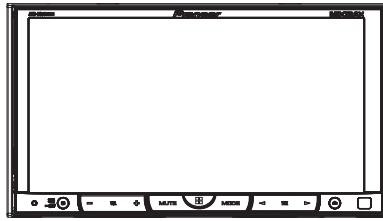


Service Manual



AVH-X8500BHS/XNUC

ORDER NO.
CRT5284

DVD RDS AV RECEIVER

AVH-X8500BHS/XNUC

AVH-X8500BT/XNEW5

AVH-X8500BT/XNUW5

AVH-X8550BT/XNRC

AVH-X8550BT/XNRD

AVH-X8550BT/XNRI

AVH-X8590BT/XNID

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

Model No.	Order No.	Mech.Module	Remarks
CX-3283	CRT4843	LS2	DVD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly



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

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PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium

PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936

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A

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

B

This product may contain a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm.
Health & Safety Code Section 25249.6 - Proposition 65

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.

C

- 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.

D

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.

F

Laser diode characteristics

Wave length:

DVD:660 nm to 670 nm

CD:780 nm to 800 nm

Focus lens on Maximum output:

CD:6.26 mW(Emitting period :9 sec.)

DVD:1.27 mW (Emitting period : unlimited)

Additional Laser Caution

Transistors Q1103 and Q1104 in PCB drive the laser diodes for DVD and CD respectively. When Q1103 or Q1104 is shorted between their terminals, the laser diodes for DVD or CD will radiate beam. If the top cover is removed with no disc loaded while such short-circuit is continued, the naked eyes may be exposed to the laser beam.

CAUTION

Danger of explosion if battery is incorrectly replaced.

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

Discard used batteries according to the manufacturer's instructions.

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B

C

D

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1. SERVICE PRECAUTIONS

1.1 SERVICE PRECAUTIONS



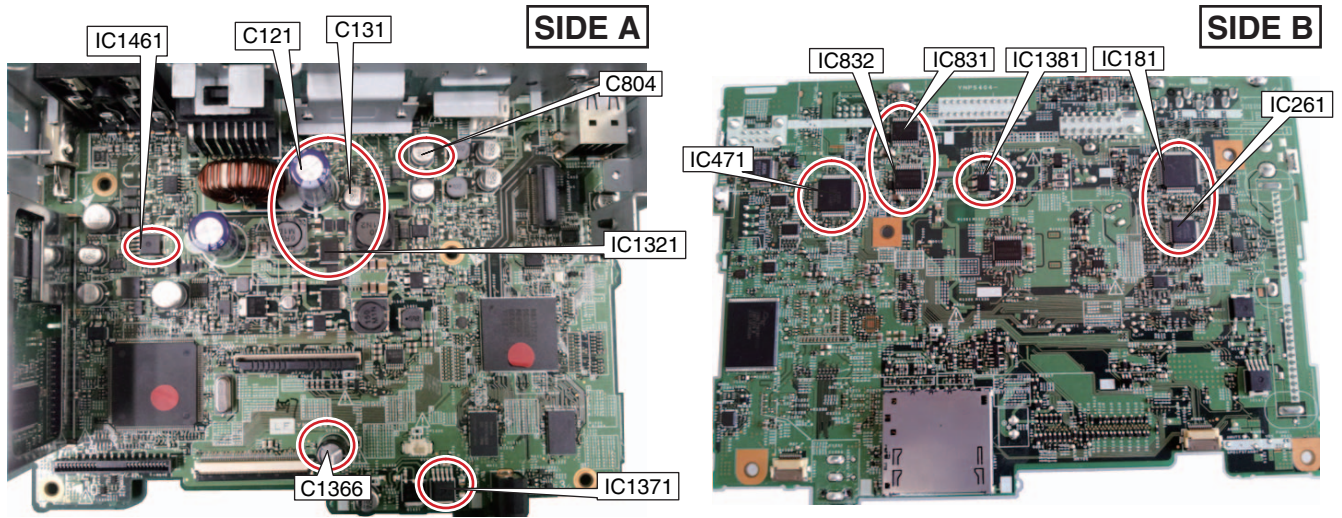
1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
2. Be careful in handling ICs. Some ICs such as MOS type are so fragile that they can be damaged by electrostatic induction.
3. Please be sure to conduct line process to original status if you make assembling after repair.
4. Please be careful of not to imply static charge onto integrated circuits, etc, when you conduct repair work. Especially, please use soldering iron with its tip grounded. Also, please use a pair of tweezers with static charge protection capability if there is the possibility of contacting to device terminals, and avoid the use of metal-made tweezers.
5. 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.
6. Please keep the distance of more than 13 cm from focus lens for safety when you check pickup and make adjustment, and do not look straight at Laser Beam for more than 10 seconds.
7. Please power adjustment when you replaced mechanical area of DVD Mecha Module or DVD core unit.
8. 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.

TUNER AMP PCB	IC1004	R8A77240D500BG1	BGA
	IC1201/IC1202	H5PS5162GFR-S5C	BGA
	IC1401	AL2010	Heat pad
	IC401	337S3959	QFN package and Heat pad
MONITOR UNIT(SERVICE)	IC4001	BD81A04EFV-M	Heat pad
	IC4151	AK4187VN	Heat pad
	IC4300	R1290K103A	Heat pad
HDMI UNIT	IC10	MN864779KT	BGA

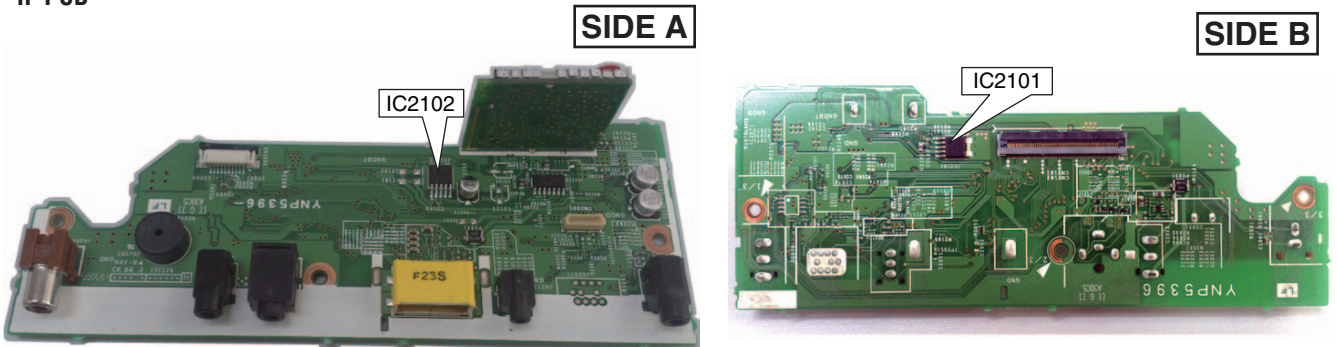
9. On this mechanism, Pickup and Spindle Motor can not be replaced at the service site, because a special facility is required for the adjustment after replacing them.
So, if Pickup or Spindle Motor is defective, replace the Mechanism Unit.
10. EJECT LOCK MODE for DVD mechanism
In order to change the EJECT LOCK status of the mechanism, please perform following procedure.
[VOL-] + [EJECT] -> ACC ON

11. The following area, Heat sink, Top plate and Rear panel becomes hot areas. Be careful not to burn yourself.

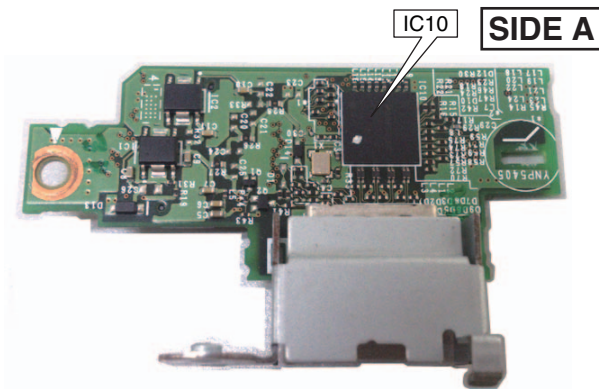
TUNER AMP PCB



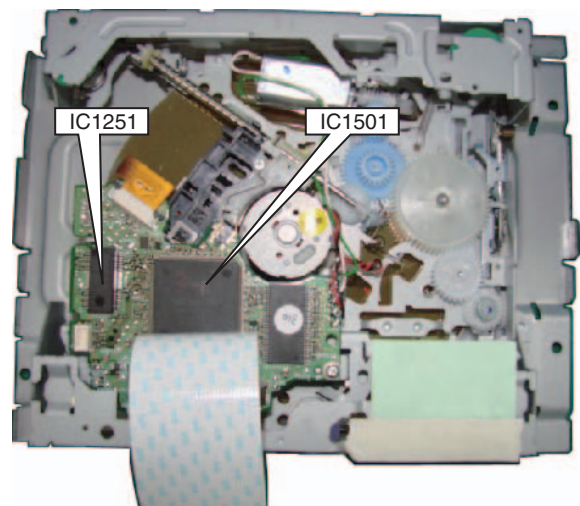
IF PCB



HDMI UNIT



DVD MECHANISM MODULE



1.2 NOTES ON SOLDERING

A

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

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

B

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

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

C

D

E

F

2. SPECIFICATIONS

2.1 SPECIFICATIONS

• UC Type

General

Power source	14.4 V DC (10.8 V to 15.1 V allowable)
Grounding system	Negative type
Maximum current consumption	10.0 A
Backup current	5 mA or less
Dimensions (W × H × D):	
D	
Chassis	178 mm × 100 mm × 165 mm (7 in. × 3-7/8 in. × 6-1/2 in.)
Nose	171 mm × 97 mm × 21 mm (6-3/4 in. × 3-7/8 in. × 7/8 in.)
Weight	2.1 kg (4.6 lbs)

Display

Screen size/aspect ratio ...	6.95 inch wide/16:9 (effective display area: 156.6 mm × 81.6 mm)
Pixels	1 152 000 (2 400 × 480)
Display method	TFT active matrix, driving type
Color system	NTSC/PAL/PAL-M/PAL-N/ SECAM compatible
Durable temperature range (power off)	-4 °F to +176 °F

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 (2 Ω for 1 ch) allowable)
Preout maximum output level	4.0 V
Equalizer (8-Band Graphic Equalizer):	
Frequency	40 Hz/80 Hz/200 Hz/400 Hz/ 1 kHz/2.5 kHz/8 kHz/10 kHz
Gain	±12 dB
HPF:	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/ 125 Hz
Slope	-12 dB/oct
Subwoofer (mono):	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/ 125 Hz
Slope	-18 dB/oct
Gain	+6 dB to -24 dB
Phase	Normal/Reverse
Bass boost:	
Gain	+12 dB to 0 dB

DVD Player

System	DVD video, Video CD, CD, WMA, MP3, AAC, DivX, MPEG player
Usable discs	DVD video, Video CD, CD, CD- R/RW, DVD-R/RW/R DL
Region number	1
Frequency response	5 Hz to 44 000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio	96 dB (1 kHz) (IHF-A network) (RCA level)

Output level:

Video	1.0 Vp-p/75Ω(±0.2 V)
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 (2 ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes encoded only) (.m4a) (Ver. 10.6 and earlier)
DivX decoding format	Home Theater Ver. 3, 4, 5.2, 6 (.avi, .divx)
MPEG video decoding format	MPEG-1 (.mpg, .mpeg, .dat) MPEG-2 PS (.mpg, .mpeg) MPEG-4 Part2 (Visual), MS- MPEG-4 Ver. 3 (.avi)

USB

USB standard specification	USB 1.1, USB 2.0 high speed
Maximum current supply	1.0 A
USB Class	MSC (Mass Storage Class) iPod (Audio Class, HID Class)
File system	FAT12, FAT16, FAT32
MP3 decoding format	MPEG-1 & 2 Audio Layer 3, MPEG-2.5 Audio
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes encoded only) (Ver. 10.6 and earlier)
WAV	
WAV signal format	Linear PCM, MS ADPCM (.wav)
Sampling Frequency	Linear PCM:16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz MS ADPCM:22.05 kHz, 44.1 kHz

DivX

DivX decoding format	Home Theater Ver. 4.xx, 5.xx, 6.xx (Ultra & HD are excluded) (.avi, .divx)
Max Bit Rate	8 000 kbps
Max Frame Rate	30 fps(In case of resolution 720×480. MAX 25 fps in case of 720×576)
Audio Codec	MP2, MP3, Linear PCM/ MSAD PCM, AC-3
Decode Size	MAX :720(H) × 480(W), MIN: 48(H) × 48(W)

H.264

H.264 decoding format	Base Line Profile (.mp4)
Max Bit Rate	8 000 kbps
Max Frame Rate	30 fps
Audio Codec	AAC
Decode Size	MAX :720(H) × 1 280(W), MIN:48(H) × 48(W)

WMV

WMV decoding format	Main Profile (.wmv)
Max Bit Rate	8 000 kbps
Max Frame Rate	30 fps
Audio Codec	WMA
Decode Size	MAX :720(H) × 1 280(W), MIN:48(H) × 48(W)

• UC Type

MPEG-4

MPEG-4 video decoding format
.....Simple Profile L0/L1/L2/L3,
Advanced Simple Profile
(.mp4)
Max Bit Rate 8 000 kbps
Max Frame Rate..... 30 fps
Audio Codec AAC
Decode Size..... MAX :720(H) x 1 280(W),
MIN:48(H) x 48(W)

JPEG

JPEG decoding format
.....Base Line (.jpeg, .jpg, .jpe,
.jif)
Pixel Sampling 4:2:2, 4:2:0
Decode Size..... MAX:4 092(H) x 4 092(W),
MIN:16(H) x 16(W)
Max File Size..... 8 MByte

SD

Compatible physical format

..... Version 1.1

File system..... FAT12, FAT16, FAT32

MP3 decoding format MPEG-1 & 2 Audio Layer 3,
MPEG-2.5 Audio

WMA decoding format Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch
audio)
(Windows Media Player)

AAC decoding format MPEG-4 AAC (iTunes encoded
only)
(Ver. 10.6 and earlier)

WAV

WAV signal formatLinear PCM, MS ADPCM
(.wav)

Sampling Frequency

.....Linear PCM:16 kHz,
22.05 kHz, 24 kHz, 32 kHz,
44.1 kHz, 48 kHz
MS ADPCM:22.05 kHz,
44.1 kHz

DivX

DivX decoding format

..... Home Theater Ver. 4.xx, 5.xx,
6.xx (Ultra & HD are excluded)
(.avi, .divx)

Max Bit Rate 8 000 kbps

Max Frame Rate..... 30 fps(In case of resolution
720x480. MAX 25 fps in case
of 720x576)

Audio Codec MP2, MP3, Linear PCM/
MSAD PCM, AC-3

Decode Size..... MAX :720(H) x 480(W), MIN:
48(H) x 48(W)

H.264

H.264 decoding format

.....Base Line Profile (.mp4)

Max Bit Rate 8 000 kbps

Max Frame Rate..... 30 fps

Audio Codec AAC

Decode Size..... MAX :720(H) x 1 280(W),
MIN:48(H) x 48(W)

WMV

WMV decoding format

.....Main Profile (.wmv)

Max Bit Rate 8 000 kbps

Max Frame Rate..... 30 fps

Audio Codec WMA

Decode Size..... MAX :720(H) x 1 280(W),
MIN:48(H) x 48(W)

MPEG-4

MPEG-4 video decoding format
.....Simple Profile L0/L1/L2/L3,
Advanced Simple Profile
(.mp4)
Max Bit Rate 8 000 kbps
Max Frame Rate..... 30 fps
Audio Codec AAC
Decode Size..... MAX :720(H) x 1 280(W),
MIN:48(H) x 48(W)

JPEG

JPEG decoding format
.....Base Line (.jpeg, .jpg, .jpe,
.jif)
Pixel Sampling 4:2:2, 4:2:0
Decode Size..... MAX:4 092(H) x 4 092(W),
MIN:16(H) x 16(W)
Max File Size..... 8 MByte

FM tuner

Frequency range87.9 MHz to 107.9 MHz

Usable sensitivity 9 dBf (0.8 μ V/75 Ω , mono, S/N:
30 dB)

Signal-to-noise ratio 80 dB (digital broadcasting)
(IHF-A network)

Signal-to-noise ratio 72 dB (analog broadcasting)
(IHF-A network)

AM tuner

Frequency range 530 kHz to 1 710 kHz

Usable sensitivity 25 μ V (S/N: 20 dB)

Signal-to-noise ratio 80 dB (digital broadcasting)
(IHF-A network)

Signal-to-noise ratio 62 dB (analog broadcasting)
(IHF-A network)

Bluetooth

VersionBluetooth 3.0 certified

Output power +4 dBm Maximum
(Power class 2)

CEA2006 Specifications



Power output 14 W RMS x 4 Channels (4 Ω
and $\leq$ 1 % THD+N)

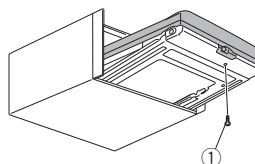
S/N ratio 91 dBA (reference: 1 W into
4 Ω)

Note

Specifications and the design are subject to
modifications without notice.

Fastening the front panel

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



① Screw BPZ20P060FTC (2 mm x 6 mm)

• EW5 Type

General

Rated power source	14.4 V DC
	(allowable voltage range: 10.8 V to 15.1 V DC)
Grounding system	Negative type
Maximum current consumption	10.0 A
Backup current	5 mA or less
Dimensions (W × H × D):	
DIN	
Chassis	178 mm × 100 mm × 157 mm
Nose	188 mm × 118 mm × 29 mm
D	
Chassis	178 mm × 100 mm × 165 mm
Nose	171 mm × 97 mm × 21 mm
Weight	2.1 kg

Display

Screen size/aspect ratio	6.95 inch wide/16:9
	(effective display area: 156.6 mm × 81.6 mm)
Pixels	1 152 000 (2 400 × 480)
Display method	TFT active matrix, driving type
Color system	NTSC/PAL/PAL-M/PAL-N/SECAM compatible
Durable temperature range (power off)	-20 °C to +80 °C

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 (2 Ω for 1 ch) allowable)
Preout maximum output level	4.0 V
Equalizer (8-Band Graphic Equalizer):	
Frequency	40 Hz/80 Hz/200 Hz/400 Hz/1 kHz/2.5 kHz/8 kHz/10 kHz
Gain	±12 dB
HPF:	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/125 Hz
Slope	-12 dB/oct
Subwoofer (mono):	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/125 Hz
Slope	-18 dB/oct
Gain	+6 dB to -24 dB
Phase	Normal/Reverse
Bass boost:	
Gain	+12 dB to 0 dB

DVD Player

System	DVD video, Video CD, CD, WMA, MP3, AAC, DivX, MPEG player
Usable discs	DVD video, Video CD, CD, CD-R/RW, DVD-R/RW/R DL
Region number	2
Frequency response	5 Hz to 44 000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio	96 dB (1 kHz) (IEC-A network) (RCA level)
Output level:	
Video	1.0 Vp-p/75 Ω (±0.2 V)
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 (2 ch audio) (Windows Media Player)
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AAC decoding format	MPEG-4 AAC (iTunes encoded only) (Ver. 10.6 and earlier)
WAV	
WAV signal format	Linear PCM, MS ADPCM (.wav)
Sampling Frequency	Linear PCM: 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz MS ADPCM: 22.05 kHz, 44.1 kHz
DivX	
DivX decoding format	Home Theater Ver. 4.xx, 5.xx, 6.xx (Ultra & HD are excluded) (.avi, .divx)
Max Bit Rate	8 000 kbps
Max Frame Rate	30 fps (In case of resolution 720×480. MAX 25 fps in case of 720×576)
Audio Codec	MP2, MP3, Linear PCM/MSAD PCM, AC-3
Decode Size	MAX: 720(H) × 480(W), MIN: 48(H) × 48(W)

A

• EW5 Type

H.264

H.264 decoding format
 Base Line Profile (.mp4)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX:720(H) x 1 280(W),
 MIN:48(H) x 48(W)

WMV

WMV decoding format
 Main Profile (.wmv)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec WMA
 Decode Size..... MAX:720(H) x 1 280(W),
 MIN:48(H) x 48(W)

B

MPEG-4

MPEG-4 video decoding format
 Simple Profile L0/L1/L2/L3,
 Advanced Simple Profile
 (.mp4)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX:720(H) x 1 280(W),
 MIN:48(H) x 48(W)

C

JPEG

JPEG decoding format
 Base Line (.jpeg, .jpg, .jpe,
 .jif)
 Pixel Sampling 4:2:2, 4:2:0
 Decode Size..... MAX:4 092(H) x 4 092(W),
 MIN:16(H) x 16(W)
 Max File Size..... 8 MByte

SD

Compatible physical format
 Version 1.1
 File system..... FAT12, FAT16, FAT32
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 MPEG-2.5 Audio
 WMA decoding format Ver. 7, 7.1, 8, 9, 10, 11, 12
 (2 ch audio)
 (Windows Media Player)
 AAC decoding format..... MPEG-4 AAC (iTunes en-
 coded only)
 (Ver. 10.6 and earlier)

D

WAV

WAV signal format..... Linear PCM, MS ADPCM
 (.wav)
 Sampling Frequency.... Linear PCM:16 kHz,
 22.05 kHz, 24 kHz, 32 kHz,
 44.1 kHz, 48 kHz
 MS ADPCM:22.05 kHz,
 44.1 kHz

E

DivX

DivX decoding format
 Home Theater Ver. 4.xx, 5.xx,
 6.xx (Ultra & HD are ex-
 cluded) (.avi, .divx)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps(In case of resolution
 720×480. MAX 25 fps in
 case of 720×576)
 Audio Codec MP2, MP3, Linear PCM/
 MSAD PCM, AC-3
 Decode Size..... MAX:720(H) x 480(W), MIN:
 48(H) x 48(W)

F

H.264

H.264 decoding format
 Base Line Profile (.mp4)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX:720(H) x 1 280(W),
 MIN:48(H) x 48(W)

WMV

WMV decoding format
 Main Profile (.wmv)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec WMA
 Decode Size..... MAX:720(H) x 1 280(W),
 MIN:48(H) x 48(W)

MPEG-4

MPEG-4 video decoding format
 Simple Profile L0/L1/L2/L3,
 Advanced Simple Profile
 (.mp4)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX:720(H) x 1 280(W),
 MIN:48(H) x 48(W)

JPEG

JPEG decoding format
 Base Line (.jpeg, .jpg, .jpe,
 .jif)
 Pixel Sampling 4:2:2, 4:2:0
 Decode Size..... MAX:4 092(H) x 4 092(W),
 MIN:16(H) x 16(W)
 Max File Size..... 8 MByte

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)

MW tuner

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

LW tuner

Frequency range..... 153 kHz to 281 kHz
 Usable sensitivity..... 28 μV (S/N: 20 dB)
 Signal-to-noise ratio 62 dB (IEC-A network)

Bluetooth

Version Bluetooth 3.0 certified
 Output power +4 dBm Maximum
 (Power class 2)

Note

Specifications and the design are subject to mod-
 ifications without notice.

• UW5 Type

Общие

Номинальный источник питания	14,4 В постоянного тока (допустимый диапазон напряжения: от 10,8 В до 15,1 В постоянного тока)
Система заземления	Заземление отрицательного полюса
Максимальный потребляемый ток	10,0 А
Backup current	5 mA or less
Размеры (Ш × В × Г):	
DIN	
Шасси	178 мм × 100 мм × 157 мм
Передняя панель	188 мм × 118 мм × 29 мм
D	
Шасси	178 мм × 100 мм × 165 мм
Передняя панель	171 мм × 97 мм × 21 мм
Масса	2,1 кг

Дисплей

Размер экрана/соотношение	6,95 дюйм ширины/16:9 (эффективная площадь изображения: 156,6 мм × 81,6 мм)
Пиксели	1 152 000 (2 400 × 480)
Тип технологии дисплея	активная матрица TFT управляющего типа
Система цветопередачи	совместима с NTSC/PAL/PAL-M/PAL-N/SECAM
Диапазон допустимых температур хранения (при выключенном питании)	от -20 °C до +80 °C

Аудио

Максимальная выходная мощность	50 Вт × 4 70 Вт × 1/2 Ω (для сабвуфера)
Номинальная выходная мощность	22 Вт × 4 (от 50 Гц до 15 000 Гц, суммарное значение коэффициента нелинейных искажений 5 %, нагрузка 4 Ω для обоих каналов)
Сопrotивление нагрузки	4 Ω (допустимо 4 Ω – 8 Ω (2 Ω на 1 канал))
Максимальная выходная мощность	4,0 В
Эквалайзер (8-полосный графический эквалайзер):	
Частота	40 Гц/80 Гц/200 Гц/400 Гц/1 кГц/2,5 кГц/8 кГц/10 кГц
Усиление	±12 дБ
HPF:	
Частота	50 Гц/63 Гц/80 Гц/100 Гц/125 Гц
Крутизна характеристики	-12 дБ/окт
Сабвуфер (моно):	
Частота	50 Гц/63 Гц/80 Гц/100 Гц/125 Гц

Крутизна характеристики

Крутизна характеристики	-18 дБ/окт
Усиление	+6 дБ до -24 дБ
Фаза	Нормальная/Обратная
Усиление нижних звуковых частот:	
Усиление	от +12 дБ до 0 дБ

Проигрыватель DVD

Система	проигрыватель DVD video, Video CD, CD, WMA, MP3, AAC, DivX, MPEG
Используемые диски	DVD video, Video CD, CD, CD-R/RW, DVD-R/RW/R DL
Код региона	5
Амплитудно-частотная характеристика	от 5 до 44 000 Гц (для дисков DVD при частоте дискретизации 96 кГц)
Отношение сигнал/шум	96 дБ (1 кГц) (сеть IEC-A) (уровень RCA)
Выходная мощность:	
Видео	1,0 Вp-p/75 Ω (±0,2 В)
Число каналов	2 (стерео)
Формат декодирования файлов MP3	MPEG-1 и 2 Audio Layer 3
Формат декодирования файлов WMA	Версии 7, 7.1, 8, 9, 10, 11, 12 (двухканальный звук) (Windows Media Player)
Формат декодирования файлов AAC	MPEG-4 AAC (только кодированных с помощью iTunes) (.m4a) (Версии 10.6 и более ранних)
Формат декодирования файлов DivX	Home Theater версий 3, 4, 5.2, 6 (.avi, .divx)
Формат декодирования видеофайлов MPEG	MPEG-1 (.mpg, .mpeg, .dat) MPEG-2 PS (.mpg, .mpeg) MPEG-4 Part2 (Visual), MS-MPEG-4 Ver. 3 (.avi)

USB

Стандартная спецификация USB	USB 1.1, USB 2.0 высокоскоростной
Максимальный ток питания	1,0 А
Класс USB	MSC (Mass Storage Class) iPod (Audio Class, HID Class)
Файловая система	FAT12, FAT16, FAT32
Формат декодирования файлов MP3	MPEG-1 и 2 Audio Layer 3, MPEG-2.5 Audio
Формат декодирования файлов WMA	Версии 7, 7.1, 8, 9, 10, 11, 12 (двухканальный звук) (Windows Media Player)
Формат декодирования файлов AAC	MPEG-4 AAC (только кодированных с помощью iTunes) (Версии 10.6 и более ранних)
WAV	
Формат сигнала WAV	Linear PCM, MS ADPCM (.wav)

A

• UW5 Type

Частота дискретизации

..... Линейная ИКМ:16 кГц,
22,05 кГц, 24 кГц, 32 кГц,
44,1 кГц, 48 кГц
MS ADPCM: 22,05 кГц,
44,1 кГц

■

DivX

Формат декодирования файлов DivX

..... Home Theater версий 4.xx,
5.xx, 6.xx (кроме Ultra и HD)
(.avi, .divx)

Максимальная скорость передачи данных

..... 8 000 кбит/с

B

Максимальная частота кадров

..... 30 кадров/с (при разреше-
нии 720×480. Не более
25 кадров/с при 720×576)

Аудиокодек MP2, MP3, линейная
PCM/MSAD PCM, AC-3

Размер при декодировании

..... макс.:720(В) x 480(Ш),
мин.:48(В) x 48(Ш)

H.264

Формат декодирования H.264

..... Base Line Profile (.mp4)

Максимальная скорость передачи данных

..... 8 000 кбит/с

C

Максимальная частота кадров

..... 30 кадров/с

Аудиокодек AAC

Размер при декодировании

..... макс.:720(В) x 1 280(Ш),
мин.:48(В) x 48(Ш)

WMV

Формат декодирования файлов WMV

..... Main Profile (.wmv)

Максимальная скорость передачи данных

..... 8 000 кбит/с

Максимальная частота кадров

..... 30 кадров/с

Аудиокодек WMA

Размер при декодировании

..... макс.:720(В) x 1 280(Ш),
мин.:48(В) x 48(Ш)

D

MPEG-4

Формат декодирования видеофайлов MPEG-4

..... Simple Profile L0/L1/L2/L3,
Advanced Simple Profile
(.mp4)

Максимальная скорость передачи данных

..... 8 000 кбит/с

Максимальная частота кадров

..... 30 кадров/с

Аудиокодек AAC

Размер при декодировании

..... макс.:720(В) x 1 280(Ш),
мин.:48(В) x 48(Ш)

E

JPEG

Формат декодирования файлов JPEG

..... Base Line (.jpeg, .jpg, .jpe,
.jif)

Дискретизация пикселей

..... 4:2:2, 4:2:0

Размер при декодировании

..... макс.:4 092(В) x 4 092(Ш),
мин.:16(В) x 16(Ш)

Максимальный размер файла

..... 8 Мб

F

SD

Поддерживаемый физический формат

..... Версия 1.1

Файловая система FAT12, FAT16, FAT32

Формат декодирования файлов MP3

..... MPEG-1 и 2 Audio Layer 3,
MPEG-2.5 Audio

Формат декодирования файлов WMA

..... Версии 7, 7.1, 8, 9, 10, 11, 12
(двухканальный звук)
(Windows Media Player)

Формат декодирования файлов AAC

..... MPEG-4 AAC (только коди-
рованных с помощью
iTunes)
(Версии 10.6 и более ран-
них)

WAV

Формат сигнала WAV

..... Linear PCM, MS ADPCM
(.wav)

Частота дискретизации

..... Линейная ИКМ:16 кГц,
22,05 кГц, 24 кГц, 32 кГц,
44,1 кГц, 48 кГц
MS ADPCM: 22,05 кГц,
44,1 кГц

DivX

Формат декодирования файлов DivX

..... Home Theater версий 4.xx,
5.xx, 6.xx (кроме Ultra и HD)
(.avi, .divx)

Максимальная скорость передачи данных

..... 8 000 кбит/с

Максимальная частота кадров

..... 30 кадров/с (при разреше-
нии 720×480. Не более
25 кадров/с при 720×576)

Аудиокодек MP2, MP3, линейная
PCM/MSAD PCM, AC-3

Размер при декодировании

..... макс.:720(В) x 480(Ш),
мин.:48(В) x 48(Ш)

H.264

Формат декодирования H.264

..... Base Line Profile (.mp4)

Максимальная скорость передачи данных

..... 8 000 кбит/с

Максимальная частота кадров

..... 30 кадров/с

Аудиокодек AAC

Размер при декодировании

..... макс.:720(В) x 1 280(Ш),
мин.:48(В) x 48(Ш)

WMV

Формат декодирования файлов WMV

..... Main Profile (.wmv)

Максимальная скорость передачи данных

..... 8 000 кбит/с

Максимальная частота кадров

..... 30 кадров/с

Аудиокодек WMA

Размер при декодировании

..... макс.:720(В) x 1 280(Ш),
мин.:48(В) x 48(Ш)

• UW5 Type

MPEG-4

Формат декодирования видеофайлов MPEG-4
..... Simple Profile L0/L1/L2/L3,
Advanced Simple Profile
(.mp4)
Максимальная скорость передачи данных
..... 8 000 кбит/с
Максимальная частота кадров
..... 30 кадров/с
Аудиокодек AAC
Размер при декодировании
..... макс.:720(В) x 1 280(Ш),
мин.:48(В) x 48(Ш)

JPEG

Формат декодирования файлов JPEG
..... Base Line (.jpeg, .jpg, .jpe,
.jfif)
Дискретизация пикселей
..... 4:2:2, 4:2:0
Размер при декодировании
..... макс.:4 092(В) x 4 092(Ш),
мин.:16(В) x 16(Ш)
Максимальный размер файла
..... 8 МБ

FM-тюнер

Диапазон частот от 87,5 МГц до 108,0 МГц
Полезная чувствительность
..... 9 дБФ (0,8 мкВ/75 Ω, моно,
отношение сигнал/шум:
30 дБ)
Отношение сигнал/шум
..... 72 дБ (сеть IEC-A)

MW-тюнер

Диапазон частот от 531 кГц до 1 602 кГц
(9 кГц)
Полезная чувствительность
..... 25 мкВ (отношение сигнал/
шум: 20 дБ)
Отношение сигнал/шум
..... 62 дБ (сеть IEC-A)

LW-тюнер

Диапазон частот от 153 кГц до 281 кГц
Полезная чувствительность
..... 28 мкВ (отношение сигнал/
шум: 20 дБ)

Отношение сигнал/шум

..... 62 дБ (сеть IEC-A)

Bluetooth

Версия Bluetooth 3.0 certified
Выходная мощность +4 дБм макс.
(Класс мощности 2)

Примечание:

В соответствии со статьей 5 закона Российской Федерации «О защите прав потребителей» и постановлением правительства Российской Федерации № 720 от 16.06.97 компания Pioneer Europe NV оговаривает следующий срок службы изделий, официально поставляемых на российский рынок.
Автомобильная электроника: 6 лет
Прочие изделия (наушники, микрофоны и т.п.): 5 лет

Примечания

- Характеристики и конструкция могут быть изменены без предварительного уведомления.
- Данное устройство произведено в Таиланде.

A

• RC Type

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 mA or less
Dimensions (W × H × D):	
D	
Chassis	178 mm × 100 mm × 165 mm
Nose	171 mm × 97 mm × 21 mm
Weight	2.1 kg

Display

Screen size/aspect ratio ...	6.95 inch wide/16:9 (effective display area: 156.6 mm × 81.6 mm)
Pixels	1 152 000 (2 400 × 480)
Display method	TFT active matrix, driving type
Color system	NTSC/PAL/PAL-M/PAL-N/SECAM compatible
Durable temperature range (power off)	−20 °C to +80 °C

C

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 (2 Ω for 1 ch) allowable)
Preout maximum output level	4.0 V
Equalizer (8-Band Graphic Equalizer):	
Frequency	40 Hz/80 Hz/200 Hz/400 Hz/1 kHz/2.5 kHz/8 kHz/10 kHz
Gain	±12 dB
HPF:	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/125 Hz
Slope	−12 dB/oct
Subwoofer (mono):	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/125 Hz
Slope	−18 dB/oct
Gain	+6 dB to −24 dB
Phase	Normal/Reverse
Bass boost:	
Gain	+12 dB to 0 dB

E

F

DVD Player

System	DVD video, Video CD, CD, WMA, MP3, AAC, DivX, MPEG player
Usable discs	DVD video, Video CD, CD, CD-R/RW, DVD-R/RW/R DL
Region number	3
Frequency response	5 Hz to 44 000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio	96 dB (1 kHz) (IEC-A network) (RCA level)
Output level:	
Video	1.0 Vp-p/75 Ω (±0.2 V)
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 (2 ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes encoded only) (.m4a) (Ver. 10.6 and earlier)
DivX decoding format	Home Theater Ver. 3, 4, 5.2, 6 (.avi, .divx)
MPEG video decoding format	MPEG-1 (.mpg, .mpeg, .dat) MPEG-2 PS (.mpg, .mpeg) MPEG-4 Part2 (Visual), MS-MPEG-4 Ver. 3 (.avi)

USB

USB standard specification	USB 1.1, USB 2.0 high speed
Maximum current supply	1.0 A
USB Class	MSC (Mass Storage Class) iPod (Audio Class, HID Class)
File system	FAT12, FAT16, FAT32
MP3 decoding format	MPEG-1 & 2 Audio Layer 3, MPEG-2.5 Audio
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes encoded only) (Ver. 10.6 and earlier)

WAV

WAV signal format	Linear PCM, MS ADPCM (.wav)
Sampling Frequency	Linear PCM: 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz MS ADPCM: 22.05 kHz, 44.1 kHz

DivX

DivX decoding format	Home Theater Ver. 4.xx, 5.xx, 6.xx (Ultra & HD are excluded) (.avi, .divx)
Max Bit Rate	8 000 kbps
Max Frame Rate	30 fps (In case of resolution 720×480. MAX 25 fps in case of 720×576)
Audio Codec	MP2, MP3, Linear PCM/MSAD PCM, AC-3
Decode Size	MAX : 720(H) × 480(W), MIN: 48(H) × 48(W)

• RC Type

H.264

H.264 decoding format
Base Line Profile (.mp4)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX :720(H) x 1 280(W),
 MIN:48(H) x 48(W)

WMV

WMV decoding format
 Main Profile (.wmv)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec WMA
 Decode Size..... MAX :720(H) x 1 280(W),
 MIN:48(H) x 48(W)

MPEG-4

MPEG-4 video decoding format
Simple Profile L0/L1/L2/L3,
 Advanced Simple Profile
 (.mp4)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX :720(H) x 1 280(W),
 MIN:48(H) x 48(W)

JPEG

JPEG decoding format
Base Line (.jpeg, .jpg, .jpe,
 .jfif)
 Pixel Sampling4:2:2, 4:2:0
 Decode Size..... MAX:4 092(H) x 4 092(W),
 MIN:16(H) x 16(W)
 Max File Size..... 8 MByte

SD

Compatible physical format

..... Version 1.1
 File system..... FAT12, FAT16, FAT32
 MP3 decoding format MPEG-1 & 2 Audio Layer 3,
 MPEG-2.5 Audio
 WMA decoding format Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch
 audio)
 (Windows Media Player)
 AAC decoding format MPEG-4 AAC (iTunes encoded
 only)
 (Ver. 10.6 and earlier)

WAV

WAV signal format Linear PCM, MS ADPCM
 (.wav)
 Sampling Frequency
Linear PCM:16 kHz,
 22.05 kHz, 24 kHz, 32 kHz,
 44.1 kHz, 48 kHz
 MS ADPCM:22.05 kHz,
 44.1 kHz

DivX

DivX decoding format
 Home Theater Ver. 4.xx, 5.xx,
 6.xx (Ultra & HD are excluded)
 (.avi, .divx)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps(In case of resolution
 720x480. MAX 25 fps in case
 of 720x576)
 Audio Codec MP2, MP3, Linear PCM/
 MSAD PCM, AC-3
 Decode Size..... MAX :720(H) x 480(W), MIN:
 48(H) x 48(W)

H.264

H.264 decoding format
Base Line Profile (.mp4)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX :720(H) x 1 280(W),
 MIN:48(H) x 48(W)

WMV

WMV decoding format
Main Profile (.wmv)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec WMA
 Decode Size..... MAX :720(H) x 1 280(W),
 MIN:48(H) x 48(W)

MPEG-4

MPEG-4 video decoding format
Simple Profile L0/L1/L2/L3,
 Advanced Simple Profile
 (.mp4)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX :720(H) x 1 280(W),
 MIN:48(H) x 48(W)

JPEG

JPEG decoding format
Base Line (.jpeg, .jpg, .jpe,
 .jfif)
 Pixel Sampling4:2:2, 4:2:0
 Decode Size..... MAX:4 092(H) x 4 092(W),
 MIN:16(H) x 16(W)
 Max File Size..... 8 MByte

FM tuner

Frequency range87.5 MHz to 108.0 MHz
 Usable sensitivity 9 dBf (0.8 μ V/75 Ω , mono, S/N:
 30 dB)
 Signal-to-noise ratio 72 dB (IEC-A network)

AM tuner

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

Bluetooth

VersionBluetooth 3.0 certified
 Output power +4 dBm Maximum
 (Power class 2)

Note

Specifications and the design are subject to
 modifications without notice.

A

• RD Type

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 mA or less
Dimensions (W × H × D):	
D	
Chassis	178 mm × 100 mm × 165 mm
Nose	171 mm × 97 mm × 21 mm
Weight	2.1 kg

Display

Screen size/aspect ratio ...	6.95 inch wide/16:9 (effective display area: 156.6 mm × 81.6 mm)
Pixels	1 152 000 (2 400 × 480)
Display method	TFT active matrix, driving type
Color system	NTSC/PAL/PAL-M/PAL-N/SECAM compatible
Durable temperature range (power off)	−20 °C to +80 °C

C

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 (2 Ω for 1 ch) allowable)
Preout maximum output level	4.0 V
Equalizer (8-Band Graphic Equalizer):	
Frequency	40 Hz/80 Hz/200 Hz/400 Hz/1 kHz/2.5 kHz/8 kHz/10 kHz
Gain	±12 dB
HPF:	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/125 Hz
Slope	−12 dB/oct
Subwoofer (mono):	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/125 Hz
Slope	−18 dB/oct
Gain	+6 dB to −24 dB
Phase	Normal/Reverse
Bass boost:	
Gain	+12 dB to 0 dB

E

F

DVD Player

System	DVD video, Video CD, CD, WMA, MP3, AAC, DivX, MPEG player
Usable discs	DVD video, Video CD, CD, CD-R/RW, DVD-R/RW/R DL
Region number	4
Frequency response	5 Hz to 44 000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio	96 dB (1 kHz) (IEC-A network) (RCA level)
Output level:	
Video	1.0 Vp-p/75 Ω (±0.2 V)
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 (2 ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes encoded only) (.m4a) (Ver. 10.6 and earlier)
DivX decoding format	Home Theater Ver. 3, 4, 5.2, 6 (.avi, .divx)
MPEG video decoding format	MPEG-1 (.mpg, .mpeg, .dat) MPEG-2 PS (.mpg, .mpeg) MPEG-4 Part2 (Visual), MS-MPEG-4 Ver. 3 (.avi)

USB

USB standard specification	USB 1.1, USB 2.0 high speed
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USB Class	MSC (Mass Storage Class) iPod (Audio Class, HID Class)
File system	FAT12, FAT16, FAT32
MP3 decoding format	MPEG-1 & 2 Audio Layer 3, MPEG-2.5 Audio
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes encoded only) (Ver. 10.6 and earlier)
WAV	
WAV signal format	Linear PCM, MS ADPCM (.wav)
Sampling Frequency	Linear PCM: 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz MS ADPCM: 22.05 kHz, 44.1 kHz

DivX

DivX decoding format	Home Theater Ver. 4.xx, 5.xx, 6.xx (Ultra & HD are excluded) (.avi, .divx)
Max Bit Rate	8 000 kbps
Max Frame Rate	30 fps (In case of resolution 720×480. MAX 25 fps in case of 720×576)
Audio Codec	MP2, MP3, Linear PCM/MSAD PCM, AC-3
Decode Size	MAX : 720(H) × 480(W), MIN: 48(H) × 48(W)

• RD Type

H.264

H.264 decoding format
Base Line Profile (.mp4)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX :720(H) x 1 280(W),
 MIN:48(H) x 48(W)

WMV

WMV decoding format
Main Profile (.wmv)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec WMA
 Decode Size..... MAX :720(H) x 1 280(W),
 MIN:48(H) x 48(W)

MPEG-4

MPEG-4 video decoding format
Simple Profile L0/L1/L2/L3,
 Advanced Simple Profile
 (.mp4)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX :720(H) x 1 280(W),
 MIN:48(H) x 48(W)

JPEG

JPEG decoding format
Base Line (.jpeg, .jpg, .jpe,
 .jfif)
 Pixel Sampling4:2:2, 4:2:0
 Decode Size..... MAX:4 092(H) x 4 092(W),
 MIN:16(H) x 16(W)
 Max File Size..... 8 MByte

SD

Compatible physical format

..... Version 1.1
 File system..... FAT12, FAT16, FAT32
 MP3 decoding formatMPEG-1 & 2 Audio Layer 3,
 MPEG-2.5 Audio
 WMA decoding format Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch
 audio)
 (Windows Media Player)
 AAC decoding format MPEG-4 AAC (iTunes encoded
 only)
 (Ver. 10.6 and earlier)

WAV

WAV signal formatLinear PCM, MS ADPCM
 (.wav)
 Sampling Frequency
Linear PCM:16 kHz,
 22.05 kHz, 24 kHz, 32 kHz,
 44.1 kHz, 48 kHz
 MS ADPCM:22.05 kHz,
 44.1 kHz

DivX

DivX decoding format
 Home Theater Ver. 4.xx, 5.xx,
 6.xx (Ultra & HD are excluded)
 (.avi, .divx)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps(In case of resolution
 720x480. MAX 25 fps in case
 of 720x576)
 Audio Codec MP2, MP3, Linear PCM/
 MSAD PCM, AC-3
 Decode Size..... MAX :720(H) x 480(W), MIN:
 48(H) x 48(W)

H.264

H.264 decoding format
Base Line Profile (.mp4)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX :720(H) x 1 280(W),
 MIN:48(H) x 48(W)

WMV

WMV decoding format
Main Profile (.wmv)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec WMA
 Decode Size..... MAX :720(H) x 1 280(W),
 MIN:48(H) x 48(W)

MPEG-4

MPEG-4 video decoding format
Simple Profile L0/L1/L2/L3,
 Advanced Simple Profile
 (.mp4)
 Max Bit Rate 8 000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX :720(H) x 1 280(W),
 MIN:48(H) x 48(W)

JPEG

JPEG decoding format
Base Line (.jpeg, .jpg, .jpe,
 .jfif)
 Pixel Sampling 4:2:2, 4:2:0
 Decode Size..... MAX:4 092(H) x 4 092(W),
 MIN:16(H) x 16(W)
 Max File Size..... 8 MByte

FM tuner

Frequency range87.5 MHz to 108.0 MHz
 Usable sensitivity 9 dBf (0.8 μ V/75 Ω , mono, S/N:
 30 dB)
 Signal-to-noise ratio 72 dB (IEC-A network)

AM tuner

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

Bluetooth

VersionBluetooth 3.0 certified
 Output power +4 dBm Maximum
 (Power class 2)

Note

Specifications and the design are subject to
 modifications without notice.

A

• RI Type

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 mA or less
Dimensions (W × H × D):	
DIN	
Chassis	178 mm × 100 mm × 157 mm
Nose	188 mm × 118 mm × 29 mm
D	
Chassis	178 mm × 100 mm × 165 mm
Nose	171 mm × 97 mm × 21 mm
Weight	2.1 kg

B

D

C

Display

Screen size/aspect ratio ...	6.95 inch wide/16:9 (effective display area: 156.6 mm × 81.6 mm)
Pixels	1 152 000 (2 400 × 480)
Display method	TFT active matrix, driving type
Color system	NTSC/PAL/PAL-M/PAL-N/SECAM compatible
Durable temperature range (power off)	−20 °C to +80 °C

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 (2 Ω for 1 ch) allowable)
Preout maximum output level	4.0 V
Equalizer (8-Band Graphic Equalizer):	
Frequency	40 Hz/80 Hz/200 Hz/400 Hz/1 kHz/2.5 kHz/8 kHz/10 kHz
Gain	±12 dB
HPF:	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/125 Hz
Slope	−12 dB/oct
Subwoofer (mono):	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/125 Hz
Slope	−18 dB/oct
Gain	+6 dB to −24 dB
Phase	Normal/Reverse
Bass boost:	
Gain	+12 dB to 0 dB

D

E

F

DVD Player

System	DVD video, Video CD, CD, WMA, MP3, AAC, DivX, MPEG player
Usable discs	DVD video, Video CD, CD, CD-R/RW, DVD-R/RW/R DL
Region number	2
Frequency response	5 Hz to 44 000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio	96 dB (1 kHz) (IEC-A network) (RCA level)
Output level:	
Video	1.0 Vp-p/75Ω(±0.2 V)
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 (2 ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes encoded only) (.m4a) (Ver. 10.6 and earlier)
DivX decoding format	Home Theater Ver. 3, 4, 5.2, 6 (.avi, .divx)
MPEG video decoding format	MPEG-1 (.mpg, .mpeg, .dat) MPEG-2 PS (.mpg, .mpeg) MPEG-4 Part2 (Visual), MS-MPEG-4 Ver. 3 (.avi)

USB

USB standard specification	USB 1.1, USB 2.0 high speed
Maximum current supply	1.0 A
USB Class	MSC (Mass Storage Class) iPod (Audio Class, HID Class)
File system	FAT12, FAT16, FAT32
MP3 decoding format	MPEG-1 & 2 Audio Layer 3, MPEG-2.5 Audio
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes encoded only) (Ver. 10.6 and earlier)

WAV

WAV signal format ...	Linear PCM, MS ADPCM (.wav)
Sampling Frequency	Linear PCM: 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz MS ADPCM: 22.05 kHz, 44.1 kHz

DivX

DivX decoding format	Home Theater Ver. 4.xx, 5.xx, 6.xx (Ultra & HD are excluded) (.avi, .divx)
Max Bit Rate	8000 kbps
Max Frame Rate	30 fps (In case of resolution 720×480. MAX 25 fps in case of 720×576)
Audio Codec	MP2, MP3, Linear PCM/MSAD PCM, AC-3
Decode Size	MAX : 720(H) × 480(W), MIN: 48(H) × 48(W)

• RI Type

H.264

H.264 decoding format
Base Line Profile (.mp4)
 Max Bit Rate8000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX :720(H) x 1280(W),
 MIN:48(H) x 48(W)

WMV

WMV decoding format
Main Profile (.wmv)
 Max Bit Rate8000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec WMA
 Decode Size..... MAX :720(H) x 1280(W),
 MIN:48(H) x 48(W)

MPEG-4

MPEG-4 video decoding format
Simple Profile L0/L1/L2/L3,
Advanced Simple Profile
(.mp4)
 Max Bit Rate8000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX :720(H) x 1280(W),
 MIN:48(H) x 48(W)

JPEG

JPEG decoding format
Base Line (.jpeg, .jpg, .jpe,
jfif)
 Pixel Sampling4:2:2, 4:2:0
 Decode Size..... MAX:4 092(H) x 4 092(W),
 MIN:16(H) x 16(W)
 Max File Size..... 8 MByte

SD

Compatible physical format

.....Version 1.1
 File system..... FAT12, FAT16, FAT32
 MP3 decoding format MPEG-1 & 2 Audio Layer 3,
MPEG-2.5 Audio
 WMA decoding format Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch
audio)
(Windows Media Player)
 AAC decoding formatMPEG-4 AAC (iTunes encoded
only)
(Ver. 10.6 and earlier)

WAV

WAV signal formatLinear PCM, MS ADPCM
(.wav)
 Sampling Frequency
Linear PCM:16 kHz,
22.05 kHz, 24 kHz, 32 kHz,
44.1 kHz, 48 kHz
MS ADPCM:22.05 kHz,
44.1 kHz

DivX

DivX decoding format
Home Theater Ver. 4.xx, 5.xx,
6.xx (Ultra & HD are excluded)
(.avi, .divx)
 Max Bit Rate8000 kbps
 Max Frame Rate..... 30 fps(In case of resolution
720x480. MAX 25 fps in case
of 720x576)
 Audio Codec MP2, MP3, Linear PCM/
MSAD PCM, AC-3
 Decode Size..... MAX :720(H) x 480(W), MIN:
48(H) x 48(W)

H.264

H.264 decoding format
Base Line Profile (.mp4)
 Max Bit Rate 8000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX :720(H) x 1280(W),
 MIN:48(H) x 48(W)

WMV

WMV decoding format
Main Profile (.wmv)
 Max Bit Rate 8000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec WMA
 Decode Size..... MAX :720(H) x 1280(W),
 MIN:48(H) x 48(W)

MPEG-4

MPEG-4 video decoding format
Simple Profile L0/L1/L2/L3,
Advanced Simple Profile
(.mp4)
 Max Bit Rate8000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX :720(H) x 1280(W),
 MIN:48(H) x 48(W)

JPEG

JPEG decoding format
Base Line (.jpeg, .jpg, .jpe,
jfif)
 Pixel Sampling 4:2:2, 4:2:0
 Decode Size..... MAX:4 092(H) x 4 092(W),
 MIN:16(H) x 16(W)
 Max File Size..... 8 MByte

FM tuner

Frequency range87.5 MHz to 108.0 MHz
 Usable sensitivity 9 dBf (0.8 μ V/75 Ω , mono, S/N:
30 dB)
 Signal-to-noise ratio 72 dB (IEC-A network)

AM tuner

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

Bluetooth

VersionBluetooth 3.0 certified
 Output power +4 dBm Maximum
(Power class 2)

Note

Specifications and the design are subject to
 modifications without notice.

A

• ID Type

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 mA or less
Dimensions (W × H × D):	
D	
Chassis	178 mm × 100 mm × 165 mm
Nose	171 mm × 97 mm × 21 mm
Weight	2.1 kg

Display

Screen size/aspect ratio ...	176.5 mm wide/16:9 (effective display area: 156.6 mm × 81.6 mm)
Pixels	1 152 000 (2 400 × 480)
Display method	TFT active matrix, driving type
Color system	NTSC/PAL/PAL-M/PAL-N/SECAM compatible
Durable temperature range (power off)	−20 °C to +80 °C

C

Audio

Maximum power output ...	50 W × 4
Continuous power output	70 W × 1/2 Ω (for subwoofer)
.....	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 (2 Ω for 1 ch) allowable)
Preout maximum output level	4.0 V
Equalizer (8-Band Graphic Equalizer):	
Frequency	40 Hz/80 Hz/200 Hz/400 Hz/1 kHz/2.5 kHz/8 kHz/10 kHz
Gain	±12 dB
HPF:	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/125 Hz
Slope	−12 dB/oct
Subwoofer (mono):	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/125 Hz
Slope	−18 dB/oct
Gain	+6 dB to −24 dB
Phase	Normal/Reverse
Bass boost:	
Gain	+12 dB to 0 dB

E

F

DVD Player

System	DVD video, Video CD, CD, WMA, MP3, AAC, DivX, MPEG player
Usable discs	DVD video, Video CD, CD, CD-R/RW, DVD-R/RW/RDL
Region number	5
Frequency response	5 Hz to 44 000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio	96 dB (1 kHz) (IEC-A network) (RCA level)
Output level:	
Video	1.0 Vp-p/75 Ω (±0.2 V)
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 (2 ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes encoded only) (.m4a) (Ver. 10.6 and earlier)
DivX decoding format	Home Theater Ver. 3, 4, 5.2, 6 (.avi, .divx)
MPEG video decoding format	MPEG-1 (.mpg, .mpeg, .dat) MPEG-2 PS (.mpg, .mpeg) MPEG-4 Part2 (Visual), MS-MPEG-4 Ver. 3 (.avi)

USB

USB standard specification	USB 1.1, USB 2.0 high speed
Maximum current supply	1.0 A
USB Class	MSC (Mass Storage Class) iPod (Audio Class, HID Class)
File system	FAT12, FAT16, FAT32
MP3 decoding format	MPEG-1 & 2 Audio Layer 3, MPEG-2.5 Audio
WMA decoding format	Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes encoded only) (Ver. 10.6 and earlier)
WAV	
WAV signal format	Linear PCM, MS ADPCM (.wav)
Sampling Frequency	Linear PCM: 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz MS ADPCM: 22.05 kHz, 44.1 kHz

DivX

DivX decoding format	Home Theater Ver. 4.xx, 5.xx, 6.xx (Ultra & HD are excluded) (.avi, .divx)
Max Bit Rate	8000 kbps
Max Frame Rate	30 fps (In case of resolution 720×480. MAX 25 fps in case of 720×576)
Audio Codec	MP2, MP3, Linear PCM/MSAD PCM, AC-3
Decode Size	MAX : 720(H) × 480(W), MIN: 48(H) × 48(W)

• ID Type

H.264

H.264 decoding format
Base Line Profile (.mp4)
 Max Bit Rate 8000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX :720(H) x 1280(W),
 MIN:48(H) x 48(W)

WMV

WMV decoding format
Main Profile (.wmv)
 Max Bit Rate 8000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec WMA
 Decode Size..... MAX :720(H) x 1280(W),
 MIN:48(H) x 48(W)

MPEG-4

MPEG-4 video decoding format
Simple Profile L0/L1/L2/L3,
 Advanced Simple Profile
 (.mp4)
 Max Bit Rate 8000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX :720(H) x 1280(W),
 MIN:48(H) x 48(W)

JPEG

JPEG decoding format
Base Line (.jpeg, .jpg, .jpe,
 .jfif)
 Pixel Sampling 4:2:2, 4:2:0
 Decode Size..... MAX:4 092(H) x 4 092(W),
 MIN:16(H) x 16(W)
 Max File Size..... 8 MByte

SD

Compatible physical format

..... Version 1.1
 File system..... FAT12, FAT16, FAT32
 MP3 decoding format MPEG-1 & 2 Audio Layer 3,
 MPEG-2.5 Audio
 WMA decoding format Ver. 7, 7.1, 8, 9, 10, 11, 12 (2 ch
 audio)
 (Windows Media Player)
 AAC decoding format MPEG-4 AAC (iTunes encoded
 only)
 (Ver. 10.6 and earlier)

WAV

WAV signal formatLinear PCM, MS ADPCM
 (.wav)
 Sampling Frequency
Linear PCM:16 kHz,
 22.05 kHz, 24 kHz, 32 kHz,
 44.1 kHz, 48 kHz
 MS ADPCM:22.05 kHz,
 44.1 kHz

DivX

DivX decoding format
 Home Theater Ver. 4.xx, 5.xx,
 6.xx (Ultra & HD are excluded)
 (.avi, .divx)
 Max Bit Rate 8000 kbps
 Max Frame Rate..... 30 fps(In case of resolution
 720x480. MAX 25 fps in case
 of 720x576)
 Audio Codec MP2, MP3, Linear PCM/
 MSAD PCM, AC-3
 Decode Size..... MAX :720(H) x 480(W), MIN:
 48(H) x 48(W)

H.264

H.264 decoding format
Base Line Profile (.mp4)
 Max Bit Rate 8000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX :720(H) x 1280(W),
 MIN:48(H) x 48(W)

WMV

WMV decoding format
Main Profile (.wmv)
 Max Bit Rate 8000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec WMA
 Decode Size..... MAX :720(H) x 1280(W),
 MIN:48(H) x 48(W)

MPEG-4

MPEG-4 video decoding format
Simple Profile L0/L1/L2/L3,
 Advanced Simple Profile
 (.mp4)
 Max Bit Rate 8000 kbps
 Max Frame Rate..... 30 fps
 Audio Codec AAC
 Decode Size..... MAX :720(H) x 1280(W),
 MIN:48(H) x 48(W)

JPEG

JPEG decoding format
Base Line (.jpeg, .jpg, .jpe,
 .jfif)
 Pixel Sampling 4:2:2, 4:2:0
 Decode Size..... MAX:4 092(H) x 4 092(W),
 MIN:16(H) x 16(W)
 Max File Size..... 8 MByte

FM tuner

Frequency range87.5 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 530 kHz to 1 640 kHz (10 kHz)
 531 kHz to 1 602 kHz (9 kHz)
 Usable sensitivity 25 µV (S/N: 20 dB)
 Signal-to-noise ratio 62 dB (IEC-A network)

Bluetooth

VersionBluetooth 3.0 certified
 Output power +4 dBm Maximum
 (Power class 2)

Note

Specifications and the design are subject to
 modifications without notice.

1 2 3 4

2.2 DISC/CONTENT FORMAT

A



B



C

D

E

F

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

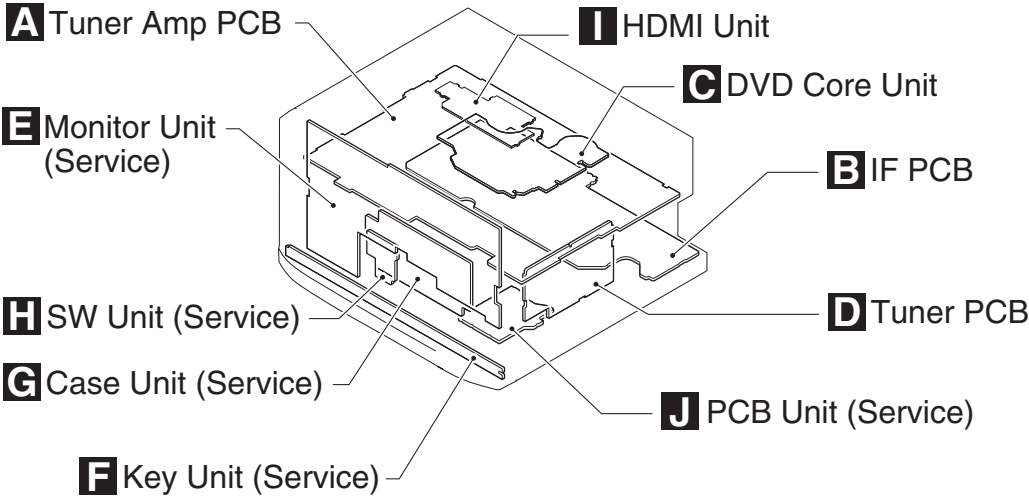
To keep the product quality after servicing, please confirm following check points.

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, video, audio and operations must be normal.
2	Flap-mecha	Check the operation of the flap mechanism.	The flap mechanism operation must be smooth without making the noise and scratches.
3	DVD	Measure playback error rates at the innermost and outermost tracks by using the test mode with the following disc. DVD test disc (TDV-582)	Deterioration of mecha-drive can be checked. The error rate must be less than the threshold value. (Refer to the chapter of DIAGNOSIS for the threshold value.)
4	DVD	Play back a DVD. (Menu operation; Title/chapter search)	Display, video, audio and operations must be normal.
5	CD	Play back a CD. (Track search)	Display, audio and operations must be normal.
6	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. * If the reception sensitivity is poorer than normal, the gasket on the FM/AM tuner unit may be damaged or lost.
7		Check whether no disc is inside the product.	The media used for the operating check must be ejected.
8		Appearance check	No scratches or dirt on its appearance after receiving it for service.

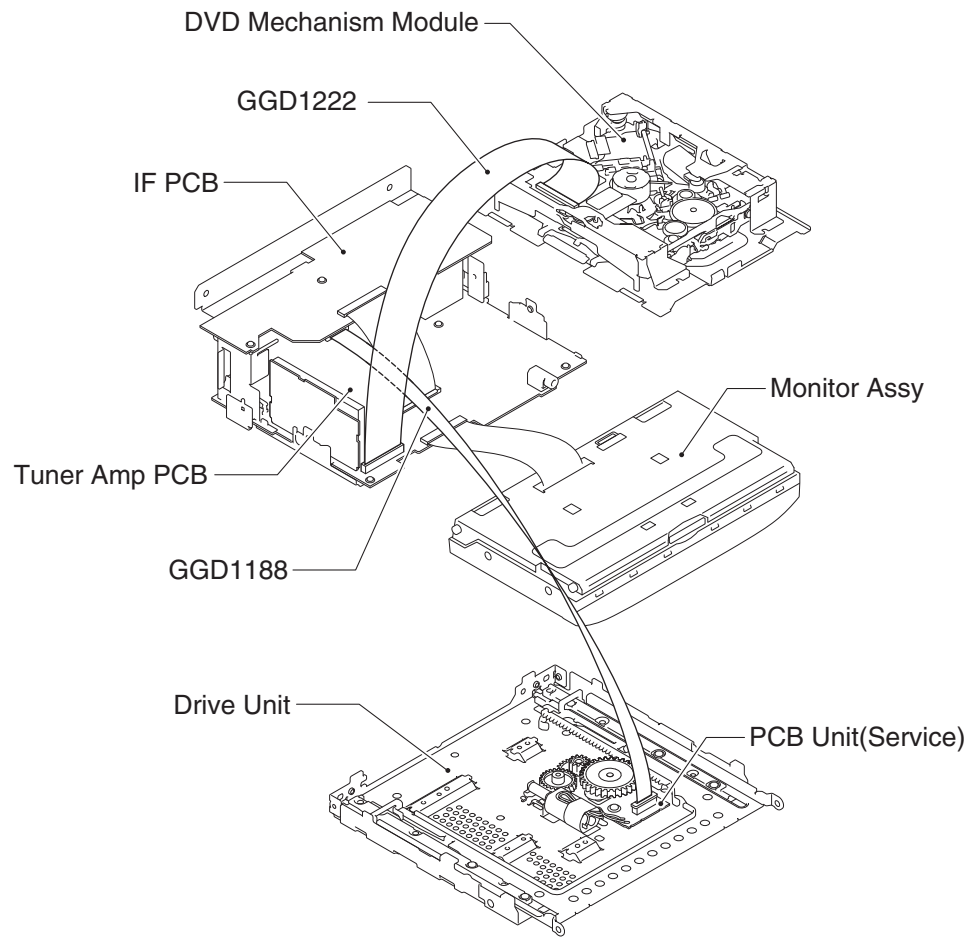
For check items concerning image and voice, please refer to the followings:

Check items concerning image	Check items concerning voice
Block-noise	Distortion
Crosscut noise	Noise
Dot noise	Low volume
Distorted image (Image skip)	High volume
Low brightness	Changes in level
Too bright	Pause of sound
Color fading	
Partial discoloration	

3.2 PCB LOCATIONS



A:AVH-X8500BHS/XNUC	Unit Number : YWX5033
B:AVH-X8500BT/XNEW5	Unit Name : DVD Core Unit
C:AVH-X8500BT/XNUW5	Unit Number : YXX5128
D:AVH-X8550BT/XNRC	Unit Name : Monitor Unit(Service)
E:AVH-X8550BT/XNRD	Unit Number : YXX5126
F:AVH-X8550BT/XNRI	Unit Name : Key Unit(Service)
G:AVH-X8590BT/XNID	Unit Number : YXX5127
Mother Unit(Service) (A)	Unit Name : Case Unit(Service)
Consists of	Unit Number : YXX5129
Tuner Amp PCB	Unit Name : SW Unit(Service)
IF PCB	Unit Number : YWM5608
Unit Number : YXX5120(A)	Unit Name : HDMI Unit
Unit Name : Mother Unit(Service) (A)	Unit Number : EXX2001
Mother Unit(Service) (B,C,D,E,F,G)	Unit Name : PCB Unit(Service)
Consists of	
Tuner Amp PCB	
IF PCB	
Tuner PCB	
Unit Number : YXX5118(B)	
Unit Number : YXX5119(C)	
Unit Number : YXX5121(D)	
Unit Number : YXX5122(E)	
Unit Number : YXX5123(F)	
Unit Number : YXX5124(G)	
Unit Name : Mother Unit(Service)	
(B,C,D,E,F,G)	



● Jigs List

Name	Jig No.	Remarks
Disc	TDV-582	Skew adjustment, Check points after servicing, Inspection method of Pickup Unit
Disc	TCD-782	Inspection method of Pickup Unit
30P FFC	GGD1222	DVD CORE UNIT <=> TUNER AMP PCB
10P FFC	GGD1188	PCB UNIT (SERVICE) <=> TUNER AMP PCB

● Grease List

Name	Jig No.	Remarks
Grease	GEM1024	DVD Mechanism Module, Drive Unit
Grease	GEM1038	DVD Mechanism Module
Grease	GEM1045	DVD Mechanism Module
Grease	GEM1043	Drive Unit

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
DVD pickup lenses	Cleaning liquid : GEM1004 Cleaning paper : GED-008

Portions to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008

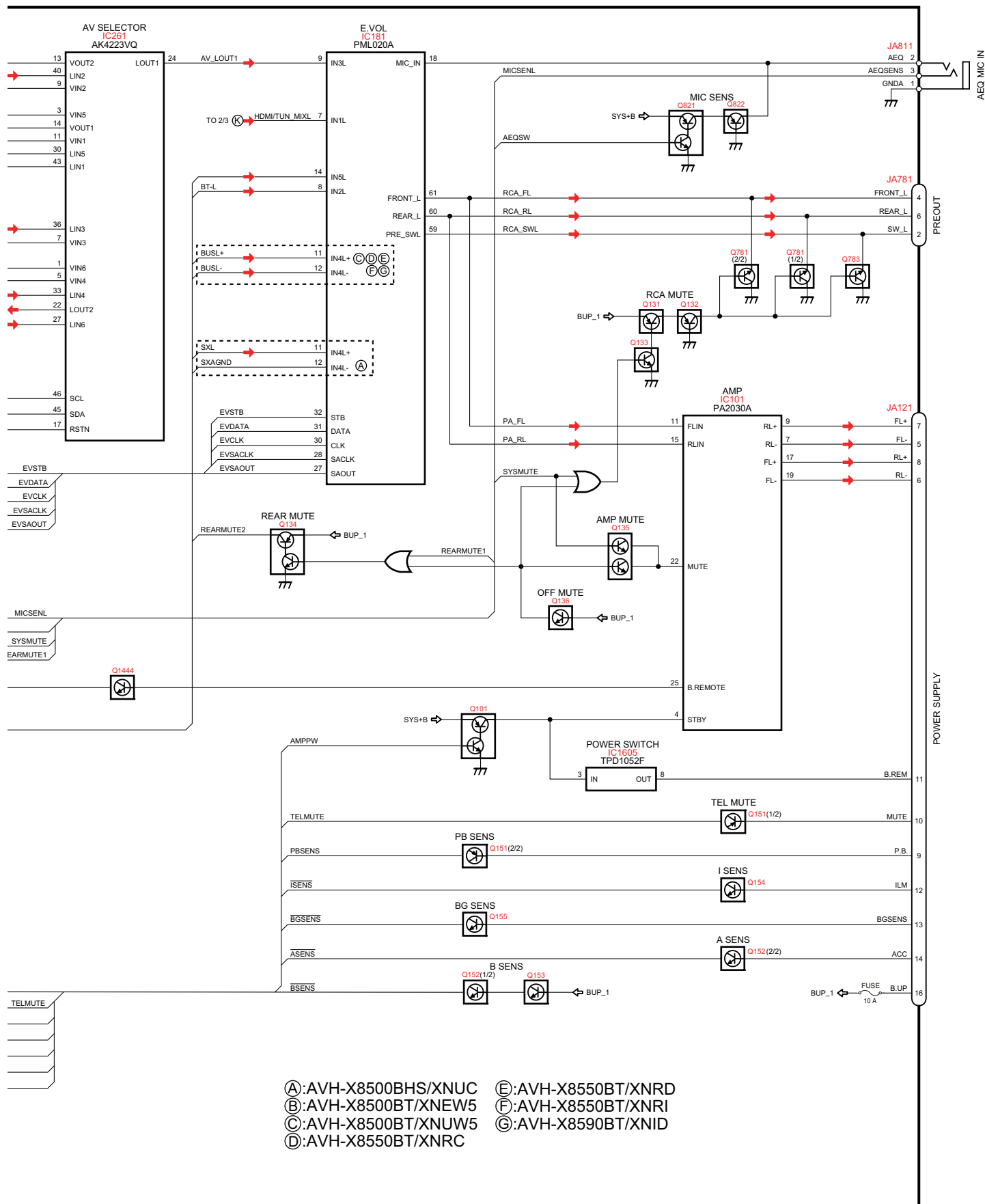
4.1 OVERALL CONNECTION DIAGRAM

A	AVH-X8500BHS/XNUIC
WIRING DIAGRAM: AVH-X8500BHS/XNUIC WIRED REMOTE: JA2041 (Pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) BT MIC: JA2111 (Pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) IP BUS: JA2071 (Pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) AUX: JA2011 (Pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) NAVI / iPod: (Pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100)	

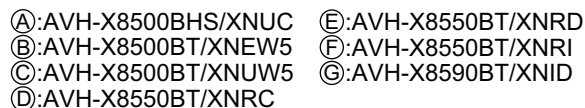


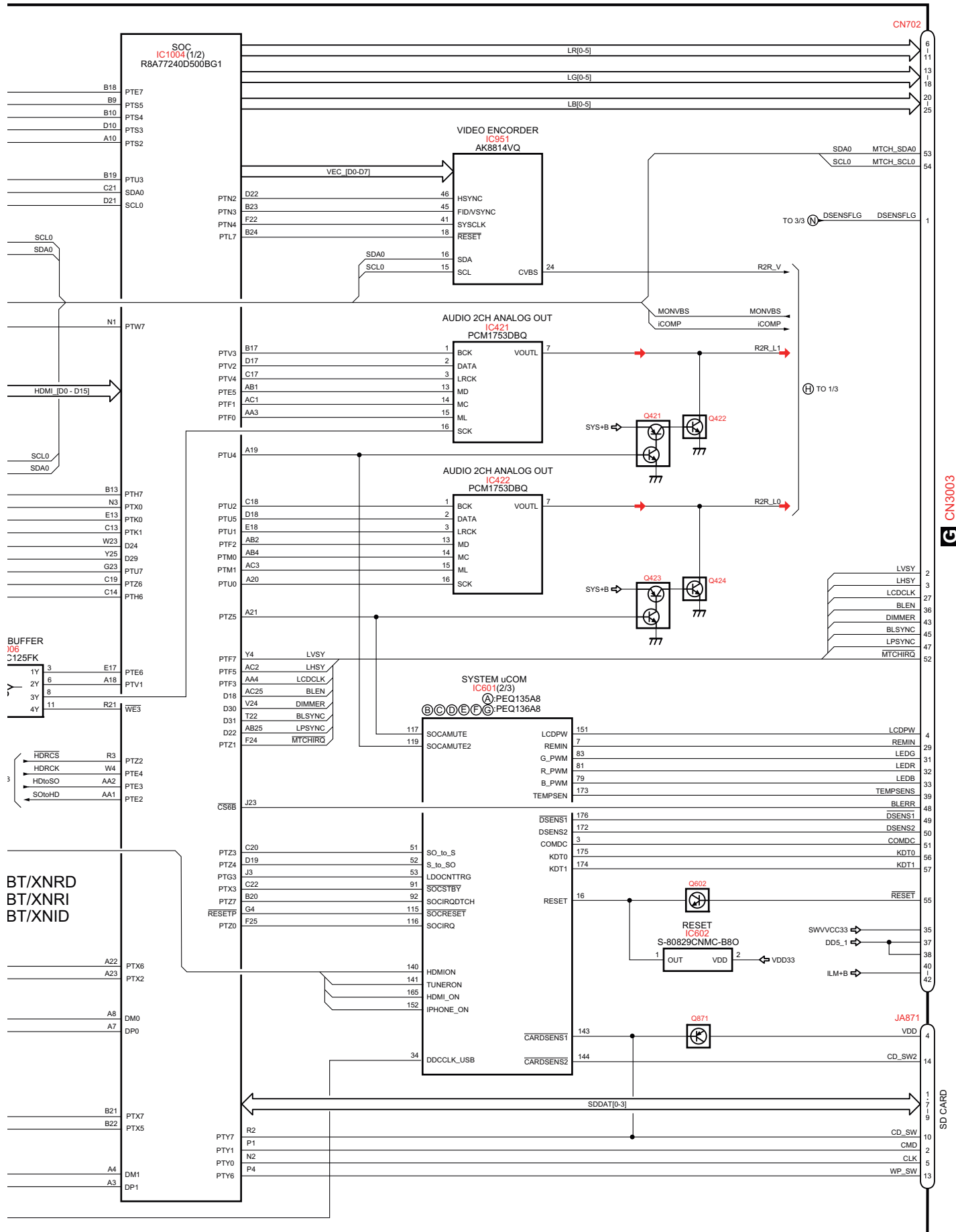
4





TUNER AMP PCB(2/3)





A TUNER AMP PCB(3/3)

A

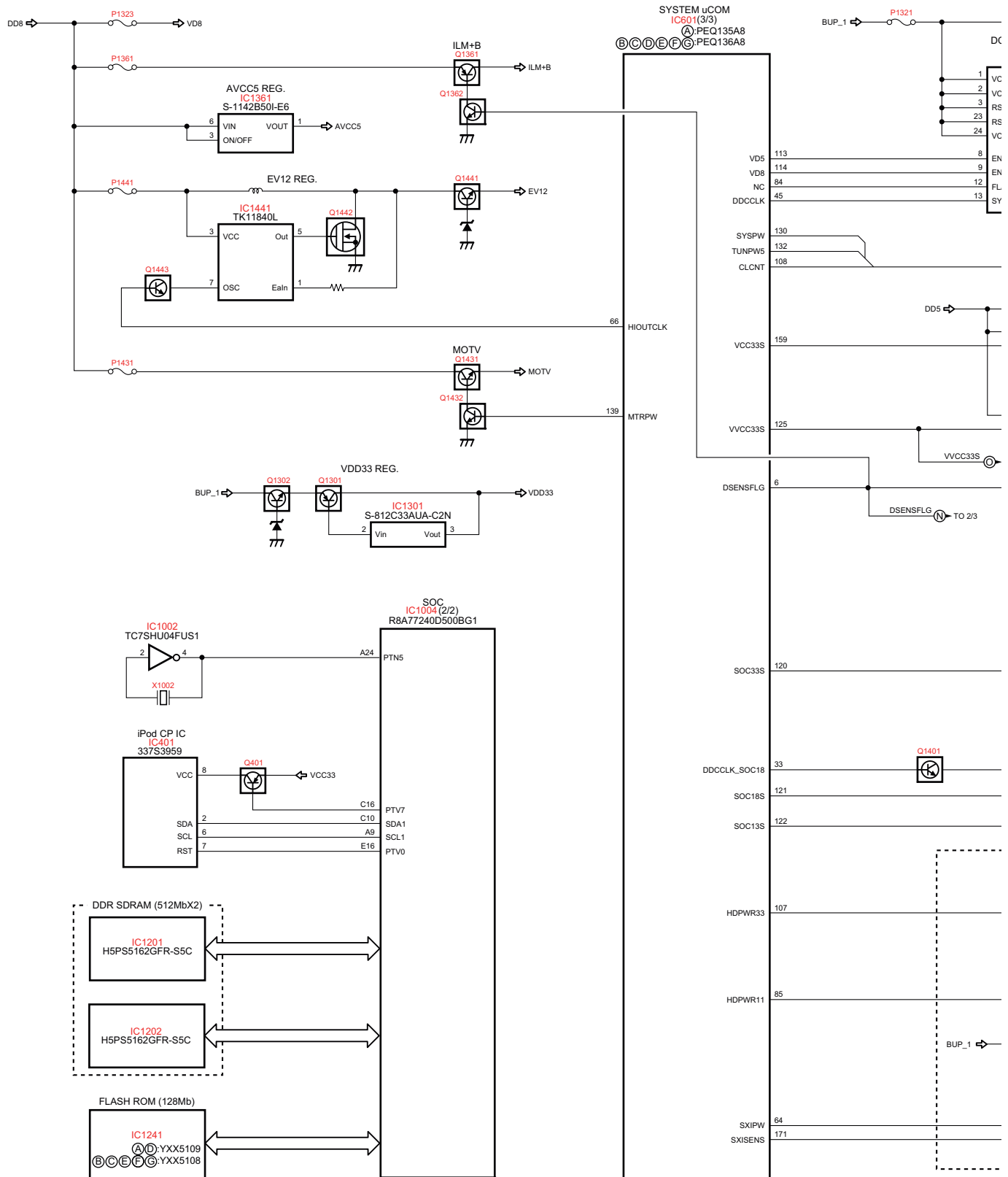
B

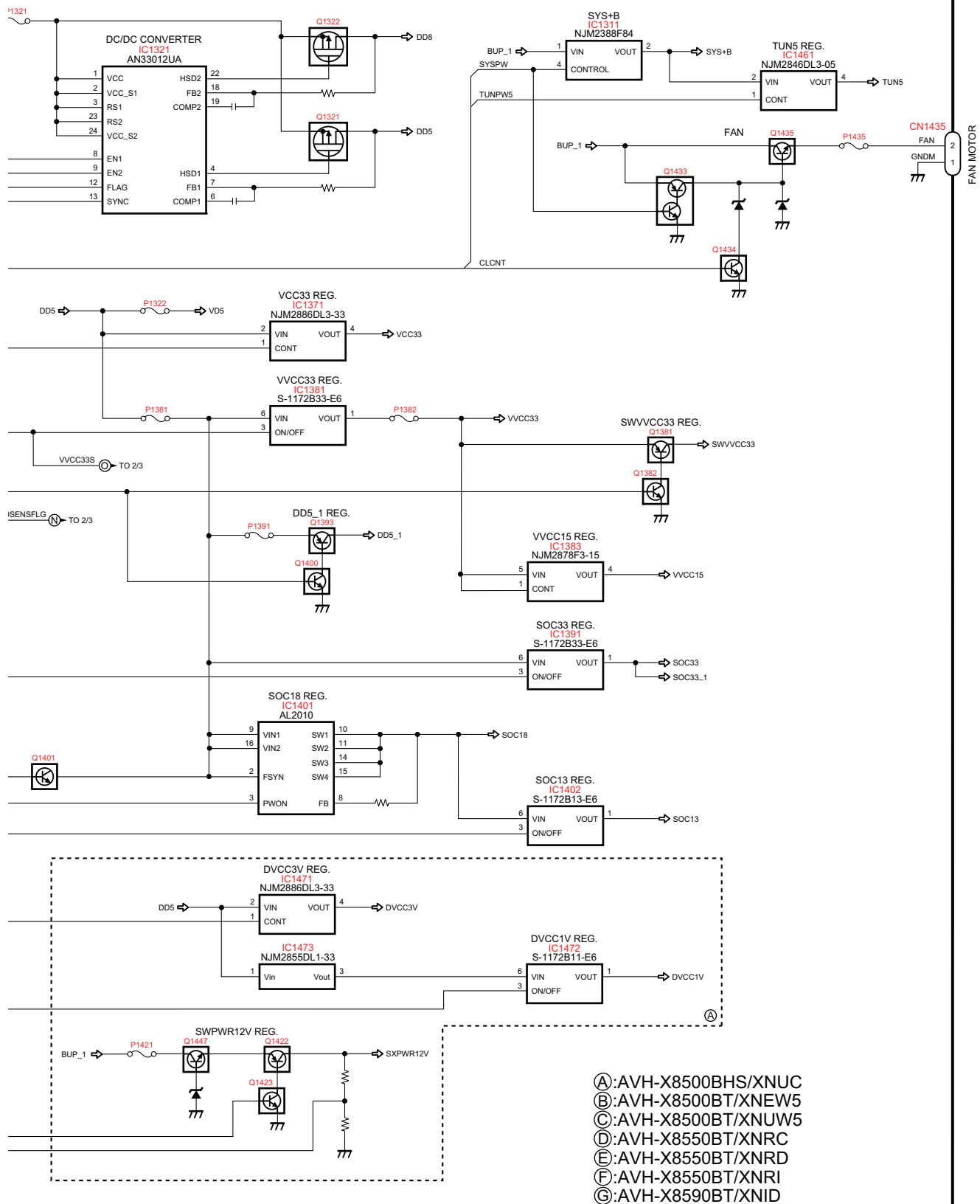
C

D

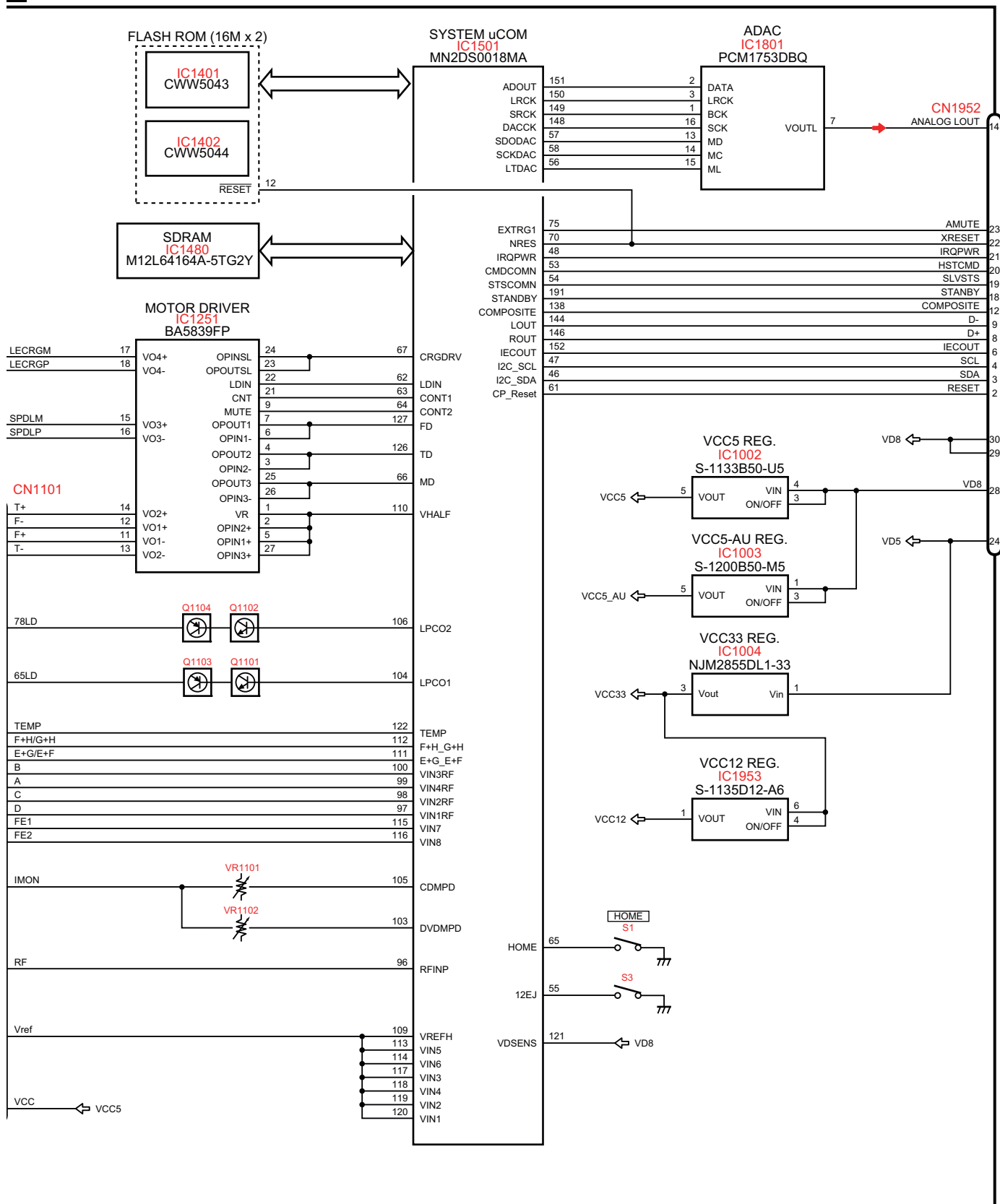
E

F





DVD CORE UNIT



):AVH-X8500BHS/XNUC (E):AVH-X8550BT/XNRD
):AVH-X8500BT/XNEW5 (F):AVH-X8550BT/XNRI
):AVH-X8500BT/XNUW5 (G):AVH-X8590BT/XNID
):AVH-X8550BT/XNRC

G CASE UNIT(SERVICE)**E** MONITOR UNIT(SERVICE)

A

B

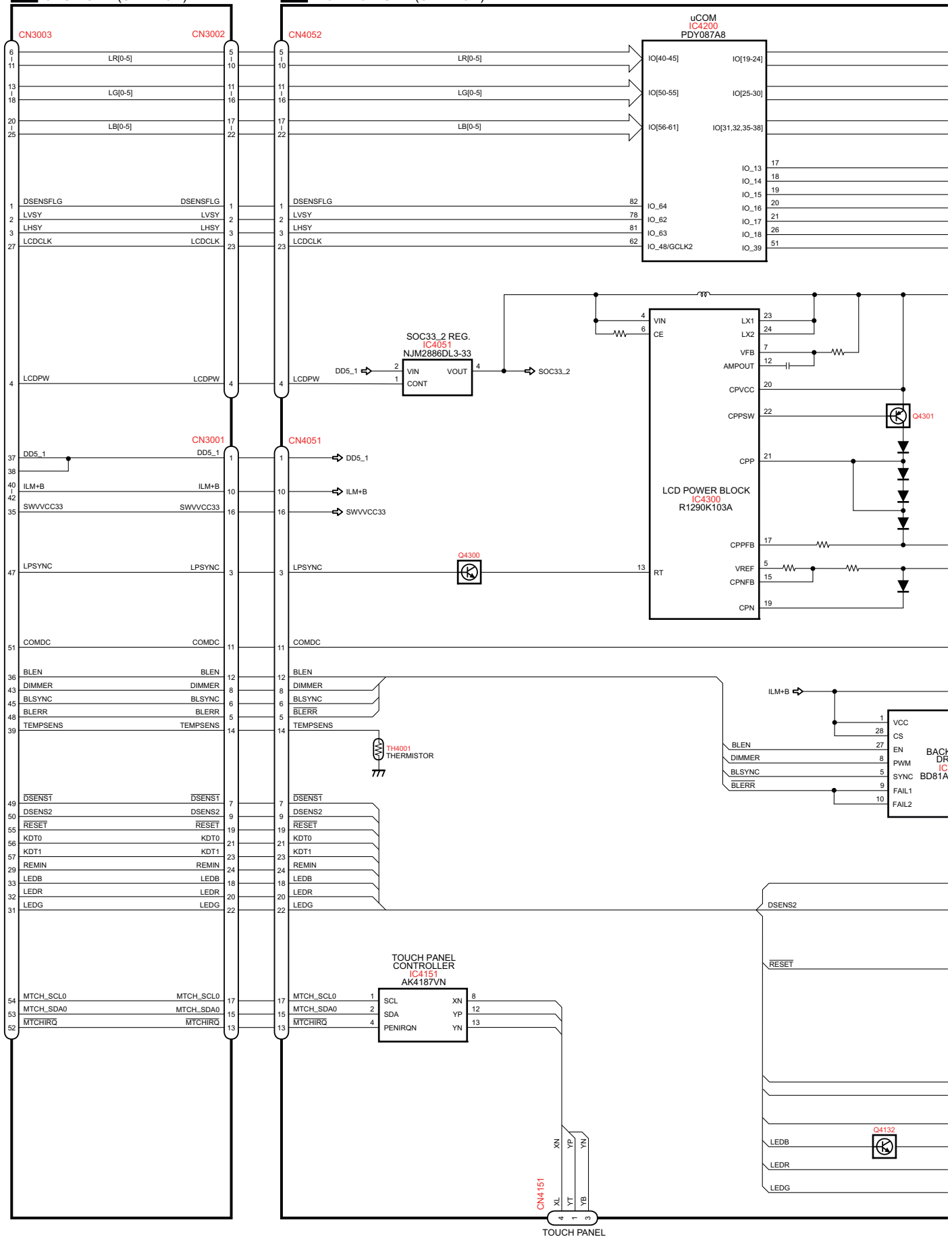
C

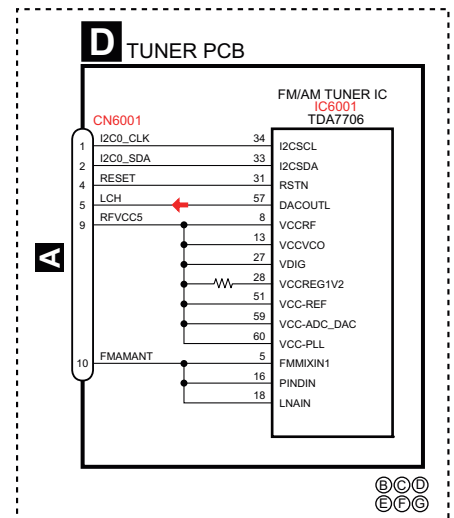
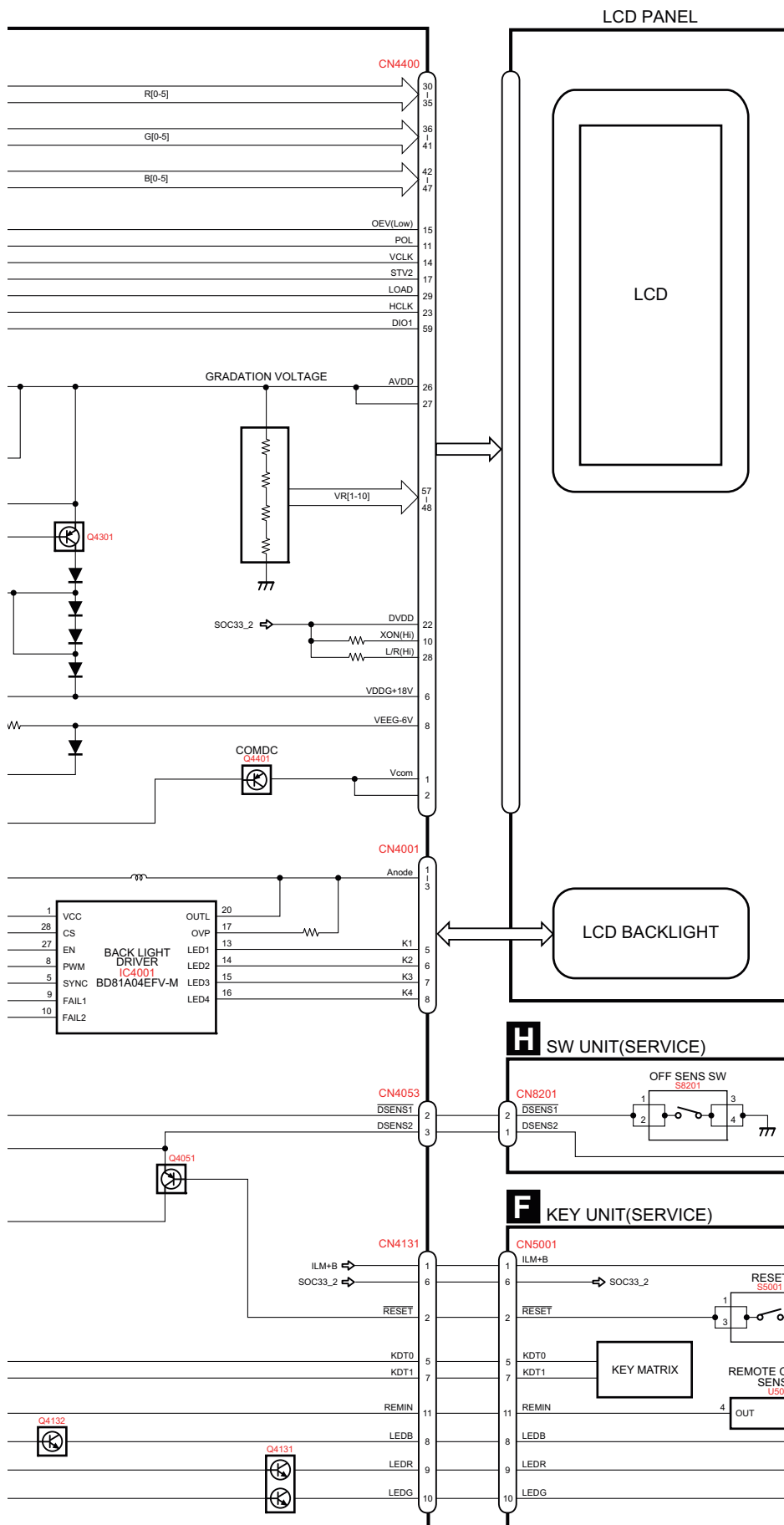
D

E

F

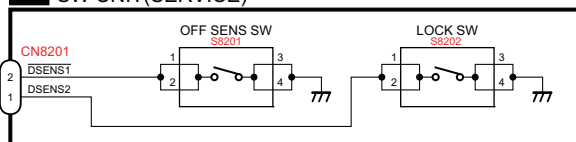
A CN702



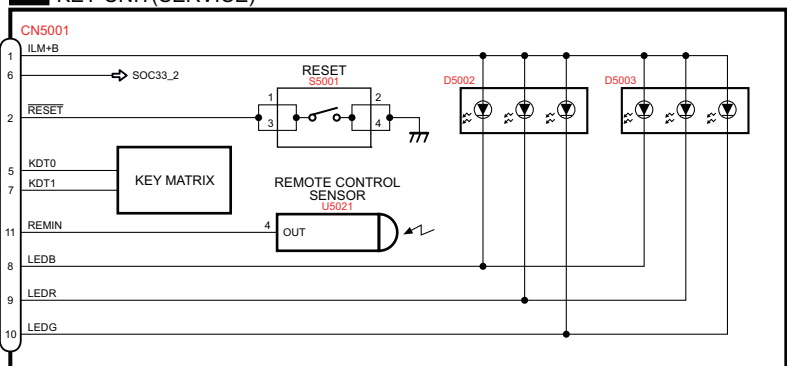


- A: AVH-X8500BHS/XNUC
 B: AVH-X8500BT/XNEW5
 C: AVH-X8500BT/XNUW5
 D: AVH-X8500BT/XNRC
 E: AVH-X8500BT/XNRD
 F: AVH-X8500BT/XNRI
 G: AVH-X8500BT/XNID

H SW UNIT(SERVICE)



F KEY UNIT(SERVICE)

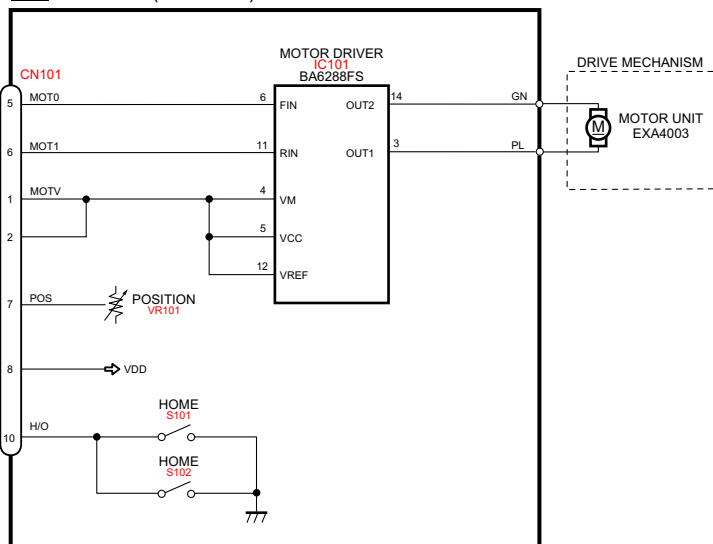


J PCB UNIT(SERVICE)

A

B CN2091

B



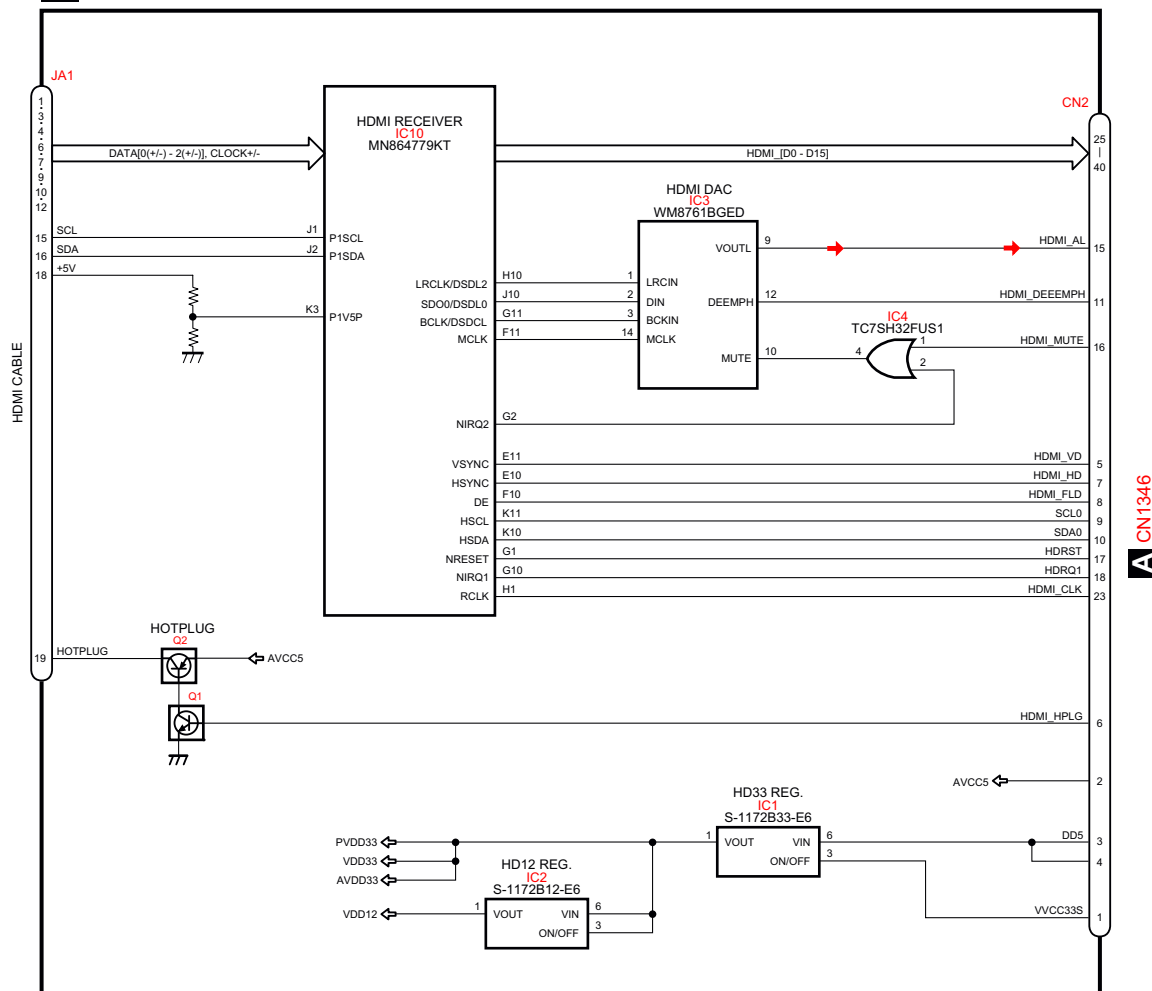
C

I HDMI UNIT

D

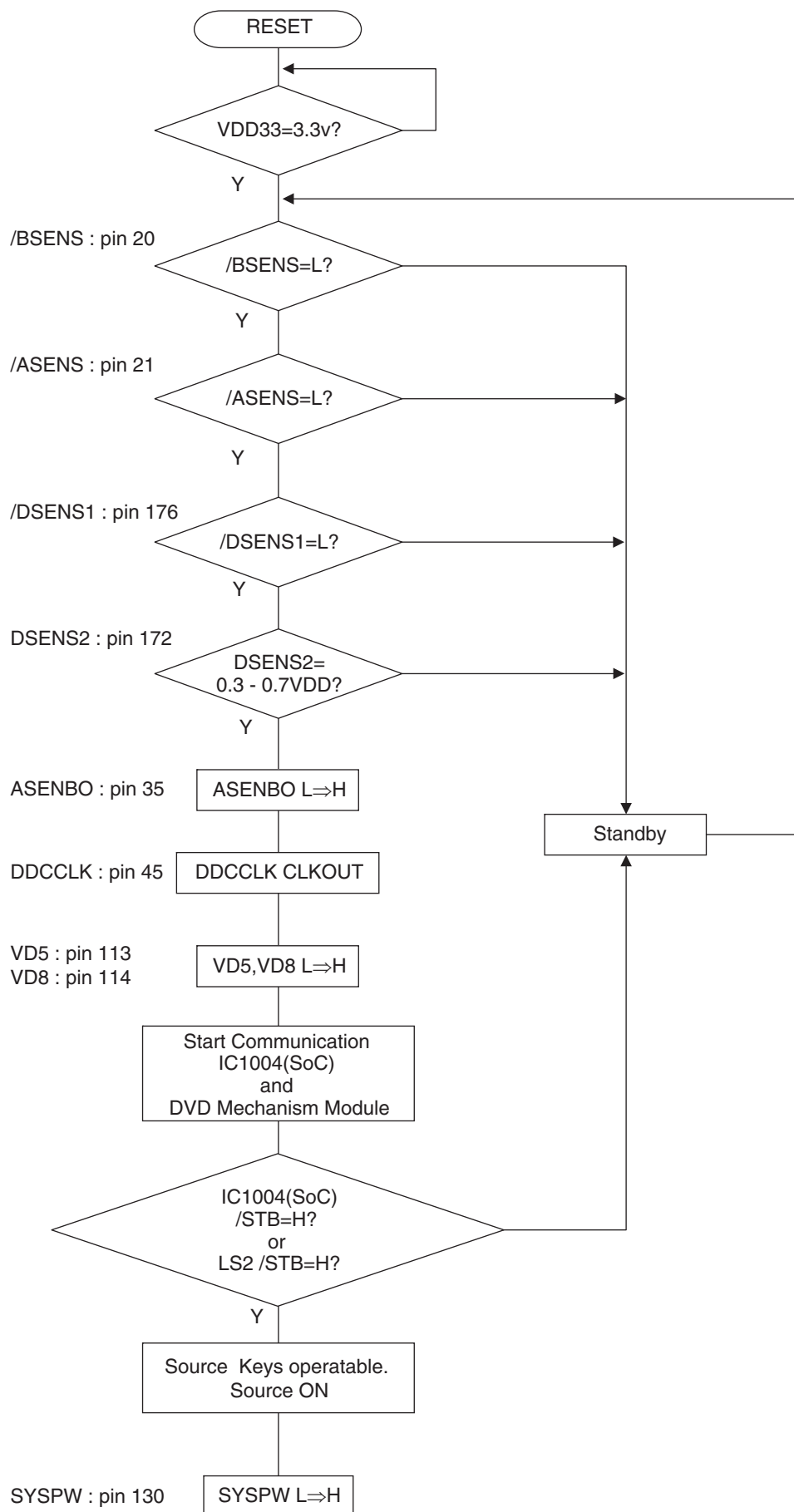
E

F



5. DIAGNOSIS

5.1 OPERATIONAL FLOWCHART



5.2 INSPECTION METHOD OF PICKUP UNIT

Disc to be used

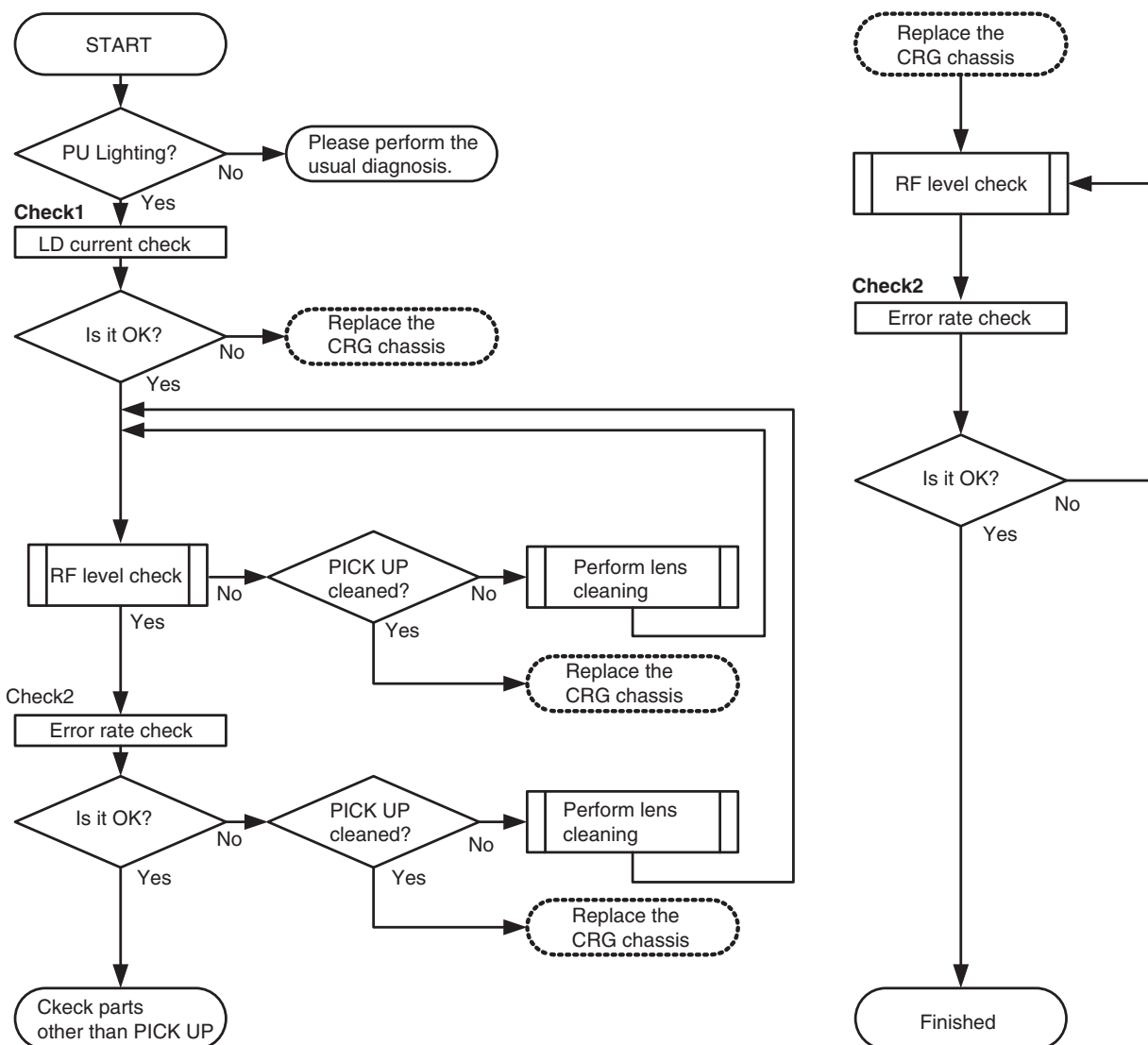
CD-DA : TCD-782

DVD-Video : TDV-582(GGV1025)

Exact judgment cannot be performed if the disk to be used has a crack and dirt.
Be careful of handling of a disk enough.

