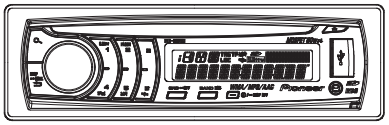
Pioneer

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".

PIONEER CORPORATION 1-1, Shin-ogura, Saiwai-ku, Kawasaki-shi, Kanagawa 212-0031, Japan
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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 µW(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.

[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

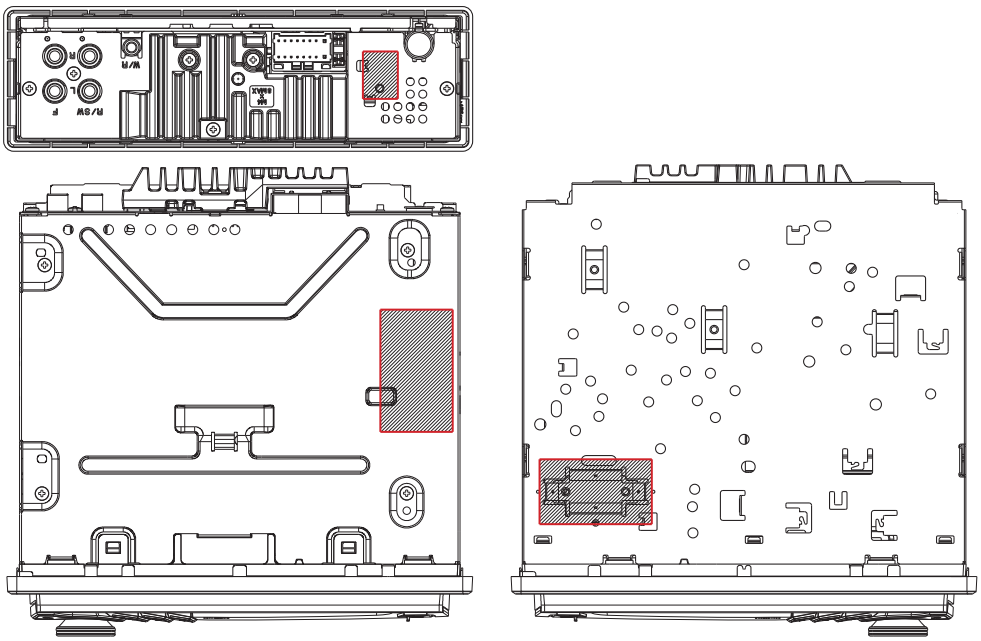
To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

CONTENTS

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.



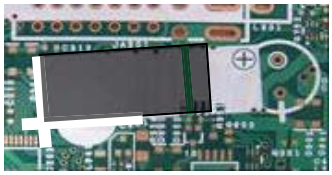
7. Notes on replacing parts
   The part listed below is difficult to replace as a discrete component part.
   When the part listed in the table is defective, replace whole Assy.

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

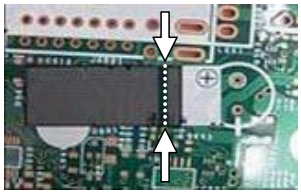
8. How to Handle Infrared Deteching unit for Remote Control of Grille
   The infrared deteching unit for remote control of keyboard unit is not fixed with cushion, etc.
   When external force is applied on the infrared deteching unit for remote control, the light receiving sensitivity might be deteriorated since the lead bents and attaching angle of the light receiving part may be varied.
   Please do not apply external force onto the infrared deteching 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 deteching 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

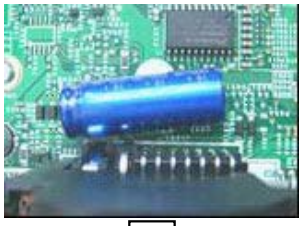
①



②



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

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1.2 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40°C.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373°C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

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

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

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

2. SPECIFICATIONS
2.1 SPECIFICATIONS

• **DEH-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 ..... 负极型
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）

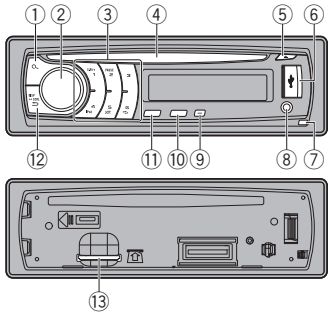
注意

规格和设计将会不断修改，不作另行通知。

2.2 DISC/CONTENT FORMAT

2.3 PANEL FACILITIES

Head unit



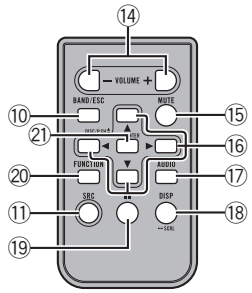
	Part		Part
①	🔍 (list)	⑧	AUX input jack (3.5 mm stereo jack)
②	**MULTI-CONTROL (M.C.)**	⑨	🕘 **/DISP OFF**
③	**1** to **6**	⑩	**BAND/ESC**
④	Disc loading slot	⑪	**SRC/OFF**
⑤	⏏ (eject)	⑫	⮌**/DISP/SCRL**
⑥	USB port	⑬	Removing the front panel, you can see the SD memory card slot.
⑦	Detach button		

⚠ 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.

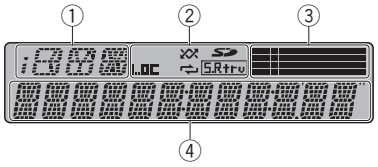
Do not use unauthorized products.

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	**FUNCTION**	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.

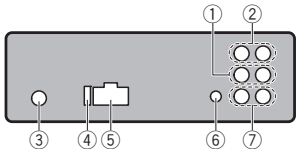
Display indication



	Indicator	State
①	Information display section	Source, band, and menu operation guides are displayed.
②	**LOC**	Local seek tuning is on.
	🔀 (random) 🔀 (shuffle)	The random function is on. The iPod source is selected and the shuffle or shuffle all function is on.
	🔁 (repeat)	The repeat function is on.
	SD (SD memory card)	SD/SDHC memory card is inserted.
	5.Rtrv (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

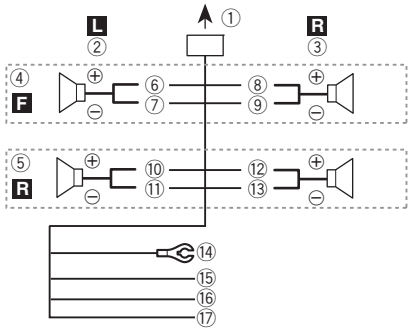
This unit



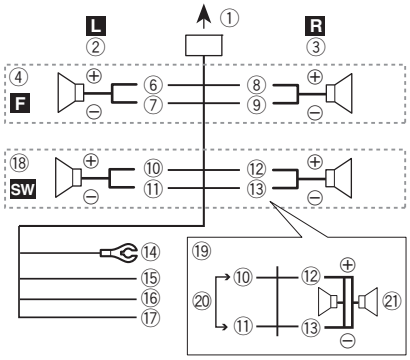
① Front output
② Rear output
③ Antenna input
④ Fuse (10 A)
⑤ Power cord input
⑥ Wired remote input
Hard-wired remote control adaptor can be connected (sold separately).
⑦ Subwoofer output

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.



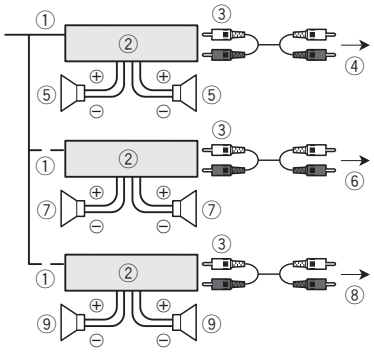
① To power cord input
② Left
③ Right
④ Front speaker
⑤ Rear speaker
⑥ White
⑦ White/black
⑧ Gray
⑨ Gray/black
⑩ Green
⑪ Green/black
⑫ Violet
⑬ Violet/black
⑭ Black (chassis ground)
Connect to a clean, paint-free metal location.
⑮ Yellow
Connect to the constant 12 V supply terminal.
⑯ Red
Connect to terminal 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)

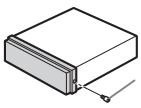
Perform these connections when using the optional amplifier.



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.



Screw
ES, CN5 : XXX7020

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

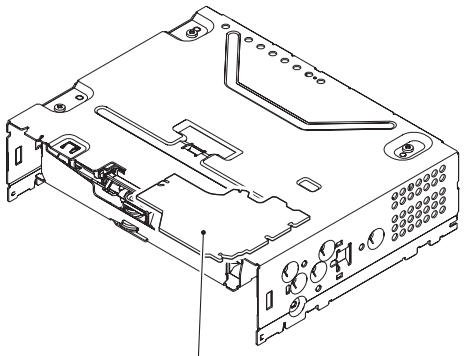
To keep the product quality after servicing, please confirm following check points.

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

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

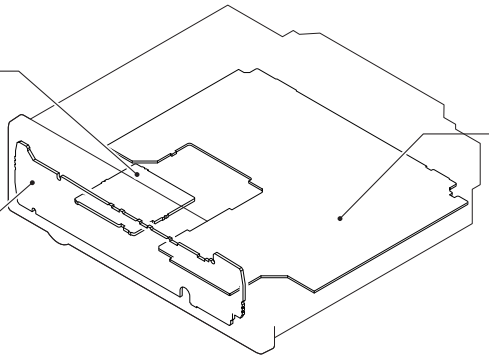
Item to be checked regarding audio
Distortion
Noise
Volume too low
Volume too high
Volume fluctuating
Sound interrupted

3.2 PCB LOCATIONS



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

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



D SD Unit

A Tuner Amp Unit

B Keyboard Unit

3.3 JIGS LIST

● **Jigs List**

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

● **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

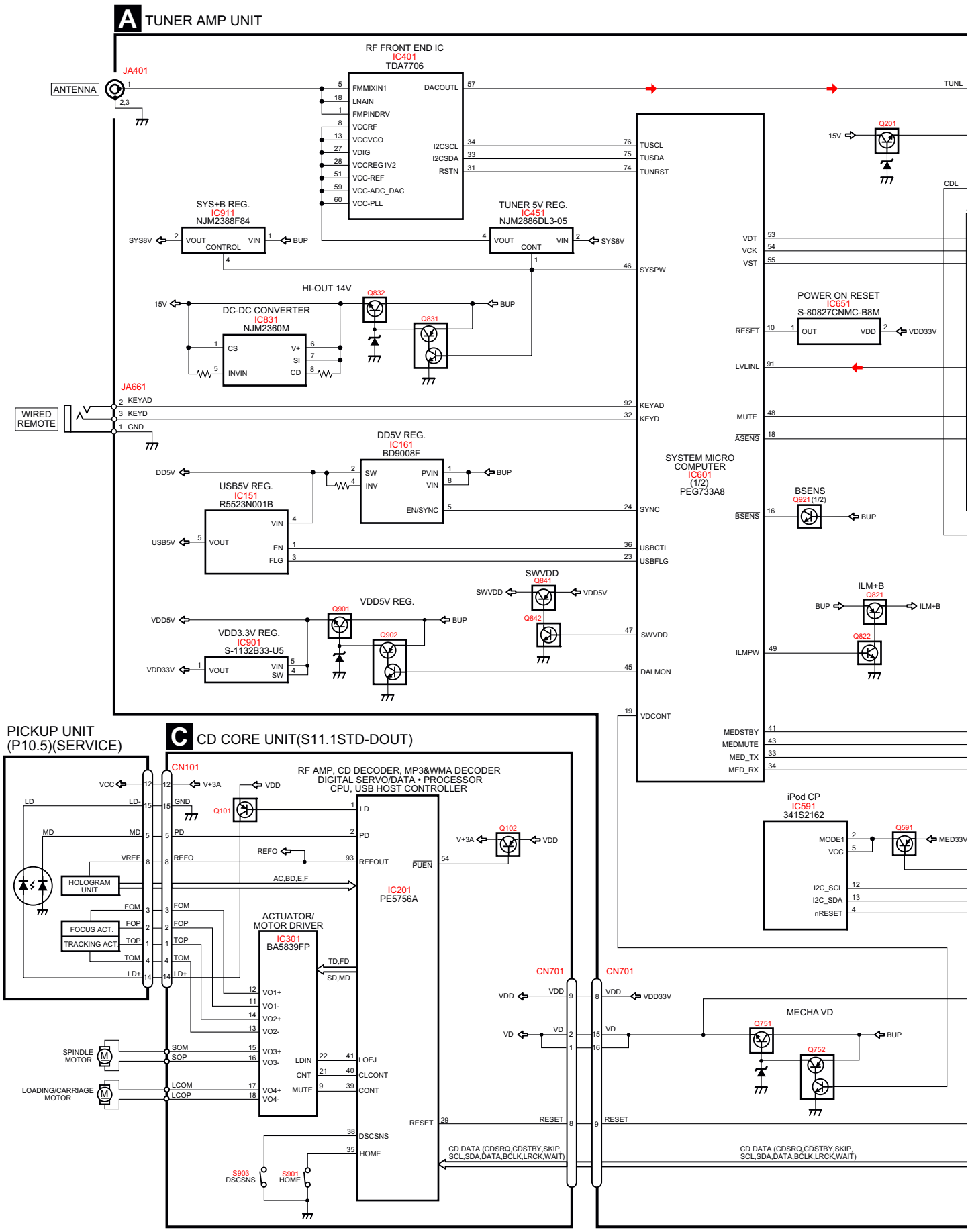
3.4 CLEANING

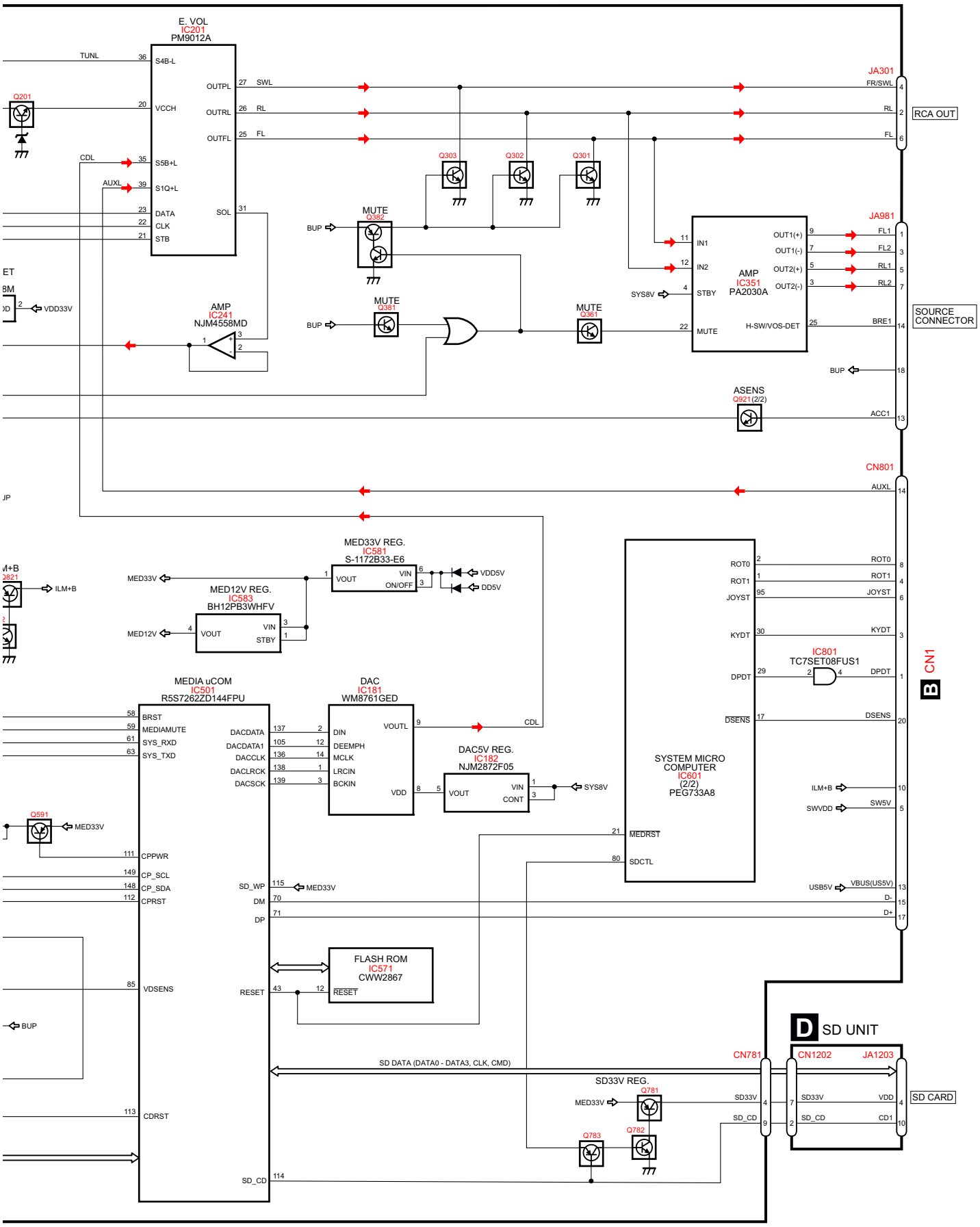
Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

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

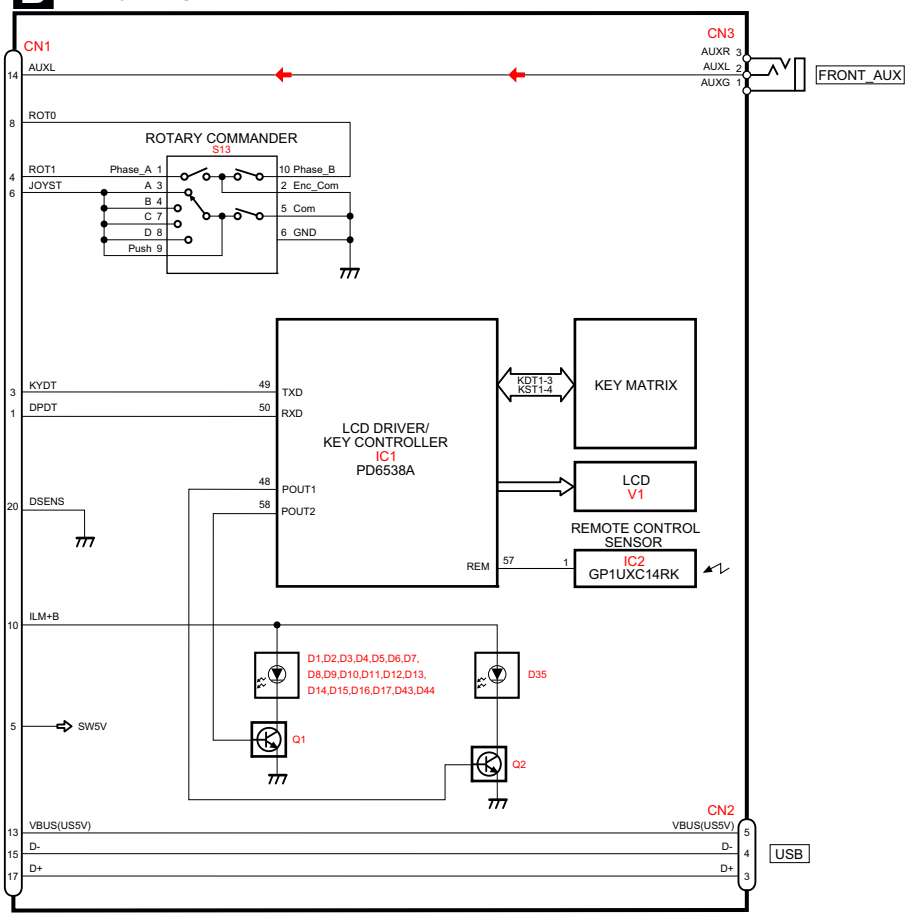
4. BLOCK DIAGRAM

4.1 BLOCK DIAGRAM



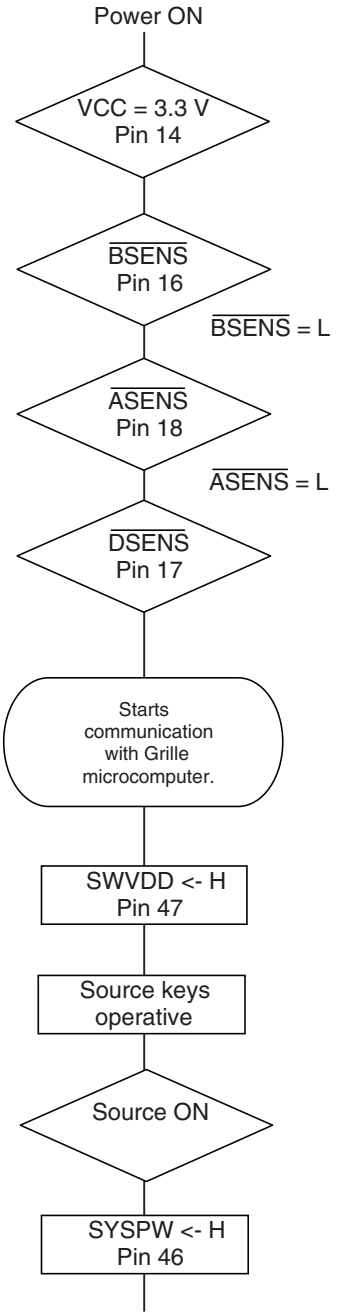

E. VOL
IC201
PM9012A
TUNL
S4B-L
OUTPL
OUTRL
OUTFL
SWL
RL
FL
Q201
VCCH
CDL
S5B+L
AUXL
S1Q+L
DATA
CLK
STB
SOL
JA301
FR/SWL
RCA OUT
Q303
Q302
Q301
MUTE
Q382
BUP
MUTE
Q381
MUTE
Q361
AMP
IC351
PA2030A
IN1
IN2
STBY
MUTE
SYS8V
OUT1(+)
OUT1(-)
OUT2(+)
OUT2(-)
H-SW/VOS-DET
JA981
FL1
FL2
RL1
RL2
BRE1
SOURCE CONNECTOR
BUP
ASENS
Q921 (2/2)
ACC1
AMP
IC241
NJM4558MD
VDD33V
CN801
AUXL
MED33V REG.
IC581
S-1172B33-E6
VOUT
VIN
ON/OFF
VDD5V
DD5V
MED33V
MED12V REG.
IC583
BH12PB3WHFV
MED12V
VOUT
VIN
STBY
ILM+B
ROT0
ROT1
JOYST
KYDT
DPDT
DSENS
IC801
TC7SET08FUS1
CN1
B
MEDIA uCOM
IC501
R5S7262ZD144FPU
BRST
MEDIAMUTE
SYS_RXD
SYS_TXD
DACDATA
DACDATA1
DACCLK
DACLRCK
DACSCK
DAC
IC181
WM8761GED
DIN
DEEMPH
MCLK
LRCIN
BCKIN
VOUTL
VDD
CDL
DAC5V REG.
IC182
NJM2872F05
VOUT
VIN
CONT
SYS8V
SYSTEM MICRO COMPUTER
IC601
(2/2)
PEG733A8
MEDRST
SDCTL
Q591
MED33V
CPPWR
CP_SCL
CP_SDA
CPRST
SD_WP
DM
DP
RESET
FLASH ROM
IC571
CWW2867
RESET
ILM+B
SW5V
SWVDD
USB5V
VBUS(US5V)
D-
D+
VDSENS
BUP
CDRST
SD_CD
SD DATA (DATA0 - DATA3, CLK, CMD)
D SD UNIT
CN781
CN1202
JA1203
SD CARD
SD33V REG.
Q781
Q783
Q782
SD33V
SD_CD
VDD
CD1

B KEYBOARD UNIT

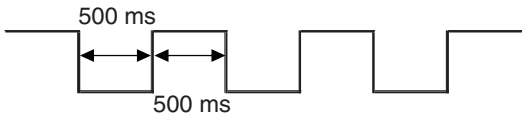


5. DIAGNOSIS

5.1 OPERATIONAL FLOWCHART



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



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.

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

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

Code	Classification	Error code to be displayed	Details and possible causes
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.

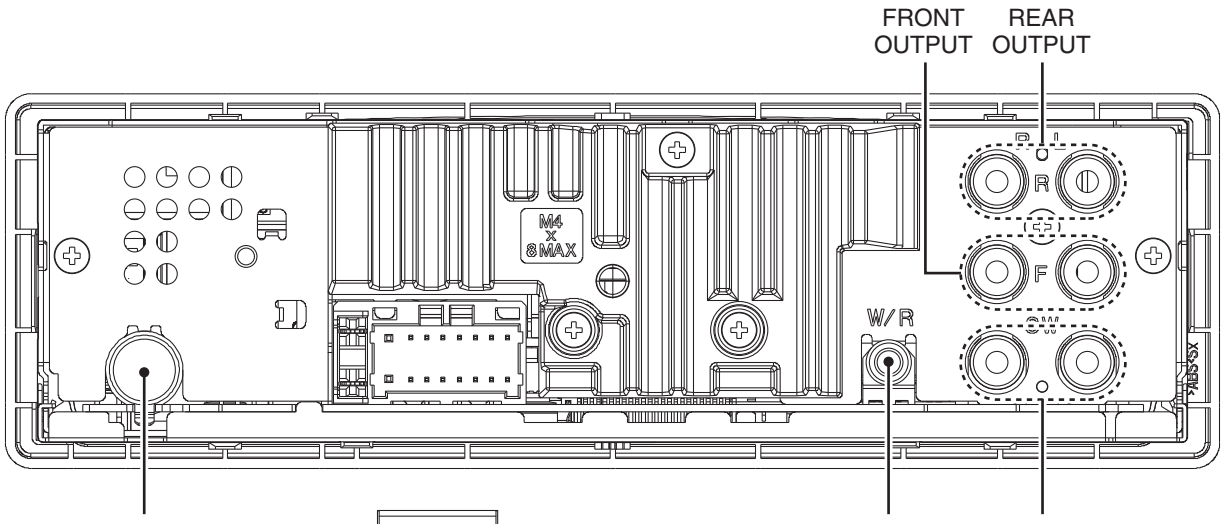
NOTES

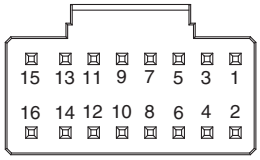
- Indications of error codes are available only during disc operations, because CD operations are unavailable if a mechanical error is generated.
- If the TOC cannot be read, this is not processed as an error, and operation continues accordingly.
- If you design a new head unit, be sure to use one of 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

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.
	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.

