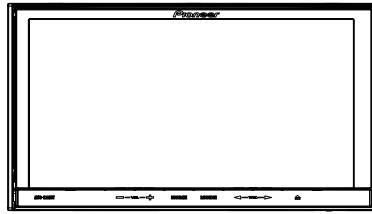


Pioneer

Service Manual



AVIC-Z110BT/XN/UC

ORDER NO.
CRT4399

FLASH MEMORY MULTIMEDIA AV NAVIGATION RECEIVER

AVIC-Z110BT /XN/UC

NAVIGATION AV SYSTEM

AVIC-F10BT /XN/AU

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

Model No.	Order No.	Mech. Module	Remarks
CX-3250	CRT4300	LS1	DVD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly

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

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

CAUTION

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

WARNING

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.

Caution:

1. During repair or tests, minimum distance of 13 cm from the focus lens must be kept.
2. During repair or tests, do not view laser beam for 10 seconds or longer.

**CAUTION:
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.**

CAUTION

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

[Important Check Points for Good Servicing]

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

1. Product safety



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

- ① Use specified parts for repair.

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

- ② Do not perform modifications without proper instructions.

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

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

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

- ④ Make sure the screws are tightly fastened.

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

- ⑤ Make sure each connectors are correctly inserted.

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

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

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

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

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

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

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

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

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

- ⑩ Safe environment should be secured during servicing.

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

2. Adjustments



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

3. Lubricants, Glues, and Replacement parts



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

4. Cleaning



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

5. Shipping mode and Shipping screws



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

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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. 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.
4. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY" .
5. After replacing the pickup unit, be sure to skew adjustment.
6. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.
7. Notes on the temperature protection

The temperature protection is set considering the use temperature range of moviNAND.

If the temperature reaches the detection temperature shown below, the operation stops (ASENS is disabled).

Detection temperature on low temperature side: -25°C, return temperature: -20°C

Detection temperature on high temperature side: 86.5°C, return temperature: 80°C

8. Control of FAN

There is the control of STOP, low rotation and high rotation.

The temperature (CC unit, DVD mechanism) and the sound volume are detected and controlled it.

9. Pay attention to the connection direction of 140-pin connector when you connect the audio unit and the navi unit with the expansion jig.
10. Pay attention to the wiring of BT cable. (It affects the sensitivity of BT antenna)
11. Board-to-board connector

With this product, the board-to-board connector is used for the connection between boards.
Remove or attach the board with extra care not to damage the connector.
Assemble the product carefully to prevent an foreign object such as dust and dirt from getting mixed in the connector joint part.
12. Do not remove the heat release sheet as much as possible.

As the heat release sheet is soft and it may be damaged when you remove it. If it is damaged, please replace the part with new one.
13. Grill unit (CXE1974, CXE2206)

The plates (CNS9899, CNS9949) and right and left guides (CNS9824, CNS9825) cannot be removed.
If you want to replace the parts of the grill unit, replace the whole grill unit.
14. For the wiring of co-axial cable (CDE8990, CDE8991) in the monitor, the performance may vary depending on the wiring position.

Please refer to "7. DISASSEMBLY".
15. The procedure of turn off the unit
 - 1) Turn off the ACC line.
 - 2) After 40 seconds, turn off the BUP line.

Note:

Navi software required approximately 40 seconds for storing the data after ACC OFF.

For your information, after the BUP current is less than 380 mA, you can turn off BUP line.

EJECT LOCK MODE for DVD mechanism

In order to change the EJECT LOCK/UNLOCK status of the mechanism, please perform following procedure.

< Procedure >

Top Menu -> AV Source -> Source OFF



Short push area "A" -> Short push area "B" -> Long push area "C" on above screen.

(In order to change the status, follow the same operation.)

The current status can be confirmed by "OFF" character color.



Eject Lock: OFF
(White character)



Eject Lock: ON
(Blue character)

1.2 NOTES ON SOLDERING

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

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

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

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

2. SPECIFICATIONS

2.1 SPECIFICATIONS

UC model

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 3.0 mA or less

Dimensions (W × H × D):	
Chassis	178 mm × 100 mm × 165 mm (7 in. × 3-7/8 in. × 6-1/2 in.)
Nose	170 mm × 96 mm × 17 mm (6-3/4 in. × 3-3/4 in. × 5/8 in.)
Weight	2.43 kg (5.3 lbs)
NAND flash memory	4 GB

Navigation

GPS Receiver:	
System	L1, C/Acode GPS SPS (Standard Positioning Service)
Reception system	32-channel multi-channel reception system
Reception frequency	1 575.42 MHz
Sensitivity	-143 dBm (typ)
Position update frequency	Approx. once per second
GPS antenna:	
Antenna	Micro strip flat antenna/ right-handed helical polarization
Antenna cable	5.0 m (16 ft. 5 in.)
Dimensions (W × H × D)	33 mm × 15 mm × 36 mm (1-1/4 in. × 5/8 in. × 1-3/8 in.)
Weight	96 g (0.2 lbs)

Display

Screen size/aspect ratio	7 inch wide/16:9 (effective display area: 159 mm × 84 mm)
Pixels	384 000 (800 × 480)
Display method	TFT Active matrix driving
Backlight	LED
Color system	NTSC compatible
Tolerable temperature range:	
Power on	+14 °F to +140 °F
Power off	-4 °F to +176 °F
Angle adjustment	0° to 22°

Audio

Maximum power output	50 W × 4 50 W × 2 ch/4Ω + 70 W × 1 ch/2Ω (for subwoofer)
Continuous power output	22 W × 4 (50 Hz to 15 kHz, 5%THD, 4Ω LOAD, Both Channels Driven)
Load impedance	4Ω (4Ω to 8Ω [2Ω for 1 ch] allowable)
Preout output level (max)	4 V
Preout impedance	100 ohm
Equalizer (7-Band Graphic Equalizer):	
Frequency	50 Hz/125 Hz/315 Hz/800 Hz/ 2 kHz/5 kHz/12.5 kHz
Gain	±12 dB
Loudness contour:	
Low	+3.5 dB (100 Hz), +3 dB (10 kHz)
Mid	+10 dB (100 Hz), +6.5 dB (10 kHz)
High	+11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 dB)
HPF:	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/ 125 Hz
Slope	-12 dB/oct
Subwoofer:	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/ 125 Hz
Slope	-18 dB/oct
Gain	-24/+6 dB
Phase	Normal/Reverse
Bass boost:	
Gain	0 dB to +12 dB

DVD Drive

System	DVD-Video, CD, MP3, WMA, AAC, DivX system
Usable discs	DVD-Video, DVD-VR, DVD-R (DL), DVD-RW, CD-ROM, CD-DA, CD-R/RW
Region number	1
Signal format:	
Sampling frequency	44.1 kHz/48 kHz/96 kHz
Number of quantization bits	16 bit/20 bit/24 bit; linear
Frequency response	5 Hz to 44 000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio	97 dB (1 kHz) (IHF-A network) (CD: 96 dB (1 kHz) (IHF-A network))

A	Dynamic range	95 dB (1 kHz) (CD: 94 dB (1 kHz))
	Distortion	0.008 % (1 kHz)
	Output level:	
	Video	1.0 Vp-p/75 Ω (± 0.2 V)
	Audio	1.0 V (1 kHz, 0 dB)
	Number of channels	2 (stereo)
	MP3 decoding format	MPEG-1 & 2 Audio Layer 3
	WMA decoding format	Ver.9.0 L3
	AAC decoding format	MPEG-4 AAC (only encoded by iTunes): .m4a
B	DivX decoding format	Home Theater Ver.3.11, Ver.4.X, Ver.5.X, Ver.6.X : .avi, .divx

USB

	USB standard spec.	USB 2.0 High Speed
	Max current supply	500 mA
	Max memory capacity	16 GB
	File system	FAT16, FAT32
	USB class	Mass storage class
C	Decoding format	MP3/WMA/AAC/WAVE/ H.264/MPEG4/WMV

SD

	Compatible physical format	
	.....	Version 2.00
	Max memory capacity	16 GB
	File system	FAT16, FAT32
	Decoding format	MP3/WMA/AAC/WAVE/ H.264/MPEG4/WMV

Bluetooth

D	Version	Bluetooth 2.0+EDR
	Output power	+4 dBm Max. (Power class 2)

FM tuner

	Frequency range	87.9 MHz to 107.9 MHz
	Usable sensitivity	9 dBf (0.8 μ V/75 Ω , mono, S/N: 30 dB)
	Signal-to-noise ratio	72 dB (IHF-A network)
	Distortion	0.3 % (at 65 dBf, 1 kHz, stereo)
E		0.1 % (at 65 dBf, 1 kHz, mono)
	Frequency response	30 Hz to 15 000 Hz (± 3 dB)
	Stereo separation	45 dB (at 65 dBf, 1 kHz)

AM tuner

	Frequency range	530 kHz to 1 710 kHz (10 kHz)
	Usable sensitivity	25 μ V (S/N: 20 dB)

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

CEA2006 Specifications



	Power output	14 W RMS \times 4 Channels (4 Ω and ≤ 1 % THD+N)
	S/N ratio	91 dBA (reference: 1 W into 4 Ω)

Note

Specifications and design are subject to possible modifications without notice due to improvements.

AU model

General

Rated power source	14.4 V DC (allowable voltage range: 10.8 V to 15.1 V DC)
Earthing system	Negative type
Maximum current consumption	10.0 A
Backup current	3.0 mA or less

Dimensions (W × H × D):

D	
Chassis	178 mm × 100 mm × 165 mm
Nose	170 mm × 96 mm × 17 mm
Weight	2.43 kg
NAND flash memory	4 GB

Navigation

GPS Receiver:	
System	L1, C/Acode GPS SPS (Standard Positioning Service)
Reception system	32-channel multi-channel reception system
Reception frequency	1 575.42 MHz
Sensitivity	-143 dBm (typ)
Position update frequency	Approx. once per second
GPS aerial:	
Aerial	Micro strip flat aerial/right- handed helical polarisation
Aerial cable	5.0 m
Dimensions (W × H × D)	33 mm × 15 mm × 36 mm
Weight	96 g

Display

Screen size/aspect ratio	7 inch wide/16:9 (effective display area: 159 mm × 84 mm)
Pixels	384 000 (800 × 480)
Display method	TFT Active matrix driving
Backlight	LED
Colour system	PAL/NTSC compatible
Tolerable temperature range:	
Power on	-10 °C to +60 °C
Power off	-20 °C to +80 °C
Angle adjustment	0° to 22°

Audio

Maximum power output	50 W × 4 50 W × 2 ch/4 Ω + 70 W × 1 ch/2 Ω (for subwoofer)
----------------------------	--

Continuous power output ...	22 W × 4 (50 Hz to 15 kHz, 5 %THD, 4 Ω LOAD, Both Channels Driven)
Load impedance	4 Ω (4 Ω to 8 Ω [2 Ω for 1 ch] allowable)
Preout output level (max)	4 V
Preout impedance	100 ohm
Equaliser (7-Band Graphic Equaliser):	
Frequency	50 Hz/125 Hz/315 Hz/800 Hz/ 2 kHz/5 kHz/12.5 kHz
Gain	±12 dB
Loudness contour:	
Low	+3.5 dB (100 Hz), +3 dB (10 kHz)
Mid	+10 dB (100 Hz), +6.5 dB (10 kHz)
High	+11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 dB)
HPF:	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/ 125 Hz
Slope	-12 dB/oct
Subwoofer:	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/ 125 Hz
Slope	-18 dB/oct
Gain	-24/+6 dB
Phase	Normal/Reverse
Bass boost:	
Gain	0 dB to +12 dB

DVD Drive

System	DVD-Video, CD, MP3, WMA, AAC, DivX system
Usable discs	DVD-Video, DVD-VR, DVD-R (DL), DVD-RW, CD-ROM, CD-DA, CD-R/RW
Region number	4
Signal format:	
Sampling frequency	44.1 kHz/48 kHz/96 kHz
Number of quantisation bits	16 bit/20 bit/24 bit; linear
Frequency response	5 Hz to 44 000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio	97 dB (1 kHz) (IHF-A net- work) (CD: 96 dB (1 kHz) (IHF-A network))
Dynamic range	95 dB (1 kHz) (CD: 94 dB (1 kHz))
Distortion	0.008 % (1 kHz)

Output level:

Video 1.0 V_{p-p}/75 Ω (±0.2 V)

Audio 1.0 V (1 kHz, 0 dB)

Number of channels 2 (stereo)

MP3 decoding format MPEG-1 & 2 Audio Layer 3

WMA decoding format Ver.9.0 L3

AAC decoding format MPEG-4 AAC (only encoded

by iTunes):

.m4a

DivX decoding format Home Theater Ver.3.11,

Ver.4.X, Ver.5.X, Ver.6.X :

.avi, .divx

USB

USB standard spec. USB 2.0 High Speed

Max current supply 500 mA

Max memory capacity 16 GB

File system FAT16, FAT32

USB class Mass storage class

Decoding format MP3/WMA/AAC/WAVE/
H.264/MPEG4/WMV**SD**

Compatible physical format

..... Version 2.00

Max memory capacity 16 GB

File system FAT16, FAT32

Decoding format MP3/WMA/AAC/WAVE/
H.264/MPEG4/WMV**Bluetooth**

Version Bluetooth 2.0+EDR

Output power +4 dBm Max.
(Power class 2)**FM tuner**

Frequency range 87.9 MHz to 107.9 MHz

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

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

Distortion 0.3 % (at 65 dBf, 1 kHz,
stereo)
0.1 % (at 65 dBf, 1 kHz,
mono)

Frequency response 30 Hz to 15 000 Hz (±3 dB)

Stereo separation 45 dB (at 65 dBf, 1 kHz)

AM 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 (IHF-A network)

RDS-TMC tuner

Rated power source 13.8 V DC

(allowable voltage range:

10.0 V to 14.5 V DC)


Earthing system Negative type

Maximum current consumption

..... 60 mA

Dimensions (W × H × D) ... 68 mm × 49 mm × 19 mm

Weight 180 g

**Note**Specifications and design are subject to possible modifications without notice due to improvements. 



DVD is a trademark of DVD Format/Logo Licensing Corporation.



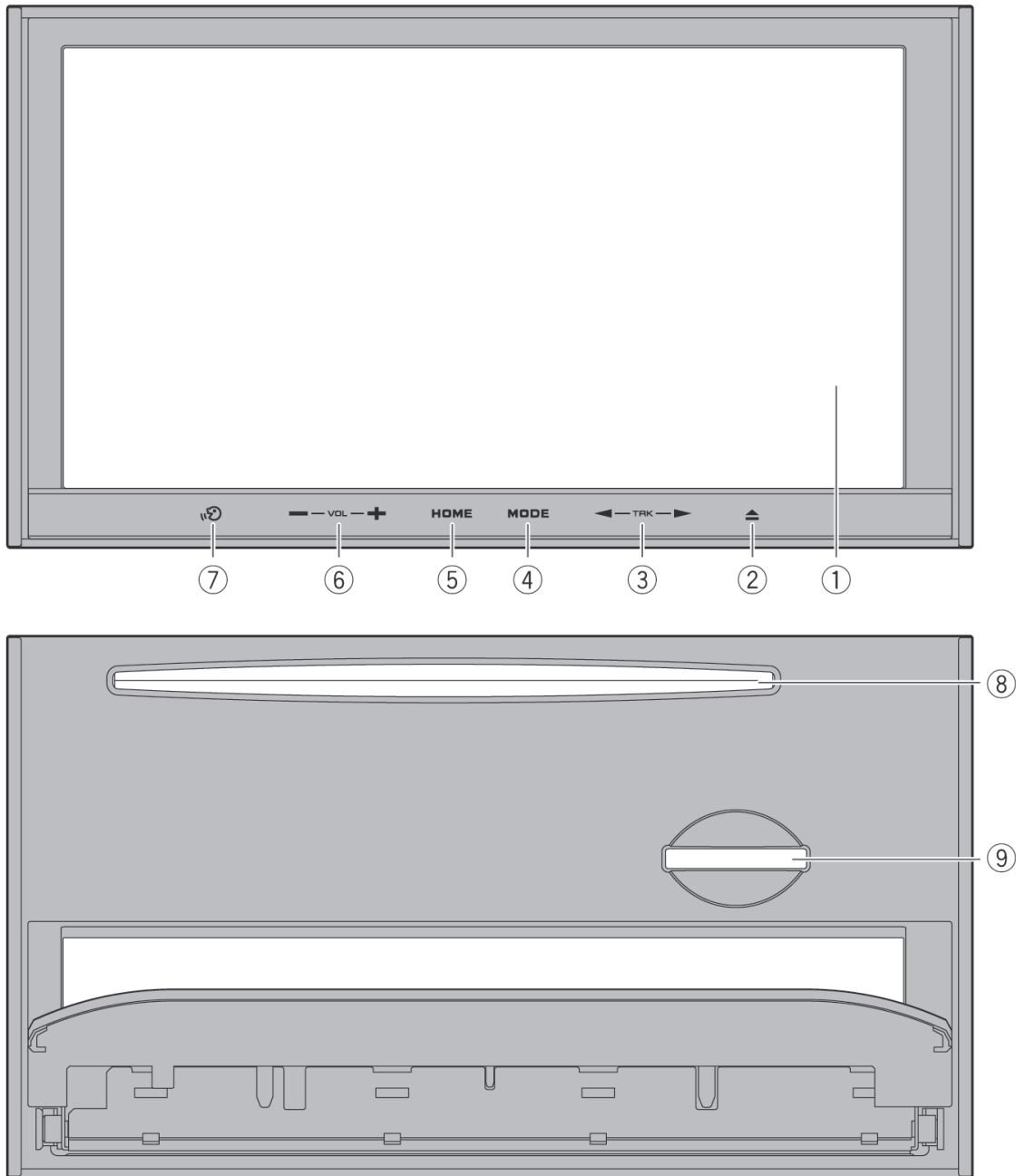
The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Pioneer Corporation is under license. Other trademarks and trade names are those of their respective owners.



2.3 PANEL FACILITIES

A Checking part names and functions

This chapter gives information about the names of the parts and the main features using the buttons.



① LCD screen

② OPEN CLOSE button

③ TRK (◀/▶) button

Press to perform manual seek tuning, fast forward, reverse and track search controls.

④ **MODE button**

- Press to switch between the map screen and the AV operation screen.
- Press to display the map screen while the navigation function screen is displayed.
- Press and hold to display the "**Picture Adjustment**" screen.

⑤ **HOME button**

- Press the **HOME** button to display the "**Top Menu**".
- Press to switch between the "Classic Menu" and the "Shortcut Menu" while the "**Top Menu**" is displayed.
- Press and hold to turn off the screen display.

⑥ **VOL (+/-) button**

Adjusts the AV (Audio and Video) source volume.

⑦ **VOICE button**

Press the **VOICE** button to activate voice operations.

Press and hold the **VOICE** button to switch the AV source to mute.

⑧ **Disc loading slot**

Insert a disc to play.

⑨ **SD card slot**

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 (GGV1025)	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.
7	GPS positioning	Connect GPS antenna to the product, and check whether the current location is correct.	Current location must be correct. Display and operations must be normal.
8	Gyro action	On "3D Calibration Status", check whether the gyro sensor works well by moving the front face of the product from left to right and up and down.	Gyro-sensing, display and operations must be normal.
9	Map display Touch-panel operation Remote-control operation	Check functions of map scale change and map scroll.	Display and operations must be normal.
10		Delete data added during the operating check. Check whether no media (CD etc.) is inside the product.	Make sure to delete data added during the operating check. The media used for the operating check must be ejected.
11		Appearance check	No scratches or dirt on its appearance after receiving it for service.

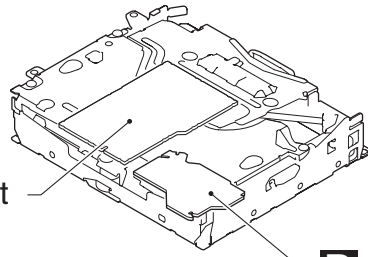
See the table below for the items to be checked regarding video and audio:

Item to be checked regarding video	Item to be checked regarding audio
Block-noise	Distortion
Horizontal noise	Noise
Dot noise	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

3.2 PCB LOCATIONS

A

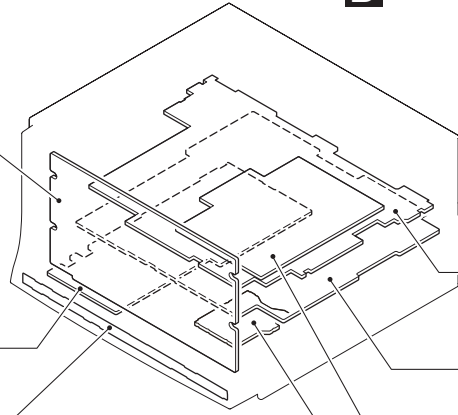
C DVD Core Unit



D Connect PCB

B

G Monitor Unit



F Navi Unit

B Tuner IF Unit

A Audio Unit

H Keyboard Unit

E CC Unit

I PCB Unit(SERVICE)

C

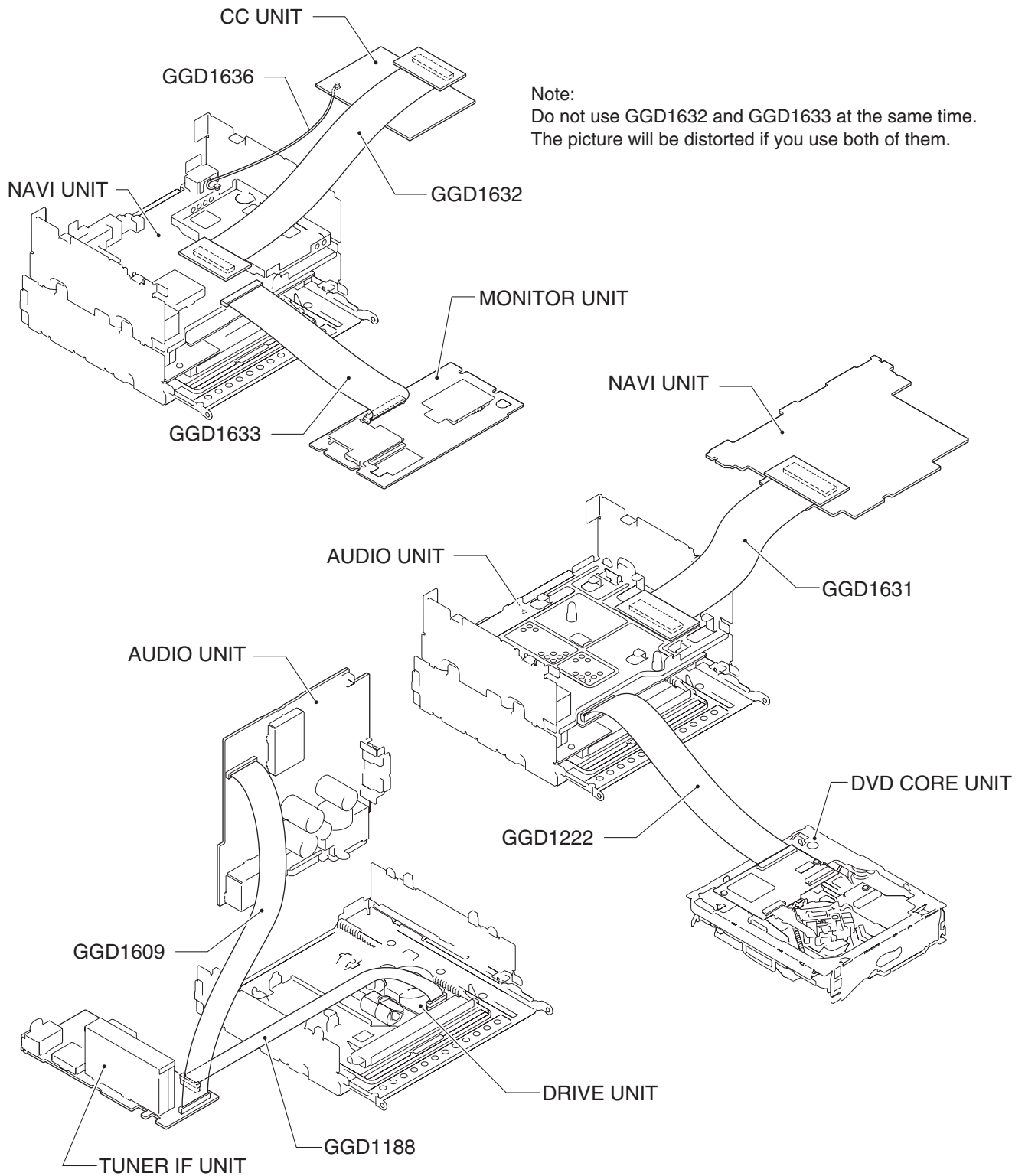
Unit Number	:	CWN4335(UC)
Unit Number	:	CWN4336(AU)
Unit Name	:	Audio Unit
Unit Number	:	CWN4824(UC)
Unit Number	:	CWN4339(AU)
Unit Name	:	Tuner IF Unit
Unit Number	:	CXX2608(UC)
Unit Number	:	CXX2607(AU)
Unit Name	:	Service CC Assy
Unit Number	:	CWN3985
Unit Name	:	Navi Unit
Unit Number	:	CWN3935
Unit Name	:	Monitor Unit
Unit Number	:	CWN3988
Unit Name	:	Keyboard Unit
Unit Number	:	EXX1060
Unit Name	:	PCB Unit(Service)
Unit Number	:	YWX5009
Unit Name	:	DVD Core Unit
Unit Number	:	
Unit Name	:	Connect PCB

D

E

F

3.3 JIGS LIST



Note:
Do not use GGD1632 and GGD1633 at the same time.
The picture will be distorted if you use both of them.

Jigs List

Name	Jig No.	Remarks
DISC	GGV1025	Skew adjustment, Check points after servicing, Inspection method of Pickup Unit
DISC	TCD-782	Inspection method of Pickup Unit
B to B Extension Cable	GGD1632	NAVI UNIT <---> CC UNIT
Extension Cable	GGD1636	NAVI UNIT <---> CC UNIT
FFC Extension Cable	GGD1633	MONITOR UNIT <--->NAVI UNIT
B to B Extension Cable	GGD1631	AUDIO UNIT <---> NAVI UNIT
FFC Extension Cable	GGD1222	AUDIO UNIT <---> DVD CORE UNIT
FFC Extension Cable	GGD1609	AUDIO UNIT <---> TUNER IF UNIT
FFC Extension Cable	GGD1188	TUNER IF UNIT <---> DRIVE UNIT

Grease List

Name	Jig No.	Remarks
Grease	GEM1024	DVD Mechanism Module
Grease	GEM1038	DVD Mechanism Module
Grease	GEM1045	DVD Mechanism Module
Locking agents	1401M	Skew adjustment (1401M:produced by THREE BOND)
Bond	GEM1033	Skew adjustment
Bond	1530	Skew adjustment (1530:produced by THREE BOND)
Grease	GEM1024	Drive Unit
Grease	GEM1043	Drive Unit
Tape	GYH1024	Antenna Cable

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

A

B

C

D

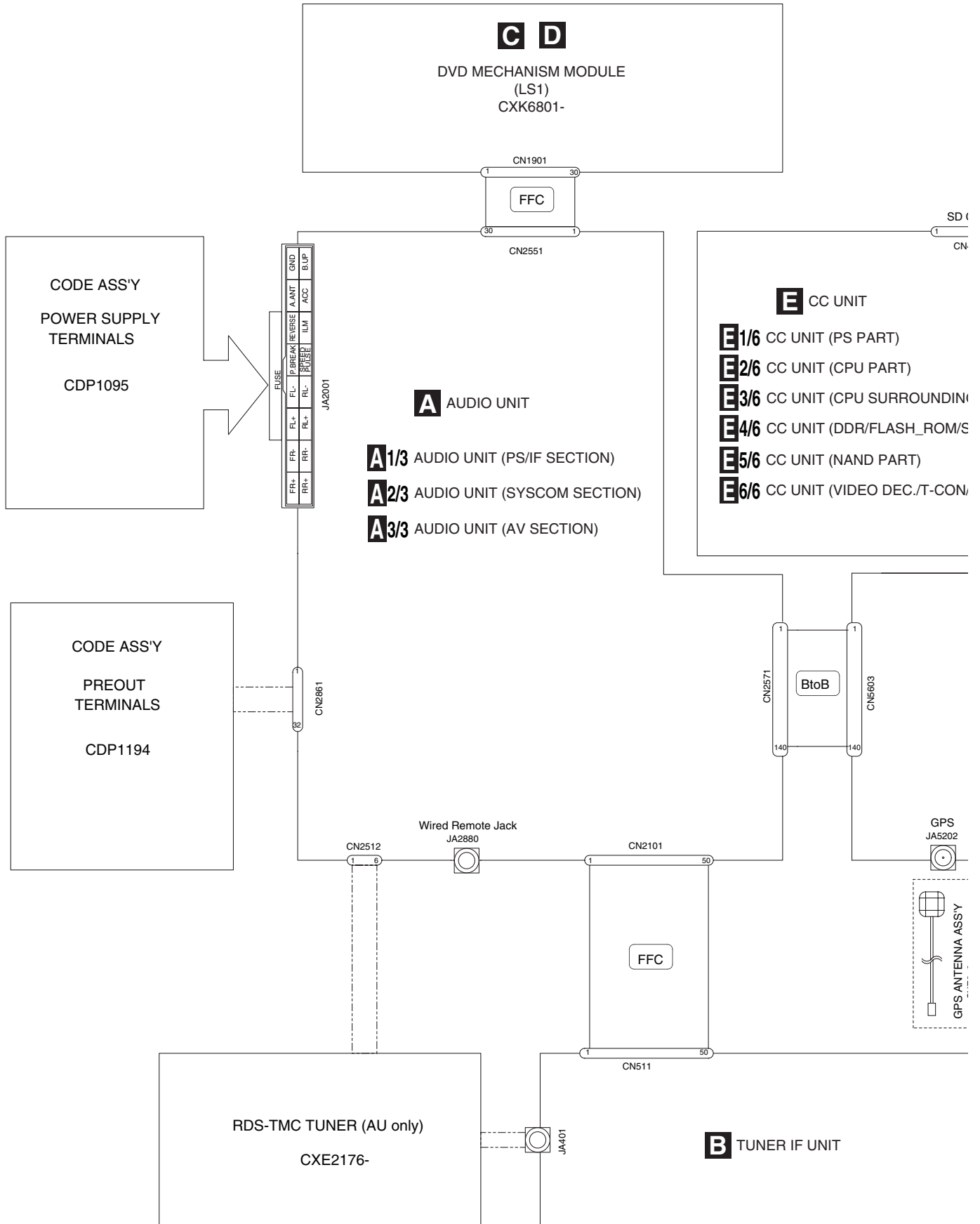
E

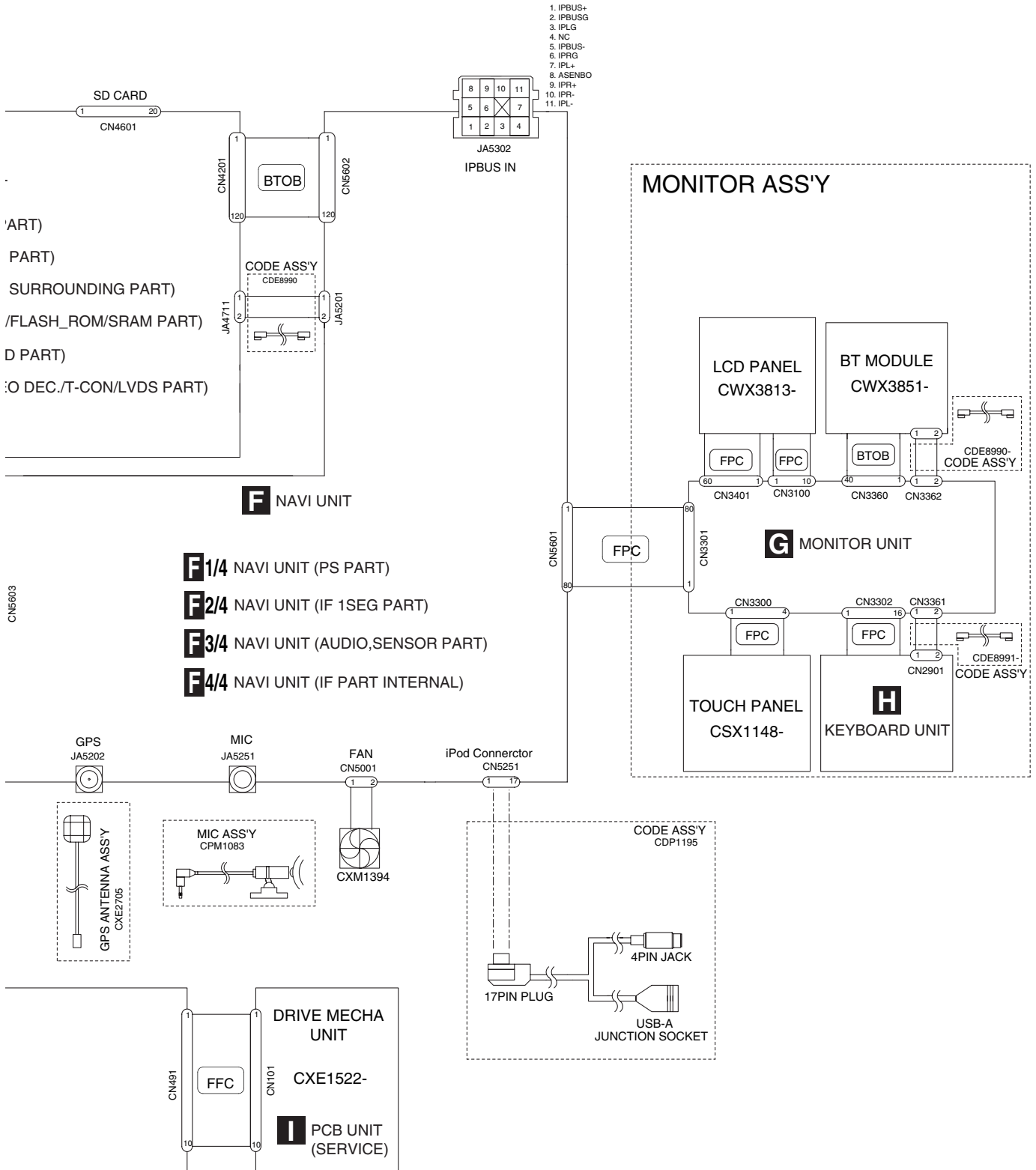
F

4. BLOCK DIAGRAM

4.1 OVERALL CONNECTION DIAGRAM

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

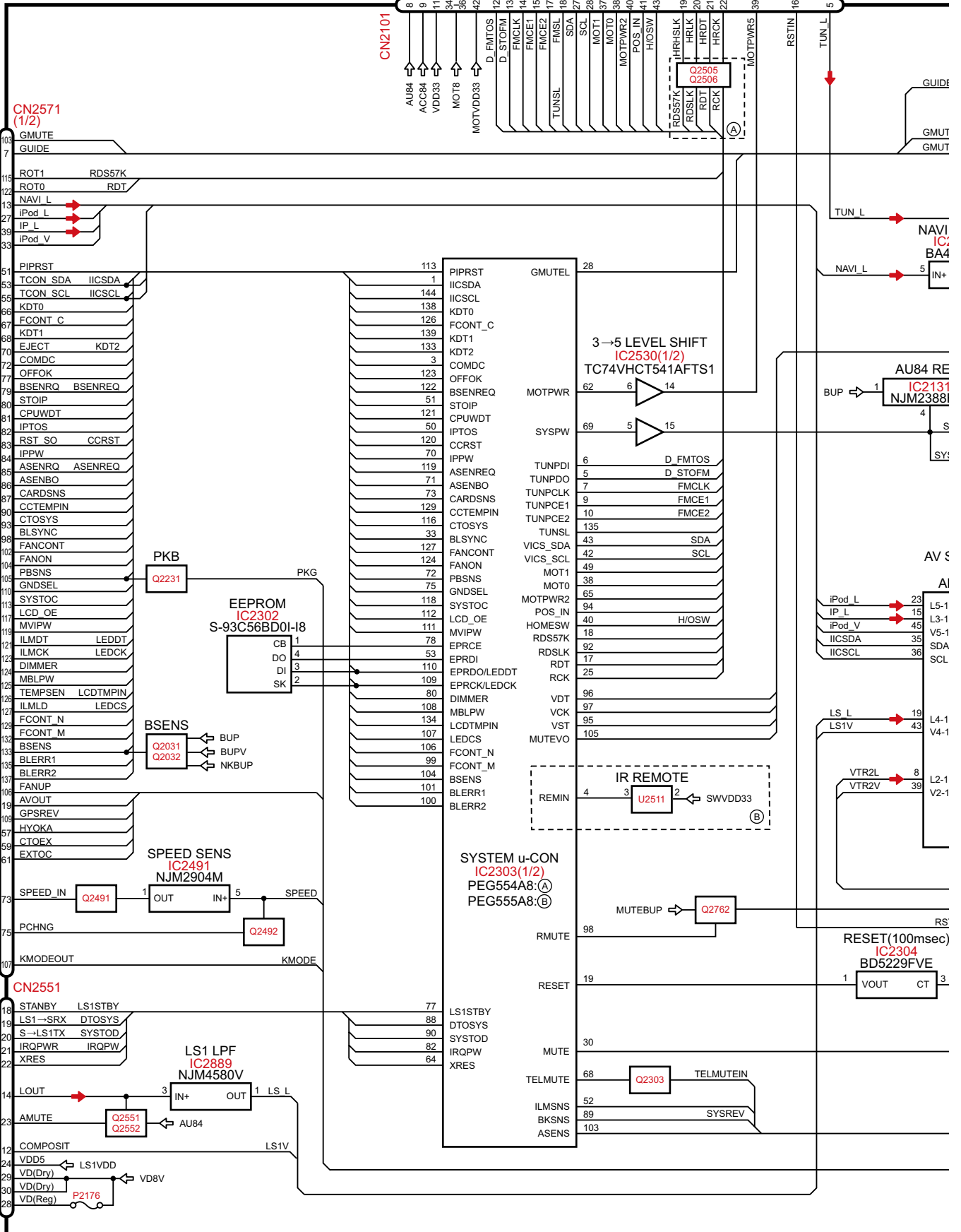




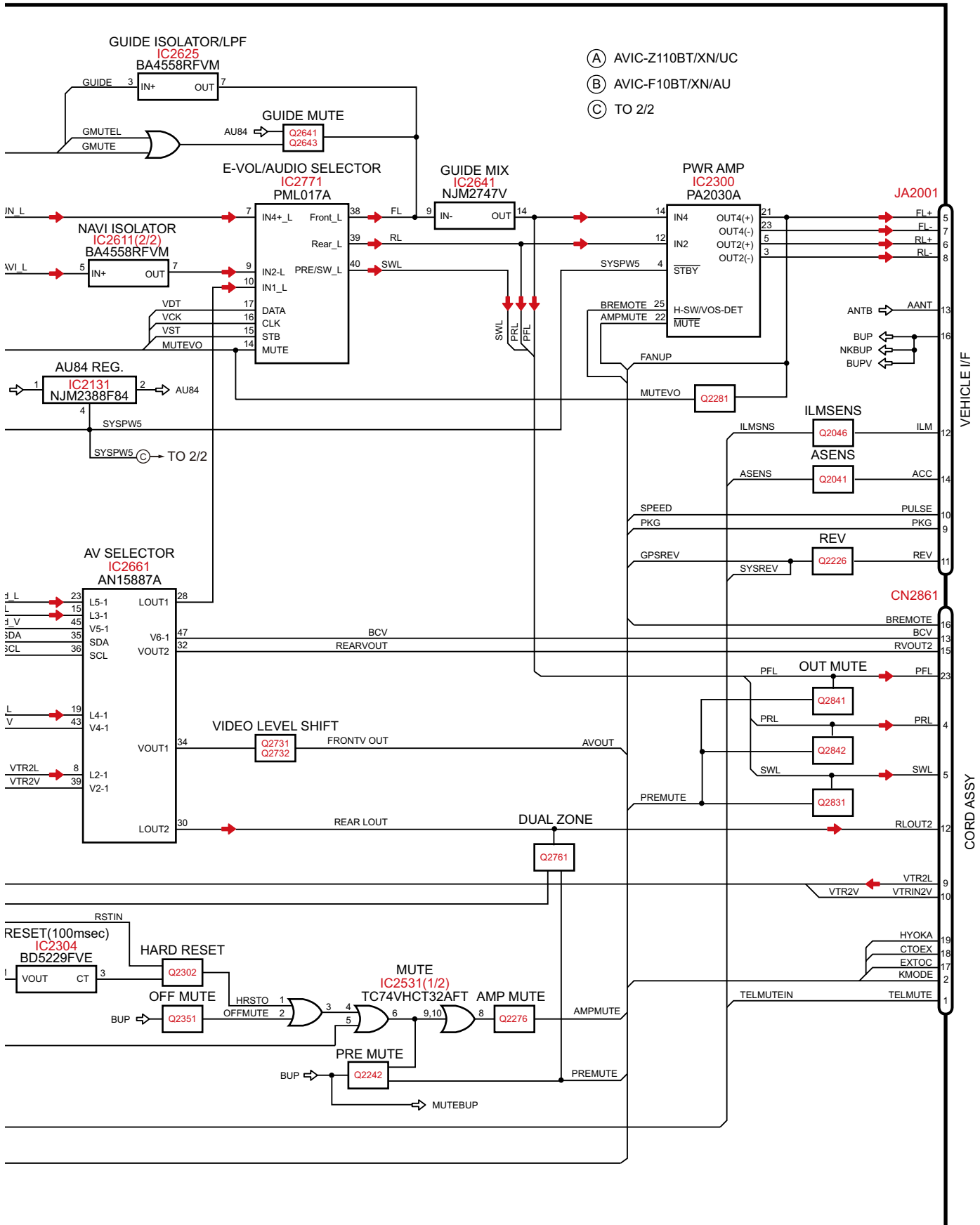
4.2 BLOCK DIAGRAM

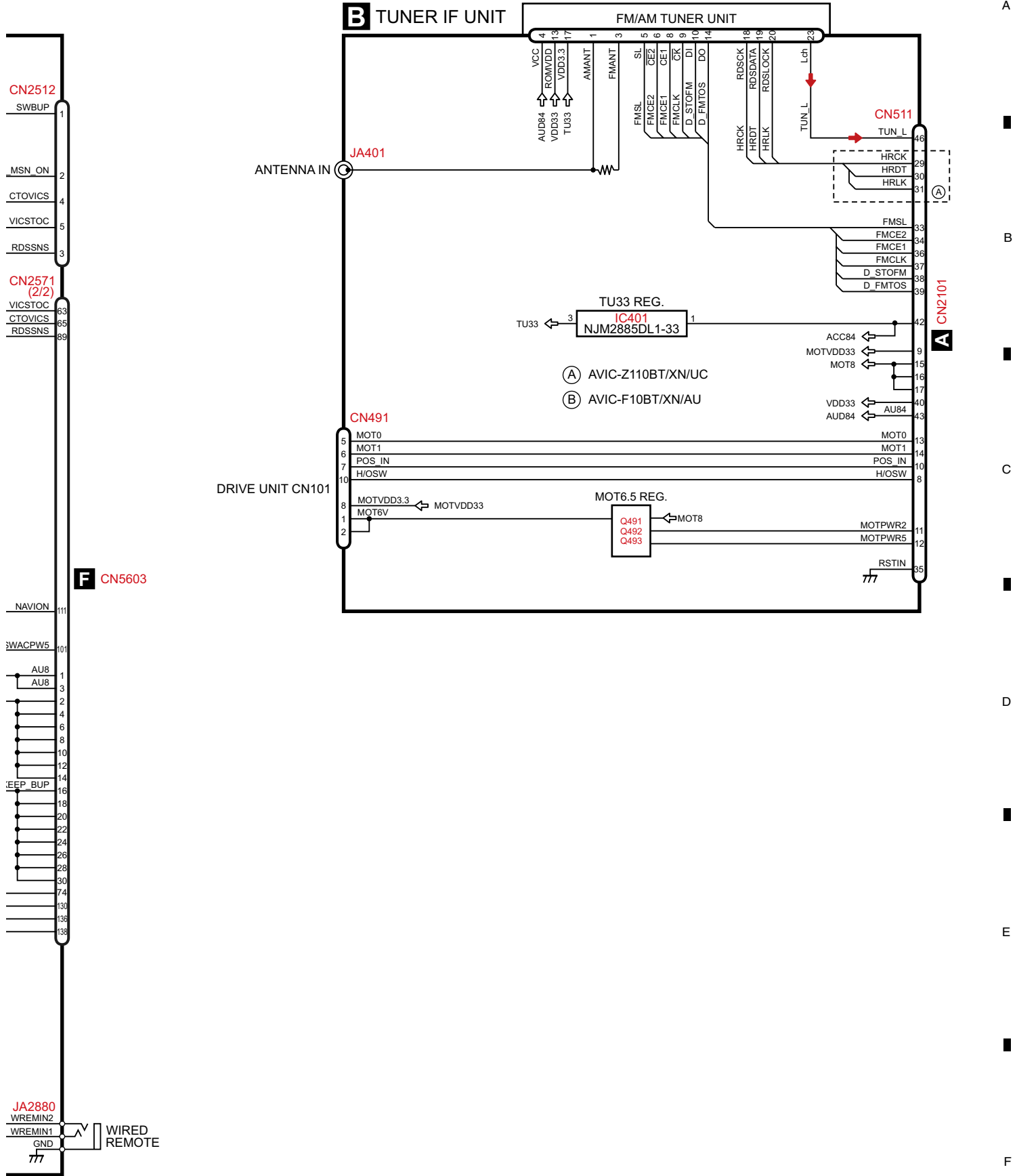
A AUDIO UNIT(1/2)

B CN511

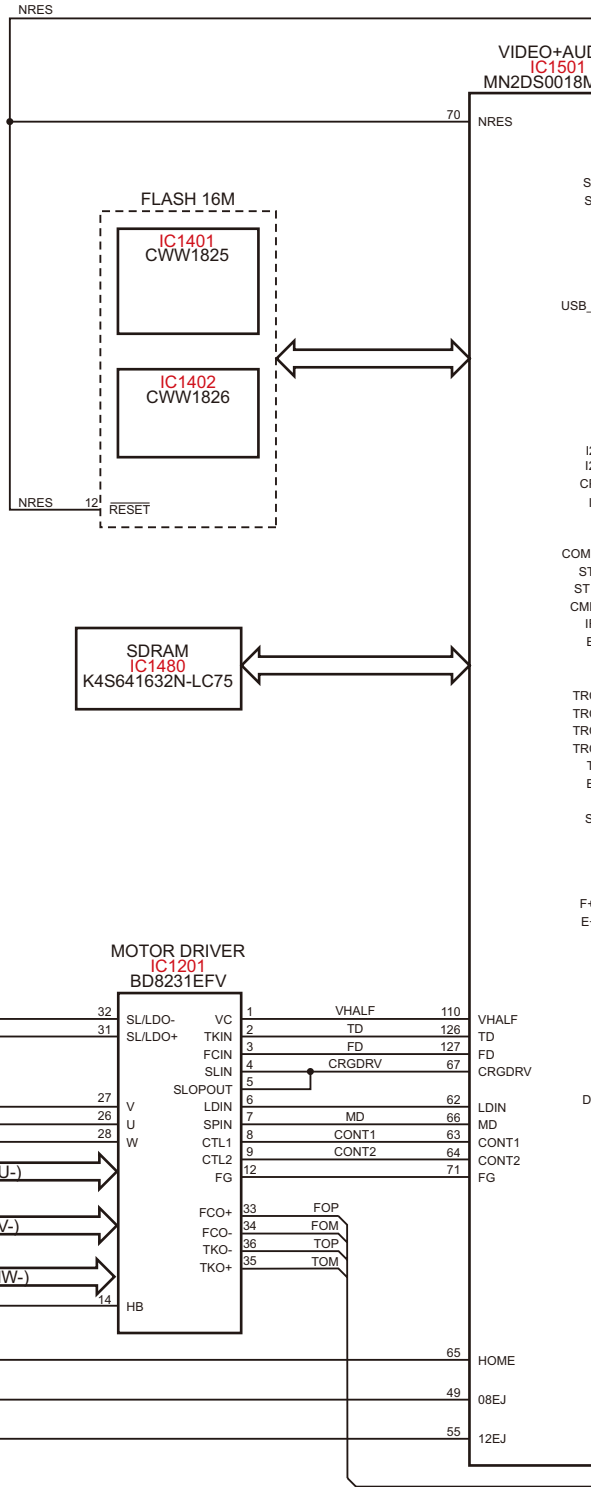


AVIC-Z110BT/XN/UC

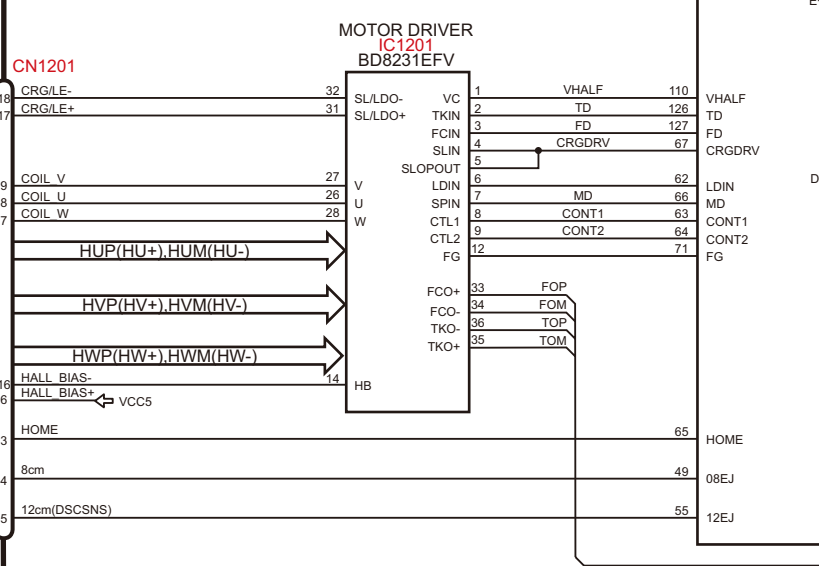
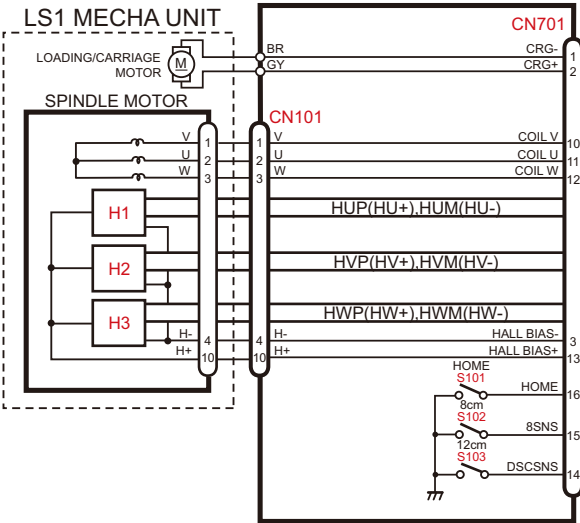


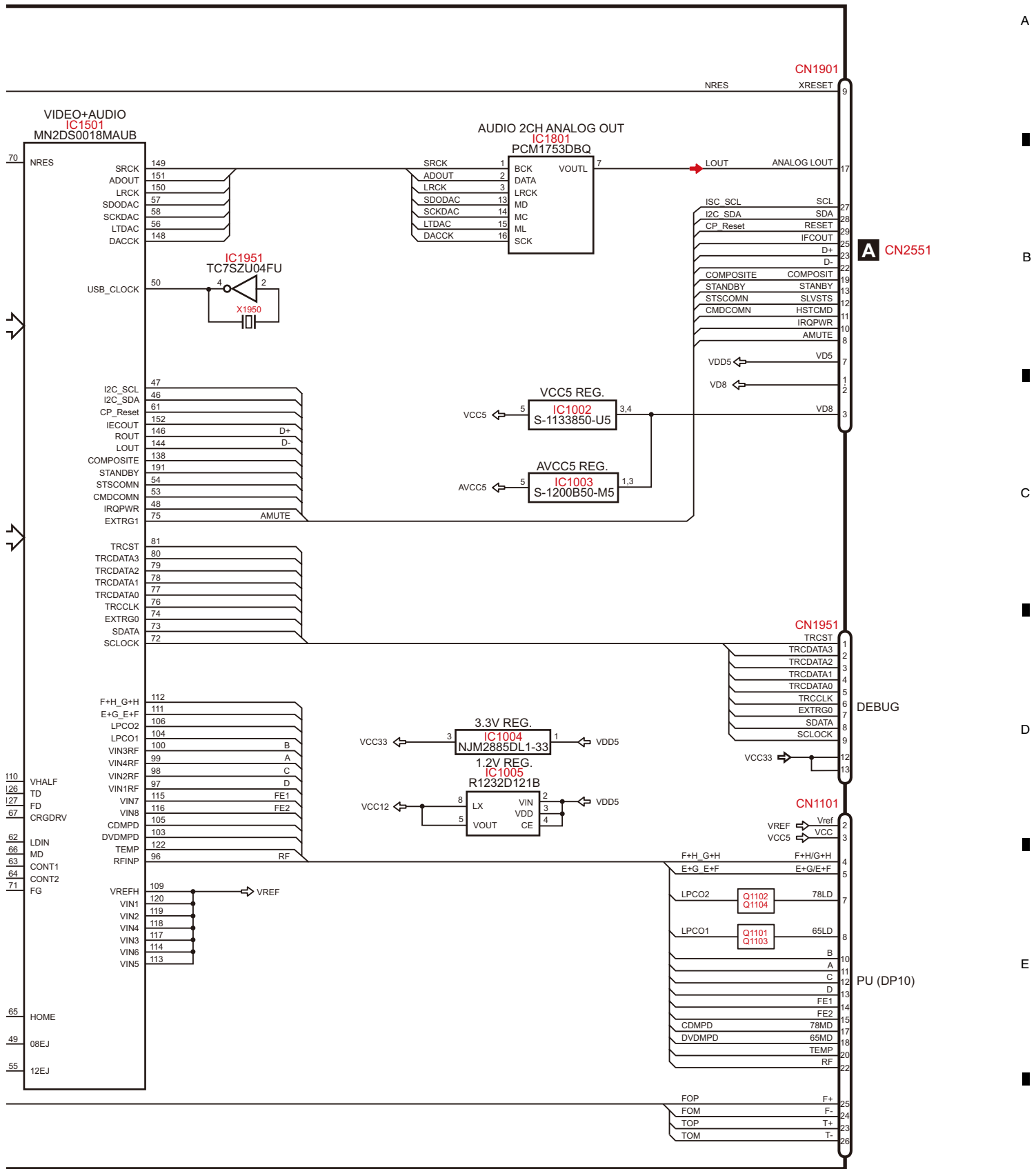


C DVD CORE UNIT



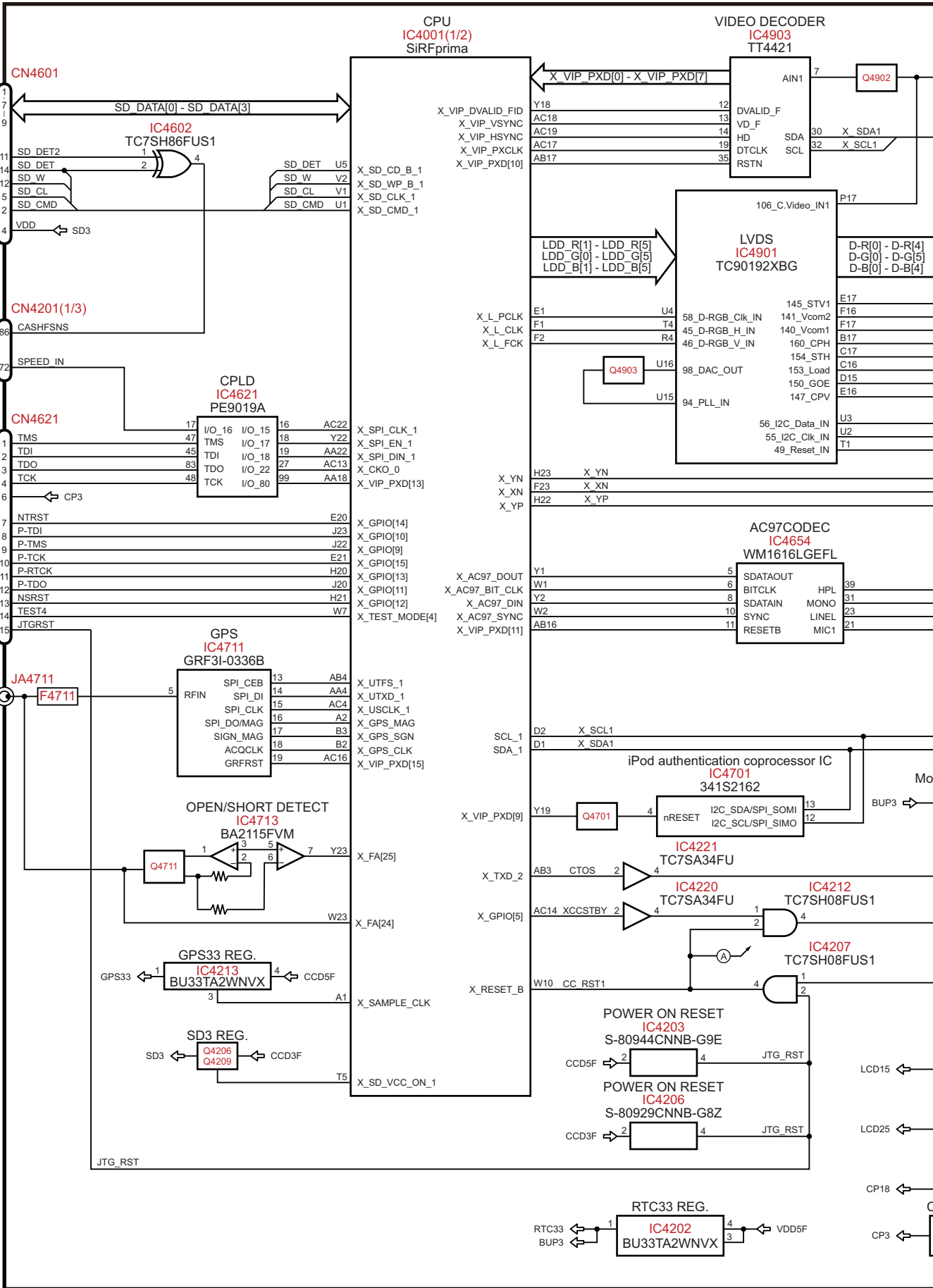
D CONNECT PCB





E CC UNIT

A
B
C
D
E
F

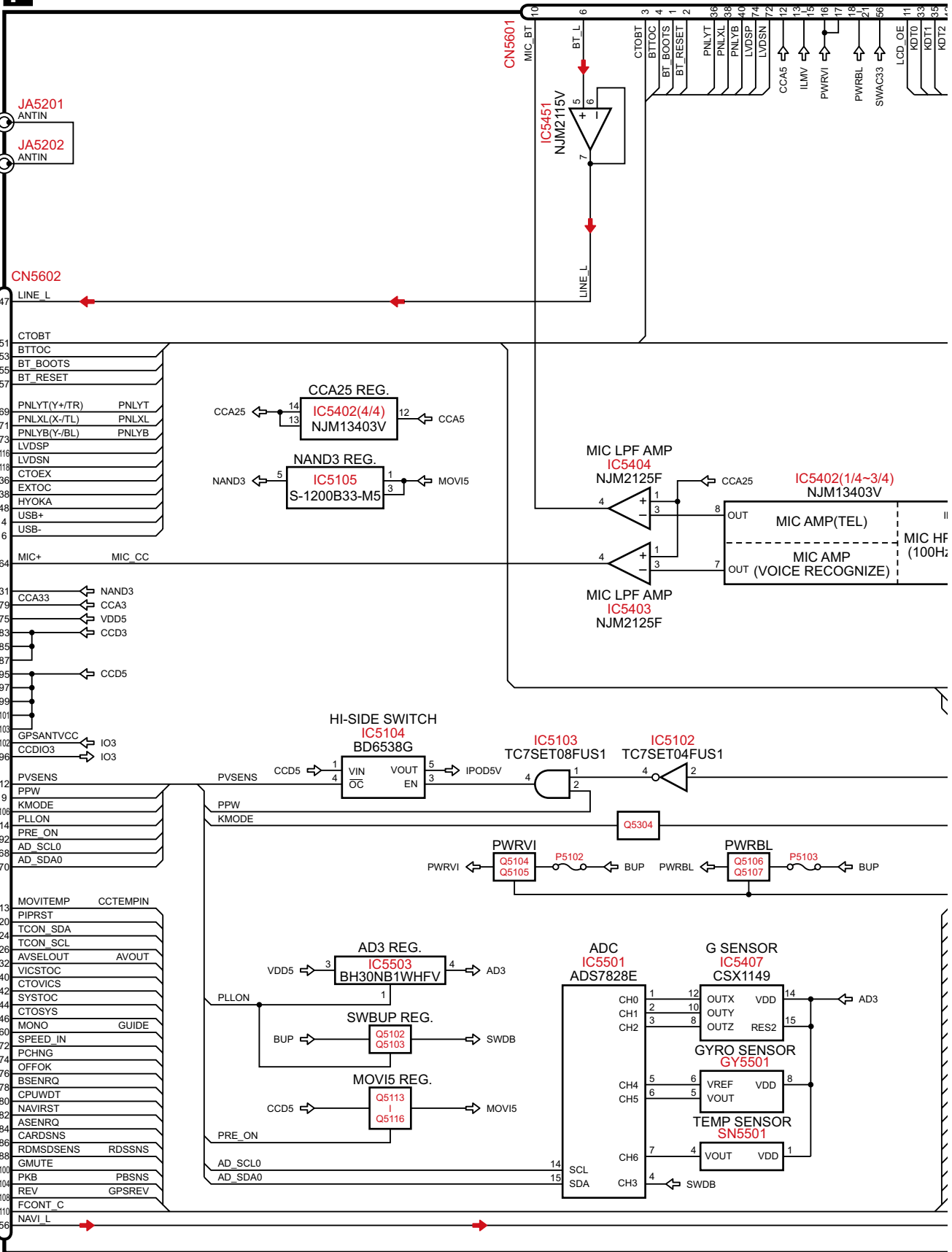


A

F NAVI UNIT

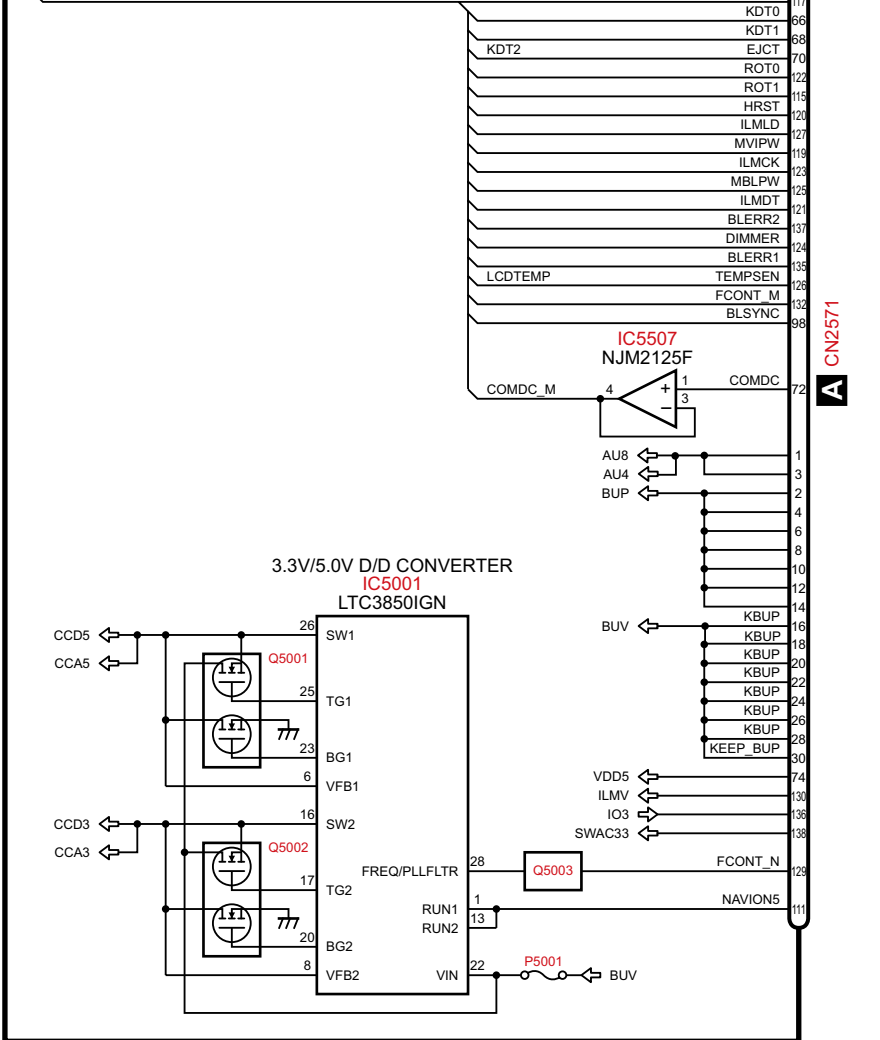
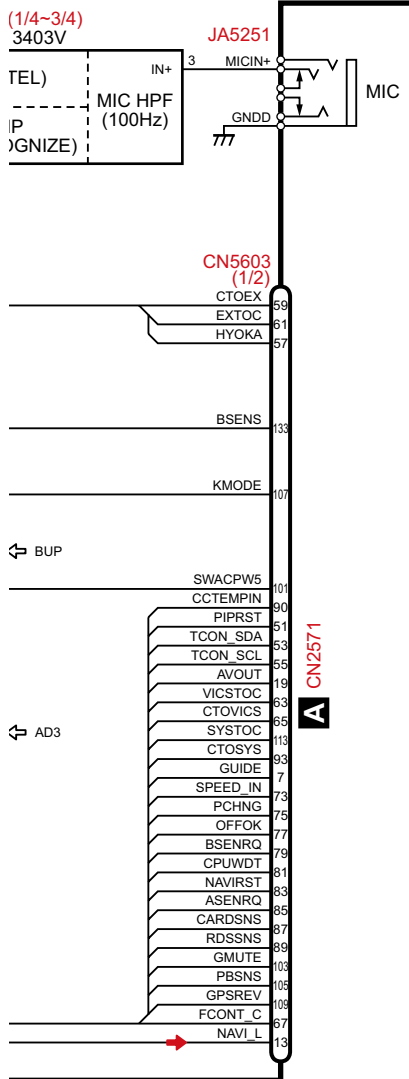
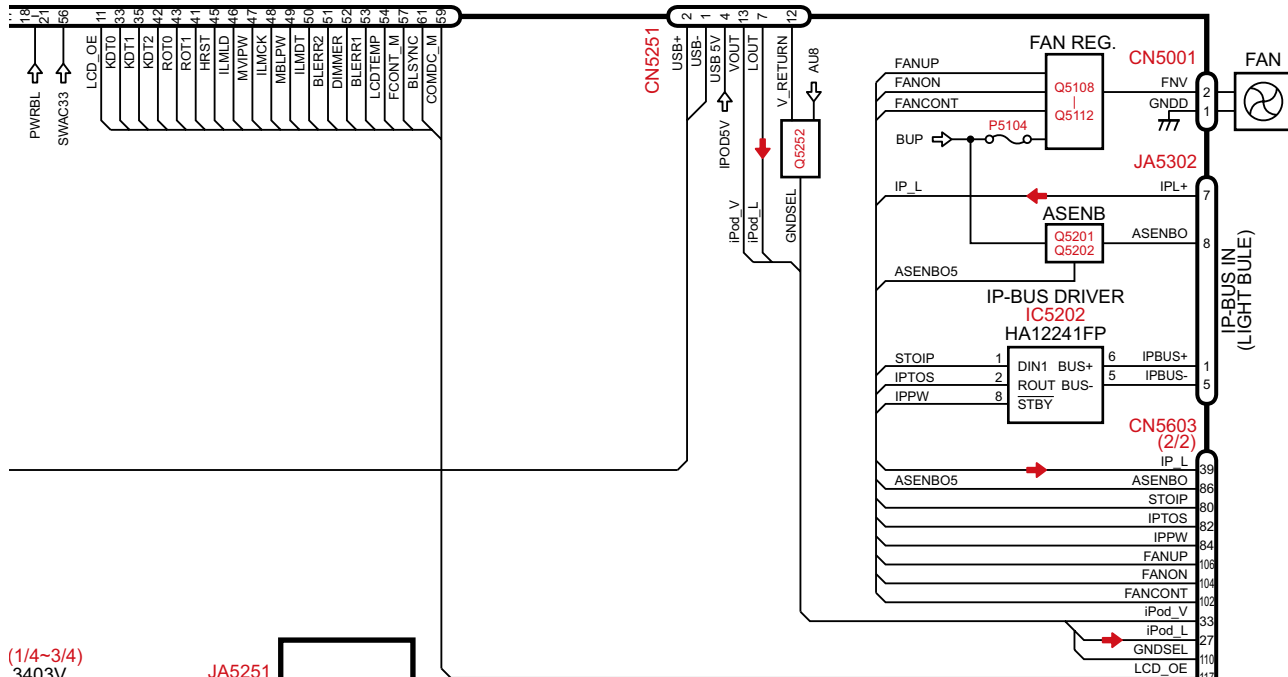
G CN3301

E JA4711
GPS ANTENNA
JA5201 ANTIN
JA5202 ANTIN



>N3301

USB/iPod Connector



G MONITOR UNIT

A

B

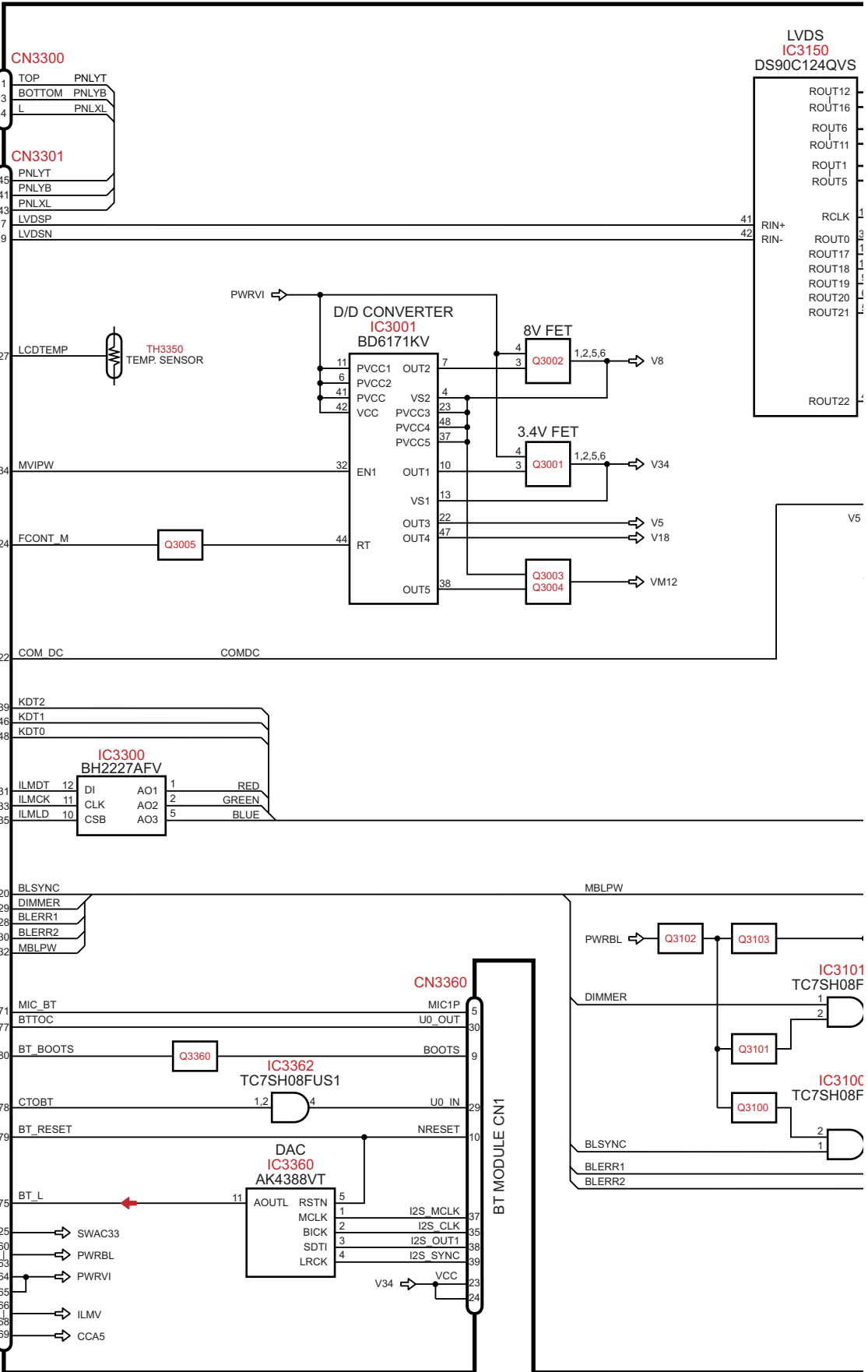
C

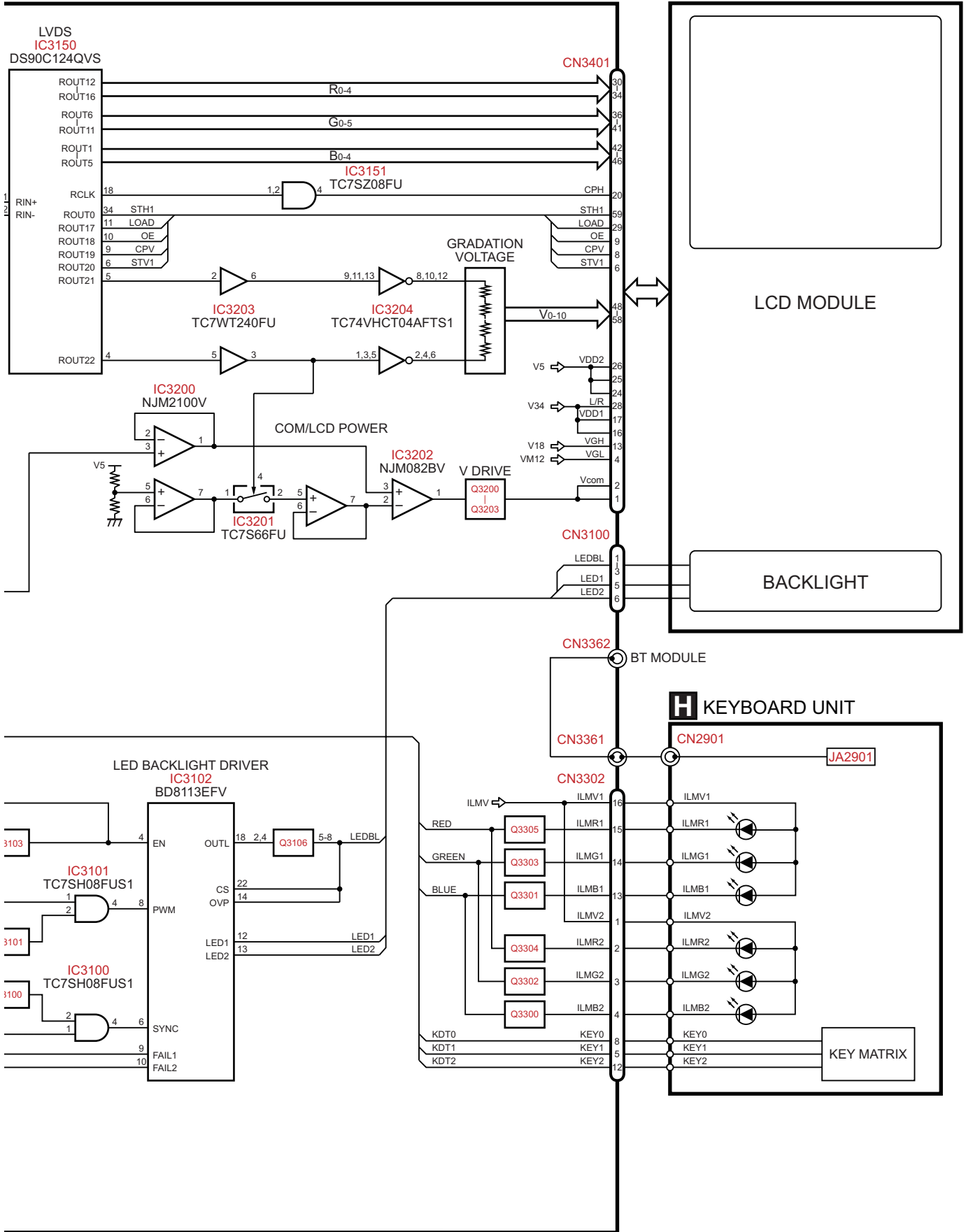
D

E

F

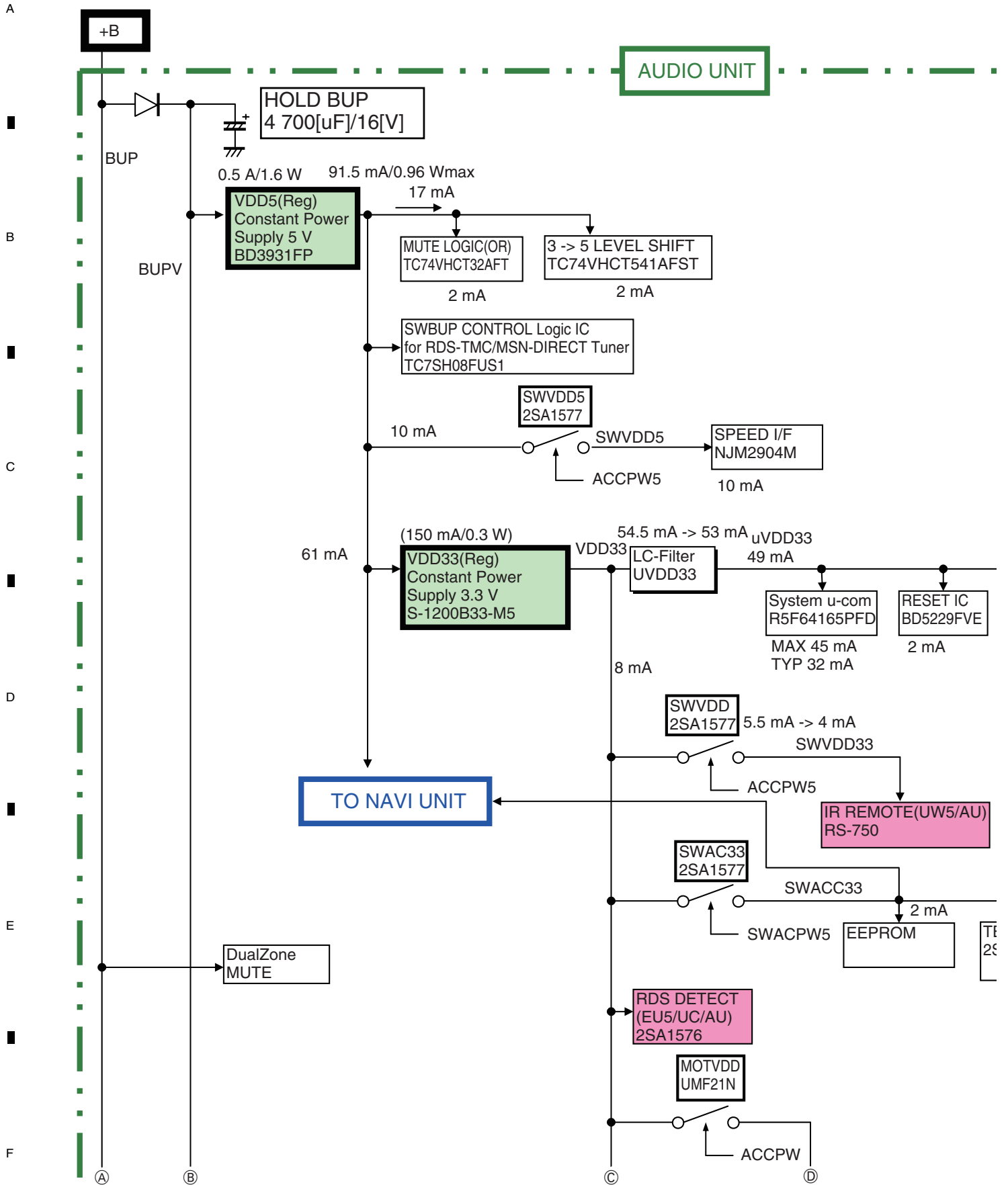
TOUCH PANEL





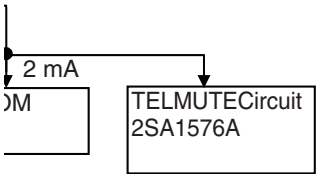
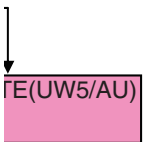
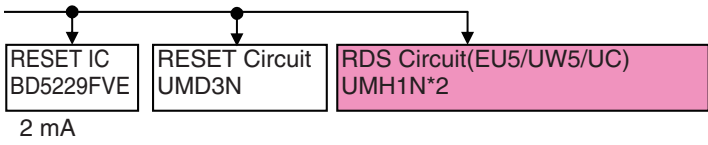
4.3 POWER SUPPLY SYSTEM FIGURE

AUDIO UNIT



Power Supply

This block differs with the region of destination.