Execution method

Refer to the following page for the details of the check 1 and the check 2.

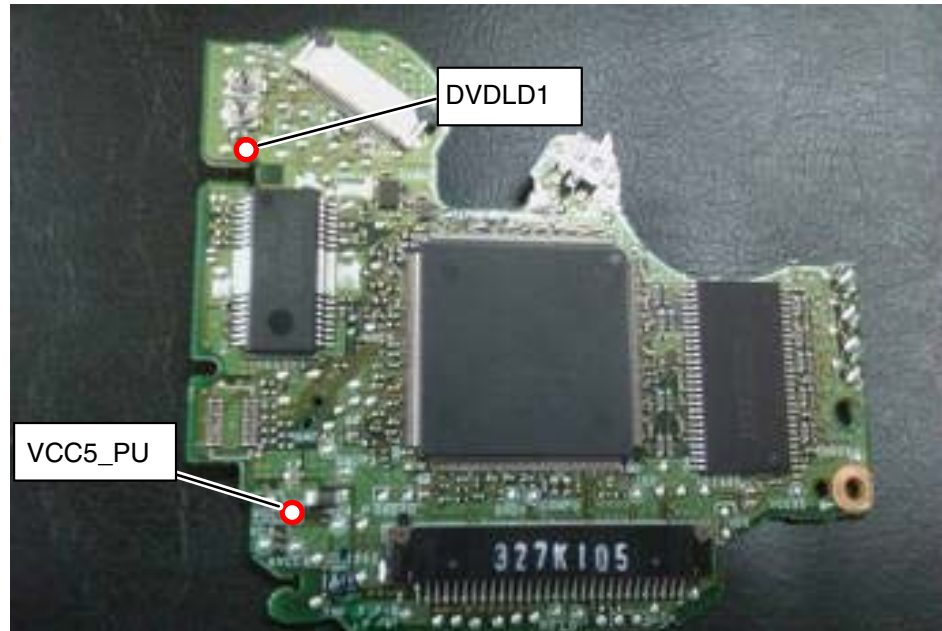


Check1 : LD current check

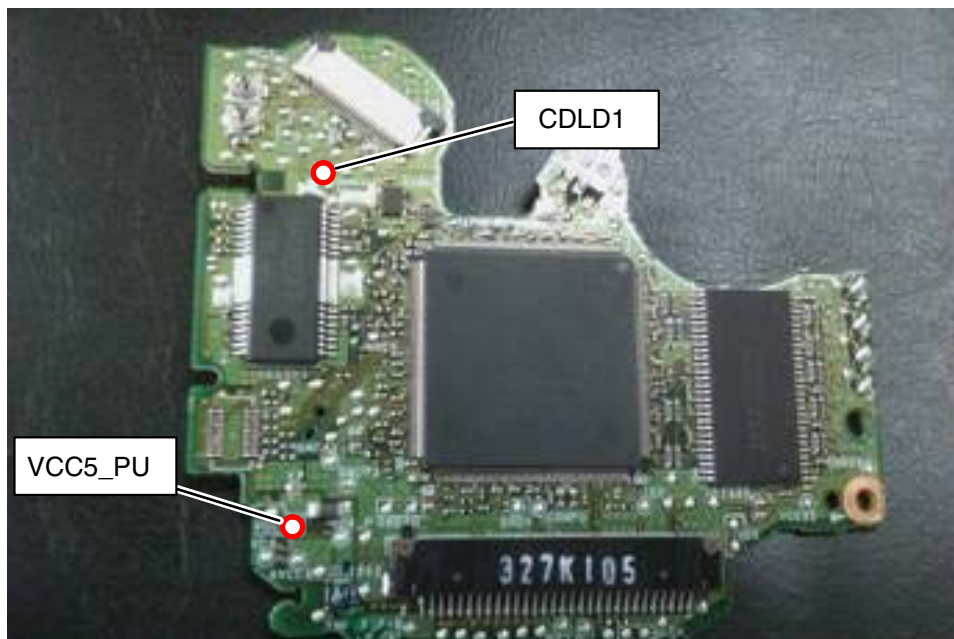
<Check>

Status: [Focus closed] of TEST MODE

No.	Disc	Check Point	Threshold	Remarks: LD current
1	GGV1025	DVDLD1 - VCC5_PU	120 - 780 (mV)	10 - 65 (mA)



No.	Disc	Check Point	Threshold	Remarks: LD current
2	TCD-782	CDLD1 - VCC5_PU	150 - 900 (mV)	10 - 60 (mA)



Notes: Please pay attention to the laser diode damage by static electricity.

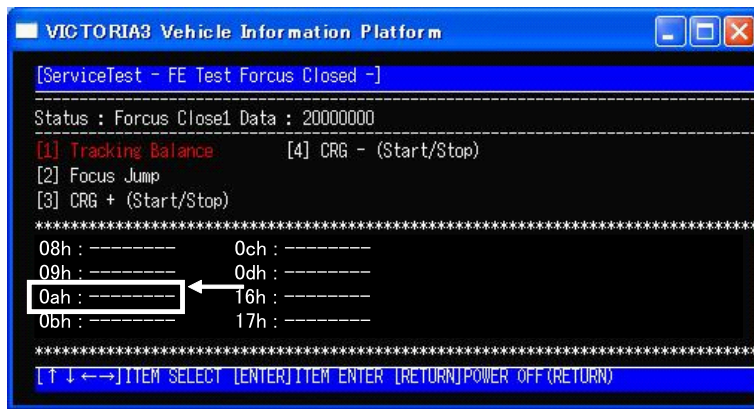
Check : RF level

<Check>

ASMAX value shows the value of RF level.

Status: [Focus closed] of TEST MODE

No.	Disc	Check Point	Threshold	Remarks
1	GGV1025	8 digits value of ASMAX on display	more than 0000 0B00	
2	TCD-782	8 digits value of ASMAX on display	more than 0000 0E00	

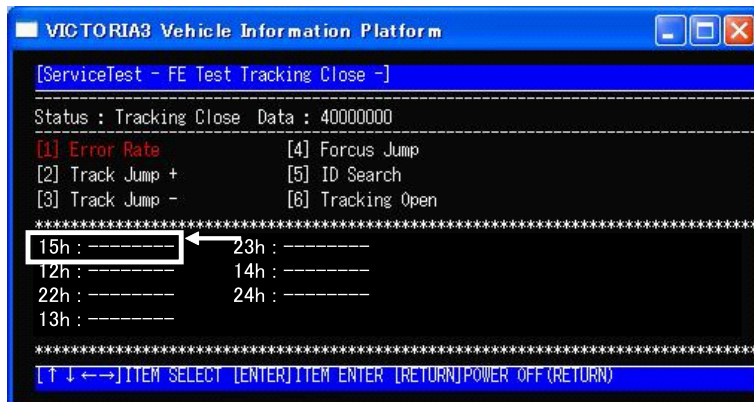


Check2 : Error rate check

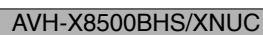
<Check>

Status: [Tracking Closed] of TEST MODE

No.	Disc	Check Point	Threshold	Remarks
1	GGV1025	ID:40000	less than 1.000E-3	
2	GGV1025	ID:200000	less than 1.000E-3	
3	TCD-782	ID:HOME Position	less than 2.500E-3	



LS2 BACK END section flow



Check 1: Standby OK?

A

<Check> Check the voltage at the "STANBY" test point while the power is on.
Use the "DGND1" test point at the reference.

No.	Check point	Module No.	Specification value	Unit
1	STANBY - DGND1	ALL	VCC33 - 0.6 V or more	V

Side A

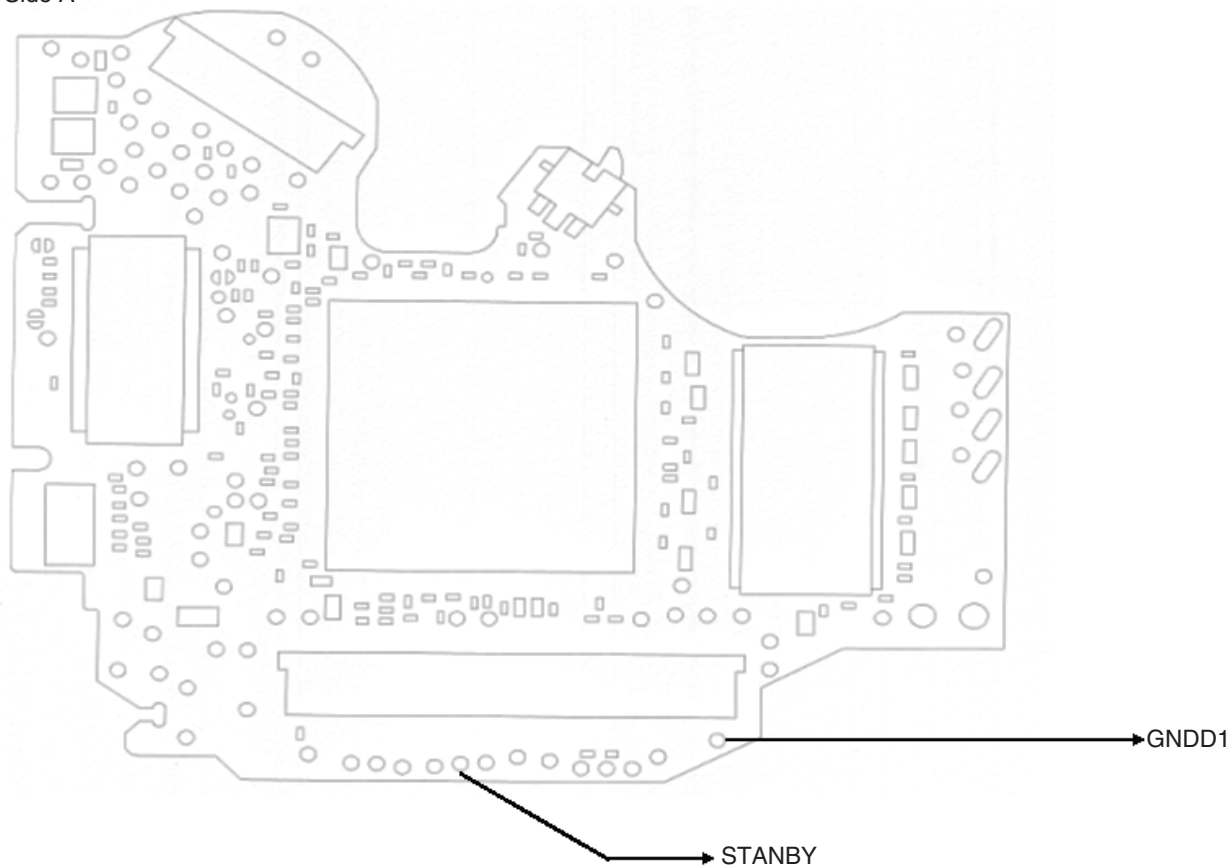


Fig 1.1: STANBY check point

E

F

Check 2: Is VDD5 (VCC33, VCC12) power supply voltage OK?

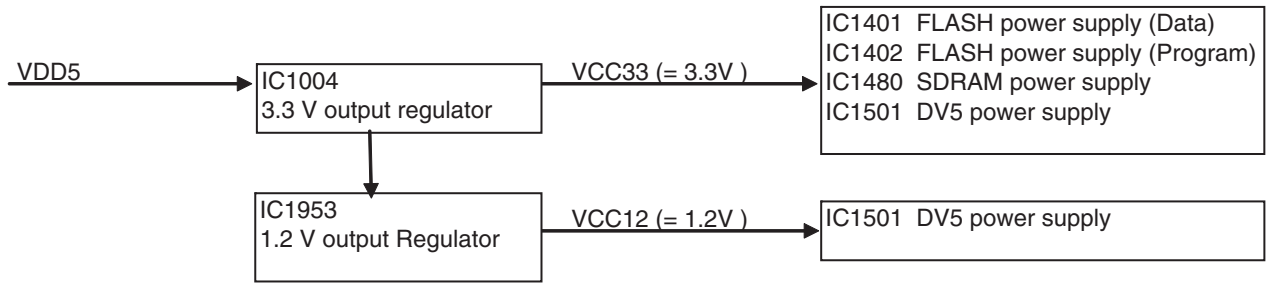


Fig 2.1: Power supply configuration

<Check> Check the voltage at the “VDD5_1, VCC33_1 and VCC12_1” test point while the power is on.
Use the “DGND1” test point at the reference.

No.	Check point	Module No.	Specification value	Unit
1	VDD5_1 - DGND1	ALL	5.0 ± 0.4	V
2	VCC33_1 - DGND1	ALL	3.3 ± 0.033	V
3	VCC12_1 - DGND1	ALL	1.2 ± 0.015	V

Side A

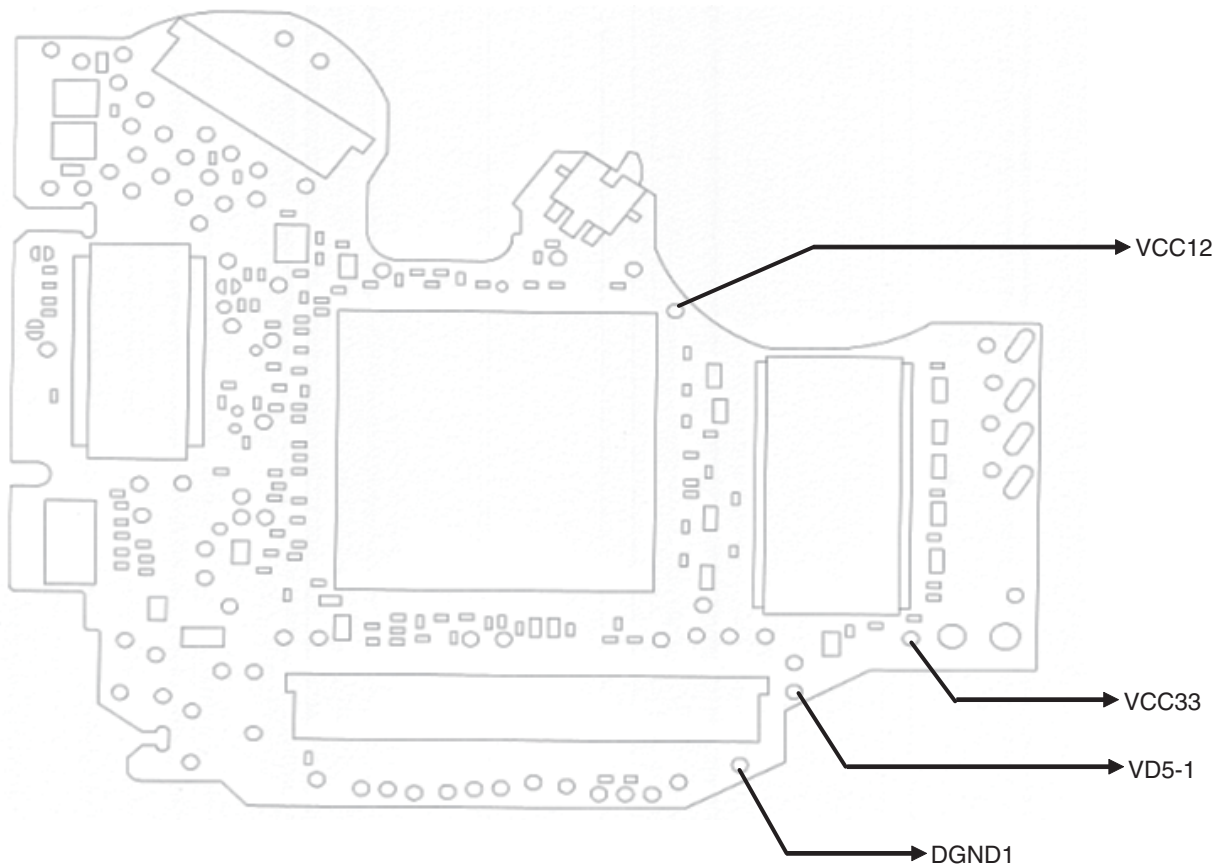


Fig 2.2: VDD5, VCC33, VCC12 voltage check points

Check 3: Reset OK?

<Check> Check the voltage at the “XRES” test point while the power is on.
Use the “DGND1” test point at the reference.

No.	Check point	Module No.	Specification value	Unit
1	NRES - DGND1	ALL	VCC33 × 0.7 or more	V

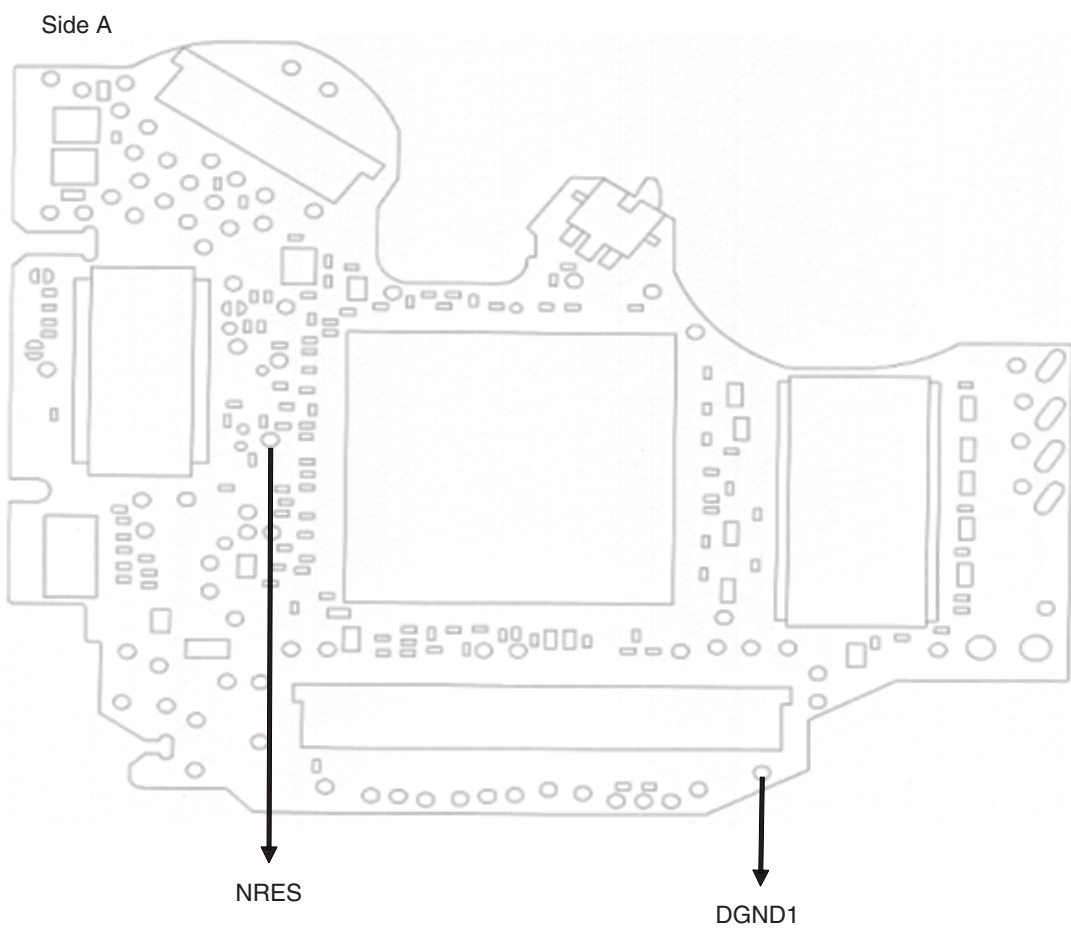


Fig 3.1: RESET check point

Check 4: Is VSENS OK?

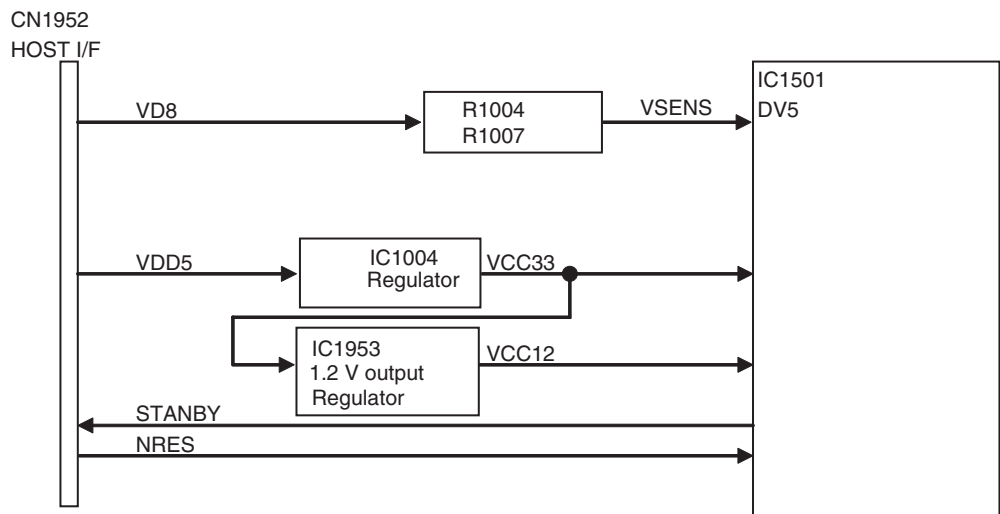


Fig 4.1: Power supply configuration and VSENS

<Check> Check the voltage at the “VSENS” test point while the power is on.
Use the “DGND1” test point at the reference.

No.	Check point	Module No.	Specification value	Unit
1	VSENS - DGND1	ALL	0.95 - 1.07	V

$VD8 = 8.0 \pm 0.4 \text{ V}$

Side A

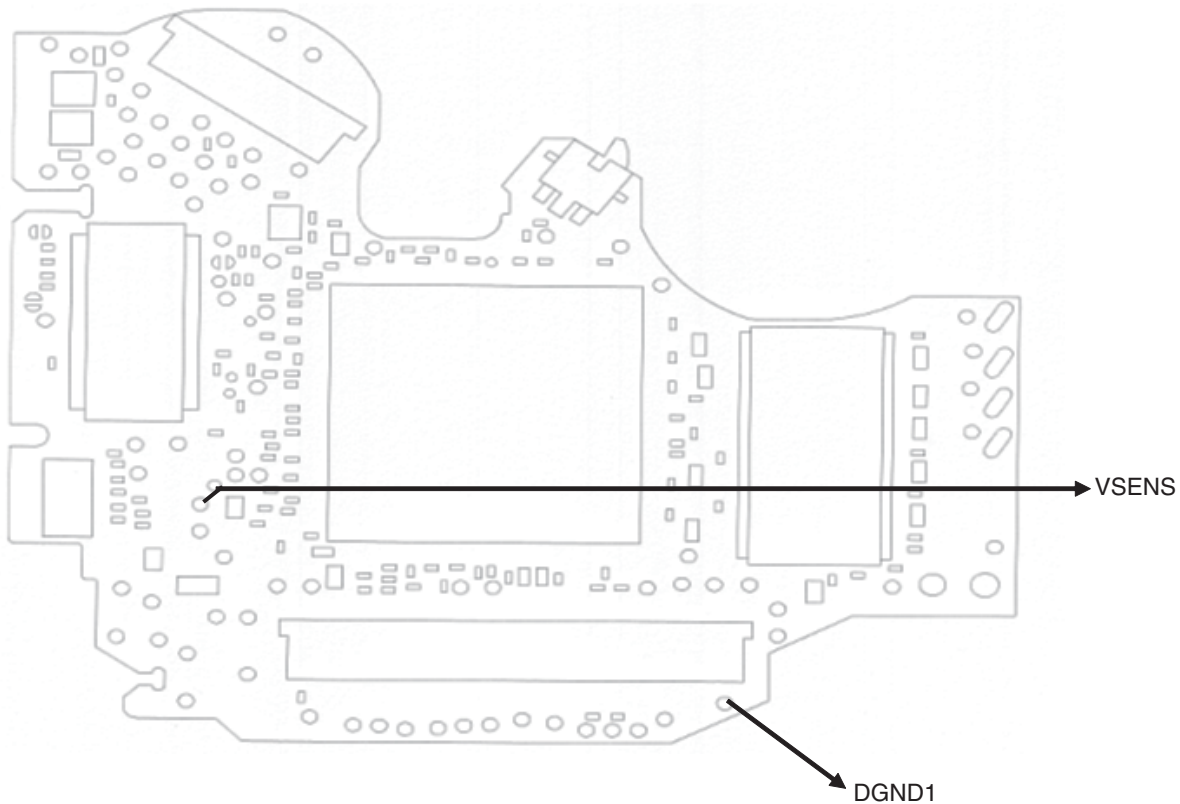
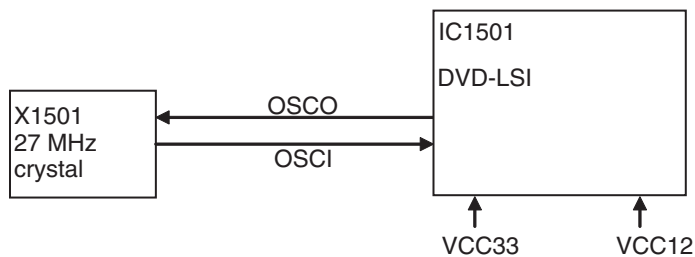


Fig 4.2: VSENS check point

Check 5: 27 MHz Normal?

A

<Outline> Each clock is created inside the IC1501 using the 27 MHz master crystal oscillator (X1501).



B

Fig 5.1: Clock configuration

<Check method> Turn the power on, and check with DGND being the reference.
In case of NG, check the applicable line, periphery of IC1501, soldering of the peripheral components and defective components.

No.	Check point	Module No.	Specification value	Unit
2	IC1501 156pin - DGND1	ALL	27 MHz $\pm$ 50 ppm	ppm

C

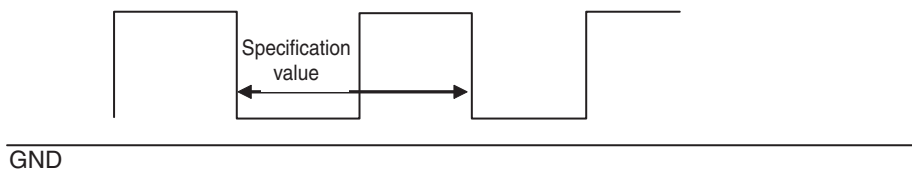
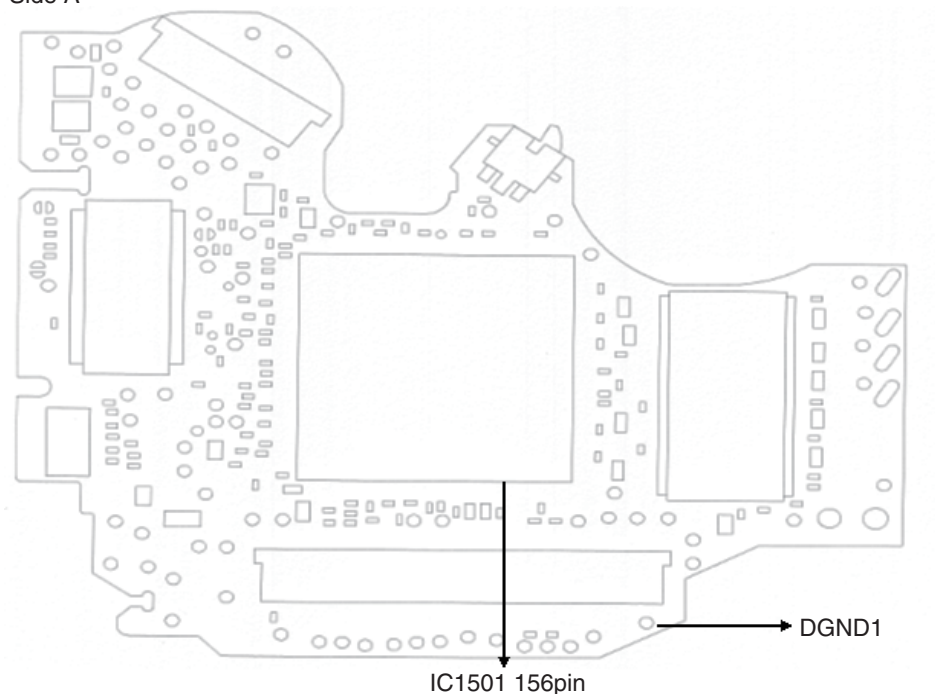


Fig 5.2: Clock specification value

D

Side A



F

Fig 5.3: 27 MHz check point

Check 6: Is SDRAM I/F OK?

<Outline> In order to secure the MPEG stream data as the buffer,
the capacity of communication I/F SDRAM between the LSI and the memory is 64Mbit.
Be careful as XCSM, XWE, XCAS and XRAS of IC1480 are called differently in IC1501,
namely NCSM, NWE, NCAS, NRAS.

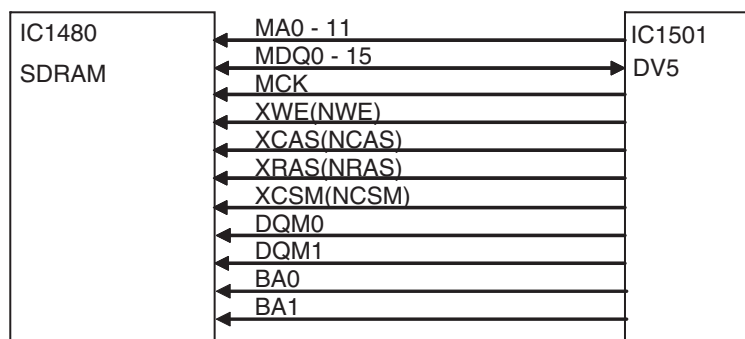


Fig 6.1: SDRAM I/F

<Check> Check the conductivity at “check point 1” and “check point 2” without power.
In case of NG, check the soldering and defective components throughout the
“output → input” of the applicable section.

No.	Signal name	Check point 1	Check point 2	Specification value
1	MA0	IC1480 23pin	IC1501 201pin	56 ohm ± 5%
2	MA1	IC1480 24pin	IC1501 203pin	56 ohm ± 5%
3	MA2	IC1480 25pin	IC1501 207pin	56 ohm ± 5%
4	MA3	IC1480 26pin	IC1501 209pin	56 ohm ± 5%
5	MA4	IC1480 29pin	IC1501 208pin	56 ohm ± 5%
6	MA5	IC1480 30pin	IC1501 206pin	56 ohm ± 5%
7	MA6	IC1480 31pin	IC1501 202pin	56 ohm ± 5%
8	MA7	IC1480 32pin	IC1501 200pin	56 ohm ± 5%
9	MA8	IC1480 33pin	IC1501 198pin	56 ohm ± 5%
10	MA9	IC1480 34pin	IC1501 194pin	56 ohm ± 5%
11	MA10	IC1480 22pin	IC1501 199pin	56 ohm ± 5%
12	MA11	IC1480 35pin	IC1501 192pin	56 ohm ± 5%
13	MDQ0	IC1480 2pin	IC1501 160pin	56 ohm ± 5%
14	MDQ1	IC1480 4pin	IC1501 162pin	56 ohm ± 5%
15	MDQ2	IC1480 5pin	IC1501 164pin	56 ohm ± 5%
16	MDQ3	IC1480 7pin	IC1501 168pin	56 ohm ± 5%
17	MDQ4	IC1480 8pin	IC1501 170pin	56 ohm ± 5%
18	MDQ5	IC1480 10pin	IC1501 172pin	56 ohm ± 5%
19	MDQ6	IC1480 11pin	IC1501 176pin	56 ohm ± 5%
20	MDQ7	IC1480 13pin	IC1501 178pin	56 ohm ± 5%
21	MDQ8	IC1480 42pin	IC1501 177pin	56 ohm ± 5%
22	MDQ9	IC1480 44pin	IC1501 175pin	56 ohm ± 5%
23	MDQ10	IC1480 45pin	IC1501 171pin	56 ohm ± 5%
24	MDQ11	IC1480 47pin	IC1501 169pin	56 ohm ± 5%
25	MDQ12	IC1480 48pin	IC1501 167pin	56 ohm ± 5%
26	MDQ13	IC1480 50pin	IC1501 163pin	56 ohm ± 5%
27	MDQ14	IC1480 51pin	IC1501 161pin	56 ohm ± 5%
28	MDQ15	IC1480 53pin	IC1501 159pin	56 ohm ± 5%
29	MCK	IC1480 38pin	IC1501 183pin	47 ohm ± 5%
30	XWE	IC1480 16pin	IC1501 181pin	56 ohm ± 5%
31	XCAS	IC1480 17pin	IC1501 188pin	56 ohm ± 5%
32	XRAS	IC1480 18pin	IC1501 189pin	56 ohm ± 5%
33	XCSM	IC1480 19pin	IC1501 190pin	56 ohm ± 5%
34	DQM0	IC1480 15pin	IC1501 179pin	56 ohm ± 5%
35	DQM1	IC1480 39pin	IC1501 180pin	56 ohm ± 5%
36	BA0	IC1480 20pin	IC1501 193pin	56 ohm ± 5%
37	BA1	IC1480 21pin	IC1501 197pin	56 ohm ± 5%

Side A

A

B

C

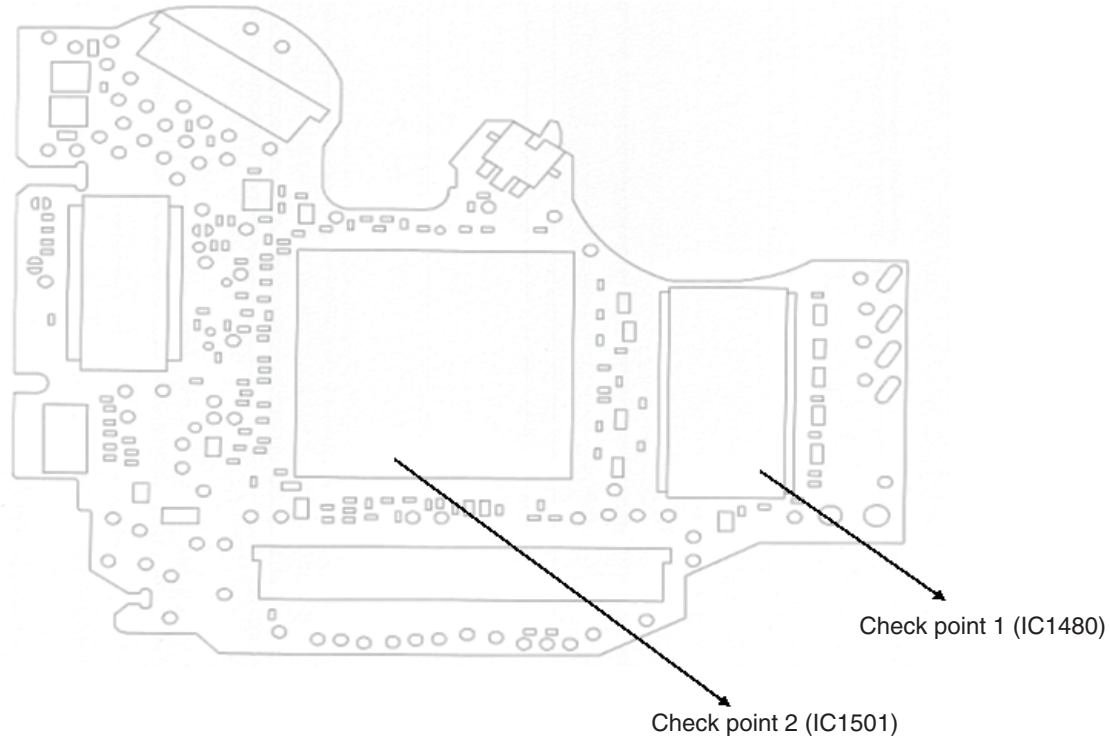


Fig 6.2: SDRAM I/F check point

D

E

F

Check 7: Is VD8, VCC5 power supply voltage OK?

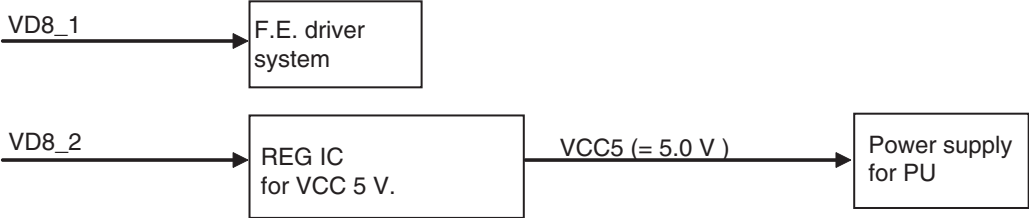


Fig 7.1: Power supply configuration

<Check> Check the voltage at the “VD8_P, VD8_A and VCC5_1” test point while the power is on.
Use the “PGND1 and AGND1” test point at the reference.

No.	Check point	Module No.	Specification value	Unit
1	VD8_P - PGND1	ALL	8.0 ± 0.4	V
2	VD8_A - AGND1	ALL	8.0 ± 0.4	V
3	VCC5_1 - AGND1	ALL	5.0 ± 0.05	V

Side A

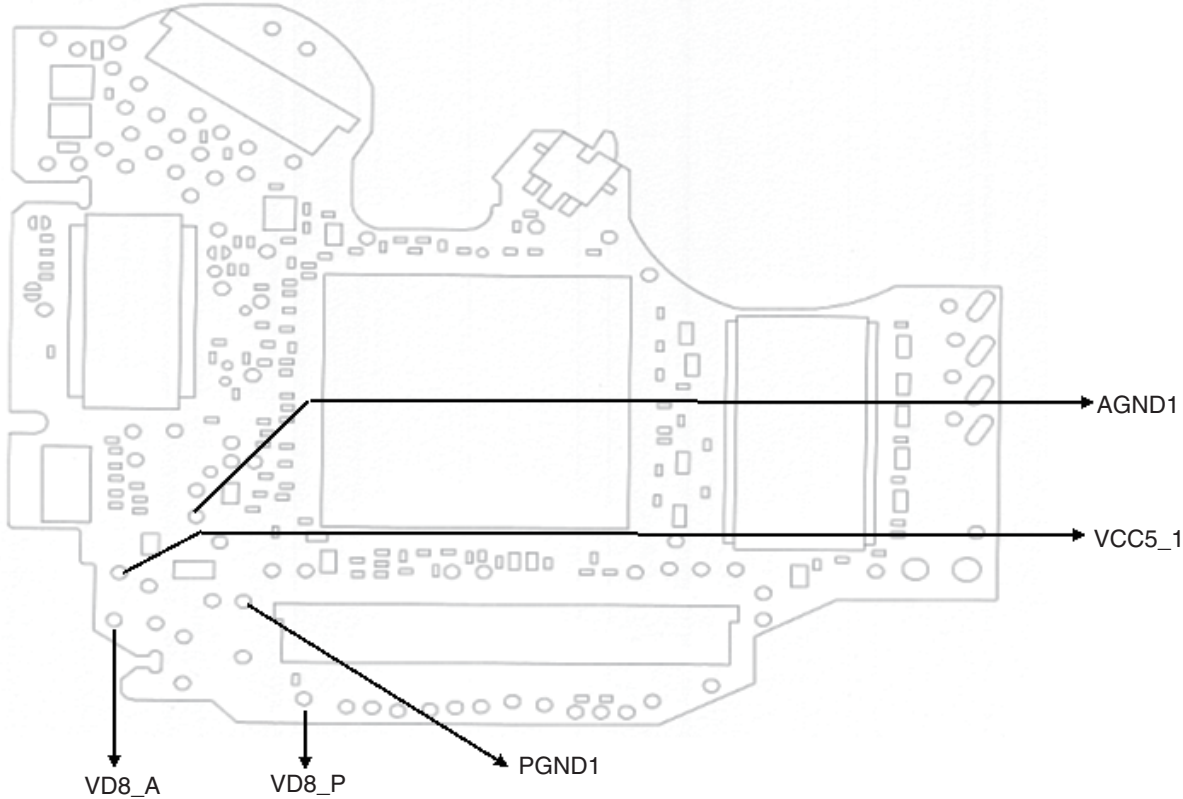


Fig 7.2: VD8, VCC5 voltage check points

Check 8: Is AVCC5 voltage OK?

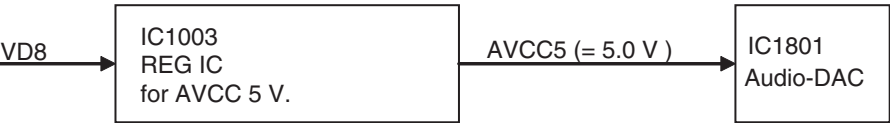


Fig 8.1: Power supply configuration

<Check> Playback DVD-REF-A1 TITLE 1 and check the voltage at the stylus.
Check with PGND_3 and GNDAU1 being the reference.

No.	Check point	Module No.	Specification value	Unit
1	VD8_A - PGND_3	ALL	8.0 ± 0.4	V
2	AVCC5 - GNDAU1	ALL	5.0 ± 0.05	V

Side A

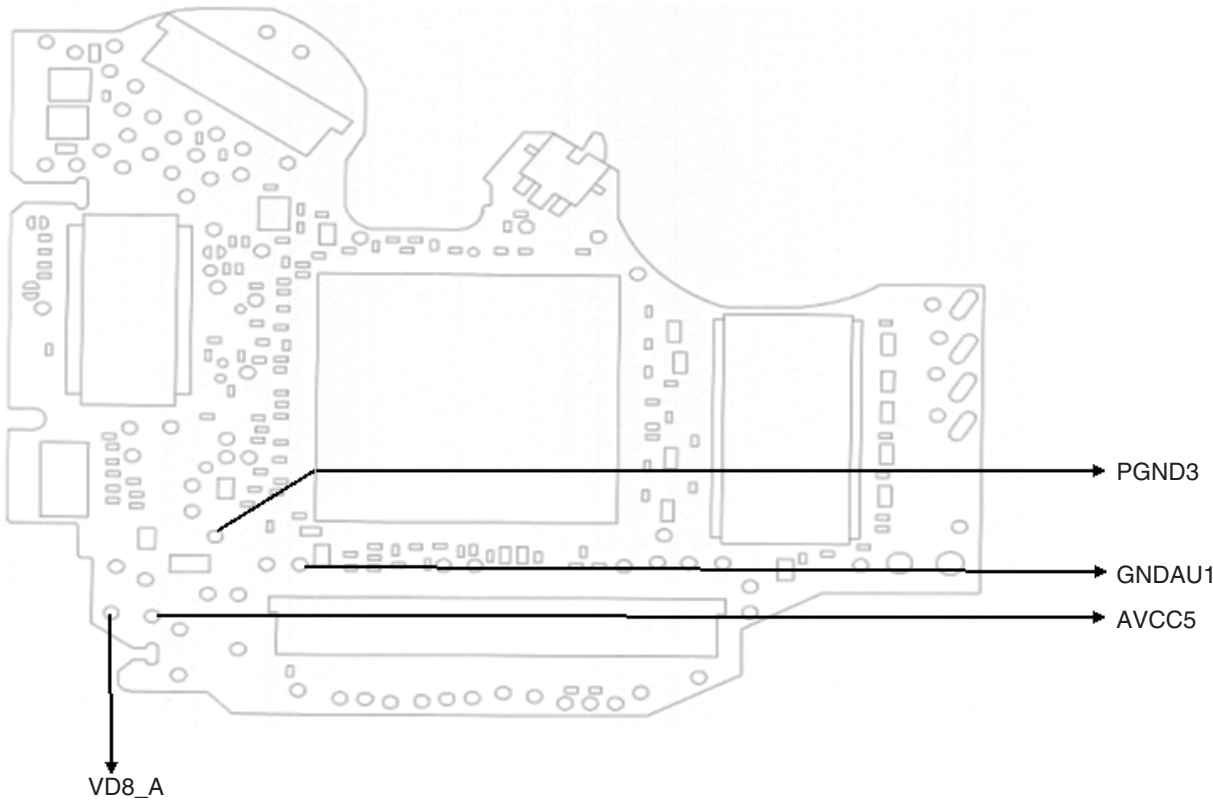


Fig 8.2: VD8, AVCC5 voltage check points

Check 9: Is DACCLK normal?

<Outline> DACCLK for Audio-DAC is created by IC1501 using the 27 MHz master crystal oscillator (X1501).

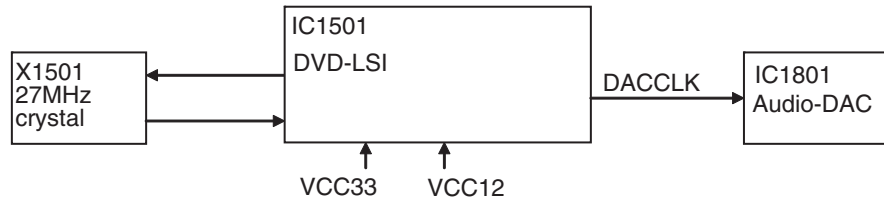


Fig 9.1: Clock configuration

<Check method>

DVD: DVD-REF-A1 TITLE 1

CD: Playback a normal CDDA.

Common to all DVD-V compatible modules.

Check with DGND being the reference.

In case of NG, check the applicable line, the periphery of IC1501, soldering of the peripheral components and defective components.

No.	Check point 1 (stylus)	Media	Specification value 1	Specification value 2	Specification value 3
1	DACCK	DVD	2.0 V - VCC33V	DGND - 0.8 V	36.8640 MHz $\pm$ 300 ppm
2	DACCK	CD	2.0 V - VCC33V	DGND - 0.8 V	33.8688 MHz $\pm$ 300 ppm

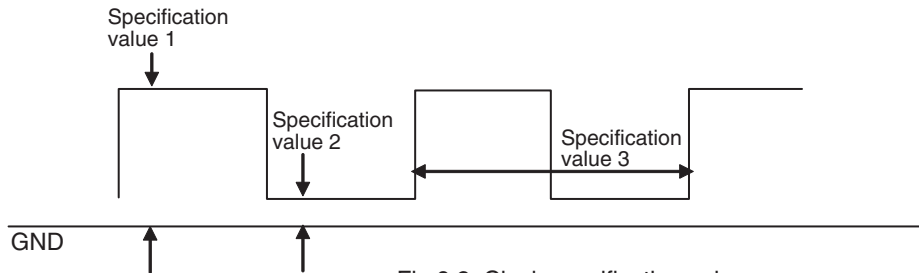


Fig 9.2: Clock specification value

Side A

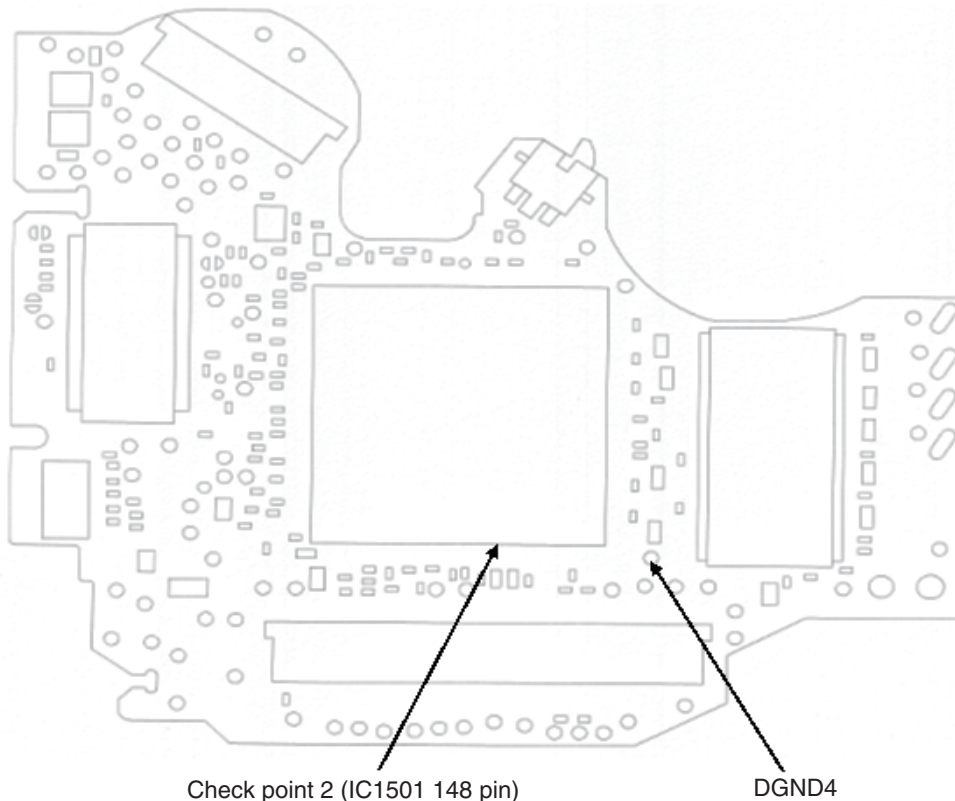


Fig 9.3: DACCLK check point

Check 10: Is the audio circuit OK?

<Outline> The serial 3 lines digital output + DACCLK, output from DVD-LSI (IC1501), are converted to analog audio signal at Audio-DAC (IC1801) and are output from the HOST I/F (CN1952). Simultaneously, the analog MUTE signal is also output from DVD-LSI (IC1501) via the HOST I/F. The digital audio signal (IECOUT), output from DVD-LSI (IC1501).

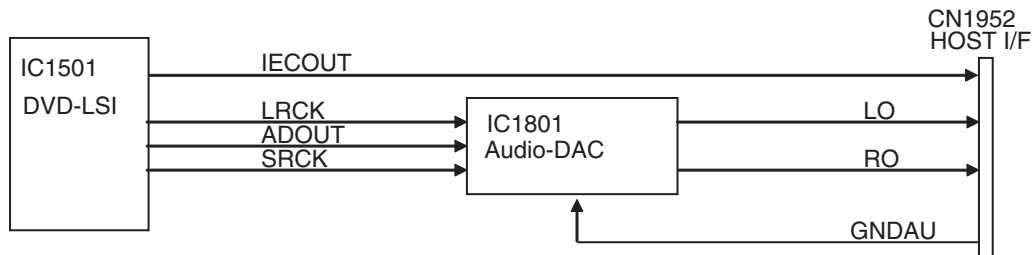


Fig 10.1: Audio circuit

<Check method> Playback DVD-REF-A1 TITLE 2 CHAPTER 1 (48 k/16 bit 1 kHz 0 dB), and check with DGND1 being the reference.

In case of NG, check the applicable line, periphery of major components as described in the above drawing, soldering of the peripheral components and defective components.

No.	Check point 1 (stylus)	Specification value 1	Specification value 2	Reference waveform
1	ADOUT	VCC33V - 0.6 V or higher	0.4 V or lower	Waveform 1
2	SRCK	VCC33V - 0.6 V or higher	0.4 V or lower	Waveform 2
3	LRCK	VCC33V - 0.6 V or higher	0.4 V or lower	Waveform 3

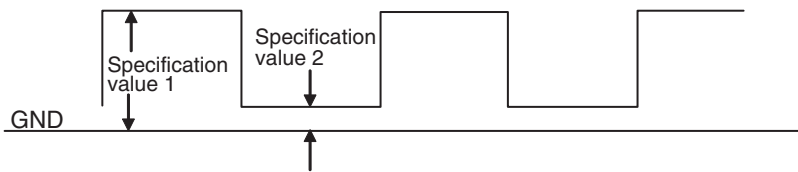


Fig 10.2: Serial 3 lines specification value

Side A

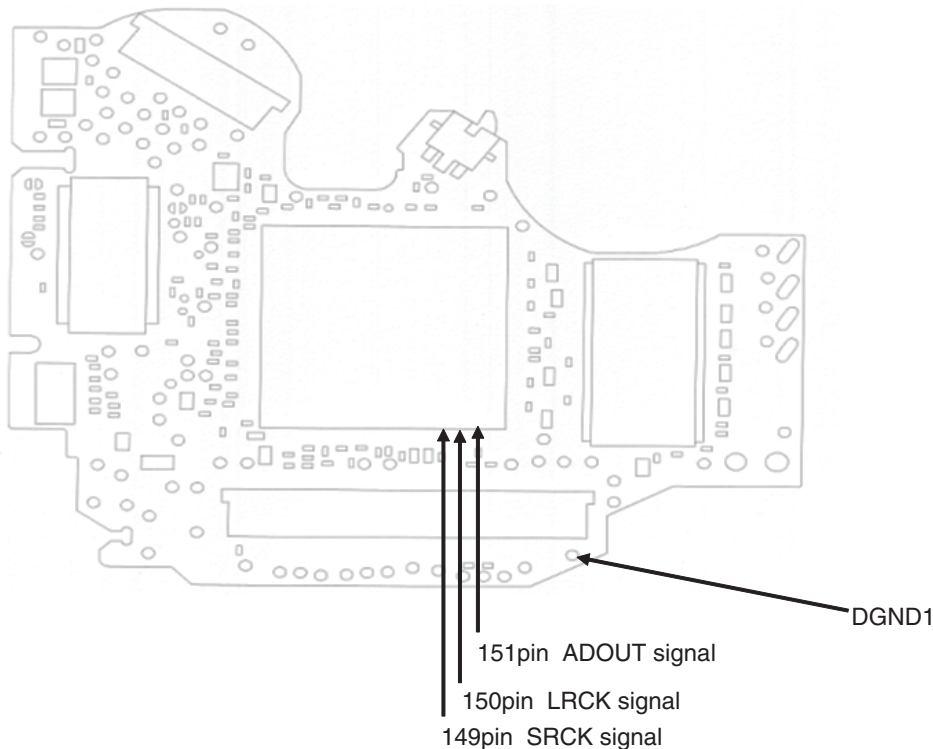
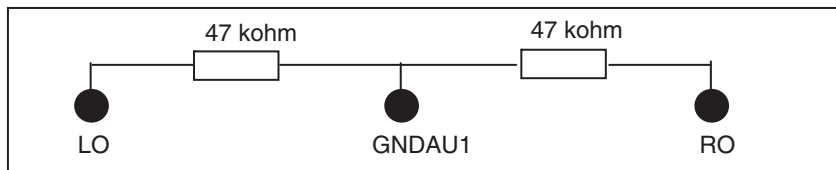


Fig 10.3: Serial 3 lines check points

The following checks shall be conducted using the following measurement circuits with GNDAU1 being the reference.



No.	Check point 1 (stylus)	Specification value (rms)	Reference waveform
4	LO	1400 ± 150 mV	Waveform 4
5	RO	1400 ± 150 mV	Waveform 4

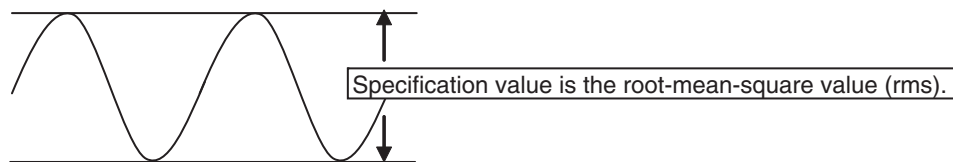


Fig 10.4: Analog audio out (LO, RO) specification value.

Side A

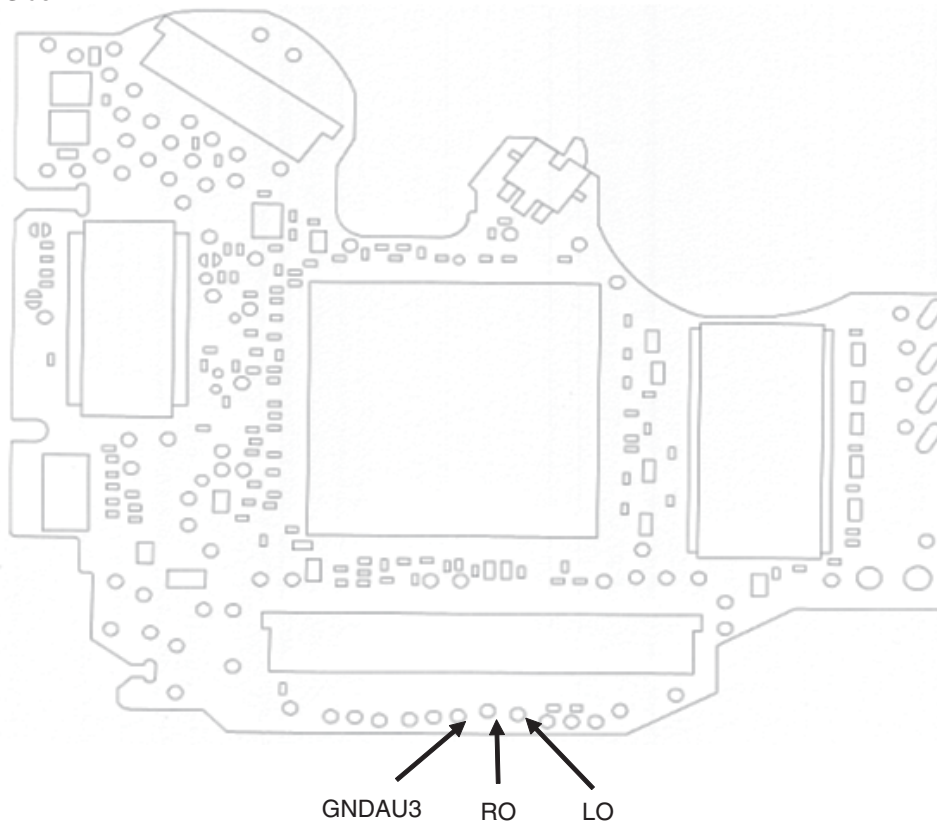
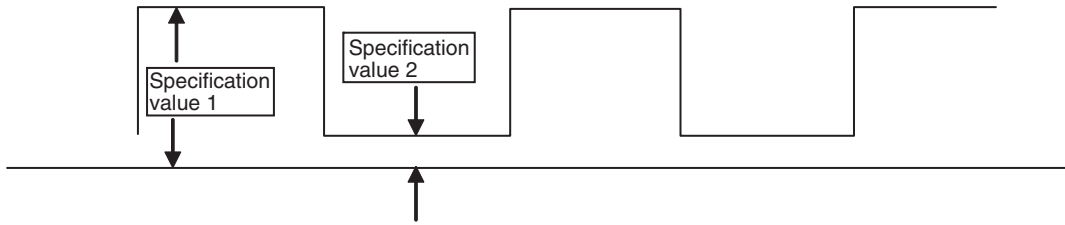


Fig 10.5: Analog audio out check point

Check with DGND1 being the reference.

No.	Check point 1 (stylus)	Specification value 1	Specification value 2	Reference waveform
6	IEC	VCC33V - 0.6 V or higher	0.4 V or lower	Waveform 5



10.6: Digital audio signal (IECOUT) specification value

Side A

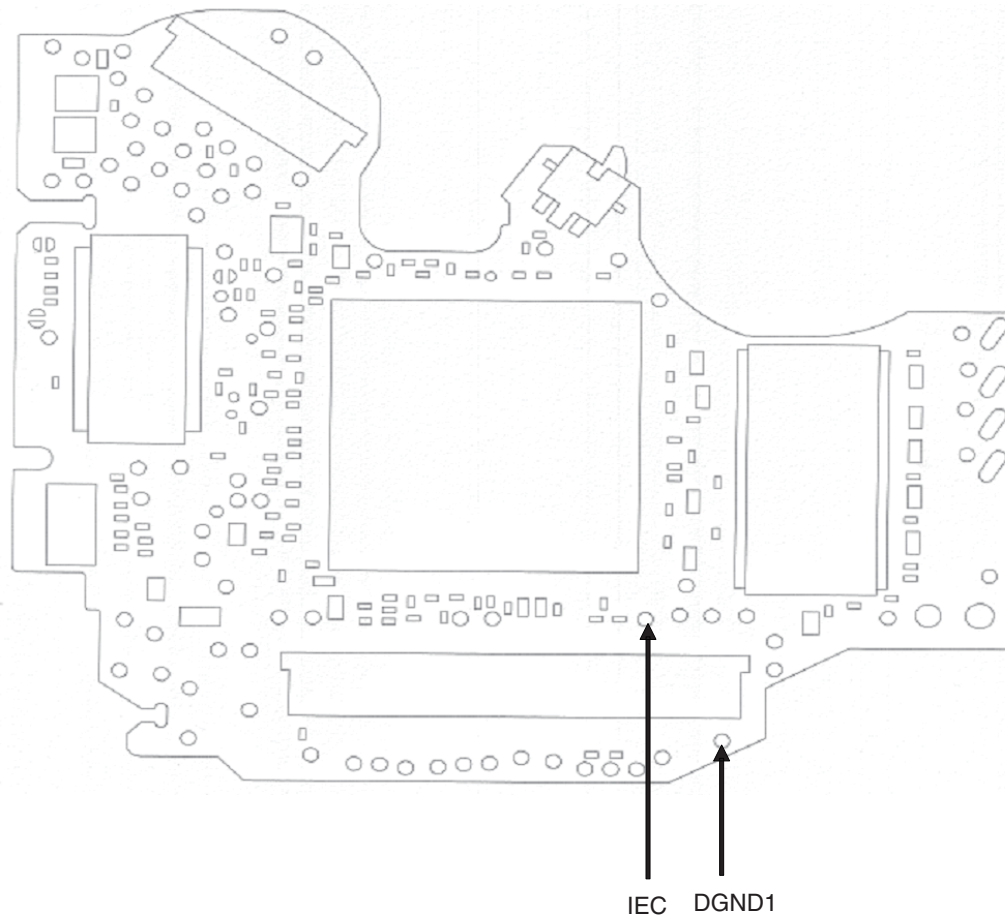


Fig 10.7: Digital audio signal (IECOUT) check point

Check 11: Is the video circuit OK?

<Outline> Composite signal and component signal are output from DVD-LSI (IC1501), and are output from the HOST I/F (CN1952) via a buffer circuit.

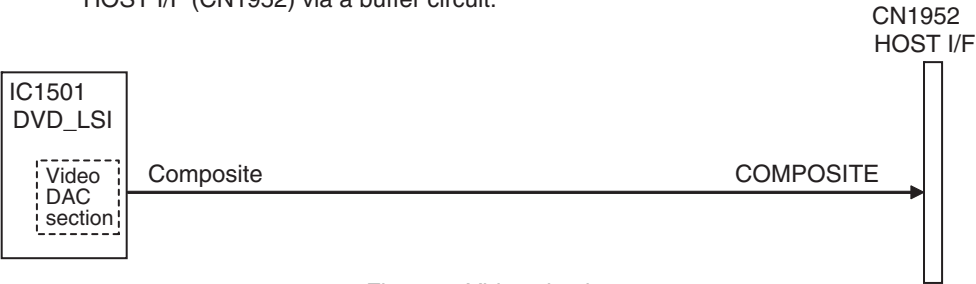


Fig 11.1: Video circuit

<Checking method> Playback DVD-REF-A1 TITLE2 CHAPTER5 (WHITE 100%), and monitor COMPOSITE signal with an oscilloscope with GNDV (stylus) being the reference. Set the trigger mode to “TV trigger” and the trigger line to “150 line”.

No.	Check point 1 (stylus)	Specification value	Reference waveform
1	COMPOSITE	1000 mVpp ± 5%	Waveform 6

In case of NG, check the applicable line, the periphery of the major components in the drawing above, soldering of the peripheral components and defective components.

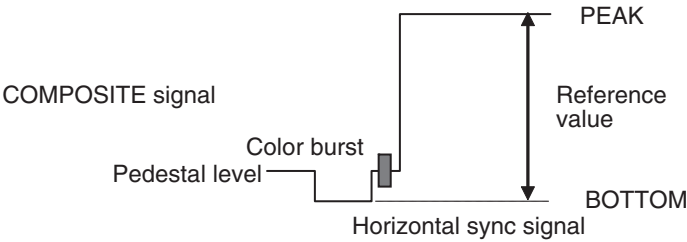


Fig 11.2: Waveform for the case of composite white 100% output

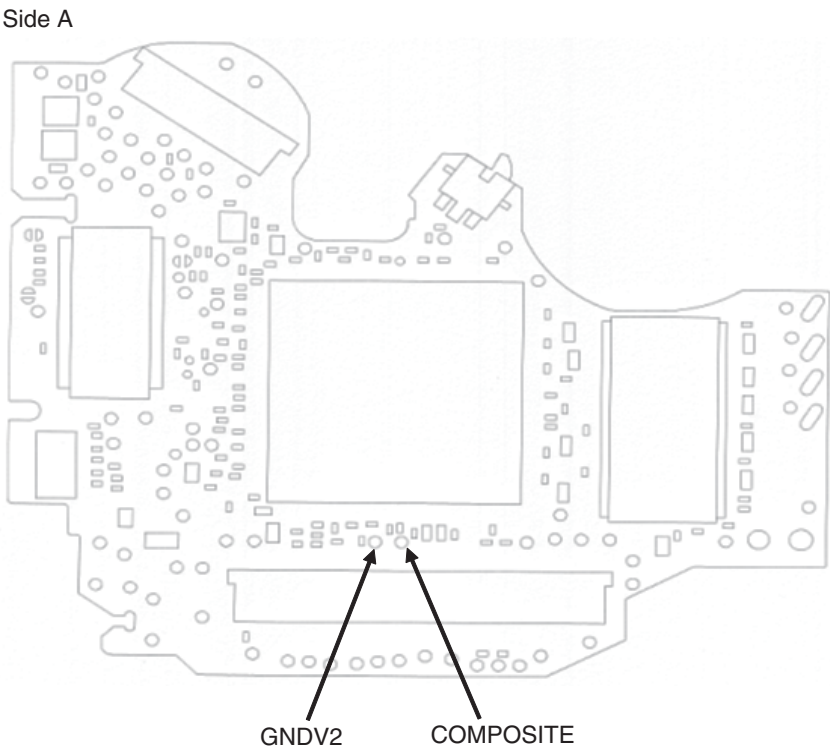


Fig 11.3: VIDEO signal check point

Check 12: How to judge whether the flash memory has reached its life or not.

A

If the reaction to user operation is slow or operation is slow in general, there is a possibility that the flash memory has reached its life.

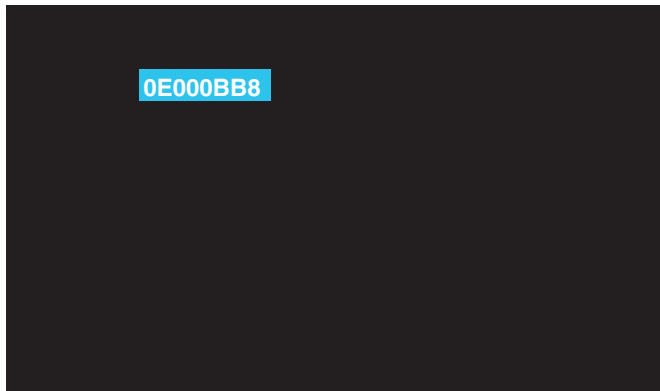
Make judgment regarding the flash memory life by looking at the display of the LD power on time mode.

1. Let the LD energizing time displayed.

(Refer to the FE test mode for the method of displaying the LD energizing time.)

2. If the second digit from the left of the energizing time display is showing E, such as “ E ”, it means that the flash memory has reached its life.

Example:



B

C

D

E

F

Check 13: 48 MHz Normal?

<Outline> CLOCK of a USB circuit is made using the 48 MHz master crystal oscillator (X1950).

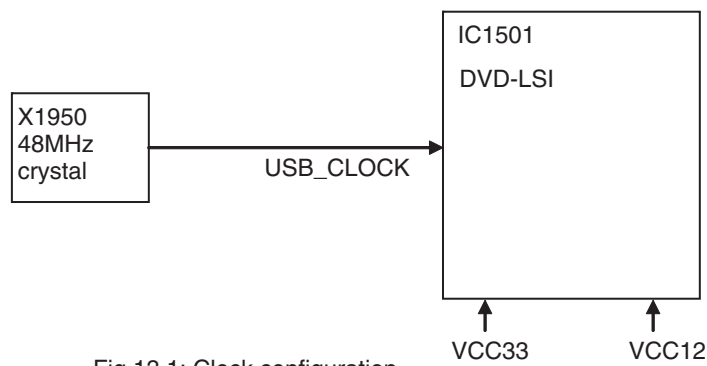


Fig 13.1: Clock configuration

<Check method> Turn the power on, and check with DGND1 being the reference.
In case of NG, check the applicable line, periphery of IC1501, soldering of the peripheral components and defective components.

No.	Check point	Module No.	Specification value	Unit
2	IC1501 50pin - DGND1	ALL	48 MHz $\pm$ 200 ppm	ppm

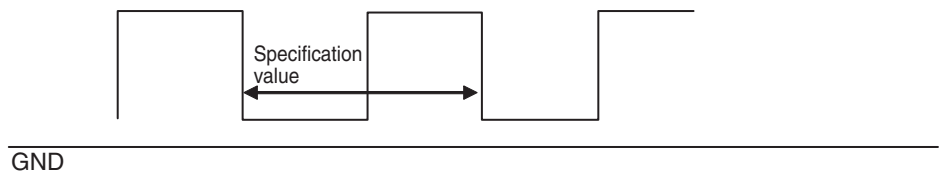


Fig 13.2: Clock specification value

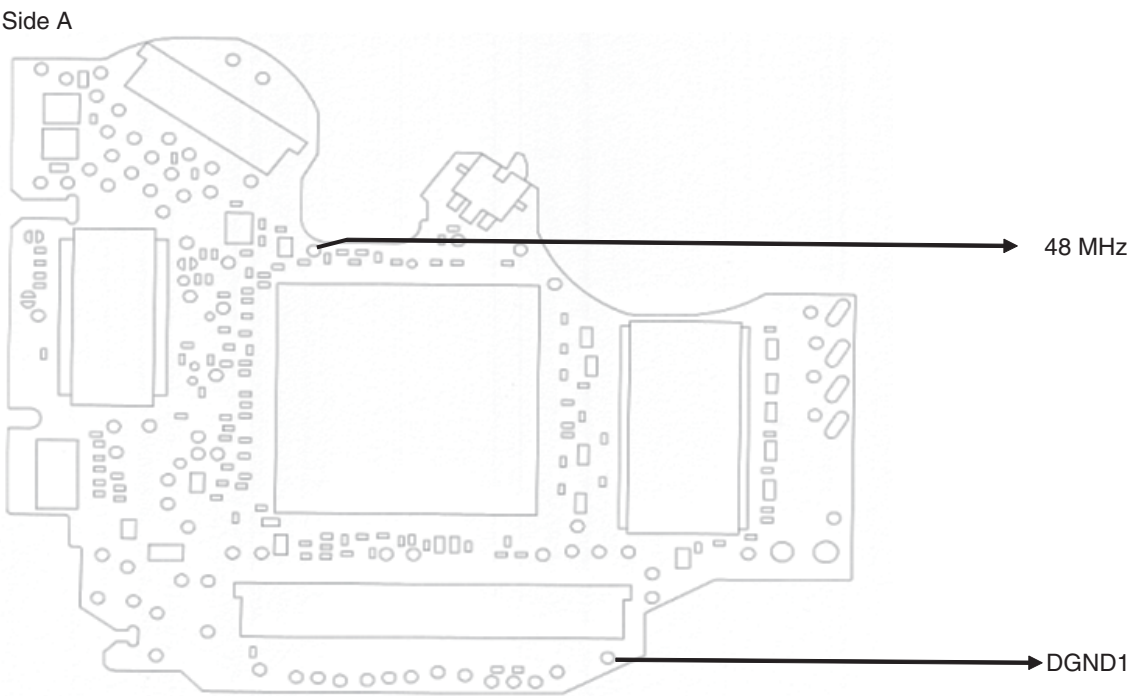


Fig 13.3: 48 MHz check point

Check 14: Is USB Circuit OK?

<Outline>

The data is transmitted through D+, D- and SDA of HOST I/F while playing USB/IPOD.

USB memory uses only D+ and D-, but IPOD uses SDA (DATA) and SCL (CLOCK) in addition to D+ and D-.

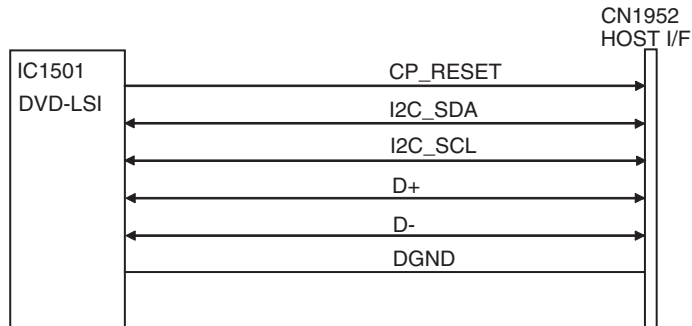


Fig. 14-1: USB Circuit

<Check Method>

1. USB Memory: Play a song from USB memory and check D+ and D- with the DGND1 standards.
2. iPod: Connect iPod and check CP_RESET, SDA and SCLOCK with the DGND1 standards until the Pioneer log appears. When iPod Touch or iPhone is connected, the logo is not displayed but only a check mark is displayed. Play a song from iPod and check D+/D- with the DGND1 standards.

When it does not conform to the standards, check appropriate line, main parts shown in the above figure, soldering of peripheral parts and malfunctions in parts.

No.	Checking spot (stylus)	Standard value 1	Standard value 2
1	CP_RESET	VCC33*0.7 or more	
2	SDATA	VCC33*0.7 or more	VCC33*0.2 or less
3	SCLOCK	VCC33*0.7 or more	VCC33*0.2 or less
4	D+	VCC33*0.7 or more	VCC33*0.3 or less
5	D-	VCC33*0.7 or more	VCC33*0.3 or less

*Until the pioneer log appears after connecting the iPod

*Until the pioneer log appears after connecting the iPod

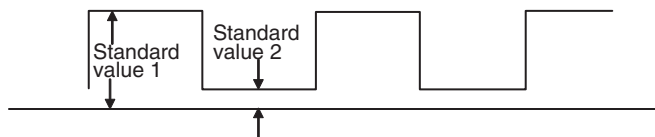
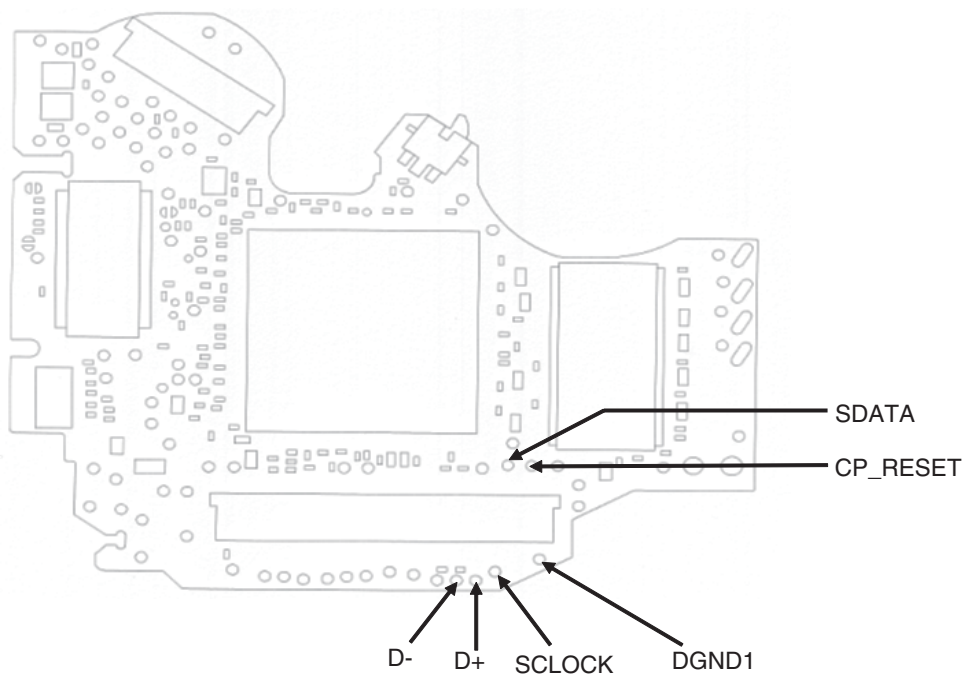


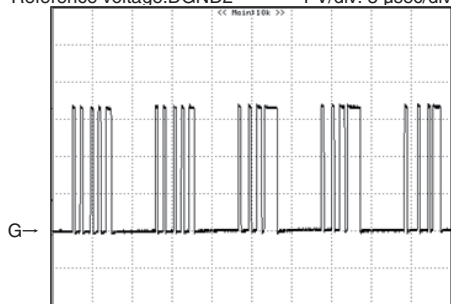
Fig.14.2: USB Circuit Communication Wave

Side A



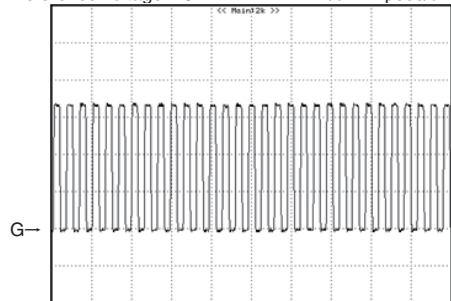
AUDIO

CH1 : ADOUT3
Reference voltage:DGND2 1 V/div. 5 μ sec/div



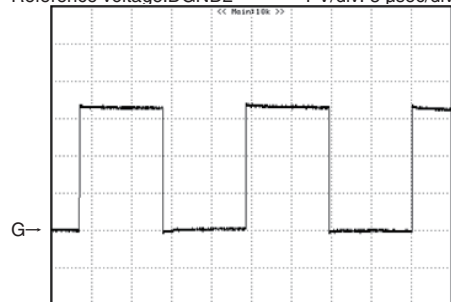
Waveform 1

CH1 : SRCK
Reference voltage:DGND2 1 V/div. 1 μ sec/div



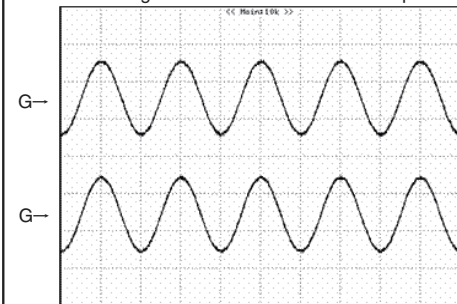
Waveform 2

CH1 : LRCK
Reference voltage:DGND2 1 V/div. 5 μ sec/div



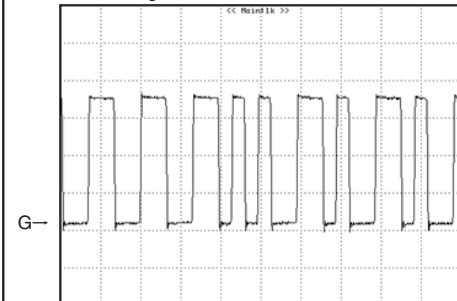
Waveform 3

CH1 : LO
CH2 : RO
Reference voltage:GNDAU2 2 V/div. 500 μ sec/div



Waveform 4

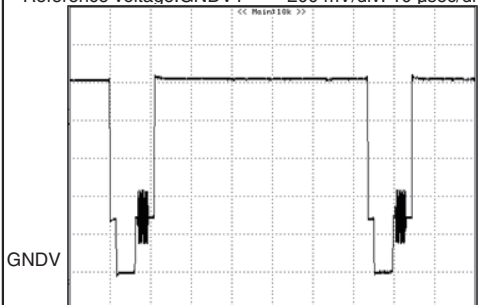
CH1 : IECOUT
Reference voltage:DGND2 1 V/div. 500 nsec/div



Waveform 5

VIDEO

[WHITE 100IRE]
CH1 : COMPO
Reference voltage:GNDV1 200 mV/div. 10 μ sec/div

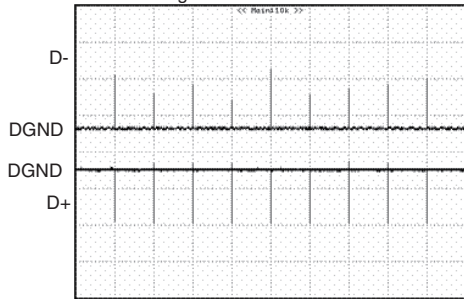


Waveform 6

USB, IPOD

A

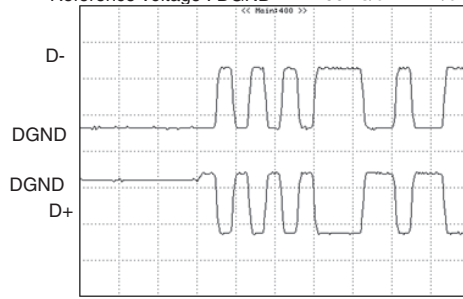
USB memory
D+/D- communication waveform
It checks with an oscilloscope.
Reference voltage : DGND 1 ms/div 2 V/div



Waveform 7

B

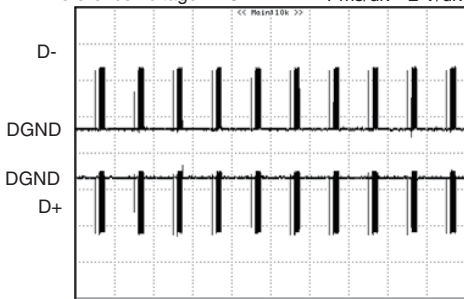
USB memory
D+/D- communication waveform
It checks with an oscilloscope.
Reference voltage : DGND 200 ns/div 2 V/div



Waveform 8

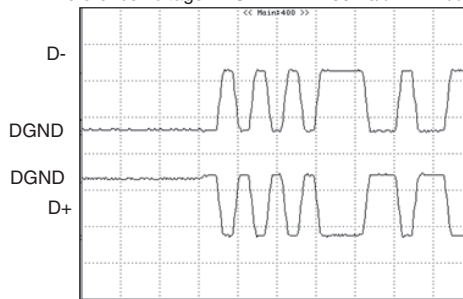
C

IPOD
D+/D- communication waveform
It checks with an oscilloscope.
Reference voltage : DGND 1 ms/div 2 V/div



Waveform 9

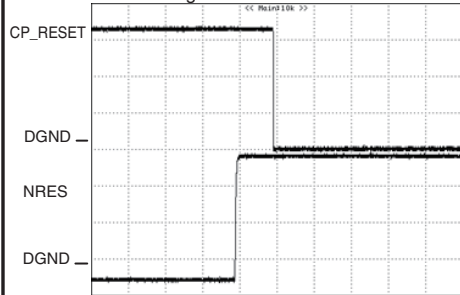
IPOD
D+/D- communication waveform
It checks with an oscilloscope.
Reference voltage : DGND 200 ns/div 2 V/div



Waveform 10

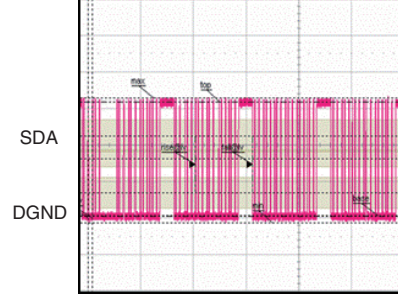
D

IPOD
CP_RESET signal
A relation with NRES, At the time of RESET release
(It checks with an oscilloscope.)
Reference voltage : DGND 20 ms/div 1 V/div



Waveform 11

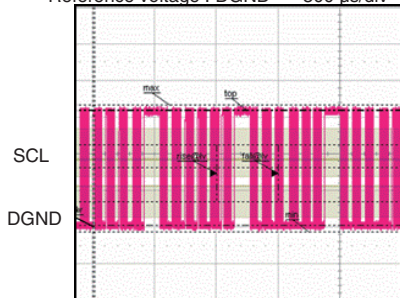
IPOD
SDA signal
It checks by LECORY.
Reference voltage : DGND 2 ms/div 1 V/div



Waveform 12

E

IPOD
SCL signal
It checks by LECORY.
Reference voltage : DGND 500 μs/div 1 V/div



Waveform 13

F

5.4 ERROR CODE LIST

Error status	OSD *1	UART *2	Meaning	Generation source			Method of reset		
				Disc	USB (MSC)	USB (iPod)	ACC Off/On	Source Off/On	Eject/ With no device
Media Error	UNPLAYABLE DISC	00h	A disc containing the unplayable format only	X	-	-	X	X	X
	INCOMPATIBLE DEVICE	00h	USB device that doesn't correspond	-	X	X	X	X	X
	UNPLAYABLE FILE	00h	USB device of format alone that cannot be reproduced	-	X	-	X	X	X
Open (No display)		10h	Door open error	X	-	-	*	*	*
Read Error	ERROR-02-99	20h	Transfer start error	X	-	-	X	X	X
Focus Error(Focus Error in mechanism set up)	ERROR-02-90	21h	Focus error	X	-	-	X	X	X
Surface Error	ERROR-02-9E	22h	Focus error during set up (A focus has never been achieved with that disc.)	X	-	-	-	-	X
Address not found (Invalid Track)	ERROR-02-80	23h	Address not found.	X	-	-	X	X	X
Spindle Lock	ERROR-02-91	24h	Spindle lock NG(the disc cannot rotate)	X	-	-	X	X	X
Carriage HOME	ERROR-02-92	25h	Carriage home NG (The pick up tries to return to carriage home, but it cannot go back and stopped.)	X	-	-	X	X	X
ID/SUBCODE Read Error	ERROR-02-94	26h	ID/SUBCODE Read Error (ID/SUBCODE cannot be read due to scratch or stain.)	X	-	-	X	X	X
AV CHIP decode Error	ERROR-02-9A	2Ah	AV CHIP decode NG(AV chip cannot be decoded.)	X	X	X	X	X	X
AV CHIP Recovery NG	ERROR-02-9B	2Bh	AV CHIP recovery NG	X	X	-	X	X	X
Error of PLAY BACK Mode Status	ERROR-02-9C	2Ch	Playback state error (An error due to software bug.)	X	X	-	X	X	X
Disc Data Error	ERROR-02-9D	2Dh	Disc Data NG	X	-	-	X	X	X
Temp Error(In Case of High Temperature)	THERMAL PROTECTION IN MOTION	30h	High temperature(Playback is stopped because the pick up temperature is 89 C or higher.)	X	-	-	X	-	-
No Disc (including Disc loading and ejecting)	(No display)	40h	Disc has not been inserted. (Including Load in process or Eject in process.)	X	-	-	*	*	*
Loading_Mecha Error	(No display)	50h	Loading mechanism error (The disc cannot be clamped.)	X	X *11	X *11	X	-	X *12
Communication fault attesting iPod	ERROR-02-60	60h	Communication fault attesting iPod	X *13	-	X	X	-	X *14
iPod authentication data is abnormal	ERROR-02-61	61h	iPod authentication data is abnormal	X *13	-	X	X	-	X *14
iPod attestation retrying failure	ERROR-02-62	62h	iPod attestation retrying failure	X *13	-	X	X	-	X *14
iPod attestation time out	ERROR-02-63	63h	iPod attestation time out	X *13	-	X	X	-	X *14
Error when iPod is connected/ It is generated STALL by the USB communication	ERROR-02-64	64h	Error when iPod is connected/ It is generated STALL by the USB communication	-	-	X	X	-	X
Error setting iPod	ERROR-02-65	65h	Error setting iPod	-	-	X	X	-	X
Demand timeout when initial is communicated	ERROR-02-66	66h	Demand timeout when initial is communicated	-	-	X	X	-	X
Protocol version non-correspondence	ERROR-02-67	67h	Protocol version non-correspondence (It is necessary to Version Up the iPod by iTunes.)	-	-	X	X	-	X
Timeout when protocol version is judged	ERROR-02-68	68h	Timeout when protocol version is judged	-	-	X	X	-	X
No songs error	(No display)	69h	iPod does not have music. (It is necessary to put music into iPod by iTunes)	-	-	X	X	-	X
iPod control forwarding/ Intarapta forwarding error	ERROR-02-6A	6Ah	iPod control forwarding / Intarapta forwarding error	-	-	X	X	-	X
Demand timeout iPod's reproducing	ERROR-02-6B	6Bh	Demand timeout iPod's reproducing	-	-	X	X	-	X
Remote switch error	ERROR-02-6C	6Ch	Remote switch error	-	-	X	X	-	X
Remote switch demand timeout	ERROR-02-6D	6Dh	Remote switch demand timeout	-	-	X	X	-	X
Demand timeout to an iPodApI(Pandora)	ERROR-02-6E	6Eh	Demand timeout to an iPodApI(Pandora)	-	-	X	X	-	X
DRM Error	PROTECTED DISC	70h	DRM error (All music cannot be played back due to DRM.)	X	-	-	X	X	X
	NO ACCESSIBLE DATA AVAILABLE	70h	DRM error (All music cannot be played back due to DRM.)	-	X	-	X	X	X
Region code Error	DIFFERENT REGION DISC	90h	Region code NG (Unable to be played back due to incorrect mechanism region.)	X	-	-	X	X	X
CPRM*7 Key Error *8	UNPLAYABLE DISC	93h	Key Error for playback	X	-	-	X	-	X
REQUEST Error	ERROR-02-A0	A0h	REQUEST error	X	-	-	X	X	X
Failure in issuing read command (chip dependent)	ERROR-02-A1	A1h	Failure in issuing the read command	X	-	-	X	X	X
Adjustment of L0 is NG.	ERROR-02-A2	A2h	L0 adjustment is NG.	X	-	-	X	X	X
Adjustment of L1 is NG.	ERROR-02-A3	A3h	L1 adjustment is NG.	X	-	-	X	X	X
LD system NG	ERROR-02-A4	A4h	LD system NG	X	-	-	X	X	X
Gain adjustment system NG.	ERROR-02-A5	A5h	Gain adjustment system NG.	X	-	-	X	X	X
Gain determining system NG.	ERROR-02-A6	A6h	Gain determining system NG.	X	-	-	X	X	X
Servo initial setting related items NG.	ERROR-02-A7	A7h	Servo initial setting related items NG.	X	-	-	X	X	X
Disc is not clamped yet.	ERROR-02-A8	A8h	Disc is not clamped yet.	X	-	-	X	X	X
Tracking system NG.	ERROR-02-A9	A9h	Tracking system NG	X	-	-	X	X	X
Media setting system NG.	ERROR-02-AA	AAh	Media setting system NG	X	-	-	X	X	X
Focus Error	ERROR-02-AB	ABh	JUMP over layers NG	X	-	-	X	X	X
Error of PLAY BACK Mode Status	ERROR-02-B0	B0h	Navigation command error	X	-	-	X	X	X
Error of PLAY BACK Mode Status	ERROR-02-B1	B1h	Retry over	X	-	-	X	X	X
DivX DRM Inofmation Update Error *10	ERROR-02-C1	C1h	DivX DRM inofmation update error	X	-	-	X	-	-
Error when MCS is connected/ It is generated STALL by the USB communication	ERROR-02-D0	D0h	Error when MCS is connected / It is generated STALL by the USB communication	-	X	-	-	-	X
CBW and CSW forwarding error	ERROR-02-D1	D1h	CBW and CSW forwarding error	-	X	-	-	-	X
Audio class band securing failure	ERROR-02-D8	D8h	Audio class band securing failure	-	-	X	X	-	X
Audio class FS setting failure	ERROR-02-D9	D9h	Audio class FS setting failure	-	-	X	X	-	X
Undefined Error	ERROR-FF-FF	FFh	Undefined error	X	-	-	X	X	X

X : Cancel the error by operation. - : Error is not cancelled by operation. * : No setting

*1 A content displayed on OSD. As for the items having multiple display patterns, the upper row is for the Japanese version Full GUI, and the lower row is for the Touch Panel model and Full GUI (English version).