5.3 CONNECTOR FUNCTION DESCRIPTION





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

[Test item]

Test mode is started

System Version information is displayed

S $ $ $ $ # # #

$ PEG number — For PEG123A, "123A" is displayed
# System microcomputer version — For Ver.7.01, "701" is displayed

Unit number information is displayed

U % % % % % % %

% System unit number — For CWW1234, "CWW1234" is displayed

Media microcomputer Version information is displayed

M V $ $ # #

$ Major version
# Minor version

Only /UC model

Manufacture_ID information is displayed

M I D $ $ $ $ $ $ $ $

$ Manufacture ID

Display is normally updated

Usual product operation is implemented to outward appearances.

Display update is stopped

The screen gets still when entering this item.

Every segment lights up

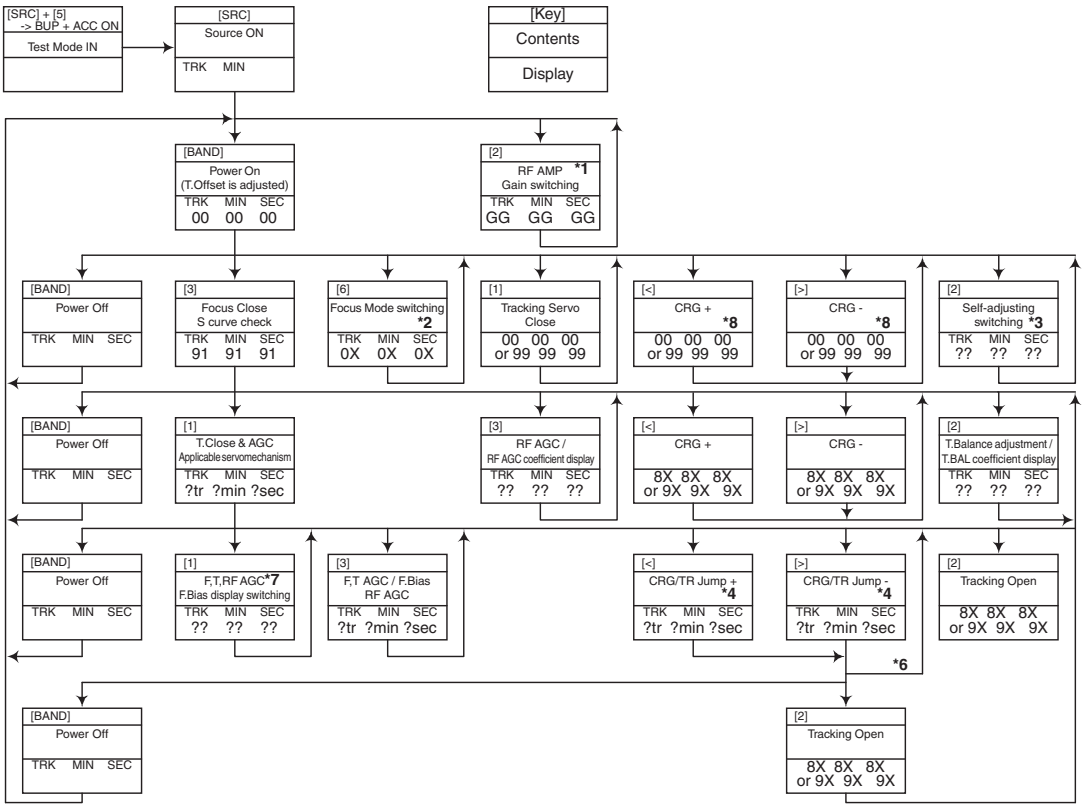
Every segment including icons lights up.

Every segment goes out

Every segment including icons goes out.

6.2 CD TEST MODE

● Flow Chart



*1) TYP (TRK MIN SEC) → + 6 dB ($^{TRK}06^{MIN}06^{SEC}06$) → + 12 dB ($^{TRK}12^{MIN}12^{SEC}12$)

*2) Focus Close ($^{TRK}00^{MIN}00^{SEC}00$ ($^{TRK}99^{MIN}99^{SEC}99$)) → S. Curve ($^{TRK}01^{MIN}01^{SEC}01$) → F EQ measurement setting ($^{TRK}02^{MIN}02^{SEC}02$)

*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) (TRK MIN SEC) → 2X ($^{TRK}22^{MIN}22^{SEC}22$) → 1X ($^{TRK}11^{MIN}11^{SEC}11$)

*10) OFF(TYP) (TRK MIN SEC) → FORCUS ($^{TRK}70^{MIN}70^{SEC}70$) → TRACKING ($^{TRK}71^{MIN}71^{SEC}71$)

[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.

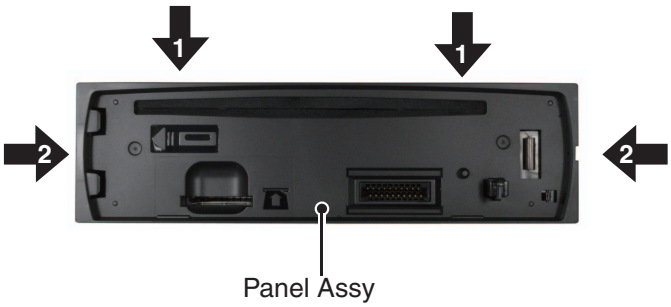


Fig.1

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

1 Remove the screw.

2 Remove the two screws.

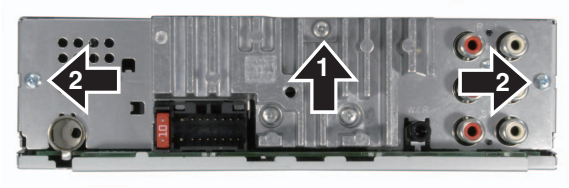


Fig.2

The CD Mechanism Module side is made a bottom.

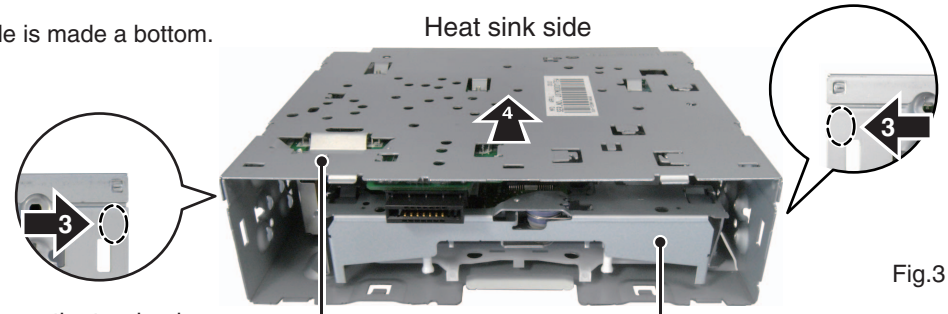


Fig.3

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

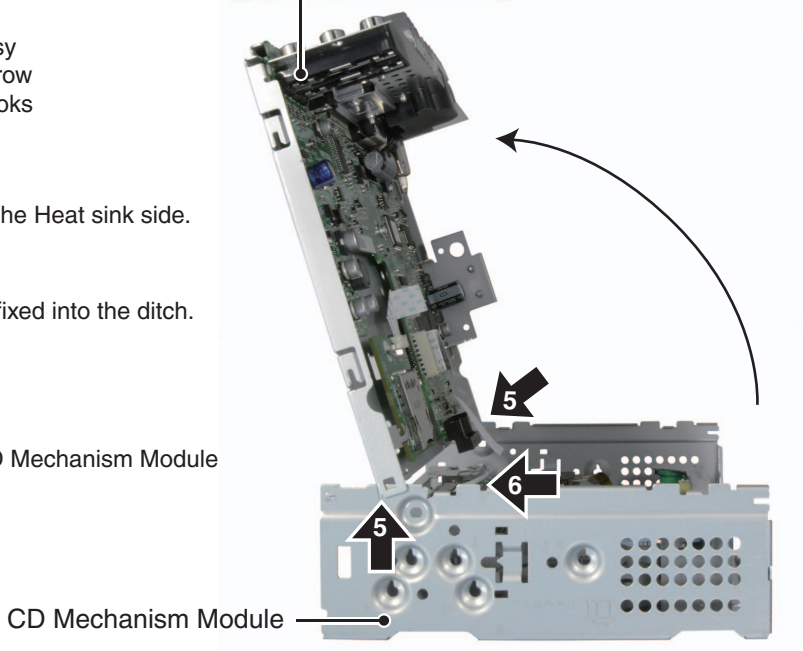


Fig.4

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

1 Disconnect the FFC.

2 Straighten the three tabs at two locations indicated and then remove the SD Unit.

3 Remove the two screws.

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

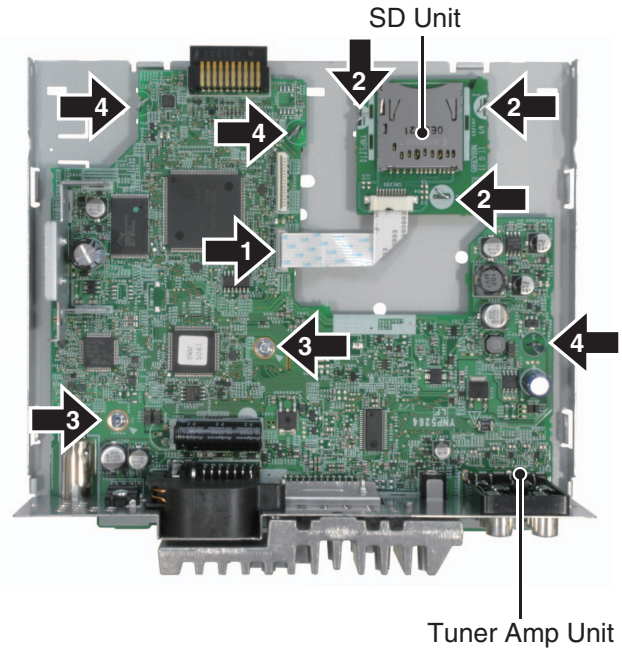


Fig.5

● Attention of removing (Fig.6)

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

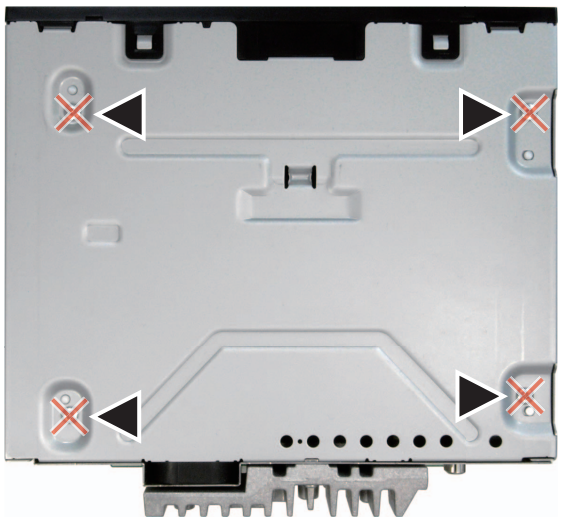


Fig.6

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

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

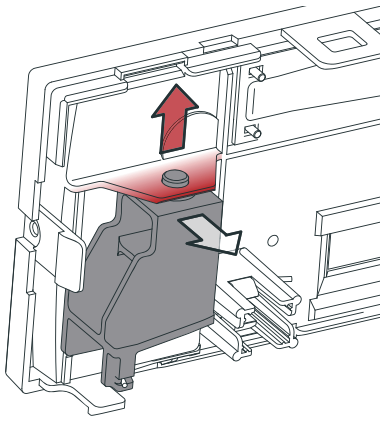


Fig.7

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

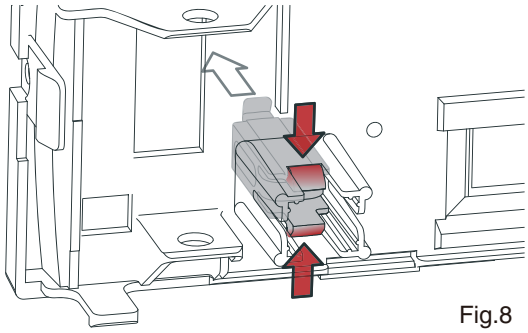


Fig.8

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

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

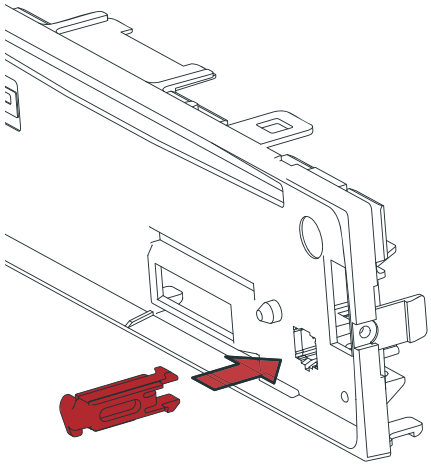


Fig.9

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

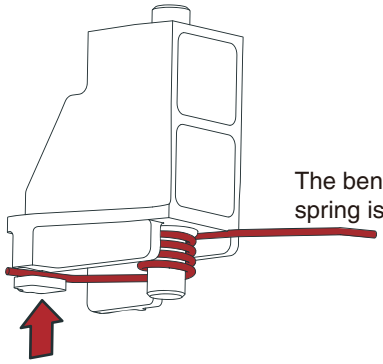


Fig.10

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

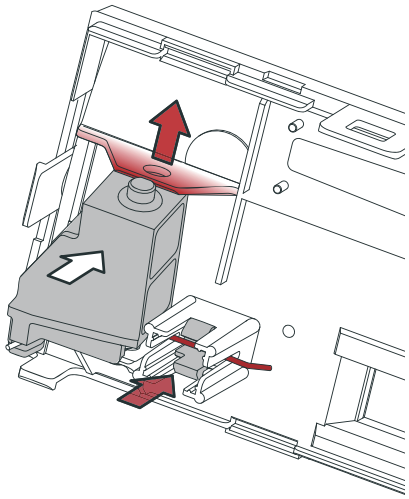
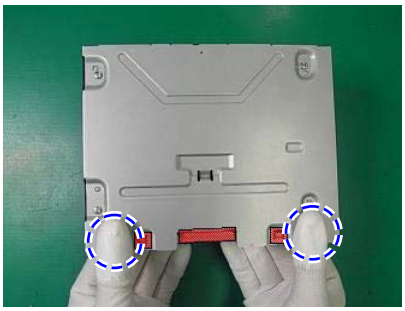


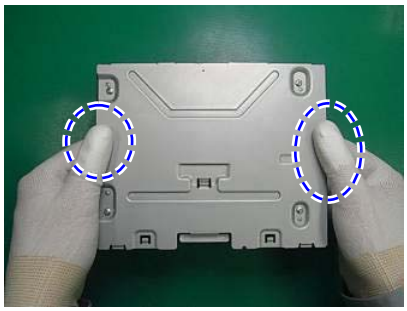
Fig.11

● How to carry the mecha unit

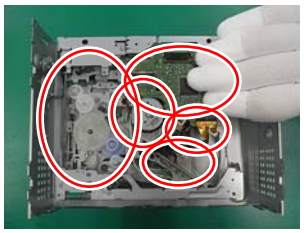
1. Hold the designated points (shown with dashed lines) of the upper chassis and the front/rear bracket.
2. Be careful not to hold the solid line portions or the CRG mecha part or insert foreign substances, to prevent distortion.
3. When holding the sides of the upper chassis, do not apply excessive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

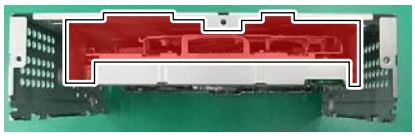
Correct way of holding the unit

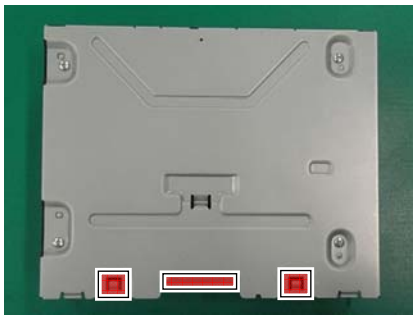


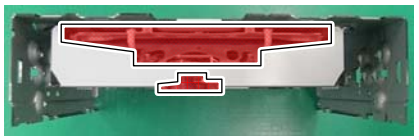


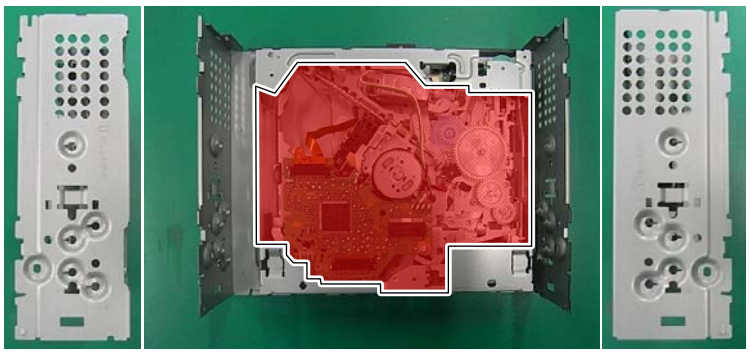
Incorrect way of holding the unit











● 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.

Fig 1

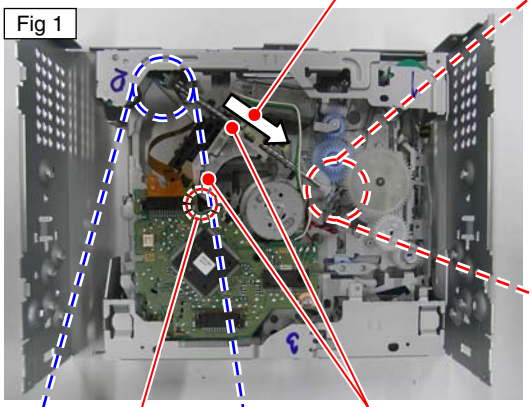


Fig 2a

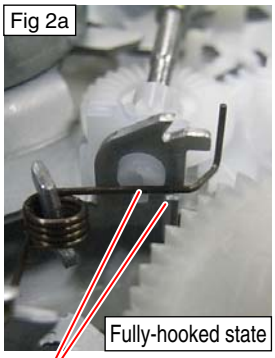


Fig 2b

The spring is below a resin flange and is built inside the sheet metal bending.

Fig 3

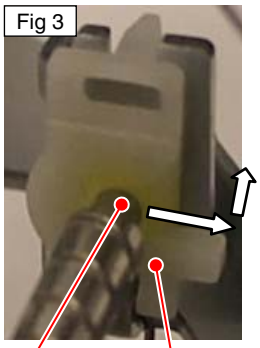
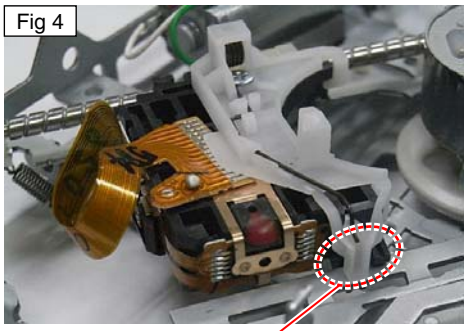


Fig 4



[Incorrect built-in state]
The chassis is not nipped between the PU case and the PU rack.

● 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 guarantied 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.

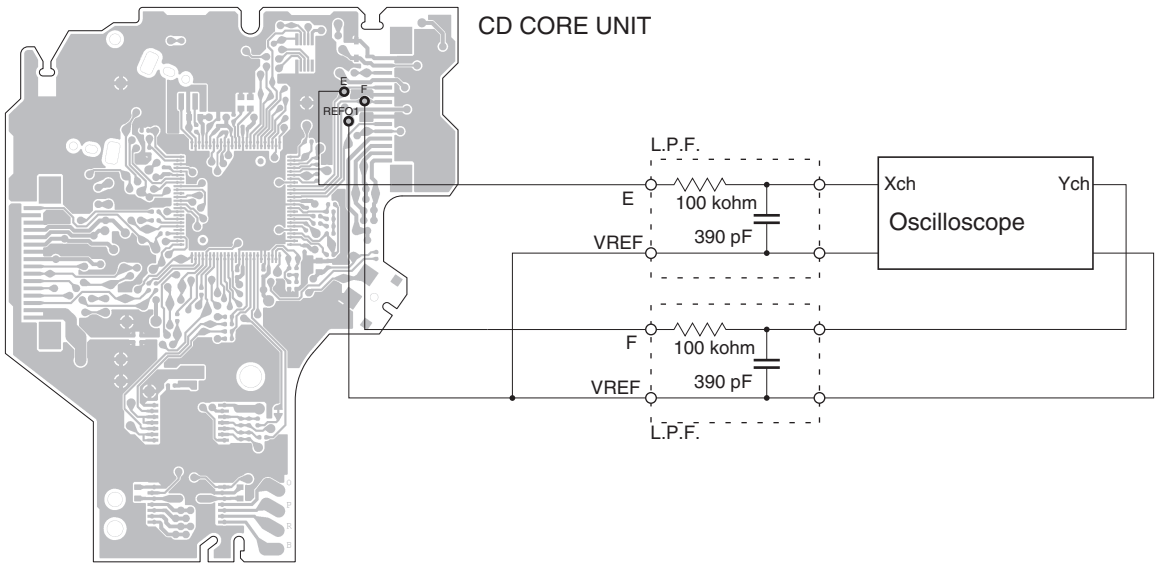
8.2 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT

- **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

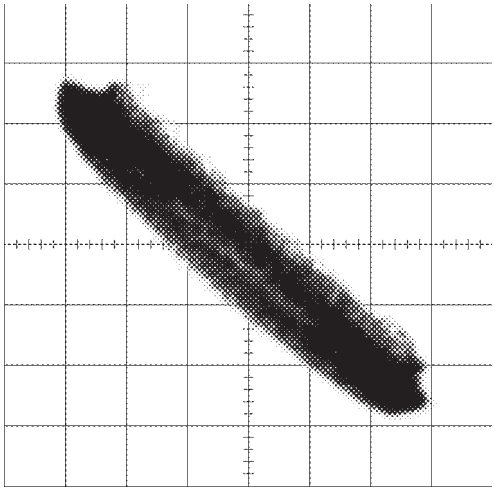


- **Checking Procedure**
  1. In test mode, load the disc and switch the 3 V regulator on.
  2. Using the right and left buttons, move the PU unit to the innermost track.
  3. Press key 3 to close focus, the display should read "91". Press key 2 to implement the tracking balance adjustment the display 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".

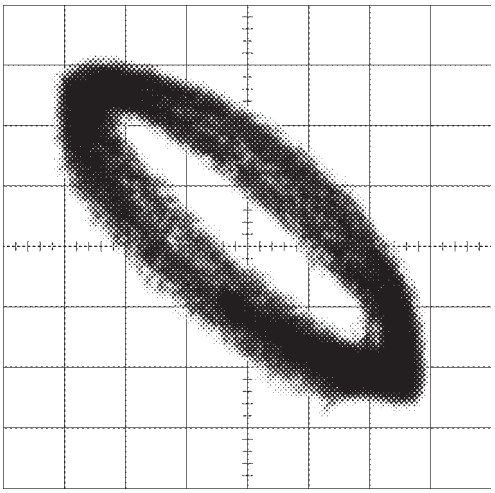
Grating waveform

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

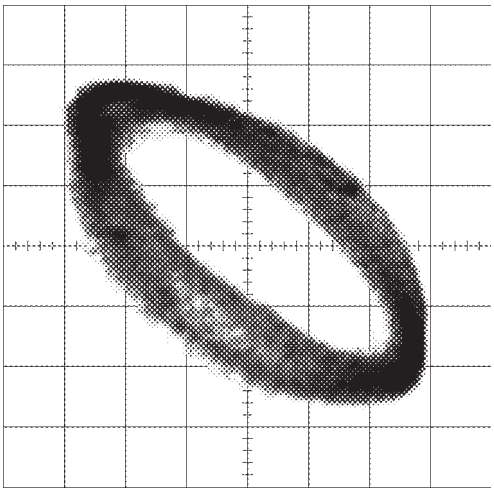
0 degrees



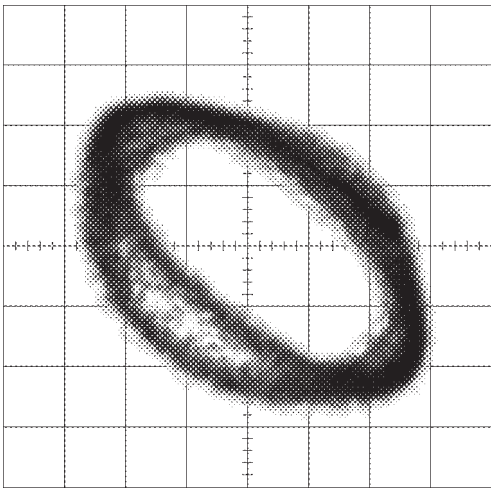
30 degrees



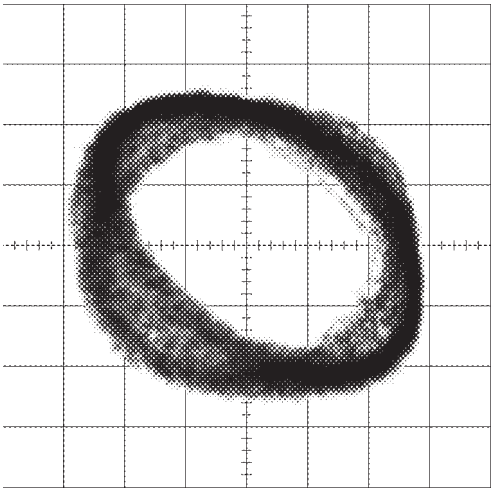
45 degrees



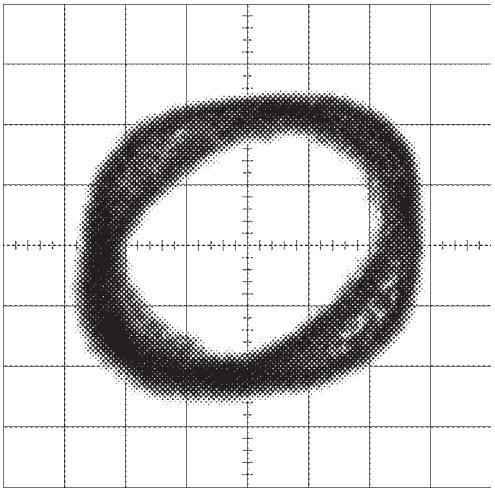
60 degrees



75 degrees



90 degrees



8.3 PCL OUTPUT CONFIRMATION

● 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.

