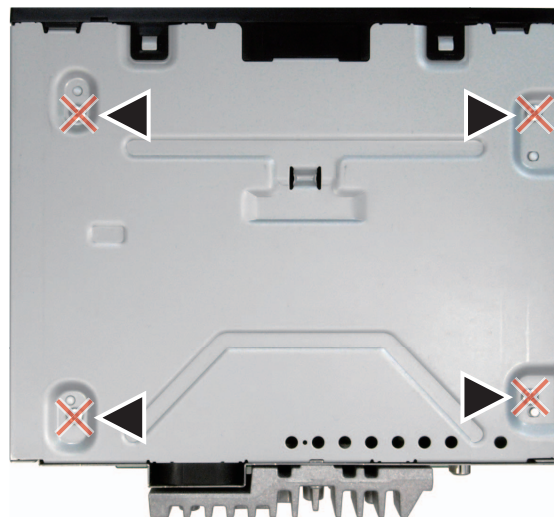


Fig.6

E

F

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

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

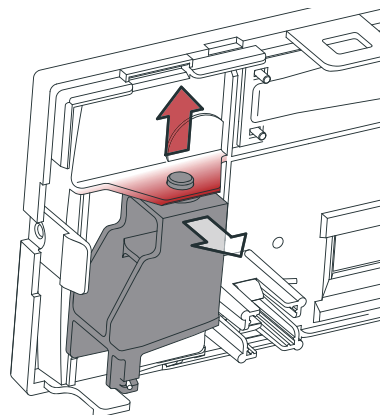


Fig.7

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

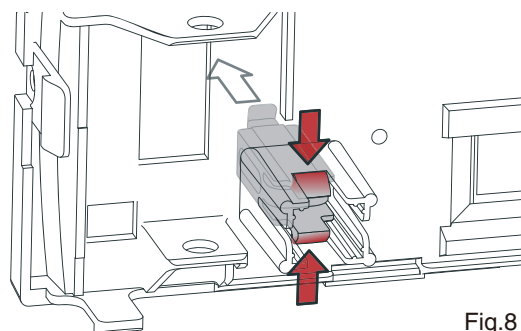


Fig.8

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

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

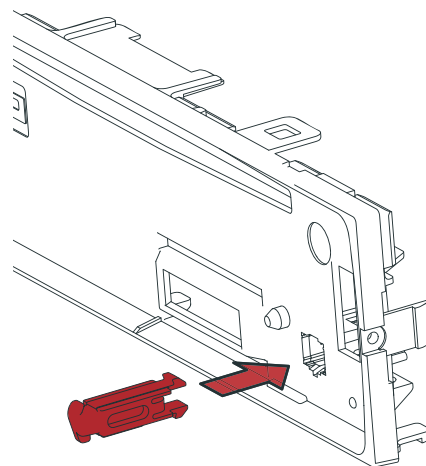


Fig.9

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

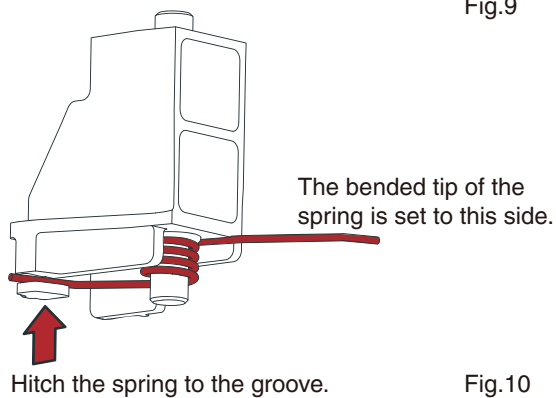


Fig.10

A 3. Fit the spring in the groove at the position shown in the figure.

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

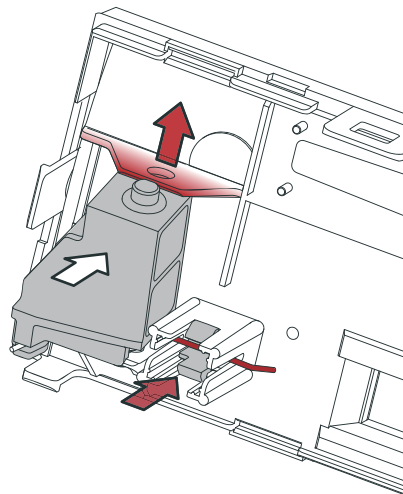


Fig.11

B

C

D

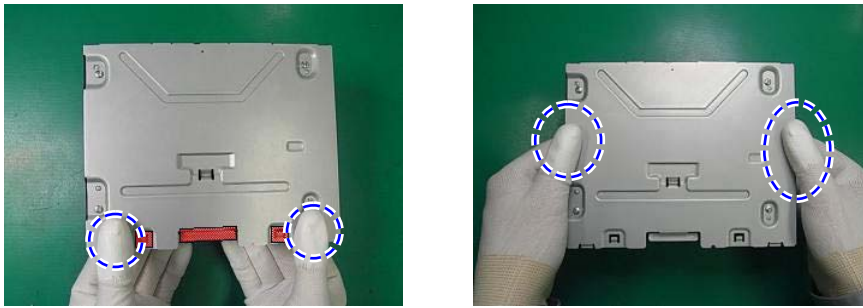
E

F

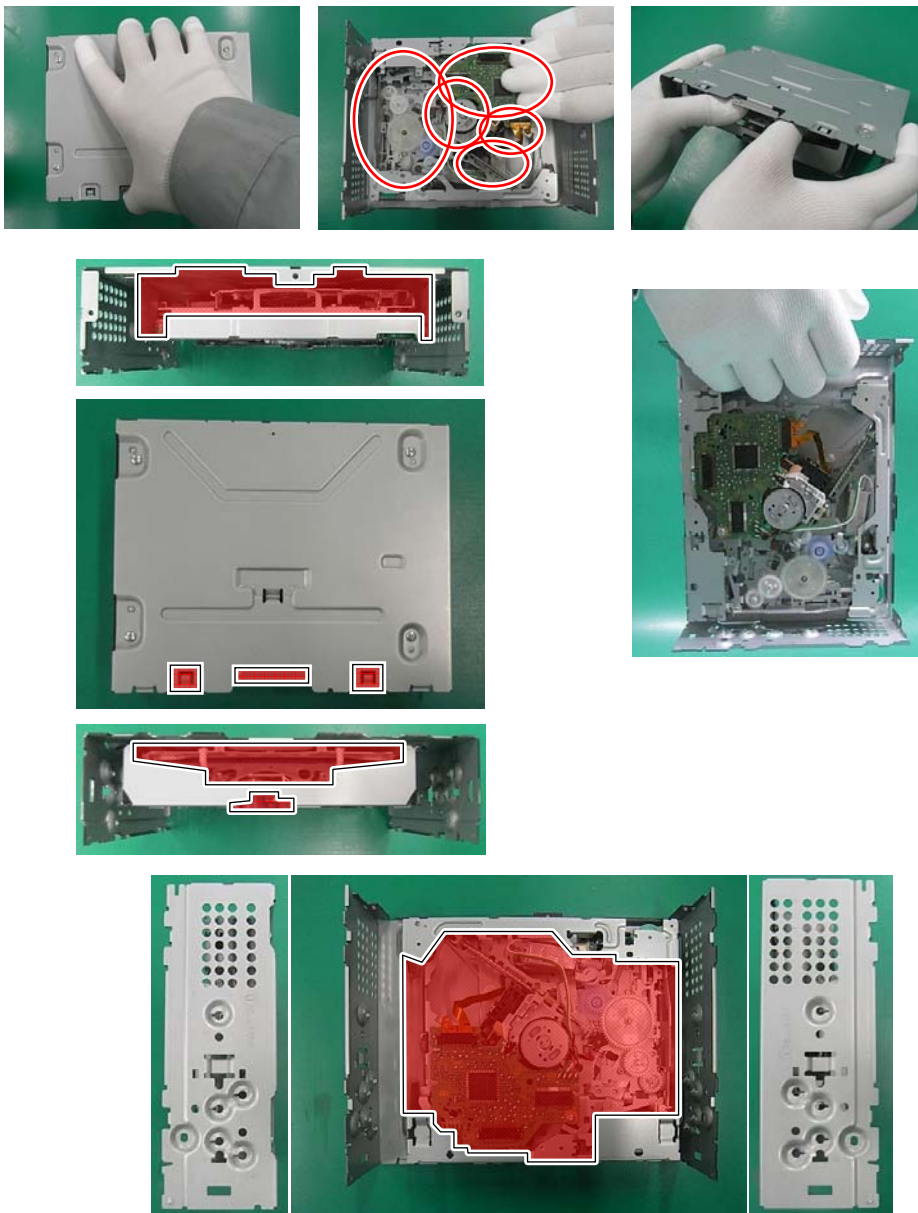
● How to carry the mecha unit

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

Correct way of holding the unit



Incorrect way of holding the unit



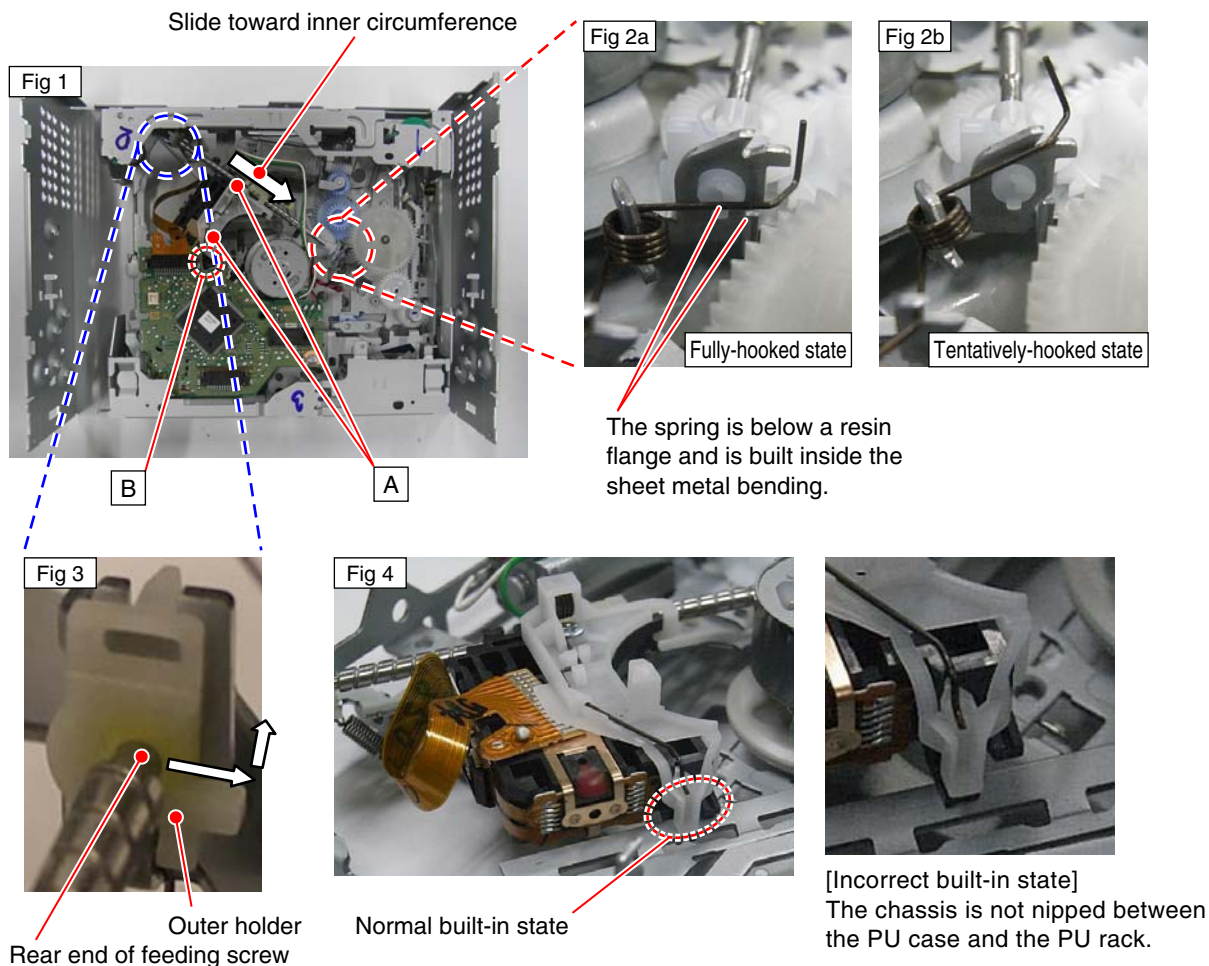
● How to remove the PU unit

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.



● How to move the PU to the outer circumference

1. Create an empty clamp state according to “How to create empty clamp state of mecha module”.
 2. Apply 1.5 V to the CRG motor and move the PU to the outer circumference.
- (Caution) After moving the PU to the outer circumference and performing necessary treatment, make sure to solder the lead wires.

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.
[SRC] + [5] -> BUP + ACC ON

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

Notes:

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

8.2 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT



• Note :

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

• Purpose :

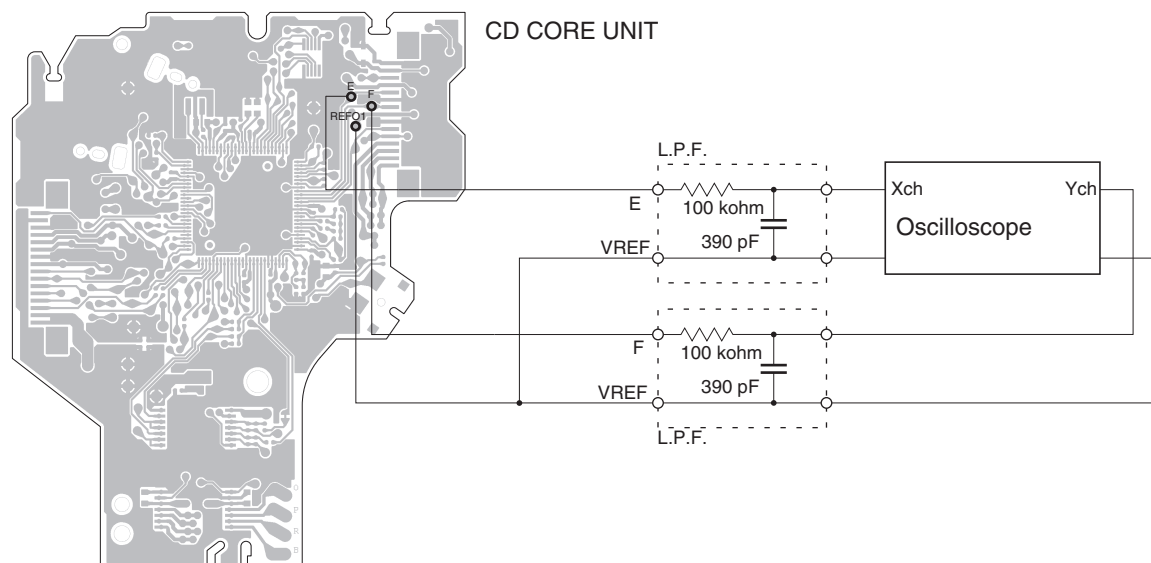
To check that the grating is within an acceptable range when the PU unit is changed.

• Symptoms of Mal-adjustment :

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

• Method :

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



• Checking Procedure

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

• Note

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

• Hint

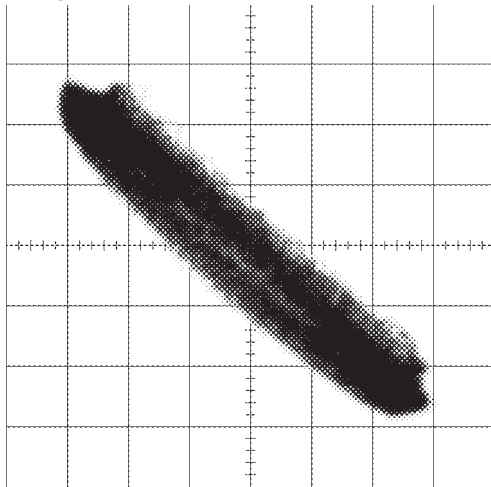
Reloading the disc changes the clamp position and may decrease the "wobble".

Grating waveform

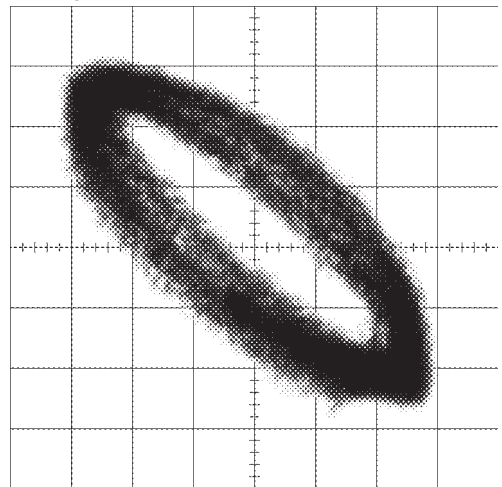
Ech -> Xch 20 mV/div, AC

Fch -> Ych 20 mV/div, AC

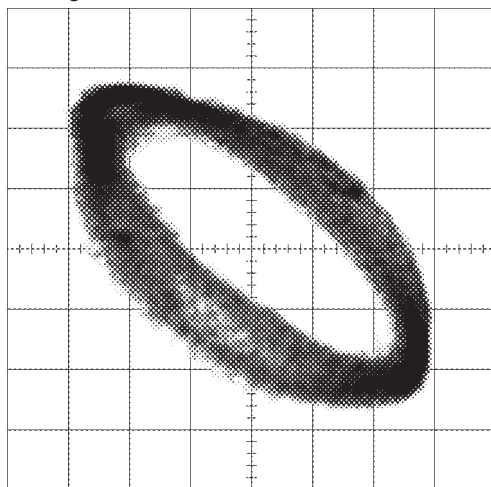
0 degrees



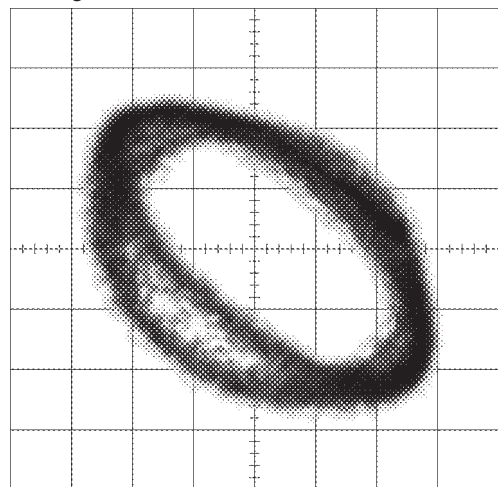
30 degrees



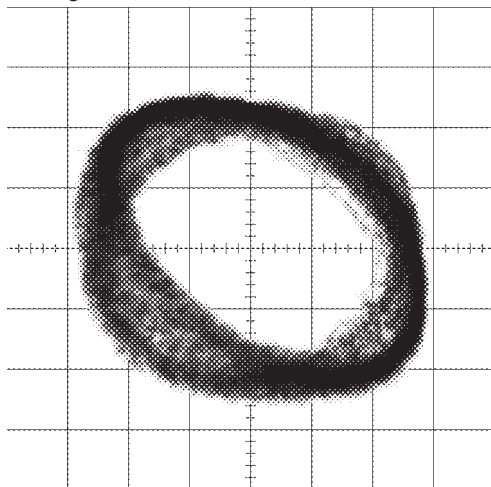
45 degrees



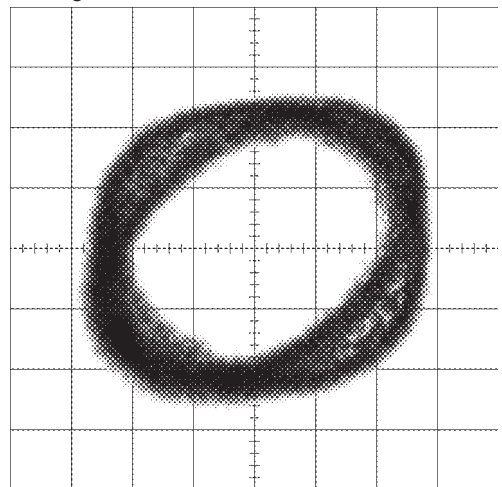
60 degrees



75 degrees



90 degrees



A

B

C

D

E

F

8.3 PCL OUTPUT CONFIRMATION

A



● **PCL output**

With the TESTIN (61 pin) status of IC601 to be “H”, it is shifted to PCL Output Test mode after reset started.
The clock signal is output from the PCL terminal IC601(Pin 37).
The frequency of the clock signal is 625.0 kHz that is one 32th of the fundamental frequency (20 MHz).
The clock signal should be 625.0 kHz(- 10 Hz, + 15 Hz).
If the clock signal is out of the range, the X'tal (X601) should be replaced with new one.