*2 A parameter of UART command, such as "receipt error notice", that the DVD mechanism transmits.

*7 CPRM(Content Protection for Recordable Media) : A copyright protection technique for digital contents used for re-writable DVD or memory card.

*8 DVD-VR model only.

*10 This occurs when the DRM information update notice is sent from the DVD mecha but no DRM information update response is returned.

*11 Although it is USB source, it notifies as an error of DISC source.

*12 Although it is USB source, it cancels only by Disc eject.

*13 Although it is DISC source, it notifies as an error of USB source.

*14 Although it is DISC source, It cancels only without Device.

Common

Message	Cause	Action
AMP Error	This unit fails to operate or the speaker connection is incorrect; the protective circuit is activated.	Check the speaker connection. If the message fails to disappear even after the engine is switched off/on, contact your dealer or an authorized Pioneer Service Station for assistance.

Tuner

Message	Cause	Action
No Data Provided	This unit cannot receive artist name/song title information.	Move to the desirable location with good reception.
No Data	This unit cannot receive program service name information.	Move to the desirable location with good reception.

SiriusXM Satellite Radio

Message	Cause	Action
Check Antenna	The antenna connection is incorrect.	Check the antenna connection. If the message fails to disappear even after the engine is switched off/on, contact your dealer or an authorized Pioneer Service Station for assistance.

Check Tuner	The SiriusXM Connect Vehicle Tuner connection is incorrect or the power failed.	Check the tuner connection and battery voltage. If the message fails to disappear even after the engine is switched off/on, contact your dealer or an authorized Pioneer Service Station for assistance.
--------------------	---	--

No Signal	The SiriusXM Connect Vehicle Tuner is having difficulty receiving the SiriusXM satellite signal.	• Verify that your vehicle is outdoors with a clear view of the southern sky. • Verify that the SiriusXM magnetic mount antenna is mounted on a metal surface on the outside the vehicle. • Move the SiriusXM antenna away from any obstructions.
------------------	--	---

Message	Cause	Action
Subscription Updated	This unit has detected a change in your SiriusXM subscription status.	Press any keys to clear the message.

Channel Not Available	The channel that you have requested is not a valid SiriusXM channel.	Check the SiriusXM channel lineup.
------------------------------	--	------------------------------------

Channel Not Subscribed.	The channel that you have requested is not included in your SiriusXM subscription package.	Check the content of your SiriusXM subscription package.
--------------------------------	--	--

Channel Locked	Locked by the radio Parental Control feature.	Release the channel lock.
-----------------------	---	---------------------------

External storage device (USB, SD)

Message	Cause	Action (Reference page)
---------	-------	-------------------------

Unplayable File	This type of file cannot be played on this unit.	Select a file that can be played.
	There are no songs.	Transfer the audio files to the USB storage device and connect.
	Security for the connected USB memory is enabled.	Follow the USB memory instructions to disable security.

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.
--------------------	--	---

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

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

Incompatible USB	The connected USB 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.
-------------------------	---	---

Message	Cause	Action (Reference page)
	The USB device is not formatted with FAT12, FAT16 or FAT32.	The connected USB device should be formatted with FAT12, FAT16 or FAT32.

Incompatible SD	Unsupported SD card is inserted.	Use the supported SD card.
------------------------	----------------------------------	----------------------------

	Non-compatible SD storage device	Remove your device and replace it with a compatible SD storage device.
--	----------------------------------	--

	The SD device is not formatted with FAT12, FAT16 or FAT32.	The connected SD device should be formatted with FAT12, FAT16 or FAT32.
--	--	---

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 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.
--	--	--

Error-02-9X/-DX	Communication failed.	Perform one of the following operations. –Turn the ignition switch OFF and back ON. –Disconnect the USB storage device. –Change to a different source. Then, return to the USB source.
------------------------	-----------------------	---

This DivX rental has expired.	The inserted external storage device contains expired DivX VOD content.	Select a file that can be played.
--------------------------------------	---	-----------------------------------

Video resolution not supported	The inserted external storage device contains a high definition DivX/MPEG-1/MPEG-2/MPEG-4 file.	Select a file that can be played.
---------------------------------------	---	-----------------------------------

Message	Cause	Action (Reference page)
It is not possible to write it in the flash.	This unit's flash memory used as the temporary storage area is full.	Select a file that can be played.
Your device is not authorized to play this DivX protected video.	This unit's DivX registration code has not been authorized by the DivX VOD contents provider.	Register this unit to the DivX VOD contents provider.
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.
Video frame rate not supported	DivX file's frame rate is more than 30 fps.	Select a file that can be played.
Audio Format not supported	This type of file is not supported on this unit.	Select a file that can be played.
Creating the Database has failed.	The mode was switched to video or JPEG image display while the database was being created.	Create the database again.

iPod

Message	Cause	Action
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.
Error-02-6X/-9X/-DX	Communication failed.	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-02-67	The iPod firmware version is old.	Update the iPod version.
Stop	There are no songs.	Transfer songs to the iPod.
	There are no songs in the current list.	Select a list that contains songs.

Message	Cause	Action
Not Found	No related songs.	Transfer songs to the iPod.

iTunes tagging

Message	Cause	Action
iPod full. Tags not transferred.	Memory used for tag information on the iPod is full.	Sync the iPod with iTunes and clean up the tagged playlist.
Memory full. Tags not stored. Connect iPod.	This unit's flash memory used as the temporary storage area is full.	The tag information on this unit is transferred to the iPod automatically when an iPod is connected.
Tag transfer failed. Re-connect your iPod.	This unit's tag information cannot transfer to the iPod.	Check the iPod and try again.
Tag store failed.	Tag information cannot be stored in this unit.	Try again.
Error-8D	Built-in FLASH ROM encountered an error.	Turn the ignition OFF or ON.
Already stored.	This tag information is already stored in memory.	Tag information can only be saved once for any given song. Tag information cannot be saved for the same song more than once.

Bluetooth

Message	Cause	Action
Error-10	The power failed for the Bluetooth module of this unit.	Turn the ignition switch OFF and then to ACC or ON. If the error message is still displayed after performing the above action, please contact your dealer or an authorized Pioneer Service Station.

Pandora®

Message	Cause	Action
Error-19	Communication failed.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.

Message	Cause	Action
Start up the Pandora Application from your Device.	The Pandora application has not started running yet.	Start up the Pandora application from your iPhone.
Unable to save thumb rating. Try again later.	Unable to save thumb rating.	Try again later.
Unable to save Bookmark. Try again later.	Unable to save Bookmark.	Try again later.
Pandora system maintenance. Try again later.	Pandora system is undergoing maintenance.	Try again later.
Skip limit reached.	Skip limit reached.	Do not exceed the skip limit.
This version of the Pandora Application is not supported.	This version of the Pandora application is not supported.	Connect an iPhone that has a compatible version of the Pandora application installed.
Check Device	Device error message displayed in the Pandora application.	Please check your iPhone.
Pandora is unable to play music. Please see your Device.	Unable to play music from Pandora.	Please check your iPhone.
Create station within the Pandora Application on Device.	No station found.	Create a station in the Pandora application on your iPhone.
No Active Station	No station selected.	Select a station.
Communication error occurred. Please reconnect your device.	If there is no ACK after 10 attempted retries at 750 ms, the accessory should assume that communication is interrupted and disconnect from PandoraLink.	Please reconnect your iPhone and try again.
Device has not been registered. Go to "Bluetooth Connection Menu" to register.	No Bluetooth device found.	Follow the instructions that appear on the screen.

A

Message	Cause	Action
Connection failed. Press "Connect" to retry.	Bluetooth connection or connection to the Pandora application failed.	Follow the instructions that appear on the screen.
Disconnected. Press "Connect" to reconnect the device.	Bluetooth connection or connection to the Pandora application lost.	Follow the instructions that appear on the screen.

Message	Cause	Action
Error. Please check noise.	The surrounding noise level is too high.	• Stop your car in a place that is quiet, and switch off the engine, air conditioner and heater. • Set the microphone correctly.
Error. Please check battery.	Power is not being supplied from the battery to this unit.	• Connect the battery correctly. • Check the battery voltage.

B

Understanding auto EQ error messages

When correct measurement of the car's interior acoustic characteristics is not possible using auto EQ, an error message may appear on the display. In such cases, refer to the table below to see what the problem is and how it may be corrected. After checking, try again.

Message	Cause	Action
Please connect the microphone for measurement. When finished, please push HOME key.	The microphone is not connected.	Plug the optional microphone securely into the jack.
Error. Please check xxxx speaker.	The microphone cannot pick up the measuring tone of a speaker.	• Confirm that the speakers are connected correctly. • Correct the input level setting of the power amp connected to the speakers. • Plug the microphone securely into the jack.

D

Understanding messages

Messages	Translation
Screen image may appear reversed.	Pioneer recommends the use of a camera which outputs mirror-reversed images. Otherwise, the screen image will appear reversed.

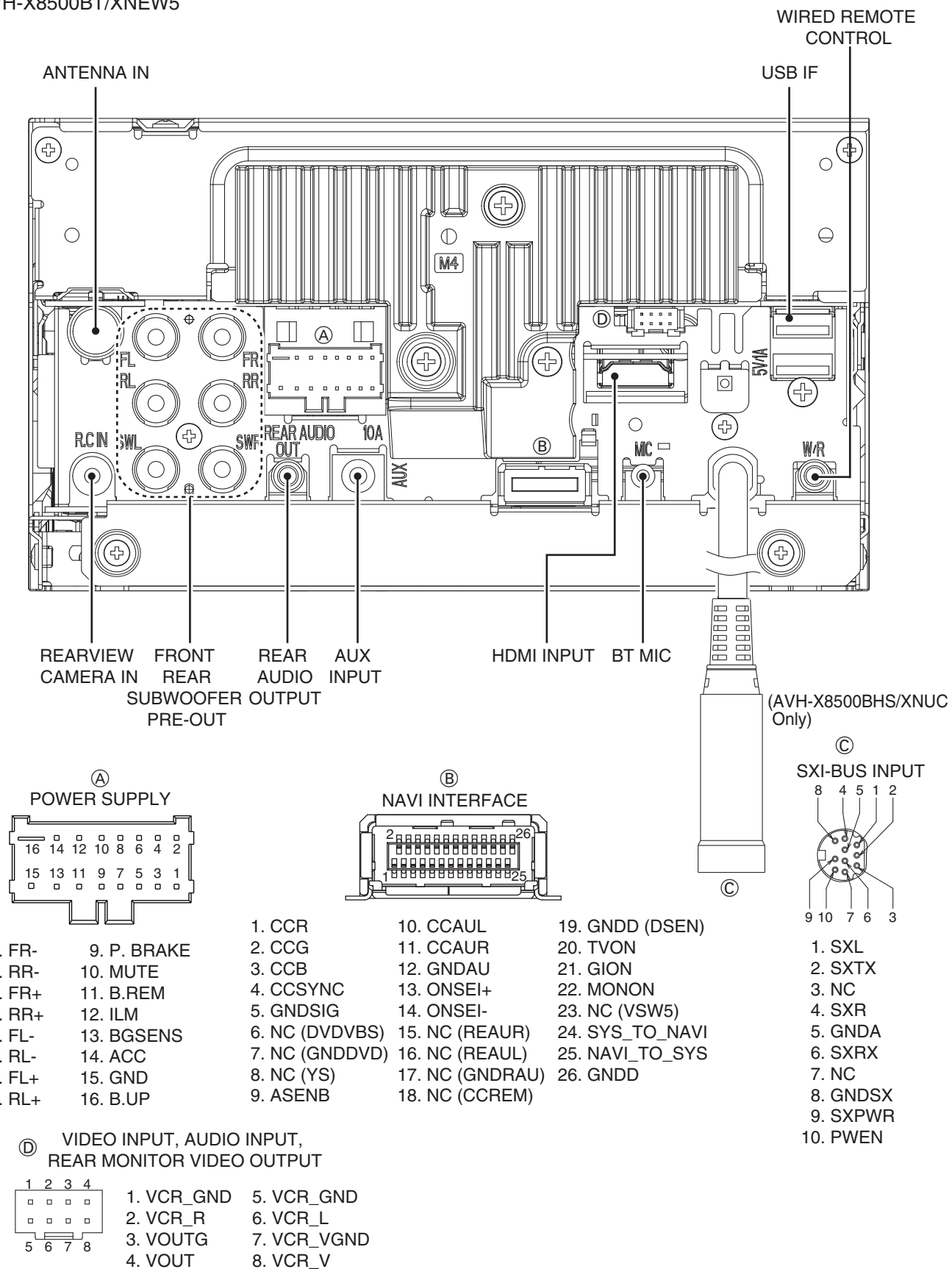
C

E

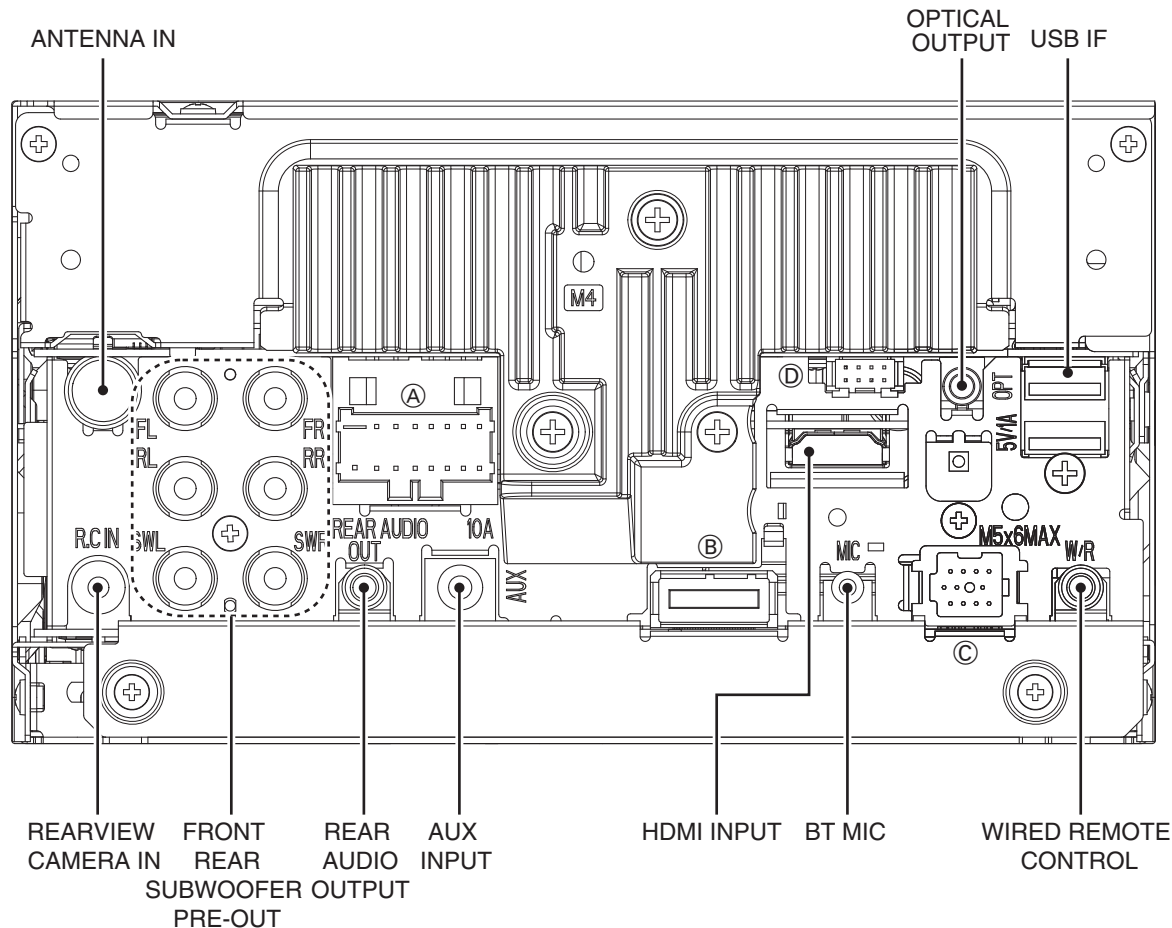
F

5.5 CONNECTOR FUNCTION DESCRIPTION

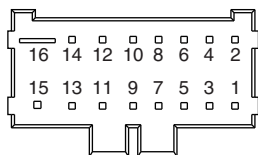
AVH-X8500BHS/XNUC
AVH-X8500BT/XNEW5



A AVH-X8500BT/XNUW5
 AVH-X8550BT/XNRC, /XNRD, /XNRI
 AVH-X8590BT/XNID

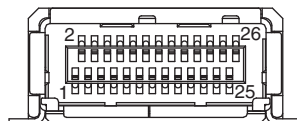


Ⓐ POWER SUPPLY



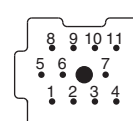
- | | |
|--------|-------------|
| 1. FR- | 9. P. BRAKE |
| 2. RR- | 10. MUTE |
| 3. FR+ | 11. B.REM |
| 4. RR+ | 12. ILM |
| 5. FL- | 13. BGSSENS |
| 6. RL- | 14. ACC |
| 7. FL+ | 15. GND |
| 8. RL+ | 16. B.UP |

Ⓑ NAVI INTERFACE



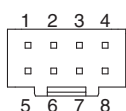
- | | | |
|----------------|-----------------|-----------------|
| 1. CCR | 10. CCAUL | 19. GNDD (DSEN) |
| 2. CCG | 11. CCAUR | 20. TVON |
| 3. CCB | 12. GNDAU | 21. GION |
| 4. CCSYNC | 13. ONSEI+ | 22. MONON |
| 5. GNDSIG | 14. ONSEI- | 23. NC (VSW5) |
| 6. NC (DVDVBS) | 15. NC (REAU) | 24. SYS_TO_NAVI |
| 7. NC (GNDDVD) | 16. NC (REAU) | 25. NAVI_TO_SYS |
| 8. NC (YS) | 17. NC (GNDRAU) | 26. GNDD |
| 9. ASEN | 18. NC (CCREM) | |

Ⓒ IP-BUS INPUT



- | |
|------------------|
| 1. BUS+ |
| 2. BUSG |
| 3. BUSLG |
| 4. NC(MAINTTEST) |
| 5. BUS- |
| 6. BUSRG |
| 7. BUSL+ |
| 8. ASENBO |
| 9. BUSR+ |
| 10. BUSR- |
| 11. BUSL- |

Ⓓ VIDEO INPUT, AUDIO INPUT,
 REAR MONITOR VIDEO OUTPUT



- | | |
|------------|-------------|
| 1. VCR_GND | 5. VCR_GND |
| 2. VCR_R | 6. VCR_L |
| 3. VOUTG | 7. VCR_VGND |
| 4. VOUT | 8. VCR_V |

6. SERVICE MODE

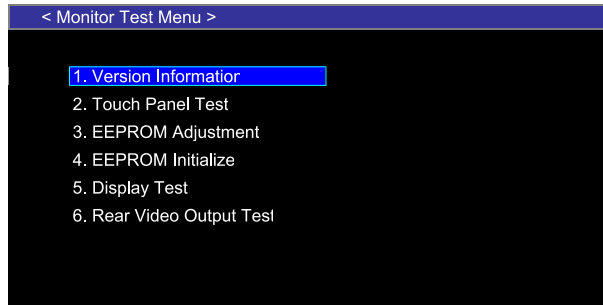
6.1 MONITOR TEST MODE

MONITOR TEST MODE MENU SCREEN

Method for Mode IN

While pressing [Reverse] + [Eject] key, restart the system.

Display specification



Operational description	Remote controller key
Selection cursor up movement	Up 
Selection cursor down movement	Down 
Menu enter	Band

1. Version Information

Method for Mode IN

While pressing [Mute] + [Mode] key, restart the system.
Choose "1. Version Information" among the Monitor Test Menu screen.

Display specification

Page: 1

< Version Information >			Page : 1 / 5
	Ver.	Unit No.	
System	: XX.XX	XXXXXXXXXX	
MMD	: XX.XX (RXXX)	XXXXXXXXXX	
	Ver.	Region	Model
DVD	: XX.XX.XX.XX	X	XX
Bluetooth	XXXXXXXXXXXXXX		
< State >			
Navi	: Connect	Eject Lock	: OFF
EEPROM	: Init OK		

<Navi>

When Navi is connected : Connect
When Navi is not connected : -

<EEPRM>

When set value initialization is performed normally : Init OK
When set value initialization is not performed normally : -

<Eject Lock>

When Eject Lock is on : ON
When Eject Lock is canceled : OFF

Operational description	Remote controller key
Return to test mode menu	RETURN
Page up	NEXT 
Page down	PREV 

Page: 2

< Version Information >				Page : 2 / 5
	Ver.			
Audio SDK	: XX.XX			
Display SDK	: XX.XX			
SH-4A USB MSC Driver	: XX.XX			
SH-4A iACS Middleware	: XX.XX			
Sound Designer Middleware	: XX.XX			
Zlib	: XX.XX			
PNG	: XX.XX			

Page: 3

< Version Information >				Page : 3 / 5
	Ver.			
1.Logical Driver	: XXXXXXXX			
2.File System	: XXXXXXXXXXXXXXXXXXXXXXXXXXXX			
3.SD Card Driver	: XXXXXXXXXXXXXXXXXXXXXXXXXXXX			
4.VPU5F Common	: XXXXXXXX			
5.VPU5F MP4	: XXXXXXXX			
6.SH4-A MP4 File	: XXXXXXXX			
7.VPU4 MP4&H.264 Decode	: XXXXXXXX			
8.VPU5F DivX Decoder	: XXXXXXXX			

Page: 4

< Version Information >				Page : 4 / 5
	Ver.			
9.VPU4WM WMV9 Decode	: XXXXXXXX			
10.SH Super Resolution	: XXXXXXXX			
11.JPU Driver	: XXXXXXXX			
12.JPU Middle	: XXXXXXXX			
13.SH4-A AAC Decode	: XXXXXXXX			
14.SH4-A MP3 Decode	: XXXXXXXX			
15.SH4-A WMA Decode	: XXXXXXXX			
16.SPU2 AAC Decode	: XXXXXXXX			

Page: 5

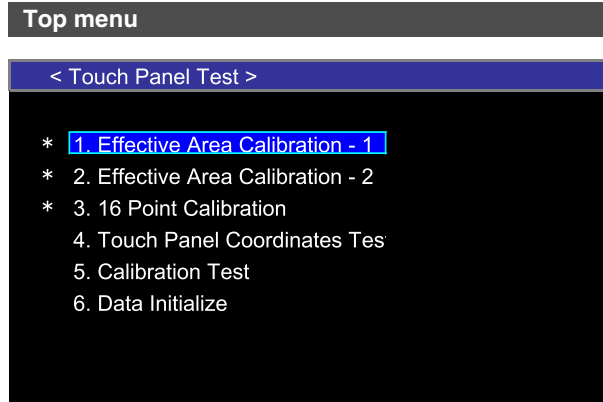
< Version Information >				Page : 5 / 5
	Ver.			
17.SPU2 WMA Decode	: XXXXXXXX			
18.SPU2 Dolby Digital Decoder	: XXXXXXXX			
19.SPU2 MP3 Decode	: XXXXXXXX			

2. Touch Panel Test

Method for Mode IN

While pressing [Rev] + [Mode] key, restart the system.
Choose "2. Touch Panel Test" among the Monitor Test Menu screen.

Display specification



- ◆ Condition that the mark meaning adjustment is completed, (*) is lit
(the mark is lit when any of one condition is satisfied)
 - ◇ Outermost circle check -1
 - When "Outermost circle check of line calibration-1" is finished normally
 - When "Outermost circle check of line calibration-2" is finished normally
 - > Since "Outermost circle check of line calibration-2" includes "Outermost circle check of line calibration-1."
 - ◇ Outermost circle check -2
 - When "Outermost circle check of line calibration-2" is finished normally
 - ◇ Calibration check
 - When "Calibration check of line calibration" is finished normally
- ◆ Condition that the mark meaning adjustment is completed, (*) is extinguished
(the mark is extinguished when any of one condition is satisfied)
 - ◇ Outermost circle check -1
 - When "conditions that the mark is lit" are not satisfied
 - When "Data Initialize is executed"
 - When "EEPROM initialize is executed"
 - ◇ Outermost circle check -2
 - When "conditions that the mark is lit" are not satisfied
 - When "Outermost circle check of line calibration-1" is finished abnormally
 - > Since "Outermost circle check of line calibration-2" includes "Outermost circle check of line calibration-1."
 - When "Data Initialize is executed"
 - When "EEPROM initialize is executed"
 - ◇ Calibration check
 - When "conditions that the mark is lit" are not satisfied
 - When "Data Initialize is executed"
 - When "EEPROM initialize is executed"

Operational description	Remote controller key
Return to test mode menu	RETURN
Selection cursor up movement	Up
Selection cursor down movement	Down
Menu enter	Band

1. Effective Area Calibration - 1

Outermost circle check screen

First point

	before	after
Sampling Max	(FFFF , FFFF)	(FFFF , FFFF)
Sampling Min	(FFFF , FFFF)	(FFFF , FFFF)
Offset	(FFFF , FFFF)	(FFFF , FFFF)
Gain	(FFFF , FFFF)	(FFFF , FFFF)
Distance	(FFFF , FFFF)	(FFFF , FFFF)
DistanceBase	(FFFF , FFFF)	(FFFF , FFFF)

Second point

	before	after
Sampling Max	(FFFF , FFFF)	(FFFF , FFFF)
Sampling Min	(FFFF , FFFF)	(FFFF , FFFF)
Offset	(FFFF , FFFF)	(FFFF , FFFF)
Gain	(FFFF , FFFF)	(FFFF , FFFF)
Distance	(FFFF , FFFF)	(FFFF , FFFF)
DistanceBase	(FFFF , FFFF)	(FFFF , FFFF)

Operational description

Check is interrupted

Remote controller key

Band

Outermost circle check result screen

Finished normally

	before	after
Sampling Max	(FFFF , FFFF)	(FFFF , FFFF)
Sampling Min	(FFFF , FFFF)	(FFFF , FFFF)
Offset	(FFFF , FFFF)	(FFFF , FFFF)
Gain	(FFFF , FFFF)	(FFFF , FFFF)
Distance	(FFFF , FFFF)	(FFFF , FFFF)
DistanceBase	(FFFF , FFFF)	(FFFF , FFFF)

Result : O.K.

Finished abnormally

	before	after
Sampling Max	(FFFF , FFFF)	(FFFF , FFFF)
Sampling Min	(FFFF , FFFF)	(FFFF , FFFF)
Offset	(FFFF , FFFF)	(FFFF , FFFF)
Gain	(FFFF , FFFF)	(FFFF , FFFF)
Distance	(FFFF , FFFF)	(FFFF , FFFF)
DistanceBase	(FFFF , FFFF)	(FFFF , FFFF)

Result : N G

Operational description

Check is finished

Remote controller key

Band

2. Effective Area Calibration - 2

Outermost circle check screen

First point

	before	after
Sampling Max	(FFFF , FFFF)	(FFFF , FFFF)
Sampling Min	(FFFF , FFFF)	(FFFF , FFFF)
Offset	(FFFF , FFFF)	(FFFF , FFFF)
Gain	(FFFF , FFFF)	(FFFF , FFFF)
Distance	(FFFF , FFFF)	(FFFF , FFFF)
DistanceBase	(FFFF , FFFF)	(FFFF , FFFF)

Second point

	before	after
Sampling Max	(FFFF , FFFF)	(FFFF , FFFF)
Sampling Min	(FFFF , FFFF)	(FFFF , FFFF)
Offset	(FFFF , FFFF)	(FFFF , FFFF)
Gain	(FFFF , FFFF)	(FFFF , FFFF)
Distance	(FFFF , FFFF)	(FFFF , FFFF)
DistanceBase	(FFFF , FFFF)	(FFFF , FFFF)

3rd point

	before	after
Sampling Max	(FFFF , FFFF)	(FFFF , FFFF)
Sampling Min	(FFFF , FFFF)	(FFFF , FFFF)
Offset	(FFFF , FFFF)	(FFFF , FFFF)
Gain	(FFFF , FFFF)	(FFFF , FFFF)
Distance	(FFFF , FFFF)	(FFFF , FFFF)
DistanceBase	(FFFF , FFFF)	(FFFF , FFFF)

4th point

	before	after
Sampling Max	(FFFF , FFFF)	(FFFF , FFFF)
Sampling Min	(FFFF , FFFF)	(FFFF , FFFF)
Offset	(FFFF , FFFF)	(FFFF , FFFF)
Gain	(FFFF , FFFF)	(FFFF , FFFF)
Distance	(FFFF , FFFF)	(FFFF , FFFF)
DistanceBase	(FFFF , FFFF)	(FFFF , FFFF)

Operational description	Remote controller key
Check is interrupted	Band

Outermost circle check result screen

Finished normally

	before	after
Sampling Max	(FFFF , FFFF)	(FFFF , FFFF)
Sampling Min	(FFFF , FFFF)	(FFFF , FFFF)
Offset	(FFFF , FFFF)	(FFFF , FFFF)
Gain	(FFFF , FFFF)	(FFFF , FFFF)
Distance	(FFFF , FFFF)	(FFFF , FFFF)
DistanceBase	(FFFF , FFFF)	(FFFF , FFFF)
Result : O.K.		

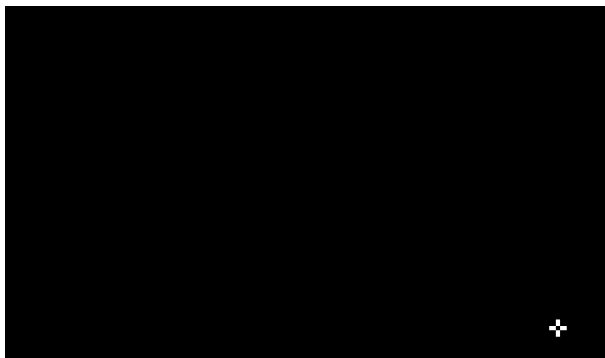
Finished abnormally

	before	after
Sampling Max	(FFFF , FFFF)	(FFFF , FFFF)
Sampling Min	(FFFF , FFFF)	(FFFF , FFFF)
Offset	(FFFF , FFFF)	(FFFF , FFFF)
Gain	(FFFF , FFFF)	(FFFF , FFFF)
Distance	(FFFF , FFFF)	(FFFF , FFFF)
DistanceBase	(FFFF , FFFF)	(FFFF , FFFF)
Result : N G		

Operational description	Remote controller key
Check is finished	Band

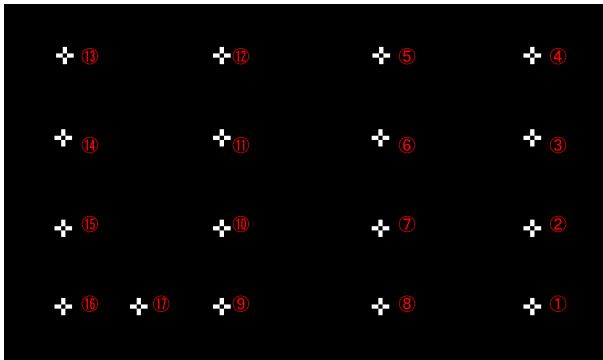
3. 16 Point Calibration

Calibration check screen



Touch the cursor [+] displayed on the screen. By touching it correctly, it disappears and another cursor appears. By repeating this action 16 times, obtain calibration value of each [+].
When touching the last 17th cursor, calibration values at 16 points and information of normal finish in 17 bytes are written in EEPROM and the screen returns to TOP menu by pressing a key.

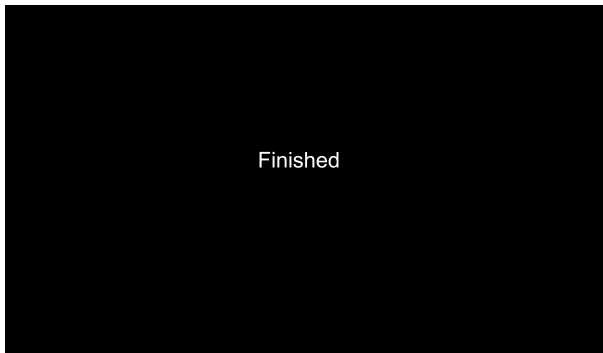
A



B

Operational description	Remote controller key
Return to top menu	Band

Calibration check result screen

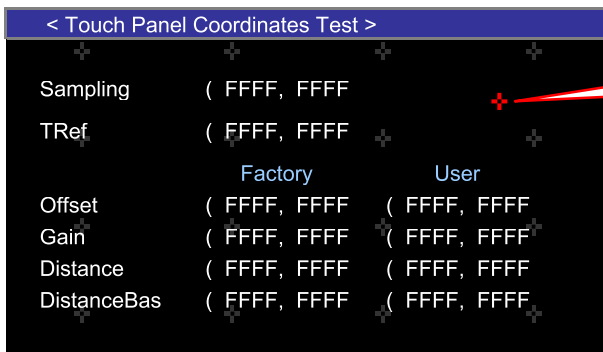


C

Operational description	Remote controller key
Return to top menu	Band

4. Touch Panel Coordinates Test

D



[+] is displayed at a touched place.
(Two [+] are displayed by touching two places.)

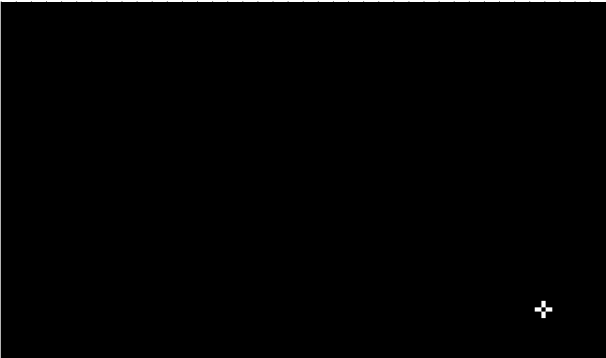
E

Operational description	Remote controller key
Return to top menu	RETURN

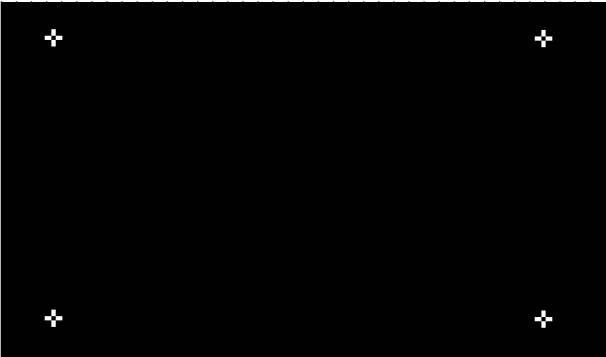
F

5. Calibration Test

Calibration confirmation screen

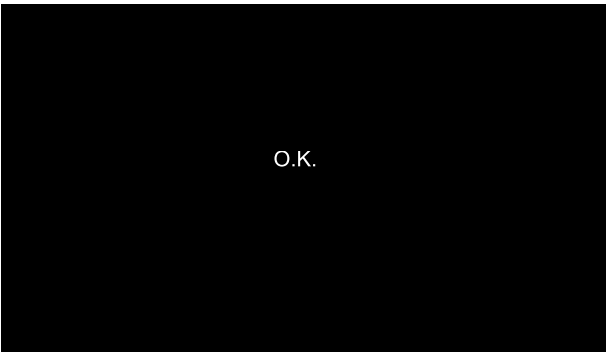


Touch the cursor [+] displayed on the screen. By touching it correctly, it disappears and another cursor appears. Otherwise, the cursor is displayed in red. Repeating this action for 4 points and by pressing the last 4th point, "O.K." is displayed.



Operational description	Remote controller key
Return to top menu	RETURN

Calibration confirmation result screen



Operational description	Remote controller key
Return to top menu	RETURN

6. Data Initialize

< Touch Panel Test >

- * Factory Range Initialize
- * Factory Calibration Initialize
- * User Range Initialize
- * User Calibration Initialize

◆ Condition that the mark meaning adjustment is completed, (*) is lit
(the mark is lit when any of one condition is satisfied)

- ◇ Outermost circle check
 - When "Outermost circle check of line calibration-1" is finished normally
 - When "Outermost circle check of line calibration-2" is finished normally
- ◇ Calibration check
 - When "Calibration check of line calibration" is finished normally
- ◇ Outermost circle check of user calibration
 - When "Outermost circle check of user calibration" is finished normally
- ◇ User calibration check
 - When "Calibration check of user calibration" is finished normally

◆ Condition that the mark meaning adjustment is completed, (*) is extinguished
(the mark is extinguished when any of one condition is satisfied)

- ◇ Outermost circle check
 - When "conditions that the mark is lit" are not satisfied
 - When "Data Initialize is executed"
 - When "EEPROM initialize is executed"
- ◇ Calibration check
 - When "conditions that the mark is lit" are not satisfied
 - When "Data Initialize is executed"
 - When "EEPROM initialize is executed"
- ◇ Outermost circle check of user calibration
 - When "conditions that the mark is lit" are not satisfied
 - When "Data initialize is executed"
 - When "EEPROM initialize is executed"
 - When Outermost circle check of line calibration or 16-point adjustment is finished normally after Outermost circle check of user calibration is finished normally
- ◇ User calibration check
 - When "conditions that the mark is lit" are not satisfied
 - When "Data initialize is executed"
 - When "EEPROM initialize is executed"
 - When Outermost circle check of line calibration or 16-point adjustment is finished normally after 16-point adjustment of user calibration is finished normally

Operational description	Remote controller key
Return to test mode menu	RETURN
Selection cursor up movement	Up 
Selection cursor down movement	Down 
Menu enter	Band

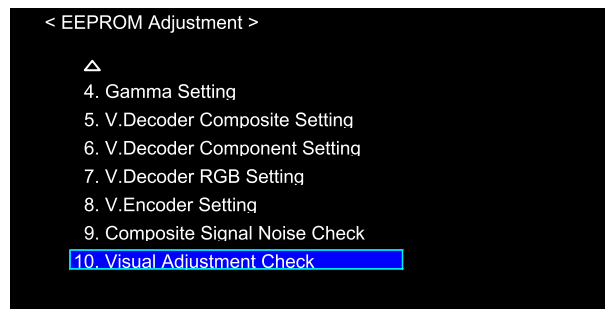
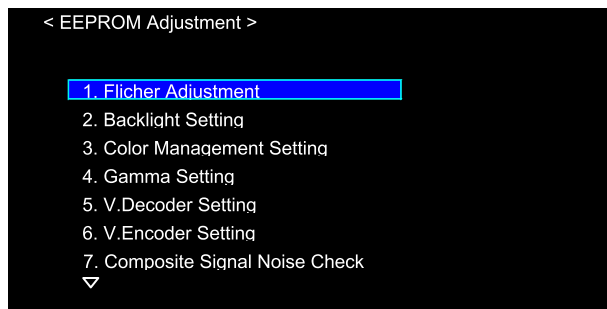
3. EEPROM Adjustment

Method for Mode IN

Choose "3. EEPROM Adjustment" among the Monitor Test Menu screen.

Display specification

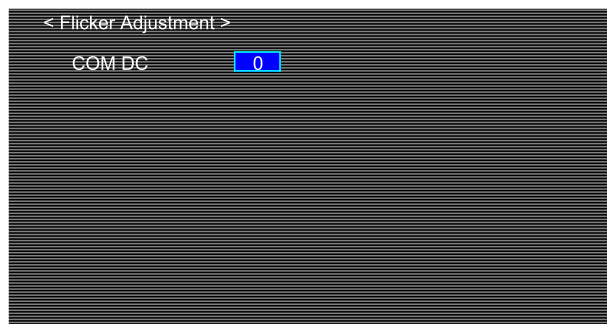
Top menu



Operational description	Remote controller key
Return to test mode menu	RETURN
Selection cursor up movement	Up
Selection cursor down movement	Down
Menu enter	Band

1. Flicker Adjustment

1 dot stripe image of black and gray (50% white) will appear.
Adjust the number to minimize the flicker.



Operational description	Remote controller key
Return to top menu	RETURN
-1	REV
+1	FF

Following items in EEPROM Adjustment menu are not used on service.

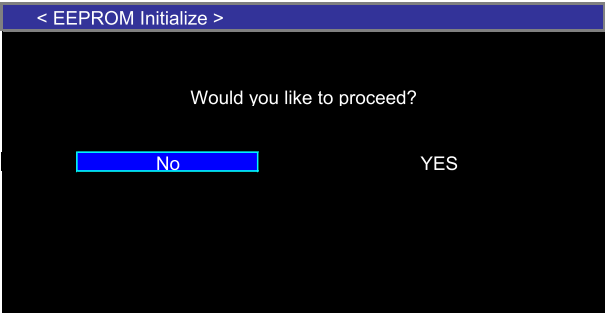
4. EEPROM Initialize

Method for Mode IN

Choose “4. EEPROM Initialize” among the Monitor Test Menu screen.

Display specification

Confirmation screen



Operational description	Remote controller key
Return to test mode menu	RETURN
Selection cursor left movement	REV 
Selection cursor right movement	FF 
Menu enter	Band

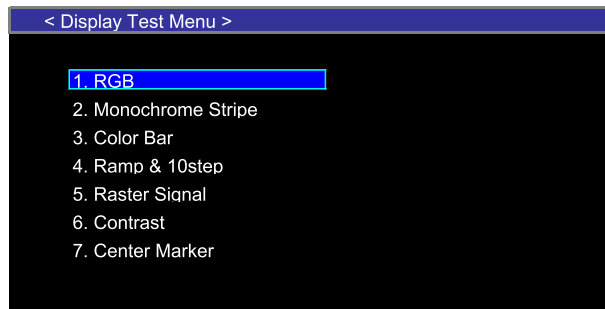
5. Display Test

Method for Mode IN

Choose "5. Display Test" among the Monitor Test Menu screen.

Display specification

Top menu



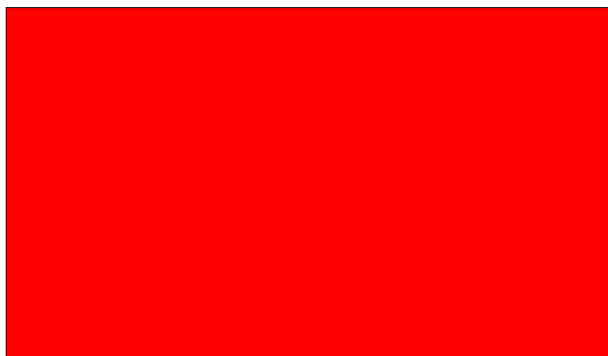
Operational description	Remote controller key
Return to test mode menu	RETURN
Selection cursor up movement	Up 
Selection cursor down movement	Down 
Menu enter	Band

1. RGB

RGB is plotted in the following pattern:

R:100% -> R:50% -> G:100% -> G:50% -> B:100% -> B:50% -> Magenta:100% -> Magenta:50% -> Cyan:100% -> Cyan:50% -> Yellow:100% -> Yellow:50% -> Black -> Gray -> White -> Green & Magenta dot signal
(The display of the screen will be changed in 1 second.)

R: 100%

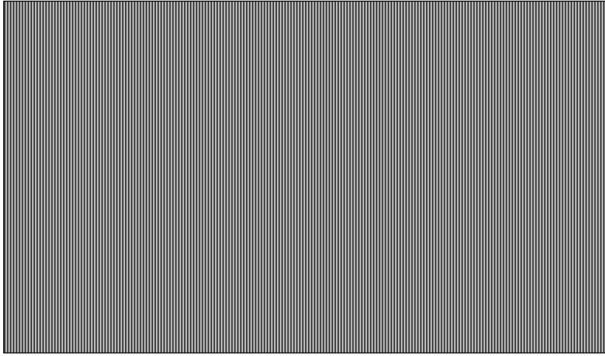


Operational description	Remote controller key
Return to test mode menu	RETURN
Stop / restart of auto display	Band

2. Monochrome Stripe

Display of monochrome stripe signals.

Monochrome stripe (Vertical)

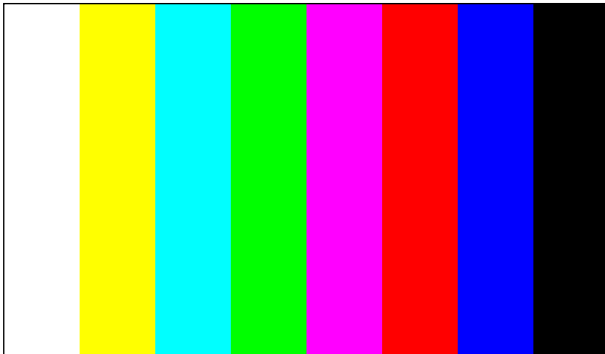


Operational description	Remote controller key
Return to test mode menu	RETURN
Pattern change	Band

3. Color Bar

Display of color bar signals.

Color bar (Vertical)

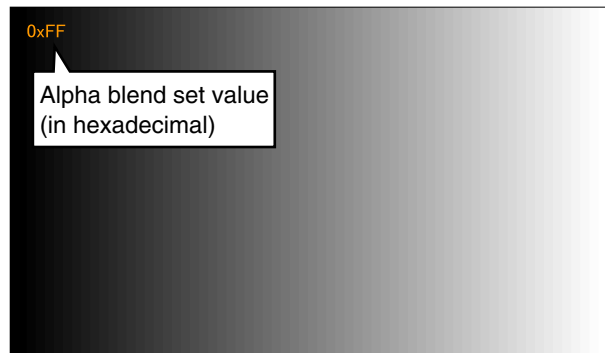


Operational description	Remote controller key
Return to test mode menu	RETURN
Pattern change	Band

4. Ramp & 10step

Display of step signals and signals for alpha blend check.

Right-white 64step

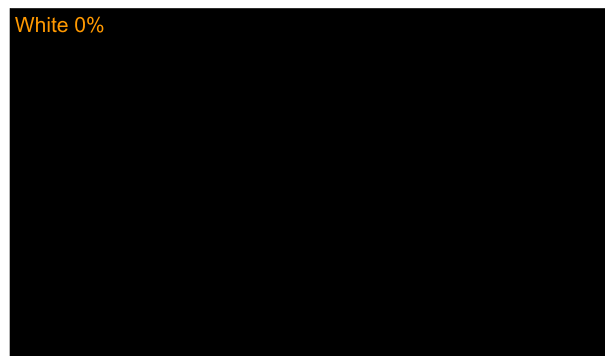


Operational description	Remote controller key
Return to test mode menu	RETURN
Alpha blend Up (+0x10)	Up
Alpha blend Down (-0x10)	Down
Alpha blend Up (+0x01)	FF
Alpha blend Down (-0x01)	REV
Pattern change	Band

5. Raster Signal

Display of signals for step confirmation.

White 0%



Operational description	Remote controller key
Return to test mode menu	RETURN
Pattern change	Band

6. Contrast

A

Display of Black / White signals.

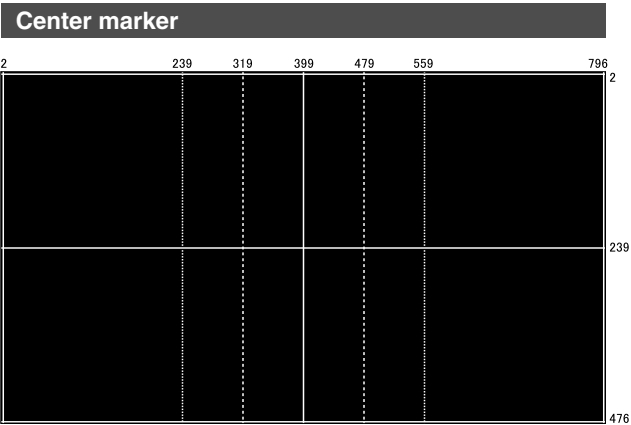


Operational description	Remote controller key
Return to test mode menu	RETURN
Pattern change	Band

7. Center Marker

C

Display of signal for screen central location setting.



Operational description	Remote controller key
Return to test mode menu	RETURN

E

F

6. Rear Video Output Test

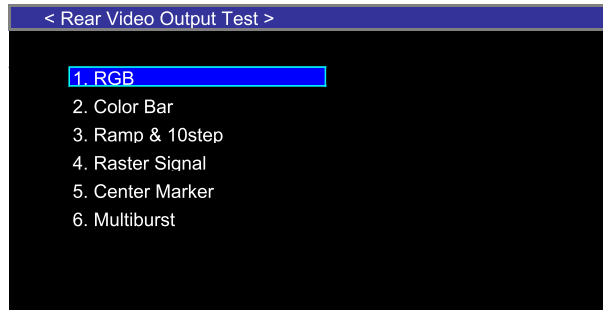
Method for Mode IN

Choose "6. Rear Video Output Test" among the Monitor Test Menu screen.

Display specification

On this Rear Video Output Test mode, test signals appear only on the rear video output terminal.

Top menu



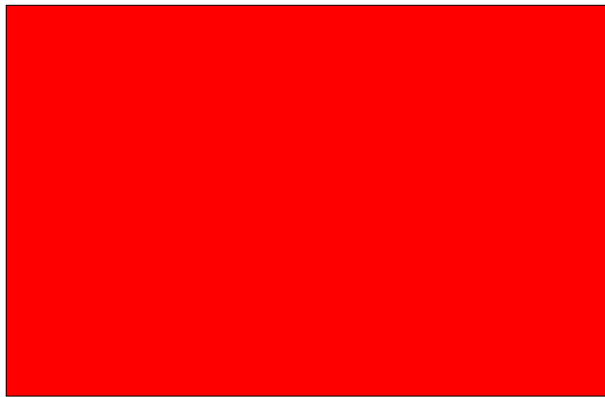
Operational description	Remote controller key
Return to test mode menu	RETURN
Selection cursor up movement	Up 
Selection cursor down movement	Down 
Menu enter	Band

1. RGB

RGB is plotted in the following pattern:

R:100% -> R:50% -> G:100% -> G:50% -> B:100% -> B:50% -> Black -> Gray -> White signal
(The display of the screen will be changed in 1 second.)

R: 100%

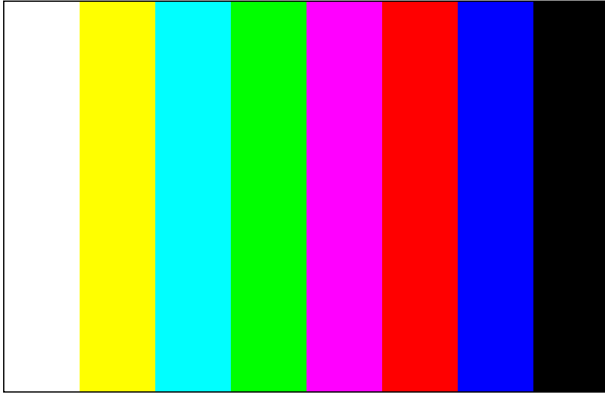


Operational description	Remote controller key
Return to test mode menu	RETURN
Stop / restart of auto display	Band

2. Color bar

Display of color bar signals.

Color bar (Vertical)

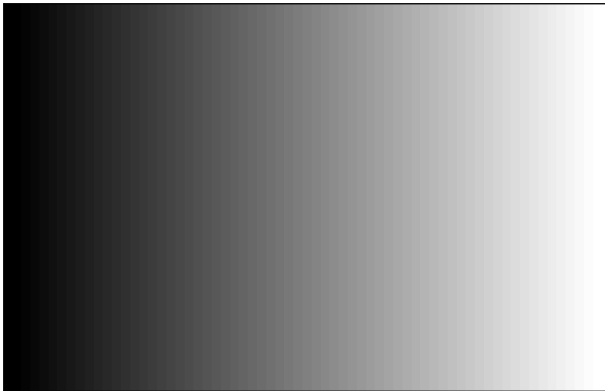


Operational description	Remote controller key
Return to test mode menu	RETURN

3. Ramp & 10step

Display of step signals and signals for alpha blend check.

Right-white 64step

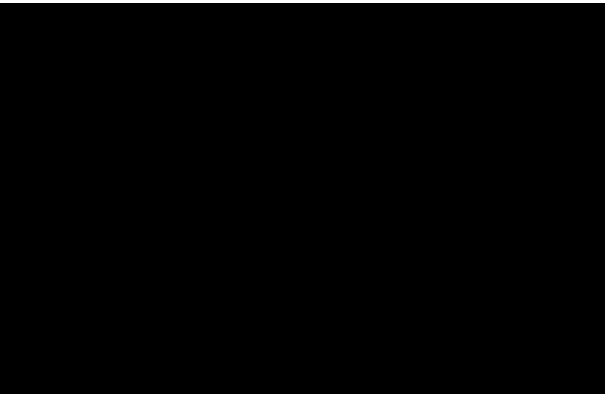


Operational description	Remote controller key
Return to test mode menu	RETURN
Alpha blend Up (+0x10)	Up 
Alpha blend Down (-0x10)	Down 
Alpha blend Up (+0x01)	FF 
Alpha blend Down (-0x01)	REV 
Pattern change	Band

4. Raster Signal

Display of signals for step confirmation.

White 0%

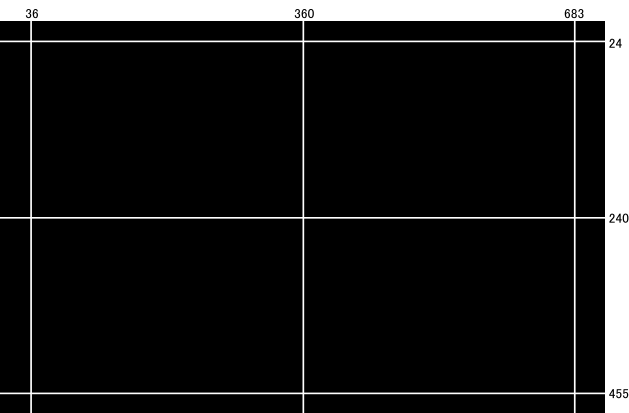


Operational description	Remote controller key
Return to test mode menu	RETURN
Pattern change	Band

5. Center Marker

Display of signal for screen central location setting.

Center marker

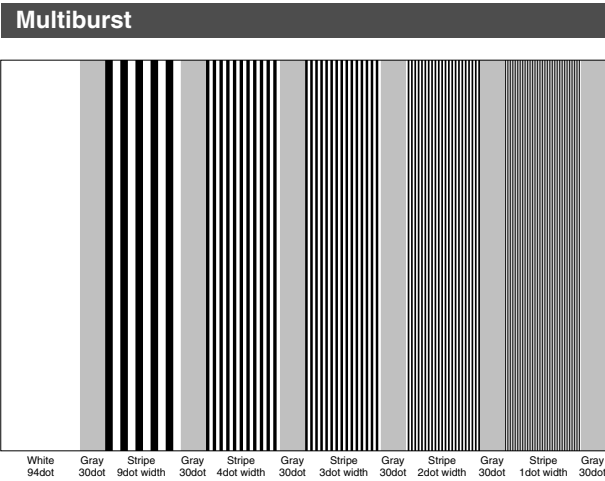


Operational description	Remote controller key
Return to test mode menu	RETURN

6. Multiburst

A

Display of multiburst signal.



B

Operational description	Remote controller key
Return to test mode menu	RETURN

C

D

E

F

6.2 DVD TEST MODE

The service test mode is used to check functions in fault diagnosis by a serviceman in case of any defect found in the DVD mecha.

This mode is enabled only when the test mode is activated. At this time, no normal operation is executed.

1. Outline

The service test mode is used to check functions in fault diagnosis by a serviceman in case of any defect found in the DVD mecha. No general user goes into this mode.

The mode is implemented mainly to check the FE part. It is originally the test mode at the FE part implemented in the PC communication, which is modified to allow implementation in the HOST communication.

The command for the test mode received in the HOST communication is interpreted by the application part, converted to the PC communication command and transferred to the OS.

The OS transfers this command to the PC task as if it received the command in the PC communication.

The execution result is noticed to the application part by an e-mail instead of the PC communication.

The application part then transmits the result in the HOST communication to display OSD.

2. Conditions for operation

(1) This service test mode is enabled only when the test mode is activated. At this time, no normal operation is executed.

3. To enter the test mode.

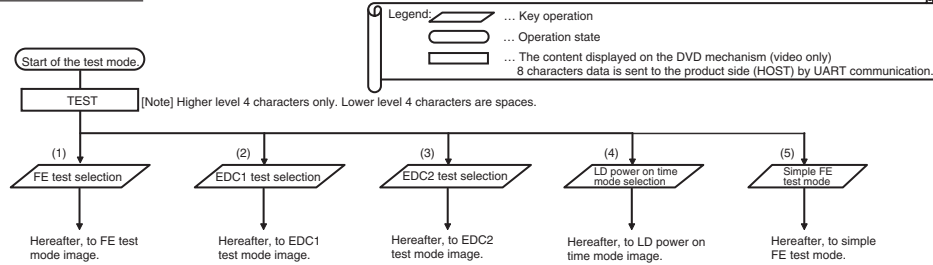
(1) [MUTE] key + [VOL-] key -> Turn on BUP and ACC.

(2) DVD SOURCE -> ON

(3) Execute the test mode using each key.

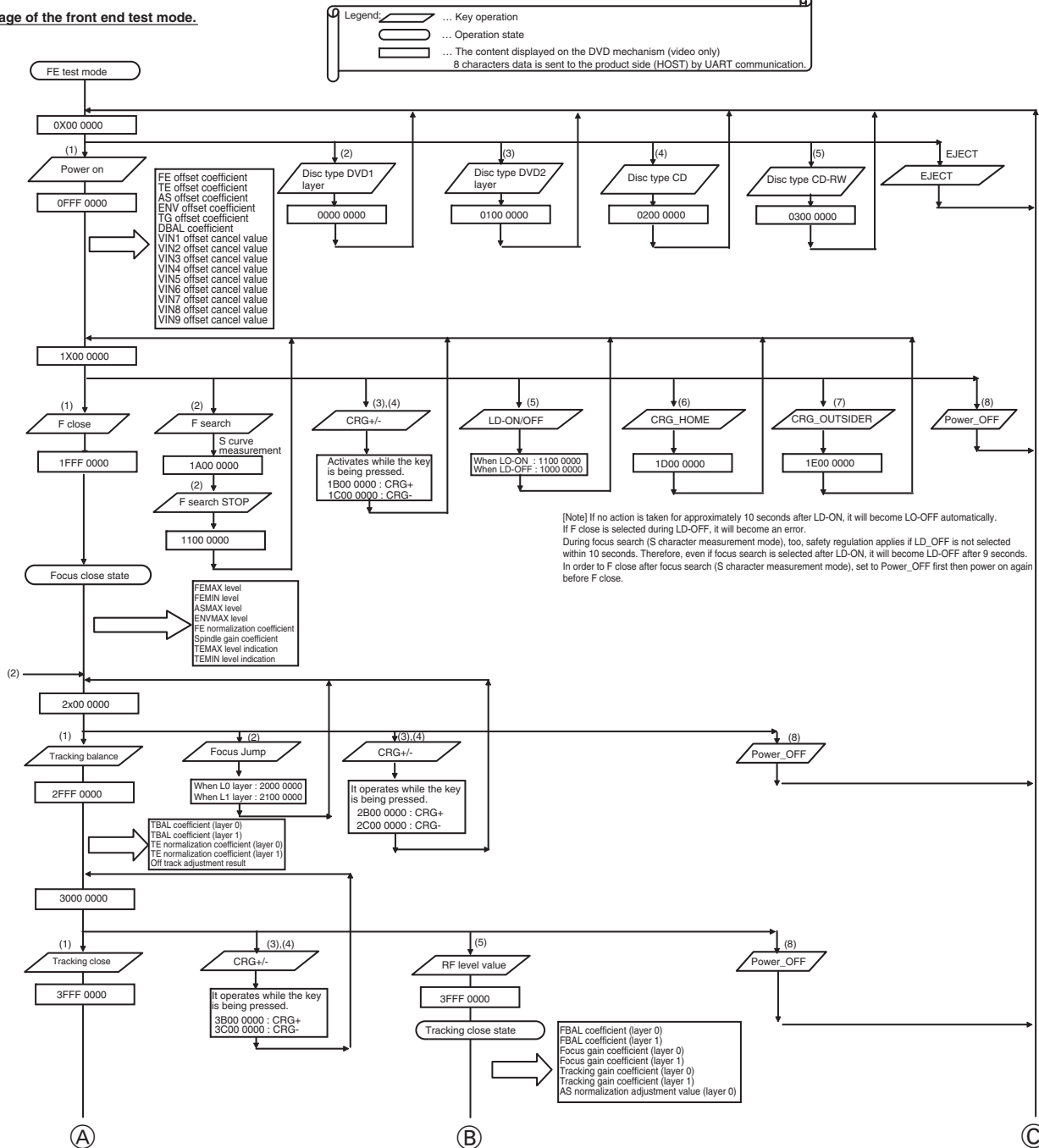
Display on function flow	Operation Key
(1)	VOL+
(2)	MUTE
(3)	SRC
(4)	REAR SRC
(5)	AUDIO
(6)	MENU
(7)	SUB TITLE
(8)	TOP MENU
EJECT	EJECT

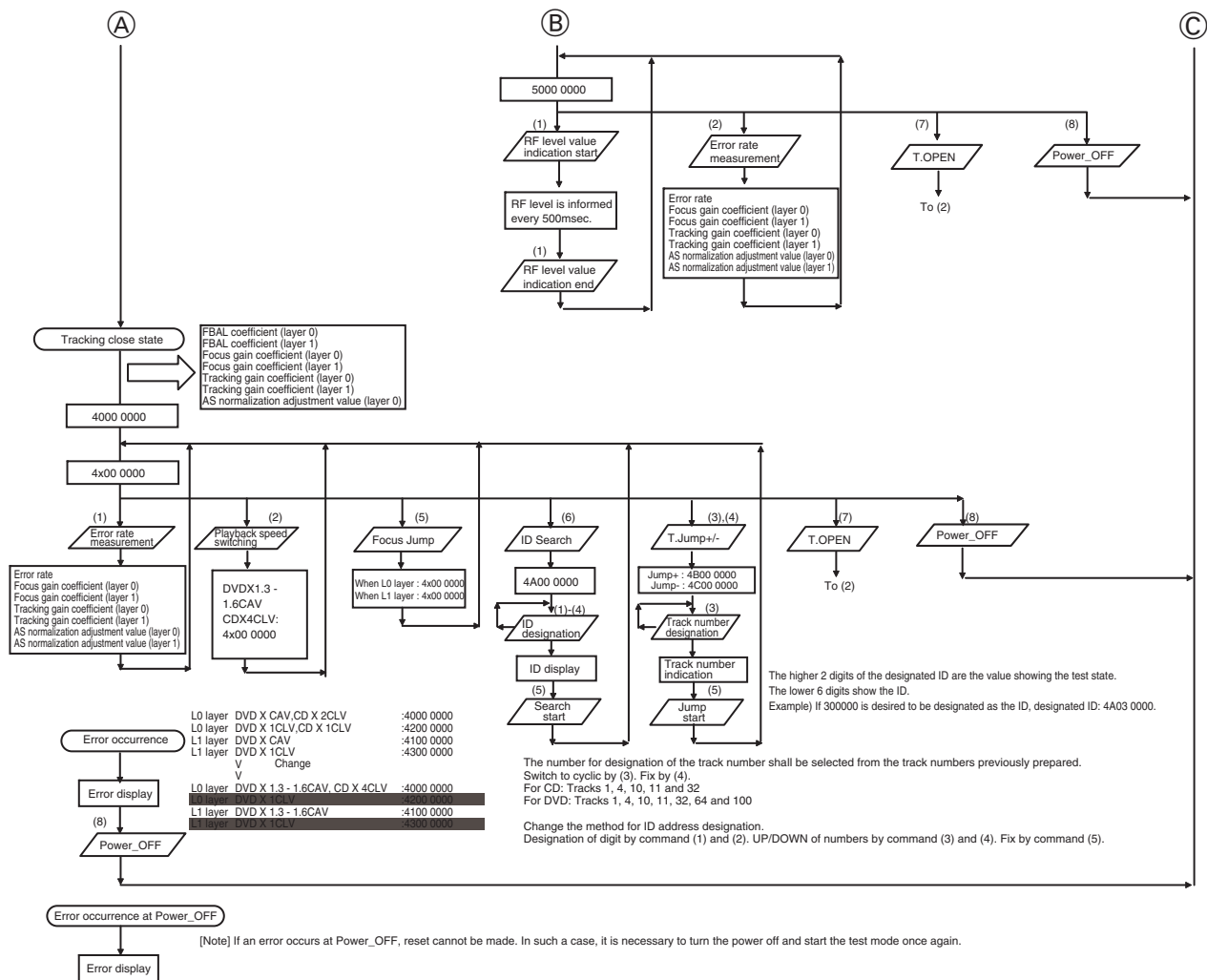
Image of the test mode.



[Note] In order to move on to another test after selecting a test (FE/EDC1/EDC2), it is necessary to restart the DVD mechanism in the test mode.

Image of the front end test mode.





EDC. Image of the test mode

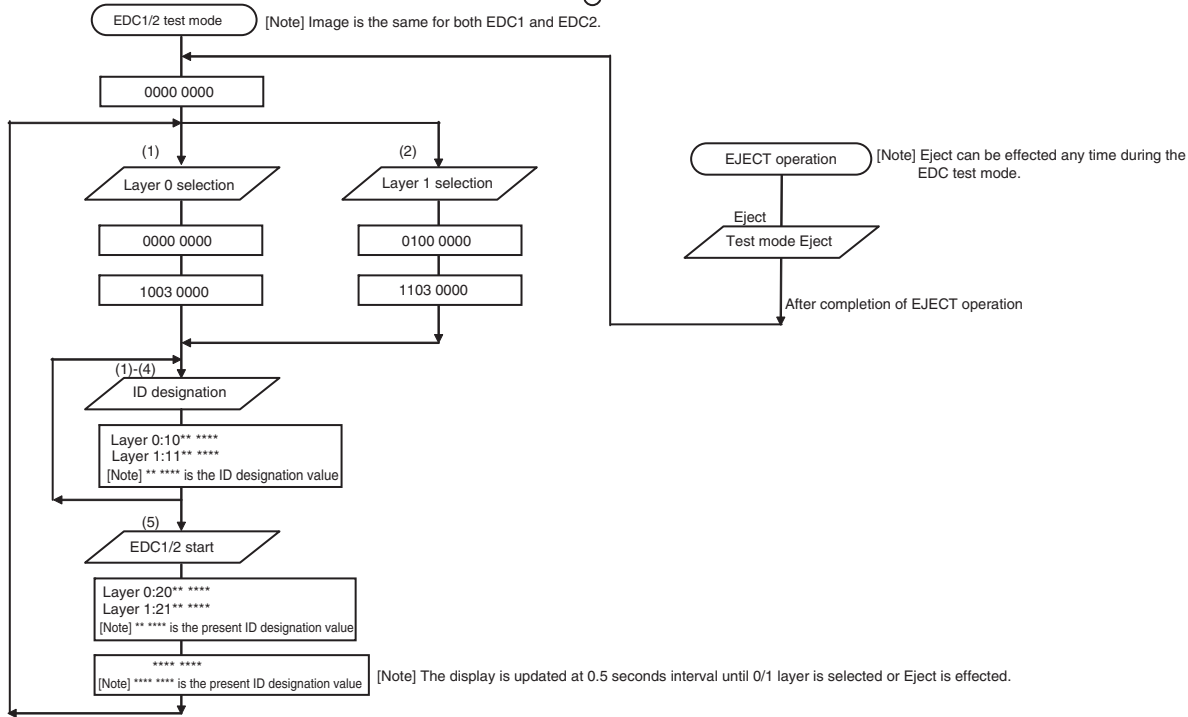
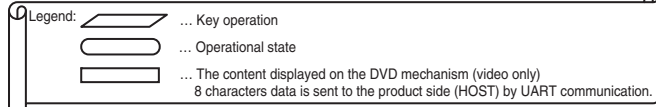
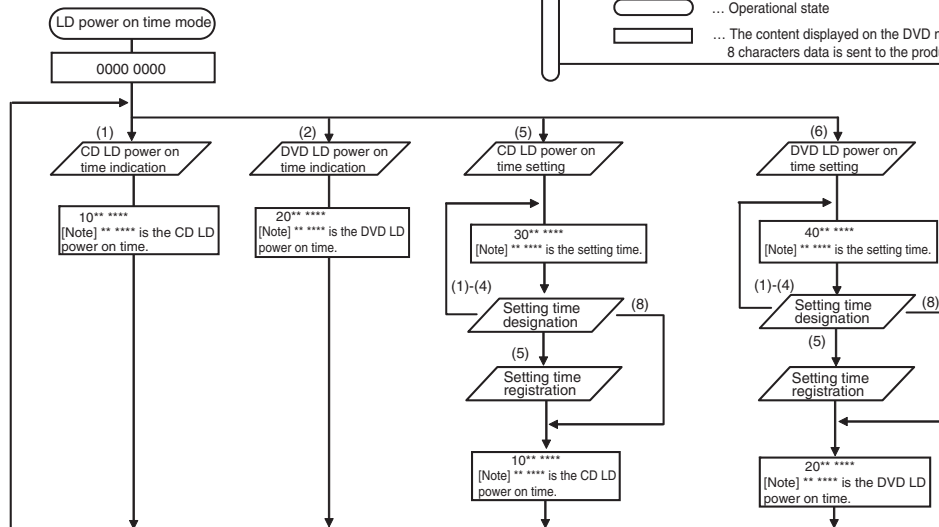
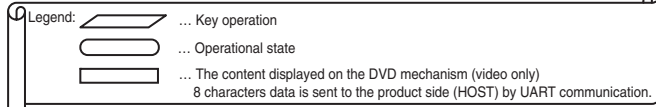


Image of the LD power on time mode.



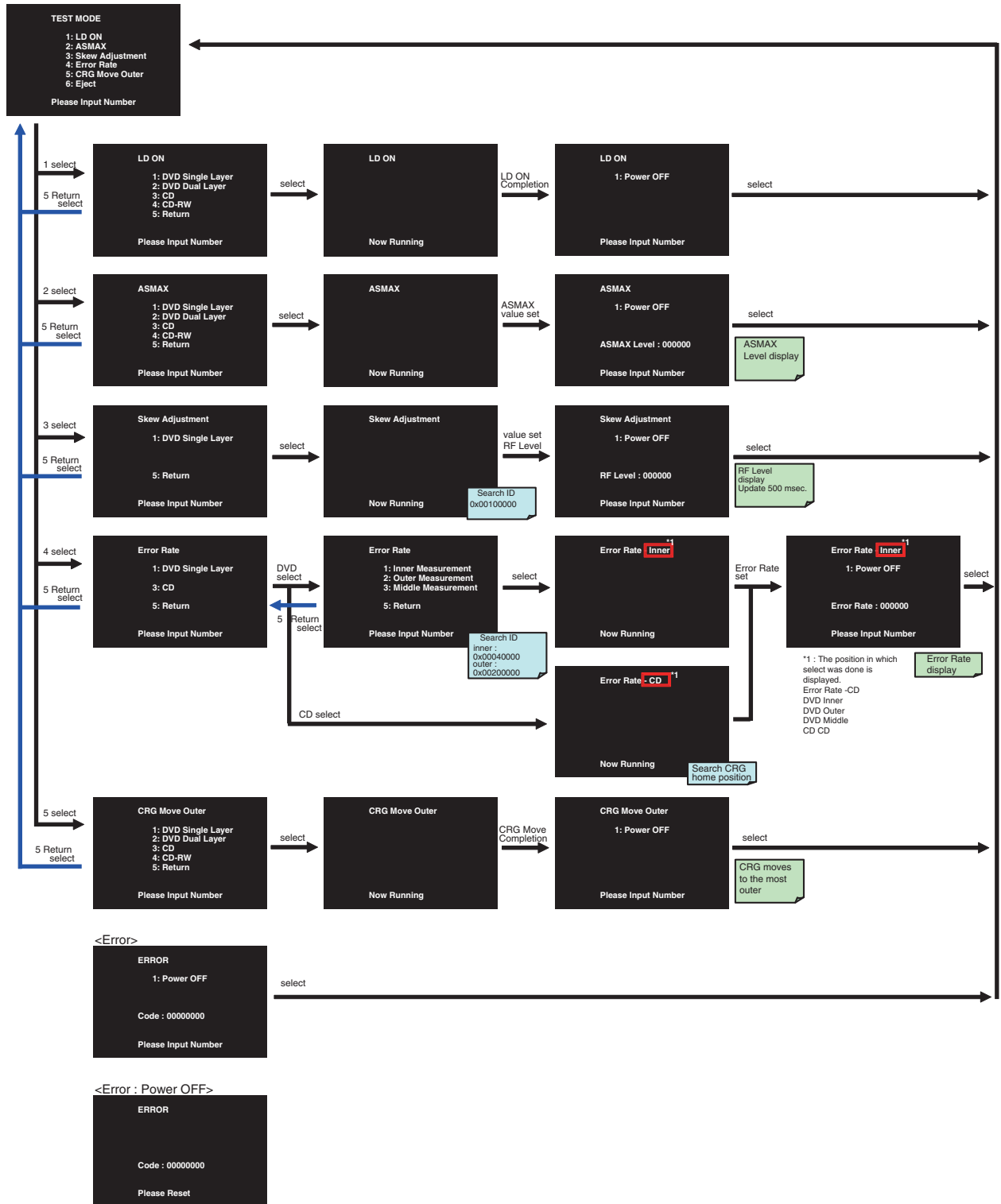
[Method of setting time designation]
Designate the digit by command (1) and (2). UP/DOWN of numbers by command (3) and (4).
Fix by command (5). Cancel by command (8).

[Note] If the power on time is 999999 hours or more, it is always reported as 999999 hours.
[Note] If the power on time is "E*****", the value may not be correct due to the life of the flash memory.

Simple test mode

The selection of the figure of each screen can be selected by "Key command for the test".

<Flow chart>



7. DISASSEMBLY

While the photograph shown is slightly different from this model in shape, the disassembly procedure is the same.

●Method for opening the flap manually (Fig.1)

Insert a tip of screwdriver whose diameter is approximately 2mm into the slit at the bottom surface of the product and slide the flame part to the direction indicated by an arrow.

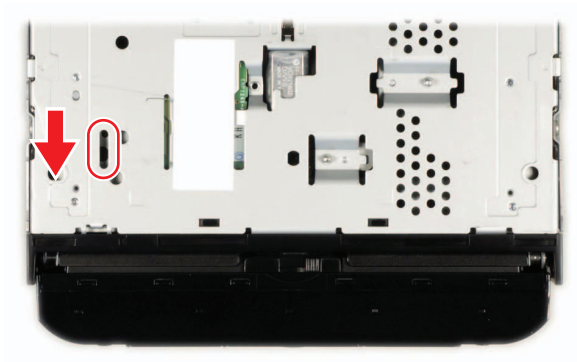
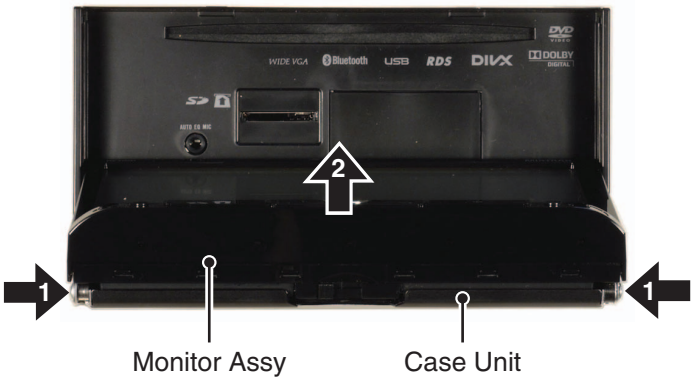


Fig.1

●Removing the Monitor Assy and the Case Unit (Fig.2)

- 1 Remove the two screws.
- 2 Pull out the Monitor Assy and the Case Unit in the direction indicated by an arrow.



Reverse the top and bottom of the product.

- 3 Push the two tabs and then remove the Cover.
- 4 Disconnect the connector and then remove the Monitor Assy and the Case Unit.

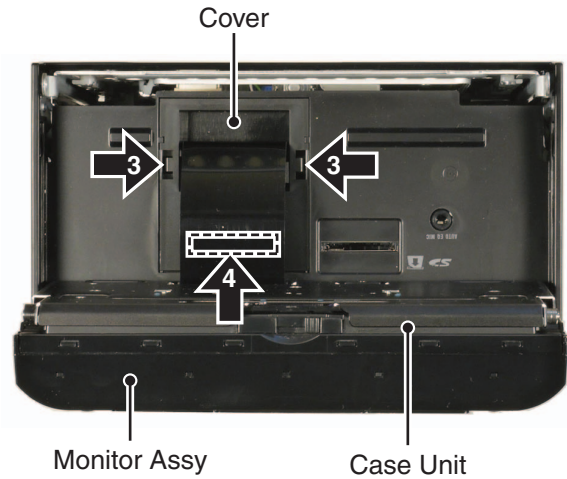


Fig.2

●Removing the Monitor Unit (Service) (Fig.3)

- ➡ **1** Slide the Button in the direction indicated by arrow and then separated the Monitor Assy and the Case Unit.
- ➡ **2** Remove the four screws.
- ➡ **3** Remove the screw.
- ➡ **4** Disconnect the connector and then remove the Cover.
- ➡ **5** Disconnect the four connectors.
- ➡ **6** Remove the two screws and then remove the two Plate Springs.
- ➡ **7** Remove the two screws and then remove the Monitor Unit (Service).

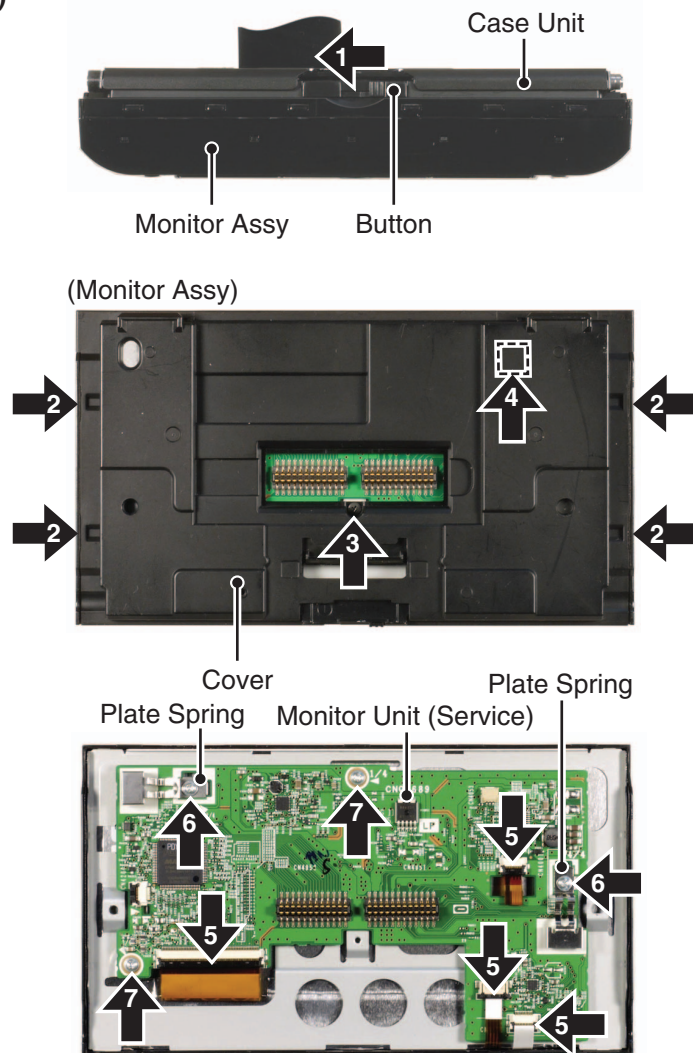


Fig.3

●Removing the Key Unit (Service) (Fig.4)

Remove the Grille, LCD and the Touch Panel.

- ➡ **1** Release the five latches and then remove the Spacer.

Remove the Key Unit (Service).

After the Key Unit (Service) is replaced, check the following items.

- Check whether all LED's light up
- Check the operation of all switches
- Check the operation of light receiving part of the remote controller

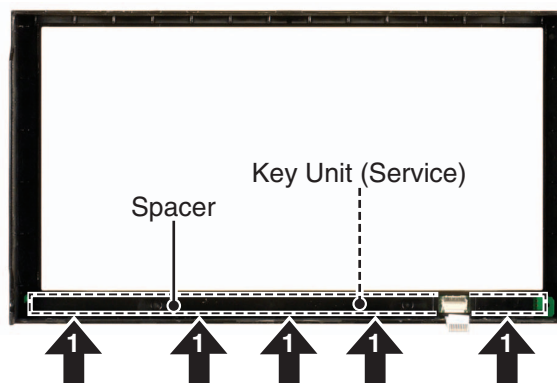


Fig.4

●Removing the Panel (Fig.5)

- 1 Remove the four screws.
- 2 Release the six latches and then remove the Panel.

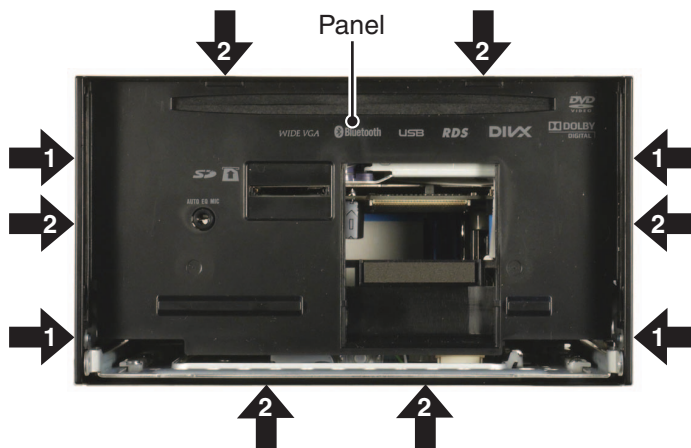


Fig.5

●Removing the DVD Mechanism Module (Fig.6)

- 1 Remove the four screws.
- 2 Disconnect the connector and then remove the DVD Mechanism Module.

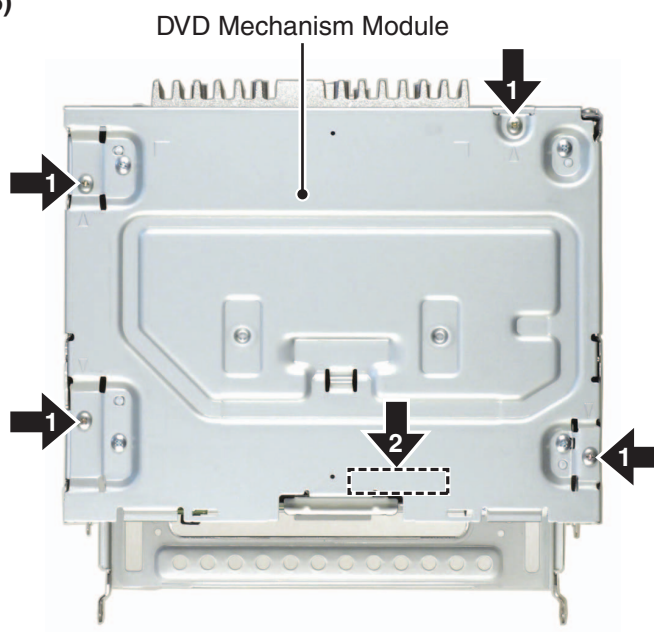


Fig.6

●Removing the Heat Sink and the Holder (Fig.7)

- 1 Remove the three screws and then remove the Heat Sink.
- 2 Remove the two screws and then remove the Holder.
- 3 Remove the two screws.

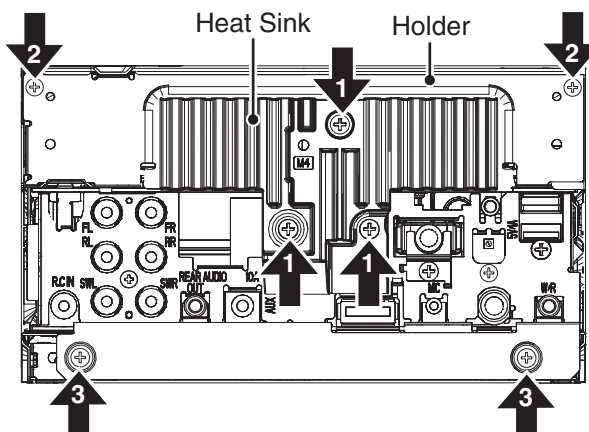


Fig.7

●Removing the Mother Unit(Service) (Fig.8)

- ➡ 1 Disconnect the two connectors.
- ➡ 2 Remove the three screws.
- ➡ 3 Loosen the four screws and then remove the Mother Unit(Service).

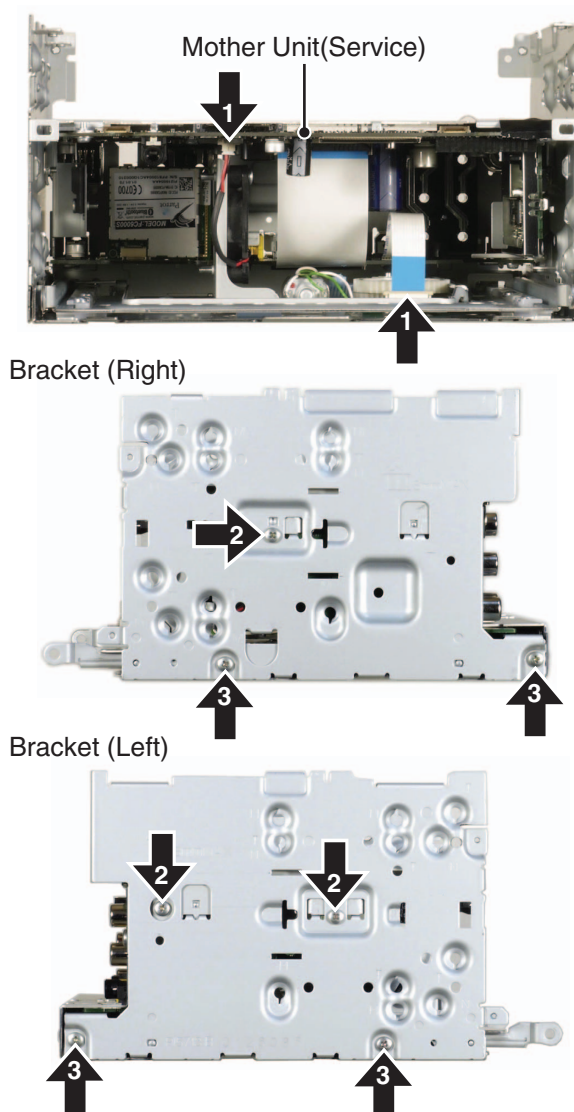


Fig.8

●Removing the Tuner Amp PCB and the IF PCB (Fig.9)

- ➡ 1 Disconnect the connector.
- ➡ 2 Remove the three screws and then remove the IF PCB.
- ➡ 3 Remove the four screws and then remove the Tuner Amp PCB.

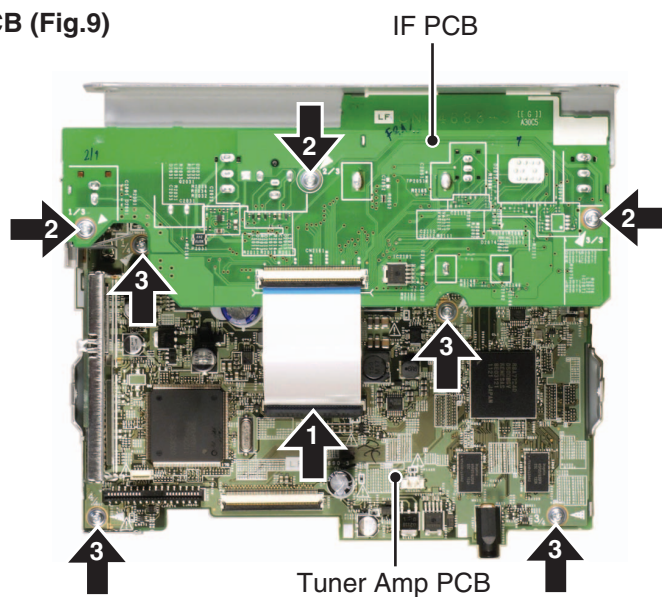
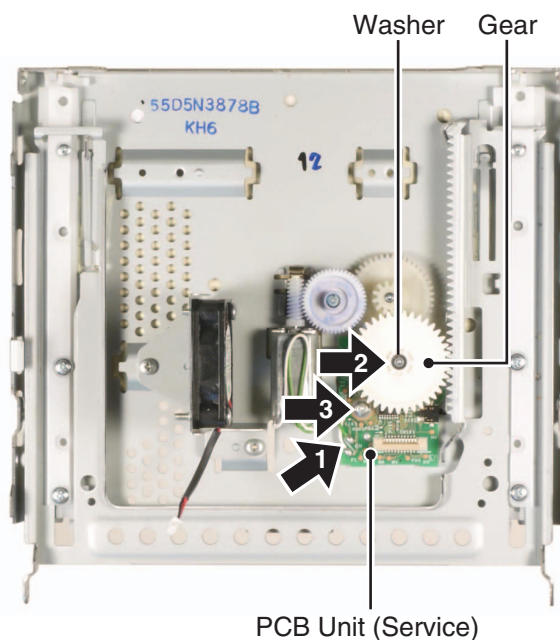


Fig.9

● Removing the PCB Unit (Service) (Fig.10)

- 1** Remove the two solders and then remove the two cords.
- 2** Remove the Washer and then remove the Gear.
- 3** Remove the screw and then remove the PCB Unit (Service).