A

B

C

D

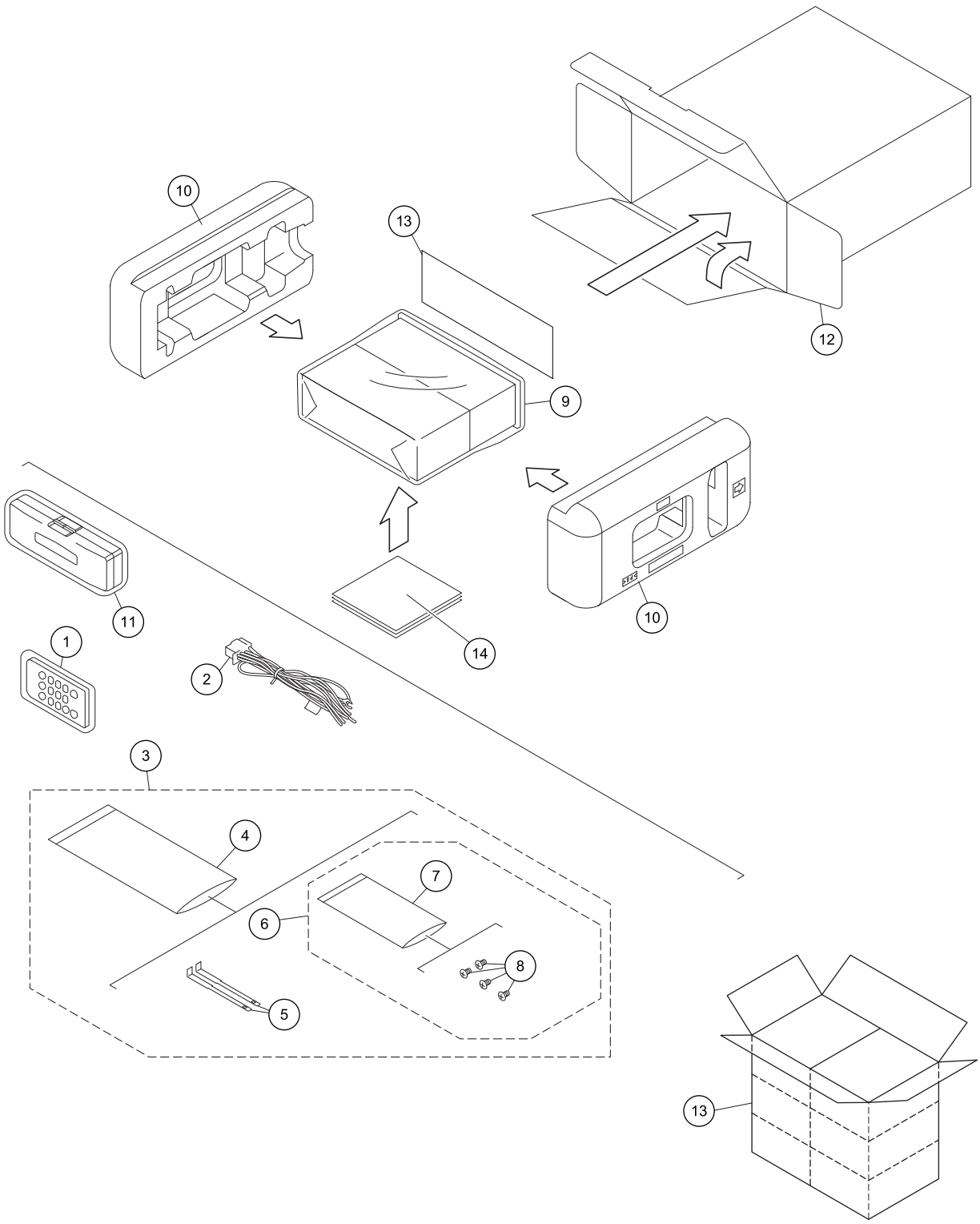
E

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



(1) PACKING SECTION PARTS LIST

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

(2) CONTRAST TABLE

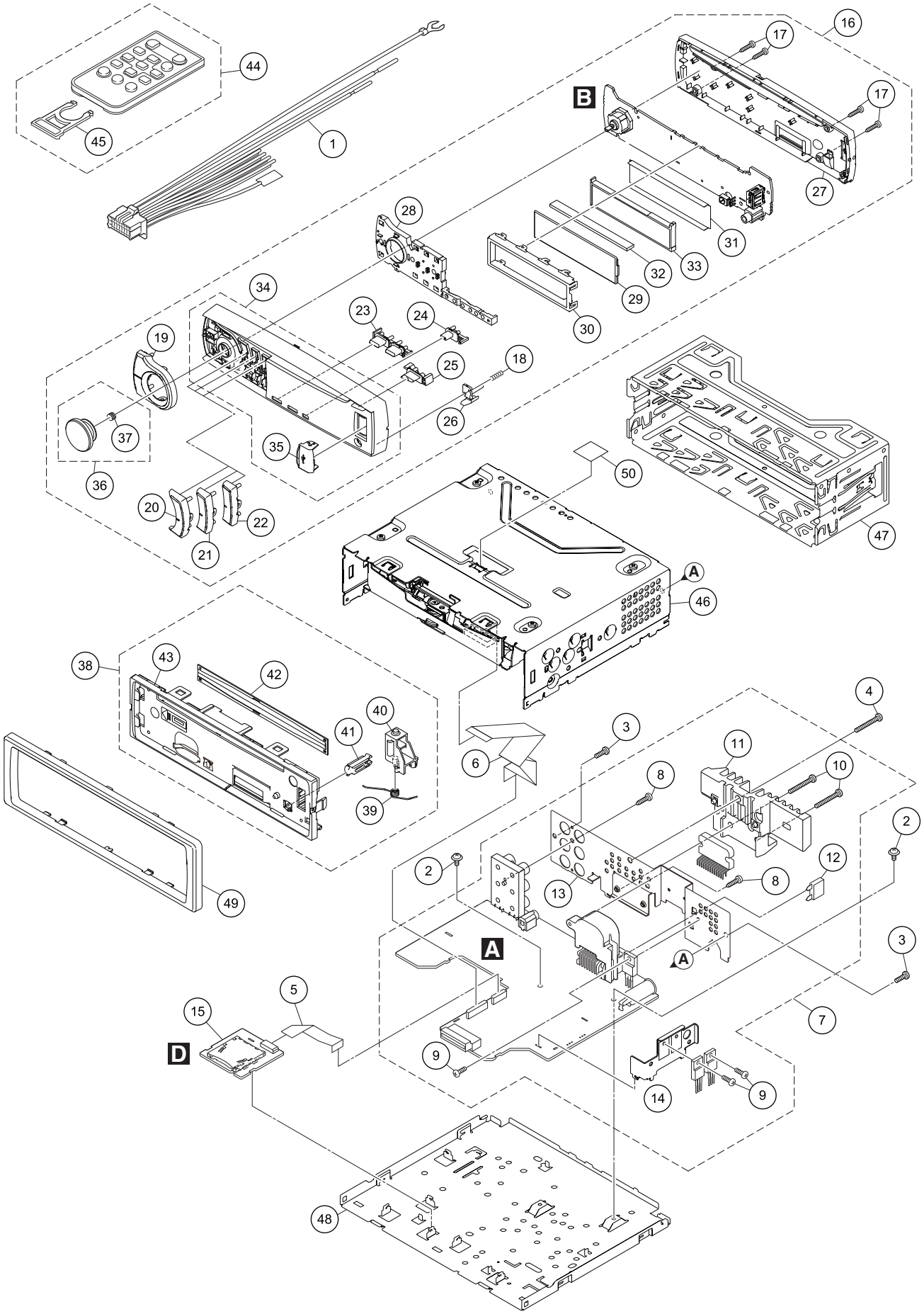
DEH-6350SD/XSES and DEH-6350SD/XSCN5 are constructed the same except for the following:

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
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11
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48

(1) EXTERIOR SECTION PARTS LIST

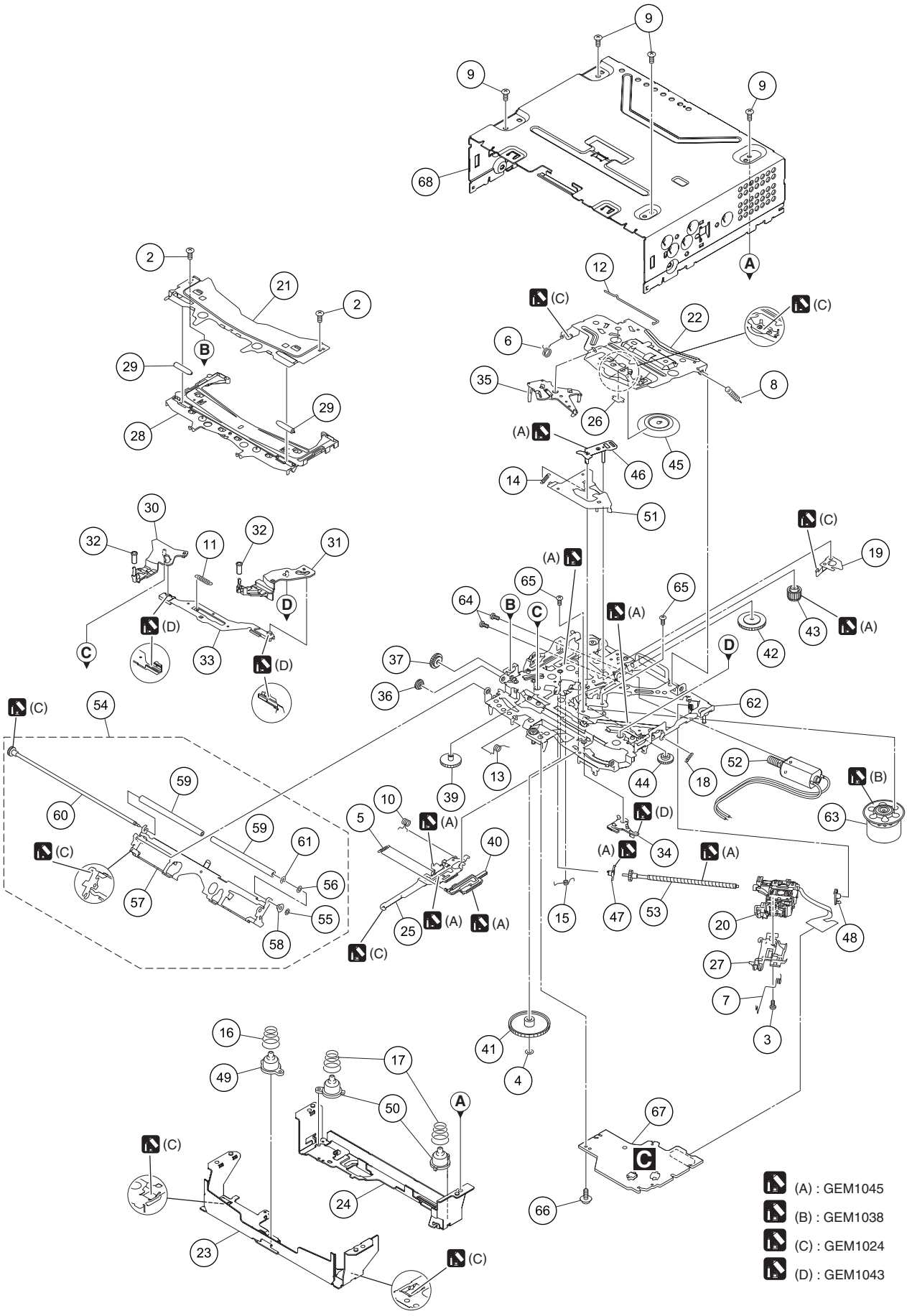
Mark	No.	Description	Part No.
	1	Cord Assy	QDP3013
	2	Screw	ASZ26P050FTC
	3	Screw	BSZ26P060FTC
	4	Screw	BSZ26P120FTC
	5	Cable	CDE9107
	6	Cable	CDE9337
	7	Tuner Amp Unit	See Contrast table (2)
	8	Screw	BPZ26P080FTC
	9	Screw	BSZ26P060FTC
	10	Screw	BSZ26P120FTC
	11	Heat Sink	QNR3002
⚠	12	Fuse(10 A)	YEK5001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



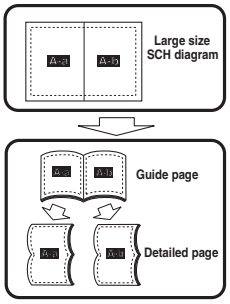
CD MECHANISM MODULE SECTION PARTS LIST

Mark No.	Description	Part No.
1	.....	
2	Screw	BSZ20P040FTC
3	Screw(M2 x 4)	CBA1835
4	Washer	CBF1038
5	Spring	CBH3010
6	Spring	CBH2855
7	Spring	CBH2856
8	Spring	CBH2860
9	Screw	BSZ26P060FTC
10	Spring	CBH3011
11	Spring	CBH3012
12	Spring	CBH3014
13	Spring	CBH3015
14	Spring	CBH3016
15	Spring	CBH3017
16	Spring	CBH3086
17	Spring	CBH3019
18	.....	
19	Spring	CBL1822
20	Pickup Unit(P10.5)(Service)	CXX1942
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
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	.....	
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
50	Damper	CNW1198
51	Arm	CNW1726
52	Motor Unit(M2)(LOAD/CRG)	CXC4026
53	Screw Unit	CXC8894
54	Arm Assy	CXE3849
55	Washer	CBF1037
56	Washer	CBF1038
57	Arm	CND5886
58	Collar	CNV6906
59	Roller	CNW1196
60	Gear Unit	CXC8893
61	Washer	YE15FTC
62	Chassis Unit	CXE3818
63	Motor Unit(M1)(SPDL)	CXE2273
64	Screw	JFZ20P025FTC
65	Screw	JGZ17P022FTC
66	Screw	EBA1028
67	CD Core Unit (S11.1STD-DOUT)	CWX3985
68	Chassis	CNA3181

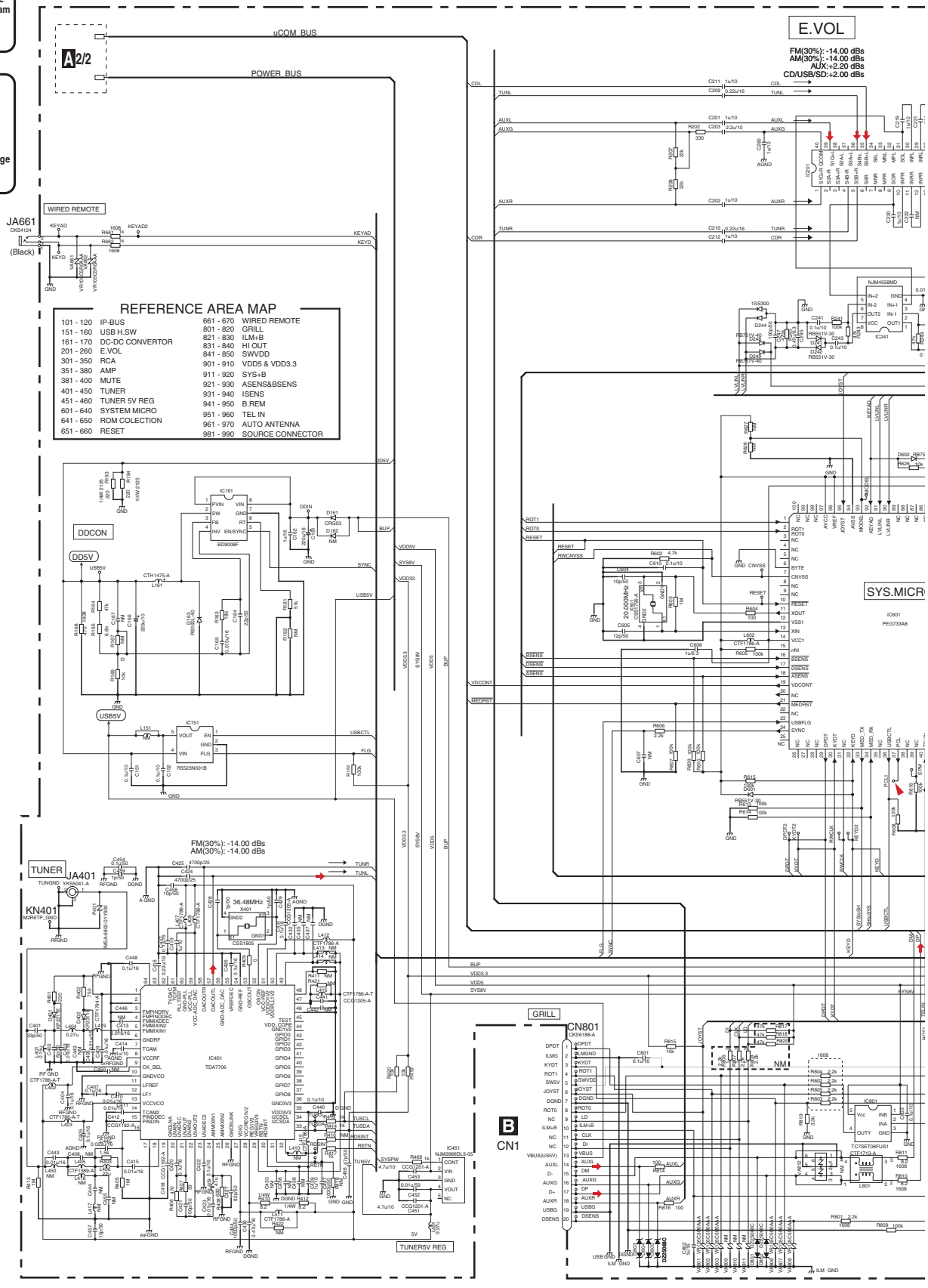
10. SCHEMATIC DIAGRAM

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

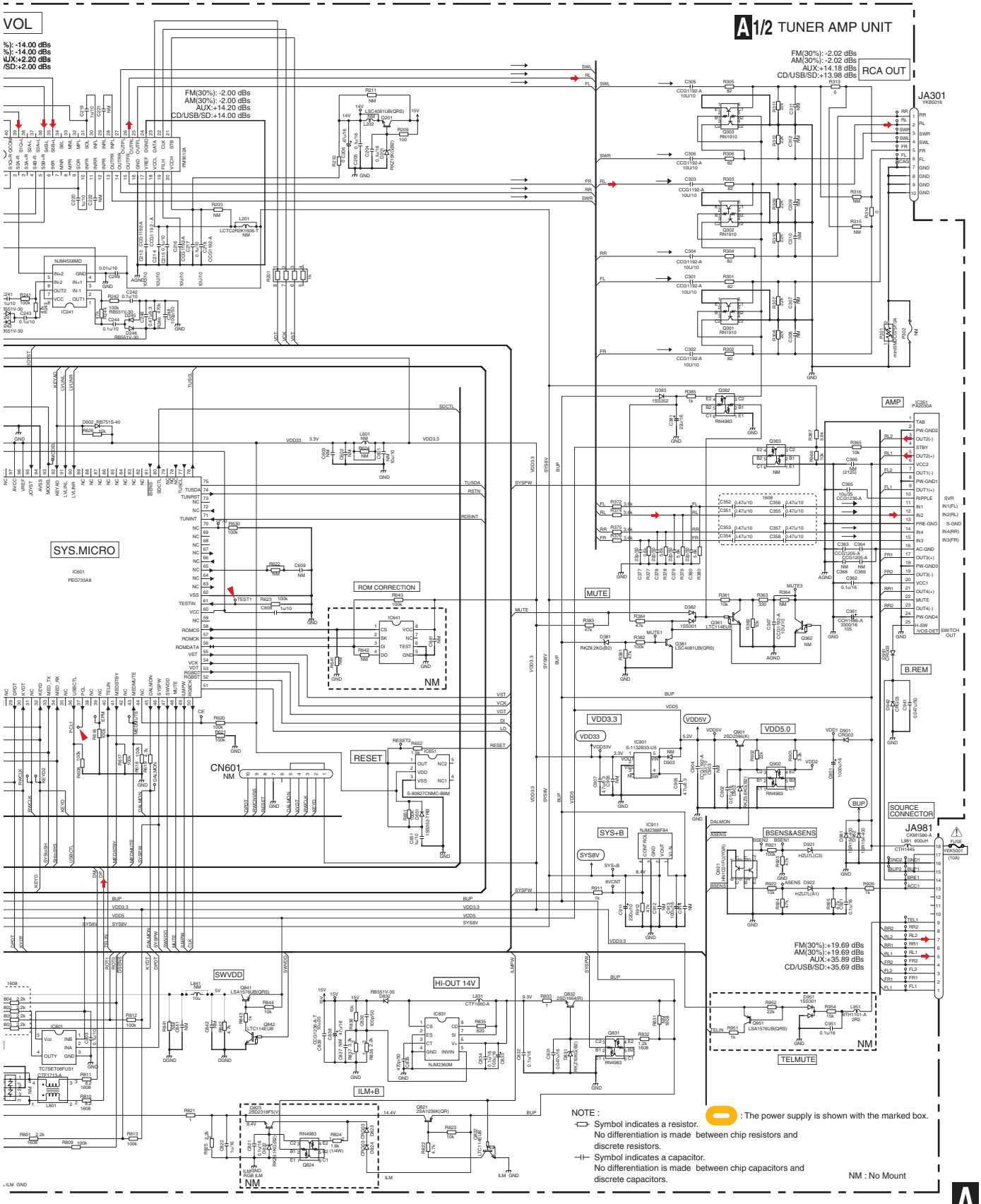
Note: When ordering service parts, be sure to refer to " EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".