A

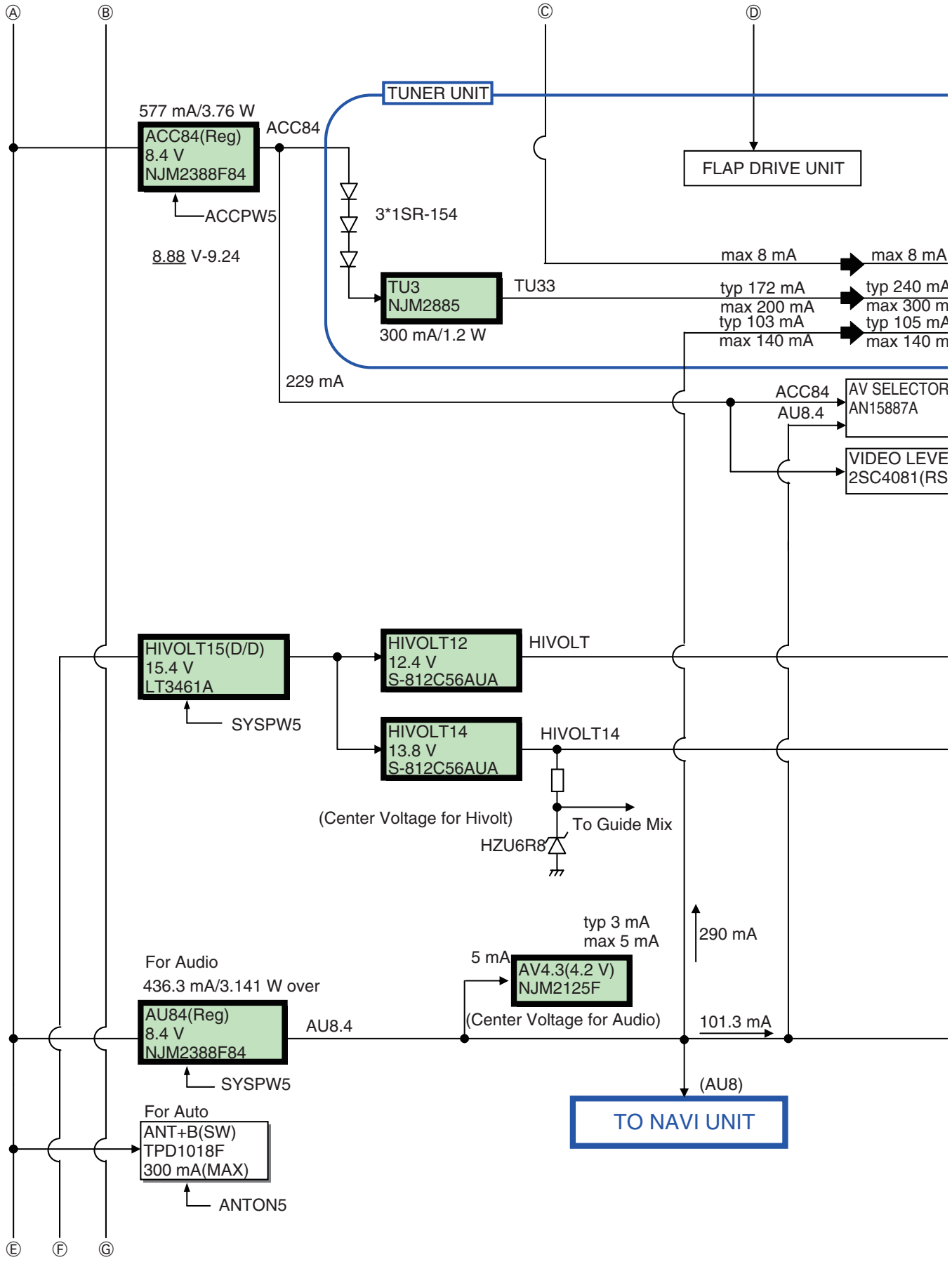
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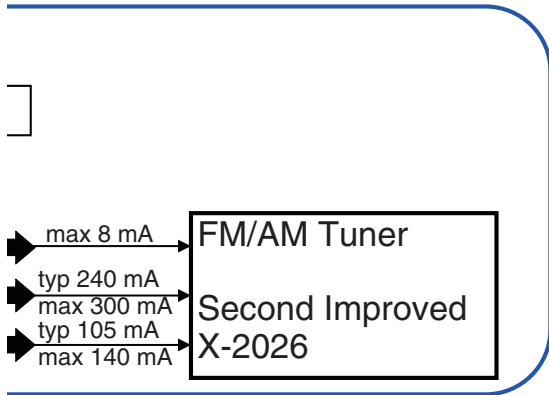
C

D

E

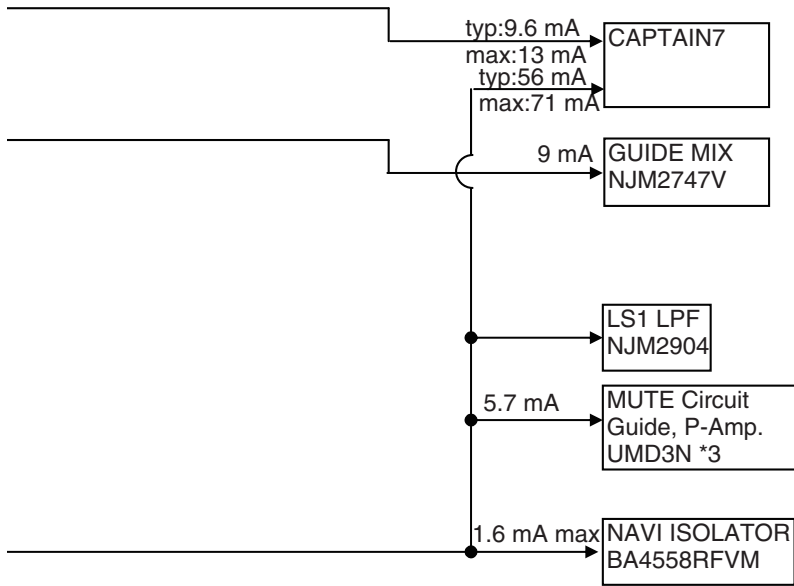
F





AV SELECTOR AN15887A typ:50 mA max:200 mA

VIDEO LEVEL SHIFT(2 -> 1) 2SC4081(RS)*2 15 mA



A

B

C

D

E

F

A

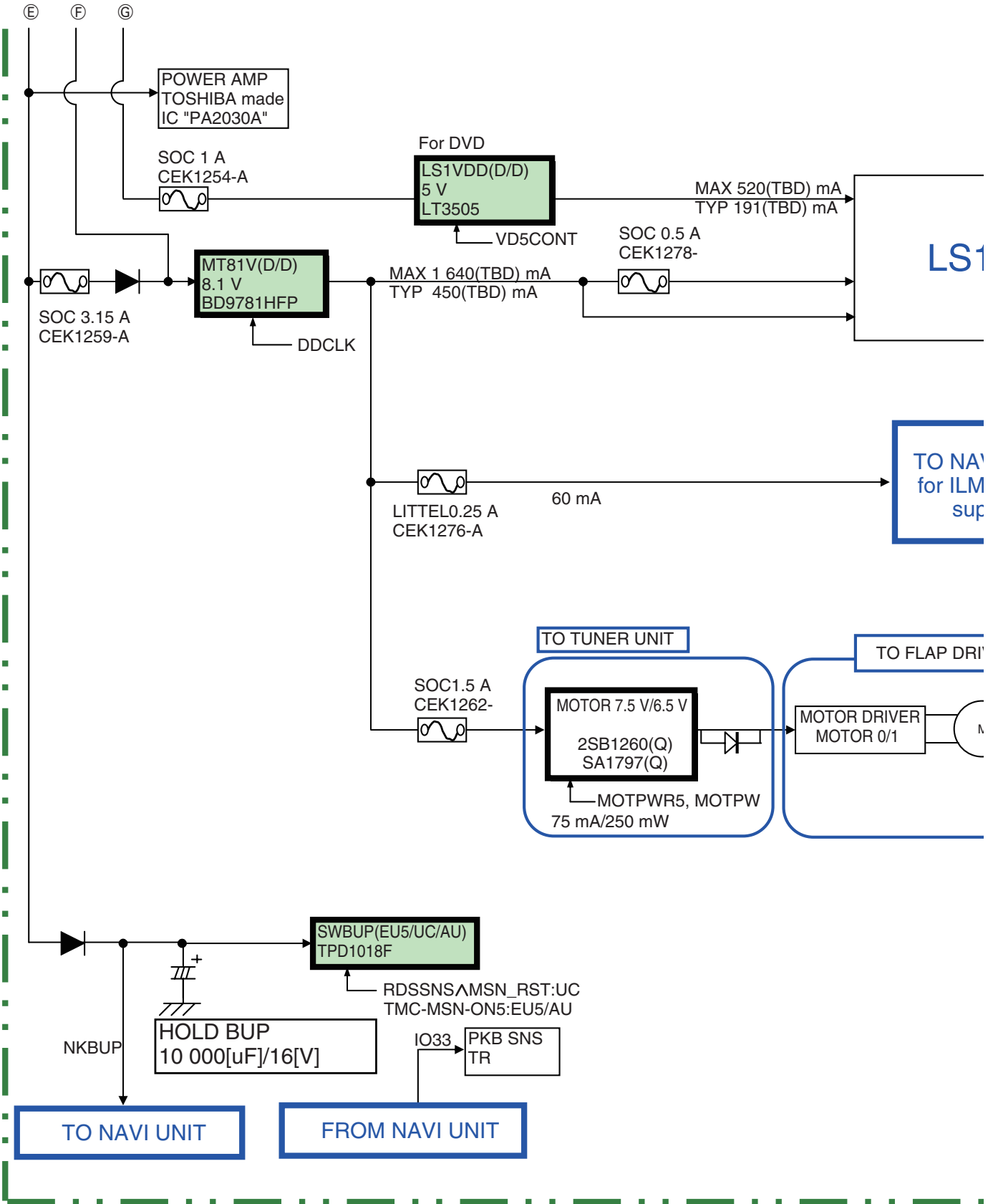
B

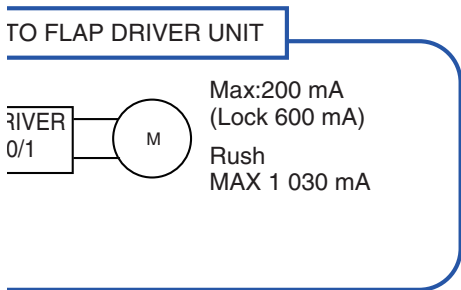
C

D

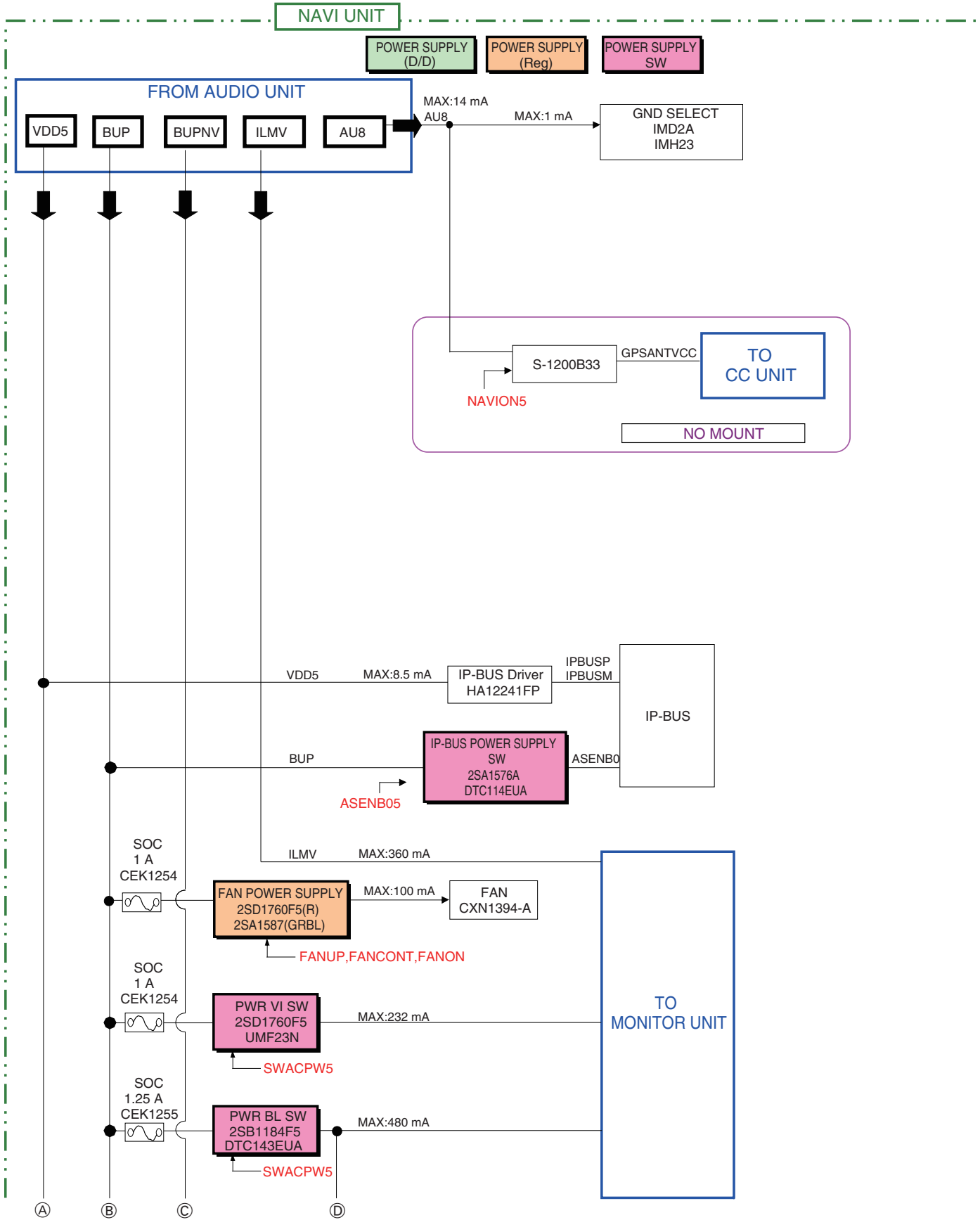
E

F





NAVI UNIT



A



■

B

■

C

■

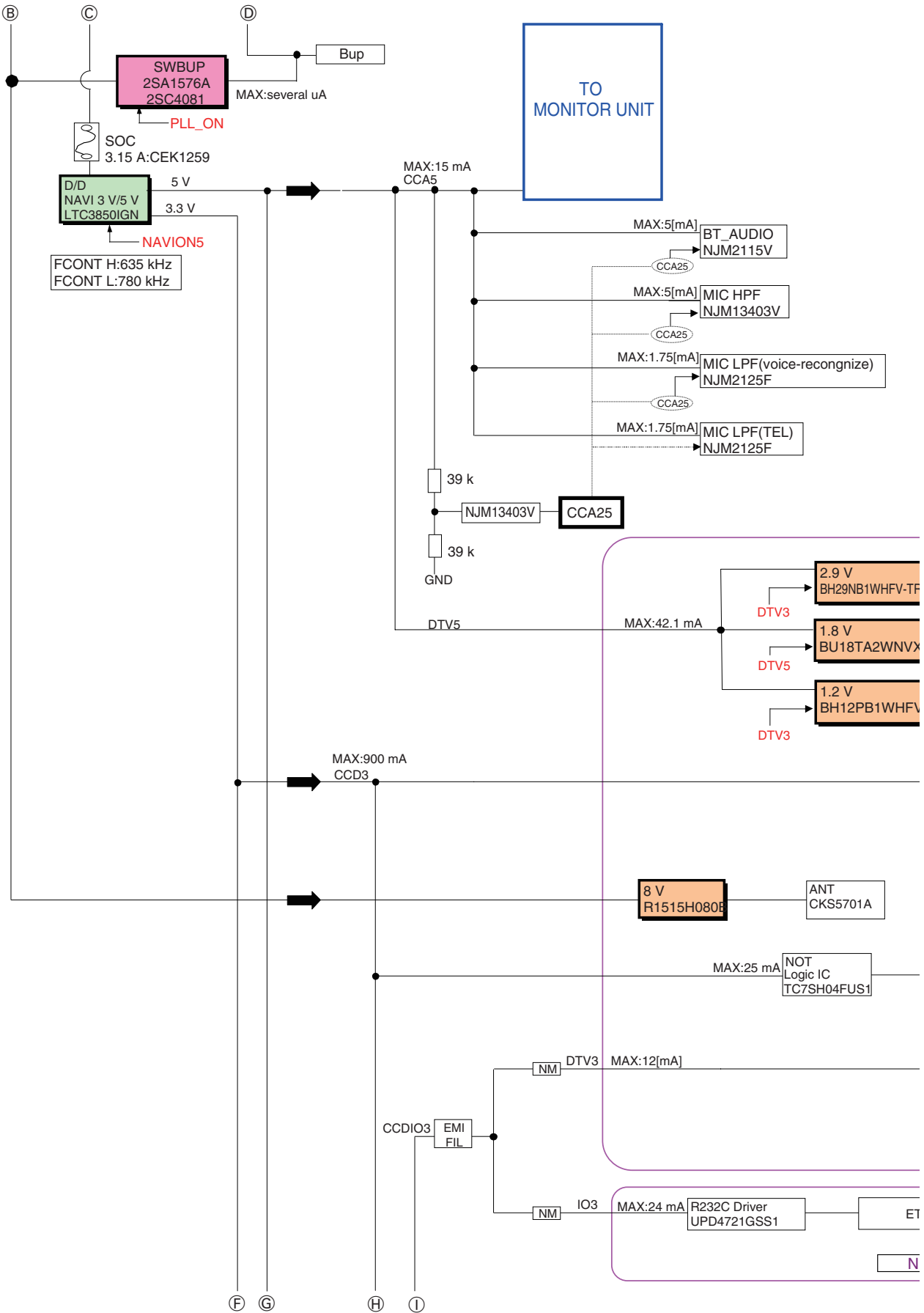
D

■

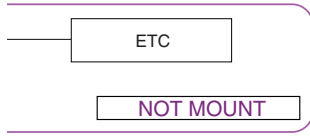
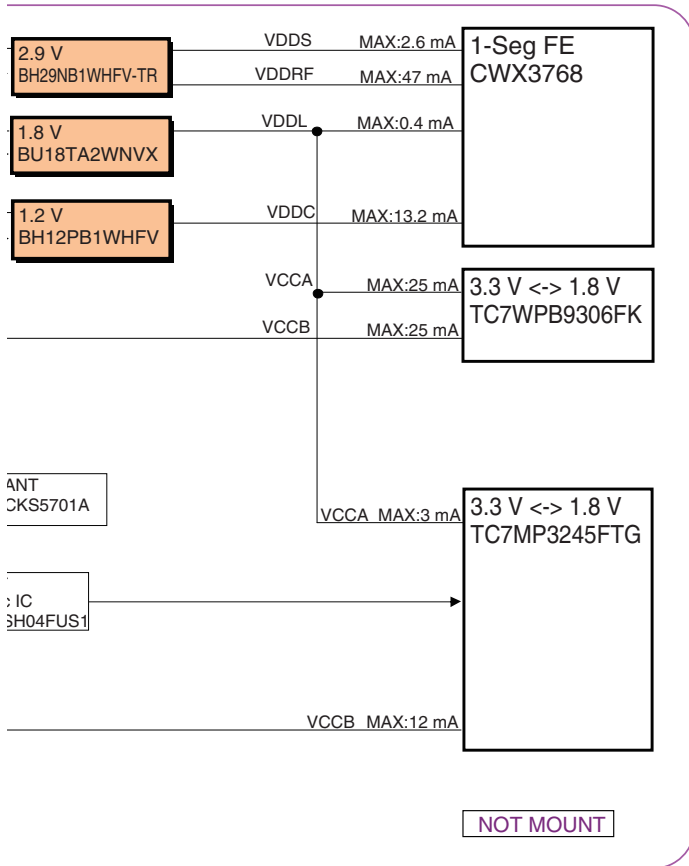
E

■

F



(congimize)



A

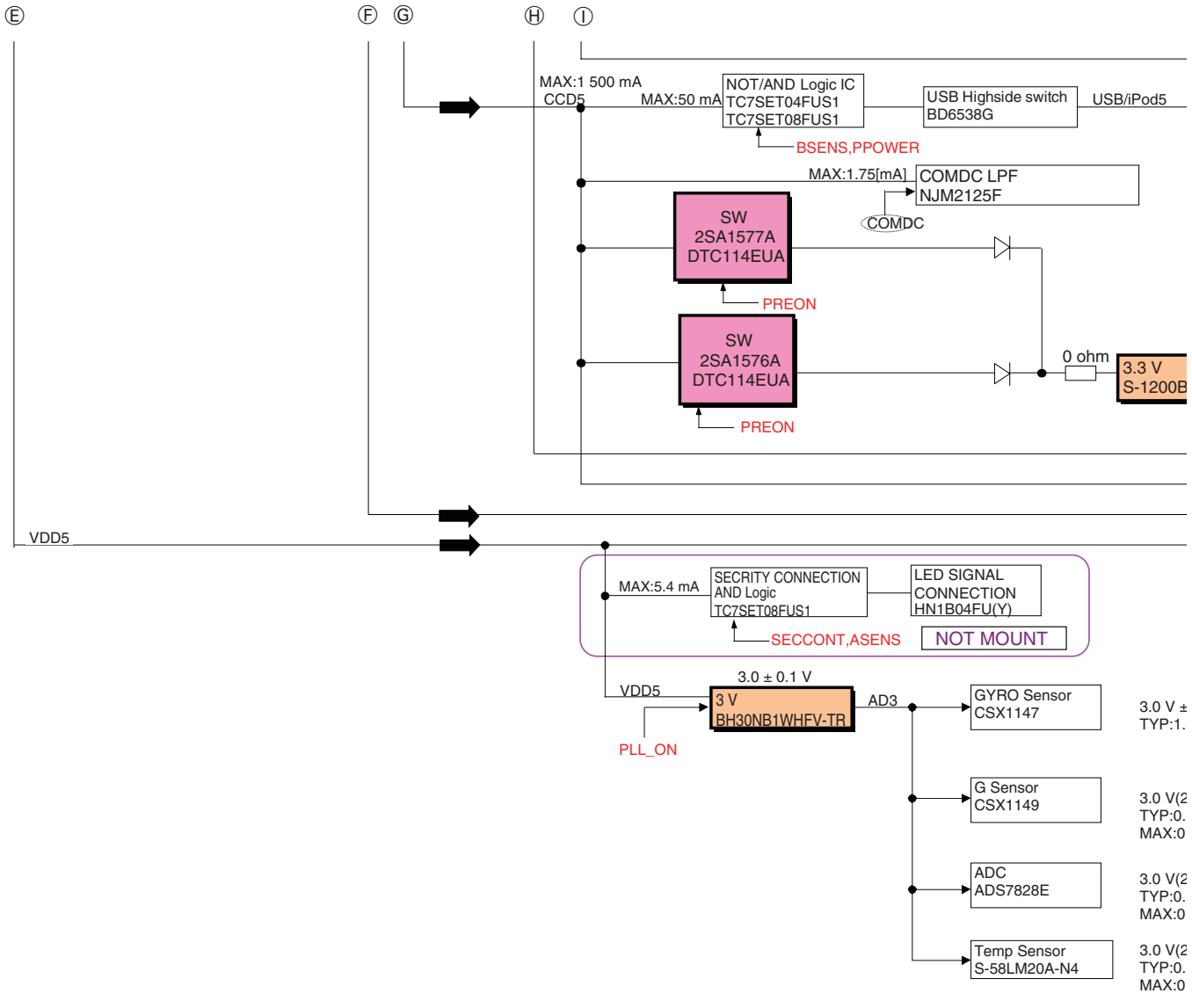
B

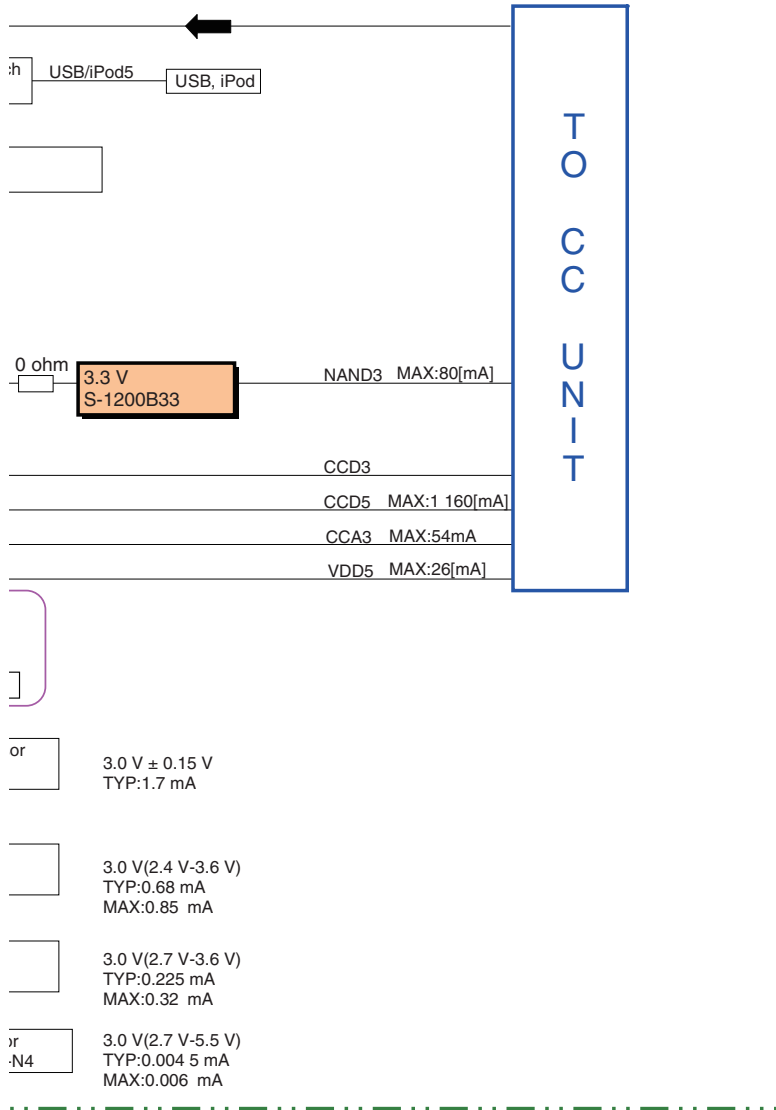
C

D

E

F





A

B

C

D

E

F

CC UNIT

TO NAVI UNIT

A

B

C

D

E

F

■

■

■

■

■

■

VDD5

CCD5

CCD3

NAND3

LDO
RTC3.3V
BU33TA2WNVX

RTC3

TYP:21 mA
1.2 ± 0.12 V

D/D
CCD1.2V
LTC3412A

CCD12

PRE_ON
MAX:248.6 mA MAX:880.5 mA
(Efficiency:85%)

BD6522F

CCD33

IO_ON
MAX:516.1 + @ mA

MAX:911.2 + @ mA
2.5 ± 0.2 V

D/D
CCD2.5V
LTC3412A

CCD25

IO_ON
MAX:1 549.1 + @ mA

Power supply
(D/D)

Power supply
(LDO)

1.25 V:0.1 mA

PLL_ON

PLL_ON

Sequence generation

RST1

3.0 V

PRE_ON

RST2

3.5 V

IO_ON

RST3

4.4 V

PLL_ON

2.5 ± 1%

LDO
LCD25
BU25TA2WNVX

MAX:105 mA
Pc:84 mW

LCD25

1.5 ± 0.025 V

LDO
LCD15
BU15TA2WNVX

MAX:120 mA
Pc:216 mW

LCD15

A

B

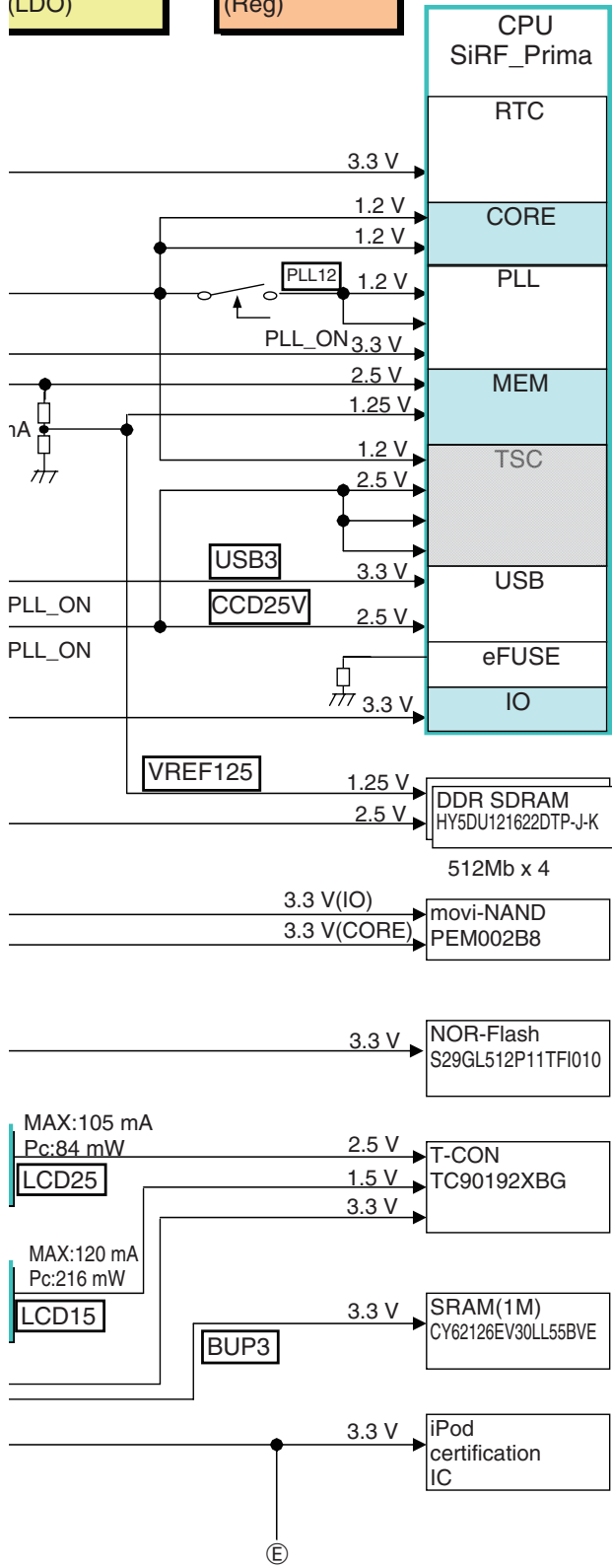
C

D

Power supply (LDO)

Power supply (Reg)

CC UNIT



RTC
 VDD_RTC 0.96 V-1.26 V TYP:1 mA
 VDD_LVR 2.3 V-3.6 V TYP:1 mA
 VDDIO_RTC 3.3 V(2.3 V-3.6 V) TYP:1 mA

CORE
 VDD_PRE 1.2 V ± 0.06 V TYP:50 mA
 VDD_PDN 1.2 V ± 0.06 V TYP:800 mA
PLL
 VDDA_PLL 1.2 V ± 0.06 V TYP:10 mA
 VDD_PLL 1.2 V ± 0.06 V TYP:10 mA
 VDDIO_PLL 3.3 V 3.0 V-3.6 V TYP:100 mA

MEM
 VDDIO_MEM 2.4 V-2.6 V-2.7 V TYP:100 mA
 VREF_MEM 0.49-0.51*(VDDIOMEM) TYP:0.005 mA

TSC
 VDD_TSC 1.14 V-1.26 V TYP:0.5 mA
 VDDA_TSC 2.25 V-2.75 V } TYP:25 mA
 VDDIO_TSC 2.25 V-2.75 V }

USB
 VREF_ADC 2.5 V 2.0 V to 2.75 V TYP:@ mA
 VDDA3V3_USB 3.0 V-3.6 V TYP:6 mA
 VDDA2V5_USB 2.5 V ± 0.25 V TYP:22 mA

eFUSE
 VPROG 2.5 V ± 0.25 V TYP:30 mA

IO
 VDDIO 3.0 V-3.6 V TYP:100 mA

DDR SDRAM
 HY5DU121622DTP-J-K
 512Mb x 4
 2.6 V ± 0.1 V 1.25 V ± 0.125 V
 MAX:350 mA *4 MAX:1 mA? *4

movi-NAND
 PEM002B8
 3.3 V(2.5 V-3.6 V)
 MAX:100 mA

NOR-Flash
 S29GL512P11TFI010
 3.3 V ± 0.3 V
 MAX:90 mA

T-CON
 TC90192XBG
 3.3 V ± 0.3 V 2.5 V ± 0.2 V 1.5 V ± 0.2 V
 MAX:70 mA MAX:105 mA MAX:120 mA

SRAM(1M)
 CY62126EV30LL55BVE
 3.3 V(2.2 V-3.6 V)
 MAX:20 mA

iPod certification IC
 3.3 V(1.8 V-3.6 V)
 MAX:10.0 mA

A

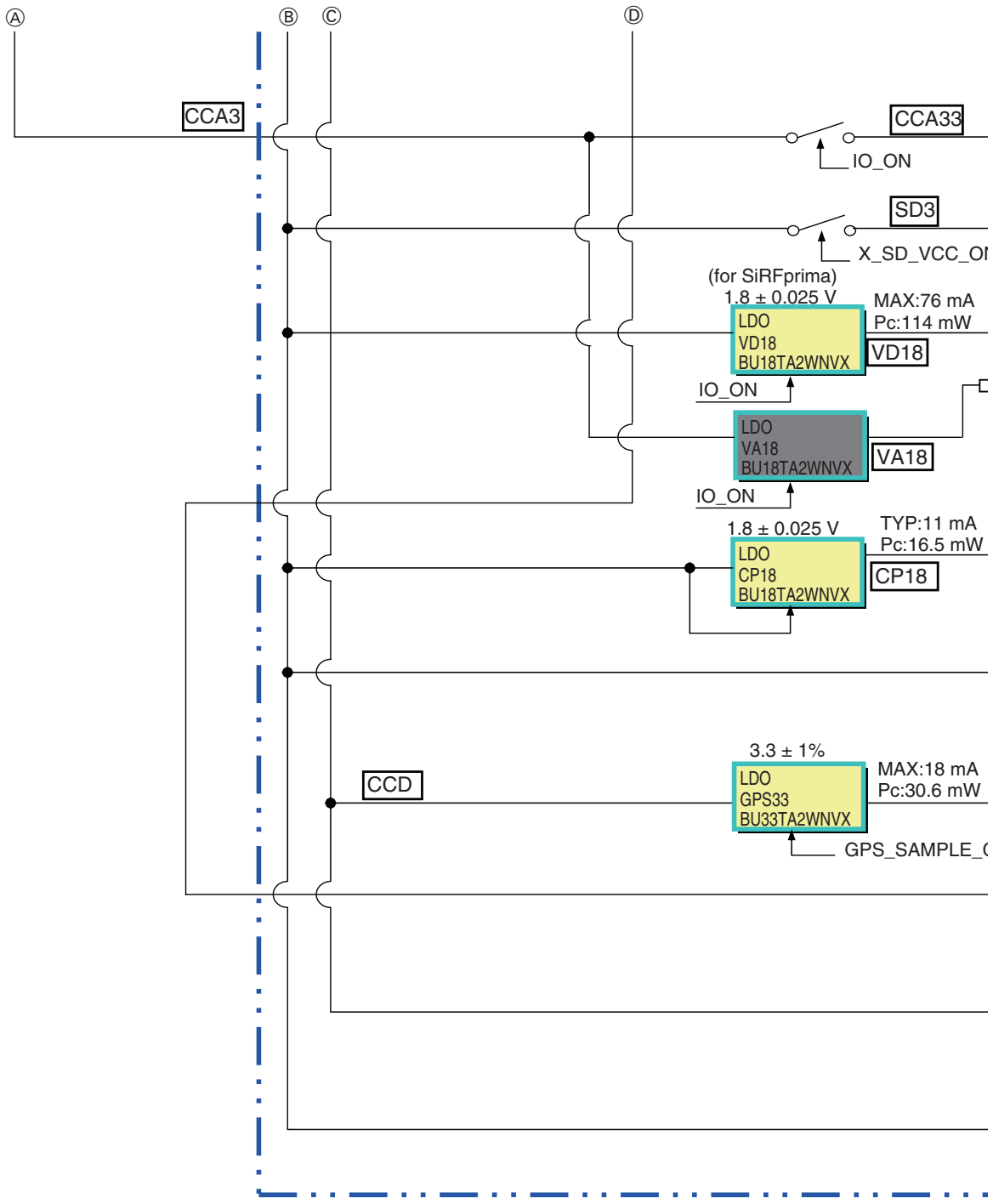
B

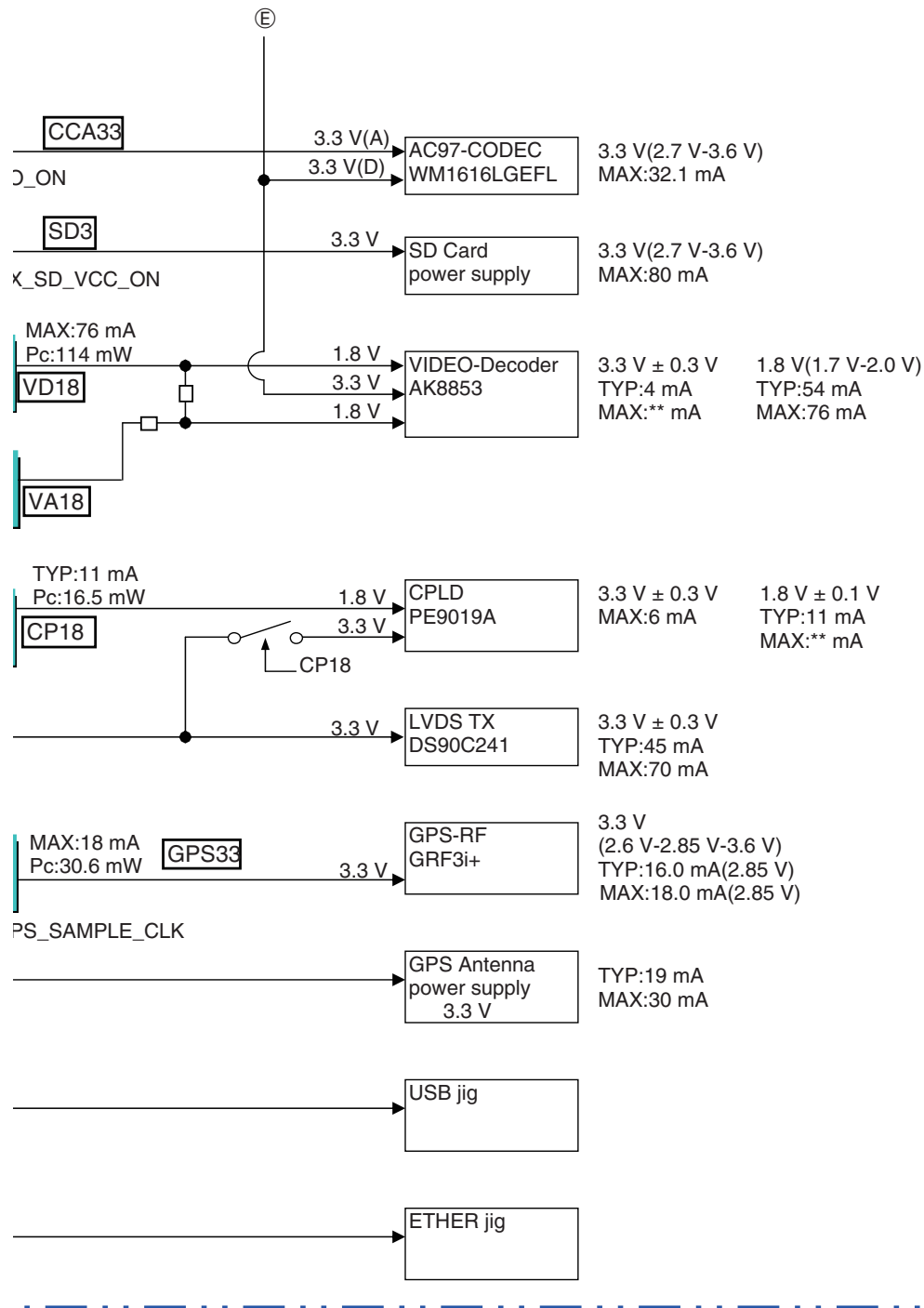
C

D

E

F





A
B
C
D
E
F

MONITOR UNIT

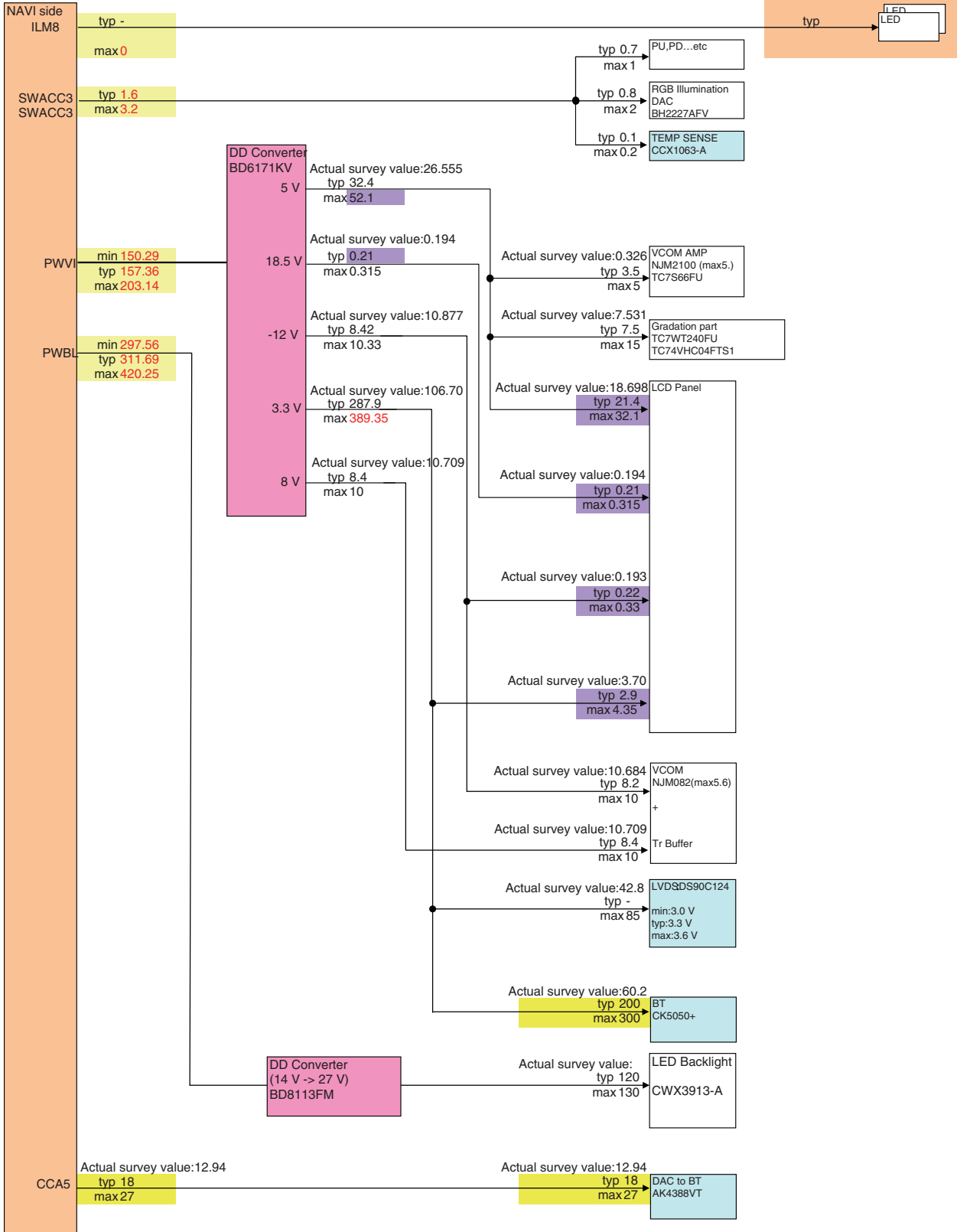
A

Power supply

Electric current unit: mA

KEY PCB

typ



B

C

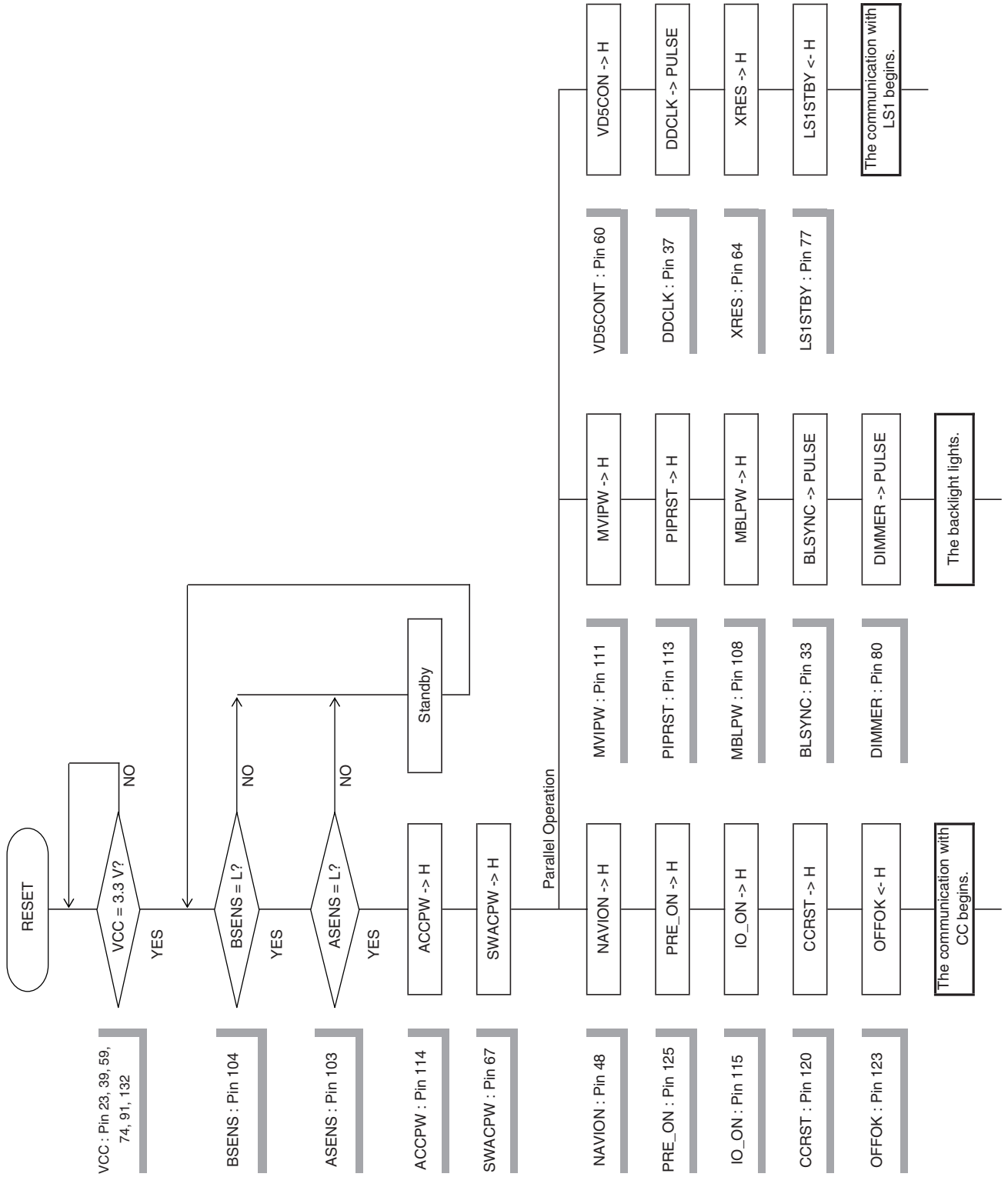
D

E

F

5. DIAGNOSIS

5.1 OPERATIONAL FLOWCHART



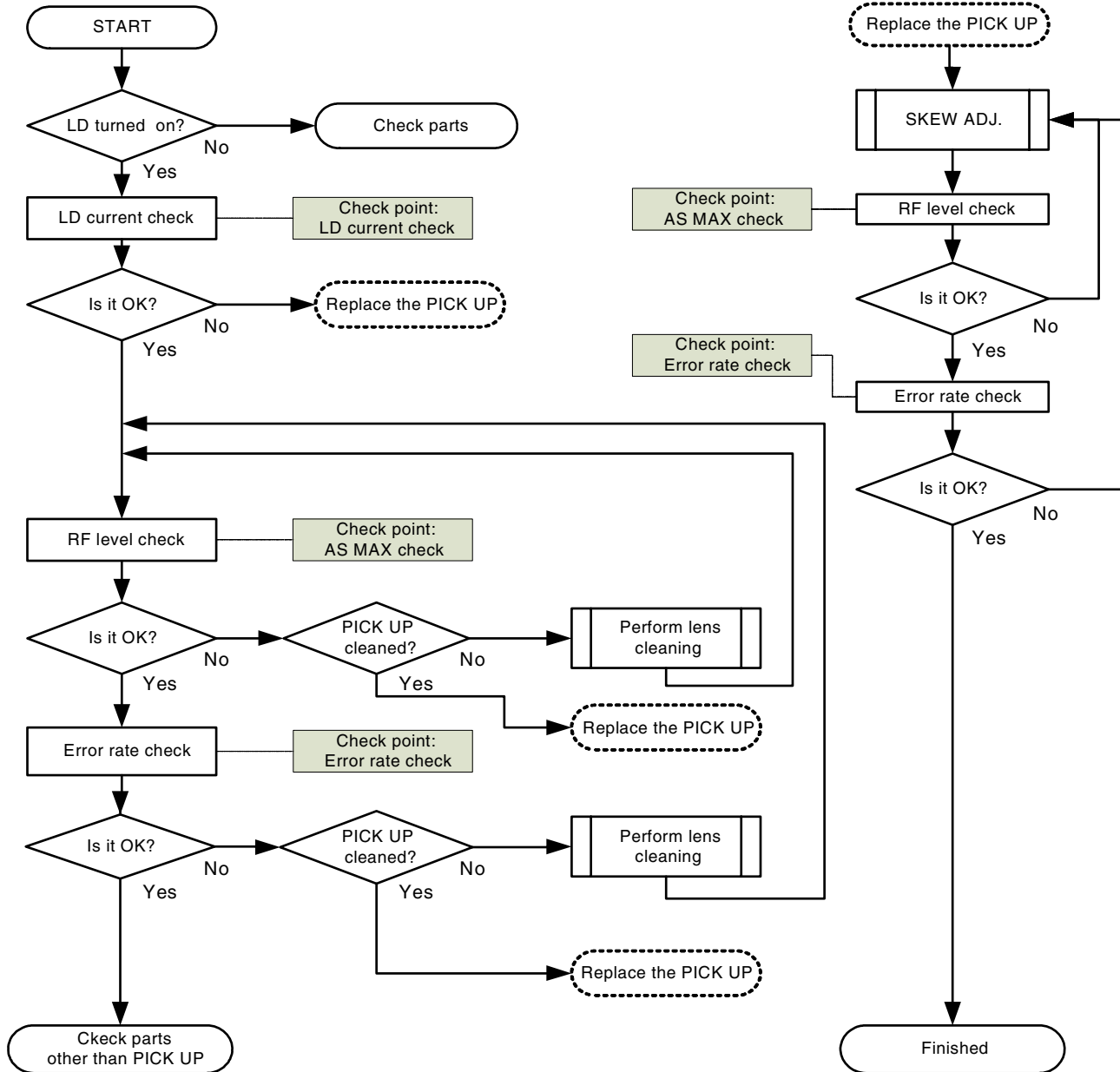
5.2 INSPECTION METHOD OF PICKUP UNIT

Disc to be used

CD-DA: TCD-782

DVD-Video: TDV-582

Execution method

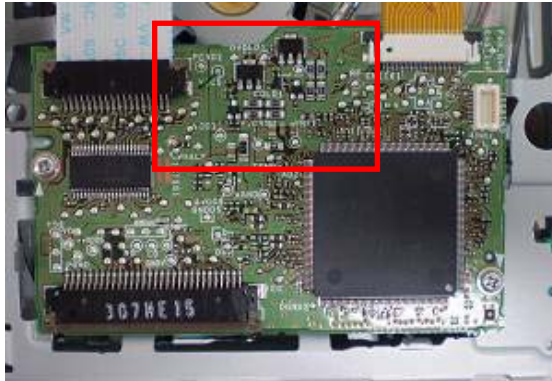


LD current check

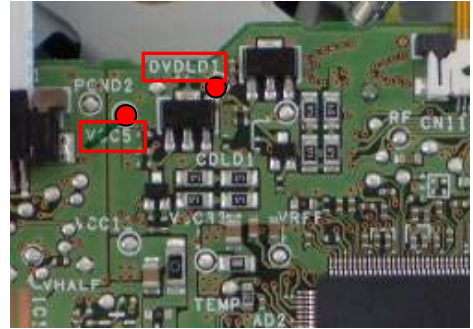
Check

Status: [Focus closed] of TEST MODE

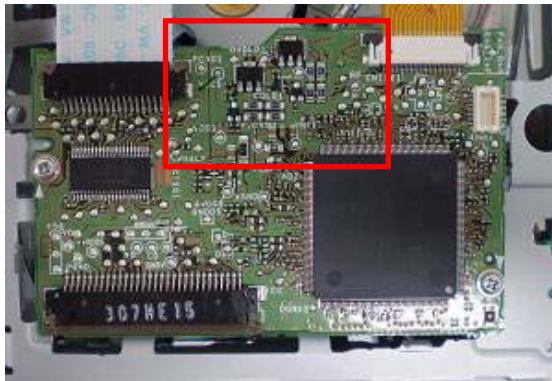
NO.	Disc	Check Point	Threshold	Remarks: LD current
1	GGV1025	DVDLD1-VCC5_3	60 - 390 (mV)	10 - 65 (mA)



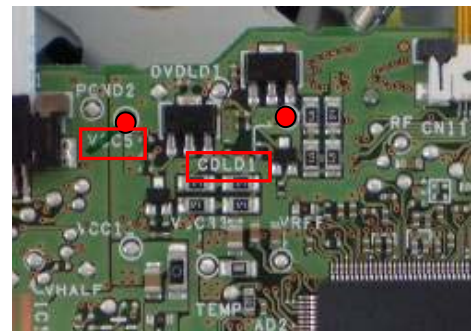
Expansion



NO.	Disc	Check Point	Threshold	Remarks: LD current
2	TCD-782	CDLD1-VCC5_3	60 - 360 (mV)	10 - 60 (mA)



Expansion



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

ASMAX check

ASMAX value shows the value of RF level.

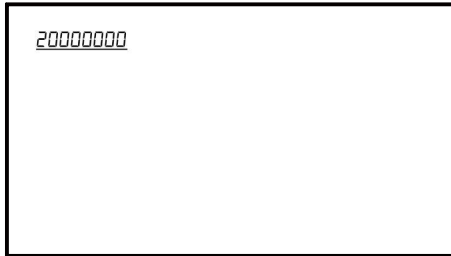
Status: [Foucs closed] of TEST MODE

A

No.	Disc	Check Point	Threshold	Remarks:
1	GGV1025	8 digits value of ASMAX on display	more than 0000 0B00	Only four last digits are displayed according to the product.
2	TCD-782	8 digits value of ASMAX on display	more than 0000 0C00	Only four last digits is displayed according to the product.

Test mode display will not appear on the display of this product. Connect the rear monitor output to a monitor.

B



In this case, the value is displayed for a split second. When you tried to perform [FOCS CLOSE], the display will charge automatically in the following order. [1FFF0000]->[FEMAX]->[FE MIN]->[AS MAX]-> [ENV MAX]->[FE normal]->[Spindle gain]-> [TEMAX]->[TEMIN] ->[20000000] Watch carefully the value of ASMAX.

C

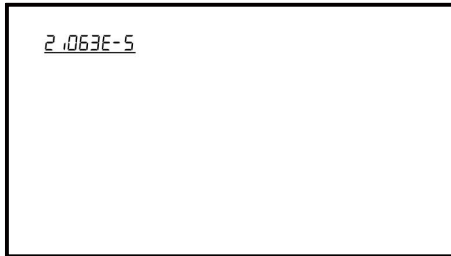
Error rate check

Status: [Tracking Closed] of TEST MODE

D

No.	Disc	Check Point	Threshold	Remarks:
1	GGV1025	ID: 40000	less than 1.000E-03	
2	GGV1025	ID: 200000	less than 1.000E-03	
3	TCD-782	ID: HOME Position	less than 2.500E-03	

Test mode display will not appear on the display of this product. Connect the rear monitor output to a monitor.