Precautions on attachment of Motor Unit.

While withdrawing a Motor Unit to the direction indicated by an arrow and tighten the screw to fix it. If you tighten the screw after withdrawing it to the opposite direction of the arrow, the pitch between Worm Gear and Worm Wheel opens up and the gear jumps due to drop of package and abnormal sound may be generated.

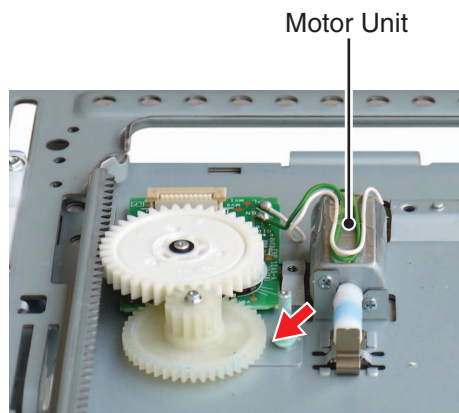
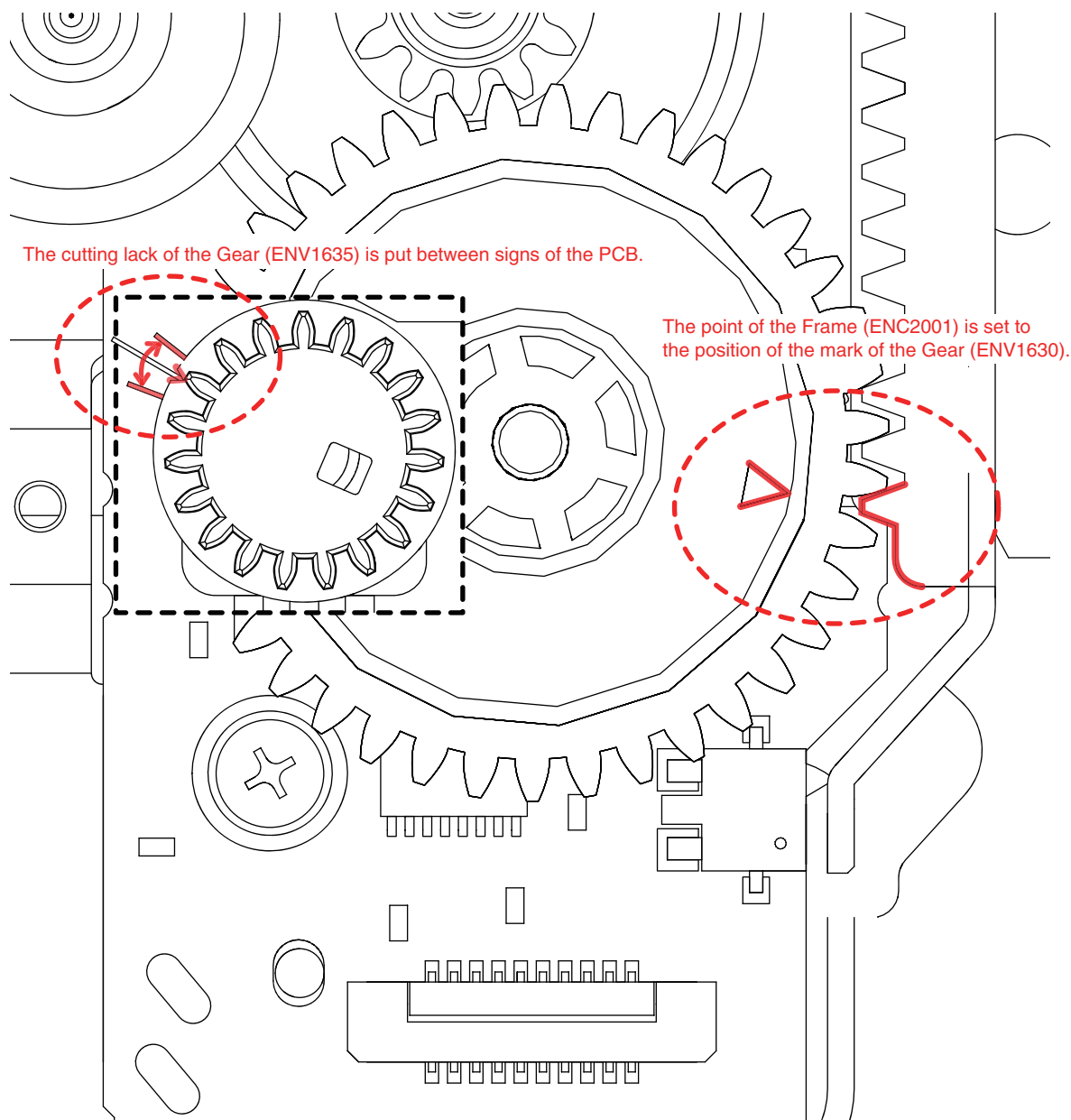


Fig.10

<<Drive Unit Gear set position>>

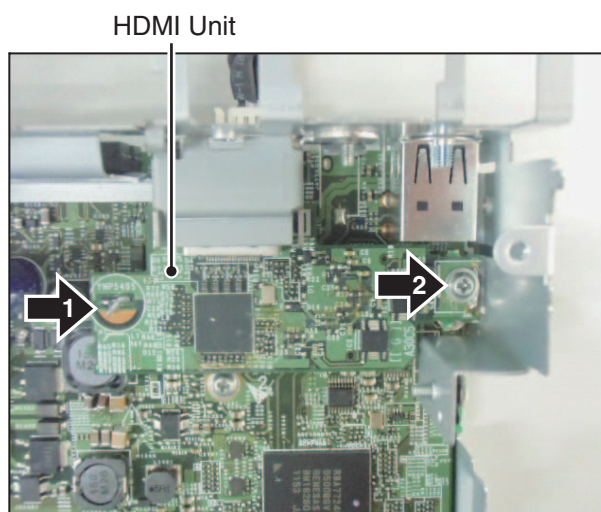


A ● Removing the HDMI Unit (Fig.11)

1 Remove the solder and then straighten the tab.

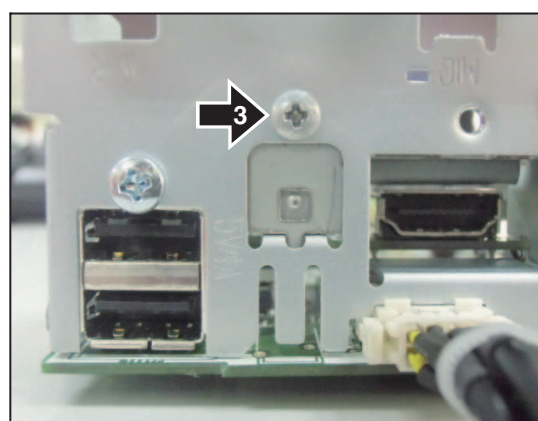
2 Remove the screw.

B



3 Remove the screw.

C



D

Pull out the HDML Unit to the direction indicated by an arrow.

E

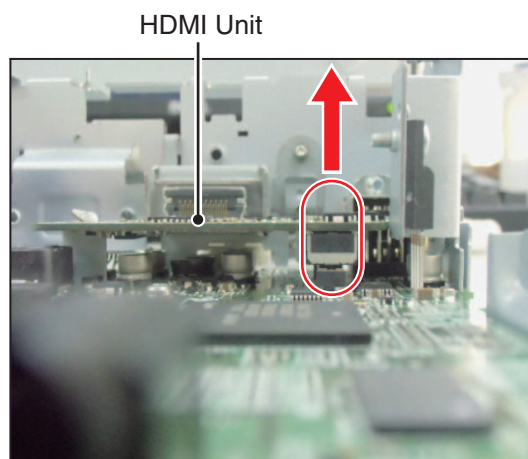


Fig.11

F

8. EACH SETTING AND ADJUSTMENT

8.1 DVD ADJUSTMENT



This product uses 5 V and 3.3 V as standard voltages.

The electrical potential that is the reference for signals, is not GND, but VREF (approximately 2.2 V) and VHALF (approximately 1.65 V) .

During product adjustments, if the reference voltage is mistakenly taken as GND, and a grounding contact is made, not only would it be impossible to measure the accurate electrical potential, but also the servo motor would malfunction, resulting in the application of a strong impact on the pick up.

The following precautionary measures should be strictly adhered to, in order to avoid such problems.

The reference voltage and GND should not be confused when using the minus probe of a measurement device.

When an oscilloscope is being used special care should be taken to make sure that the reference voltage is not connected to the probe of ch1 (on the minus side), while the probe of ch2 (on the minus side), is connected to GND. Further, since the body frame of most measurement devices have the same electrical potential as the minus side of the probe, the body frame of the measurement device should be set to floating ground.

If the reference voltage is connected to GND by mistake, turn the regulator OFF immediately, or turn the power OFF.

- Remove the filters and wires used for measurements only after the regulator has been turned OFF.
- After the power supply is turned on, regulator ON the following adjustment and measurement are promptly done.
- Whenever the product is in the test mode, the software will not take any protective action. For this reason, special care should be taken to make sure that no mechanical or electrical shock could be applied to the product when taking measurements in the test mode.
- Whenever the EJECT key is pressed to eject the disk, no other keys, other than the EJECT key, should be pressed until the disk eject action has been completed.
- Press the EJECT key only after the disk has stopped completely.
- If the product hangs up turn the power OFF immediately.
- Don't touch the volume for laser power adjustment other than the time of POWER adjustment.
(Laser diode may be damaged.)

● Power Adjustment

■ Power Adjustment

To turn VR of the circuit for Power adjustment and adjust the optical output level of PU laser diode to make the level of signal (RF signal) read from the media appropriate level during the reproduction of media, CD and DVD.

It has been decided that Power adjustment circuit (circuit from IMON to CDMP, DVDMP) which adjusts the optical output level of PU laser diode should be installed on DVD Core Unit in the DVD mecha module.

Therefore, in the replacement of CRG mecha (with PU unit) and DVD Core Unit, Power adjustment should be implemented.

The Power adjustment method of mecha module is shown below.

■ Items to be Prepared

Measuring instrument: Oscilloscope (digital or analog)

Frequency band of oscilloscope in DVD whose frequency is higher than CD Adjustable 10 MHz and higher (enough to check the level)

(In LS2, DVD (x 1.5CLV) MAX RF 6.55 MHz / DVD (x 1.5CLV) MIN RF 1.40 MHz)

DISC: DVD TEST DISC (TDV-582 or TDV-520) Almedio

CD TEST DISC (TCD-782 or TCD-792) Almedio

Adjustment screwdriver : crosshead, No.0, nonmetal (ceramic screwdriver for adjustment)

■ Line Locating

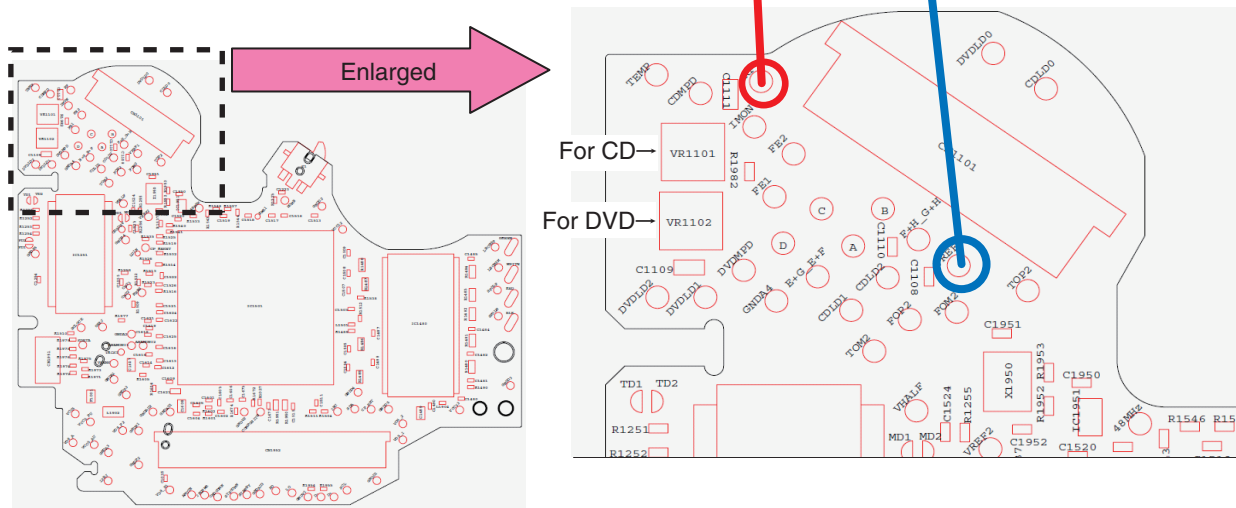
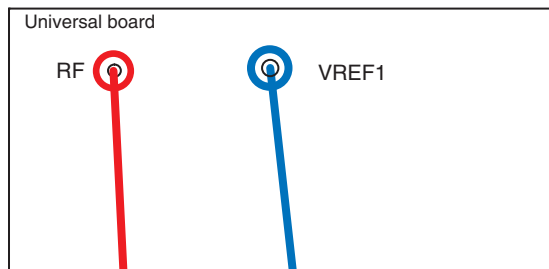
The following line locating is required.

1	RF	Power adjustment
2	VREF1	Power adjustment

■ Connection Diagram

○ : Checking terminal for oscilloscope

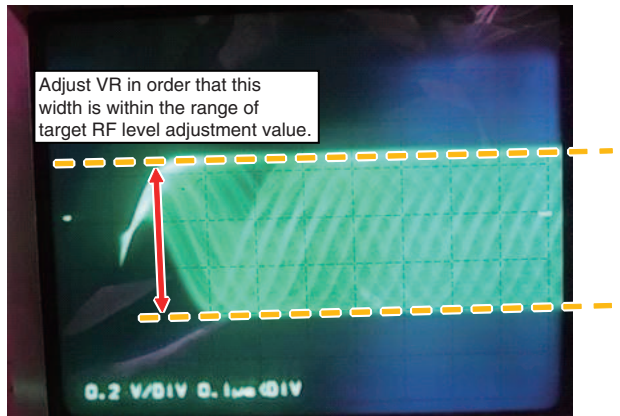
The figure in parentheses of resistor / capacitor is constant.



Method of Power Adjustment

1. Monitor RF by using the analog oscilloscope. (line locating of RF and VREF1)
2. Turn VR1101 and VR1102 to set the PP value of RF at the value shown in the right lower table.

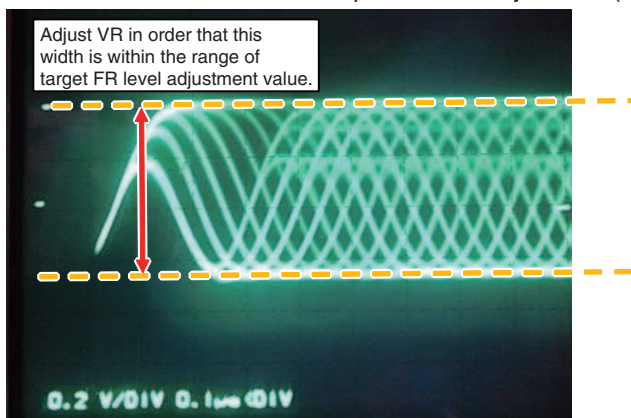
▼ RF waveform after F-ON / before T-ON (waveform measured by analog oscilloscope)



Power adjustment standard
RF level adjustment value
(F-ON STEP 10, 24)

DVD	200 mV to 1200 mV
CD	200 mV to 1200 mV

▼ RF waveform after the completion of all adjustment (waveform measured by analog oscilloscope)



Power adjustment standard
RF level adjustment value
(The setup is completed. STEP 12, 26)

DVD	848 mV to 892 mV
CD	658 mV to 702 mV

■ Procedure of Power Adjustment

■ Flow

1. DVD Power adjustment in the state where F is ON
2. DVD Power adjustment in the state where the setup is completed
3. CD Power adjustment in the state where F is ON
4. CD Power adjustment in the state where the setup is completed

■ Procedure of Adjustment

STEP No.

1. Set the mecha to clockwise.

2. Turn on power.

3. Test Mode In

[Refer to FE test mode function flow.](#)

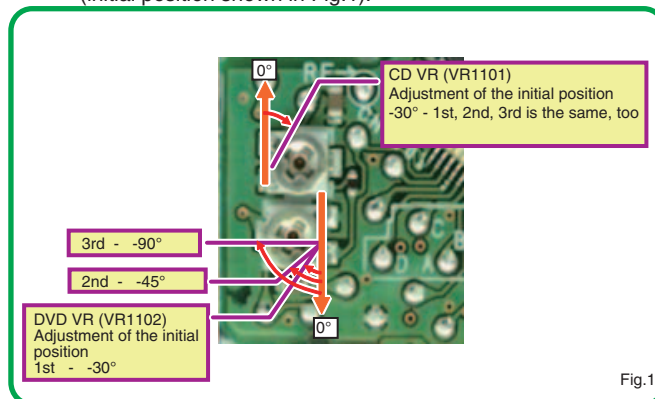
4. Insert DVD TDV-582 (or TDV-520).

5. Set the mecha to counterclockwise.

6. Adjustment of the initial position of VR for Power adjustment

Adjust the angle at the D cut position to the initial position (initial position shown in Fig.1).

	1st	2nd	3rd
CD (VR1101)		-30°	
DVD (VR1102)	-30°	-45°	-90°



7. Set DISC TYPE to DVD single layer.

8. Power on.

[Refer to FE test mode function flow.](#)

9. LD-ON

[Refer to FE test mode function flow.](#)

10. Execute until Focus close state is reached.

▼ If the waveform is similar to RF waveform after F-ON and before T-ON (waveform measured by analog oscilloscope), Focus Close is reached. Go to STEP 9.

If the RF waveform does not appear, Focus Close is not reached.

Return to STEP 7 and change the angle of initial position of DVD VR (VR 1102). If Focus Close is not reached after the 3rd VR adjustment, replace the whole CRG mecha (including PU unit) and start again from STEP 1.

DVD	200 mV to 1200 mV
-----	-------------------

11. Conduct Power adjustment. (Conduct the adjustment in the state of Focus Close.)

DVD	848 mV to 892 mV
-----	------------------

12. Execute until Tracking Close is reached.

13. Conduct Power adjustment. (Conduct the adjustment in the state of Tracking Close.)

DVD	2.0E - 4 and under
-----	--------------------

14. Check the ERR rate after Power adjustment.

DVD	820 mV to 917 mV
DVD	2.0E - 4 and under

15. Power off.

16. Return the state of mecha to clockwise.

17. Set up again (state of mecha to clockwise / setting of DVD single layer) and conduct the final check of RF level and ERR rate. (Check in the state of Tracking Close)

18. Eject.

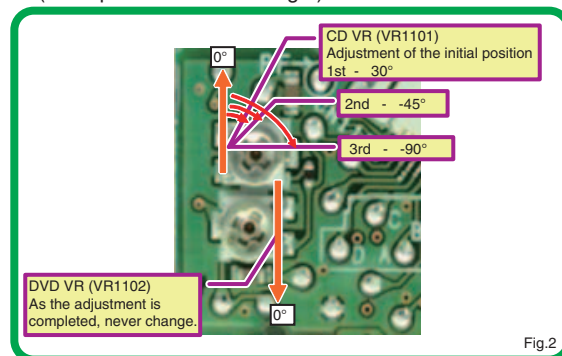
19. Take out DVD TDV-582 (or TDV-520).
Insert CD TCD-782 (or TCD-792).

20. Set the mecha counterclockwise.

21. Adjustment of the initial position of VR for Power adjustment

	1st	2nd	3rd
CD (VR1101)	-30°	-45°	-90°
DVD (VR1102)	As the adjustment is completed, never change.		

Adjust the angle at the D cut position to the initial position (initial position shown in Fig.2).



22. Set DISC TYPE to CD.

[Refer to FE test mode function flow.](#)

23. Power on.

[Refer to FE test mode function flow.](#)

24. Execute until Focus Close 1 is reached.

[Refer to FE test mode function flow.](#)

▼ If the waveform is similar to RF waveform after F-ON and before T-ON (waveform measured by analog oscilloscope), Focus Close is reached. Go to STEP 20.

If the RF waveform does not appear, Focus Close is not reached. Return to STEP 21 and change the angle of initial position of CD VR (VR1101). If Focus Close is not reached after the 3rd VR adjustment, replace the whole CRG mecha (including PU unit) and start again from STEP 1.

25. Conduct Power adjustment. (Conduct the adjustment in the state of Focus Close.)

CD	200 mV to 1200 mV
----	-------------------

26. Execute until Tracking Close is reached.

[Refer to FE test mode function flow.](#)

27. Conduct Power adjustment. (Conduct the adjustment in the state of Focus Close.)

CD	658 mV to 702 mV
----	------------------

28. Check ERR rate.

CD	1.0E – 2 and under
----	--------------------

[Refer to FE test mode function flow.](#)

29. Power off.

[Refer to FE test mode function flow.](#)

30. Return the state of mecha to clockwise.

31. Set up again (state of mecha to clockwise / setting of CD layer), and conduct the final check of RF level and ERR rate.
(Check in the state of Tracking Close)

CD	528 mV to 832 mV
CD	1.0E – 2 and under

[Refer to FE test mode function flow.](#)

32. Eject.

[Refer to FE test mode function flow.](#)

33. Take out CD TCD-782 (or TCD-792).

34. Power off.

8.2 PCL OUTPUT CONFIRMATION

A



● PCL Output

In the normal operation mode (the ACC switched ON, the standby mode cancelled), shift the TESTIN IC601 (149 pin) (TP : TES) terminal to “H”.

The clock signal is output from the CLKOUT terminal IC601 (Pin 106)(TP : CLKO).

The frequency of the clock signal is 31.45728 MHz.

If the clock signal out of the range, the X'tal (X601) should be replaced with new one.

B

■

C

■

D

■

E

■

F

■

5

■

6

■

7

■

8

■

A

■

B

■

C

■

D

■

E

■

F

■

5

■

6

■

7

■

8

■

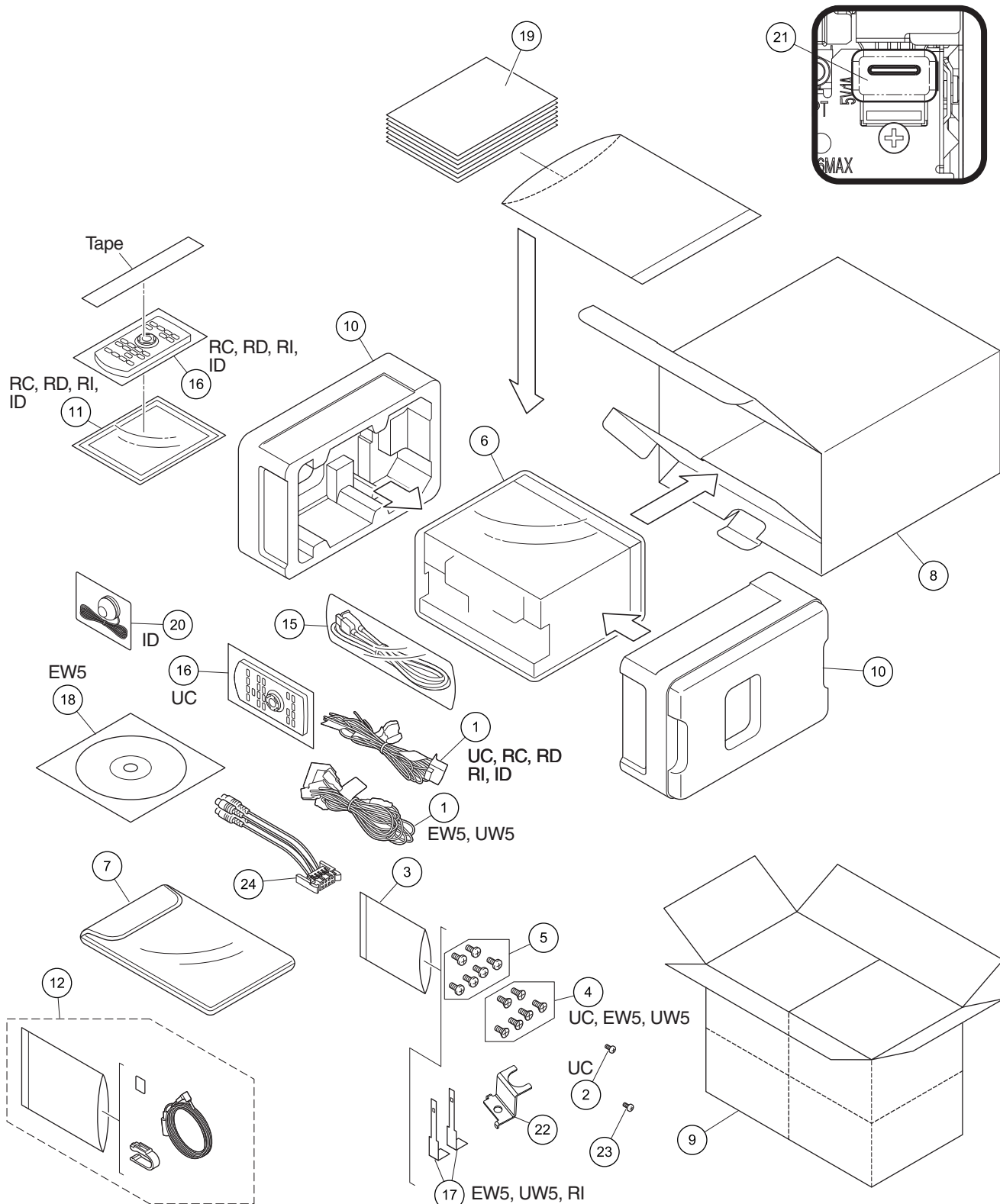
9. EXPLODED VIEWS AND PARTS LIST

NOTES :

- Parts marked by " * " are generally unavailable because they are not in our Master Spare Parts List.
- The  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.	Mark No.	Description	Part No.
1	Cord Assy	See Contrast table(2)	17	Handle	See Contrast table(2)
2	Screw	See Contrast table(2)	18	IM CD-ROM	See Contrast table(2)
3	Polyethylene Bag	CEG1160	19-1	Owner's Manual	See Contrast table(2)
4	Screw	See Contrast table(2)	19-2	Quick Start Guide	See Contrast table(2)
5	Screw	TRZ50P080FTC			
			19-3	Installation Manual	See Contrast table(2)
6	Polyethylene Bag	See Contrast table(2)	*	19-4 Warranty Card	See Contrast table(2)
7	Detach Grille Case	YEG5016	*	19-5 Caution Card	See Contrast table(2)
8	Unit Box	See Contrast table(2)	*	19-6 Caution Card	See Contrast table(2)
9	Contain Box	See Contrast table(2)	*	19-7 Service Network	See Contrast table(2)
10	Protector	See Contrast table(2)			
			*	19-8 Caution Card	See Contrast table(2)
11	Panel	See Contrast table(2)	20	Microphone Assy	See Contrast table(2)
12	Microphone Assy	YPM5003	21	Cap	CNW2617
13			22	Holder	YND5131
14			23	Screw	BMZ30P050FTC
15	USB Extended Cable	CDP1587			
			24	Cord	YDE5138
16	Card Remote Control Unit	See Contrast table(2)			

(2) CONTRAST TABLE

AVH-X8500BHS/XNUC, AVH-X8500BT/XNEW5, AVH-X8500BT/XNUW5, AVH-X8550BT/XNRC, AVH-X8550BT/XNRD, AVH-X8550BT/XNRI and AVH-X8590BT/XNID are constructed the same except for the following:

Mark	No.	Description	AVH-X8500BHS /XNUC	AVH-X8500BT /XNEW5	AVH-X8500BT /XNUW5	AVH-X8550BT /XNRC
	1	Cord Assy	CDP1435	CDP1436	CDP1436	CDP1435
	2	Screw	BPZ20P060FTC	Not used	Not used	Not used
	4	Screw	CRZ50P090FTC	CRZ50P090FTC	CRZ50P090FTC	Not used
	6	Polyethylene Bag	CEG1402	CEG1356	CEG1356	CEG1401
	8	Unit Box	YHG5715	YHG5716	YHG5717	YHG5718
	9	Contain Box	YHL5715	YHL5716	YHL5717	YHL5718
	10	Protector	CHP4598	CHP4599	CHP4599	CHP4598
	11	Panel	Not used	Not used	Not used	CNS9475
	16	Card Remote Control Unit	CXE5117	Not used	Not used	CXE5117
	17	Handle	Not used	CND6289	CND6289	Not used
	18	IM CD-ROM	Not used	YPJ5030	Not used	Not used
	19-1	Owner's Manual	YRD5376	Not used	YRB5258	YRD5377
	19-2	Quick Start Guide	Not used	YRD5373	Not used	Not used
	19-3	Installation Manual	Not used	YRD5375	Not used	Not used
*	19-4	Warranty Card	QRY3001	CRY1377	CRY1330	Not used
*	19-5	Caution Card	Not used	CRP1436	Not used	Not used
*	19-6	Caution Card	Not used	CRP1441	Not used	Not used
*	19-7	Service Network	Not used	Not used	Not used	Not used
*	19-8	Caution Card	YRM5016	Not used	Not used	YRM5015
	20	Microphone Assy	Not used	Not used	Not used	Not used

Mark	No.	Description	AVH-X8550BT /XNRD	AVH-X8550BT /XNRI	AVH-X8590BT /XNID
	1	Cord Assy	CDP1435	CDP1435	CDP1435
	2	Screw	Not used	Not used	Not used
	4	Screw	Not used	Not used	Not used
	6	Polyethylene Bag	CEG1401	CEG1356	CEG1401
	8	Unit Box	YHG5719	YHG5720	YHG5721
	9	Contain Box	YHL5719	YHL5720	YHL5721
	10	Protector	CHP4598	CHP4599	CHP4598
	11	Panel	CNS9475	CNS9475	CNS9475

Mark	No.	Description	AVH-X8550BT /XNRD	AVH-X8550BT /XNRI	AVH-X8590BT /XNID
	16	Card Remote Control Unit	CXE5117	CXE5117	CXE5117
	17	Handle	Not used	CND6289	Not used
	18	IM CD-ROM	Not used	Not used	Not used
	19-1	Owner's Manual	YRD5379	YRD5378	YRB5266
	19-2	Quick Start Guide	Not used	Not used	Not used
	19-3	Installation Manual	Not used	Not used	Not used
*	19-4	Warranty Card	Not used	Not used	CRY1304
*	19-5	Caution Card	Not used	Not used	Not used
*	19-6	Caution Card	Not used	Not used	Not used
*	19-7	Service Network	Not used	Not used	CRY1305
*	19-8	Caution Card	YRM5015	YRM5015	YRM5015
	20	Microphone Assy	Not used	Not used	CPM1086

Owner's Manual, Installation Manual

Part No.	Language
YRD5376	English, French, Spanish(Espanol)
YRD5373	English, French, Italian, Spanish(Espanol), German, Dutch
YRD5375	English, French, Italian, Spanish(Espanol), German, Dutch
YRB5258	Russian
YRD5377	English, Traditional Chinese, Korean
YRD5379	English, Spanish(Espanol), Portuguese(B)
YRD5378	English, Arabic, Persian
YRB5266	English

CONTENTS OF CD-ROM (Operation Manual), YPJ5030

Part No.	Language
* YRB5269	English
* YRB5270	French
* YRB5271	Italian
* YRB5272	Spanish(Espanol)
* YRB5273	German
* YRB5274	Dutch
* YRB5275	Swedish
* YRB5276	Norwegian
* YRB5277	Finnish
* YRB5278	Danish
* YRB5279	Portuguese
* YRB5280	Greek
* YRB5281	Turkish

All operation manuals are supplied in PDF files by the CD-ROM.

Regarding the availability of paper manual, contact Pioneer Service representative in your region.

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9.2 EXTERIOR (1)

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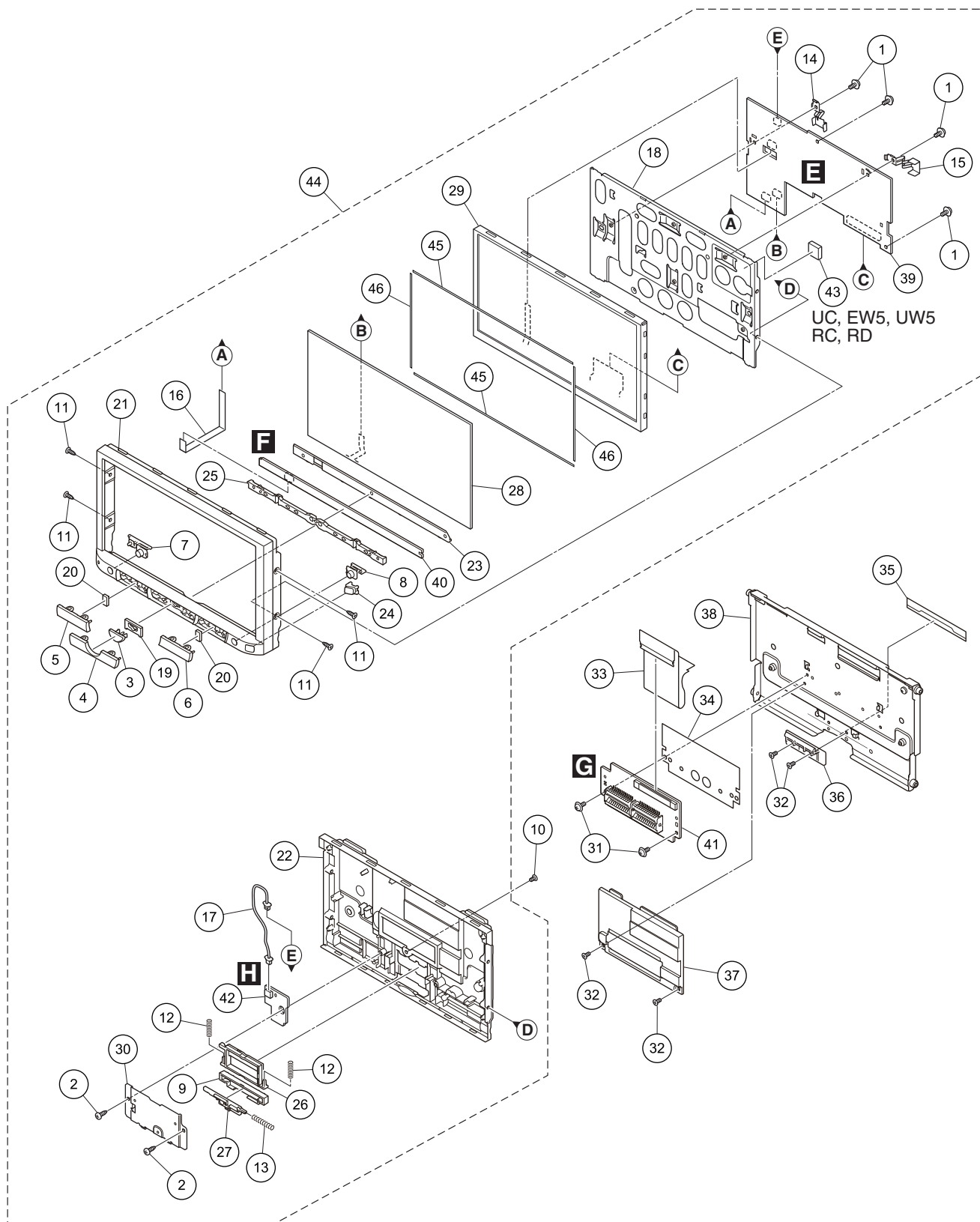
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Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	AMZ20P030FTC	26	Lever	CNW2422
2	Screw	BPZ20P060FTC	27	Lever	CNW2423
3	Button (HOME)	CAI3737	28	Touch Panel	CSX1194
4	Button (MUTE, MODE)	CAI3738	29	TFT LCD	CWX4182
5	Button (VOL)	CAI3739	30	Holder Unit	CXE4883
6	Button (TRK)	CAI3740	31	Screw	AMZ20P030FTC
7	Button (SRC, OFF)	CAI3741	32	Screw (M2 x 3)	CBA1877
8	Button (EJECT)	CAI3742	33	FFC	CDE9561
9	Button (DETACH)	CAI3743	34	Insulator	CNN3890
10	Screw (M2 x 3)	CBA1877	35	Cover	CNN4167
11	Screw	CBA2132	36	Holder	CNW2424
12	Coil Spring	CBH3099	37	Cover	CNW2425
13	Coil Spring	CBH3100	38	Case Unit	CXE4884
14	Plate Spring	CBL1832	39	Monitor Unit (Service)	YXX5128
15	Plate Spring	CBL1833	40	Key Unit (Service)	YXX5126
16	FFC	CDE9393	41	Case Unit (Service)	YXX5127
17	Cable Harness	CDE9563	42	SW Unit (Service)	YXX5129
18	Holder	CND6398	43	Gasket	See Contrast table(2)
19	Cushion	CNN3888	44	Detach Unit (Service)	See Contrast table(2)
20	Cushion	CNN3889	45	Cushion	CNN4271
21	Grille	See Contrast table(2)	46	Cushion	CNN4272
22	Cover	CNU1825			
23	Spacer	CNW2111			
24	Lighting Conductor	CNW2420			
25	Lighting Conductor	CNW2421			

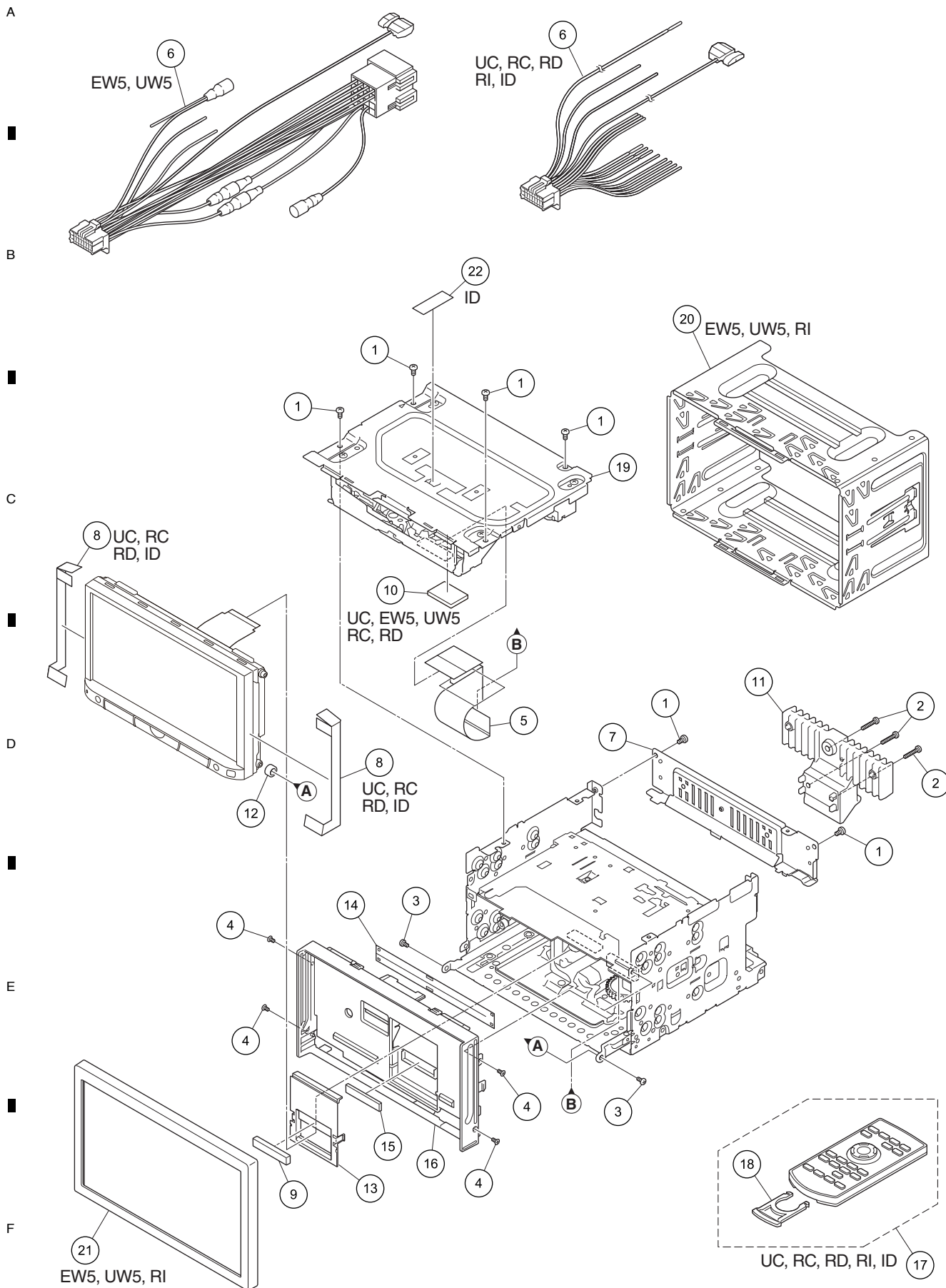
(2) CONTRAST TABLE

AVH-X8500BHS/XNUC, AVH-X8500BT/XNEW5, AVH-X8500BT/XNUW5, AVH-X8550BT/XNRC, AVH-X8550BT/XNRD, AVH-X8550BT/XNRI and AVH-X8590BT/XNID are constructed the same except for the following:

Mark	No.	Description	AVH-X8500BHS /XNUC	AVH-X8500BT /XNEW5	AVH-X8500BT /XNUW5	AVH-X8550BT /XNRC
	21	Grille	YNS5726	YNS5727	YNS5727	YNS5728
	43	Gasket	CNN2529	CNN2529	CNN2529	CNN2529
	44	Detach Unit (Service)	YXX5132	YXX5130	YXX5131	YXX5133

Mark	No.	Description	AVH-X8550BT /XNRD	AVH-X8550BT /XNRI	AVH-X8590BT /XNID
	21	Grille	YNS5728	YNS5728	YNS5729
	43	Gasket	CNN2529	Not used	Not used
	44	Detach Unit (Service)	YXX5133	YXX5134	YXX5135

9.3 EXTERIOR (2)



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(1) EXTERIOR (2) SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BSZ26P060FTC	16	Panel	See Contrast table(2)
2	Screw	BSZ26P120FTC	17	Card Remote Control Unit	See Contrast table(2)
3	Screw	CBA1735	18	Battery Cover	See Contrast table(2)
4	Screw (M2 x 3)	CBA1877	19	DVD Mechanism Module (LS2)	CXK8004
5	FFC	CDE9558	20	Holder	See Contrast table(2)
6	Cord Assy	See Contrast table(2)	21	Panel	See Contrast table(2)
7	Holder	CND6246	22	Label	See Contrast table(2)
8	Sheet	See Contrast table(2)			
9	Cushion	CNN3893			
10	Spacer	See Contrast table(2)			
11	Heat Sink	CNR2147			
12	Collar	CNW2038			
13	Cover	CNW2316			
14	Cover	QNM3029			
15	Cushion	CNN3206			

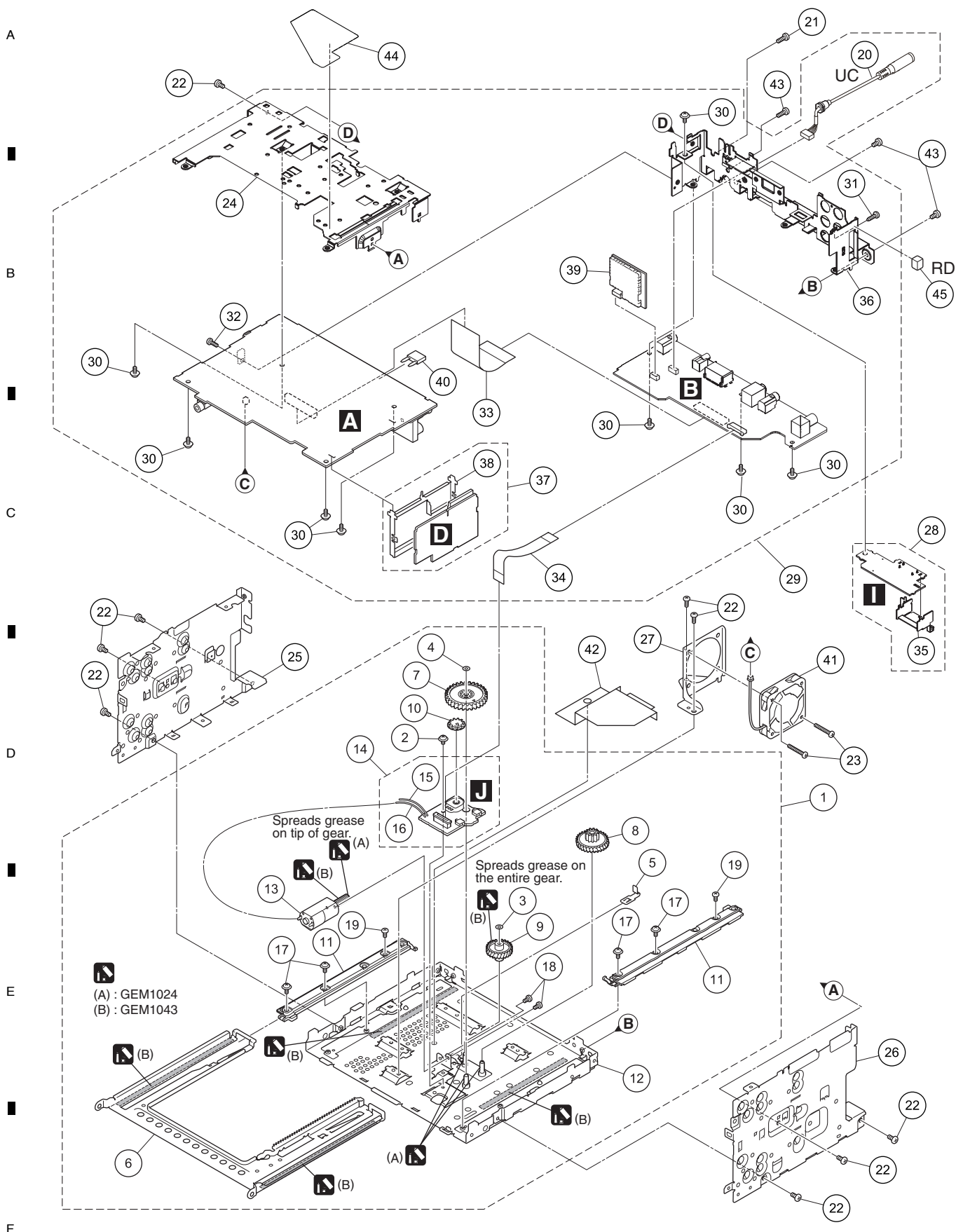
(2) CONTRAST TABLE

AVH-X8500BHS/XNUC, AVH-X8500BT/XNEW5, AVH-X8500BT/XNUW5, AVH-X8550BT/XNRC, AVH-X8550BT/XNRD, AVH-X8550BT/XNRI and AVH-X8590BT/XNID are constructed the same except for the following:

Mark	No.	Description	AVH-X8500BHS /XNUC	AVH-X8500BT /XNEW5	AVH-X8500BT /XNUW5	AVH-X8550BT /XNRC
	6	Cord Assy	CDP1435	CDP1436	CDP1436	CDP1435
	8	Sheet	CNN3089	Not used	Not used	CNN3089
	10	Spacer	CNN4042	CNN4042	CNN4042	CNN4042
	16	Panel	YNS5733	YNS5734	YNS5734	YNS5735
	17	Card Remote Control Unit	CXE5117	Not used	Not used	CXE5117
	18	Battery Cover	CNU1624	Not used	Not used	CNU1624
	20	Holder	Not used	CND6288	CND6288	Not used
	21	Panel	Not used	CNS9952	CNS9952	Not used
	22	Label	Not used	Not used	Not used	Not used

Mark	No.	Description	AVH-X8550BT /XNRD	AVH-X8550BT /XNRI	AVH-X8590BT /XNID
	6	Cord Assy	CDP1435	CDP1435	CDP1435
	8	Sheet	CNN3089	Not used	CNN3089
	10	Spacer	CNN4042	Not used	Not used
	16	Panel	YNS5735	YNS5735	YNS5735
	17	Card Remote Control Unit	CXE5117	CXE5117	CXE5117
	18	Battery Cover	CNU1624	CNU1624	CNU1624
	20	Holder	Not used	CND6288	Not used
	21	Panel	Not used	CNS9952	Not used
	22	Label	Not used	Not used	CNN3533

9.4 EXTERIOR (3)



Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Drive Unit	CXE3878	26	Bracket	CND6335
2	Screw	AMZ26P030FTC	27	Bracket	CND6399
3	Washer	CBF1039	28	HDMI Unit	YWM5608
4	Washer	CBF1064	29	Mother Unit (Service)	See Contrast table(2)
5	Spring	EBL1034	30	Screw	ASZ26P050FTC
6	Frame	ENC2001	31	Screw	BPZ26P080FTC
7	Gear	ENV1630	32	Screw	BSZ26P080FTC
8	Gear	ENV1631	33	FFC	See Contrast table(2)
9	Gear	ENV1632	34	FFC	CDE9560
10	Gear	ENV1635	35	Holder	YND5130
11	Guide	ENV3001	36	Holder	See Contrast table(2)
12	Chassis Unit	EXA4001	37	WWR Core TUN Unit	See Contrast table(2)
13	Motor Unit	EXA4003	38	Holder	CND5830
14	PCB Unit (Service)	EXX2001	39	BT Module	CWX4356
* 15	Cord (Green)	CDC1056	⚠ 40	Fuse (10 A)	YEK5001
* 16	Cord (White)	CDC1057	41	Fan Motor	CXM1446
17	Screw	IMS26P060FTC	42	Sheet	CNN4190
18	Screw	JFZ20P025FTC	43	Screw	BSZ26P060FTC
19	Screw	EBA2002	44	Sheet	YNN5068
20	Cord	See Contrast table(2)	45	Gasket	See Contrast table(2)
21	Screw	BMZ30P060FTC			
22	Screw	BSZ26P050FTC			
23	Screw	BPZ30P140FTC			
24	Holder	YND5129			
25	Bracket	CND6275			

(2) CONTRAST TABLE

AVH-X8500BHS/XNUC, AVH-X8500BT/XNEW5, AVH-X8500BT/XNUW5, AVH-X8550BT/XNRC, AVH-X8550BT/XNRD, AVH-X8550BT/XNRI and AVH-X8590BT/XNID are constructed the same except for the following:

Mark	No.	Description	AVH-X8500BHS /XNUC	AVH-X8500BT /XNEW5	AVH-X8500BT /XNUW5	AVH-X8550BT /XNRC
	20	Cord	YDE5137	Not used	Not used	Not used
	29	Mother Unit (Service)	YXX5120	YXX5118	YXX5119	YXX5121
	33	FFC	YDE5146	CDE9559	CDE9559	CDE9559
	36	Holder	YND5127	YND5128	YND5126	YND5126
	37	WWR Core TUN Unit	CWE2347	*Tuner PCB	*Tuner PCB	*Tuner PCB
	45	Gasket	Not used	Not used	Not used	Not used

Mark	No.	Description	AVH-X8550BT /XNRD	AVH-X8550BT /XNRI	AVH-X8590BT /XNID
	20	Cord	Not used	Not used	Not used
	29	Mother Unit (Service)	YXX5122	YXX5123	YXX5124
	33	FFC	CDE9559	CDE9559	CDE9559
	36	Holder	YND5126	YND5126	YND5126
	37	WWR Core TUN Unit	*Tuner PCB	*Tuner PCB	*Tuner PCB
	45	Gasket	CNN4172	Not used	Not used

9.5 DVD MECHANISM MODULE (1)

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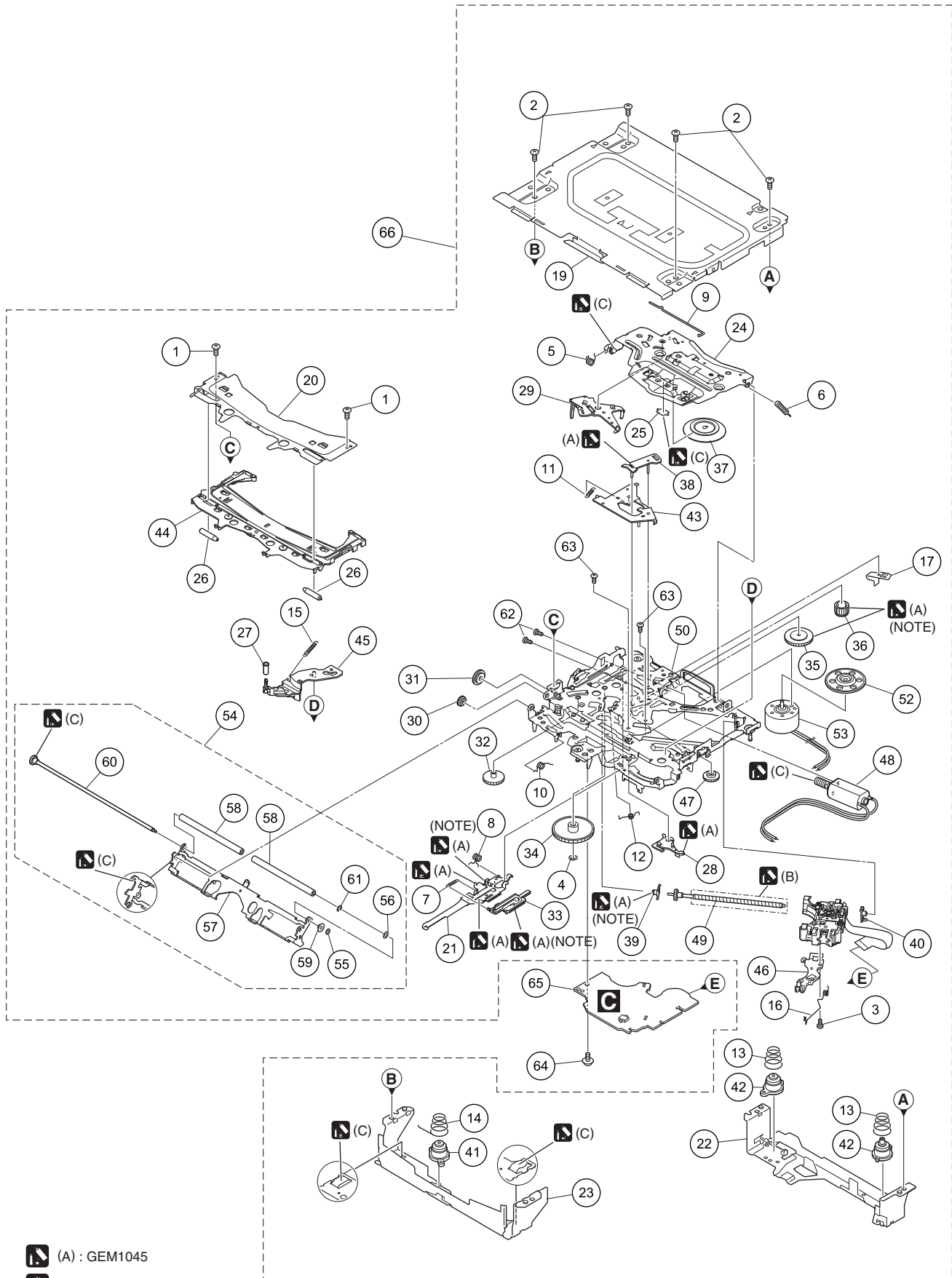
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- (A) : GEM1045
- (B) : GEM1038
- (C) : GEM1024

(NOTE) Apply grease to the whole part.

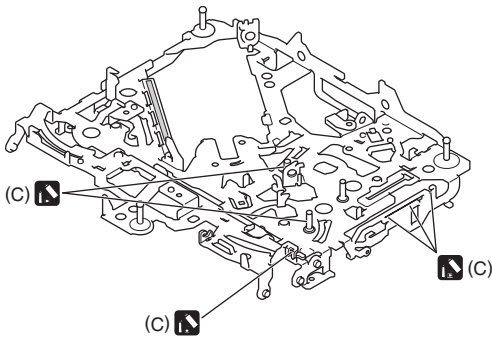
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	Screw	BSZ20P040FTC	49	Screw Unit	CXC8894	
2	Screw	BSZ26P060FTC	* 50	Chassis Unit	CXE4047	A
3	Screw (M2 x 4)	CBA1835	51	*****		
4	Washer	CBF1038	* 52	Support Wheel	CNW2052	
5	Spring	CBH2855	* 53	Spindle Motor(M2)(SPINDLE)	EXM2002	
6	Spring	CBH2860	54	Arm Assy	CXE5027	
7	Spring	CBH3010	55	Washer	CBF1037	
8	Spring	CBH3011	56	Washer	CBF1038	
9	Spring	CBH3014	57	Arm	CND6242	
10	Spring	CBH3015	58	Roller	CNW1196	
11	Spring	CBH3016	59	Collar	CNW2444	B
12	Spring	CBH3017	60	Gear Unit	CXC8893	
13	Spring	CBH3019	61	Washer	YE15FTC	
14	Spring	CBH3086	62	Screw	JFZ20P025FTC	
15	Spring	CBH3095	63	Screw	JGZ17P020FTC	
16	Spring	CBH3096	64	Screw (M2 x 5)	EBA1028	
17	Plate Spring	CBL1824	65	DVD Core Unit	YWX5033	
18	*****		66	Mechanism Unit(Service)	CXX4549	
19	Case	CNB3762				
20	Bracket	CND4553				C
21	Lever	CND5398				
22	Bracket	CND5710				
23	Bracket	CND6127				
24	Arm	CND6406				
25	Sheet	CNN3678				
26	Roller	CNW1172				
27	Roller	CNW1175				
28	Arm	CNW1177				
29	Arm	CNW1178				D
30	Gear	CNW1180				
31	Gear	CNW1181				
32	Gear	CNW1183				
33	Rack	CNW1184				
34	Gear	CNW1185				
35	Gear	CNW1186				
36	Gear	CNW1187				
37	Clamper	CNW1190				E
38	Arm	CNW1192				
39	Holder	CNW1193				
40	Holder	CNW1194				
41	Damper	CNW1197				
42	Damper	CNW1198				
43	Arm	CNW1726				
44	Guide	CNW2240				
45	Arm	CNW2241				
46	Rack	CNW2265				F
47	Gear	CNW2287				
48	Motor Unit(M1)(CRG(L/E))	CXC4026				

Pickup, Spindle Motor and Support Wheel are not available as service parts, because they need adjustment by special equipment after replacing.

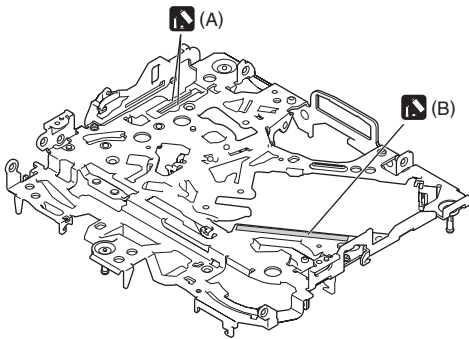
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9.6 CD MECHANISM MODULE (2)

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

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AVH-X8500BHS/XNUC

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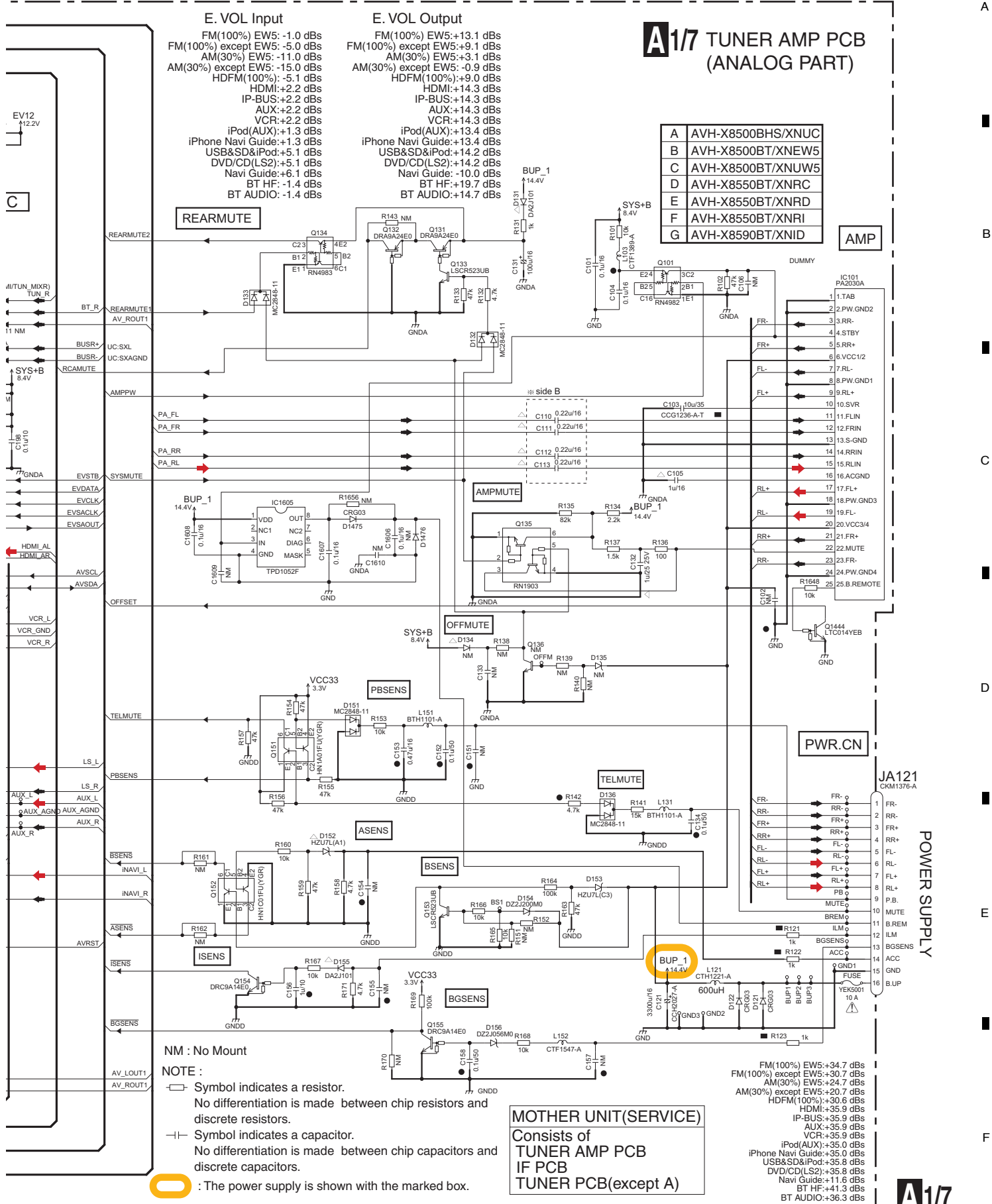
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10.1 TUNER AMP PCB (ANALOG PART)



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



10.2 TUNER AMP PCB (SYSTEM PART) (GUIDE PAGE)

A-a 2/7

B CN2162

SYSTEM u-COM

CN601 NM

except B

	R643	R645	R646	R648	R649	R650
A	NM	NM	NM	NM	NM	NM
B	47k	NM	47k	NM	47k	NM
C	47k	NM	47k	NM	47k	NM
D	47k	NM	47k	NM	47k	NM
E	NM	47k	47k	NM	47k	NM
F	NM	47k	NM	47k	47k	NM

DUMMY	
A	IC601
A	PEQ135A8
except A	PEQ136A8

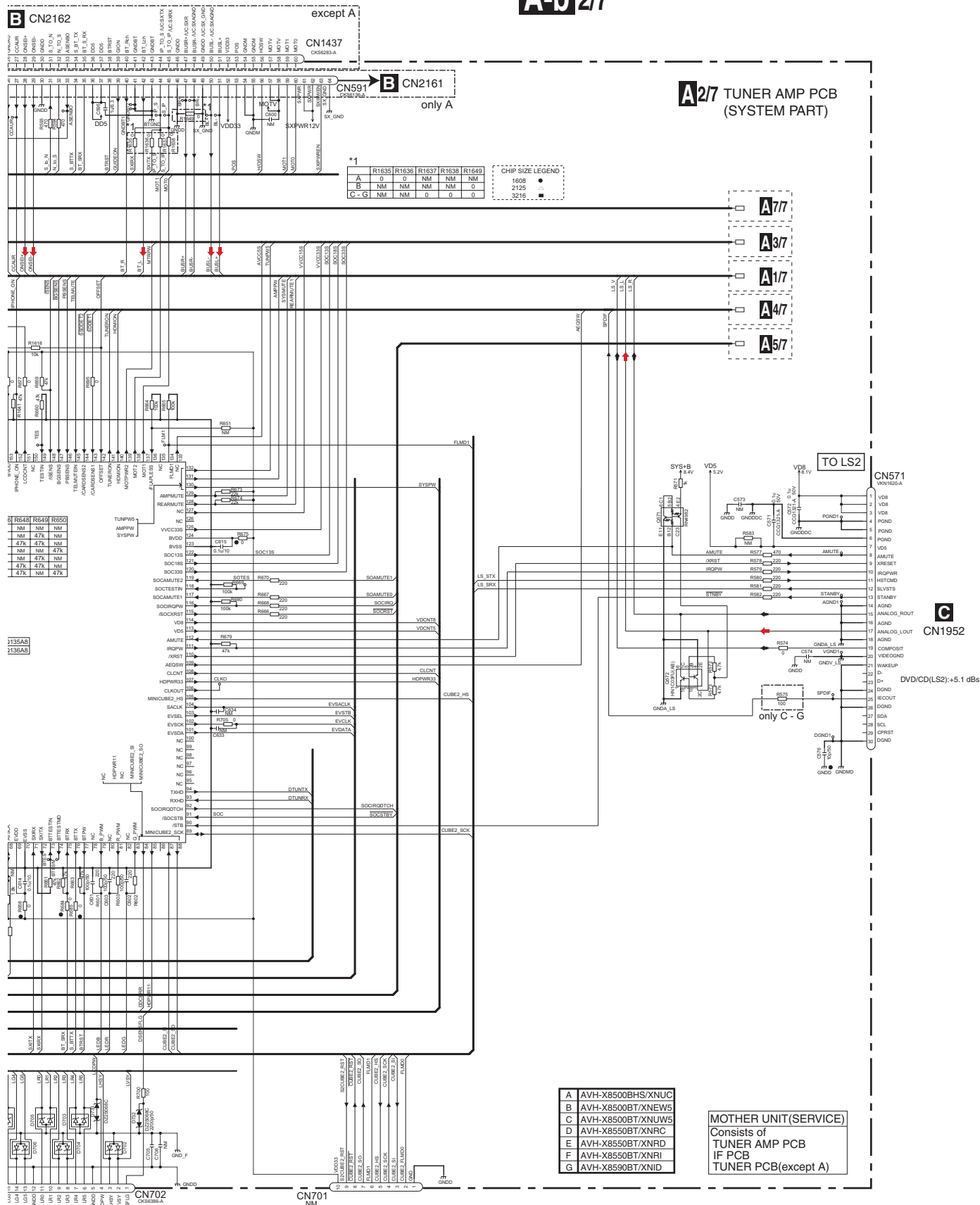
*3	
A	C707
A	Z2050
except A	10p50

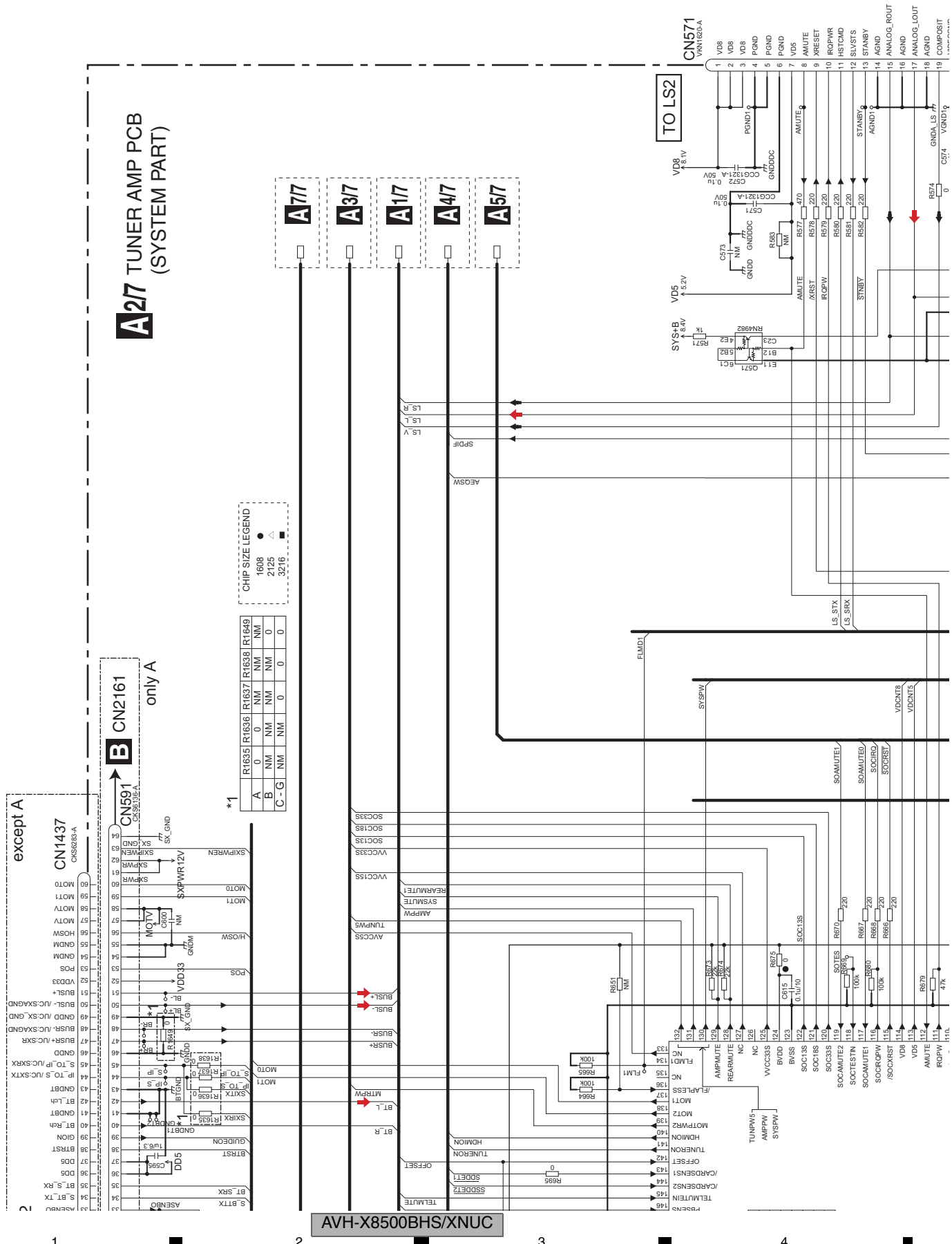
G CN3003

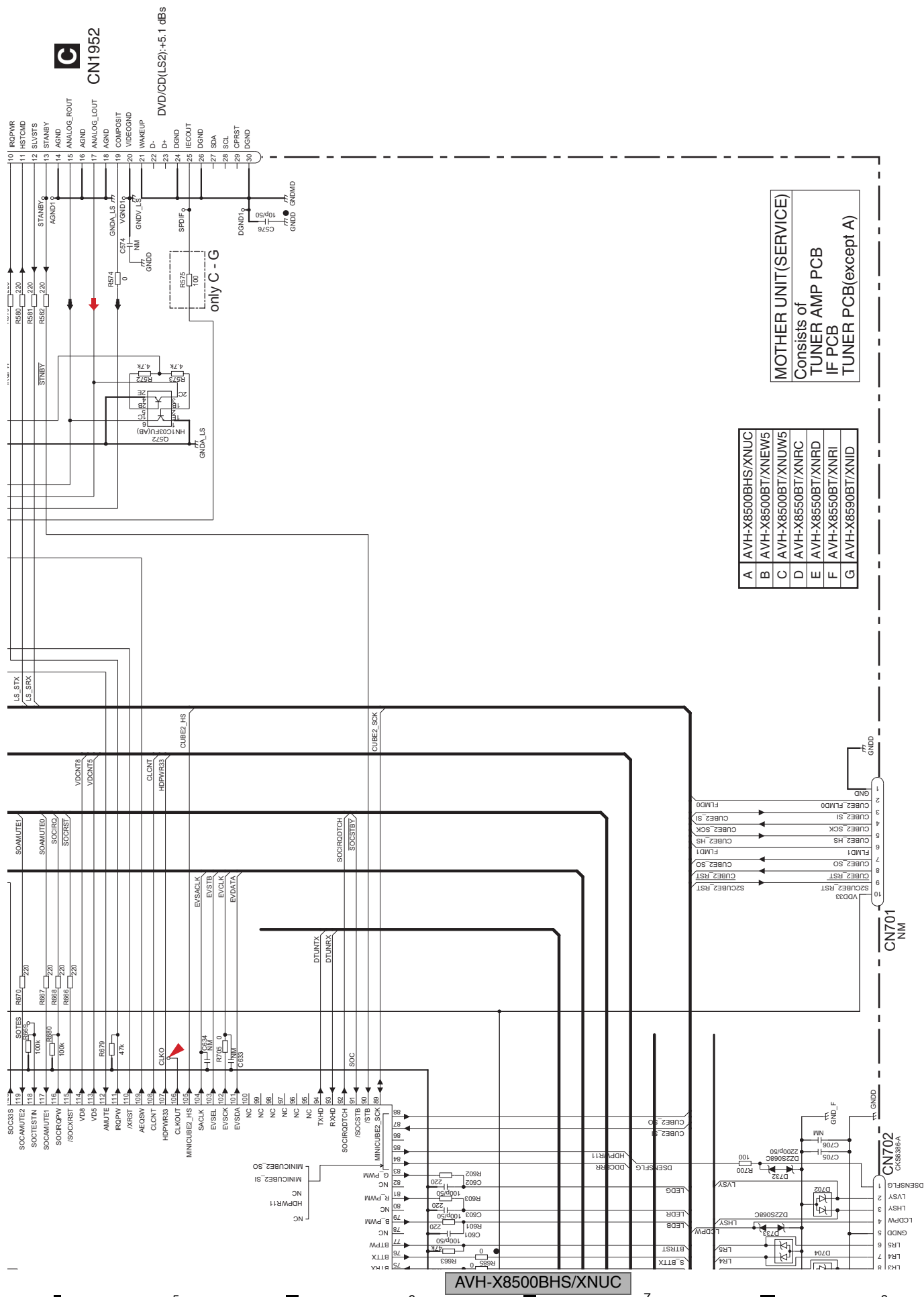
AVH-X8500BHS/XNUC

A2/7

A-b 2/7







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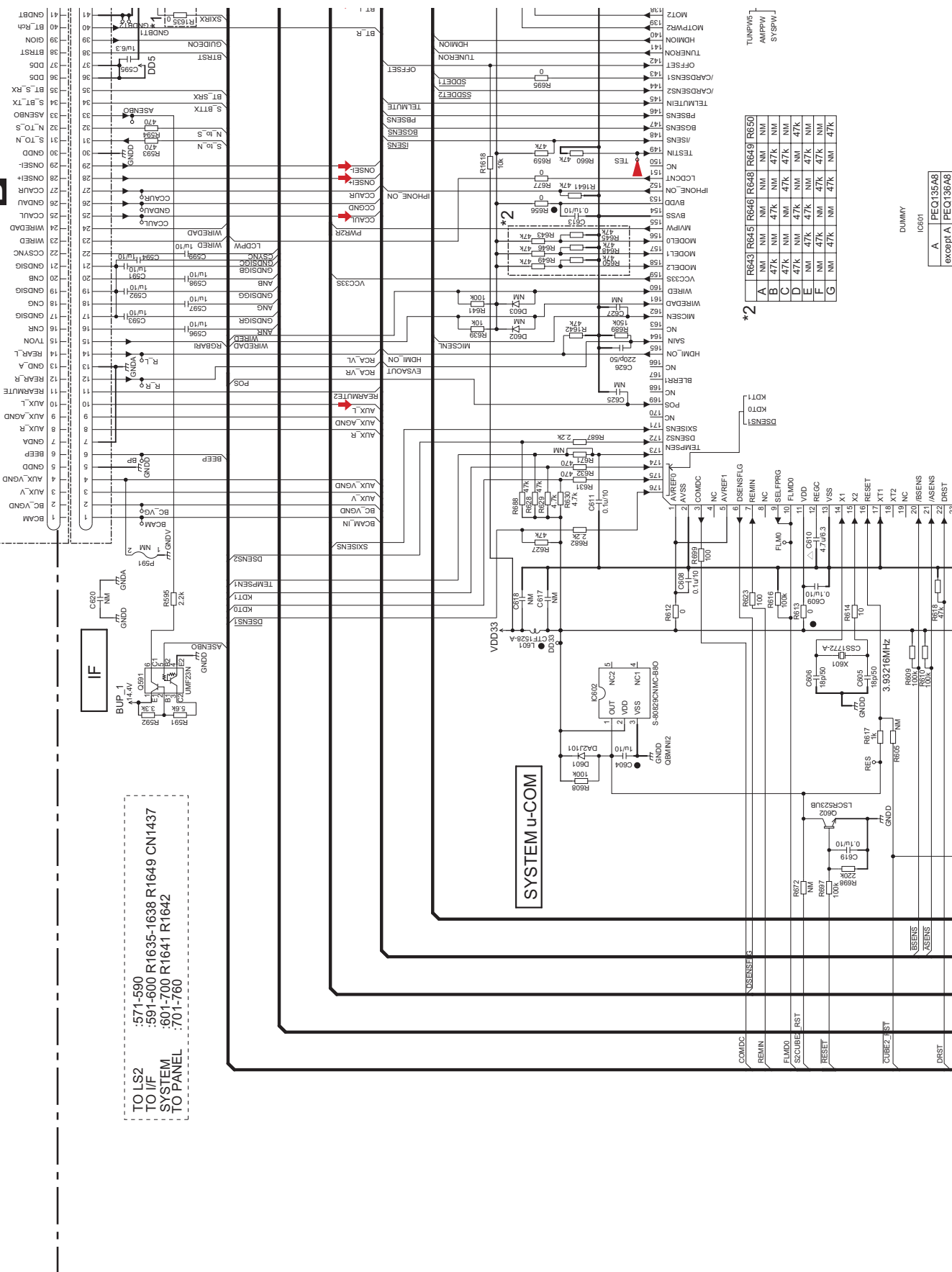
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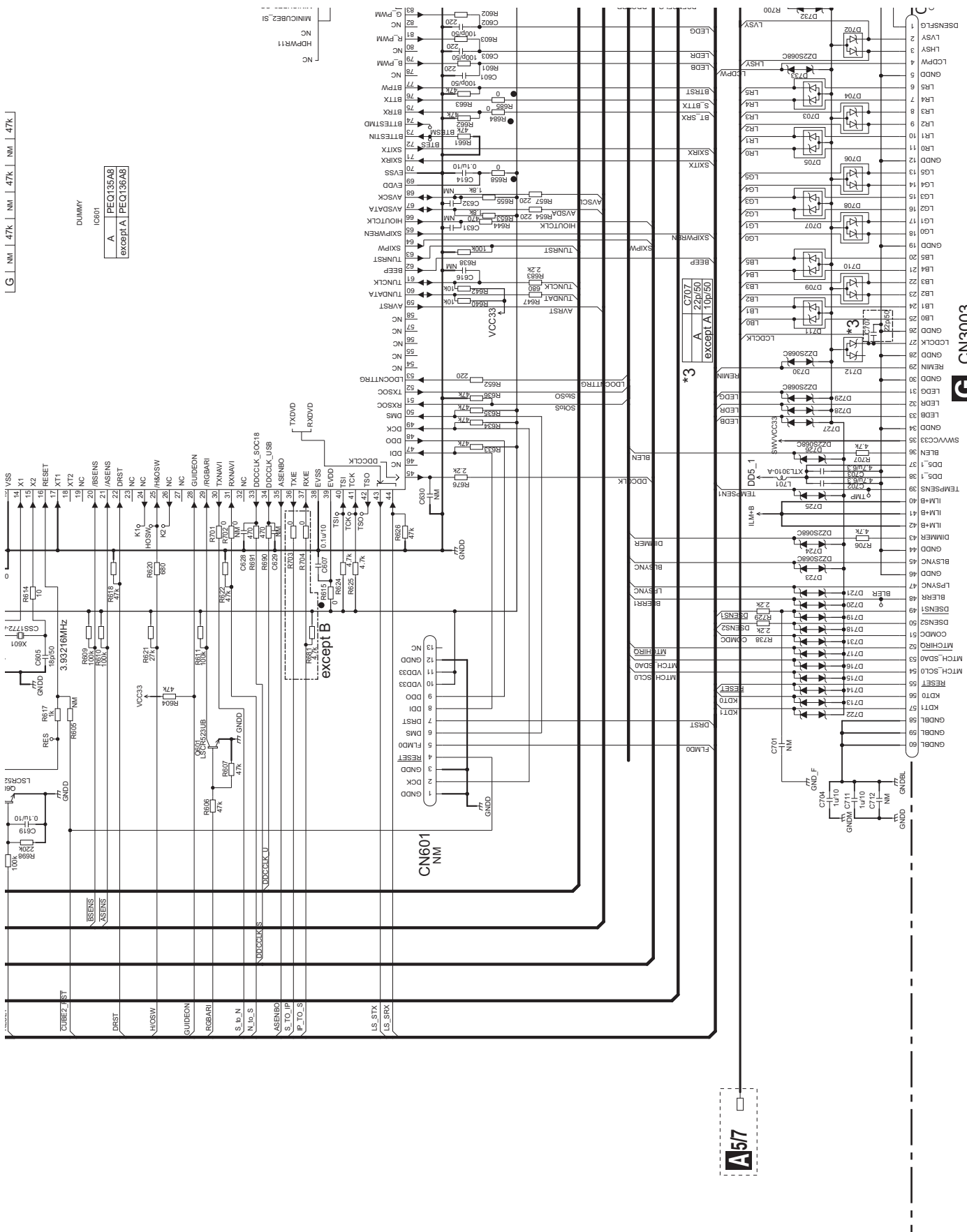
A-b 2/7

B CN2162



A-a 2/7

AVH-X8500BHS/XNUC



A-b 2/7

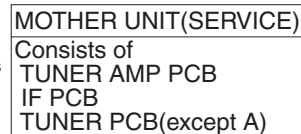
G CN3003

A-a	A-b
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A 3/7



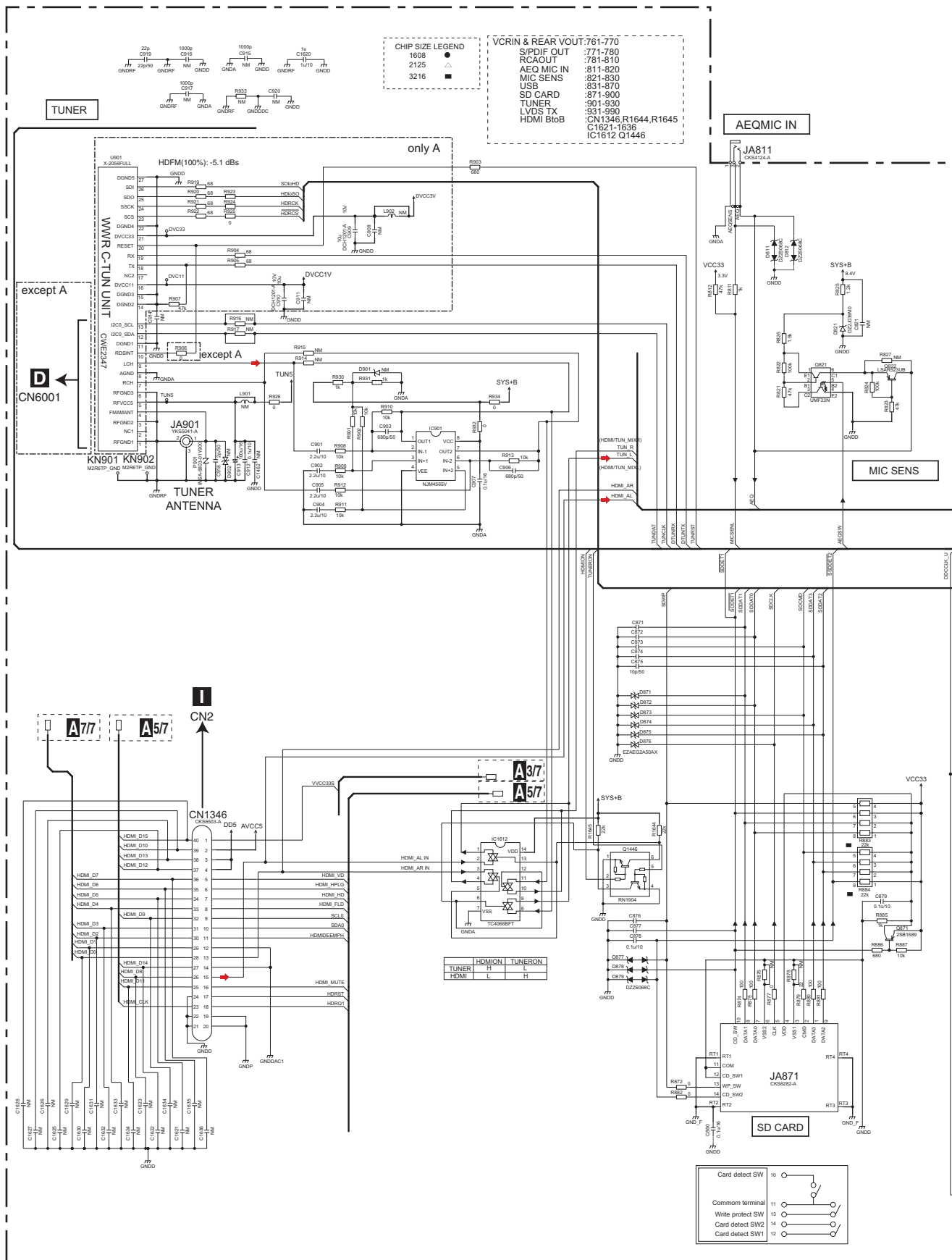
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A3/7

10.4 TUNER AMP PCB (I/O PART) (GUIDE PAGE)

A-a 4/7

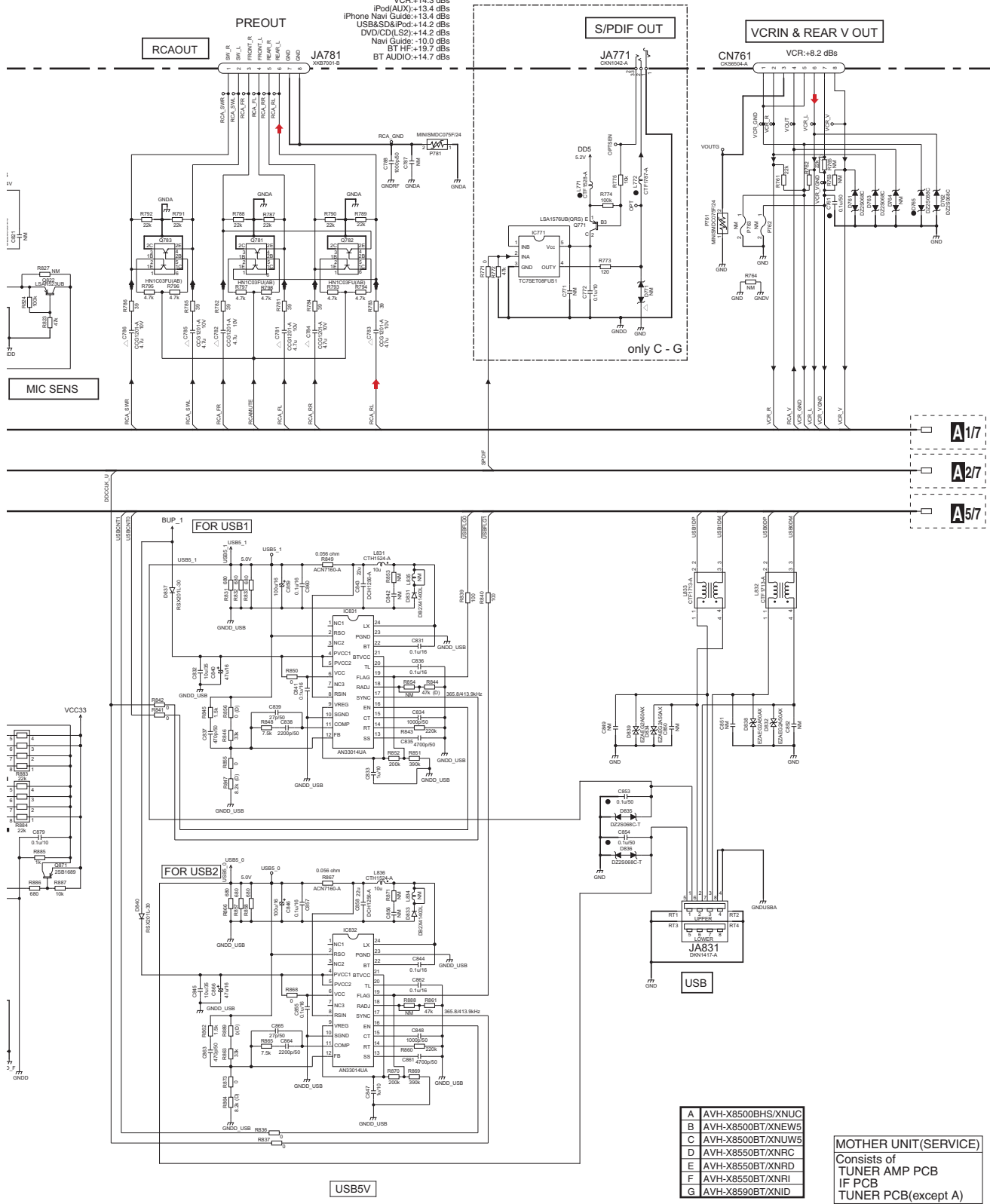


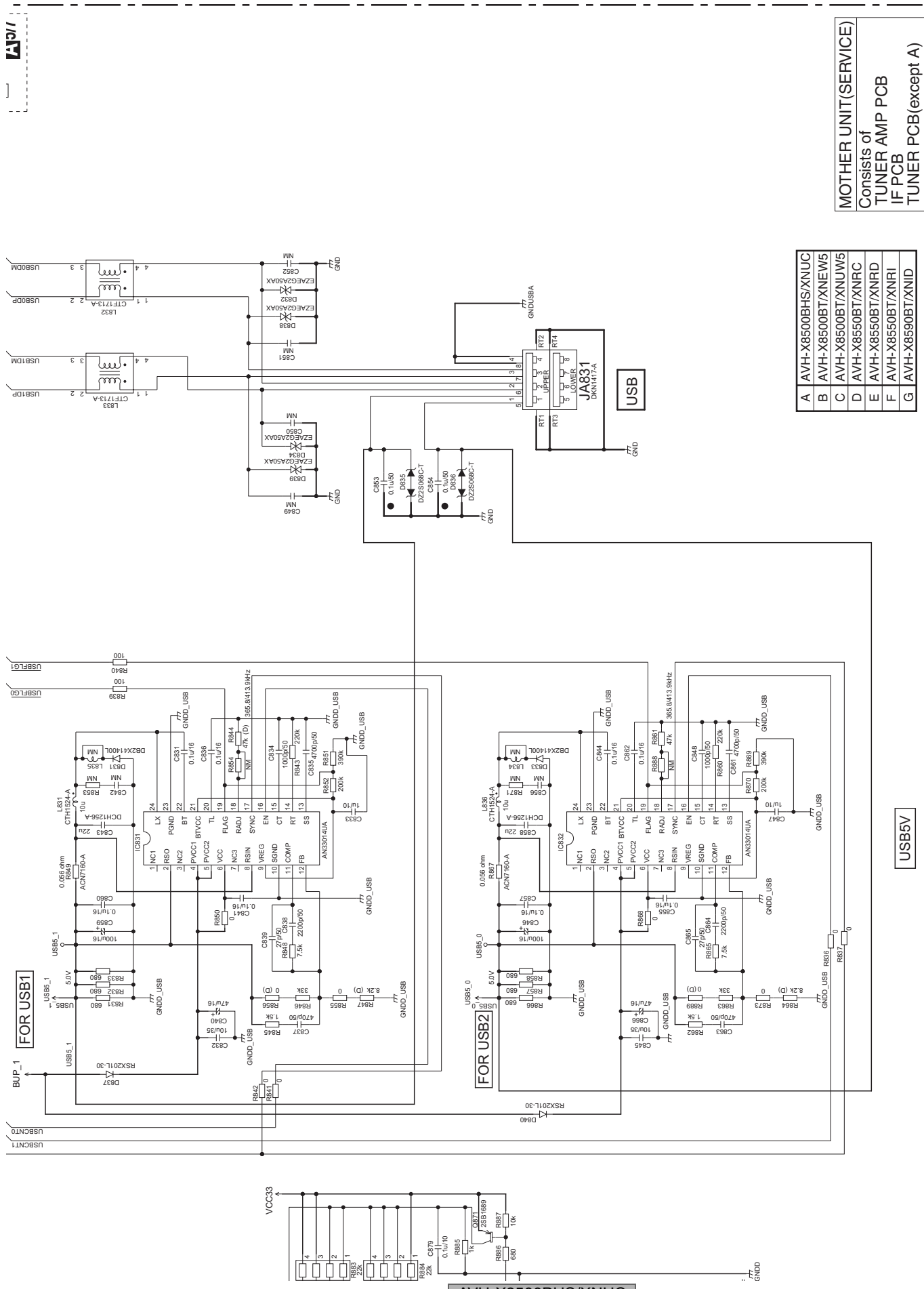
A-b 4/7

A4/7 TUNER AMP PCB
(I/O PART)

RCA Output

FM(100%) EW5:+13.1 dBs
FM(100%) except EW5:+9.1 dBs
AM(30%) EW5:+3.1 dBs
AM(30%) except EW5:-0.9 dBs
HDFM(100%):+9.0 dBs
HDMI:+14.3 dBs
IP-BUS:+14.3 dBs
AUX:+14.3 dBs
VCR:+14.3 dBs
iPod/AUX:+13.4 dBs
iPhone Navi Guide:+13.4 dBs
USB&SD&iPod:+14.2 dBs
DVD/CD(L.S2):+14.2 dBs
Navi Guide:-10.0 dBs
BT HF:-19.7 dBs
BT AUDIO:+14.7 dBs





AVH-X8500BHS/XNUC

MOTHER UNIT(SERVICE)

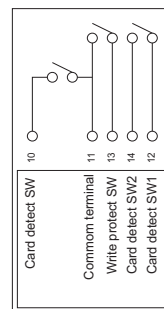
Consists of
 TUNER AMP PCB
 IF PCB
 TUNER PCB(except A)

A	AVH-X8500BHS/XNUC
B	AVH-X8500BT/XNEW5
C	AVH-X8500BT/XNUW5
D	AVH-X8550BT/XNRC
E	AVH-X8550BT/XNRD
F	AVH-X8550BT/XNRI
G	AVH-X8590BT/XNID