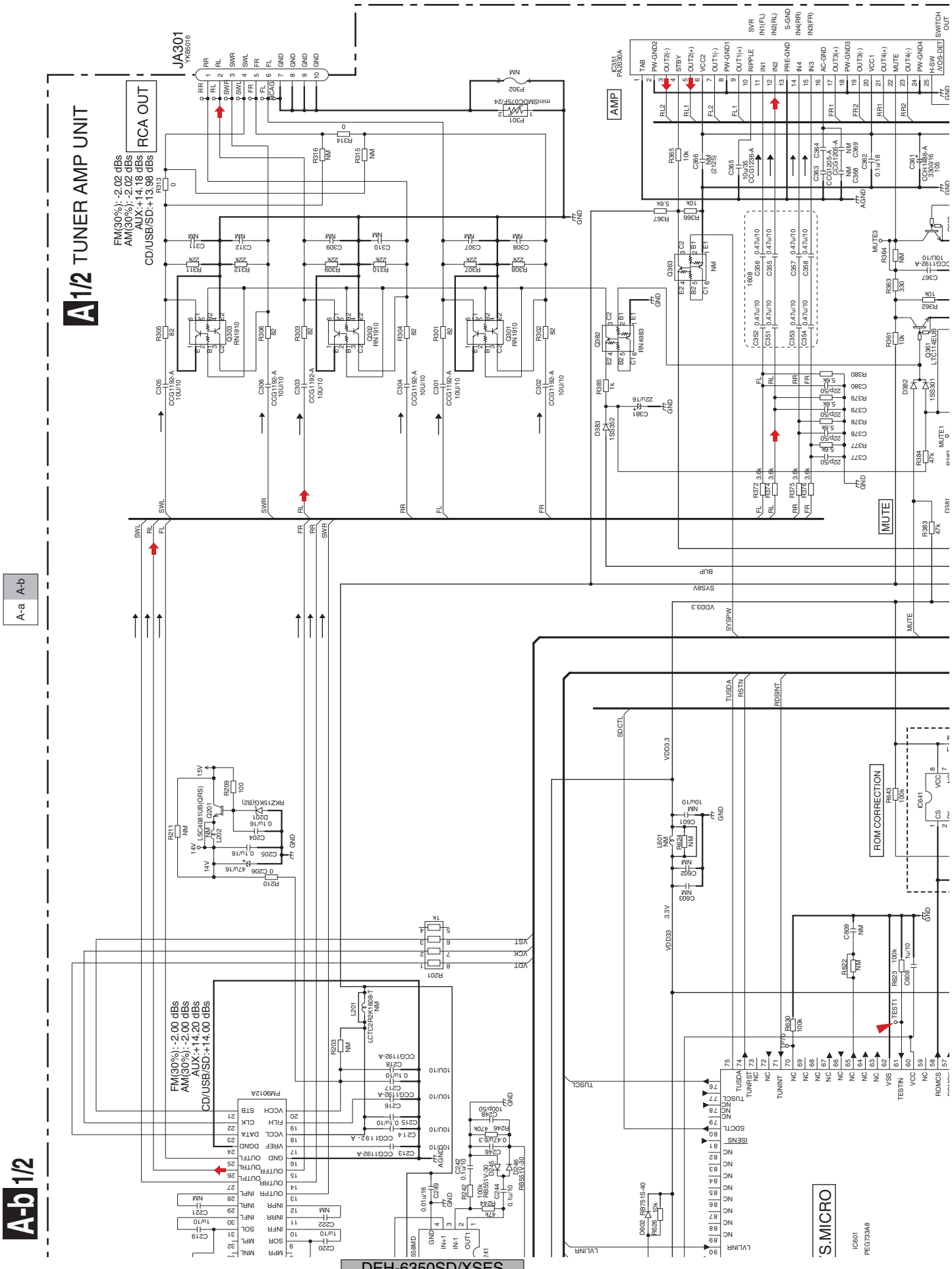


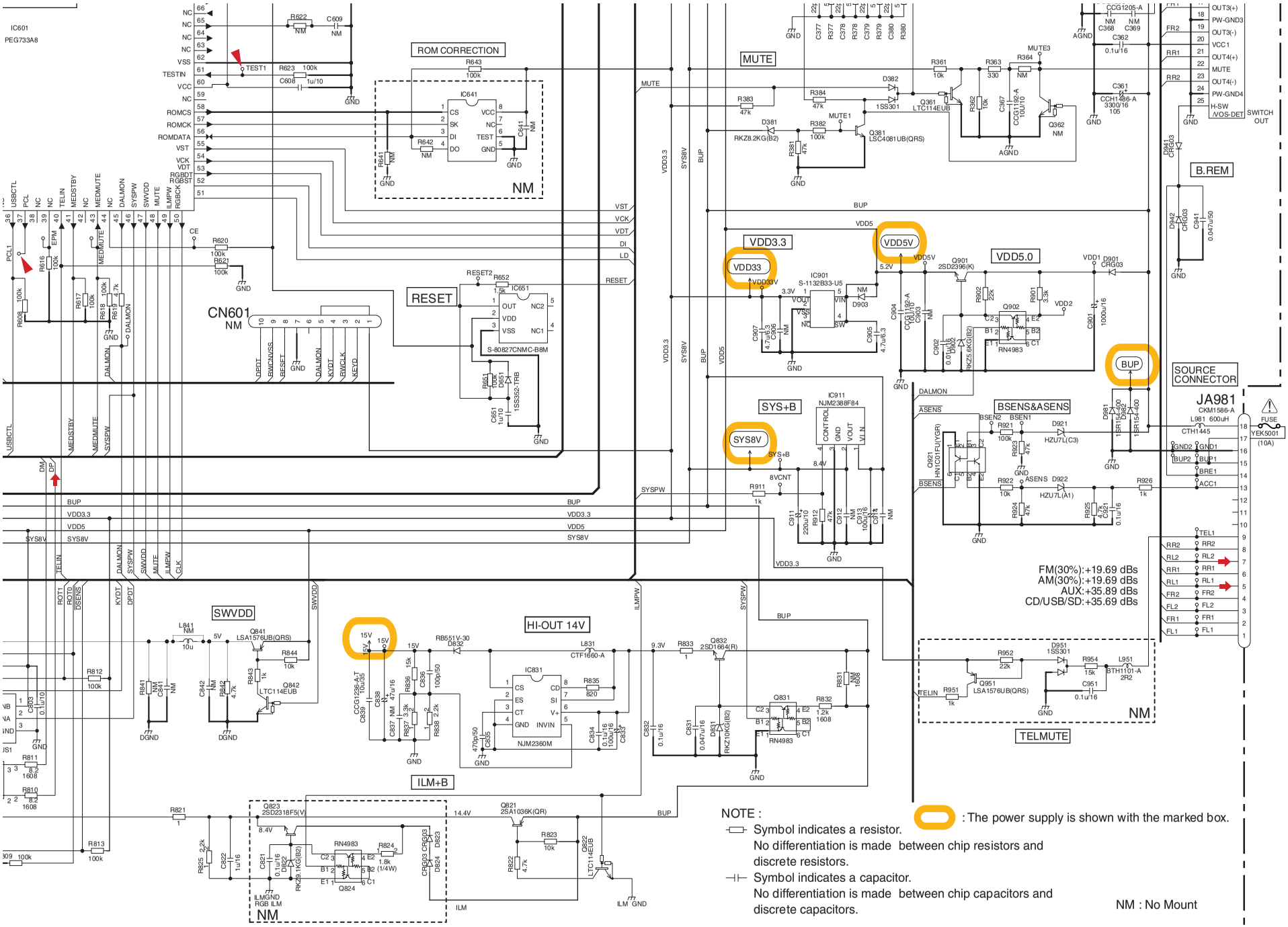
A-a 1/2

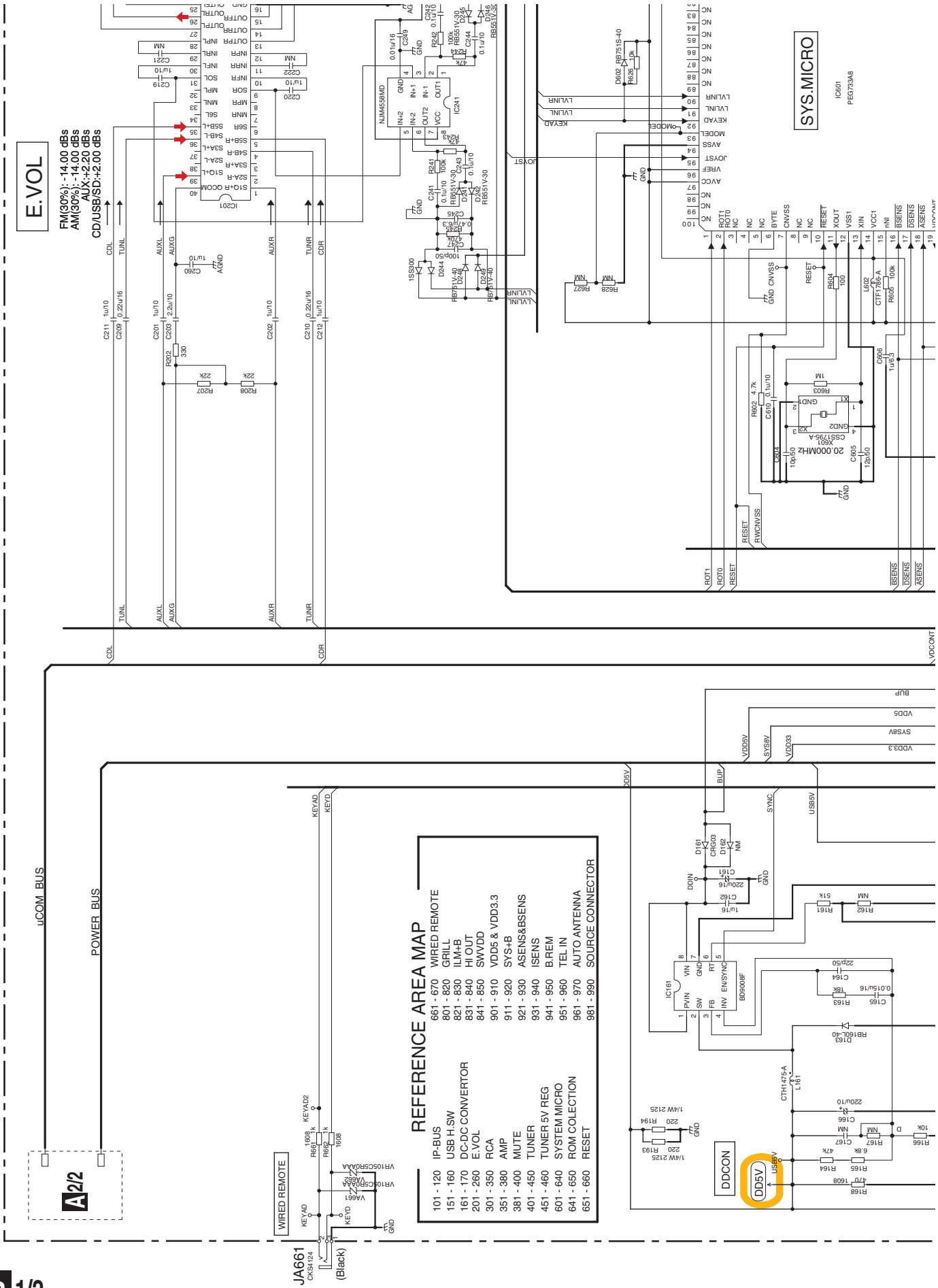


A1/2

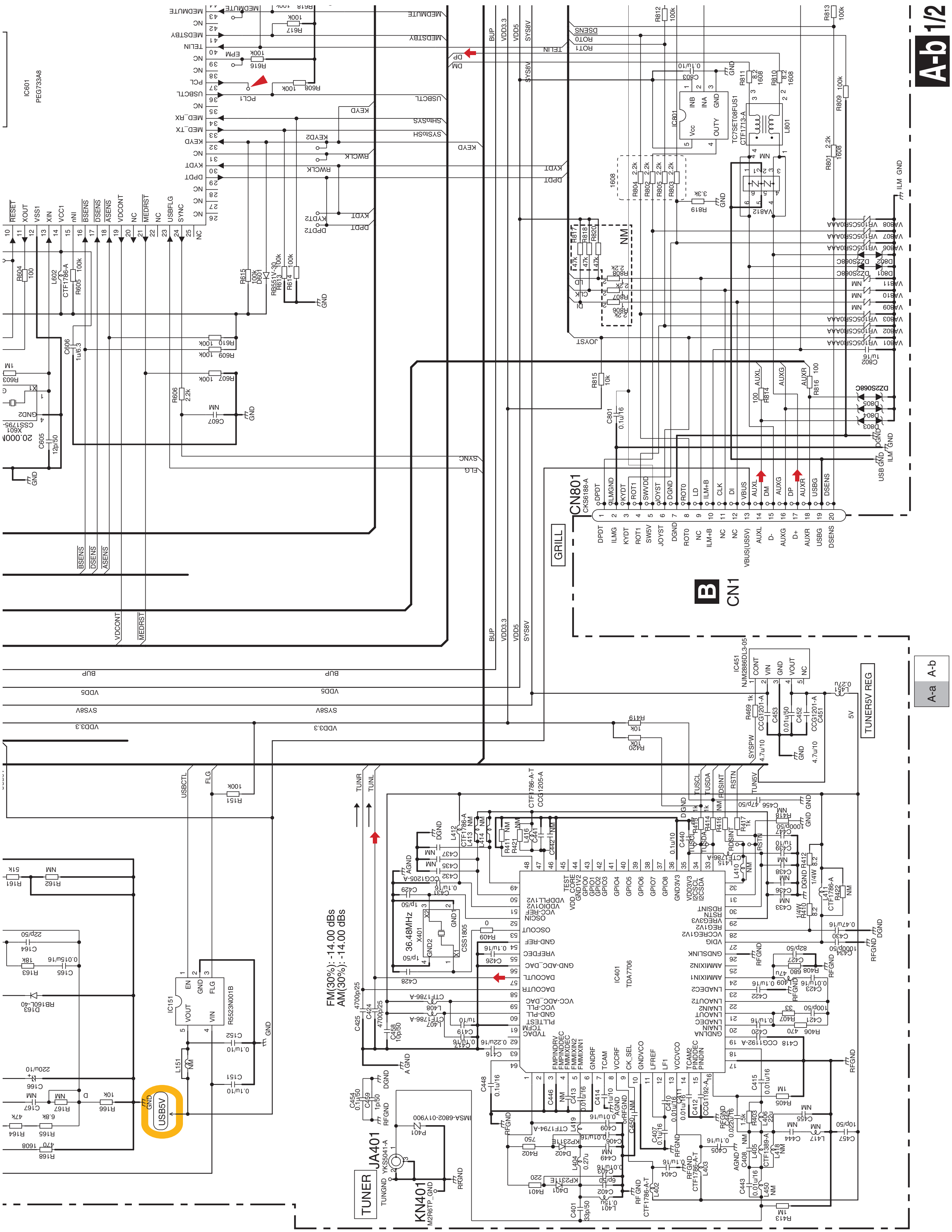

VOL
A1/2 TUNER AMP UNIT
FM(30%): -2.00 dBs
AM(30%): -2.00 dBs
AUX:+14.20 dBs
CD/USB/SD:+14.00 dBs
RCA OUT
JA301
FM(30%):-2.02 dBs
AM(30%):-2.02 dBs
AUX:+14.18 dBs
CD/USB/SD:+13.98 dBs
SYS.MICRO
IC601
PEG733A8
ROM CORRECTION
RESET
CN601
NM
AMP
IC351
PA2030A
MUTE
B.REM
SOURCE CONNECTOR
JA981
CXM1586-A
SWVDD
HI-OUT 14V
ILM+B
SYS+B
BSENS&ASENS
TELMUTE
FM(30%):+19.69 dBs
AM(30%):+35.89 dBs
AUX:+35.89 dBs
CD/USB/SD:+35.69 dBs
NOTE :
Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.
: The power supply is shown with the marked box.
NM : No Mount
A1/2


A 1/2 TUNER AMP UNIT
A-b 1/2
JA301
YKB5016
RCA OUT
FM(30%): -2.02 dBs
AM(30%): -2.02 dBs
AUX:+14.18 dBs
CD/USB/SD:+13.98 dBs
AMP
MUTE
ROM CORRECTION
S.MICRO
IC601
PEG730A8
FM(30%): -2.00 dBs
AM(30%): -2.00 dBs
AUX:+14.20 dBs
CD/USB/SD:+14.00 dBs
A-a
A-b


DEH-6350SD/XSES
ROM CORRECTION
MUTE
RESET
VDD3.3
VDD5V
VDD5.0
B.REM
BUP
SOURCE CONNECTOR
JA981
BSENS&ASENS
SYS+B
SWVDD
HI-OUT 14V
ILM+B
TELMUTE
NM
FM(30%):+19.69 dBs
AM(30%):+19.69 dBs
AUX:+35.89 dBs
CD/USB/SD:+35.69 dBs
NOTE :
: The power supply is shown with the marked box.
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
A-b 1/2
A-a
A-b


A-b 1/2
E.VOL
FM(30%): -14.00 dBs
AM(30%): -14.00 dBs
AUX:+2.20 dBs
CD/USB/SD:+2.00 dBs
SYS.MICRO
IC601
PEG733A8
uCOM BUS
POWER BUS
A2/2
WIRED REMOTE
JA661
(Black)
DDCON
DD5V
REFERENCE AREA MAP
101 - 120 IP-BUS
151 - 160 USB H.SW
161 - 170 DC-DC CONVERTOR
201 - 260 E.VOL
301 - 350 RCA
351 - 380 AMP
381 - 400 MUTE
401 - 450 TUNER
451 - 460 TUNER 5V REG
601 - 640 SYSTEM MICRO
641 - 650 ROM COLECTION
651 - 660 RESET
661 - 670 WIRED REMOTE
801 - 820 GRILL
821 - 830 ILM+B
831 - 840 HI OUT
841 - 850 SWVDD
901 - 910 VDD5 & VDD3.3
911 - 920 SYS+B
921 - 930 ASENS&BSENS
931 - 940 ISENS
941 - 950 B.REM
951 - 960 TEL IN
961 - 970 AUTO ANTENNA
981 - 990 SOURCE CONNECTOR
A-b
A-a
A-a 1/2