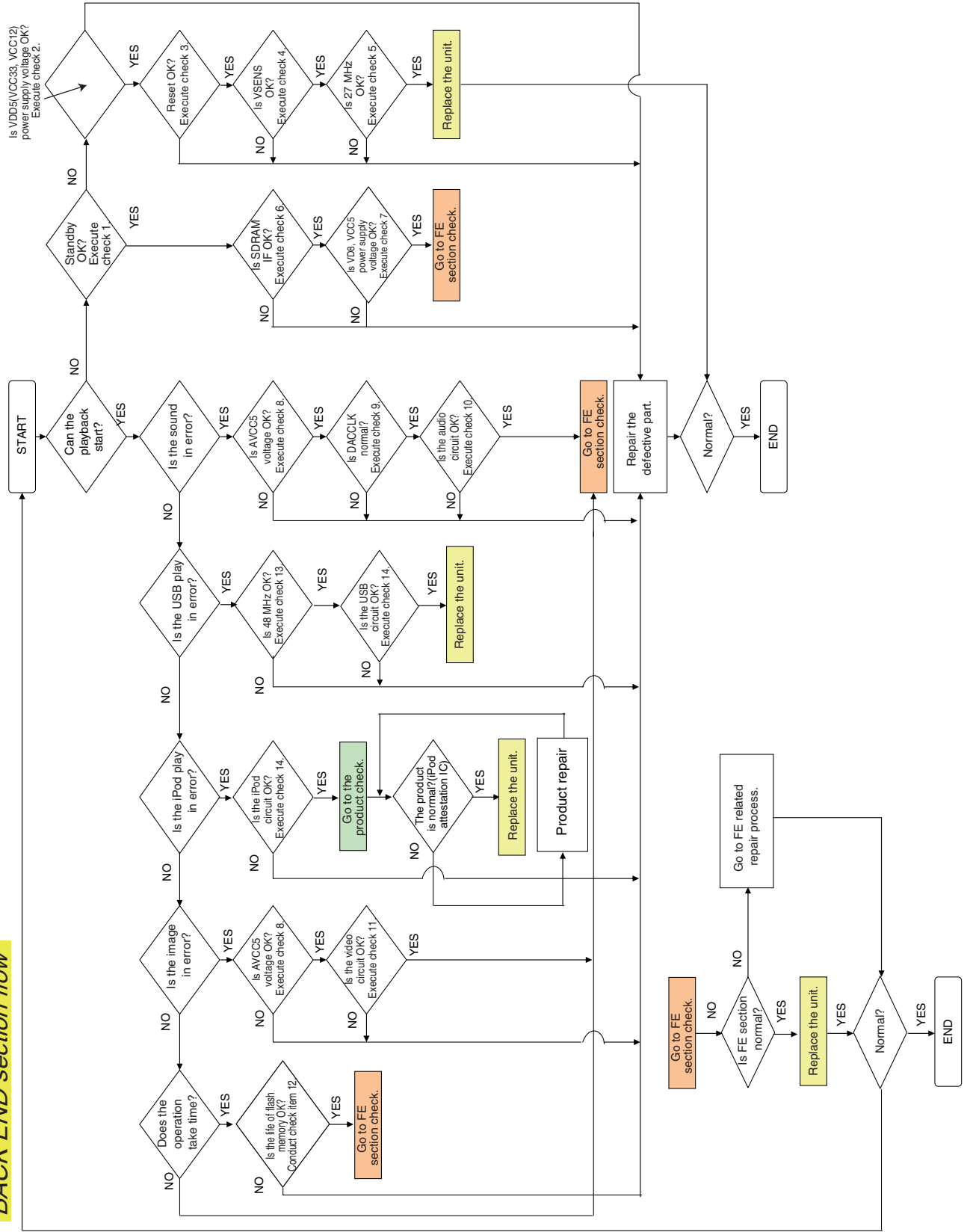


E

F

5.3 DIAGNOSIS FLOWCHART

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 V- 0.6 V or more	V

Side A

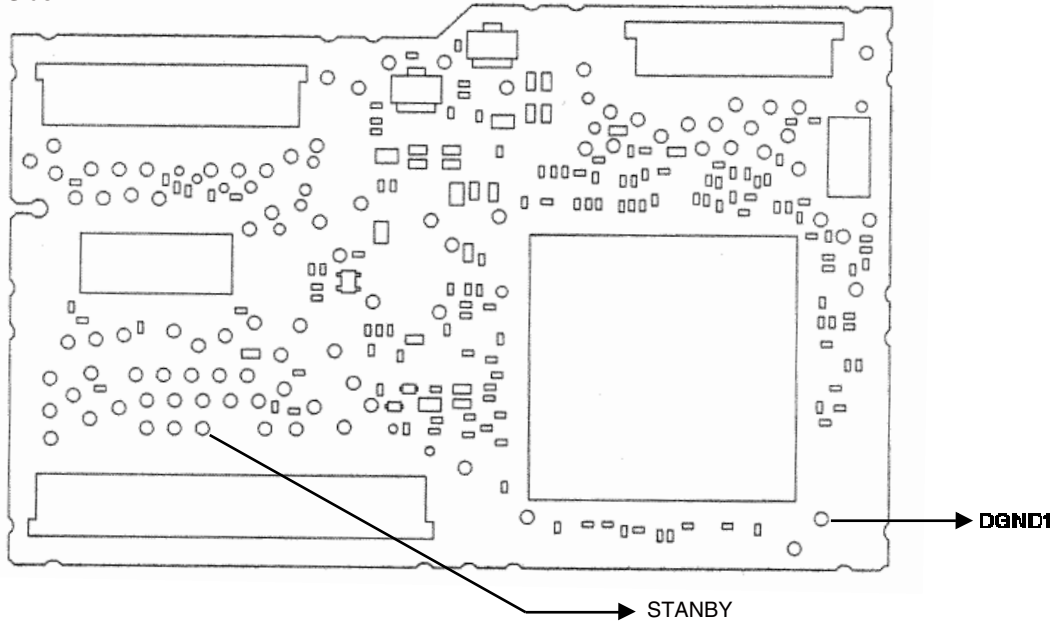


Fig 1.1: STANBY check point

D

E

F

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

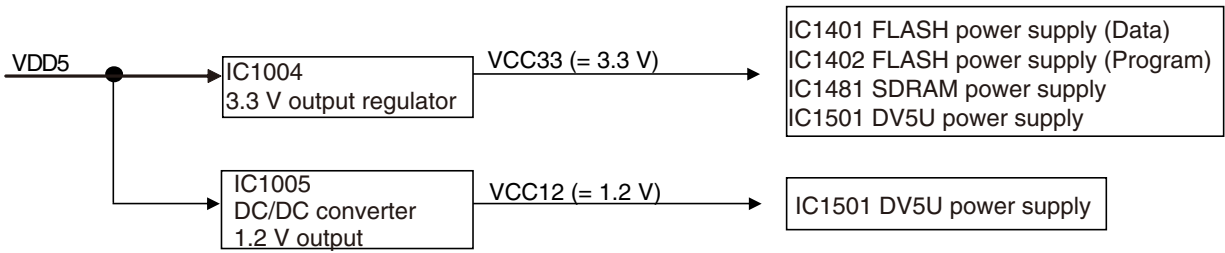


Fig 2.1: Power supply configuration

<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 ± 0.15	V
3	VCC12_1 - DGND1	ALL	1.2 ± 0.12	V

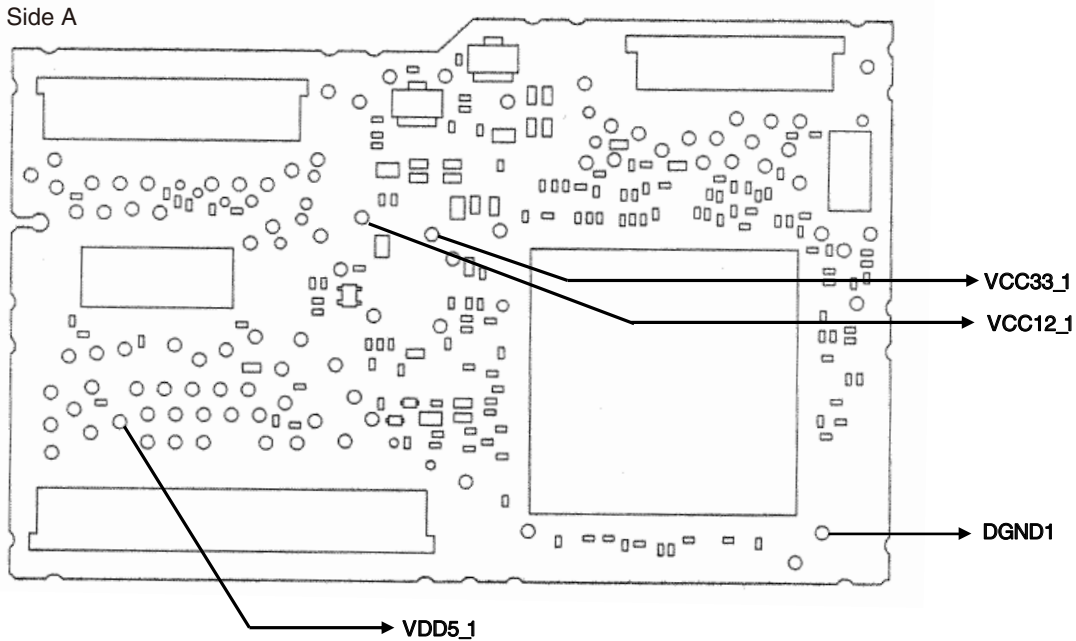


Fig 2.2: VDD5, VCC33, VCC12 voltage check points

Check 3: Reset OK?

A

<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	XRES-DGND1	ALL	VCC33 × 0.7 or more	V

Side A

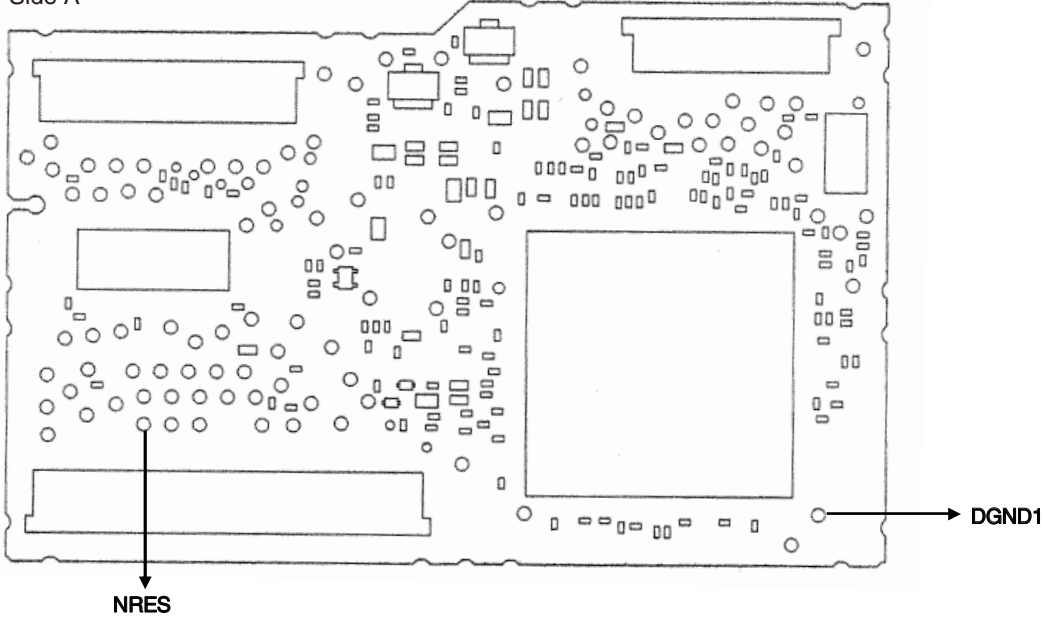


Fig 3.1: RESET check point

D

E

F

Check 4: Is VSENS OK?

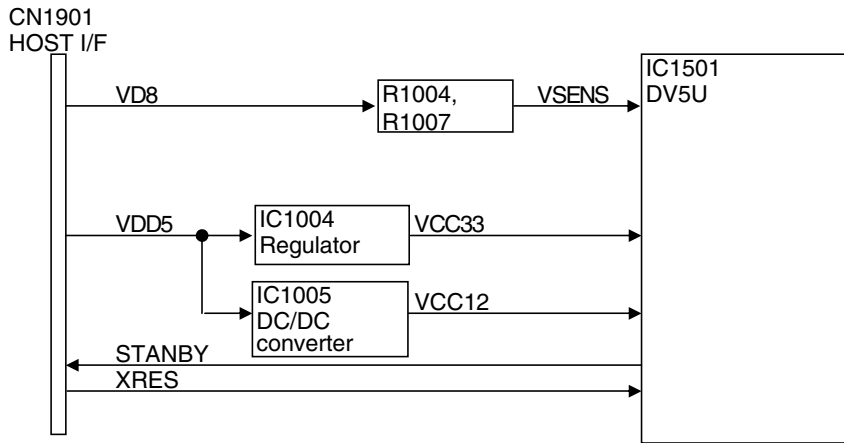


Fig 4.1: Power supply configuration and VSENS

<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 ± 0.4 V

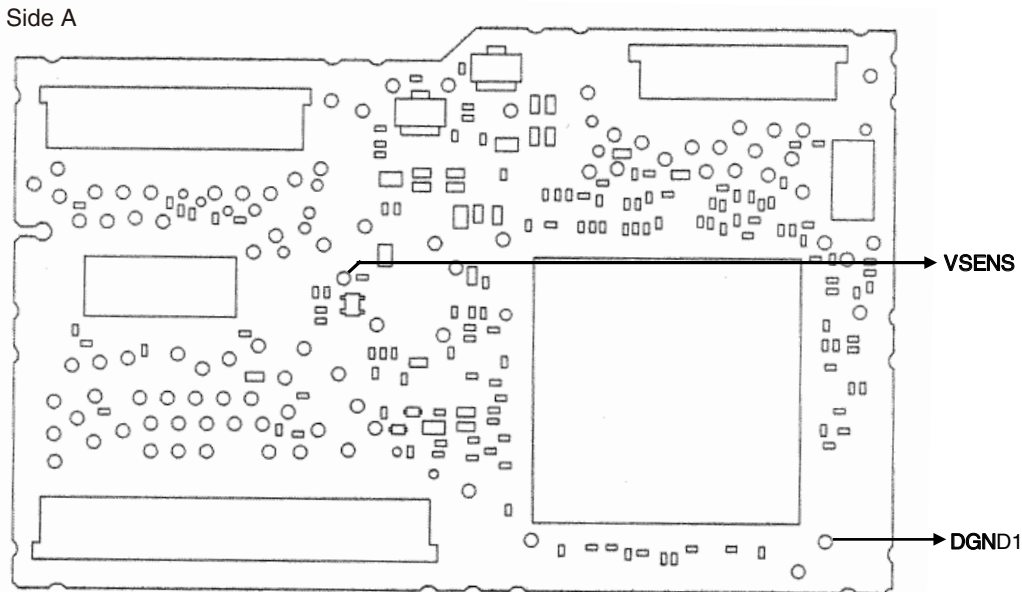
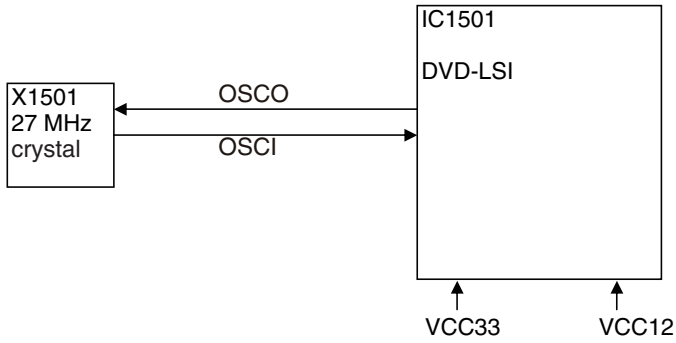


Fig 4.2: VSENS check point

Check 5: 27 MHz Normal?

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

A



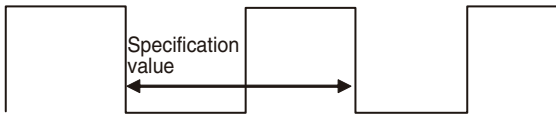
B

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.

C

NO.	Check point	Module No.	Specification value	Unit
2	IC1501 169pin	ALL	27 MHz ± 50 ppm	ppm

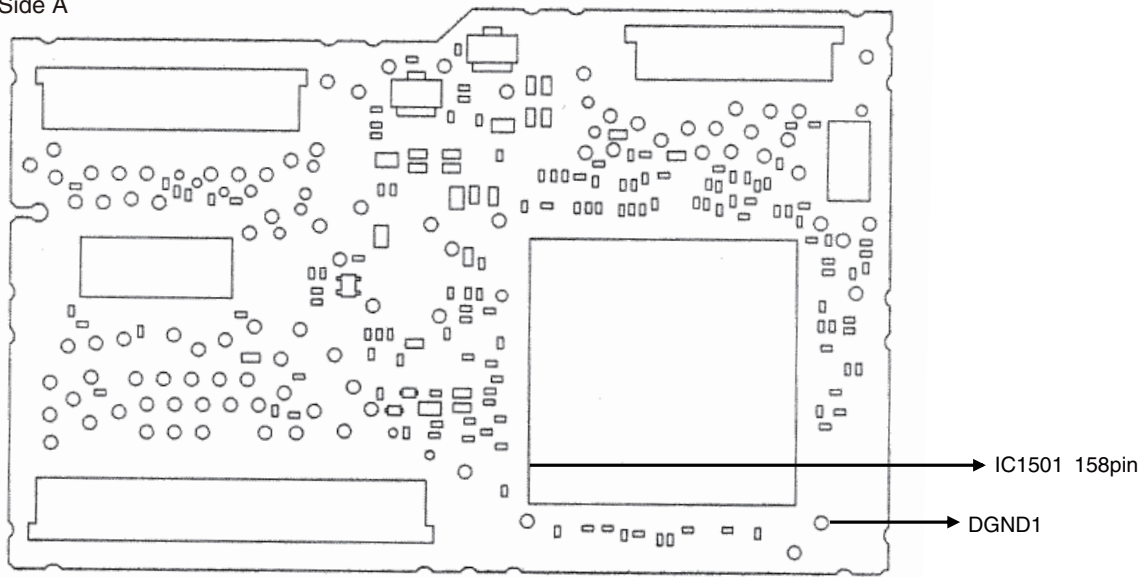


GND

Fig 5.2: Clock specification value

D

Side A



E

Fig 5.3: 27 MHz check point

F

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.

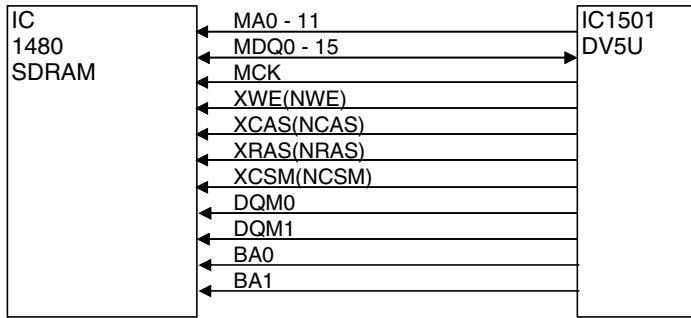


Fig 6.1: SDRAM I/F

<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.

A

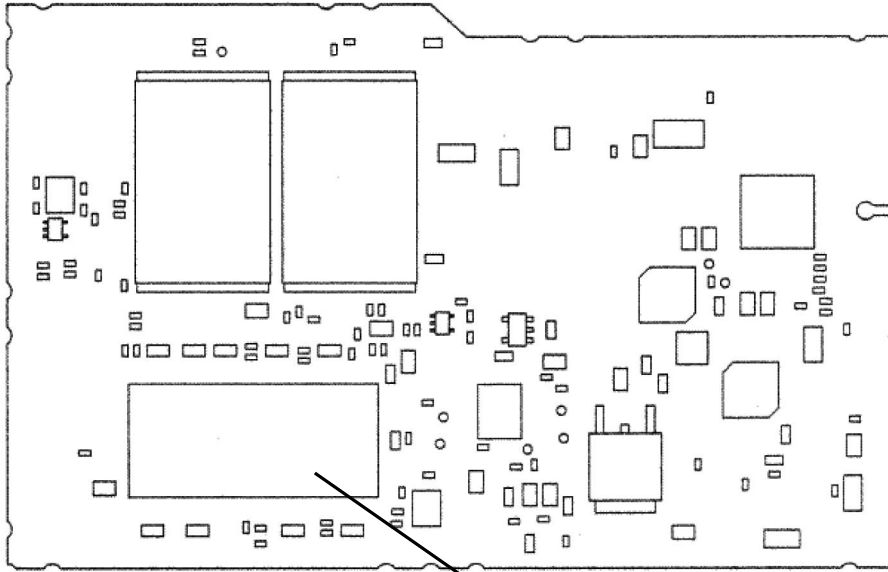
NO.	Signal name	Check point 1	Check point 2	Specification value
1	MA0	IC1480 23pin	IC1501 201pin	56 ohm ± 5 %
2	MA1	IC1480 24pin	IC1501 203pin	56 ohm ± 5 %
3	MA2	IC1480 25pin	IC1501 207pin	56 ohm ± 5 %
4	MA3	IC1480 29pin	IC1501 209pin	56 ohm ± 5 %
5	MA4	IC1480 30pin	IC1501 208pin	56 ohm ± 5 %
6	MA5	IC1480 31pin	IC1501 206pin	56 ohm ± 5 %
7	MA6	IC1480 32pin	IC1501 202pin	56 ohm ± 5 %
8	MA7	IC1480 33pin	IC1501 200pin	56 ohm ± 5 %
9	MA8	IC1480 34pin	IC1501 198pin	56 ohm ± 5 %
10	MA9	IC1480 33pin	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	0.17 ohm or lower
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 %

D

E

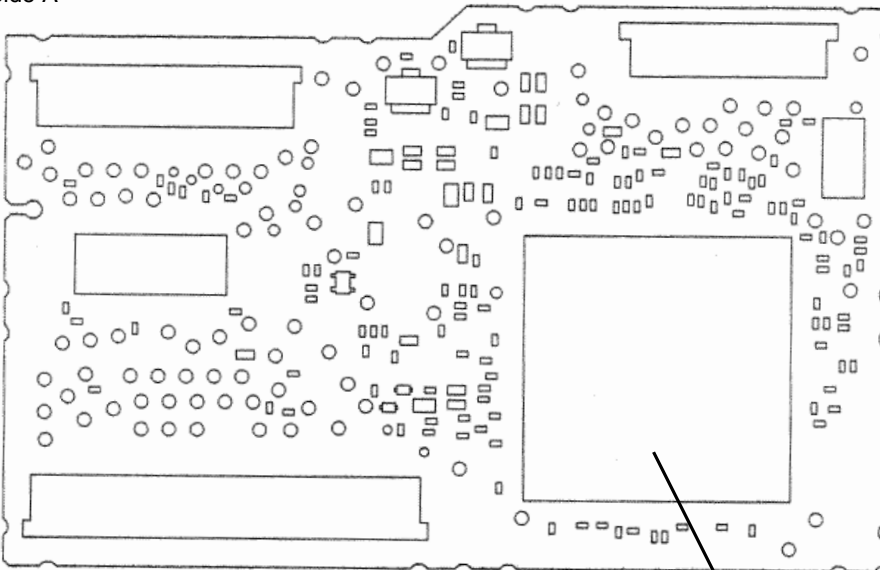
F

Side B



Check point 1 (IC1480)

Side A



Check point 2 (IC1501)

Fig 6.2: SDRAM I/F check point

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

A

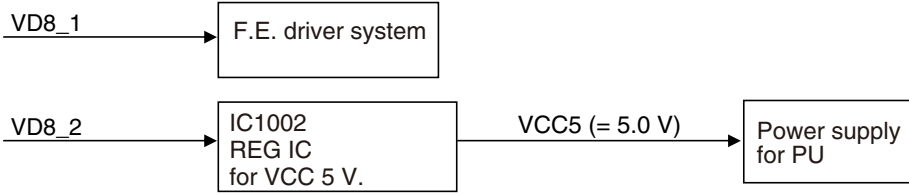


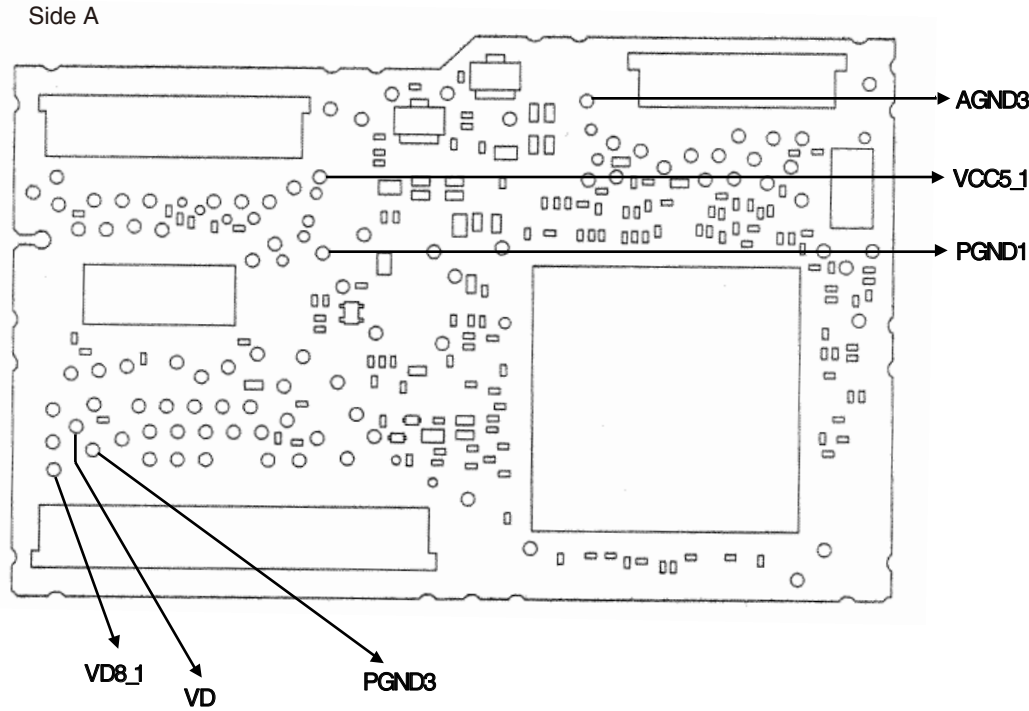
Fig 7.1: Power supply configuration

<Check> Check the voltage at the “VD8_1, VD and VCC5_1” test point while the power is on.
 Use the “PGND3 and AGND1” test point at the reference.

B

NO.	Check point	Module No.	Specification value	Unit
1	VD8_1 - PGND3	ALL	8.0 ± 0.4	V
2	VD - PGND3	ALL	8.0 ± 0.4	V
3	VCC5_1- AGND1	ALL	5.0 ± 0.1	V

C



D

Fig 7.2: VD8, VCC5 voltage check points

E

F

Check 8: Is AVCC5 voltage OK?

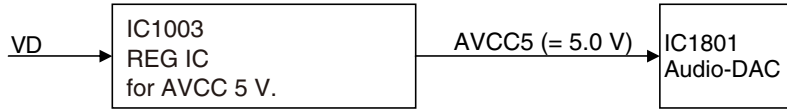


Fig 8.1: Power supply configuration

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

NO.	Check point	Module No.	Specification value	Unit
1	VD - PGND_3	ALL	8.0 ± 0.4	V
2	AVCC5 - GND AU1	ALL	5.0 ± 0.1	V

Side A

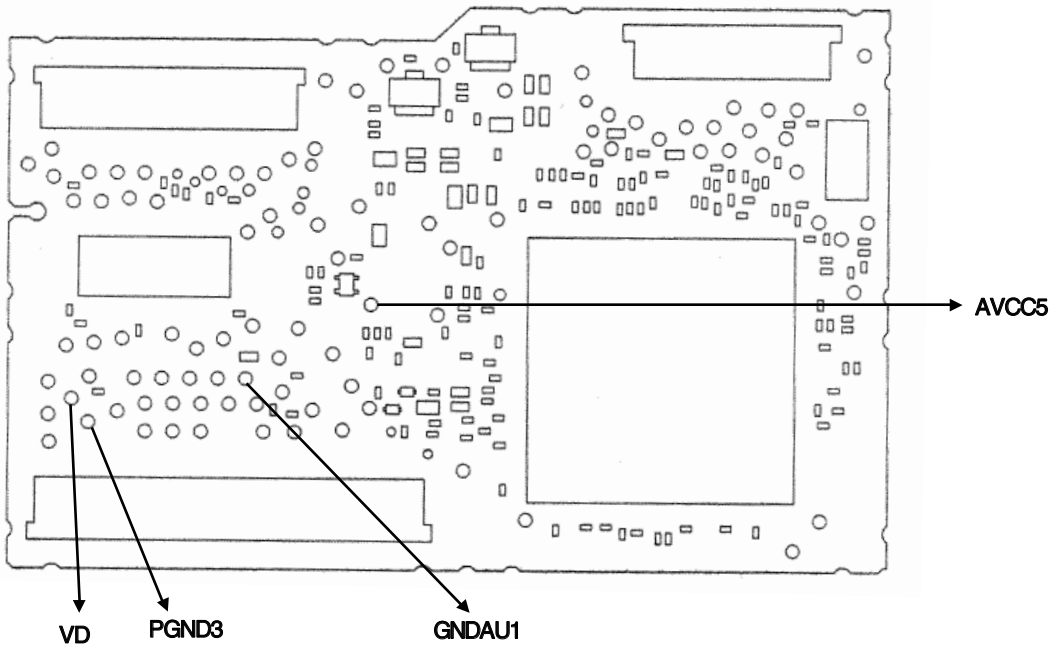


Fig 8.2: VD8, AVCC5 voltage check points

Check 9: Is DACCLK normal?

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

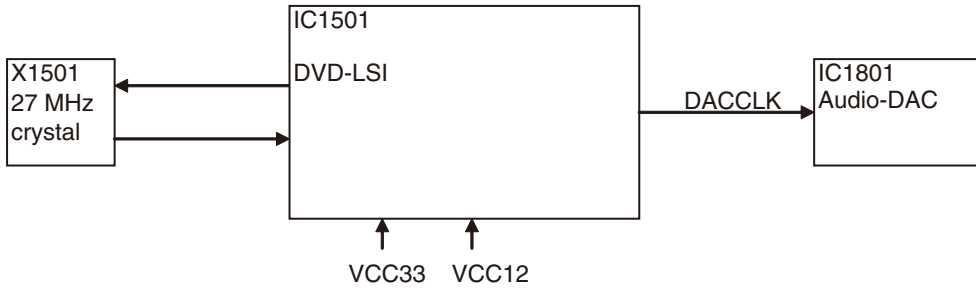


Fig 9.1: Clock configuration

<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~VCC33 V	DGND~0.8 V	36.864 0 MHz ± 300 ppm
2	DACCK	CD	2.0 V~VCC33 V	DGND~0.8 V	33.868 8 MHz ± 300 ppm

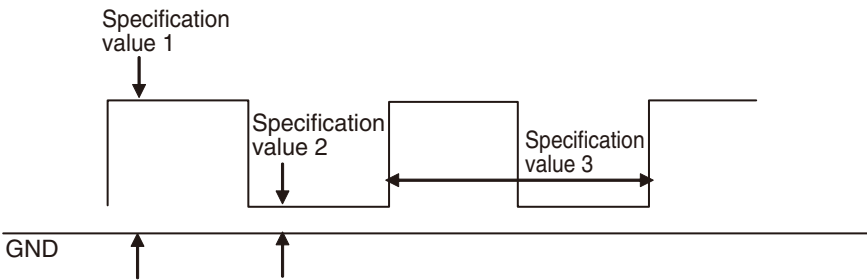
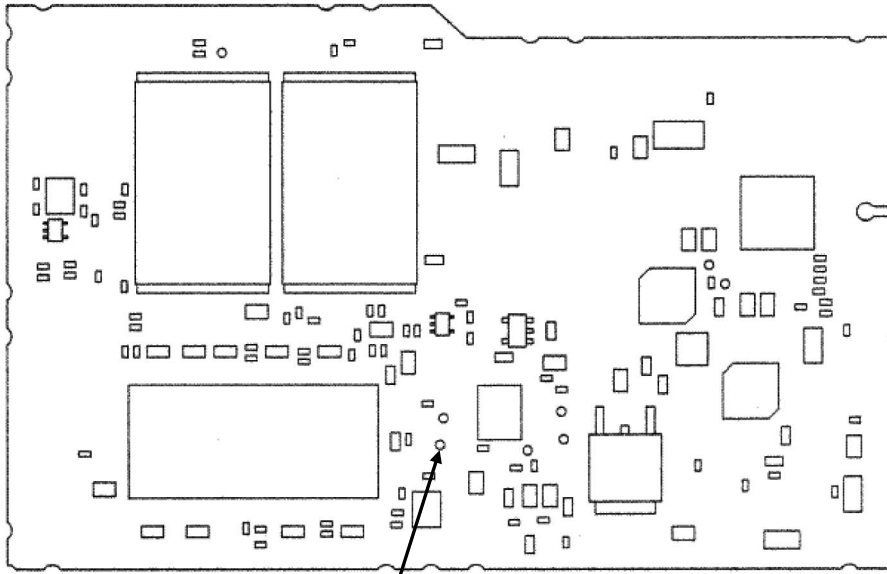


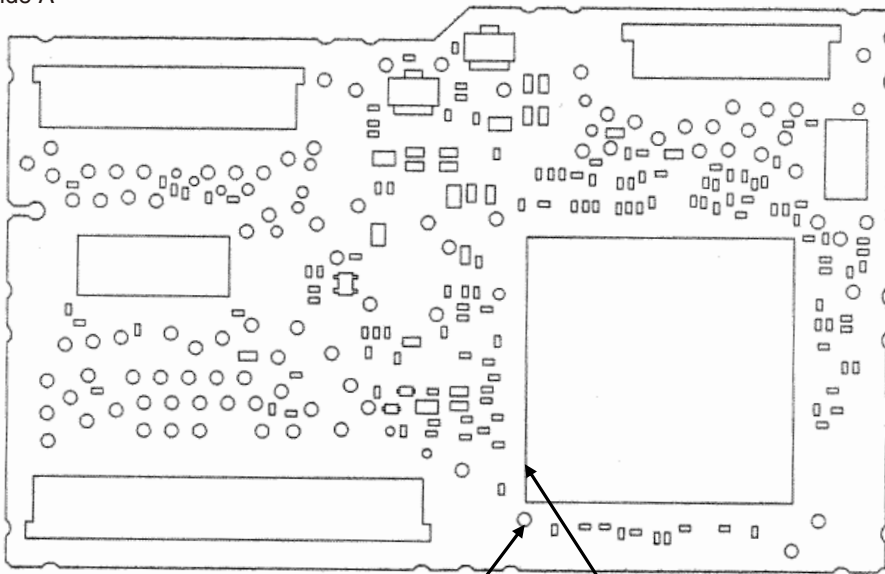
Fig 9.2: Clock specification value

Side B



Check point 1 (DACCK stylus)

Side A



Check point 2 (IC1501 148 pin)

DGND2

Fig 9.3: 27 MHz, 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 (CN1901). 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).

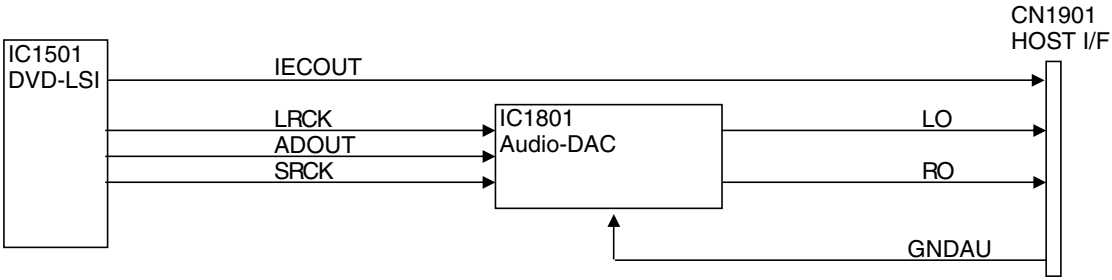


Fig 10.1: Audio circuit

<Check method> Playback DVD-REF-A1 TITLE 2 CHAPTER 1 (48 k/16 bit 1 kHz 0 dB), and check with DGND 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	ADOUT3	VCC33 V-0.6 V or higher	0.4 V or lower	Waveform 1
2	SRCK	VCC33 V-0.6 V or higher	0.4 V or lower	Waveform 2
3	LRCK	VCC33 V-0.6 V or higher	0.4 V or lower	Waveform 3

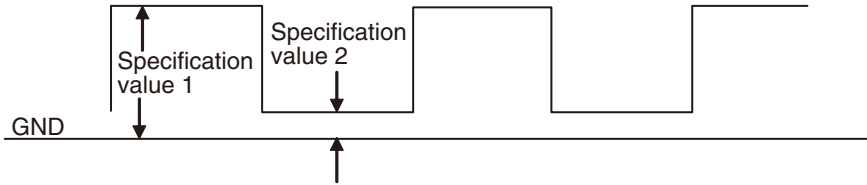
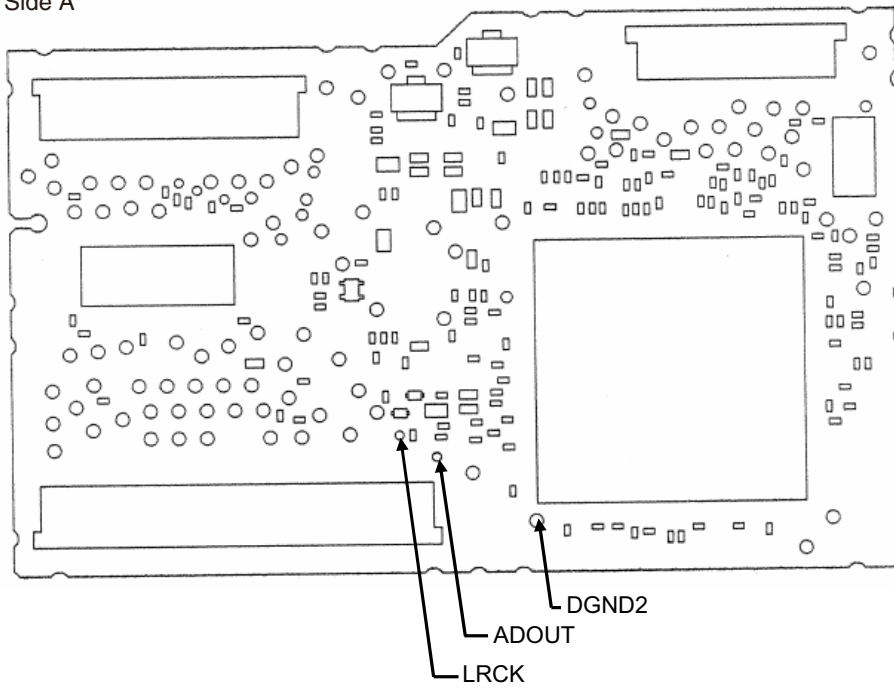


Fig 10.2: Serial 3 lines specification value

Side A



Side B

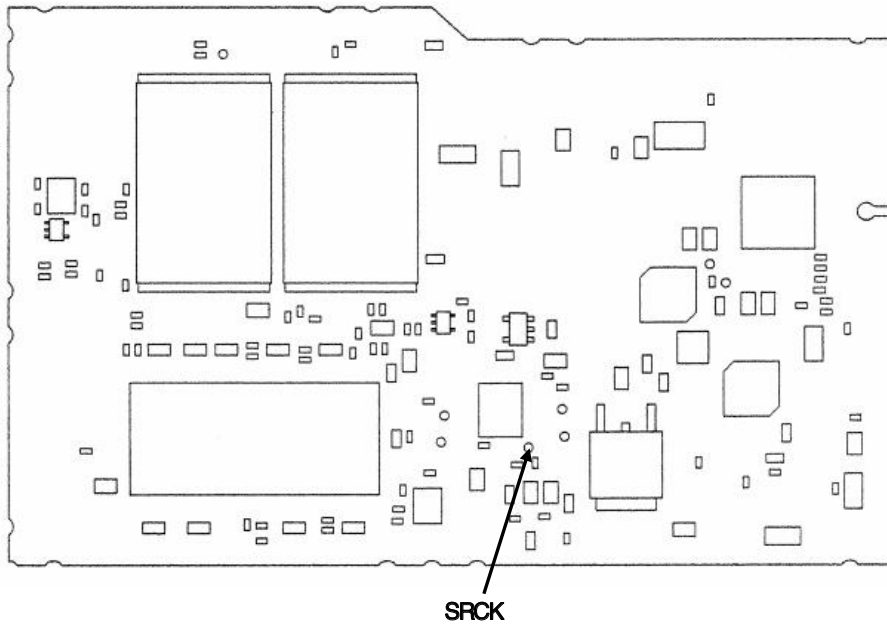
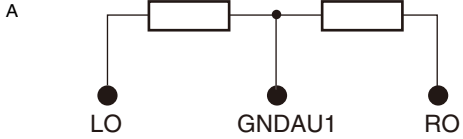


Fig 10.3: Serial 3 lines check points

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	1 400 ± 150 mV	Waveform 4
5	RO	1 400 ± 150 mV	Waveform 4

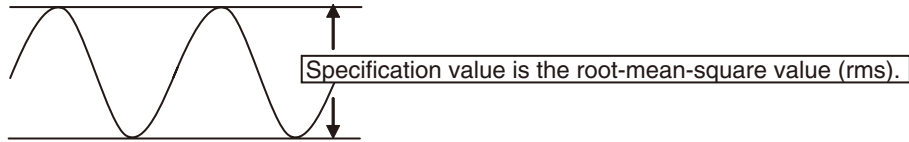


Fig 10.4: Analog audio out (LO, RO) specification value.

Side A

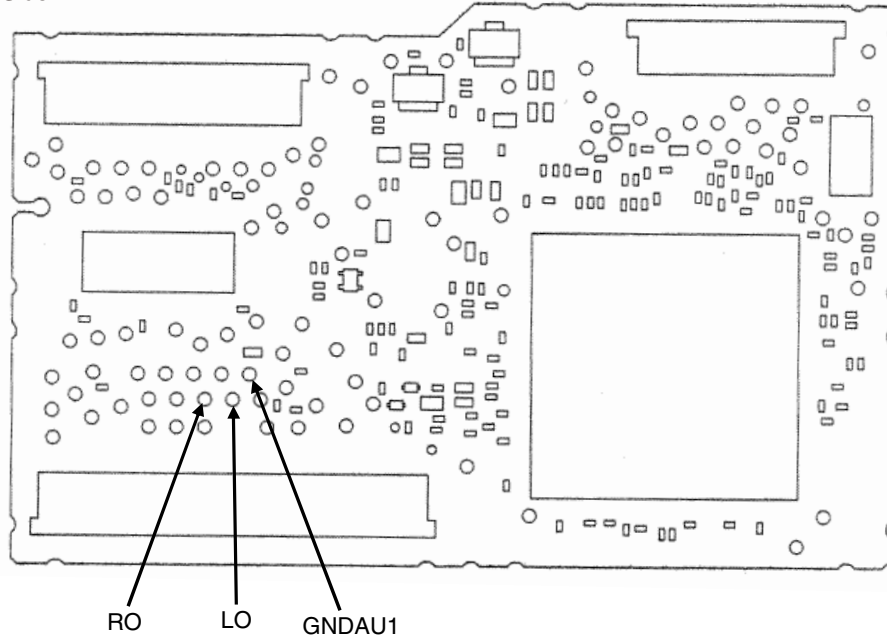


Fig 10.5: Analog audio out check point

Check with DGND being the reference.

NO.	Check point 1 (stylus)	Specification value 1	Specification value 2	Reference waveform
6	IEC	VCC33 V-0.6 V or higher	0.4 V or lower	Waveform 5

Side A

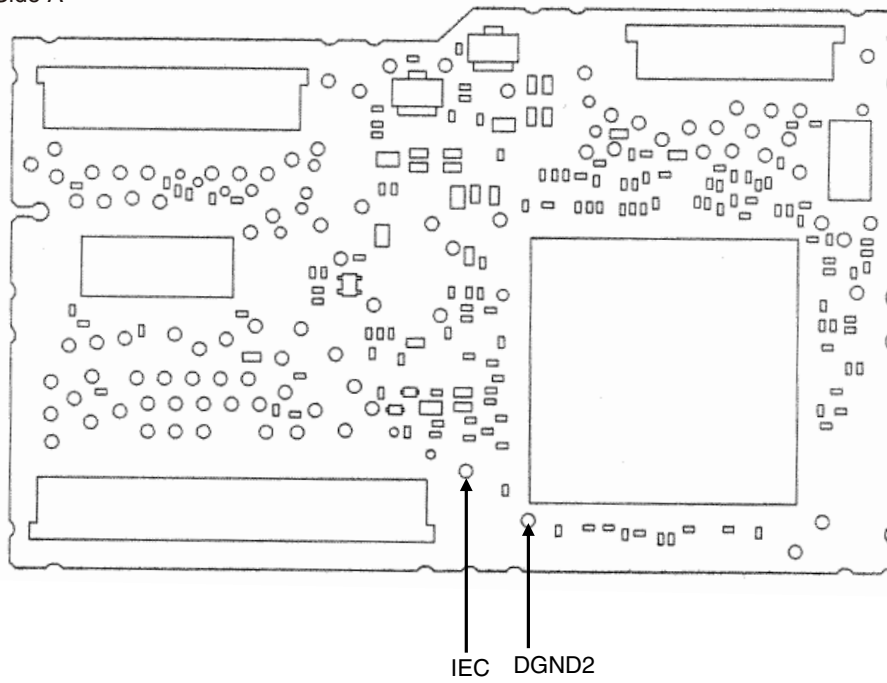


Fig 10.6: Digital audio signal (IECOUT) check point

A

B

C

D

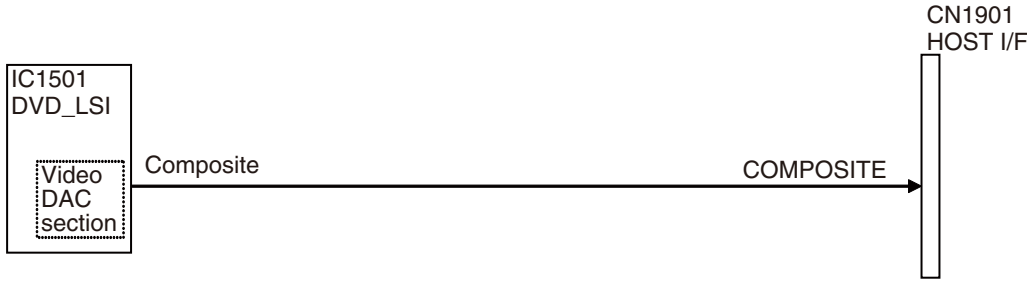
E

F

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 (CN1901) via a buffer circuit.

A



B

Fig 11.1: Video circuit

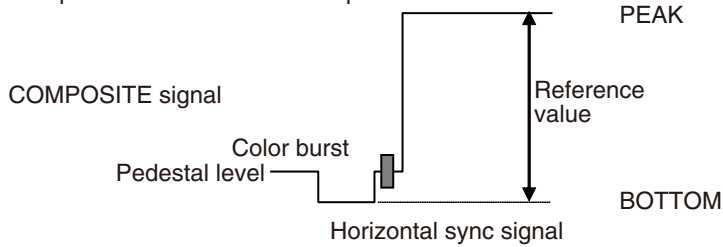
<Checking method> Playback DVD-REF-A1 TITLE2 CHAPTER5 (WHITE 100%), and monitor COMPOSITE signal with an oscilloscope with GNDV1 (stylus) being the reference. Set the trigger mode to "TV trigger" and the trigger line to "150 line".

Check point 1 (stylus)

NO.		Specification value	Reference waveform
1	COMPOSITE	1 000 mVpp ± 5 %	Waveform 6

C

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.



D

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

E

F

Side A

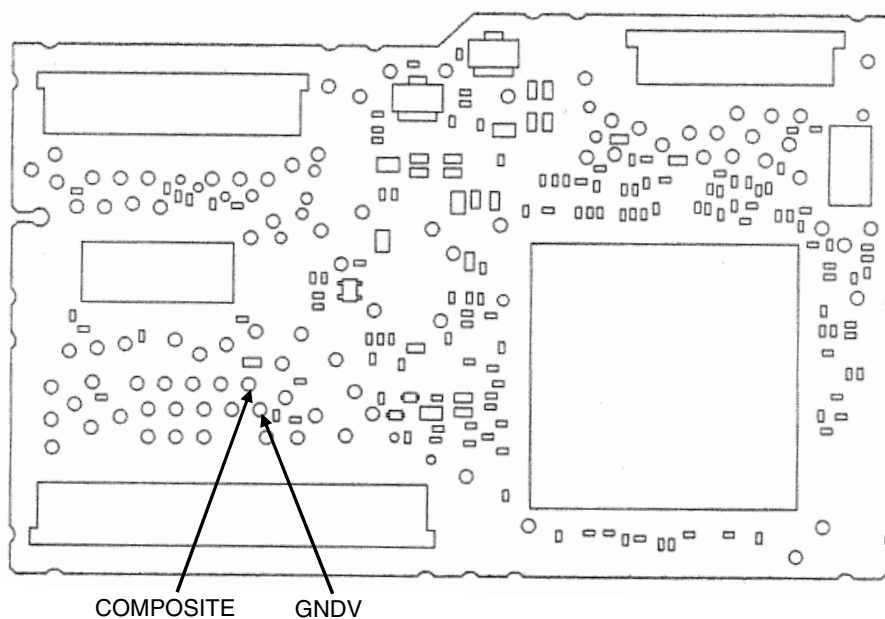


Fig 11.3: VIDEO signal check point

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 energizing time.

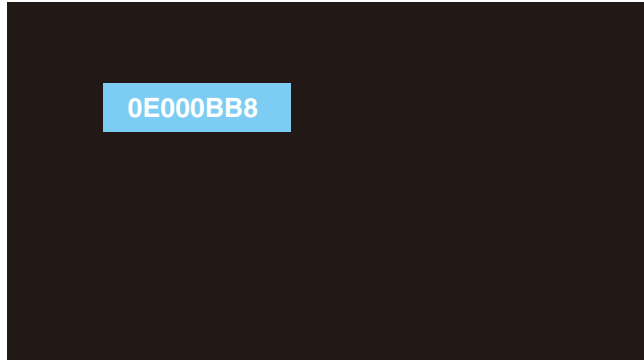
1.Let the LD energizing time displayed.

(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> Each clock is created inside the IC1501 using the 48 MHz master crystal oscillator (X1501).

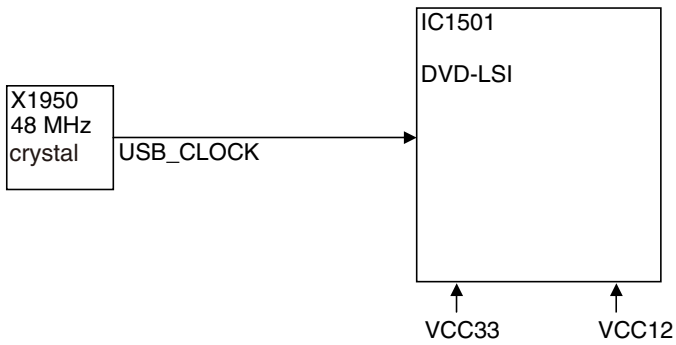


Fig 13.1: Clock configuration

<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 ± 50 ppm	ppm

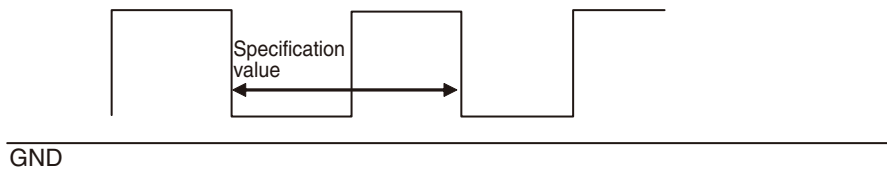
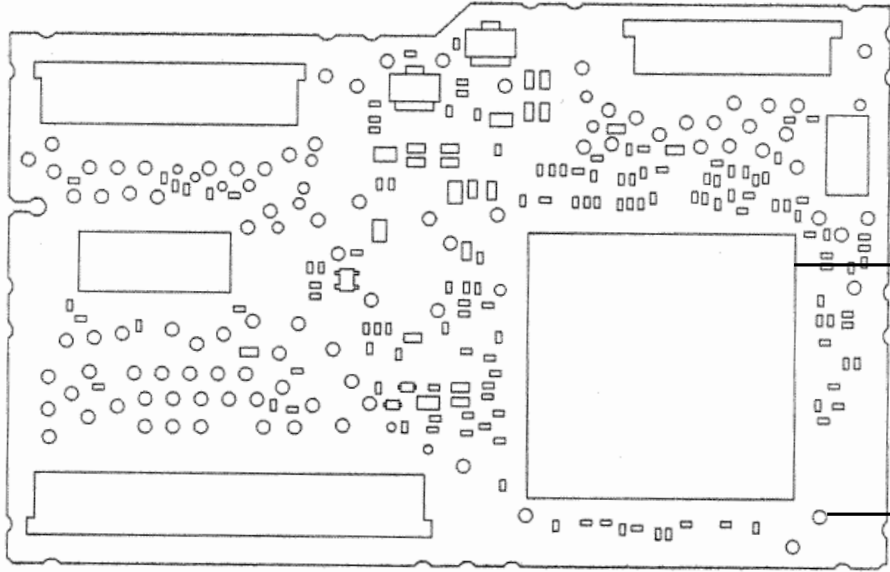


Fig 13.2: Clock specification value

Side A

A

B



IC1501 50pin

DGND1

Fig 13.3: 48 MHz check point

C

D

E

F

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-.

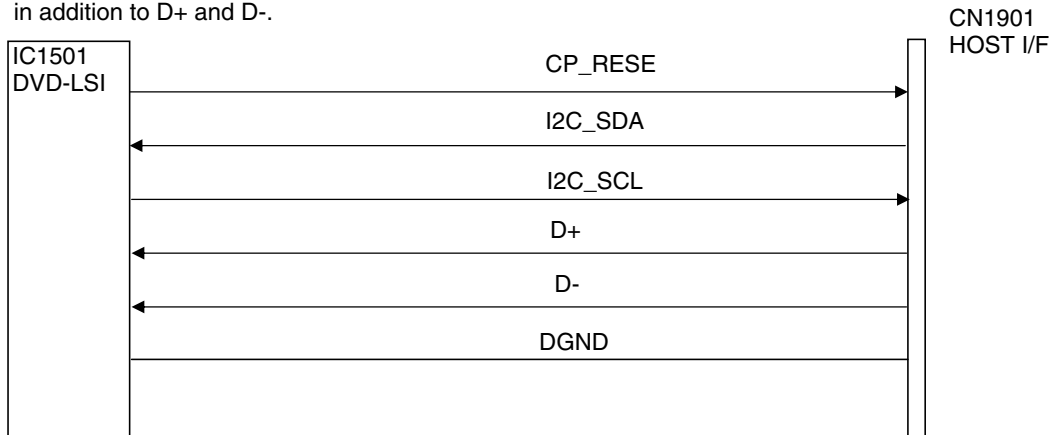


Fig. 14-1: USB Circuit

<Check Method>

1. USB Memory: Play a song from USB memory and check D+ and D- with the DGND standards.

2. iPod: Connect iPod and check CP_RESET, SDA and SCL with the DGND standards until the pioneer log appears.

Play a song from iPod and check D+/D- with the DGND 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*0.7or more	
2	SDATA	VCC33*0.7or more	VCC33*0.2 or less
3	SCLOCK	VCC33*0.7or more	VCC33*0.2 or less
4	D+	VCC33*0.7or more	VCC33*0.3 or less
5	D-	VCC33*0.7or more	VCC33*0.3 or less

*Until the pioneer log appears after connecting the iPod

*Until the pioneer log appears after connecting the iPod

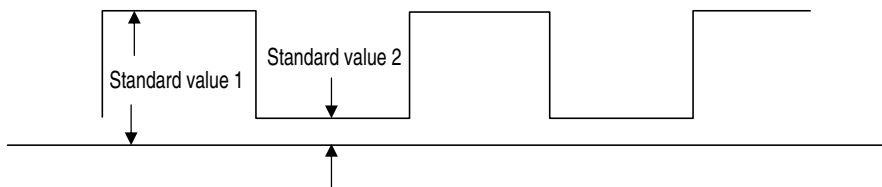


Fig. 14.2: USB Circuit Communication Wave

Side A

A

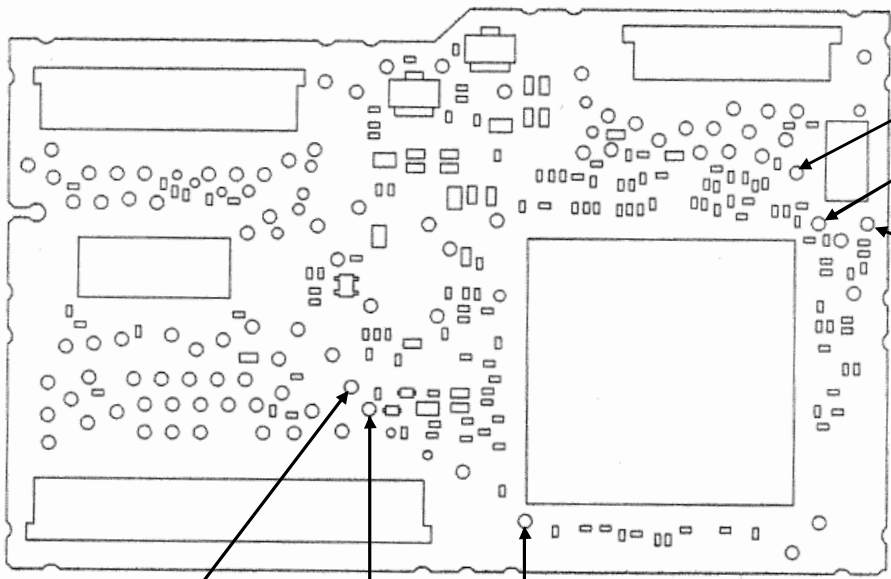
B

C

D

E

F



SDATA

CP_RESET

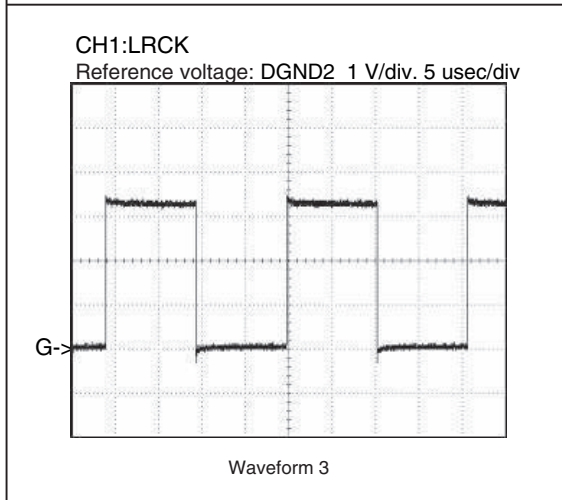
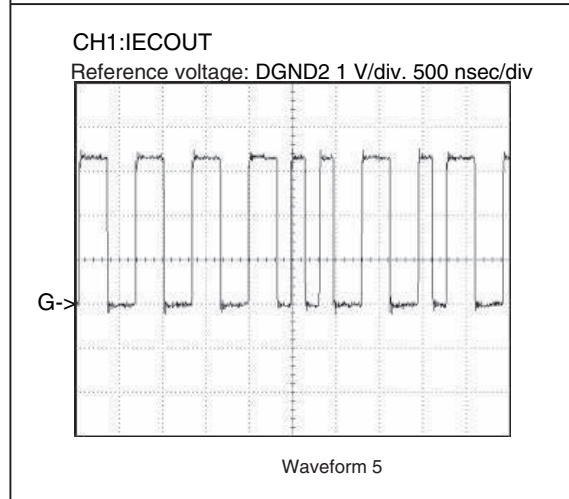
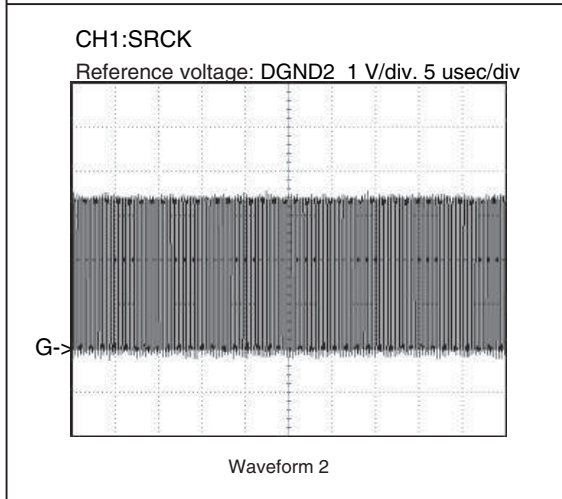
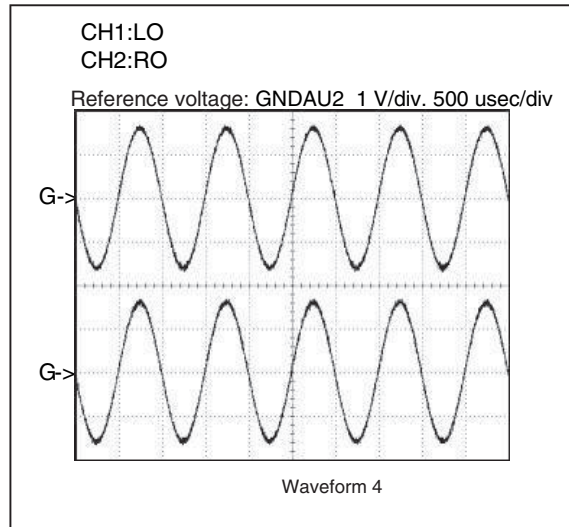
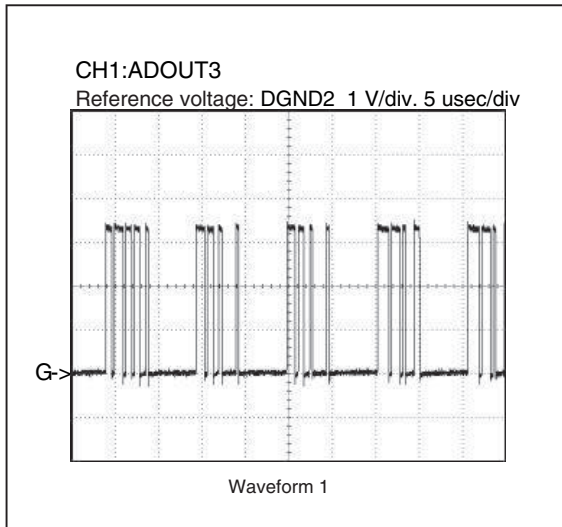
SCLOCK

D-

D+

DGND2

AUDIO



A

B

C

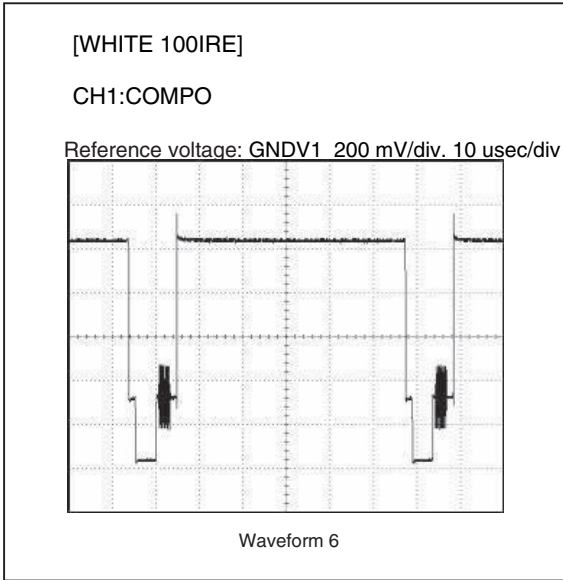
D

E

F

VIDEO

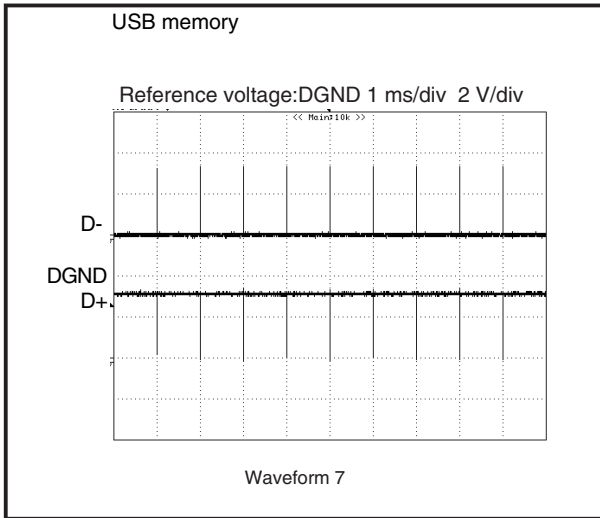
A



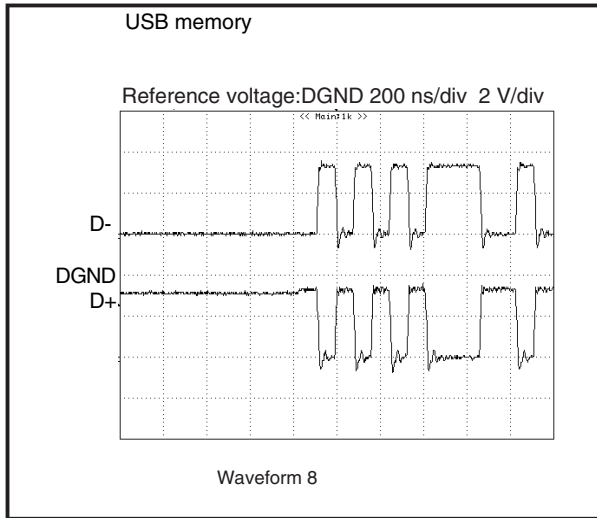
B

USB memory

C



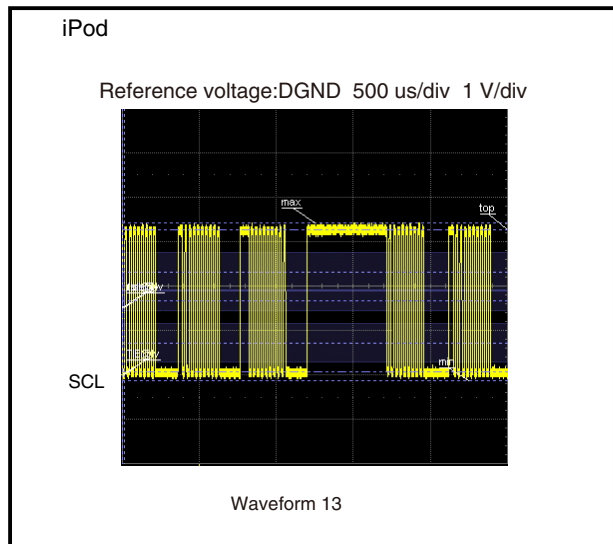
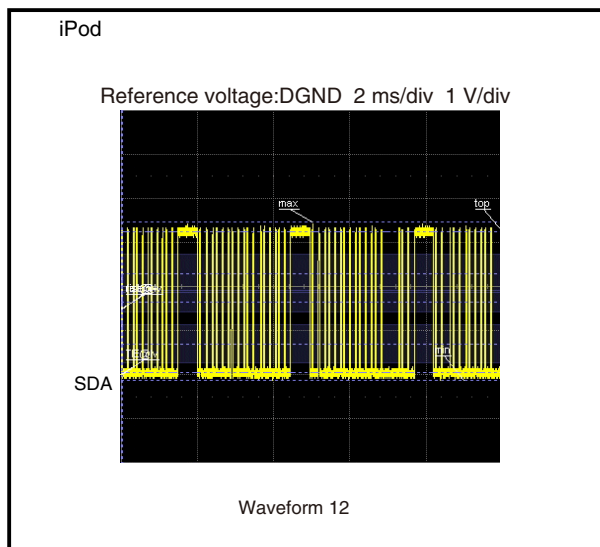
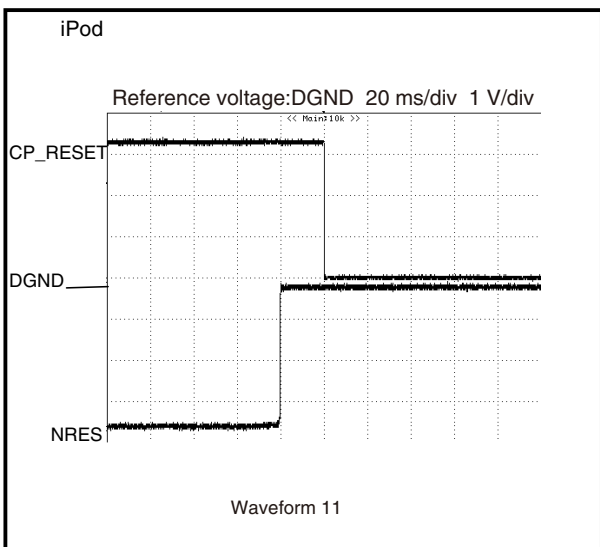
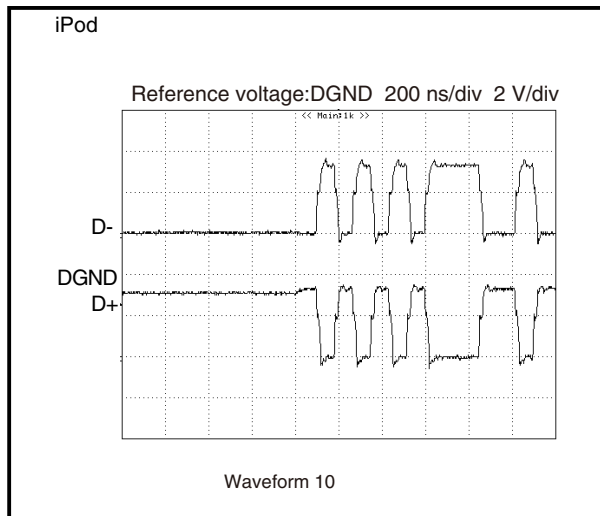
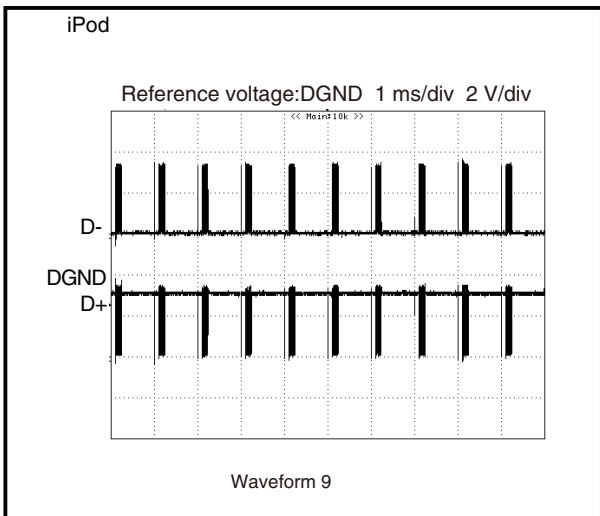
D



E

F

iPod



A

B

C

D

E

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	Play Key
Media Error	NON-PLAYABLE 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	-	-
	UNPLAYABLE FILE	00h	USB device of format alone that cannot be reproduced	-	X	-	X	X	-	-
Open	(No display)	10h	Door open error	X	-	-	*	*	*	*
Read Error	ERROR-02-99	20h	Transfer start error	X	-	-	X	X	X	X
Focus Error(Focus Error in mechanism set up)	ERROR-02-90	21h	Focus error	X	-	-	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	X	X	X
Address not found(Invalid Track)	ERROR-02-80	23h	Address not found.	X	-	-	X	X	X	X
Spindle Lock	ERROR-02-91	24h	Spindle lock NG (the disc cannot rotate)	X	-	-	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	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	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	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	X
Disc Data Error	ERROR-02-9D	2Dh	Disc Data NG	X	-	-	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 ejection)	(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	X	X	-	X	-
Communication fault attesting iPod	ERROR-02-60	60h	Communication fault attesting iPod	X	-	X	-	-	X	-
iPod authentication data is abnormal	ERROR-02-61	61h	iPod authentication data is abnormal	X	-	X	-	-	X	-
iPod attestation retrying failure	ERROR-02-62	62h	iPod attestation retrying failure	X	-	X	-	-	X	-
iPod attestation time out	ERROR-02-63	63h	iPod attestation time out	X	-	X	-	-	X	-
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	-
Error setting iPod	ERROR-02-65	65h	Error setting iPod	-	-	X	-	-	X	-
Demand timeout when initial is communicated	ERROR-02-66	66h	Demand timeout when initial is communicated	-	-	X	-	-	X	-
Protocol version non-correspondence	ERROR-02-67	67h	Protocol version non-correspondence	-	-	X	-	-	X	-
Timeout when protocol version is judged	ERROR-02-68	68h	Timeout when protocol version is judged	-	-	X	-	-	X	-
No songs error	(No display)	69h	No songs error	-	-	X	-	-	X	-
iPod control forwarding/ Intarapta forwarding error	ERROR-02-6A	6Ah	iPod control forwarding/ Intarapta forwarding error	-	-	X	-	-	X	-
Demand timeout iPod's reproducing	ERROR-02-6B	6Bh	Demand timeout iPod's reproducing	-	-	X	-	-	X	-
Remote switch error	ERROR-02-6C	6Ch	Remote switch error	-	-	X	-	-	X	-
Remote switch demand timeout	ERROR-02-6D	6Dh	Remote switch demand timeout	-	-	X	-	-	X	-
DRM Error	PROTECTED DISC	70h	DRM error (All music cannot be played back due to DRM.)	X	-	-	-	-	X	-
	NO ACCESSIBLE DATA AVAILABL	70h	DRM error (All music cannot be played back due to DRM.)	-	X	-	-	-	-	-
Region code Error NG	DIFFERENT REGION DISC	90h	Region code NG (Unable to be played back due to incorrect mechanism region.)	X	-	-	-	-	X	-
CPRM*7 Key Error *8	NON-PLAYABLE DISC	93h	Key Error for playback	X	-	-	-	-	X	-
REQUEST error	ERROR-02-A0	A0h	REQUEST error	X	-	-	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	X
Adjustment of L0 is NG.	ERROR-02-A2	A2h	L0 adjustment is NG.	X	-	-	X	X	X	X
Adjustment of L1 is NG.	ERROR-02-A3	A3h	L1 adjustment is NG	X	-	-	X	X	X	X
LD system NG	ERROR-02-A4	A4h	LD system NG	X	-	-	X	X	X	X
Gain adjustment system NG.	ERROR-02-A5	A5h	Gain adjustment system NG.	X	-	-	X	X	X	X
Gain determining system NG.	ERROR-02-A6	A6h	Gain determining system NG.	X	-	-	X	X	X	X
Servo initial setting related items NG.	ERROR-02-A7	A7h	Servo initial setting related items NG.	X	-	-	X	X	X	X
Disc is not clamped yet.	ERROR-02-A8	A8h	Disc is not clamped yet.	X	-	-	X	X	X	X
Tracking system NG.	ERROR-02-A9	A9h	Tracking system NG	X	-	-	X	X	X	X
Media setting system NG.	ERROR-02-AA	AAh	Media setting system NG	X	-	-	X	X	X	X
Focus Error	ERROR-02-AB	ABh	JUMP over layers NG	X	-	-	X	X	X	X
Error of PLAY BAC K Mode Status	ERROR-02-B0	B0h	Navigation command error	X	-	-	X	X	X	X
Error of PLAY BAC K Mode Status	ERROR-02-B1	B1h	Retry over	X	-	-	X	X	X	X
Audio Property Timeout Error *9	ERROR-02-C0	C0h	Audio property timeout error	X	-	-	X	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	-
Audio class FS setting failure	ERROR-02-D9	D9h	Audio class FS setting failure	-	-	X	-	-	X	-
Undefined Error	ERROR-FF-FF	FFh	Undefined error	X	-	-	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.