B

■

C

■

D

■

E

■

F

■

5

■

6

■

7

■

8

■

A

■

B

■

C

■

D

■

E

■

F

■

5

■

6

■

7

■

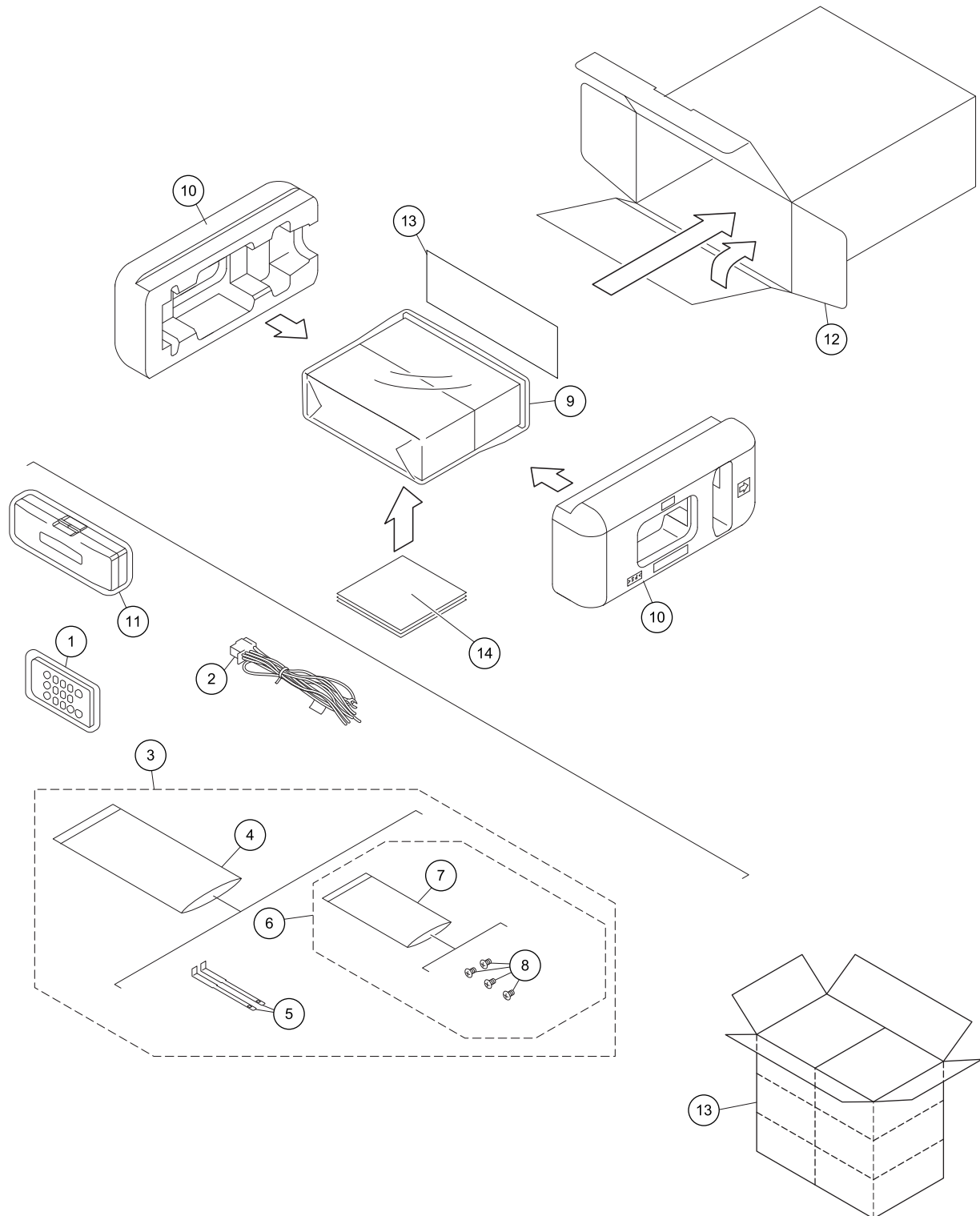
8

■

9. EXPLODED VIEWS AND PARTS LIST

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



Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Remote Control Unit	CXE3669	10	Protector	QHP3016
2	Cord Assy	QDP3013	11	Case Assy	QXA3129
* 3	Accessory Assy	QEA3009	12	Unit Box	See Contrast table (2)
4	Polyethylene Bag	CEG1160	13	Contain Box	See Contrast table (2)
5	Handle	QNC3021	14-1	Owner's Manual	See Contrast table (2)
6	Screw Assy	YEA5082	* 14-2	Warranty Card	See Contrast table (2)
* 7	Polyethylene Bag	CEG-127	15	Cover	YEG5008
8	Screw	TRZ50P080FTC			
9	Polyethylene Bag	QEG3001			

(2) CONTRAST TABLE

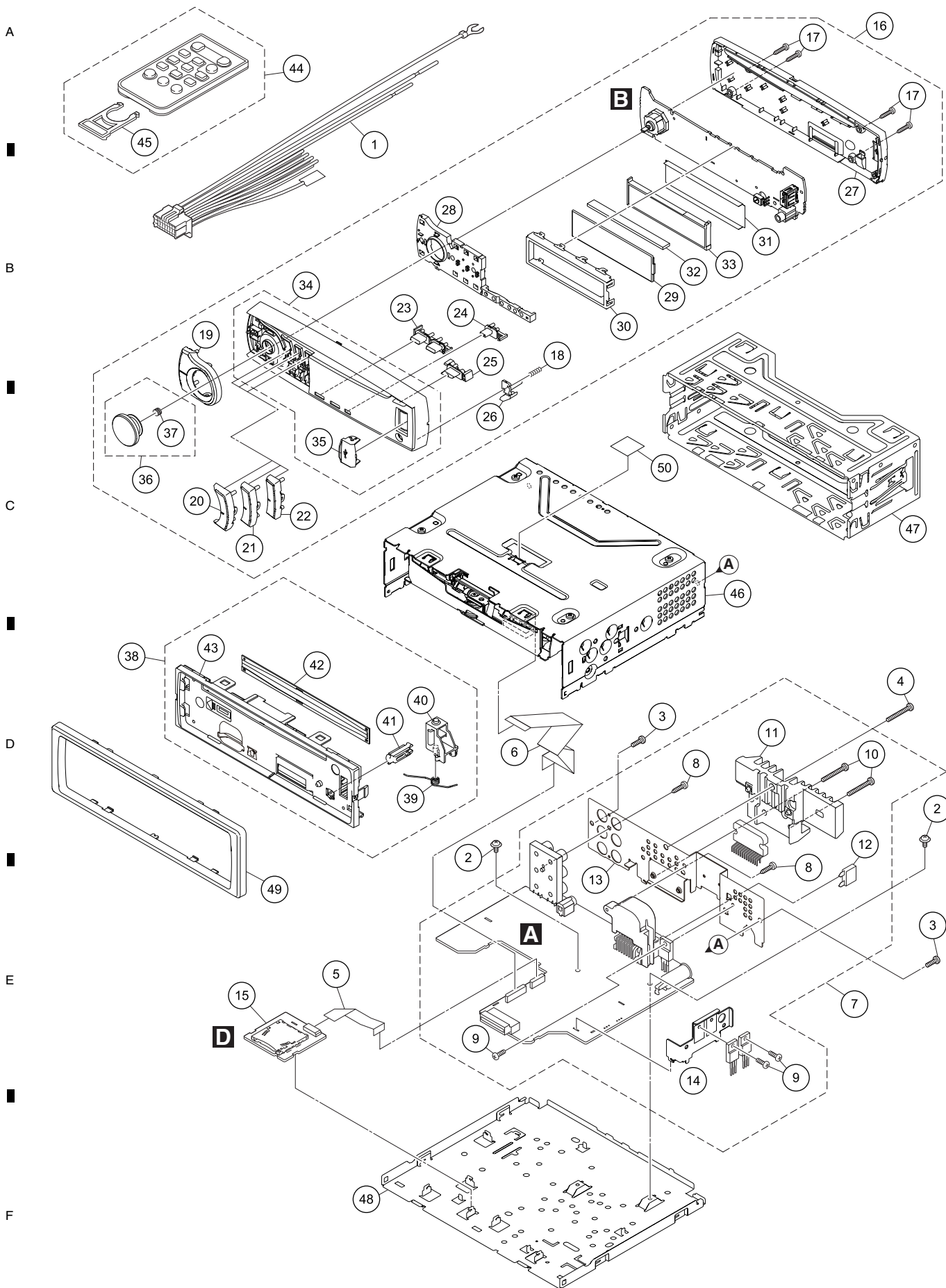
DEH-6350SD/XSES and DEH-6350SD/XSCN5 are constructed the same except for the following:

Mark	No.	Description	DEH-6350SD/XSES	DEH-6350SD/XSCN5
*	11	Case Assy	QXA3129	Not used
	12	Unit Box	YHG5609	YHG5610
	13	Contain Box	YHL5609	YHL5610
	14-1	Owner's Manual	YRD5332	YRB5182
	14-2	Warranty Card	Not used	YRY5002

Owner's Manual,Installation Manual

Part No.	Language
YRD5332	English, Spanish(Espanol), Portuguese(B), Arabic, Traditional Chinese, Persian
YRB5182	Simplified Chinese

9.2 EXTERIOR



(1) EXTERIOR SECTION PARTS LIST

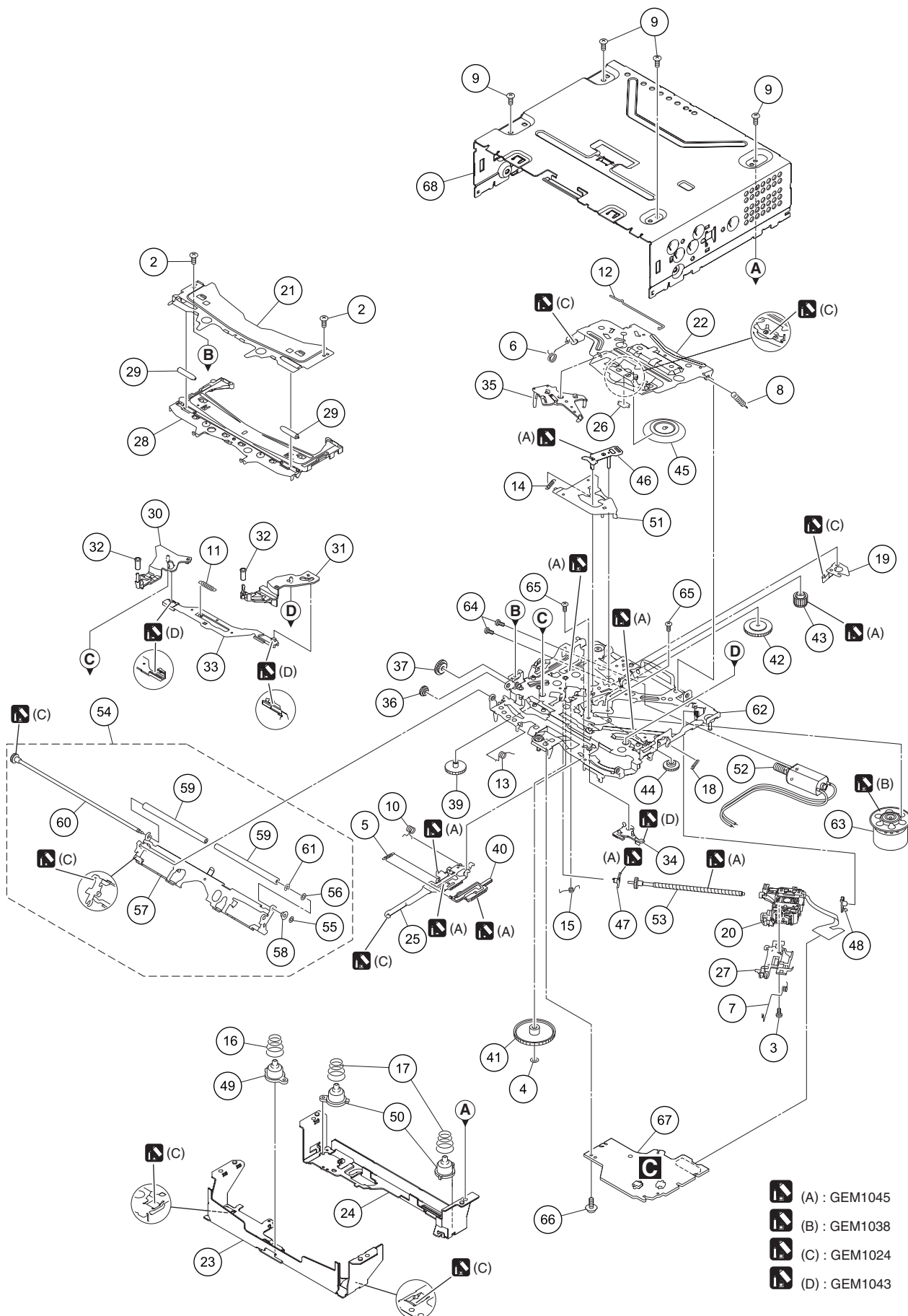
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Cord Assy	QDP3013	26	Button(DETACH)	YAC5430
2	Screw	ASZ26P050FTC	27	Cover	YNS5623
3	Screw	BSZ26P060FTC	28	Lighting Conductor	YNV5212
4	Screw	BSZ26P120FTC	29	LCD	YAW5109
5	Cable	CDE9107	30	Holder	YNC5093
6	Cable	CDE9337	31	Sheet	YNM5165
7	Tuner Amp Unit	See Contrast table (2)	32	Connector	YNV5209
8	Screw	BPZ26P080FTC	33	Lighting Conductor	YNV5211
9	Screw	BSZ26P060FTC	34	Grille Unit	See Contrast table (2)
10	Screw	BSZ26P120FTC	35	Door(USB)	YAT5020
11	Heat Sink	QNR3002	36	Knob Unit	YXC5148
⚠ 12	Fuse(10 A)	YEK5001	37	Coil Spring	YBH5015
13	Holder	YND5061	38	Panel Unit	YXA5766
14	Holder	YND5063	39	Spring	QBH3001
15	SD Unit	YWM5516	40	Arm	QNV3025
16	Grille Assy	See Contrast table (2)	41	Button	QNV3026
17	Screw	BPZ20P100FTC	42	Cover	YNN5030
18	Spring	CBH2210	43	Panel	YNS5628
19	Button(LIST, RPT)	YAC5423	44	Remote Control Unit	CXE3669
20	Button(1, 4)	YAC5424	45	Cover	CNS7068
21	Button(2, 5)	YAC5425	46	CD Mechanism Module(S11.1)	CXK5802
22	Button(3, 6)	YAC5426	47	Holder	QNC3020
23	Button(SRC, BAND)	YAC5427	48	Case	YNA5106
24	Button(CLK)	YAC5428	49	Panel	YNS5625
25	Button(EJECT)	YAC5429	50	Label	See Contrast table (2)

(2) CONTRAST TABLE

DEH-6350SD/XSES and DEH-6350SD/XSCN5 are constructed the same except for the following:

Mark	No.	Description	DEH-6350SD/XSES	DEH-6350SD/XSCN5
	7	Tuner Amp Unit	YWM5508	YWM5512
	16	Grille Assy	YXE5025	YXE5026
	34	Grille Unit	YXA5760	YXA5761
	50	Label	Not used	CNN3533

9.3 CD MECHANISM MODULE



DEH-6350SD/XSES

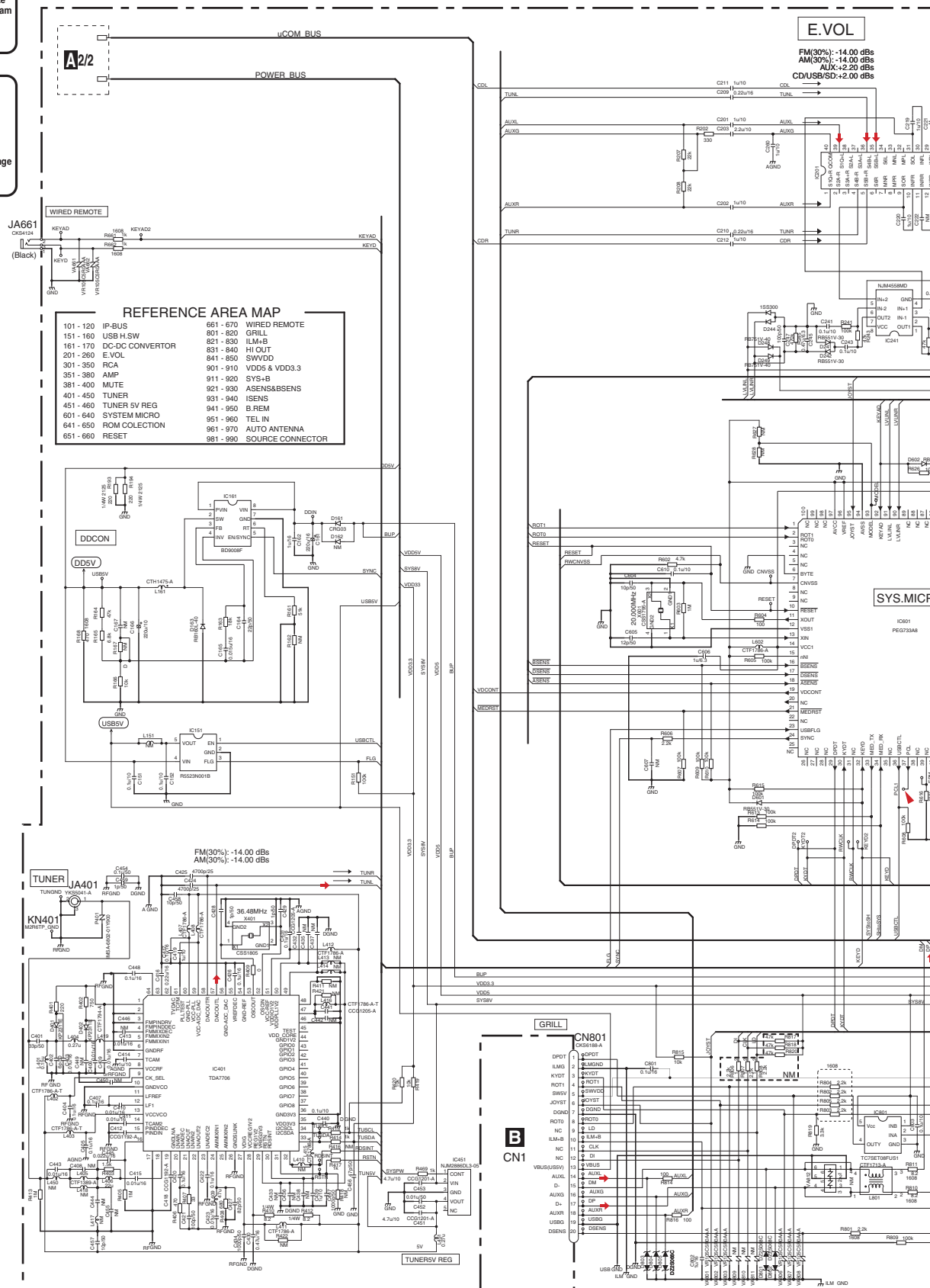
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1			50	Damper	CNW1198	
2	Screw	BSZ20P040FTC	51	Arm	CNW1726	A
3	Screw(M2 x 4)	CBA1835	52	Motor Unit(M2)(LOAD/CRG)	CXC4026	
4	Washer	CBF1038	53	Screw Unit	CXC8894	
5	Spring	CBH3010	54	Arm Assy	CXE3849	
6	Spring	CBH2855	55	Washer	CBF1037	
7	Spring	CBH2856				
8	Spring	CBH2860	56	Washer	CBF1038	
9	Screw	BSZ26P060FTC	57	Arm	CND5886	
10	Spring	CBH3011	58	Collar	CNV6906	
11	Spring	CBH3012	59	Roller	CNW1196	
12	Spring	CBH3014	60	Gear Unit	CXC8893	B
13	Spring	CBH3015	61	Washer	YE15FTC	
14	Spring	CBH3016	62	Chassis Unit	CXE3818	
15	Spring	CBH3017	63	Motor Unit(M1)(SPDL)	CXE2273	
16	Spring	CBH3086	64	Screw	JFZ20P025FTC	
17	Spring	CBH3019	65	Screw	JGZ17P022FTC	
18			66	Screw	EBA1028	
19	Spring	CBL1822	67	CD Core Unit (S11.1STD-DOUT)	CWX3985	
20	Pickup Unit(P10.5)(Service)	CXX1942	68	Chassis	CNA3181	C
21	Bracket	CND4553				
22	Arm	CND4555				
23	Bracket	CND5709				
24	Bracket	CND5710				
25	Lever	CND5398				
26	Sheet	CNN2280				
27	Rack	CNV8342				
28	Guide	CNW1171				
29	Roller	CNW1172				D
30	Arm	CNW2157				
31	Arm	CNW1174				
32	Roller	CNW1175				
33	Lever	CNW1176				
34	Arm	CNW1177				
35	Arm	CNW1178				
36	Gear	CNW1180				
37	Gear	CNW1181				
38						E
39	Gear	CNW1183				
40	Rack	CNW1184				
41	Gear	CNW1185				
42	Gear	CNW1186				
43	Gear	CNW1187				
44	Gear	CNW1188				
45	Clamper	CNW1190				
46	Arm	CNW1192				
47	Holder	CNW1193				F
48	Holder	CNW1194				
49	Damper	CNW1197				