A-b 4/7

A-a A-b

A B C D E F



A-a 5/7

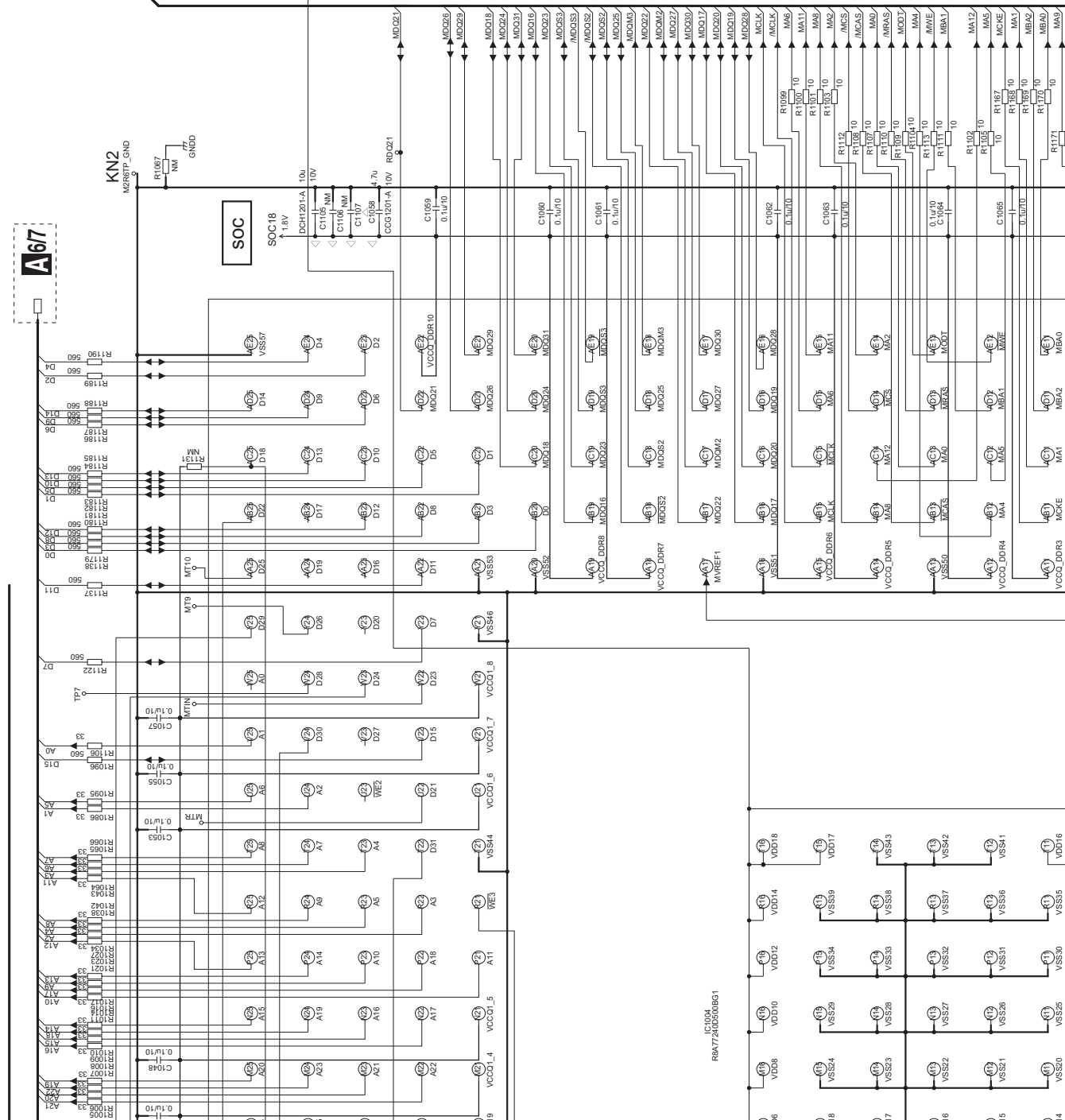


F

MOTHER UNIT(SERVICE)
Consists of TUNER AMP PCB IF PCB TUNER PCB(except A)



A57 TUNER AMP PCB (R2R IC PART)



A-b 5/7

AVH-X8500BHS/XNUC



A	AVH-X8500BHS/XNUC
B	AVH-X8500BT/XNEW5
C	AVH-X8500BT/XNUW5
D	AVH-X8550BT/XNRC
E	AVH-X8550BT/XNRD
F	AVH-X8550BT/XNRI
G	AVH-X8590BT/XNID

MOTHER UNIT(SERVICE)
Consists of
TUNER AMP PCB
IF PCB
TUNER PCB(except A)

CHIP SIZE LEGEND

1608	●
2125	△
3216	■

	C1108
A	33p/50
except A	56p/50

F

A-a 5/7



A-a 6/7

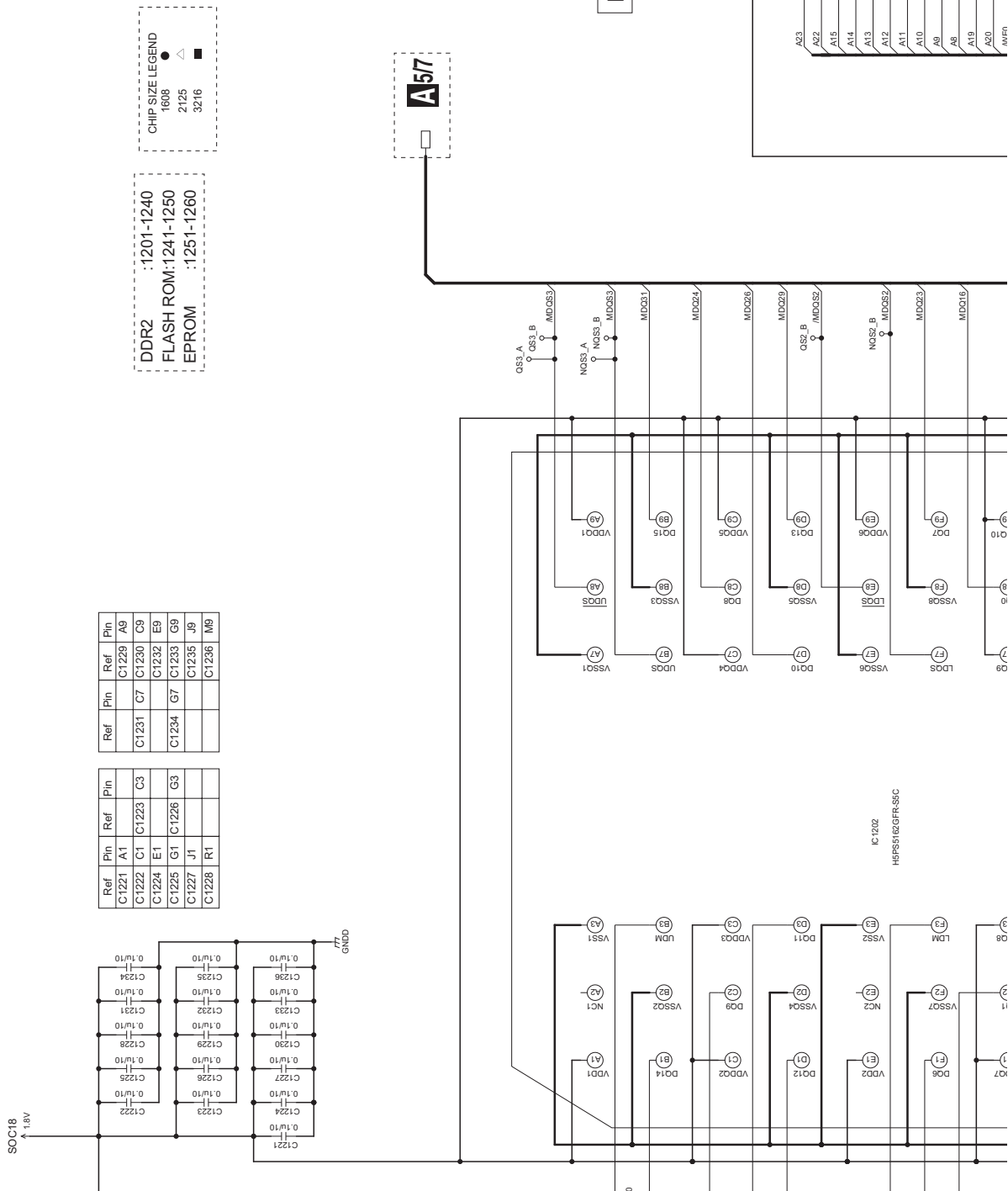


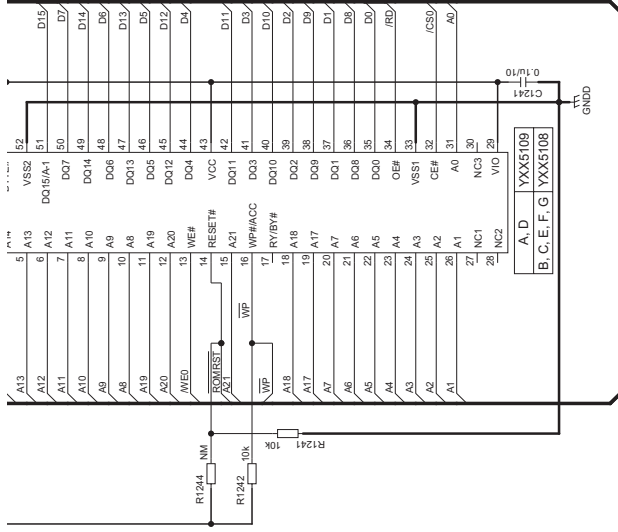
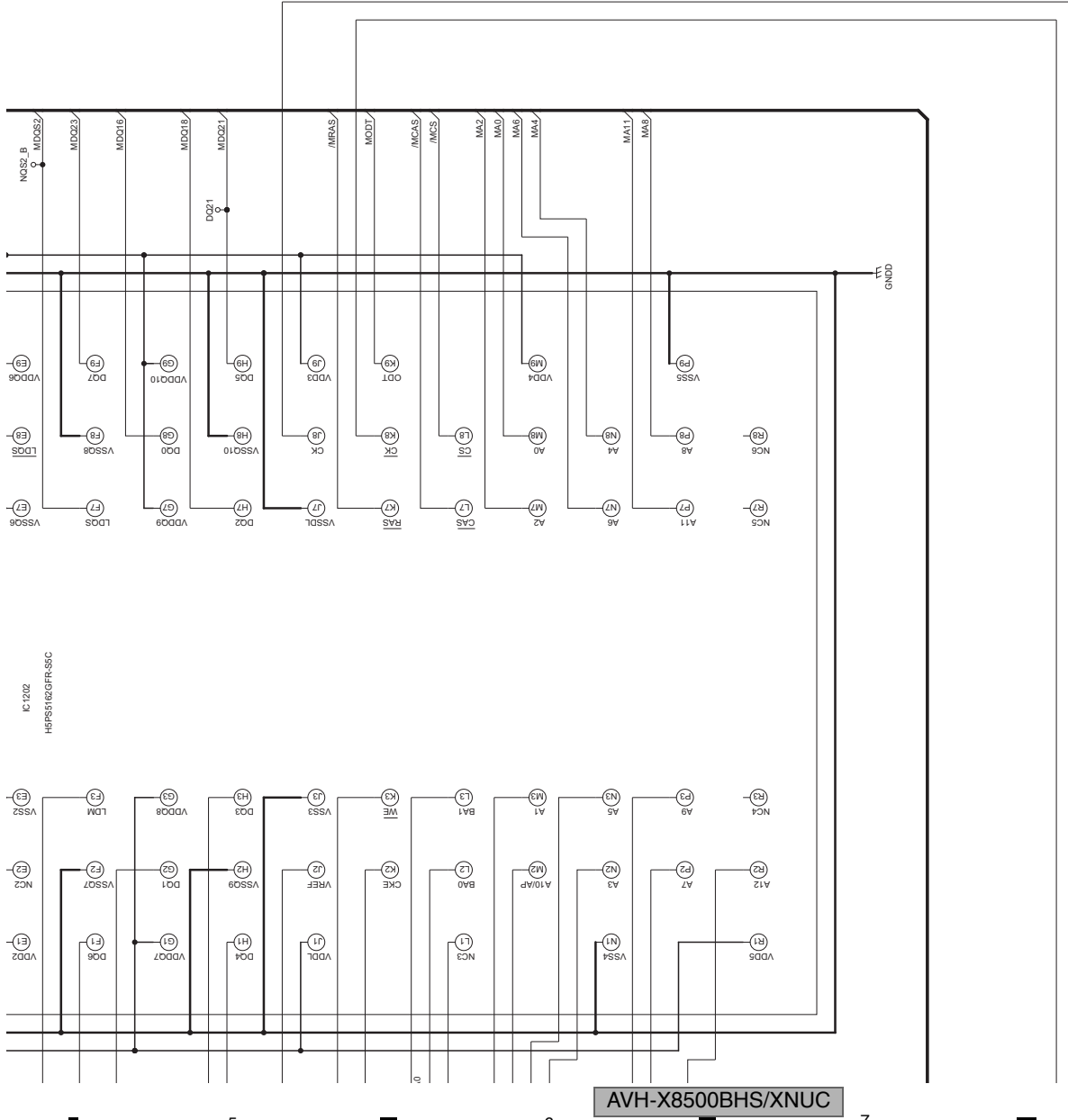
A6/7 TUNER AMP PCB
(DDR/FLASHROM FOR R2R PART)



MOTHER UNIT(SERVICE)
Consists of TUNER AMP PCB IF PCB TUNER PCB(except A)

A67 TUNER AMP PCB
(DDR/FLASHROM FOR R2R PART)





A	AVH-X8500BHS/XNUC
B	AVH-X8500BT/XNEW5
C	AVH-X8500BT/XNUW5
D	AVH-X8550BT/XNRC
E	AVH-X8550BT/XNRD
F	AVH-X8550BT/XNRI
G	AVH-X8590BT/XNID

MOTHER UNIT(SERVICE)
Consists of
TUNER AMP PCB
IF PCB
TUNER PCB(except A)

A-b 6/7

A-a A-b

A B C D E F

10.7 TUNER AMP PCB (VDEC/VENC PART)

A

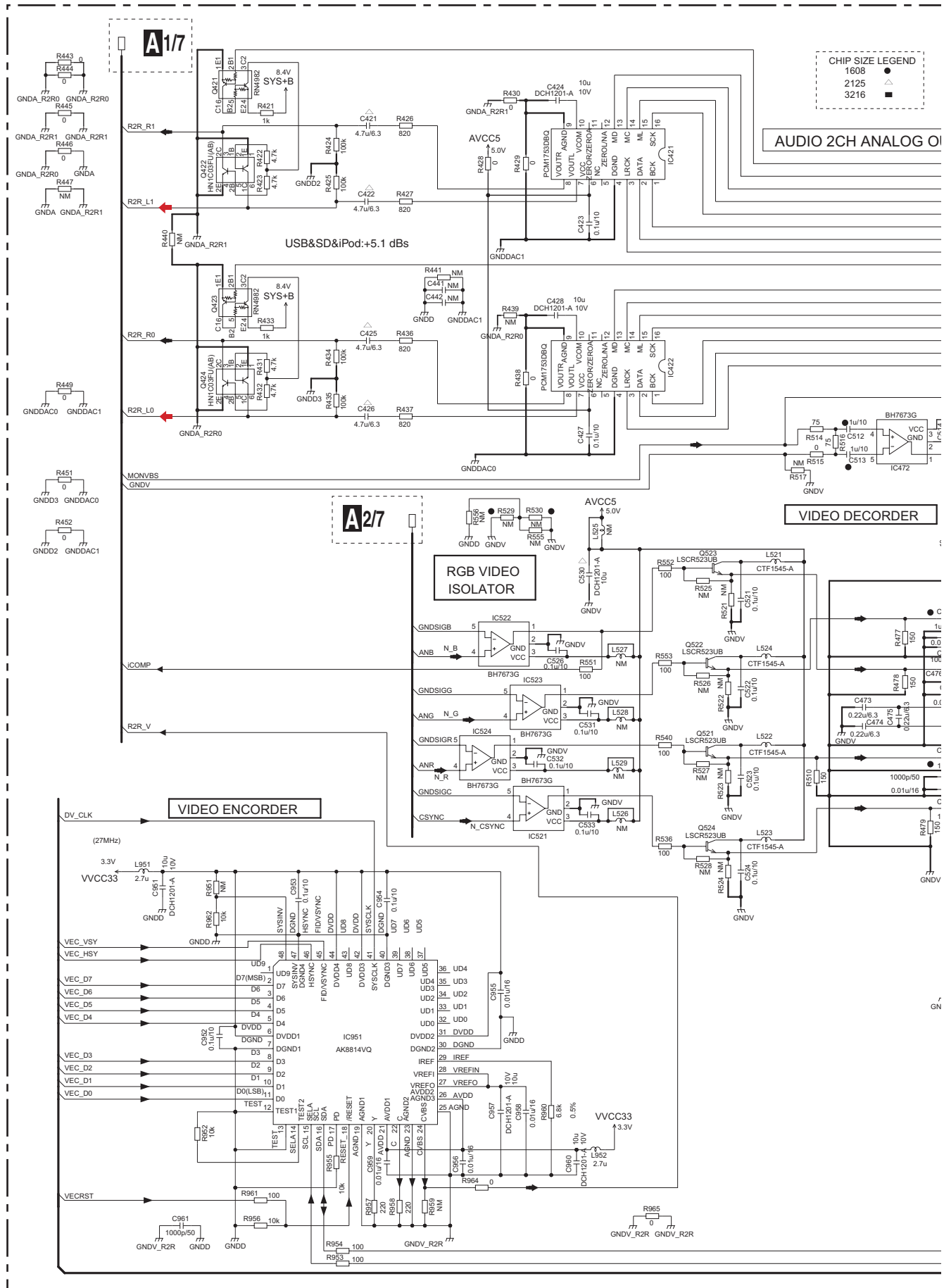
B

C

D

E

F

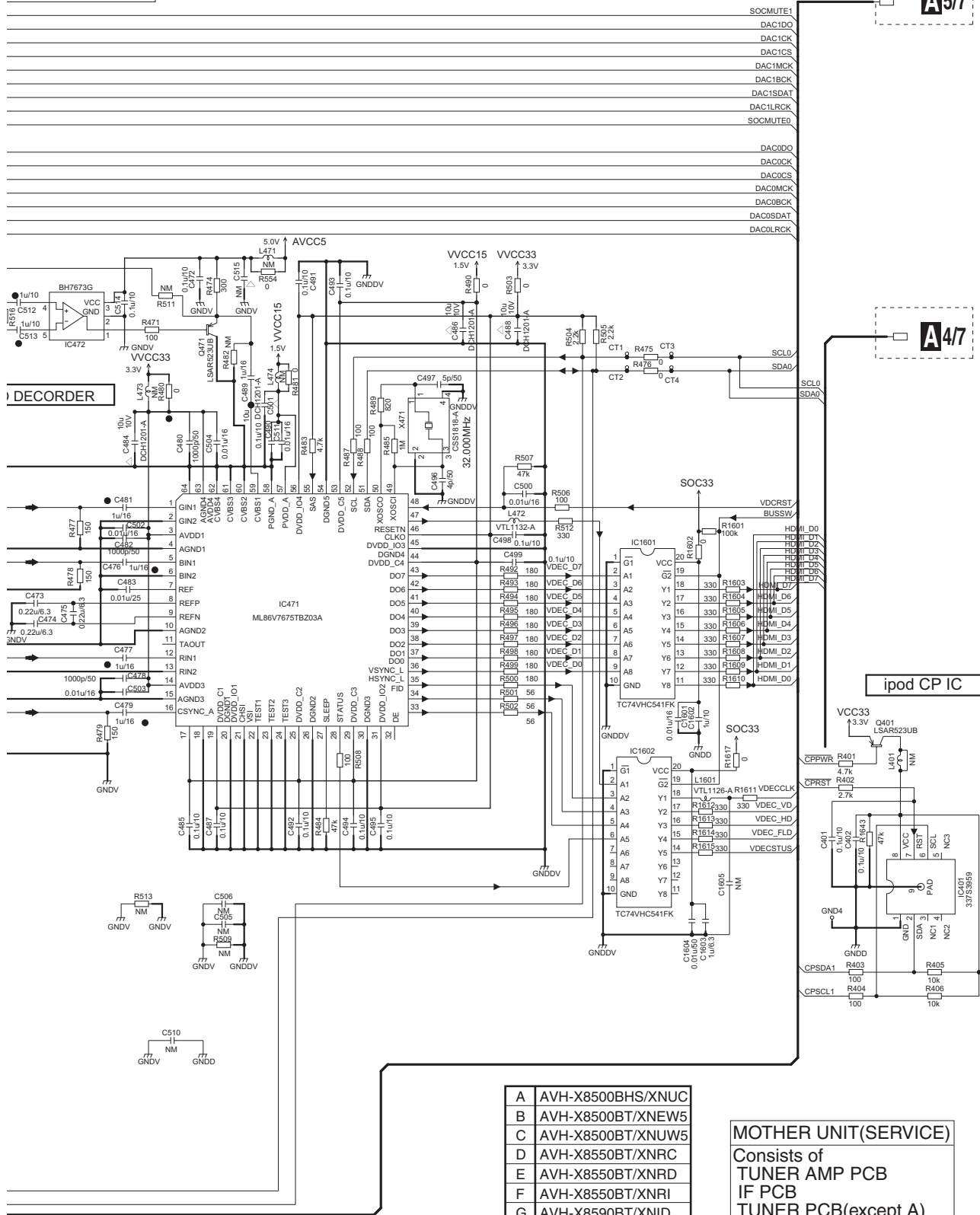


CHIP SIZE LEGEND
1608 
2125 
3216 

CH ANALOG OUT

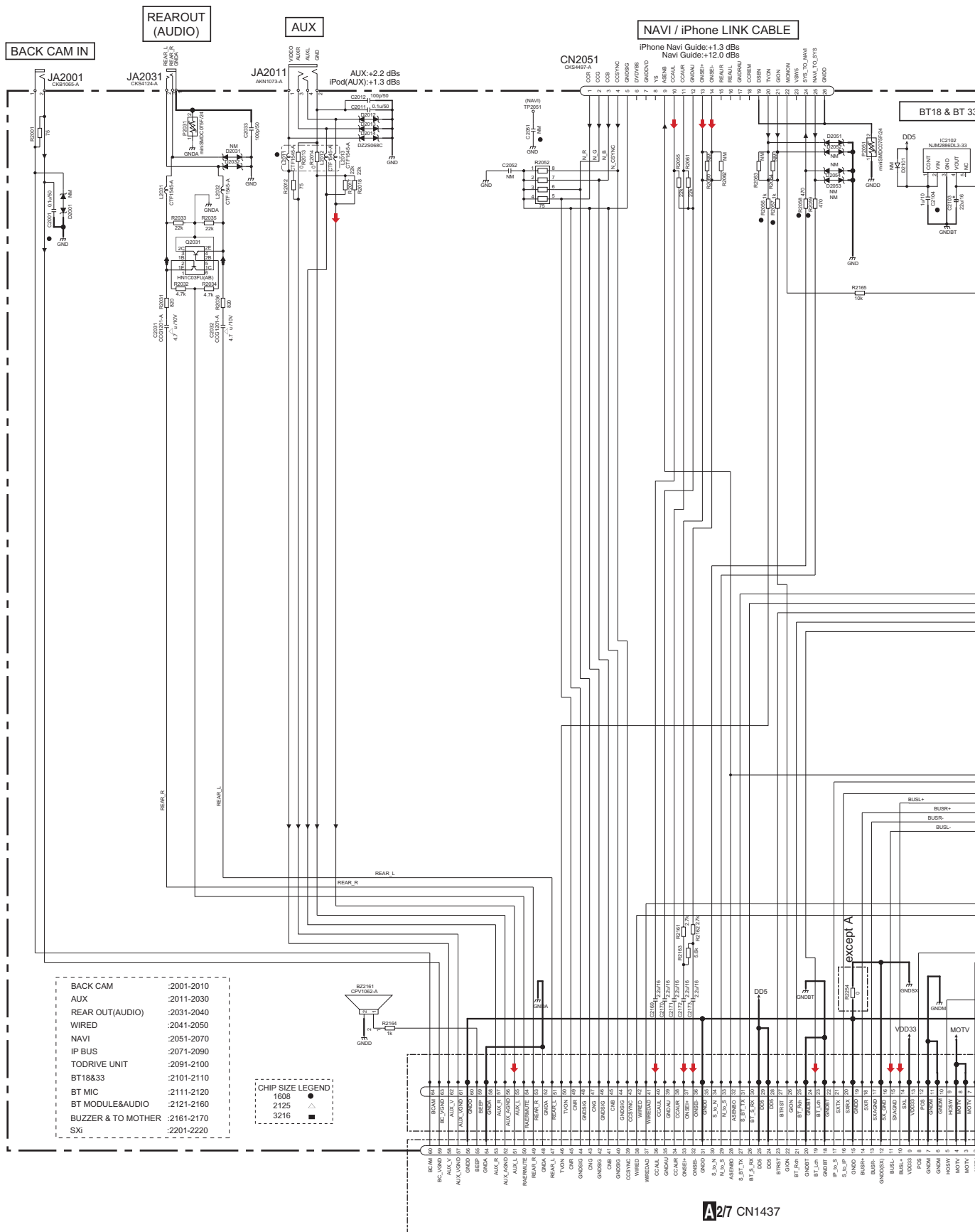
ipod CP :401 - 420
DAC :421 - 450
VENC :951 - 999
VDEC :471 - 520
RGB ISO :521 - 570
HDMI/VDEC SW : IC1601,IC1602
R1601 -1615,R1617
C1601 - 1604

A77 TUNER AMP PCB (VDEC/VENC PART)



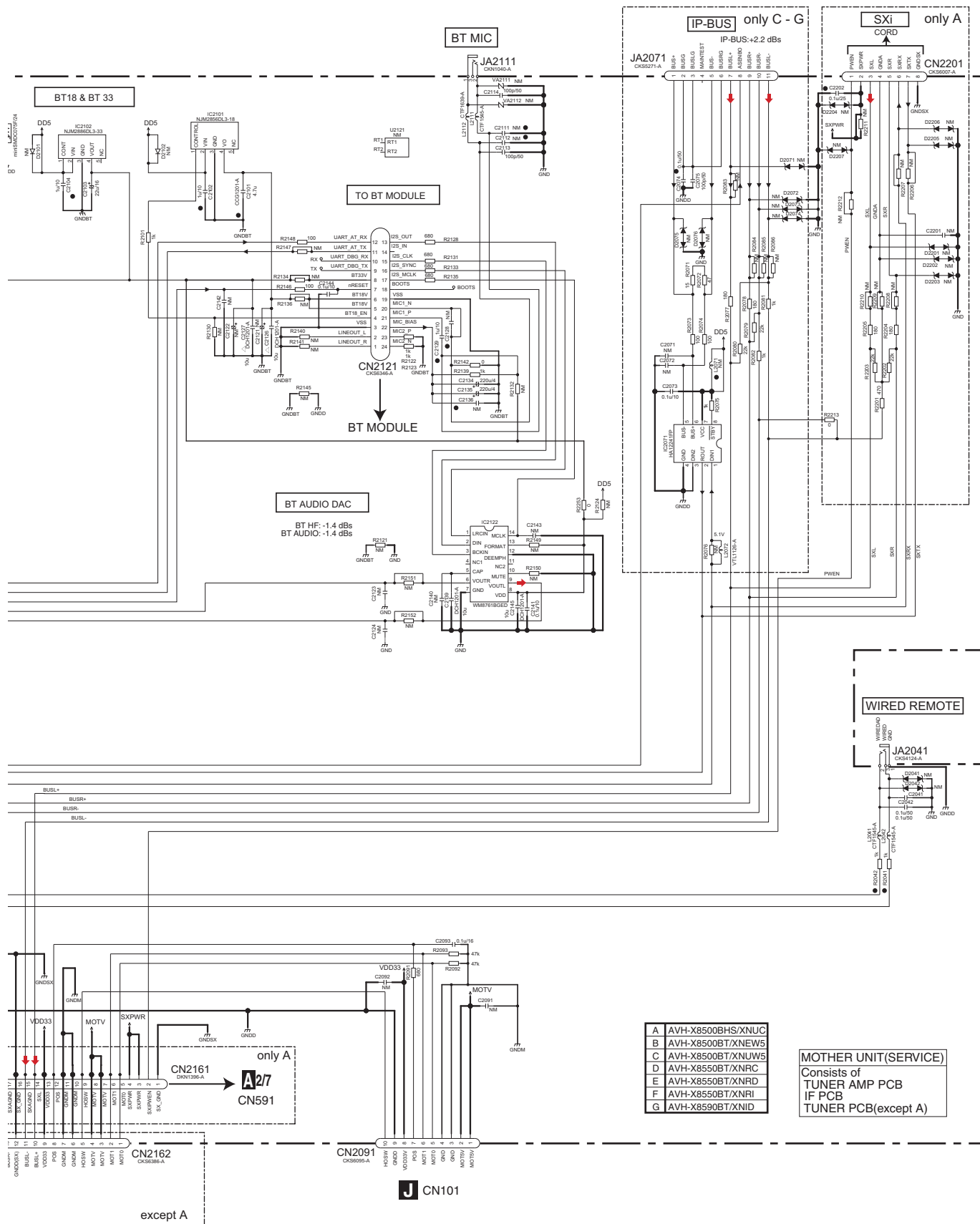
10.8 IF PCB (GUIDE PAGE)

B-a



B-b

B IF PCB



A

B

C

D

E

F

B

[illegible][illegible]

4



A

B-b

B

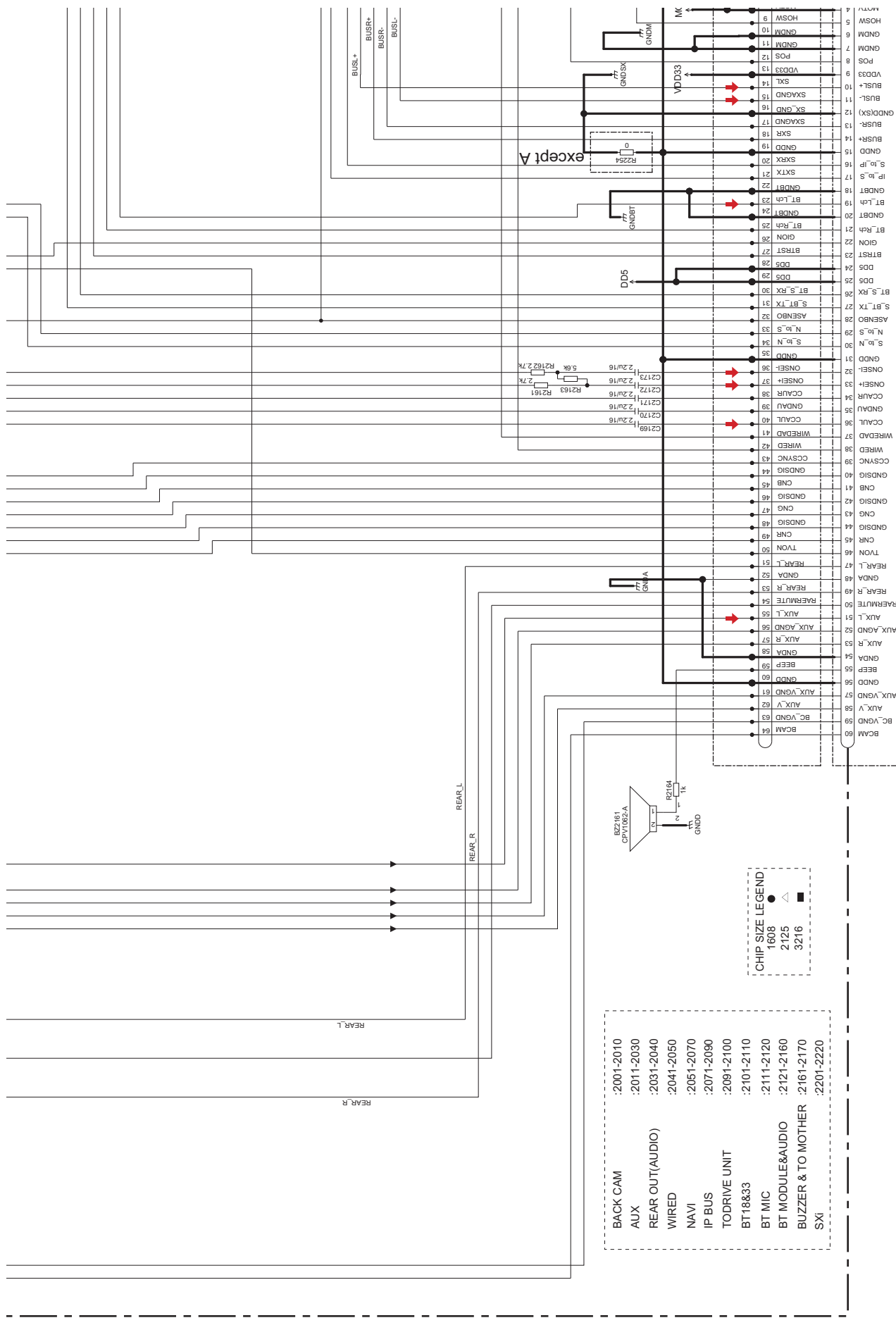
C

D

E

F

A27 CN1437



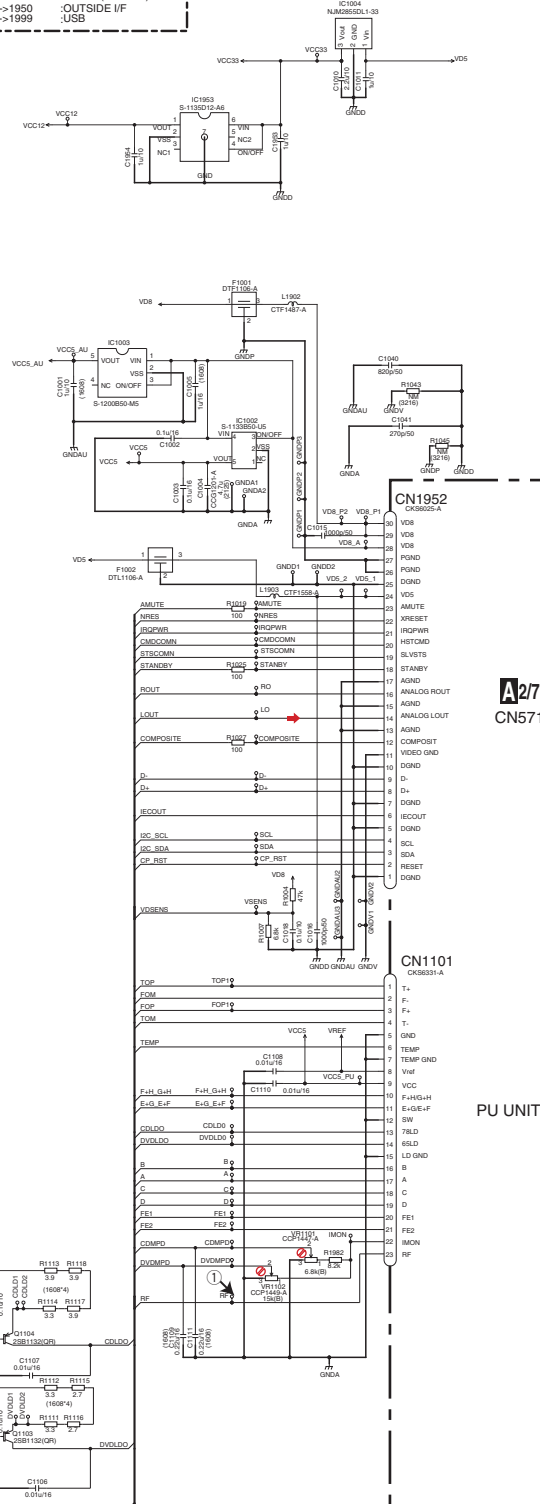
C-a

C-b

: The power supply is shown with the marked box.

C DVD CORE UNIT

1000->1049	:POWER SUPPLY
1100->1199	:PU
1200->1299	:ACT+SPDL
1400->1449	:FLASH
1480->1499	:SDRAM
1500->1599	:DV5(SYS)
1600->1669	:DV5(FE)
1670->1699	:DV5(BE)
1700->1749	:VIDEO
1800->1849	:AUDIO (ANALOG)
1850->1899	:AUDIO (DIGITAL)
1900->1950	:OUTSIDE I/F
1950->1999	:USB



A27
CN571

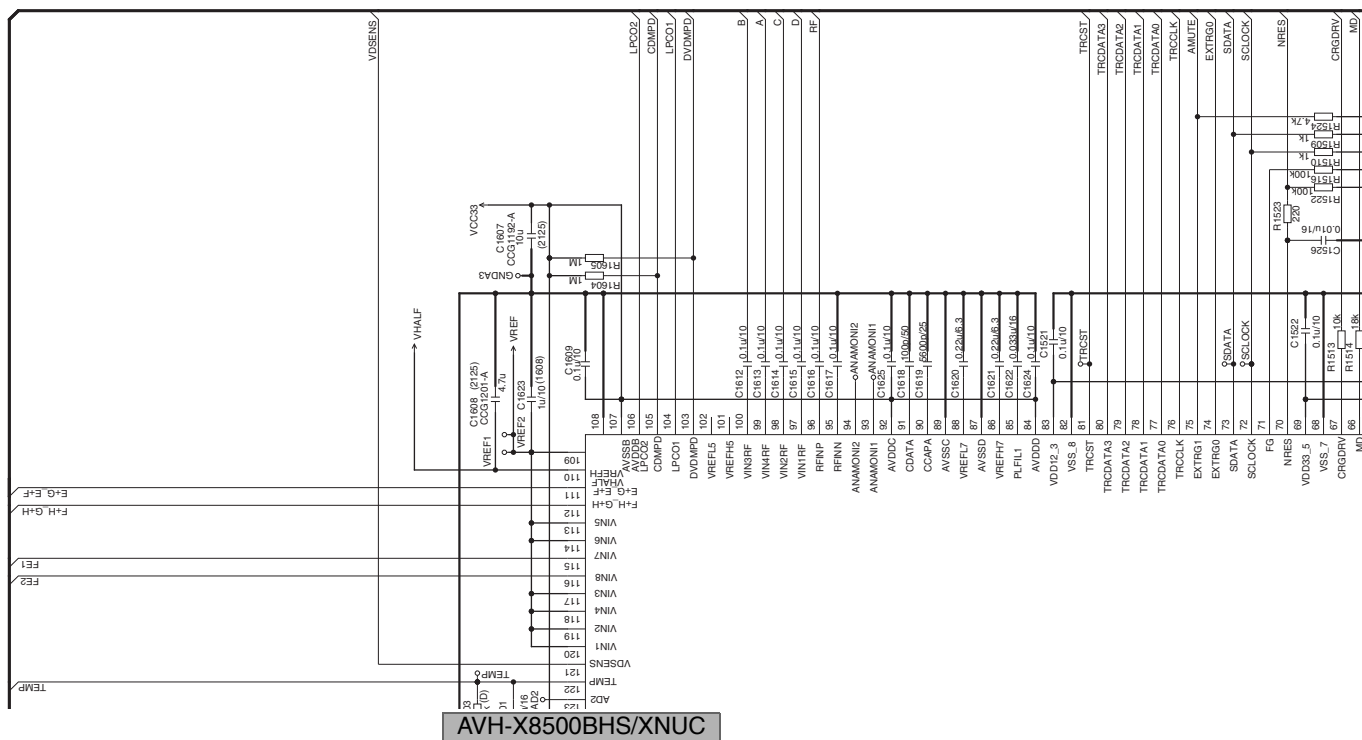
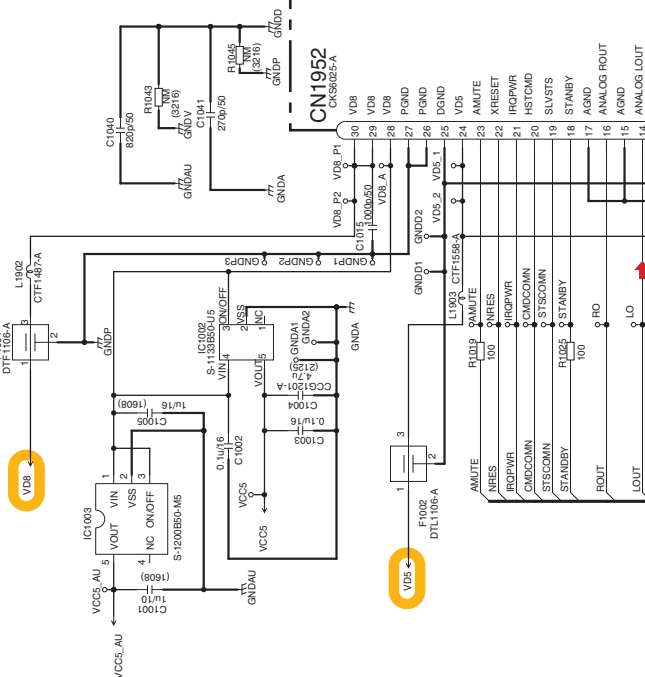
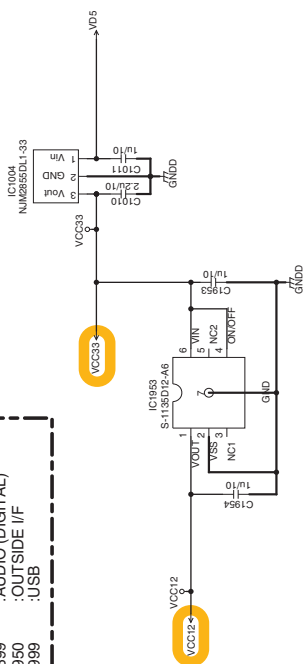
PU UNIT (DP11)

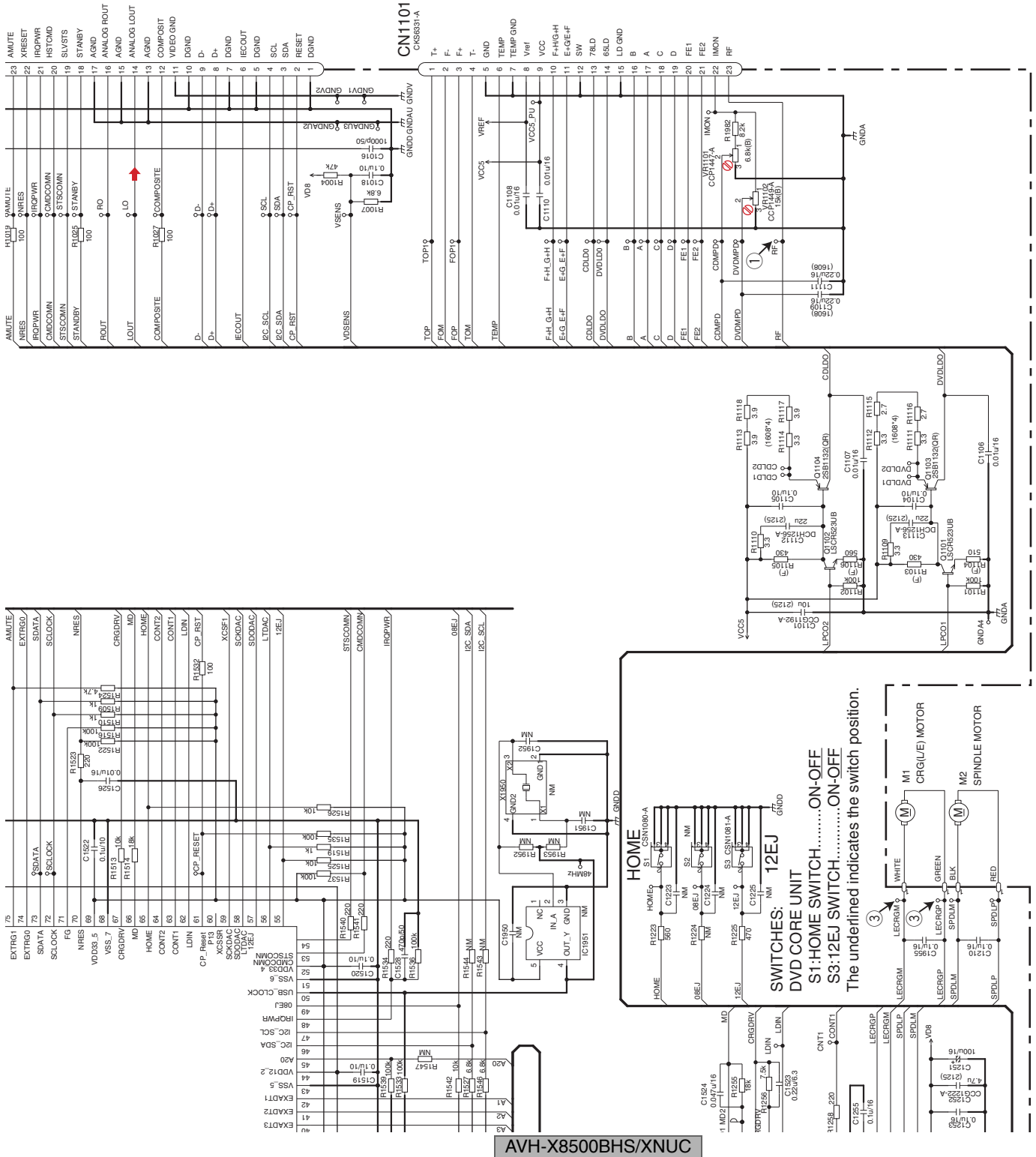
SWITCHES: 12EJ
DVD CORE UNIT
S1:HOME SWITCH.....ON-OFF
S3:12EJ SWITCH.....ON-OFF
The underlined indicates the switch position.

0

: The power supply is shown with the marked box.

1000->1049	:POWER SUPPLY
1100->1199	:PU
1200->1299	:ACT+SPDL
1400->1449	:FLASH
1480->1499	:SDRAM
1500->1599	:DV5(SYS)
1600->1669	:DV5(FE)
1670->1699	:DV5(BE)
1700->1749	:VIDEO
1800->1849	:AUDIO (ANALOG)
1850->1899	:AUDIO (DIGITAL)
1900->1950	:OUTSIDE I/F
1950->1999	:USB

A2/7
CN571



C-a C-b

C-b

A

B

C

D

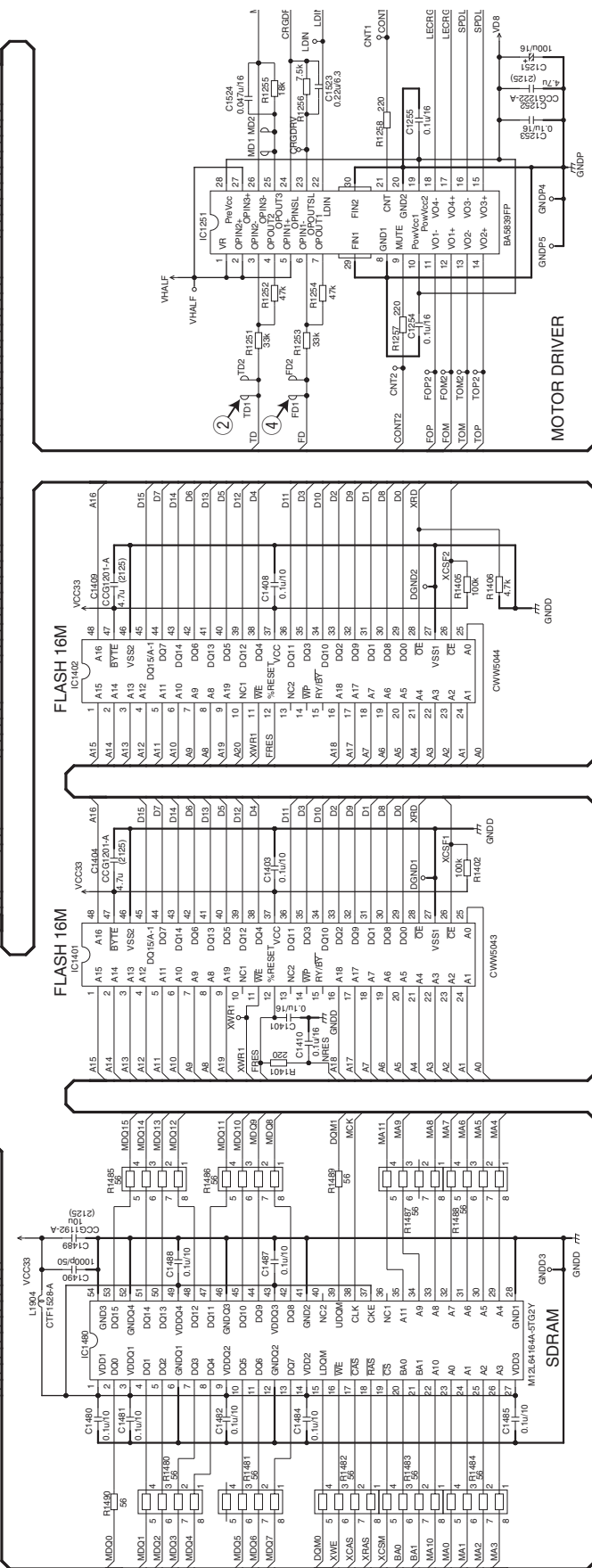
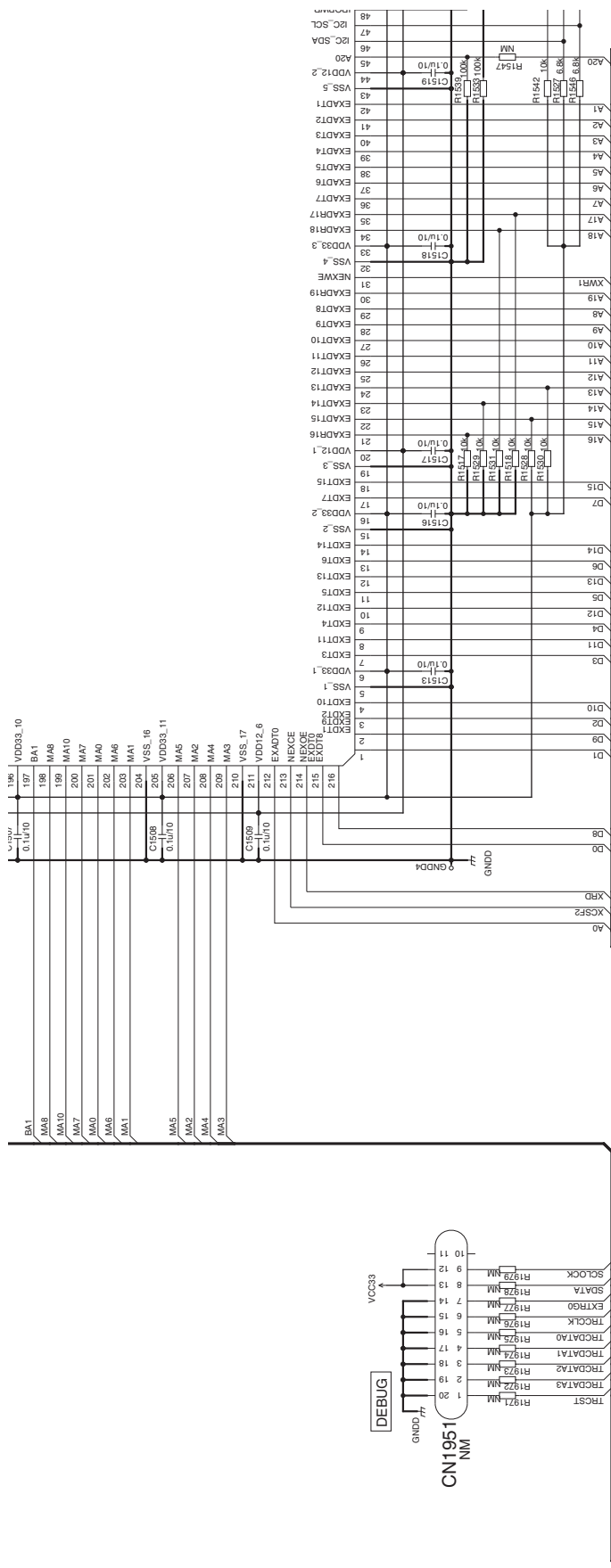
E

F

C-b

C-a

C-a



C-b

A

B

C

D

E

F

10.10 TUNER PCB

A

B

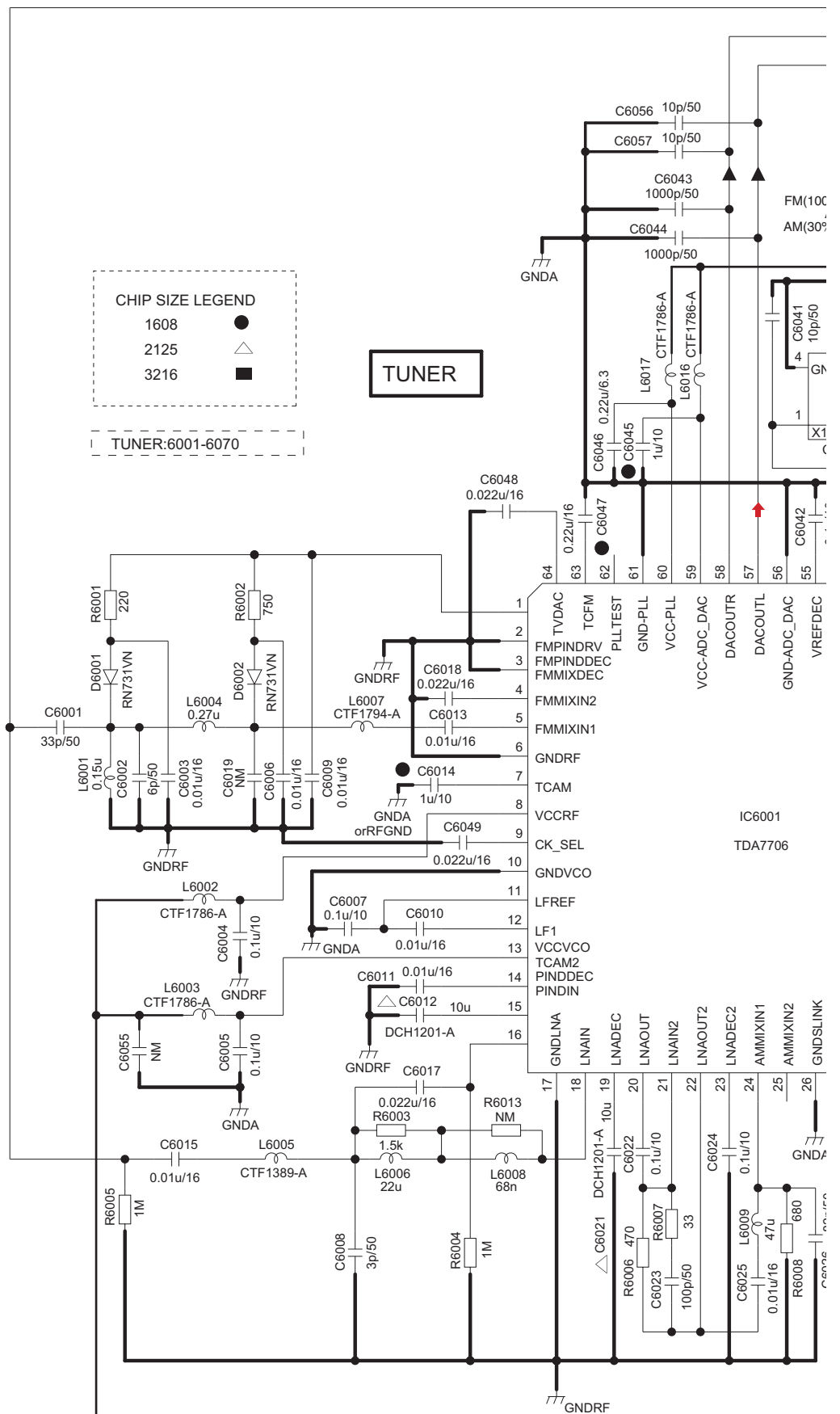
C

D

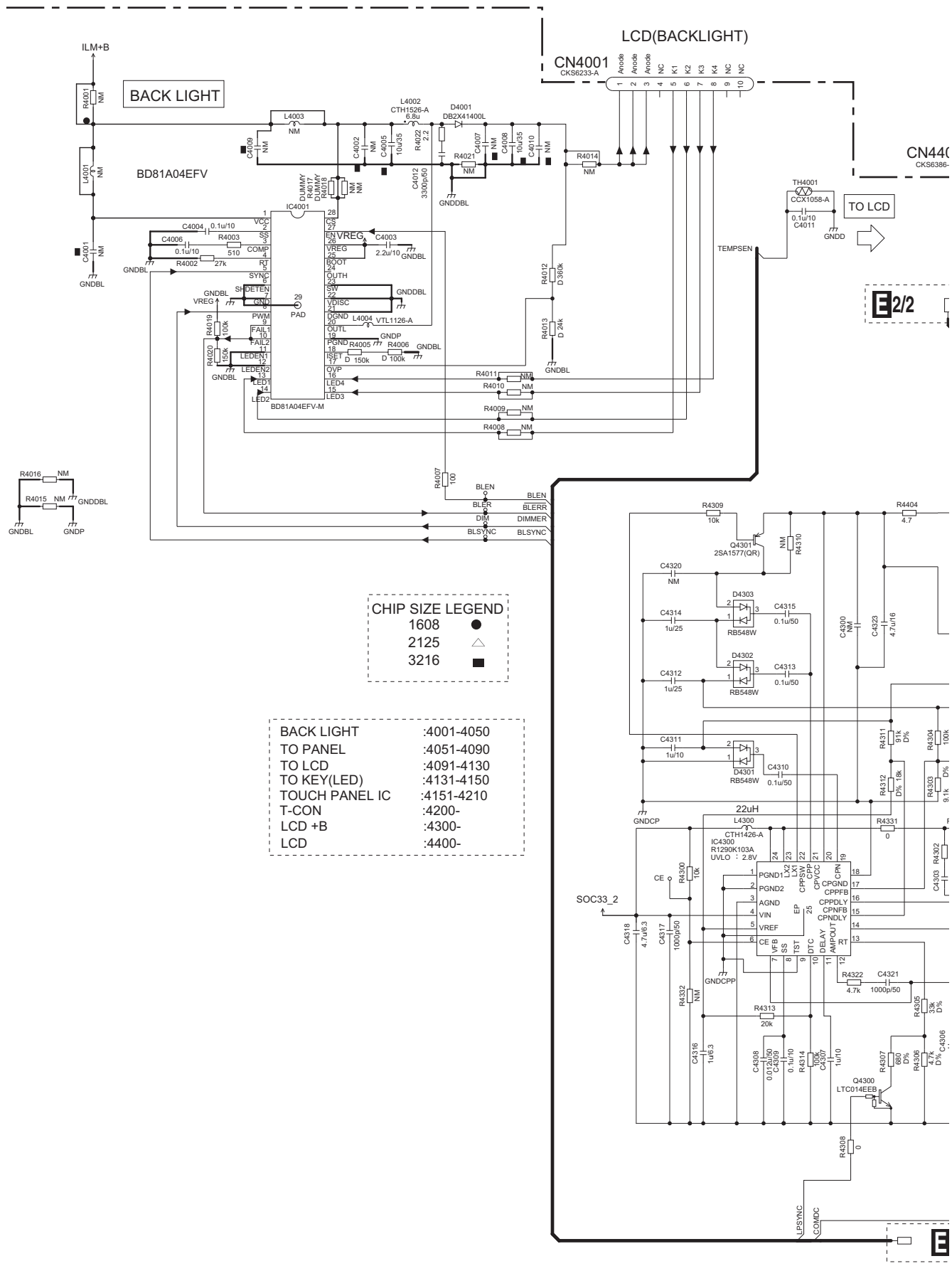
E

F

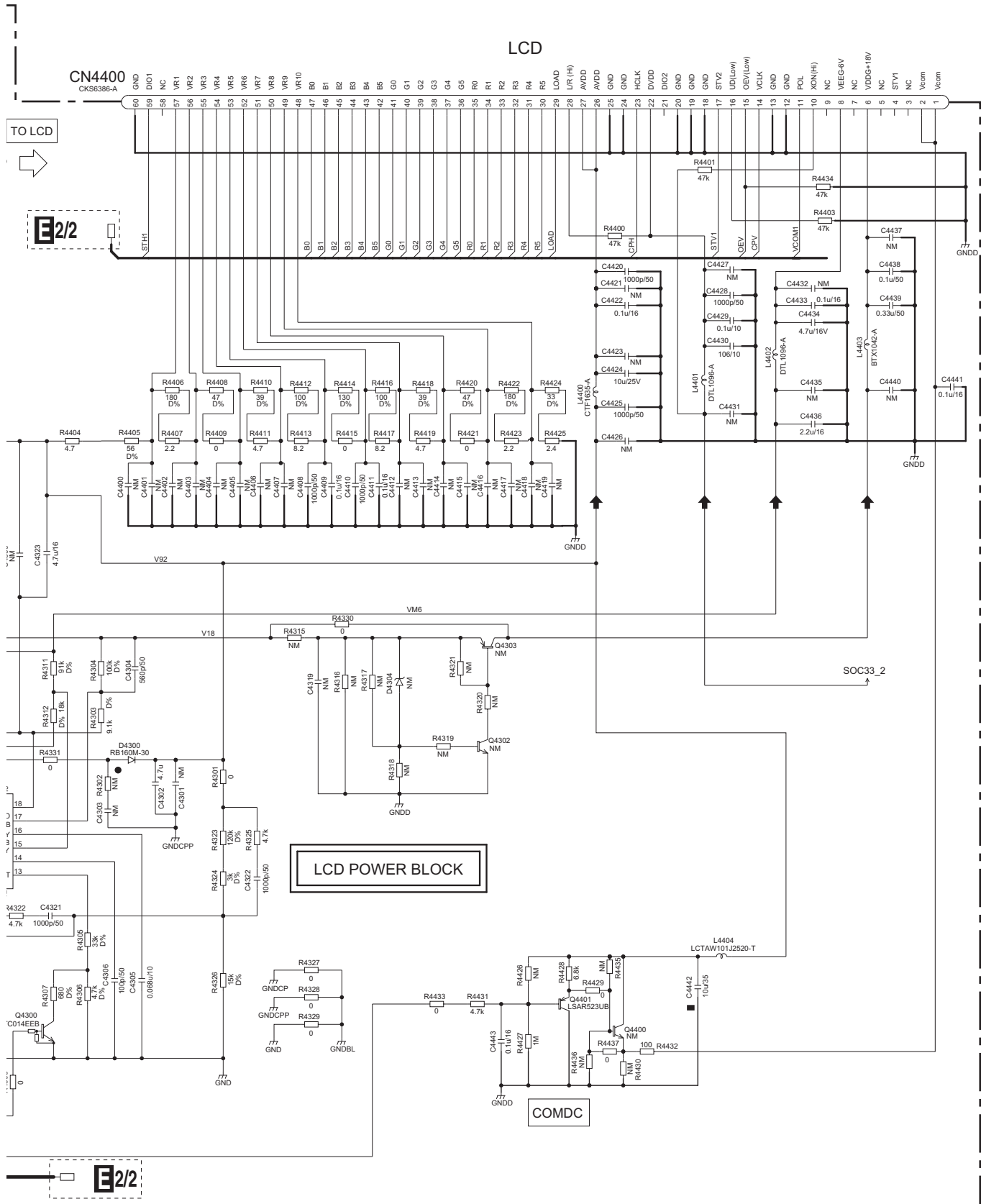
D



10.11 MONITOR UNIT (SERVICE) (MONITOR POWER SUPPLY PART)



E1/2 MONITOR UNIT(SERVICE) (MONITOR POWER SUPPLY PART)



10.12 MONITOR UNIT (SERVICE) (I/O PART)

A

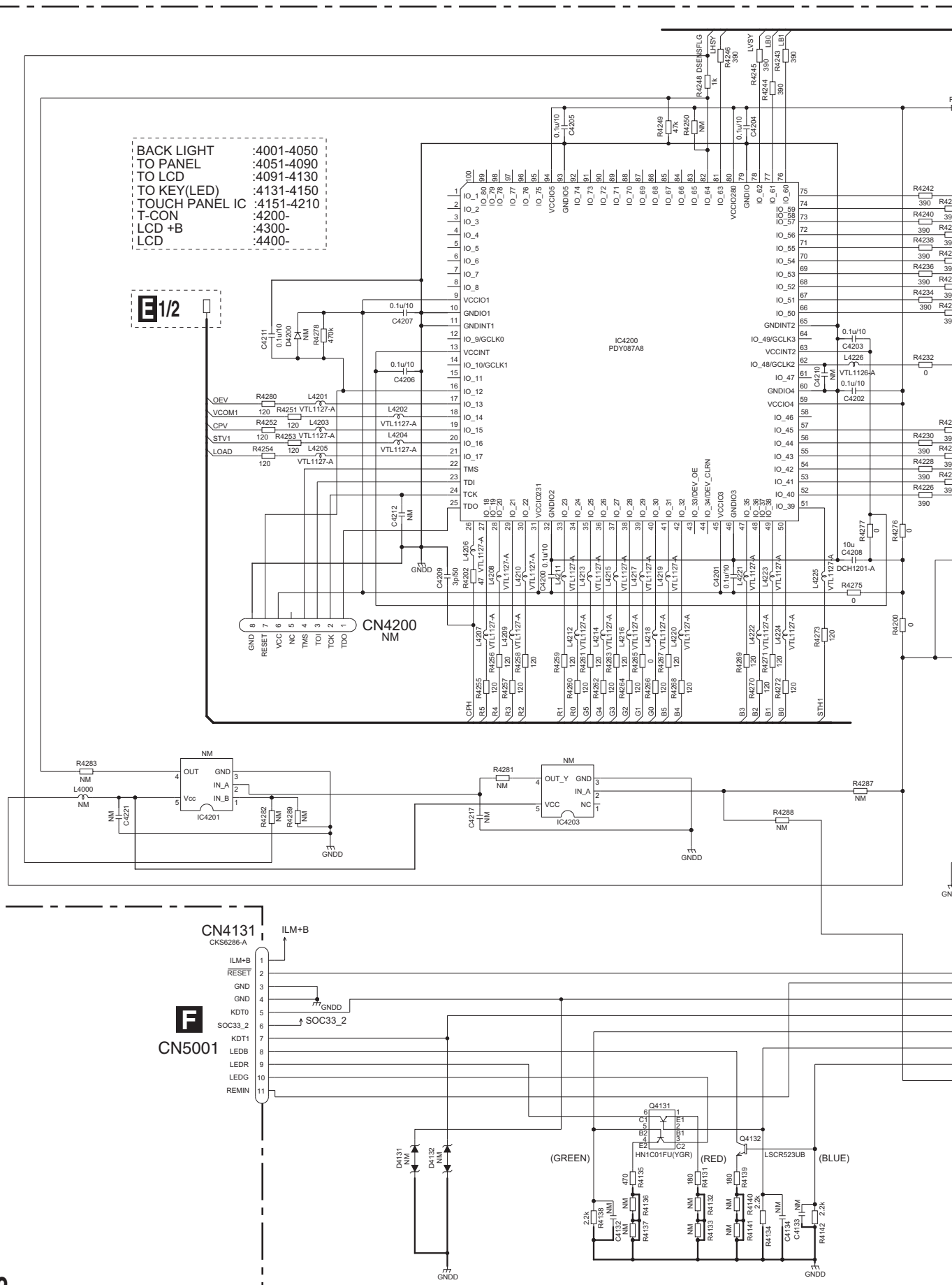
B

C

D

E

F





10.13 KEY UNIT (SERVICE)

CN5001
CKS6291-A

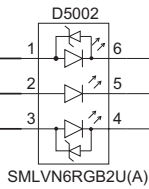
REMIN 11
LEDG 10
LEDR 9
LEDB 8
KDT1 7
SOC33_2 6
KDT0 5
GNDD 4
GNDD 3
RESET 2
ILM+B 1

E2/2
CN4131

SOC33_2

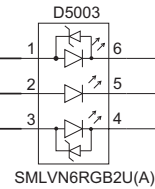
GNDD

ILM+B



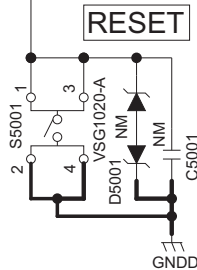
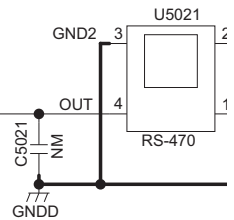
C5002 NM
C5003 NM
C5004 NM

C5005 NM
C5006 NM
C5007 NM

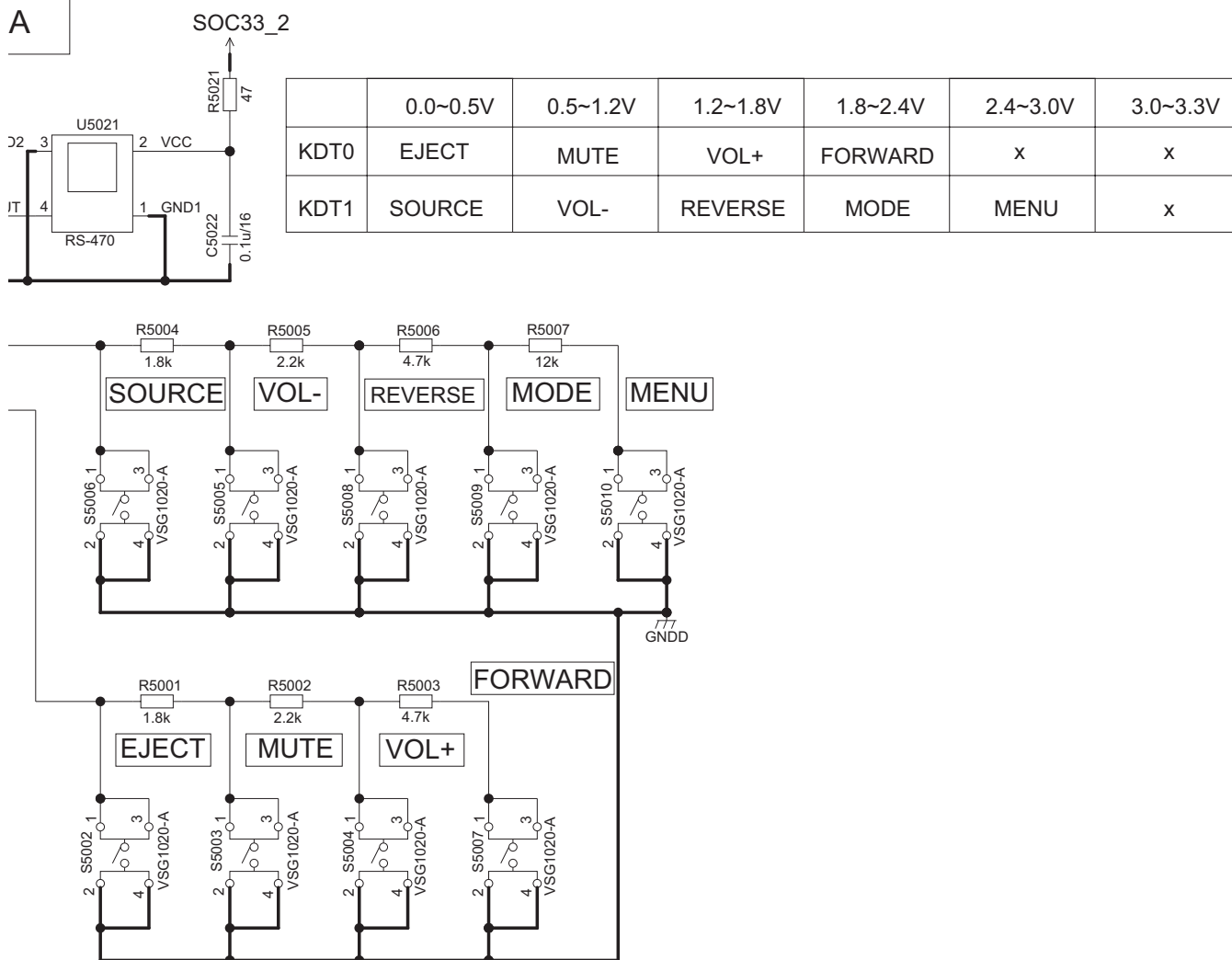


ILM&BOTTOM :5001-5020
REM :5021-

IrDA



F KEY UNIT(SERVICE)



10.14 CASE UNIT (SERVICE)

A

A27
CN70

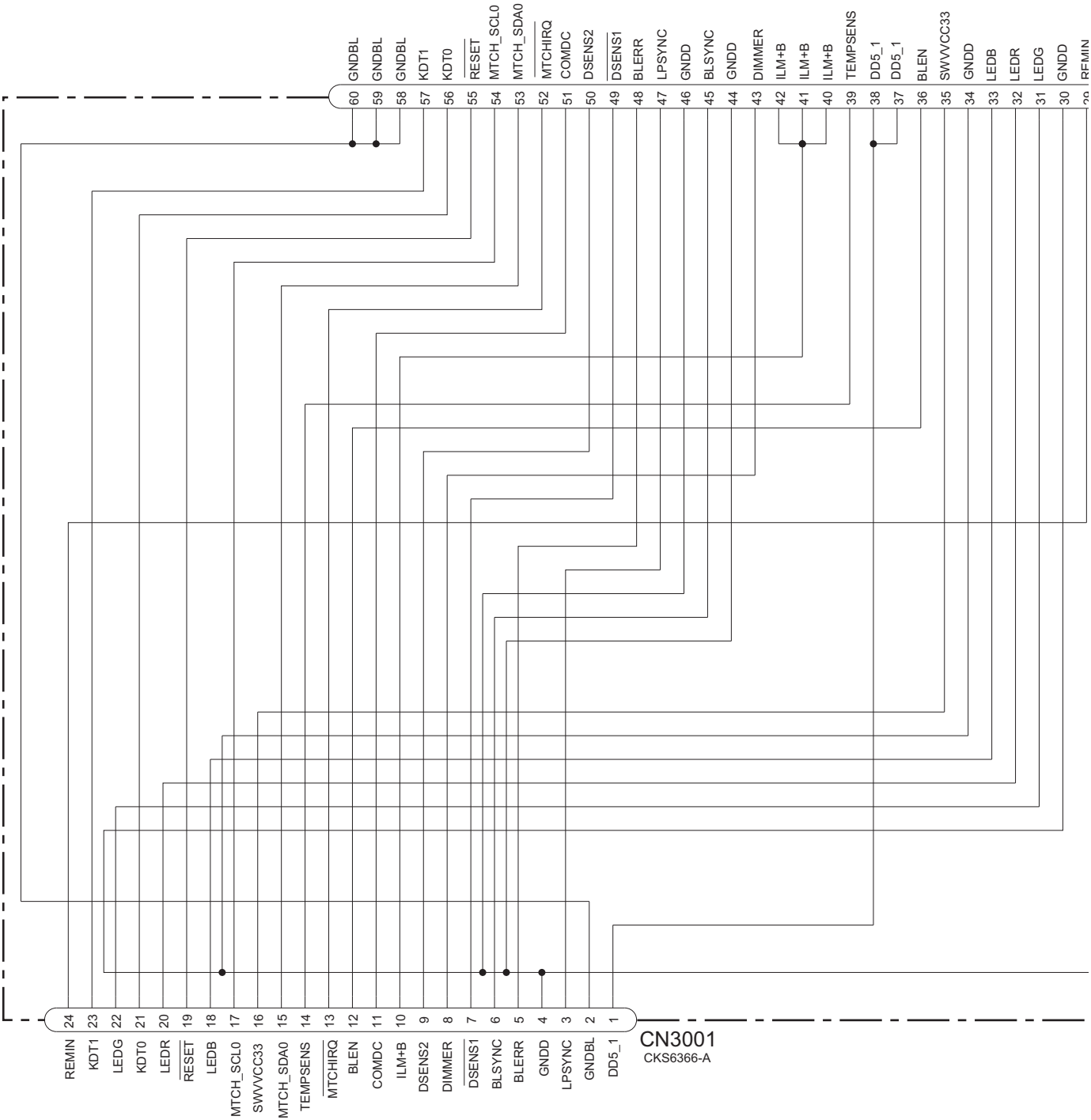
B

C

D

E

F

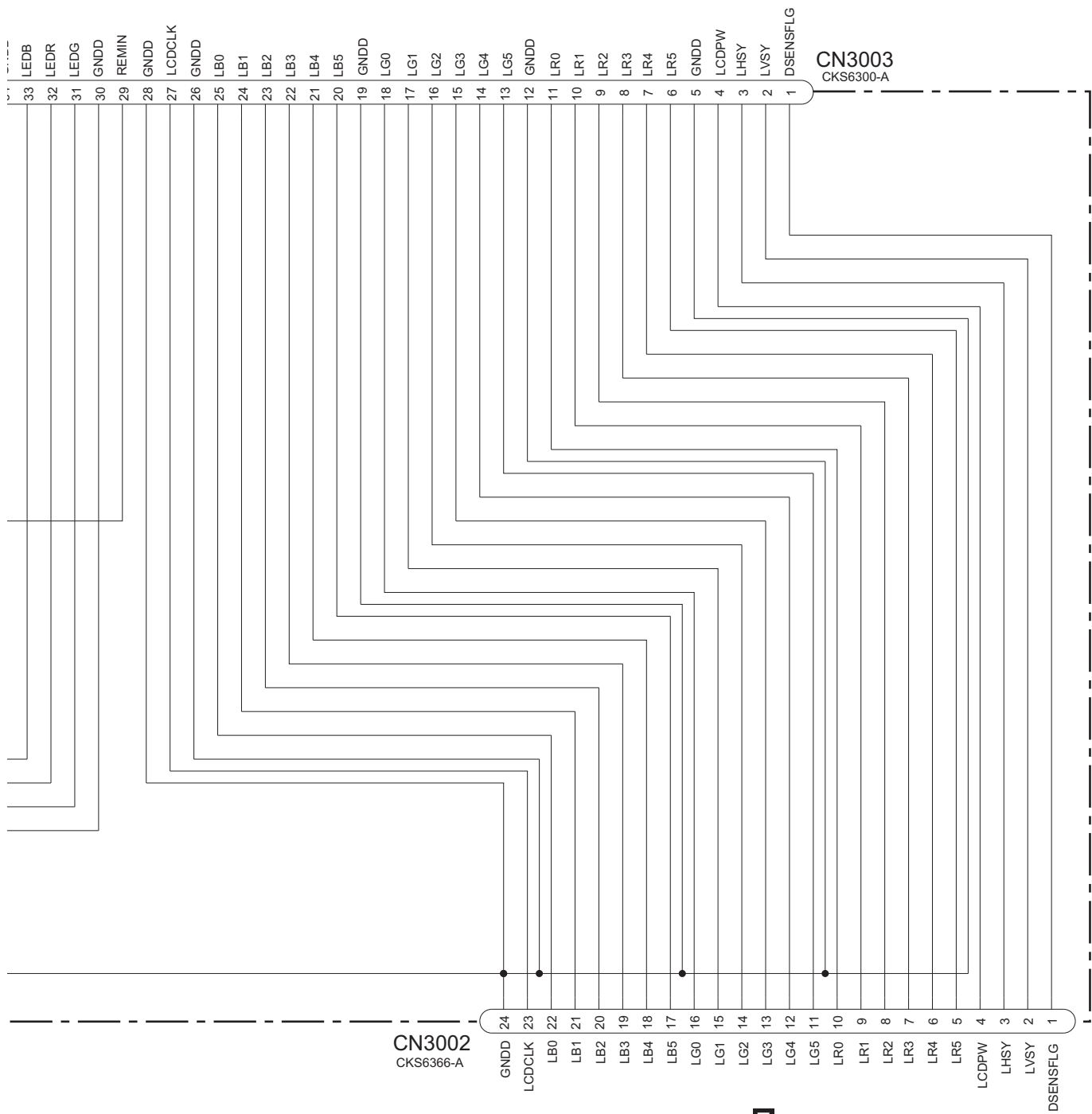


E2/2

CN4051

CN3001
CKS6366-A

A2/7
CN702



E2/2
CN4052

10.15 SW UNIT (SERVICE)

A

B

C

D

E

F

H SW UNIT(SERVICE)

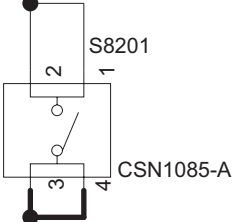
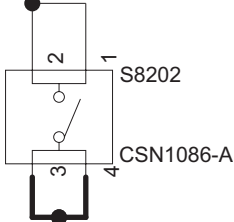
CN8201
DKN1220-A

1 DSENS2
2 DSENS1
3 GNDD

E2/2
CN4053

LOCK SW

OFF SENS SW



GNDD

H

■

5

■

6

■

7

■

8

■

A

■

B

■

C

■

D

■

E

■

F

■

5

■

6

■

7

■

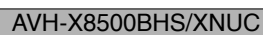
8

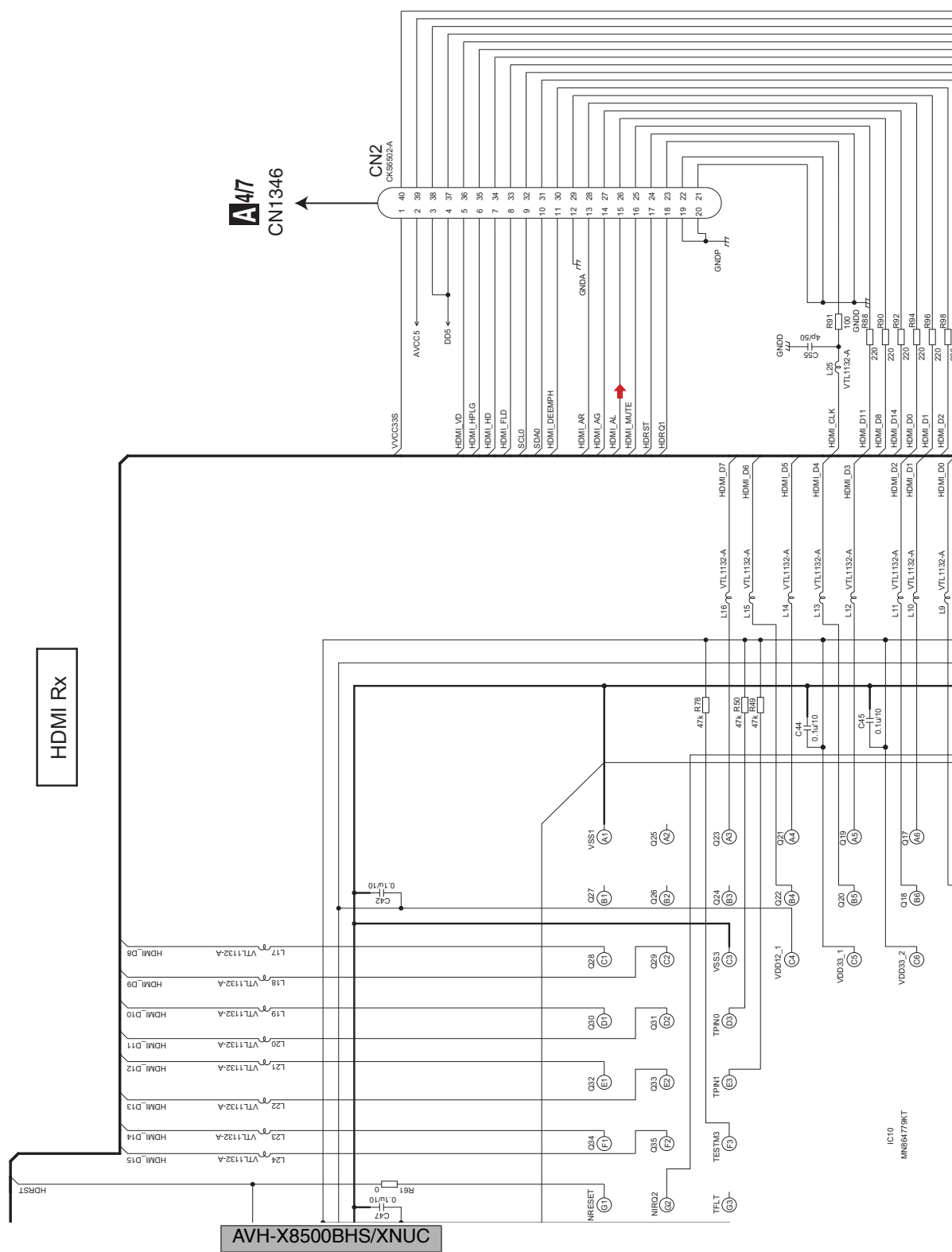
■

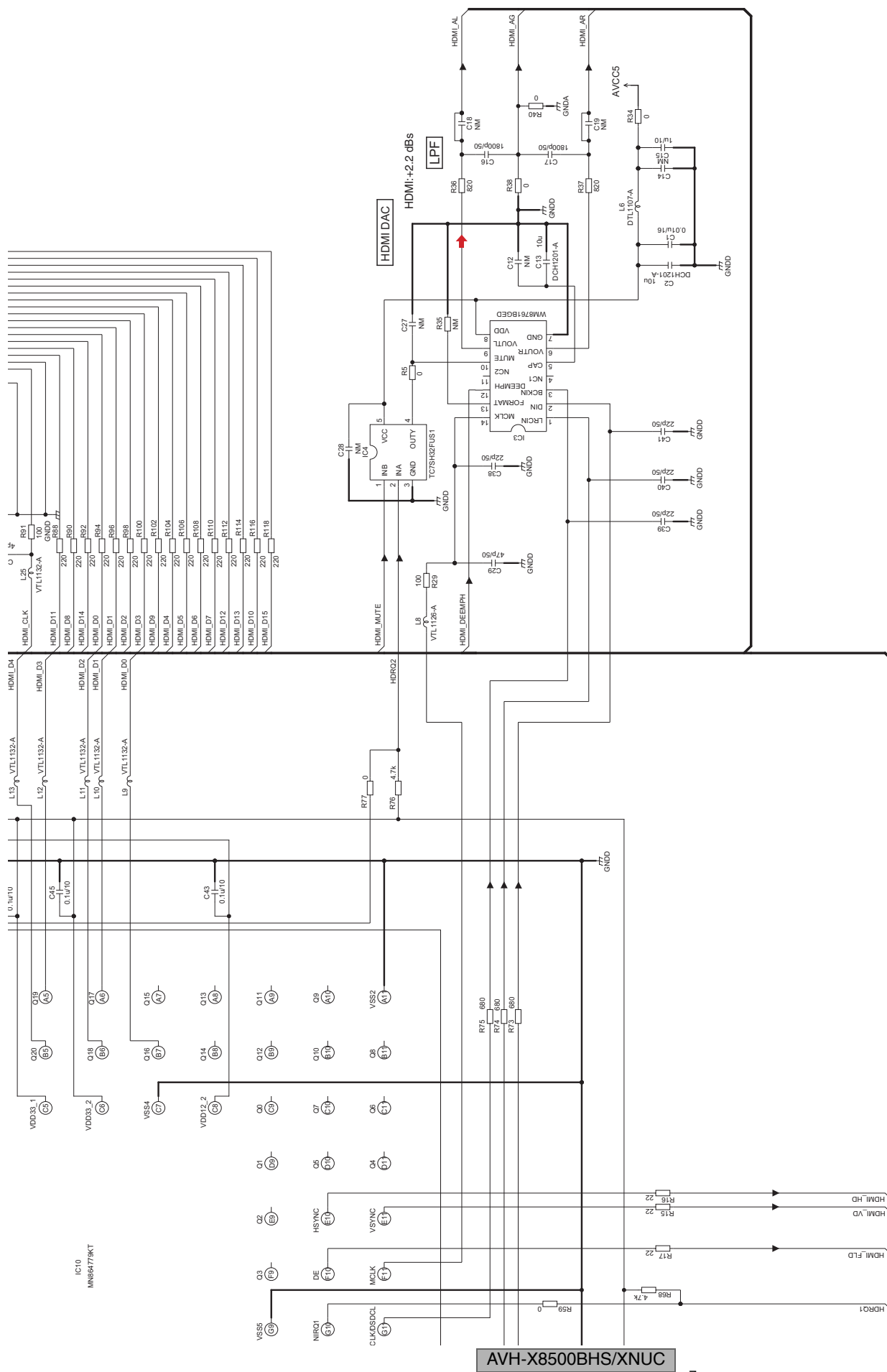
I-a



HDMI UNIT







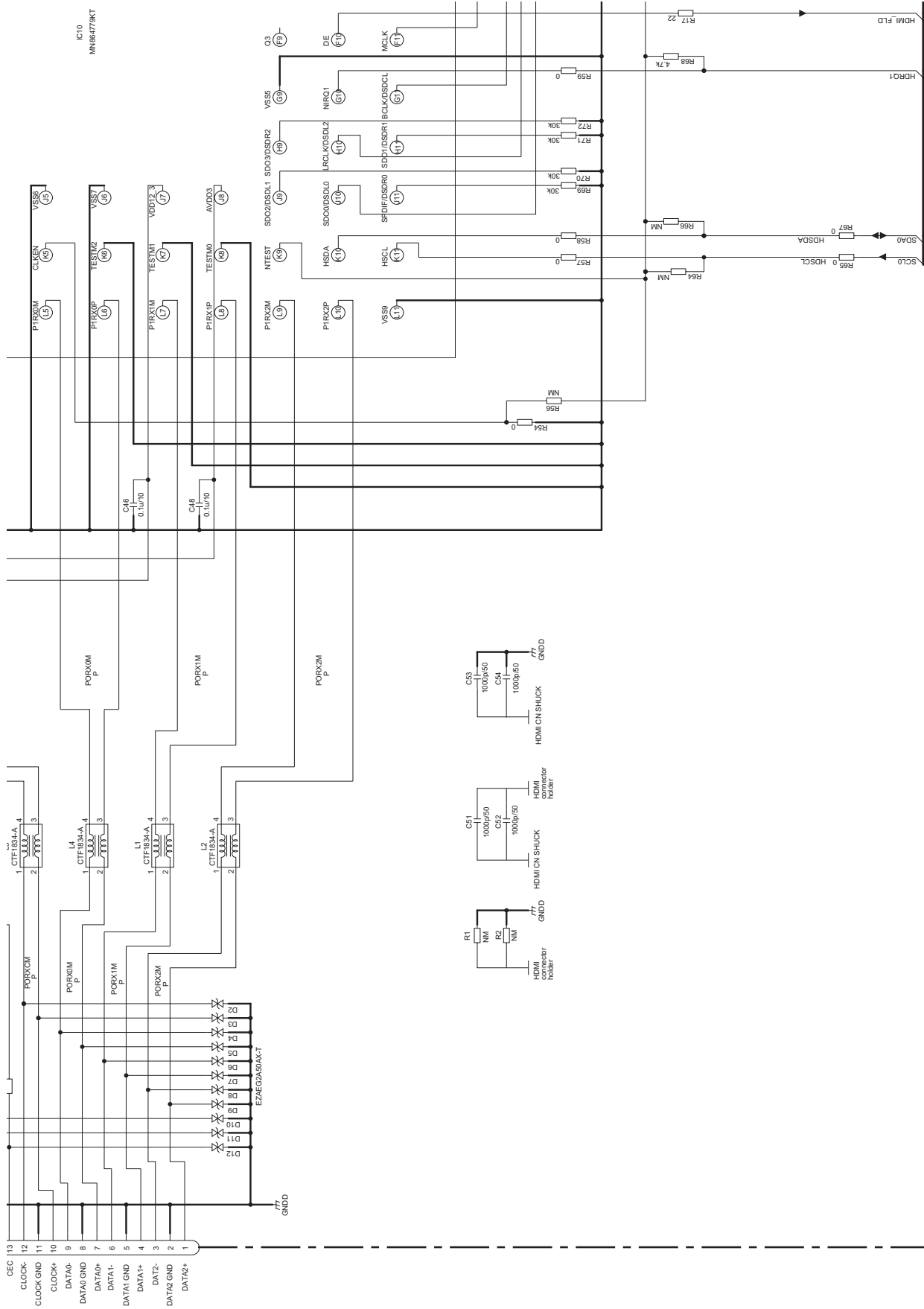
AVH-X8500BHS/XNUC

I-a I-b

I-b

I-a



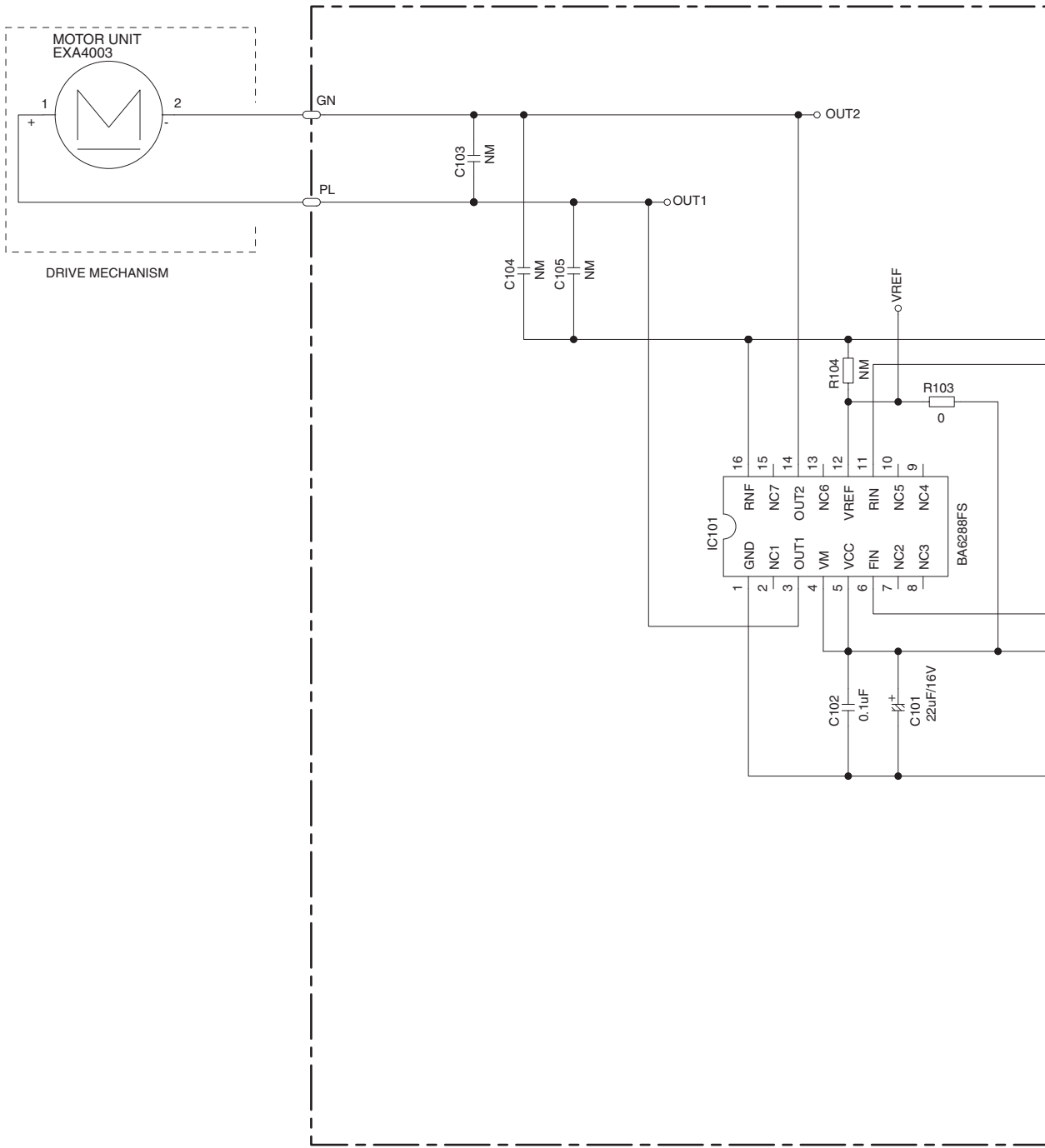


I-b

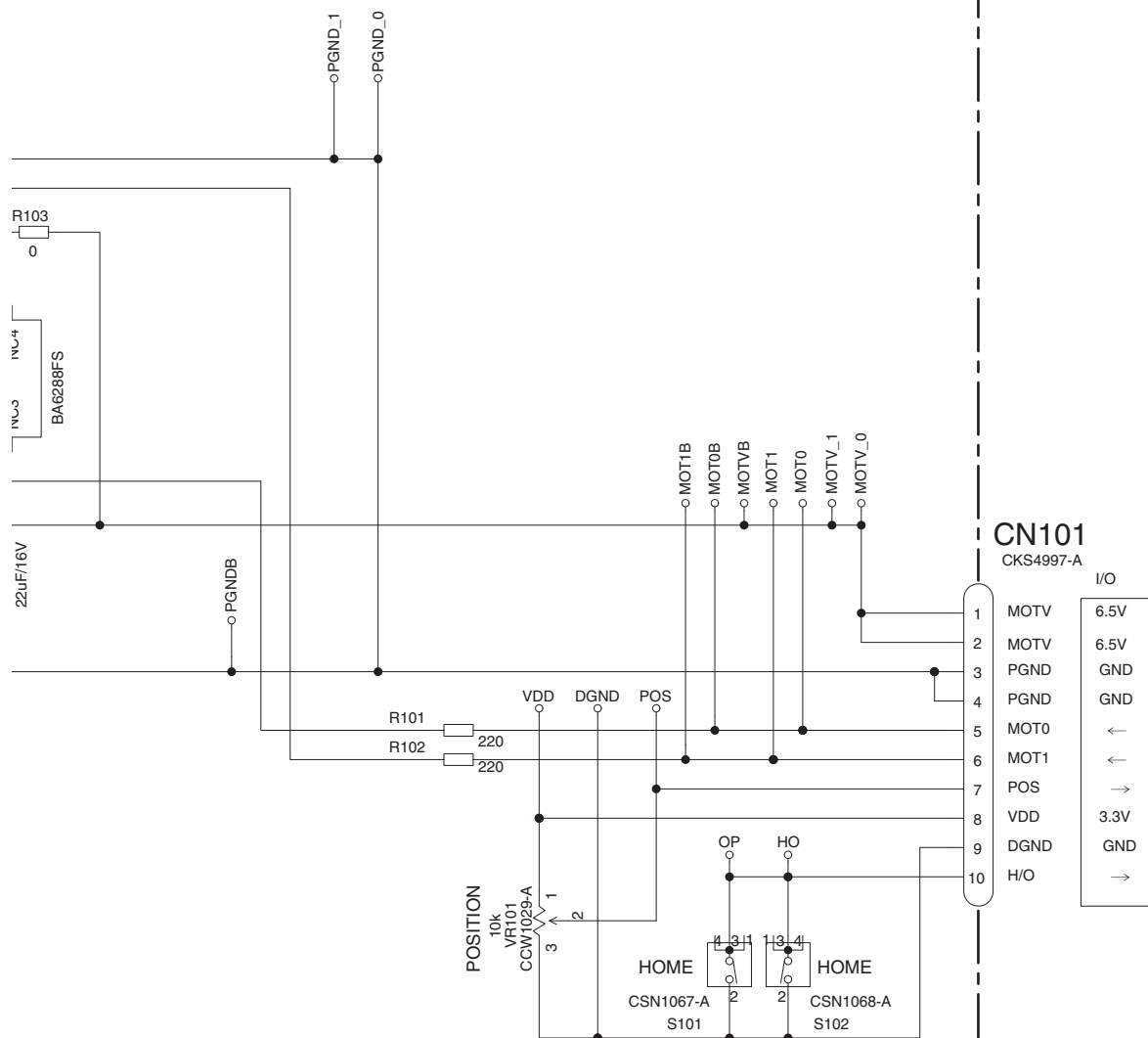
I-a I-b

I-a

10.17 PCB UNIT (SERVICE)



J PCB UNIT(SERVICE)



10.18 WAVEFORMS

DVD Core Unit

Note:1. The encircled number denote measuring points in the circuit diagram.