*3 CPPM(Content Protection for Prerecorded Media) : A copyright protection technique used in DVD-A. The protection is realized by using the keys recorded on the media and the device key held by the player.

*4 DVD-A compatible model only.

When an error has occurred, only the audio output will be muted but playback operation will continue. Furthermore, acceptance of the user operation will be the same as usual.

*5 AWM (Audio WaterMark): Electronic watermark. Information on the copyright owner or CCI (copy control information) are recorded so that illegally copied discs can be identified.

*6 Notice as an error status will not be given

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

A

B

C

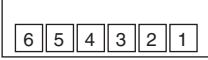
D

E

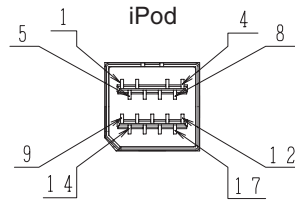
F

5.5 CONNECTOR FUNCTION DESCRIPTION

RDS-TMC TUNER

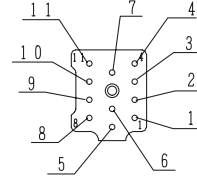


- 1 : SWBUP
- 2 : RDSSNS
- 3 : TMC_MSN_ON
- 4 : CTOVICS
- 5 : VICSTOC
- 6 : GND

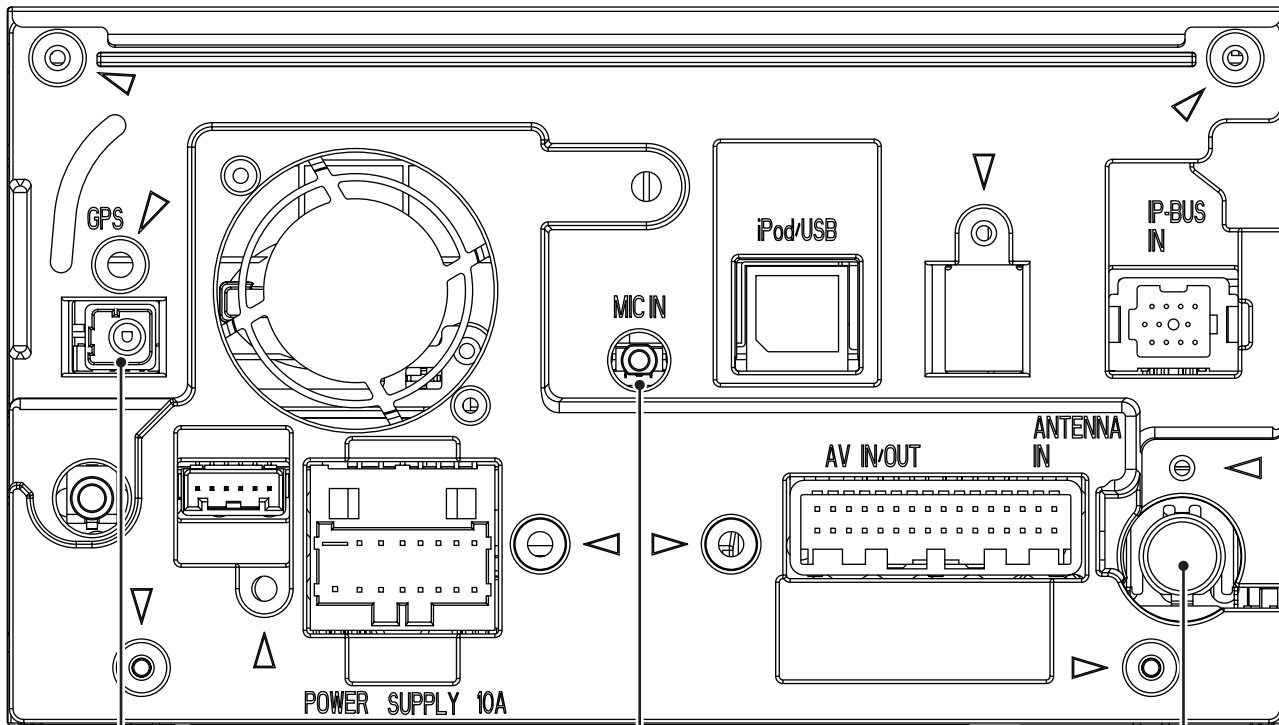


- 1 : USB-
- 2 : USB+
- 3 : ACCID
- 4 : USB5V
- 5 : USBGND
- 6 : NC
- 7 : LOUT
- 8 : NC
- 9 : TXiPod
- 10 : ACCDET
- 11 : A_RETURN
- 12 : V_RETURN
- 13 : VOUT
- 14 : RXiPod
- 15 : iACCPW
- 16 : ROUT
- 17 : GNDD

IP-BUS



- 1. IPBUS+
- 2. IPBUSG
- 3. IPLG
- 4. NC
- 5. IPBUS-
- 6. IPRG
- 7. IPL+
- 8. ASENBO
- 9. IPR+
- 10. IPR-
- 11. IPL-



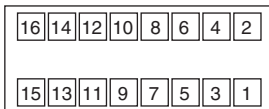
GPS ANTENNA

MIC INPUT

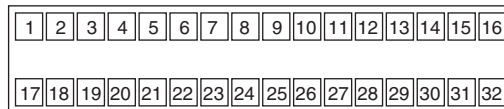
AV CONNECTOR

ANTENNA

POWER SUPPLY



- 1 : FR+
- 2 : RR+
- 3 : FR-
- 4 : RR-
- 5 : FL+
- 6 : RL+
- 7 : FL-
- 8 : RL-
- 9 : PKB
- 10 : PULSE
- 11 : REV
- 12 : ILM
- 13 : AANT
- 14 : ACC
- 15 : GND
- 16 : BUP



- 1 : TELMUTE
- 2 : KMODE
- 3 : PRR
- 4 : PRL
- 5 : SWL
- 6 : SWR
- 7 : PFR
- 8 : VTR2R
- 9 : VTR2L
- 10 : VTRIN2V
- 11 : RROUT2
- 12 : RLOUT2
- 13 : BCV
- 14 : VTRIN3V
- 15 : RVOU2
- 16 : BREMOTE
- 17 : EXTOC
- 18 : CTOEX
- 19 : (HYOKA)
- 20 : HRGND
- 21 : SWG
- 22 : HFGND
- 23 : PFL
- 24 : VTR2RG
- 25 : VTR2LG
- 26 : VTRIN2VG
- 27 : RROUT2G
- 28 : RLOUT2G
- 29 : BCVG
- 30 : VTR3VG
- 31 : RVOU2G
- 32 : BGND

6. SERVICE MODE

6.1 TEST MODE

1. How to Select Test Mode Menu

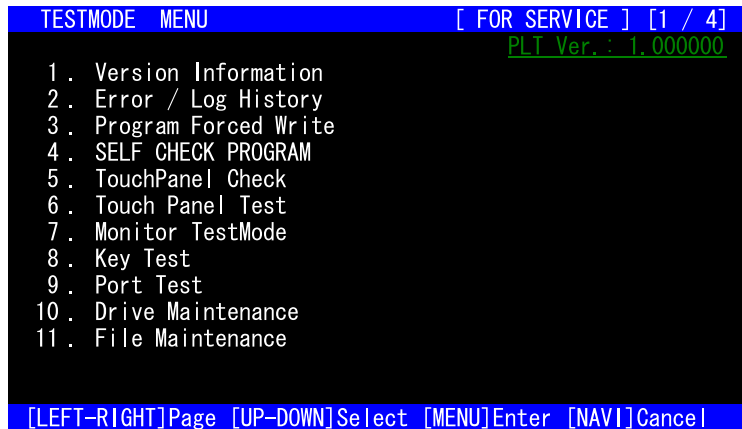
Key operations used at the test mode are the following six keys;

Key Operation	Key Allocation
Cursor Up	VOL UP
Cursor Down	VOL DOWN
Page Change (Previous)	LEFT
Page Change (Next)	RIGHT
Item Selection (Determination)	MODE
Cancel /Return to previous page	HOME

2. How to Start-up Test Mode

- ① Start-up by operation of the product.
 1. Enter the following password while +B, ACC are ON (Normal application start-up status).
 2. When the password is correct, restart begins and test mode menu is displayed.
 1. Press [HOME] key.
 2. Press keys in the order, [RIGHT] -> [LEFT] -> [RIGHT] -> [LEFT] -> [RIGHT] -> [LEFT], while pressing [HOME] key.
 3. Release [HOME] key.
- ② Start-up by SD card.
 1. Download GGS1080 from the Service Site.
 2. Decompress the file.
 3. Copy the decompressed file to the SD card root.
 4. Insert the SD card to the product and turn ACC on.

3. Test Mode Menu

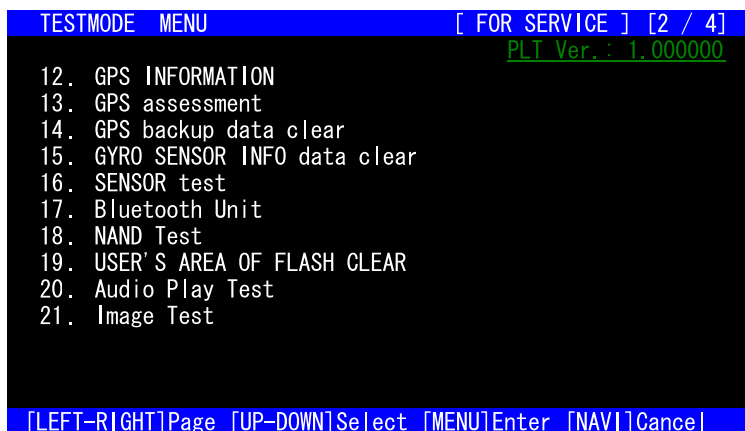


B

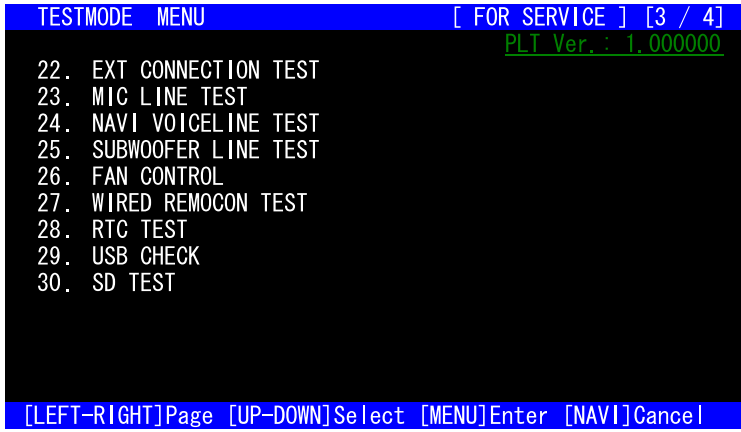
	Name of Test Item	Overview of Test
1	Version Information	Display version information such as Navigation Software, Navigation Destination, Microcomputer Software, etc.
2	Error / Log History	Perform Error / Log View, File Copy and Clearing.
3	Program Forced Write	Writing of Navigation Program / Platform/Boot Loader / IPL / System Microcomputer / BT Firmware. Writing of Start-up Screen Data / APL Program. Writing / Reading Fixed Data. Writing / Reading / Clearing of BSP Backup Data.
4	SELF CHECK PROGRAM	Display connection status of System Microcomputer / Mechanical Microcomputer / BT Module / GPS_RF / iPod Authentication IC / One-Segment_RF.
5	TouchPanel Check	Coordinate Test of touch panel.
6	Touch Panel Test	Perform Line Touch Panel and Calibration Tests.
7	Monitor TestMode	Perform Flicker Adjustment, Initialization of E2PROM. Perform Service Test, E2PROM Test, Backlight Test and Illumination Test.
8	Key Test	Test of Hard Key.
9	Port Test	Status display of Input Port. Status display/changeover of Output Port.
10	Drive Maintenance	Display drive information, disc scanning (verification of volume).
11	File Maintenance	File operation and file deletion. Dumping display of file contents.

C

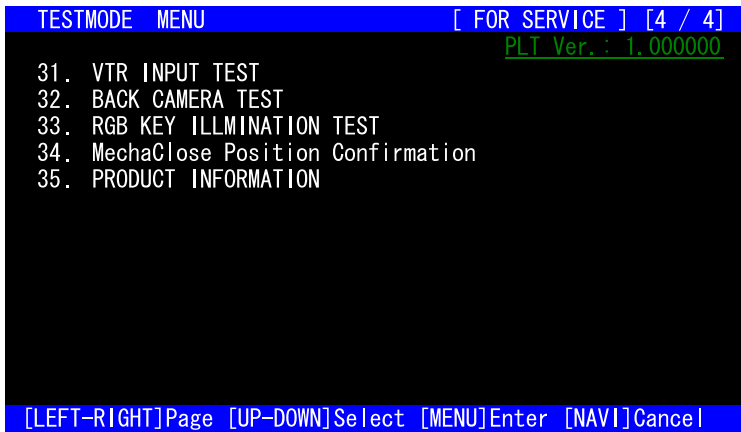
D



	Name of Test Item	Overview of Test
12	GPS INFORMATION	Display GPS positioning data, satellite information acquired and error information.
13	GPS assessment	Version display of GPS driver / sensor.
14	GPS backup data clear	Reset GPS driver and perform clearing of backup data.
15	GYRO SENSOR INFO data clear	Clear the gyro-sensor learned value.
16	SENSOR test	Display G-sensor, gyro value, power supply voltage, temperature and installation status.
17	Bluetooth Unit	Perform radio wave authentication test.
18	NAND Test	Data readout of NAND FLASH. Writing data or file into NAND FLASH.
19	USER'S AREA OF FLASH CLEAR	Execution of User Area clearing.
20	Audio Play Test	Guiding Audio Line confirmation by the replay of audio file.
21	Image Test	Display various test images.



	Name of Test Item	Overview of Test
22	EXT CONNECTION TEST	Display G Sensor, gyro value, power supply voltage, temperature and variation, CAM_ON terminal and installation status.
23	MIC LINE TEST	Confirmation of microphone input line for audio recognition.
24	NAVI VOICELINE TEST	Confirmation of audio output line for SD / USB Audio.
25	SUBWOOFER LINE TEST	Confirmation of output for subwoofer pre-out.
26	FAN CONTROL	Execution of ON/OFF for Fan Revolution, controlling revolution speed.
27	WIRED REMOCON TEST	Receiving test of wired remote control key. Receiving test of manufacture code.
28	RTC TEST	Setting of time
29	USB CHECK	Confirm the normal operation of USB device by connecting USB device to the product.
30	SD TEST	Confirmation of normal operation of SD card.



	Name of Test Item	Overview of Test
31	VTR INPUT TEST	Display images from iPod / AUX, VTR, external terrestrial digital television.
32	BACK CAMERA TEST	Display image of back camera on navigation screen.
33	RGB KEY ILLMINATION TEST	Check wire connecting status of 3 color signals for RGB key illumination.
34	MechaClose Position Confirmation	Confirming flap close and displaying RPS value.
35	PRODUCT INFORMATION	Display product information.

1. Version Information

Obtain version information for assigned software and display the information on screen with list display.

1. Program Version [The first page]

Key Operation	Key Allocation
Page Changeover (Prev. page)	LEFT
Page Changeover (Next page)	RIGHT
Cancel / Return to prev. page.	HOME

Version Information		[Program Version] [1 / 3]
PLATFORM	[	1.000000]
IPL	[	0.020900]
BOOTLOADER	[	0.050600]
MECHA VERSION	[	01.01.04.00]
APL PROGRAM	[	0.500000]
APL PROGRAM	[	0.500001]
SYSTEM uCOM	[	7.03]
SYSTEM uCOM BOOT PROGRAM	[	7.03]

[LEFT-RIGHT]:Page [NAVI]:Return

Item	Item Contents	Information Display
PLATFORM	OS part version of system software	[* .*****]: Value of Version [NO_SET]: No information
IPL	Version of product startup program	[* .*****]: Value of Version [NO_SET]: No information
BOOTLOADER	Version of boot loader	[* .*****]: Value of Version [NO_SET]: No information
MECHA VERSION	Version of DVD mechanism	[* .*****]: Value of Version [NO_SET]: No information
APL PROGRAM	Version of navigation application	[* .*****]: Value of Version [NO_SET]: No information
CPU CORE	Version of CPU core	[* .*****]: Value of Version
SYSTEM uCOM	Version of system microcomputer	[* .*****]: Value of Version [NO_SET]: No information
SYSTEM uCOM BOOT PROGRAM	Version of startup program for system microcomputer	[* .*****]: Value of Version [NO_SET]: No information
NAND CID	Firmware ID of NAND Flash	[* .*****]: ID value [GET_NG]: Acquisition failed

2. Model Information [The second page]

Key Operation	Key Allocation
Page Changeover (Prev. page)	LEFT
Page Changeover (Next page)	RIGHT
Cancel / Return to prev. page.	HOME

VERSION Information [Model Information] [2 / 3]

```

PRODUCT NUMBER      [ AVIC-XXXXXXXX ]
NAVI INFORMATION    [   &XX123   ]
NAND DATA PARTS CODE [  CWW1234-  ]
NAND VERSION        [  PC5-2-c   ]
VOLUME INFORMATION  [     1     ]
REGION CODE         [     6     ]

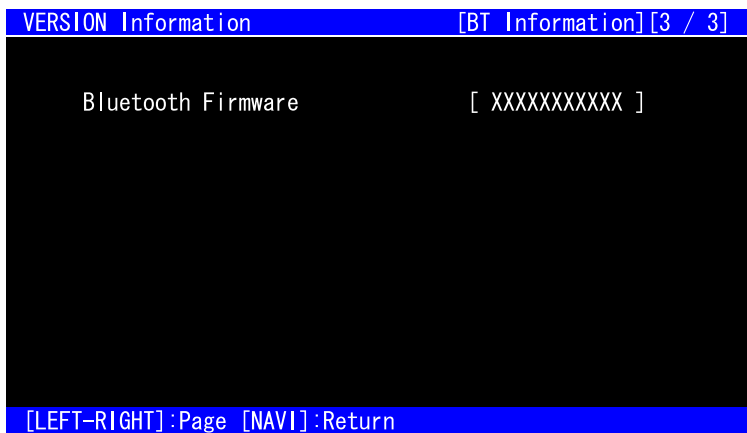
```

[LEFT-RIGHT]:Page [NAVI]:Return

Item	Item Contents	Information Display
PRODUCT NUMBER	Product Model Number	[AVIC-***]: Value of Version [NO_SET]: No information
NAVI INFORMATION	Planning Model Number	[&XX***]: Value of Version [NO_SET]: No information
NAND DATA PARTS CODE	Parts number of Data Set in NAND-FLASH	[CWW****-]: Value of Version [NO_SET]: No information
NAND VERSION	Data Set Version of NAND-FLASH	[PC5-*-*]: Value of Version [NO_SET]: No information
VOLUME INFORMATION	Volume information of NAND-FLASH	[Vol.*]: Value of Version [NO_SET]: No information
REGION CODE	Region Code of DVD	[2]: Europe / Normal Region Code [1]: North America / Normal Region Code [5]: Russia / Normal Region Code [4]: Australia / Normal region Code * Values other than above are abnormal values. [NO_SET]: No information

3. Bluetooth Firmware Information [The third page]

Key Operation	Key Allocation
Page Changeover (Prev. page)	LEFT
Page Changeover (Next page)	RIGHT
Cancel / Return to prev. page.	HOME

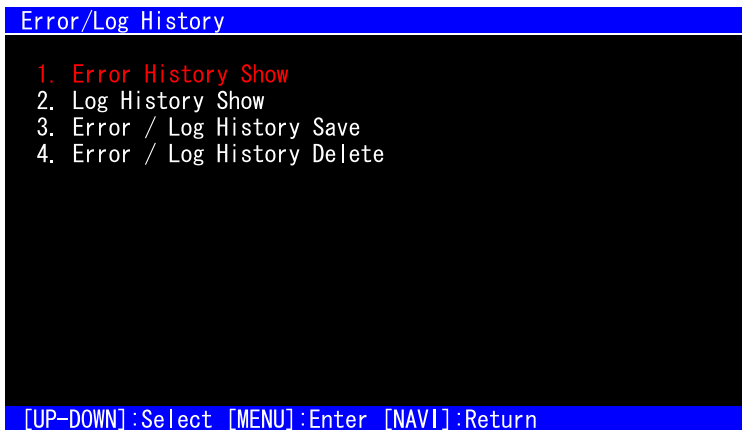


Item	Item Contents	Information Display
Bluetooth Firmware	Bluetooth Firmware Version	[*****]: Value of Version [NO_SET]: No information

2. Error/Log History

Perform displaying each error history, saving the history into storage and clearing the history.

Menu Screen



<<Key Operation>>

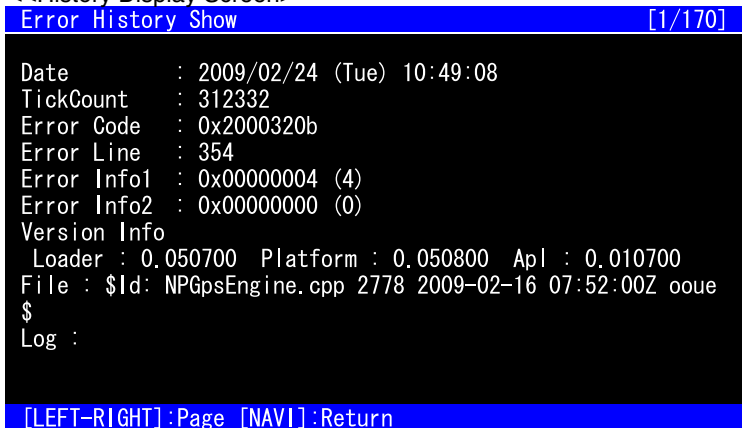
VOL +/- : Item selection
 MODE : Execution of selected item
 HOME : Return to main menu

<<Item>>

1. Error History Show
 Display error history currently saved.
2. Log History Show
 Display execution log history currently saved.
3. Error / Log History Save
 Save histories of error, log and exception files into storage.
4. Error / Log History Delete
 Clearing of error, log and exception histories saved.

1. Error History Show

<<History Display Screen>



Date : Time of error recorded
 TickCount : Value of counter started counts at OS startup. 1 count is corresponding to 1 millisecond.
 Error Code : Error code
 Error Line : Number of lines on source code
 Error Info 1, 2 : Additional Information
 Version Info : Program version
 Versions for boot loader, platform and application are displayed.
 File : Display file name where error happened.
 Log : Log information (The content is displayed only when saved)

2. Log History Show

The execution log is the execution history when specific operation is performed. (Not errors)

<<History Display Screen>>

```
Log History Show [1 /10]
Date       : 2009/02/24 (Tue) 10:49:08
TickCount  : 312332
Log        : uComUpdate Start
[LEFT-RIGHT]:Page [NAVI]:Return
```

Date : Time of error recorded

TickCount : Value of counter started counts at OS startup. 1 count is corresponding to 1 millisecond.

Log : Log information

3. Error / Log History Save

Histories of error, log and exception are saved in storage.

<< Selection Screen >>

```
Error / Log History Save
1. USB-Memory
2. SD-Card
[UP-DOWN]:Select [MENU]:Enter [NAVI]:Return
```

<<Key Operation>>

VOL +/- : Item selection

DISP : Execution of copy

HOME : Return to main menu

The history is saved in the following folder configuration;

```
SD or USB Memory
LOG
├─ 000
│   ├── error.txt  <- Error History
│   ├── log.txt    <- Log History
│   └─ AstLog     <- Exception History Folder
│       ├── DBMSG000.log
│       ├── SYSER000.log
│       ├── EMERG000.log
│       └─ EMERG001.log
│           (Histories may be saved up to EMERG511.log)
```

4. Error / Log History Delete

Histories for error, log and exception are saved.

<<Confirmation Screen>>

Error / Log History Delete

Do you delete it?

[MENU]:Yes [NAVI]:No

3. Program Forced Write

Program Forced Write

1. Navi Program Write
2. Platform Write
3. BootLoader Write
4. System uCom Write
5. Bluetooth firmware Write
6. Opening Data Write

[LEFT-RIGHT]Page [UP-DOWN]Select [MENU]Enter [NAVI]Cancel

<<Item Description>>

- | | |
|-----------------------------|---|
| 1. Navi Program Write | ... Normally the following programs which perform automatic version up are all written; |
| | - Boot loader software |
| | - Platform software |
| | - Font data |
| | - Application software |
| 2. Platform Write | ... Only platform software is written. |
| 3. BootLoader Write | ... Only boot loader software is written. |
| 4. System uCom Write | ... System microcomputer software is written. |
| 5. Bluetooth Firmware Write | ... Firmware of Bluetooth chip is written. |

* Normal writing becomes unable if power is off during the writing. On this occasion, please retry firmware writing.

* "Complete" may not be displayed while the percentage is kept to 100%.

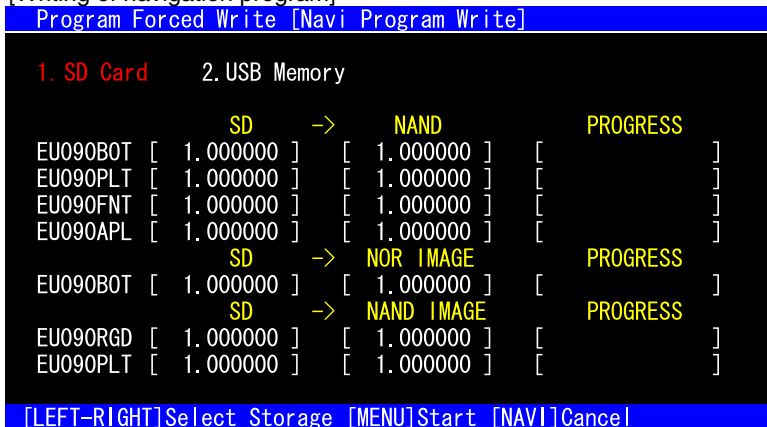
If "Complete" is not displayed in 1 minute after the percentage reaches 100%, turn OFF and ON ACC, and then implement the writing of Bluetooth firmware again.

- | | |
|-----------------------|-------------------------------------|
| 6. Opening Data Write | ... Startup screen data is written. |
|-----------------------|-------------------------------------|

<<Key operation>>

VOLUME + ... Nothing operates
 VOLUME - ... Nothing operates
 LEFT/UP ... SD card is selected
 RIGHT/DOWN ... USB memory is selected
 MODE ... Writing is started. * Valid only when the program is checked
 HOME ... Operation returns to the program selection

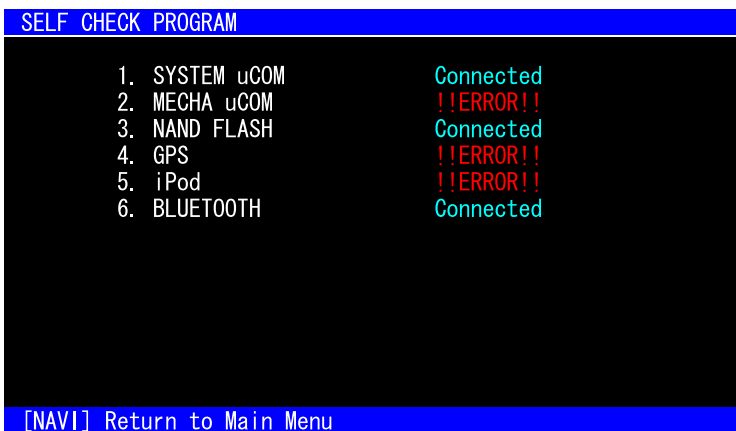
[Writing of navigation program]



4. SELF CHECK PROGRAM

The connection status of function module installed in the product is displayed.

In the case of non-connection, error is displayed and the target module is considered to be fault.



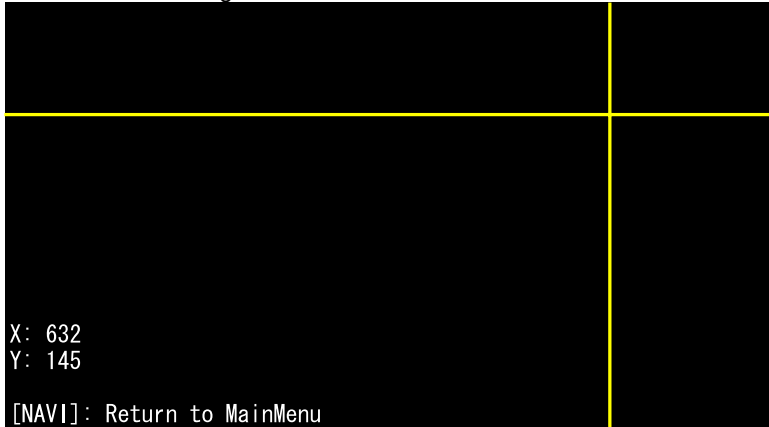
Diagnostic Target

	Target Unit	Check Content	Required Time for Diagnosis	Indication when OK	Indication when NG
1	System uCom	Confirm connection status	Less than 1 second	Connected	!!ERROR!!
2	Mecha uCom	Confirm connection status	Less than 1 second	Connected	!!ERROR!!
3	NAND Flash	Confirm connection status	Less than 1 second	Connected	!!ERROR!!
4	GPS RF Unit	Confirm connection status	Less than 1 second	Connected	!!ERROR!!
5	iPod Authentication Chip	Confirm connection status	Less than 1 second	Connected	!!ERROR!!
6	Bluetooth Unit	Confirm communication setup status	Approx. 60 seconds, max.	Connected	!!ERROR!!

5. Touch Panel Check

At the touch panel check, X, Y coordinates of location where touched are obtainable.

Screen under Checking



When touched, the coordination value where touched is displayed as well as vertical and horizontal lines are illustrated with the cross point at the touched location. The coordination value is set as the original point at upper-left and X coordinate to the right and Y coordinate to the down, and maximum value of X coordinate is 800 and of Y coordinate is 480.

6. Touch Panel Test

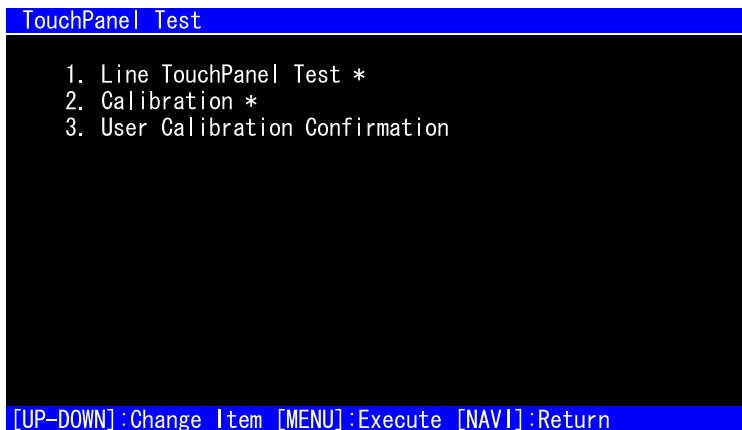
The following two items are performed at the touch panel test;

1. Line Touch Panel Test
2. Calibration Test
3. User Calibration Confirmation

The line touch panel test is the test for determining whether touch panel is out of alignment or not by depressing four points displayed on the screen.

At the calibration test, calibration adjustment is performed to compensate the misalignment of the touch panel. User touches displayed 17 points in order and correction is automatically performed after touching.

At the User Calibration Confirmation, it is displayed that whether the user has executed calibration adjustment or not.



1. Line Touch Panel Test

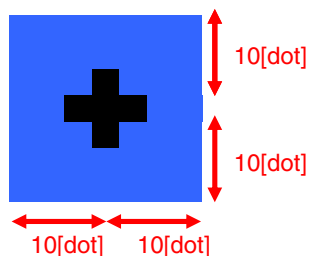
Touch the illustrated points in order.

If touched incorrectly, + mark is displayed in red.

When the touching proceeded to the final point of four (4), [OK] is displayed and the test is completed.

When depressing [HOME] key, [NG] is displayed and return to the menu screen.

The condition to be OK (move to the next point) when illustrated point is touched is that the touched point should be within the following range;



If the touched point is within 10 dots from the center, the touch is determined as valid.

2. Calibration Test

Touch the illustrated points in order.

Unlike the line touch panel test, move to the next point after touching.

You are not able to exit from the test until all 17 points are touched.

When touching on 17 points is completed and calibration is successful, [FINISHED] is displayed and if the calibration is unsuccessful, [NG] is displayed.

Return to main menu with [HOME] key.

3. User Calibration Confirmation

The following is displayed when

User already performed calibration	Executed
User not performed yet calibration	Not executed

7. Monitor Test Mode

Adjustment or test related to monitor is able to be performed.

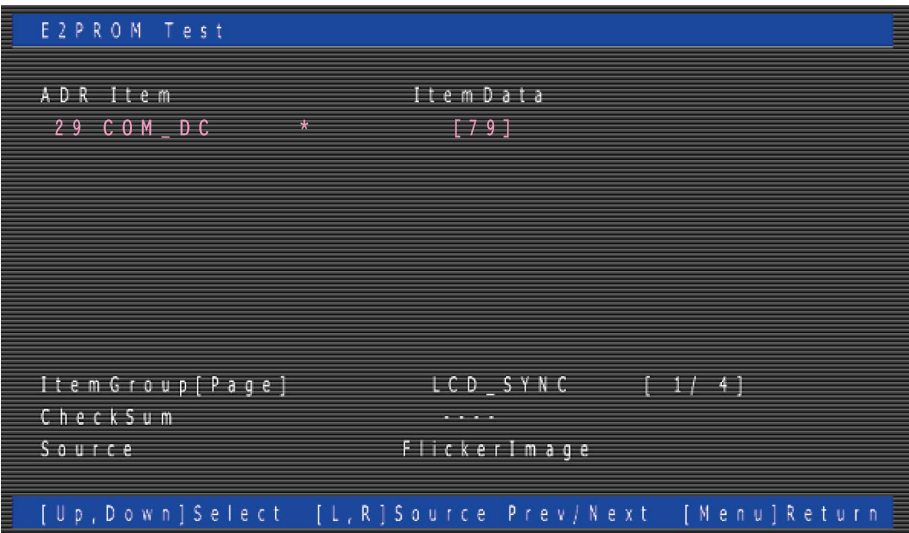
Menu Screen



<<Menu Items>>

Menu	Contents
1. E2PROM Test	Change the value of E2PROM related to monitor display.
2. Service Test	Flicker adjusting mode for service.
3. Backlight Test	Change backlight setting value.
4. Illumination RGB Test	Change illumination RGB setting values.
5. E2PROM Initialize	Perform initialization of E2PROM.

1. E2PROM Test



<<Items>>

Item	Item Contents
ADR	Display address of adjustment item in hexadecimal number.
Item	Display adjustment item name whose setting value is adjustable.
ItemData	Display the setting value of adjustment item which is indicated in the Item in hexadecimal number.
ItemGroup[Page]	Display group name and page number of adjustment item indicated on screen. The number of pages is indicated in decimal.
CheckSum	Display the checksum of adjustment item group displayed on screen in hexadecimal. In the case of group which does not have checksum, the value is indicated as -----.
Source	Display the source name of image indicated as background.

2. Service Test

```

Service Test

COM_DC (00-FF) [ 79 ]
FACTORY (00-FF) 79

[Left,Right]ItemData Up/Down [Menu]Return

```

<<Items>>

Item Name	Contents
COM_DC	Display COM_DC value (center value of common inversed output) in hexadecimal. This is also adjustable.
FACTORY	Display the factory shipping out reference value of COM_DC value in hexadecimal. This is just the item for indication and not adjustable.

3. Backlight Test

```

Backlight Test

1. BackLight Brightness Data [ 100 ]
2. BackLight Brightness Chg [ 001 ]

[Enter]Execution [Left/Right]ChangeData [Up/Down]Select

```

<<Items>>

Item Name	Contents
Backlight Brightness Data	Current backlight brightness (microcomputer saved value).
Backlight Brightness Chg	Backlight brightness is adjustable by the set value.

4. Illumination RGB Test



<<Items>>

Item Name	Contents
Data-R	R (Red) data value
Data-G	G (Green) data value
Data-B	B (Blue) data value
E2PROM Write	ON/OFF setting of writing to E2PROM

5. E2PROM Initialize

[Range Selection Screen]



<<Items>>

Item	Item Contents
All Initialize	Perform initialization of E2PROM entire region.
Part Initialize	Perform initialization of E2PROM specified region (Region assigned by the Design Division).

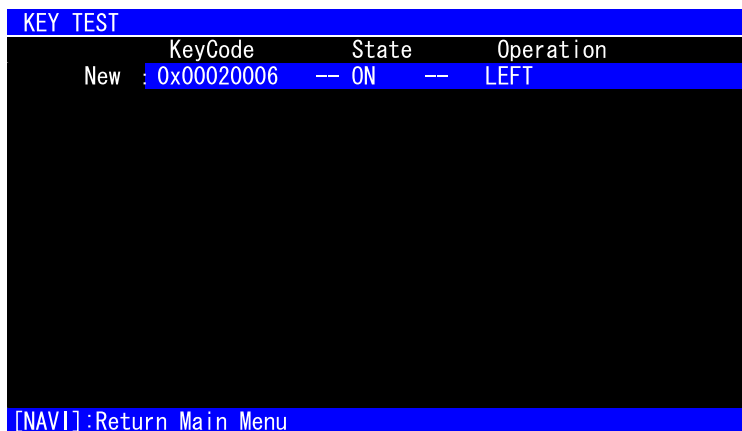
8. Key Test

At the key entry test, key code of the hard key depressed, depressed/released status and key description are displayed.

Retaining up to 12 histories is also possible.

When [HOME] key is depressed, however, it returns to the main menu.

Test Screen



Key Code: Specific value allocated to each key
 State: ON ... Status when key is depressed
 OFF... Status when key is released
 Operation Description: Operation description of each key

Key Name	Key Code	Operation Description
EJECT	0x00000001	DISC EJECT
MODE	0x20000013	NAVI/AV
VOL UP	0x20000008	VOL UP
VOL DOWN	0x20000009	VOL DOWN
LEFT	0x20000006	LEFT
RIGHT	0x20000007	RIGHT
VOICE UI	0x2000001a	VOICE RECOGNITION
HOME+LEFT	0x0002001b	MENU+LEFT
HOME+RIGHT	0x0002001c	MENU+RIGHT
LEFT+MODE	0x0002001d	LEFT+NAVI/AV
EJECT+MODE	0x0002001e	EJECT+NAVI/AV

9. Port Test

At this test, port status of each item is displayed as Hi/Low.

Port Test	
Port Name	State
1. External RDS/MSNDirect Connection Sense Port	: HI
2. GPS Antenna Open Sense Port	: LOW
3. GPS Antenna Short Sense Port	: LOW
4. For Develop Sense Port	: HI
5. USB OverCurrent Protection Sense Port	: HI

[NAVI] :Return

The following port status is able to be confirmed.
Each description for port is as follows;

1. Detection of External RDS/MSNDirect Connection:

At this port, the status of external RDS/MSNDirect connection detection port is displayed.
Hi: Connection detected Low: Connection not detected
2. Detection of GPS Antenna Open Sense:

At this port, the status of GPS antenna OPEN detection port is displayed.
Hi: GPS antenna open status is detected. Low: GPS antenna not-open status is detected.
3. Detection of GPS Antenna Short Sense:

At this port, the status of GPS antenna short-circuit detection port is displayed.
Hi: GPS antenna short-circuit status is detected. Low: GPS antenna not shorted-circuit status is detected.
4. Input for Development Purpose:

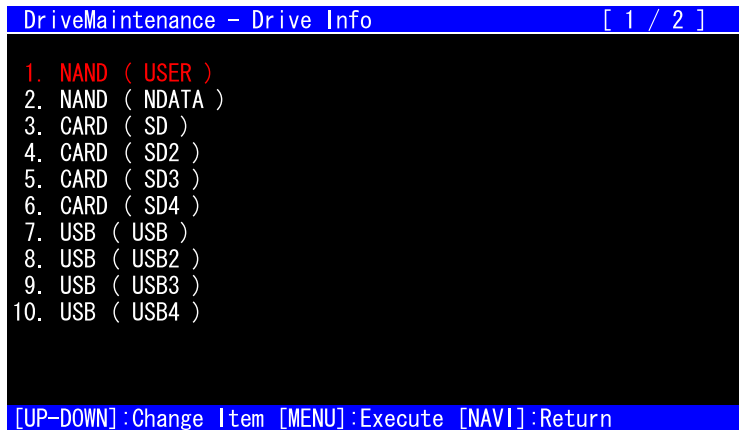
At this port, the input status of port prepared for development is displayed.
Hi: K-mode signal is detected at the UI of this application. Low: Not detected.
5. High side SW Overcurrent Detection Signal Input for USB Overcurrent Protection:

At this port, status is displayed as the detection of short-circuit of power supply for iPod (USB).
Hi: Normal operation Low: Short-circuit detected

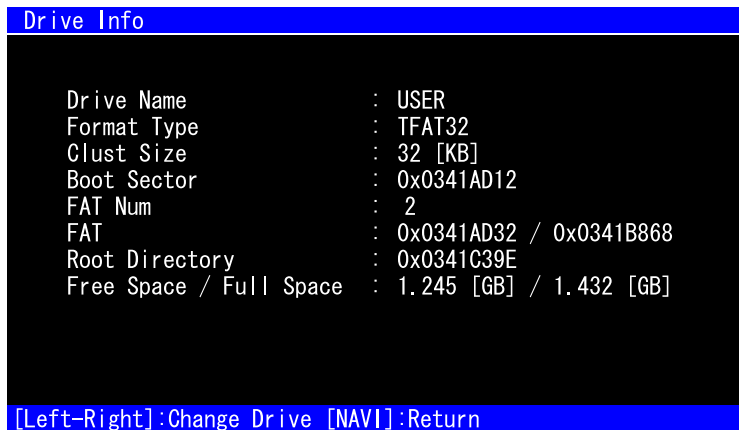
10. Drive Maintenance

In this test, each drive information is displayed and scan disc of NAND file is performed.

Drive Information



Drive Information Display Page

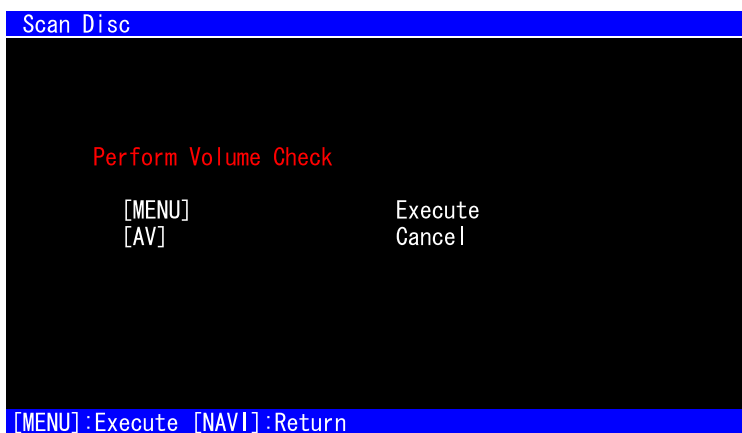


When drive information failed to be obtained, “Drive Information failed to be obtained” is displayed and an error number is displayed subsequently. Error numbers and cause of errors are as follows;

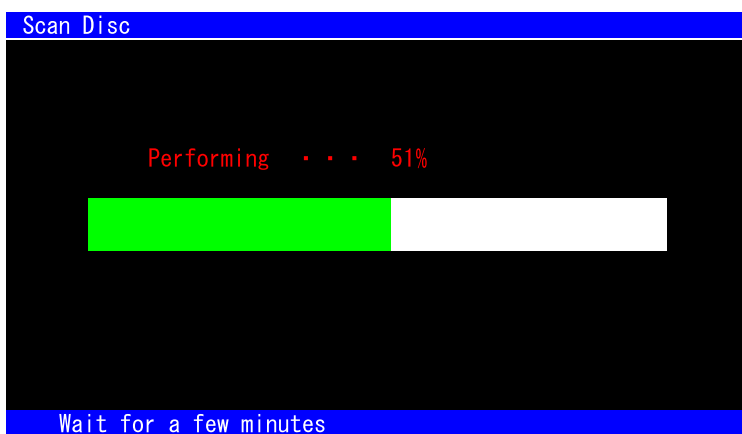
Error number	Cause of Error
20005700	Drive is not found
20005701	Device open failed
20005702	Formatting failed
20005703	Scan disc failed
20005704	Defragmentation failed
20005705	Mounting failed
20005706	Un-mount failed
20005707	Number of partition failed to be obtained
20005708	Read failed
20005709	Write failed
2000570a	Flash failed
2000570b	Partition Table incorrect
2000570c	Boot sector incorrect
2000570d	Not supported drive
2000570e	Drive information failed to be obtained
2000570f	No consecutive vacant region exists
20005710	Device connection failed to be released
20005711	Device connection start failed
20005712	Synchronous object generation failed
20005713	Incorrect parameters

Scan Disc

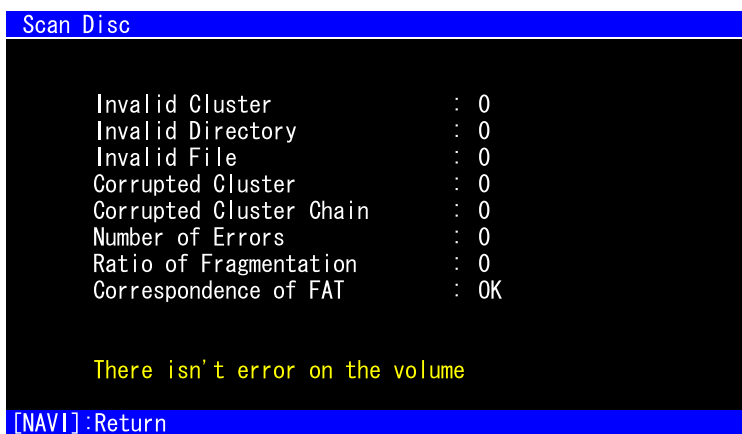
Screen for Starting Scan Disc



Screen for Scan Disc under Executing



Screen for Executed Result of Scan Disc



In the case of total error number being zero after the execution of scan disc, "There isn't error on the volume" is displayed.

11. File Maintenance

This test provides the capability to manage files in each directory.
In concrete terms, deletion of directory and execution of dumping are possible.

Operation Screen for the First Phase

```

File Maintenance
Path:
> ..
USER          <DIR>
NDATA         <DIR>
SD
SD2           <DIR>
SD3           <DIR>
SD4           <DIR>
USB           <DIR>
USB2         <DIR>
USB3         <DIR>
USB4         <DIR>
[Enter]      [Select]  [Delete]    [All]      [Help]
[UP-DOWN]ITEM [LEFT-RIGHT]PAGE [MENU]MENU [NAV]EXIT

```

The following 10 directories are becoming as the most significant directories.
USER/NDATA/SD/SD2/SD3/SD4/USB/USB2/USB3/USB4

The current file path is displayed on the first line.

Also, the directory under selection is marked in red and ">" is displayed at the left side of directory name.

Operable items are five (5) items, [Enter], [Select], [Delete], [All] and [Help].

- [Enter] : Enter into the next phase in the directory selected.
The content of file is displayed during a file is under selection.
- [Select] : Multiple number of directory or file is selectable.
"+" is displayed at the left side of directory or file name under selection.
By depressing [MENU] during the selection of directory or file,
selection status is released and "+" indication disappears.
- [Delete] : Delete the selected directory.
Collective deletion is possible during multiple numbers of
directories are selected.
- [All] : Select all of directories or files at the current phase.
All are marked in red and "+" is indicated.
By depressing [MENU] during the selection of directory or file,
selection status is released and "+" indication and red mark disappear.
- [Help] : "Help" is displayed.

When the operation item is marked in white, the operation is unable to be executed.

Regarding Display Method

```

SYSTEM          <DIR>
gpspara0       .bin      AR   69K   05/01/02 01:30
①              ②              ③   ④       ⑤

```

- ① Name of Directory/File
- ② At the time of Directory: <DIR> Indication
At the time of File: Extension Indication
- ③ Displaying File Attribute (Only at the time of file)
W: Writing Approval Attribute
R: Writing Prohibition Attribute
H: Hidden Attribute
A: Archive Attribute
S: System Attribute
- ④ File Size (Only at the time of file)
- ⑤ Time of Update (Only at the time of file)

12. GPS Information

At this test item, various values or status which is receivable from GPS are displayed.

Screen Display

* The First Page [Position]

GPS Information						
3D	T8	H	5.2	V	1.7	2008/07/23/13:56:34
SV						Delay
16	29	30	31			0.6
Lat	Lon		Alt			
N 35 55 40.3	E 139 25 33.4		-15			
Vel	Head	Climb	Laxis	Saxis	Angle	
0.0	155.8	0.1	12	9	78.8	
Position		Sv Stat	Diag	Err Info		
[L-R]:Select Item		[NAVI]: Return to MainMenu				

3D	T8	H: 5.2	V: 1.7	2008/07/23/13:56:34
①	②	③	④	⑤

SV					Delay
16	29	30	31		
⑥					⑦

- ① Positioning Status
- ② Number of Satellite where positioning is possible
- ③ Horizontal Accuracy for HDOP
- ④ Altitude Accuracy for VDOP
- ⑤ GPS Time
- ⑥ Satellite Vehicle Number in Acquisition
- ⑦ Delay Time

Lat	Lon		Alt
N 35 55 40.3	E 139 25 33.4		-15
⑧	⑨		⑩

Vel	Head	Climb	Laxis	Saxis	Angle
0.0	155.8	0.1	12	9	78.8
⑪	⑫	⑬	⑭	⑮	⑯

- ⑧ Latitude
- ⑨ Longitude
- ⑩ Altitude
- ⑪ Velocity in Horizontal Direction
- ⑫ Azimuth of Velocity in Horizontal Direction
- ⑬ Velocity in Vertical Direction
- ⑭ Long Axis of Error Ellipsoid
- ⑮ Short Axis of Error Ellipsoid
- ⑯ Long Axis Inclination of Error Ellipsoid

* The Second Page [Sv Stat]

GPS Information											
3D	T8	H	5.2	V	1.7	2008/07/23/13:56:34					
SV	Azi	Ev	SNR	Flag	Acc	SV	Azi	Ev	SNR	Flag	Acc
14	168	72	35.0	UY--	2	5	49	25	38.0	--C-	2
30	40	50	41.0	UY--	2	32	296	19	33.0	--C-	2
29	106	46	40.0	UY--	2	12	47	11	34.0	--C-	2
31	310	46	39.0	UY--	2	20	315	6	33.0	--C-	2
16	234	19	36.0	UY--	2						
22	198	10	35.0	UY--	2						

Position Sv Stat Diag Err Info
[L-R]:Select Item [NAVI]: Return to MainMenu

SV	Azi	Ev	SNR	Flag	Acc	SV	Azi	Ev	SNR	Flag	Acc
14	168	72	35.0	UY--	2	5	49	25	38.0	--C-	2

① ② ③ ④ ⑤ ⑥

- ① Satellite Vehicle Number in Acquisition
- ② Azimuth
- ③ Elevation Angle
- ④ Received Signal Level
- ⑤ Positioning Status
- ⑥ Accuracy

* The Third Page [Diag]

GPS Information	
2008/07/23/13:56:34	
Channel	12
Antenna Short	OK
Antenna Open	OK
Backup Error	OK

Position Sv Stat Diag Err Info
[L-R]:Select Item [NAVI]: Return to MainMenu

- Channel : GPS Diagnostic Result
- Antenna Shot : Detection of Antenna Short Circuit
- Antenna Open : Detection of Antenna Open Circuit
- Backup Error : Detection of Backup Error

* The Fourth Page [Err Info]

A

GPS Information					
#	Count	Number	Week	Time	
1	1	122	-1	8:59:59	(SUN)
2	1	121	-1	11:59:59	(SUN)
3	0	0	0	--:--:--	(---)
4	0	0	0	--:--:--	(---)
5	0	0	0	--:--:--	(---)
6	0	0	0	--:--:--	(---)
7	0	0	0	--:--:--	(---)
8	0	0	0	--:--:--	(---)
9	0	0	0	--:--:--	(---)
10	0	0	0	--:--:--	(---)

B

Position	Sv Stat	Diag	Err Info
[L-R]:Select Item		[NAVI]:Return to MainMenu	

#	Count	Number	Week	Time	
1	1	122	-1	8:59:59	(SUN)

- ① Count
- ② Error Number
- ③ Week of Error
- ④ Time of Error Happened
- ⑤ Day of the Week Happened

13. GPS Assessmentt

Version information for GPS driver and sensor module are displayed on the screen.

D

GPS assessment	
GPS DRIVER :	V6.0-BN0.0
SENSOR :	Ver.20.00

E

[NAVI]:Return

14. Clear GPS Backup Data

Perform the resetting of GPS driver, clearing backup data and display the result on the screen.

[At the time when the clearing of GPS backup is successful]

Clear GPS Backup Data

Start... Complete !

[NAVI] :Return

[At the time when the clearing of GPS backup is unsuccessful]

Clear GPS Backup Data

Start... ERROR !

[NAVI] :Return

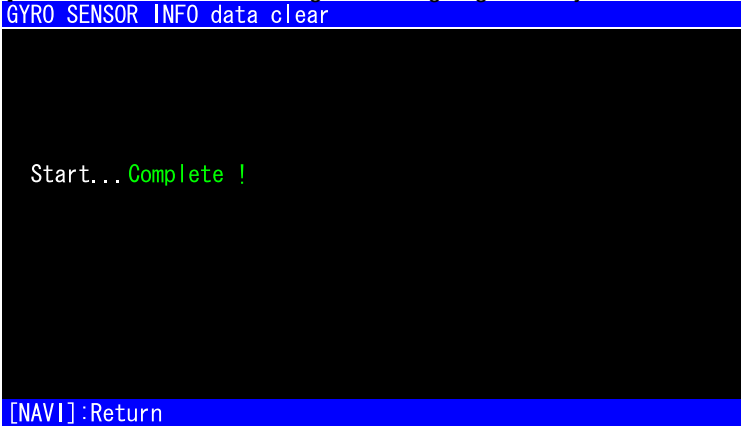
15. GYRO SENSOR INFO Data Clear

A

Perform the clearing of learning degrees in gyro sensor and display the results on the screen.

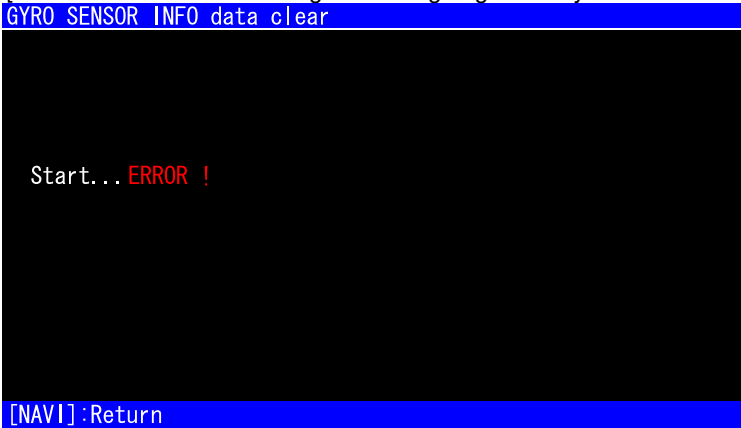
At the same time, clear the learning data saved in FLASH and SRAM.

[At the time when the clearing of learning degree in Gyro Sensor is successful]



B

[At the time when the clearing of learning degree in Gyro Sensor is unsuccessful]



C

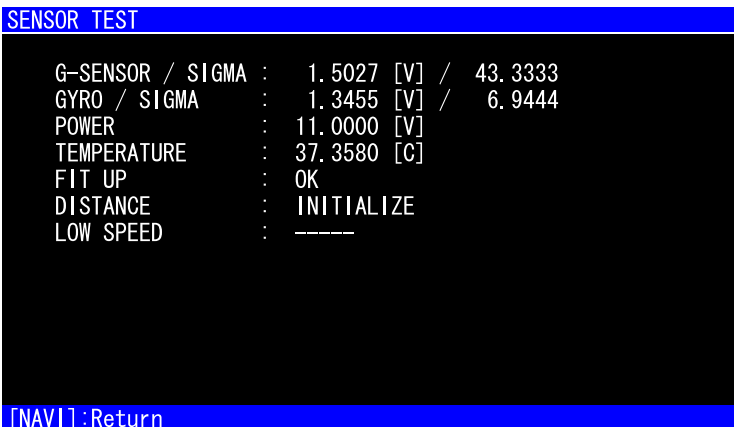
D

E

F

16. SENSOR Test

Sensor information (AD value, running status, installation status on main body and error at sensor learning) is displayed on the screen.



G SENSOR / SIGMA : Display of G-sensor voltage value
 GYRO / SIGMA : Display of GYRO voltage value
 POWER : Display of power supply voltage
 TEMPERATURE : Display of Temperature
 FIT UP : Display of installation status
 DISTANCE : Display of distance calculation status
 LOW SPEED : Display of the lowest output speed of low speed NG vehicle
 (Depending on the status of DISTANCE)

Display Content of FIT UP

Display	Status
NG	Installation Position, NG
OK	Installation Position, OK (The third-best)
OK(Better)	Installation Position, OK (The second-best)
OK(Best)	Installation Position, OK (The best)

Display Content of DISTANCE

Display	Status
INITIALIZE	Sensor under initial learning
GPS	GPS Distance (Pulse not connected at the model without G sensor)
G-SENSOR	G sensor distance (Simplified hybrid)
ND-PG1	ND-PG1 Distance
SPEED PULSE	Vehicle speed pulse distance

Display Content of LOW SPEED

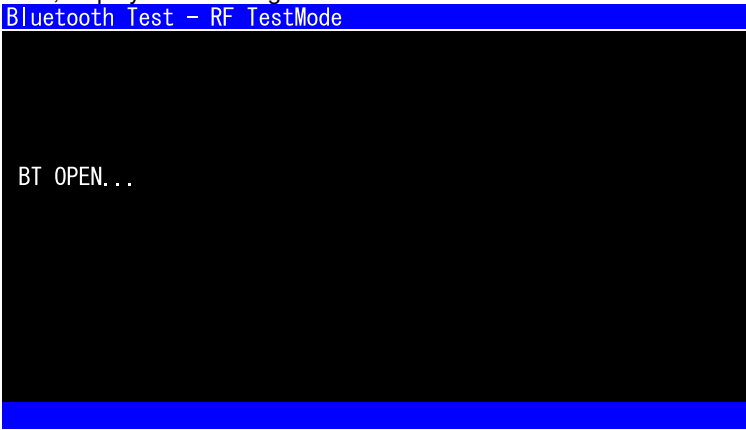
DISTANCE	Status of SPEED PULSE	Display
SPEED PULSE	Low speed vehicle speed pulse under learning	CHECK
	Low speed vehicle speed pulse, OK	OK
	Low speed vehicle speed pulse, NG	NG
Others		-----

17. Bluetooth Test

Emit radio wave for Bluetooth authentication.

Screen at the Time of Start

First, display the following screen.



Display sub menu screen after the completion of internal processing.

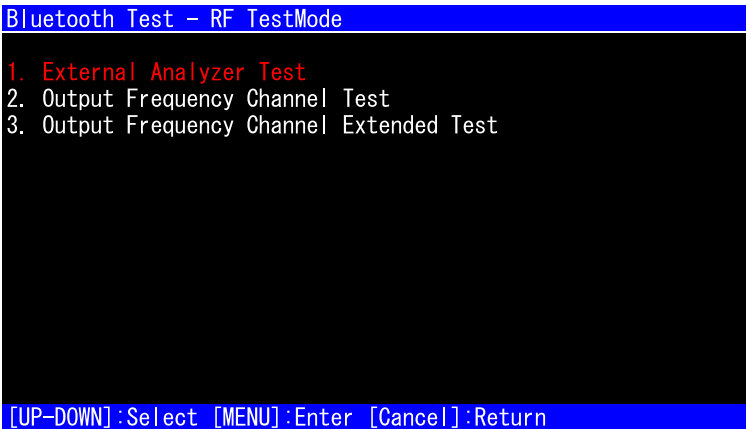
Screen in Case of Error



Return to the main menu with [HOME] key.

This screen is also displayed when Bluetooth is internally used in other test. Please execute Bluetooth Unit test again after depressing [HOME] key or resetting.

0. Sub Menu Screen



Select item with [↑], [↓] keys and determine with [MODE] key. Return to the main menu with [HOME] key.

1. External Analyzer Test

Select [1. External Analyzer Test] from sub menu, the screen changes to the following by depressing [MODE] key and the radio wave is emitted.

Screen under Radio Wave Emission

Bluetooth Test – RF TestMode

1. External Analyzer Test

Now Testing...

[Cancel]:Return

Please start the measurement.

Return to the sub menu with [HOME] key.

2. Output Frequency Channel Test

Select [2. Output Frequency Channel Test] from sub menu, the screen changes to the following by depressing [MODE] key, and then select a pattern.

RF TestMode-Output Frequency Channel Test [1/6]

Please select frequency mode.

- 00. Transmission Channel 0 (without GFSK)
- 01. Transmission Channel 39 (without GFSK)
- 02. Transmission Channel 78 (without GFSK)
- 03. Transmission DH5 Channel 0 (with GFSK)
- 04. Transmission DH5 Channel 39 (with GFSK)
- 05. Transmission DH5 Channel 78 (with GFSK)
- 06. Reception Channel 39
- 10. Using Only 20 Low Channel (0-19)
- 11. Using Only 20 Mid Channel (31-50)
- 12. Using Only 20 High Channel (60-79)

[UP-DOWN]:Select [MENU]:Enter [Cancel]:Return

Select a page with [←], [→] keys.

Select an item with [↑], [↓] keys.

Emit the radio wave of pattern selected with [MODE] key.

Return to the sub menu with [HOME] key.

Selection patterns consist of six pages.

* Items 10, 11 and 12 on page 1 are not usable. [MODE SET ERROR!!!] is displayed.

Please execute the test of items on page 4, 5 and 6, respectively.

(The test content becomes in the form of 10, 11 and 12 of items 36 ~ 44.)

Page 1

00. Transmission Channel 0 (without GFSK)
 01. Transmission Channel 39 (without GFSK)
 02. Transmission Channel 78 (without GFSK)
 03. Transmission DH5 Channel 0 (with GFSK)
 04. Transmission DH5 Channel 39 (with GFSK)
 05. Transmission DH5 Channel 78 (with GFSK)
 06. Reception Channel 39
 10. Using Only 20 Low Channel (0-19)
 11. Using Only 20 Mid Channel (31-50)
 12. Using Only 20 High Channel (60-79)

Page 2

15. transmission channel 19(without GFSK modulation)
 16. transmission channel 19(with GFSK modulation)
 17. reception channel 19
 18. reception channel 0
 19. reception channel 78
 30. transmission DH1 channel 39
 31. transmission DH3 channel 39
 32. transmission DH1 channel 0
 33. transmission DH3 channel 0
 34. transmission DH1 channel 78
 35. transmission DH3 channel 78

Page 3

36: transmission DH1with AFH activated
 37: transmission DH3 with AFH activated
 38: transmission DH5 with AFH activated
 39: transmission 2-DH1 with AFH activated
 40: transmission 2-DH3 with AFH activated
 41: transmission 2-DH5 with AFH activated
 42: transmission 3-DH1 with AFH activated
 43: transmission 3-DH3 with AFH activated
 44: transmission 3-DH5 with AFH activated

Page 4

36_10. Using Only 20 Low Channel (0-19)
 37_10
 38_10
 39_10
 40_10
 41_10
 42_10
 43_10
 44_10

Page 5

36_11. Using Only 20 Mid Channel (31-50)
 37_11
 38_11
 39_11
 40_11
 41_11
 42_11
 43_11
 44_11

Page 6

36_12. Using Only 20 High Channel (60-79)
 37_12
 38_12
 39_12
 40_12
 41_12
 42_12
 43_12
 44_12

Screen during the Emission of Radio Wave

Bluetooth Test - RF TestMode

00. Transmission Channel 0 (without GFSK)

Now Testing...

[Cancel]:Return

Selected test item and [Now testing.....] are displayed.
Please start the measurement.

Return to the sub menu with [HOME] key.

3. Output Frequency Channel Extended Test

Radio wave in which 7 items are set in detail is emitted.

Bluetooth Test - RF TestMode

1. Parameter Setting

2. Execute

[UP-DOWN]:Select [MENU]:Enter [Cancel]:Return

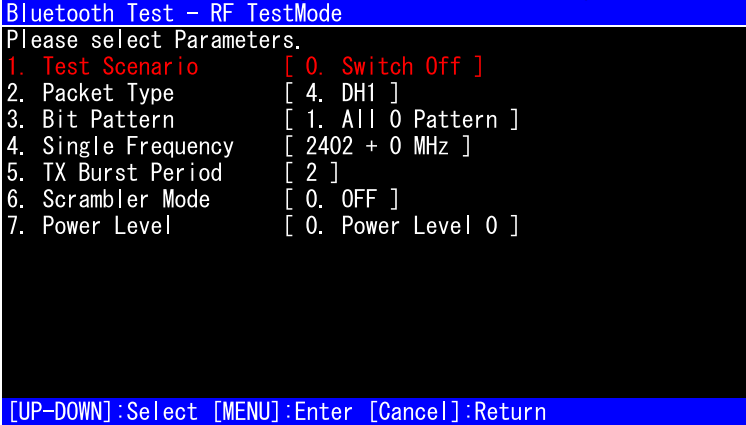
Select item with [↑], [↓] keys and determine with [MODE] key.
Return to the sub menu with [HOME] key.

Flow of Process

After the detailed setting which was performed on [1. Parameter Setting], select [2. Execute] and emit the radio wave which was set by depressing [HOME] key.

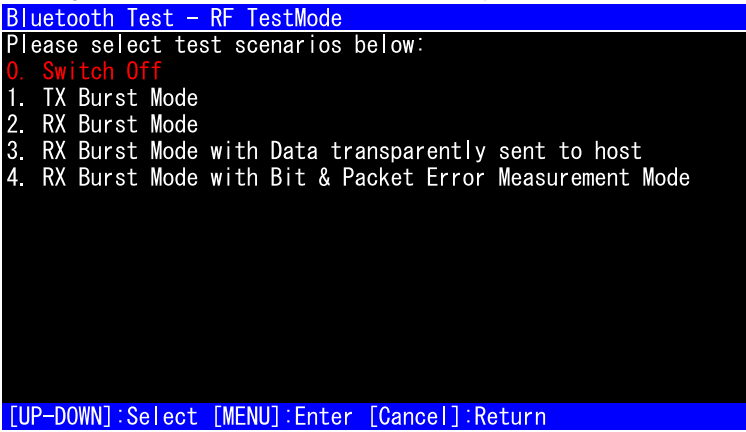
3-1. Parameter Setting

Select [1. Parameter Setting] and depress [HOME] key, then the screen becomes the item selecting screen below.



Select item desired to be changed with [↑], [↓] keys and determine it with [MODE] key. Return to Output Frequency Channel Extended Test menu with [HOME] key.

Setting screen for the selected item is displayed.



Select item desired to be changed with [↑], [↓] keys. Value is set with [MODE] key and return to Output Frequency Channel Extended Test menu. Return to Output Frequency Channel Extended Test menu with [HOME] key.

* Setting of [4. Single Frequency] and [5. TX Burst Period] are numerical entry so the display method becomes as follows;



Move the digit of numerical value desired to be set (cursor indicated with blue color) with [←], [→] keys. Change the numerical value with [↑], [↓] keys. Value is set with [MODE] key and return to Output Frequency Channel Extended Test menu. Return to Output Frequency Channel Extended Test menu with [HOME] key.

In Case of Error Exists in the Setting Value

Bluetooth Test - RF TestMode

Parameter Error!

Please set the parameter again.

[Cancel]:Return

Value is set with [MODE] key and return to Output Frequency Channel Extended Test menu.

Please retry by entering correct value.

3-2. Execute

After the necessary setting is completed, select [2. Execute] from Output Frequency Channel Extended Test menu, then the set radio wave is emitted by depressing [MODE] key.

*The set content is able to be confirmed on the screen by depressing [HOME] key after selecting [1. Parameter Setting].

Bluetooth Test - RF TestMode

Now Testing...

Please check it with a tester.

[Cancel]:Return

Please start the measurement.

Return to Output Frequency Channel Extended Test menu with [HOME] key.

Setting Value of Output Frequency Channel Extended Test

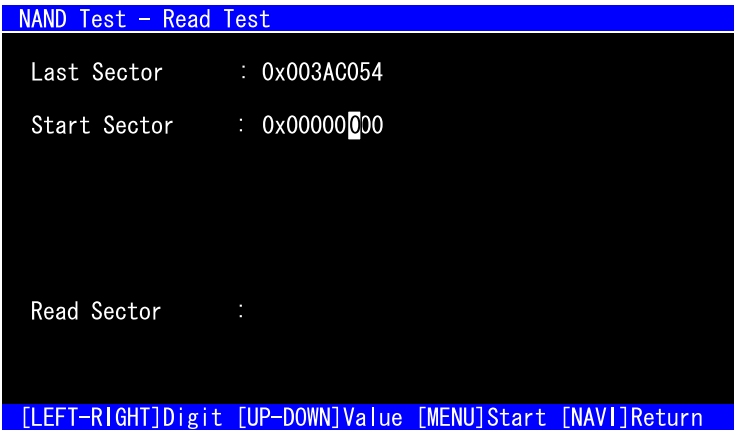
A	1. Test Scenario
	<ul style="list-style-type: none"> 0. Switch Off 1. TX Burst Mode 2. RX Burst Mode 3. RX Burst Mode with Data transparently sent to host 4. RX Burst Mode with Bit & Packet Error Measurement Mode
B	2. Packet Type
	<ul style="list-style-type: none"> 4. DH1 11. DH3 15. DH5 36. 2-DH1 40. 3-DH1 42. 2-DH3 43. 3-DH3 46. 2-DH5 47. 3-DH5
C	3. Bit Pattern
	<ul style="list-style-type: none"> 1. All 0 Pattern 2. All 1 Pattern 3. 1010 Pattern 4. PRBS-9 Sequence 9. 11110000 Pattern 10. 1100 Pattern
D	4. Single Frequency
	2402 + (00-93)MHz Value in parenthesis is able to be set arbitrarily.
E	5. TX Burst Period
	(002-254) Value in parenthesis is able to be set arbitrarily
F	6. Scrambler Mode
	<ul style="list-style-type: none"> 0. OFF 1. ON
	7. Power Level
	<ul style="list-style-type: none"> 0. Power Level 0 1. Power Level 1 2. Power Level 2 3. Power Level 3 4. Power Level 4

18. NAND Test

Perform the test on the read-write of NAND Flash.