10. SCHEMATIC DIAGRAM

10.1 TUNER AMP UNIT (1/2) (GUIDE PAGE)

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

A-a 1/2



A1/2

DEH-6350SD/XSES

A-b 1/2

VOL

FM(30%): -14.00 dBs
 AM(30%): -14.00 dBs
 AUX: +2.00 dBs
 SD: +2.00 dBs

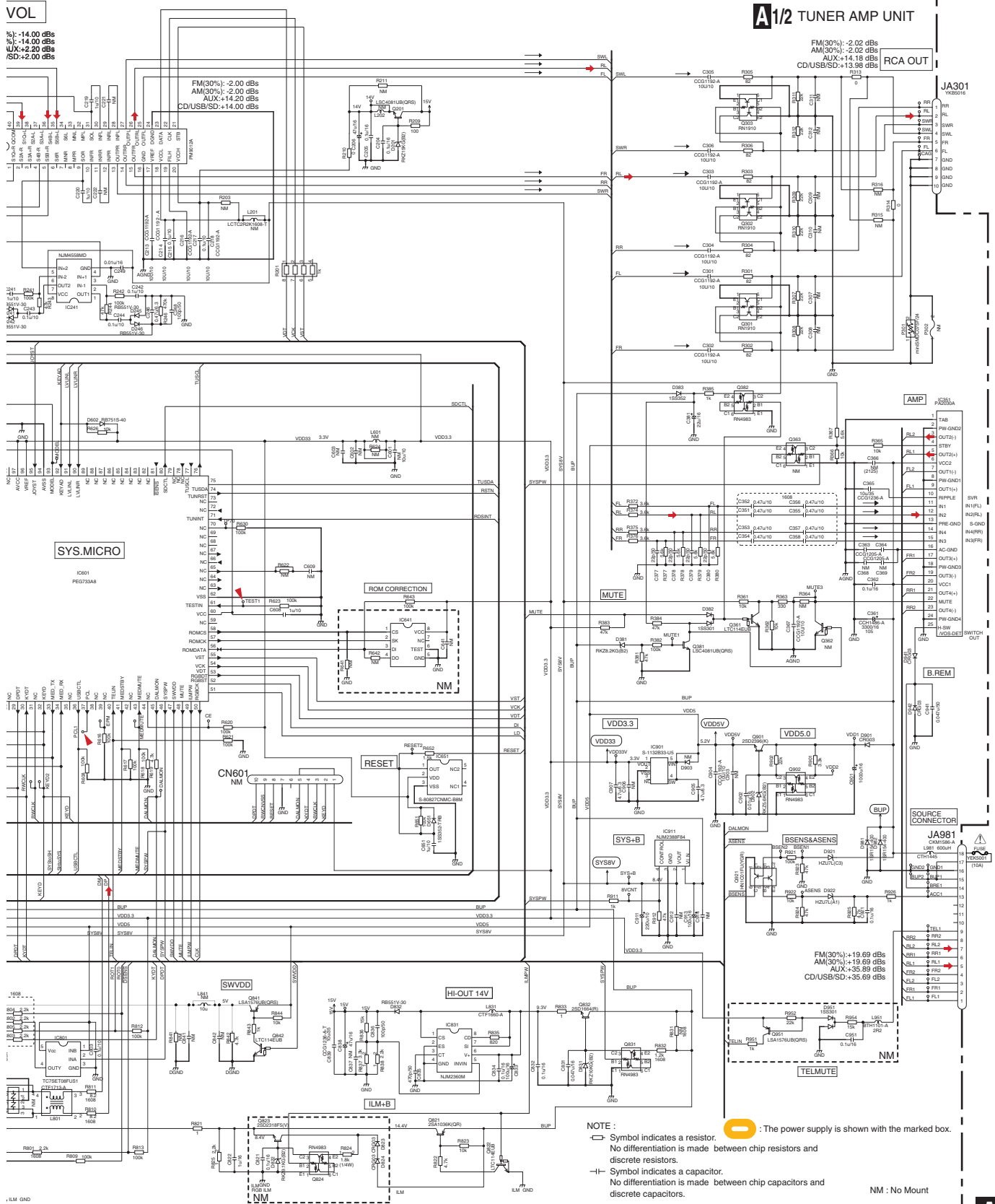
A1/2 TUNER AMP UNIT

FM(30%): -2.02 dBs
 AM(30%): -2.02 dBs
 AUX: +14.18 dBs
 CD/USB/SD: +13.98 dBs

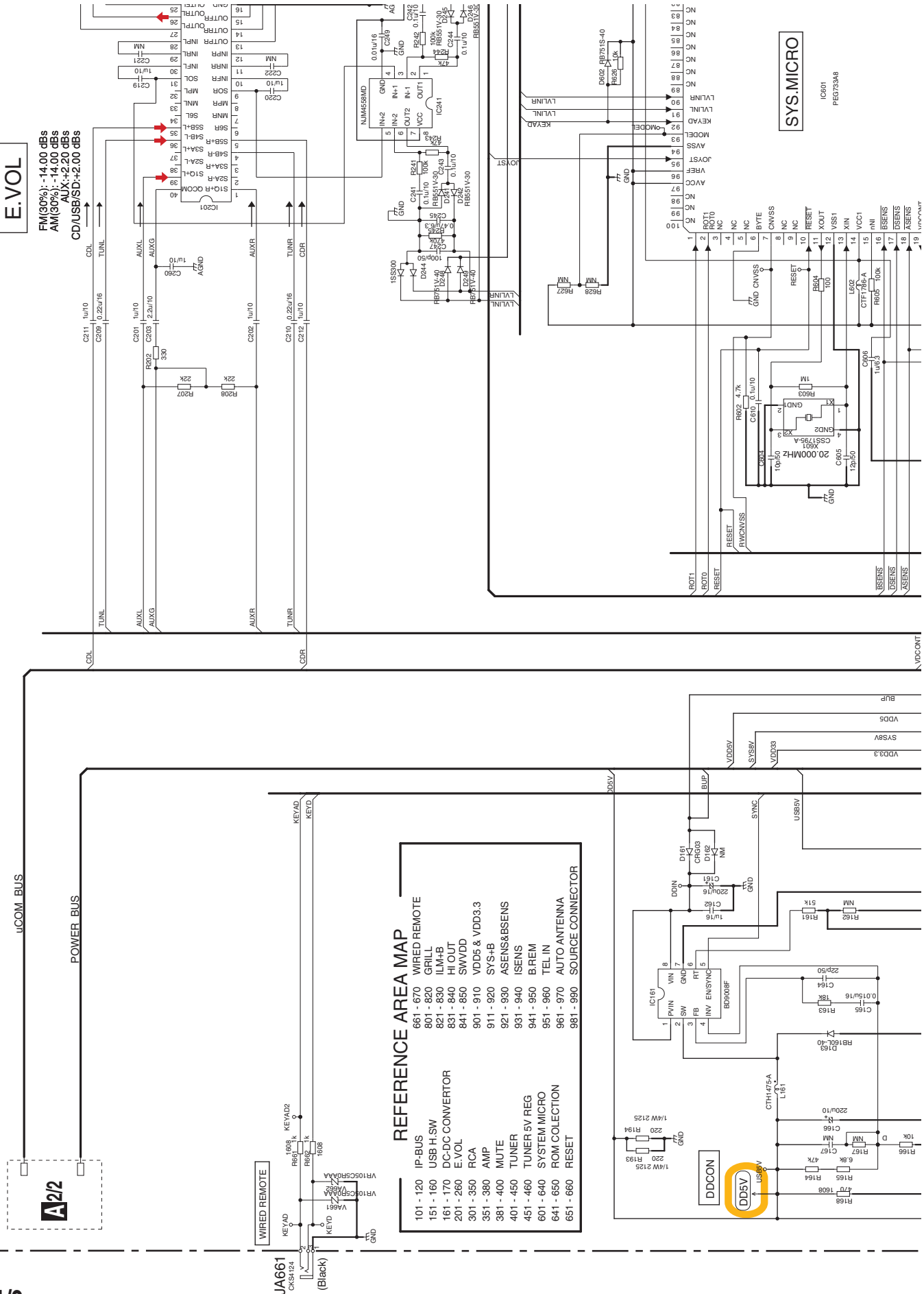
RCA OUT

JA301

YK6016



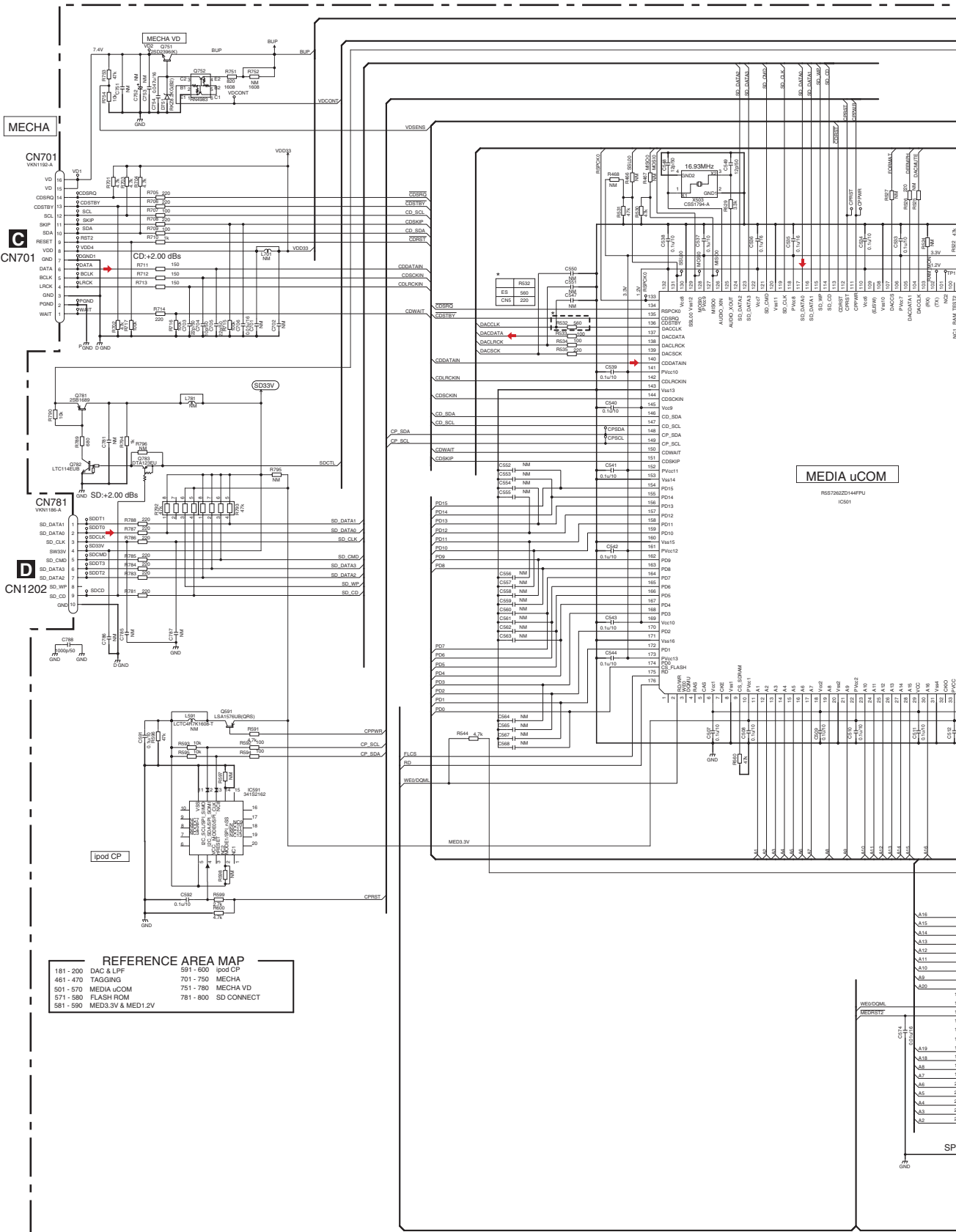






10.2 TUNER AMP UNIT (2/2) (GUIDE PAGE)

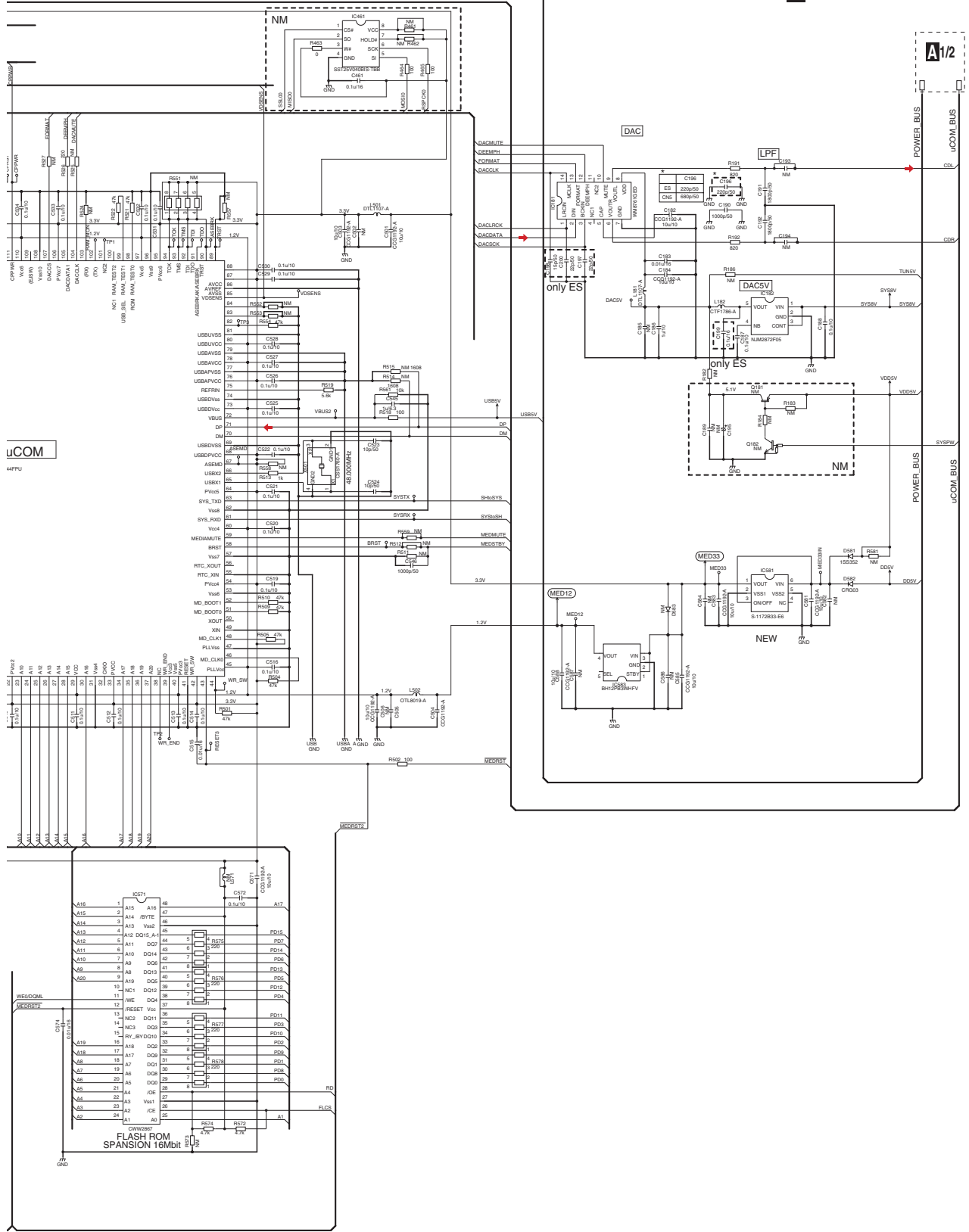
A-a 2/2

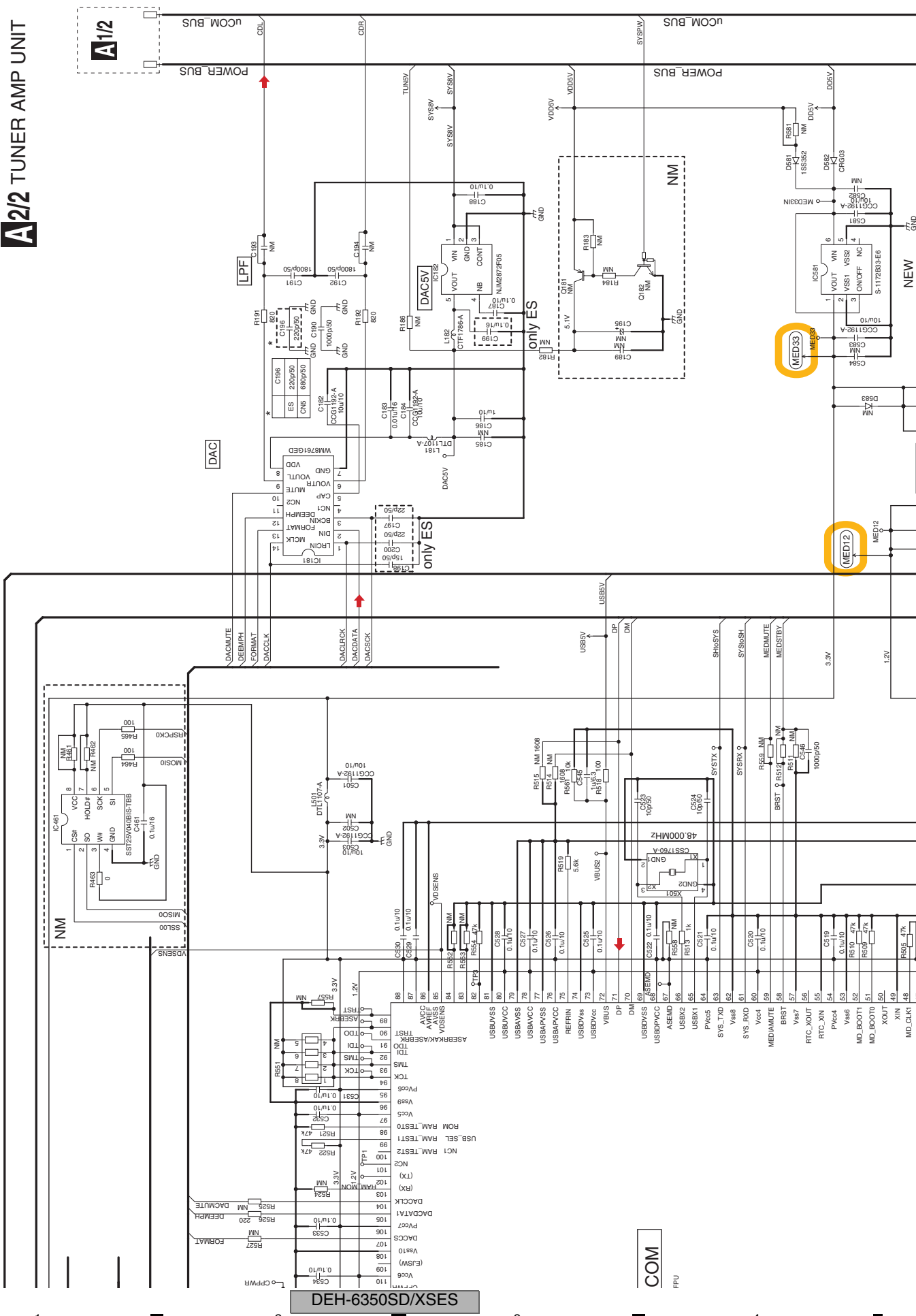


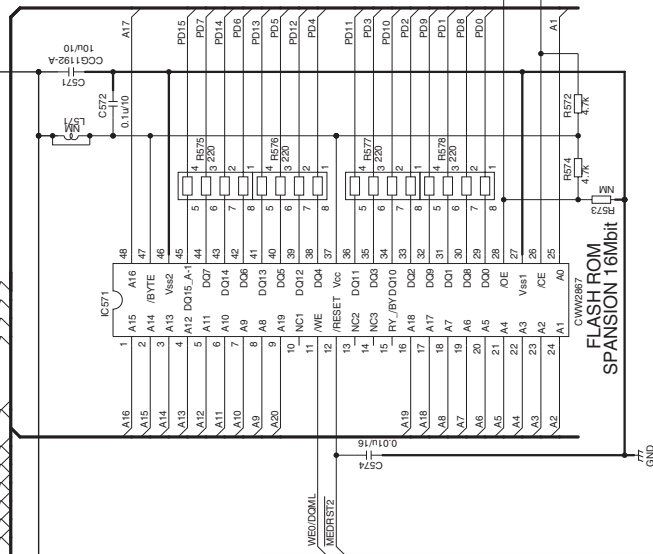
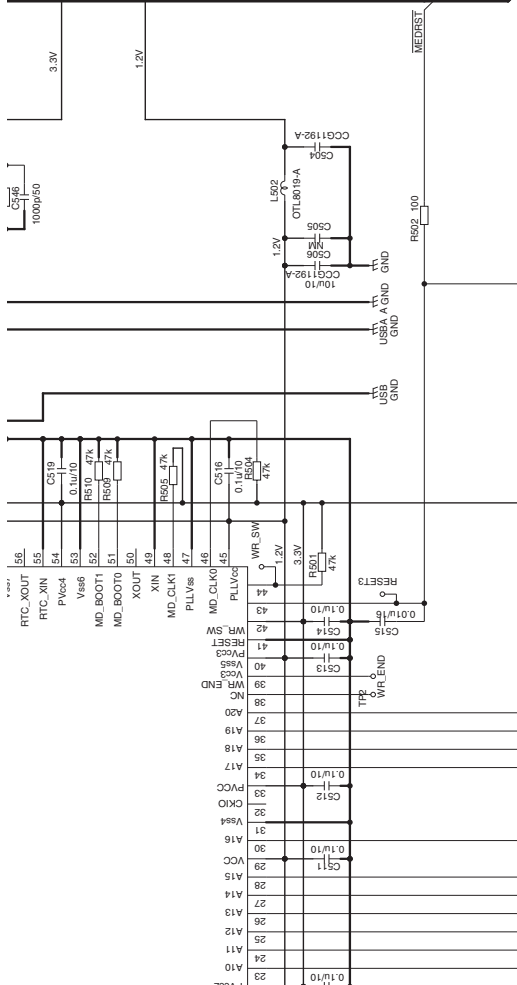
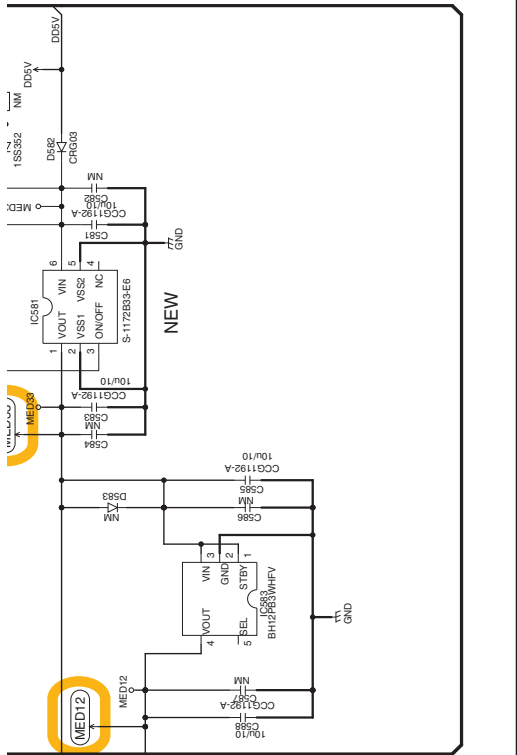
A2/2