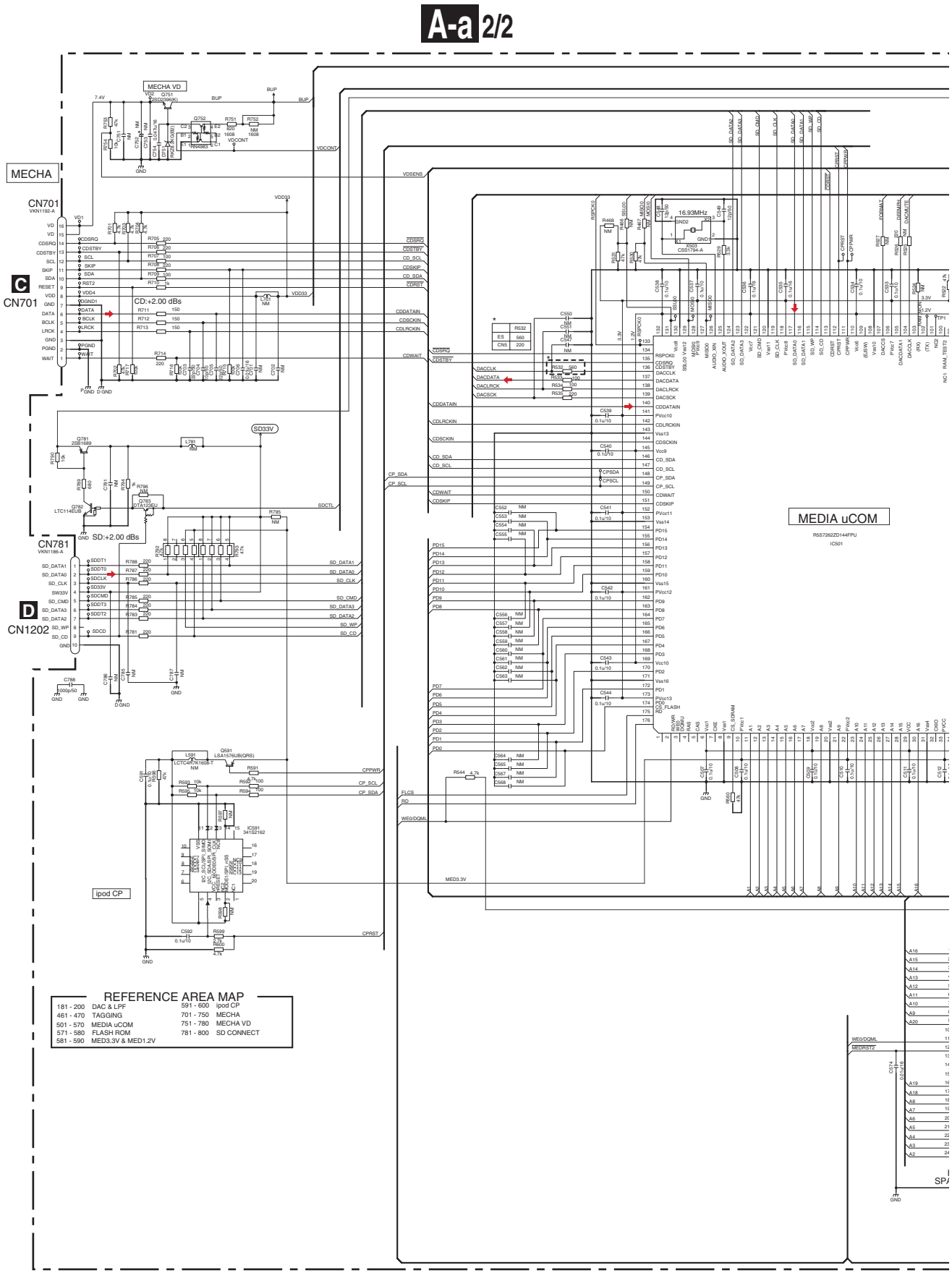
5 6 7 8

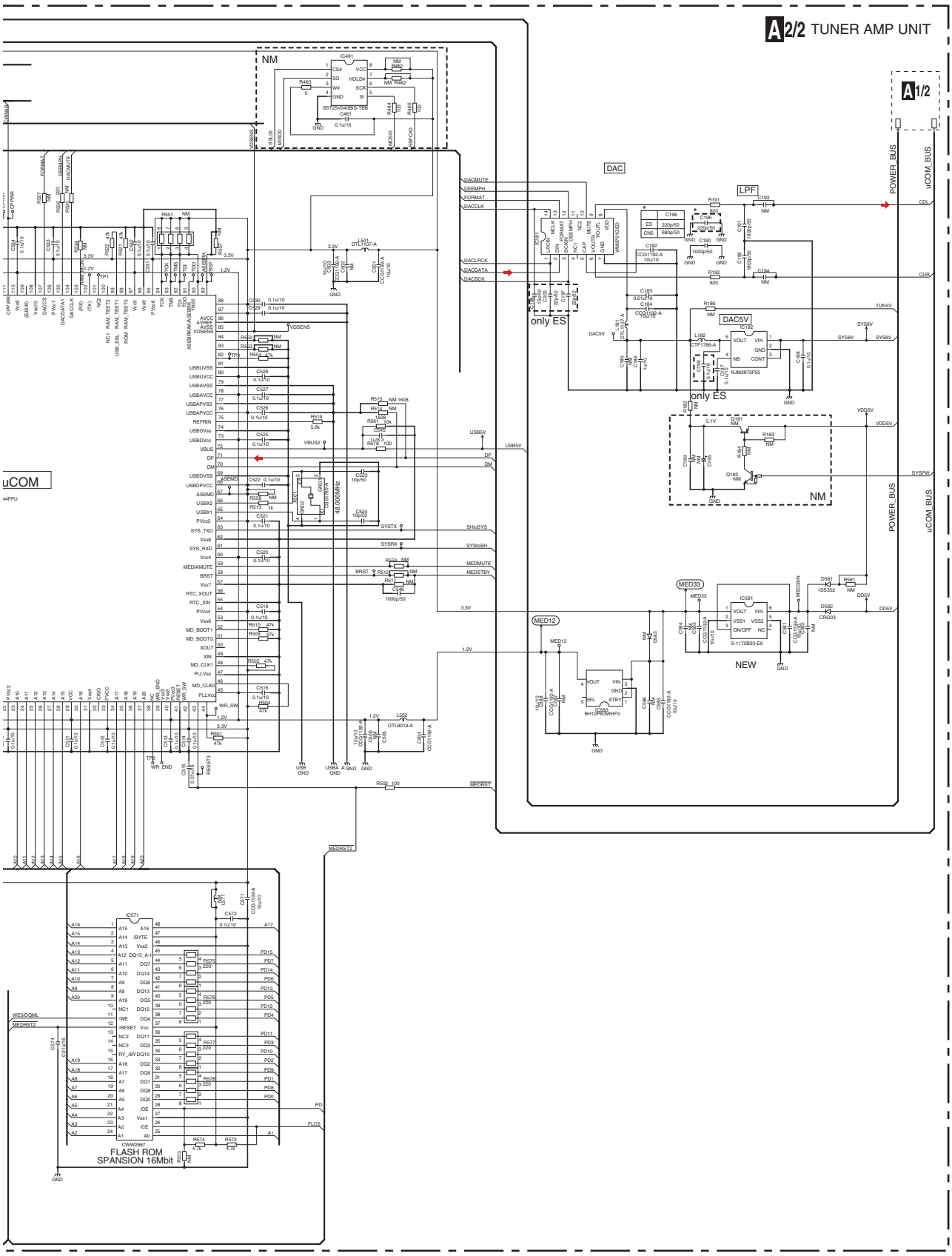


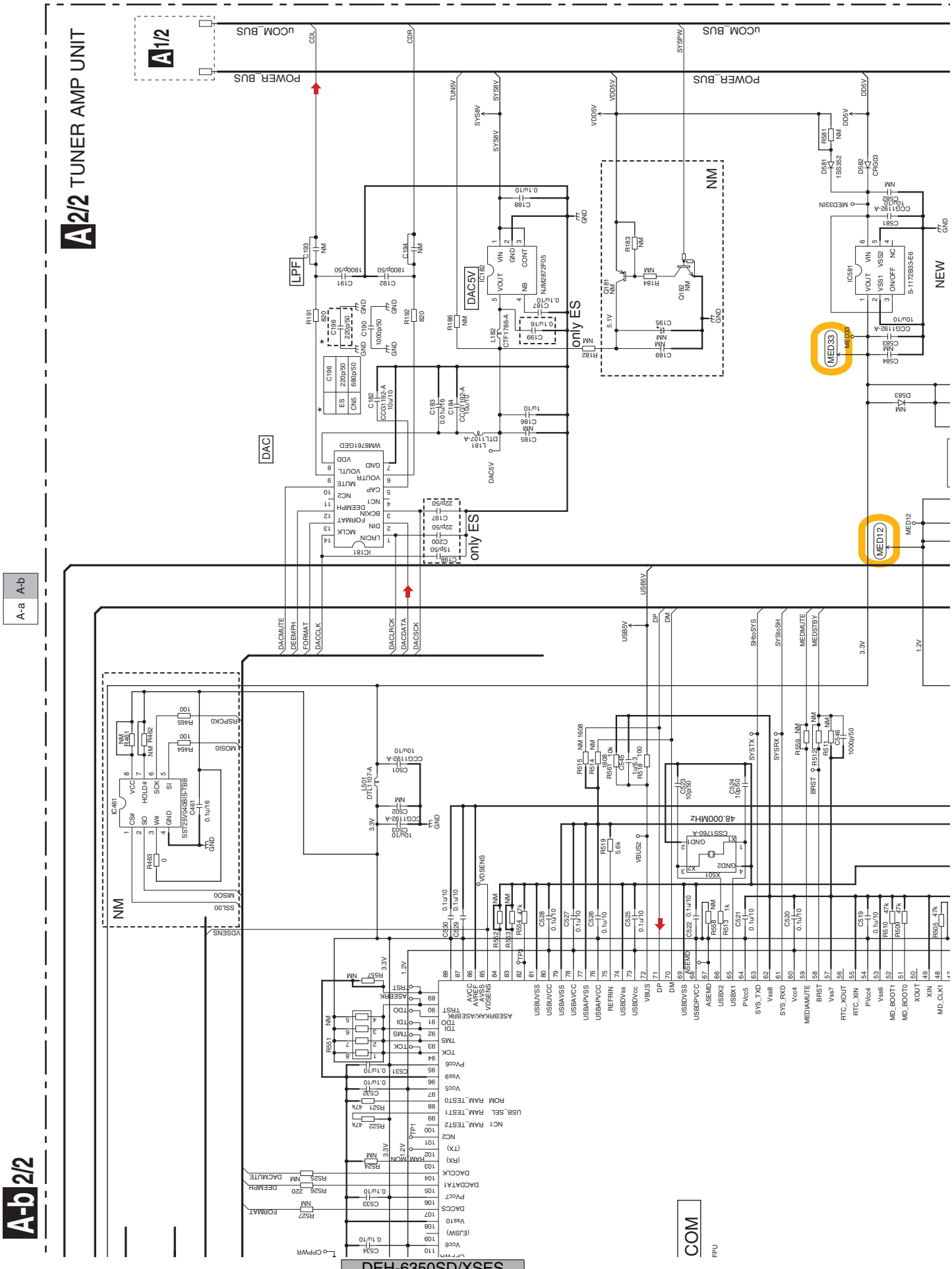
A B C D E F

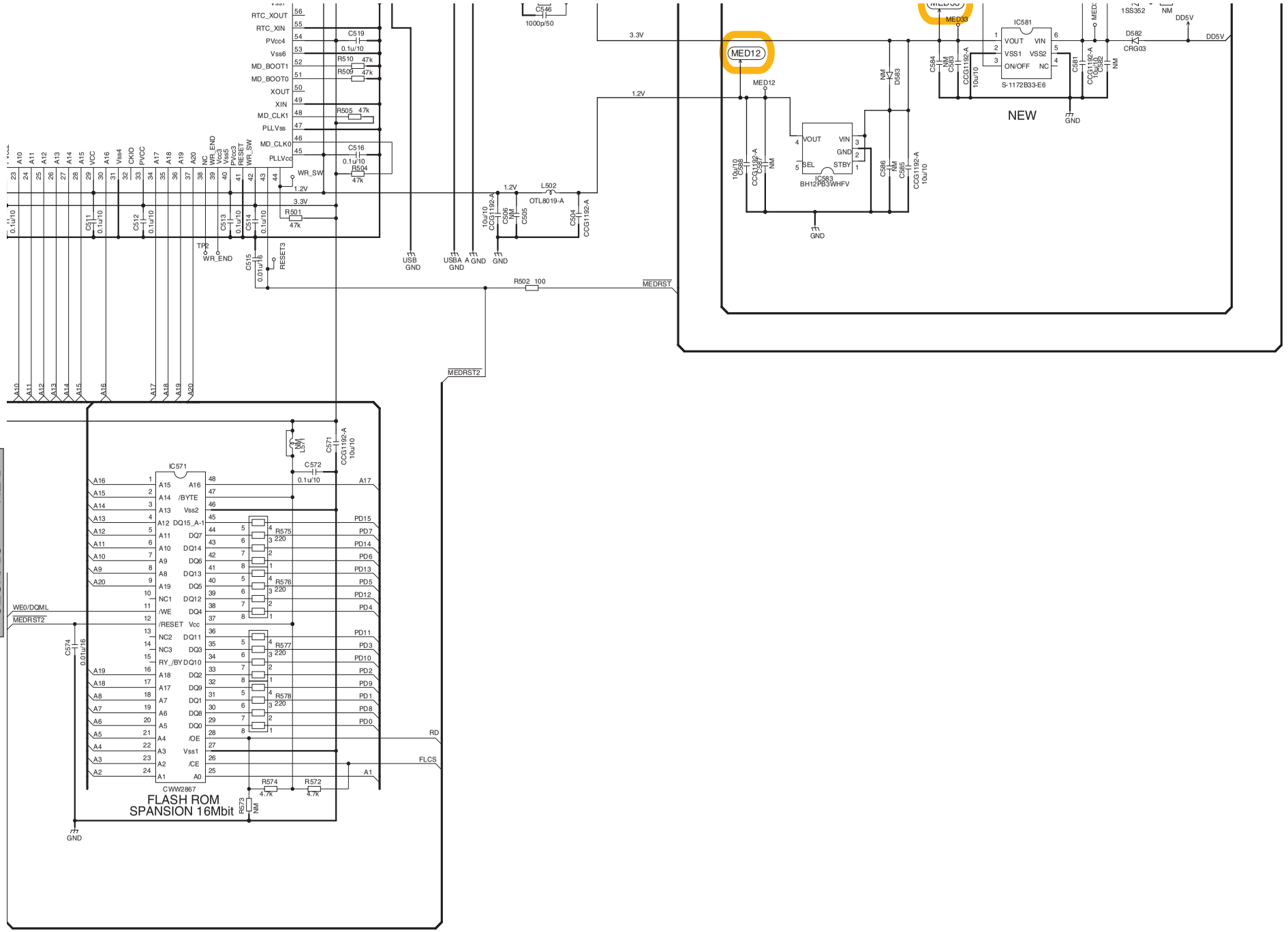
5 6 7 8

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




A2/2 TUNER AMP UNIT
A1/2
NM
DAC
LPF
POWER_BUS
uCOM_BUS
only ES
NEW
FLASH ROM
SPANSION 16Mbit
uCOM
DACMUTE
DEEMPH
FORMAT
DACCLK
DACLRCK
DACDATA
DACSCK
USBSV
SYSPW
VDDSV
TUNSV
SYS8V
DDSV
MEDRST
MEDRST2
MEDMUTE
MEDSTBY
SYSTX
SYSRX
SHtoSYS
SYStoSH
WR_END
RD
FLCS

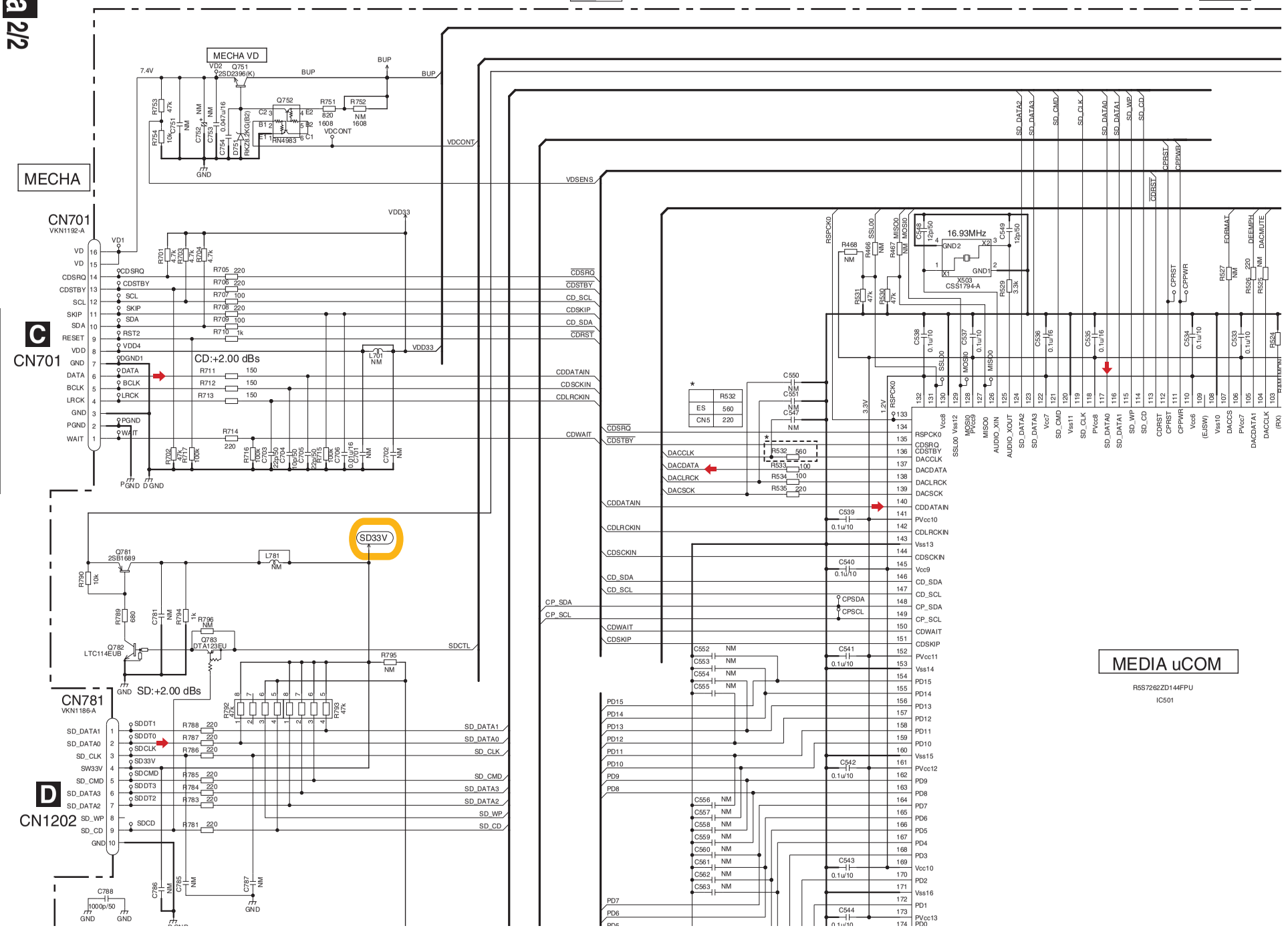

A2/2 TUNER AMP UNIT
A1/2
A-b 2/2
uCOM_BUS
POWER_BUS
LPF
DAC5V
DAC
only ES
NM
NEW
MED33
MED12
DACMUTE
DEEMPH
FORMAT
DACCLK
DACLRCK
DACDATA
DACSCK
48.000MHZ
DEH-6350SD/XSES
COM
FPU

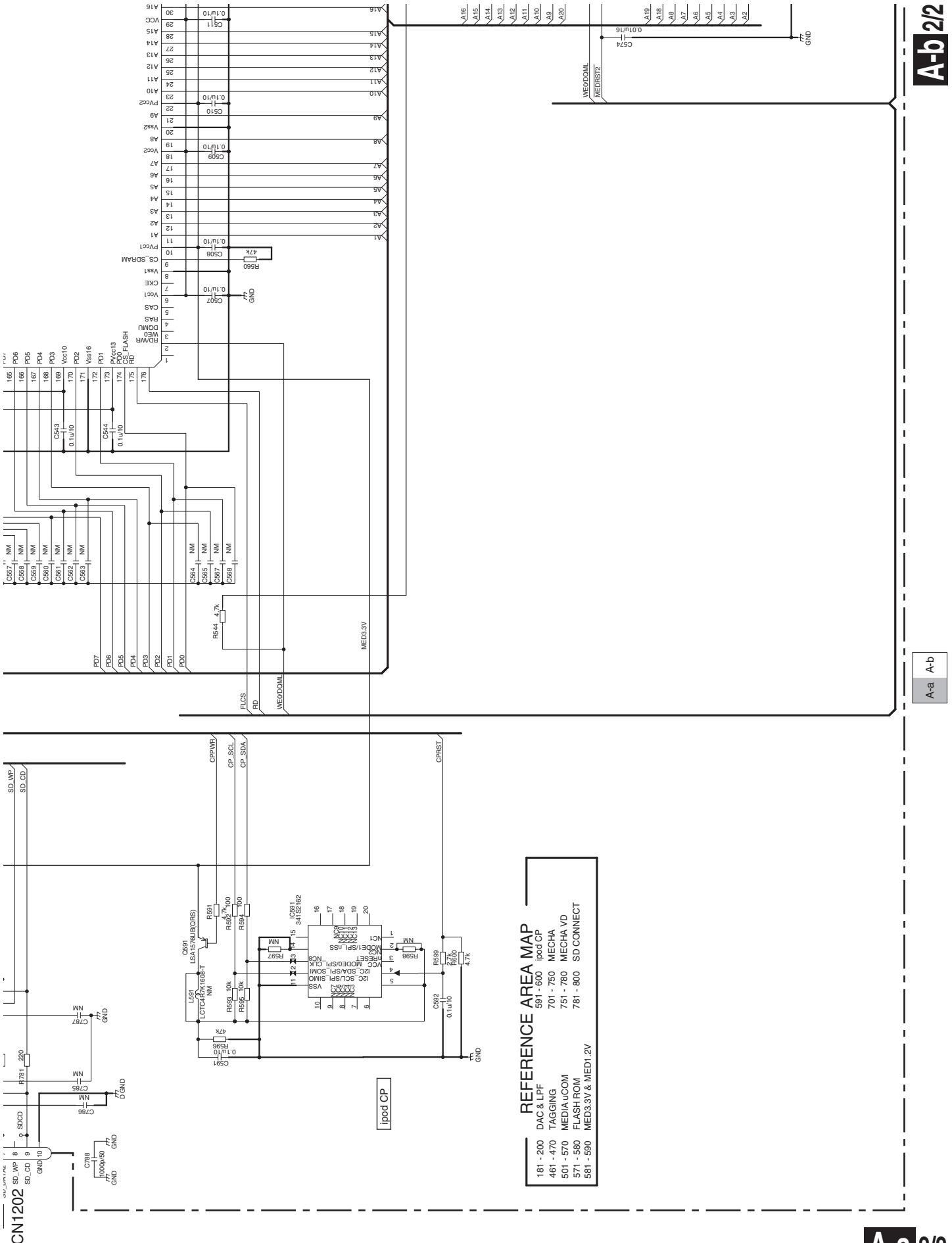


DEH-6350SD/XSES

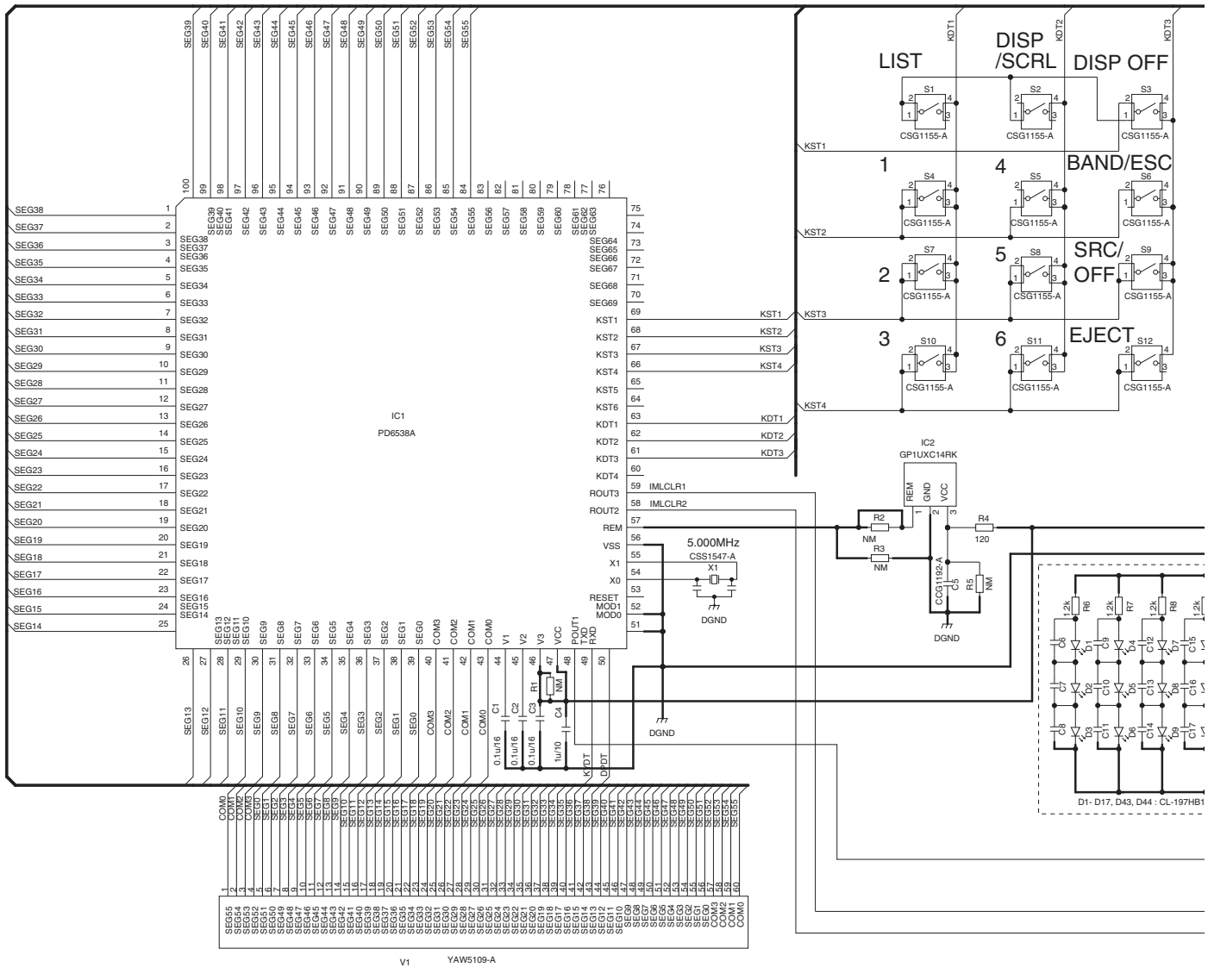
A-b 2/2

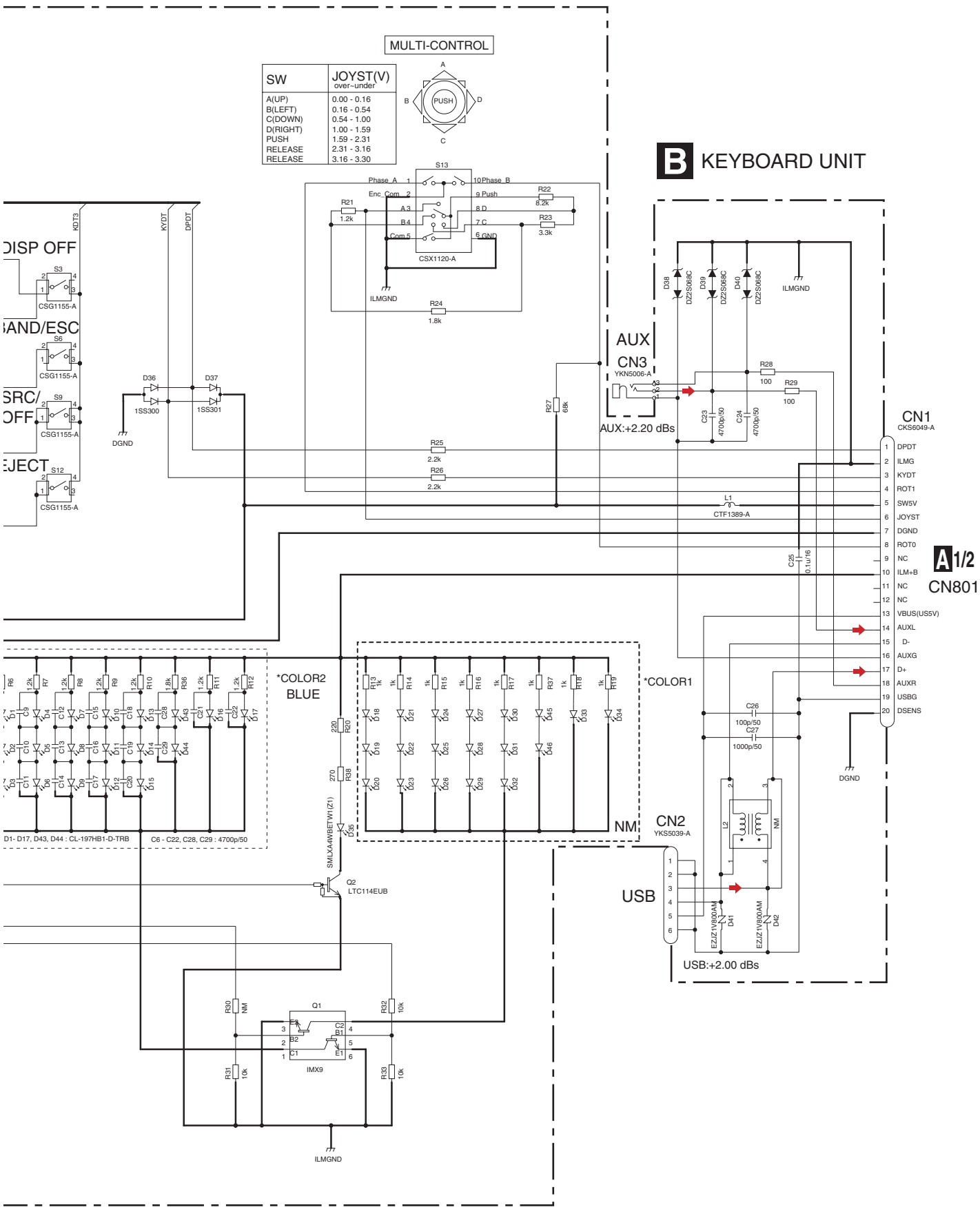
A-a A-b


MECHA
MECHA VD
CN701
VKN1192-A
CD:+2.00 dBs
CN781
VKN1186-A
SD:+2.00 dBs
CN1202
SD33V
MEDIA uCOM
R5S7262ZD144FPU
IC501
16.93MHz
X503
CSS1794-A

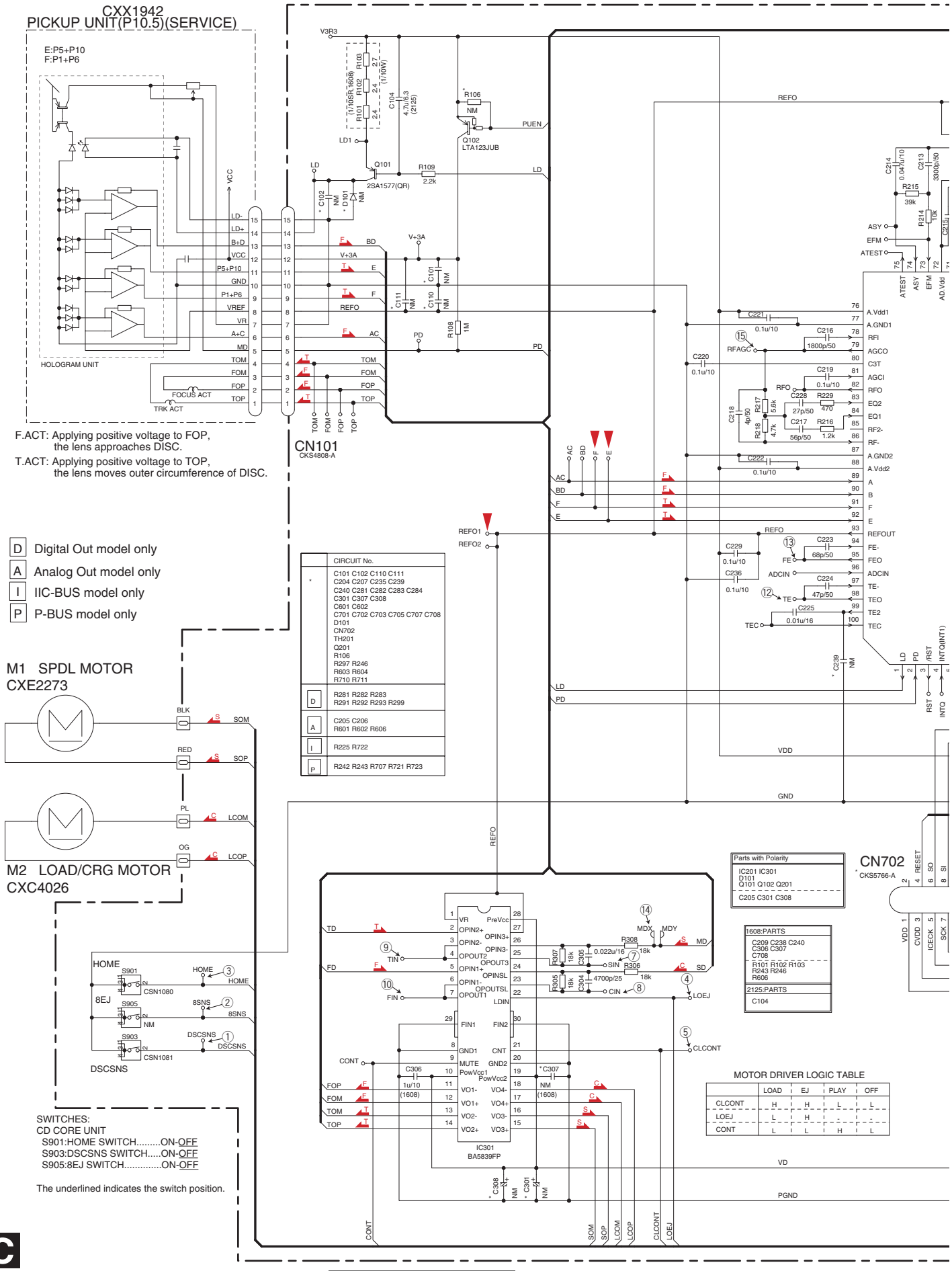

REFERENCE AREA MAP
181 - 200 DAC & LPF
461 - 470 TAGGING
501 - 570 MEDIA uCOM
571 - 580 FLASH ROM
581 - 590 MED3.3V & MED1.2V
591 - 600 ipod CP
701 - 750 MECHA
751 - 780 MECHA VD
781 - 800 SD CONNECT
ipod CP
CN1202

10.3 KEYBOARD UNIT




MULTI-CONTROL
SW
JOYST(V) over~under
A(UP) 0.00 - 0.16
B(LEFT) 0.16 - 0.54
C(DOWN) 0.54 - 1.00
D(RIGHT) 1.00 - 1.59
PUSH 1.59 - 2.31
RELEASE 2.31 - 3.16
RELEASE 3.16 - 3.30
PUSH
B KEYBOARD UNIT
S13
CSX1120-A
DISP OFF
S3
CSG1155-A
BAND/ESC
S6
SRC/
OFF
S9
EJECT
S12
D36
D37
1SS300
1SS301
DGND
ILMGND
AUX
CN3
YKN5006-A
AUX:+2.20 dBs
D38
D39
D40
D2S068C
CN1
CKS6049-A
DPDT
ILMG
KYDT
ROT1
SW5V
JOYST
DGND
ROT0
NC
ILM+B
VBUS(US5V)
AUXL
D-
AUXG
D+
AUXR
USBG
DSENS
L1
CTF1389-A
A 1/2
CN801
*COLOR2
BLUE
*COLOR1
D1- D17, D43, D44 : CL-197HB1-D-TRB
C6 - C22, C28, C29 : 4700p/50
NM
SMLXA4WBETW1(Z1)
Q2
LTC114EUB
CN2
YKS5039-A
USB
EZJZ1V800AM
USB:+2.00 dBs
Q1
IMX9