1. Read Test

Perform reading one sector by one sector from NAND Flash by assigning a starting sector number.



This screen displays the following contents when error happens before getting into read test.

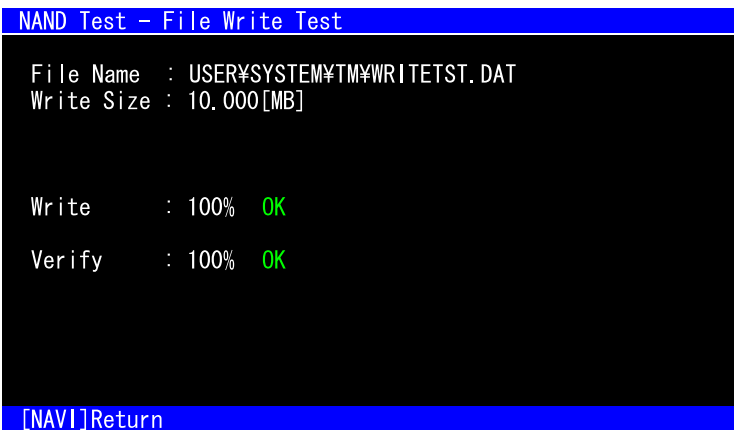
- In the Case of a Device Opening not Successful
Fail to open device.
- In the Case of Obtaining Device Information not Successful
Fail to get device informations.
- In the Case of Internal Buffer Generation not Successful
Fail to create internal buffer.

2. File Write Test

Write a file into NAND Flash by using File System.

The written file is saved in the path below.

USER\SYSTEM\TM\WRITETST.DAT



This screen displays the following contents when error happens at the file writing test.

- In the Case of a Device Opening not Successful
Fail to open device.
- In the Case of Obtaining Device Information not Successful
Fail to get device informations.
- In the Case of Internal Buffer Generation not Successful
Fail to create internal buffer.
- In the Case of Writing a File not Successful
File write error.
- In the Case of Verify not Successful
Fail to verify data.

19. Clearing FLASH User Area

Perform initialization/deletion of file data or variable which is used by the software of each navigation function (AV, One-Segment, GPS, etc.).
 ([Initialization of Backup Variable] contained in the models before 08JPRO, is also included in this item.)

USER'S AREA OF FLASH CLEAR

With [MENU] key, the following items executed.

```
CLEAR USER DATA OF NAND FLASH
CLEAR BACKUP VARIABLE
CLEAR SRAM DATA OF SOME MODULES
```

Push [NAVI] Key to Return to Main Menu.

Target of Deletion

	Module	Remarks
1	NAND User Area	Application USER\RW USER\SETUP
2	Backup Variable	
3	SRAM	RDS/TMC, AV, Application

In the case of clearing process not successful, the back ground turns to red and error contents are displayed.
 Please refer to [Error View] for the details of error factors.

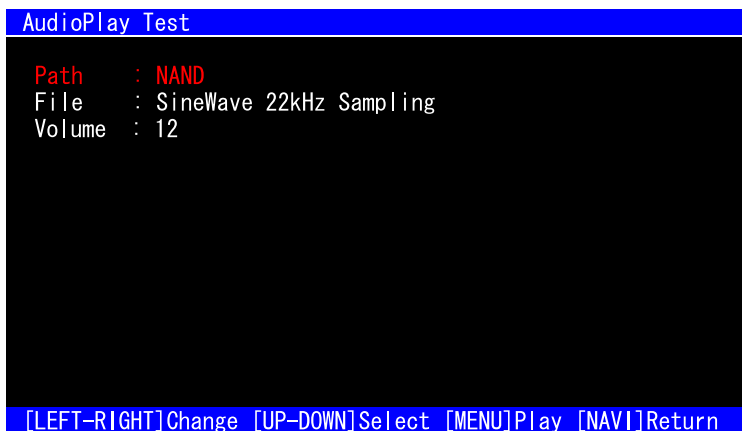
Error View

Displayed Error	Error Factor
No File to be Deleted	This is displayed when file or directory to be deleted is not found. In this case, the situation is not an error because file to be deleted does not exist on NAND-FLASH anymore.
CRC Error, Uncorrectable Error	This is displayed when data writing/reading is failed.
Device under Preparation	This is displayed when NAND-FLASH is under preparation (such as under mounting) and unusable.
Other Errors	Displayed when errors are other than above.

20. Audio Play Test

Perform the confirmation of guidance audio output line by playing audio file.
Audio is only played from the speaker in front.

File Selection Screen



<<Description of Screen>>

Path : Media where audio play file is placed is selectable.
(NAND Flash/SD Card)

File : File to be played is selectable.

Please refer to the following table for details of playing file.

Volume : Audio volume is selectable from 0 to 31, in 32 steps.
Mute is applied when assigning 0.

File Display	Description of File
SineWave 11kHz Sampling	Reproduce sinusoidal wave of 1KHz sampled with 11.025 KHz
SineWave 22kHz Sampling	Reproduce sinusoidal wave of 1KHz sampled with 22.05 KHz
Music 11kHz Sampling	Reproduce music file sampled with 11.025 KHz
Music 22kHz Sampling	Reproduce music file sampled with 22.05 KHz
Narration 11kHz Sampling	Reproduce narration sampled with 11.025 KHz
Narration 22kHz Sampling	Reproduce narration sampled with 22.05 KHz

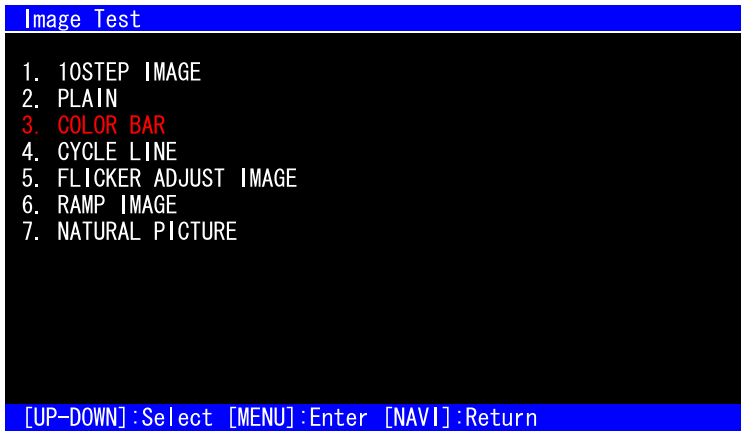
Error information is displayed when error happened during test.

Display	Content of Error
File is not found.	This happens when play targeted file is not found.
Device open failed.	This happens when software setting for play is unsuccessful.
Fail to create internal buffer.	Securing memory required for play is unsuccessful.
Device Error.	Problem happens in software processing during audio playing.

21. Image Test

A Display a specified image.

0. Sub Menu Screen



1. 10STEP IMAGE

This is 10-gradation image from 0% white to 100% white.

2. PLAIN

One color is painted on one screen.

The color is changed by pressing LEFT/RIGHT key.

3. COLOR BAR

The color bar of 8 colors is displayed.

4. CYCLE LINE

The black-and-white stripe pattern of 1-8 dot width is displayed.

5. FLICKER ADJUST IMAGE

The stripe pattern of 1 dot width for checking flicker is displayed.

6. RAMP IMAGE

This is the 32-gradation image from 0% white to 100% white.

7. NATURAL PICTURE

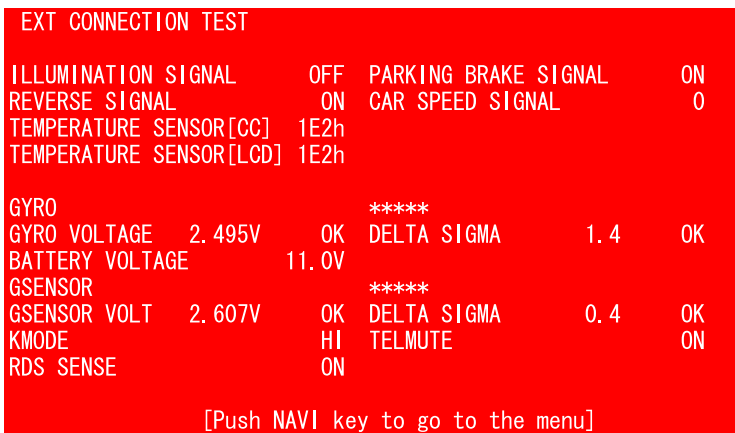
The figure image is displayed.

An arbitrary image file can be displayed by placing an arbitrary image file with the file name "Natural.jpg" on the route of SD or USB.

22. External Connection Test

Display information regarding externally exposed terminals or sensors such as illumination terminals, vehicle speed pulse terminals, etc. Corresponding terminals are different depending on destination.

The status of item shown on the following figure is updated for every 0.5 second.



OK/NG Determination Condition

GYRO Test

OK/NG Determination of BATTERY VOLTAGE

(Obtain the difference of gyro output value and offset standard value and perform OK/NG determination.)

Offset Standard Value: 1.35 [V]

- Within + 0.025 [V]: Output Voltage OK (OK is displayed)
- Within + 0.025 ~ + 0.05 [V]: Within the allowable aging tolerance (USABLE is displayed)
- More than + 0.05 [V]: Output Voltage NG (NG is displayed)

OK/NG Determination of DELTA SIGMA Value

(Perform variation determination from Gyro variance value)

- Less than 30.0: Variation OK (OK is displayed)
- More than 30.0: Variation NG (NG is displayed)

G SENSOR Test

OK/NG determination of BATTERY VOLTAGE ? Planned change of determination value.

(Obtain the difference of G Sensor output value and offset standard value and perform OK/NG determination.)

Offset Standard Value: 1.5 [V]

- Within + 0.2 [V]: Output Voltage OK (OK is displayed)
- Within + 0.2 ~ + 0.26 [V]: Within the allowable aging tolerance (USABLE is displayed)
- More than + 0.26 [V]: Output Voltage NG (NG is displayed)

OK/NG Determination of DELTA SIGMA Value

(Perform variation determination from G Sensor variance value)

- Less than 80.0: Variation OK (OK is displayed)
- More than 80.0: Variation NG (NG is displayed)

* USABLE Range is the OK range of parts in which aging change is taken into consideration.

(USABLE is displayed on the screen)

* OK Range is the value determined when shipping test.

* At the Service Quarter, please determine OK products as parts if it is in the range of USABLE.

Temperature Sensor Output Value

(Display temperature AD value of temperature sensor in hexadecimal expression)

- CC Part Temperature Sensor
2B0 [- 30°C] ~ 10C [85°C]: Normal Operation Range (determination is not displayed)
Other than above: NG
- LCD Temperature Sensor
3F6 [- 25°C] ~ 015B [85°C]: Normal Operation Range (determination is not displayed)
Other than above: NG

23. Speech Microphone Line Test

A

Perform confirmation of speech microphone input line for audio recognition.
 Input from the microphone is output from guidance audio line via AC97 Codec.
 The confirmation of muting circuit on the guidance audio line is also confirmed by this test.

[Display of Test Screen]

Test Screen



B

C

<<Screen Description>>

GMUTE : Mute setting on guidance audio line.
 During "L" setting, microphone input is output from the front speaker.
 During "H" setting, muting status is set.

<<Operation Description>>

MENU : Switchover of GMUTE port
 HOME : Return to Main Menu

Error message

- When the setting of AC97 Codec is failed
Failed to CODEC through setting.
- When the setting of MUTE port is failed
Failed to port control.

D

E

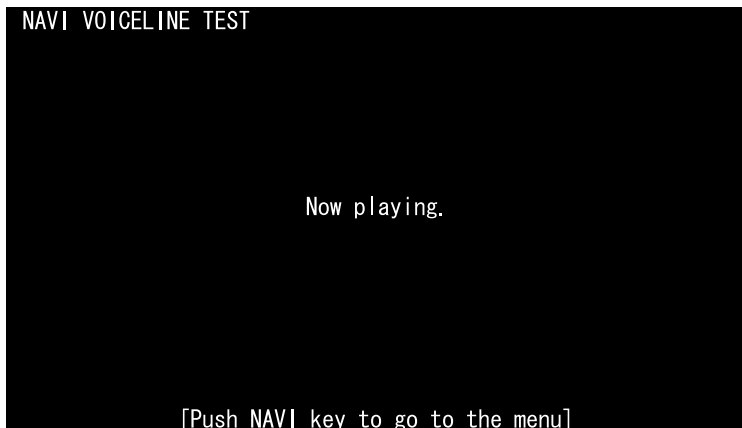
F

24. NAVI Audio Line Test

Perform the confirmation of audio line for SD/USB Audio.
Sinusoidal wave of 1 KHz, 0 dB, is used for audio data.
Audio is output from front/rear speakers.

* The speaker output is set to large since this test is prepared for production line.
Please be careful when you use it at service.

[Display of Test Screen]



Sinusoidal wave is output from the speakers as far as this screen is displayed.

The message display differs depending on error content.
Please refer to the following table for details;

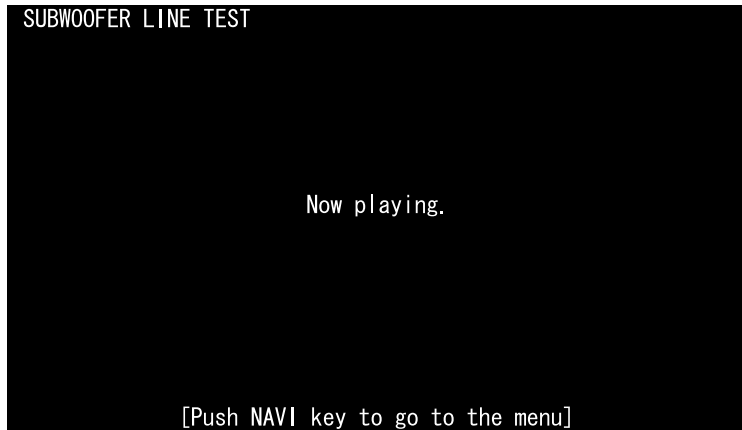
Message Displayed	Content
Failed to initial setting.	IC control on CC unit is unsuccessful. Possible hardware failure exists.
Failed to change volume.	Hard volume setting on AV unit is unsuccessful. Possible hardware failure exists.
Failed to change AV source.	Switchover to audio at navigation side is unsuccessful. Possible hardware failure exists.
Failed to mute off.	Mute releasing of AV source is unsuccessful. Possible hardware failure exists.
Device Open Error.	Software setting for playing sinusoidal wave is unsuccessful.
Device Error.	Problem happens in software processing during audio playing.

25. Subwoofer Line Test

This is the test for the pre-output line of subwoofer.
Sinusoidal wave of 100 Hz, 0 dB, is used for audio data.

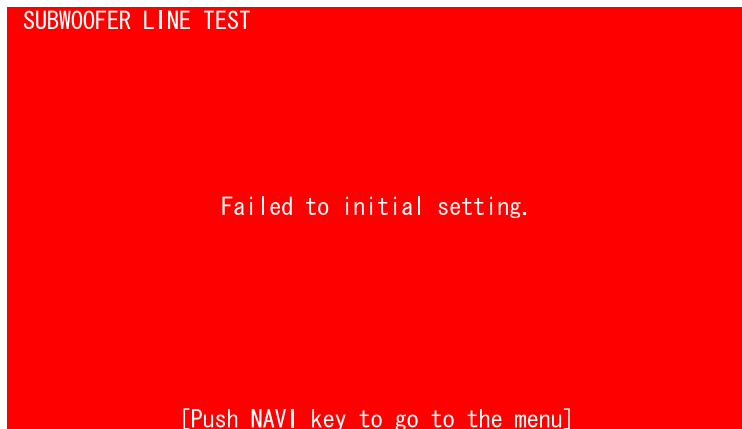
- * Audio is also output from front/rear speakers during this test.
- * The speaker output is set to large since this test is prepared for production line.
Please be careful when you use it at service.

[Display of Test Screen]



Sinusoidal wave is output from the speakers as far as this screen is displayed.

[Screen Display When Error Happening]

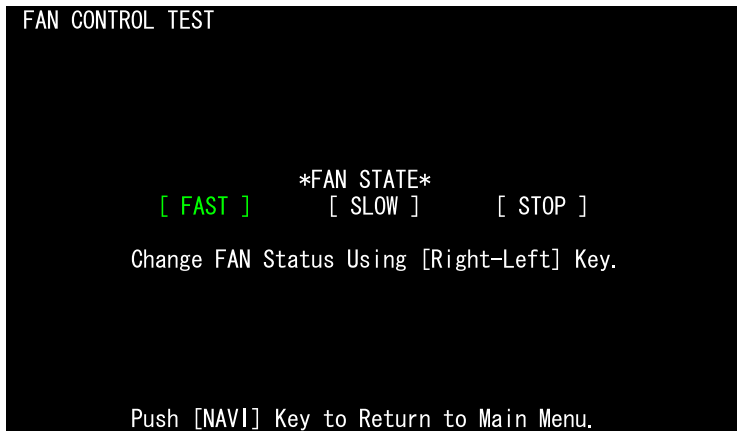


The message display differs depending on error content.
Please refer to the following table for details;

Message Displayed	Content
Failed to initial setting.	IC control on CC unit is unsuccessful. Possible hardware failure exists.
Failed to change volume.	Hard volume setting on AV unit is unsuccessful. Possible hardware failure exists.
Failed to change AV source.	Switchover to audio at navigation side is unsuccessful. Possible hardware failure exists.
Failed to mute off.	Mute releasing of AV source is unsuccessful. Possible hardware failure exists.
Device Open Error.	Software setting for playing sinusoidal wave is unsuccessful.
Device Error.	Problem happens in software processing during audio playing.

26. Fan Control Test

This is the item to test cooling fan installed at rear side of product.
In a normal situation, revolution rate is automatically changed depending on the interior temperature of a fan however FAN revolution rate is able to be confirmed regardless of temperature during the test execution.



In the case of error happened at fan control while switchover fan speed, red screen shown below is displayed. The error contents are displayed at the bottom of screen. Please refer to [Error View] for the details of error factors.

■ Error View

Switchover	NG	Comment
STOP<=>SLOW	POWER CONTROL NG	This is displayed when fan power source control is unsuccessful.
STOP<=>FAST	POWER CONTROL NG	This is displayed when fan power source control is unsuccessful.
SLOW<=>FAST	SPEED CONTROL NG	This is displayed when fan speed control is unsuccessful.

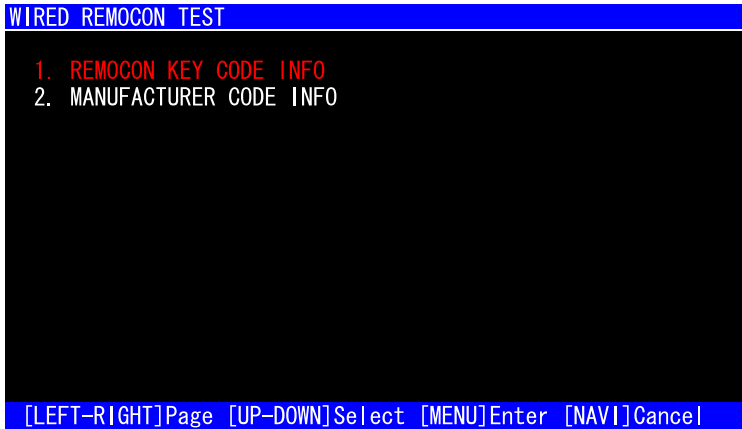
27. Wired Remote Control Test

A Perform connection test for wired remote control.

1. Remote Control Key Code Input Information (REMOCON KEY CODE INFO)
When depressing the key of connected wired remote control, the depressed key is displayed on the screen.
2. Manufacturer Code Input Information (MANUFACTURER CODE INFO)
Manufacturer code of connected wired remote control is displayed on the screen.

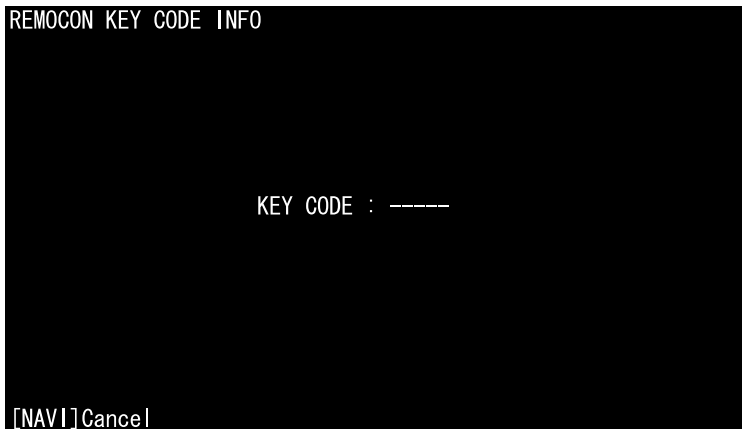
0. Wired Remote Control Test Menu

This is the menu screen for selecting items which configure this test.



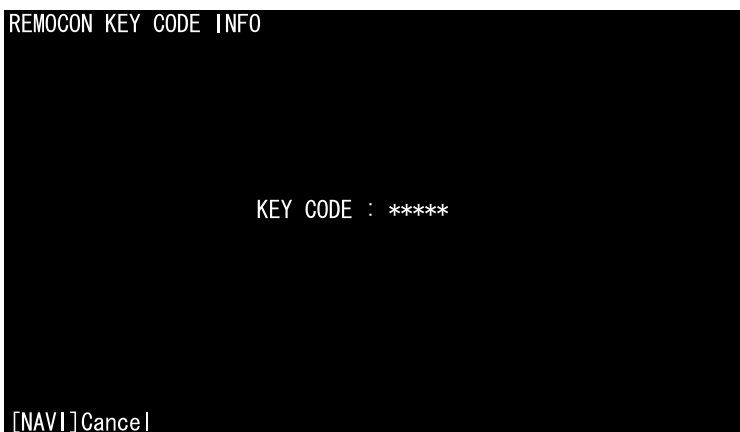
1.1. Remote Control Key Code Obtainment (Key Code not obtained)

This is the case of key code not obtained.



1.2. Manufacturer Code Input Information

Key code is displayed by depressing connected wired remote control key or test jig key.
Update is not performed until another key is depressed.



Key Allocation	
SOURCE	0x00010002
ATT	0x00010003
UP	0x00010004
DOWN	0x00010005
LEFT	0x00010006
RIGHT	0x00010007
VOL UP	0x00010008
VOL DOWN	0x00010009
BAND	0x0001000A
PHONE	0x0001000B
ON HOOK	0x0001000C
OFF HOOK	0x0001000D
SAT TEXT	0x0001000E
Audio Recognition	0x0001001A

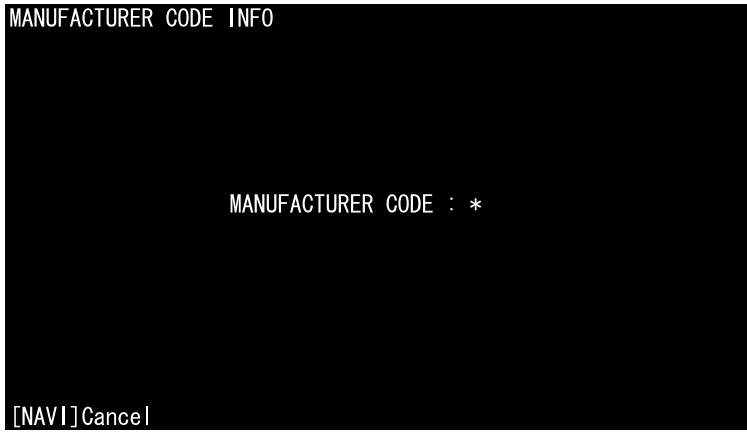
2.1. Manufacturer Code Input Information (Under Obtainment)

Obtain the manufacturer code for the connected wired remote control.



2.2. Manufacturer Code Input Information (Display)

Once the manufacturer code is obtained, the code is displayed.



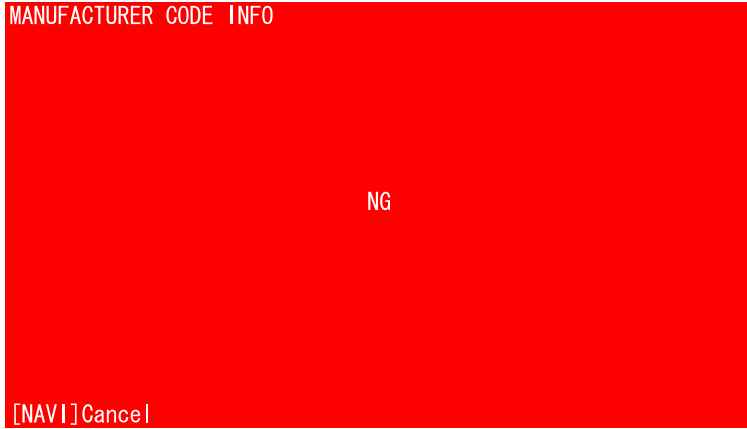
[*] is replaced by the following value.

Manufacturer Code	Value
A: TOYOTA, DAIHATSU	0A
B: HONDA	0B
C: MATSUDA	0C
D: SUBARU	0D
E: MITSUBISHI	0E
F: SUZUKI	0F

* Manufacturer Code is obtainable only for Japanese Domestic model. Value of [FF] is displayed this model.

2.3. Manufacturer Code Input Information (Obtainment Failed)

If the obtained code is abnormal value, this becomes NG and the screen below is displayed.

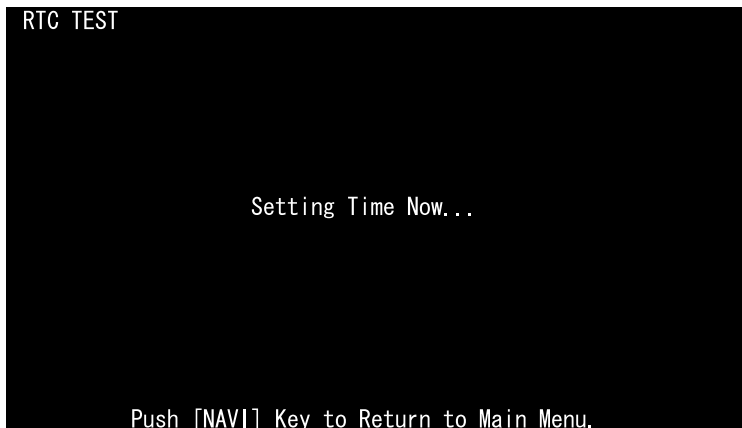


28. RTC Test

Perform the test of RTC (Real-Time Clock) function and of external circuit function used when obtaining RTC count.

1. Time Setting Screen

* This is not displayed when GPS antenna is connected.
If this test is performed under the status of GPS antenna disconnected,
[2008/10/01 12:00:00] is set as simulation time.
It takes approximately 6 seconds for the setting.



2. Time Display Screen

When the setting of simulation time is successful, the screen becomes as follows.
In addition, current time is set under the condition of the GPS antenna connected.



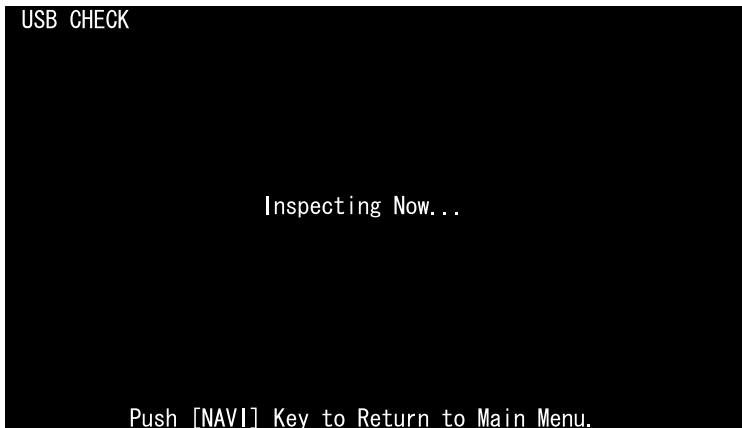
29. USB Check

This is the item to check all of USB terminals. USB memory is used for the test. Check the performance by write -> read -> file comparison of 1 KB file automatically.

0. Screen during the Test

Perform the test after inserting USB memory. The file to use for the test is automatically generated during the test so you do not have to prepare the file in advance. Also the generated file will automatically be deleted after the completion of test.

The following screen is displayed during a series of processing.



Please refer to [Error View] for the details of error factors.

Error View

Displayed Error	Factor
CARD recognition failure	Recognition of USB device is unsuccessful.
Drive capacity shortage	Free space of USB memory is insufficient and the test was unable.
File creation failed	File preparation in USB memory was unable.
Internal buffer creation failed	Securing the memory for data comparison was unsuccessful.
Data write error	Data writing was unsuccessful.
Data seek error	File pointer operation was unsuccessful.
Data read error	Reading out of data was unsuccessful.
Data verify error	Data comparison was unsuccessful.

30. SD CARD Test

Perform file accessing to SD card and confirm the SD card is usable without any problem.

<<Screen during Test>>

The following screen is displayed during the test.
 The test content generates file for the test on the SD card, reads data out after data writing and compares the read out data with written data.
 After the test is completed, the screen is switched over automatically.



In the case of error happened during the test, detailed information for the error is displayed on the red background.

Please refer to the following table for displayed error information and details;

Displayed Error	Factor
CARD recognition failure	SD card recognition was unsuccessful.
Drive capacity shortage	Free space of SD card is insufficient and the test was unable.
File creation failed	File preparation in SD card was unable.
Internal buffer creation failed	Securing the memory for data comparison was unsuccessful.
Data write error	Data writing was unsuccessful.
Data seek error	File pointer operation was unsuccessful.
Data read error	Reading out of data was unsuccessful.
Data verify error	Data comparison was unsuccessful.

31. External Input Test

Confirm the video input route or audio route is valid. The following three routes are targeted;

- I. iPod VIDEO [Video, Audio]
- II. External Input via RCA terminals (Video, Audio)

Input video and audio to NAVI via video/audio input terminals and confirm the result with NAVI screen and speaker.

In addition, confirm the rear monitor output.

At the start of test, set the VTR1 Input to ON and switch source to VTR.

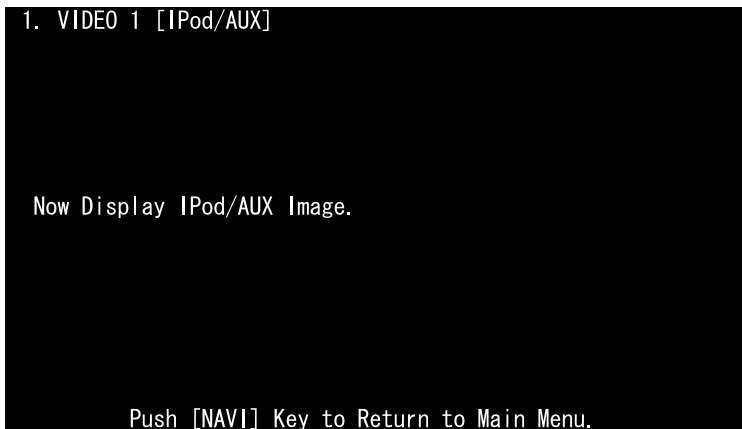
In addition, at the end of test, set the VTR1 Input to OFF and switch source to OFF.

During the test, please input the Parking Brake Signal (GND).

Menu Screen



I. iPod VIDEO [Video, Audio]



When error happens, the following error message is displayed;

- Case 1. Failed to Setup iPod/AUX-ON.
Input ON setting for microcomputer was unsuccessful.
- Case 2. Failed to Change Source of iPod/AUX.
Source switchover for microcomputer was unsuccessful.
- Case 3. Failed to Setup iPod/AUX-OFF.
Input OFF setting for microcomputer was unsuccessful.
- Case 4. Failed to Attest iPod.
iPod authentication was unsuccessful at the start of test.

II. External Input via RCA Terminals [Video, Audio]

2. VIDEO 2 [VTR]

Push [NAVI] Key to Return to Main Menu.

When error happens, the following error message is displayed;

Case 1. Failed to Setup VTR-ON.

Input ON setting for microcomputer was unsuccessful.

Case 2. Failed to Change Source of VTR.

Source switchover for microcomputer was unsuccessful.

Case 3. Failed to Setup VTR-OFF.

Input OFF setting for microcomputer was unsuccessful.

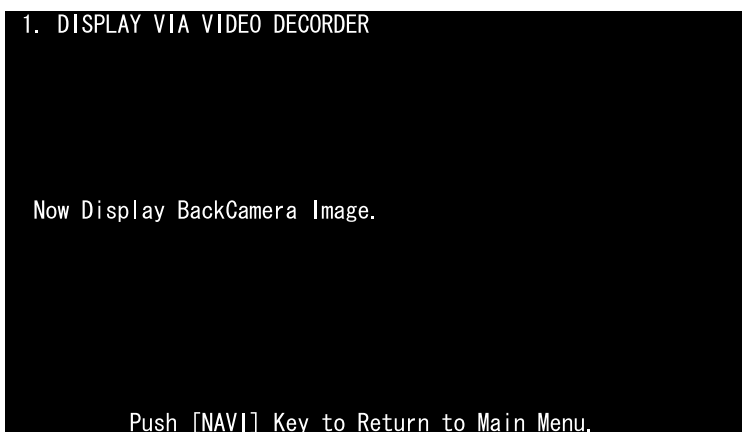
32. Back Camera Test

Confirm the signal line for back camera image is valid.

“Back Camera Image” which was input from Camera Image Input Terminals at rear side of the product is displayed.



1. Display via DECORDER



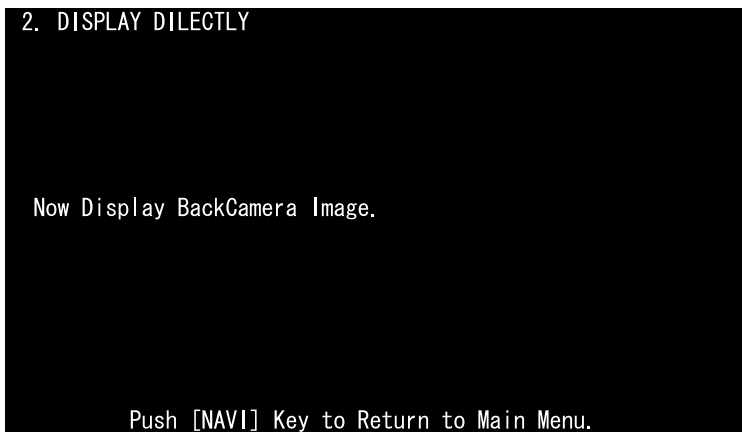
This is the screen when back camera image is under display.

The following error message is displayed when error happens;

Case: Back Camera ON setting was unsuccessful.

In the case microcomputer communication was unsuccessful.

2. Display Directly



This is the screen when back camera image is under display.

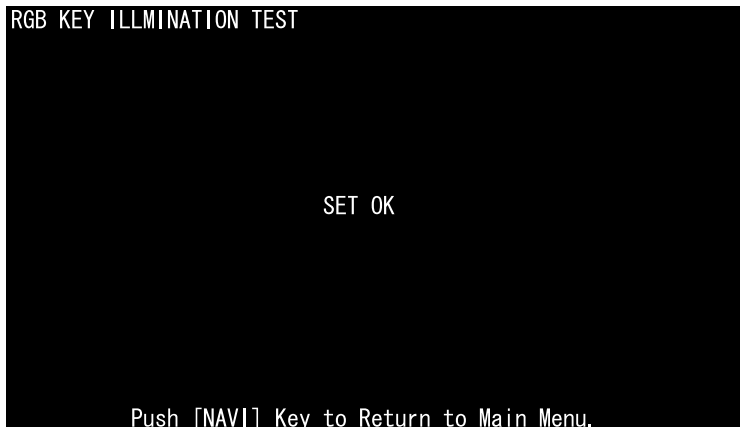
The following error message is displayed when error happens;

Case. Failed to Setup BackCamera.

In the case microcomputer communication was unsuccessful.

33. RGB Key Illumination Test

Test the three (3) wires which brighten RGB illumination of hard key.
It is OK when a white light is ON.



This is the screen for RGB Key Illumination Test.
RGB illumination for hard key glows white.

The following error message is displayed when error happens;

Case: Microcomputer Communication Error
Microcomputer communication was unsuccessful.

34. Confirmation of Drive Mechanism Close Position

This is the test item to confirm whether the closing of drive mechanism is performed correctly or not.

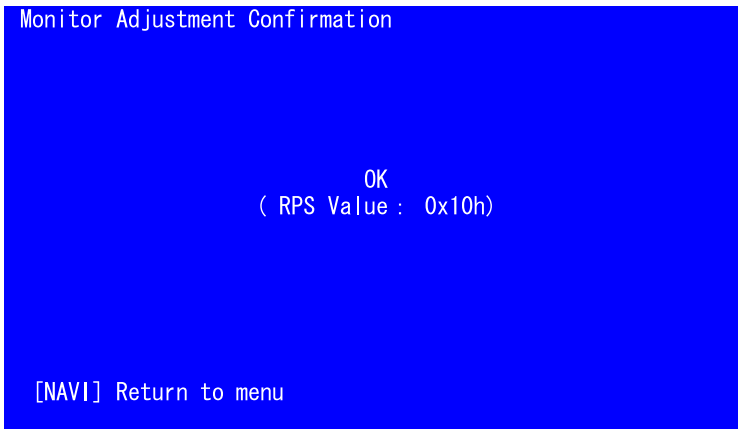
If the RPS value obtained at close status corresponds to
0x06h - 0x36h

Then the test is OK.

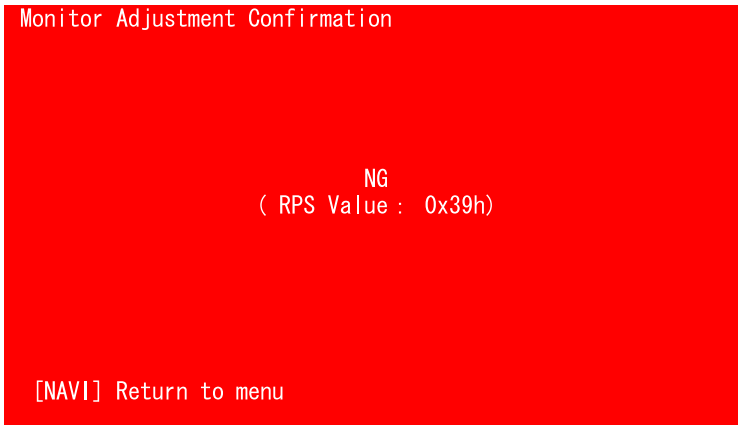
In other cases, the test is NG.

Test Screen

When Test is OK



When Test is NG



35. Product Information

The product information allocated to the product is displayed on the screen.



16 digit values sectioned into four (4) separated by a dot are displayed on the screen.
Example: 0000.1111.2222.3333

6.2 DVD TEST MODE

Before shifting to the test mode, please insert the "DISC".
Operate the equipment by turning ON the parking.



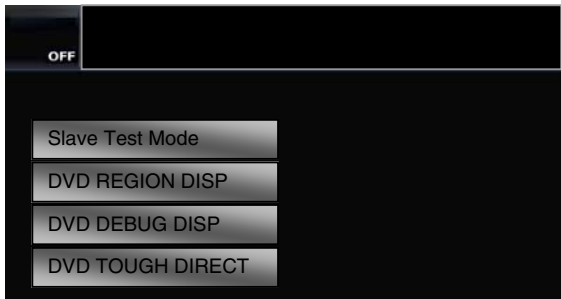
(1), (2) and (3) are invisible buttons.

Display the test mode screen by carrying out following operations on this screen.

Press areas of (1), (2) and (3) long in order.

Detailed procedure

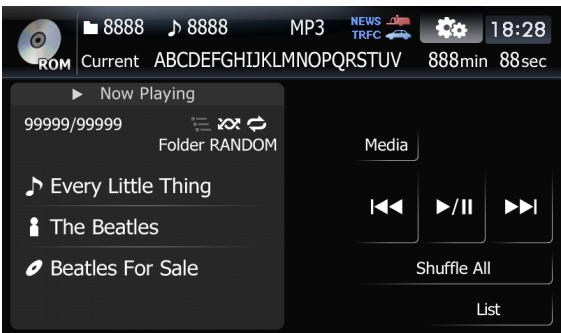
1. Display the source OFF screen.
2. Press the area of (1) long.
3. Press the area of (2) long.
4. Press the area of (3) long.



If the operations are completed successfully, the screen shifts to the test mode screen after pressing (3) long.

The test mode is released by ACC-OFF operation.

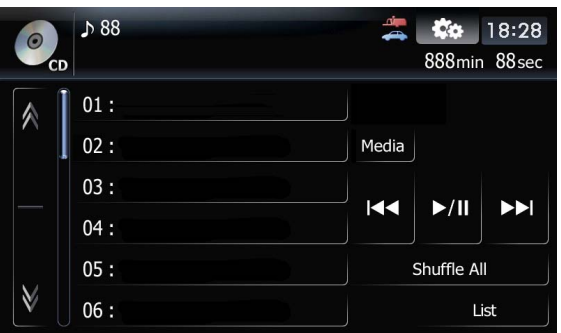
In order to enter the DVD mechanism module test mode, select "Slave Test Mode".



Switch the source to "DISC".

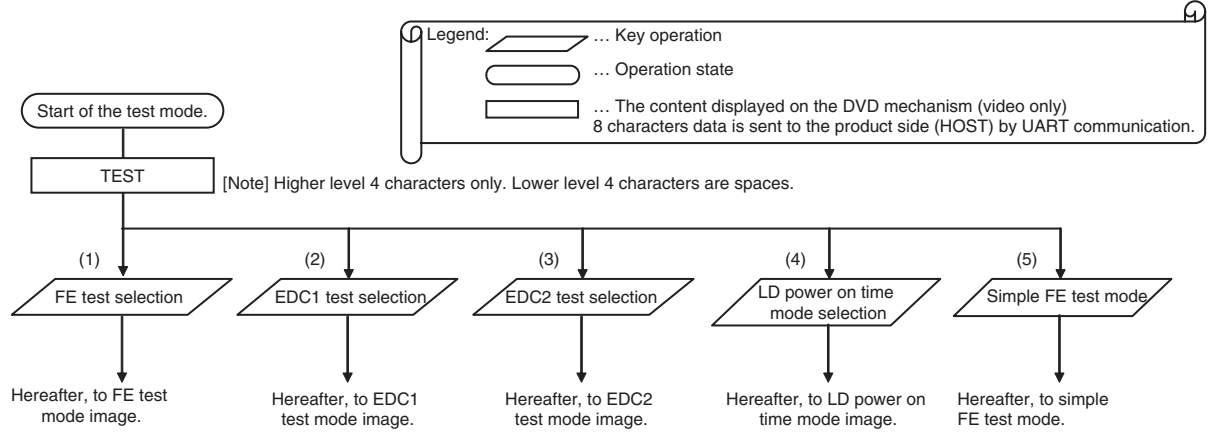
If you select the DVD source, the test mode screen shown in the left figure is displayed.

Press "List" to display the list on the screen.



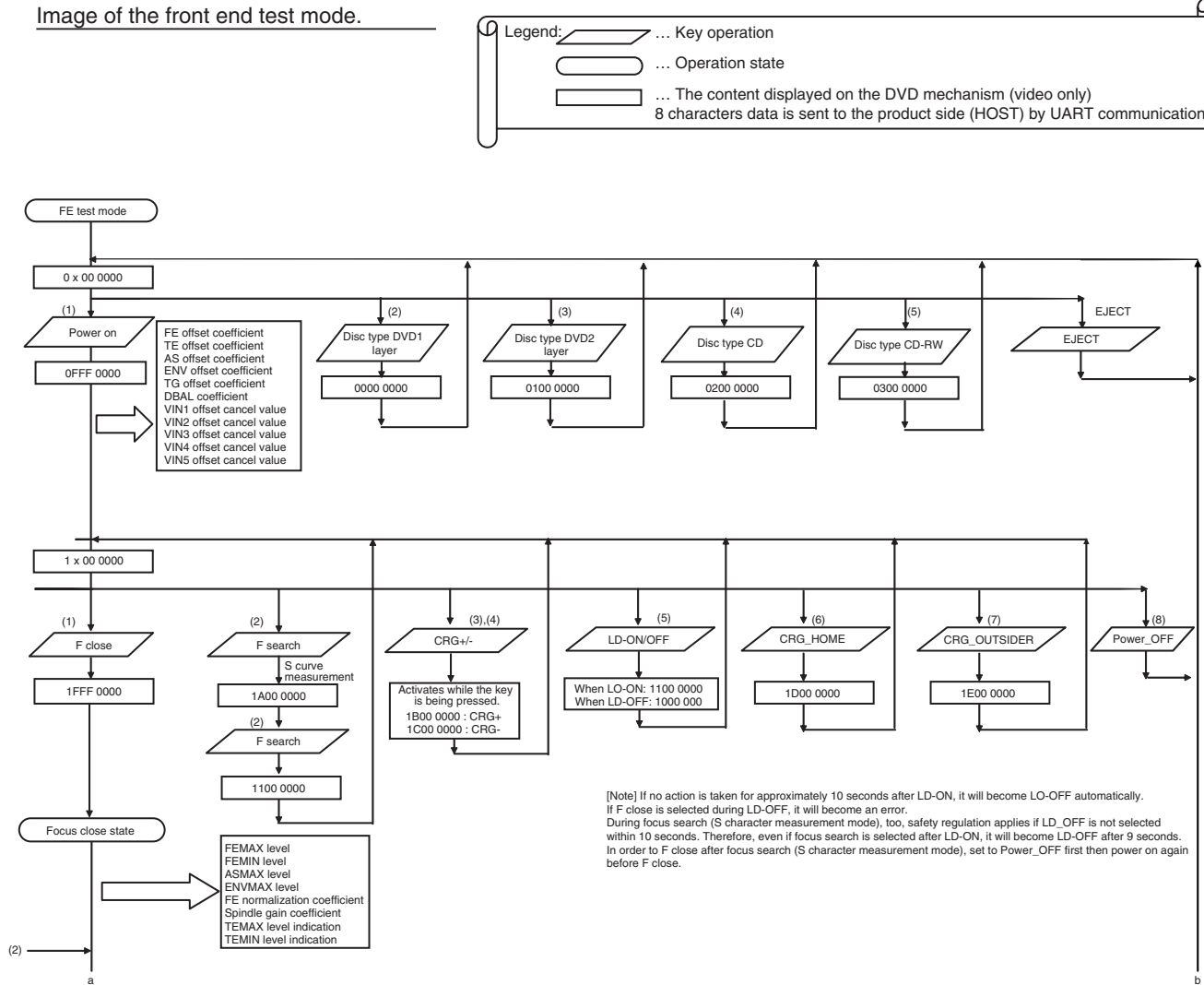
Operate the flow chart of the mechanism test mode with buttons shown in the left screen.

Up to lists 01 to 08

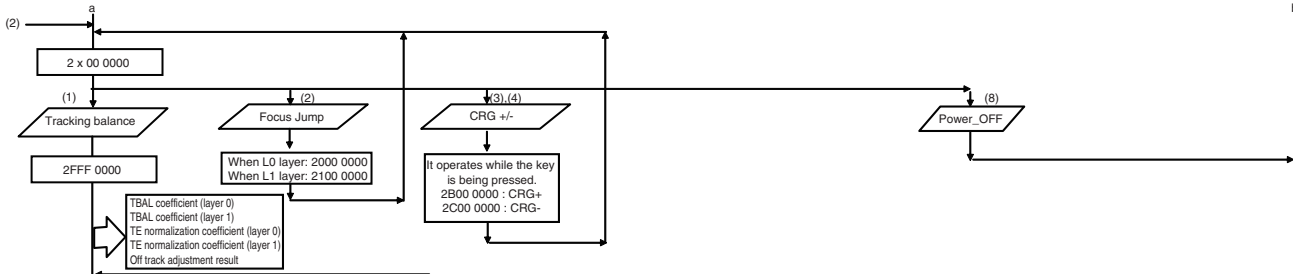


[Note] In order to move on to another test after selecting a test (FE/EDC1/EDC2), it is necessary to restart the DVD mechanism in the test mode.

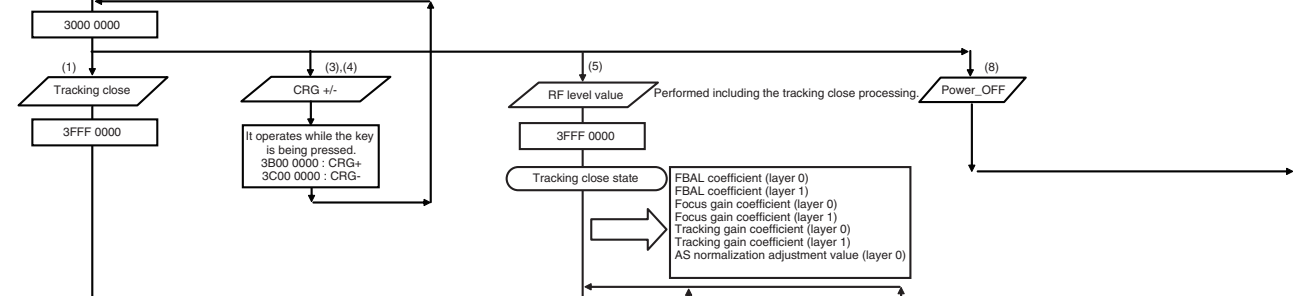
Image of the front end test mode.



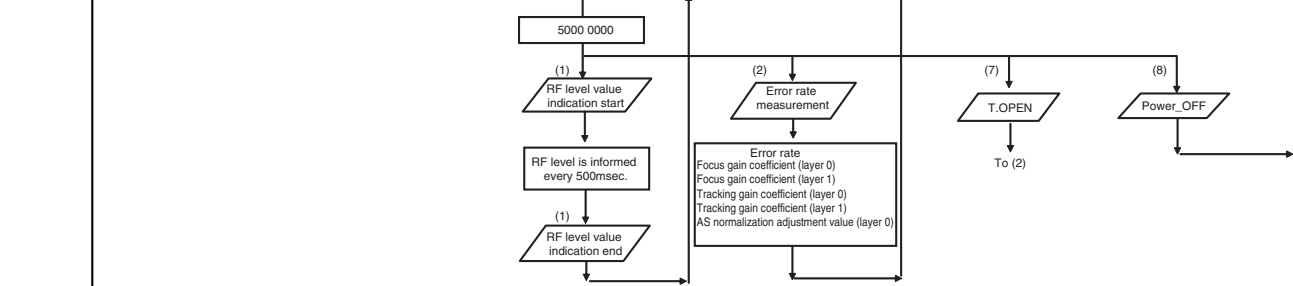
A



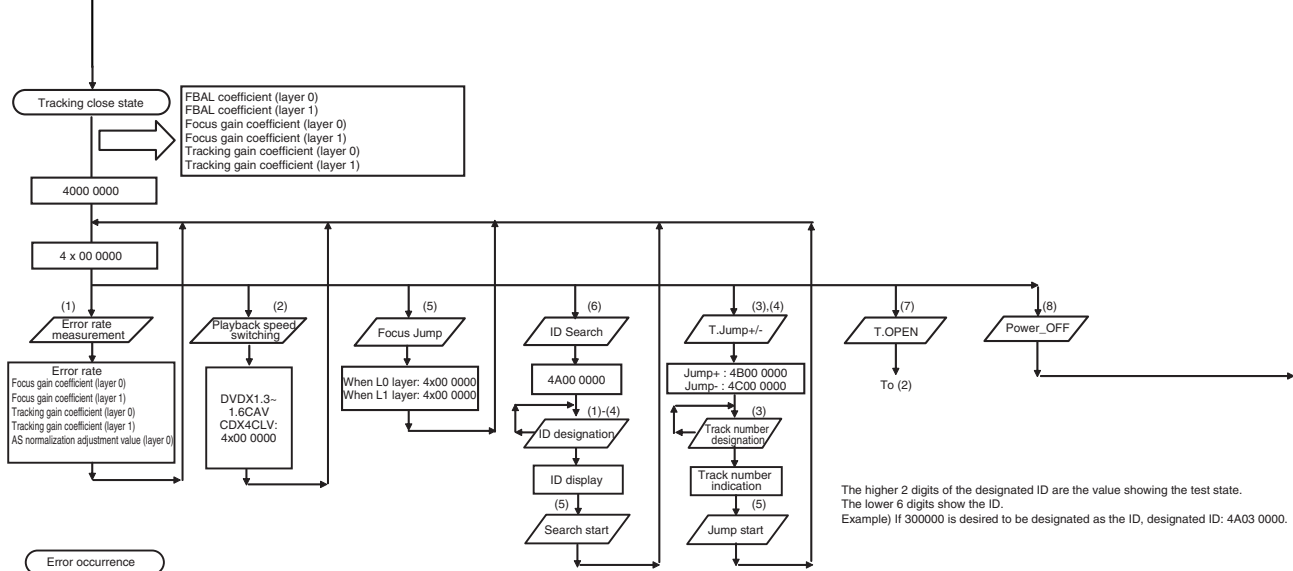
B



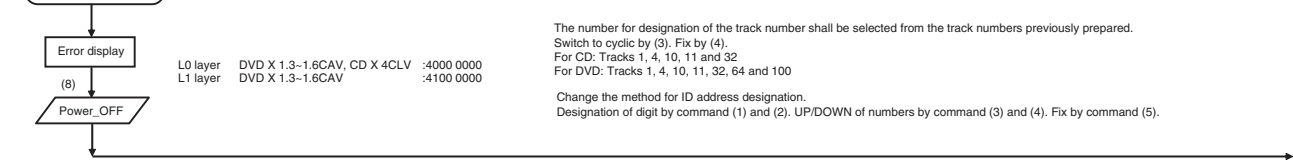
C



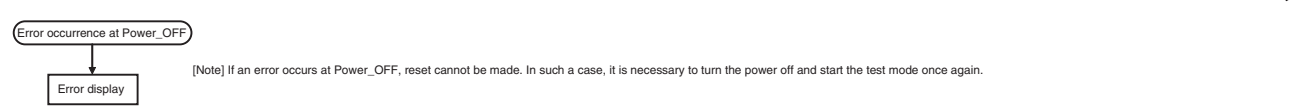
D



E



F



EDC. Image of the test mode

Legend:

- ... Key operation
- ... Operational state
- ... The content displayed on the DVD mechanism (video only)
8 characters data is sent to the product side (HOST) by UART communication.

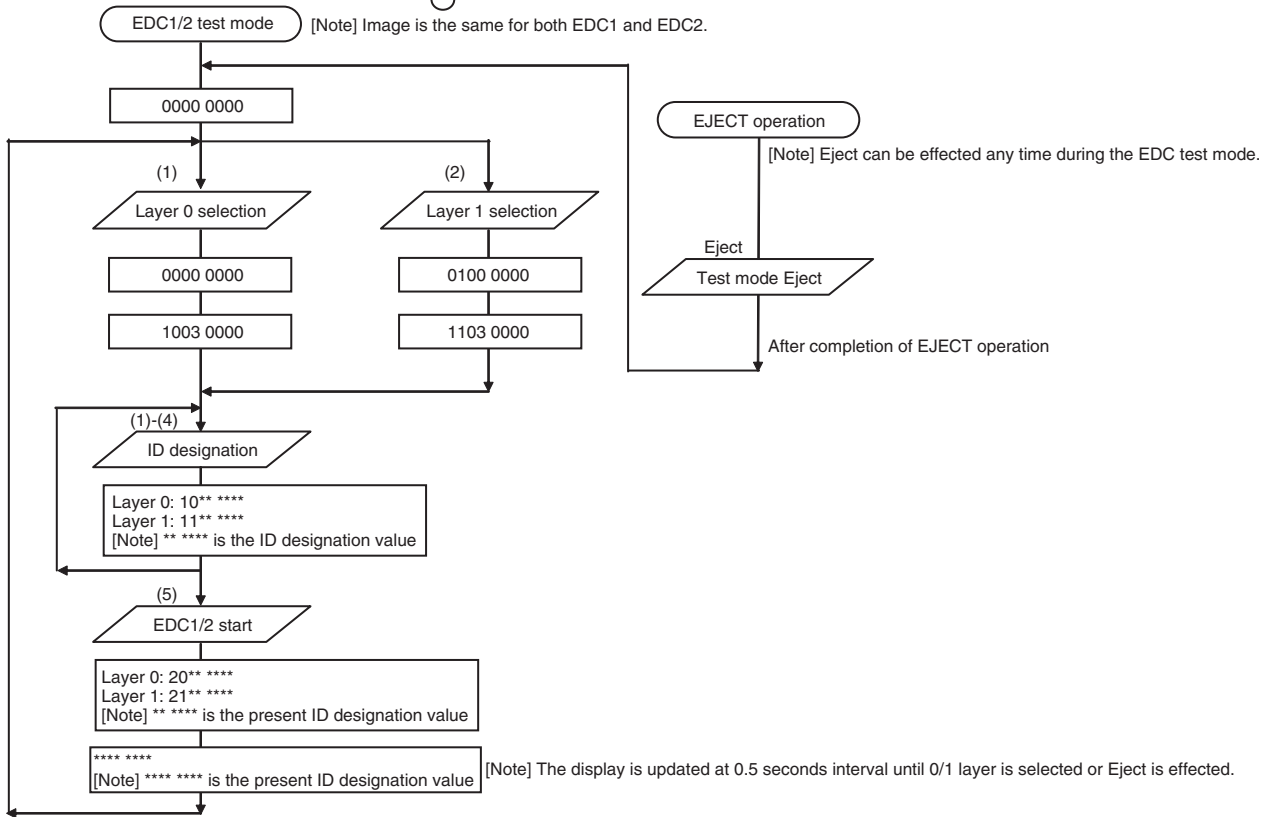
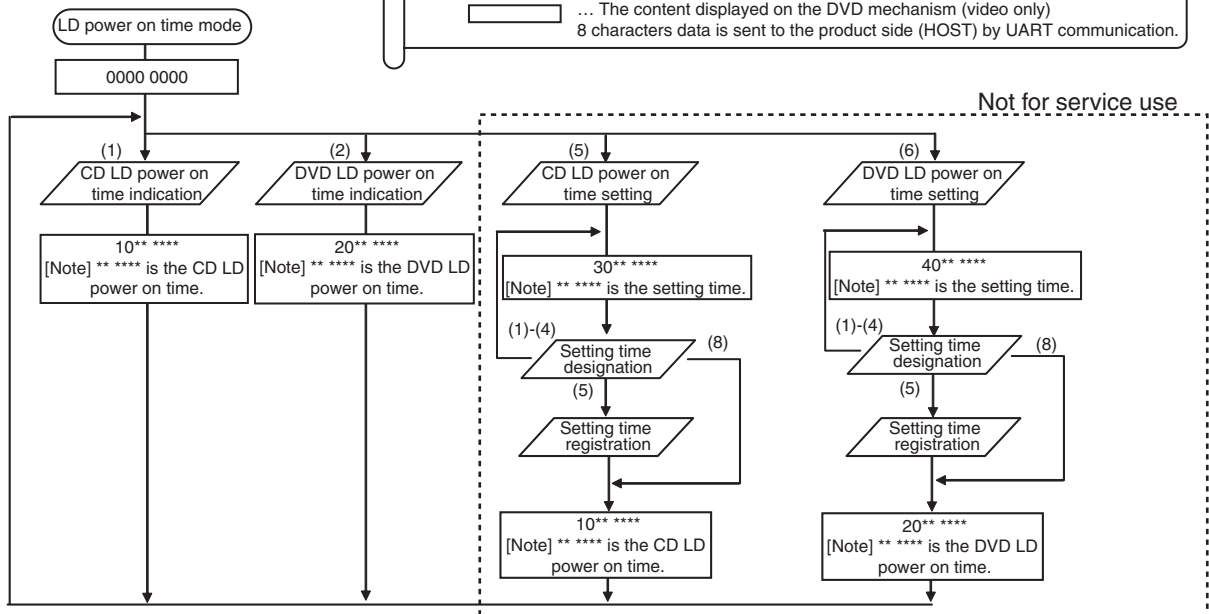


Image of the LD power on time mode.

Legend:

- ... Key operation
- ... Operational state
- ... The content displayed on the DVD mechanism (video only)
8 characters data is sent to the product side (HOST) by UART communication.



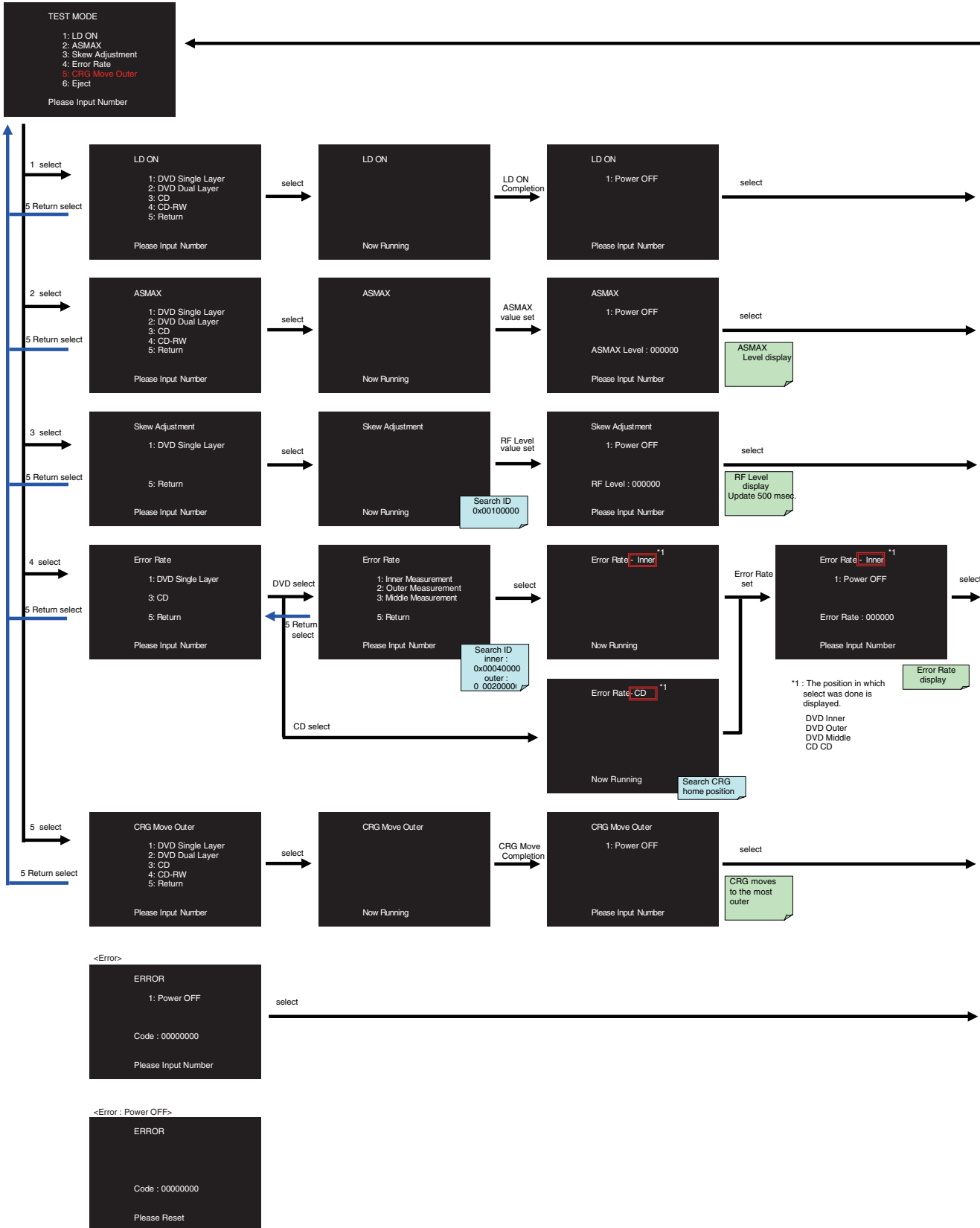
[Method of setting time designation]
Designate the digit by command (1) and (2). UP/DOWN of numbers by command (3) and (4).
Fix by command (5). Cancel by command (8).

[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.

● Removing the Monitor Assy (Fig.1, 2, 3)

➔ 1 Draw out the Monitor Assy and then remove the two screws. (Fig.1)

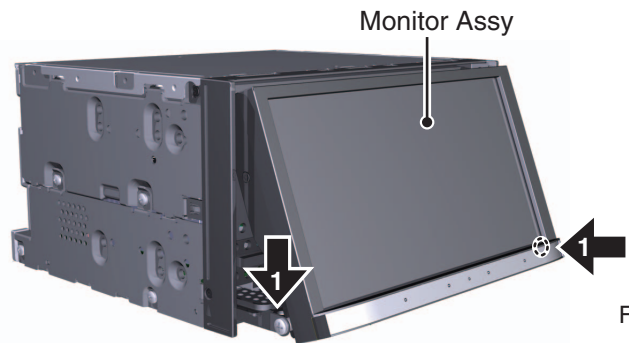


Fig.1

The main body is put on the stand of the height of about 3 cm. (Fig.2)
(If three CD cases are piled up, it becomes the stand of the even number degree.)

➔ 2 Bring down the Monitor Assy forward, remove it. (Fig.2)

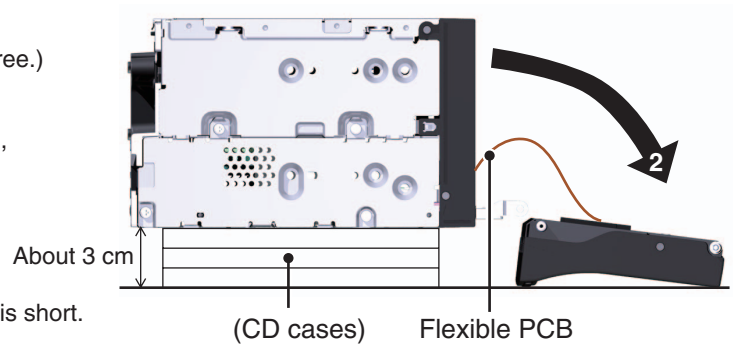


Fig.2

When Monitor Assy is removed, it is noted that the length of the Flexible PCB is short.

➔ 3 Remove the two screws and then remove Holder. (Fig.3)

➔ 4 Disconnect the Flexible PCB from the connector. (Fig.3)

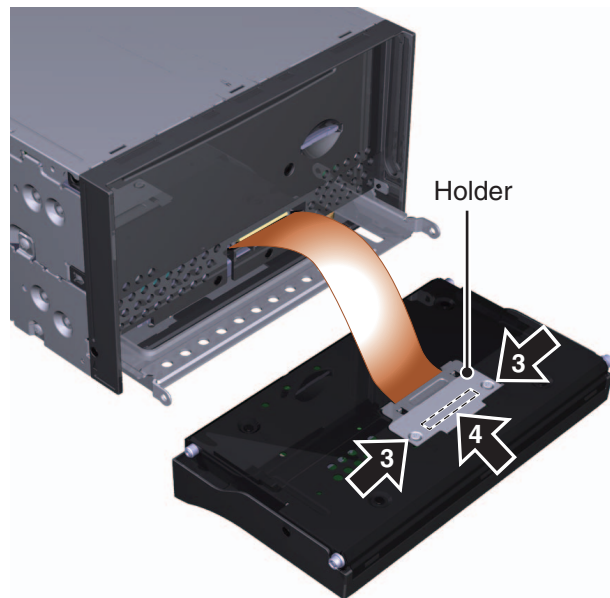


Fig.3

● **Removing the Case Unit (Fig.4)**

➔ 1 Remove the six screws.

➔ 2 Remove the four hooks and then remove the Case Unit.

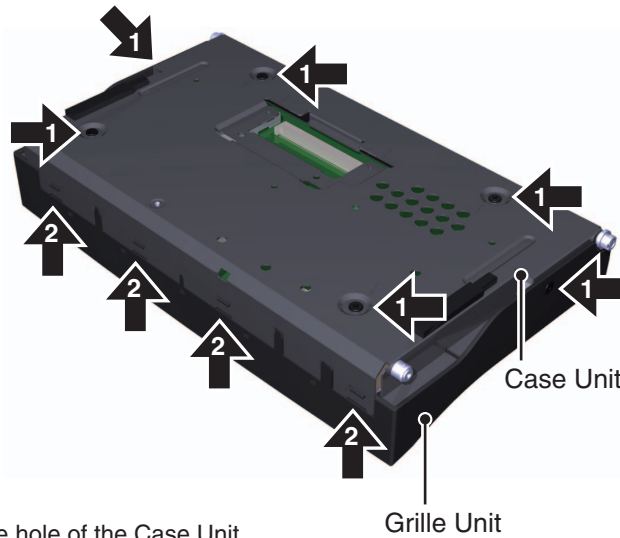


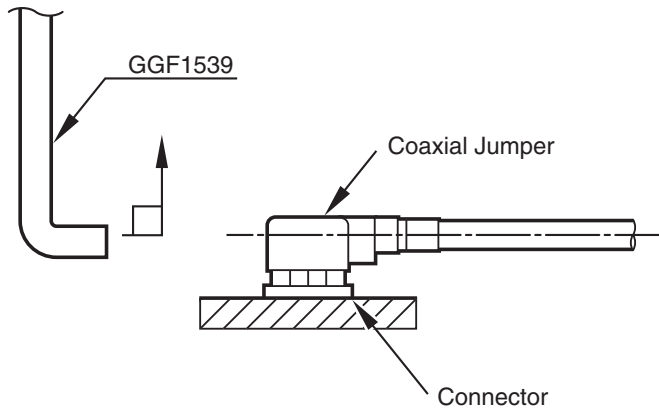
Fig.4

Note)
When the Case Unit is not removed easily,
Remove by pushing the hook of the Grille Unit from the hole of the Case Unit.
Do not damage the Grille Unit.

When unplugging the Coaxial Jumper, make sure to use jig GGF1539.
If the antenna cable is directly unplugged without using jig GGF1539, you might damage your fingertip or fingernail.

● **How to Remove the Coaxial Jumper**

When unplugging Coaxial Jumper, hook the point of jig GGF1539 on the lid of Coaxial Jumper and vertically draw out along with the engagement axis of connector.



● **How to Attach the Coaxial Jumper**

For inserting Coaxial Jumper, adjust cord assy with the engagement axis of connector and insert it as vertically as possible.
Do not insert the Coaxial Jumper in extreme slant, as the connector might suffer damage.

● Removing the Monitor Unit(Fig.5)

➔ 1 Disconnect the Cord Assy using GGF1539.

Attention at assembly)
The BT Module connects in the upper connector and the Cord Assy for antenna connects in the under connector.

➔ 2 Disconnect the two cables and then remove the Grille Unit.

➔ 3 Disconnect the two cables.

➔ 4 Remove the five screws and then remove Monitor Unit.