A-b 2/2

A2/2 TUNER AMP UNIT







DEH-6350SD/XSES

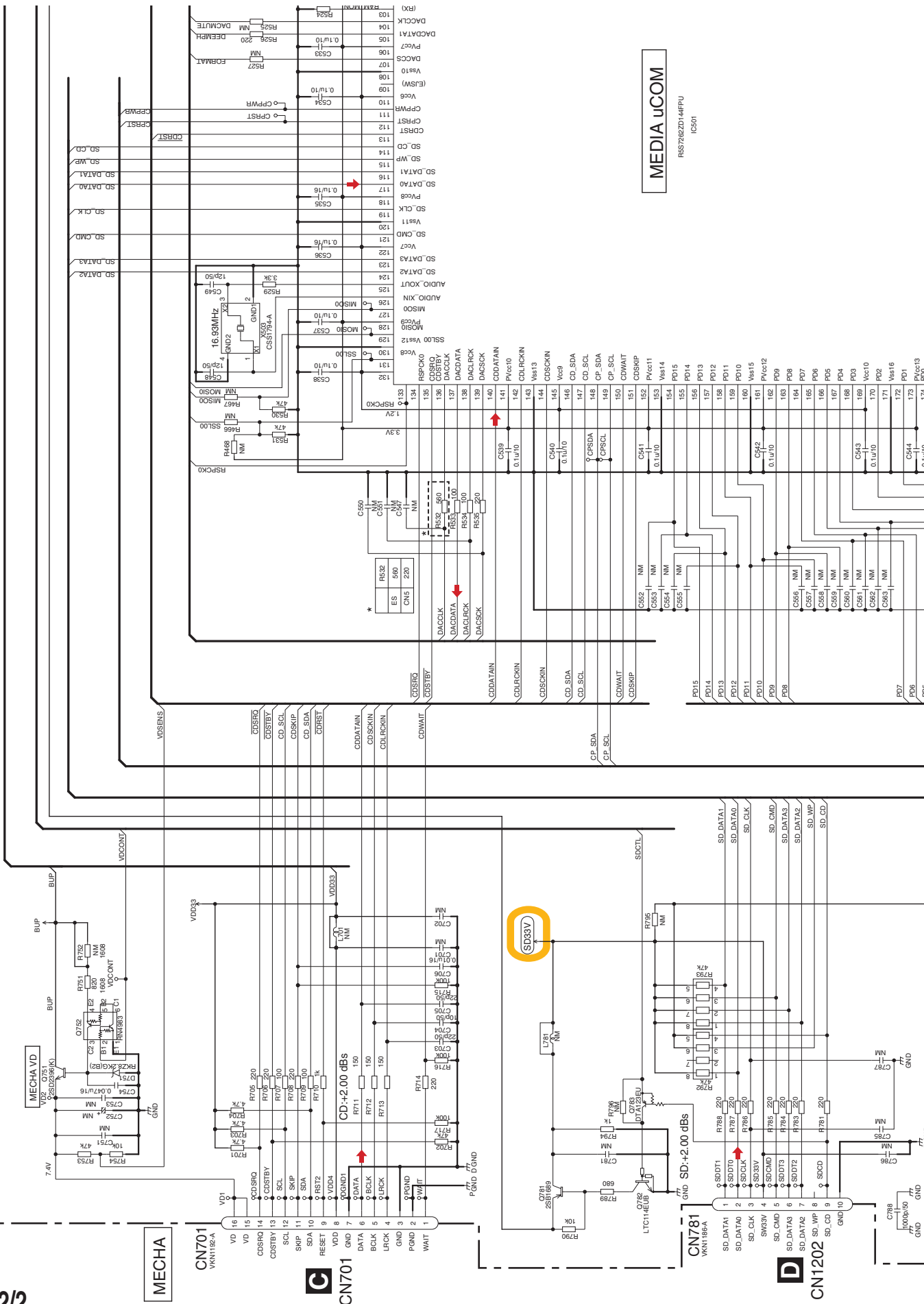
A-b 2/2

A-a A-b

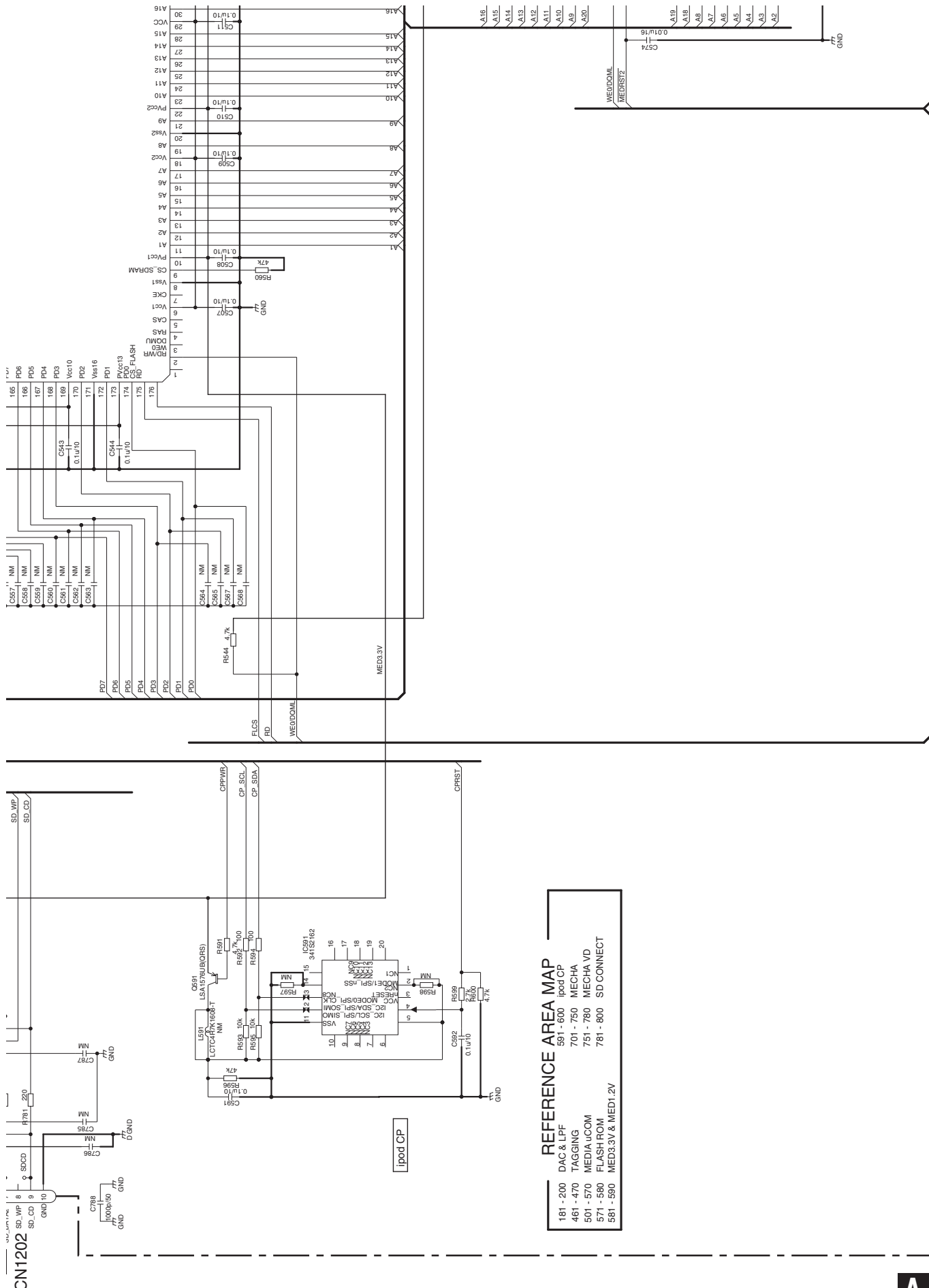
A-a A-b

A-a 2/2

A-b 2/2



DEH-6350SD/XSES



A-b 2/2

A-a A-b

A-a 2/2

DEH-6350SD/XSES

A B C D E F

5

6

7

8

5

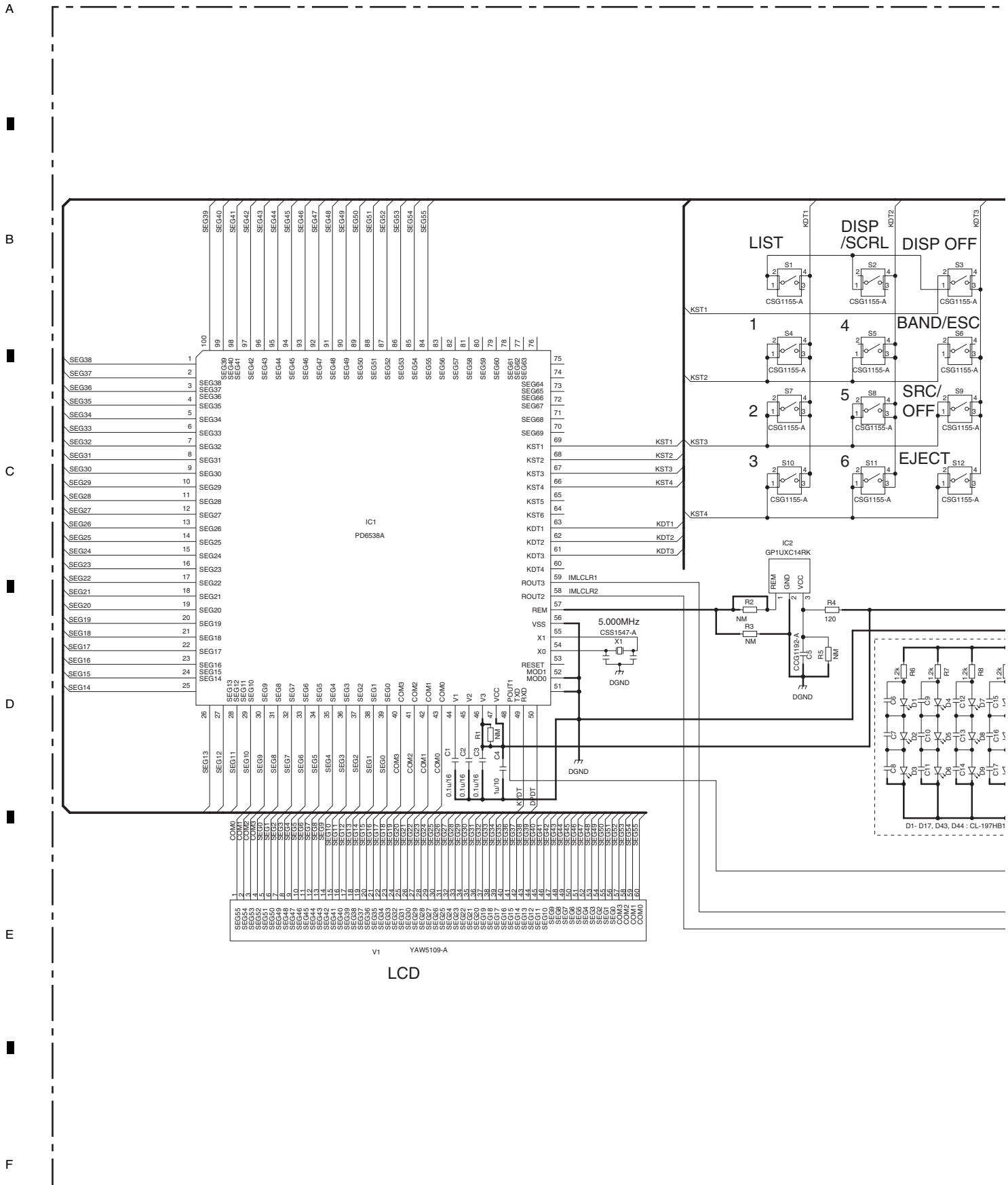
6

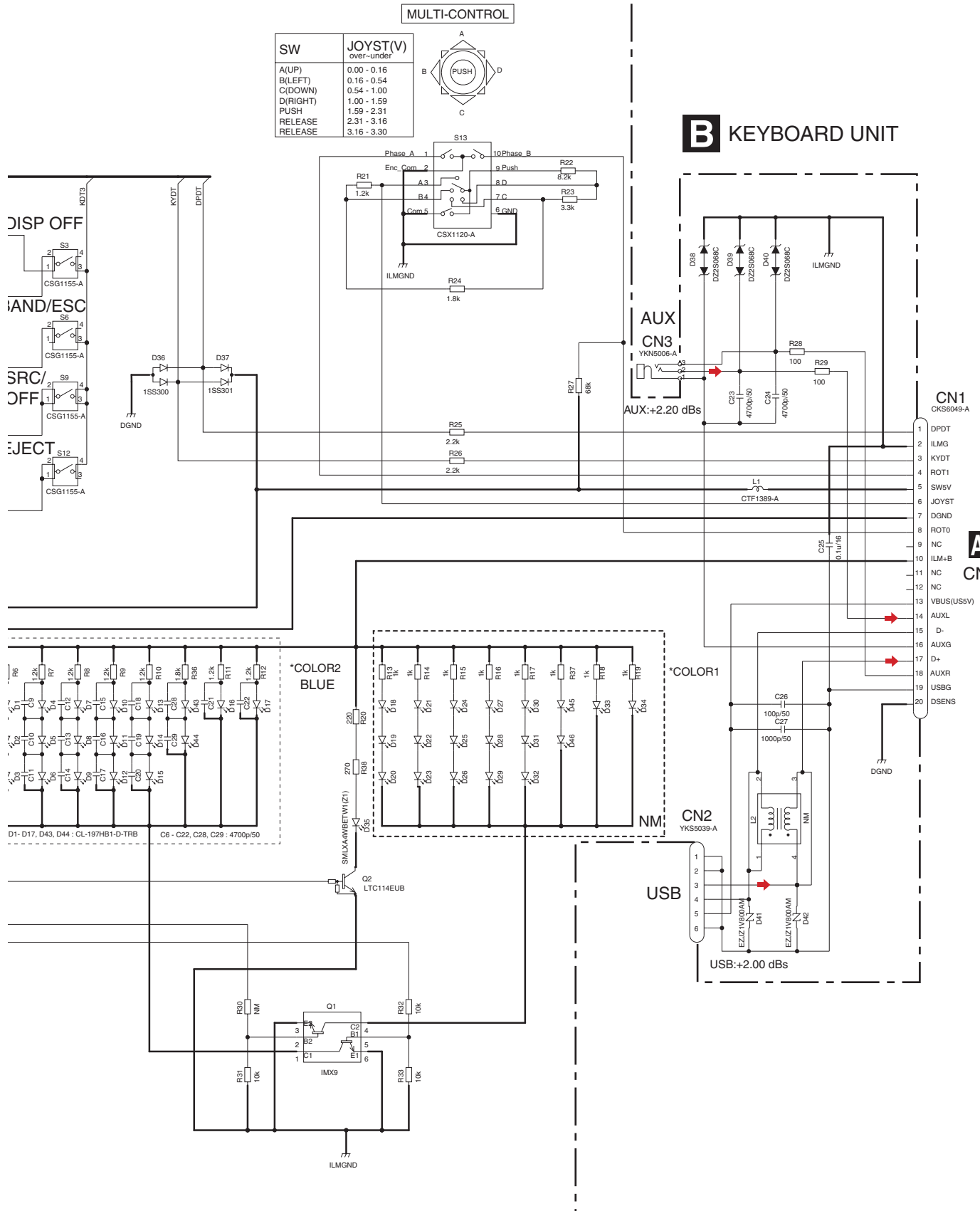
7

8

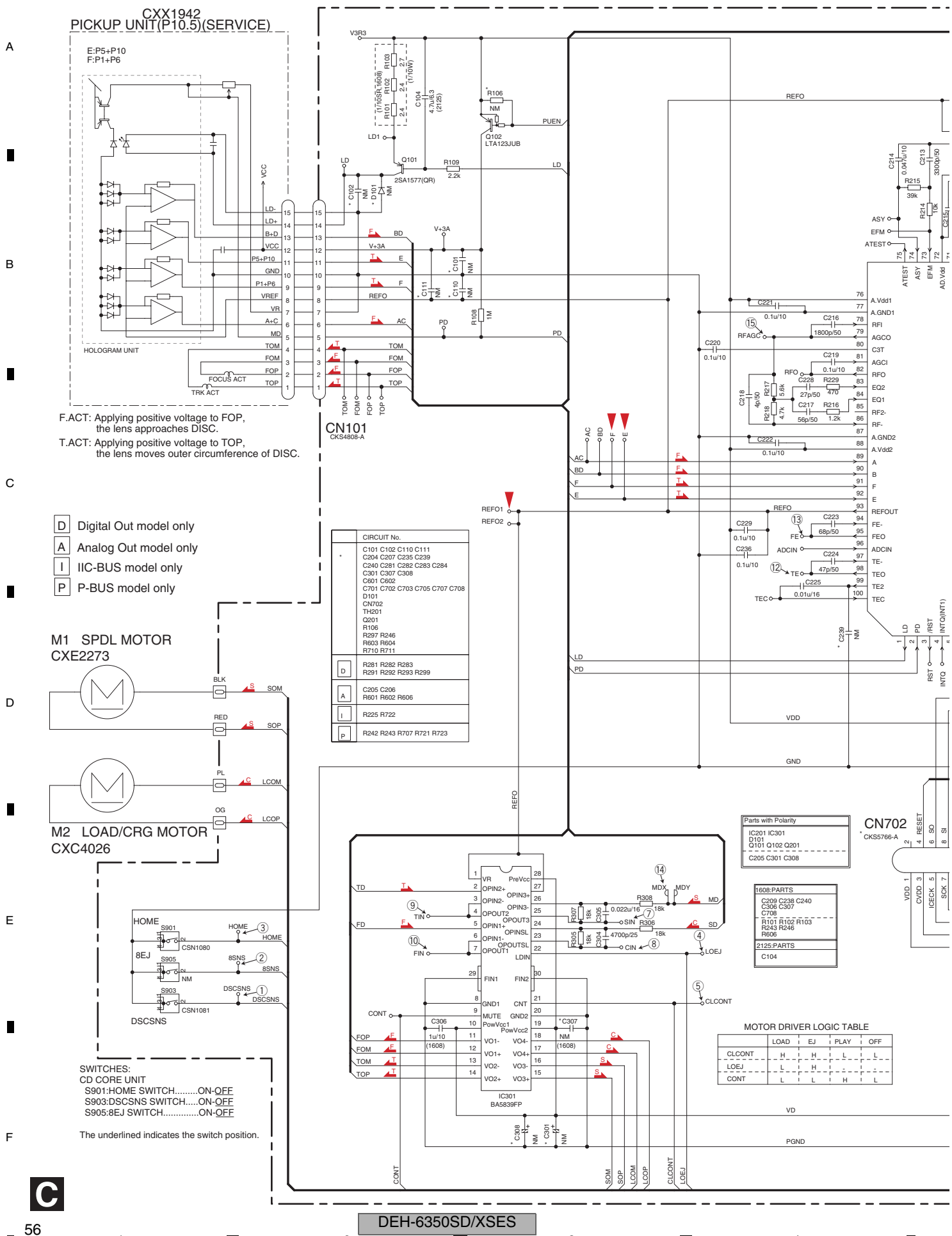
53

10.3 KEYBOARD UNIT





10.4 CD CORE UNIT (S11.1STD-DOUT)



A

C

D

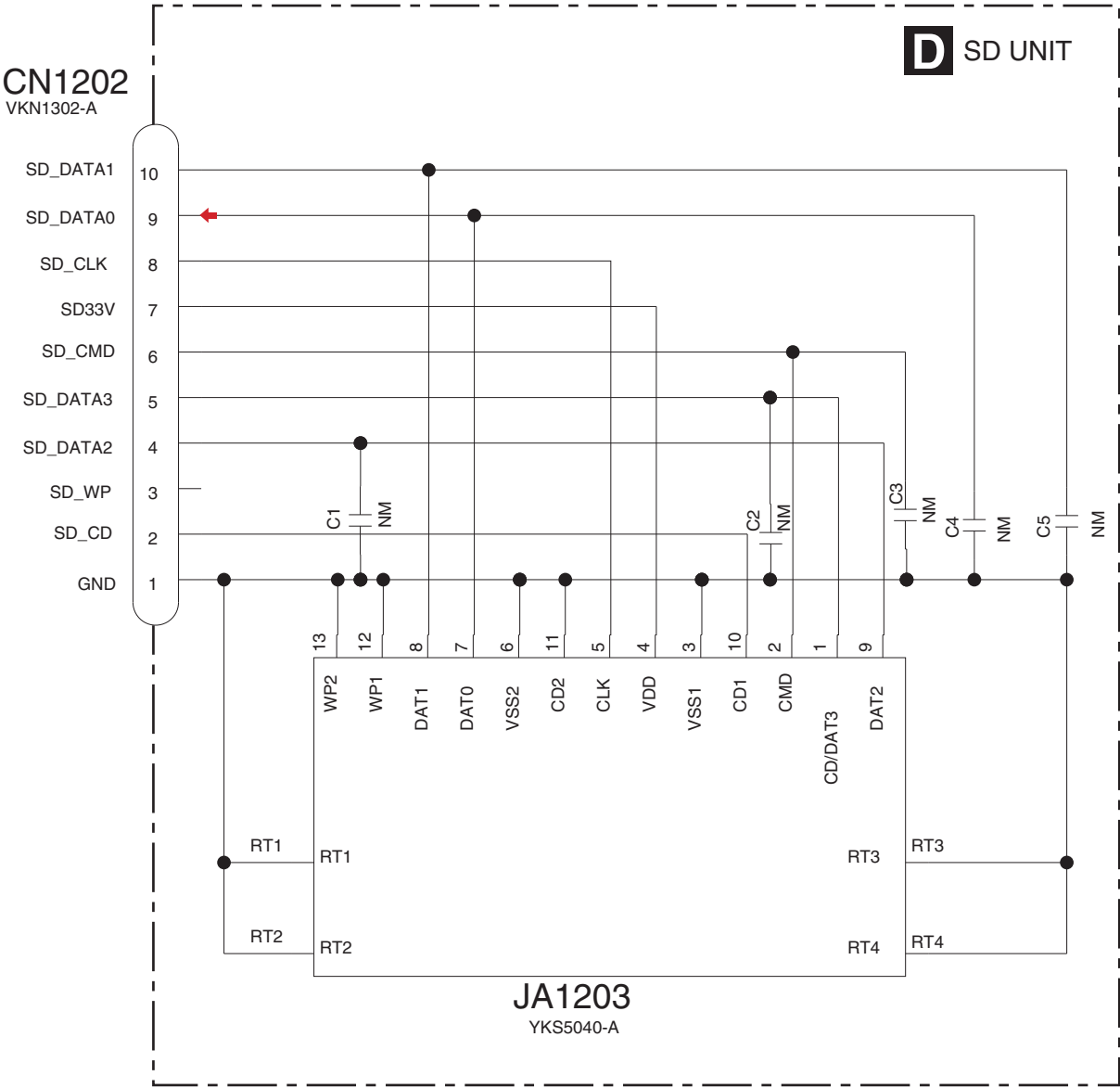
E

F

57

10.5 SD UNIT

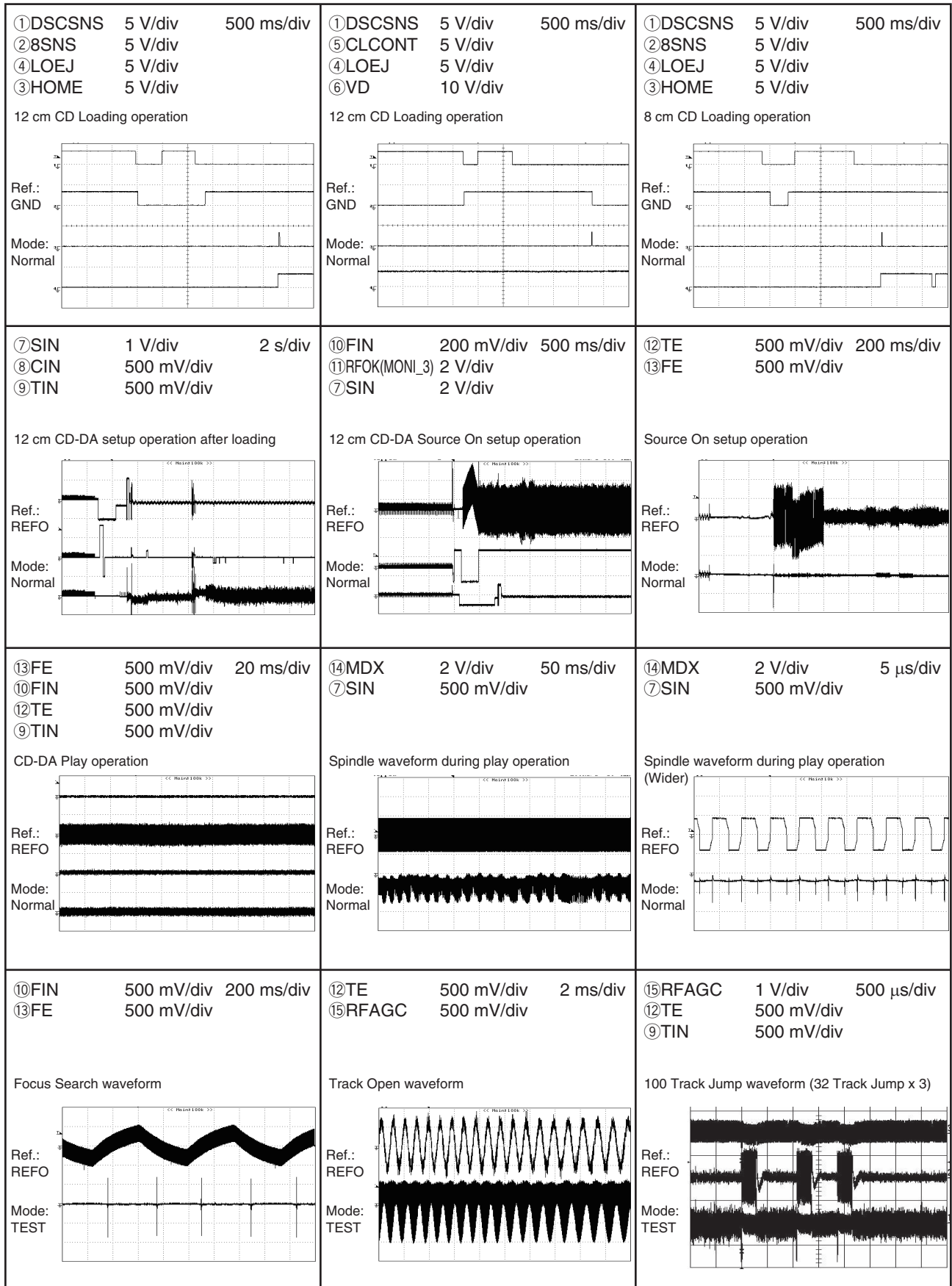
A2/2
CN781



10.6 WAVEFORMS

● CD CORE UNIT

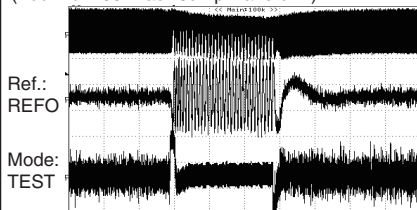
Note : 1. The encircled numbers denote measuring points in the circuit diagram.
2. Reference voltage REFO1(1.65 V)



A

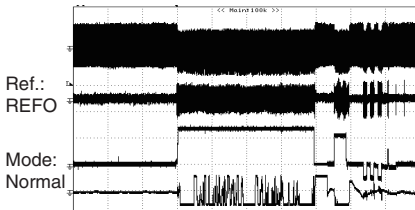
⑮RFAGC 1 V/div 2 ms/div
 ⑫TE 500 mV/div
 ⑨TIN 500 mV/div

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



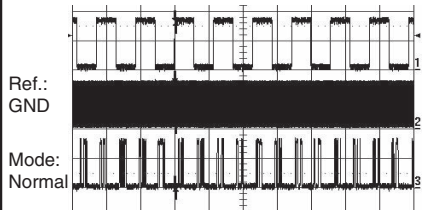
⑮RFAGC 1 V/div 200 ms/div