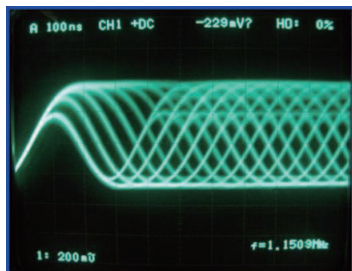
2. Reference voltage: 1.65 V(TD1,FD1)(=VHALF)

2.2 V(RF)(=VREF)

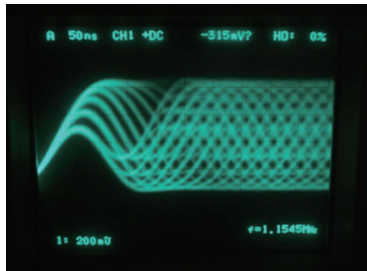
In the waveform, it is seeing on the GND standard.

Offset of 1.65 V or 2.2 V is put in.

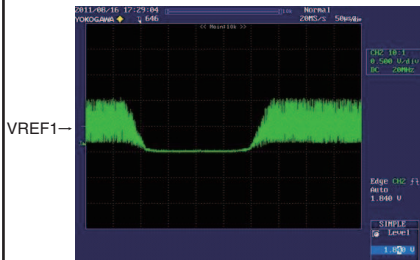
①RF 0.2 V/div 100 s/div
CDRF(x4CLV)



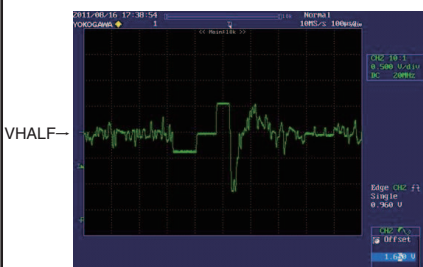
①RF 0.2 V/div 50 s/div
DVDRF(x1.5CLV)



①RF 0.5 V/div 50 us/div
DVDRF(BD1mm)



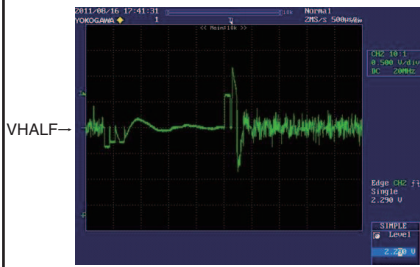
②TD1 0.5 V/div 100 us/div
Interval FWD(DVD)



②TD1 0.5 V/div 100 us/div
Interval REV(DVD)



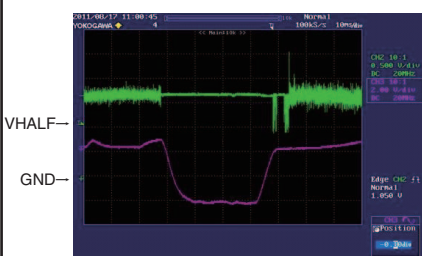
②TD1 0.5 V/div 500 us/div
Multi 32FWD(DVD)



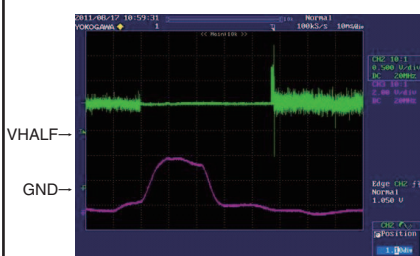
②TD1 0.5 V/div 500 us/div
Multi 32REV(DVD)



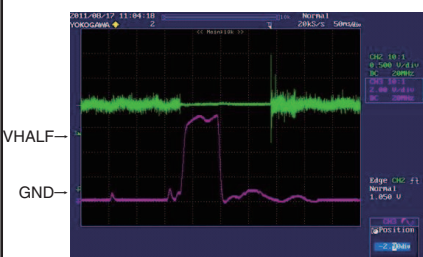
CH1 : ②TD1 0.5 V/div 10 ms/div
CH2 : ③LECRGM-LECRGP 2.0 V/div 10 ms/div
Traverse 1001FWD(short)(DVD)



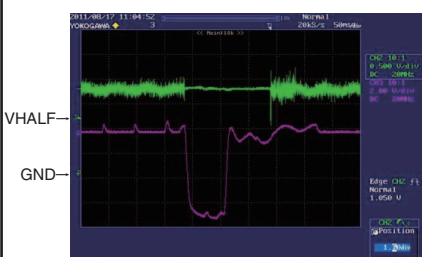
CH1 : ②TD1 0.5 V/div 10 ms/div
CH2 : ③LECRGM-LECRGP 2.0 V/div 10 ms/div
Traverse 1001REV(short)(DVD)



CH1 : ②TD1 0.5 V/div 50 ms/div
CH2 : ③LECRGM-LECRGP 2.0 V/div 50 ms/div
Traverse 5001FWD(long)(DVD)



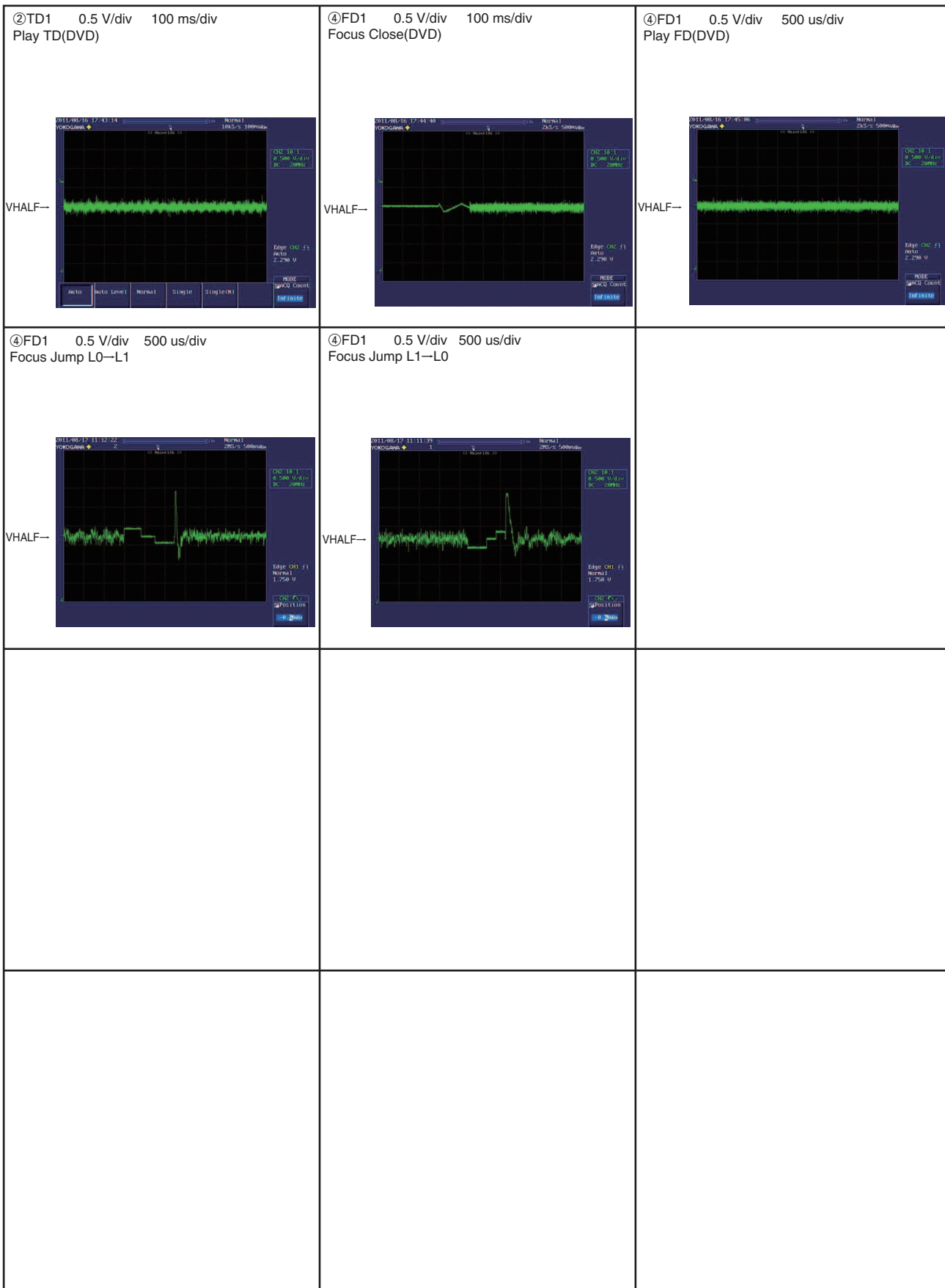
CH1 : ②TD1 0.5 V/div 50 ms/div
CH2 : ③LECRGM-LECRGP 2.0 V/div 50 ms/div
Traverse 5001REV(long)(DVD)



CH2 : ③LECRGM-LECRGP 2.0 V/div 200 ms/div
ID search Inside → Outside(DVD)



A



B

C

D

E

F

11. PCB CONNECTION DIAGRAM

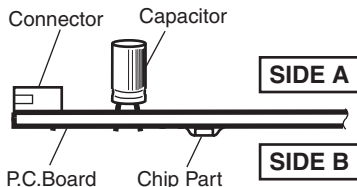
11.1 TUNER AMP PCB

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



⚠ P 1321 (A,70,82)	Fuse 6.3 A	CEK1262
⚠ P 1322 (A,22,12)	Fuse 1.25 A	CEK1382
⚠ P 1323 (A,21,23)	Fuse 3.0 A	CEK1386
⚠ P 1361 (A,96,25)	Fuse 4.0 A	CEK1387
⚠ P 1381 (A,111,78)	Fuse 3.0 A	CEK1386
⚠ P 1431 (A,100,14)	Fuse 2.5 A	CEK1385
⚠ P 1435 (A,113,28)	Fuse 0.5 A	CEK1379

A TUNER AMP PCB

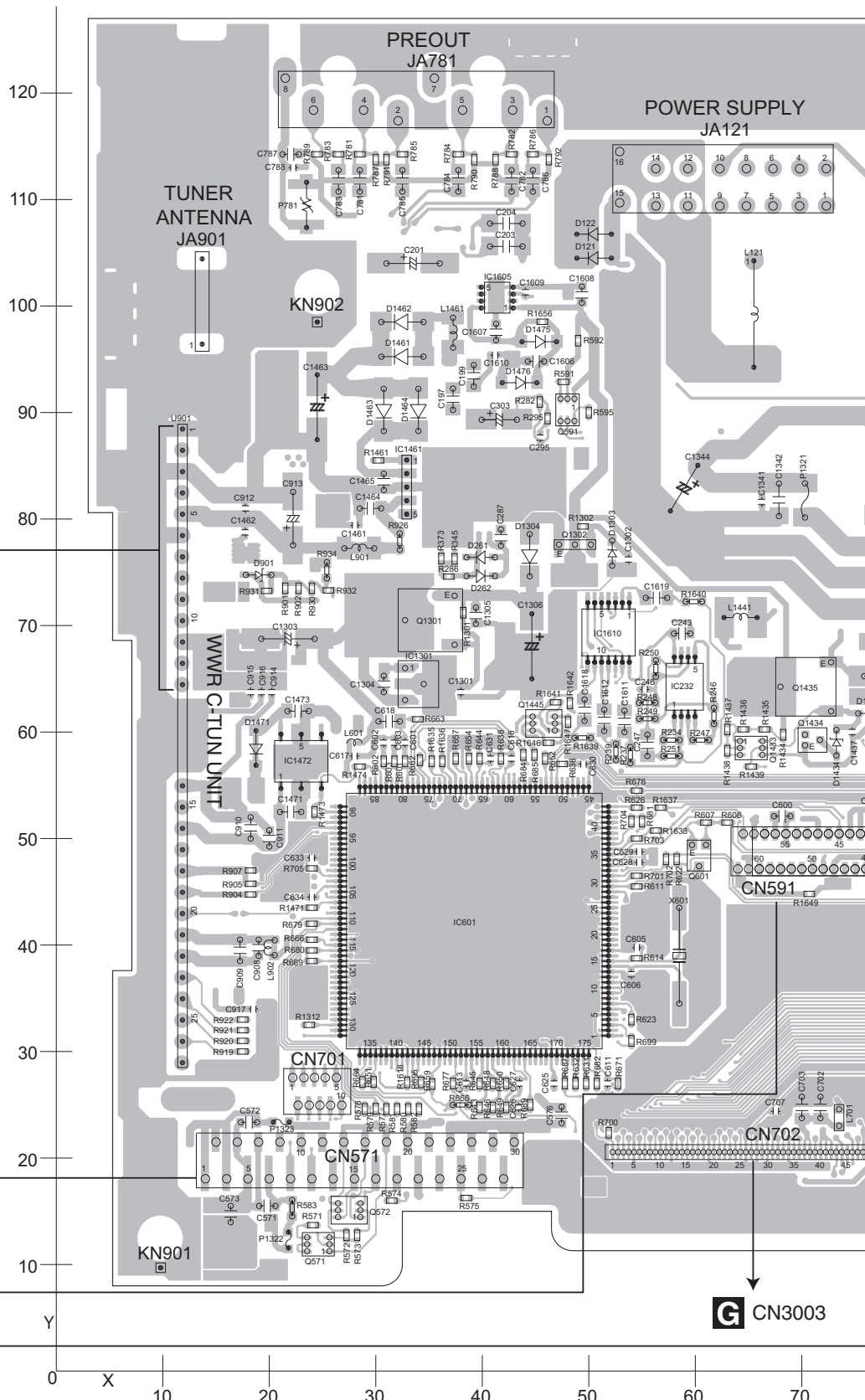
D CN6001

C CN1952

B CN2161

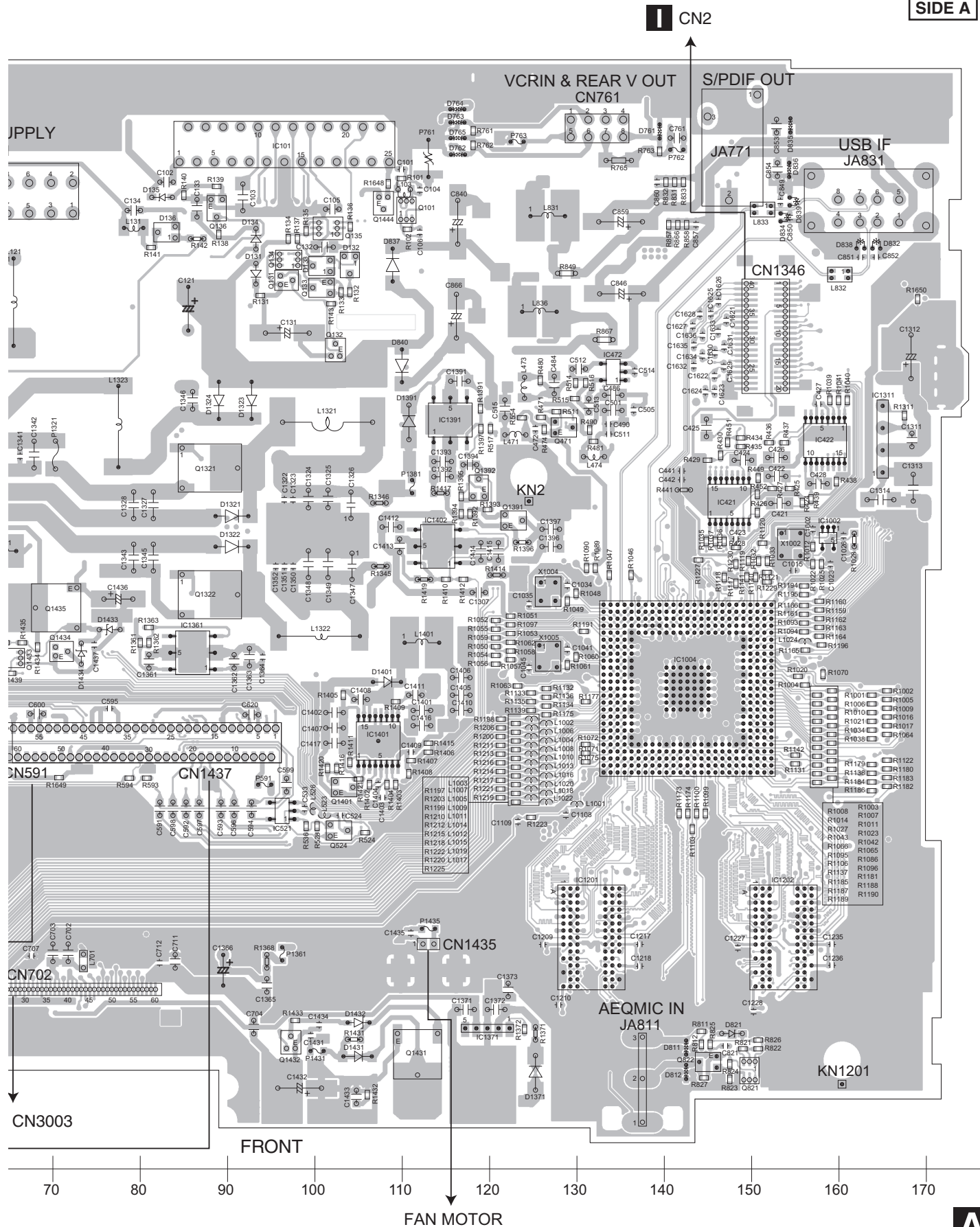
B CN2162

G CN3003



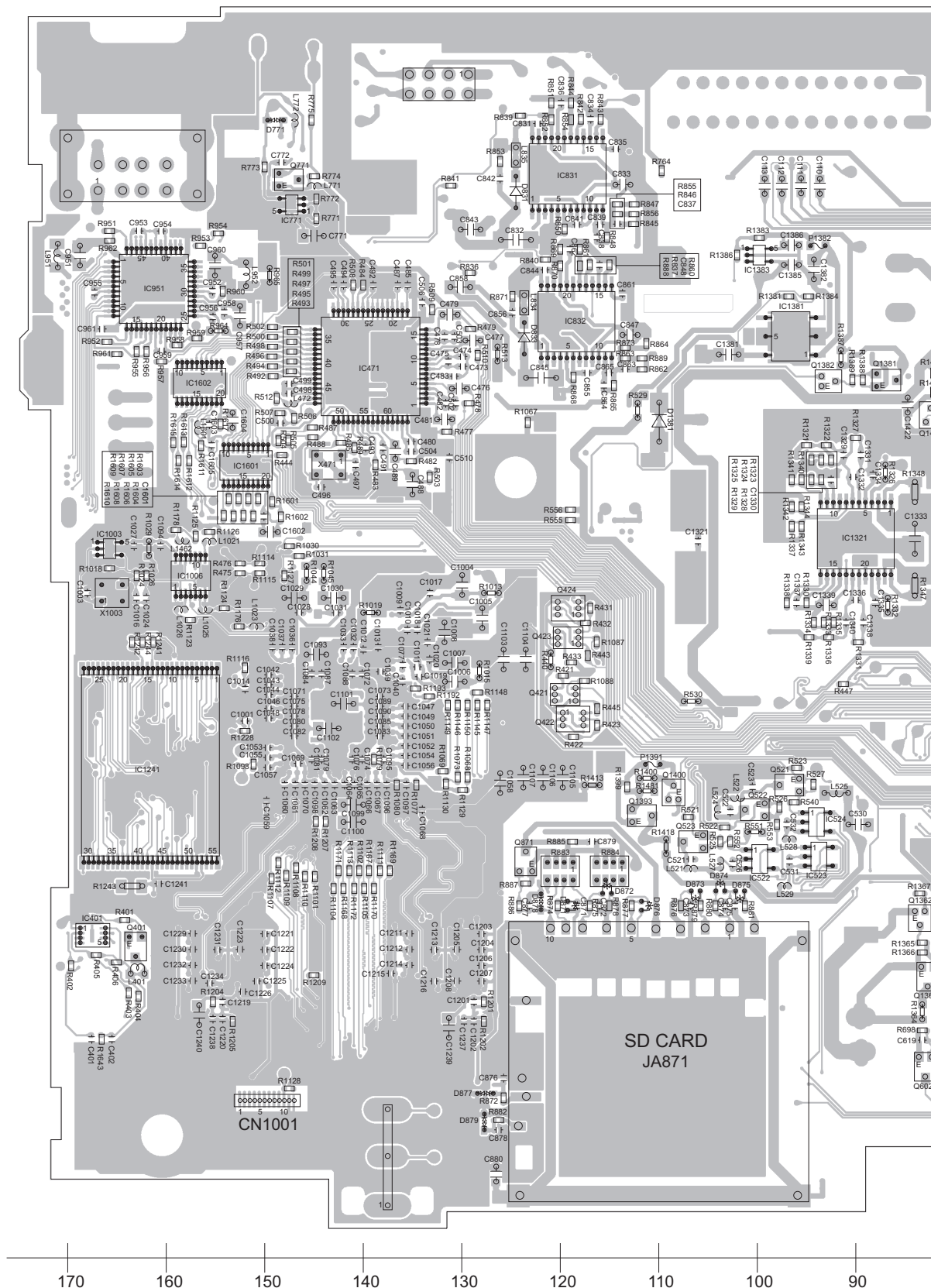
A

SIDE A



TUNER AMP PCB

⚠ P 1382 (B,94,103) Fuse 0.5
⚠ P 1391 (B,111,50) Fuse 1.0
⚠ P 1421 (B,78,97) Fuse 0.75
⚠ P 1441 (B,60,65) Fuse 0.5



A



C

D

E

F

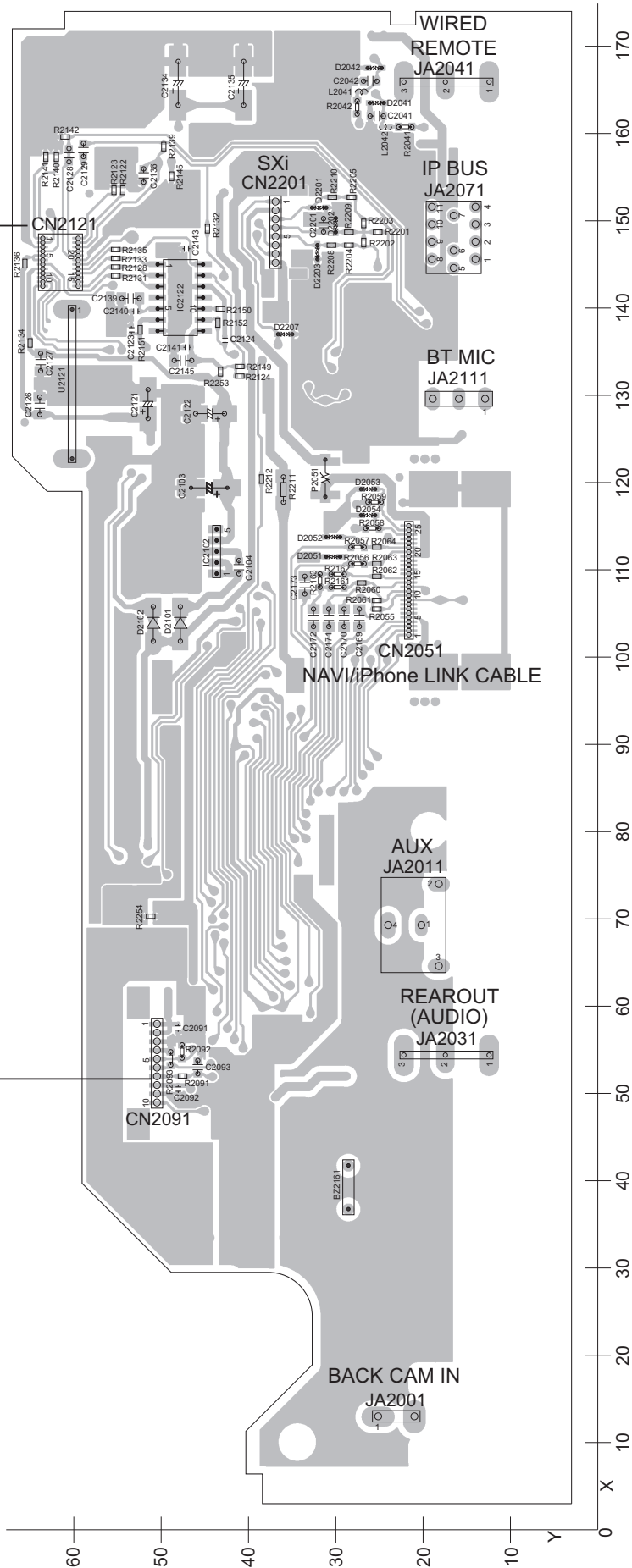
11.2 IF PCB

B IF PCB

SIDE A

BT MODULE

J CN101



11.3 DVD CORE UNIT

C DVD CORE UNIT

SIDE A

A

B

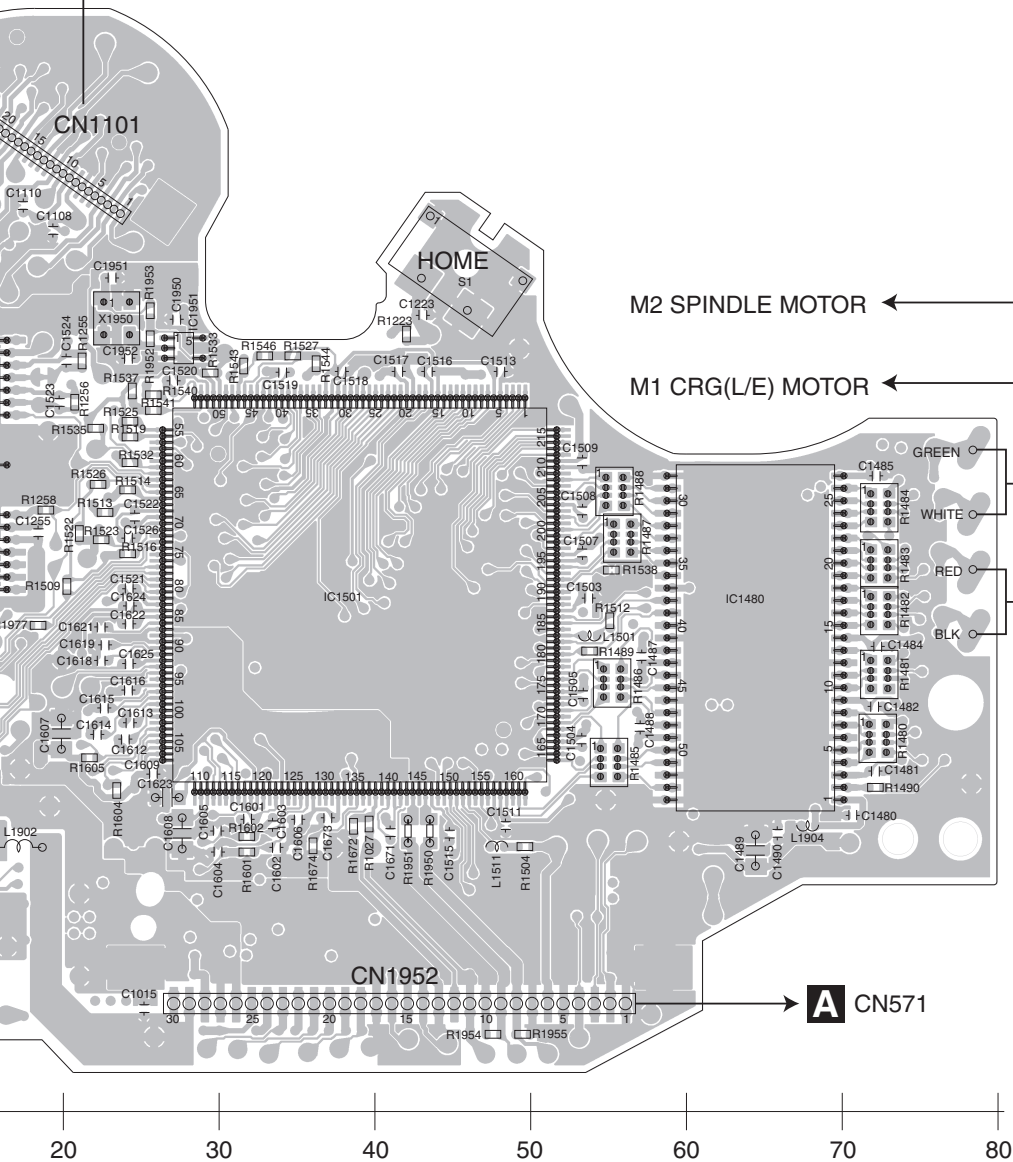
C

D

E

F

PU UNIT (DP11)



A CN571

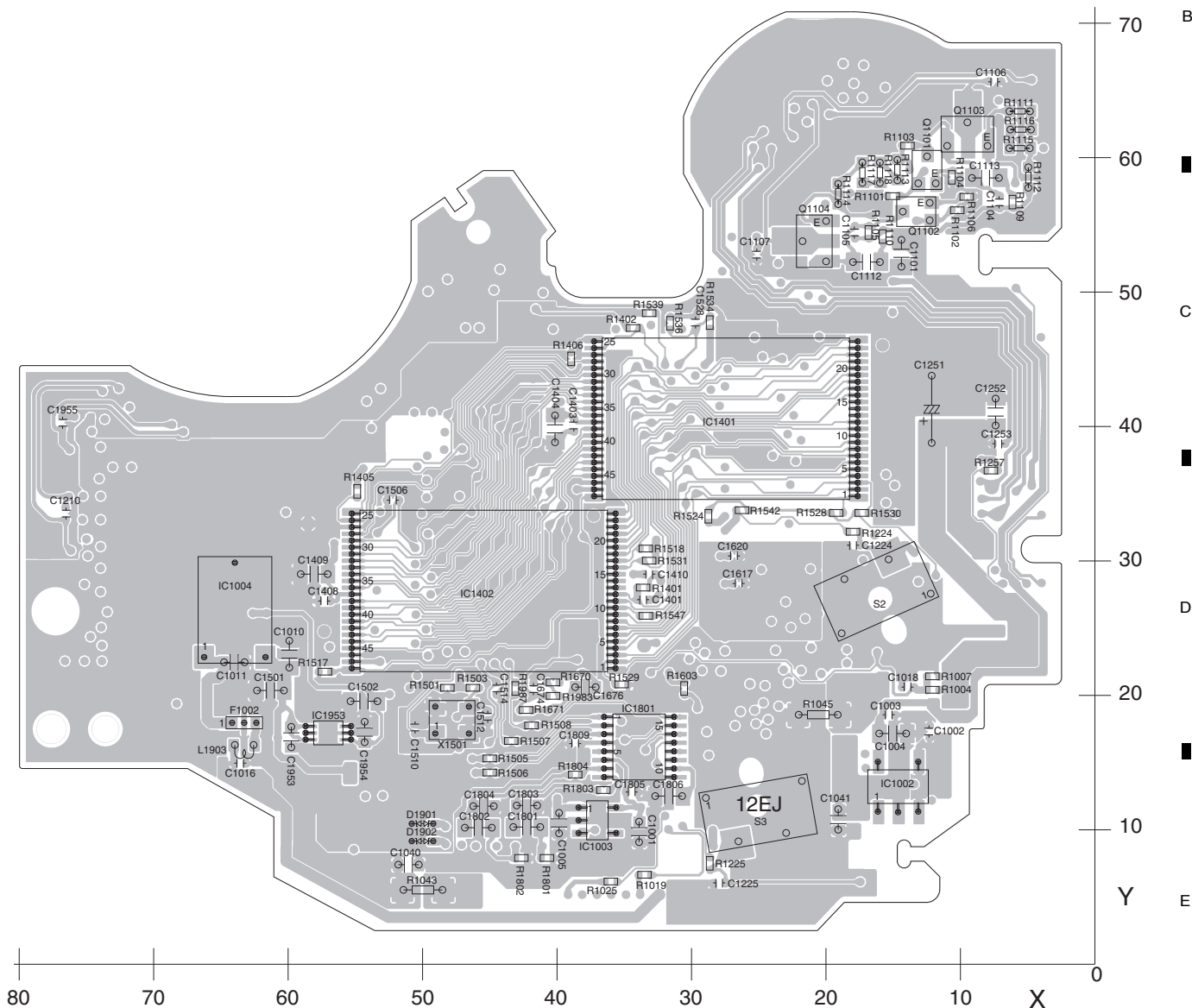
C

AVH-X8500BHS/XNUC

C DVD CORE UNIT

SIDE B

A

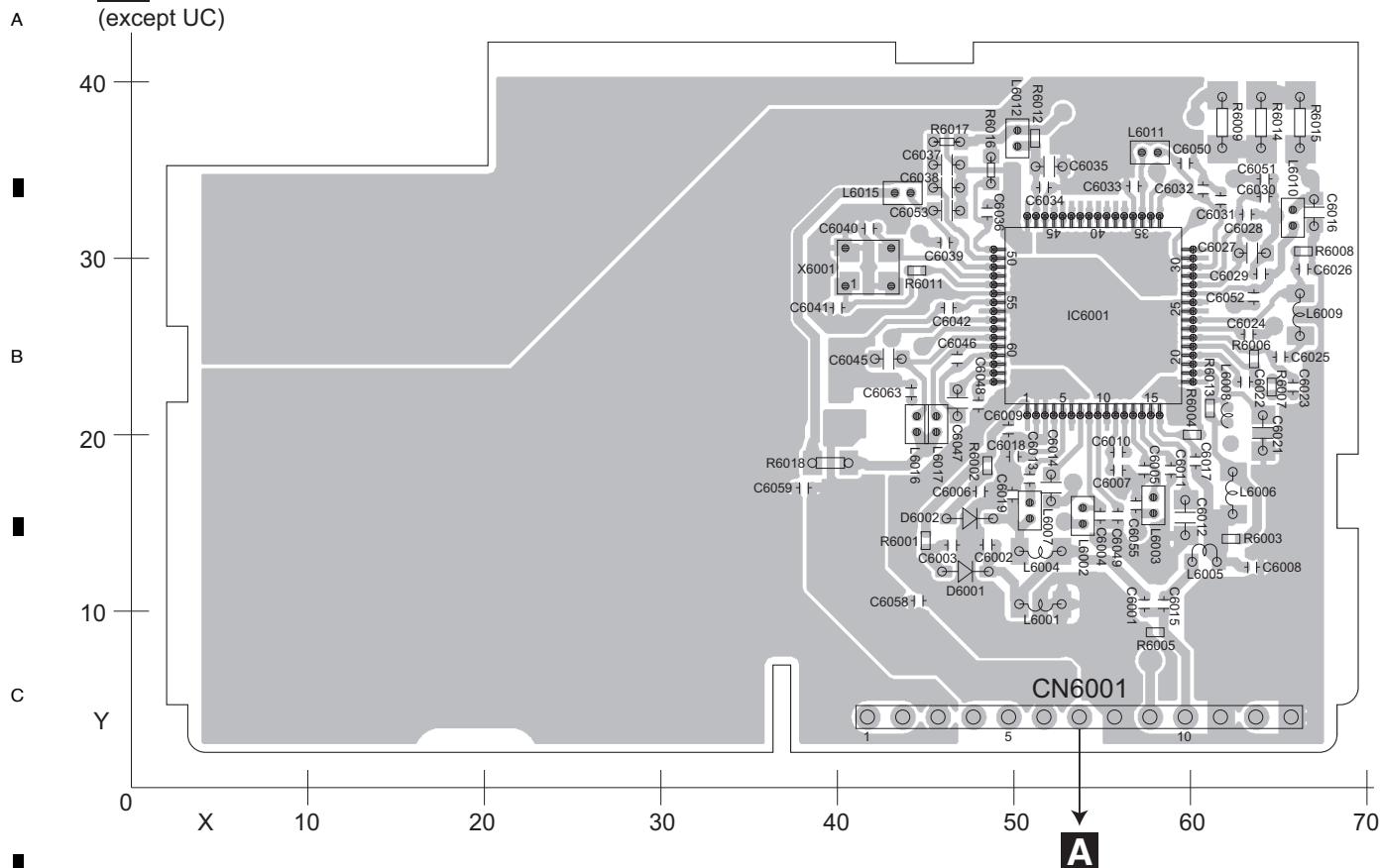


F

11.4 TUNER PCB

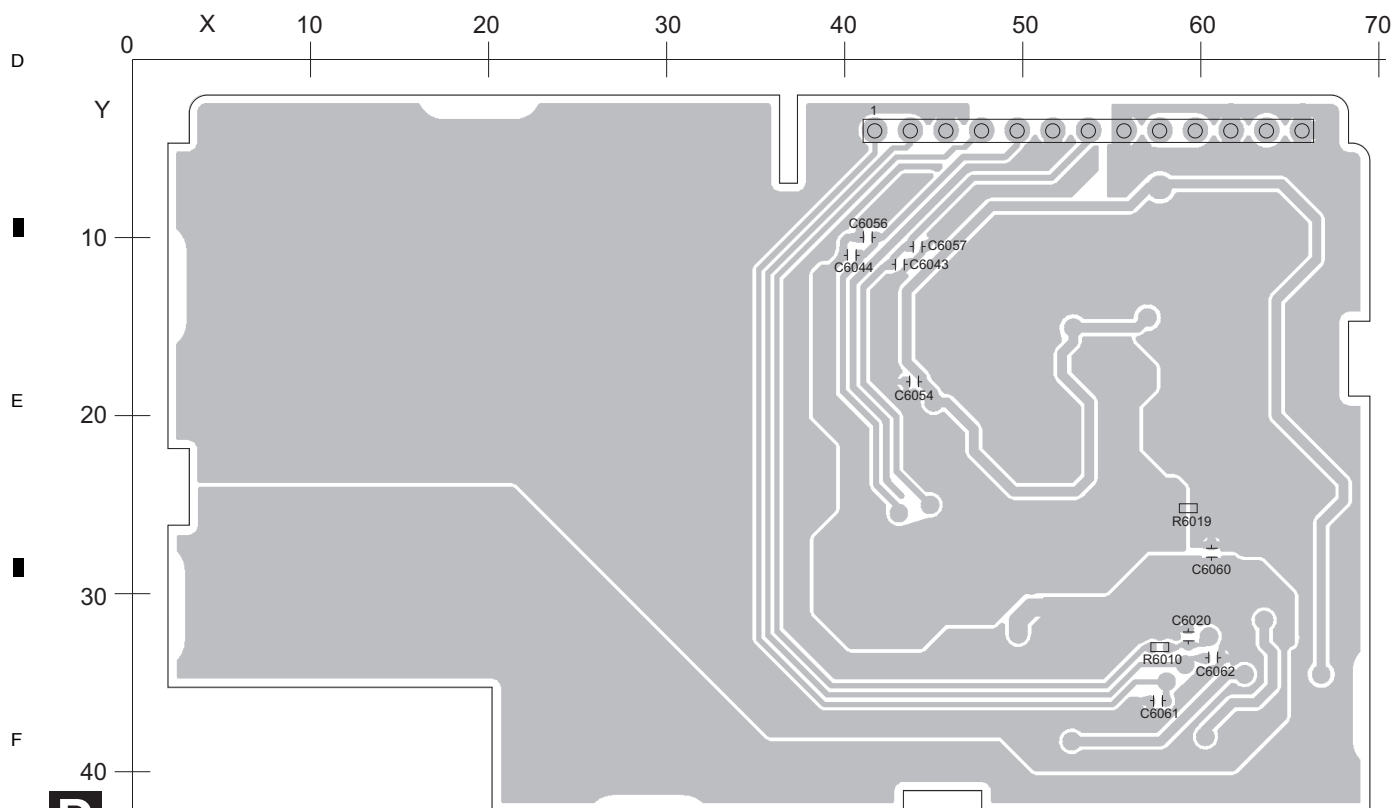
D TUNER PCB

SIDE A



D TUNER PCB

SIDE B



■

5

■

6

■

7

■

8

■

A

■

B

■

C

■

D

■

E

■

F

■

5

■

6

■

7

■

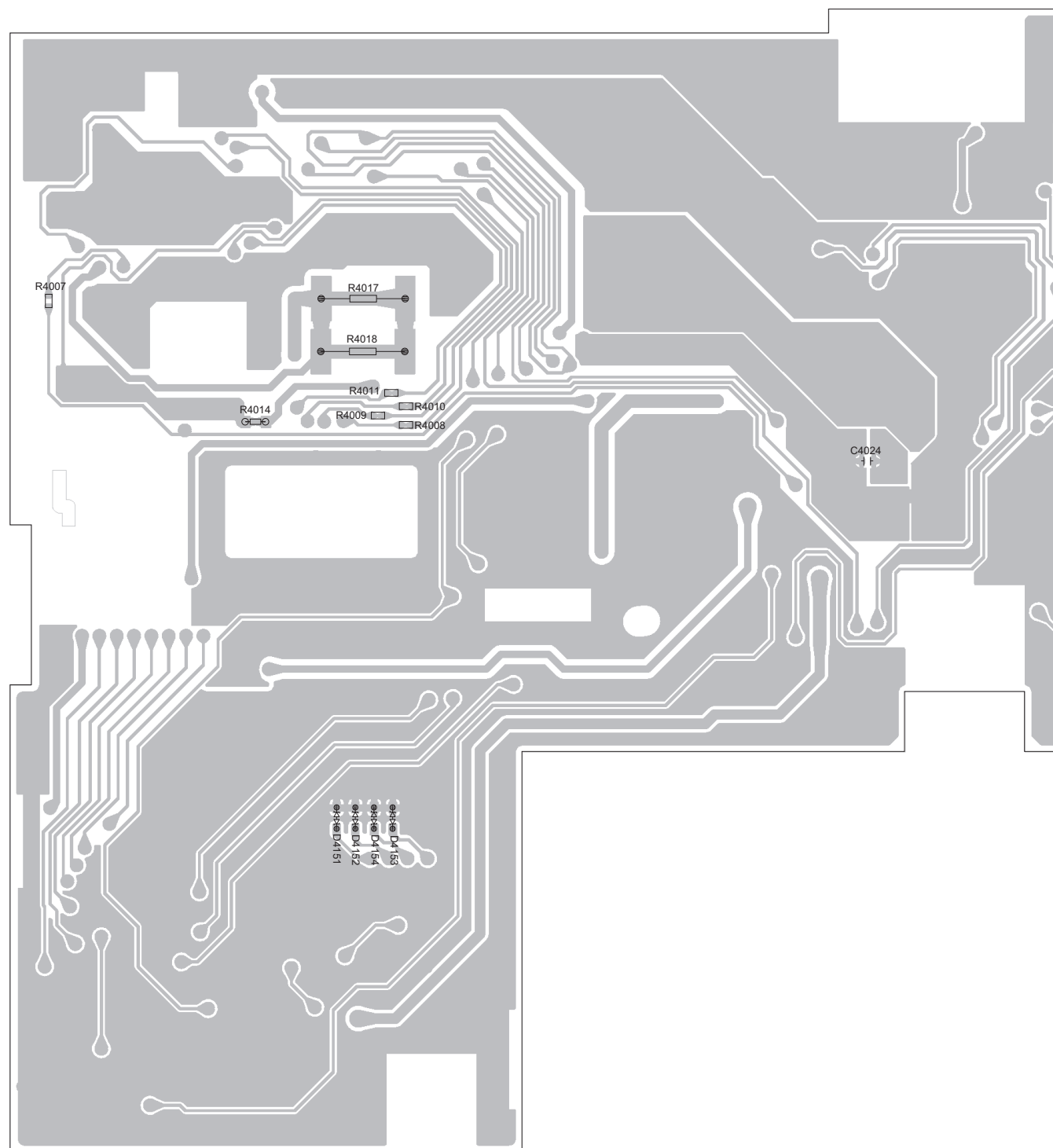
8

■

E MONITOR UNIT(SERVICE)



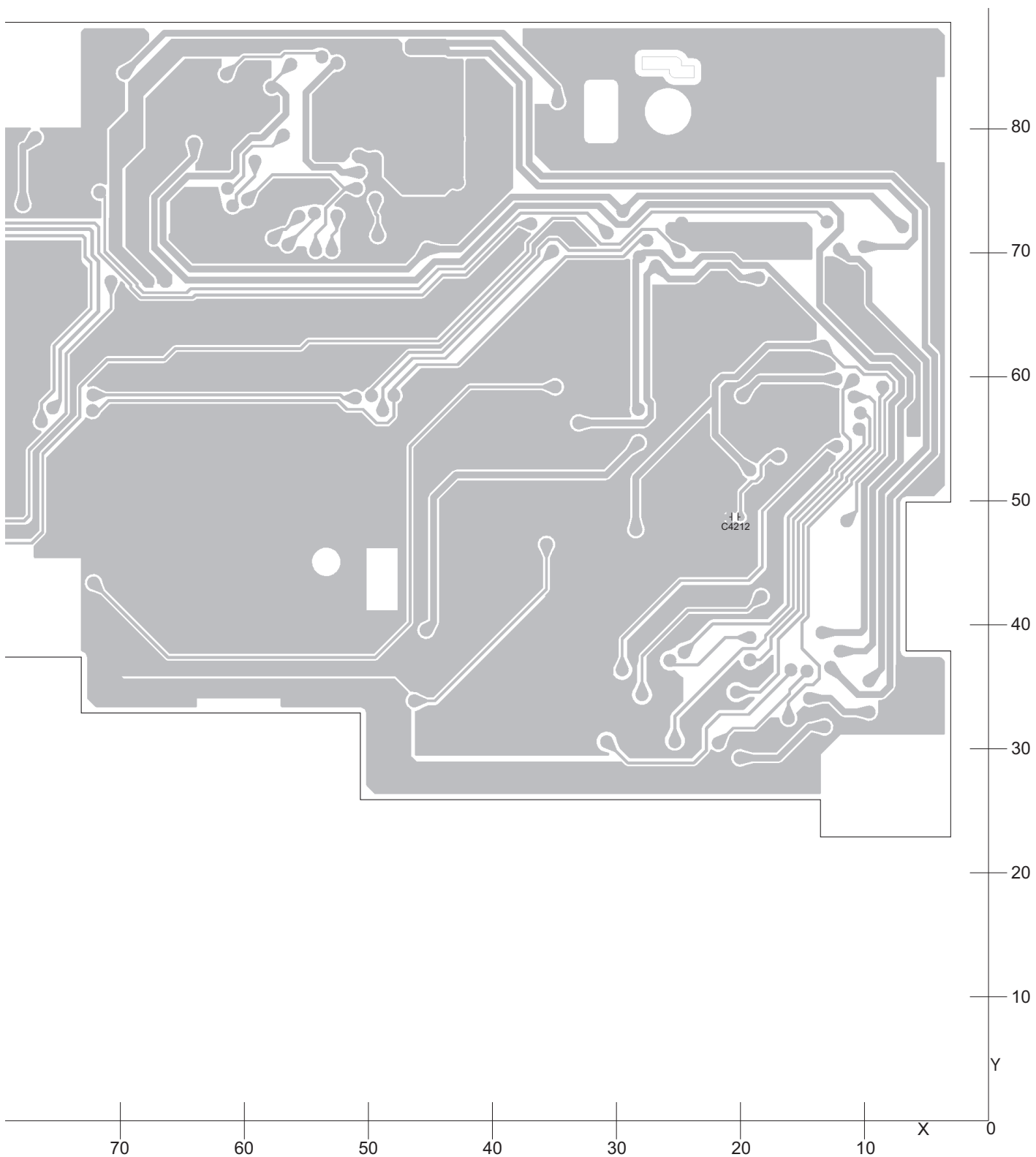
E MONITOR UNIT(SERVICE)



150 140 130 120 110 100 90 80

SIDE B

A



B

C

D

E

F

E

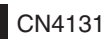
F

200

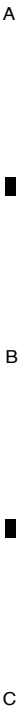
AVH-X8500BHS/XNUC

3

4



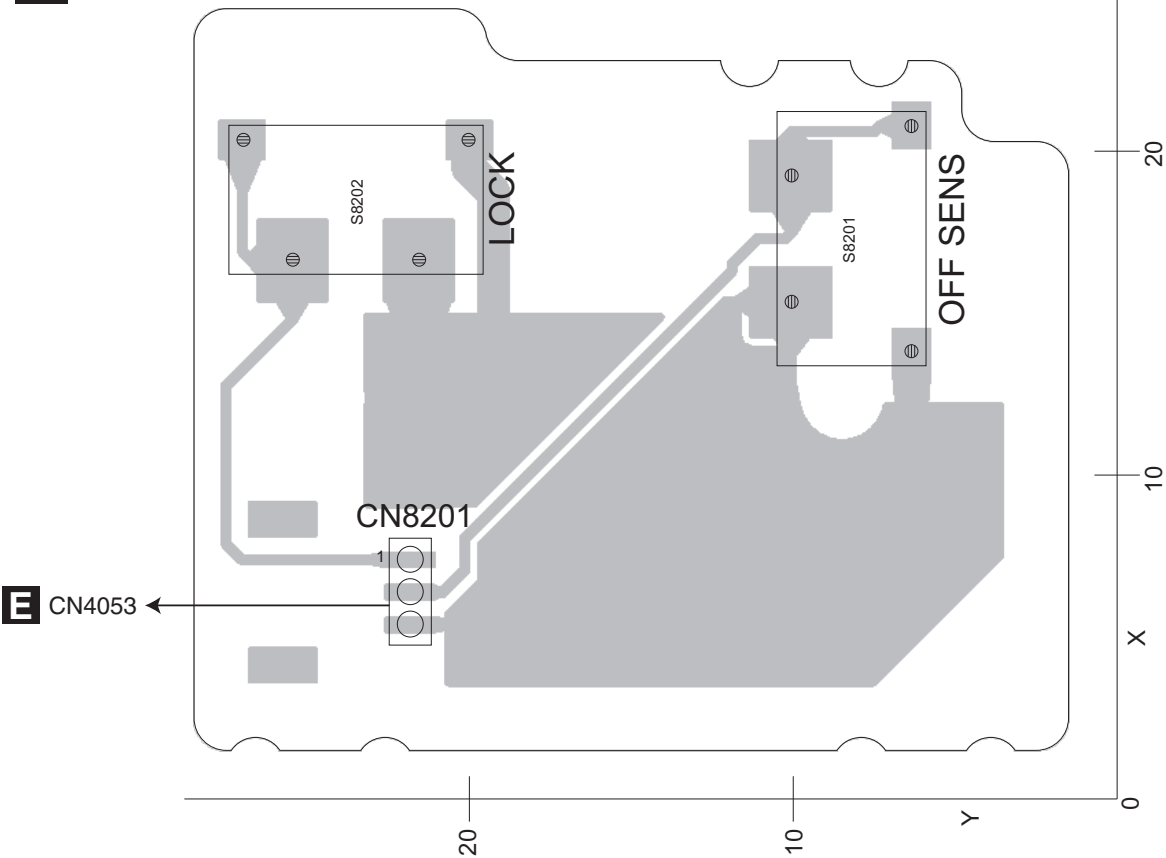
■ 5 ■ 6 ■ 7 ■ 8 ■



11.8 SW UNIT (SERVICE)

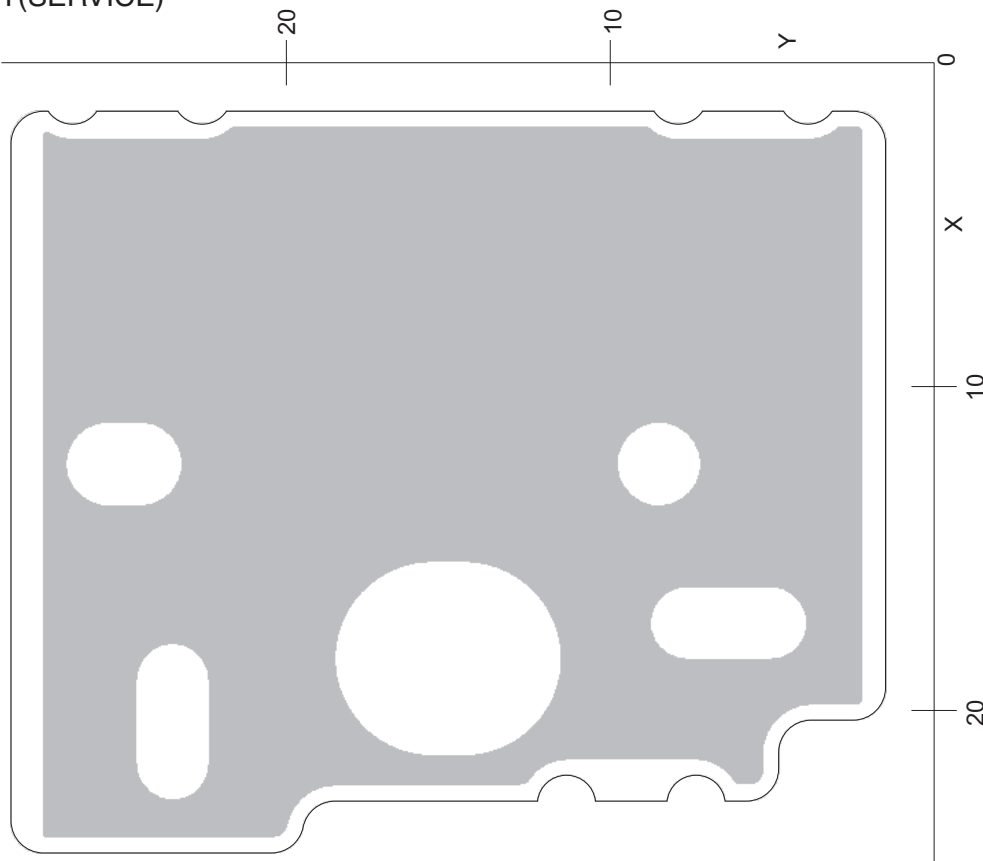
H SW UNIT(SERVICE)

SIDE A



H SW UNIT(SERVICE)

SIDE B



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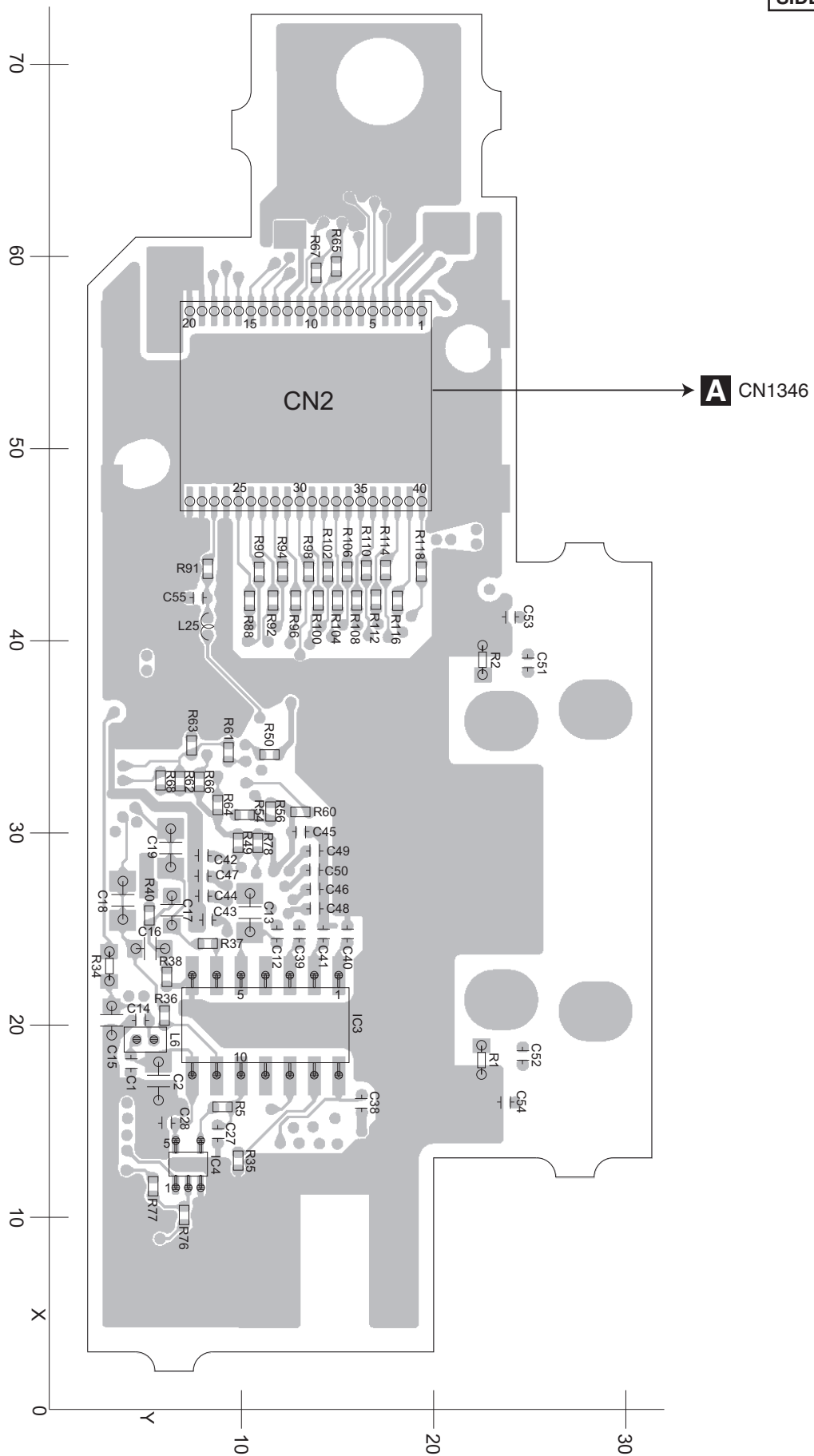
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HDMI UNIT

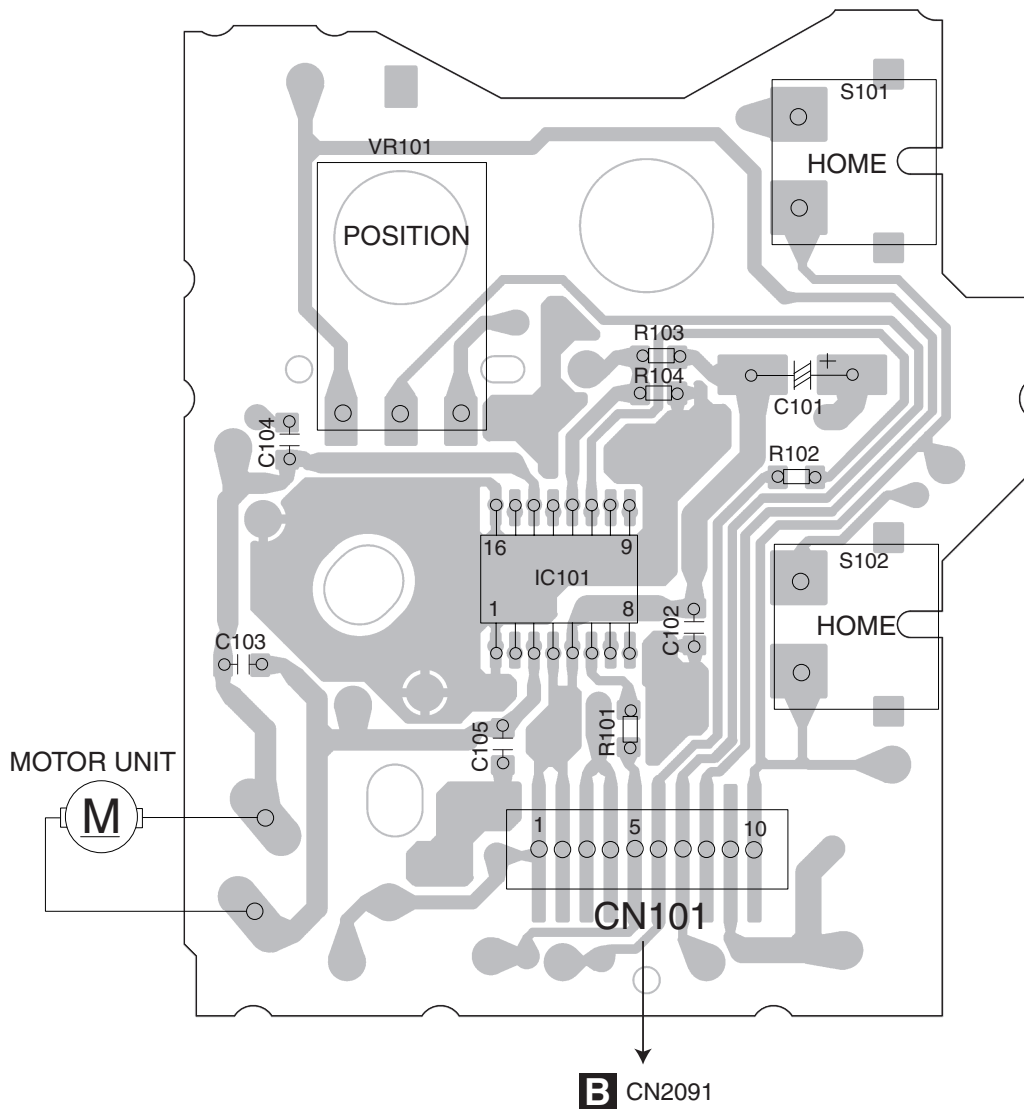
SIDE B



11.10 PCB UNIT (SERVICE)

J PCB UNIT(SERVICE)

SIDE A

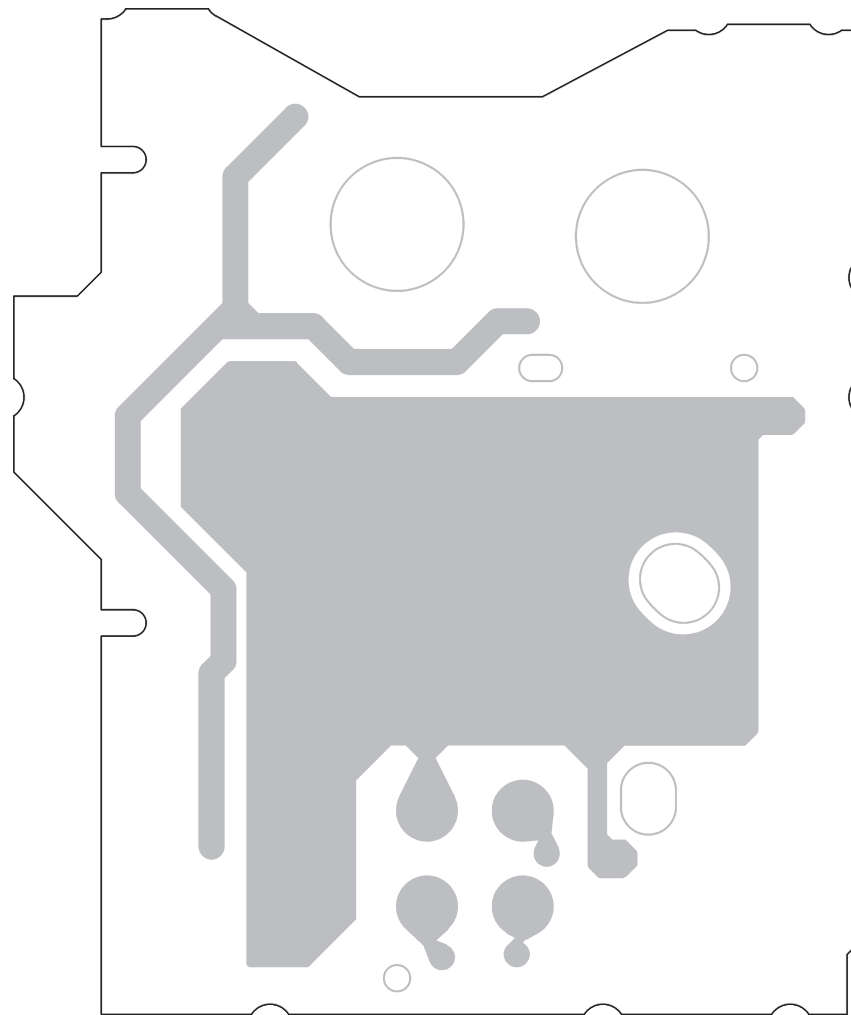


J

J

PCB UNIT(SERVICE)

SIDE B



12. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/○○○○○J,RS1/○○○○○J

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

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

- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- 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

- The expression of the unit in this manual is shown by u instead of μ . Please do not make a mistake.

Circuit Symbol and No.

Part No.

A:AVH-X8500BHS/XNUC

B:AVH-X8500BT/XNEW5

C:AVH-X8500BT/XNUW5

D:AVH-X8550BT/XNRC

E:AVH-X8550BT/XNRD

F:AVH-X8550BT/XNRI

G:AVH-X8590BT/XNID

Unit Number : YXX5120(A)

Unit Name : Mother Unit(Service) (A)

Unit Number : YXX5118(B)

Unit Number : YXX5119(C)

Unit Number : YXX5121(D)

Unit Number : YXX5122(E)

Unit Number : YXX5123(F)

Unit Number : YXX5124(G)

Unit Name : Mother Unit(Service)
(B,C,D,E,F,G)

Unit Number : YWX5033

Unit Name : DVD Core Unit

Unit Number : YXX5128

Unit Name : Monitor Unit(Service)

Unit Number : YXX5126

Unit Name : Key Unit(Service)

Unit Number : YXX5127

Unit Name : Case Unit(Service)

Unit Number : YXX5129

Circuit Symbol and No.

Part No.

Unit Name : SW Unit(Service)

Unit Number : YWM5608

Unit Name : HDMI Unit

Unit Number : EXX2001

Unit Name : PCB Unit(Service)

Mother Unit(Service) (A)

Consists of

Tuner Amp PCB

IF PCB

AB (A)

Unit Number : YXX5120(A)

Unit Name : Mother Unit(Service) (A)

MISCELLANEOUS

IC 101 (A,97,121) IC
IC 181 (B,40,96) IC
IC 231 (B,48,63) IC
IC 232 (A,59,64) IC
IC 261 (B,40,78) IC

PA2030A
PML020A
NJM4565V
NJM4565V
AK4223VQ

IC 401 (B,167,33) IC
IC 421 (A,147,76) D/A Converter
IC 422 (A,158,83) D/A Converter
IC 471 (B,139,91) LSI
IC 472 (A,134,91) IC

337S3959
PCM1753DBQ
PCM1753DBQ
ML86V7675TBZ03A
BH7673G

IC 521 (A,96,41) IC
IC 522 (B,100,41) IC
IC 523 (B,94,41) IC
IC 524 (B,94,44) IC
IC 601 (A,39,42) IC

BH7673G
BH7673G
BH7673G
BH7673G
PEQ135A8

IC 602 (B,58,35) RESET IC
IC 831 (B,119,110) IC
IC 832 (B,118,95) IC

S-80829CNMC-B8O
AN33014UA
AN33014UA

5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
IC 901	(B,25,74) IC	NJM4565V		Q 782	(B,36,111) Chip Transistor	HN1C03FU	
IC 951	(B,161,98) IC	AK8814VQ		Q 783	(B,44,111) Chip Transistor	HN1C03FU	
IC 1002	(A,159,72) Logic IC	TC7SHU04FUS1		Q 821	(A,150,11) Transistor	UMF23N	A
IC 1003	(B,166,72) Logic IC	TC7SHU04FUS1		Q 822	(A,145,12) Transistor	LSAR523UB	
IC 1004	(A,143,55) IC	R8A77240D500BG1		Q 871	(B,124,40) Chip Transistor	2SB1689	
IC 1006	(B,158,69) Logic IC	TC74VHC125FK		Q 1301	(A,33,71) Transistor	2SB1184F5	
IC 1201	(A,132,27) RAM IC	H5PS5162GFR-S5C		Q 1302	(A,49,76) Transistor	2SD1664	
IC 1202	(A,154,27) RAM IC	H5PS5162GFR-S5C		Q 1321	(A,89,80) FET	SFT1342	
IC 1241	(B,162,50) Flash ROM Unit(Service)	YXX5109		Q 1322	(A,89,66) FET	SFT1342	
IC 1301	(A,35,65) IC	S-812C33AUA-C2N		Q 1361	(B,83,29) Chip Transistor	2SB1689	
IC 1311	(A,165,80) IC	NJM2388F84		Q 1362	(B,84,35) Transistor	LTC043ZEB	
IC 1321	(B,90,73) IC	AN33012UA		Q 1381	(B,87,89) Transistor	LSAR523UB	
IC 1361	(A,86,59) IC	S-1142B50I-E6		Q 1382	(B,93,89) Transistor	LTC043ZEB	
IC 1371	(A,120,11) IC	NJM2886DL3-33		Q 1393	(B,112,45) Transistor	2SA1577	B
IC 1381	(B,97,94) IC	S-1172B33-E6		Q 1400	(B,109,47) Transistor	LTC043ZEB	
IC 1383	(B,100,102) IC	NJM2878F3-15		Q 1401	(A,103,44) Transistor	LSCR523UB	
IC 1391	(A,116,86) IC	S-1172B33-E6		Q 1422	(B,77,93) Transistor	2SB1132	
IC 1401	(A,107,49) IC	AL2010		Q 1423	(B,82,86) Transistor	LTC014EEB	
IC 1402	(A,114,71) IC	S-1172B13-E6		Q 1431	(A,112,11) Transistor	2SD2118	
IC 1441	(B,65,69) IC	TK11840L		Q 1432	(A,97,15) Transistor	LTC014EEB	
IC 1461	(A,38,83) IC	NJM2846DL3-05		Q 1433	(A,65,59) Transistor	KTX213U	
IC 1471	(B,22,34) IC	NJM2886DL3-33		Q 1434	(A,71,59) Transistor	LTC014EEB	
IC 1472	(A,23,57) IC	S-1172B11-E6		Q 1435	(A,68,64) Transistor	2SD1760F5	
IC 1473	(B,25,54) IC	NJM2855DL1-33		Q 1441	(B,70,82) Transistor	LSCR523UB	
IC 1601	(B,152,80) IC	TC74VHC541FK		Q 1442	(B,66,72) FET	RSF014N03	C
IC 1602	(B,157,89) IC	TC74VHC541FK		Q 1443	(B,71,66) Transistor	LTC043EEB	
IC 1605	(A,41,101) IC	TPD1052F		Q 1444	(A,108,111) Transistor	LTC014YEB	
IC 1610	(A,52,69) IC	TC4066BFT		Q 1445	(A,46,61) Chip Transistor	RN1904	
IC 1612	(B,28,86) IC	TC4066BFT		Q 1446	(B,24,93) Chip Transistor	RN1904	
IC 2101	(B,111,49) IC	NJM2856DL3-18		Q 1447	(B,74,101) Transistor	2SD2153	
IC 2102	(A,112,49) IC	NJM2886DL3-33		Q 2031	(B,52,31) Chip Transistor	HN1C03FU	
IC 2122	(A,141,48) IC	WM8761BGED		D 121	(A,51,105) Diode	CRG03	
Q 101	(A,110,110) Chip Transistor	RN4982		D 122	(A,51,107) Diode	CRG03	
Q 131	(A,97,102) Transistor	LTA024EEB		D 131	(A,93,103) Diode	DA2J101	
Q 132	(A,102,94) Transistor	LTA024EEB		D 132	(A,104,104) Diode	MC2848-11	
Q 133	(A,101,101) Transistor	LSCR523UB		D 133	(A,101,103) Diode	MC2848-11	D
Q 134	(A,97,104) Chip Transistor	RN4983		D 136	(A,83,107) Diode	MC2848-11	
Q 135	(A,102,108) Chip Transistor	RN1903		D 151	(B,56,98) Diode	MC2848-11	
Q 151	(B,57,94) Chip Transistor	HN1A01FU		D 152	(B,54,124) Diode	HZU7L(A1)	
Q 152	(B,71,124) Chip Transistor	HN1C01FU		D 153	(B,75,120) Diode	HZU7L(C3)	
Q 153	(B,75,124) Transistor	LSCR523UB		D 154	(B,78,123) Diode	RKZ20KG(B2)	
Q 154	(B,66,119) Transistor	LTC014EEB		D 155	(B,65,123) Diode	DA2J101	
Q 155	(B,68,123) Transistor	LTC014EEB		D 156	(B,63,125) Diode	RKZ5.6KG(B2)	
Q 231	(B,36,64) Transistor	LSCR523UB		D 231	(B,41,62) Diode	RKZ4.7KG(B2)	
Q 401	(B,163,32) Transistor	LSAR523UB		D 601	(B,59,39) Diode	DA2J101	
Q 421	(B,120,57) Chip Transistor	RN4982		D 702	(B,54,20) Diode	EMZC6.8N	
Q 422	(B,119,55) Chip Transistor	HN1C03FU		D 703	(B,55,25) Diode	EMZC6.8N	E
Q 423	(B,119,63) Chip Transistor	RN4982		D 704	(B,56,20) Diode	EMZC6.8N	
Q 424	(B,119,66) Chip Transistor	HN1C03FU		D 705	(B,58,25) Diode	EMZC6.8N	
Q 471	(A,129,85) Transistor	LSAR523UB		D 706	(B,58,20) Diode	EMZC6.8N	
Q 521	(B,97,48) Transistor	LSCR523UB		D 707	(B,60,25) Diode	EMZC6.8N	
Q 522	(B,100,46) Transistor	LSCR523UB		D 708	(B,61,20) Diode	EMZC6.8N	
Q 523	(B,107,42) Transistor	LSCR523UB		D 709	(B,62,25) Diode	EMZC6.8N	
Q 524	(A,103,39) Transistor	LSCR523UB		D 710	(B,63,20) Diode	EMZC6.8N	
Q 571	(A,25,12) Chip Transistor	RN4982		D 711	(B,64,25) Diode	EMZC6.8N	
Q 572	(A,28,15) Chip Transistor	HN1C03FU		D 712	(B,65,20) Diode	EMZC6.8N	
Q 591	(A,48,90) Transistor	UMF23N		D 713	(B,80,20) Diode	DZ2S068C	F
Q 601	(A,60,48) Transistor	LSCR523UB		D 714	(B,82,25) Diode	DZ2S068C	
Q 602	(B,83,19) Transistor	LSCR523UB		D 715	(B,81,25) Diode	DZ2S068C	
Q 781	(B,28,111) Chip Transistor	HN1C03FU		D 716	(B,79,25) Diode	DZ2S068C	

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	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
	D 717 (B,78,25) Diode	DZ2S068C	D 1475 (A,45,97) Diode	CRG03
A	D 718 (B,78,20) Diode	DZ2S068C	D 2012 (B,66,31) Diode	DZ2S068C
	D 719 (B,77,20) Diode	DZ2S068C	D 2013 (B,69,33) Diode	DZ2S068C
	D 720 (B,76,20) Diode	DZ2S068C	D 2014 (B,62,31) Diode	DZ2S068C
	D 721 (B,75,20) Diode	DZ2S068C		
	D 722 (B,81,20) Diode	DZ2S068C	L 103 (A,110,112) Inductor	CTF1389
			L 121 (A,66,99) Choke Coil 600 uH	CTH1221
	D 723 (B,73,20) Diode	DZ2S068C	L 131 (A,79,108) Chip Coil	BTH1101
	D 724 (B,72,20) Diode	DZ2S068C	L 151 (B,59,102) Chip Coil	BTH1101
	D 725 (B,70,20) Diode	DZ2S068C		
	D 726 (B,71,25) Diode	DZ2S068C	L 152 (B,59,125) Inductor	CTF1547
	D 727 (B,68,25) Diode	DZ2S068C	L 472 (B,147,87) Chip Beads	VTL1132
			L 521 (B,107,40) Inductor	CTF1545
	D 728 (B,68,20) Diode	DZ2S068C	L 522 (B,102,47) Inductor	CTF1545
	D 729 (B,67,20) Diode	DZ2S068C	L 523 (A,101,41) Inductor	CTF1545
B	D 730 (B,66,25) Diode	DZ2S068C		
	D 731 (B,77,25) Diode	DZ2S068C	L 524 (B,104,45) Inductor	CTF1545
	D 732 (B,51,21) Diode	DZ2S068C	L 601 (A,28,59) Ferrite Bead	CTF1528
			L 701 (A,74,24) Inductor	XTL3010
	D 733 (B,54,25) Diode	DZ2S068C	L 831 (A,127,109) Inductor	CTH1524
	D 761 (A,139,119) Diode	DZ2S068C	L 832 (A,160,102) Inductor	CTF1713
	D 762 (A,116,116) Diode	DZ2S068C		
	D 763 (A,116,120) Diode	DZ2S068C	L 833 (A,151,110) Inductor	CTF1713
	D 765 (A,116,118) Diode	DZ2S068C	L 836 (A,126,98) Inductor	CTH1524
			L 951 (B,171,102) Inductor	LCTAW2R7J2520
	D 811 (A,143,14) Diode	DZ2S068C	L 952 (B,152,100) Inductor	LCTAW2R7J2520
	D 812 (A,143,11) Diode	DZ2S068C	L 1001 (A,130,42) Chip Beads	VTL1127
	D 821 (A,148,16) Diode	RKZ3.9KG(B2)		
C	D 831 (B,125,108) Diode	DB2X41400	L 1002 (A,127,51) Chip Beads	VTL1126
	D 832 (A,164,105) Diode	EZAEG2A50AX	L 1003 (A,125,52) Chip Beads	VTL1126
			L 1004 (A,127,49) Chip Beads	VTL1126
	D 833 (B,124,93) Diode	DB2X41400	L 1005 (A,125,50) Chip Beads	VTL1126
	D 834 (A,153,109) Diode	EZAEG2A50AX	L 1006 (A,127,50) Chip Beads	VTL1126
	D 835 (A,154,119) Diode	DZ2S068C		
	D 836 (A,154,114) Diode	DZ2S068C	L 1007 (A,125,51) Chip Beads	VTL1126
	D 837 (A,109,104) Diode	RSX201L-30	L 1008 (A,127,48) Chip Beads	VTL1126
			L 1009 (A,125,49) Chip Beads	VTL1126
	D 838 (A,162,105) Diode	EZAEG2A50AX	L 1010 (A,127,47) Chip Beads	VTL1126
	D 839 (A,154,111) Diode	EZAEG2A50AX	L 1011 (A,125,48) Chip Beads	VTL1126
	D 840 (A,110,92) Diode	RSX201L-30		
	D 871 (B,119,36) Diode	EZAEG2A50AX	L 1012 (A,125,46) Chip Beads	VTL1126
D	D 872 (B,115,37) Diode	EZAEG2A50AX	L 1013 (A,127,46) Chip Beads	VTL1126
			L 1014 (A,125,47) Chip Beads	VTL1126
	D 873 (B,106,37) Diode	EZAEG2A50AX	L 1015 (A,125,45) Chip Beads	VTL1126
	D 874 (B,104,37) Diode	EZAEG2A50AX	L 1016 (A,127,45) Chip Beads	VTL1126
	D 875 (B,102,37) Diode	EZAEG2A50AX		
	D 876 (B,112,36) Diode	EZAEG2A50AX	L 1017 (A,125,43) Chip Beads	VTL1126
	D 877 (B,128,17) Diode	DZ2S068C	L 1018 (A,127,43) Chip Beads	VTL1126
			L 1019 (A,125,44) Chip Beads	VTL1126
	D 878 (B,122,36) Diode	DZ2S068C	L 1020 (A,127,44) Chip Beads	VTL1126
	D 879 (B,128,14) Diode	DZ2S068C	L 1021 (B,156,73) Chip Beads	VTL1132
	D 1303 (A,52,77) Diode	RKZ18KG(B2)		
	D 1304 (A,44,77) Diode	1SR154-400	L 1022 (A,127,42) Chip Beads	VTL1126
E	D 1321 (A,91,75) Diode	RB080L-30	L 1023 (B,151,64) Chip Beads	VTL1132
			L 1024 (A,156,60) Chip Beads	VTL1126
	D 1322 (A,91,71) Diode	RB080L-30	L 1025 (B,156,66) Chip Beads	VTL1132
	D 1323 (A,93,88) Diode	CMS03	L 1026 (B,158,66) Chip Beads	VTL1132
	D 1324 (A,89,88) Diode	CMS03		
	D 1401 (A,108,56) Diode	DB2X206	L 1321 (A,101,86) Inductor	ATH1219
	D 1421 (B,78,101) Diode	RKZ16KG(B2)	L 1322 (A,101,61) Inductor	CTH1541
			L 1323 (A,78,85) Choke Coil 6.8 uH	CTH1434
	D 1432 (A,105,17) Diode	HZU6R2(B3)	L 1401 (A,112,60) Inductor	CTH1526
	D 1433 (A,77,62) Diode	RKZ8.2KG(B2)	L 1441 (A,64,71) Choke Coil 47 uH	CTH1388
	D 1434 (A,73,59) Diode	RKZ6.8KG(B2)		
	D 1441 (B,67,81) Diode	HZU13(B1)	L 1442 (B,62,66) Inductor	CTF1735
	D 1442 (B,70,74) Diode	RB551VM-30	L 1601 (B,157,84) Chip Beads	VTL1126
F	D 1461 (A,33,95) Diode	1SR154-400	L 2011 (B,61,31) Inductor	CTF1545
	D 1462 (A,33,99) Diode	1SR154-400	L 2012 (B,70,35) Inductor	CTF1545
	D 1463 (A,31,90) Diode	1SR154-400	L 2013 (B,65,34) Inductor	CTF1545
	D 1464 (A,34,90) Diode	1SR154-400		
			L 2031 (B,49,29) Inductor	CTF1545

5			6			7			8		
<u>Circuit Symbol and No.</u>			<u>Part No.</u>			<u>Circuit Symbol and No.</u>			<u>Part No.</u>		
L 2032	(B,55,29)	Inductor	CTF1545			R 132	(A,104,100)		RS1/16SS472J		
L 2041	(A,165,27)	Inductor	CTF1545			R 133	(A,103,100)		RS1/16SS473J		
L 2042	(A,161,24)	Inductor	CTF1545			R 134	(A,97,107)		RS1/16SS222J		
						R 135	(A,99,107)		RS1/16SS823J		A
L 2111	(B,130,25)	Inductor	CTF1545								
L 2112	(B,126,25)	Inductor	CTF1639			R 136	(A,104,108)		RS1/16SS101J		
X 471	(B,144,81)	Crystal Resonator 32.000 MHz	CSS1818			R 137	(A,98,107)		RS1/16SS152J		
X 601	(A,59,39)	Resonator 3.932 16 MHz	CSS1772			R 141	(A,81,106)		RS1/16SS153J		
X 1002	(A,155,72)	Resonator 27.000 MHz	CSS1768			R 142	(A,87,107)		RS1/10SR472J		
						R 153	(B,59,99)		RS1/16SS103J		
X 1003	(B,166,68)	Resonator 22 579.2 kHz	CSS1812								
X 1004	(A,127,66)	Resonator 48.000 MHz	CSS1760			R 154	(B,55,93)		RS1/16SS473J		
X 1005	(A,127,59)	Crystal Resonator 33.333 333 MHz	CSS1825			R 155	(B,57,92)		RS1/16SS473J		
P 761	(A,113,116)	Poly Switch	FSMD075-24R			R 156	(B,59,94)		RS1/16SS473J		
P 781	(A,24,110)	Poly Switch	FSMD075-24R			R 157	(B,57,96)		RS1/16SS473J		
						R 158	(B,53,123)		RS1/16SS472J		
P 901	(B,19,88)	Surge Absorber	IMSA-6803-01Y900								B
⚠ P1321	(A,70,82)	Fuse 6.3 A	CEK1262			R 159	(B,55,122)		RS1/16SS473J		
⚠ P1322	(A,22,12)	Fuse 1.25 A	CEK1382			R 160	(B,55,126)		RS1/16SS103J		
⚠ P1323	(A,21,23)	Fuse 3.0 A	CEK1386			R 163	(B,73,120)		RS1/16SS473J		
⚠ P1361	(A,96,25)	Fuse 4.0 A	CEK1387			R 164	(B,73,123)		RS1/16SS104J		
						R 165	(B,75,121)		RS1/16SS103J		
⚠ P1381	(A,111,78)	Fuse 3.0 A	CEK1386								
⚠ P1382	(B,94,103)	Fuse 0.5 A	CEK1379			R 166	(B,77,124)		RS1/16SS103J		
⚠ P1391	(B,111,50)	Fuse 1.0 A	CEK1381			R 167	(B,64,119)		RS1/16SS103J		
⚠ P1421	(B,78,97)	Fuse 0.75 A	CEK1380			R 168	(B,60,125)		RS1/16SS103J		
⚠ P1431	(A,100,14)	Fuse 2.5 A	CEK1385			R 169	(B,69,121)		RS1/16SS104J		
						R 171	(B,64,123)		RS1/10SR472J		
⚠ P1435	(A,113,28)	Fuse 0.5 A	CEK1379								
⚠ P1441	(B,60,65)	Fuse 0.5 A	CEK1379			R 181	(B,36,108)		RS1/16SS182J		C
P 2031	(B,46,38)	Poly Switch	FSMD075-24R			R 182	(B,39,109)		RS1/16SS182J		
P 2051	(A,121,31)	Poly Switch	FSMD075-24R			R 183	(B,36,109)		RS1/16SS272J		
BZ2161	(A,39,29)	Buzzer	CPV1062			R 184	(B,40,109)		RS1/16SS272J		
CN571	(A,29,20)	Connector	VKN1620			R 185	(B,39,107)		RS1/16SS182J		
CN591	(A,80,48)	Connector	CKS6136								
						R 186	(B,42,107)		RS1/16SS182J		
CN702	(A,67,17)	Connector	CKS6536			R 187	(B,43,106)		RS1/16SS272J		
CN761	(A,132,124)	Connector	CKS6504			R 188	(B,43,107)		RS1/16SS272J		
CN1346	(A,152,95)	Connector	CKS6503			R 196	(B,32,90)		RS1/16SS473J		
CN1435	(A,113,24)	Connector	CKS4822			R 198	(B,52,86)		RS1/16SS0R0J		
CN2051	(A,109,15)	Connector	CKS4497								
						R 231	(B,52,57)		RS1/10SR153J		
CN2091	(A,53,54)	Connector	CKS6095			R 232	(B,48,59)		RS1/10SR153J		D
CN2121	(A,145,62)	Connector	CKS6346			R 233	(B,45,59)		RS1/10SR153J		
CN2161	(B,80,50)	Connector	DKN1396			R 234	(A,58,59)		RS1/10SR153J		
CN2201	(A,149,35)	Connector	CKS6007			R 235	(B,50,66)		RS1/10SR153J		
JA121	(A,62,118)	Plug	CKM1376								
						R 236	(B,53,59)		RS1/10SR153J		
JA781	(A,35,120)	Pin Jack	XKB7001			R 237	(A,54,58)		RS1/10SR273J		
JA811	(A,138,10)	Jack	CKS6437			R 238	(B,51,60)		RS1/10SR153J		
JA831	(A,163,114)	Connector	DKN1417			R 239	(A,53,58)		RS1/10SR273J		
JA871	(B,110,20)	Connector	CKS6282			R 240	(B,49,58)		RS1/10SR153J		
JA901	(A,14,111)	Antenna Jack	YKS5041								
						R 242	(B,38,64)		RS1/16SS102J		
JA2001	(A,13,21)	RCA Jack	CKB1106			R 243	(B,36,61)		RS1/16SS472J		
JA2011	(A,69,9)	Mini Jack	AKN1073			R 246	(A,62,62)		RS1/10SR153J		E
JA2031	(A,54,17)	Jack	CKS6437			R 247	(A,61,59)		RS1/10SR473J		
JA2041	(A,166,17)	Jack	CKS6437			R 248	(A,56,63)		RS1/10SR153J		
JA2111	(A,130,16)	Jack	CKN1040								
						R 249	(A,56,61)		RS1/10SR153J		
						R 250	(A,56,66)		RS1/10SR153J		
						R 251	(A,58,58)		RS1/10SR153J		
						R 252	(B,46,66)		RS1/10SR153J		
						R 261	(B,40,68)		RS1/16SS0R0J		
						R 262	(B,51,70)		RS1/16SS0R0J		
						R 263	(B,51,79)		RS1/16SS0R0J		
						R 264	(B,51,84)		RS1/16SS0R0J		
						R 267	(B,35,84)		RS1/16SS0R0J		F
						R 268	(B,30,75)		RS1/16SS2200D		
						R 271	(B,28,81)		RS1/16SS750J		
WWR C-TUN Unit			CWE2347								
RESISTORS											
R 101	(A,110,113)		RS1/16SS103J								
R 102	(A,111,108)		RS1/16SS473J								
R 121	(B,60,121)		RS1/4SA102J								
R 122	(B,54,120)		RS1/4SA102J								
R 123	(B,58,121)		RS1/4SA102J								
R 131	(A,94,100)		RS1/16SS102J								

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

R 272 (B,31,75)
R 273 (B,31,76)
R 274 (B,31,77)
R 275 (B,30,79)

RS1/16SS0R0J
RS1/16SS101J
RS1/16SS101J
RS1/16SS0R0J

R 444 (B,148,82)
R 445 (B,116,56)
R 446 (B,40,66)
R 449 (A,151,79)

RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J

A

R 276 (B,30,80)
R 277 (B,30,81)
R 279 (B,44,87)
R 280 (B,45,85)
R 282 (A,45,91)

RS1/16SS101J
RS1/16SS101J
RS1/10SR0R0J
RS1/10SR0R0J
RS1/16SS75R0D

R 451 (A,147,83)
R 452 (A,151,77)
R 471 (A,126,86)
R 474 (A,126,85)
R 475 (B,153,70)

RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS101J
RS1/16SS301J
RS1/16SS0R0J

R 283 (B,36,84)
R 284 (B,35,71)
R 285 (B,36,71)
R 287 (B,38,67)
R 288 (B,41,68)

RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J

R 476 (B,153,71)
R 477 (B,132,84)
R 478 (B,129,87)
R 479 (B,129,94)
R 480 (A,126,90)

RS1/16SS0R0J
RS1/16SS151J
RS1/16SS151J
RS1/16SS151J
RS1/16SS0R0J

B

R 289 (B,42,68)
R 290 (B,44,68)
R 292 (B,31,74)
R 293 (B,30,78)
R 295 (A,46,89)

RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS470J

R 481 (A,132,83)
R 483 (B,139,81)
R 484 (B,140,99)
R 485 (B,142,83)
R 487 (B,145,84)

RS1/16SS0R0J
RS1/16SS472J
RS1/16SS473J
RS1/16SS105J
RS1/16SS101J

R 310 (B,46,68)
R 326 (B,51,69)
R 327 (B,51,72)
R 328 (B,51,73)
R 329 (B,51,75)

RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J

R 488 (B,145,83)
R 489 (B,141,82)
R 490 (A,131,85)
R 492 (B,149,90)
R 493 (B,147,90)

RS1/16SS101J
RS1/16SS821J
RS1/16SS0R0J
RS1/16SS181J
RS1/16SS181J

C

R 330 (B,51,77)
R 331 (B,51,78)
R 333 (B,51,81)
R 342 (B,31,73)
R 343 (B,31,72)

RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J

R 494 (B,149,91)
R 495 (B,147,91)
R 496 (B,149,92)
R 497 (B,147,92)
R 498 (B,149,93)

RS1/16SS181J
RS1/16SS181J
RS1/16SS181J
RS1/16SS181J
RS1/16SS181J

R 345 (A,37,76)
R 346 (B,30,82)
R 347 (B,30,83)
R 373 (A,36,76)
R 374 (B,51,82)

RS1/16SS101J
RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS103J
RS1/16SS0R0J

R 499 (B,147,93)
R 500 (B,149,94)
R 501 (B,147,94)
R 502 (B,149,95)
R 503 (B,133,79)

RS1/16SS181J
RS1/16SS560J
RS1/16SS560J
RS1/16SS560J
RS1/16SS0R0J

D

R 375 (B,51,85)
R 401 (B,164,34)
R 402 (B,170,30)
R 403 (B,164,27)
R 404 (B,163,27)

RS1/16SS0R0J
RS1/16SS472J
RS1/16SS272J
RS1/16SS101J
RS1/16SS101J

R 504 (B,149,83)
R 505 (B,148,83)
R 506 (B,147,85)
R 507 (B,148,86)
R 508 (B,141,99)

RS1/16SS222J
RS1/16SS222J
RS1/16SS101J
RS1/16SS473J
RS1/16SS101J

R 405 (B,167,31)
R 406 (B,165,30)
R 421 (B,120,59)
R 422 (B,119,53)
R 423 (B,116,54)

RS1/16SS103J
RS1/16SS103J
RS1/16SS102J
RS1/16SS472J
RS1/16SS472J

R 510 (B,128,92)
R 512 (B,149,87)
R 514 (A,130,90)
R 515 (A,130,88)
R 516 (A,131,90)

RS1/16SS151J
RS1/16SS331J
RS1/16SS750J
RS1/16SS0R0J
RS1/16SS750J

E

R 424 (A,156,76)
R 425 (A,154,78)
R 426 (A,151,75)
R 427 (A,152,78)
R 428 (A,148,71)

RS1/16SS104J
RS1/16SS104J
RS1/16SS821J
RS1/16SS821J
RS1/16SS0R0J

R 536 (A,99,39)
R 540 (B,96,46)
R 551 (B,100,43)
R 552 (B,103,42)
R 553 (B,98,44)

RS1/16SS101J
RS1/16SS101J
RS1/10SR101J
RS1/16SS101J
RS1/16SS101J

R 429 (A,145,81)
R 430 (A,146,82)
R 431 (B,117,66)
R 432 (B,117,64)
R 433 (B,119,60)

RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS472J
RS1/16SS472J
RS1/16SS102J