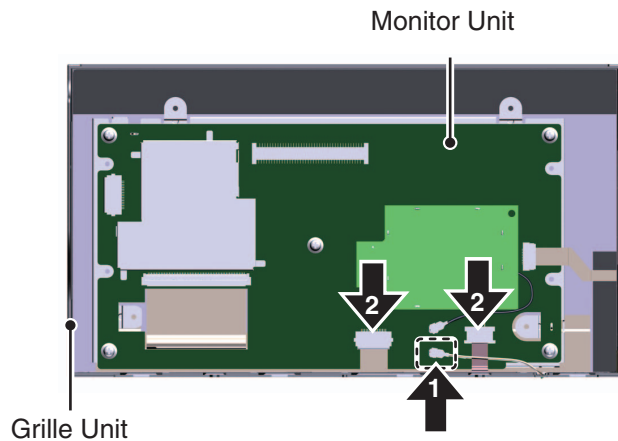


Fig.5

● Removing the Keyboard Unit (Fig.6, 7)

➔ 1 The flat screwdriver is hung and the Keyboard Unit removes.(Fig.6)



Fig.6

Attention when the Keyboard Unit are exchanged.(Fig.7)

○ Refer to figure for how to bend the Cable.

○ Notes after exchanges.

The following items after the Keyboard Unit are exchanged are checked.

- Lighting confirmation of all LED
- All switch operation confirmations
- Connected confirmation of Bluetooth

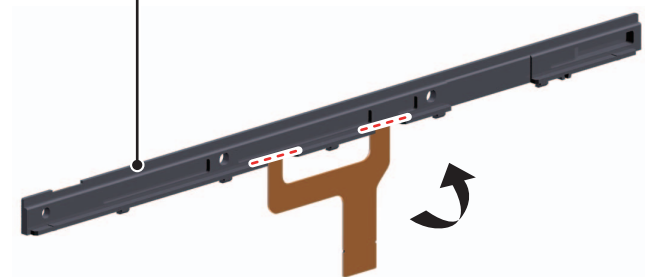


Fig.7

- Bend the cable of a broken line part.
- Don't bend it while rubbing right and left.

● Removing the Case (Fig.8)

A

Remove the Case.

Remove the hook of the Case in order of figure.

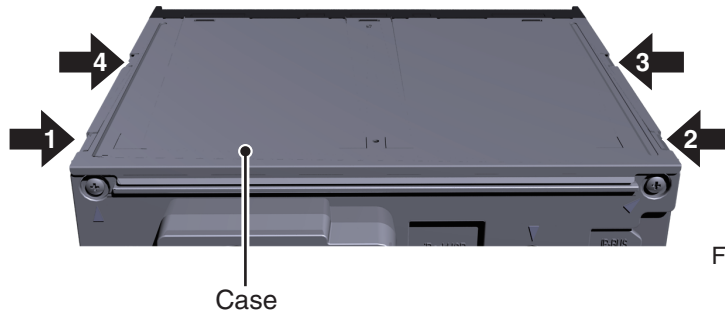


Fig.8

● Removing the Panel Unit (Fig.9, 10)

B

➔ 1 Remove the screw and then remove the Holder.(Fig.9)

➔ 2 The Flexible PCB is removed from the projection two places. (Fig.9)

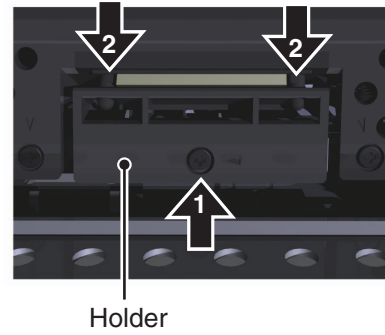


Fig.9

C

➔ 3 Remove the six screws.(Fig.10)

➔ 4 Remove the two hooks and then remove Panel Unit.(Fig.10)

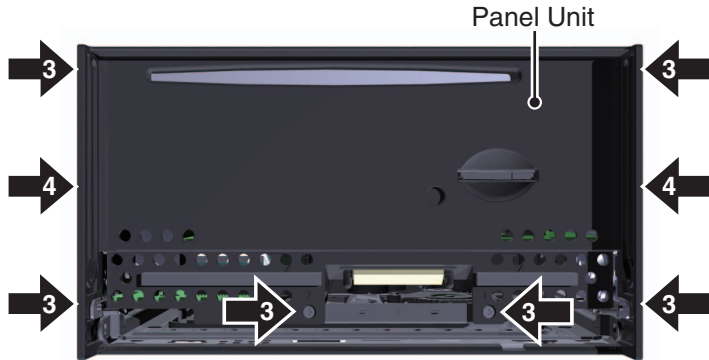


Fig.10

D

● Removing the DVD Mechanism Module (Fig.11)

➔ 1 Remove the four screws.

➔ 2 Disconnect the FFC and then remove the DVD Mechanism Module.

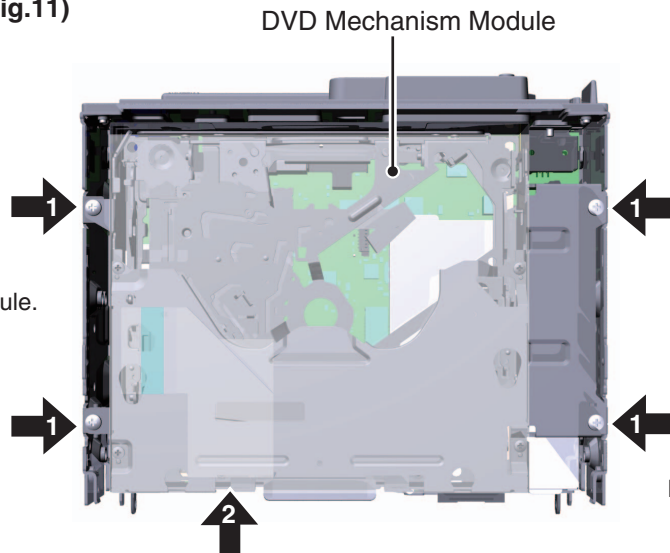


Fig.11

E

F

● Removing the Heat Sink (Fig.12)

- ➔ 1 Disconnect the FAN Cable.
- ➔ 2 Remove the two screws.
- ➔ 3 Remove the eight screws and then remove the Heat Sink.

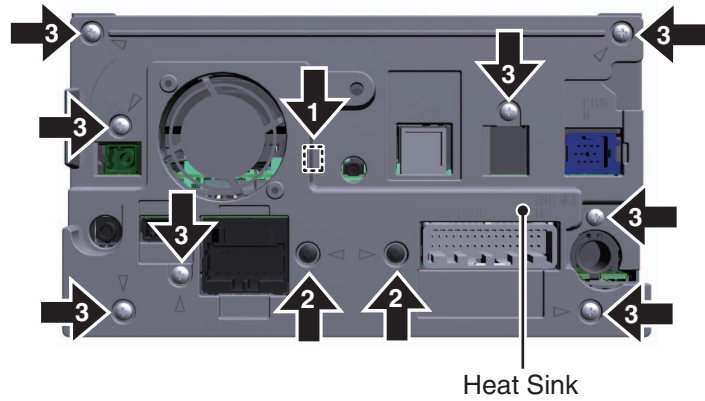


Fig.12

● Removing the Upper and Lower Chassis (Fig.13, 14)

- ➔ 1 Disconnect the FFC.(Fig.13)
Attention at assembly)
Doesn't make a mistake in the direction.
FFC gets on the capacitor.
There is not a terminal peeling off.

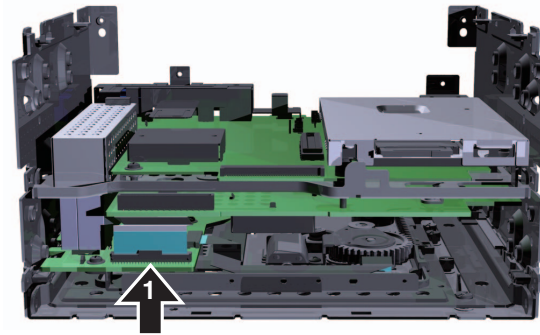


Fig.13

- ➔ 2 Remove the five screws and then remove the Upper and Lower Chassis.(Fig.14)

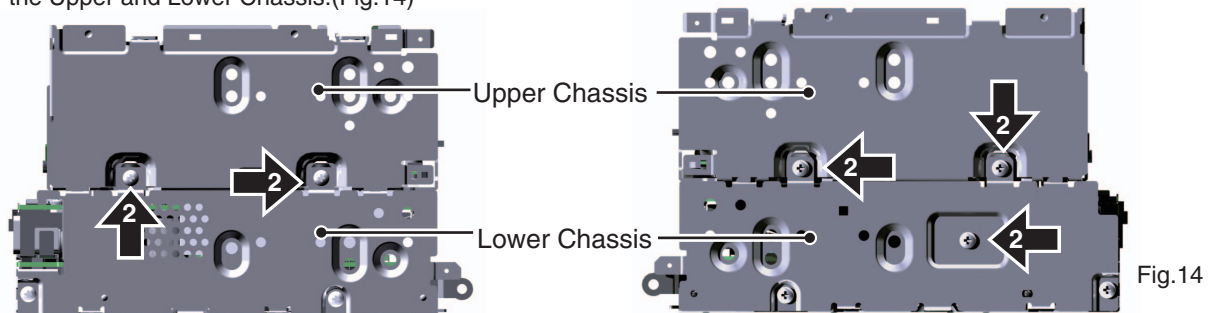


Fig.14

● Removing the Audio Unit (Fig.15)

- ➔ 1 Remove the five screws and then remove the Audio Unit.

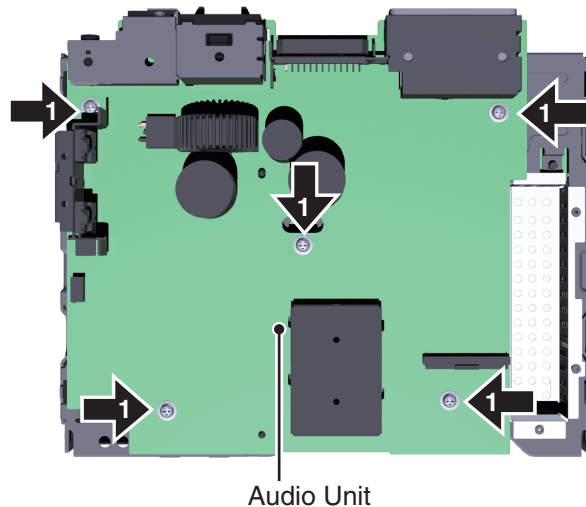


Fig.15

● Removing the CC Unit (Fig.16, 17)

A

- ➔ 1 Disconnect the Cord Assy using GGF1539.(Fig.16)

Remove the Shield.(Fig.16)

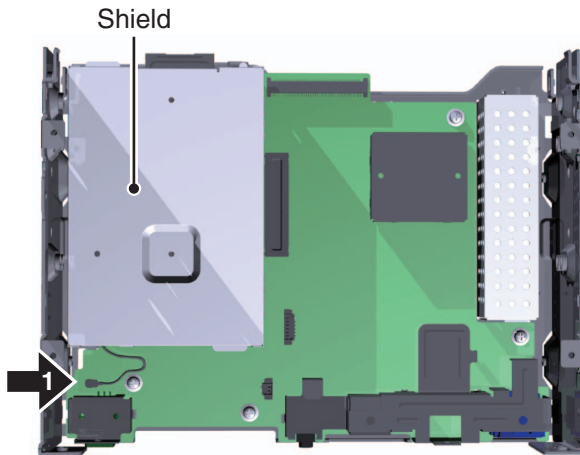


Fig.16

B

- ➔ 2 Remove the four screws and then remove the CC Unit.(Fig.17)

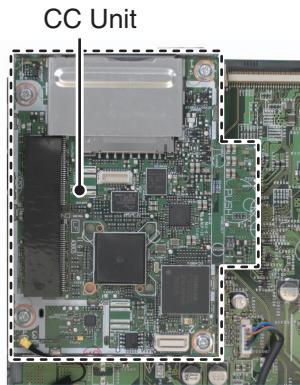


Fig.17

C

● Removing the Navi Unit (Fig.18)

D

- ➔ 1 Remove the six screws and then remove the Navi Unit.

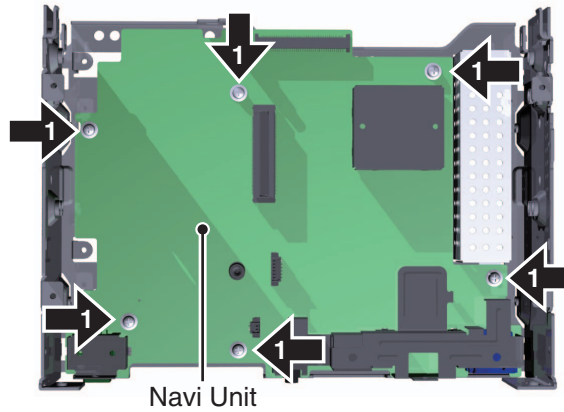


Fig.18

E

● Removing the Tuner IF Unit (Fig.19)

E

- ➔ 1 Disconnect the FFC.(Fig.13)

- ➔ 2 Remove the three screws and then remove the Tuner IF Unit.

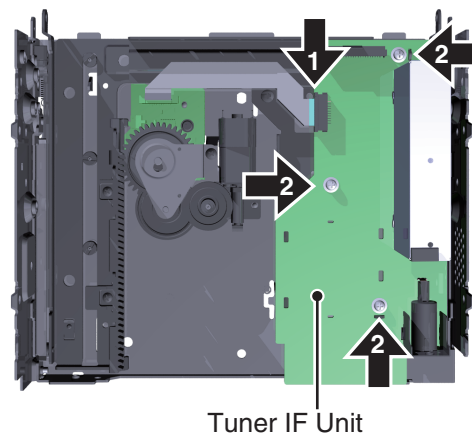
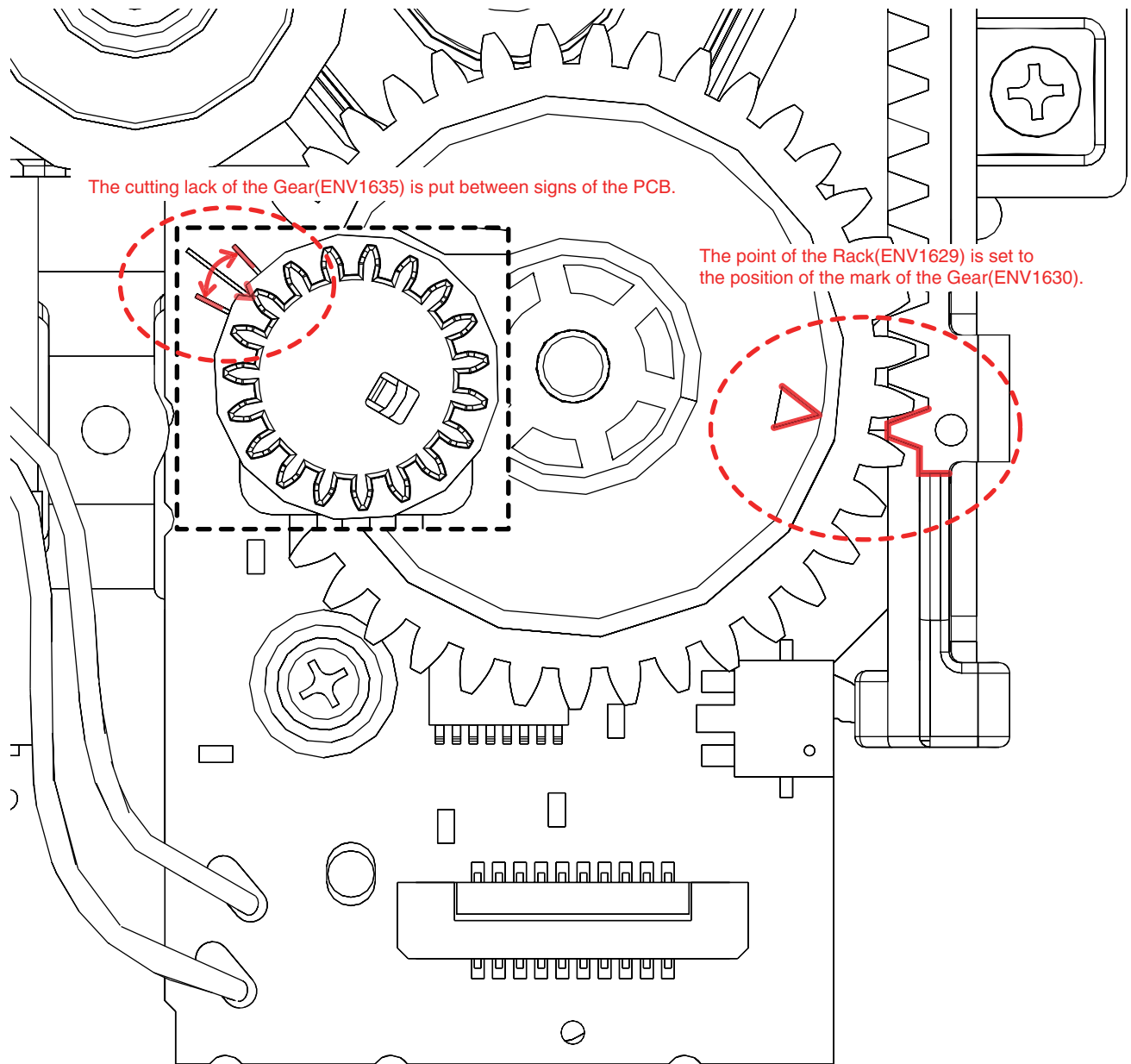


Fig.19

F

<<Drive Unit Gear set position>>



Confirm method

1. The Test mode is started.
2. "34. Mecha Close Position Confirmation" is selected.
3. It is confirmed that check results are "OK".
Please set position of the gear again for "NG".

Attention at assembly

A

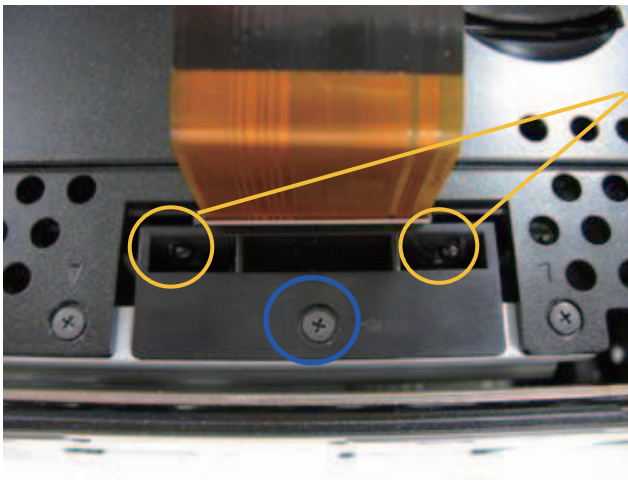


The cover is diagonally set as shown in figure. FPC is moved to the direction of the arrow like this state, the hole of the monitor case and the hole of FPC are put together, and the cover is fixed.

Monitor case

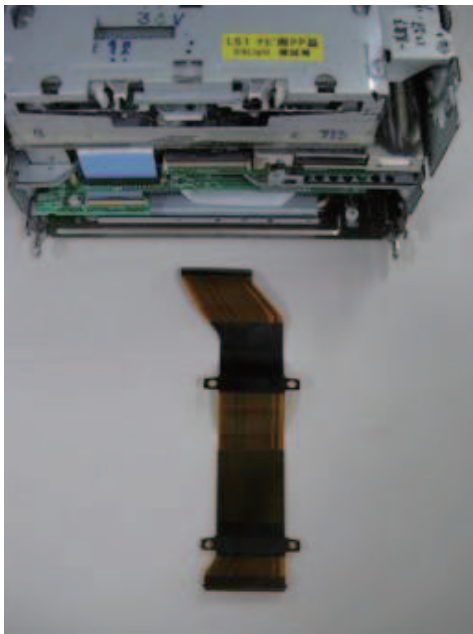
B

C



Don't catch FPC in the holder.

D

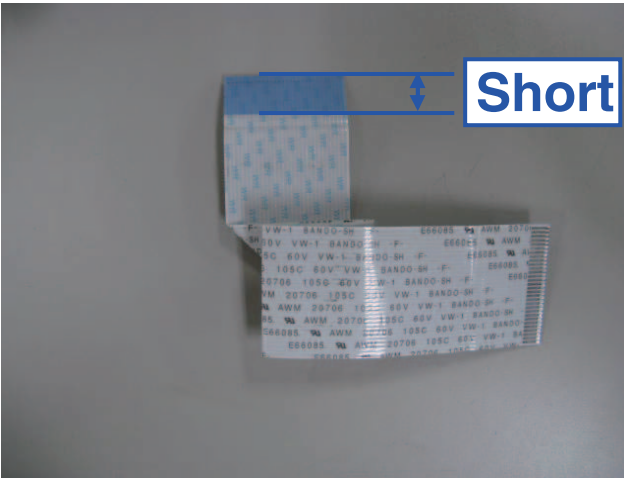


FPC is attached in the direction of figure.

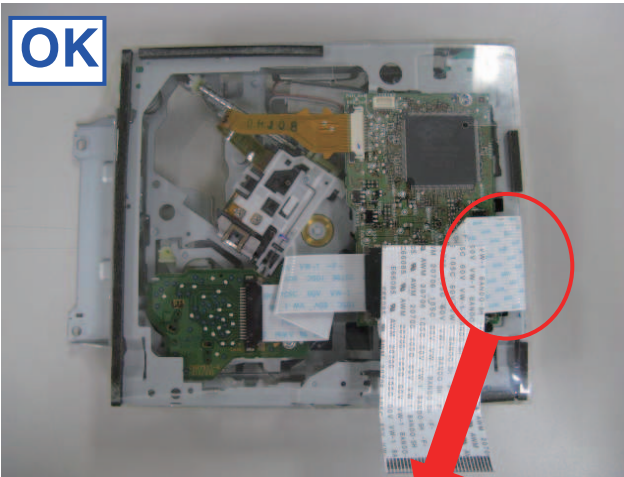
E

F

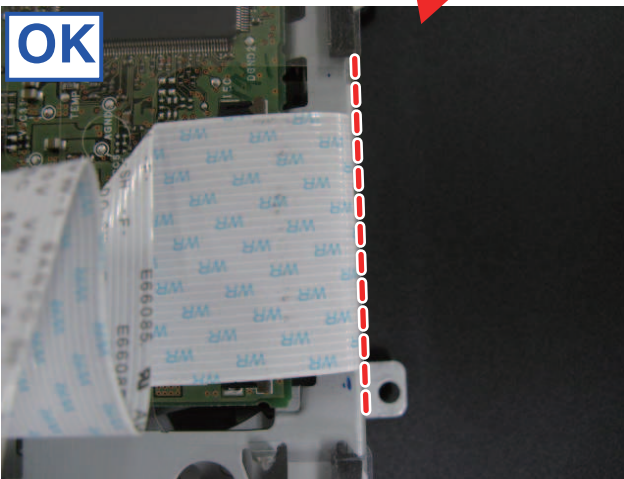
Attention at assembly of DVD Mechanism Module (LS1)



FFC is positioned that reinforcement plate is short on the mechanism side.

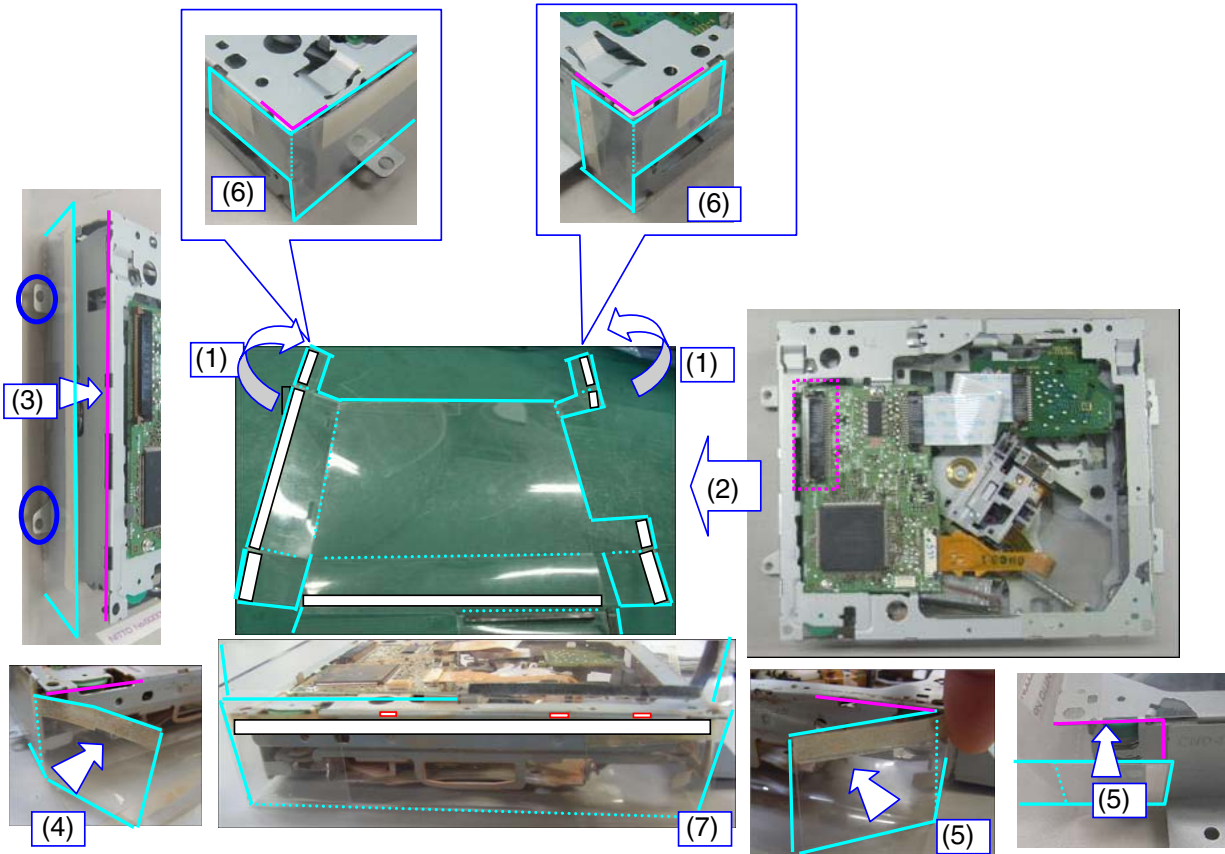


FFC doesn't protrude beyond the main body of mechanism.



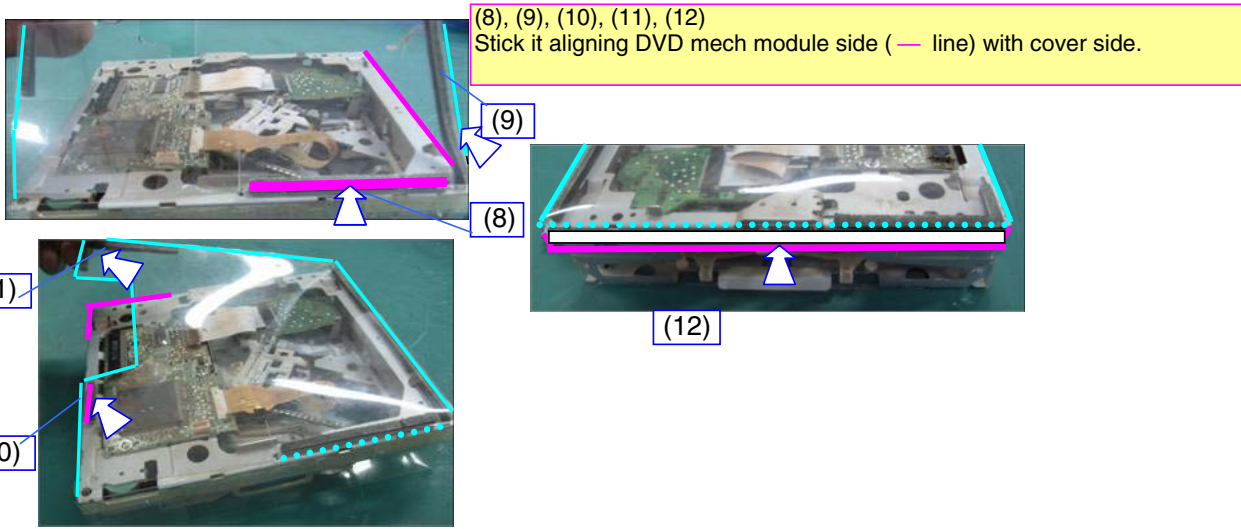
<< How to put insulator of DVD Mechanism Module (LS1) >>

A



- Use an ionizer when you stick the cover.
- (1) Fold insulator softly. And peeled off separators on the tape afterwards (order not specified).
- (2) Put the 2 hooks of DVD mech module through the cover (○ marks).
- (3) Stick it aligning DVD mech module side (— line) with cover side.
- (4), (5), (6) Stick insulator aside to corner (— line).
- (7) Sets it to the position under the hole (□ line=hole of chassis) and stick it.

D



- (8), (9), (10), (11), (12) Stick it aligning DVD mech module side (— line) with cover side.

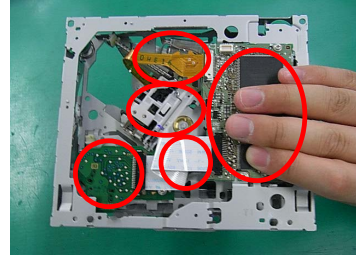
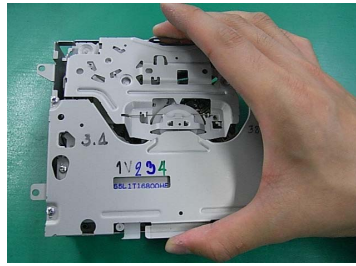
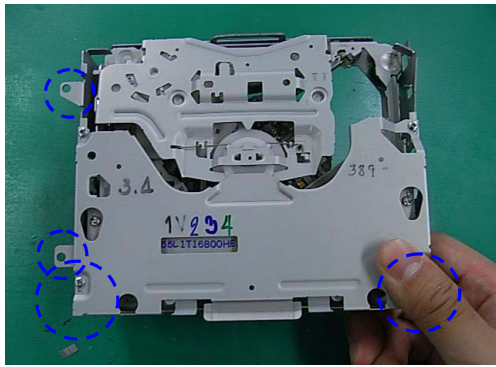
E

F

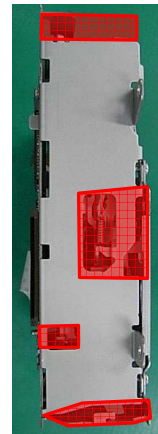
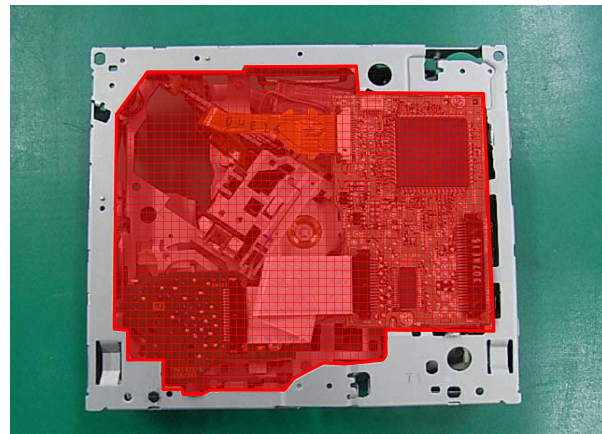
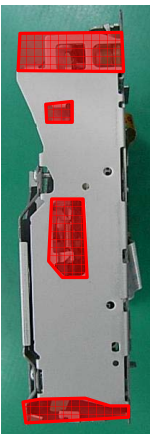
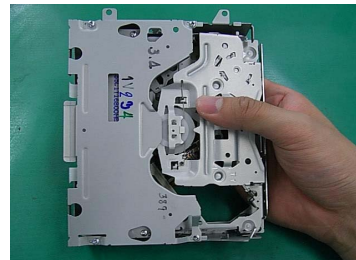
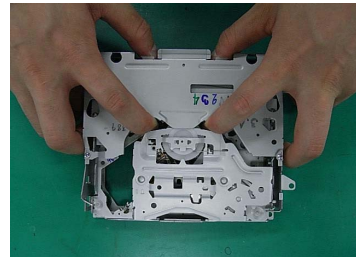
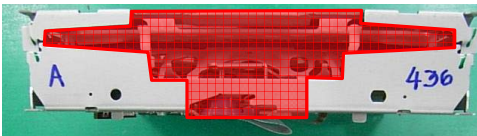
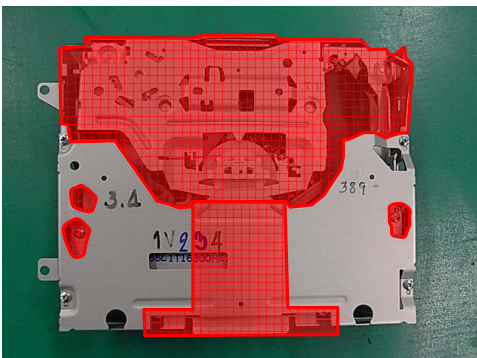
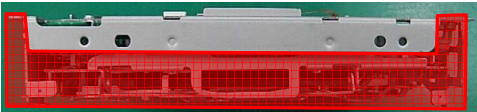
How to have it

1. Have a specified part.

Handling OK

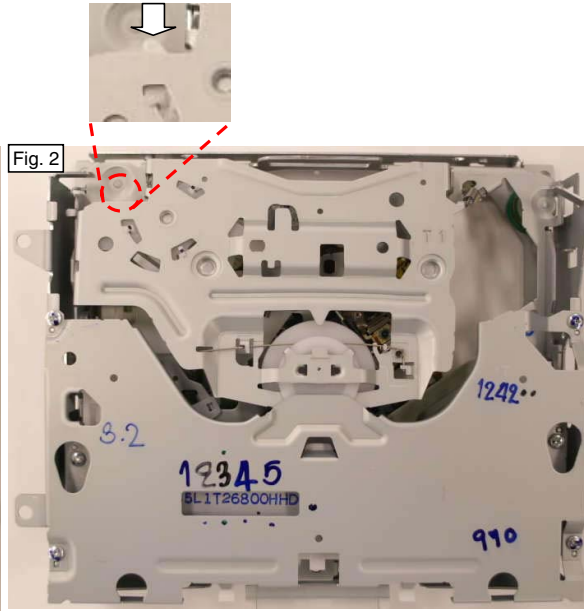
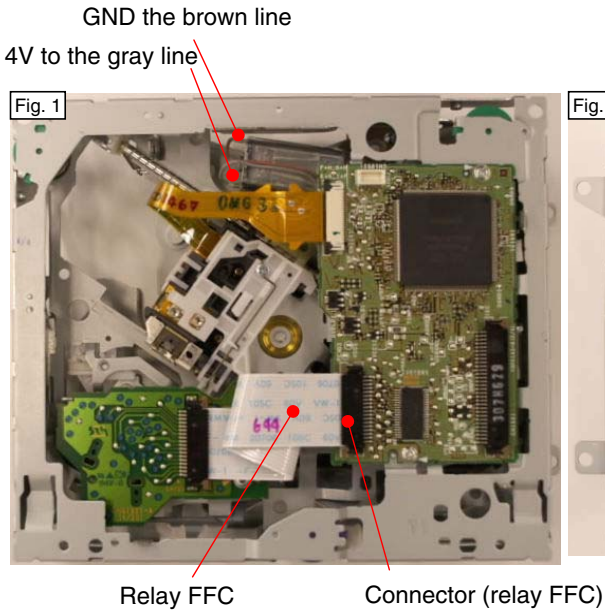


Handling NG



Mecha Module Bringing into the Clamp State with No Disc Loaded

1. Remove the relay FFC from the connector on the module PCB side (Fig. 1).
 (Precaution) When it is difficult to apply 4V to the motor in procedure 2 below, remove the connector on the relay PCB side, then remove the FFC, and remove the solder of the CRG motor lead and apply voltage to the lead.
2. Push the Disc detection arm while applying 4V to the CRG motor (Fig. 2)
 By this action, the mecha moves to the clamp state and the PU moves to the outer periphery.
3. Stop the motor when the PU comes to the vicinity of the intermediate periphery.
 (Precaution) If the PU goes to the outer most periphery, it idles.
 It is not a problem, but please try not to let it idle as much as possible.



CRG Mecha_Bringing into the Clamp State with No Disc Loaded

- 1.Remove the T-case washer and then remove the drive gear. (Fig. 1)
- 2.Lift the clamp arm assy until it is in the state shown in Fig. 2_b (open-lock state).
- 3.Put your finger on the area A of Fig. 2_c and then slide it to the direction of the arrow (the direction of the playing state).
- 4.Push down the clamp arm.

(Precaution) When bringing the CRG mecha into the ejecting state again, install the drive gear after sliding the drive lever and bringing it to the ejecting state, in order to prevent the cog of the pinion in the drive gear from chipping at the time of its installation.

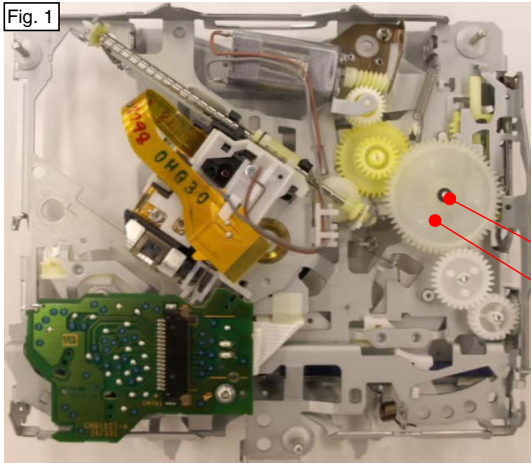
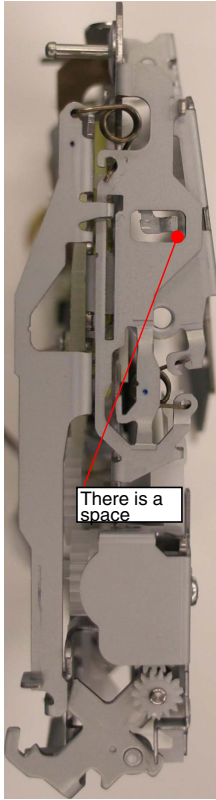
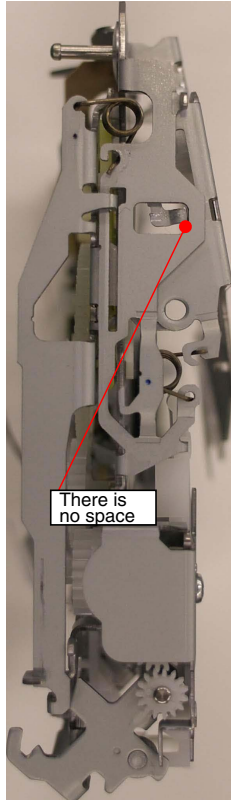


Fig. 2

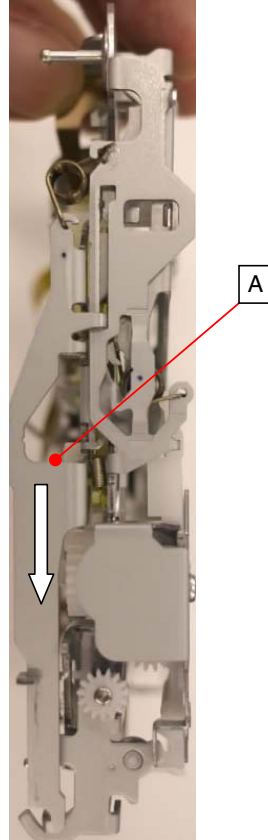
a. Ejecting state



b. Open-lock state

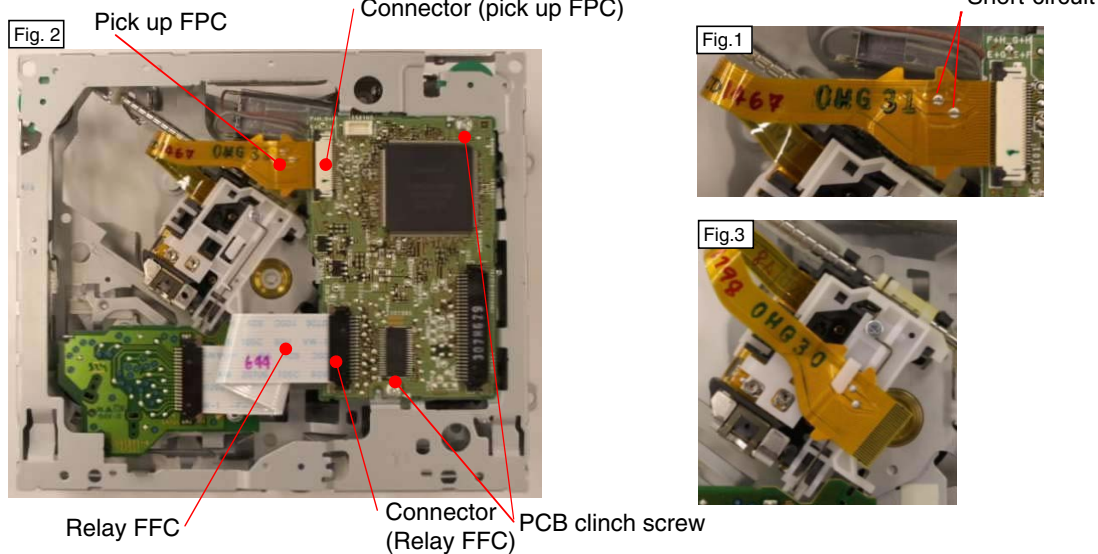


c. Clamp state with no disc loaded



Removing the Module PCB

- 1.Short-circuit two spots on the land of the pick up FPC. (Fig. 1)
- 2.Remove the pick up FPC and the relay FFC from the connector. (Fig. 2)
- 3.Temporarily attach the pick up FPC to the pick up rack. (Fig. 3)
(in order to prevent the damage to the pick up FPC)
- 4.Remove the two PCB clinch screws and then remove the module PCB. (Fig. 2)



Removing/Installing the Relay PCB

Removing)

- 1.Remove the relay FFC from the connector
(remove both sides so that the entire FFC will be removed). (Fig. 2)
- 2.Remove the solder on the lead for the CRG motor. (Fig. 4)
- 3.Remove the one relay PCB clinch screw. (Fig. 4)
- 4.Slide the relay PCB to the direction of the arrow and then remove the relay PCB from the hook A and the hook B. (Fig. 4)
- 5.Turn the relay PCB over and then remove the SPDL motor FFC from the connector.

Installing)

- 1.Check the mecha is in the ejecting state (disc-load suspended state).
When it is not in the ejecting state, apply 4V to the lead (motor) and then bring it to the ejecting state (4V to the brown line and GND the gray line).
- 2.Fit the SPDL motor FFC to the connector (back of the relay PCB).
- 3.Hold the relay PCB so that it does not touch the SW knob as in Fig. 5.
- 4.Insert it into the hook B as it is a little off to the clockwise direction.
(Precaution) This is to prevent the SW knob from getting into the NG position as in Fig. 6.
- 5.Push down the relay PCB lightly and then rotate it to the counterclockwise direction.
It sets the relay PCB in the hook A and the positioning dowel.
(Precaution) Pay attention so the SW knob will not get onto the PU rack. (Fig. 6)
- 6.As in the Figures, while supporting the location A with your fingers, screw the relay PCB. (Fig. 7 / Fig. 8)
- 7.Solder the lead for the CRG motor.
- 8.Fit the relay FFC to the connector.

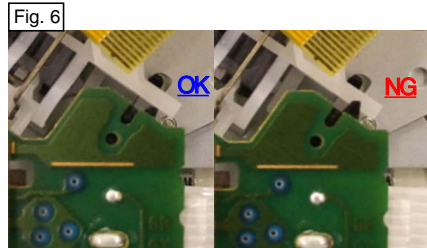
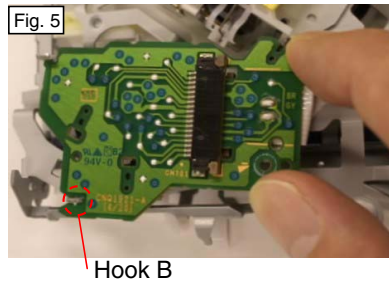
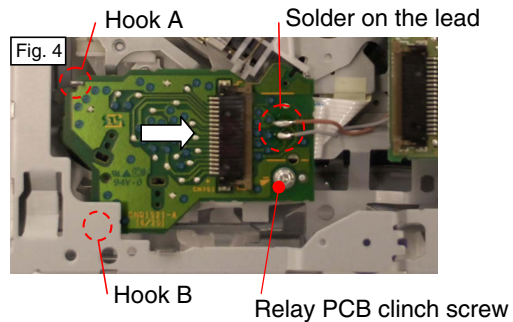


Fig. 7

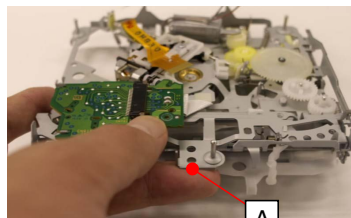
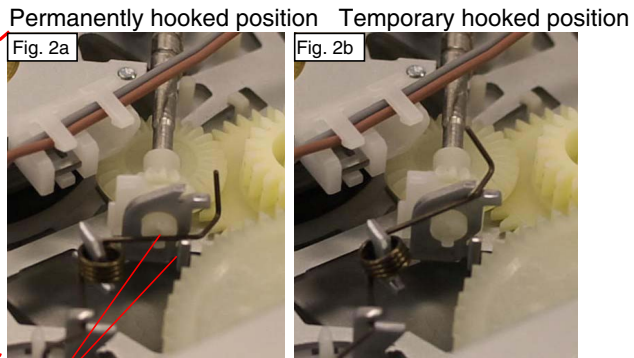
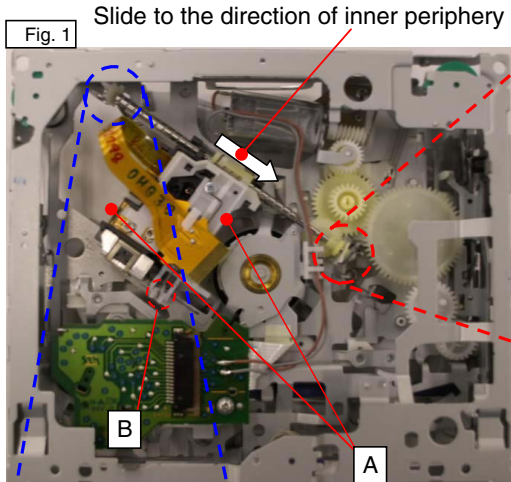


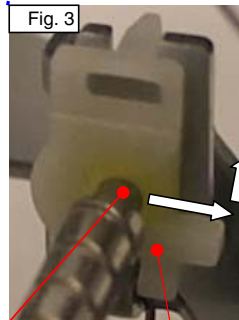
Fig. 8

Removing the PU Unit

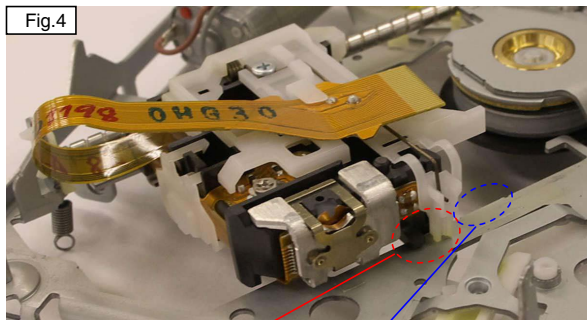
1. Hook the feed screw biasing spring on the temporary hook (Fig. 2b). Be careful not to get injured by the tip of the spring.
2. Hold the PU at the location A in Fig. 1 and slide and scoot it to the direction of the inner periphery.
3. As in Fig. 3, shift the back end of the feed screw to the side and then to above and remove it from the outside holder.
4. Remove the tucking joint for the chassis at the location B and the PU unit by lifting them up without changing their position and then remove the PU unit.
(Precaution) When installing the PU again, make sure to tuck the chassis in B and the PU unit (Fig. 4) first. Moreover, do not forget to permanently hook the feed screw biasing spring (Fig. 2a). Adjustments to the PU after its installation should be made according to the service manual.



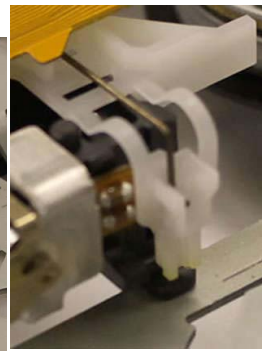
The spring is installed under the resin flange and inside the bended metal plate.



Back end of the feed screw Outside holder



Regularly installed position Install avoiding the area with blue broken line (the connected metal plate part)



[Installation NG] The chassis is not tucked between the PU case and the PU rack.

Sending the PU to the outer periphery

1. Bring to the clamp state with no disc loaded according to the "Mecha Module_Bringing into the Clamp State with No Disc Loaded" manual.
(Precaution) The relay FFC must be removed for certainty in order to prevent the IC damage.
2. Apply 1.5V to the CRG motor and then transfer the PU to the outer periphery.
(Precaution) Do not forget to reinstall the relay FFC after sending the PU to the outer periphery and take the necessary measures.

8. EACH SETTING AND ADJUSTMENT

8.1 DVD ADJUSTMENT



1) Precautions

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.
- Laser diodes may be damaged, if the volume switch for the laser power adjustment of the pick up unit, is turned.

● SKEW adjustment

When one of the following replacements has taken place, SKEW adjustment for the pick up will be required.

- (1) Replacement of the pick up unit
- (2) Replacement of the spindle motor
- (3) Replacement of the carriage chassis
- (4) Replacement of the main shaft of the pick up unit

Measurement equipment and tools/jigs: Oscilloscope

Driver for SKEW adjustment -> Driver

Bond for fixing the SKEW -> GEM1033

Bond for resonance -> 1530 (1530 : produced by THREE BOND)

Bond for locking the screw -> 1401M (1401M : produced by THREE BOND)

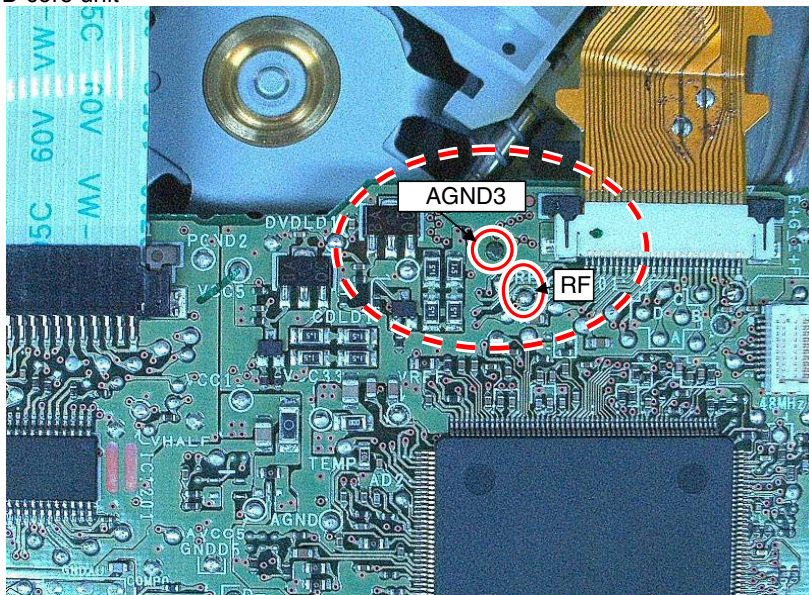
Disc used:GGV1025

Measurement reference: AGND3

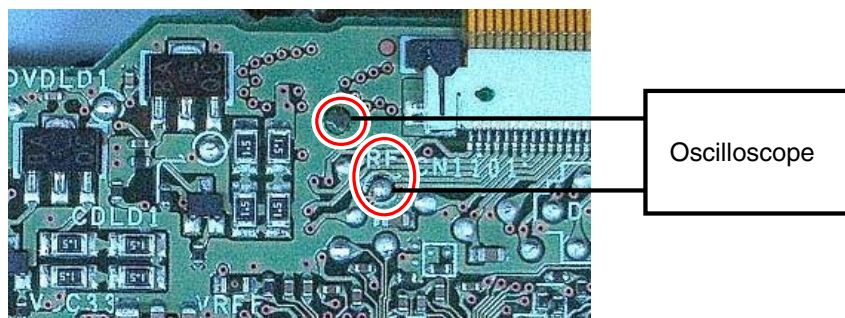
Measurement point: RF

Connection drawing

DVD core unit



Expansion



Symptom in case the adjustment is not adequate: Worsening of the error rate 10^{-3}
 (Normally 10^{-4} or less.)
 Large RF jitter
 RF waveform distortion
 Tracking drawing/Unstable servo

* Caution: Do not look into the laser light during adjustment.

There are two methods of making adjustment: a method of making adjustment through monitoring RF waves by the oscilloscope (method 1) and a method of making adjustment through checking the numerical value of the RF level by OSD (method 2).

Adjusting procedure is shown below, but regarding how to start the test mode and the operating procedure, please refer to the clause on the service test mode.

Adjusting Procedure:

1. Install the pickup

(Refer to the removal of the pickup from the mecha unit.)

When handling the pickup, refer to the precautions on how to handle the PU listed below.

2. Method 1:

Connect the oscilloscope according to the AGND3 standards with reference to the connection diagram so that the RF signals can be monitored.

Method 2:

The device does not need to be set. Proceed to the procedure 3.

3. Turn ON the power of the product.

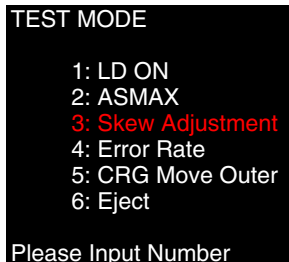
4. Start the simplified FE test mode.

(Regarding how to start the test mode and the operating procedure, refer to the clause on the service test mode.)

5. Load the disc for adjustment (GGV1025).

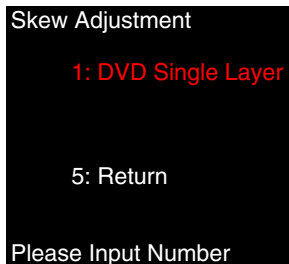
6. TEST MODE

Select "3: Skew Adjustment."



7. Skew Adjustment

Select "1: DVD Single Layer."



8. Adjust the Skew using a driver while checking the RF value.

Refer to the following pages concerning the locations to make SKEW adjustment.

Method 1:

Slightly turn the skew adjusting screw A while checking the RF wave level by the oscilloscope and make adjustment so the wave level would reach its maximum.

Next, slightly turn the skew adjusting screw B so the wave level would reach its maximum.

Slightly turn the skew adjusting screw A again so the wave level would reach its maximum.

(Make adjustment in the order of A->B->A and in the end complete adjustment by turning each screw in the clockwise direction.)

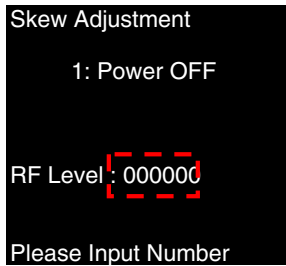
Method 2:

Slightly turn the skew adjusting screw A while checking the value of the RF level through the OSD display so the wave level would reach its maximum.

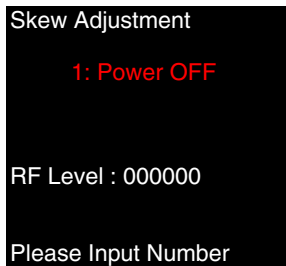
Next, slightly turn the skew adjusting screw B so the level would reach its maximum.

Slightly turn the skew adjusting screw A again so the level would reach its maximum.

(Make adjustment in the order of A->B->A and in the end complete adjustment by turning each screw in the clockwise direction.)

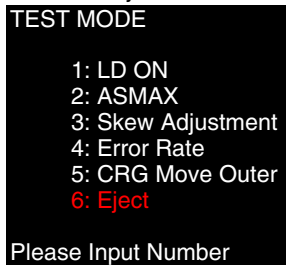


9. Skew Adjustment
Select "1: Power OFF."



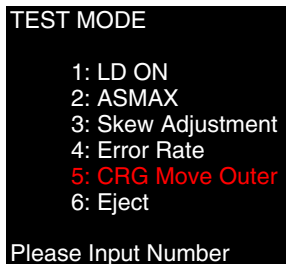
10. TEST MODE

Select "6: Eject."



11. TEST MODE

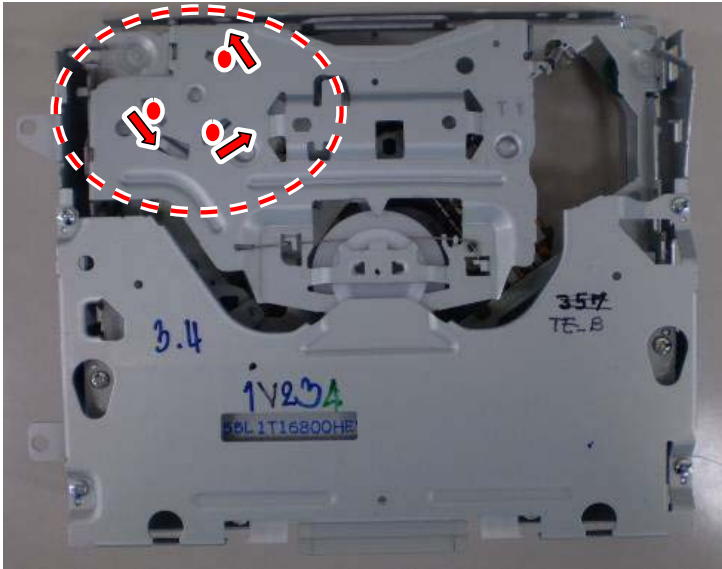
Select "5: CRG Move Outer."



12. In order to produce the clamping state with no disc loaded, slightly move the disc detection arm in the counterclockwise direction while moving the switch arms outward.



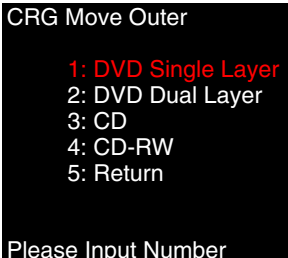
Switch arms



Disc Detection Arm

13. CRG Move Outer

Select "1: DVD Single Layer."



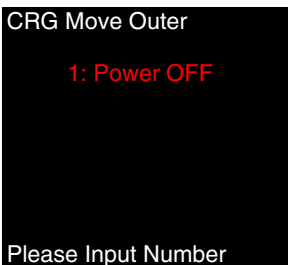
Please Input Number

The pickup moves to the outer periphery.

Apply the adhesive to fix the skew, the resonance adhesive and the screw lock. Refer to the next page regarding the locations of adhesive joining.

14. CRG Move Outer

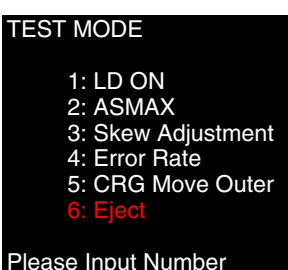
1: Power OFF



Please Input Number

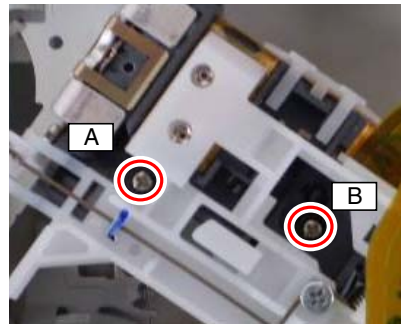
15. TEST MODE

Select "6: Eject."

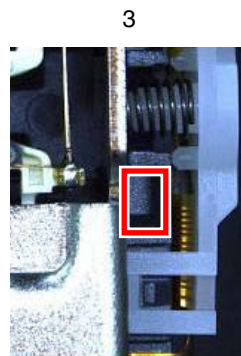
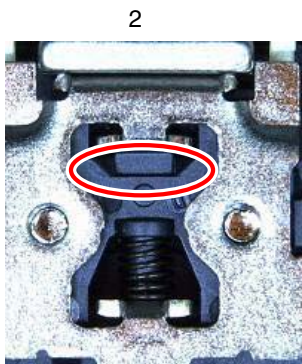
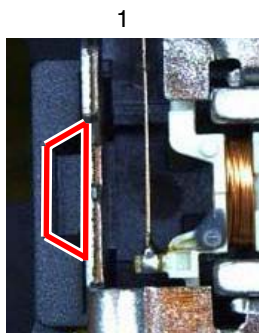
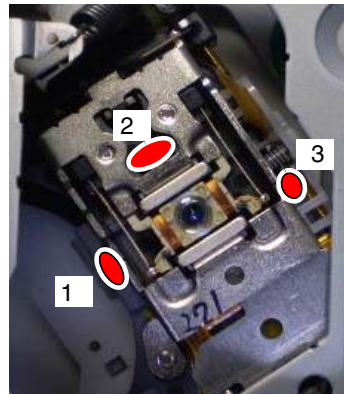


Please Input Number

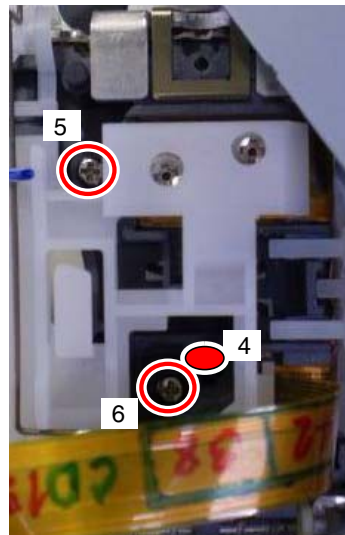
Locations to make SKEW adjustment



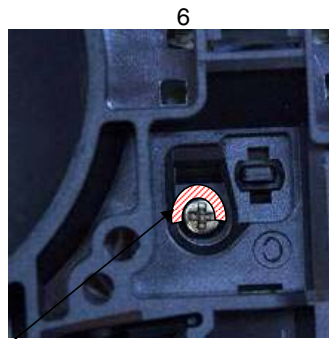
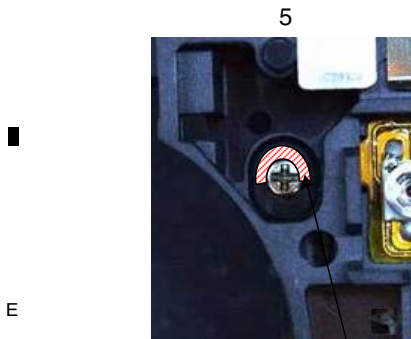
Locations to adhere the SKEW 1,2,3: GEM1033



Bond for resonance 4:Three Bond 1530



Bond for locking the screw 5,6 : Three Bond 1401M

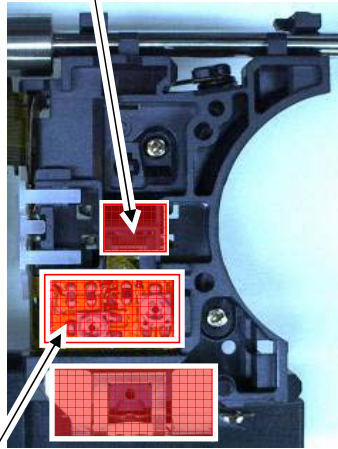


Bond for locking the screw

Precautions on handling the PU

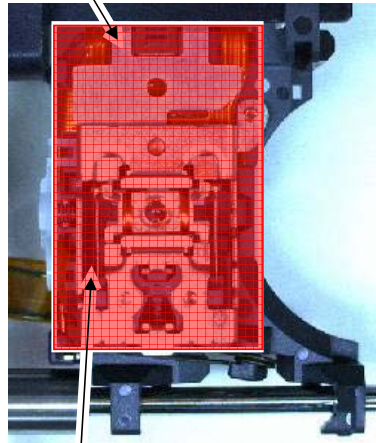
*Precaution: Do not touch those shaded areas in the following figures.

Do not touch the optical part



RF level adjusting part

Hologram (Beware of the static)



Do not touch the spring

A

B

C

D

E

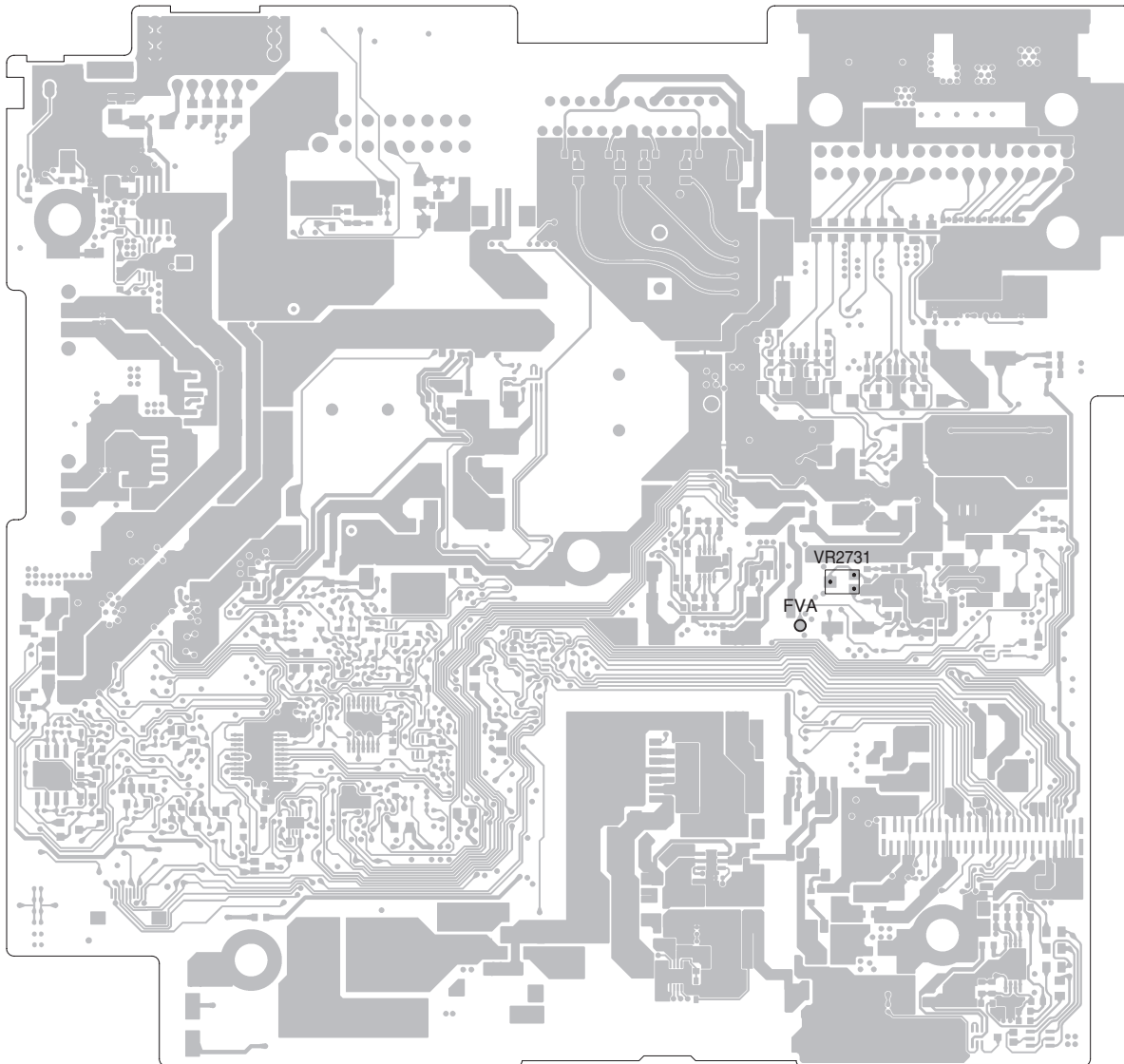
F

8.2 AUDIO UNIT ADJUSTMENT



● Adjustment point

AUDIO UNIT(SIDE A)



Adustment item	Mode	Input signal	Output signal (Measurement point, wave pattern)	Masuring instruments	Specs	Adjusting point
Front monitor picture level	DVD	GGV1025 Title3 chap3 play 100 IRE(White 100%) 1.0 Vpp	TP : FVA Refer to following ①	Oscilloscope	$0.7\text{ V} \pm 0.007\text{ Vpp}$	VR2731

①



A

B



C

D

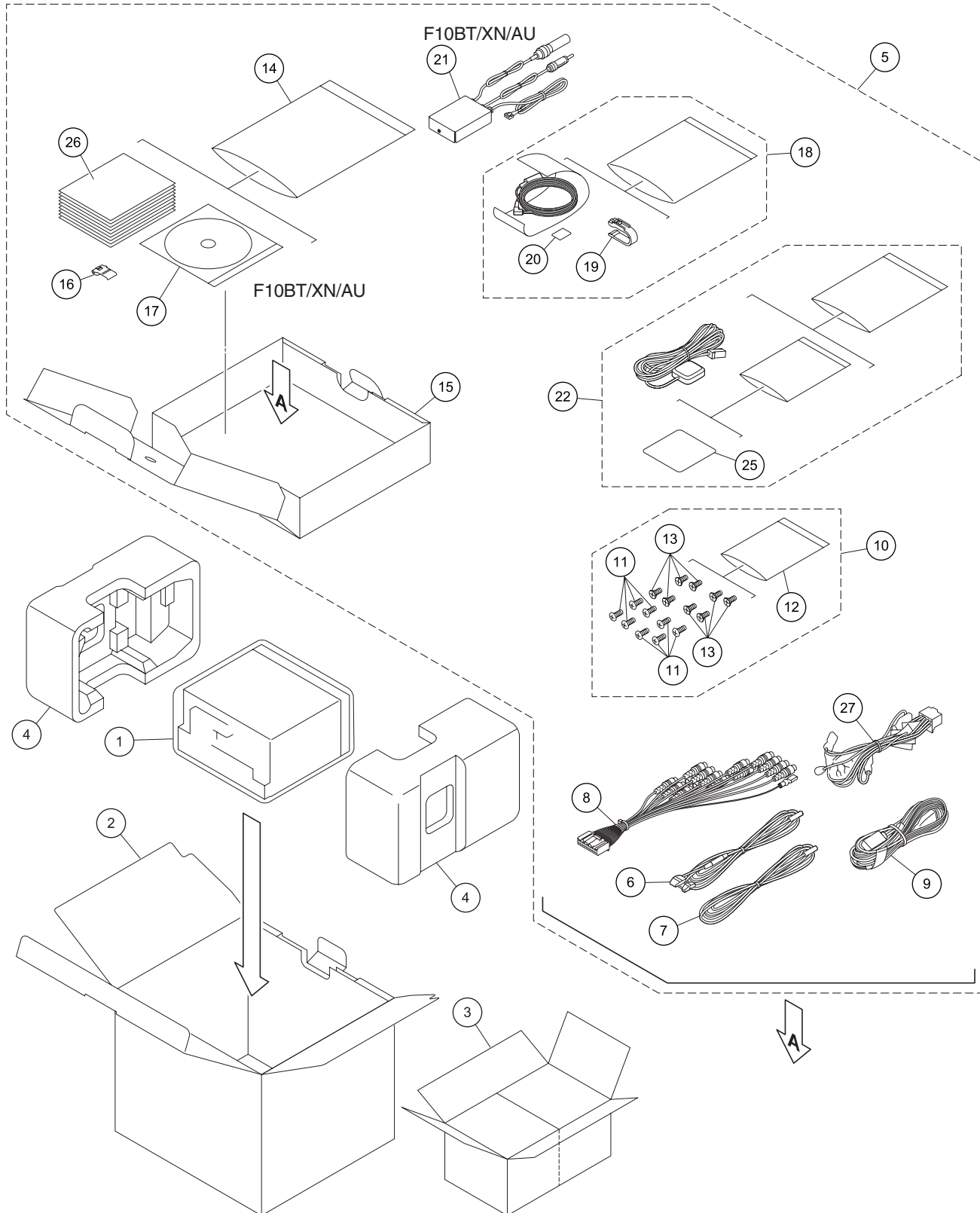
E

F

9. EXPLODED VIEWS AND PARTS LIST

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

9.1 PACKING



(1) PACKING SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Polyethylene Bag	See Contrast table (2)	* 19	Clip Holder	CZN7912
2	Unit Box	See Contrast table (2)	* 20	Cushion	CZN7913
3	Contain Box	See Contrast table (2)			
4	Protector	CHP3827	21	RDS-TMC Tuner	See Contrast table (2)
5	Sub Unit Box Assy	See Contrast table (2)	22	GPS Antenna Assy	CXE2705
			23	.....
6	Cord	CDE6825	24	.....
7	Cord	CDP1157	25	Sheet	CZN7151
8	Cord Assy	CDP1194			
9	Cord Assy	CDP1195	26-1	Owner's Manual	See Contrast table (2)
10	Screw Assy	CEA2788	26-2	Owner's Manual	See Contrast table (2)
			26-3	Quick Start Guide	See Contrast table (2)
11	Screw	BMZ50P080FTC	26-4	Quick Start Guide	See Contrast table (2)
* 12	Polyethylene Bag	CEG-127	26-5	Important Information	See Contrast table (2)
13	Screw	CMZ50P080FTC			
14	Polyethylene Bag	CEG1116	26-6	Installation Manual	See Contrast table (2)
15	Sub Unit Box	CHG6937	26-7	Caution Card	CRP1310
			26-8	Warranty Card	See Contrast table (2)
16	Connector	CKX1049	* 26-9	Registration Card	See Contrast table (2)
17	IM CD-ROM	See Contrast table (2)	27	Cord Assy	CDP1095
18	Microphone Assy	CPM1083			

(2) CONTRAST TABLE

AVIC-Z110BT/XN/UC and AVIC-F10BT/XN/AU are constructed the same except for the following:

<u>Mark</u>	<u>No.</u>	<u>Description</u>	<u>AVIC-Z110BT/XN/UC</u>	<u>AVIC-F10BT/XN/AU</u>
	1	Polyethylene Bag	CEG1359	.....
	2	Unit Box	CHG6940	CHG6942
	3	Contain Box	CHL6940	CHL6942
	5	Sub Unit Box Assy	CHX2124	CHX2127
	17	IM CD-ROM	Not used	CPJ1283
	21	RDS-TMC Tuner	Not used	CXE2176
	26-1	Owner's Manual	CRB3035	Not used
	26-2	Owner's Manual	CRB3036	Not used
	26-3	Quick Start Guide	CRB3037	CRB3056
	26-4	Quick Start Guide	CRB3038	Not used
	26-5	Important Information	Not used	CRB3057
	26-6	Installation Manual	CRD4418	CRB3058
*	26-8	Warranty Card	CRY1246	Not used
*	26-9	Registration Card	CRY1271	Not used

Owner's Manual, Installation Manual

<u>Part No.</u>	<u>Language</u>
CRB3035 (UC)	English
CRB3036 (UC)	French
CRB3037 (UC)	English
CRB3038 (UC)	French
CRD4418 (UC)	English, French
CRB3056 (AU)	English
CRB3057 (AU)	English
CRB3058 (AU)	English

CONTENTS OF CD-ROM (Operation Manual), CPJ1283

<u>Part No.</u>	<u>Language</u>
* CRB3051 (UC)	English
* CRB3052 (UC)	Russian
* CRB3055 (AU)	English

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.