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



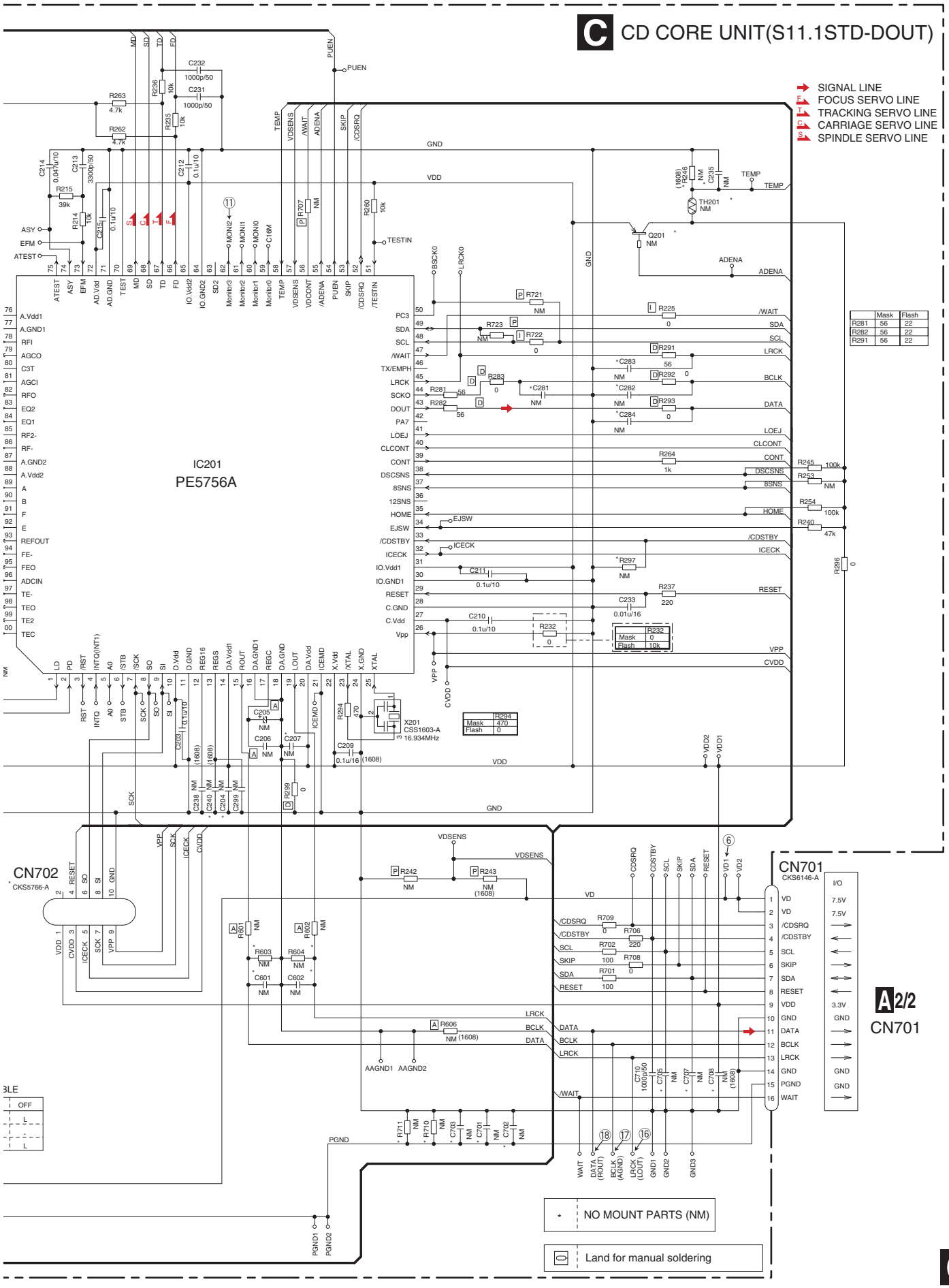
CIRCUIT No.
* C101 C102 C110 C111 C204 C207 C235 C239 C240 C281 C282 C283 C284 C301 C307 C308 C601 C602 C701 C702 C703 C705 C707 C708 D101 CN702 TH201 Q201 R106 R297 R246 R603 R604 R710 R711
D R281 R282 R283 R291 R292 R293 R299
A C205 C206 R601 R602 R606
I R225 R722
P R242 R243 R707 R721 R723

Parts with Polarity
IC201 IC301 D101 Q101 Q102 Q201
C205 C301 C308

1608:PARTS
C209 C238 C240 C306 C307 C708
R101 R102 R103 R243 R246 R606
2125:PARTS
C104

	LOAD	EJ	PLAY	OFF
CLCONT	H	H	L	L
LOEJ	L	H	-	-
CONT	L	L	H	L

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

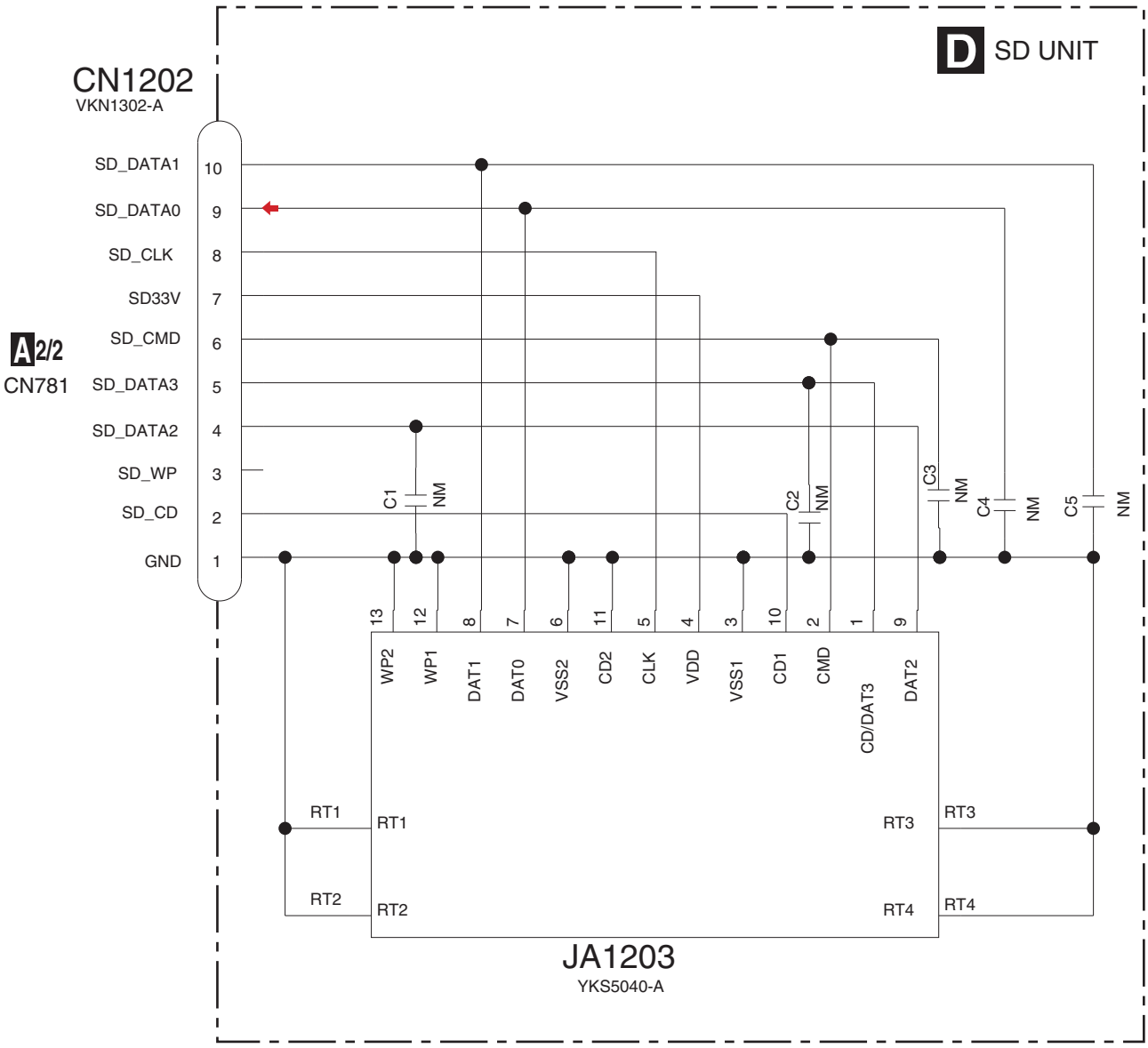


	Mask	Flash
R281	56	22
R282	56	22
R291	56	22

	R234
Mask	470
Flash	0

	R232
Mask	0
Flash	10k

10.5 SD UNIT


D SD UNIT
CN1202
VKN1302-A
SD_DATA1 10
SD_DATA0 9
SD_CLK 8
SD33V 7
SD_CMD 6
SD_DATA3 5
SD_DATA2 4
SD_WP 3
SD_CD 2
GND 1
A 2/2
CN781
C1 NM
C2 NM
C3 NM
C4 NM
C5 NM
13 WP2
12 WP1
8 DAT1
7 DAT0
6 VSS2
11 CD2
5 CLK
4 VDD
3 VSS1
10 CD1
2 CMD
1 CD/DAT3
9 DAT2
RT1
RT2
RT3
RT4
JA1203
YKS5040-A

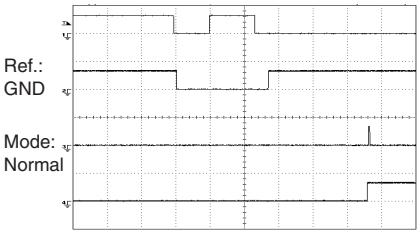
10.6 WAVEFORMS

● **CD CORE UNIT**

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

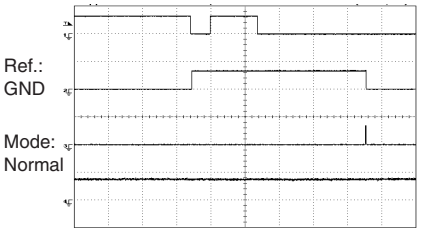
①DSCSNS	5 V/div	500 ms/div
②8SNS	5 V/div	
④LOEJ	5 V/div	
③HOME	5 V/div	

12 cm CD Loading operation



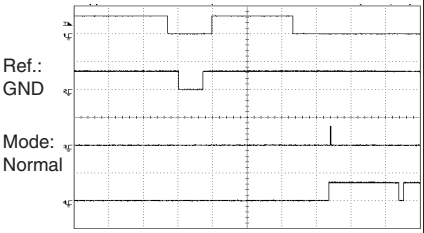
①DSCSNS	5 V/div	500 ms/div
⑤CLCONT	5 V/div	
④LOEJ	5 V/div	
⑥VD	10 V/div	

12 cm CD Loading operation



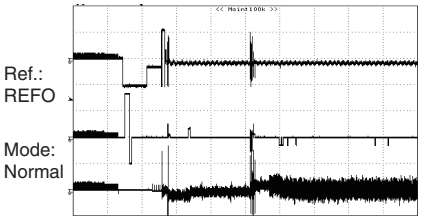
①DSCSNS	5 V/div	500 ms/div
②8SNS	5 V/div	
④LOEJ	5 V/div	
③HOME	5 V/div	

8 cm CD Loading operation



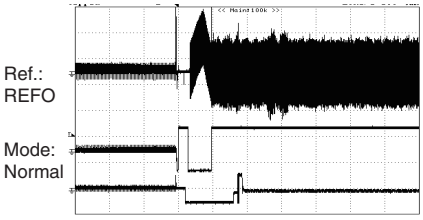
⑦SIN	1 V/div	2 s/div
⑧CIN	500 mV/div	
⑨TIN	500 mV/div	

12 cm CD-DA setup operation after loading



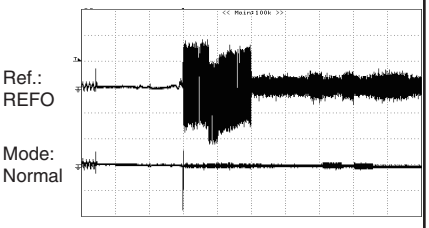
⑩FIN	200 mV/div	500 ms/div
⑪RFOK(MONI_3)	2 V/div	
⑦SIN	2 V/div	

12 cm CD-DA Source On setup operation



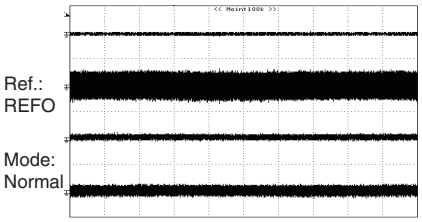
⑫TE	500 mV/div	200 ms/div
⑬FE	500 mV/div	

Source On setup operation



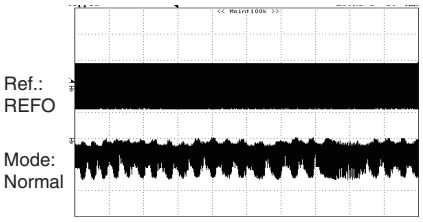
⑬FE	500 mV/div	20 ms/div
⑩FIN	500 mV/div	
⑫TE	500 mV/div	
⑨TIN	500 mV/div	

CD-DA Play operation



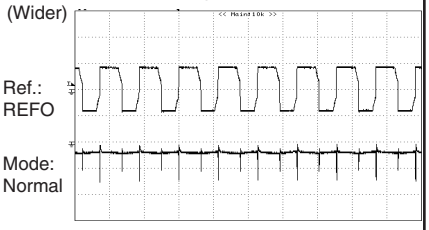
⑭MDX	2 V/div	50 ms/div
⑦SIN	500 mV/div	

Spindle waveform during play operation



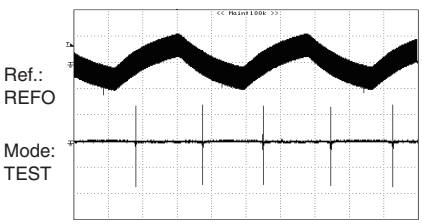
⑭MDX	2 V/div	5 μs/div
⑦SIN	500 mV/div	

Spindle waveform during play operation (Wider)



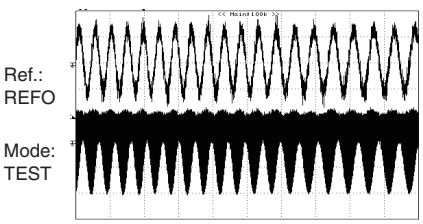
⑩FIN	500 mV/div	200 ms/div
⑬FE	500 mV/div	

Focus Search waveform



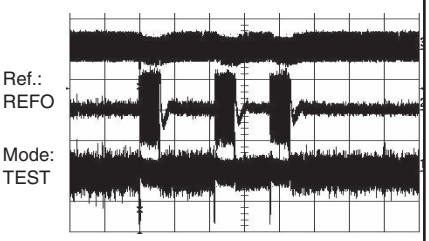
⑫TE	500 mV/div	2 ms/div
⑮RFAGC	500 mV/div	

Track Open waveform



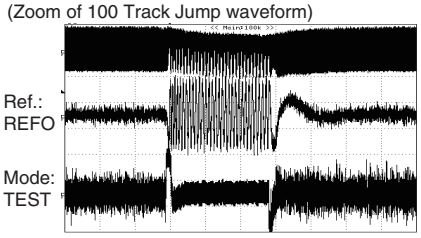
⑮RFAGC	1 V/div	500 μs/div
⑫TE	500 mV/div	
⑨TIN	500 mV/div	

100 Track Jump waveform (32 Track Jump x 3)



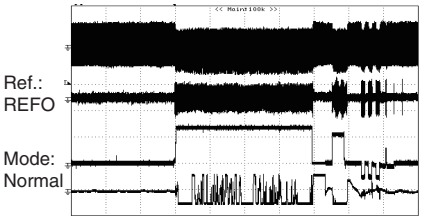
⑮RFAGC	1 V/div	2 ms/div
⑫TE	500 mV/div	
⑨TIN	500 mV/div	

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



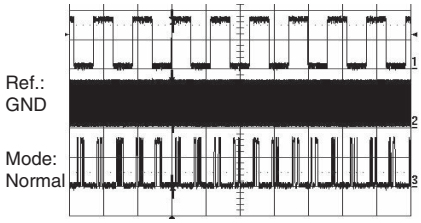
⑮RFAGC	1 V/div	200 ms/div
⑫TE	1 V/div	
⑧CIN	500 mV/div	
⑦SIN	2 V/div	

Search operation(Outter to Inner)



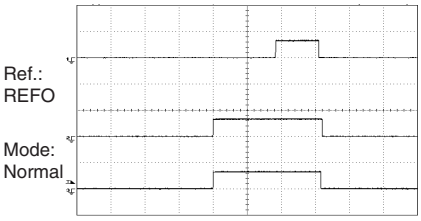
⑯LRCK	2 V/div	10 µs/div
⑰BCLK	2 V/div	
⑱DATA	2 V/div	

Digital Out waveform



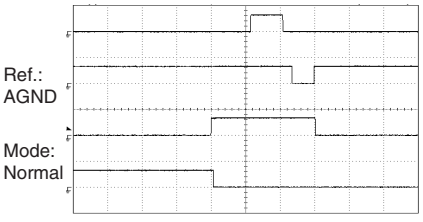
①DSCSNS	5 V/div	500 ms/div
⑤CLCONT	5 V/div	
④LOEJ	5 V/div	

12 cm CD Eject operation



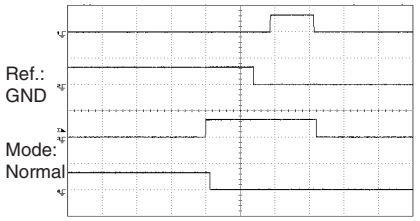
①DSCSNS	5 V/div	500 ms/div
②8SNS	5 V/div	
④LOEJ	5 V/div	
③HOME	5 V/div	

8 cm CD Eject operation



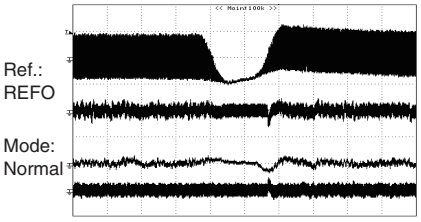
①DSCSNS	5 V/div	500 ms/div
②8SNS	5 V/div	
④LOEJ	5 V/div	
③HOME	5 V/div	

12 cm CD Eject operation



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



A

B

C

D

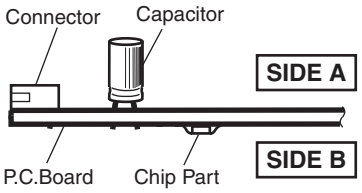
E

F

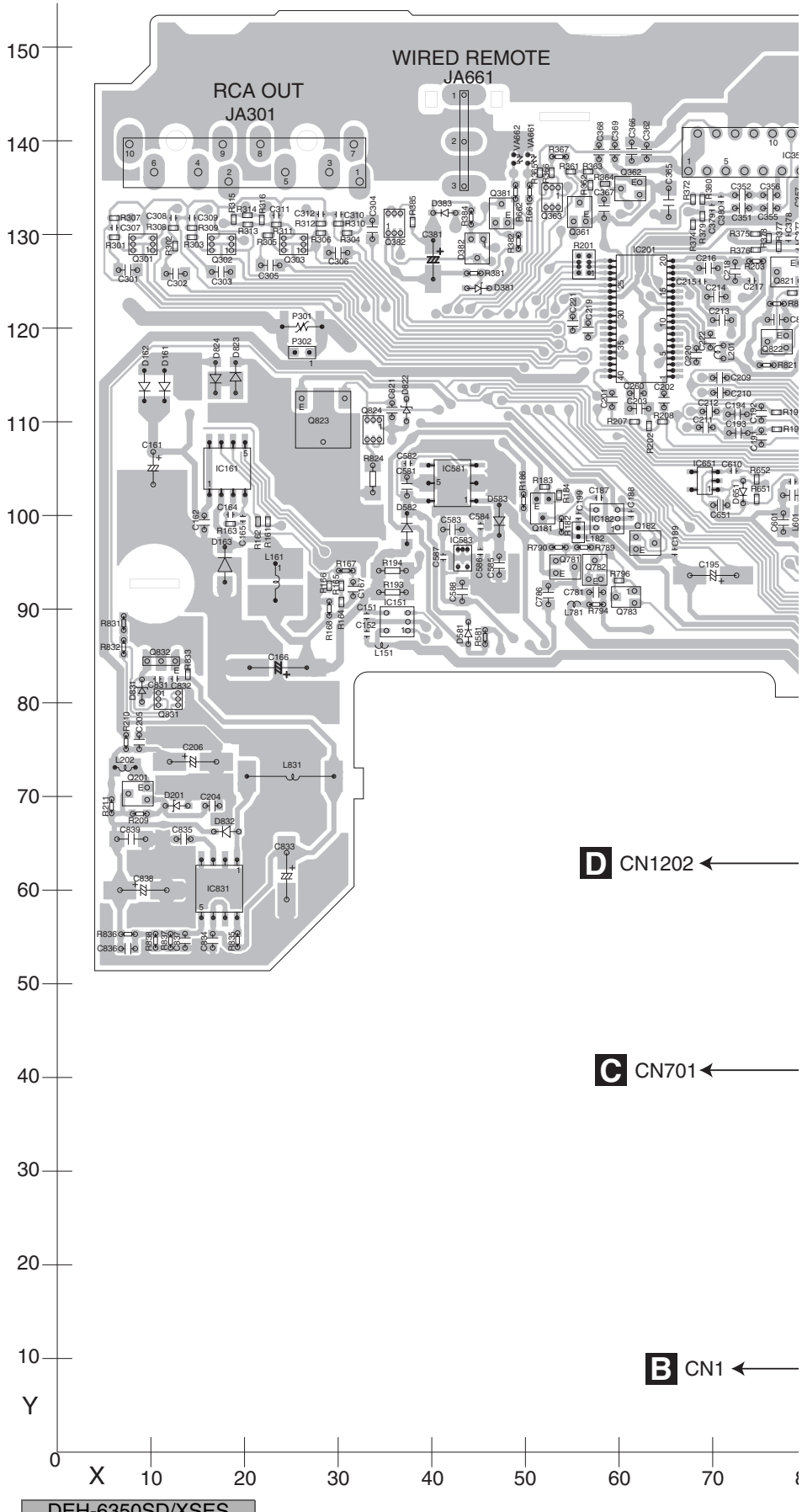
11. PCB CONNECTION DIAGRAM
11.1 TUNER AMP UNIT

NOTE FOR PCB DIAGRAMS

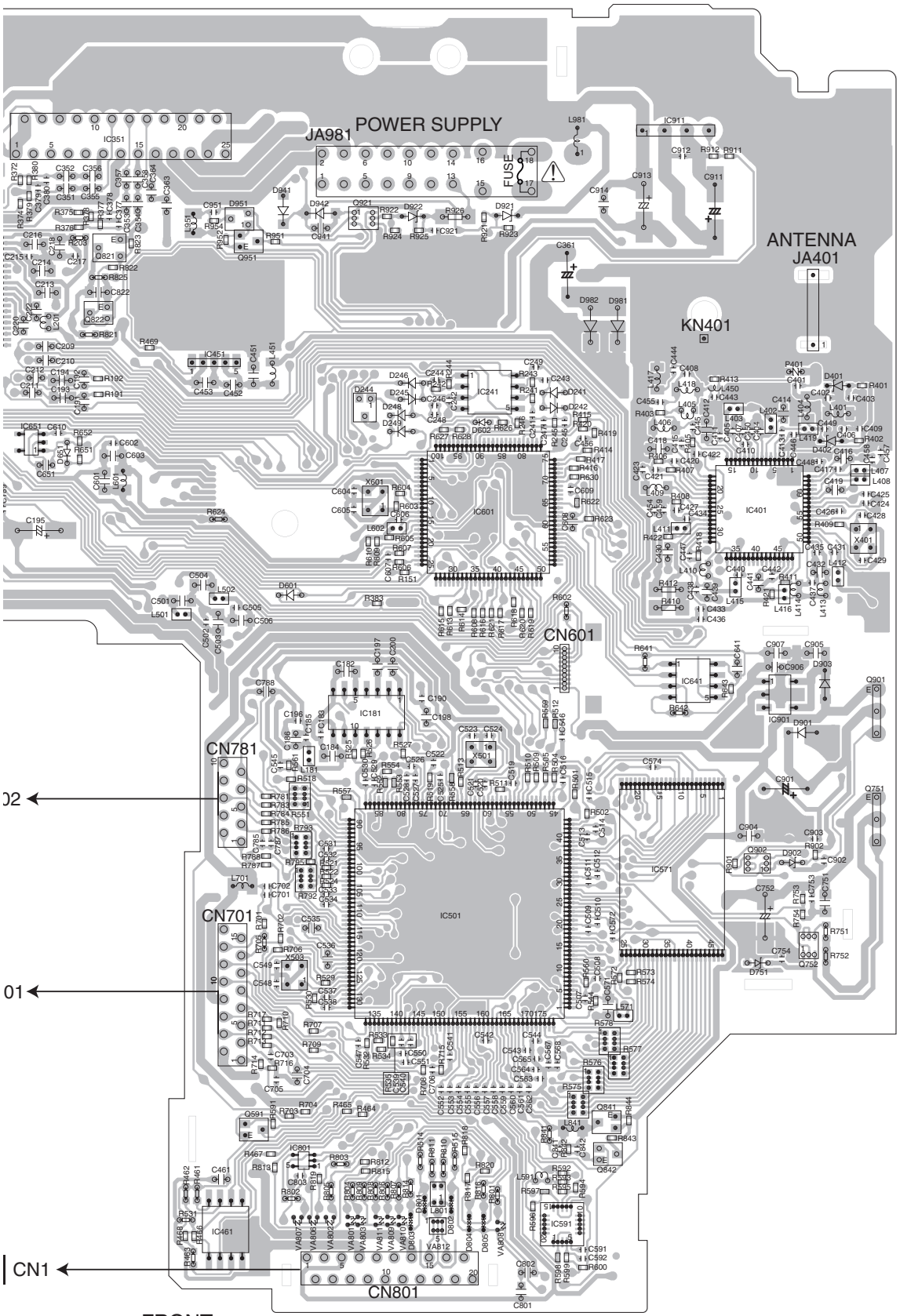
1. The parts mounted on this PCB include all necessary parts for several destination.
   For further information for respective destinations, be sure to check with the schematic diagram.
2. Viewpoint of PCB diagrams