 ⑫TE 1 V/div
 ⑧CIN 500 mV/div
 ⑦SIN 2 V/div

Search operation(Outter to Inner)



⑮LRCK 2 V/div 10 μs/div
 ⑰BCLK 2 V/div
 ⑱DATA 2 V/div

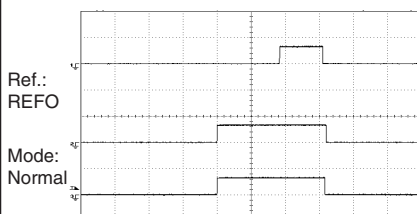
Digital Out waveform



B

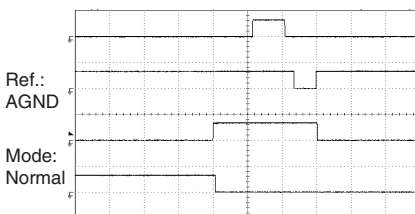
①DSCSNS 5 V/div 500 ms/div
 ⑤CLCONT 5 V/div
 ④LOEJ 5 V/div

12 cm CD Eject operation



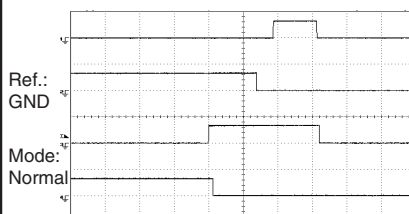
①DSCSNS 5 V/div 500 ms/div
 ②8SNS 5 V/div
 ④LOEJ 5 V/div
 ③HOME 5 V/div

8 cm CD Eject operation



①DSCSNS 5 V/div 500 ms/div
 ②8SNS 5 V/div
 ④LOEJ 5 V/div
 ③HOME 5 V/div

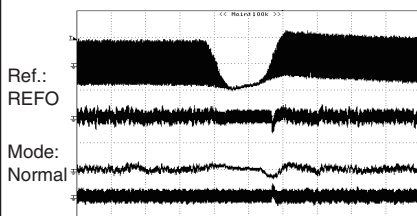
12 cm CD Eject operation



C

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

Black Dot (800 μm) during play



D

E

F

■

5

■

6

■

7

■

8

■

A

■

B

■

C

■

D

■

E

■

F

■

5

■

6

■

7

■

8

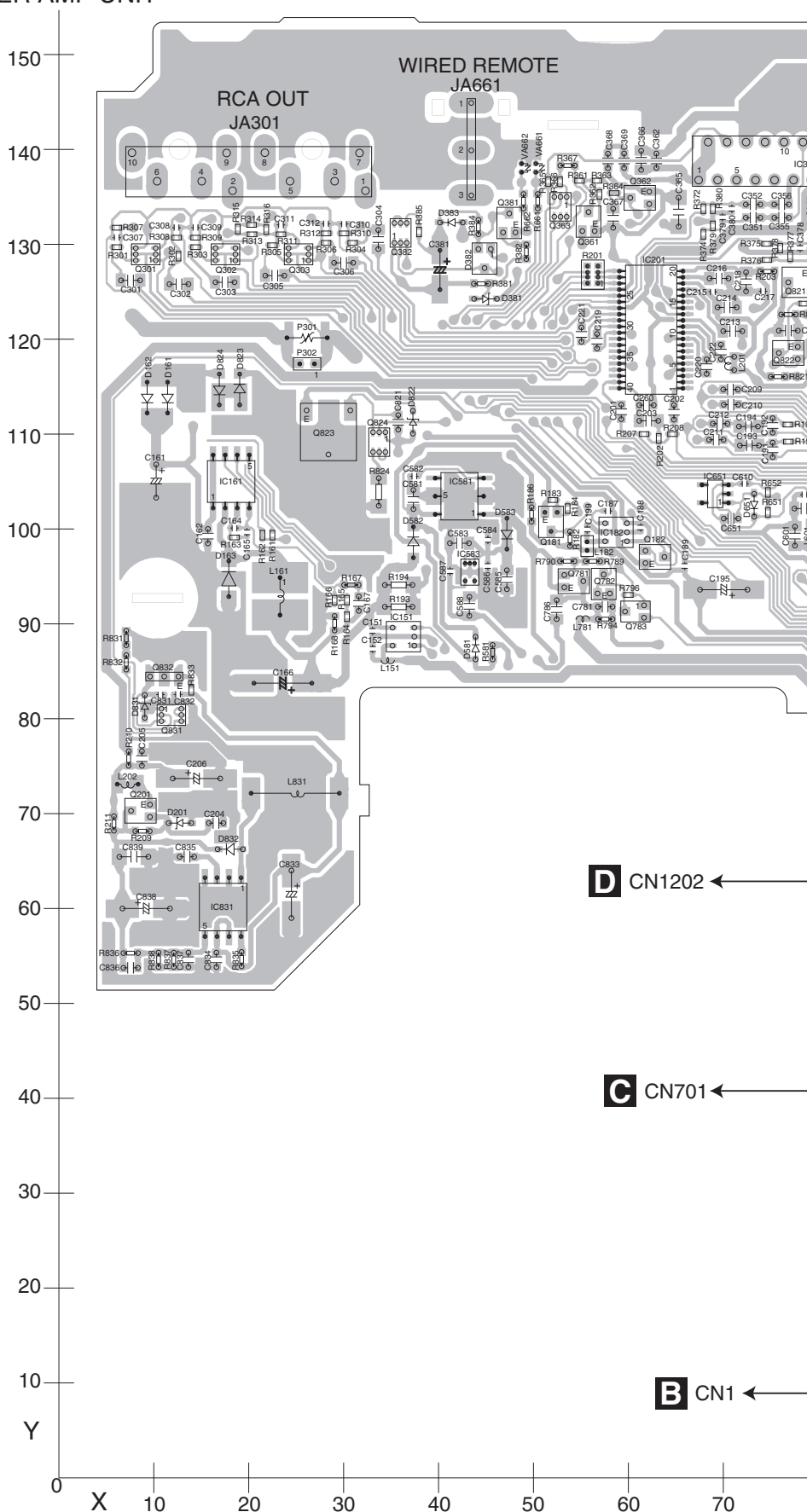
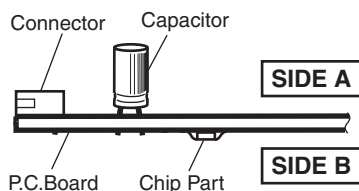
■

11.1 TUNER AMP UNIT

A

1.The parts mounted on this PCB include all necessary parts for several destination.