9.2 EXTERIOR(1)

A

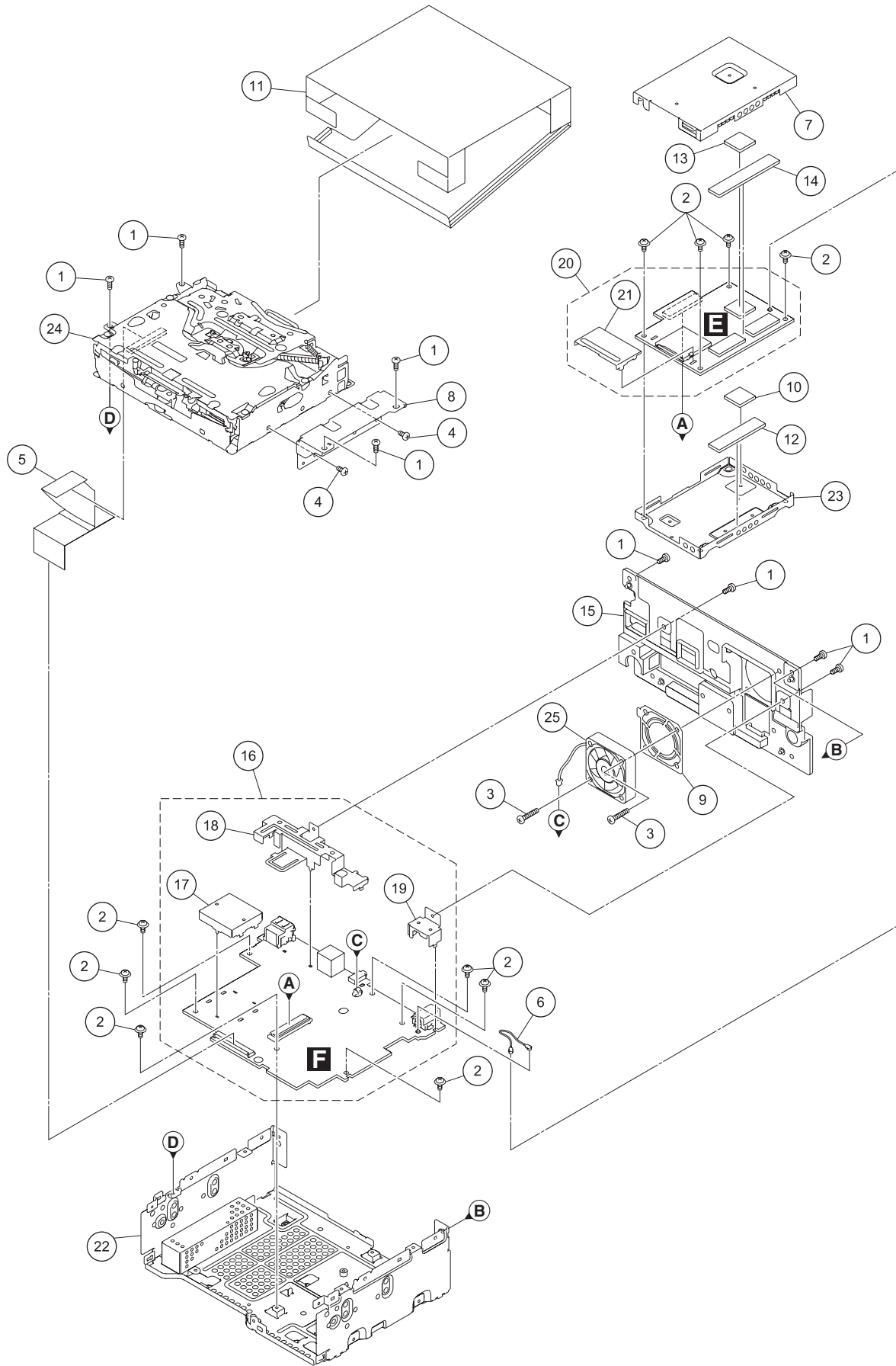
B

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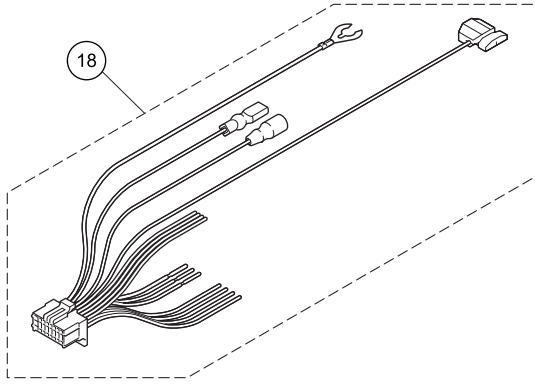
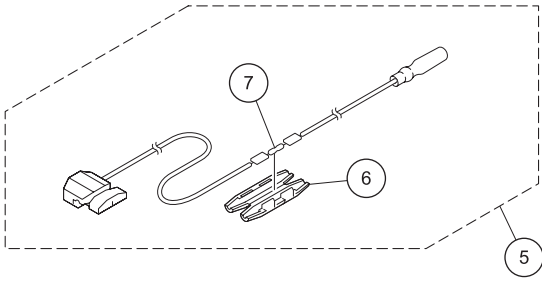
F



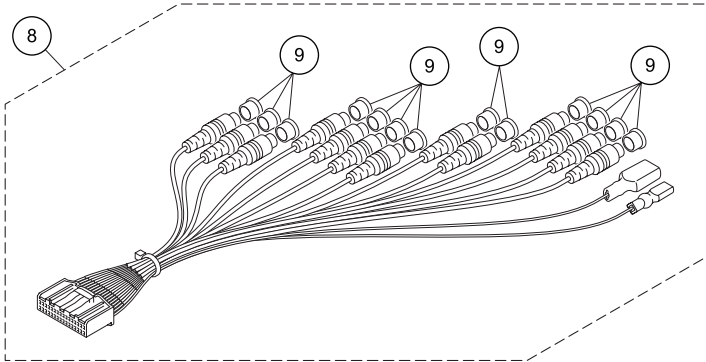
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	Screw	BMZ26P050FTC	
2	Screw(M2.6 x 4)	CBA2048	A
3	Screw(M2.6 x 14)	CBA2103	
4	Screw(M2.5 x 4)	CBA2217	
5	FFC	CDE8902	
6	Cord Assy	CDE8990	
7	Shield	CND4940	
8	Bracket	CND4941	
9	Cover	CND4961	
10	Sheet	CNN2803	
11	Sheet	CNN2804	B
12	Sheet	CNN2813	
13	Sheet	CNN3148	
14	Sheet	CNN3149	
15	Heat Sink	CNR1988	
16	Navi Unit	CWN3985	
17	Shield	CND4932	
18	Holder	CND4933	
19	Holder	CND4935	
20	Service CC Assy(UC)	CXX2608	C
	Service CC Assy(AU)	CXX2607	
21	Holder Unit	CXE2706	
22	Chassis Unit	CXE1612	
23	Shield Unit	CXE1620	
24	DVD Mechanism Module(LS1)	CXK6801	
25	Fan Motor	CXM1394	D
			E
			F

9.3 EXTERIOR(2)

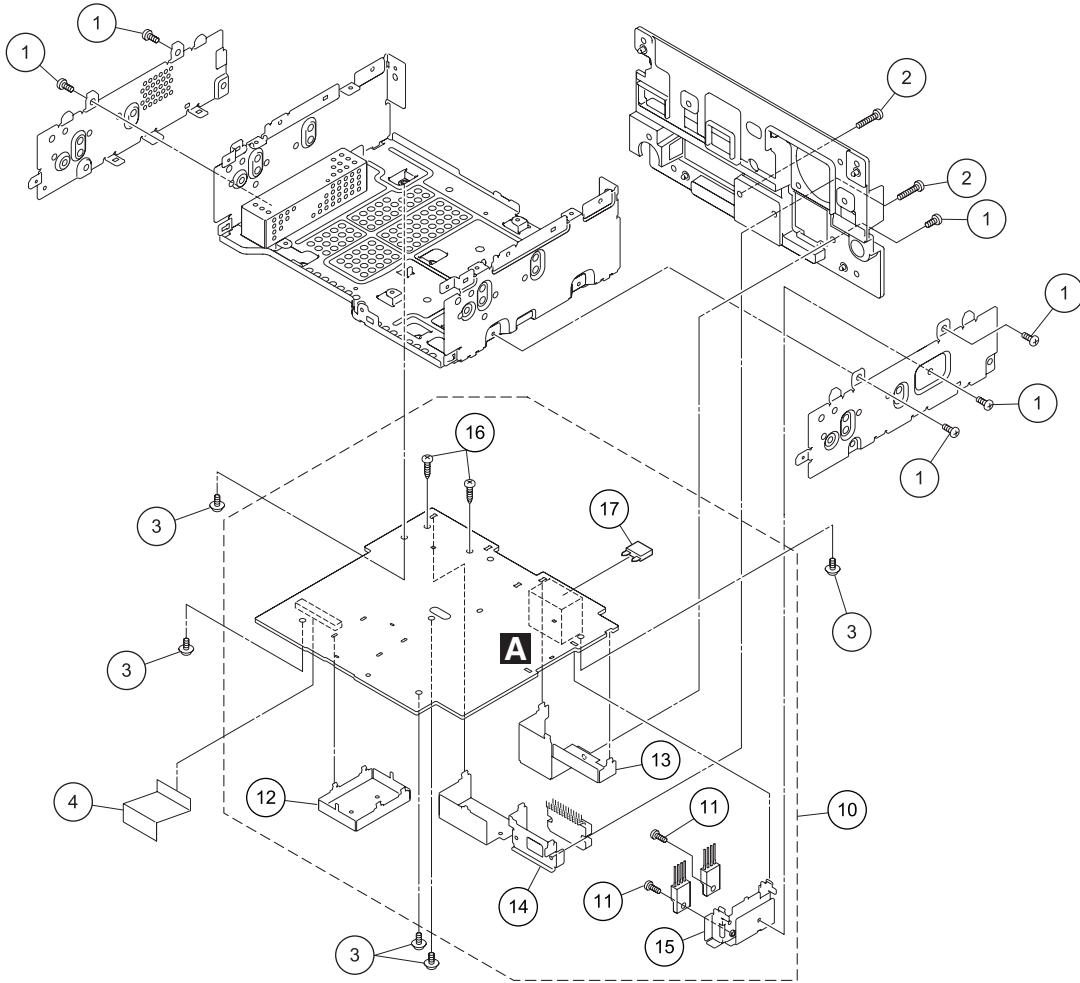
A



B



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E

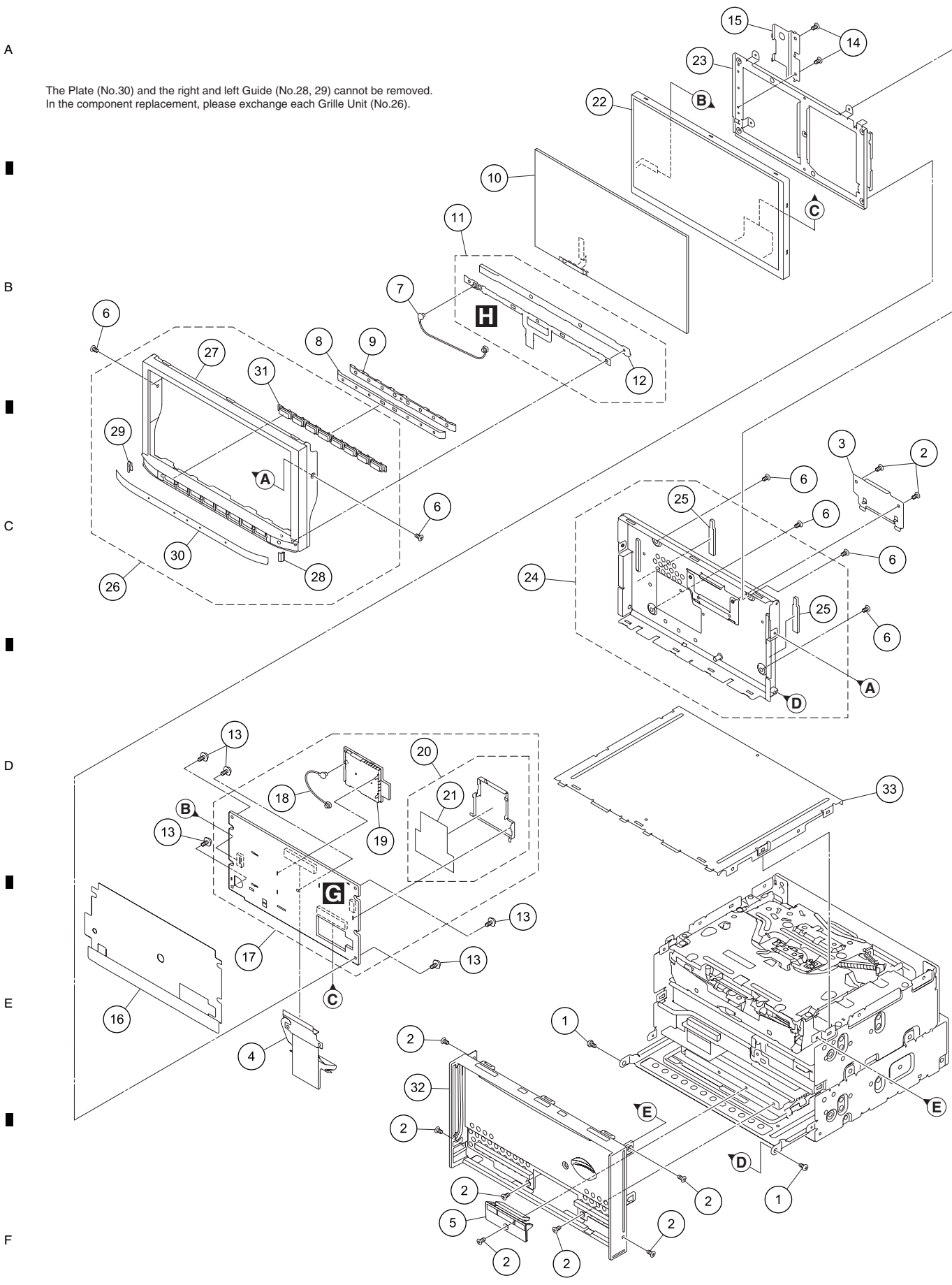
F

EXTERIOR(2) SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	Screw	BMZ26P050FTC	
2	Screw	BMZ26P160FCC	A
3	Screw(M2.6 x 4)	CBA2048	
4	FFC	CDE9208	
5	Cord	CDE6825	
6	Cap	CNS1472	
7	Resistor	RS1/2PMF102J	
8	Cord Assy	CDP1194	
9	Cap	CNW1490	
10	Audio Unit(UC)	CWN4335	
	Audio Unit(AU)	CWN4336	B
11	Screw	BMZ26P060FTB	
12	Shield	CND4926	
13	Holder	CND4927	
14	Holder	CND4929	
15	Holder	CND4930	
16	Screw	PPZ30P060FSN	
 17	Fuse(10 A)	YEK5001	
18	Cord Assy	CDP1095	C
			D
			E
			F

9.4 EXTERIOR(3)

The Plate (No.30) and the right and left Guide (No.28, 29) cannot be removed.
 In the component replacement, please exchange each Grille Unit (No.26).



EXTERIOR(3) SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	Screw	CBA1735	
2	Screw(M2 x 3)	CBA1877	A
3	Holder	CND5243	
4	Flexible PCB	CNQ2911	
5	Cover	CNS9804	
6	Screw(M2 x 3)	CBA1877	
7	Cord Assy	CDE8991	
8	Lighting Conductor	CNW1606	
9	Spacer	CNW1607	
10	Touch Panel	CSX1148	
11	Keyboard Unit	CWN3988	B
* 12	Spacer Unit	CXE1707	
13	Screw	AMZ20P040FTC	
14	Screw(M2 x 2)	CBA1771	
15	Holder	CND4965	
16	Insulator	CNN2805	
17	Monitor Unit	CWN3935	
18	Cord Assy	CDE8990	
19	Bluetooth Module	CWX3851	
20	Shield Unit	CXE2163	C
21	Insulator	CNN2822	
22	LCD Panel	CWX3813	
23	Holder Unit	CXE1741	
24	Case Unit	CXE2836	
25	Cushion	CNN3115	
26	Grille Unit(UC)	CXE2206	
	Grille Unit(AU)	CXE1974	
27	Grille	CNS9807	
28	Guide	CNS9824	D
29	Guide	CNS9825	
30	Plate(UC)	CNS9899	
	Plate(AU)	CNS9949	
31	Button Unit	CXE1706	
32	Panel Unit(UC)	CXE1991	
	Panel Unit(AU)	CXE1992	
33	Case	CNB3574	E

9.5 EXTERIOR(4)

A

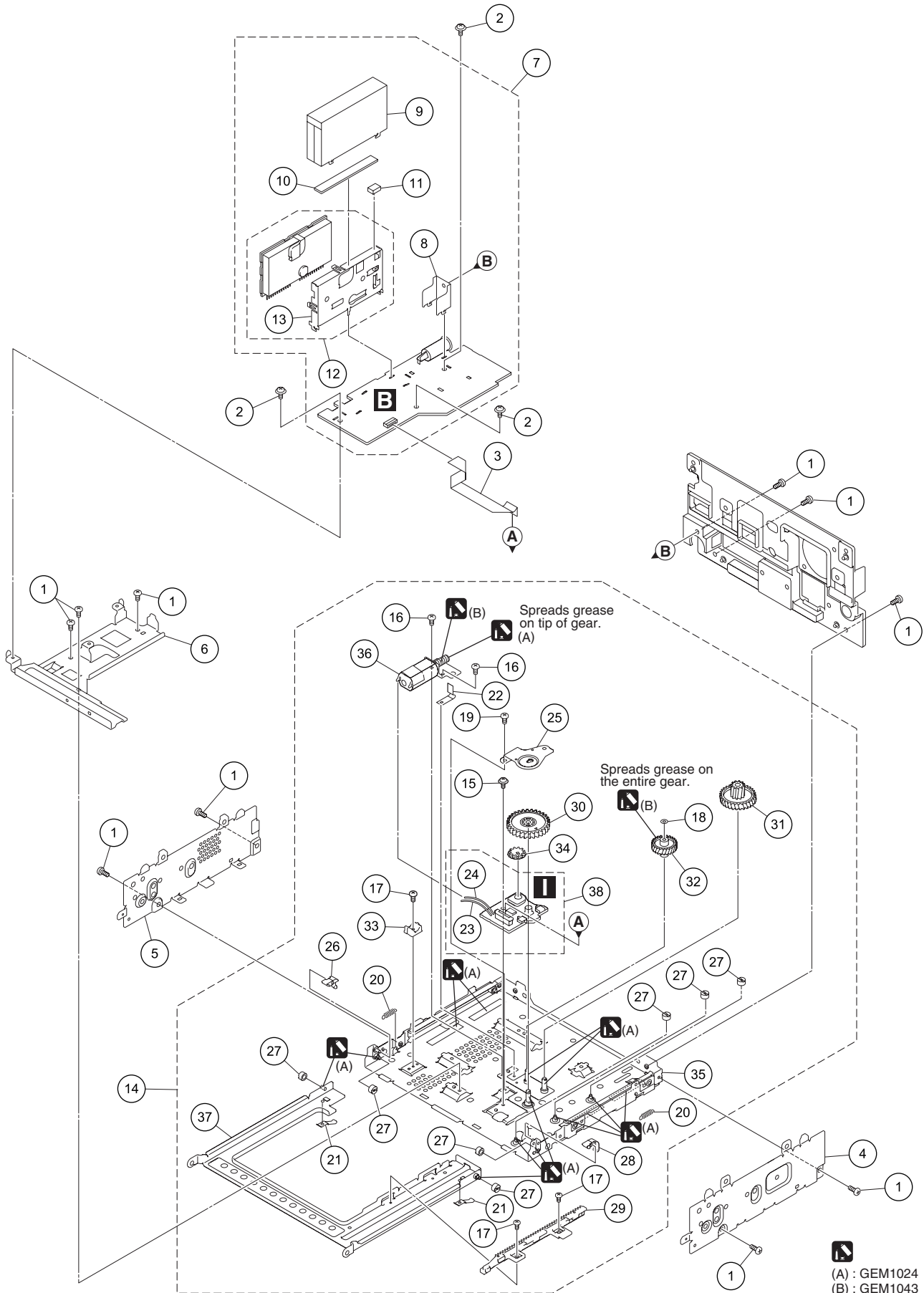
B

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EXTERIOR(4) SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	Screw	BMZ26P050FTC	
2	Screw(M2.6 x 4)	CBA2048	A
3	FFC	CDE8899	
4	Bracket	CND4916	
5	Bracket	CND4917	
6	Bracket	CND5037	
7	Tuner IF Unit(UC)	CWN4824	
	Tuner IF Unit(AU)	CWN4339	
8	Holder	CND5159	
9	Shield	CND5426	
10	Sheet	CNN3157	B
11	Cushion	CNN3159	
12	FM/AM Tuner Unit(UC)	CWE2097	
	FM/AM Tuner Unit(AU)	CWE2128	
13	Holder	CND4324	
14	Drive Unit	CXE1522	
15	Screw	AMZ26P030FTC	
16	Screw	BMZ20P020FTC	
17	Screw(M2 x 2)	CBA1527	
18	Washer	CBF1039	C
19	Screw	EBA1051	
20	Spring	EBH1684	
21	Spring	EBL1033	
22	Spring	EBL1034	
23	Cord(Purple)	EDC1026	
24	Cord(Green)	EDC1027	
25	Bracket	ENC1604	
26	Arm	ENV1615	
27	Roller	ENV1619	
28	Arm	ENV1623	D
29	Rack	ENV1629	
30	Gear	ENV1630	
31	Gear	ENV1631	
32	Gear	ENV1632	
33	Holder	ENV1634	
34	Gear	ENV1635	
35	Chassis Unit	EXA1688	
36	Motor Unit	EXA1692	E
37	Frame Unit	EXA1693	
38	PCB Assy(Service)	EXX1060	

9.6 DVD MECHANISM MODULE

A

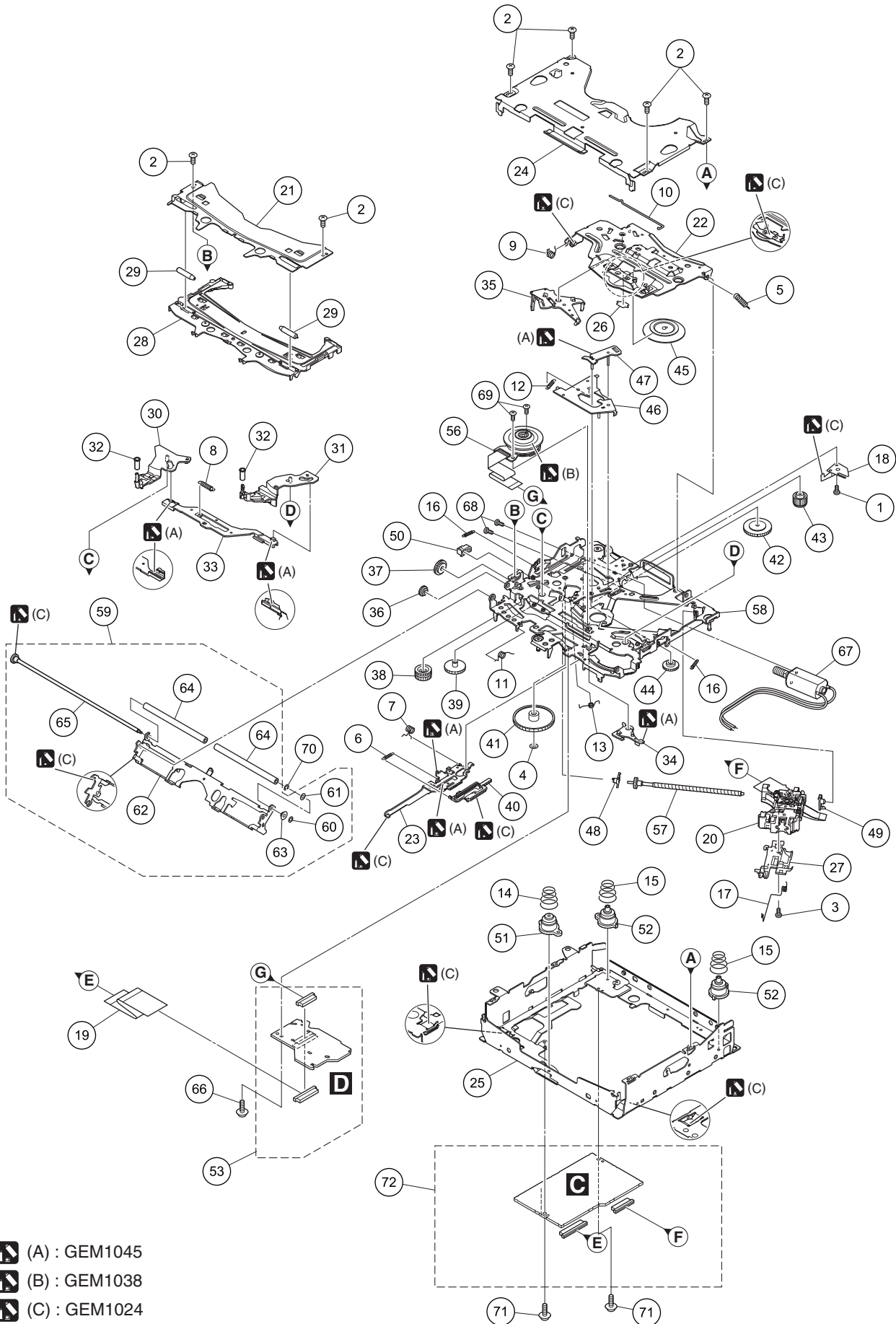
B

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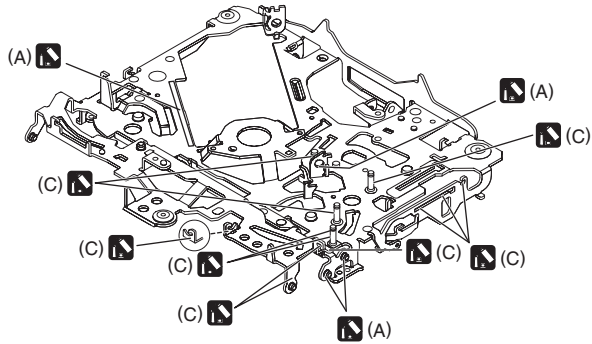


- (A) : GEM1045
- (B) : GEM1038
- (C) : GEM1024

DVD MECHANISM MODULE SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	Screw	BMZ20P020FTC	50	Holder	CNW1195	
2	Screw	BSZ20P040FTC				
3	Screw(M2 x 4)	CBA1835	51	Damper	CNW1197	A
4	Washer	CBF1038	52	Damper	CNW1198	
5	Spring	CBH2860	*	53 Connect PCB Unit	CWX3618	
			54	.....	
6	Spring	CBH3010	55	.....	
7	Spring	CBH3011				
8	Spring	CBH3012	56	Motor Unit	CXC4026	
9	Spring	CBH3013	57	Screw Unit	CXC8894	
10	Spring	CBH3014	58	Chassis Unit	CXC8895	
			59	Arm Assy	CXC8896	
11	Spring	CBH3015	60	Washer	CBF1037	B
12	Spring	CBH3016				
13	Spring	CBH3017	61	Washer	CBF1038	
14	Spring	CBH3018	62	Arm	CND4554	
15	Spring	CBH3019	63	Collar	CNV6906	
			64	Roller	CNW1196	
16	Spring	CBH3020	65	Gear Unit	CXC8893	
17	Spring	CBH3030				
18	Plate Spring	CBL1797	66	Screw(M2 x 5)	EBA1028	
19	Cable	CDE8631	67	Motor	EXM1050	
20	Service PU Unit	CXX2398	68	Screw	JFZ20P025FTC	
			69	Screw	JGZ17P022FTC	C
21	Bracket	CND4553	70	Washer	YE15FTC	
22	Arm	CND4555				
23	Lever	CND4556	71	Screw	IMS20P030FTC	
24	Frame	CND4557	72	DVD Core Unit	YWX5009	
25	Frame	CND4558				
26	Sheet	CNN2280				
27	Rack	CNW1170				
28	Guide	CNW1171				
29	Roller	CNW1172				
30	Arm	CNW1173				D
31	Arm	CNW1174				
32	Roller	CNW1175				
33	Lever	CNW1176				
34	Arm	CNW1177				
35	Arm	CNW1178				
36	Gear	CNW1180				
37	Gear	CNW1181				
38	Gear	CNW1182				
39	Gear	CNW1183				E
40	Rack	CNW1184				
41	Gear	CNW1185				
42	Gear	CNW1186				
43	Gear	CNW1187				
44	Gear	CNW1188				
45	Clamper	CNW1190				
46	Arm	CNW1191				
47	Arm	CNW1192				F
48	Holder	CNW1193				
49	Holder	CNW1194				

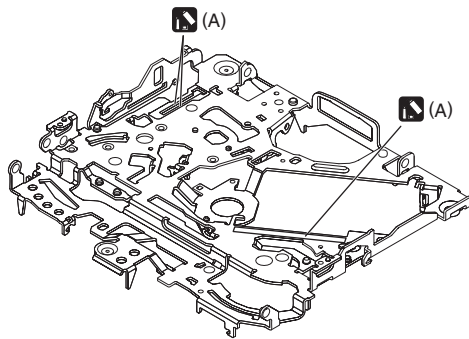
A



B

C

D



E

F

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

A

B

C

D

E

F

CORD ASSY (POWER SUPPLY)

1	FR+
2	FR-
3	FR+
4	FR-
5	FR+
6	FR-
7	FL+
8	FL-
9	PKB
10	R/LS
11	REV
12	LM
13	AAANT
14	ACC
15	GND
16	BJP

FM/AM+31.56 DBS
 NAV/USB/SD+33.30 DBS
 NAV/BT-Audio+33.68 DBS
 IP-BUS+33.93 DBS
 VTR+33.89 DBS
 VTR1+33.31 DBS

VEHICLE I/F
 JA2001
 CKM1550-A

A1/3 AUDIO UNIT (PS/IF SECTION)

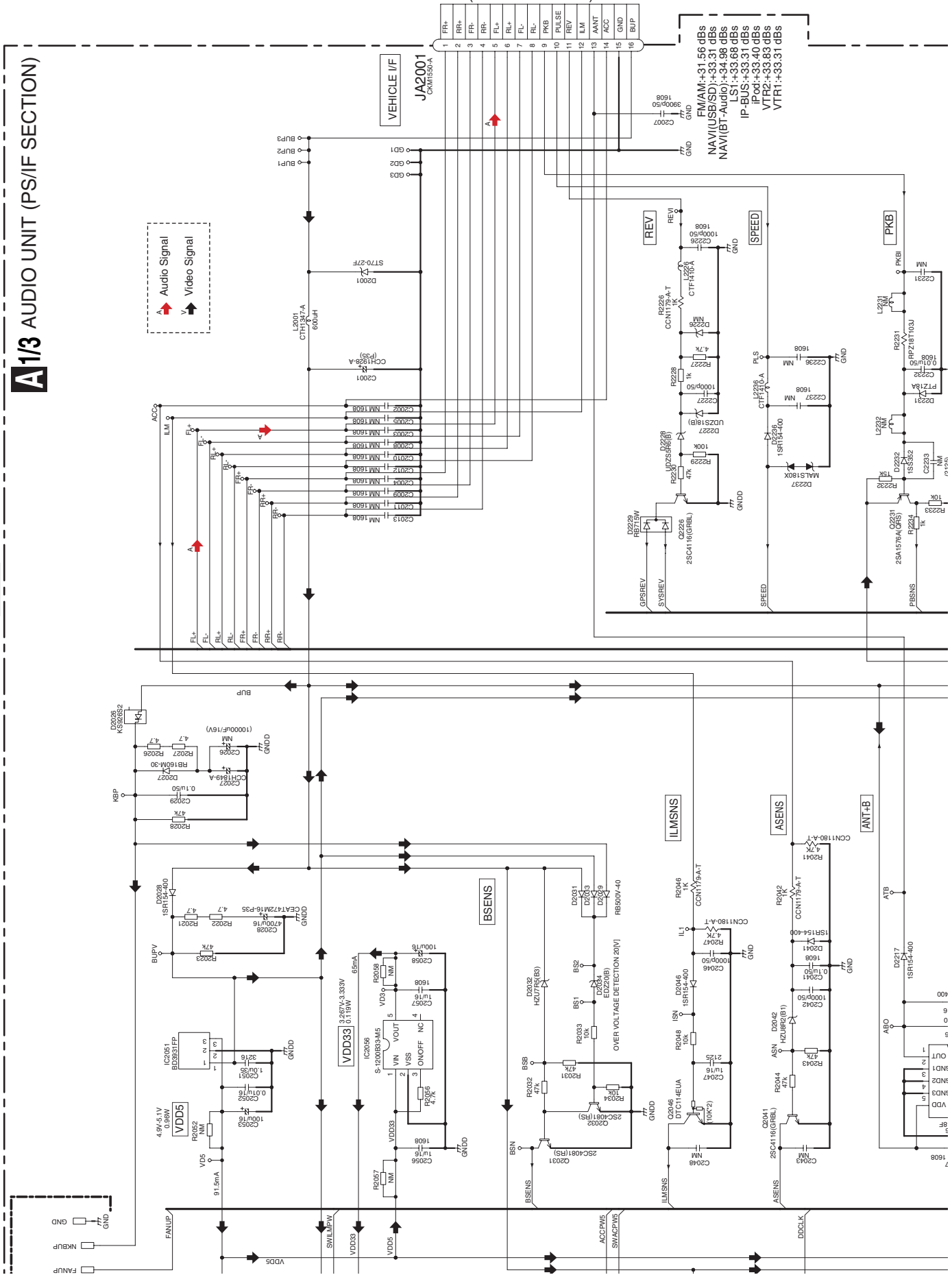


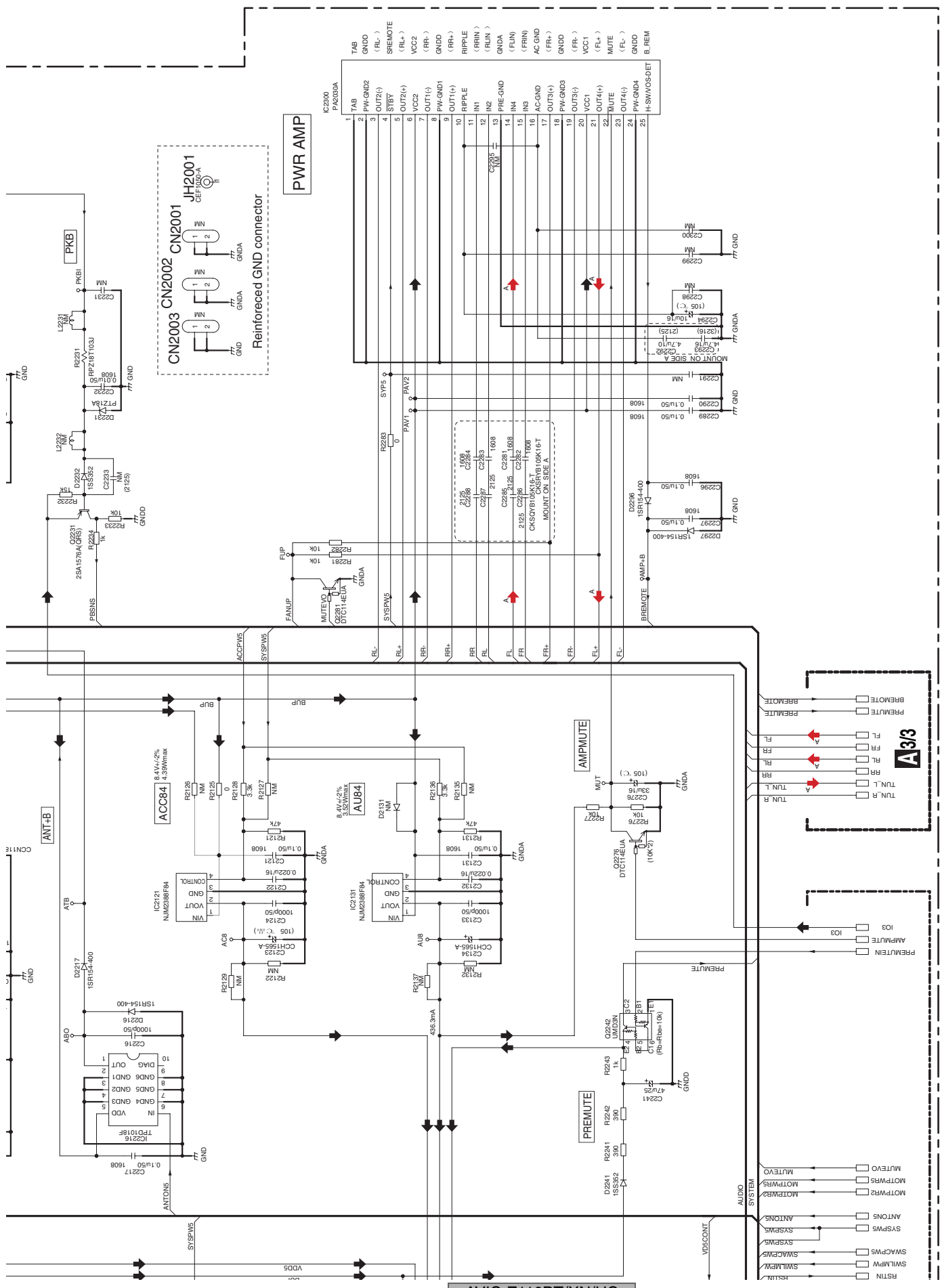
A
B
C
D
E
F

A-a
A-b

A-b 1/3

AVIC-Z110BT/XN/UC

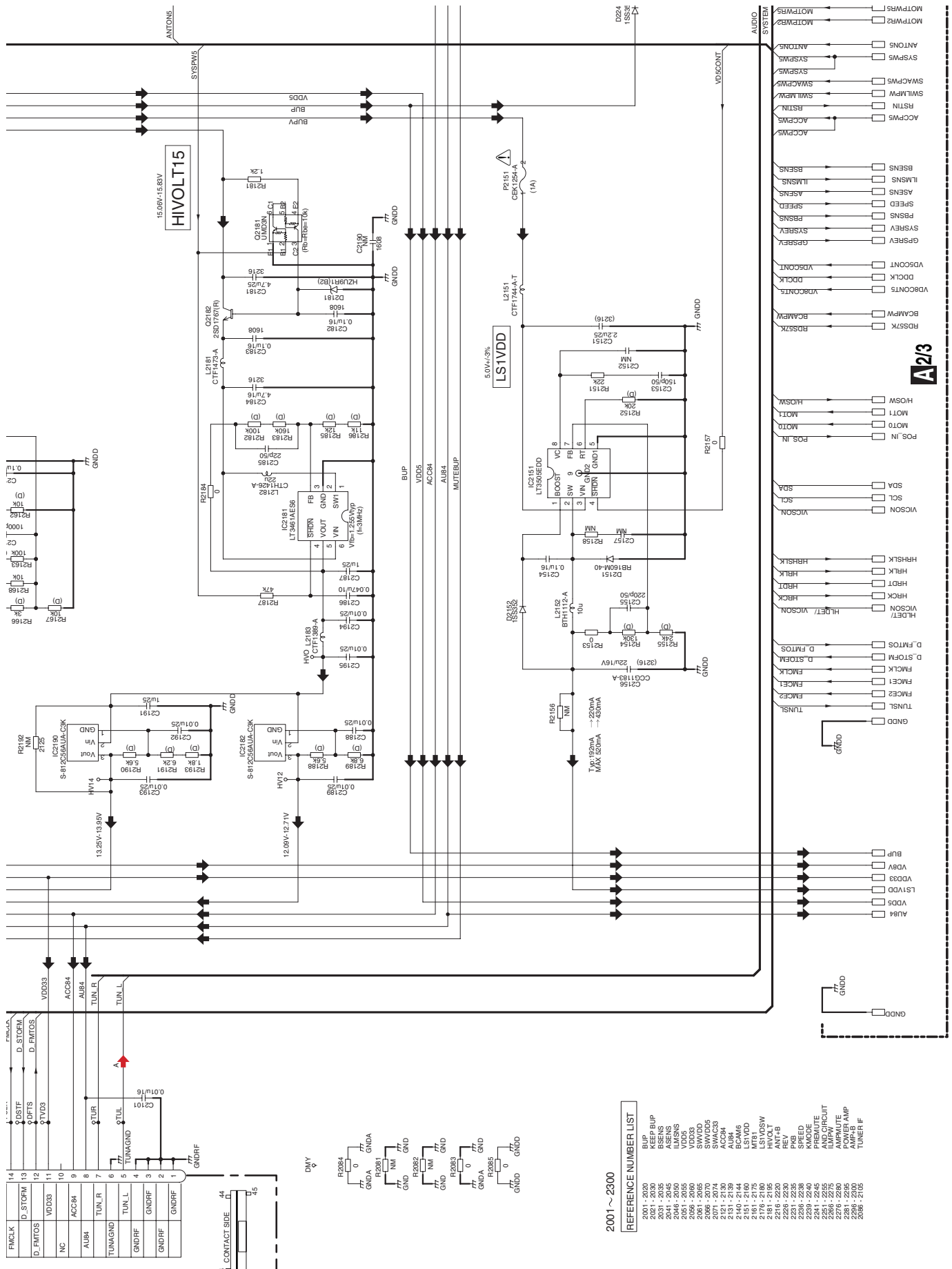




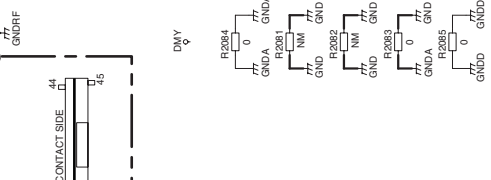
A
B
C
D
E
F

A-a A-b

A-b 1/3



14	FMCLK
13	D_STOPM
12	D_STOPS
11	D_FMTOS
10	D_FMTOS
9	VDD33
8	ACC84
7	AUB4
6	TUN_R
5	TUN_L
4	TUNAGND
3	TUNAGND
2	GNDRF
1	GNDRF



2001 ~ 2300

REFERENCE NUMBER LIST	
2001 - 2030	BUFP
2031 - 2035	KEEP BUFP
2036 - 2045	BSENS
2046 - 2050	ILMSENS
2051 - 2055	VDD5
2056 - 2060	VDD33
2061 - 2070	SWACPS
2071 - 2074	SWACPS3
2075 - 2079	SWACPS4
2131 - 2139	AUB4
2140 - 2144	BCAM6
2145 - 2150	LS1VDD
2151 - 2160	LS1VDD
2161 - 2180	LS1VDSW
2181 - 2195	H1VOLT
2196 - 2230	REV_B
2231 - 2235	PKG
2236 - 2240	KNODE
2241 - 2245	PREAUTE
2246 - 2250	PREAUTE
2251 - 2255	AMPROUTE
2256 - 2260	AMPROUTE
2261 - 2265	APP_AMP
2266 - 2270	TUNER IF

A-b 1/3

A2/3

A-a

A-a 1/3

10.2 AUDIO UNIT(SYSCOM SECTION)(GUIDE PAGE)

A-a 2/3

A

B

C

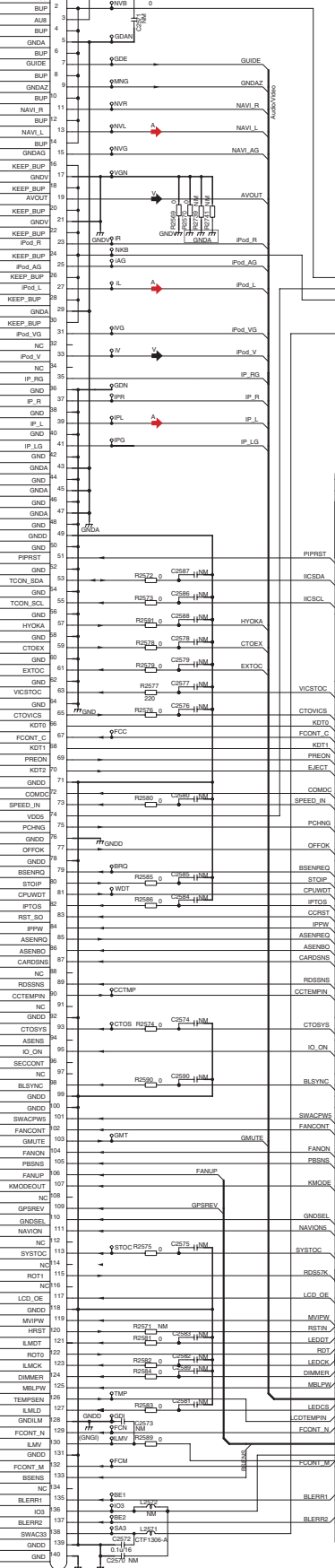
D

E

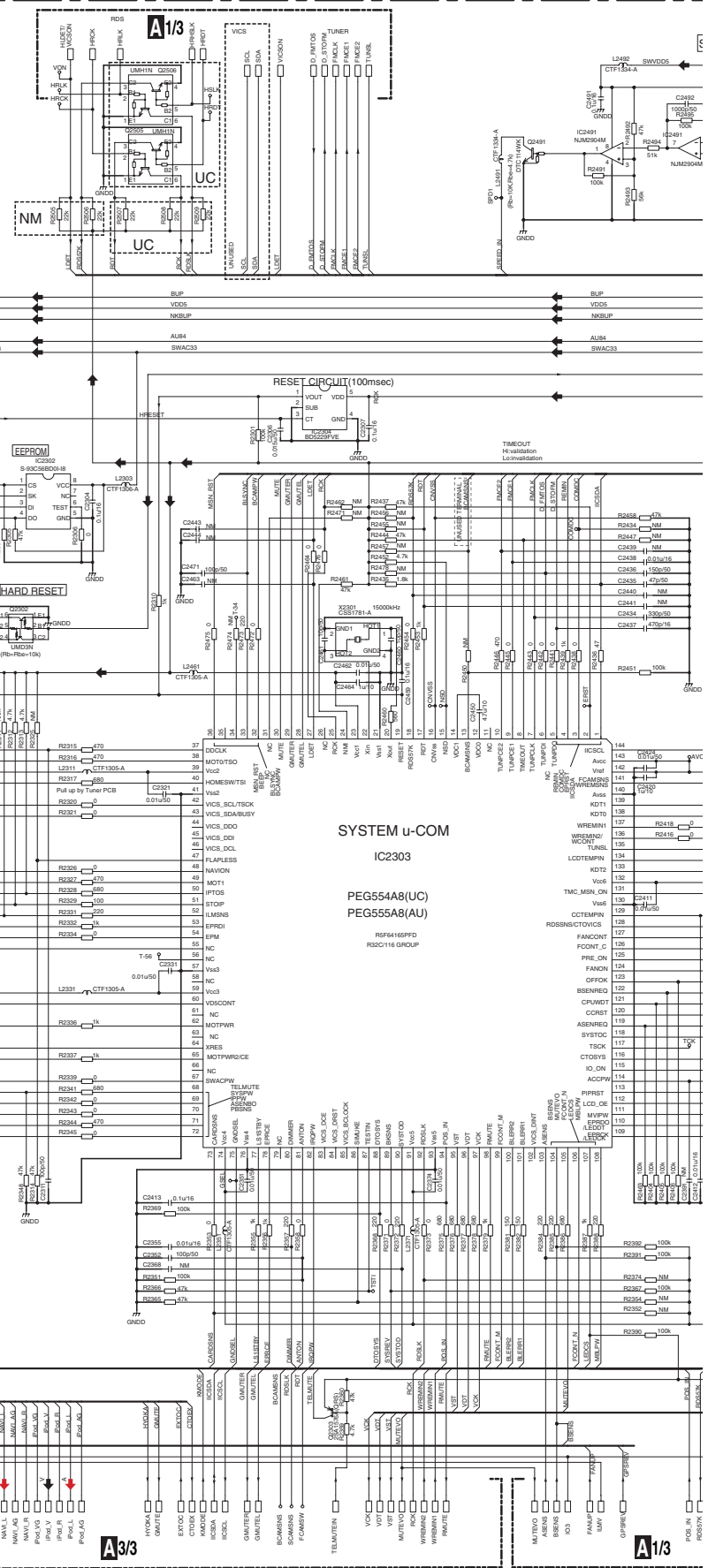
F

CN2571

CK36144-A



F4/4
CN5603



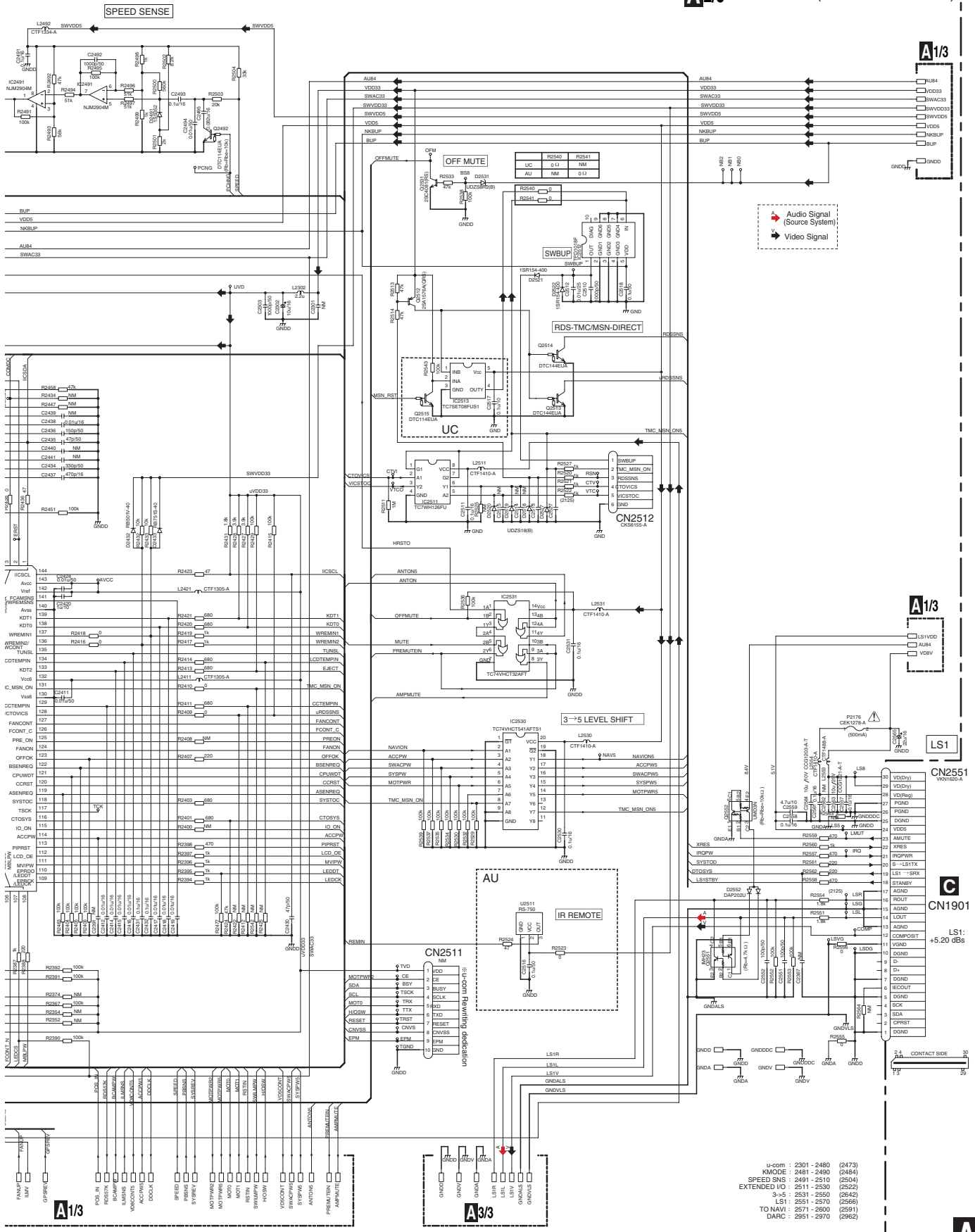
A2/3

AVIC-Z110BT/XN/UC

A1/3

A-b 2/3

A2/3 AUDIO UNIT (SYSCOM SECTION)

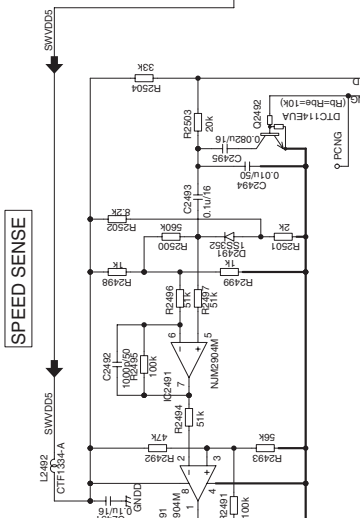


U-com	: 2301 - 2480	(2473)
KMODE	: 2481 - 2490	(2484)
SPEED SNS	: 2491 - 2510	(2504)
EXTENDED I/O	: 2511 - 2530	(2522)
3-5	: 2531 - 2550	(2542)
LS1	: 2551 - 2570	(2565)
TO NAVI	: 2571 - 2600	(2591)
DARC	: 2951 - 2970	(2962)

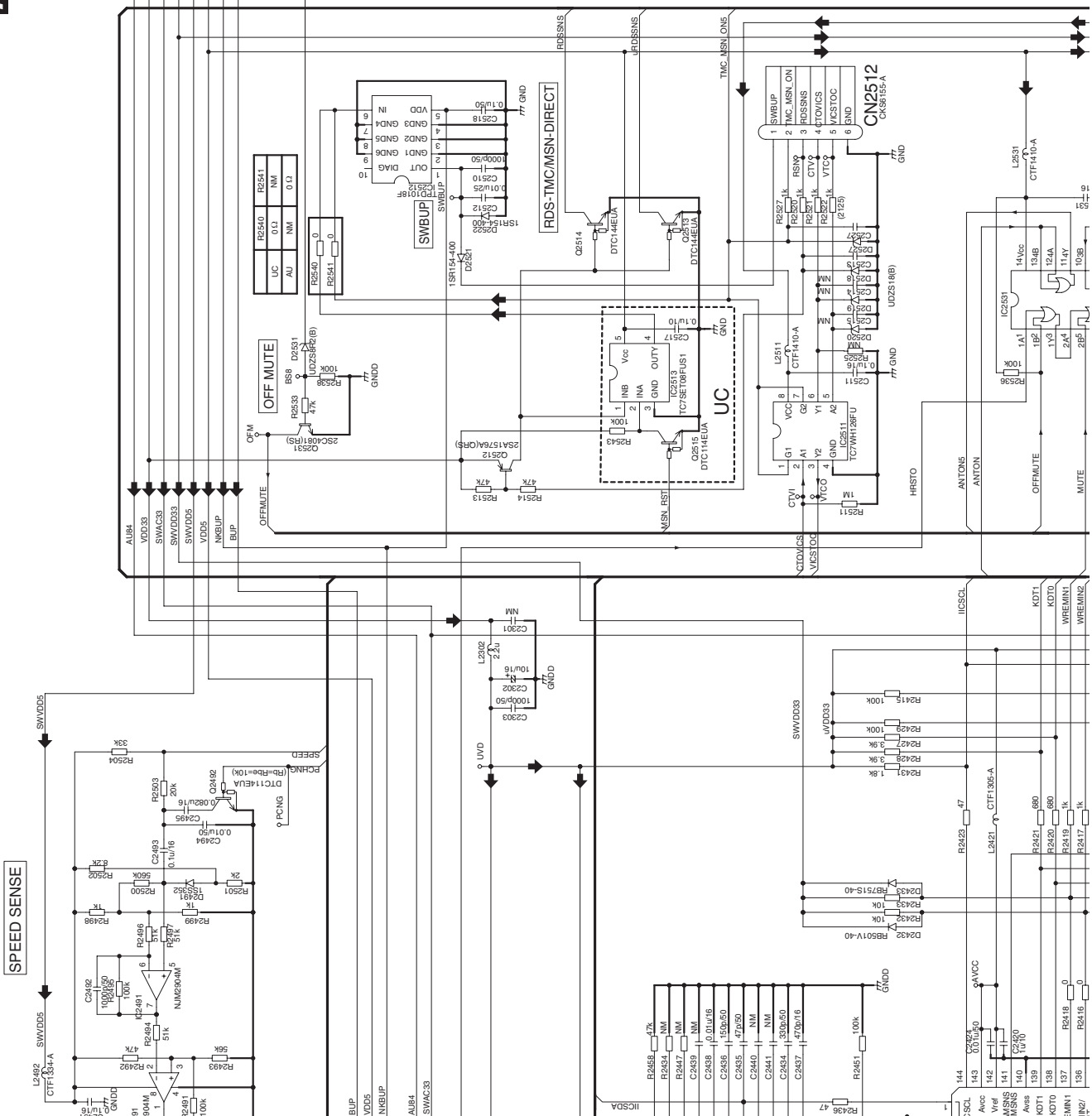
A2/3 AUDIO UNIT (SYSCOM SECTION)



SPEED SENSE

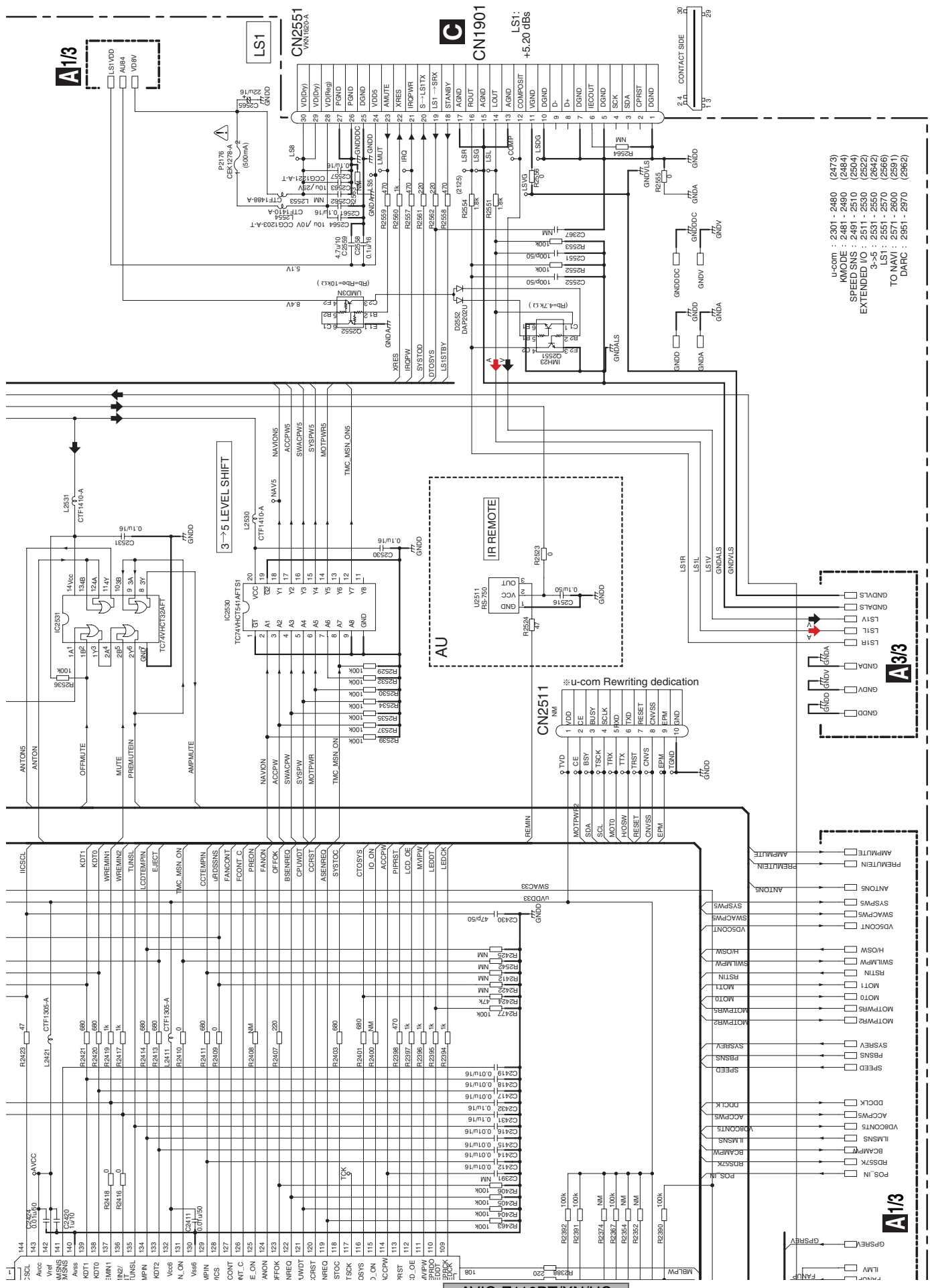


AVIC-Z110BT/XN/UC



A-a A-b

A-b 2/3



AVIC-Z110BT/XN/UC

u-com : 2301 - 2480 (2473)
 KMODE : 2481 - 2490 (2484)
 SPEEDSNS : 2491 - 2510 (2504)
 EXTENDED I/O : 2511 - 2530 (2522)
 3-LS : 2531 - 2550 (2542)
 TO NAVI : 2571 - 2600 (2586)
 DARC : 2651 - 2970 (2662)