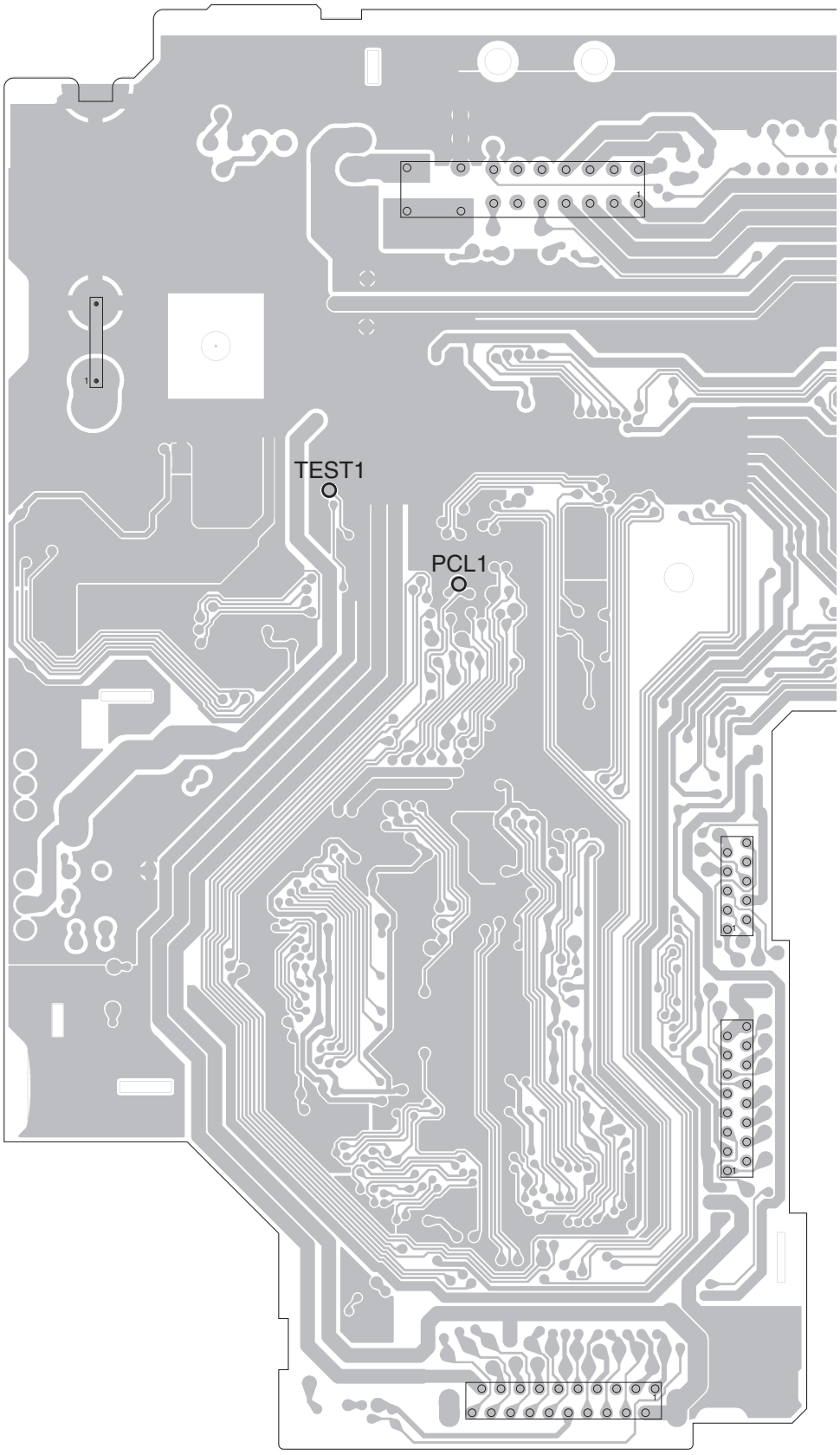
A TUNER AMP UNIT



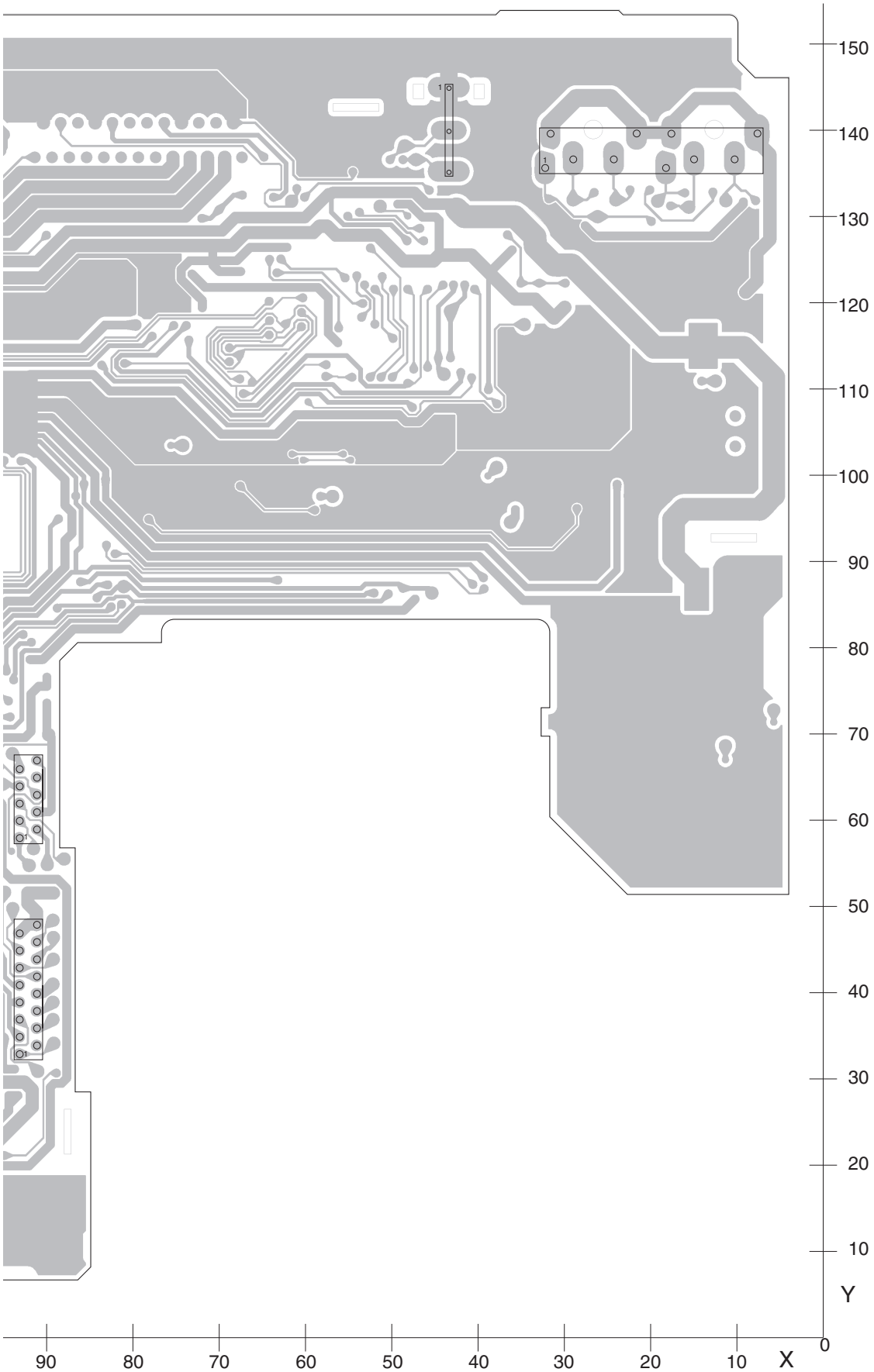
SIDE A


JA981
POWER SUPPLY
FUSE
ANTENNA
JA401
KN401
CN601
CN781
CN701
CN801
CN1
02
01
IC501
IC601
IC401
IC571
IC641
IC241
IC451
IC181
IC461
IC591
FRONT
70
80
90
100
110
120
130
140
150
160

A TUNER AMP UNIT



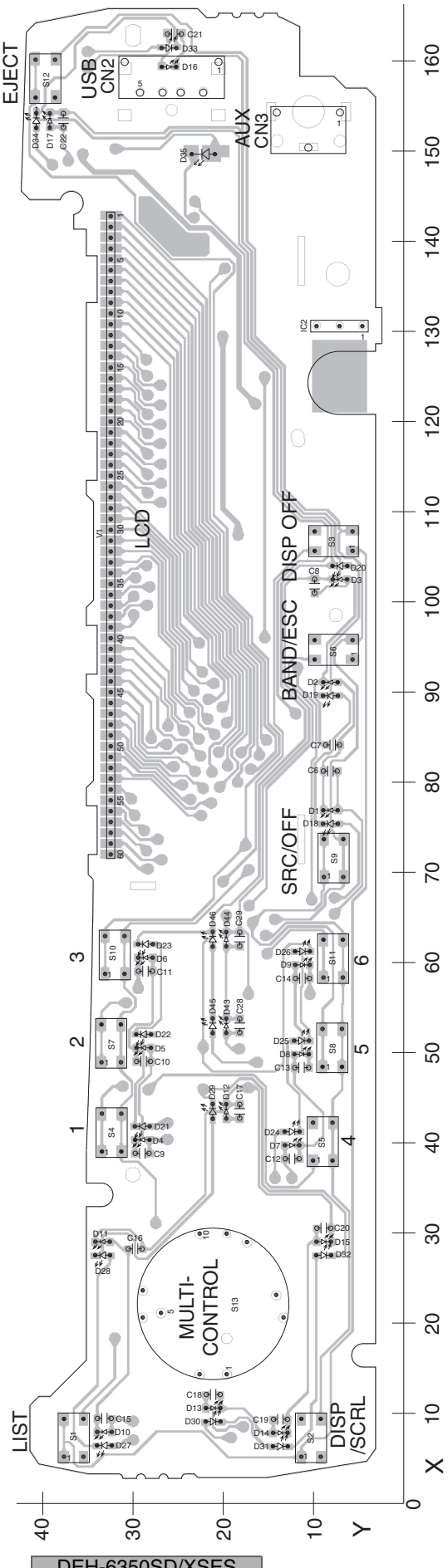
SIDE B


150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
Y
0
90
80
70
60
50
40
30
20
10
X

11.2 KEYBOARD UNIT

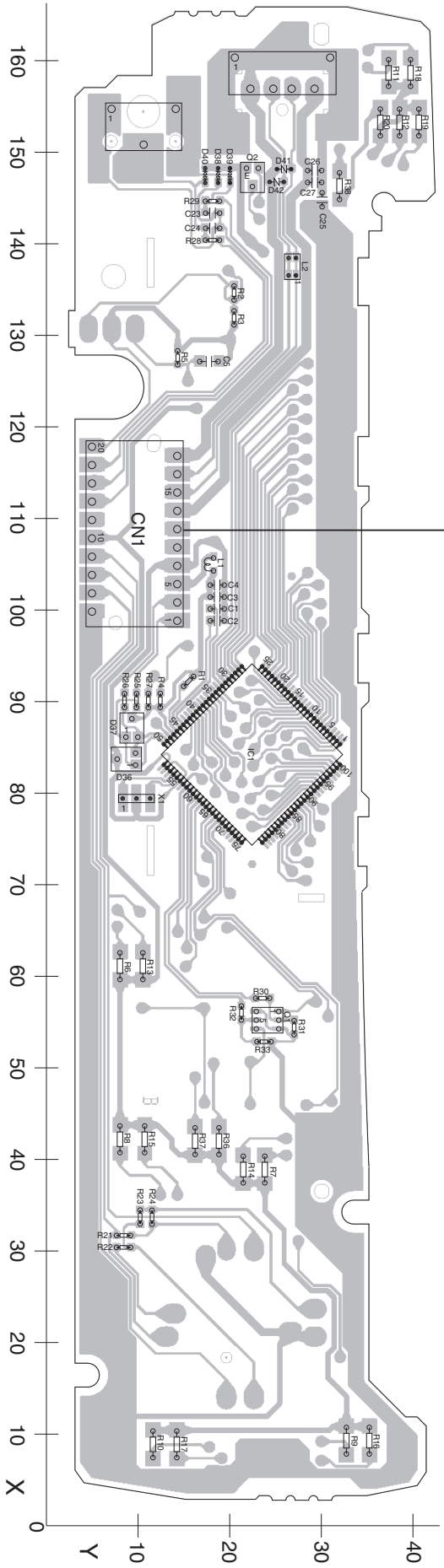
B KEYBOARD UNIT

SIDE A



B KEYBOARD UNIT

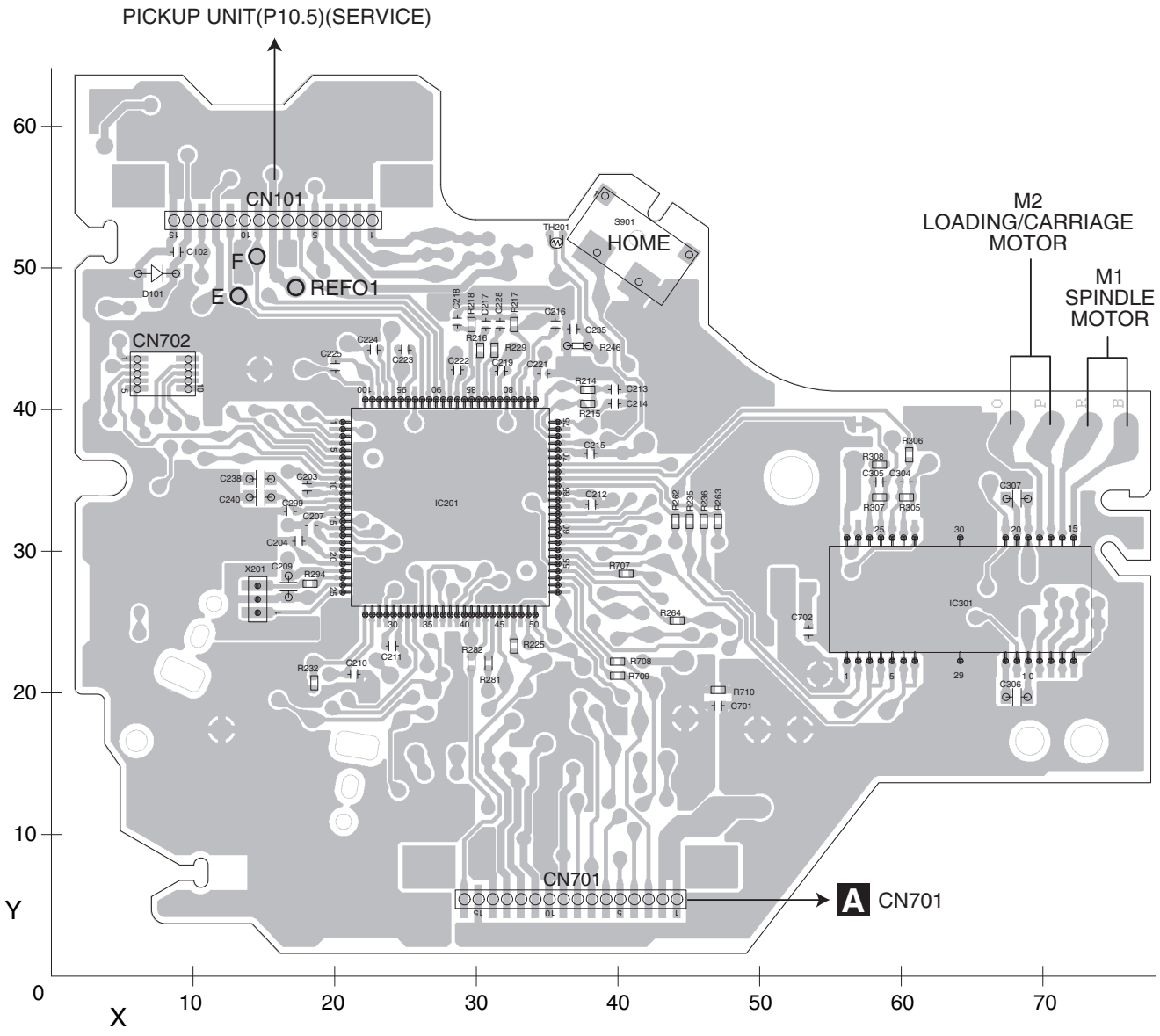
SIDE B



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

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

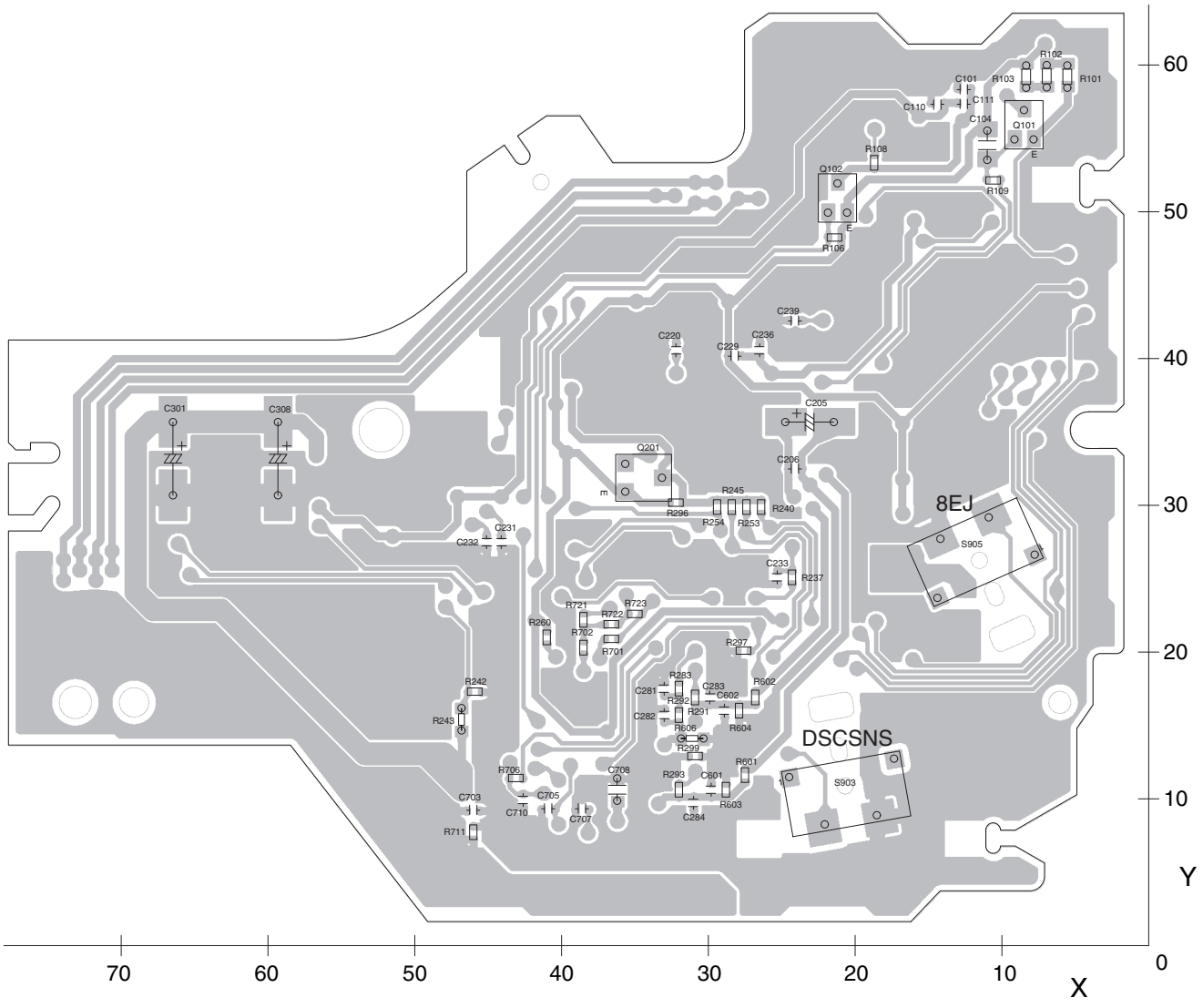
SIDE A



C

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

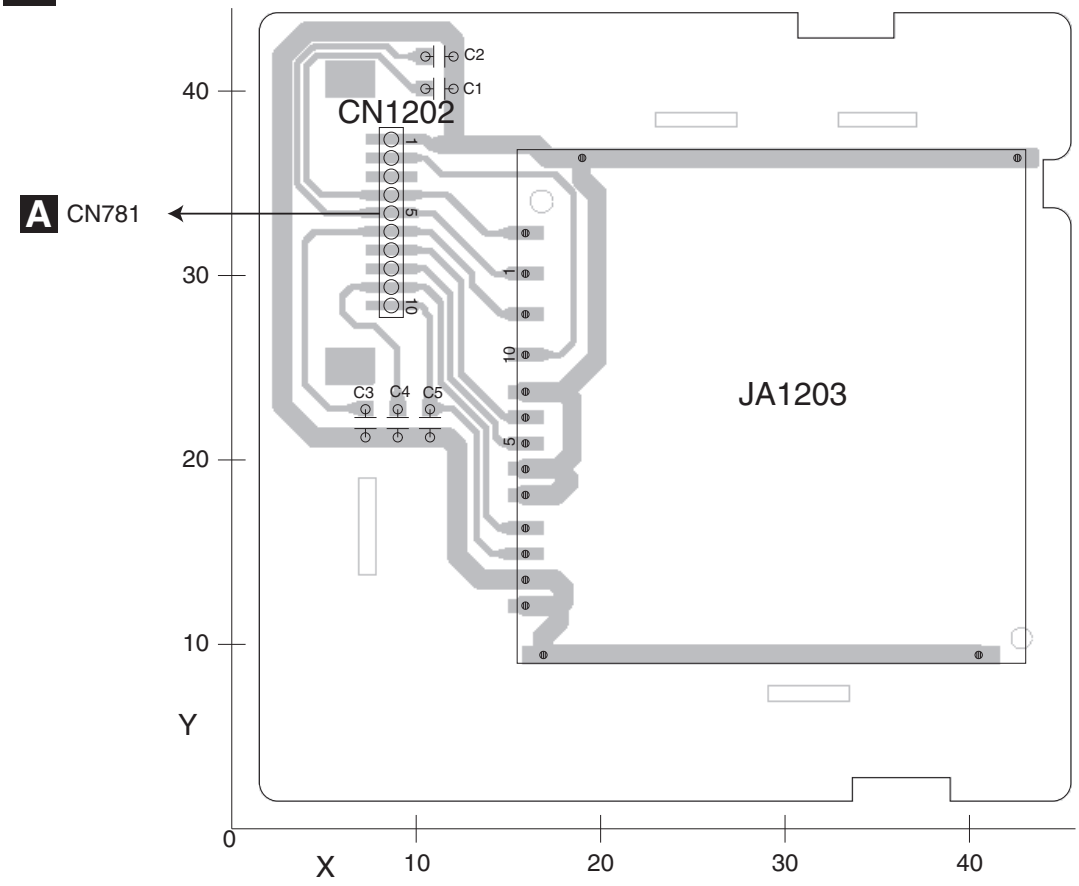
SIDE B



11.4 SD UNIT

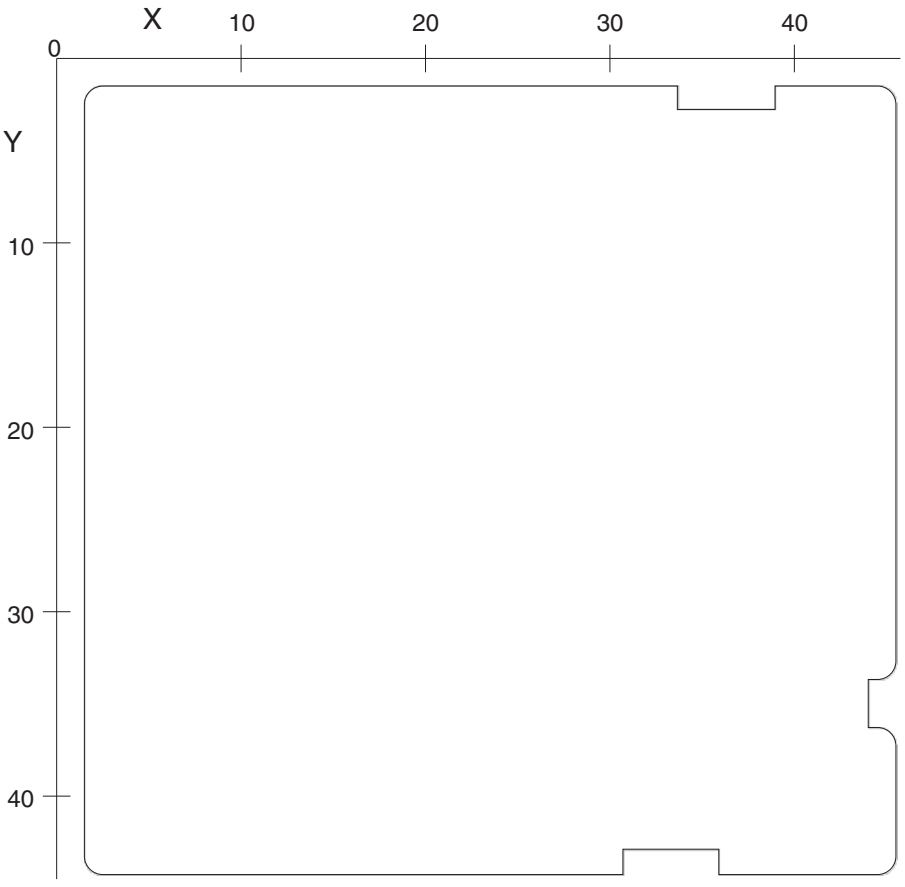
D SD UNIT

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 ⚠ 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

A:DEH-6350SD/XSES

B:DEH-6350SD/XSCN5

Unit Number : YWM5508(A)

: YWM5512(B)

Unit Name : Tuner Amp Unit

Unit Number :

Unit Name : Keyboard Unit

Unit Number : CWX3985

Unit Name : CD Core Unit(S11.1STD-DOUT)

Unit Number : YWM5516

Unit Name : SD Unit

A

Unit Number : YWM5508(A)

: YWM5512(B)