2. Viewpoint of PCB diagrams



F



DEH-6350SD/XSES

A

A TUNER AMP UNIT

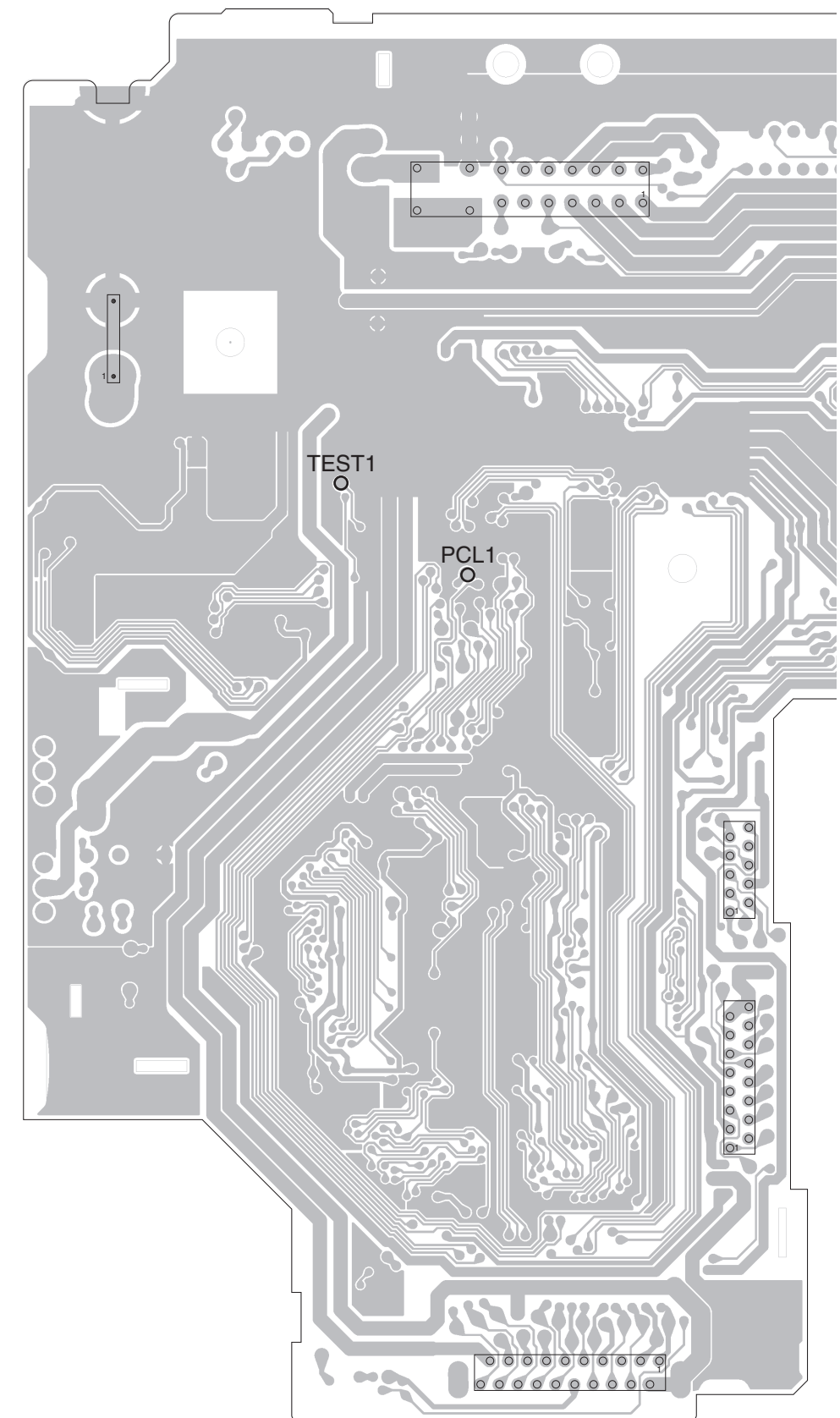
B

C

D

E

F



160

150

140

130

120

110

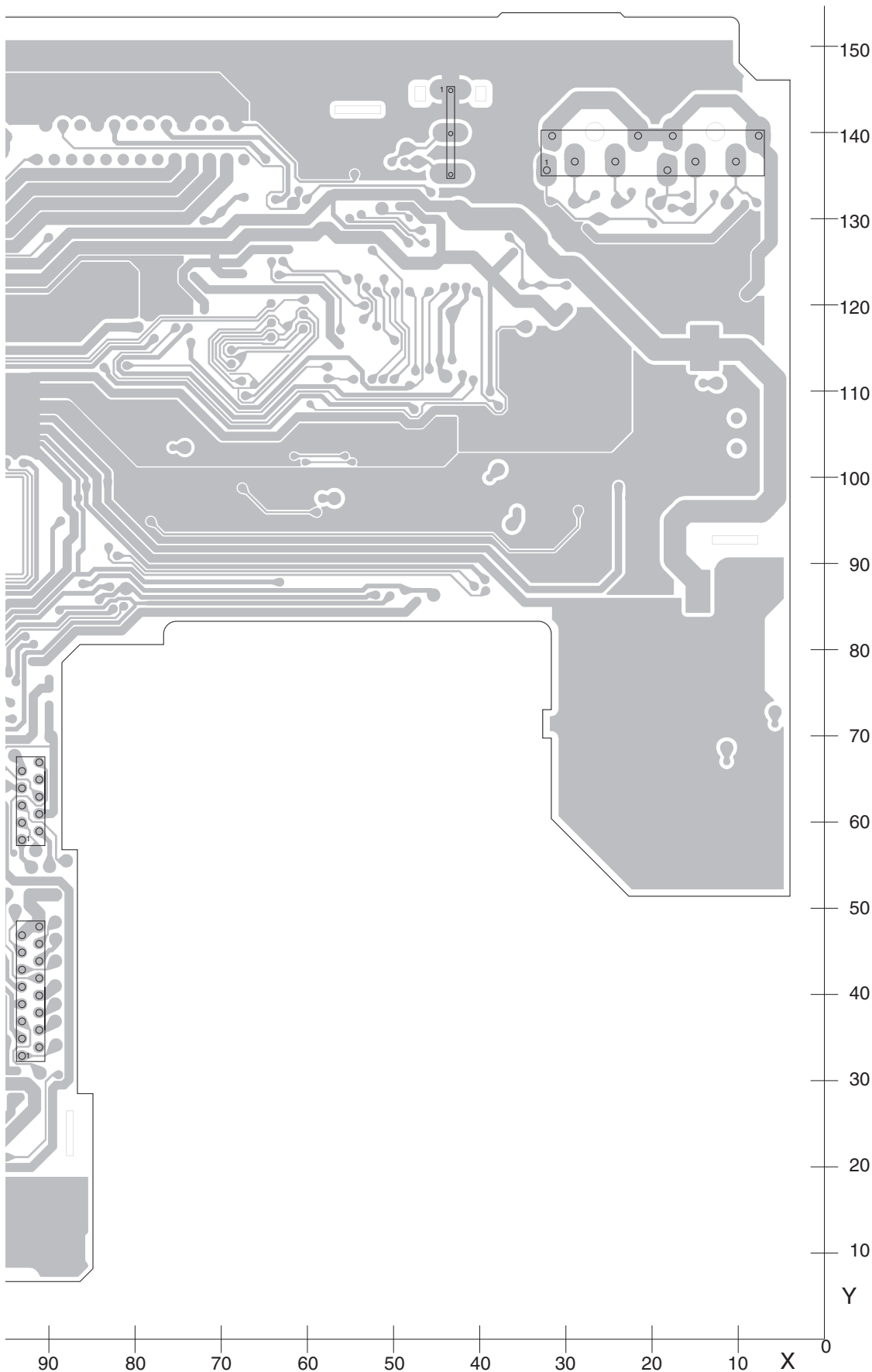
100

90

DEH-6350SD/XSES

SIDE B

A



B

C

D

E

F

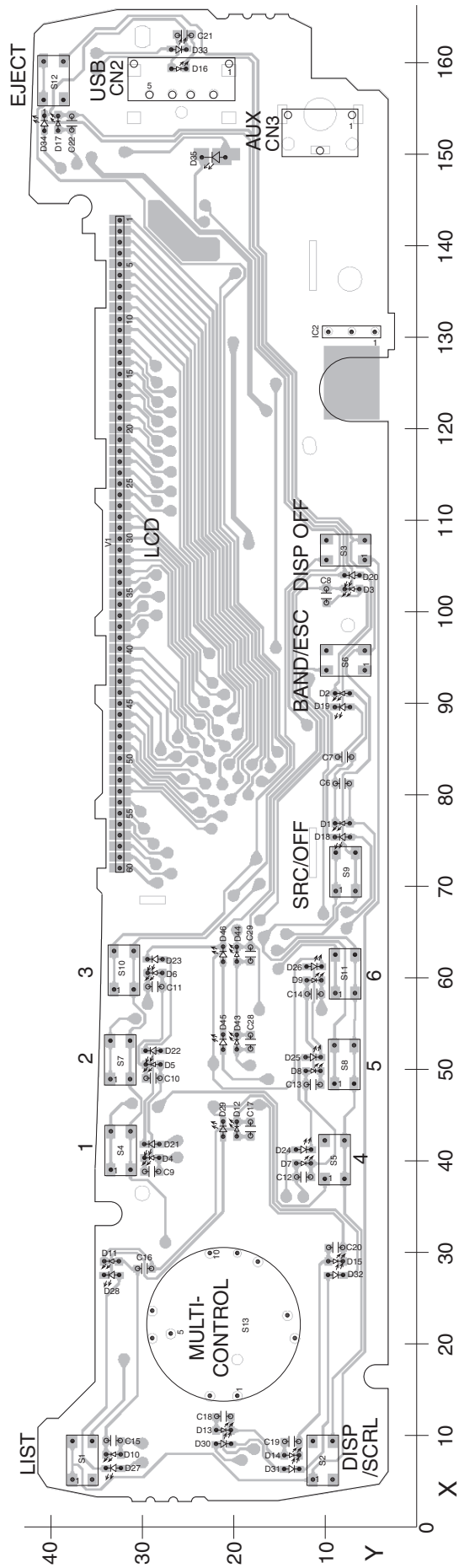
A

DEH-6350SD/XSES

11.2 KEYBOARD UNIT

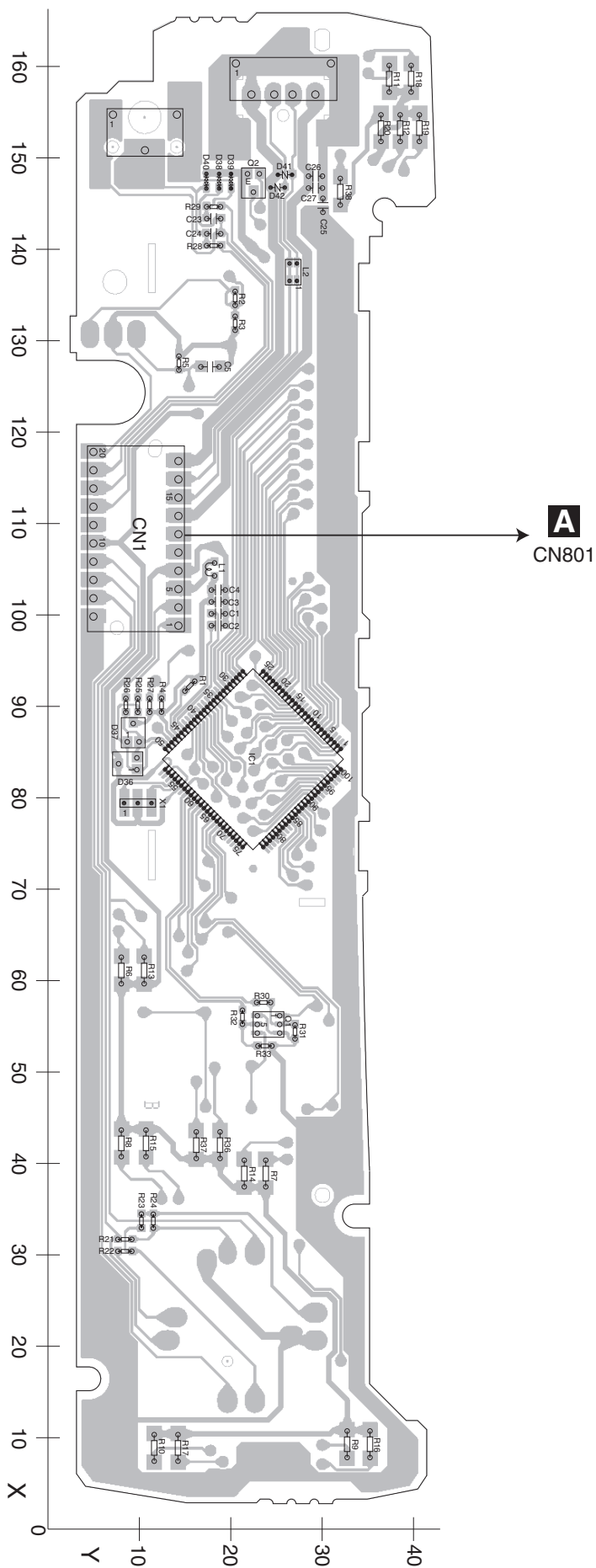
B KEYBOARD UNIT

SIDE A



B KEYBOARD UNIT

SIDE B



A
B
C
D
E
F

B

11.3 CD CORE UNIT (S11.1STD-DOUT)

C CD CORE UNIT (S11.1STD-DOUT)