R 554 (A,124,86)
R 571 (A,24,14)
R 572 (A,27,13)
R 573 (A,28,13)
R 574 (A,32,16)

RS1/16SS0R0J
RS1/16SS102J
RS1/16SS472J
RS1/16SS472J
RS1/16SS0R0J

F

R 434 (A,149,84)
R 435 (A,149,83)
R 436 (A,152,83)
R 437 (A,154,83)
R 438 (A,160,79)

RS1/16SS104J
RS1/16SS104J
RS1/16SS821J
RS1/16SS821J
RS1/16SS0R0J

R 577 (A,31,25)
R 578 (A,29,25)
R 579 (A,30,25)
R 580 (A,33,25)
R 581 (A,32,25)

RS1/16SS471J
RS1/16SS221J
RS1/16SS221J
RS1/16SS221J
RS1/16SS221J

R 443 (B,117,61)

RS1/16SS0R0J

R 582 (A,34,25)

RS1/16SS221J

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5		6		7		8		
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>		
R 591	(A,48,93)	RS1/16SS562J		R 666	(A,24,41)	RS1/16SS221J		
R 592	(A,49,97)	RS1/16SS332J		R 667	(B,31,41)	RS1/16SS221J		
R 593	(A,81,45)	RS1/16SS471J		R 668	(B,30,41)	RS1/16SS221J		
R 594	(A,79,45)	RS1/16SS471J						A
				R 669	(A,24,39)	RS1/16SS104J		
R 595	(A,50,90)	RS1/16SS222J		R 670	(B,32,41)	RS1/16SS221J		
R 601	(A,33,57)	RS1/16SS221J		R 673	(B,30,33)	RS1/16SS223J		
R 602	(A,31,57)	RS1/16SS221J		R 674	(B,30,34)	RS1/16SS223J		
R 603	(A,32,57)	RS1/16SS221J						
R 604	(B,52,44)	RS1/16SS473J		R 675	(B,30,35)	RS1/10SR0R0J		
				R 676	(A,55,55)	RS1/16SS222J		
R 606	(A,63,52)	RS1/16SS473J		R 677	(A,37,27)	RS1/16SS0R0J		
R 607	(A,61,52)	RS1/16SS473J		R 679	(A,24,42)	RS1/16SS473J		
R 608	(B,60,39)	RS1/16SS104J		R 680	(A,24,40)	RS1/16SS104J		
R 609	(B,50,40)	RS1/16SS104J						
				R 681	(A,55,52)	RS1/16SS472J		
R 610	(B,50,42)	RS1/16SS104J		R 682	(A,51,27)	RS1/16SS222J		
R 611	(A,55,46)	RS1/16SS104J		R 683	(B,41,56)	RS1/16SS222J		B
R 612	(B,52,29)	RS1/16SS0R0J		R 684	(A,44,58)	RS1/16SS0R0J		
R 613	(B,55,35)	RS1/10SR0R0J		R 685	(A,45,58)	RS1/16SS0R0J		
R 614	(A,55,39)	RS1/16SS100J						
				R 687	(A,48,27)	RS1/16SS222J		
R 615	(B,48,49)	RS1/10SR0R0J		R 688	(B,47,27)	RS1/16SS473J		
R 616	(B,52,36)	RS1/16SS104J		R 689	(A,45,25)	RS1/16SS154J		
R 617	(B,54,38)	RS1/16SS102J		R 690	(B,58,48)	RS1/16SS471J		
R 618	(B,52,42)	RS1/16SS473J		R 691	(B,58,47)	RS1/16SS471J		
R 620	(B,54,43)	RS1/16SS681J						
				R 695	(A,34,27)	RS1/16SS0R0J		
R 621	(B,54,42)	RS1/16SS273J		R 697	(B,82,23)	RS1/16SS104J		
R 622	(A,58,48)	RS1/16SS473J		R 698	(B,83,23)	RS1/16SS224J		C
R 623	(A,54,33)	RS1/16SS101J		R 699	(A,54,31)	RS1/16SS101J		
R 624	(B,49,50)	RS1/16SS472J		R 700	(A,52,22)	RS1/16SS101J		
R 625	(B,49,51)	RS1/16SS472J						
				R 701	(A,55,47)	RS1/16SS0R0J		
R 626	(A,55,53)	RS1/16SS473J		R 702	(A,57,48)	RS1/16SS0R0J		
R 627	(B,51,27)	RS1/16SS473J		R 703	(A,55,50)	RS1/16SS0R0J		
R 628	(B,52,27)	RS1/16SS473J		R 704	(A,54,52)	RS1/16SS0R0J		
R 629	(B,48,27)	RS1/16SS472J		R 705	(A,24,47)	RS1/16SS0R0J		
R 630	(B,49,27)	RS1/16SS472J						
				R 706	(B,72,18)	RS1/16SS472J		
R 631	(A,50,27)	RS1/16SS471J		R 707	(B,70,24)	RS1/16SS472J		
R 632	(A,49,27)	RS1/16SS471J		R 729	(B,78,17)	RS1/16SS222J		
R 633	(B,49,52)	RS1/16SS473J		R 738	(B,80,17)	RS1/16SS222J		D
R 634	(B,48,52)	RS1/16SS473J		R 761	(A,118,119)	RS1/16SS223J		
R 635	(B,47,52)	RS1/16SS473J						
				R 762	(A,118,117)	RS1/16SS223J		
R 636	(A,48,57)	RS1/16SS473J		R 781	(A,29,114)	RS1/16SS390J		
R 638	(A,42,58)	RS1/16SS104J		R 782	(A,43,114)	RS1/16SS390J		
R 639	(B,43,32)	RS1/16SS103J		R 783	(A,27,114)	RS1/16SS390J		
R 640	(B,42,57)	RS1/16SS103J		R 784	(A,38,114)	RS1/16SS390J		
R 641	(B,42,29)	RS1/16SS104J						
				R 785	(A,33,114)	RS1/16SS390J		
R 642	(B,42,56)	RS1/16SS103J		R 786	(A,45,114)	RS1/16SS390J		
R 644	(A,40,58)	RS1/16SS471J		R 787	(A,30,114)	RS1/16SS223J		
R 647	(B,41,57)	RS1/16SS681J		R 788	(A,41,114)	RS1/16SS223J		
R 652	(A,46,58)	RS1/16SS221J		R 789	(A,25,114)	RS1/16SS223J		E
R 653	(B,38,52)	RS1/16SS182J						
				R 790	(A,39,114)	RS1/16SS223J		
R 654	(A,39,58)	RS1/16SS221J		R 791	(A,31,114)	RS1/16SS223J		
R 655	(B,37,52)	RS1/16SS182J		R 792	(A,46,114)	RS1/16SS223J		
R 656	(A,38,25)	RS1/10SR0R0J		R 793	(B,33,111)	RS1/16SS472J		
R 657	(A,38,58)	RS1/16SS221J		R 794	(B,39,111)	RS1/16SS472J		
R 658	(B,37,54)	RS1/10SR0R0J						
				R 795	(B,46,111)	RS1/16SS472J		
R 659	(A,35,27)	RS1/16SS473J		R 796	(B,41,111)	RS1/16SS472J		
R 660	(B,37,32)	RS1/16SS473J		R 797	(B,31,111)	RS1/16SS472J		
R 661	(B,35,55)	RS1/16SS473J		R 798	(B,25,111)	RS1/16SS472J		
R 662	(A,34,57)	RS1/16SS473J		R 811	(A,144,16)	RS1/16SS102J		F
R 663	(A,34,61)	RS1/16SS473J						
				R 812	(A,144,14)	RS1/16SS473J		
R 664	(A,29,27)	RS1/16SS104J		R 821	(A,149,14)	RS1/16SS473J		
R 665	(B,29,27)	RS1/16SS104J		R 822	(A,151,14)	RS1/16SS104J		

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	<u>Circuit Symbol and No.</u>			<u>Part No.</u>			<u>Circuit Symbol and No.</u>			<u>Part No.</u>	
	R 823	(A,148,10)		RS1/16SS473J			R 909	(B,21,72)		RS1/16SS103J	
	R 824	(A,148,12)		RS1/16SS104J			R 910	(B,26,68)		RS1/10SR103J	
A	R 825	(A,145,14)		RS1/16SS122J			R 911	(B,22,77)		RS1/16SS103J	
	R 826	(A,151,15)		RS1/16SS152J			R 912	(B,22,78)		RS1/16SS103J	
	R 831	(A,141,113)		RS1/16SS681J			R 913	(B,25,79)		RS1/10SR103J	
	R 832	(A,140,113)		RS1/16SS681J			R 919	(A,18,30)		RS1/16SS680J	
	R 833	(A,142,113)		RS1/16SS681J			R 920	(A,18,31)		RS1/16SS680J	
	R 836	(B,129,100)		RS1/16SS0R0J			R 921	(A,18,32)		RS1/16SS680J	
	R 837	(B,117,101)		RS1/16SS0R0J			R 922	(A,18,33)		RS1/16SS680J	
	R 839	(B,124,116)		RS1/16SS101J			R 923	(B,44,51)		RS1/16SS0R0J	
	R 840	(B,122,101)		RS1/16SS101J			R 924	(B,42,51)		RS1/16SS0R0J	
	R 841	(B,131,109)		RS1/16SS0R0J			R 925	(B,46,51)		RS1/16SS0R0J	
B	R 842	(B,118,116)		RS1/16SS0R0J			R 926	(A,32,78)		RS1/10SR0R0J	
	R 843	(B,116,116)		RS1/16SS224J			R 930	(A,24,74)		RS1/16SS102J	
	R 844	(B,119,117)		RS1/16SS4702D			R 931	(A,20,73)		RS1/16SS102J	
	R 845	(B,113,105)		RS1/16SS152J			R 932	(A,26,73)		RS1/16SS0R0J	
	R 846	(B,114,106)		RS1/16SS3302D			R 934	(A,25,75)		RS1/10SR0R0J	
	R 847	(B,113,107)		RS1/16SS8201D			R 952	(B,166,93)		RS1/16SS103J	
	R 848	(B,115,104)		RS1/16SS752J			R 953	(B,157,103)		RS1/16SS101J	
	R 849	(A,129,103)	0.056 ohm	ACN7160			R 954	(B,155,104)		RS1/16SS101J	
	R 850	(B,120,104)		RS1/16SS0R0J			R 955	(B,163,92)		RS1/16SS103J	
	R 851	(B,121,117)		RS1/16SS394J			R 956	(B,162,92)		RS1/16SS103J	
C	R 852	(B,121,116)		RS1/16SS204J			R 957	(B,160,91)		RS1/16SS221J	
	R 855	(B,114,107)		RS1/16SS0R0J			R 958	(B,159,93)		RS1/16SS221J	
	R 856	(B,113,106)		RS1/16SS0R0J			R 960	(B,154,98)		RS1/16SS6801D	
	R 857	(A,141,108)		RS1/16SS681J			R 961	(B,165,92)		RS1/16SS101J	
	R 858	(A,143,108)		RS1/16SS681J			R 962	(B,166,103)		RS1/16SS103J	
	R 860	(B,115,101)		RS1/16SS224J			R 964	(B,155,94)		RS1/10SR0R0J	
	R 861	(B,118,102)		RS1/16SS4702D			R 965	(B,150,100)		RS1/10SR0R0J	
	R 862	(B,112,90)		RS1/16SS152J			R 1001	(A,164,54)		RS1/16SS330J	
	R 863	(B,113,91)		RS1/16SS3302D			R 1002	(A,166,55)		RS1/16SS330J	
	R 864	(B,111,93)		RS1/16SS8201D			R 1003	(A,159,55)		RS1/16SS330J	
D	R 865	(B,115,89)		RS1/16SS752J			R 1004	(A,156,55)		RS1/16SS330J	
	R 866	(A,142,108)		RS1/16SS681J			R 1005	(A,166,54)		RS1/16SS330J	
	R 867	(A,133,95)	0.056 ohm	ACN7160			R 1006	(A,164,53)		RS1/16SS330J	
	R 868	(B,119,89)		RS1/16SS0R0J			R 1007	(A,159,54)		RS1/16SS330J	
	R 869	(B,120,102)		RS1/16SS394J			R 1008	(A,157,54)		RS1/16SS330J	
	R 870	(B,120,101)		RS1/16SS204J			R 1009	(A,166,53)		RS1/16SS330J	
	R 872	(B,126,16)		RS1/16SS0R0J			R 1010	(A,164,52)		RS1/16SS330J	
	R 873	(B,113,92)		RS1/16SS0R0J			R 1011	(A,159,53)		RS1/16SS330J	
	R 874	(B,120,36)		RS1/16SS101J			R 1012	(A,157,71)		RS1/16SS105J	
	R 875	(B,117,36)		RS1/16SS101J			R 1013	(B,127,68)		RS1/10SR0R0J	
E	R 877	(B,113,36)		RS1/16SS0R0J			R 1014	(A,158,53)		RS1/16SS330J	
	R 879	(B,106,36)		RS1/16SS220J			R 1015	(B,128,60)		RS1/10SR0R0J	
	R 880	(B,104,36)		RS1/16SS101J			R 1016	(A,166,52)		RS1/16SS330J	
	R 881	(B,101,36)		RS1/16SS101J			R 1017	(A,166,51)		RS1/16SS330J	
	R 882	(B,126,14)		RS1/16SS0R0J			R 1018	(B,166,70)		RS1/16SS105J	
	R 883	(B,120,39)		RAB4C223J			R 1019	(B,139,66)		RS1/10SR0R0J	
	R 884	(B,115,39)		RAB4C223J			R 1021	(A,164,51)		RS1/16SS330J	
	R 885	(B,119,42)		RS1/16SS102J			R 1022	(A,157,69)		RS1/16SS102J	
	R 886	(B,124,36)		RS1/16SS681J			R 1023	(A,159,52)		RS1/16SS330J	
	R 887	(B,124,38)		RS1/16SS103J			R 1024	(B,163,69)		RS1/16SS331J	
F	R 889	(B,112,91)		RS1/16SS0R0J			R 1025	(A,158,69)		RS1/16SS220J	
	R 901	(A,22,74)		RS1/16SS103J			R 1026	(B,162,69)		RS1/16SS220J	
	R 902	(A,23,74)		RS1/16SS103J			R 1027	(A,158,52)		RS1/16SS330J	
	R 903	(B,22,66)		RS1/10SR681J			R 1028	(A,162,72)		RS1/10SR0R0J	
	R 904	(A,18,45)		RS1/16SS680J			R 1029	(B,162,72)		RS1/10SR0R0J	
	R 905	(A,18,46)		RS1/16SS680J			R 1030	(B,148,72)		RS1/16SS221J	
	R 907	(A,18,47)		RS1/16SS473J			R 1031	(B,147,71)		RS1/16SS221J	
	R 908	(B,22,69)		RS1/16SS103J			R 1034	(A,164,50)		RS1/16SS330J	

5		6		7		8		
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>		
R 1035	(A,145,72)	RS1/16SS101J		R 1108	(B,147,40)	RS1/16SS100J		
R 1036	(A,147,72)	RS1/16SS101J		R 1109	(B,148,39)	RS1/16SS100J		
R 1037	(A,146,72)	RS1/16SS101J		R 1110	(B,146,39)	RS1/16SS100J		A
R 1038	(A,164,49)	RS1/16SS330J		R 1111	(B,138,39)	RS1/16SS100J		
R 1039	(A,159,88)	RS1/16SS101J		R 1112	(B,149,40)	RS1/16SS100J		
R 1040	(A,161,88)	RS1/16SS101J		R 1113	(B,141,39)	RS1/16SS100J		
R 1041	(A,160,88)	RS1/16SS101J		R 1114	(B,151,71)	RS1/16SS331J		
R 1042	(A,159,51)	RS1/16SS330J		R 1115	(B,151,70)	RS1/16SS331J		
R 1043	(A,158,51)	RS1/16SS330J		R 1116	(B,152,60)	RS1/16SS121J		
R 1044	(B,146,70)	RS1/10SR0R0J		R 1117	(A,148,67)	RS1/16SS472J		
R 1045	(B,144,70)	RS1/10SR0R0J		R 1118	(A,147,68)	RS1/16SS472J		
R 1046	(A,136,68)	RS1/16SS5601D		R 1119	(A,150,70)	RS1/16SS473J		
R 1047	(A,134,68)	RS1/16SS5601D		R 1120	(A,151,72)	RS1/16SS473J		
R 1048	(A,130,66)	RS1/16SS681J		R 1121	(A,152,68)	RS1/16SS473J		B
R 1050	(A,121,60)	RS1/16SS103J		R 1122	(A,166,47)	RS1/16SS561J		
R 1051	(A,122,63)	RS1/16SS103J		R 1123	(B,158,65)	RS1/16SS471J		
R 1052	(A,121,63)	RS1/16SS103J		R 1124	(B,154,66)	RS1/16SS471J		
R 1053	(A,122,61)	RS1/16SS103J		R 1126	(B,156,74)	RS1/16SS471J		
R 1054	(A,121,59)	RS1/16SS103J		R 1127	(B,148,69)	RS1/16SS472J		
R 1055	(A,121,62)	RS1/16SS103J		R 1128	(B,148,17)	RS1/16SS103J		
R 1056	(A,121,58)	RS1/16SS103J		R 1129	(B,130,48)	RS1/16SS103J		
R 1057	(A,122,58)	RS1/16SS103J		R 1130	(B,132,48)	RS1/16SS103J		
R 1058	(A,122,59)	RS1/16SS103J		R 1132	(A,127,55)	RS1/16SS0R0J		
R 1059	(A,121,61)	RS1/16SS103J		R 1133	(A,125,55)	RS1/16SS0R0J		
R 1061	(A,129,58)	RS1/16SS152J		R 1134	(A,127,53)	RS1/16SS0R0J		C
R 1062	(A,122,60)	RS1/16SS103J		R 1135	(A,125,54)	RS1/16SS0R0J		
R 1063	(A,123,55)	RS1/16SS0R0J		R 1136	(A,127,54)	RS1/16SS0R0J		
R 1064	(A,166,50)	RS1/16SS330J		R 1137	(A,158,47)	RS1/16SS561J		
R 1065	(A,159,50)	RS1/16SS330J		R 1138	(A,164,45)	RS1/16SS561J		
R 1066	(A,158,50)	RS1/16SS330J		R 1139	(A,125,53)	RS1/16SS0R0J		
R 1068	(B,129,49)	RS1/16SS101J		R 1140	(A,150,68)	RS1/16SS471J		
R 1069	(B,132,49)	RS1/16SS101J		R 1141	(A,149,68)	RS1/16SS471J		
R 1070	(A,158,57)	RS1/16SS102J		R 1142	(A,155,47)	RS1/16SS101J		
R 1071	(A,131,48)	RS1/16SS101J		R 1145	(B,128,56)	RS1/16SS0R0J		
R 1072	(A,131,49)	RS1/16SS101J		R 1146	(B,130,56)	RS1/16SS0R0J		
R 1073	(B,130,49)	RS1/16SS101J		R 1147	(B,127,56)	RS1/16SS0R0J		D
R 1075	(A,131,47)	RS1/16SS101J		R 1148	(B,128,57)	RS1/16SS0R0J		
R 1077	(B,135,48)	RS1/16SS0R0J		R 1149	(B,131,56)	RS1/16SS0R0J		
R 1079	(B,139,51)	RS1/16SS82R0D		R 1150	(B,129,56)	RS1/16SS0R0J		
R 1080	(B,137,48)	RS1/16SS82R0D		R 1159	(A,158,64)	RS1/16SS331J		
R 1086	(A,159,49)	RS1/16SS330J		R 1160	(A,158,65)	RS1/16SS331J		
R 1087	(B,116,63)	RS1/16SS0R0J		R 1161	(A,156,64)	RS1/16SS331J		
R 1088	(B,118,59)	RS1/16SS0R0J		R 1162	(A,158,63)	RS1/16SS331J		
R 1089	(A,132,69)	RS1/16SS102J		R 1163	(A,158,62)	RS1/16SS331J		
R 1090	(A,131,69)	RS1/16SS102J		R 1164	(A,158,61)	RS1/16SS331J		
R 1093	(A,156,63)	RS1/16SS331J		R 1165	(A,156,59)	RS1/16SS331J		
R 1094	(A,156,62)	RS1/16SS331J		R 1166	(A,156,65)	RS1/16SS331J		E
R 1095	(A,158,49)	RS1/16SS330J		R 1167	(B,139,39)	RS1/16SS100J		
R 1096	(A,159,48)	RS1/16SS561J		R 1168	(B,142,38)	RS1/16SS100J		
R 1097	(A,122,62)	RS1/16SS0R0J		R 1169	(B,137,39)	RS1/16SS100J		
R 1098	(B,151,50)	RS1/16SS0R0J		R 1170	(B,139,38)	RS1/16SS100J		
R 1099	(A,145,41)	RS1/16SS100J		R 1171	(B,143,39)	RS1/16SS100J		
R 1100	(A,144,41)	RS1/16SS100J		R 1172	(B,141,38)	RS1/16SS100J		
R 1101	(B,145,39)	RS1/16SS100J		R 1173	(A,142,41)	RS1/16SS100J		
R 1102	(B,140,39)	RS1/16SS100J		R 1174	(A,143,41)	RS1/16SS100J		
R 1103	(A,143,39)	RS1/16SS100J		R 1175	(A,127,52)	RS1/16SS0R0J		
R 1104	(B,143,38)	RS1/16SS100J		R 1176	(B,153,64)	RS1/16SS471J		F
R 1105	(B,140,38)	RS1/16SS100J		R 1177	(A,131,54)	RS1/16SS103J		
R 1106	(A,158,48)	RS1/16SS330J		R 1178	(B,159,74)	RS1/16SS101J		
R 1107	(B,149,39)	RS1/16SS100J		R 1179	(A,164,46)	RS1/16SS561J		

	1		2	3		4
	<u>Circuit Symbol and No.</u>		<u>Part No.</u>	<u>Circuit Symbol and No.</u>		<u>Part No.</u>
	R 1180	(A,166,46)	RS1/16SS561J	R 1327	(B,90,83)	RS1/16SS822J
	R 1181	(A,159,47)	RS1/16SS561J	R 1328	(B,94,79)	RS1/16SS0R0J
A	R 1182	(A,166,44)	RS1/16SS561J	R 1330	(B,95,67)	RS1/16SS224J
	R 1183	(A,166,45)	RS1/16SS561J	R 1331	(B,90,63)	RS1/16SS822J
	R 1184	(A,164,44)	RS1/16SS561J	R 1332	(B,87,66)	RS1/10SR0R0J
	R 1185	(A,158,46)	RS1/16SS561J	R 1333	(B,93,65)	RS1/16SS1101D
	R 1186	(A,164,43)	RS1/16SS561J	R 1334	(B,94,65)	RS1/16SS2701D
■	R 1187	(A,158,45)	RS1/16SS561J	R 1335	(B,92,65)	RS1/16SS2702D
	R 1188	(A,159,46)	RS1/16SS561J	R 1336	(B,93,63)	RS1/16SS511J
	R 1189	(A,158,44)	RS1/16SS561J	R 1337	(B,97,74)	RS1/16SS101J
	R 1190	(A,159,45)	RS1/16SS561J	R 1338	(B,97,67)	RS1/16SS101J
	R 1191	(A,131,62)	RS1/16SS330J	R 1339	(B,95,63)	RS1/16SS0R0J
B	R 1192	(B,133,57)	RS1/16SS472J	R 1340	(B,96,79)	RS1/16SS204J
	R 1193	(B,135,58)	RS1/16SS102J	R 1341	(B,97,79)	RS1/16SS394J
	R 1194	(A,156,67)	RS1/16SS103J	R 1342	(B,97,76)	RS1/16SS101J
	R 1196	(A,158,60)	RS1/16SS331J	R 1343	(B,96,74)	RS1/16SS103J
	R 1197	(A,123,51)	RS1/16SS121J	R 1344	(B,96,76)	RS1/16SS103J
■	R 1198	(A,121,52)	RS1/16SS121J	R 1361	(A,80,60)	RS1/16SS0R0J
	R 1199	(A,123,49)	RS1/16SS121J	R 1362	(A,81,60)	RS1/16SS102J
	R 1200	(A,121,50)	RS1/16SS121J	R 1365	(B,83,32)	RS1/16SS102J
	R 1201	(B,128,26)	RS1/16SS82R0D	R 1366	(B,83,31)	RS1/16SS102J
	R 1202	(B,128,24)	RS1/16SS82R0D	R 1367	(B,84,37)	RS1/16SS0R0J
C	R 1203	(A,123,50)	RS1/16SS121J	R 1372	(A,124,16)	RS1/16SS102J
	R 1204	(B,155,26)	RS1/16SS82R0D	R 1383	(B,100,104)	RS1/16SS102J
	R 1205	(B,153,24)	RS1/16SS82R0D	R 1384	(B,95,98)	RS1/16SS102J
	R 1206	(A,121,51)	RS1/16SS121J	R 1388	(B,89,89)	RS1/16SS102J
	R 1207	(B,144,44)	RS1/16SS100J	R 1389	(B,90,89)	RS1/16SS102J
■	R 1208	(B,145,44)	RS1/16SS100J	R 1396	(A,124,72)	RS1/10SR0R0J
	R 1209	(B,145,29)	RS1/16SS431J	R 1397	(A,119,85)	RS1/16SS102J
	R 1210	(A,123,48)	RS1/16SS121J	R 1399	(B,113,48)	RS1/16SS102J
	R 1211	(A,121,49)	RS1/16SS121J	R 1400	(B,111,49)	RS1/10SR681J
	R 1212	(A,123,47)	RS1/16SS121J	R 1402	(A,106,44)	RS1/16SS564J
D	R 1213	(A,121,48)	RS1/16SS121J	R 1403	(A,109,44)	RS1/16SS123J
	R 1214	(A,121,46)	RS1/16SS121J	R 1404	(A,108,44)	RS1/16SS224J
	R 1215	(A,123,46)	RS1/16SS121J	R 1405	(A,103,54)	RS1/16SS5R6J
	R 1216	(A,121,47)	RS1/16SS121J	R 1406	(A,113,48)	RS1/16SS6800D
	R 1217	(A,121,45)	RS1/16SS121J	R 1407	(A,111,47)	RS1/16SS1302D
■	R 1218	(A,123,45)	RS1/16SS121J	R 1408	(A,111,45)	RS1/16SS6801D
	R 1219	(A,121,43)	RS1/16SS121J	R 1409	(A,109,54)	RS1/16SS5R6J
	R 1220	(A,123,43)	RS1/16SS121J	R 1411	(A,104,47)	RS1/16SS102J
	R 1221	(A,121,44)	RS1/16SS121J	R 1412	(A,117,68)	RS1/16SS102J
	R 1222	(A,123,44)	RS1/16SS121J	R 1415	(A,113,49)	RS1/16SS0R0J
E	R 1223	(A,125,40)	RS1/16SS221J	R 1416	(A,103,46)	RS1/16SS471J
	R 1225	(A,123,42)	RS1/16SS121J	R 1420	(A,101,46)	RS1/16SS102J
	R 1227	(A,144,70)	RS1/16SS473J	R 1421	(A,105,45)	RS1/16SS102J
	R 1228	(B,152,54)	RS1/16SS680J	R 1422	(B,82,90)	RS1/16SS1003F
	R 1229	(A,152,67)	RS1/16SS221J	R 1423	(B,82,88)	RS1/16SS1802D
■	R 1230	(A,148,69)	RS1/16SS221J	R 1424	(B,74,93)	RS1/16SS103J
	R 1241	(B,161,63)	RS1/16SS103J	R 1425	(B,79,89)	RS1/4SA471J
	R 1242	(B,163,63)	RS1/16SS103J	R 1426	(B,79,86)	RS1/4SA471J
	R 1243	(B,163,38)	RS1/8SQ0R0J	R 1427	(B,75,97)	RS1/16SS911J
	R 1301	(A,38,71)	RS1/16SS391J	R 1431	(A,104,15)	RS1/10SR121J
F	R 1302	(A,49,79)	RS1/16SS911J	R 1432	(A,106,9)	RS1/16SS473J
	R 1312	(A,24,33)	RS1/16SS0R0J	R 1433	(A,98,17)	RS1/16SS220J
	R 1321	(B,95,83)	RS1/16SS0R0J	R 1434	(A,68,60)	RS1/16SS221J
	R 1322	(B,93,83)	RS1/16SS561J	R 1435	(A,67,60)	RS1/16SS221J
	R 1323	(B,93,81)	RS1/16SS3302D	R 1436	(A,65,60)	RS1/16SS221J
	R 1324	(B,94,81)	RS1/16SS4301D	R 1437	(A,63,60)	RS1/16SS473J
	R 1325	(B,95,81)	RS1/16SS3601D	R 1438	(A,63,58)	RS1/16SS103J
	R 1326	(B,87,80)	RS1/10SR0R0J	R 1439	(A,65,57)	RS1/16SS0R0J

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

C 193 (B,32,99)
C 194 (B,32,98)
C 195 (B,51,89)

CKSRYB105K10
CKSRYB105K10
CKSQYB225K10

C 306 (B,48,82)
C 307 (B,48,85)
C 309 (B,46,86)

CKSRYB105K10
CKSRYB105K10
CKSSYB104K16

A

C 196 (B,45,88)
C 197 (A,37,91) 10 uF
C 198 (B,41,88)
C 199 (A,39,93) 10 uF
C 200 (B,32,92)

CKSRYB474K16
DCH1201
CKSSYB104K10
DCH1201
CKSSYB104K10

C 310 (B,33,74)
C 311 (B,32,83)
C 312 (B,32,82)
C 401 (B,168,22)
C 402 (B,166,22)

CKSSYB104K16
CKSSYB104K16
CKSSYB104K16
CKSSYB104K10
CKSSYB104K10

C 202 (B,39,105)
C 203 (A,42,106) 10 uF
C 204 (A,42,108) 10 uF
C 205 (B,50,100)
C 206 (B,50,98)

CKSRYB104K16
CCG1236
CCG1236
CCSQCH223J50
CCSQCH223J50

C 421 (A,153,76)
C 422 (A,153,79)
C 423 (A,148,72)
C 424 (A,149,81) 10 uF
C 425 (A,145,85)

CKSQYB475K6R3
CKSQYB475K6R3
CKSSYB104K10
DCH1201
CKSQYB475K6R3

B

C 210 (B,28,93)
C 212 (B,53,98)
C 213 (B,32,96)
C 233 (B,47,59)
C 234 (B,37,61)

CKSRYB105K10
CKSRYB105K10
CKSRYB105K10
CCSSCH101J50
CKSSYB105K6R3

C 426 (A,153,81)
C 427 (A,158,88)
C 428 (A,158,78) 10 uF
C 472 (A,125,85)
C 473 (B,130,91)

CKSQYB475K6R3
CKSSYB104K10
DCH1201
CKSSYB104K10
CKSSYB224K6R3

C 237 (B,39,61)
C 238 (B,52,60)
C 239 (B,53,62)
C 243 (A,59,69)
C 246 (A,55,64)

CKSRYB105K10
CCSSCH101J50
CKSRYB104K16
CKSRYB104K16
CCSSCH101J50

C 474 (B,130,92)
C 475 (B,131,91)
C 476 (B,130,88)
C 477 (B,129,93)
C 478 (B,132,94)

CKSSYB224K6R3
CKSSYB224K6R3
CKSRYB105K16
CKSRYB105K16
CKSSYB102K50

C

C 247 (A,56,59)
C 261 (B,39,69)
C 262 (B,48,70)
C 263 (B,48,79)
C 264 (B,48,84)

CKSQYB225K10
CKSRYB105K10
CKSRYB105K10
CKSRYB105K10
CKSRYB105K10

C 479 (B,131,96)
C 480 (B,135,83)
C 481 (B,132,85)
C 482 (B,132,87)
C 483 (B,131,90)

CKSRYB105K16
CKSSYB102K50
CKSRYB105K16
CKSSYB102K50
CKSSYB103K25

C 265 (B,32,78)
C 266 (B,33,75)
C 267 (B,33,76)
C 268 (B,33,77)
C 269 (B,32,79)

CKSSYB104K16
CKSSYB104K16
CKSSYB104K16
CKSSYB104K16
CKSSYB104K16

C 484 (A,127,90) 10 uF
C 485 (B,136,99)
C 486 (A,134,89) 10 uF
C 487 (B,137,99)
C 488 (B,135,79) 10 uF

DCH1201
CKSSYB104K10
DCH1201
CKSSYB104K10
DCH1201

D

C 270 (B,32,80)
C 271 (B,32,81)
C 272 (B,34,82)
C 273 (B,38,84)
C 274 (B,33,85) 10 uF

CKSSYB104K16
CKSSYB104K16
CKSSYB104K16
CKSSYB104K16
DCH1201

C 489 (B,137,82)
C 490 (A,134,85)
C 491 (B,138,82)
C 492 (B,139,99)
C 493 (B,140,82)

CKSRYB105K16
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 275 (B,40,84)
C 276 (B,37,84)
C 277 (B,38,86) 10 uF
C 279 (B,43,84)
C 280 (B,38,69)

CKSSYB104K16
CKSSYB104K16
DCH1201
CKSSYB104K16
CKSRYB105K10

C 494 (B,142,99)
C 495 (B,143,99)
C 496 (B,144,78)
C 497 (B,141,81)
C 498 (B,148,88)

CKSSYB104K10
CKSSYB104K10
CCSSCH4R0C50
CCSSCH5R0C50
CKSSYB104K10

E

C 281 (B,42,85) 10 uF
C 282 (B,41,70)
C 283 (B,43,70)
C 284 (B,44,70)
C 285 (B,46,70)

DCH1201
CKSRYB105K10
CKSRYB105K10
CKSRYB105K10
CKSRYB105K10

C 499 (B,148,89)
C 500 (B,148,85)
C 501 (A,134,87) 10 uF
C 502 (B,131,87)
C 503 (B,131,94)

CKSSYB104K10
CKSSYB103K16
DCH1201
CKSSYB103K16
CKSSYB103K16

C 286 (B,38,71)
C 287 (A,42,78)
C 288 (B,48,69)
C 289 (B,48,72)
C 290 (B,48,73)

CKSSYB104K16
CKSRYB105K10
CKSRYB105K10
CKSRYB105K10
CKSRYB105K10

C 504 (B,135,82)
C 511 (A,134,84)
C 512 (A,130,92)
C 513 (A,131,87)
C 514 (A,137,91)

CKSSYB103K16
CKSSYB103K16
CKSRYB105K10
CKSRYB105K10
CKSSYB104K10

F

C 295 (A,45,88)
C 299 (B,48,75)
C 300 (B,48,76)
C 301 (B,48,78)
C 302 (B,48,81)

CKSSYB271K50
CKSRYB105K10
CKSRYB105K10
CKSRYB105K10
CKSRYB105K10

C 521 (B,107,41)
C 522 (B,103,45)
C 523 (B,101,48)
C 524 (A,103,41)
C 526 (B,103,40)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 304 (B,33,73)
C 305 (B,33,72)

CKSSYB104K16
CKSSYB104K16

C 530 (B,90,44) 10 uF
C 531 (B,97,40)

DCH1201
CKSSYB104K10

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5		6		7		8		
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>		
C 532	(B,97,44)	CKSSYB104K10		C 848	(B,116,101)	CKSSYB102K50		
C 533	(A,99,41)	CKSSYB104K10		C 853	(A,153,119)	CKSRYB104K50		
C 571	(A,20,16) 0.1 uF	CCG1321		C 854	(A,153,114)	CKSRYB104K50		
C 572	(A,18,23) 0.1 uF	CCG1321		C 855	(B,117,90)	CKSSYB104K16		A
C 576	(A,47,24)	CCSRCH100D50		C 857	(A,144,108)	CKSSYB104K16		
C 591	(A,82,41)	CKSRYB105K10		C 858	(B,130,99) 22 uF	DCH1256		
C 592	(A,85,41)	CKSRYB105K10		C 859	(A,135,108)	XCEVW101M16		
C 593	(A,89,41)	CKSRYB105K10		C 860	(A,139,113)	CKSSYB104K16		
C 594	(A,93,41)	CKSRYB105K10		C 861	(B,114,98)	CKSSYB472K50		
C 595	(A,77,53)	CKSSYB105K6R3		C 862	(B,119,102)	CKSSYB104K16		
C 596	(A,91,41)	CKSRYB105K10		C 863	(B,113,90)	CCSSCH471J50		
C 597	(A,87,41)	CKSRYB105K10		C 864	(B,116,89)	CKSSYB222K50		
C 598	(A,84,41)	CKSRYB105K10		C 865	(B,115,90)	CCSSCH270J50		
C 599	(A,97,44)	CKSRYB105K10		C 866	(A,116,98)	XCEVW470M16		B
C 601	(A,33,59)	CCSSCH101J50		C 871	(B,118,36)	CCSSCH100D50		
C 602	(A,31,59)	CCSSCH101J50		C 872	(B,116,36)	CCSSCH100D50		
C 603	(A,32,59)	CCSSCH101J50		C 873	(B,107,36)	CCSSCH100D50		
C 604	(B,57,39)	CKSRYB105K10		C 874	(B,103,36)	CCSSCH100D50		
C 605	(A,55,40)	CCSSCH180J50		C 875	(B,102,36)	CCSSCH100D50		
C 606	(A,54,37)	CCSSCH180J50		C 876	(B,126,18)	CKSSYB104K10		
C 607	(B,51,50)	CKSSYB104K10		C 877	(B,123,36)	CKSSYB104K10		
C 608	(B,53,29)	CKSSYB104K10		C 878	(B,126,13)	CKSSYB104K10		
C 609	(B,55,37)	CKSSYB104K10		C 879	(B,117,42)	CKSSYB104K10		
C 610	(B,49,36)	CKSQYB475K6R3		C 880	(B,127,9)	CKSRYB104K16		
C 611	(A,52,27)	CKSSYB104K10		C 901	(B,21,70)	CKSQYB225K10		C
C 613	(A,39,27)	CKSSYB104K10		C 902	(B,20,73)	CKSQYB225K10		
C 614	(B,39,55)	CKSSYB104K10		C 903	(B,26,69)	CKSSYB681K50		
C 615	(B,30,36)	CKSSYB104K10		C 904	(B,19,76)	CKSQYB225K10		
C 619	(B,83,22)	CKSSYB104K10		C 905	(B,21,80)	CKSQYB225K10		
C 626	(A,43,25)	CKSSYB221K50		C 906	(B,25,78)	CKSSYB681K50		
C 702	(A,72,25)	CKSQYB475K6R3		C 907	(B,28,74)	CKSRYB104K16		
C 703	(A,70,25)	CKSQYB475K6R3		C 909	(A,17,40) 10 uF	DCH1201		
C 704	(A,93,16)	CKSRYB105K10		C 910	(A,18,51) 10 uF	DCH1201		
C 705	(B,53,27)	CKSSYB222K50		C 912	(A,18,81)	CKSSYB104K10		
C 707	(A,68,24)	CCSSCH220J50		C 913	(A,22,80)	XCEVW101M16		
C 711	(A,84,24)	CKSRYB105K10		C 918	(B,18,84)	CCSSCK2R0C50		D
C 761	(A,141,118)	CKSRYB104K50		C 919	(B,21,60)	CCSSCH220J50		
C 781	(A,29,112) 4.7 uF	CCG1201		C 951	(B,169,102) 10 uF	DCH1201		
C 782	(A,43,112) 4.7 uF	CCG1201		C 952	(B,155,98)	CKSSYB104K10		
C 783	(A,27,112) 4.7 uF	CCG1201		C 953	(B,163,104)	CKSSYB104K10		
C 784	(A,38,112) 4.7 uF	CCG1201		C 954	(B,161,104)	CKSSYB104K10		
C 785	(A,33,112) 4.7 uF	CCG1201		C 955	(B,167,98)	CKSSYB103K16		
C 786	(A,45,112) 4.7 uF	CCG1201		C 956	(B,155,96)	CKSSYB103K16		
C 788	(A,22,113)	CKSSYB102K50		C 957	(B,153,96) 10 uF	DCH1201		
C 831	(B,122,115)	CKSSYB104K16		C 958	(B,154,96)	CKSSYB103K16		
C 832	(B,125,103) 10 uF	CCG1236		C 959	(B,160,92)	CKSSYB103K16		
C 833	(B,114,109)	CKSRYB105K10		C 960	(B,155,101) 10 uF	DCH1201		E
C 834	(B,117,116)	CKSSYB102K50		C 961	(B,167,94)	CKSSYB102K50		
C 835	(B,114,113)	CKSSYB472K50		C 1002	(A,157,73)	CCSSCH100D50		
C 836	(B,120,117)	CKSSYB104K16		C 1003	(B,168,68)	CCSSCH120J50		
C 837	(B,114,105)	CCSSCH471J50		C 1004	(B,130,68) 4.7 uF	CCG1201		
C 838	(B,116,104)	CKSSYB222K50		C 1005	(B,128,65) 4.7 uF	CCG1201		
C 839	(B,116,105)	CCSSCH270J50		C 1006	(B,131,59) 4.7 uF	CCG1201		
C 840	(A,116,108)	XCEVW470M16		C 1007	(B,131,60) 4.7 uF	CCG1201		
C 841	(B,118,105)	CKSSYB104K16		C 1008	(B,132,64) 4.7 uF	CCG1201		
C 843	(B,129,104) 22 uF	DCH1256		C 1009	(B,136,66)	CKSSYB104K10		
C 844	(B,122,100)	CKSSYB104K16		C 1010	(B,136,64)	CKSSYB104K10		
C 845	(B,122,89) 10 uF	CCG1236		C 1011	(B,135,60)	CKSSYB104K10		F
C 846	(A,135,100)	XCEVW101M16		C 1012	(B,140,62)	CKSSYB104K10		
C 847	(B,113,94)	CKSRYB105K10		C 1013	(B,139,62)	CKSSYB104K10		

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

C 1014 (B,152,58)
C 1015 (A,155,69)
C 1016 (B,163,67)

CCSSCH180J50
CCSSCH100D50
CCSSCH6R0D50

C 1079 (B,144,51)
C 1080 (B,147,54)
C 1081 (B,145,51)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

A

C 1017 (B,133,68)
C 1018 (B,135,64)
C 1019 (B,134,59)
C 1020 (B,133,61)
C 1021 (B,134,63)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1082 (B,147,53)
C 1083 (B,138,53)
C 1084 (B,145,59)
C 1085 (B,138,54)
C 1087 (B,144,59)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1026 (A,161,73)
C 1027 (B,163,72)
C 1028 (B,147,66)
C 1029 (B,147,67) 4.7 uF
C 1030 (B,143,67) 4.7 uF

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CCG1201
CCG1201

C 1088 (B,141,59)
C 1089 (B,138,56)
C 1090 (B,138,55)
C 1093 (B,145,61) 4.7 uF
C 1094 (B,161,72)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CCG1201
CKSSYB104K10

B

C 1031 (B,143,66)
C 1032 (B,141,62)
C 1033 (B,142,62)
C 1034 (A,129,67)
C 1035 (A,125,65)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CCSSCH120J50
CCSSCH8R0D50

C 1095 (B,138,51)
C 1096 (B,138,48)
C 1097 (B,136,48)
C 1098 (B,145,48)
C 1099 (B,141,46) 10 uF

CKSSYB104K10
CKSSYB104K10
CKSSYB105K6R3
CKSSYB105K6R3
DCH1201

C 1036 (B,147,62)
C 1037 (B,148,62)
C 1038 (B,149,62)
C 1039 (B,138,60)
C 1040 (B,136,59)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1105 (B,120,49) 10 uF
C 1108 (A,129,41)
C 1201 (B,129,26)
C 1202 (B,129,24)
C 1203 (B,128,33)

DCH1201
CCSSCH330J50
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C

C 1041 (A,129,60)
C 1042 (B,150,59)
C 1043 (B,150,58)
C 1044 (B,150,57)
C 1045 (A,125,57)

CCSSCH100D50
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CCSSCH9R0D50

C 1204 (B,128,31)
C 1205 (B,131,31)
C 1206 (B,128,30)
C 1207 (B,128,28)
C 1208 (B,131,28)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1046 (B,150,56)
C 1047 (B,136,56)
C 1048 (B,150,55)
C 1049 (B,136,55)
C 1050 (B,136,54)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1209 (A,126,26)
C 1210 (A,128,19)
C 1211 (B,135,33)
C 1212 (B,135,31)
C 1213 (B,133,31)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

D

C 1051 (B,136,53)
C 1052 (B,136,52)
C 1053 (B,150,52)
C 1054 (B,136,51)
C 1055 (B,150,51)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1214 (B,135,30)
C 1215 (B,137,29)
C 1216 (B,133,28)
C 1217 (A,137,26)
C 1218 (A,137,23)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1056 (B,136,50)
C 1057 (B,150,50)
C 1058 (B,126,48) 4.7 uF
C 1059 (B,150,46)
C 1060 (B,148,48)

CKSSYB104K10
CKSSYB104K10
CCG1201
CKSSYB104K10
CKSSYB104K10

C 1219 (B,154,26)
C 1220 (B,154,24)
C 1221 (B,150,33)
C 1222 (B,150,31)
C 1223 (B,153,31)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

E

C 1061 (B,147,48)
C 1062 (B,144,48)
C 1063 (B,143,48)
C 1064 (B,142,48)
C 1065 (B,141,48)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1224 (B,150,30)
C 1225 (B,151,28)
C 1226 (B,152,27)
C 1227 (A,148,25)
C 1228 (A,150,18)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1066 (B,140,48)
C 1067 (B,139,48)
C 1068 (B,134,46)
C 1069 (B,147,50)
C 1070 (B,146,48)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1229 (B,157,33)
C 1230 (B,157,31)
C 1231 (B,155,31)
C 1232 (B,157,30)
C 1233 (B,157,28)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

F

C 1071 (B,147,57)
C 1072 (B,140,59)
C 1073 (B,138,57)
C 1074 (B,140,51)
C 1075 (B,147,56)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 1234 (B,156,28)
C 1235 (A,159,26)
C 1236 (A,159,23)
C 1237 (B,130,24)
C 1238 (B,155,24)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB105K6R3
CKSSYB105K6R3

C 1076 (B,141,51)
C 1078 (B,147,55)

CKSSYB104K10
CKSSYB104K10

C 1239 (B,131,23) 10 uF
C 1240 (B,157,25) 10 uF

DCH1201
DCH1201

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5	6	7	8	
<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	
C 1241 (B,161,38)	CKSSYB104K10	C 1403 (A,108,43)	CKSSYB392K50	A
C 1301 (A,38,64)	CKSSYB103K16	C 1404 (A,107,44)	CKSSYB104K10	
C 1302 (A,54,76)	CKSSYB104K16	C 1405 (A,117,54) 10 uF	DCH1201	
C 1303 (A,22,69)	XCEVW470M16	C 1406 (A,117,56) 10 uF	DCH1201	
C 1304 (A,31,65) 0.1 uF	CCG1321	C 1407 (A,102,51) 10 uF	DCH1201	B
C 1306 (A,45,68)	XCEVW331M16	C 1408 (A,105,54)	CKSRYB681K50	
C 1307 (A,119,66)	CKSRYB102K50	C 1409 (A,111,48)	CCSSCH221J50	
C 1311 (A,168,83) 0.1 uF	CCG1321	C 1410 (A,117,53) 10 uF	DCH1201	
C 1312 (A,168,93)	XCEVW101M16	C 1411 (A,112,54)	CKSRYB103K50	C
C 1313 (A,169,78)	CKSYB105K35	C 1412 (A,109,74) 10 uF	DCH1201	
C 1314 (A,165,77)	CKSYB475K16	C 1414 (A,119,71) 10 uF	DCH1201	
C 1321 (B,106,73)	CKSSYB102K50	C 1415 (A,121,71) 10 uF	DCH1201	
C 1322 (A,97,77)	CKSSYB102K50	C 1416 (A,112,51) 10 uF	DCH1201	D
C 1323 (A,98,77)	CKSSYB104K16	C 1417 (A,102,49) 10 uF	DCH1201	
C 1324 (A,99,77) 10 uF	DCH1201	C 1421 (B,79,101)	CKSSYB104K16	
C 1325 (A,102,77) 10 uF	DCH1201	C 1431 (A,100,15)	CKSSYB102K50	
C 1326 (A,104,76) 47 uF	CCG1233	C 1432 (A,98,9)	XCEVW101M16	E
C 1327 (A,82,76) 10 uF	CCG1236	C 1433 (A,105,8)	CKSRYB105K10	
C 1328 (A,79,76) 10 uF	CCG1236	C 1434 (A,101,17)	CKSSYB104K10	
C 1329 (B,91,82)	CCSSCH561J50	C 1435 (A,111,27)	CKSSYB103K16	
C 1330 (B,93,79)	CKSSYB104K10	C 1436 (A,78,65)	XCEVW100M16	F
C 1331 (B,90,82)	CKSSYB822K16	C 1437 (A,75,60)	CKSSYB103K16	
C 1332 (B,90,79)	CCSSCH8R0D50	C 1441 (B,69,84)	CKSSYB104K16	
C 1333 (B,84,73)	CKSYB105K35	C 1444 (B,68,67)	CKSSYB103K16	
C 1334 (B,88,80)	CKSSYB104K16	C 1445 (B,68,76) 4.7 uF	CCG1222	A
C 1335 (B,88,67)	CKSSYB104K16	C 1446 (B,68,69)	CKSRYB104K16	
C 1336 (B,90,67)	CCSSCH8R0D50	C 1447 (B,65,65)	CKSSYB104K16	
C 1337 (B,96,67)	CKSSYB103K16	C 1448 (B,64,64) 4.7 uF	CCG1222	
C 1338 (B,89,65)	CKSSYB103K16	C 1449 (B,70,69)	CCSSCH271J50	B
C 1339 (B,93,66)	CKSRYB105K10	C 1450 (B,62,65)	CKSSYB104K16	
C 1340 (B,91,65)	CCSSCH471J50	C 1463 (A,25,91)	XCEVW221M10	
C 1341 (A,66,82)	CKSSYB102K50	C 1464 (A,30,81)	CKSQYB225K10	
C 1342 (A,68,82) 10 uF	CCG1236	C 1465 (A,31,84)	CKSRYB105K10	C
C 1343 (A,79,70) 10 uF	CCG1236	C 1471 (A,22,53) 10 uF	DCH1201	
C 1344 (A,59,83) 3 300 uF/16 V	CCH2027	C 1472 (B,20,48) 2.2 uF	CCG1218	
C 1345 (A,82,70) 10 uF	CCG1236	C 1473 (A,23,62) 10 uF	DCH1201	
C 1347 (A,104,69) 47 uF	CCG1233	C 1474 (B,21,42)	CKSRYB105K10	D
C 1348 (A,99,69) 10 uF	DCH1165	C 1475 (B,24,42) 2.2 uF	CCG1218	
C 1349 (A,102,69) 10 uF	DCH1165	C 1477 (B,27,47)	CKSRYB105K10	
C 1350 (A,98,69)	CKSSYB104K16	C 1601 (B,150,75)	CKSSYB103K16	
C 1351 (A,97,69)	CKSSYB102K50	C 1602 (B,149,74)	CKSRYB105K10	E
C 1352 (A,96,69)	CCSSCH101J50	C 1603 (B,156,85)	CKSSYB105K6R3	
C 1361 (A,81,58)	CKSRYB105K10	C 1604 (B,153,85)	CKSRYB103K50	
C 1362 (A,91,58)	CKSRYB105K10	C 1606 (A,45,95)	CKSRYB104K16	
C 1363 (A,93,59) 10 uF	DCH1201	C 1607 (A,41,98)	CKSRYB104K16	F
C 1365 (A,95,21)	CKSRYB104K16	C 1608 (A,49,101)	CKSRYB104K16	
C 1366 (A,90,23)	CEAT471M16	C 1611 (A,53,61)	CKSQYB225K10	
C 1371 (A,117,18)	CKSQYB475K6R3	C 1612 (A,51,61)	CKSQYB225K10	
C 1372 (A,121,18)	CKSQYB475K6R3	C 1618 (A,50,62)	CKSQYB225K10	A
C 1381 (B,103,92)	CKSQYB475K6R3	C 1619 (A,56,73)	CKSQYB225K10	
C 1382 (B,94,100)	CKSQYB475K6R3	C 1620 (B,23,60)	CKSRYB105K10	
C 1385 (B,97,101)	CKSRYB105K10	C 2001 (B,22,22)	CKSRYB104K50	
C 1386 (B,97,103)	CKSRYB105K10	C 2011 (B,70,31)	CKSRYB104K50	B
C 1391 (A,117,90)	CKSQYB475K6R3	C 2012 (B,69,31)	CCSSCH101J50	
C 1392 (A,115,79)	CKSQYB475K6R3	C 2031 (B,52,35) 4.7 uF	CCG1201	
C 1393 (A,115,81) 10 uF	DCH1201	C 2032 (B,57,33) 4.7 uF	CCG1201	
C 1396 (A,127,71) 10 uF	DCH1201	C 2033 (B,48,35)	CCSSCH101J50	C
C 1397 (A,127,73) 10 uF	DCH1201	C 2041 (A,162,25)	CKSRYB104K50	
C 1401 (A,112,53) 10 uF	DCH1201	C 2042 (A,166,26)	CKSRYB104K50	
C 1402 (A,102,52) 10 uF	DCH1201	C 2093 (A,53,46)	CKSRYB104K16	

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

C 2101 (B,121,49) 4.7 uF

CCG1201

IC 831 (B,119,110) IC

AN33014UA

C 2102 (B,119,51)

CKSRYB105K10

IC 832 (B,118,95) IC

AN33014UA

C 2103 (A,119,45)

XCEVW220M16

IC 901 (B,25,74) IC

NJM4565V

C 2104 (A,110,41)

CKSRYB105K10

IC 951 (B,161,98) IC

AK8814VQ

C 2113 (B,126,26)

CCSSCH101J50

IC 1002 (A,159,72) Logic IC

TC7SHU04FUS1

C 2114 (B,129,25)

CCSSCH101J50

IC 1003 (B,166,72) Logic IC

TC7SHU04FUS1

C 2126 (A,129,64) 10 uF

DCH1201

IC 1004 (A,143,55) IC

R8A77240D500BG1

C 2127 (A,134,64) 10 uF

DCH1201

IC 1006 (B,158,69) Logic IC

TC74VHC125FK

C 2129 (A,158,59)

CKSRYB105K10

IC 1201 (A,132,27) RAM IC

H5PS5162GFR-S5C

C 2134 (A,166,48)

XCEVW221M4

IC 1202 (A,154,27) RAM IC

H5PS5162GFR-S5C

C 2135 (A,166,41)

XCEVW221M4

IC 1241 (B,162,50) Flash ROM Unit(Service) (B,C,E,F,G) YXX5108
(B,162,50) Flash ROM Unit(Service) (D) YXX5109

C 2139 (A,141,54) 10 uF

DCH1201

IC 1301 (A,35,65) IC

S-812C33AUA-C2N

C 2141 (A,136,47)

CKSSYB104K10

IC 1311 (A,165,80) IC

NJM2388F84

C 2144 (B,147,55)

CKSSYB104K10

IC 1321 (B,90,73) IC

AN33012UA

C 2145 (A,134,48) 10 uF

DCH1201

C 2169 (A,105,27)

CKSQYB225K16

IC 1361 (A,86,59) IC

S-1142B50I-E6

C 2170 (A,105,29)

CKSQYB225K16

IC 1371 (A,120,11) IC

NJM2886DL3-33

C 2171 (A,105,31)

CKSQYB225K16

IC 1381 (B,97,94) IC

S-1172B33-E6

C 2172 (A,105,33)

CKSQYB225K16

IC 1383 (B,100,102) IC

NJM2878F3-15

C 2173 (A,108,34)

CKSQYB225K16

IC 1391 (A,116,86) IC

S-1172B33-E6

C 2202 (B,143,35)

CKSRYB104K25

IC 1401 (A,107,49) IC

AL2010

Mother Unit(Service) (B,C,D,E,F,G)**Consists of****Tuner Amp PCB****IF PCB****Tuner PCB****ABD** (B,C,D,E,F,G)**Unit Number: YXX5118(B)****Unit Number: YXX5119(C)****Unit Number: YXX5121(D)****Unit Number: YXX5122(E)****Unit Number: YXX5123(F)****Unit Number: YXX5124(G)****Unit Name : Mother Unit(Service)**
(B,C,D,E,F,G)**MISCELLANEOUS**

IC 101 (A,97,121) IC

PA2030A

IC 181 (B,40,96) IC

PML020A

IC 231 (B,48,63) IC

NJM4565V

IC 232 (A,59,64) IC

NJM4565V

IC 261 (B,40,78) IC

AK4223VQ

IC 401 (B,167,33) IC

337S3959

IC 421 (A,147,76) D/A Converter

PCM1753DBQ

IC 422 (A,158,83) D/A Converter

PCM1753DBQ

IC 471 (B,139,91) LSI

ML86V7675TBZ03A

IC 472 (A,134,91) IC

BH7673G

IC 521 (A,96,41) IC

BH7673G

IC 522 (B,100,41) IC

BH7673G

IC 523 (B,94,41) IC

BH7673G

IC 524 (B,94,44) IC

BH7673G

IC 601 (A,39,42) IC

PEQ136A8

IC 602 (B,58,35) RESET IC

S-80829CNMC-B80

IC 771 (B,147,107)L-MOS And Gate(C,D,E,F,G) TC7SET08FUS1

IC 1602 (B,157,89) IC

TC74VHC541FK

IC 1605 (A,41,101) IC

TPD1052F

IC 1610 (A,52,69) IC

TC4066BFT

IC 1612 (B,28,86) IC

TC4066BFT

IC 2071 (B,158,33) IC(C,D,E,F,G)

HA12241FP

IC 2101 (B,111,49) IC

NJM2856DL3-18

IC 2102 (A,112,49) IC

NJM2886DL3-33

IC 2122 (A,141,48) IC

WM8761BGED

IC 6001 (A,55,27) IC

TDA7706

Q 101 (A,110,110) Chip Transistor

RN4982

Q 131 (A,97,102) Transistor

LTA024EEB

Q 132 (A,102,94) Transistor

LTA024EEB

Q 133 (A,101,101) Transistor

LSCR523UB

Q 134 (A,97,104) Chip Transistor

RN4983

Q 135 (A,102,108) Chip Transistor

RN1903

Q 151 (B,57,94) Chip Transistor

HN1A01FU

Q 152 (B,71,124) Chip Transistor

HN1C01FU

Q 153 (B,75,124) Transistor

LSCR523UB

Q 154 (B,66,119) Transistor

LTC014EEB

Q 155 (B,68,123) Transistor

LTC014EEB

Q 231 (B,36,64) Transistor

LSCR523UB

Q 401 (B,163,32) Transistor

LSAR523UB

Q 421 (B,120,57) Chip Transistor

RN4982

Q 422 (B,119,55) Chip Transistor

HN1C03FU

Q 423 (B,119,63) Chip Transistor

RN4982

Q 424 (B,119,66) Chip Transistor

HN1C03FU

Q 471 (A,129,85) Transistor

LSAR523UB

Q 521 (B,97,48) Transistor

LSCR523UB

Q 522 (B,100,46) Transistor

LSCR523UB

Q 523 (B,107,42) Transistor

LSCR523UB

Q 524 (A,103,39) Transistor

LSCR523UB

Q 571 (A,25,12) Chip Transistor

RN4982

Q 572 (A,28,15) Chip Transistor

HN1C03FU

Q 591 (A,48,90) Transistor

UMF23N

Q 601 (A,60,48) Transistor

LSCR523UB

5			6			7			8		
<u>Circuit Symbol and No.</u>			<u>Part No.</u>			<u>Circuit Symbol and No.</u>			<u>Part No.</u>		
Q 602	(B,83,19)	Transistor	LSCR523UB			D 718	(B,78,20)	Diode	DZ2S068C		
Q 771	(B,148,109)	Transistor(C,D,E,F,G)	LSAR523UB			D 719	(B,77,20)	Diode	DZ2S068C		
Q 781	(B,28,111)	Chip Transistor	HN1C03FU			D 720	(B,76,20)	Diode	DZ2S068C		
Q 782	(B,36,111)	Chip Transistor	HN1C03FU			D 721	(B,75,20)	Diode	DZ2S068C		A
Q 783	(B,44,111)	Chip Transistor	HN1C03FU			D 722	(B,81,20)	Diode	DZ2S068C		
Q 821	(A,150,11)	Transistor	UMF23N			D 723	(B,73,20)	Diode	DZ2S068C		
Q 822	(A,145,12)	Transistor	LSAR523UB			D 724	(B,72,20)	Diode	DZ2S068C		
Q 871	(B,124,40)	Chip Transistor	2SB1689			D 725	(B,70,20)	Diode	DZ2S068C		
Q 1301	(A,33,71)	Transistor	2SB1184F5			D 726	(B,71,25)	Diode	DZ2S068C		
Q 1302	(A,49,76)	Transistor	2SD1664			D 727	(B,68,25)	Diode	DZ2S068C		
Q 1321	(A,89,80)	FET	SFT1342			D 728	(B,68,20)	Diode	DZ2S068C		
Q 1322	(A,89,66)	FET	SFT1342			D 729	(B,67,20)	Diode	DZ2S068C		
Q 1361	(B,83,29)	Chip Transistor	2SB1689			D 730	(B,66,25)	Diode	DZ2S068C		
Q 1362	(B,84,35)	Transistor	LTC043ZEB			D 731	(B,77,25)	Diode	DZ2S068C		B
Q 1381	(B,87,89)	Transistor	LSAR523UB			D 732	(B,51,21)	Diode	DZ2S068C		
Q 1382	(B,93,89)	Transistor	LTC043ZEB			D 733	(B,54,25)	Diode	DZ2S068C		
Q 1393	(B,112,45)	Transistor	2SA1577			D 761	(A,139,119)	Diode	DZ2S068C		
Q 1400	(B,109,47)	Transistor	LTC043ZEB			D 762	(A,116,116)	Diode	DZ2S068C		
Q 1401	(A,103,44)	Transistor	LSCR523UB			D 763	(A,116,120)	Diode	DZ2S068C		
Q 1431	(A,112,11)	Transistor	2SD2118			D 765	(A,116,118)	Diode	DZ2S068C		
Q 1432	(A,97,15)	Transistor	LTC014EEB			D 811	(A,143,14)	Diode	DZ2S068C		
Q 1433	(A,65,59)	Transistor	KTX213U			D 812	(A,143,11)	Diode	DZ2S068C		
Q 1434	(A,71,59)	Transistor	LTC014EEB			D 821	(A,148,16)	Diode	RKZ3.9KG(B2)		
Q 1435	(A,68,64)	Transistor	2SD1760F5			D 831	(B,125,108)	Diode	DB2X41400		C
Q 1441	(B,70,82)	Transistor	LSCR523UB			D 832	(A,164,105)	Diode	EZAEG2A50AX		
Q 1442	(B,66,72)	FET	RSF014N03			D 833	(B,124,93)	Diode	DB2X41400		
Q 1443	(B,71,66)	Transistor	LTC043EEB			D 834	(A,153,109)	Diode	EZAEG2A50AX		
Q 1444	(A,108,111)	Transistor	LTC014YEB			D 835	(A,154,119)	Diode	DZ2S068C		
Q 1445	(A,46,61)	Chip Transistor	RN1904			D 836	(A,154,114)	Diode	DZ2S068C		
Q 1446	(B,24,93)	Chip Transistor	RN1904			D 837	(A,109,104)	Diode	RSX201L-30		
Q 2031	(B,52,31)	Chip Transistor	HN1C03FU			D 838	(A,162,105)	Diode	EZAEG2A50AX		
D 121	(A,51,105)	Diode	CRG03			D 839	(A,154,111)	Diode	EZAEG2A50AX		
D 122	(A,51,107)	Diode	CRG03			D 840	(A,110,92)	Diode	RSX201L-30		
D 131	(A,93,103)	Diode	DA2J101			D 871	(B,119,36)	Diode	EZAEG2A50AX		
D 132	(A,104,104)	Diode	MC2848-11			D 872	(B,115,37)	Diode	EZAEG2A50AX		
D 133	(A,101,103)	Diode	MC2848-11			D 873	(B,106,37)	Diode	EZAEG2A50AX		D
D 136	(A,83,107)	Diode	MC2848-11			D 874	(B,104,37)	Diode	EZAEG2A50AX		
D 151	(B,56,98)	Diode	MC2848-11			D 875	(B,102,37)	Diode	EZAEG2A50AX		
D 152	(B,54,124)	Diode	HZU7L(A1)			D 876	(B,112,36)	Diode	EZAEG2A50AX		
D 153	(B,75,120)	Diode	HZU7L(C3)			D 877	(B,128,17)	Diode	DZ2S068C		
D 154	(B,78,123)	Diode	RKZ20KG(B2)			D 878	(B,122,36)	Diode	DZ2S068C		
D 155	(B,65,123)	Diode	DA2J101			D 879	(B,128,14)	Diode	DZ2S068C		
D 156	(B,63,125)	Diode	RKZ5.6KG(B2)			D 1303	(A,52,77)	Diode	RKZ18KG(B2)		
D 231	(B,41,62)	Diode	RKZ4.7KG(B2)			D 1304	(A,44,77)	Diode	1SR154-400		
D 601	(B,59,39)	Diode	DA2J101			D 1321	(A,91,75)	Diode	RB080L-30		
D 702	(B,54,20)	Diode	EMZC6.8N			D 1322	(A,91,71)	Diode	RB080L-30		
D 703	(B,55,25)	Diode	EMZC6.8N			D 1323	(A,93,88)	Diode	CMS03		E
D 704	(B,56,20)	Diode	EMZC6.8N			D 1324	(A,89,88)	Diode	CMS03		
D 705	(B,58,25)	Diode	EMZC6.8N			D 1401	(A,108,56)	Diode	DB2X206		
D 706	(B,58,20)	Diode	EMZC6.8N			D 1432	(A,105,17)	Diode	HZU6R2(B3)		
D 707	(B,60,25)	Diode	EMZC6.8N			D 1433	(A,77,62)	Diode	RKZ8.2KG(B2)		
D 708	(B,61,20)	Diode	EMZC6.8N			D 1434	(A,73,59)	Diode	RKZ6.8KG(B2)		
D 709	(B,62,25)	Diode	EMZC6.8N			D 1441	(B,67,81)	Diode	HZU13(B1)		
D 710	(B,63,20)	Diode	EMZC6.8N			D 1442	(B,70,74)	Diode	RB551VM-30		
D 711	(B,64,25)	Diode	EMZC6.8N			D 1461	(A,33,95)	Diode	1SR154-400		
D 712	(B,65,20)	Diode	EMZC6.8N			D 1462	(A,33,99)	Diode	1SR154-400		
D 713	(B,80,20)	Diode	DZ2S068C			D 1463	(A,31,90)	Diode	1SR154-400		F
D 714	(B,82,25)	Diode	DZ2S068C			D 1464	(A,34,90)	Diode	1SR154-400		
D 715	(B,81,25)	Diode	DZ2S068C			D 1475	(A,45,97)	Diode	CRG03		
D 716	(B,79,25)	Diode	DZ2S068C			D 2012	(B,66,31)	Diode	DZ2S068C		
D 717	(B,78,25)	Diode	DZ2S068C								

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

A	D 2013	(B,69,33) Diode	DZ2S068C
	D 2014	(B,62,31) Diode	DZ2S068C
	D 6001	(A,47,12) Diode	RN731VN
	D 6002	(A,48,15) Diode	RN731VN
	L 103	(A,110,112) Inductor	CTF1389
	L 121	(A,66,99) Choke Coil 600 uH	CTH1221
	L 131	(A,79,108) Chip Coil	BTH1101
	L 151	(B,59,102) Chip Coil	BTH1101
	L 152	(B,59,125) Inductor	CTF1547
	L 472	(B,147,87) Chip Beads	VTL1132
B	L 521	(B,107,40) Inductor	CTF1545
	L 522	(B,102,47) Inductor	CTF1545
	L 523	(A,101,41) Inductor	CTF1545
	L 524	(B,104,45) Inductor	CTF1545
	L 601	(A,28,59) Ferrite Bead	CTF1528
	L 701	(A,74,24) Inductor	XTL3010
	L 771	(B,145,109) Ferrite Bead(C,D,E,F,G)	CTF1528
	L 772	(B,147,116) Inductor(C,D,E,F,G)	CTF1787
	L 831	(A,127,109) Inductor	CTH1524
	L 832	(A,160,102) Inductor	CTF1713
C	L 833	(A,151,110) Inductor	CTF1713
	L 836	(A,126,98) Inductor	CTH1524
	L 951	(B,171,102) Inductor	LCTAW2R7J2520
	L 952	(B,152,100) Inductor	LCTAW2R7J2520
	L 1001	(A,130,42) Chip Beads	VTL1127
	L 1002	(A,127,51) Chip Beads	VTL1126
	L 1003	(A,125,52) Chip Beads	VTL1126
	L 1004	(A,127,49) Chip Beads	VTL1126
	L 1005	(A,125,50) Chip Beads	VTL1126
	L 1006	(A,127,50) Chip Beads	VTL1126
D	L 1007	(A,125,51) Chip Beads	VTL1126
	L 1008	(A,127,48) Chip Beads	VTL1126
	L 1009	(A,125,49) Chip Beads	VTL1126
	L 1010	(A,127,47) Chip Beads	VTL1126
	L 1011	(A,125,48) Chip Beads	VTL1126
	L 1012	(A,125,46) Chip Beads	VTL1126
	L 1013	(A,127,46) Chip Beads	VTL1126
	L 1014	(A,125,47) Chip Beads	VTL1126
	L 1015	(A,125,45) Chip Beads	VTL1126
	L 1016	(A,127,45) Chip Beads	VTL1126
E	L 1017	(A,125,43) Chip Beads	VTL1126
	L 1018	(A,127,43) Chip Beads	VTL1126
	L 1019	(A,125,44) Chip Beads	VTL1126
	L 1020	(A,127,44) Chip Beads	VTL1126
	L 1021	(B,156,73) Chip Beads	VTL1132
	L 1022	(A,127,42) Chip Beads	VTL1126
	L 1023	(B,151,64) Chip Beads	VTL1132
	L 1024	(A,156,60) Chip Beads	VTL1126
	L 1025	(B,156,66) Chip Beads	VTL1132
	L 1026	(B,158,66) Chip Beads	VTL1132
F	L 1321	(A,101,86) Inductor	ATH1219
	L 1322	(A,101,61) Inductor	CTH1541
	L 1323	(A,78,85) Choke Coil 6.8 uH	CTH1434
	L 1401	(A,112,60) Inductor	CTH1526
	L 1441	(A,64,71) Choke Coil 47 uH	CTH1388
	L 1442	(B,62,66) Inductor	CTF1735
	L 1601	(B,157,84) Chip Beads	VTL1126
	L 2011	(B,61,31) Inductor	CTF1545
	L 2012	(B,70,35) Inductor	CTF1545
	L 2013	(B,65,34) Inductor	CTF1545

L 2031	(B,49,29) Inductor	CTF1545
L 2032	(B,55,29) Inductor	CTF1545
L 2041	(A,165,27) Inductor	CTF1545
L 2042	(A,161,24) Inductor	CTF1545
L 2072	(B,163,35) Chip Beads(C,D,E,F,G)	VTL1126
L 2111	(B,130,25) Inductor	CTF1545
L 2112	(B,126,25) Inductor	CTF1639
L 6001	(A,52,10) Chip Coil	LCTAWR15J2520
L 6002	(A,54,15) Inductor	CTF1786
L 6003	(A,58,16) Inductor	CTF1786
L 6004	(A,52,13) Chip Coil	LCTAWR27J2520
L 6005	(A,61,13) Inductor	CTF1389
L 6006	(A,62,17) Inductor	LCTAW220J2520
L 6007	(A,51,16) Inductor	CTF1794
L 6008	(A,62,21) Inductor	LCYB68NJ1005
L 6009	(A,66,27) Chip Coil	LCTAW470J2520
L 6010	(A,66,32) Inductor	CTF1786
L 6011	(A,58,36) Inductor	CTF1786
L 6012	(A,50,37) Inductor	CTF1786
L 6015	(A,44,34) Inductor	CTF1786
L 6016	(A,45,21) Inductor	CTF1786
L 6017	(A,46,21) Inductor	CTF1786
X 471	(B,144,81) Crystal Resonator 32.000 MHz	CSS1818
X 601	(A,59,39) Resonator 3.932 16 MHz	CSS1772
X 1002	(A,155,72) Resonator 27.000 MHz	CSS1768
X 1003	(B,166,68) Resonator 22 579.2 kHz	CSS1812
X 1004	(A,127,66) Resonator 48.000 MHz	CSS1760
X 1005	(A,127,59)Crystal Resonator 33.333 333 MHz	CSS1825
X 6001	(A,42,30) Resonator 36.480 MHz	CSS1805
P 761	(A,113,116) Poly Switch	FSMD075-24R
P 781	(A,24,110) Poly Switch	FSMD075-24R
P 901	(B,19,88) Surge Absorber	IMSA-6803-01Y900
⚠ P1321	(A,70,82) Fuse 6.3 A	CEK1262
⚠ P1322	(A,22,12) Fuse 1.25 A	CEK1382
⚠ P1323	(A,21,23) Fuse 3.0 A	CEK1386
⚠ P1361	(A,96,25) Fuse 4.0 A	CEK1387
⚠ P1381	(A,111,78) Fuse 3.0 A	CEK1386
⚠ P1382	(B,94,103) Fuse 0.5 A	CEK1379
⚠ P1391	(B,111,50) Fuse 1.0 A	CEK1381
⚠ P1431	(A,100,14) Fuse 2.5 A	CEK1385
⚠ P1435	(A,113,28) Fuse 0.5 A	CEK1379
⚠ P1441	(B,60,65) Fuse 0.5 A	CEK1379
P 2031	(B,46,38) Poly Switch	FSMD075-24R
P 2051	(A,121,31) Poly Switch	FSMD075-24R
BZ2161	(A,39,29) Buzzer	CPV1062
CN571	(A,29,20) Connector	VKN1620
CN702	(A,67,17) Connector	CKS6536
CN761	(A,132,124) Connector	CKS6504
CN1346	(A,152,95) Connector	CKS6503
CN1435	(A,113,24) Connector	CKS4822
CN1437	(A,81,48) Connector	CKS6283
CN2051	(A,109,15) Connector	CKS4497
CN2091	(A,53,54) Connector	CKS6095
CN2121	(A,145,62) Connector	CKS6346
CN2162	(B,81,50) Connector	CKS6536
CN6001	(A,54,4) Connector	CKS6273
JA121	(A,62,118) Plug	CKM1376
JA771	(A,147,118) Jack(C,D,E,F,G)	CKN1042
JA781	(A,35,120) Pin Jack	XKB7001
JA811	(A,138,10) Jack	CKS6437

5		6	7		8
<u>Circuit Symbol and No.</u>		<u>Part No.</u>	<u>Circuit Symbol and No.</u>		<u>Part No.</u>
JA831	(A,163,114) Connector	DKN1417	R 240	(B,49,58)	RS1/10SR153J
JA871	(B,110,20) Connector	CKS6282			
JA901	(A,14,111) Antenna Jack	YKS5041	R 242	(B,38,64)	RS1/16SS102J
JA2001	(A,13,21) RCA Jack	CKB1106	R 243	(B,36,61)	RS1/16SS472J
JA2011	(A,69,9) Mini Jack	AKN1073	R 246	(A,62,62)	RS1/10SR153J
			R 247	(A,61,59)	RS1/10SR473J
			R 248	(A,56,63)	RS1/10SR153J
JA2031	(A,54,17) Jack	CKS6437			
JA2041	(A,166,17) Jack	CKS6437			
JA2071	(A,149,12) Connector(C,D,E,F,G)	CKS5271	R 249	(A,56,61)	RS1/10SR153J
JA2111	(A,130,16) Jack	CKN1040	R 250	(A,56,66)	RS1/10SR153J
			R 251	(A,58,58)	RS1/10SR153J
			R 252	(B,46,66)	RS1/10SR153J
			R 261	(B,40,68)	RS1/16SS0R0J
RESISTORS					
R 101	(A,110,113)	RS1/16SS103J			
R 102	(A,111,108)	RS1/16SS473J	R 262	(B,51,70)	RS1/16SS0R0J
R 121	(B,60,121)	RS1/4SA102J	R 263	(B,51,79)	RS1/16SS0R0J
R 122	(B,54,120)	RS1/4SA102J	R 264	(B,51,84)	RS1/16SS0R0J
R 123	(B,58,121)	RS1/4SA102J	R 267	(B,35,84)	RS1/16SS0R0J
			R 268	(B,30,75)	RS1/16SS2200D
R 131	(A,94,100)	RS1/16SS102J			
R 132	(A,104,100)	RS1/16SS472J	R 271	(B,28,81)	RS1/16SS750J
R 133	(A,103,100)	RS1/16SS473J	R 272	(B,31,75)	RS1/16SS0R0J
R 134	(A,97,107)	RS1/16SS222J	R 273	(B,31,76)	RS1/16SS101J
R 135	(A,99,107)	RS1/16SS823J	R 274	(B,31,77)	RS1/16SS101J
			R 275	(B,30,79)	RS1/16SS0R0J
R 136	(A,104,108)	RS1/16SS101J			
R 137	(A,98,107)	RS1/16SS152J	R 276	(B,30,80)	RS1/16SS101J
R 141	(A,81,106)	RS1/16SS153J	R 277	(B,30,81)	RS1/16SS101J
R 142	(A,87,107)	RS1/10SR472J	R 279	(B,44,87)	RS1/10SR0R0J
R 153	(B,59,99)	RS1/16SS103J	R 280	(B,45,85)	RS1/10SR0R0J
			R 282	(A,45,91)	RS1/16SS75R0D
R 154	(B,55,93)	RS1/16SS473J			
R 155	(B,57,92)	RS1/16SS473J	R 283	(B,36,84)	RS1/16SS0R0J
R 156	(B,59,94)	RS1/16SS473J	R 284	(B,35,71)	RS1/16SS0R0J
R 157	(B,57,96)	RS1/16SS473J	R 285	(B,36,71)	RS1/16SS0R0J
R 158	(B,53,123)	RS1/16SS472J	R 287	(B,38,67)	RS1/16SS0R0J
			R 288	(B,41,68)	RS1/16SS0R0J
R 159	(B,55,122)	RS1/16SS473J			
R 160	(B,55,126)	RS1/16SS103J	R 289	(B,42,68)	RS1/16SS0R0J
R 163	(B,73,120)	RS1/16SS473J	R 290	(B,44,68)	RS1/16SS0R0J
R 164	(B,73,123)	RS1/16SS104J	R 292	(B,31,74)	RS1/16SS0R0J
R 165	(B,75,121)	RS1/16SS103J	R 293	(B,30,78)	RS1/16SS0R0J
			R 295	(A,46,89)	RS1/16SS470J
R 166	(B,77,124)	RS1/16SS103J			
R 167	(B,64,119)	RS1/16SS103J	R 310	(B,46,68)	RS1/16SS0R0J
R 168	(B,60,125)	RS1/16SS103J	R 326	(B,51,69)	RS1/16SS0R0J
R 169	(B,69,121)	RS1/16SS104J	R 327	(B,51,72)	RS1/16SS0R0J
R 171	(B,64,123)	RS1/10SR472J	R 328	(B,51,73)	RS1/16SS0R0J
			R 329	(B,51,75)	RS1/16SS0R0J
R 181	(B,36,108)	RS1/16SS182J			
R 182	(B,39,109)	RS1/16SS182J	R 330	(B,51,77)	RS1/16SS0R0J
R 183	(B,36,109)	RS1/16SS272J	R 331	(B,51,78)	RS1/16SS0R0J
R 184	(B,40,109)	RS1/16SS272J	R 333	(B,51,81)	RS1/16SS0R0J
R 185	(B,39,107)	RS1/16SS182J	R 342	(B,31,73)	RS1/16SS0R0J
			R 343	(B,31,72)	RS1/16SS0R0J
R 186	(B,42,107)	RS1/16SS182J			
R 187	(B,43,106)	RS1/16SS272J	R 345	(A,37,76)	RS1/16SS101J
R 188	(B,43,107)	RS1/16SS272J	R 346	(B,30,82)	RS1/16SS0R0J
R 196	(B,32,90)	RS1/16SS473J	R 347	(B,30,83)	RS1/16SS0R0J
R 198	(B,52,86)	RS1/16SS0R0J	R 373	(A,36,76)	RS1/16SS103J
			R 374	(B,51,82)	RS1/16SS0R0J
R 231	(B,52,57)	RS1/10SR153J			
R 232	(B,48,59)	RS1/10SR153J	R 375	(B,51,85)	RS1/16SS0R0J
R 233	(B,45,59)	RS1/10SR153J	R 401	(B,164,34)	RS1/16SS472J
R 234	(A,58,59)	RS1/10SR153J	R 402	(B,170,30)	RS1/16SS272J
R 235	(B,50,66)	RS1/10SR153J	R 403	(B,164,27)	RS1/16SS101J
			R 404	(B,163,27)	RS1/16SS101J
R 236	(B,53,59)	RS1/10SR153J			
R 237	(A,54,58)	RS1/10SR273J	R 405	(B,167,31)	RS1/16SS103J
R 238	(B,51,60)	RS1/10SR153J	R 406	(B,165,30)	RS1/16SS103J
R 239	(A,53,58)	RS1/10SR273J	R 421	(B,120,59)	RS1/16SS102J
			R 422	(B,119,53)	RS1/16SS472J

	1	2	3	4
	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
	R 423 (B,116,54)	RS1/16SS472J	R 516 (A,131,90)	RS1/16SS750J
A	R 424 (A,156,76)	RS1/16SS104J	R 536 (A,99,39)	RS1/16SS101J
	R 425 (A,154,78)	RS1/16SS104J	R 540 (B,96,46)	RS1/16SS101J
	R 426 (A,151,75)	RS1/16SS821J	R 551 (B,100,43)	RS1/10SR101J
	R 427 (A,152,78)	RS1/16SS821J	R 552 (B,103,42)	RS1/16SS101J
	R 428 (A,148,71)	RS1/16SS0R0J	R 553 (B,98,44)	RS1/16SS101J
	R 429 (A,145,81)	RS1/16SS0R0J	R 554 (A,124,86)	RS1/16SS0R0J
	R 430 (A,146,82)	RS1/16SS0R0J	R 571 (A,24,14)	RS1/16SS102J
	R 431 (B,117,66)	RS1/16SS472J	R 572 (A,27,13)	RS1/16SS472J
	R 432 (B,117,64)	RS1/16SS472J	R 573 (A,28,13)	RS1/16SS472J
	R 433 (B,119,60)	RS1/16SS102J	R 574 (A,32,16)	RS1/16SS0R0J
B	R 434 (A,149,84)	RS1/16SS104J	R 575 (A,39,16) (C,D,E,F,G)	RS1/16SS101J
	R 435 (A,149,83)	RS1/16SS104J	R 577 (A,31,25)	RS1/16SS471J
	R 436 (A,152,83)	RS1/16SS821J	R 578 (A,29,25)	RS1/16SS221J
	R 437 (A,154,83)	RS1/16SS821J	R 579 (A,30,25)	RS1/16SS221J
	R 438 (A,160,79)	RS1/16SS0R0J	R 580 (A,33,25)	RS1/16SS221J
	R 443 (B,117,61)	RS1/16SS0R0J	R 581 (A,32,25)	RS1/16SS221J
	R 444 (B,148,82)	RS1/16SS0R0J	R 582 (A,34,25)	RS1/16SS221J
	R 445 (B,116,56)	RS1/16SS0R0J	R 591 (A,48,93)	RS1/16SS562J
	R 446 (B,40,66)	RS1/16SS0R0J	R 592 (A,49,97)	RS1/16SS332J
	R 449 (A,151,79)	RS1/16SS0R0J	R 593 (A,81,45)	RS1/16SS471J
C	R 451 (A,147,83)	RS1/16SS0R0J	R 594 (A,79,45)	RS1/16SS471J
	R 452 (A,151,77)	RS1/16SS0R0J	R 595 (A,50,90)	RS1/16SS222J
	R 471 (A,126,86)	RS1/16SS101J	R 601 (A,33,57)	RS1/16SS221J
	R 474 (A,126,85)	RS1/16SS301J	R 602 (A,31,57)	RS1/16SS221J
	R 475 (B,153,70)	RS1/16SS0R0J	R 603 (A,32,57)	RS1/16SS221J
	R 476 (B,153,71)	RS1/16SS0R0J	R 604 (B,52,44)	RS1/16SS473J
	R 477 (B,132,84)	RS1/16SS151J	R 606 (A,63,52)	RS1/16SS473J
	R 478 (B,129,87)	RS1/16SS151J	R 607 (A,61,52)	RS1/16SS473J
	R 479 (B,129,94)	RS1/16SS151J	R 608 (B,60,39)	RS1/16SS104J
	R 480 (A,126,90)	RS1/16SS0R0J	R 609 (B,50,40)	RS1/16SS104J
D	R 481 (A,132,83)	RS1/16SS0R0J	R 610 (B,50,42)	RS1/16SS104J
	R 483 (B,139,81)	RS1/16SS472J	R 611 (A,55,46)	RS1/16SS104J
	R 484 (B,140,99)	RS1/16SS473J	R 612 (B,52,29)	RS1/16SS0R0J
	R 485 (B,142,83)	RS1/16SS105J	R 613 (B,55,35)	RS1/10SR0R0J
	R 487 (B,145,84)	RS1/16SS101J	R 614 (A,55,39)	RS1/16SS100J
	R 488 (B,145,83)	RS1/16SS101J	R 615 (B,48,49)	RS1/10SR0R0J
	R 489 (B,141,82)	RS1/16SS821J	R 616 (B,52,36)	RS1/16SS104J
	R 490 (A,131,85)	RS1/16SS0R0J	R 617 (B,54,38)	RS1/16SS102J
	R 492 (B,149,90)	RS1/16SS181J	R 618 (B,52,42)	RS1/16SS473J
	R 493 (B,147,90)	RS1/16SS181J	R 620 (B,54,43)	RS1/16SS681J
E	R 494 (B,149,91)	RS1/16SS181J	R 621 (B,54,42)	RS1/16SS273J
	R 495 (B,147,91)	RS1/16SS181J	R 622 (A,58,48)	RS1/16SS473J
	R 496 (B,149,92)	RS1/16SS181J	R 623 (A,54,33)	RS1/16SS101J
	R 497 (B,147,92)	RS1/16SS181J	R 624 (B,49,50)	RS1/16SS472J
	R 498 (B,149,93)	RS1/16SS181J	R 625 (B,49,51)	RS1/16SS472J
	R 499 (B,147,93)	RS1/16SS181J	R 626 (A,55,53)	RS1/16SS473J
	R 500 (B,149,94)	RS1/16SS560J	R 627 (B,51,27)	RS1/16SS473J
	R 501 (B,147,94)	RS1/16SS560J	R 628 (B,52,27)	RS1/16SS473J
	R 502 (B,149,95)	RS1/16SS560J	R 629 (B,48,27)	RS1/16SS472J
	R 503 (B,133,79)	RS1/16SS0R0J	R 630 (B,49,27)	RS1/16SS472J
F	R 504 (B,149,83)	RS1/16SS222J	R 631 (A,50,27)	RS1/16SS471J
	R 505 (B,148,83)	RS1/16SS222J	R 632 (A,49,27)	RS1/16SS471J
	R 506 (B,147,85)	RS1/16SS101J	R 633 (B,49,52)	RS1/16SS473J
	R 507 (B,148,86)	RS1/16SS473J	R 634 (B,48,52)	RS1/16SS473J
	R 508 (B,141,99)	RS1/16SS101J	R 635 (B,47,52)	RS1/16SS473J
	R 510 (B,128,92)	RS1/16SS151J	R 636 (A,48,57)	RS1/16SS473J
	R 512 (B,149,87)	RS1/16SS331J	R 638 (A,42,58)	RS1/16SS104J
	R 514 (A,130,90)	RS1/16SS750J	R 639 (B,43,32)	RS1/16SS103J
	R 515 (A,130,88)	RS1/16SS0R0J	R 640 (B,42,57)	RS1/16SS103J

5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
R 641	(B,42,29)	RS1/16SS104J		R 761	(A,118,119)	RS1/16SS223J	
R 642	(B,42,56)	RS1/16SS103J		R 762	(A,118,117)	RS1/16SS223J	
R 643	(A,40,25) (B,C,D)	RS1/16SS473J		R 771	(B,145,106) (C,D,E,F,G)	RS1/16SS0R0J	A
R 644	(A,40,58)	RS1/16SS471J		R 772	(B,145,108) (C,D,E,F,G)	RS1/16SS473J	
R 645	(A,40,27) (E,F,G)	RS1/16SS473J		R 773	(B,150,111) (C,D,E,F,G)	RS1/16SS121J	
R 646	(A,41,25) (B,D,E)	RS1/16SS473J		R 774	(B,145,110) (C,D,E,F,G)	RS1/16SS104J	
R 647	(B,41,57)	RS1/16SS681J		R 775	(B,145,116) (C,D,E,F,G)	RS1/16SS103J	
R 648	(A,41,27) (C,F,G)	RS1/16SS473J		R 781	(A,29,114)	RS1/16SS390J	
				R 782	(A,43,114)	RS1/16SS390J	
R 649	(A,42,25) (B,C,E,F)	RS1/16SS473J		R 783	(A,27,114)	RS1/16SS390J	
R 650	(A,42,27) (D,G)	RS1/16SS473J		R 784	(A,38,114)	RS1/16SS390J	
R 652	(A,46,58)	RS1/16SS221J					
R 653	(B,38,52)	RS1/16SS182J		R 785	(A,33,114)	RS1/16SS390J	
R 654	(A,39,58)	RS1/16SS221J		R 786	(A,45,114)	RS1/16SS390J	
R 655	(B,37,52)	RS1/16SS182J		R 787	(A,30,114)	RS1/16SS223J	
				R 788	(A,41,114)	RS1/16SS223J	B
R 656	(A,38,25)	RS1/10SR0R0J		R 789	(A,25,114)	RS1/16SS223J	
R 657	(A,38,58)	RS1/16SS221J					
R 658	(B,37,54)	RS1/10SR0R0J		R 790	(A,39,114)	RS1/16SS223J	
R 659	(A,35,27)	RS1/16SS473J		R 791	(A,31,114)	RS1/16SS223J	
R 660	(B,37,32)	RS1/16SS473J		R 792	(A,46,114)	RS1/16SS223J	
				R 793	(B,33,111)	RS1/16SS472J	
R 661	(B,35,55)	RS1/16SS473J		R 794	(B,39,111)	RS1/16SS472J	
R 662	(A,34,57)	RS1/16SS473J					
R 663	(A,34,61)	RS1/16SS473J		R 795	(B,46,111)	RS1/16SS472J	
R 664	(A,29,27)	RS1/16SS104J		R 796	(B,41,111)	RS1/16SS472J	
R 665	(B,29,27)	RS1/16SS104J		R 797	(B,31,111)	RS1/16SS472J	
				R 798	(B,25,111)	RS1/16SS472J	
R 666	(A,24,41)	RS1/16SS221J		R 811	(A,144,16)	RS1/16SS102J	C
R 667	(B,31,41)	RS1/16SS221J					
R 668	(B,30,41)	RS1/16SS221J		R 812	(A,144,14)	RS1/16SS473J	
R 669	(A,24,39)	RS1/16SS104J		R 821	(A,149,14)	RS1/16SS473J	
R 670	(B,32,41)	RS1/16SS221J		R 822	(A,151,14)	RS1/16SS104J	
				R 823	(A,148,10)	RS1/16SS473J	
R 673	(B,30,33)	RS1/16SS223J		R 824	(A,148,12)	RS1/16SS104J	
R 674	(B,30,34)	RS1/16SS223J					
R 675	(B,30,35)	RS1/10SR0R0J		R 825	(A,145,14)	RS1/16SS122J	
R 676	(A,55,55)	RS1/16SS222J		R 826	(A,151,15)	RS1/16SS152J	
				R 831	(A,141,113)	RS1/16SS681J	
R 677	(A,37,27)	RS1/16SS0R0J		R 832	(A,140,113)	RS1/16SS681J	
R 679	(A,24,42)	RS1/16SS473J		R 833	(A,142,113)	RS1/16SS681J	
R 680	(A,24,40)	RS1/16SS104J					D
R 681	(A,55,52) (C,D,E,F,G)	RS1/16SS472J		R 836	(B,129,100)	RS1/16SS0R0J	
R 682	(A,51,27)	RS1/16SS222J		R 837	(B,117,101)	RS1/16SS0R0J	
R 683	(B,41,56)	RS1/16SS222J		R 839	(B,124,116)	RS1/16SS101J	
				R 840	(B,122,101)	RS1/16SS101J	
R 684	(A,44,58)	RS1/16SS0R0J		R 841	(B,131,109)	RS1/16SS0R0J	
R 685	(A,45,58)	RS1/16SS0R0J					
R 687	(A,48,27)	RS1/16SS222J		R 842	(B,118,116)	RS1/16SS0R0J	
R 688	(B,47,27)	RS1/16SS473J		R 843	(B,116,116)	RS1/16SS224J	
R 689	(A,45,25)	RS1/16SS154J		R 844	(B,119,117)	RS1/16SS4702D	
				R 845	(B,113,105)	RS1/16SS152J	
R 690	(B,58,48)	RS1/16SS471J		R 846	(B,114,106)	RS1/16SS3302D	
R 691	(B,58,47)	RS1/16SS471J					
R 695	(A,34,27)	RS1/16SS0R0J		R 847	(B,113,107)	RS1/16SS8201D	E
R 697	(B,82,23)	RS1/16SS104J		R 848	(B,115,104)	RS1/16SS752J	
R 698	(B,83,23) (B,C,D,E,F)	RS1/16SS224J		R 849	(A,129,103) 0.056 ohm	ACN7160	
	(B,83,23) (G)	RS1/16SS104J		R 850	(B,120,104)	RS1/16SS0R0J	
				R 851	(B,121,117)	RS1/16SS394J	
R 699	(A,54,31)	RS1/16SS101J					
R 700	(A,52,22)	RS1/16SS101J		R 852	(B,121,116)	RS1/16SS204J	
R 701	(A,55,47)	RS1/16SS0R0J		R 855	(B,114,107)	RS1/16SS0R0J	
R 702	(A,57,48)	RS1/16SS0R0J		R 856	(B,113,106)	RS1/16SS0R0J	
R 703	(A,55,50) (C,D,E,F,G)	RS1/16SS0R0J		R 857	(A,141,108)	RS1/16SS681J	
R 704	(A,54,52) (C,D,E,F,G)	RS1/16SS0R0J		R 858	(A,143,108)	RS1/16SS681J	
R 705	(A,24,47)	RS1/16SS0R0J					
				R 860	(B,115,101)	RS1/16SS224J	F
R 706	(B,72,18)	RS1/16SS472J		R 861	(B,118,102)	RS1/16SS4702D	
R 707	(B,70,24)	RS1/16SS472J		R 862	(B,112,90)	RS1/16SS152J	
R 729	(B,78,17)	RS1/16SS222J		R 863	(B,113,91)	RS1/16SS3302D	
R 738	(B,80,17)	RS1/16SS222J		R 864	(B,111,93)	RS1/16SS8201D	