Unit Name : Tuner Amp Unit

MISCELLANEOUS

Circuit Symbol and No.		Part No.
IC 151	(A,36,89) IC	R5523N001B
IC 161	(A,18,105) IC	BD9008F
IC 181	(A,108,73) IC	WM8761GED
IC 182	(A,59,100) Regulator IC	NJM2872F05
IC 201	(A,62,121) IC	PM9012A
IC 241	(A,122,109) IC	NJM4558MD
IC 351	(A,79,143) IC	PA2030A
IC 401	(A,153,96) IC	TDA7706
IC 451	(A,90,118) IC	NJM2886DL3-05
IC 501	(A,118,50) IC	R5S7262ZD144FPU
IC 571	(A,143,55) Software Unit	CWW2867
IC 581	(A,42,103) Regulator IC	S-1172B33-E6
IC 583	(A,43,95) IC	BH12PB3WHFV
IC 591	(A,130,14) IC	341S2162
IC 601	(A,122,96) IC	PEG733A8
IC 651	(A,69,104) IC	S-80827CNMC-B8M
IC 801	(A,100,21) L-MOS And Gate	TC7SET08FUS1
IC 831	(A,17,60) IC	NJM2360M
IC 901	(A,155,75) Regulator IC	S-1132B33-U5
IC 911	(A,139,139) IC	NJM2388F84
Q 201	(A,9,70) Transistor	LSC4081UB
Q 301	(A,9,129) Chip Transistor	RN1910
Q 302	(A,18,129) Chip Transistor	RN1910
Q 303	(A,25,129) Chip Transistor	RN1910
Q 361	(A,56,132) Transistor	LTC114EUB
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
Q 831	(A,12,80) Chip Transistor	RN4983
Q 832	(A,11,86) Transistor	2SD1664
Q 841	(A,135,26) Transistor	LSA1576UB
Q 842	(A,135,22) Transistor	LTC114EUB
Q 901	(A,165,73) Transistor	2SD2396
Q 902	(A,152,55) Chip Transistor	RN4983
Q 921	(A,107,129) Chip Transistor	HN1C01FU
D 161	(A,11,114) Diode	CRG03
D 163	(A,18,95) Diode	RB160L-40
D 201	(A,13,69) Diode	UDZS15(B)
D 241	(A,129,109) Diode	RB551V-30
D 242	(A,129,108) Diode	RB551V-30
D 244	(A,107,108) Diode	1SS300
D 245	(A,113,109) Diode	RB551V-30
D 246	(A,113,111) Diode	RB551V-30
D 248	(A,112,107) Diode	RB751V-40
D 249	(A,112,105) Diode	RB751V-40
D 381	(A,45,124) Diode	RKZ8.2KG(B2)
D 382	(A,45,129) Diode	1SS301
D 383	(A,41,132) Diode	1SS352
D 401	(A,162,110) Diode	KP2311E

Circuit Symbol and No.		Part No.
D 402	(A,161,104) Diode	KP2311E
D 581	(A,44,87) Diode	1SS352
D 582	(A,37,99) Diode	CRG03
D 601	(A,99,86) Diode	RB551V-30
D 602	(A,121,106) Diode	RB751S-40
D 651	(A,73,103) Diode	1SS352
D 751	(A,152,44) Diode	RKZ8.2KG(B2)
D 801	(A,114,16) Diode	DZ2S068C
D 802	(A,117,16) Diode	DZ2S068C
D 803	(A,113,14) Diode	DZ2S068C
D 804	(A,119,14) Diode	DZ2S068C
D 805	(A,121,14) Diode	DZ2S068C
D 823	(A,19,115) Diode	CRG03
D 824	(A,17,115) Diode	CRG03
D 831	(A,9,81) Diode	RKZ10KG(B2)
D 832	(A,18,66) Diode	RB551V-30
D 901	(A,158,70) Diode	CRG03
D 902	(A,156,56) Diode	RKZ5.6KG(B2)
D 921	(A,124,130) Diode	HZU7L(C3)
D 922	(A,113,130) Diode	HZU7L(A1)
D 941	(A,98,130) Diode	CRG03
D 942	(A,102,130) Diode	CRG03
D 981	(A,136,117) Diode	1SR154-400
D 982	(A,133,117) Diode	1SR154-400
L 161	(A,23,93) Coil	CTH1475
L 181	(A,101,68) Chip Ferrite Bead	DTL1107
L 182	(A,56,98) Inductor	CTF1786
L 401	(A,162,107) Chip Coil	LCTAWR15J2520
L 402	(A,154,106) Inductor	CTF1786
L 403	(A,150,108) Inductor	CTF1786
L 404	(A,158,108) Chip Coil	LCTAWR27J2520
L 405	(A,144,107) Inductor	CTF1389
L 406	(A,142,105) Inductor	LCTAW220J2520
L 407	(A,164,101) Inductor	CTF1786
L 408	(A,164,99) Inductor	CTF1786
L 409	(A,141,99) Chip Coil	LCTAW470J2520
L 411	(A,144,94) Inductor	CTF1786
L 412	(A,162,88) Inductor	CTF1786
L 415	(A,150,87) Inductor	CTF1786
L 416	(A,155,86) Inductor	CTF1786
L 419	(A,158,105) Inductor	CTF1794
L 451	(A,97,112) Chip Coil	LCTAWR27J2520
L 501	(A,86,84) Chip Ferrite Bead	DTL1107
L 502	(A,91,86) Chip Ferrite Bead	OTL8019
L 602	(A,111,94) Inductor	CTF1786
L 801	(A,116,18) Inductor	CTF1713
L 831	(A,25,72) Inductor	CTF1660
L 981	(A,113,142) Choke Coil 600 uH	CTH1432
X 401	(A,164,93) Oscillator 36.48 MHz	CSS1805
X 501	(A,121,68) Oscillator 48.000 MHz	CSS1760
X 503	(A,99,43) Oscillator 16.93 MHz	CSS1794
X 601	(A,109,97) Oscillator 20.000 MHz	CSS1795
P 301	(A,26,120) Poly Switch	MINISMDC075F/24
P 401	(A,157,112) Surge Protector	IMSA-6802-01Y900
VA661	(A,50,138) Varistor	VR105C5R0AAA
VA662	(A,49,138) Varistor	VR105C5R0AAA
VA801	(A,105,15) Varistor	VR105C5R0AAA
VA802	(A,103,15) Varistor	VR105C5R0AAA
VA803	(A,107,15) Varistor	VR105C5R0AAA
VA806	(A,101,15) Varistor	VR105C5R0AAA
VA807	(A,100,15) Varistor	VR105C5R0AAA
VA808	(A,123,14) Varistor	VR105C5R0AAA
CN701	(A,92,40) Connector	VKN1192
CN781	(A,92,62) Connector	VKN1186
CN801	(A,110,5) Connector	CKS6188
JA301	(A,20,142) Pin Jack	YKB5016
JA401	(A,159,130) Antenna Jack	YKS5041
JA661	(A,43,140) Connector	CKS4124
JA981	(A,115,142) Plug	CKM1586
⚠	Fuse(10 A)	YEK5001

RESISTORS

R 151	(A,112,89)	RS1/16SS104J
R 161	(A,23,99)	RS1/16SS513J
R 163	(A,19,99)	RS1/16SS183J
R 164	(A,30,91)	RS1/16SS4702F
R 165	(A,30,93)	RS1/16SS682J
R 166	(A,29,93)	RS1/16SS1002F
R 168	(A,29,90)	RS1/10SR471J
R 191	(A,77,109)	RS1/16SS821J
R 192	(A,77,111)	RS1/16SS821J
R 193	(A,36,92)	RS1/4SA221J
R 194	(A,36,94)	RS1/4SA221J
R 201	(A,56,127)	RAB4CQ102J
R 202	(A,63,110)	RS1/16SS331J
R 207	(A,62,110)	RS1/16SS223J
R 208	(A,65,110)	RS1/16SS223J
R 209	(A,9,68)	RS1/10SR101J
R 210	(A,7,76)	RS1/10SR0R0J
R 241	(A,127,109)	RS1/16SS104J
R 242	(A,116,110)	RS1/16SS104J
R 243	(A,127,111)	RS1/16SS473J
R 244	(A,117,110)	RS1/16SS473J
R 245	(A,129,106)	RS1/16SS474J
R 246	(A,125,106)	RS1/16SS474J
R 301	(A,6,130)	RS1/16SS820J
R 302	(A,13,129)	RS1/16SS820J
R 303	(A,14,130)	RS1/16SS820J
R 304	(A,31,130)	RS1/16SS820J
R 305	(A,23,130)	RS1/16SS820J
R 306	(A,28,130)	RS1/16SS820J
R 307	(A,6,132)	RS1/16SS223J
R 308	(A,12,131)	RS1/16SS223J
R 309	(A,14,131)	RS1/16SS223J
R 310	(A,30,131)	RS1/16SS223J
R 311	(A,23,131)	RS1/16SS223J
R 312	(A,28,131)	RS1/16SS223J
R 313	(A,20,131)	RS1/16SS0R0J
R 314	(A,20,132)	RS1/16SS0R0J
R 361	(A,55,137)	RS1/16SS103J
R 362	(A,57,135)	RS1/16SS103J
R 363	(A,57,137)	RS1/16SS331J
R 365	(A,52,137)	RS1/16SS103J
R 366	(A,53,137)	RS1/16SS103J
R 367	(A,54,138)	RS1/16S562J
R 372	(A,68,134)	RS1/16SS362J
R 374	(A,68,131)	RS1/16SS362J
R 375	(A,75,130)	RS1/16SS362J
R 376	(A,75,128)	RS1/16SS362J

Circuit Symbol and No.		Part No.
R 377	(A,77,129)	RS1/16SS562J
R 378	(A,76,130)	RS1/16SS562J
R 379	(A,69,132)	RS1/16SS562J
R 380	(A,69,134)	RS1/16SS562J
R 381	(A,45,126)	RS1/10SR473J
R 382	(A,49,129)	RS1/10SR104J
R 383	(A,109,85)	RS1/16SS473J
R 384	(A,44,132)	RS1/10SR473J
R 385	(A,38,131)	RS1/16SS102J
R 401	(A,164,110)	RS1/16SS221J
R 402	(A,164,104)	RS1/16SS751J
R 403	(A,141,107)	RS1/16SS152J
R 405	(A,145,104)	RS1/16SS105J
R 406	(A,141,102)	RS1/16SS471J
R 407	(A,142,101)	RS1/16SS330J
R 408	(A,143,97)	RS1/16SS681J
R 409	(A,162,94)	RS1/16SS0R0J
R 410	(A,142,85)	RS1/4SA8R2J
R 412	(A,142,87)	RS1/4SA8R2J
R 413	(A,147,111)	RS1/16SS105J
R 414	(A,133,103)	RS1/16SS102J
R 415	(A,132,106)	RS1/16SS102J
R 417	(A,132,102)	RS1/16SS102J
R 419	(A,134,105)	RS1/16SS103J
R 420	(A,132,105)	RS1/16SS103J
R 469	(A,83,115)	RS1/16SS102J
R 501	(A,131,63)	RS1/16SS473J
R 502	(A,133,61)	RS1/16SS101J
R 504	(A,129,65)	RS1/16SS473J
R 505	(A,128,65)	RS1/16SS473J
R 509	(A,127,65)	RS1/16SS473J
R 510	(A,126,65)	RS1/16SS473J
R 513	(A,118,65)	RS1/16SS102J
R 518	(A,99,65)	RS1/16SS101J
R 519	(A,115,65)	RS1/16SS5601F
R 521	(A,103,55)	RS1/16SS473J
R 522	(A,103,54)	RS1/16SS473J
R 526	(A,107,68)	RS1/16SS221J
R 529	(A,103,42)	RS1/16SS332J
R 530	(A,102,40)	RS1/16SS473J
R 531	(A,87,15)	RS1/10SR473J
R 532	(A,108,35) (A)	RS1/16SS561J
	(A,108,35) (B)	RS1/16SS221J
R 533	(A,109,35)	RS1/16SS101J
R 534	(A,109,34)	RS1/16SS101J
R 535	(A,111,35)	RS1/16SS221J
R 544	(A,134,40)	RS1/16SS472J
R 554	(A,110,66)	RS1/16SS473J
R 560	(A,133,42)	RS1/16SS473J
R 561	(A,99,67)	RS1/16SS103J
R 572	(A,137,42)	RS1/16SS472J
R 574	(A,138,42)	RS1/16SS472J
R 575	(A,132,28)	RAB4CQ221J
R 576	(A,134,31)	RAB4CQ221J
R 577	(A,136,32)	RAB4CQ221J
R 578	(A,135,35)	RAB4CQ221J
R 591	(A,97,26)	RS1/16SS472J
R 592	(A,130,20)	RS1/16SS101J
R 593	(A,130,19)	RS1/16SS103J
R 594	(A,132,18)	RS1/16SS101J

Circuit Symbol and No.		Part No.
R 595	(A,130,18)	RS1/16SS103J
R 596	(A,127,16)	RS1/16SS473J
R 599	(A,130,10)	RS1/16SS272J
R 600	(A,132,9)	RS1/16SS472J
R 602	(A,130,84)	RS1/10SR472J
R 603	(A,111,96)	RS1/16SS105J
R 604	(A,111,98)	RS1/16SS101J
R 605	(A,110,93)	RS1/16SS104J
R 606	(A,111,90)	RS1/16SS222J
R 607	(A,111,91)	RS1/16SS104J
R 608	(A,120,84)	RS1/16SS104J
R 609	(A,109,92)	RS1/16SS104J
R 610	(A,108,92)	RS1/16SS104J
R 613	(A,117,84)	RS1/16SS104J
R 614	(A,118,85)	RS1/16SS104J
R 615	(A,116,84)	RS1/16SS104J
R 616	(A,121,84)	RS1/16SS104J
R 617	(A,123,84)	RS1/16SS104J
R 618	(A,124,85)	RS1/16SS104J
R 619	(A,126,84)	RS1/16SS472J
R 620	(A,125,84)	RS1/16SS104J
R 621	(A,122,84)	RS1/16SS104J
R 623	(A,133,95)	RS1/16SS104J
R 626	(A,123,106)	RS1/16SS103J
R 630	(A,131,100)	RS1/16SS104J
R 643	(A,149,75)	RS1/16SS104J
R 651	(A,75,102)	RS1/16SS104J
R 652	(A,75,104)	RS1/16SS152J
R 661	(A,50,135)	RS1/10SR102J
R 662	(A,49,135)	RS1/10SR102J
R 701	(A,96,49)	RS1/16SS472J
R 702	(A,98,47)	RS1/16SS473J
R 703	(A,99,27)	RS1/16SS472J
R 704	(A,101,27)	RS1/16SS472J
R 705	(A,96,46)	RS1/10SR221J
R 706	(A,97,46)	RS1/16SS221J
R 707	(A,102,36)	RS1/16SS101J
R 708	(A,114,32)	RS1/16SS221J
R 709	(A,102,34)	RS1/16SS101J
R 710	(A,98,37)	RS1/16SS102J
R 711	(A,96,37)	RS1/16SS151J
R 712	(A,96,36)	RS1/16SS151J
R 713	(A,96,35)	RS1/16SS151J
R 714	(A,95,32)	RS1/16SS221J
R 715	(A,116,32)	RS1/16SS104J
R 716	(A,97,32)	RS1/16SS104J
R 717	(A,96,38)	RS1/16SS104J
R 751	(A,160,48)	RS1/10SR821J
R 753	(A,158,51)	RS1/16SS473J
R 754	(A,158,50)	RS1/16SS103J
R 781	(A,96,63)	RS1/16SS221J
R 783	(A,96,62)	RS1/16SS221J
R 784	(A,96,61)	RS1/16SS221J
R 785	(A,96,60)	RS1/16SS221J
R 786	(A,96,59)	RS1/16SS221J
R 787	(A,96,55)	RS1/16SS221J
R 788	(A,96,56)	RS1/16SS221J
R 789	(A,56,97)	RS1/10SR681J
R 790	(A,54,97)	RS1/10SR103J
R 792	(A,101,54)	RAB4CQ473J

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
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
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
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
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
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
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

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 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 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 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 198	(A,114,72) (A)	CCSRCH150J50
C 199	(A,56,100) (A)	CKSSYB104K16
C 200	(A,111,78) (A)	CCSRCH220J50
C 201	(A,59,112)	CKSRYB105K10
C 202	(A,65,112)	CKSRYB105K10
C 203	(A,62,111)	CKSQYB225K10
C 204	(A,17,69)	CKSRYB104K16
C 205	(A,9,76)	CKSRYB104K16
C 206	(A,15,74) Capacitor	CEVW470M16
C 209	(A,71,115)	CKSRYB224K16
C 210	(A,71,113)	CKSRYB224K16
C 211	(A,69,109)	CKSRYB105K10
C 212	(A,70,111)	CKSRYB105K10
C 213	(A,71,121) 10 uF	CCG1192
C 214	(A,70,123) 10 uF	CCG1192
C 215	(A,69,125)	CKSSYB104K10
C 216	(A,70,126) 10 uF	CCG1192
C 217	(A,74,125)	CKSSYB104K10
C 218	(A,72,126) 10 uF	CCG1192
C 219	(A,57,120)	CKSRYB105K10
C 220	(A,68,117)	CKSRYB105K10
C 241	(A,127,107)	CKSSYB104K10
C 242	(A,117,109)	CKSSYB104K10
C 243	(A,128,111)	CKSSYB104K10
C 244	(A,116,111)	CKSSYB104K10
C 245	(A,130,106)	CKSSYB474K6R3
C 246	(A,115,108)	CKSSYB474K6R3
C 247	(A,128,106)	CCSSCH101J50
C 248	(A,115,107)	CCSSCH101J50
C 249	(A,127,112)	CKSSYB103K16
C 260	(A,62,113)	CKSRYB105K10
C 301	(A,8,126) 10 uF	CCG1192
C 302	(A,13,126) 10 uF	CCG1192
C 303	(A,18,126) 10 uF	CCG1192
C 304	(A,34,131) 10 uF	CCG1192
C 305	(A,23,127) 10 uF	CCG1192
C 306	(A,30,128) 10 uF	CCG1192
C 351	(A,73,133)	CKSRYB474K10
C 352	(A,73,134)	CKSRYB474K10
C 353	(A,80,131)	CKSRYB474K10
C 354	(A,81,131)	CKSRYB474K10
C 355	(A,76,133)	CKSRYB474K10
C 356	(A,76,134)	CKSRYB474K10
C 357	(A,80,134)	CKSRYB474K10
C 358	(A,81,134)	CKSRYB474K10
C 361	(A,131,123) 3 300 uF/16 V	CCH1486
C 362	(A,63,139)	CKSRYB104K16
C 363	(A,85,131) 2.2 uF	CCG1205
C 364	(A,83,132) 2.2 uF	CCG1205
C 365	(A,65,133) 10 uF	CCG1236
C 367	(A,58,133) 10 uF	CCG1192
C 377	(A,79,129)	CCSSCH220J50
C 378	(A,78,130)	CCSSCH220J50
C 379	(A,70,133)	CCSSCH220J50
C 380	(A,71,134)	CCSSCH220J50
C 381	(A,40,127) Capacitor	CEVW220M16
C 401	(A,157,110)	CCSSCH330J50
C 402	(A,160,109)	CCSSCH6R0D50
C 403	(A,163,109)	CKSSYB103K16
C 404	(A,153,105)	CKSSYB104K16

Circuit Symbol and No.		Part No.
C 405	(A,150,105)	CKSSYB104K16
C 406	(A,162,105)	CKSSYB103K16
C 407	(A,151,105)	CKSSYB104K16
C 409	(A,164,105)	CKSSYB103K16
C 410	(A,151,104)	CKSSYB103K16
C 411	(A,148,104)	CKSSYB103K16
C 412	(A,147,105) 10 uF	CCG1192
C 413	(A,155,105)	CKSSYB103K16
C 414	(A,155,107)	CKSRYB105K10
C 415	(A,144,104)	CKSSYB103K16
C 416	(A,162,102)	CKSRYB224K16
C 417	(A,162,101)	CKSSYB104K16
C 418	(A,141,103) 10 uF	CCG1192
C 419	(A,161,98)	CKSRYB105K10
C 420	(A,143,102)	CKSSYB104K16
C 421	(A,141,101)	CCSSCH101J50
C 422	(A,145,102)	CKSSYB104K16
C 423	(A,139,101)	CKSSYB103K16
C 424	(A,165,97)	CKSSYB472K25
C 425	(A,165,98)	CKSSYB472K25
C 426	(A,162,96)	CKSSYB104K16
C 427	(A,143,96)	CCSSCH820J50
C 428	(A,164,95)	CCSSCH100D50
C 429	(A,164,90)	CCSSCH100D50
C 430	(A,142,91)	CKSRYB474K16
C 431	(A,161,91)	CKSSYB104K16
C 432	(A,159,89) 2.2 uF	CCG1205
C 434	(A,144,95)	CKSSYB102K50
C 439	(A,147,87)	CKSRYB105K10
C 440	(A,150,89)	CKSSYB104K10
C 441	(A,152,88) 2.2 uF	CCG1205
C 443	(A,147,109)	CKSSYB103K16
C 445	(A,145,105)	CKSSYB223K16
C 447	(A,145,91)	CKSSYB102K50
C 448	(A,159,102)	CKSSYB104K16
C 451	(A,95,111) 4.7 uF	CCG1201
C 452	(A,92,110)	CKSRYB103K50
C 453	(A,89,111) 4.7 uF	CCG1201
C 454	(A,141,96)	CKSSYB104K16
C 501	(A,86,86) 10 uF	CCG1192
C 503	(A,91,83) 10 uF	CCG1192
C 504	(A,89,87) 10 uF	CCG1192
C 506	(A,93,83) 10 uF	CCG1192
C 507	(A,133,40)	CKSSYB104K10
C 508	(A,134,42)	CKSSYB104K10
C 509	(A,133,48)	CKSSYB104K10
C 510	(A,134,49)	CKSSYB104K10
C 511	(A,133,53)	CKSSYB104K10
C 512	(A,134,54)	CKSSYB104K10
C 513	(A,133,59)	CKSSYB104K10
C 514	(A,134,59)	CKSSYB104K10
C 515	(A,133,63)	CKSSYB103K16
C 516	(A,130,65)	CKSSYB104K10
C 519	(A,124,65)	CKSSYB104K10
C 520	(A,121,65)	CKSSYB104K10
C 521	(A,120,65)	CKSSYB104K10
C 522	(A,115,67)	CKSSYB104K10
C 523	(A,120,70)	CCSSCH100D50
C 524	(A,122,70)	CCSSCH100D50
C 525	(A,116,65)	CKSSYB104K10

Circuit Symbol and No.		Part No.
C 526	(A,113,67)	CKSSYB104K10
C 527	(A,113,65)	CKSSYB104K10
C 528	(A,112,65)	CKSSYB104K10
C 529	(A,108,65)	CKSSYB104K10
C 530	(A,107,65)	CKSSYB104K10
C 531	(A,103,57)	CKSSYB104K10
C 532	(A,103,56)	CKSSYB104K10
C 533	(A,103,52)	CKSSYB104K10
C 534	(A,103,51)	CKSSYB104K10
C 535	(A,101,48)	CKSRYB104K16
C 536	(A,103,44)	CKSRYB104K16
C 537	(A,103,40)	CKSSYB104K10
C 538	(A,103,39)	CKSSYB104K10
C 539	(A,112,35)	CKSSYB104K10
C 540	(A,113,35)	CKSSYB104K10
C 541	(A,117,33)	CKSSYB104K10
C 542	(A,121,35)	CKSSYB104K10
C 543	(A,126,34)	CKSSYB104K10
C 544	(A,127,35)	CKSSYB104K10
C 545	(A,98,67)	CKSSYB105K6R3
C 546	(A,130,70)	CKSSYB102K50
C 548	(A,97,42)	CCSSCH120J50
C 549	(A,97,44)	CCSSCH120J50
C 571	(A,135,39) 10 uF	CCG1192
C 572	(A,136,47)	CKSSYB104K10
C 574	(A,140,67)	CKSSYB103K16
C 581	(A,37,103) 10 uF	CCG1192
C 583	(A,42,99) 10 uF	CCG1192
C 585	(A,47,95) 10 uF	CCG1192
C 588	(A,43,92) 10 uF	CCG1192
C 591	(A,132,11)	CKSSYB104K10
C 592	(A,132,10)	CKSSYB104K10
C 604	(A,106,98)	CCSSCH100D50
C 605	(A,106,96)	CCSSCH120J50
C 606	(A,111,95)	CKSSYB105K6R3
C 608	(A,131,95)	CKSRYB105K10
C 610	(A,72,105)	CKSSYB104K10
C 651	(A,71,101)	CKSRYB105K10
C 703	(A,97,33)	CCSSCH220J50
C 704	(A,100,31)	CCSRCH100D50
C 705	(A,97,31)	CCSSCH220J50
C 706	(A,115,32)	CKSSYB103K16
C 754	(A,155,45)	CKSSYB473K16
C 788	(A,96,75)	CKSRYB102K50
C 801	(A,125,6)	CKSRYB104K16
C 802	(A,126,9)	CKSRYB105K16
C 803	(A,100,20)	CKSSYB104K10
C 822	(A,77,121)	CKSQYB105K16
C 831	(A,11,83)	CKSSYB473K16
C 832	(A,13,83)	CKSSYB104K16
C 833	(A,25,62)	CEVW101M16
C 834	(A,17,55)	CKSRYB104K16
C 835	(A,14,65)	CCSRCH471J50
C 836	(A,8,54)	CCSRCH101J50
C 838	(A,9,60) Capacitor	CEVW470M16
C 839	(A,8,65) 10 uF	CCG1236
C 901	(A,156,64)	CEAT102M16(P30)
C 902	(A,160,56)	CKSSYB103K16
C 904	(A,151,59) 10 uF	CCG1192
C 905	(A,159,80)	CKSQYB475K6R3

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

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

Circuit Symbol and No.		Part No.
CN1	(B,108,10) Connector	CKS6049
CN2	(A,156,26) Connector	YKS5039
CN3	(A,154,11) Jack	YKN5006
	LCD	YAW5109

RESISTORS

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

Circuit Symbol and No.		Part No.

C

Unit Number : CWX3985
Unit Name : CD Core Unit(S11.1STD-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

Circuit Symbol and No.		Part No.
R 709	(A,40,21)	RS1/16SS0R0J
R 722	(B,37,22)	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

D

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