SIDE A

A

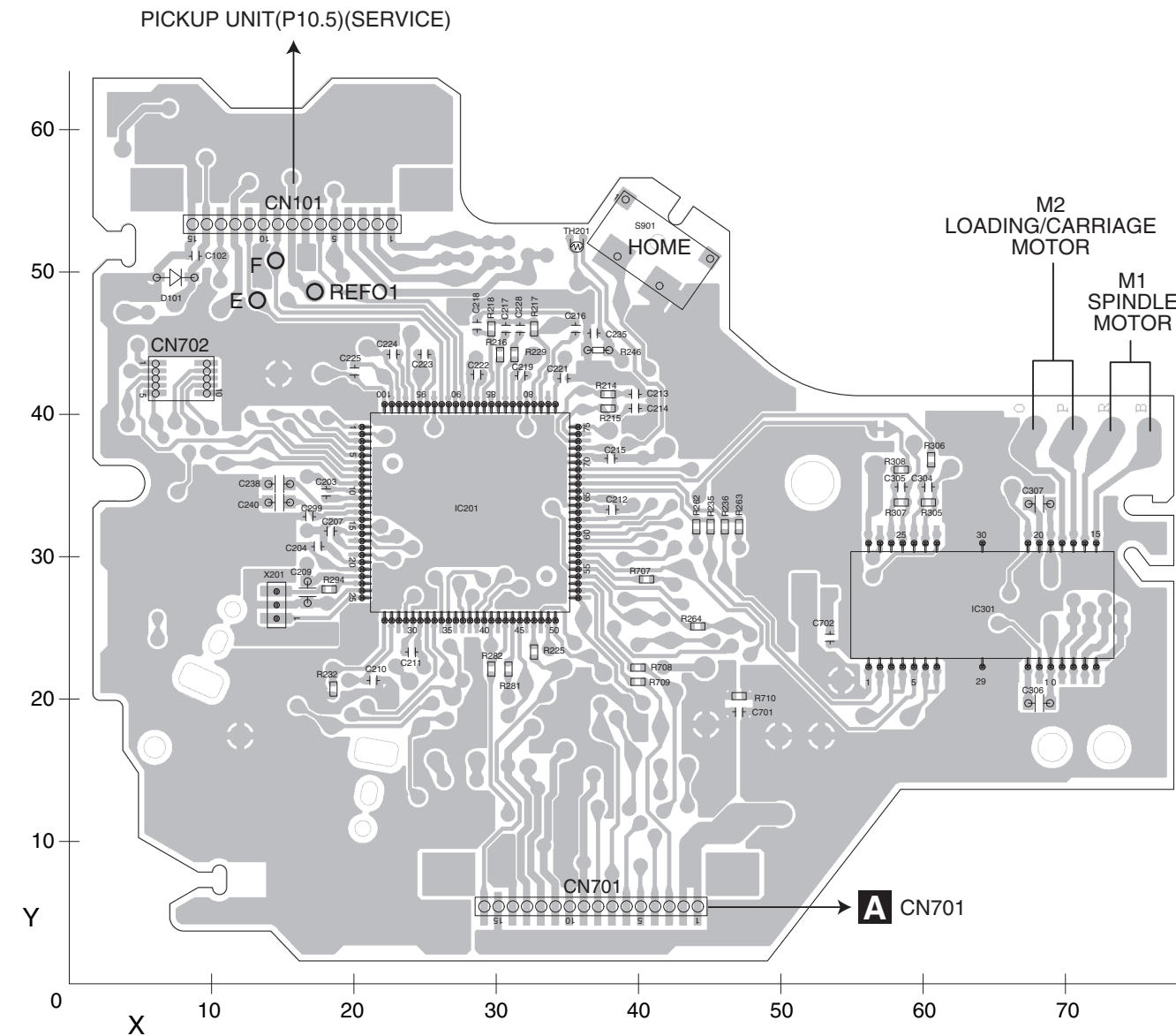
B

C

D

E

F

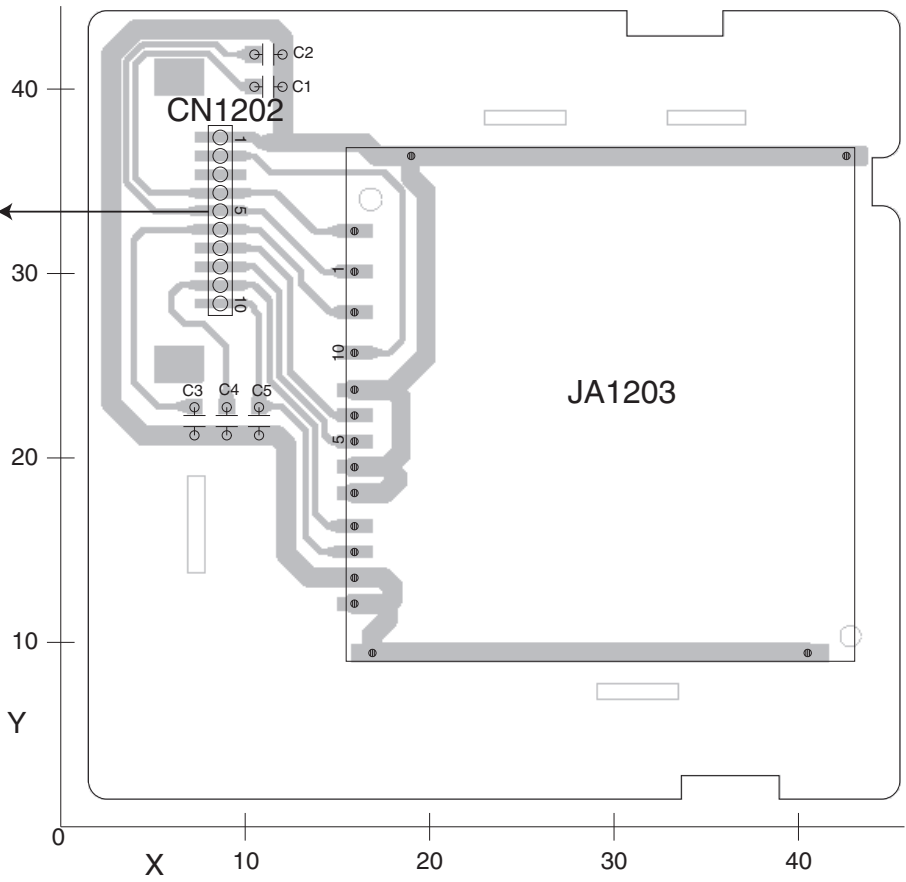


C

11.4 SD UNIT

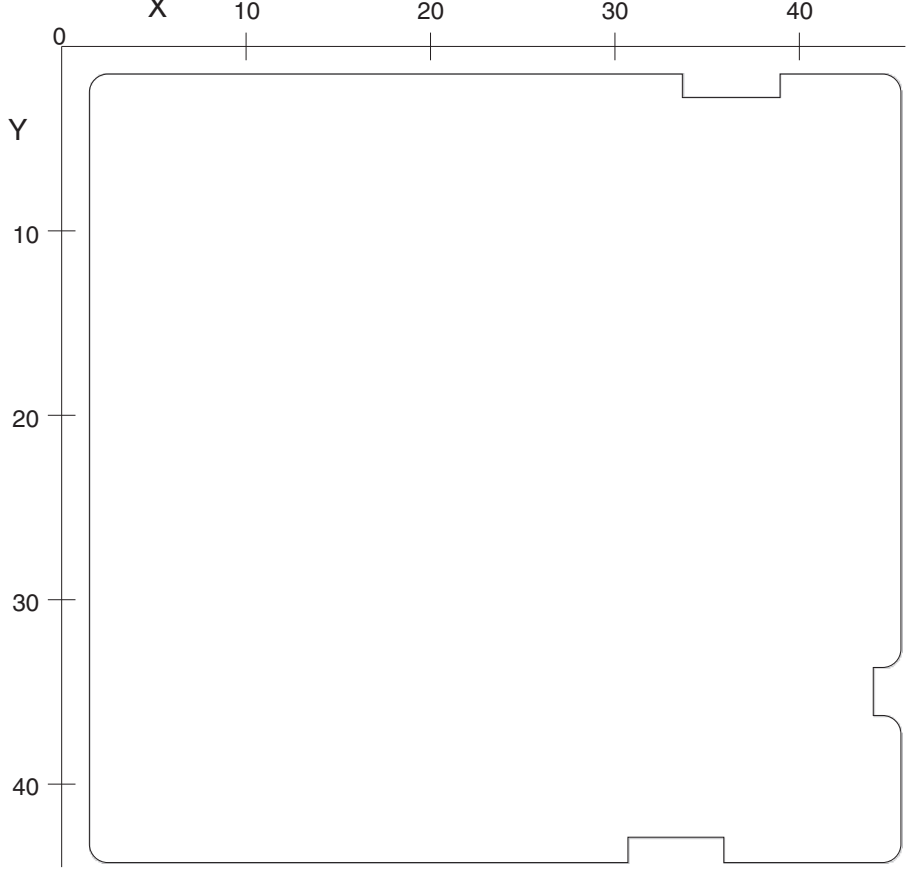
D SD UNIT

SIDE A



D SD UNIT

SIDE B



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/○S○○○○J, RS1/○○S○○○○J

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

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

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

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

IC 301 (A, 91, 111) IC NJM2068V

Circuit Symbol and No.	Part No.	Circuit Symbol and No.	Part No.
A:DEH-6350SD/XSES		IC 651 (A,69,104) IC	S-80827CNMC-B8M
B:DEH-6350SD/XSCN5		IC 801 (A,100,21) L-MOS And Gate	TC7SET08FUS1
Unit Number : YWM5508(A)		IC 831 (A,17,60) IC	NJM2360M
: YWM5512(B)		IC 901 (A,155,75) Regulator IC	S-1132B33-U5
Unit Name : Tuner Amp Unit		IC 911 (A,139,139) IC	NJM2388F84
Unit Number :		Q 201 (A,9,70) Transistor	LSC4081UB
Unit Name : Keyboard Unit		Q 301 (A,9,129) Chip Transistor	RN1910
Unit Number : CWX3985		Q 302 (A,18,129) Chip Transistor	RN1910
Unit Name : CD Core Unit(\$11.1STD-DOUT)		Q 303 (A,25,129) Chip Transistor	RN1910
Unit Number : YWM5516		Q 361 (A,56,132) Transistor	LTC114EUB
Unit Name : SD Unit		Q 381 (A,47,132) Transistor	LSC4081UB
		Q 382 (A,36,131) Chip Transistor	RN4983
		Q 591 (A,95,25) Transistor	LSA1576UB
		Q 751 (A,165,61) Transistor	2SD2396
		Q 752 (A,158,46) Chip Transistor	RN4983
		Q 781 (A,54,95) Chip Transistor	2SB1689
		Q 782 (A,57,94) Transistor	LTC114EUB
		Q 783 (A,61,91) Transistor	DTA123EU
		Q 821 (A,78,126) Transistor	2SA1036K
		Q 822 (A,77,119) Transistor	LTC114EUB
A		Q 831 (A,12,80) Chip Transistor	RN4983
Unit Number : YWM5508(A)		Q 832 (A,11,86) Transistor	2SD1664
: YWM5512(B)		Q 841 (A,135,26) Transistor	LSA1576UB
Unit Name : Tuner Amp Unit		Q 842 (A,135,22) Transistor	LTC114EUB
		Q 901 (A,165,73) Transistor	2SD2396
MISCELLANEOUS		Q 902 (A,152,55) Chip Transistor	RN4983
IC 151 (A,36,89) IC	R5523N001B	Q 921 (A,107,129) Chip Transistor	HN1C01FU
IC 161 (A,18,105) IC	BD9008F	D 161 (A,11,114) Diode	CRG03
IC 181 (A,108,73) IC	WM8761GED	D 163 (A,18,95) Diode	RB160L-40
IC 182 (A,59,100) Regulator IC	NJM2872F05	D 201 (A,13,69) Diode	UDZS15(B)
IC 201 (A,62,121) IC	PM9012A	D 241 (A,129,109) Diode	RB551V-30
IC 241 (A,122,109) IC	NJM4558MD	D 242 (A,129,108) Diode	RB551V-30
IC 351 (A,79,143) IC	PA2030A	D 244 (A,107,108) Diode	1SS300
IC 401 (A,153,96) IC	TDA7706	D 245 (A,113,109) Diode	RB551V-30
IC 451 (A,90,118) IC	NJM2886DL3-05	D 246 (A,113,111) Diode	RB551V-30
IC 501 (A,118,50) IC	R5S7262ZD144FPU	D 248 (A,112,107) Diode	RB751V-40
IC 571 (A,143,55) Software Unit	CWW2867	D 249 (A,112,105) Diode	RB751V-40
IC 581 (A,42,103) Regulator IC	S-1172B33-E6	D 381 (A,45,124) Diode	RKZ8.2KG(B2)
IC 583 (A,43,95) IC	BH12PB3WHFV	D 382 (A,45,129) Diode	1SS301
IC 591 (A,130,14) IC	341S2162	D 383 (A,41,132) Diode	1SS352
IC 601 (A,122,96) IC	PEG733A8	D 401 (A,162,110) Diode	KP2311E

	1	2	3	4
	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
A	D 402 (A,161,104) Diode	KP2311E	VA807 (A,100,15) Varistor	VR105C5R0AAA
	D 581 (A,44,87) Diode	1SS352	VA808 (A,123,14) Varistor	VR105C5R0AAA
	D 582 (A,37,99) Diode	CRG03	CN701 (A,92,40) Connector	VKN1192
	D 601 (A,99,86) Diode	RB551V-30	CN781 (A,92,62) Connector	VKN1186
	D 602 (A,121,106) Diode	RB751S-40	CN801 (A,110,5) Connector	CKS6188
■	D 651 (A,73,103) Diode	1SS352	JA301 (A,20,142) Pin Jack	YKB5016
	D 751 (A,152,44) Diode	RKZ8.2KG(B2)	JA401 (A,159,130) Antenna Jack	YKS5041
	D 801 (A,114,16) Diode	DZ2S068C	JA661 (A,43,140) Connector	CKS4124
	D 802 (A,117,16) Diode	DZ2S068C	JA981 (A,115,142) Plug	CKM1586
	D 803 (A,113,14) Diode	DZ2S068C	⚠ Fuse(10 A)	YEK5001
B	D 804 (A,119,14) Diode	DZ2S068C	RESISTORS	
	D 805 (A,121,14) Diode	DZ2S068C	R 151 (A,112,89)	RS1/16SS104J
	D 823 (A,19,115) Diode	CRG03	R 161 (A,23,99)	RS1/16SS513J
	D 824 (A,17,115) Diode	CRG03	R 163 (A,19,99)	RS1/16SS183J
	D 831 (A,9,81) Diode	RKZ10KG(B2)	R 164 (A,30,91)	RS1/16SS4702F
■	D 832 (A,18,66) Diode	RB551V-30	R 165 (A,30,93)	RS1/16SS682J
	D 901 (A,158,70) Diode	CRG03	R 166 (A,29,93)	RS1/16SS1002F
	D 902 (A,156,56) Diode	RKZ5.6KG(B2)	R 168 (A,29,90)	RS1/10SR471J
	D 921 (A,124,130) Diode	HZU7L(C3)	R 191 (A,77,109)	RS1/16SS821J
	D 922 (A,113,130) Diode	HZU7L(A1)	R 192 (A,77,111)	RS1/16SS821J
C	D 941 (A,98,130) Diode	CRG03	R 193 (A,36,92)	RS1/4SA221J
	D 942 (A,102,130) Diode	CRG03	R 194 (A,36,94)	RS1/4SA221J
	D 981 (A,136,117) Diode	1SR154-400	R 201 (A,56,127)	RAB4CQ102J
	D 982 (A,133,117) Diode	1SR154-400	R 202 (A,63,110)	RS1/16SS331J
	L 161 (A,23,93) Coil	CTH1475	R 207 (A,62,110)	RS1/16SS223J
■	L 181 (A,101,68) Chip Ferrite Bead	DTL1107	R 208 (A,65,110)	RS1/16SS223J
	L 182 (A,56,98) Inductor	CTF1786	R 209 (A,9,68)	RS1/10SR101J
	L 401 (A,162,107) Chip Coil	LCTAWR15J2520	R 210 (A,7,76)	RS1/10SR0R0J
	L 402 (A,154,106) Inductor	CTF1786	R 241 (A,127,109)	RS1/16SS104J
	L 403 (A,150,108) Inductor	CTF1786	R 242 (A,116,110)	RS1/16SS104J
D	L 404 (A,158,108) Chip Coil	LCTAWR27J2520	R 243 (A,127,111)	RS1/16SS473J
	L 405 (A,144,107) Inductor	CTF1389	R 244 (A,117,110)	RS1/16SS473J
	L 406 (A,142,105) Inductor	LCTAW220J2520	R 245 (A,129,106)	RS1/16SS474J
	L 407 (A,164,101) Inductor	CTF1786	R 246 (A,125,106)	RS1/16SS474J
	L 408 (A,164,99) Inductor	CTF1786	R 301 (A,6,130)	RS1/16SS820J
■	L 409 (A,141,99) Chip Coil	LCTAW470J2520	R 302 (A,13,129)	RS1/16SS820J
	L 411 (A,144,94) Inductor	CTF1786	R 303 (A,14,130)	RS1/16SS820J
	L 412 (A,162,88) Inductor	CTF1786	R 304 (A,31,130)	RS1/16SS820J
	L 415 (A,150,87) Inductor	CTF1786	R 305 (A,23,130)	RS1/16SS820J
	L 416 (A,155,86) Inductor	CTF1786	R 306 (A,28,130)	RS1/16SS820J
E	L 419 (A,158,105) Inductor	CTF1794	R 307 (A,6,132)	RS1/16SS223J
	L 451 (A,97,112) Chip Coil	LCTAWR27J2520	R 308 (A,12,131)	RS1/16SS223J
	L 501 (A,86,84) Chip Ferrite Bead	DTL1107	R 309 (A,14,131)	RS1/16SS223J
	L 502 (A,91,86) Chip Ferrite Bead	OTL8019	R 310 (A,30,131)	RS1/16SS223J
	L 602 (A,111,94) Inductor	CTF1786	R 311 (A,23,131)	RS1/16SS223J
■	L 801 (A,116,18) Inductor	CTF1713	R 312 (A,28,131)	RS1/16SS223J
	L 831 (A,25,72) Inductor	CTF1660	R 313 (A,20,131)	RS1/16SS0R0J
	L 981 (A,113,142) Choke Coil 600 uH	CTH1432	R 314 (A,20,132)	RS1/16SS0R0J
	X 401 (A,164,93) Oscillator 36.48 MHz	CSS1805	R 361 (A,55,137)	RS1/16SS103J
	X 501 (A,121,68) Oscillator 48.000 MHz	CSS1760	R 362 (A,57,135)	RS1/16SS103J
F	X 503 (A,99,43) Oscillator 16.93 MHz	CSS1794	R 363 (A,57,137)	RS1/16SS331J
	X 601 (A,109,97) Oscillator 20.000 MHz	CSS1795	R 365 (A,52,137)	RS1/16SS103J
	P 301 (A,26,120) Poly Switch	MINISMDC075F/24	R 366 (A,53,137)	RS1/16SS103J
	P 401 (A,157,112) Surge Protector	IMSA-6802-01Y900	R 367 (A,54,138)	RS1/16SS62J
	VA661 (A,50,138) Varistor	VR105C5R0AAA	R 372 (A,68,134)	RS1/16SS362J
■	VA662 (A,49,138) Varistor	VR105C5R0AAA	R 374 (A,68,131)	RS1/16SS362J
	VA801 (A,105,15) Varistor	VR105C5R0AAA	R 375 (A,75,130)	RS1/16SS362J
	VA802 (A,103,15) Varistor	VR105C5R0AAA	R 376 (A,75,128)	RS1/16SS362J
	VA803 (A,107,15) Varistor	VR105C5R0AAA		
	VA806 (A,101,15) Varistor	VR105C5R0AAA		

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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 377	(A,77,129)	RS1/16SS562J		R 595	(A,130,18)	RS1/16SS103J		
R 378	(A,76,130)	RS1/16SS562J		R 596	(A,127,16)	RS1/16SS473J		
R 379	(A,69,132)	RS1/16SS562J		R 599	(A,130,10)	RS1/16SS272J		
				R 600	(A,132,9)	RS1/16SS472J		A
R 380	(A,69,134)	RS1/16SS562J						
R 381	(A,45,126)	RS1/10SR473J		R 602	(A,130,84)	RS1/10SR472J		
R 382	(A,49,129)	RS1/10SR104J		R 603	(A,111,96)	RS1/16SS105J		
R 383	(A,109,85)	RS1/16SS473J		R 604	(A,111,98)	RS1/16SS101J		
R 384	(A,44,132)	RS1/10SR473J		R 605	(A,110,93)	RS1/16SS104J		
				R 606	(A,111,90)	RS1/16SS222J		
R 385	(A,38,131)	RS1/16SS102J						
R 401	(A,164,110)	RS1/16SS221J		R 607	(A,111,91)	RS1/16SS104J		
R 402	(A,164,104)	RS1/16SS751J		R 608	(A,120,84)	RS1/16SS104J		
R 403	(A,141,107)	RS1/16SS152J		R 609	(A,109,92)	RS1/16SS104J		
R 405	(A,145,104)	RS1/16SS105J		R 610	(A,108,92)	RS1/16SS104J		
				R 613	(A,117,84)	RS1/16SS104J		
R 406	(A,141,102)	RS1/16SS471J						B
R 407	(A,142,101)	RS1/16SS330J		R 614	(A,118,85)	RS1/16SS104J		
R 408	(A,143,97)	RS1/16SS681J		R 615	(A,116,84)	RS1/16SS104J		
R 409	(A,162,94)	RS1/16SS0R0J		R 616	(A,121,84)	RS1/16SS104J		
R 410	(A,142,85)	RS1/4SA8R2J		R 617	(A,123,84)	RS1/16SS104J		
				R 618	(A,124,85)	RS1/16SS104J		
R 412	(A,142,87)	RS1/4SA8R2J						
R 413	(A,147,111)	RS1/16SS105J		R 619	(A,126,84)	RS1/16SS472J		
R 414	(A,133,103)	RS1/16SS102J		R 620	(A,125,84)	RS1/16SS104J		
R 415	(A,132,106)	RS1/16SS102J		R 621	(A,122,84)	RS1/16SS104J		
R 417	(A,132,102)	RS1/16SS102J		R 623	(A,133,95)	RS1/16SS104J		
				R 626	(A,123,106)	RS1/16SS103J		
R 419	(A,134,105)	RS1/16SS103J						C
R 420	(A,132,105)	RS1/16SS103J		R 630	(A,131,100)	RS1/16SS104J		
R 469	(A,83,115)	RS1/16SS102J		R 643	(A,149,75)	RS1/16SS104J		
R 501	(A,131,63)	RS1/16SS473J		R 651	(A,75,102)	RS1/16SS104J		
R 502	(A,133,61)	RS1/16SS101J		R 652	(A,75,104)	RS1/16SS152J		
R 504	(A,129,65)	RS1/16SS473J		R 661	(A,50,135)	RS1/10SR102J		
R 505	(A,128,65)	RS1/16SS473J		R 662	(A,49,135)	RS1/10SR102J		
R 509	(A,127,65)	RS1/16SS473J		R 701	(A,96,49)	RS1/16SS472J		
R 510	(A,126,65)	RS1/16SS473J		R 702	(A,98,47)	RS1/16SS473J		
R 513	(A,118,65)	RS1/16SS102J		R 703	(A,99,27)	RS1/16SS472J		
R 518	(A,99,65)	RS1/16SS101J		R 704	(A,101,27)	RS1/16SS472J		
R 519	(A,115,65)	RS1/16SS5601F		R 705	(A,96,46)	RS1/10SR221J		
R 521	(A,103,55)	RS1/16SS473J		R 706	(A,97,46)	RS1/16SS221J		D
R 522	(A,103,54)	RS1/16SS473J		R 707	(A,102,36)	RS1/16SS101J		
R 526	(A,107,68)	RS1/16SS221J		R 708	(A,114,32)	RS1/16SS221J		
R 529	(A,103,42)	RS1/16SS332J		R 709	(A,102,34)	RS1/16SS101J		
R 530	(A,102,40)	RS1/16SS473J		R 710	(A,98,37)	RS1/16SS102J		
R 531	(A,87,15)	RS1/10SR473J		R 711	(A,96,37)	RS1/16SS151J		
R 532	(A,108,35) (A)	RS1/16SS561J		R 712	(A,96,36)	RS1/16SS151J		
	(A,108,35) (B)	RS1/16SS221J		R 713	(A,96,35)	RS1/16SS151J		
R 533	(A,109,35)	RS1/16SS101J		R 714	(A,95,32)	RS1/16SS221J		
R 534	(A,109,34)	RS1/16SS101J						
				R 715	(A,116,32)	RS1/16SS104J		
R 535	(A,111,35)	RS1/16SS221J		R 716	(A,97,32)	RS1/16SS104J		
R 544	(A,134,40)	RS1/16SS472J		R 717	(A,96,38)	RS1/16SS104J		E
R 554	(A,110,66)	RS1/16SS473J		R 751	(A,160,48)	RS1/10SR821J		
R 560	(A,133,42)	RS1/16SS473J		R 753	(A,158,51)	RS1/16SS473J		
R 561	(A,99,67)	RS1/16SS103J						
				R 754	(A,158,50)	RS1/16SS103J		
R 572	(A,137,42)	RS1/16SS472J		R 781	(A,96,63)	RS1/16SS221J		
R 574	(A,138,42)	RS1/16SS472J		R 783	(A,96,62)	RS1/16SS221J		
R 575	(A,132,28)	RAB4CQ221J		R 784	(A,96,61)	RS1/16SS221J		
R 576	(A,134,31)	RAB4CQ221J		R 785	(A,96,60)	RS1/16SS221J		
R 577	(A,136,32)	RAB4CQ221J						
				R 786	(A,96,59)	RS1/16SS221J		
R 578	(A,135,35)	RAB4CQ221J		R 787	(A,96,55)	RS1/16SS221J		
R 591	(A,97,26)	RS1/16SS472J		R 788	(A,96,56)	RS1/16SS221J		
R 592	(A,130,20)	RS1/16SS101J		R 789	(A,56,97)	RS1/10SR681J		F
R 593	(A,130,19)	RS1/16SS103J		R 790	(A,54,97)	RS1/10SR103J		
R 594	(A,132,18)	RS1/16SS101J						
				R 792	(A,101,54)	RAB4CQ473J		

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

R 793 (A,100,58) RAB4CQ473J
 R 794 (A,58,91) RS1/10SR102J
 R 801 (A,123,17) RS1/10SR222J
 R 802 (A,99,17) RS1/10SR222J
 R 803 (A,105,21) RS1/10SR222J
 R 804 (A,106,18) RS1/10SR222J
 R 805 (A,104,18) RS1/10SR222J
 R 809 (A,107,18) RS1/10SR104J
 R 810 (A,116,21) RS1/10SR8R2J

C 198 (A,114,72) (A)
 C 199 (A,56,100) (A)
 C 200 (A,111,78) (A)
 C 201 (A,59,112)
 C 202 (A,65,112)
 C 203 (A,62,111)
 C 204 (A,17,69)

CCSRCH150J50
 CKSSYB104K16
 CCSRCH220J50
 CKSRYB105K10
 CKSRYB105K10
 CKSQYB225K10
 CKSRYB104K16

R 811 (A,115,21) RS1/10SR8R2J
 R 812 (A,107,21) RS1/16SS104J
 R 813 (A,97,21) RS1/16SS104J
 R 814 (A,113,18) RS1/10SR101J
 R 815 (A,107,20) RS1/16SS103J

C 205 (A,9,76)
 C 206 (A,15,74) Capacitor
 C 209 (A,71,115)
 C 210 (A,71,113)
 C 211 (A,69,109)

CKSRYB104K16
 CEVW470M16
 CKSRYB224K16
 CKSRYB224K16
 CKSRYB105K10

R 816 (A,121,18) RS1/10SR101J
 R 819 (A,102,19) RS1/16SS332J
 R 821 (A,76,116) RS1/10SR1R0J
 R 822 (A,79,124) RS1/16SS472J
 R 823 (A,81,127) RS1/16SS103J

C 212 (A,70,111)
 C 213 (A,71,121) 10 uF
 C 214 (A,70,123) 10 uF
 C 215 (A,69,125)
 C 216 (A,70,126) 10 uF

CKSRYB105K10
 CCG1192
 CCG1192
 CKSSYB104K10
 CCG1192

R 825 (A,77,123) RS1/10SR222J
 R 832 (A,7,86) RS1/10SR122J
 R 833 (A,14,83) RS1/16SS1R0J
 R 835 (A,19,55) RS1/10SR821J
 R 836 (A,8,55) RS1/10SR153J

C 217 (A,74,125)
 C 218 (A,72,126) 10 uF
 C 219 (A,57,120)
 C 220 (A,68,117)
 C 241 (A,127,107)

CKSSYB104K10
 CCG1192
 CKSRYB105K10
 CKSRYB105K10
 CKSSYB104K10

R 837 (A,12,55) RS1/10SR332J
 R 838 (A,11,55) RS1/10SR222J
 R 842 (A,131,23) RS1/16SS472J
 R 843 (A,136,24) RS1/16SS102J
 R 844 (A,138,26) RS1/16SS103J

C 242 (A,117,109)
 C 243 (A,128,111)
 C 244 (A,116,111)
 C 245 (A,130,106)
 C 246 (A,115,108)