	1	2	3	4
	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
A	R 865 (B,115,89)	RS1/16SS752J	R 1013 (B,127,68)	RS1/10SR0R0J
	R 866 (A,142,108)	RS1/16SS681J	R 1014 (A,158,53)	RS1/16SS330J
	R 867 (A,133,95) 0.056 ohm	ACN7160	R 1015 (B,128,60)	RS1/10SR0R0J
	R 868 (B,119,89)	RS1/16SS0R0J	R 1016 (A,166,52)	RS1/16SS330J
	R 869 (B,120,102)	RS1/16SS394J	R 1017 (A,166,51)	RS1/16SS330J
■	R 870 (B,120,101)	RS1/16SS204J	R 1018 (B,166,70)	RS1/16SS105J
	R 872 (B,126,16)	RS1/16SS0R0J	R 1019 (B,139,66)	RS1/10SR0R0J
	R 873 (B,113,92)	RS1/16SS0R0J	R 1021 (A,164,51)	RS1/16SS330J
	R 874 (B,120,36)	RS1/16SS101J	R 1022 (A,157,69)	RS1/16SS102J
	R 875 (B,117,36)	RS1/16SS101J	R 1023 (A,159,52)	RS1/16SS330J
B	R 877 (B,113,36)	RS1/16SS0R0J	R 1024 (B,163,69)	RS1/16SS331J
	R 879 (B,106,36)	RS1/16SS220J	R 1025 (A,158,69)	RS1/16SS220J
	R 880 (B,104,36)	RS1/16SS101J	R 1026 (B,162,69)	RS1/16SS220J
	R 881 (B,101,36)	RS1/16SS101J	R 1027 (A,158,52)	RS1/16SS330J
	R 882 (B,126,14)	RS1/16SS0R0J	R 1028 (A,162,72)	RS1/10SR0R0J
■	R 883 (B,120,39)	RAB4C223J	R 1029 (B,162,72)	RS1/10SR0R0J
	R 884 (B,115,39)	RAB4C223J	R 1030 (B,148,72)	RS1/16SS221J
	R 885 (B,119,42)	RS1/16SS102J	R 1031 (B,147,71)	RS1/16SS221J
	R 886 (B,124,36)	RS1/16SS681J	R 1034 (A,164,50)	RS1/16SS330J
	R 887 (B,124,38)	RS1/16SS103J	R 1035 (A,145,72)	RS1/16SS101J
C	R 889 (B,112,91)	RS1/16SS0R0J	R 1036 (A,147,72)	RS1/16SS101J
	R 901 (A,22,74)	RS1/16SS103J	R 1037 (A,146,72)	RS1/16SS101J
	R 902 (A,23,74)	RS1/16SS103J	R 1038 (A,164,49)	RS1/16SS330J
	R 903 (B,22,66)	RS1/10SR681J	R 1039 (A,159,88)	RS1/16SS101J
	R 906 (B,20,66)	RS1/16SS0R0J	R 1040 (A,161,88)	RS1/16SS101J
■	R 908 (B,22,69)	RS1/16SS103J	R 1041 (A,160,88)	RS1/16SS101J
	R 909 (B,21,72)	RS1/16SS103J	R 1042 (A,159,51)	RS1/16SS330J
	R 910 (B,26,68)	RS1/10SR103J	R 1043 (A,158,51)	RS1/16SS330J
	R 911 (B,22,77)	RS1/16SS103J	R 1044 (B,146,70)	RS1/10SR0R0J
	R 912 (B,22,78)	RS1/16SS103J	R 1045 (B,144,70)	RS1/10SR0R0J
D	R 913 (B,25,79)	RS1/10SR103J	R 1046 (A,136,68)	RS1/16SS5601D
	R 926 (A,32,78)	RS1/10SR0R0J	R 1047 (A,134,68)	RS1/16SS5601D
	R 930 (A,24,74)	RS1/16SS102J	R 1048 (A,130,66)	RS1/16SS681J
	R 931 (A,20,73)	RS1/16SS102J	R 1050 (A,121,60)	RS1/16SS103J
	R 932 (A,26,73)	RS1/16SS0R0J	R 1051 (A,122,63)	RS1/16SS103J
■	R 934 (A,25,75)	RS1/10SR0R0J	R 1052 (A,121,63)	RS1/16SS103J
	R 952 (B,166,93)	RS1/16SS103J	R 1053 (A,122,61)	RS1/16SS103J
	R 953 (B,157,103)	RS1/16SS101J	R 1054 (A,121,59)	RS1/16SS103J
	R 954 (B,155,104)	RS1/16SS101J	R 1055 (A,121,62)	RS1/16SS103J
	R 955 (B,163,92)	RS1/16SS103J	R 1056 (A,121,58)	RS1/16SS103J
E	R 956 (B,162,92)	RS1/16SS103J	R 1057 (A,122,58)	RS1/16SS103J
	R 957 (B,160,91)	RS1/16SS221J	R 1058 (A,122,59)	RS1/16SS103J
	R 958 (B,159,93)	RS1/16SS221J	R 1059 (A,121,61)	RS1/16SS103J
	R 960 (B,154,98)	RS1/16SS6801D	R 1061 (A,129,58)	RS1/16SS152J
	R 961 (B,165,92)	RS1/16SS101J	R 1062 (A,122,60)	RS1/16SS103J
■	R 962 (B,166,103)	RS1/16SS103J	R 1063 (A,123,55)	RS1/16SS0R0J
	R 964 (B,155,94)	RS1/10SR0R0J	R 1064 (A,166,50)	RS1/16SS330J
	R 965 (B,150,100)	RS1/10SR0R0J	R 1065 (A,159,50)	RS1/16SS330J
	R 1001 (A,164,54)	RS1/16SS330J	R 1066 (A,158,50)	RS1/16SS330J
	R 1002 (A,166,55)	RS1/16SS330J	R 1068 (B,129,49)	RS1/16SS101J
F	R 1003 (A,159,55)	RS1/16SS330J	R 1069 (B,132,49)	RS1/16SS101J
	R 1004 (A,156,55)	RS1/16SS330J	R 1070 (A,158,57)	RS1/16SS102J
	R 1005 (A,166,54)	RS1/16SS330J	R 1071 (A,131,48)	RS1/16SS101J
	R 1006 (A,164,53)	RS1/16SS330J	R 1072 (A,131,49)	RS1/16SS101J
	R 1007 (A,159,54)	RS1/16SS330J	R 1073 (B,130,49)	RS1/16SS101J
■	R 1008 (A,157,54)	RS1/16SS330J	R 1075 (A,131,47)	RS1/16SS101J
	R 1009 (A,166,53)	RS1/16SS330J	R 1077 (B,135,48)	RS1/16SS0R0J
	R 1010 (A,164,52)	RS1/16SS330J	R 1079 (B,139,51)	RS1/16SS82R0D
	R 1011 (A,159,53)	RS1/16SS330J	R 1080 (B,137,48)	RS1/16SS82R0D
	R 1012 (A,157,71)	RS1/16SS105J	R 1086 (A,159,49)	RS1/16SS330J

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<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
R 1087	(B,116,63)	RS1/16SS0R0J		R 1161	(A,156,64)	RS1/16SS331J	A
R 1088	(B,118,59)	RS1/16SS0R0J		R 1162	(A,158,63)	RS1/16SS331J	
R 1089	(A,132,69)	RS1/16SS102J		R 1163	(A,158,62)	RS1/16SS331J	
R 1090	(A,131,69)	RS1/16SS102J		R 1164	(A,158,61)	RS1/16SS331J	
R 1093	(A,156,63)	RS1/16SS331J		R 1165	(A,156,59)	RS1/16SS331J	
R 1094	(A,156,62)	RS1/16SS331J		R 1166	(A,156,65)	RS1/16SS331J	
R 1095	(A,158,49)	RS1/16SS330J		R 1167	(B,139,39)	RS1/16SS100J	
R 1096	(A,159,48)	RS1/16SS561J		R 1168	(B,142,38)	RS1/16SS100J	
R 1097	(A,122,62)	RS1/16SS0R0J		R 1169	(B,137,39)	RS1/16SS100J	
R 1098	(B,151,50)	RS1/16SS0R0J		R 1170	(B,139,38)	RS1/16SS100J	
R 1099	(A,145,41)	RS1/16SS100J		R 1171	(B,143,39)	RS1/16SS100J	B
R 1100	(A,144,41)	RS1/16SS100J		R 1172	(B,141,38)	RS1/16SS100J	
R 1101	(B,145,39)	RS1/16SS100J		R 1173	(A,142,41)	RS1/16SS100J	
R 1102	(B,140,39)	RS1/16SS100J		R 1174	(A,143,41)	RS1/16SS100J	
R 1103	(A,143,39)	RS1/16SS100J		R 1175	(A,127,52)	RS1/16SS0R0J	
R 1104	(B,143,38)	RS1/16SS100J		R 1176	(B,153,64)	RS1/16SS471J	
R 1105	(B,140,38)	RS1/16SS100J		R 1177	(A,131,54)	RS1/16SS103J	
R 1106	(A,158,48)	RS1/16SS330J		R 1178	(B,159,74)	RS1/16SS101J	
R 1107	(B,149,39)	RS1/16SS100J		R 1179	(A,164,46)	RS1/16SS561J	
R 1108	(B,147,40)	RS1/16SS100J		R 1180	(A,166,46)	RS1/16SS561J	
R 1109	(B,148,39)	RS1/16SS100J		R 1181	(A,159,47)	RS1/16SS561J	C
R 1110	(B,146,39)	RS1/16SS100J		R 1182	(A,166,44)	RS1/16SS561J	
R 1111	(B,138,39)	RS1/16SS100J		R 1183	(A,166,45)	RS1/16SS561J	
R 1112	(B,149,40)	RS1/16SS100J		R 1184	(A,164,44)	RS1/16SS561J	
R 1113	(B,141,39)	RS1/16SS100J		R 1185	(A,158,46)	RS1/16SS561J	
R 1114	(B,151,71)	RS1/16SS331J		R 1186	(A,164,43)	RS1/16SS561J	
R 1115	(B,151,70)	RS1/16SS331J		R 1187	(A,158,45)	RS1/16SS561J	
R 1116	(B,152,60)	RS1/16SS121J		R 1188	(A,159,46)	RS1/16SS561J	
R 1117	(A,148,67)	RS1/16SS472J		R 1189	(A,158,44)	RS1/16SS561J	
R 1118	(A,147,68)	RS1/16SS472J		R 1190	(A,159,45)	RS1/16SS561J	
R 1119	(A,150,70)	RS1/16SS473J		R 1191	(A,131,62)	RS1/16SS330J	D
R 1120	(A,151,72)	RS1/16SS473J		R 1192	(B,133,57)	RS1/16SS472J	
R 1121	(A,152,68)	RS1/16SS473J		R 1193	(B,135,58)	RS1/16SS102J	
R 1122	(A,166,47)	RS1/16SS561J		R 1195	(A,156,66)	RS1/16SS103J	
R 1123	(B,158,65)	RS1/16SS471J		R 1196	(A,158,60)	RS1/16SS331J	
R 1124	(B,154,66)	RS1/16SS471J		R 1197	(A,123,51)	RS1/16SS121J	
R 1126	(B,156,74)	RS1/16SS471J		R 1198	(A,121,52)	RS1/16SS121J	
R 1127	(B,148,69)	RS1/16SS472J		R 1199	(A,123,49)	RS1/16SS121J	
R 1128	(B,148,17)	RS1/16SS103J		R 1200	(A,121,50)	RS1/16SS121J	
R 1129	(B,130,48)	RS1/16SS103J		R 1201	(B,128,26)	RS1/16SS82R0D	
R 1130	(B,132,48)	RS1/16SS103J		R 1202	(B,128,24)	RS1/16SS82R0D	
R 1132	(A,127,55)	RS1/16SS0R0J		R 1203	(A,123,50)	RS1/16SS121J	
R 1133	(A,125,55)	RS1/16SS0R0J		R 1204	(B,155,26)	RS1/16SS82R0D	
R 1134	(A,127,53)	RS1/16SS0R0J		R 1205	(B,153,24)	RS1/16SS82R0D	
R 1135	(A,125,54)	RS1/16SS0R0J		R 1206	(A,121,51)	RS1/16SS121J	
R 1136	(A,127,54)	RS1/16SS0R0J		R 1207	(B,144,44)	RS1/16SS100J	E
R 1137	(A,158,47)	RS1/16SS561J		R 1208	(B,145,44)	RS1/16SS100J	
R 1138	(A,164,45)	RS1/16SS561J		R 1209	(B,145,29)	RS1/16SS431J	
R 1139	(A,125,53)	RS1/16SS0R0J		R 1210	(A,123,48)	RS1/16SS121J	
R 1140	(A,150,68)	RS1/16SS471J		R 1211	(A,121,49)	RS1/16SS121J	
R 1141	(A,149,68)	RS1/16SS471J		R 1212	(A,123,47)	RS1/16SS121J	
R 1142	(A,155,47)	RS1/16SS101J		R 1213	(A,121,48)	RS1/16SS121J	
R 1145	(B,128,56)	RS1/16SS0R0J		R 1214	(A,121,46)	RS1/16SS121J	
R 1146	(B,130,56)	RS1/16SS0R0J		R 1215	(A,123,46)	RS1/16SS121J	
R 1147	(B,127,56)	RS1/16SS0R0J		R 1216	(A,121,47)	RS1/16SS121J	
R 1148	(B,128,57)	RS1/16SS0R0J		R 1217	(A,121,45)	RS1/16SS121J	F
R 1149	(B,131,56)	RS1/16SS0R0J		R 1218	(A,123,45)	RS1/16SS121J	
R 1150	(B,129,56)	RS1/16SS0R0J		R 1219	(A,121,43)	RS1/16SS121J	
R 1159	(A,158,64)	RS1/16SS331J		R 1220	(A,123,43)	RS1/16SS121J	
R 1160	(A,158,65)	RS1/16SS331J		R 1221	(A,121,44)	RS1/16SS121J	

	1	2	3	4
	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
A	R 1222 (A,123,44)	RS1/16SS121J	R 1415 (A,113,49)	RS1/16SS0R0J
	R 1223 (A,125,40)	RS1/16SS221J	R 1416 (A,103,46)	RS1/16SS471J
	R 1225 (A,123,42)	RS1/16SS121J	R 1420 (A,101,46)	RS1/16SS102J
	R 1227 (A,144,70)	RS1/16SS473J	R 1421 (A,105,45)	RS1/16SS102J
	R 1228 (B,152,54)	RS1/16SS680J	R 1431 (A,104,15)	RS1/10SR121J
■	R 1229 (A,152,67)	RS1/16SS221J	R 1432 (A,106,9)	RS1/16SS473J
	R 1230 (A,148,69)	RS1/16SS221J	R 1433 (A,98,17)	RS1/16SS220J
	R 1241 (B,161,63)	RS1/16SS103J	R 1434 (A,68,60)	RS1/16SS221J
	R 1242 (B,163,63)	RS1/16SS103J	R 1435 (A,67,60)	RS1/16SS221J
	R 1243 (B,163,38)	RS1/8SQ0R0J	R 1436 (A,65,60)	RS1/16SS221J
B	R 1301 (A,38,71)	RS1/16SS391J	R 1437 (A,63,60)	RS1/16SS473J
	R 1302 (A,49,79)	RS1/16SS911J	R 1438 (A,63,58)	RS1/16SS103J
	R 1312 (A,24,33)	RS1/16SS0R0J	R 1439 (A,65,57)	RS1/16SS0R0J
	R 1321 (B,95,83)	RS1/16SS0R0J	R 1441 (B,71,80)	RS1/16SS681J
	R 1322 (B,93,83)	RS1/16SS561J	R 1442 (B,69,66)	RS1/16SS0R0J
■	R 1323 (B,93,81)	RS1/16SS3302D	R 1443 (B,68,66)	RS1/16SS3303D
	R 1324 (B,94,81)	RS1/16SS4301D	R 1444 (B,66,65)	RS1/16SS1102D
	R 1325 (B,95,81)	RS1/16SS3601D	R 1445 (B,64,73)	RS1/16SS512J
	R 1326 (B,87,80)	RS1/10SR0R0J	R 1446 (B,64,72)	RS1/16SS0R0J
	R 1327 (B,90,83)	RS1/16SS822J	R 1447 (B,62,68)	RS1/16SS621J
C	R 1328 (B,94,79)	RS1/16SS0R0J	R 1448 (B,69,69)	RS1/16SS0R0J
	R 1330 (B,95,67)	RS1/16SS224J	R 1449 (B,69,71)	RS1/10SR4701D
	R 1331 (B,90,63)	RS1/16SS822J	R 1451 (B,59,67)	RS1/16SS0R0J
	R 1332 (B,87,66)	RS1/10SR0R0J	R 1481 (B,111,47)	RS1/10SR681J
	R 1333 (B,93,65)	RS1/16SS1101D	R 1601 (B,149,77)	RS1/16SS104J
■	R 1334 (B,94,65)	RS1/16SS2701D	R 1602 (B,148,75)	RS1/16SS0R0J
	R 1335 (B,92,65)	RS1/16SS2702D	R 1603 (B,151,77)	RS1/16SS331J
	R 1336 (B,93,63)	RS1/16SS511J	R 1604 (B,151,75)	RS1/16SS331J
	R 1337 (B,97,74)	RS1/16SS101J	R 1605 (B,152,77)	RS1/16SS331J
	R 1338 (B,97,67)	RS1/16SS101J	R 1606 (B,152,75)	RS1/16SS331J
D	R 1339 (B,95,63)	RS1/16SS0R0J	R 1607 (B,153,77)	RS1/16SS331J
	R 1340 (B,96,79)	RS1/16SS204J	R 1608 (B,153,75)	RS1/16SS331J
	R 1341 (B,97,79)	RS1/16SS394J	R 1609 (B,154,77)	RS1/16SS331J
	R 1342 (B,97,76)	RS1/16SS101J	R 1610 (B,154,75)	RS1/16SS331J
	R 1343 (B,96,74)	RS1/16SS103J	R 1611 (B,156,82)	RS1/16SS331J
■	R 1344 (B,96,76)	RS1/16SS103J	R 1612 (B,158,81)	RS1/16SS331J
	R 1361 (A,80,60)	RS1/16SS0R0J	R 1613 (B,158,83)	RS1/16SS331J
	R 1362 (A,81,60)	RS1/16SS102J	R 1614 (B,159,81)	RS1/16SS331J
	R 1365 (B,83,32)	RS1/16SS102J	R 1615 (B,159,83)	RS1/16SS331J
	R 1366 (B,83,31)	RS1/16SS102J	R 1617 (B,154,85)	RS1/16SS0R0J
E	R 1367 (B,84,37)	RS1/16SS0R0J	R 1618 (A,33,27)	RS1/16SS103J
	R 1372 (A,124,16)	RS1/16SS102J	R 1637 (A,57,53) (C,D,E,F,G)	RS1/16SS0R0J
	R 1383 (B,100,104)	RS1/16SS102J	R 1638 (A,56,51) (C,D,E,F,G)	RS1/16SS0R0J
	R 1384 (B,95,98)	RS1/16SS102J	R 1639 (A,49,59)	RS1/10SR273J
	R 1388 (B,89,89)	RS1/16SS102J	R 1640 (A,60,72)	RS1/10SR273J
■	R 1389 (B,90,89)	RS1/16SS102J	R 1641 (A,47,63)	RS1/16SS473J
	R 1396 (A,124,72)	RS1/10SR0R0J	R 1642 (A,48,63)	RS1/16SS473J
	R 1397 (A,119,85)	RS1/16SS102J	R 1643 (B,167,22)	RS1/16SS473J
	R 1399 (B,113,48)	RS1/16SS102J	R 1644 (B,24,90)	RS1/16SS223J
	R 1400 (B,111,49)	RS1/10SR681J	R 1645 (B,25,95)	RS1/16SS223J
F	R 1402 (A,106,44)	RS1/16SS564J	R 1646 (A,46,59)	RS1/16SS223J
	R 1403 (A,109,44)	RS1/16SS123J	R 1647 (A,48,61)	RS1/16SS223J
	R 1404 (A,108,44)	RS1/16SS224J	R 1648 (A,108,113)	RS1/16SS103J
	R 1405 (A,103,54)	RS1/16SS5R6J	R 1649 (A,71,45)	RS1/16SS0R0J
	R 1406 (A,113,48)	RS1/16SS6800D	R 2001 (B,24,25)	RS1/16SS750J
■	R 1407 (A,111,47)	RS1/16SS1302D	R 2012 (B,61,33)	RS1/16SS750J
	R 1408 (A,111,45)	RS1/16SS6801D	R 2013 (B,64,31)	RS1/10SR0R0J
	R 1409 (A,109,54)	RS1/16SS5R6J	R 2014 (B,67,31)	RS1/10SR0R0J
	R 1411 (A,104,47)	RS1/16SS102J	R 2017 (B,68,35)	RS1/16SS223J
	R 1412 (A,117,68)	RS1/16SS102J	R 2018 (B,67,34)	RS1/16SS223J

5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
R 2031	(B,49,35)	RS1/16SS821J		R 6016	(A,49,35)	RS1/10SR0R0J	
R 2032	(B,55,34)	RS1/16SS472J		R 6017	(A,46,37)	RS1/10SR0R0J	
R 2033	(B,51,29)	RS1/16SS223J		R 6018	(A,40,18)	RS1/8SQ0R0J	
R 2034	(B,55,33)	RS1/16SS472J		R 6019	(B,59,25)	RS1/16SS0R0J	A
R 2035	(B,53,29)	RS1/16SS223J		<u>CAPACITORS</u>			
R 2036	(B,55,32)	RS1/16SS821J					
R 2041	(A,161,22)	RS1/10SR102J					
R 2042	(A,163,28)	RS1/10SR102J					
R 2052	(B,103,25)	RAB4CQ750J					
R 2055	(A,106,25)	RS1/16SS223J					
R 2056	(A,111,28)	RS1/10SR102J					
R 2057	(A,113,28)	RS1/10SR102J					
R 2058	(A,115,26)	RS1/10SR471J					
R 2059	(A,118,26)	RS1/10SR471J					
R 2061	(A,107,25)	RS1/16SS223J					
R 2071	(B,154,29) (C,D,E,F,G)	RS1/16SS150J		C 101	(A,110,114)	CKSSYB104K16	
R 2072	(B,156,28) (C,D,E,F,G)	RS1/16SS470J		C 103	(A,92,111) 10 uF	CCG1236	
R 2073	(B,153,32) (C,D,E,F,G)	RS1/16SS101J		C 105	(A,102,110)	CKSRYB105K16	
R 2074	(B,154,30) (C,D,E,F,G)	RS1/16SS101J		C 110	(B,94,109)	CKSRYB224K16	
R 2075	(B,153,34) (C,D,E,F,G)	RS1/16SS102J		C 111	(B,96,109)	CKSRYB224K16	
R 2077	(B,145,30) (C,D,E,F,G)	RS1/16SS181J		C 112	(B,98,109)	CKSRYB224K16	
R 2078	(B,134,25) (C,D,E,F,G)	RS1/16SS181J		C 113	(B,99,109)	CKSRYB224K16	
R 2079	(B,136,26) (C,D,E,F,G)	RS1/16SS223J		C 121	(A,86,99) 3 300 uF/16 V	CCH2027	B
R 2080	(B,144,30) (C,D,E,F,G)	RS1/16SS223J		C 131	(A,97,96)	XCEVW101M16	
R 2081	(B,142,29) (C,D,E,F,G)	RS1/16SS102J		C 132	(A,101,106)	CKSQYB105K25	
R 2082	(B,135,27) (C,D,E,F,G)	RS1/16SS102J		C 134	(A,79,110)	CKSRYB104K50	
R 2091	(A,52,48)	RS1/16SS681J		C 152	(B,56,102)	CKSRYB104K50	
R 2092	(A,55,48)	RS1/10SR473J		C 153	(B,56,100)	CKSRYB474K16	
R 2093	(A,54,49)	RS1/10SR473J		C 156	(B,62,120)	CKSRYB105K10	
R 2101	(B,118,53)	RS1/16SS102J		C 158	(B,66,125)	CKSRYB104K50	
R 2122	(A,154,54)	RS1/16SS102J		C 181	(B,53,95)	CKSRYB105K10	
R 2123	(A,154,55)	RS1/16SS102J		C 182	(B,49,96)	CKSRYB105K10	
R 2128	(A,145,55)	RS1/16SS681J		C 183	(B,28,95)	CKSRYB105K10	
R 2131	(A,144,55)	RS1/16SS681J		C 184	(B,49,94) (C,D,E,F,G)	CKSRYB105K10	C
R 2133	(A,146,55)	RS1/16SS681J		C 185	(B,28,92) (C,D,E,F,G)	CKSRYB105K10	
R 2135	(A,147,55)	RS1/16SS681J		C 186	(B,53,93) (C,D,E,F,G)	CKSRYB105K10	
R 2139	(A,159,50)	RS1/16SS102J		C 187	(B,32,94) (C,D,E,F,G)	CKSRYB105K10	
R 2142	(A,160,61)	RS1/16SS0R0J		C 188	(B,49,92)	CKSRYB105K10	
R 2146	(B,145,54)	RS1/16SS101J		C 189	(B,49,91)	CKSRYB105K10	
R 2148	(B,130,54)	RS1/16SS101J		C 190	(B,48,102)	CKSRYB105K10	
R 2161	(A,108,30)	RS1/10SR272J		C 191	(B,44,104)	CKSRYB105K10	
R 2162	(A,110,30)	RS1/10SR272J		C 192	(B,32,101)	CKSRYB105K10	
R 2163	(A,109,32)	RS1/10SR562J		C 193	(B,32,99)	CKSRYB105K10	
R 2164	(B,42,38)	RS1/16SS102J		C 194	(B,32,98)	CKSRYB105K10	
R 2165	(B,116,24)	RS1/16SS103J		C 195	(B,51,89)	CKSQYB225K10	
R 2253	(A,133,43)	RS1/16SS0R0J		C 196	(B,45,88)	CKSRYB474K16	
R 2254	(A,70,51)	RS1/16SS0R0J		C 197	(A,37,91) 10 uF	DCH1201	
R 6001	(A,45,14)	RS1/16SS221J		C 198	(B,41,88)	CKSSYB104K10	
R 6002	(A,49,18)	RS1/16SS751J		C 199	(A,39,93) 10 uF	DCH1201	
R 6003	(A,62,14)	RS1/16SS152J		C 200	(B,32,92)	CKSSYB104K10	
R 6004	(A,60,20)	RS1/16SS105J		C 202	(B,39,105)	CKSRYB104K16	
R 6005	(A,58,9)	RS1/16SS105J		C 203	(A,42,106) 10 uF	CCG1236	
R 6006	(A,64,24)	RS1/16SS471J		C 204	(A,42,108) 10 uF	CCG1236	
R 6007	(A,65,23)	RS1/16SS330J		C 205	(B,50,100)	CCSQCH223J50	
R 6008	(A,66,30)	RS1/16SS681J		C 206	(B,50,98)	CCSQCH223J50	E
R 6009	(A,62,38)	RS1/4SA5R6J		C 210	(B,28,93)	CKSRYB105K10	
R 6010	(B,58,33)	RS1/16SS102J		C 212	(B,53,98)	CKSRYB105K10	
R 6011	(A,45,29)	RS1/16SS0R0J		C 213	(B,32,96)	CKSRYB105K10	
R 6014	(A,64,38)	RS1/4SA5R6J		C 233	(B,47,59)	CCSSCH101J50	
R 6015	(A,66,38)	RS1/4SA5R6J		C 234	(B,37,61)	CKSSYB105K6R3	
				C 237	(B,39,61)	CKSRYB105K10	
				C 238	(B,52,60)	CCSSCH101J50	
				C 239	(B,53,62)	CKSRYB104K16	
				C 243	(A,59,69)	CKSRYB104K16	
				C 246	(A,55,64)	CCSSCH101J50	F
				C 247	(A,56,59)	CKSQYB225K10	
				C 261	(B,39,69)	CKSRYB105K10	
				C 262	(B,48,70)	CKSRYB105K10	

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

C 263 (B,48,79)

CKSRYB105K10

C 482 (B,132,87)

CKSSYB102K50

C 264 (B,48,84)

CKSRYB105K10

C 483 (B,131,90)

CKSSYB103K25

C 265 (B,32,78)

CKSSYB104K16

C 484 (A,127,90) 10 uF

DCH1201

C 266 (B,33,75)

CKSSYB104K16

C 485 (B,136,99)

CKSSYB104K10

C 267 (B,33,76)

CKSSYB104K16

C 486 (A,134,89) 10 uF

DCH1201

C 268 (B,33,77)

CKSSYB104K16

C 487 (B,137,99)

CKSSYB104K10

C 269 (B,32,79)

CKSSYB104K16

C 488 (B,135,79) 10 uF

DCH1201

C 270 (B,32,80)

CKSSYB104K16

C 489 (B,137,82)

CKSRYB105K16

C 271 (B,32,81)

CKSSYB104K16

C 490 (A,134,85)

CKSSYB104K10

C 272 (B,34,82)

CKSSYB104K16

C 491 (B,138,82)

CKSSYB104K10

C 273 (B,38,84)

CKSSYB104K16

C 492 (B,139,99)

CKSSYB104K10

C 274 (B,33,85) 10 uF

DCH1201

C 493 (B,140,82)

CKSSYB104K10

C 275 (B,40,84)

CKSSYB104K16

C 494 (B,142,99)

CKSSYB104K10

C 276 (B,37,84)

CKSSYB104K16

C 495 (B,143,99)

CKSSYB104K10

C 277 (B,38,86) 10 uF

DCH1201

C 496 (B,144,78)

CCSSCH4R0C50

C 279 (B,43,84)

CKSSYB104K16

C 497 (B,141,81)

CCSSCH5R0C50

C 280 (B,38,69)

CKSRYB105K10

C 498 (B,148,88)

CKSSYB104K10

C 281 (B,42,85) 10 uF

DCH1201

C 499 (B,148,89)

CKSSYB104K10

C 282 (B,41,70)

CKSRYB105K10

C 500 (B,148,85)

CKSSYB103K16

C 283 (B,43,70)

CKSRYB105K10

C 501 (A,134,87) 10 uF

DCH1201

C 284 (B,44,70)

CKSRYB105K10

C 502 (B,131,87)

CKSSYB103K16

C 285 (B,46,70)

CKSRYB105K10

C 503 (B,131,94)

CKSSYB103K16

C 286 (B,38,71)

CKSSYB104K16

C 504 (B,135,82)

CKSSYB103K16

C 287 (A,42,78)

CKSRYB105K10

C 511 (A,134,84)

CKSSYB103K16

C 288 (B,48,69)

CKSRYB105K10

C 512 (A,130,92)

CKSRYB105K10

C 289 (B,48,72)

CKSRYB105K10

C 513 (A,131,87)

CKSRYB105K10

C 290 (B,48,73)

CKSRYB105K10

C 514 (A,137,91)

CKSSYB104K10

C 295 (A,45,88)

CKSSYB271K50

C 521 (B,107,41)

CKSSYB104K10

C 299 (B,48,75)

CKSRYB105K10

C 522 (B,103,45)

CKSSYB104K10

C 300 (B,48,76)

CKSRYB105K10

C 523 (B,101,48)

CKSSYB104K10

C 301 (B,48,78)

CKSRYB105K10

C 524 (A,103,41)

CKSSYB104K10

C 302 (B,48,81)

CKSRYB105K10

C 526 (B,103,40)

CKSSYB104K10

C 304 (B,33,73)

CKSSYB104K16

C 530 (B,90,44) 10 uF

DCH1201

C 305 (B,33,72)

CKSSYB104K16

C 531 (B,97,40)

CKSSYB104K10

C 306 (B,48,82)

CKSRYB105K10

C 532 (B,97,44)

CKSSYB104K10

C 307 (B,48,85)

CKSRYB105K10

C 533 (A,99,41)

CKSSYB104K10

C 309 (B,46,86)

CKSSYB104K16

C 571 (A,20,16) 0.1 uF

CCG1321

C 310 (B,33,74)

CKSSYB104K16

C 572 (A,18,23) 0.1 uF

CCG1321

C 311 (B,32,83)

CKSSYB104K16

C 576 (A,47,24)

CCSRCH100D50

C 312 (B,32,82)

CKSSYB104K16

C 591 (A,82,41)

CKSRYB105K10

C 401 (B,168,22)

CKSSYB104K10

C 592 (A,85,41)

CKSRYB105K10

C 402 (B,166,22)

CKSSYB104K10

C 593 (A,89,41)

CKSRYB105K10

C 421 (A,153,76)

CKSQYB475K6R3

C 594 (A,93,41)

CKSRYB105K10

C 422 (A,153,79)

CKSQYB475K6R3

C 595 (A,77,53)

CKSSYB105K6R3

C 423 (A,148,72)

CKSSYB104K10

C 596 (A,91,41)

CKSRYB105K10

C 424 (A,149,81) 10 uF

DCH1201

C 597 (A,87,41)

CKSRYB105K10

C 425 (A,145,85)

CKSQYB475K6R3

C 598 (A,84,41)

CKSRYB105K10

C 426 (A,153,81)

CKSQYB475K6R3

C 599 (A,97,44)

CKSRYB105K10

C 427 (A,158,88)

CKSSYB104K10

C 601 (A,33,59)

CCSSCH101J50

C 428 (A,158,78) 10 uF

DCH1201

C 602 (A,31,59)

CCSSCH101J50

C 472 (A,125,85)

CKSSYB104K10

C 603 (A,32,59)

CCSSCH101J50

C 473 (B,130,91)

CKSSYB224K6R3

C 604 (B,57,39)

CKSRYB105K10

C 474 (B,130,92)

CKSSYB224K6R3

C 605 (A,55,40)

CCSSCH180J50

C 475 (B,131,91)

CKSSYB224K6R3

C 606 (A,54,37)

CCSSCH180J50

C 476 (B,130,88)

CKSRYB105K16

C 607 (B,51,50)

CKSSYB104K10

C 477 (B,129,93)

CKSRYB105K16

C 608 (B,53,29)

CKSSYB104K10

C 478 (B,132,94)

CKSSYB102K50

C 609 (B,55,37)

CKSSYB104K10

C 479 (B,131,96)

CKSRYB105K16

C 610 (B,49,36)

CKSQYB475K6R3

C 480 (B,135,83)

CKSSYB102K50

C 611 (A,52,27)

CKSSYB104K10

C 481 (B,132,85)

CKSRYB105K16

C 613 (A,39,27)

CKSSYB104K10

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<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>		
C 614	(B,39,55)	CKSSYB104K10		C 902	(B,20,73)	CKSQYB225K10		
				C 903	(B,26,69)	CKSSYB681K50		
C 615	(B,30,36)	CKSSYB104K10						
C 619	(B,83,22)	CKSSYB104K10		C 904	(B,19,76)	CKSQYB225K10		A
C 626	(A,43,25)	CKSSYB221K50		C 905	(B,21,80)	CKSQYB225K10		
C 702	(A,72,25)	CKSQYB475K6R3		C 906	(B,25,78)	CKSSYB681K50		
C 703	(A,70,25)	CKSQYB475K6R3		C 907	(B,28,74)	CKSRYB104K16		
				C 912	(A,18,81)	CKSSYB104K10		
C 704	(A,93,16)	CKSRYB105K10						
C 705	(B,53,27)	CKSSYB222K50		C 913	(A,22,80)	XCEVW101M16		
C 707	(A,68,24)	CCSSCH100D50		C 918	(B,18,84)	CCSSCK2R0C50		
C 711	(A,84,24)	CKSRYB105K10		C 919	(B,21,60)	CCSSCH220J50		
C 761	(A,141,118)	CKSRYB104K50		C 951	(B,169,102) 10 uF	DCH1201		
C 772	(B,148,111) (C,D,E,F,G)	CKSSYB104K10		C 952	(B,155,98)	CKSSYB104K10		
C 781	(A,29,112) 4.7 uF	CCG1201		C 953	(B,163,104)	CKSSYB104K10		
C 782	(A,43,112) 4.7 uF	CCG1201		C 954	(B,161,104)	CKSSYB104K10		B
C 783	(A,27,112) 4.7 uF	CCG1201		C 955	(B,167,98)	CKSSYB103K16		
C 784	(A,38,112) 4.7 uF	CCG1201		C 956	(B,155,96)	CKSSYB103K16		
C 785	(A,33,112) 4.7 uF	CCG1201		C 957	(B,153,96) 10 uF	DCH1201		
C 786	(A,45,112) 4.7 uF	CCG1201		C 958	(B,154,96)	CKSSYB103K16		
C 788	(A,22,113)	CKSSYB102K50		C 959	(B,160,92)	CKSSYB103K16		
C 831	(B,122,115)	CKSSYB104K16		C 960	(B,155,101) 10 uF	DCH1201		
C 832	(B,125,103) 10 uF	CCG1236		C 961	(B,167,94)	CKSSYB102K50		
C 833	(B,114,109)	CKSRYB105K10		C 1002	(A,157,73)	CCSSCH100D50		
C 834	(B,117,116)	CKSSYB102K50		C 1003	(B,168,68)	CCSSCH120J50		
C 835	(B,114,113)	CKSSYB472K50		C 1004	(B,130,68) 4.7 uF	CCG1201		
C 836	(B,120,117)	CKSSYB104K16		C 1005	(B,128,65) 4.7 uF	CCG1201		C
C 837	(B,114,105)	CCSSCH471J50		C 1006	(B,131,59) 4.7 uF	CCG1201		
C 838	(B,116,104)	CKSSYB222K50		C 1007	(B,131,60) 4.7 uF	CCG1201		
C 839	(B,116,105)	CCSSCH270J50		C 1008	(B,132,64) 4.7 uF	CCG1201		
C 840	(A,116,108)	XCEVW470M16		C 1009	(B,136,66)	CKSSYB104K10		
C 841	(B,118,105)	CKSSYB104K16		C 1010	(B,136,64)	CKSSYB104K10		
C 843	(B,129,104) 22 uF	DCH1256		C 1011	(B,135,60)	CKSSYB104K10		
C 844	(B,122,100)	CKSSYB104K16		C 1012	(B,140,62)	CKSSYB104K10		
C 845	(B,122,89) 10 uF	CCG1236		C 1013	(B,139,62)	CKSSYB104K10		
C 846	(A,135,100)	XCEVW101M16		C 1014	(B,152,58)	CCSSCH180J50		
C 847	(B,113,94)	CKSRYB105K10		C 1015	(A,155,69)	CCSSCH100D50		
C 848	(B,116,101)	CKSSYB102K50		C 1016	(B,163,67)	CCSSCH6R0D50		D
C 853	(A,153,119)	CKSRYB104K50		C 1017	(B,133,68)	CKSSYB104K10		
C 854	(A,153,114)	CKSRYB104K50		C 1018	(B,135,64)	CKSSYB104K10		
C 855	(B,117,90)	CKSSYB104K16		C 1019	(B,134,59)	CKSSYB104K10		
C 857	(A,144,108)	CKSSYB104K16		C 1020	(B,133,61)	CKSSYB104K10		
C 858	(B,130,99) 22 uF	DCH1256		C 1021	(B,134,63)	CKSSYB104K10		
C 859	(A,135,108)	XCEVW101M16		C 1026	(A,161,73)	CKSSYB104K10		
C 860	(A,139,113)	CKSSYB104K16		C 1027	(B,163,72)	CKSSYB104K10		
C 861	(B,114,98)	CKSSYB472K50		C 1028	(B,147,66)	CKSSYB104K10		
C 862	(B,119,102)	CKSSYB104K16		C 1029	(B,147,67) 4.7 uF	CCG1201		
C 863	(B,113,90)	CCSSCH471J50		C 1030	(B,143,67) 4.7 uF	CCG1201		
C 864	(B,116,89)	CKSSYB222K50		C 1031	(B,143,66)	CKSSYB104K10		E
C 865	(B,115,90)	CCSSCH270J50		C 1032	(B,141,62)	CKSSYB104K10		
C 866	(A,116,98)	XCEVW470M16		C 1033	(B,142,62)	CKSSYB104K10		
C 871	(B,118,36)	CCSSCH100D50		C 1034	(A,129,67)	CCSSCH120J50		
C 872	(B,116,36)	CCSSCH100D50		C 1035	(A,125,65)	CCSSCH8R0D50		
C 873	(B,107,36)	CCSSCH100D50		C 1036	(B,147,62)	CKSSYB104K10		
C 874	(B,103,36)	CCSSCH100D50		C 1037	(B,148,62)	CKSSYB104K10		
C 875	(B,102,36)	CCSSCH100D50		C 1038	(B,149,62)	CKSSYB104K10		
C 876	(B,126,18)	CKSSYB104K10		C 1039	(B,138,60)	CKSSYB104K10		
C 877	(B,123,36)	CKSSYB104K10		C 1040	(B,136,59)	CKSSYB104K10		
C 878	(B,126,13)	CKSSYB104K10		C 1041	(A,129,60)	CCSSCH100D50		F
C 879	(B,117,42)	CKSSYB104K10		C 1042	(B,150,59)	CKSSYB104K10		
C 880	(B,127,9)	CKSRYB104K16		C 1043	(B,150,58)	CKSSYB104K10		
C 901	(B,21,70)	CKSQYB225K10		C 1044	(B,150,57)	CKSSYB104K10		

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	<u>Circuit Symbol and No.</u>			<u>Part No.</u>			<u>Circuit Symbol and No.</u>			<u>Part No.</u>	
A	C 1045	(A,125,57)		CCSSCH9R0D50			C 1208	(B,131,28)		CKSSYB104K10	
	C 1046	(B,150,56)		CKSSYB104K10			C 1209	(A,126,26)		CKSSYB104K10	
	C 1047	(B,136,56)		CKSSYB104K10			C 1210	(A,128,19)		CKSSYB104K10	
	C 1048	(B,150,55)		CKSSYB104K10			C 1211	(B,135,33)		CKSSYB104K10	
	C 1049	(B,136,55)		CKSSYB104K10			C 1212	(B,135,31)		CKSSYB104K10	
■	C 1050	(B,136,54)		CKSSYB104K10			C 1213	(B,133,31)		CKSSYB104K10	
	C 1051	(B,136,53)		CKSSYB104K10			C 1214	(B,135,30)		CKSSYB104K10	
	C 1052	(B,136,52)		CKSSYB104K10			C 1215	(B,137,29)		CKSSYB104K10	
	C 1053	(B,150,52)		CKSSYB104K10			C 1216	(B,133,28)		CKSSYB104K10	
	C 1054	(B,136,51)		CKSSYB104K10			C 1217	(A,137,26)		CKSSYB104K10	
B	C 1055	(B,150,51)		CKSSYB104K10			C 1218	(A,137,23)		CKSSYB104K10	
	C 1056	(B,136,50)		CKSSYB104K10			C 1219	(B,154,26)		CKSSYB104K10	
	C 1057	(B,150,50)		CKSSYB104K10			C 1220	(B,154,24)		CKSSYB104K10	
	C 1058	(B,126,48) 4.7 uF		CCG1201			C 1221	(B,150,33)		CKSSYB104K10	
	C 1059	(B,150,46)		CKSSYB104K10			C 1222	(B,150,31)		CKSSYB104K10	
■	C 1060	(B,148,48)		CKSSYB104K10			C 1223	(B,153,31)		CKSSYB104K10	
	C 1061	(B,147,48)		CKSSYB104K10			C 1224	(B,150,30)		CKSSYB104K10	
	C 1062	(B,144,48)		CKSSYB104K10			C 1225	(B,151,28)		CKSSYB104K10	
	C 1063	(B,143,48)		CKSSYB104K10			C 1226	(B,152,27)		CKSSYB104K10	
	C 1064	(B,142,48)		CKSSYB104K10			C 1227	(A,148,25)		CKSSYB104K10	
C	C 1065	(B,141,48)		CKSSYB104K10			C 1228	(A,150,18)		CKSSYB104K10	
	C 1066	(B,140,48)		CKSSYB104K10			C 1229	(B,157,33)		CKSSYB104K10	
	C 1067	(B,139,48)		CKSSYB104K10			C 1230	(B,157,31)		CKSSYB104K10	
	C 1068	(B,134,46)		CKSSYB104K10			C 1231	(B,155,31)		CKSSYB104K10	
	C 1069	(B,147,50)		CKSSYB104K10			C 1232	(B,157,30)		CKSSYB104K10	
■	C 1070	(B,146,48)		CKSSYB104K10			C 1233	(B,157,28)		CKSSYB104K10	
	C 1071	(B,147,57)		CKSSYB104K10			C 1234	(B,156,28)		CKSSYB104K10	
	C 1072	(B,140,59)		CKSSYB104K10			C 1235	(A,159,26)		CKSSYB104K10	
	C 1073	(B,138,57)		CKSSYB104K10			C 1236	(A,159,23)		CKSSYB104K10	
	C 1074	(B,140,51)		CKSSYB104K10			C 1237	(B,130,24)		CKSSYB105K6R3	
D	C 1075	(B,147,56)		CKSSYB104K10			C 1238	(B,155,24)		CKSSYB105K6R3	
	C 1076	(B,141,51)		CKSSYB104K10			C 1239	(B,131,23) 10 uF		DCH1201	
	C 1078	(B,147,55)		CKSSYB104K10			C 1240	(B,157,25) 10 uF		DCH1201	
	C 1079	(B,144,51)		CKSSYB104K10			C 1241	(B,161,38)		CKSSYB104K10	
	C 1080	(B,147,54)		CKSSYB104K10			C 1301	(A,38,64)		CKSSYB103K16	
■	C 1081	(B,145,51)		CKSSYB104K10			C 1302	(A,54,76)		CKSSYB104K16	
	C 1082	(B,147,53)		CKSSYB104K10			C 1303	(A,22,69)		XCEVW470M16	
	C 1083	(B,138,53)		CKSSYB104K10			C 1304	(A,31,65) 0.1 uF		CCG1321	
	C 1084	(B,145,59)		CKSSYB104K10			C 1306	(A,45,68)		XCEVW331M16	
	C 1085	(B,138,54)		CKSSYB104K10			C 1307	(A,119,66)		CKSRYB102K50	
E	C 1087	(B,144,59)		CKSSYB104K10			C 1311	(A,168,83) 0.1 uF		CCG1321	
	C 1088	(B,141,59)		CKSSYB104K10			C 1312	(A,168,93)		XCEVW101M16	
	C 1089	(B,138,56)		CKSSYB104K10			C 1313	(A,169,78)		CKSYB105K35	
	C 1090	(B,138,55)		CKSSYB104K10			C 1314	(A,165,77)		CKSYB475K16	
	C 1093	(B,145,61) 4.7 uF		CCG1201			C 1321	(B,106,73)		CKSSYB102K50	
■	C 1094	(B,161,72)		CKSSYB104K10			C 1322	(A,97,77)		CKSSYB102K50	
	C 1095	(B,138,51)		CKSSYB104K10			C 1323	(A,98,77)		CKSSYB104K16	
	C 1096	(B,138,48)		CKSSYB104K10			C 1324	(A,99,77) 10 uF		DCH1201	
	C 1097	(B,136,48)		CKSSYB105K6R3			C 1325	(A,102,77) 10 uF		DCH1201	
	C 1098	(B,145,48)		CKSSYB105K6R3			C 1326	(A,104,76) 47 uF		CCG1233	
F	C 1099	(B,141,46) 10 uF		DCH1201			C 1327	(A,82,76) 10 uF		CCG1236	
	C 1105	(B,120,49) 10 uF		DCH1201			C 1328	(A,79,76) 10 uF		CCG1236	
	C 1108	(A,129,41)		CCSSCH560J50			C 1329	(B,91,82)		CCSSCH561J50	
	C 1201	(B,129,26)		CKSSYB104K10			C 1330	(B,93,79)		CKSSYB104K10	
	C 1202	(B,129,24)		CKSSYB104K10			C 1331	(B,90,82)		CKSSYB822K16	
	C 1203	(B,128,33)		CKSSYB104K10			C 1332	(B,90,79)		CCSSCH8R0D50	
	C 1204	(B,128,31)		CKSSYB104K10			C 1333	(B,84,73)		CKSYB105K35	
	C 1205	(B,131,31)		CKSSYB104K10			C 1334	(B,88,80)		CKSSYB104K16	
	C 1206	(B,128,30)		CKSSYB104K10			C 1335	(B,88,67)		CKSSYB104K16	
	C 1207	(B,128,28)		CKSSYB104K10			C 1336	(B,90,67)		CCSSCH8R0D50	

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<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>		
C 1337	(B,96,67)	CKSSYB103K16		C 1449	(B,70,69)	CCSSCH271J50		
C 1338	(B,89,65)	CKSSYB103K16		C 1450	(B,62,65)	CKSSYB104K16		
C 1339	(B,93,66)	CKSRYB105K10		C 1463	(A,25,91)	XCEVW221M10		A
C 1340	(B,91,65)	CCSSCH471J50		C 1464	(A,30,81)	CKSQYB225K10		
C 1341	(A,66,82)	CKSSYB102K50		C 1465	(A,31,84)	CKSRYB105K10		
C 1342	(A,68,82) 10 uF	CCG1236		C 1601	(B,150,75)	CKSSYB103K16		
C 1343	(A,79,70) 10 uF	CCG1236		C 1602	(B,149,74)	CKSRYB105K10		
C 1344	(A,59,83) 3 300 uF/16 V	CCH2027		C 1603	(B,156,85)	CKSSYB105K6R3		
C 1345	(A,82,70) 10 uF	CCG1236		C 1604	(B,153,85)	CKSRYB103K50		
C 1347	(A,104,69) 47 uF	CCG1233		C 1606	(A,45,95)	CKSRYB104K16		
C 1348	(A,99,69) 10 uF	DCH1165		C 1607	(A,41,98)	CKSRYB104K16		
C 1349	(A,102,69) 10 uF	DCH1165		C 1608	(A,49,101)	CKSRYB104K16		
C 1350	(A,98,69)	CKSSYB104K16		C 1611	(A,53,61)	CKSQYB225K10		
C 1351	(A,97,69)	CKSSYB102K50		C 1612	(A,51,61)	CKSQYB225K10		B
C 1352	(A,96,69)	CCSSCH101J50		C 1618	(A,50,62)	CKSQYB225K10		
C 1361	(A,81,58)	CKSRYB105K10		C 1619	(A,56,73)	CKSQYB225K10		
C 1362	(A,91,58)	CKSRYB105K10		C 1620	(B,23,60)	CKSRYB105K10		
C 1363	(A,93,59) 10 uF	DCH1201		C 2001	(B,22,22)	CKSRYB104K50		
C 1365	(A,95,21)	CKSRYB104K16		C 2011	(B,70,31)	CKSRYB104K50		
C 1366	(A,90,23)	CEAT471M16		C 2012	(B,69,31)	CCSSCH101J50		
C 1371	(A,117,18)	CKSQYB475K6R3		C 2031	(B,52,35) 4.7 uF	CCG1201		
C 1372	(A,121,18)	CKSQYB475K6R3		C 2032	(B,57,33) 4.7 uF	CCG1201		
C 1381	(B,103,92)	CKSQYB475K6R3		C 2033	(B,48,35)	CCSSCH101J50		
C 1382	(B,94,100)	CKSQYB475K6R3		C 2041	(A,162,25)	CKSRYB104K50		
C 1385	(B,97,101)	CKSRYB105K10		C 2042	(A,166,26)	CKSRYB104K50		C
C 1386	(B,97,103)	CKSRYB105K10		C 2073	(B,153,35) (C,D,E,F,G)	CKSSYB104K10		
C 1391	(A,117,90)	CKSQYB475K6R3		C 2074	(B,150,27) (C,D,E,F,G)	CKSRYB104K50		
C 1392	(A,115,79)	CKSQYB475K6R3		C 2075	(B,150,28) (C,D,E,F,G)	CCSSCH101J50		
C 1393	(A,115,81) 10 uF	DCH1201		C 2093	(A,53,46)	CKSRYB104K16		
C 1396	(A,127,71) 10 uF	DCH1201		C 2101	(B,121,49) 4.7 uF	CCG1201		
C 1397	(A,127,73) 10 uF	DCH1201		C 2102	(B,119,51)	CKSRYB105K10		
C 1401	(A,112,53) 10 uF	DCH1201		C 2103	(A,119,45)	XCEVW220M16		
C 1402	(A,102,52) 10 uF	DCH1201		C 2104	(A,110,41)	CKSRYB105K10		
C 1403	(A,108,43)	CKSSYB392K50		C 2113	(B,126,26)	CCSSCH101J50		
C 1404	(A,107,44)	CKSSYB104K10		C 2114	(B,129,25)	CCSSCH101J50		D
C 1405	(A,117,54) 10 uF	DCH1201		C 2126	(A,129,64) 10 uF	DCH1201		
C 1406	(A,117,56) 10 uF	DCH1201		C 2127	(A,134,64) 10 uF	DCH1201		
C 1407	(A,102,51) 10 uF	DCH1201		C 2129	(A,158,59)	CKSRYB105K10		
C 1408	(A,105,54)	CKSRYB681K50		C 2134	(A,166,48)	XCEVW221M4		
C 1409	(A,111,48)	CCSSCH221J50		C 2135	(A,166,41)	XCEVW221M4		
C 1410	(A,117,53) 10 uF	DCH1201		C 2139	(A,141,54) 10 uF	DCH1201		
C 1411	(A,112,54)	CKSRYB103K50		C 2141	(A,136,47)	CKSSYB104K10		
C 1412	(A,109,74) 10 uF	DCH1201		C 2144	(B,147,55)	CKSSYB104K10		
C 1414	(A,119,71) 10 uF	DCH1201		C 2145	(A,134,48) 10 uF	DCH1201		
C 1415	(A,121,71) 10 uF	DCH1201		C 2169	(A,105,27)	CKSQYB225K16		
C 1416	(A,112,51) 10 uF	DCH1201		C 2170	(A,105,29)	CKSQYB225K16		E
C 1417	(A,102,49) 10 uF	DCH1201		C 2171	(A,105,31)	CKSQYB225K16		
C 1431	(A,100,15)	CKSSYB102K50		C 2172	(A,105,33)	CKSQYB225K16		
C 1432	(A,98,9)	XCEVW101M16		C 2173	(A,108,34)	CKSQYB225K16		
C 1433	(A,105,8)	CKSRYB105K10		C 6001	(A,57,10)	CCSSCH330J50		
C 1434	(A,101,17)	CKSSYB104K10		C 6002	(A,49,14)	CCSSCH6R0D50		
C 1435	(A,111,27)	CKSSYB103K16		C 6003	(A,47,14)	CKSSYB103K16		
C 1436	(A,78,65)	XCEVW100M16		C 6004	(A,55,15)	CKSSYB104K10		
C 1437	(A,75,60)	CKSSYB103K16		C 6005	(A,57,18)	CKSSYB104K10		
C 1441	(B,69,84)	CKSSYB104K16		C 6006	(A,48,17)	CKSSYB103K16		
C 1444	(B,68,67)	CKSSYB103K16		C 6007	(A,56,18)	CKSSYB104K10		
C 1445	(B,68,76) 4.7 uF	CCG1222		C 6008	(A,64,13)	CCSSCJ3R0C50		F
C 1446	(B,68,69)	CKSRYB104K16		C 6009	(A,50,20)	CKSSYB103K16		
C 1447	(B,65,65)	CKSSYB104K16		C 6010	(A,56,19)	CKSSYB103K16		
C 1448	(B,64,64) 4.7 uF	CCG1222		C 6011	(A,59,18)	CKSSYB103K16		

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

C 6012 (A,60,15) 10 uF

DCH1201

Q 1103 (B,10,63) Transistor

2SB1132

C 6013 (A,51,18)

CKSSYB103K16

Q 1104 (B,22,54) Transistor

2SB1132

C 6014 (A,52,17)

CKSRYB105K10

L 1501 (A,54,31) Inductor

CTF1743

C 6015 (A,59,10)

CKSSYB103K16

L 1511 (A,48,17) Chip Beads

VTL1126

C 6016 (A,67,33)

CKSRYB104K16

L 1902 (A,17,17) Inductor

CTF1487

C 6017 (A,60,19)

CKSSYB223K16

L 1903 (B,63,16) Inductor

CTF1558

C 6018 (A,50,19)

CKSSYB223K16

L 1904 (A,68,18) Ferrite Bead

CTF1528

C 6020 (B,59,32)

CKSSYB102K50

X 1501 (B,48,18) Oscillator 27.000 MHz

CSS1823

C 6021 (A,64,20) 10 uF

DCH1201

F 1001 (A,14,19) Chip EMI Filter

DTF1106

C 6022 (A,63,23)

CKSSYB104K10

F 1002 (B,63,18) Chip EMI Filter

DTL1106

C 6023 (A,66,23)

CCSSCH101J50

S 1 (A,47,55) Spring Switch(HOME)

CSN1080

C 6024 (A,63,26)

CKSSYB104K10

S 3 (B,25,13) Spring Switch(12EJ)

CSN1081

C 6025 (A,65,24)

CKSSYB103K16

VR1101 (A,7,63) Semi-fixed 6.8 kohm(B)

CCP1447

C 6026 (A,66,29)

CCSSCH820J50

VR1102 (A,7,60) Semi-fixed 15 kohm(B)

CCP1449

C 6027 (A,64,30) 2.2 uF

CCG1205

CN1101 (A,21,63) Connector

CKS6331

C 6030 (A,64,34)

CKSSYB104K10

CN1952 (A,42,11) Connector

CKS6025

C 6031 (A,62,33)

CKSSYB104K10

RESISTORS

C 6032 (A,61,34)

CKSSYB104K10

R 1004 (B,12,20)

RS1/16SS4702D

C 6033 (A,57,34)

CKSSYB104K10

R 1007 (B,12,21)

RS1/16SS6801D

C 6034 (A,52,34)

CKSSYB104K10

R 1019 (B,34,7)

RS1/16SS101J

C 6035 (A,52,35) 2.2 uF

CCG1205

R 1025 (B,36,6)

RS1/16SS101J

C 6036 (A,49,33)

CKSSYB104K10

R 1027 (A,40,18)

RS1/16SS101J

C 6038 (A,46,34) 2.2 uF

CCG1205

C 6040 (A,42,32)

CCSSCH100D50

R 1101 (B,15,57)

RS1/16SS104J

C 6041 (A,40,27)

CCSSCH100D50

R 1102 (B,10,56)

RS1/16SS104J

C 6042 (A,46,27)

CKSSYB104K10

R 1103 (B,14,61)

RS1/16SS4300F

C 6043 (B,43,12)

CKSSYB102K50

R 1104 (B,11,59)

RS1/16SS5100F

C 6044 (B,40,11)

CKSSYB102K50

R 1105 (B,17,54)

RS1/16SS4300F

C 6045 (A,43,24)

CKSRYB105K10

R 1106 (B,10,57)

RS1/16SS5600F

C 6046 (A,47,24)

CKSSYB224K6R3

R 1109 (B,6,57)

RS1/16SS3R3J

C 6047 (A,47,22)

CKSRYB224K16

R 1110 (B,16,54)

RS1/16SS3R3J

C 6048 (A,48,22)

CKSSYB223K16

R 1111 (B,6,63)

RS1/10SR3R3J

C 6049 (A,56,15)

CKSSYB223K16

R 1112 (B,5,58)

RS1/10SR3R3J

C 6052 (A,64,28)

CKSSYB104K10

R 1113 (B,15,59)

RS1/10SR3R9J

C 6056 (B,41,10)

CCSSCH100D50

R 1114 (B,19,57)

RS1/10SR3R3J

C 6057 (B,44,11)

CCSSCH100D50

R 1115 (B,6,61)

RS1/10SR2R7J

C 6058 (A,45,11)

CKSSYB103K16

R 1116 (B,6,62)

RS1/10SR2R7J

C 6059 (A,38,17)

CKSSYB103K16

R 1117 (B,17,59)

RS1/10SR3R9J

C 6063 (A,44,22)

CKSSYB103K16

R 1118 (B,16,59)

RS1/10SR3R9J

R 1223 (A,42,50)

RS1/16SS561J

R 1225 (B,29,8)

RS1/16SS471J

R 1251 (A,5,48)

RS1/16SS333J

R 1252 (A,5,47)

RS1/16SS473J

R 1253 (A,5,46)

RS1/16SS333J

R 1254 (A,5,45)

RS1/16SS473J

R 1255 (A,21,48)

RS1/16SS183J

R 1256 (A,21,46)

RS1/16SS752J

R 1257 (B,8,37)

RS1/16SS221J

IC 1002 (B,15,13) Regulator IC

S-1133B50-U5

R 1258 (A,19,39)

RS1/16SS221J

IC 1003 (B,37,11) IC

S-1200B50-M5

R 1401 (B,34,28)

RS1/16SS221J

IC 1004 (B,64,28) IC

NJM2855DL1-33

R 1402 (B,34,47)

RS1/16SS104J

IC 1251 (A,12,42) IC

BA5839FP

R 1405 (B,55,35)

RS1/16SS104J

IC 1401 (B,27,41) Flash ROM Unit

CWW5043

R 1406 (B,39,45)

RS1/16SS472J

IC 1402 (B,45,28) Flash ROM Unit

CWW5044

R 1480 (A,72,24)

RAB4CQ560J

IC 1480 (A,64,30) RAM IC

M12L64164A-5TG2Y

R 1481 (A,72,28)

RAB4CQ560J

IC 1501 (A,39,33) IC

MN2DS0018MA

R 1482 (A,72,32)

RAB4CQ560J

IC 1801 (B,34,16) D/A Converter

PCM1753DBQ

R 1483 (A,72,35)

RAB4CQ560J

IC 1953 (B,57,17) IC

S-1135D12-A6

R 1484 (A,72,39)

RAB4CQ560J

Q 1101 (B,13,59) Transistor

LSCR523UB

R 1485 (A,55,22)

RAB4CQ560J

Q 1102 (B,13,56) Transistor

LSCR523UB

C**Unit Number : YWX5033****Unit Name : DVD Core Unit****MISCELLANEOUS**

IC 1002 (B,15,13) Regulator IC

S-1133B50-U5

IC 1003 (B,37,11) IC

S-1200B50-M5

IC 1004 (B,64,28) IC

NJM2855DL1-33

IC 1251 (A,12,42) IC

BA5839FP

IC 1401 (B,27,41) Flash ROM Unit

CWW5043

IC 1402 (B,45,28) Flash ROM Unit

CWW5044

IC 1480 (A,64,30) RAM IC

M12L64164A-5TG2Y

IC 1501 (A,39,33) IC

MN2DS0018MA

IC 1801 (B,34,16) D/A Converter

PCM1753DBQ

IC 1953 (B,57,17) IC

S-1135D12-A6

Q 1101 (B,13,59) Transistor

LSCR523UB

Q 1102 (B,13,56) Transistor

LSCR523UB

AVH-X8500BHS/XNUC

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<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	
R 1486 (A,55,28)	RAB4CQ560J	CAPACITORS		
R 1487 (A,56,37)	RAB4CQ560J	C 1001 (B,34,10)	CKSRYB105K10	
R 1488 (A,55,40)	RAB4CQ560J	C 1002 (B,12,17)	CKSSYB104K16	A
R 1489 (A,54,30)	RS1/16SS560J	C 1003 (B,15,19)	CKSSYB104K16	
		C 1004 (B,15,17) 4.7 uF	CCG1201	
R 1490 (A,72,21)	RS1/16SS560J	C 1005 (B,40,11)	CKSRYB105K16	
R 1501 (B,48,21)	RS1/16SS122J			
R 1503 (B,46,21)	RS1/16SS105J	C 1010 (B,60,23)	CKSQYB225K10	
R 1504 (A,50,17)	RS1/16SS121J	C 1011 (B,64,22)	CKSRYB105K10	
R 1505 (B,45,15)	RS1/16SS101J	C 1015 (A,25,7)	CKSSYB102K50	
		C 1016 (B,64,15)	CKSSYB102K50	
R 1506 (B,45,14)	RS1/16SS101J	C 1018 (B,14,21)	CKSSYB104K10	
R 1507 (B,43,17)	RS1/16SS101J			
R 1508 (B,42,18)	RS1/16SS221J	C 1040 (B,51,7)	CCSRCH821J50	
R 1509 (A,20,34)	RS1/16SS102J	C 1041 (B,19,11)	CCSRCH271J50	
R 1510 (A,11,29)	RS1/16SS102J	C 1101 (B,14,53) 10 uF	CCG1192	B
		C 1104 (B,7,57)	CKSSYB104K10	
R 1512 (A,55,32)	RS1/16SS470J	C 1105 (B,18,54)	CKSSYB104K10	
R 1513 (A,23,38)	RS1/16SS103J			
R 1514 (A,24,40)	RS1/16SS183J	C 1106 (B,8,66)	CKSSYB103K16	
R 1516 (A,24,36)	RS1/16SS104J	C 1107 (B,25,53)	CKSSYB103K16	
R 1517 (B,57,22)	RS1/16SS103J	C 1108 (A,19,57)	CKSSYB103K16	
		C 1109 (A,7,57)	CKSRYB224K16	
R 1518 (B,33,31)	RS1/16SS103J	C 1110 (A,17,58)	CKSSYB103K16	
R 1519 (A,24,43)	RS1/16SS102J			
R 1522 (A,21,37)	RS1/16SS104J	C 1111 (A,9,66)	CKSRYB224K16	
R 1523 (A,22,37)	RS1/16SS221J	C 1112 (B,17,52) 22 uF	DCH1256	
R 1524 (B,29,33)	RS1/16SS472J	C 1113 (B,8,58) 22 uF	DCH1256	
		C 1210 (B,77,34)	CKSSYB104K16	C
R 1525 (A,24,44)	RS1/16SS103J	C 1251 (B,12,41)	CEVW101M16	
R 1526 (A,22,40)	RS1/16SS103J			
R 1527 (A,35,49)	RS1/16SS682J	C 1252 (B,7,41) 4.7 uF	CCG1222	
R 1528 (B,19,34)	RS1/16SS103J	C 1253 (B,7,39)	CKSSYB104K16	
R 1529 (B,35,21)	RS1/16SS103J	C 1254 (A,6,38)	CKSSYB104K16	
		C 1255 (A,18,37)	CKSSYB104K16	
R 1530 (B,17,34)	RS1/16SS103J	C 1401 (B,34,27)	CKSSYB104K16	
R 1531 (B,33,30)	RS1/16SS103J			
R 1532 (A,24,42)	RS1/16SS101J	C 1403 (B,39,40)	CKSSYB104K10	
R 1533 (A,29,47)	RS1/16SS104J	C 1404 (B,40,40) 4.7 uF	CCG1201	
R 1534 (B,29,48)	RS1/16SS221J	C 1408 (B,57,27)	CKSSYB104K10	
		C 1409 (B,58,29) 4.7 uF	CCG1201	
R 1535 (A,22,44)	RS1/16SS104J	C 1410 (B,33,29)	CKSSYB104K16	D
R 1536 (B,32,48)	RS1/16SS104J			
R 1537 (A,24,46)	RS1/16SS104J	C 1480 (A,71,19)	CKSSYB104K10	
R 1538 (A,55,35)	RS1/16SS104J	C 1481 (A,72,22)	CKSSYB104K10	
R 1539 (B,33,48)	RS1/16SS104J	C 1482 (A,72,26)	CKSSYB104K10	
		C 1484 (A,72,30)	CKSSYB104K10	
R 1540 (A,26,46)	RS1/16SS221J	C 1485 (A,72,41)	CKSSYB104K10	
R 1541 (A,26,45)	RS1/16SS221J			
R 1542 (B,26,34)	RS1/16SS103J	C 1487 (A,57,29)	CKSSYB104K10	
R 1546 (A,33,49)	RS1/16SS682J	C 1488 (A,57,25)	CKSSYB104K10	
R 1601 (A,32,17)	RS1/16SS123J	C 1489 (A,64,17) 10 uF	CCG1192	
		C 1490 (A,66,18)	CKSSYB102K50	
R 1602 (A,32,18)	RS1/16SS123J	C 1501 (B,61,20) 10 uF	CCG1192	E
R 1603 (B,31,21)	RS1/16SS1002D			
R 1604 (A,23,21)	RS1/16SS105J	C 1502 (B,54,20) 10 uF	CCG1192	
R 1605 (A,22,23)	RS1/16SS105J	C 1503 (A,54,33)	CKSSYB104K10	
R 1670 (B,40,21)	RS1/16SS1002D	C 1504 (A,53,24)	CKSSYB104K10	
		C 1505 (A,53,27)	CKSSYB104K10	
R 1671 (B,42,19)	RS1/16SS2402D	C 1506 (B,52,35)	CKSSYB104K10	
R 1672 (A,39,18)	RS1/16SS2000D			
R 1674 (A,36,17)	RS1/16SS3002D	C 1507 (A,53,36)	CKSSYB104K10	
R 1801 (B,41,8)	RS1/16SS104J	C 1508 (A,53,39)	CKSSYB104K10	
R 1802 (B,43,8)	RS1/16SS104J	C 1509 (A,53,42)	CKSSYB104K10	
		C 1510 (B,51,18)	CCSSCH100D50	
R 1803 (B,37,13)	RS1/16SS821J	C 1511 (A,48,18)	CKSSYB104K10	
R 1804 (B,39,14)	RS1/16SS821J			
R 1982 (A,10,62)	RS1/16SS822J	C 1512 (B,45,18)	CCSSCH100D50	F
R 1983 (B,40,20)	RS1/16SS1000D	C 1513 (A,48,48)	CKSSYB104K10	
R 1987 (B,43,21)	RS1/16SS0R0J	C 1514 (B,45,21)	CKSSYB104K10	

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

C 1515 (A,45,18)
C 1516 (A,43,48)

CKSSYB104K10
CKSSYB104K10

IC 4200 (A,23,58) IC
IC 4300 (A,55,77) IC

PDY087A8
R1290K103A

A

C 1517 (A,42,48)
C 1518 (A,38,48)
C 1519 (A,34,47)
C 1520 (A,27,47)
C 1521 (A,24,34)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

Q 4051 (A,136,16) Transistor
Q 4131 (A,140,13) Chip Transistor
Q 4132 (A,145,11) Transistor
Q 4300 (A,62,71) Transistor
Q 4301 (A,55,85) Transistor

LSAR523UB
HN1C01FU
LSCR523UB
LTC014EEB
2SA1577

C 1522 (A,25,38)
C 1523 (A,20,46)
C 1524 (A,20,48)
C 1526 (A,24,37)
C 1528 (B,30,48)

CKSSYB104K10
CKSSYB224K6R3
CKSSYB473K16
CKSSYB103K16
CCSSCH471J50

Q 4401 (A,9,63) Transistor
D 4001 (A,140,64) Diode
D 4300 (A,46,84) Diode
D 4301 (A,65,77) Diode
D 4302 (A,68,83) Diode

LSAR523UB
DB2X41400
RB162M-40
RB548W
RB548W

B

C 1601 (A,32,19)
C 1602 (A,34,17)
C 1603 (A,33,18)
C 1604 (A,30,17)
C 1605 (A,30,18)

CKSSYB103K16
CCSSCH101J50
CCSSCH101J50
CCSSCH680J50
CCSSCH680J50

D 4303 (A,63,84) Diode
L 4002 (A,135,64) Inductor
L 4004 (A,136,68) Chip Beads
L 4151 (A,133,25) Ferrite Bead
L 4201 (A,13,58) Chip Beads

RB548W
CTH1526
VTL1126
CTF1528
VTL1127

C 1606 (A,35,19)
C 1607 (A,20,24) 10 uF
C 1608 (A,28,18) 4.7 uF
C 1609 (A,26,22)
C 1612 (A,24,24)

CKSSYB104K10
CCG1192
CCG1201
CKSSYB104K10
CKSSYB104K10

L 4202 (A,13,57) Chip Beads
L 4203 (A,11,57) Chip Beads
L 4204 (A,12,56) Chip Beads
L 4205 (A,12,53) Chip Beads
L 4206 (A,16,47) Chip Beads

VTL1127
VTL1127
VTL1127
VTL1127
VTL1127

C

C 1613 (A,24,25)
C 1614 (A,22,24)
C 1615 (A,23,26)
C 1616 (A,24,27)
C 1617 (B,27,28)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

L 4207 (A,17,48) Chip Beads
L 4208 (A,18,47) Chip Beads
L 4209 (A,19,46) Chip Beads
L 4210 (A,19,47) Chip Beads
L 4211 (A,20,45) Chip Beads

VTL1127
VTL1127
VTL1127
VTL1127
VTL1127

C 1618 (A,22,29)
C 1619 (A,23,30)
C 1620 (B,27,30)
C 1621 (A,22,31)
C 1622 (A,24,31)

CCSSCH101J50
CKSSYB562K25
CKSSYB224K6R3
CKSSYB224K6R3
CKSSYB333K16

L 4212 (A,21,47) Chip Beads
L 4213 (A,21,45) Chip Beads
L 4214 (A,22,47) Chip Beads
L 4215 (A,23,46) Chip Beads
L 4216 (A,23,48) Chip Beads

VTL1127
VTL1127
VTL1127
VTL1127
VTL1127

D

C 1623 (A,27,20)
C 1624 (A,24,32)
C 1625 (A,24,29)
C 1671 (A,41,18)
C 1673 (A,37,19)

CKSRYB105K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

L 4217 (A,25,46) Chip Beads
L 4218 (A,25,48) Chip Beads
L 4219 (A,27,47) Chip Beads
L 4220 (A,30,47) Chip Beads
L 4221 (A,30,48) Chip Beads

VTL1127
VTL1127
VTL1127
VTL1127
VTL1127

C 1674 (B,42,20)
C 1676 (B,38,21)
C 1801 (B,42,10) 4.7 uF
C 1802 (B,46,10) 4.7 uF
C 1803 (B,42,12)

CKSSYB104K10
CKSRYB105K10
CCG1201
CCG1201
CCSRCH182J50

L 4222 (A,32,48) Chip Beads
L 4223 (A,32,49) Chip Beads
L 4224 (A,30,50) Chip Beads
L 4225 (A,33,52) Chip Beads
L 4226 (A,33,59) Chip Beads

VTL1127
VTL1127
VTL1127
VTL1127
VTL1126

E

C 1804 (B,45,12)
C 1805 (B,34,13)
C 1806 (B,32,13) 10 uF
C 1809 (B,39,16)
C 1953 (B,60,17)

CCSRCH182J50
CKSSYB104K10
CCG1192
CKSSYB104K10
CKSRYB105K10

L 4300 (A,52,82) Choke Coil 22 uH
L 4400 (A,17,41) Inductor
L 4401 (A,15,38) Inductor
L 4402 (A,11,36) Inductor
L 4403 (A,8,34) Chip Ferrite Bead

CTH1426
CTF1635
DTL1096
DTL1096
BTX1042

C 1954 (B,54,17)
C 1955 (B,77,40)

CKSRYB105K10
CKSSYB104K16

L 4404 (A,7,70) Inductor
TH4001 (A,141,6) Thermistor
CN4001 (A,126,57) Connector
CN4051 (A,91,44) Connector
CN4052 (A,64,44) Connector

LCTAW101J2520
CCX1058
CKS6523
CKS6365
CKS6365

Unit Number: YXX5128**Unit Name : Monitor Unit(Service)****MISCELLANEOUS**

IC 4001 (A,138,74) IC
IC 4051 (A,93,74) IC
IC 4151 (A,132,20) IC

BD81A04EFV-M
NJM2886DL3-33
AK4187VN

RESISTORS

AVH-X8500BHS/XNUC

5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
R 4002	(A,140,80)	RS1/16SS273J		R 4254	(A,31,34)	RS1/16SS121J	A
R 4003	(A,141,80)	RS1/16SS511J		R 4255	(A,25,41)	RS1/16SS121J	
R 4005	(A,132,72)	RS1/16SS1503D		R 4256	(A,26,41)	RS1/16SS121J	
R 4006	(A,131,73)	RS1/16SS1003D		R 4257	(A,27,41)	RS1/16SS121J	
R 4007	(B,146,67)	RS1/16SS101J		R 4258	(A,28,42)	RS1/16SS121J	
R 4012	(A,129,71)	RS1/16SS3603D		R 4259	(A,29,41)	RS1/16SS121J	
R 4013	(A,128,73)	RS1/16SS2402D		R 4260	(A,29,43)	RS1/16SS121J	
R 4019	(A,131,77)	RS1/16SS104J		R 4261	(A,30,41)	RS1/16SS121J	
R 4020	(A,131,76)	RS1/16SS154J		R 4262	(A,31,43)	RS1/16SS121J	
R 4022	(A,137,68)	RS1/16SS2R2J		R 4263	(A,31,41)	RS1/16SS121J	
R 4051	(A,110,38)	RS1/16SS0R0J		R 4264	(A,32,43)	RS1/16SS121J	B
R 4052	(A,110,36)	RS1/16SS0R0J		R 4265	(A,33,41)	RS1/16SS0R0J	
R 4053	(A,130,16)	RS1/16SS104J		R 4266	(A,34,43)	RS1/16SS121J	
R 4054	(A,133,15)	RS1/16SS104J		R 4267	(A,34,41)	RS1/16SS121J	
R 4130	(A,115,78)	RS1/16SS0R0J		R 4268	(A,35,43)	RS1/16SS121J	
R 4131	(A,142,16)	RS1/16SS181J		R 4269	(A,36,41)	RS1/16SS121J	
R 4134	(A,141,16)	RS1/16SS222J		R 4270	(A,36,42)	RS1/16SS121J	
R 4135	(A,139,10)	RS1/16SS471J		R 4271	(A,37,41)	RS1/16SS121J	
R 4138	(A,140,10)	RS1/16SS222J		R 4272	(A,38,42)	RS1/16SS121J	
R 4139	(A,144,14)	RS1/16SS181J		R 4273	(A,36,48)	RS1/16SS121J	
R 4142	(A,145,14)	RS1/16SS222J		R 4275	(A,13,64)	RS1/16SS0R0J	C
R 4143	(A,114,45)	RS1/16SS473J		R 4276	(A,17,68)	RS1/16SS0R0J	
R 4151	(A,135,18)	RS1/16SS472J		R 4277	(A,12,62)	RS1/16SS0R0J	
R 4152	(A,136,20)	RS1/16SS472J		R 4278	(A,15,49)	RS1/16SS474J	
R 4153	(A,135,21)	RS1/16SS103J		R 4280	(A,25,36)	RS1/16SS121J	
R 4154	(A,131,17)	RS1/16SS620J		R 4300	(A,47,72)	RS1/16SS103J	
R 4155	(A,127,20)	RS1/16SS0R0J		R 4301	(A,46,74)	RS1/16SS0R0J	
R 4156	(A,127,19)	RS1/16SS0R0J		R 4303	(A,58,78)	RS1/16SS9101D	
R 4157	(A,131,24)	RS1/16SS201J		R 4304	(A,60,79)	RS1/16SS1003D	
R 4158	(A,128,20)	RS1/16SS181J		R 4305	(A,58,73)	RS1/16SS3302D	
R 4159	(A,128,21)	RS1/16SS621J		R 4306	(A,59,72)	RS1/16SS4701D	
R 4200	(A,13,69)	RS1/16SS0R0J		R 4307	(A,60,72)	RS1/16SS6800D	
R 4202	(A,17,45)	RS1/16SS470J		R 4308	(A,64,70)	RS1/16SS0R0J	
R 4226	(A,37,53)	RS1/16SS391J		R 4309	(A,55,82)	RS1/16SS103J	
R 4227	(A,35,53)	RS1/16SS391J		R 4311	(A,59,76)	RS1/16SS9102D	
R 4228	(A,37,55)	RS1/16SS391J		R 4312	(A,59,75)	RS1/16SS1802D	D
R 4229	(A,35,55)	RS1/16SS391J		R 4313	(A,55,70)	RS1/16SS203J	
R 4230	(A,36,56)	RS1/16SS391J		R 4314	(A,56,69)	RS1/16SS104J	
R 4231	(A,36,57)	RS1/16SS391J		R 4322	(A,57,73)	RS1/16SS472J	
R 4232	(A,34,58)	RS1/16SS0R0J		R 4323	(A,48,74)	RS1/16SS1203D	
R 4233	(A,33,60)	RS1/16SS391J		R 4324	(A,51,74)	RS1/16SS3001D	
R 4234	(A,35,61)	RS1/16SS391J		R 4325	(A,47,73)	RS1/16SS472J	
R 4235	(A,33,62)	RS1/16SS391J		R 4326	(A,51,72)	RS1/16SS1502D	
R 4236	(A,35,62)	RS1/16SS391J		R 4327	(A,66,66)	RS1/16SS0R0J	
R 4237	(A,34,63)	RS1/16SS391J		R 4328	(A,68,66)	RS1/16SS0R0J	
R 4238	(A,36,64)	RS1/16SS391J		R 4329	(A,65,66)	RS1/16SS0R0J	E
R 4239	(A,34,64)	RS1/16SS391J		R 4330	(A,16,72)	RS1/16SS0R0J	
R 4240	(A,36,65)	RS1/16SS391J		R 4331	(A,50,80)	RS1/16SS0R0J	
R 4241	(A,34,66)	RS1/16SS391J		R 4400	(A,17,37)	RS1/16SS473J	
R 4242	(A,35,67)	RS1/16SS391J		R 4401	(A,14,35)	RS1/16SS473J	
R 4243	(A,31,68)	RS1/16SS391J		R 4403	(A,25,35)	RS1/16SS473J	
R 4244	(A,31,69)	RS1/16SS391J		R 4404	(A,44,41)	RS1/16SS4R7J	
R 4245	(A,31,70)	RS1/16SS391J		R 4405	(A,44,42)	RS1/16SS56R0D	
R 4246	(A,26,68)	RS1/16SS391J		R 4406	(A,44,43)	RS1/16SS1800D	
R 4247	(A,51,57)	RS1/16SS101J		R 4407	(A,43,44)	RS1/16SS2R2J	
R 4248	(A,26,72)	RS1/16SS102J		R 4408	(A,44,45)	RS1/16SS47R0D	F
R 4249	(A,24,68)	RS1/16SS473J		R 4409	(A,43,46)	RS1/16SS0R0J	
R 4251	(A,22,34)	RS1/16SS121J		R 4410	(A,44,47)	RS1/16SS39R0D	
R 4252	(A,22,36)	RS1/16SS121J		R 4411	(A,43,48)	RS1/16SS4R7J	
R 4253	(A,11,55)	RS1/16SS121J		R 4412	(A,44,49)	RS1/16SS1000D	

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Circuit Symbol and No.

R 4413 (A,43,50)
R 4414 (A,44,51)
R 4415 (A,43,52)
R 4416 (A,44,53)
R 4417 (A,43,54)

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Part No.

RS1/16SS8R2J
RS1/16SS1300D
RS1/16SS0R0J
RS1/16SS1000D
RS1/16SS8R2J

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Circuit Symbol and No.

C 4307 (A,58,70)
C 4308 (A,50,70)
C 4309 (A,52,70)
C 4310 (A,64,76)
C 4311 (A,63,78)

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Part No.

CKSRYB105K10
CKSRYB123K50
CKSSYB104K10
CKSRYB104K50
CKSRYB105K10

R 4418 (A,44,55)
R 4419 (A,43,57)
R 4420 (A,42,56)
R 4421 (A,41,57)
R 4422 (A,40,56)

RS1/16SS39R0D
RS1/16SS4R7J
RS1/16SS47R0D
RS1/16SS0R0J
RS1/16SS1800D

C 4312 (A,70,82)
C 4313 (A,67,85)
C 4314 (A,66,82)
C 4315 (A,65,85)
C 4316 (A,49,75)

CKSQYB105K25
CKSRYB104K50
CKSQYB105K25
CKSRYB104K50
CKSSYB105K6R3

R 4423 (A,40,54)
R 4424 (A,39,51)
R 4425 (A,38,52)
R 4427 (A,9,68)
R 4428 (A,7,62)

RS1/16SS2R2J
RS1/16SS33R0D
RS1/16SS2R4J
RS1/16SS105J
RS1/16SS682J

C 4317 (A,49,77)
C 4318 (A,42,86)
C 4321 (A,54,72)
C 4322 (A,51,73)
C 4323 (A,59,83)

CKSSYB102K50
CKSQYB475K6R3
CKSSYB102K50
CKSSYB102K50
CKSYB475K16

R 4429 (A,9,60)
R 4431 (A,8,69)
R 4432 (A,7,60)
R 4433 (A,8,71)
R 4434 (A,24,35)

RS1/16SS0R0J
RS1/16SS472J
RS1/16SS101J
RS1/16SS0R0J
RS1/16SS473J

C 4408 (A,45,51)
C 4409 (A,45,52)
C 4410 (A,45,53)
C 4411 (A,45,54)
C 4420 (A,30,34)

CKSSYB102K50
CKSSYB104K16
CKSSYB102K50
CKSSYB104K16
CKSSYB102K50

R 4437 (A,8,58)

RS1/16SS0R0J

C 4422 (A,28,36)
C 4424 (A,23,39) 10 uF
C 4425 (A,14,40)
C 4428 (A,26,35)
C 4429 (A,26,36)

CKSSYB104K16
CCG1236
CKSSYB102K50
CKSSYB102K50
CKSSYB104K10

CAPACITORS

C 4003 (A,144,73) 2.2 uF
C 4004 (A,142,80)
C 4005 (A,126,66) 10 uF
C 4006 (A,141,81)
C 4008 (A,144,64) 10 uF

CCG1218
CKSSYB104K10
CCG1236
CKSSYB104K10
CCG1236

C 4430 (A,18,38) 10 uF
C 4433 (A,19,34)
C 4434 (A,11,32) 4.7 uF
C 4436 (A,10,38)
C 4438 (A,16,34)

CCG1234
CKSSYB104K16
CCG1201
CKSQYB225K16
CKSRYB104K50

C 4011 (A,140,6)
C 4012 (A,139,68)
C 4051 (A,95,65)
C 4052 (A,90,64)
C 4053 (A,88,66) 10 uF

CKSSYB104K10
CKSSYB332K50
CKSQYB475K6R3
CKSRYB105K10
DCH1201

C 4439 (A,7,32)
C 4441 (A,15,33)
C 4442 (A,8,66) 10 uF
C 4443 (A,7,63)
C 4444 (A,37,75)

CKSQYB334K50
CKSSYB104K16
CCG1236
CKSSYB104K16
CKSRYB102K50

C 4054 (A,94,67)
C 4056 (A,80,61)
C 4151 (A,138,20)
C 4152 (A,139,21) 10 uF
C 4153 (A,131,25)

CKSSYB102K50
CKSRYB474K10
CKSSYB104K10
DCH1201
CKSSYB104K10

C 4155 (A,130,27) 10 uF
C 4157 (A,130,24)
C 4158 (A,128,22)
C 4159 (A,129,18)
C 4160 (A,132,17)

DCH1201
CKSSYB103K16
CKSSYB103K16
CKSSYB103K16
CKSSYB103K16

C 4200 (A,20,49)
C 4201 (A,27,49)
C 4202 (A,32,57)
C 4203 (A,32,59)
C 4204 (A,27,68)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

C 4205 (A,20,68)
C 4206 (A,13,59)
C 4207 (A,13,61)
C 4208 (A,12,67) 10 uF
C 4209 (A,17,44)

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
DCH1201
CCSSCJ3R0C50

C 4211 (A,14,47)
C 4302 (A,46,81)
C 4304 (A,60,80)
C 4305 (A,64,74)
C 4306 (A,64,73)

CKSSYB104K10
CKSYB475K16
CKSSYB561K50
CKSSYB683K10
CCSQCH101J50

**Unit Number : YXX5126****Unit Name : Key Unit(Service)****MISCELLANEOUS**

D 5002	(A,125,5) LED	SMLVN6RGB2U(A)
D 5003	(A,45,5) LED	SMLVN6RGB2U(A)
S 5001	(A,8,5) Switch	VSG1020
S 5002	(A,148,5) Switch	VSG1020
S 5003	(A,65,5) Switch	VSG1020
S 5004	(A,57,5) Switch	VSG1020
S 5005	(A,33,5) Switch	VSG1020
S 5006	(A,22,5) Switch	VSG1020
S 5007	(A,136,5) Switch	VSG1020
S 5008	(A,113,5) Switch	VSG1020
S 5009	(A,104,5) Switch	VSG1020
S 5010	(A,85,6) Switch	VSG1020
U 5021	(A,161,6) Remote Receiver Unit	RS-470
CN5001	(B,33,6) Connector	CKS6291

RESISTORS

R 5001	(A,71,4)	RS1/16SS182J
R 5002	(A,61,4)	RS1/16SS222J
R 5003	(A,53,4)	RS1/16SS472J

1

2

3

4

5
Circuit Symbol and No.

R 5004 (A,25,5)
R 5005 (A,116,4)

R 5006 (A,108,4)
R 5007 (A,96,5)
R 5021 (A,155,4)

CAPACITORS

C 5022 (A,155,5)



Unit Number : YXX5127

Unit Name : Case Unit(Service)

MISCELLANEOUS

CN3001 (A,23,13) Connector
CN3002 (A,51,13) Connector
CN3003 (A,59,37) Connector



Unit Number : YXX5129

Unit Name : SW Unit(Service)

MISCELLANEOUS

S 8201 (A,17,6) Lever Switch
S 8202 (A,20,24) Lever Switch
CN8201 (A,6,24) Connector



Unit Number : YWM5608

Unit Name : HDMI Unit

MISCELLANEOUS

IC 1 (A,56,14) IC
IC 2 (A,53,7) IC
IC 3 (B,20,11) IC
IC 4 (B,13,7) 1 Chip or Gate
IC 10 (A,27,11) IC
Q 1 (A,44,19) Transistor
Q 2 (A,42,21) Transistor

D 2 (A,30,19) Diode
D 3 (A,28,19) Diode
D 4 (A,28,21) Diode
D 5 (A,26,21) Diode
D 6 (A,26,19) Diode

D 7 (A,24,19) Diode
D 8 (A,24,21) Diode
D 9 (A,22,21) Diode
D 10 (A,37,20) Diode
D 11 (A,32,20) Diode

D 12 (A,36,19) Diode
D 13 (A,60,22) Diode
D 14 (A,38,14) Diode
L 1 (A,25,18) Filter
L 2 (A,23,18) Filter

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Part No.

RS1/16SS182J
RS1/16SS222J

RS1/16SS472J
RS1/16SS123J
RS1/16SS470J

CKSSYB104K16

CKS6366
CKS6366
CKS6300

CSN1085
CSN1086
DKN1220

S-1172B33-E6
S-1172B12-E6
WM8761BGED
TC7SH32FUS1
MN864779KT
LTC014EEB
LSAR523UB

EZAEG2A50AX
EZAEG2A50AX
EZAEG2A50AX
EZAEG2A50AX
EZAEG2A50AX

EZAEG2A50AX
EZAEG2A50AX
EZAEG2A50AX
EZAEG2A50AX
EZAEG2A50AX

EZAEG2A50AX
CRG03
DA2J101
CTF1834
CTF1834

7
Circuit Symbol and No.

L 3 (A,29,18) Filter
L 4 (A,27,18) Filter
L 5 (A,47,20) Ferrite Bead
L 6 (B,19,5) Chip Ferrite Bead
L 7 (A,34,22) Ferrite Bead

L 8 (A,20,10) Chip Beads
L 9 (A,23,5) Chip Beads
L 10 (A,24,5) Chip Beads
L 11 (A,25,5) Chip Beads
L 12 (A,26,5) Chip Beads

L 13 (A,27,5) Chip Beads
L 14 (A,28,5) Chip Beads
L 15 (A,29,5) Chip Beads
L 16 (A,30,5) Chip Beads
L 17 (A,33,5) Chip Beads

L 18 (A,35,5) Chip Beads
L 19 (A,33,6) Chip Beads
L 20 (A,35,6) Chip Beads
L 21 (A,33,8) Chip Beads
L 22 (A,35,7) Chip Beads

L 23 (A,33,9) Chip Beads
L 24 (A,35,9) Chip Beads
L 25 (B,41,8) Chip Beads
X 1 (A,35,16) Resonator 27.000 MHz
CN2 (B,52,13) Connector

JA1 (A,29,28) Connector

RESISTORS

R 5 (B,16,9)
R 14 (A,34,12)
R 15 (A,19,8)
R 16 (A,20,8)
R 17 (A,19,9)

R 19 (A,53,20)
R 21 (A,39,20)
R 22 (A,40,20)
R 23 (A,36,20)
R 24 (A,38,19)

R 26 (A,44,13)
R 27 (A,48,16)
R 28 (A,41,8)
R 29 (A,17,10)
R 30 (A,38,17)

R 31 (A,54,19)
R 34 (B,23,3)
R 36 (B,21,6)
R 37 (B,24,8)
R 38 (B,23,6)

R 39 (A,32,17)
R 40 (B,26,5)
R 41 (A,39,22)
R 43 (A,44,23)
R 44 (A,44,21)

R 45 (A,33,12)
R 46 (A,36,21)
R 47 (A,34,21)
R 48 (A,31,21)
R 49 (B,29,10)

R 50 (B,34,11)

8
Part No.

CTF1834
CTF1834
CTF1528
DTL1107
CTF1528

VTL1126
VTL1132
VTL1132
VTL1132
VTL1132

VTL1132
VTL1132
VTL1132
VTL1132
VTL1132

VTL1132
VTL1132
VTL1132
VTL1132
VTL1132

VTL1132
VTL1132
VTL1132
CSS1768
CKS6502

CKS6560

RS1/16SS0R0J
RS1/16SS101J
RS1/16SS220J
RS1/16SS220J
RS1/16SS220J

RS1/16SS102J
RS1/16SS223J
RS1/16SS433J
RS1/16SS473J
RS1/16SS473J

RS1/10SR0R0J
RS1/10SR0R0J
RS1/10SR0R0J
RS1/16SS101J
RS1/16SS273J

RS1/16SS104J
RS1/10SR0R0J
RS1/16SS821J
RS1/16SS821J
RS1/16SS0R0J

RS1/16SS681J
RS1/16SS0R0J
RS1/16SS102J
RS1/16SS103J
RS1/16SS102J

RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS473J

RS1/16SS473J

1

Circuit Symbol and No.

R 54 (B,31,10)
R 57 (A,20,15)
R 58 (A,18,15)
R 59 (A,18,11)

A

R 60 (B,31,13)
R 61 (B,34,9)
R 63 (B,35,7)
R 65 (B,59,15)
R 67 (B,59,14)

R 68 (B,33,6)
R 69 (A,18,14)
R 70 (A,20,17)
R 71 (A,18,13)
R 72 (A,20,16)

B

R 73 (A,20,14)
R 74 (A,20,12)
R 75 (A,20,11)
R 76 (B,10,7)
R 77 (B,12,5)

R 78 (B,29,11)
R 88 (B,42,10)
R 90 (B,44,11)
R 91 (B,44,8)

C

R 92 (B,42,12)
R 94 (B,44,12)
R 96 (B,42,13)
R 98 (B,44,14)
R 100 (B,42,14)

R 102 (B,44,15)
R 104 (B,42,15)
R 106 (B,44,16)
R 108 (B,42,16)
R 110 (B,44,17)

D

R 112 (B,42,17)
R 114 (B,44,18)
R 116 (B,42,18)
R 118 (B,44,19)

CAPACITORS

C 1 (B,18,4)
C 2 (B,17,6) 10 uF
C 3 (A,32,15)
C 4 (A,34,18)
C 5 (A,48,23) 10 uF

E

C 6 (A,48,22) 10 uF
C 7 (A,49,20) 10 uF
C 8 (A,59,17) 4.7 uF
C 9 (A,52,15) 4.7 uF
C 10 (A,45,6) 4.7 uF

C 11 (A,49,12) 4.7 uF
C 13 (B,26,10) 10 uF
C 15 (B,20,3)
C 16 (B,24,5)

F

C 17 (B,26,6)
C 29 (A,16,11)
C 38 (B,16,16)
C 39 (B,25,13)

C 40 (B,25,16)
C 41 (B,25,14)

2

Part No.

RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS0R0J

RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS103J
RS1/16SS0R0J
RS1/16SS0R0J

RS1/16SS472J
RS1/16SS303J
RS1/16SS303J
RS1/16SS303J
RS1/16SS303J

RS1/16SS681J
RS1/16SS681J
RS1/16SS681J
RS1/16SS472J
RS1/16SS0R0J

RS1/16SS473J
RS1/16SS221J
RS1/16SS221J
RS1/16SS101J

RS1/16SS221J
RS1/16SS221J
RS1/16SS221J
RS1/16SS221J
RS1/16SS221J

RS1/16SS221J
RS1/16SS221J
RS1/16SS221J
RS1/16SS221J
RS1/16SS221J

RS1/16SS221J
RS1/16SS221J
RS1/16SS221J
RS1/16SS221J

3

Circuit Symbol and No.

C 42 (B,29,8)
C 43 (B,25,8)
C 44 (B,27,8)

C 45 (B,30,13)
C 46 (B,27,14)
C 47 (B,28,8)
C 48 (B,26,14)
C 49 (B,29,14)

C 50 (B,28,14)
C 51 (B,39,25)
C 52 (B,18,25)
C 53 (B,41,24)
C 54 (B,16,24)

C 55 (B,42,8)

4

Part No.

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10
CKSSYB104K10

CKSSYB104K10
CKSSYB102K50
CKSSYB102K50
CKSSYB102K50
CKSSYB102K50

CCSSCH4R0C50

J**Unit Number : EXX2001****Unit Name : PCB Unit(Service)****MISCELLANEOUS**

IC 101	Driver IC	BA6288FS
VR101	Volume 10 kohm	CCW1029
S 101	Switch(HOME)	CSN1067
S 102	Switch(HOME)	CSN1068
CN101	Connector	CKS4997

RESISTORS

R 101	RS1/16S221J
R 102	RS1/16S221J
R 103	RS1/16S0R0J

CAPACITORS

C 101	CEVW220M16
C 102	CKSRYB104K16