CKSSYB104K10
 CKSSYB104K10
 CKSSYB104K10
 CKSSYB474K6R3
 CKSSYB474K6R3

R 901 (A,150,55) RS1/16SS332J
 R 902 (A,159,56) RS1/16SS223J
 R 911 (A,149,137) RS1/16SS102J
 R 912 (A,147,137) RS1/16SS473J
 R 921 (A,121,130) RS1/16SS104J

C 247 (A,128,106)
 C 248 (A,115,107)
 C 249 (A,127,112)
 C 260 (A,62,113)
 C 301 (A,8,126) 10 uF

CCSSCH101J50
 CCSSCH101J50
 CKSSYB103K16
 CKSRYB105K10
 CCG1192

R 922 (A,110,130) RS1/16SS103J
 R 923 (A,124,128) RS1/16SS473J
 R 924 (A,111,128) RS1/16SS473J
 R 925 (A,114,128) RS1/16SS472J
 R 926 (A,118,130) RS1/4SA102J

C 302 (A,13,126) 10 uF
 C 303 (A,18,126) 10 uF
 C 304 (A,34,131) 10 uF
 C 305 (A,23,127) 10 uF
 C 306 (A,30,128) 10 uF

CCG1192
 CCG1192
 CCG1192
 CCG1192
 CCG1192

CAPACITORS

C 151 (A,33,89) CKSSYB104K10
 C 152 (A,33,87) CKSSYB104K10
 C 161 (A,10,105) CEJQ221M16
 C 162 (A,16,99) CKSRYB105K16
 C 164 (A,19,100) CCSSCH220J50

C 351 (A,73,133)
 C 352 (A,73,134)
 C 353 (A,80,131)
 C 354 (A,81,131)
 C 355 (A,76,133)

CKSRYB474K10
 CKSRYB474K10
 CKSRYB474K10
 CKSRYB474K10
 CKSRYB474K10

C 165 (A,20,100) CKSSYB153K16
 C 166 (A,24,84) Capacitor CEVW221M10
 C 182 (A,105,77) 10 uF CCG1192
 C 183 (A,102,70) CKSSYB103K16
 C 184 (A,104,68) 10 uF CCG1192

C 356 (A,76,134)
 C 357 (A,80,134)
 C 358 (A,81,134)
 C 361 (A,131,123) 3 300 uF/16 V
 C 362 (A,63,139)

CKSRYB474K10
 CKSRYB474K10
 CKSRYB474K10
 CCH1486
 CKSRYB104K16

C 186 (A,99,70) CKSRYB105K10
 C 187 (A,58,102) CKSSYB104K10
 C 188 (A,61,100) CKSSYB104K10
 C 190 (A,114,74) CKSSYB102K50
 C 191 (A,75,108) CCSRCH182J50

C 363 (A,85,131) 2.2 uF
 C 364 (A,83,132) 2.2 uF
 C 365 (A,65,133) 10 uF
 C 367 (A,58,133) 10 uF
 C 377 (A,79,129)

CCG1205
 CCG1205
 CCG1236
 CCG1192
 CCSSCH220J50

C 192 (A,75,111) CCSRCH182J50
 C 196 (A,100,72) (A) CKSSYB221K50
 (A,100,72) (B) CKSSYB681K50
 C 197 (A,109,78) (A) CCSRCH220J50

C 378 (A,78,130)
 C 379 (A,70,133)
 C 380 (A,71,134)
 C 381 (A,40,127) Capacitor
 C 401 (A,157,110)

CCSSCH220J50
 CCSSCH220J50
 CCSSCH220J50
 CEVW220M16
 CCSSCH330J50

C 402 (A,160,109)
 C 403 (A,163,109)
 C 404 (A,153,105)

CCSSCH6R0D50
 CKSSYB103K16
 CKSSYB104K16

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<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>		
C 405	(A,150,105)	CKSSYB104K16		C 526	(A,113,67)	CKSSYB104K10		
C 406	(A,162,105)	CKSSYB103K16		C 527	(A,113,65)	CKSSYB104K10		
C 407	(A,151,105)	CKSSYB104K16		C 528	(A,112,65)	CKSSYB104K10		A
C 409	(A,164,105)	CKSSYB103K16		C 529	(A,108,65)	CKSSYB104K10		
C 410	(A,151,104)	CKSSYB103K16		C 530	(A,107,65)	CKSSYB104K10		
C 411	(A,148,104)	CKSSYB103K16		C 531	(A,103,57)	CKSSYB104K10		
C 412	(A,147,105) 10 uF	CCG1192		C 532	(A,103,56)	CKSSYB104K10		
C 413	(A,155,105)	CKSSYB103K16		C 533	(A,103,52)	CKSSYB104K10		
C 414	(A,155,107)	CKSRYB105K10		C 534	(A,103,51)	CKSSYB104K10		
C 415	(A,144,104)	CKSSYB103K16		C 535	(A,101,48)	CKSRYB104K16		
C 416	(A,162,102)	CKSRYB224K16		C 536	(A,103,44)	CKSRYB104K16		
C 417	(A,162,101)	CKSSYB104K16		C 537	(A,103,40)	CKSSYB104K10		
C 418	(A,141,103) 10 uF	CCG1192		C 538	(A,103,39)	CKSSYB104K10		
C 419	(A,161,98)	CKSRYB105K10		C 539	(A,112,35)	CKSSYB104K10		B
C 420	(A,143,102)	CKSSYB104K16		C 540	(A,113,35)	CKSSYB104K10		
C 421	(A,141,101)	CCSSCH101J50		C 541	(A,117,33)	CKSSYB104K10		
C 422	(A,145,102)	CKSSYB104K16		C 542	(A,121,35)	CKSSYB104K10		
C 423	(A,139,101)	CKSSYB103K16		C 543	(A,126,34)	CKSSYB104K10		
C 424	(A,165,97)	CKSSYB472K25		C 544	(A,127,35)	CKSSYB104K10		
C 425	(A,165,98)	CKSSYB472K25		C 545	(A,98,67)	CKSSYB105K6R3		
C 426	(A,162,96)	CKSSYB104K16		C 546	(A,130,70)	CKSSYB102K50		
C 427	(A,143,96)	CCSSCH820J50		C 548	(A,97,42)	CCSSCH120J50		
C 428	(A,164,95)	CCSSCH100D50		C 549	(A,97,44)	CCSSCH120J50		
C 429	(A,164,90)	CCSSCH100D50		C 571	(A,135,39) 10 uF	CCG1192		
C 430	(A,142,91)	CKSRYB474K16		C 572	(A,136,47)	CKSSYB104K10		C
C 431	(A,161,91)	CKSSYB104K16		C 574	(A,140,67)	CKSSYB103K16		
C 432	(A,159,89) 2.2 uF	CCG1205		C 581	(A,37,103) 10 uF	CCG1192		
C 434	(A,144,95)	CKSSYB102K50		C 583	(A,42,99) 10 uF	CCG1192		
C 439	(A,147,87)	CKSRYB105K10		C 585	(A,47,95) 10 uF	CCG1192		
C 440	(A,150,89)	CKSSYB104K10		C 588	(A,43,92) 10 uF	CCG1192		
C 441	(A,152,88) 2.2 uF	CCG1205		C 591	(A,132,11)	CKSSYB104K10		
C 443	(A,147,109)	CKSSYB103K16		C 592	(A,132,10)	CKSSYB104K10		
C 445	(A,145,105)	CKSSYB223K16		C 604	(A,106,98)	CCSSCH100D50		
C 447	(A,145,91)	CKSSYB102K50		C 605	(A,106,96)	CCSSCH120J50		
C 448	(A,159,102)	CKSSYB104K16		C 606	(A,111,95)	CKSSYB105K6R3		
C 451	(A,95,111) 4.7 uF	CCG1201		C 608	(A,131,95)	CKSRYB105K10		D
C 452	(A,92,110)	CKSRYB103K50		C 610	(A,72,105)	CKSSYB104K10		
C 453	(A,89,111) 4.7 uF	CCG1201		C 651	(A,71,101)	CKSRYB105K10		
C 454	(A,141,96)	CKSSYB104K16		C 703	(A,97,33)	CCSSCH220J50		
C 501	(A,86,86) 10 uF	CCG1192		C 704	(A,100,31)	CCSRCH100D50		
C 503	(A,91,83) 10 uF	CCG1192		C 705	(A,97,31)	CCSSCH220J50		
C 504	(A,89,87) 10 uF	CCG1192		C 706	(A,115,32)	CKSSYB103K16		
C 506	(A,93,83) 10 uF	CCG1192		C 754	(A,155,45)	CKSSYB473K16		
C 507	(A,133,40)	CKSSYB104K10		C 788	(A,96,75)	CKSRYB102K50		
C 508	(A,134,42)	CKSSYB104K10		C 801	(A,125,6)	CKSRYB104K16		
C 509	(A,133,48)	CKSSYB104K10		C 802	(A,126,9)	CKSRYB105K16		E
C 510	(A,134,49)	CKSSYB104K10		C 803	(A,100,20)	CKSSYB104K10		
C 511	(A,133,53)	CKSSYB104K10		C 822	(A,77,121)	CKSQYB105K16		
C 512	(A,134,54)	CKSSYB104K10		C 831	(A,11,83)	CKSSYB473K16		
C 513	(A,133,59)	CKSSYB104K10		C 832	(A,13,83)	CKSSYB104K16		
C 514	(A,134,59)	CKSSYB104K10		C 833	(A,25,62)	CEVW101M16		
C 515	(A,133,63)	CKSSYB103K16		C 834	(A,17,55)	CKSRYB104K16		
C 516	(A,130,65)	CKSSYB104K10		C 835	(A,14,65)	CCSRCH471J50		
C 519	(A,124,65)	CKSSYB104K10		C 836	(A,8,54)	CCSRCH101J50		
C 520	(A,121,65)	CKSSYB104K10		C 838	(A,9,60) Capacitor	CEVW470M16		
C 521	(A,120,65)	CKSSYB104K10		C 839	(A,8,65) 10 uF	CCG1236		F
C 522	(A,115,67)	CKSSYB104K10		C 901	(A,156,64)	CEAT102M16(P30)		
C 523	(A,120,70)	CCSSCH100D50		C 902	(A,160,56)	CKSSYB103K16		
C 524	(A,122,70)	CCSSCH100D50		C 904	(A,151,59) 10 uF	CCG1192		
C 525	(A,116,65)	CKSSYB104K10		C 905	(A,159,80)	CKSQYB475K6R3		

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

C 907	(A,155,80)	CKSQYB475K6R3
C 911	(A,147,130) Capacitor	CEVW221M10
C 913	(A,139,131)	CEVW101M16
C 921	(A,115,128)	CKSSYB104K16
C 941	(A,102,128)	CKSRYB473K50

CN1	(B,108,10) Connector	CKS6049
CN2	(A,156,26) Connector	YKS5039
CN3	(A,154,11) Jack	YKN5006
LCD		YAW5109

RESISTORS**B****Unit Number : (A)****: (B)****Unit Name : Keyboard Unit****MISCELLANEOUS**

IC 1	(B,84,22) IC	PD6538A
IC 2	(A,125,7) Remote IC	GP1UXC14RK
Q 1	(B,55,24) Transistor	IMX9
Q 2	(B,147,22) Transistor	LTC114EUB
D 1	(A,77,8) LED	CL-197HB1-D(CDE)
D 2	(A,91,8) LED	CL-197HB1-D(CDE)
D 3	(A,102,7) LED	CL-197HB1-D(CDE)
D 4	(A,40,29) LED	CL-197HB1-D(CDE)
D 5	(A,51,29) LED	CL-197HB1-D(CDE)
D 6	(A,61,29) LED	CL-197HB1-D(CDE)
D 7	(A,40,12) LED	CL-197HB1-D(CDE)
D 8	(A,50,11) LED	CL-197HB1-D(CDE)
D 9	(A,60,11) LED	CL-197HB1-D(CDE)
D 10	(A,8,33) LED	CL-197HB1-D(CDE)
D 11	(A,29,33) LED	CL-197HB1-D(CDE)
D 12	(A,43,20) LED	CL-197HB1-D(CDE)
D 13	(A,11,21) LED	CL-197HB1-D(CDE)
D 14	(A,8,14) LED	CL-197HB1-D(CDE)
D 15	(A,29,9) LED	CL-197HB1-D(CDE)
D 16	(A,159,26) LED	CL-197HB1-D(CDE)
D 17	(A,153,39) LED	CL-197HB1-D(CDE)
D 35	(A,149,22) White LED	SMLXA4WBETW1(Z1)
D 36	(B,84,9) Diode	1SS300
D 37	(B,87,9) Diode	1SS301
D 38	(B,147,19) Diode	DZ2S068C
D 39	(B,147,20) Diode	DZ2S068C
D 40	(B,147,17) Diode	DZ2S068C
D 41	(B,148,26) Varistor	EZJZ1V800AM
D 42	(B,147,25) Varistor	EZJZ1V800AM
D 43	(A,53,20) LED	CL-197HB1-D(CDE)
D 44	(A,63,20) LED	CL-197HB1-D(CDE)
L 1	(B,105,18) Inductor	CTF1389
X 1	(B,79,10) Ceramic Resonator 5.00 MHz	CSS1547
S 1	(A,7,37) Push Switch	CSG1155
S 2	(A,7,10) Push Switch	CSG1155
S 3	(A,107,8) Push Switch	CSG1155
S 4	(A,41,32) Push Switch	CSG1155
S 5	(A,40,9) Push Switch	CSG1155
S 6	(A,95,8) Push Switch	CSG1155
S 7	(A,51,32) Push Switch	CSG1155
S 8	(A,51,8) Push Switch	CSG1155
S 9	(A,72,8) Push Switch	CSG1155
S 10	(A,61,32) Push Switch	CSG1155
S 11	(A,60,8) Push Switch	CSG1155
S 12	(A,158,40) Push Switch	CSG1155
S 13	(A,22,21) Switch(MULTI-CONTROL)	CSX1120

R 4	(B,90,12)	RS1/16S121J
R 6	(B,61,8)	RS1/4SA122J
R 7	(B,39,24)	RS1/4SA122J
R 8	(B,42,8)	RS1/4SA122J
R 9	(B,9,33)	RS1/4SA122J
R 10	(B,9,12)	RS1/4SA122J
R 11	(B,159,37)	RS1/4SA122J
R 12	(B,153,39)	RS1/4SA122J
R 20	(B,153,36)	RS1/4SA221J
R 21	(B,32,8)	RS1/16S122J
R 22	(B,30,8)	RS1/16S822J
R 23	(B,34,10)	RS1/16S332J
R 24	(B,34,12)	RS1/16S182J
R 25	(B,90,10)	RS1/16S222J
R 26	(B,90,9)	RS1/16S222J
R 27	(B,90,11)	RS1/16S683J
R 28	(B,140,18)	RS1/16S101J
R 29	(B,145,18)	RS1/16S101J
R 31	(B,54,27)	RS1/16S103J
R 32	(B,56,21)	RS1/16S103J
R 33	(B,53,24)	RS1/16S103J
R 36	(B,42,19)	RS1/4SA182J
R 38	(B,146,32)	RS1/4SA271J

CAPACITORS

C 1	(B,100,19)	CKSRYB104K16
C 2	(B,99,19)	CKSRYB104K16
C 3	(B,101,19)	CKSRYB104K16
C 4	(B,103,19)	CKSRYB105K10
C 5	(B,127,18) 10 uF	CCG1192
C 6	(A,81,8)	CKSRYB472K50
C 7	(A,84,8)	CKSRYB472K50
C 8	(A,102,10)	CKSRYB472K50
C 9	(A,39,29)	CKSRYB472K50
C 10	(A,49,29)	CKSRYB472K50
C 11	(A,59,29)	CKSRYB472K50
C 12	(A,38,12)	CKSRYB472K50
C 13	(A,48,11)	CKSRYB472K50
C 14	(A,58,11)	CKSRYB472K50
C 15	(A,9,33)	CKSRYB472K50
C 16	(A,28,30)	CKSRYB472K50
C 17	(A,43,18)	CKSRYB472K50
C 18	(A,12,21)	CKSRYB472K50
C 19	(A,9,14)	CKSRYB472K50
C 20	(A,31,9)	CKSRYB472K50
C 21	(A,163,25)	CKSRYB472K50
C 22	(A,153,38)	CKSRYB472K50
C 23	(B,143,18)	CKSRYB472K50
C 24	(B,142,18)	CKSRYB472K50
C 26	(B,148,29)	CCSRCH101J50
C 27	(B,147,29)	CKSRYB102K50
C 28	(A,53,18)	CKSRYB472K50
C 29	(A,63,18)	CKSRYB472K50

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**Unit Number : CWX3985****Unit Name : CD Core Unit(\$11.1STD-DOUT)****MISCELLANEOUS**

IC 201	(A,28,33)	IC	PE5756A
IC 301	(A,64,27)	IC	BA5839FP
Q 101	(B,8,56)	Transistor	2SA1577
Q 102	(B,21,51)	Chip Digital Transistor	LTA123JUB
X 201	(A,15,27)	Ceramic Resonator 16.934 MHz	CSS1603

S 901	(A,42,53)	Switch(HOME)	CSN1080
S 903	(B,21,12)	Switch(DSCSNS)	CSN1081

CN101	(A,16,58)	Connector	CKS4808
CN701	(A,37,10)	Connector	CKS6146

RESISTORS

R 101	(B,6,59)	RS1/10SR2R4J
R 102	(B,7,59)	RS1/10SR2R4J
R 103	(B,8,59)	RS1/10SR2R7J
R 108	(B,19,53)	RS1/16SS105J
R 109	(B,11,52)	RS1/16SS222J

R 214	(A,38,41)	RS1/16SS103J
R 215	(A,38,40)	RS1/16SS393J
R 216	(A,30,44)	RS1/16SS122J
R 217	(A,33,46)	RS1/16SS562J
R 218	(A,30,46)	RS1/16SS472J

R 225	(A,33,23)	RS1/16SS0R0J
R 229	(A,31,44)	RS1/16SS471J
R 232	(A,19,21)	RS1/16SS0R0J
R 235	(A,45,32)	RS1/16SS103J
R 236	(A,46,32)	RS1/16SS103J

R 237	(B,24,25)	RS1/16SS221J
R 240	(B,26,30)	RS1/16SS473J
R 245	(B,28,30)	RS1/16SS104J
R 254	(B,29,30)	RS1/16SS104J
R 260	(B,41,21)	RS1/16SS103J

R 262	(A,44,32)	RS1/16SS472J
R 263	(A,47,32)	RS1/16SS472J
R 264	(A,44,25)	RS1/16SS102J
R 281	(A,31,22)	RS1/16SS560J
R 282	(A,30,22)	RS1/16SS560J

R 283	(B,32,18)	RS1/16SS0R0J
R 291	(B,31,17)	RS1/16SS560J
R 292	(B,32,16)	RS1/16SS0R0J
R 293	(B,32,11)	RS1/16SS0R0J
R 294	(A,18,28)	RS1/16SS471J

R 296	(B,32,30)	RS1/16SS0R0J
R 299	(B,31,13)	RS1/16SS0R0J
R 305	(A,60,34)	RS1/16SS183J
R 306	(A,61,37)	RS1/16SS183J
R 307	(A,58,34)	RS1/16SS183J

R 308	(A,58,36)	RS1/16SS183J
R 701	(B,37,21)	RS1/16SS101J
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)
R 722	(B,37,22)

RS1/16SS0R0J
RS1/16SS0R0J

CAPACITORS

C 104	(B,11,55)	CKSQYB475K6R3
C 203	(A,18,35)	CKSSYB104K10
C 209	(A,17,28)	CKSRYB104K16
C 210	(A,21,21)	CKSSYB104K10
C 211	(A,24,23)	CKSSYB104K10

C 212	(A,38,33)	CKSSYB104K10
C 213	(A,40,41)	CKSSYB332K50
C 214	(A,40,40)	CKSSYB473K10
C 215	(A,38,37)	CKSSYB104K10
C 216	(A,36,46)	CKSSYB182K50

C 217	(A,31,46)	CCSSCH560J50
C 218	(A,29,46)	CCSSCH4R0C50
C 219	(A,32,43)	CKSSYB104K10
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
C 236	(B,26,41)	CKSSYB104K10

C 238	(A,15,35)	CKSRYB104K16
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
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**Unit Number : YWM5516****Unit Name : SD Unit****MISCELLANEOUS**

CN1202	(A,5,33)	Connector	VKN1302
JA1203	(A,30,23)	Connector	YKS5040

Miscellaneous Parts List

M 1	Motor Unit(SPDL)	CXE2273
M 2	Motor Unit(LOAD/CRG)	CXC4026
	Pickup Unit(P10.5)(Service)	CXX1942