A-b 2/3

A-a A-b

A

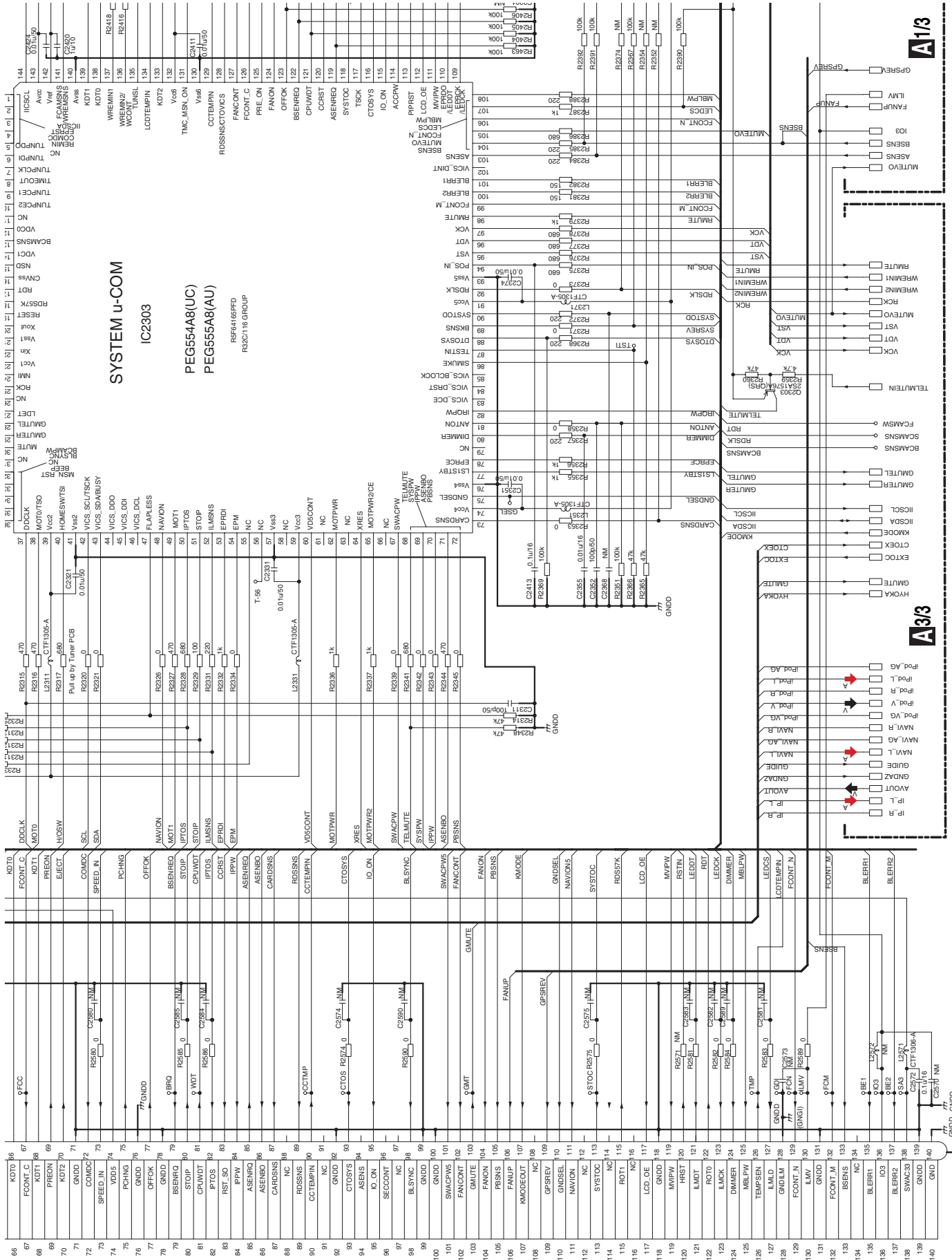
B

C

D

E

F



A-1/3

A-b 2/3

A B C

A-a A-b

D E F

A-a 2/3

10.3 AUDIO UNIT(AV SECTION)(GUIDE PAGE)

A-a 3/3

A

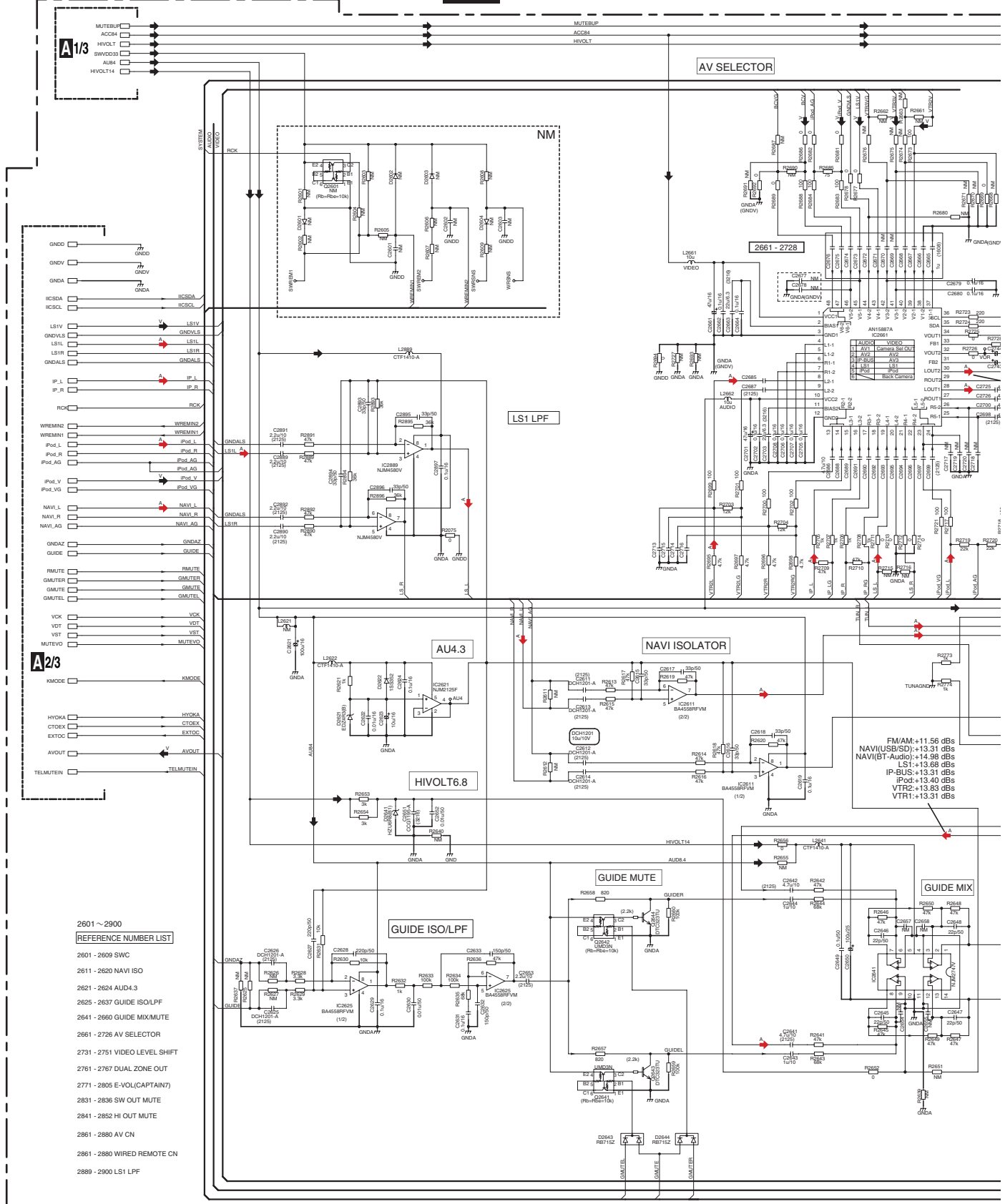
B

C

D

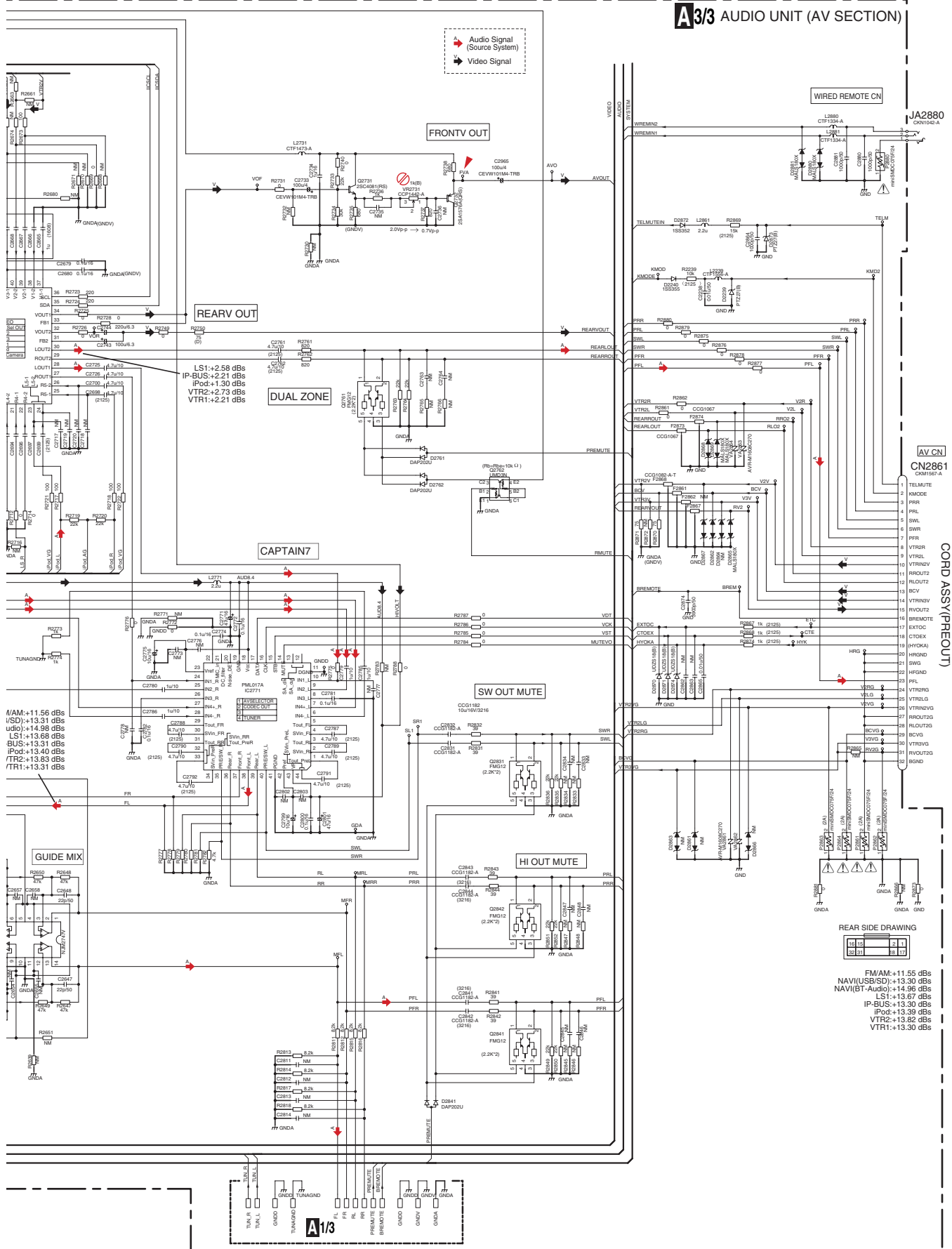
E

F



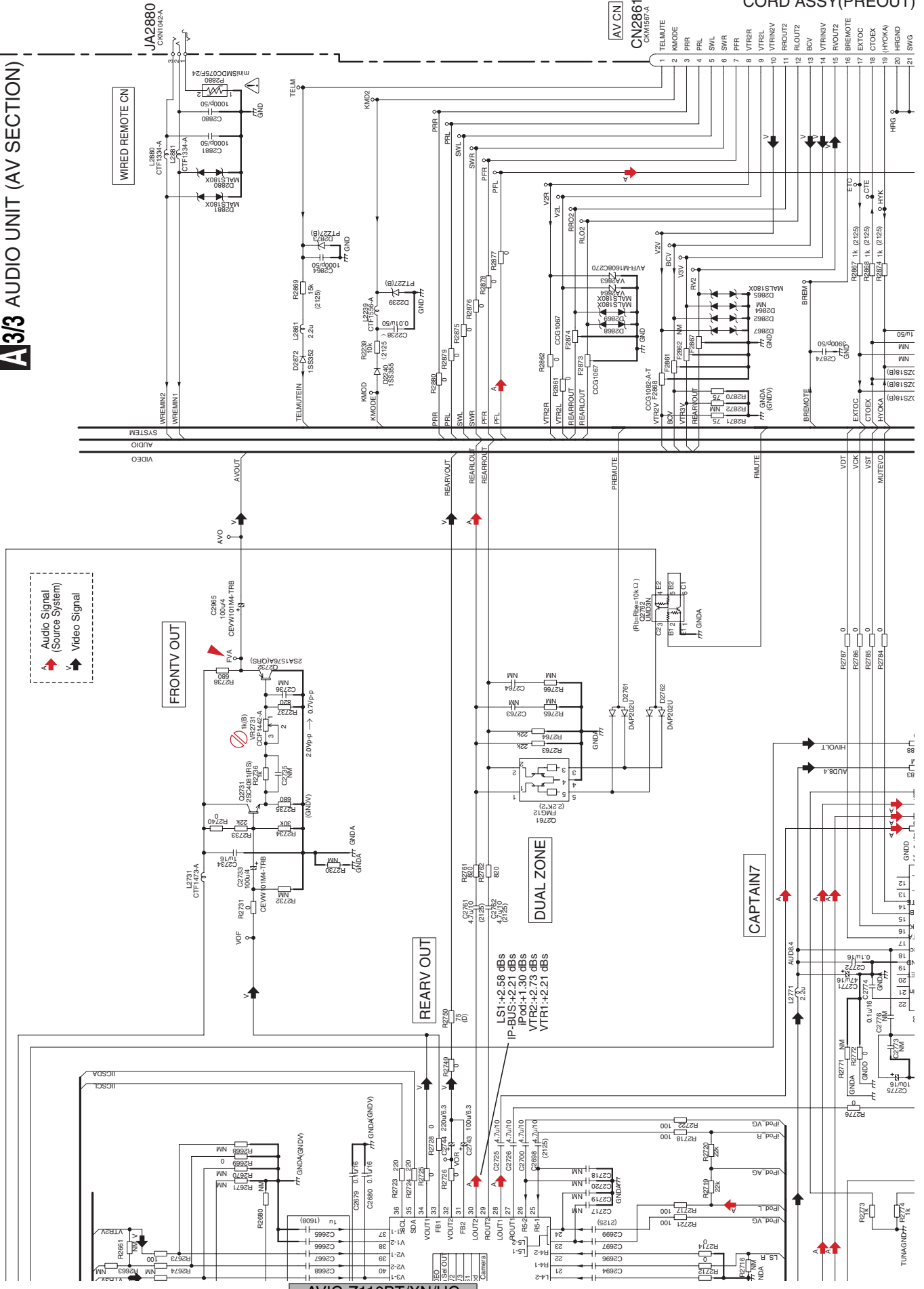
A-b 3/3

A3/3 AUDIO UNIT (AV SECTION)



A3/3 AUDIO UNIT (AV SECTION)

CORD ASSY(PREOUT)



A B C D E F

A-a A-b

A-b 3/3

A-b 3/3

A

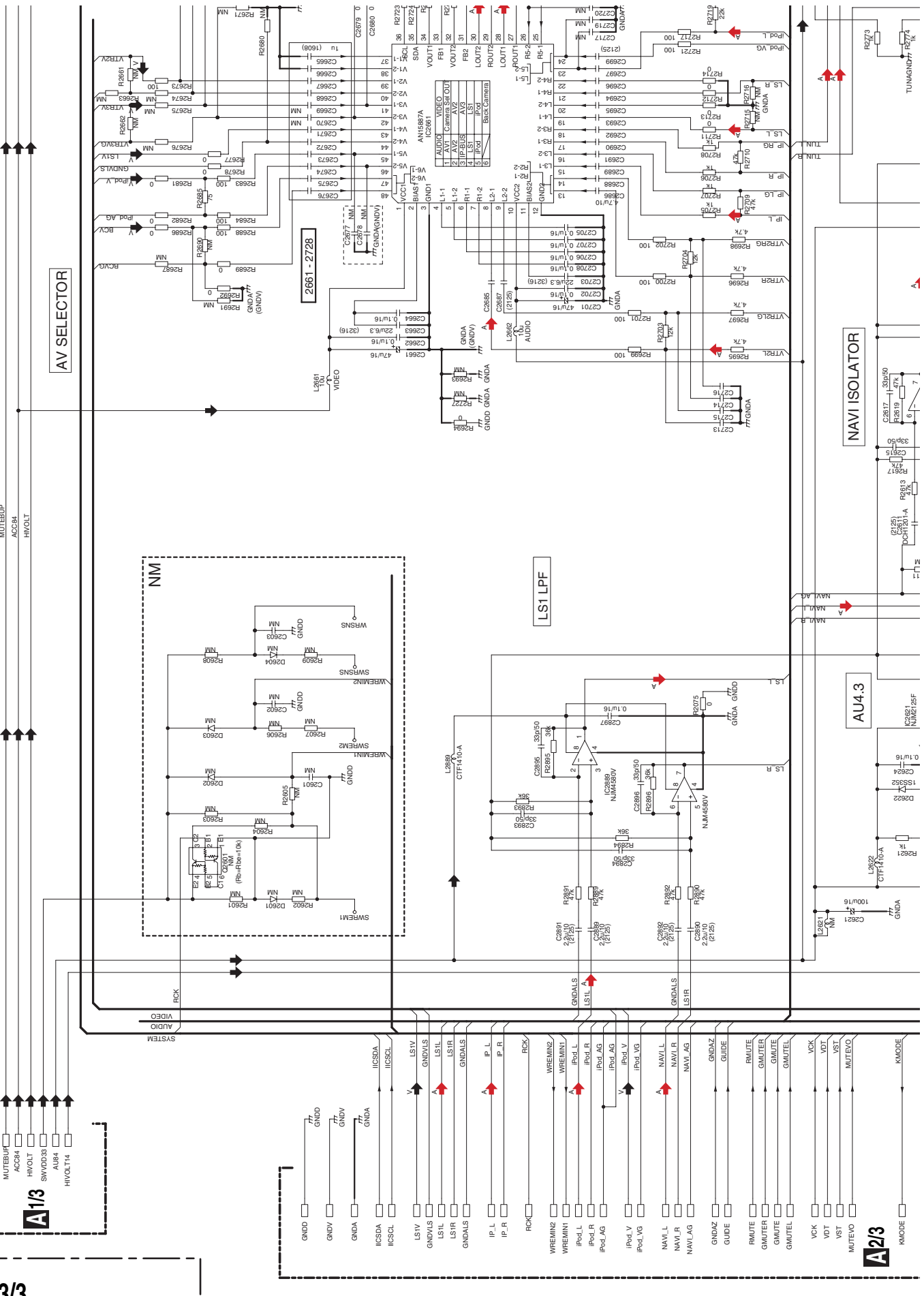
B

C

D

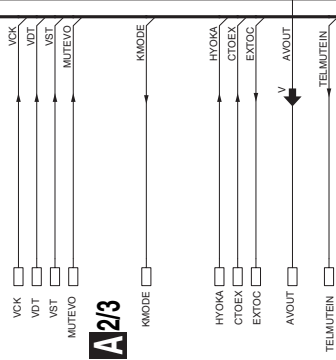
E

F

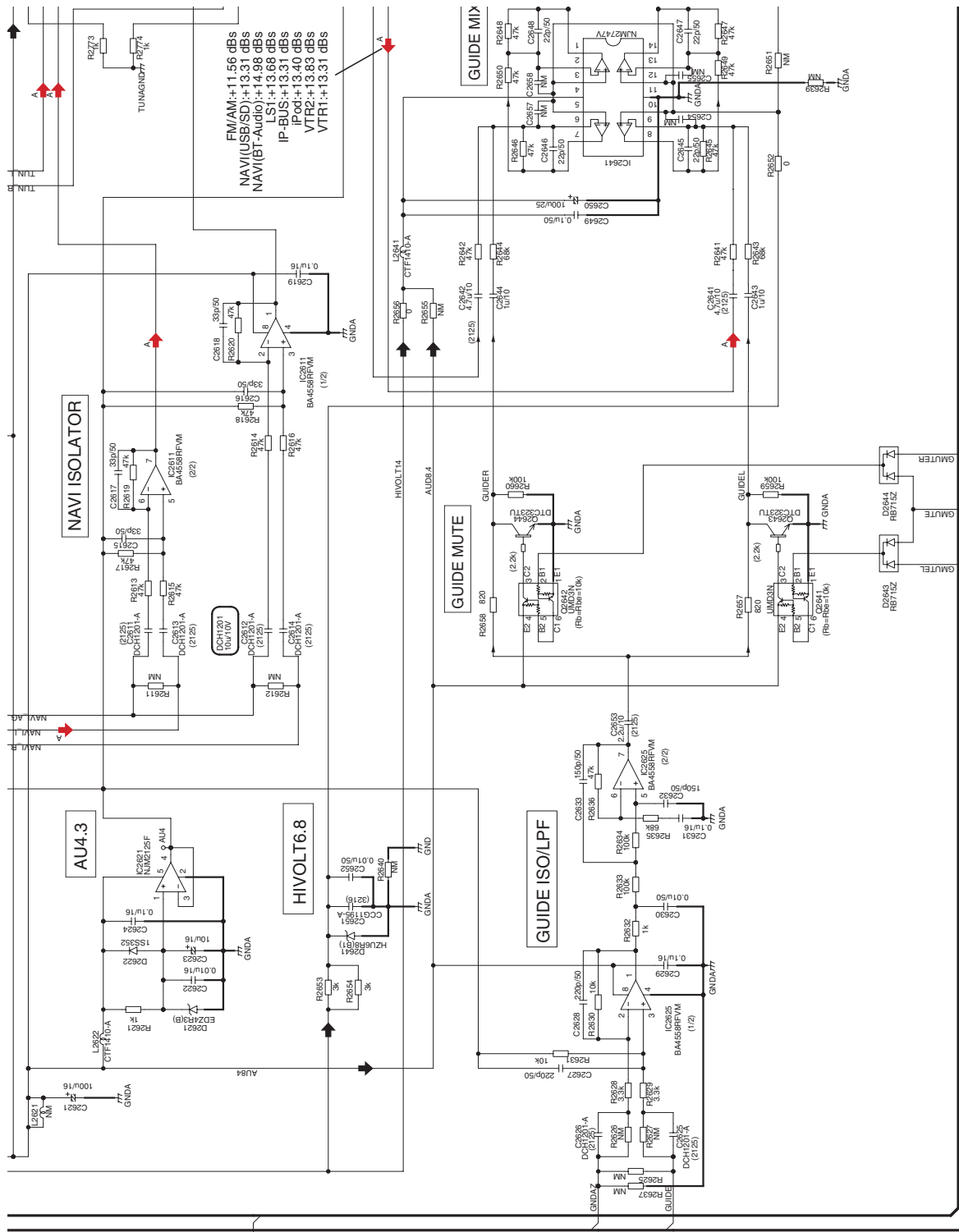


A-a 3/3

AVIC-Z110BT/XN/UC



A213



- 2601 ~ 2900
REFERENCE NUMBER LIST
 2601 - 2609 SWC
 2611 - 2620 NAVI ISO
 2621 - 2624 AU4.3
 2625 - 2637 GUIDE ISOL/PF
 2641 - 2660 GUIDE MIX/MUTE
 2661 - 2726 AV SELECTOR
 2731 - 2751 VIDEO LEVEL SHIFT
 2761 - 2767 DUAL ZONE OUT
 2771 - 2805 E-VOL(CAPTAIN7)
 2831 - 2836 SW OUT MUTE
 2841 - 2852 HI OUT MUTE
 2861 - 2880 AV CN
 2861 - 2880 WIRED REMOTE CN
 2889 - 2900 LSI LPF

AVIC-Z110BT/XN/UC

A-b 3/3

A-a 3/3

A B C D E F

A-a A-b

10.4 TUNER IF UNIT(GUIDE PAGE)

B-a

A

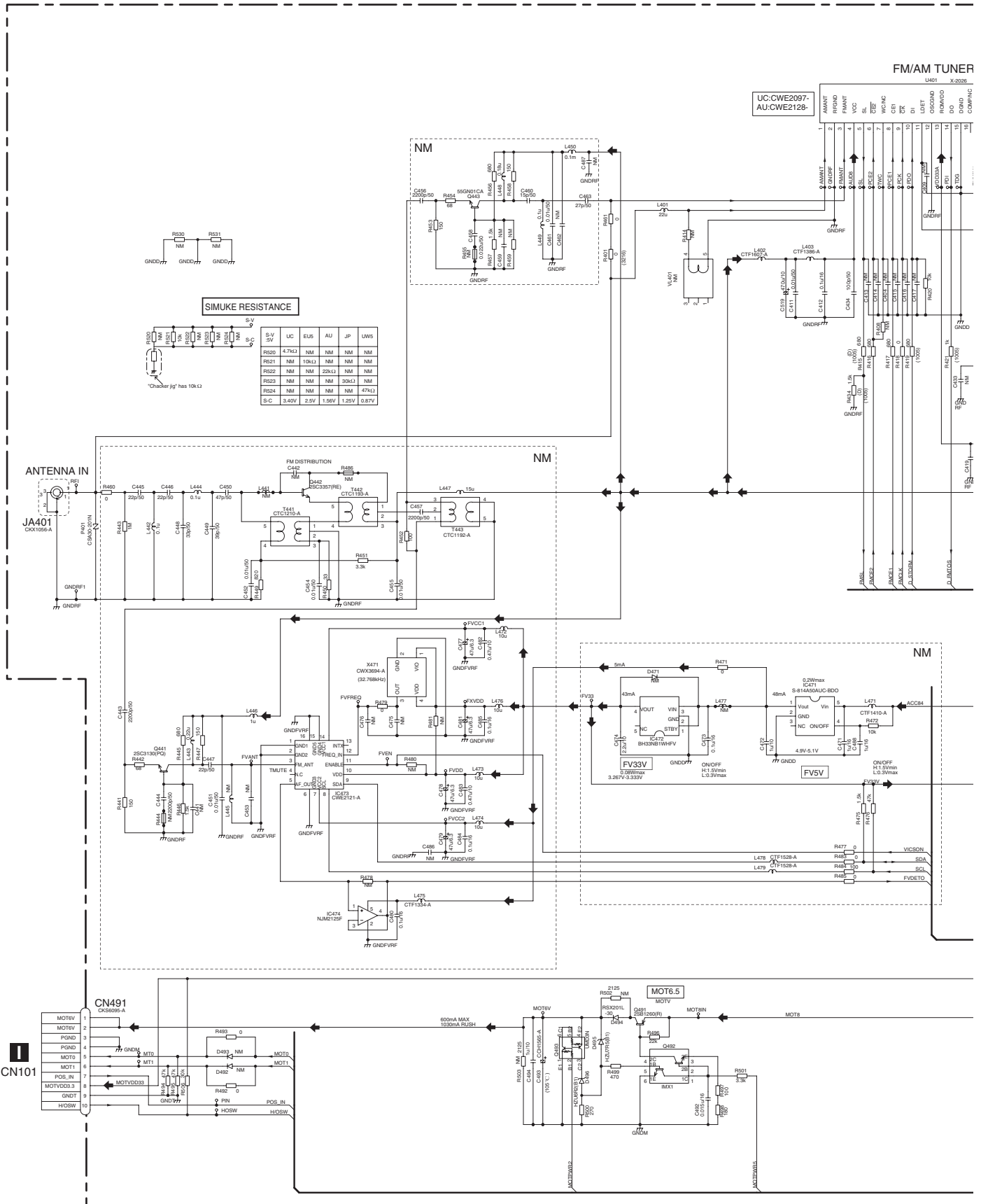
B

C

D

E

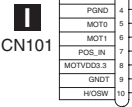
F



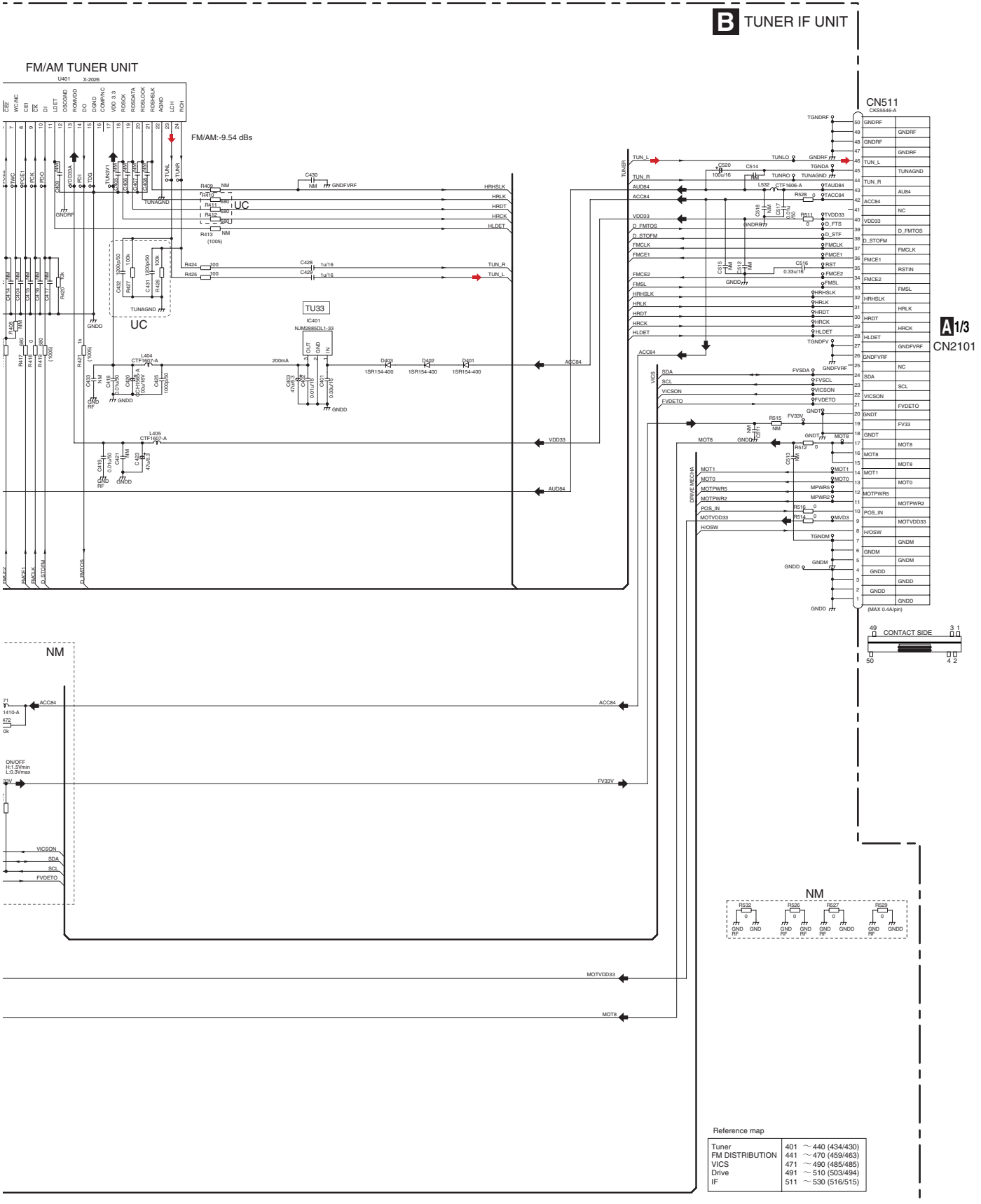
SIMUKE RESISTANCE

RES	S-V	UC	EU5	AU	JP	UW5
RS00	4.7kΩ	NM	NM	NM	NM	NM
RS01	10kΩ	NM	NM	NM	NM	NM
RS02	NM	NM	29kΩ	NM	NM	NM
RS03	NM	NM	NM	30kΩ	NM	NM
RS04	NM	NM	NM	NM	47kΩ	NM
S-C	3.40V	2.5V	1.56V	1.25V	0.87V	

*Chucker jif has 10kΩ



B-b



A

B

C

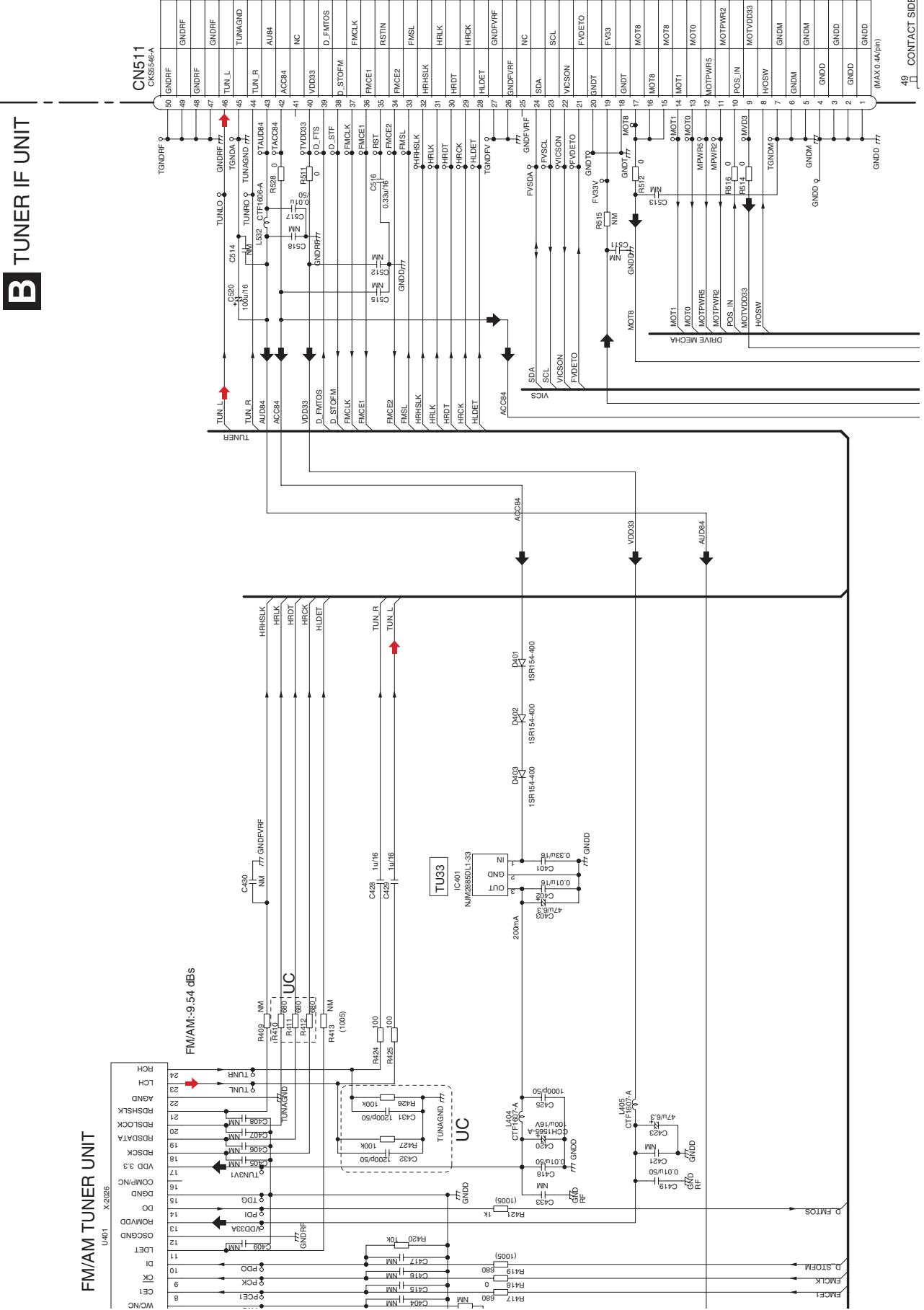
D

E

F

B

B TUNER IF UNIT



A

B

C

D

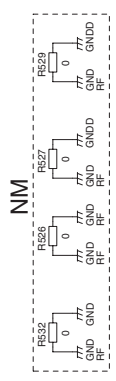
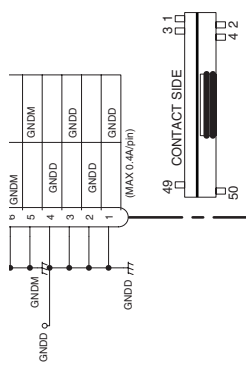
E

F

B-a B-b

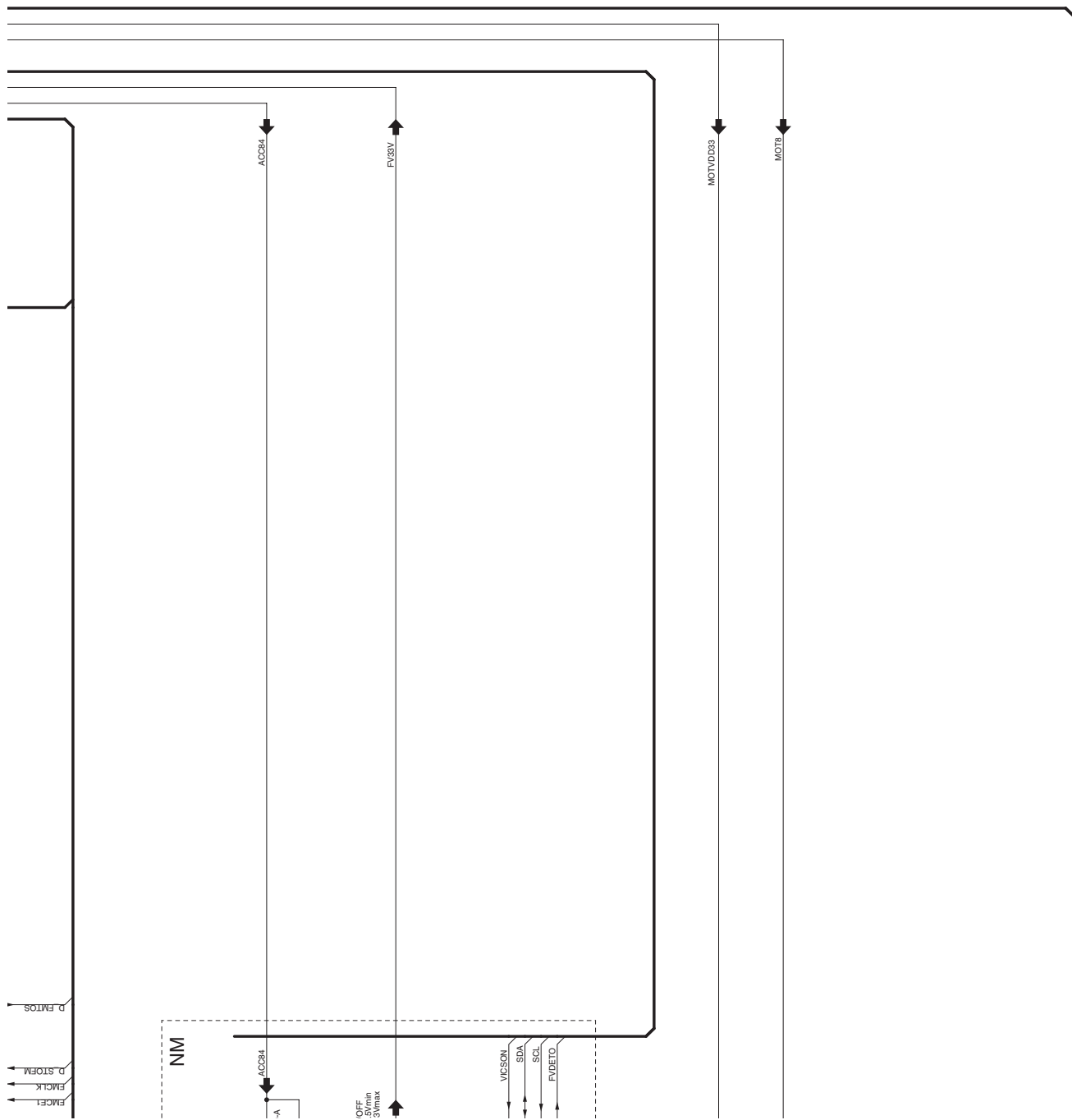
B-b

A/13
CN2101



Reference map

Tuner	401 ~ 440 (434/430)
FM DISTRIBUTION	441 ~ 470 (459/463)
VCS	471 ~ 490 (485/485)
Drive	491 ~ 510 (503/494)
IF	511 ~ 530 (516/515)



B-a B-b

B-b

B-b

B

C

B-a B-b

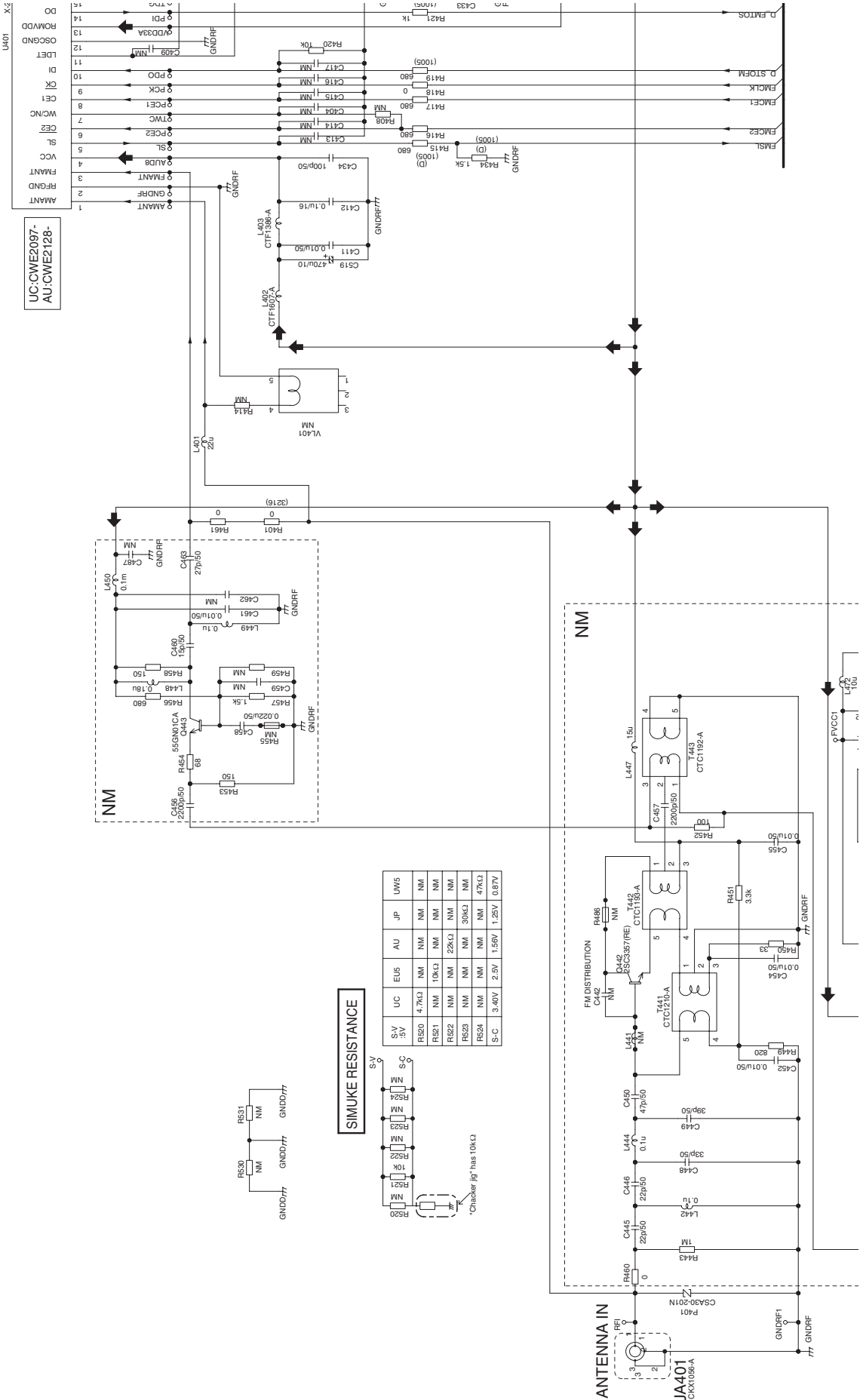
D

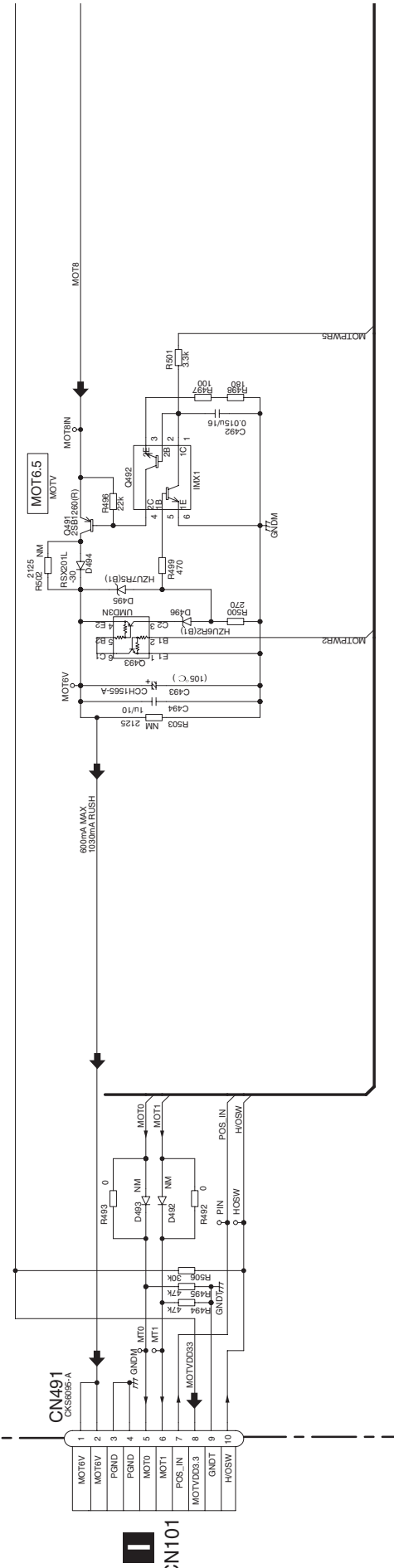
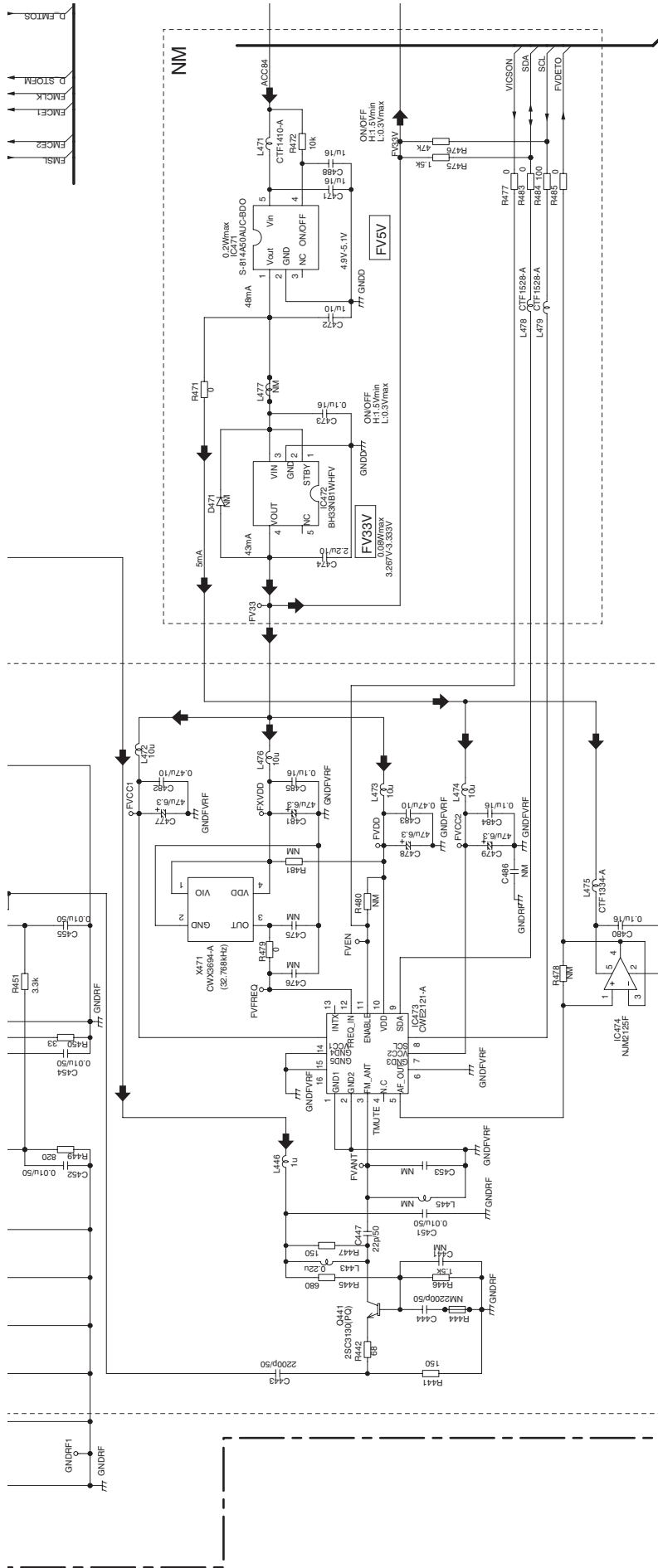
E

F

B-a

FM/AM TUN





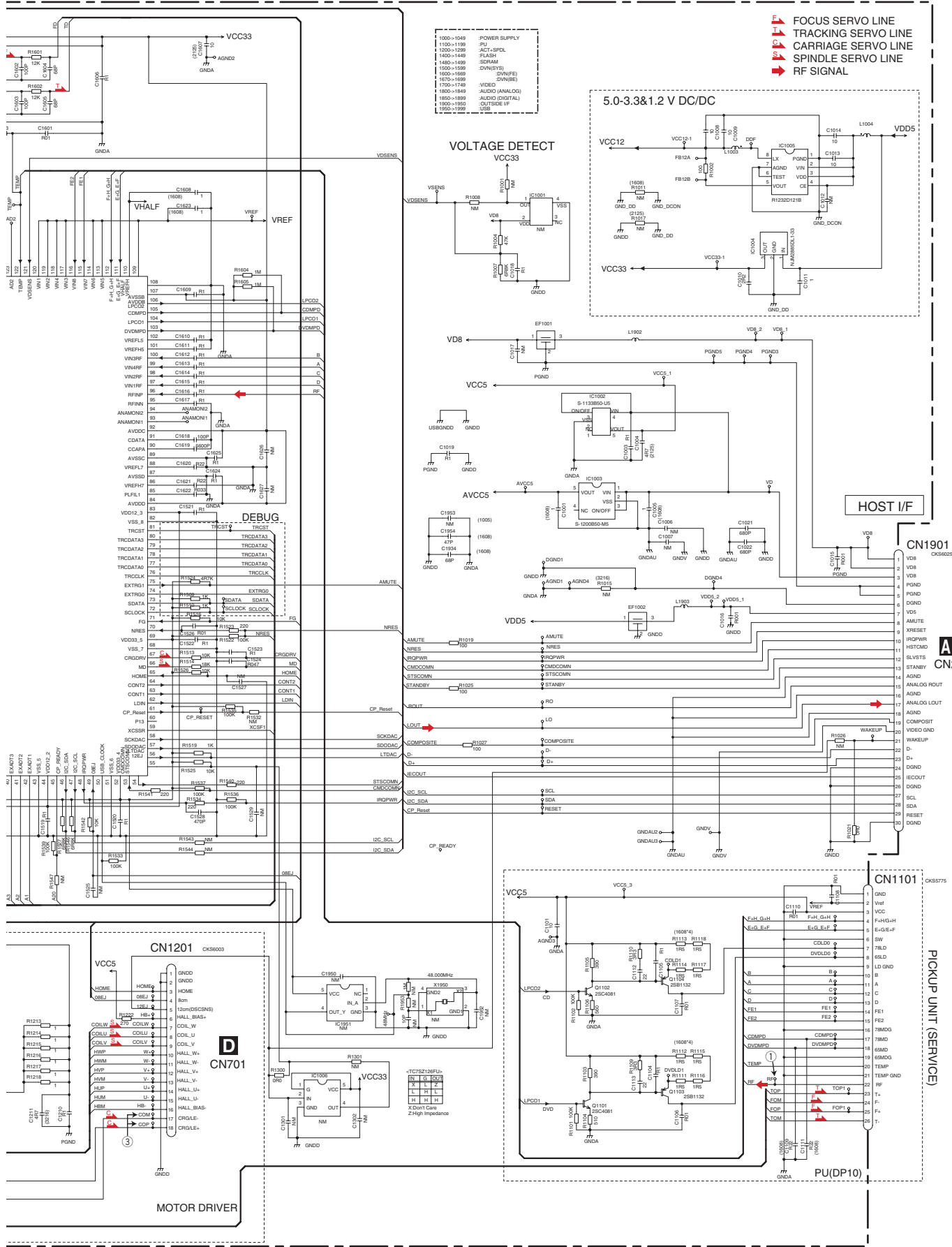
B-b

B-a B-b

B-a

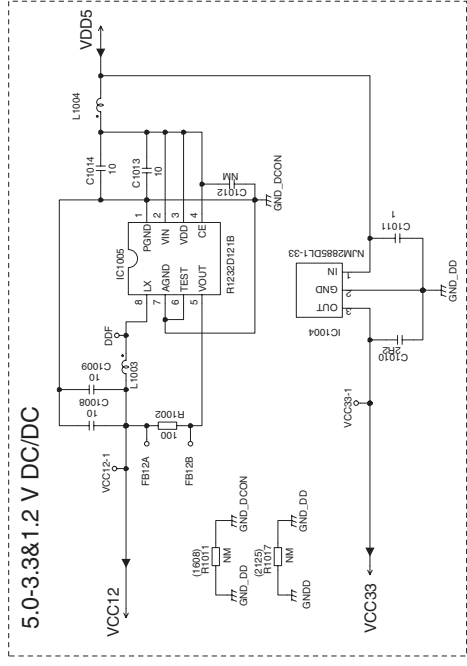
C-b

C DVD CORE UNIT



C DVD CORE UNIT

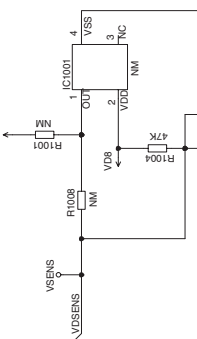
- FOCUS SERVO LINE
- TRACKING SERVO LINE
- CARRIAGE SERVO LINE
- SPINDLE SERVO LINE
- RF SIGNAL



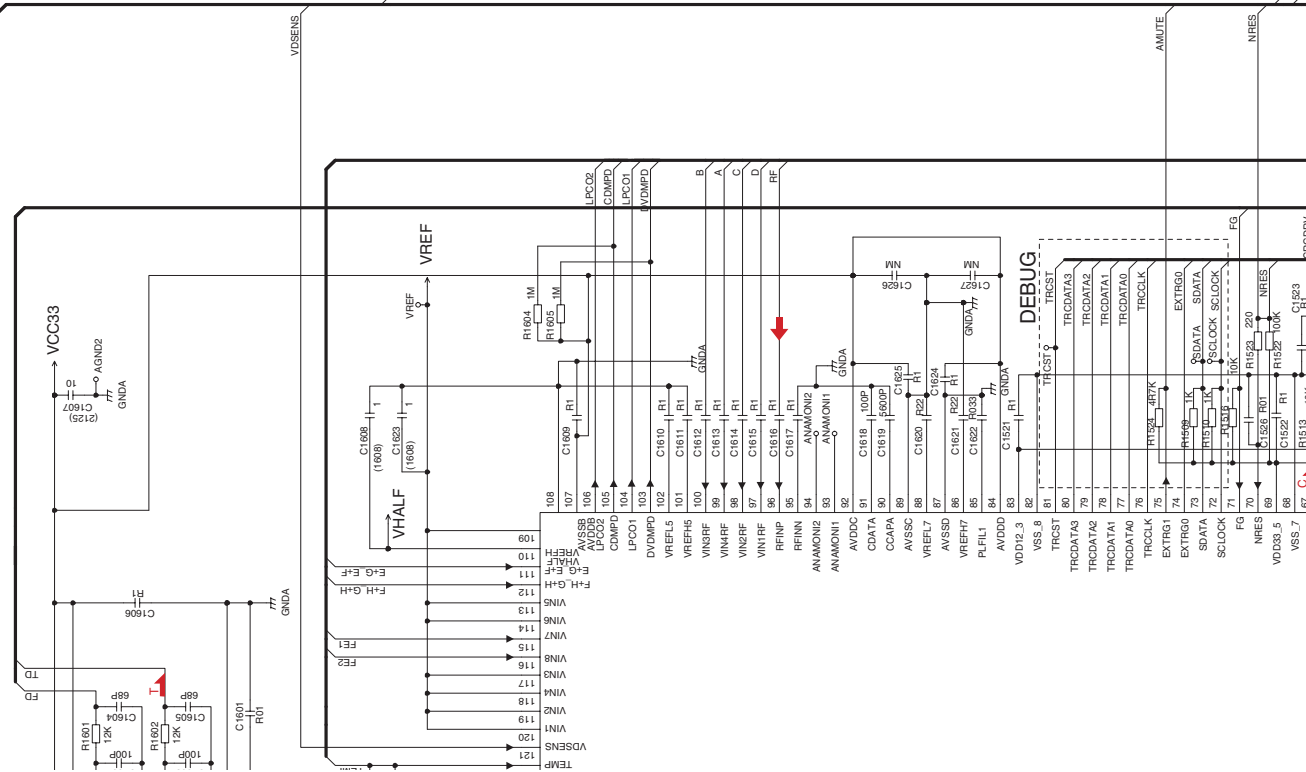
5.0-3.3&1.2 V DC/DC

POWER SUPPLY	ACT-SPDL	FLASH	SDRAM	EEPROM(S)	DYN(BE)	V(DIAG)	AUDIO (ANALOG)	AUDIO (DIGITAL)	OUTSIDE I/F	USP
1000->1049	1000->1049	1000->1049	1400->1499	1500->1599	1600->1699	1700->1749	1800->1899	1900->1950	1950->1999	

VOLTAGE DETECT VCC33



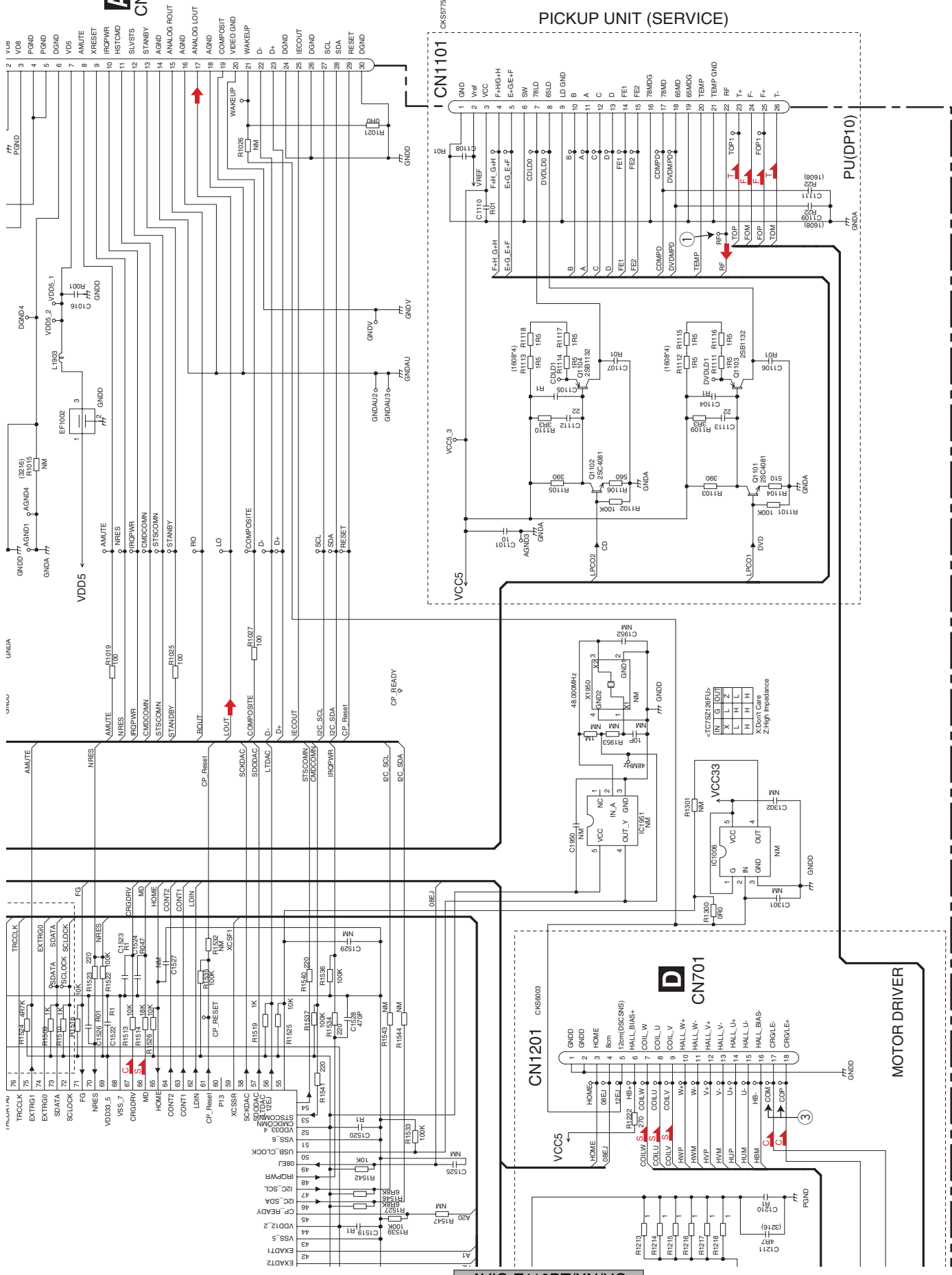
C-a C-b



AVIC-Z110BT/XN/UC

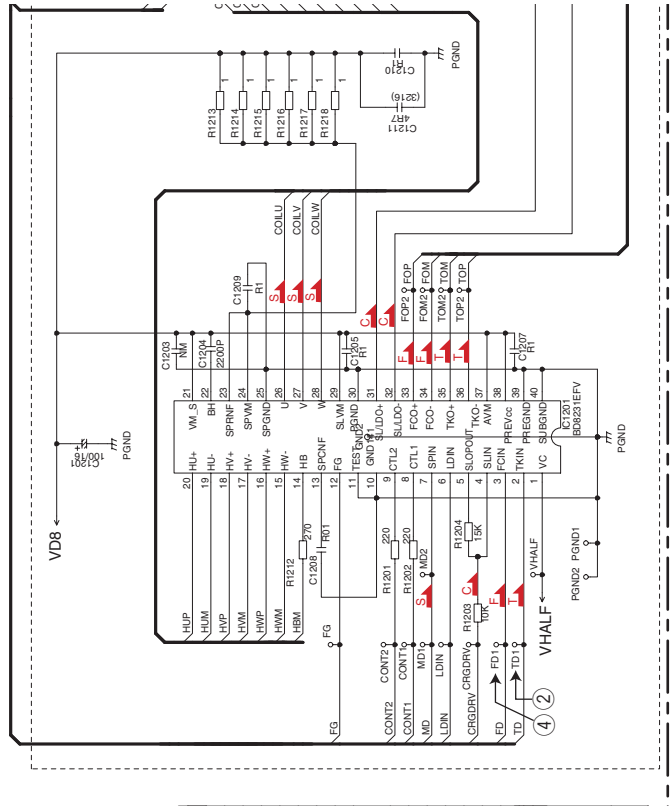
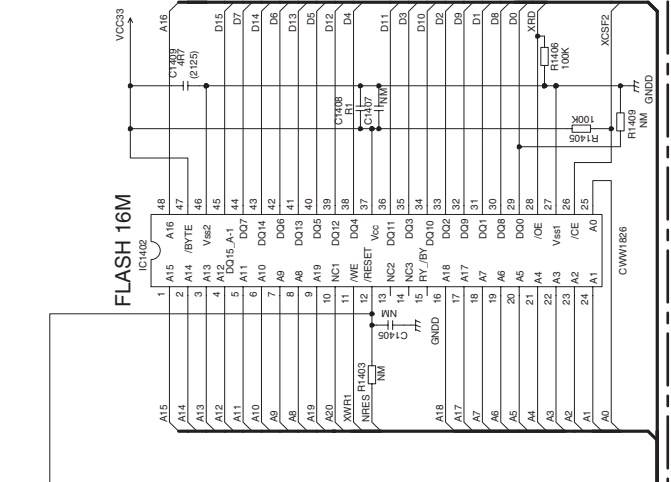
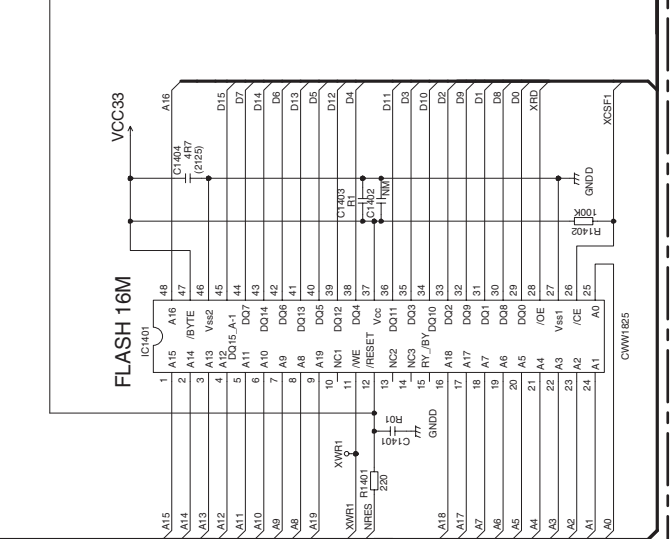
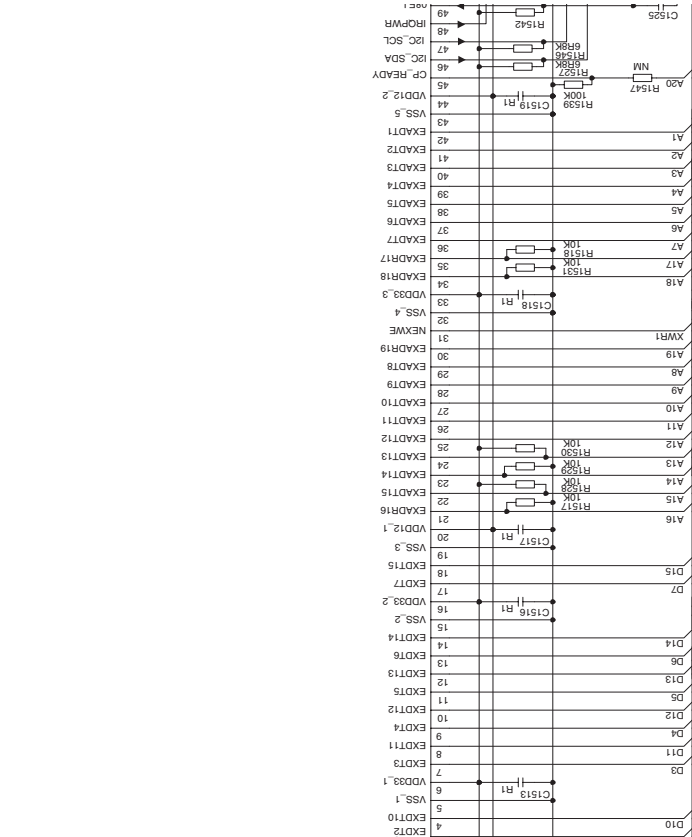
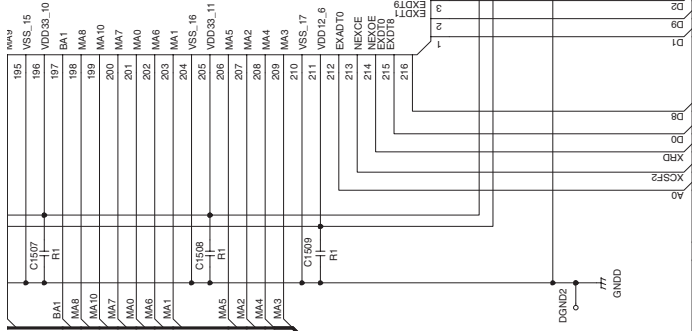
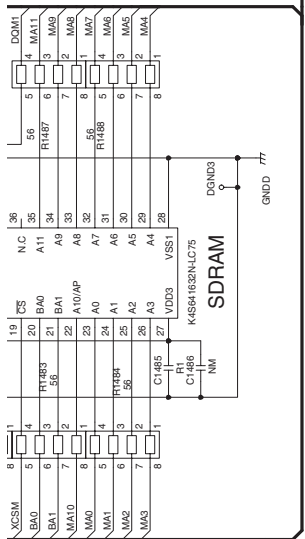
C-b

A2/3
CN2551



C-a C-b

C-b



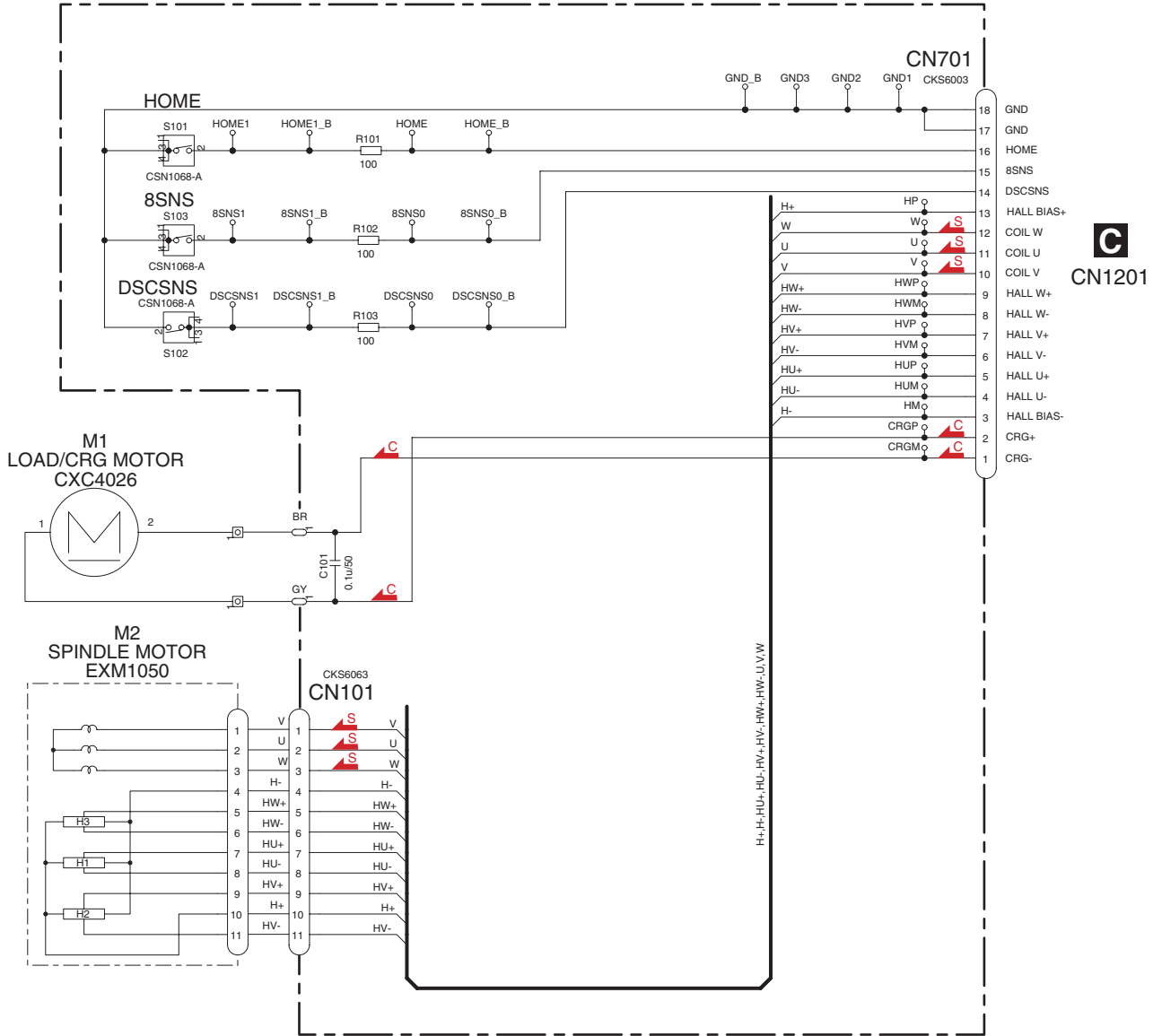
C-b

C-a C-b

C-a

10.6 CONNECT PCB

D CONNECT PCB



A

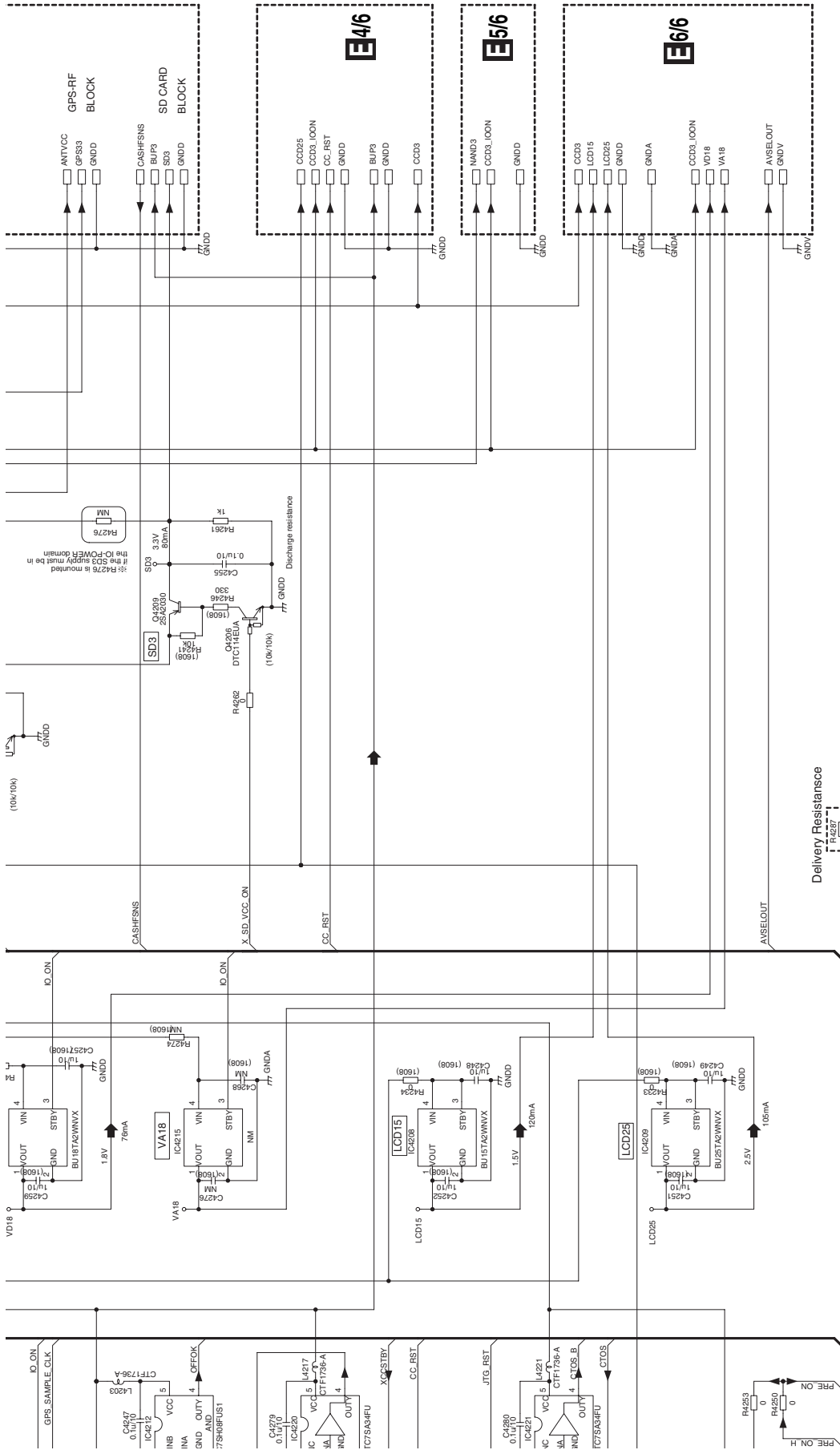
B

C

D

E

F

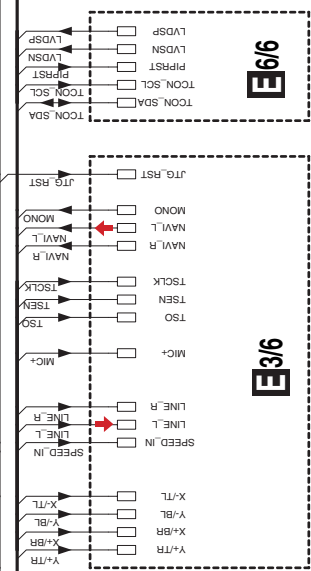
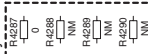


Reference : 4201 ~ 4400

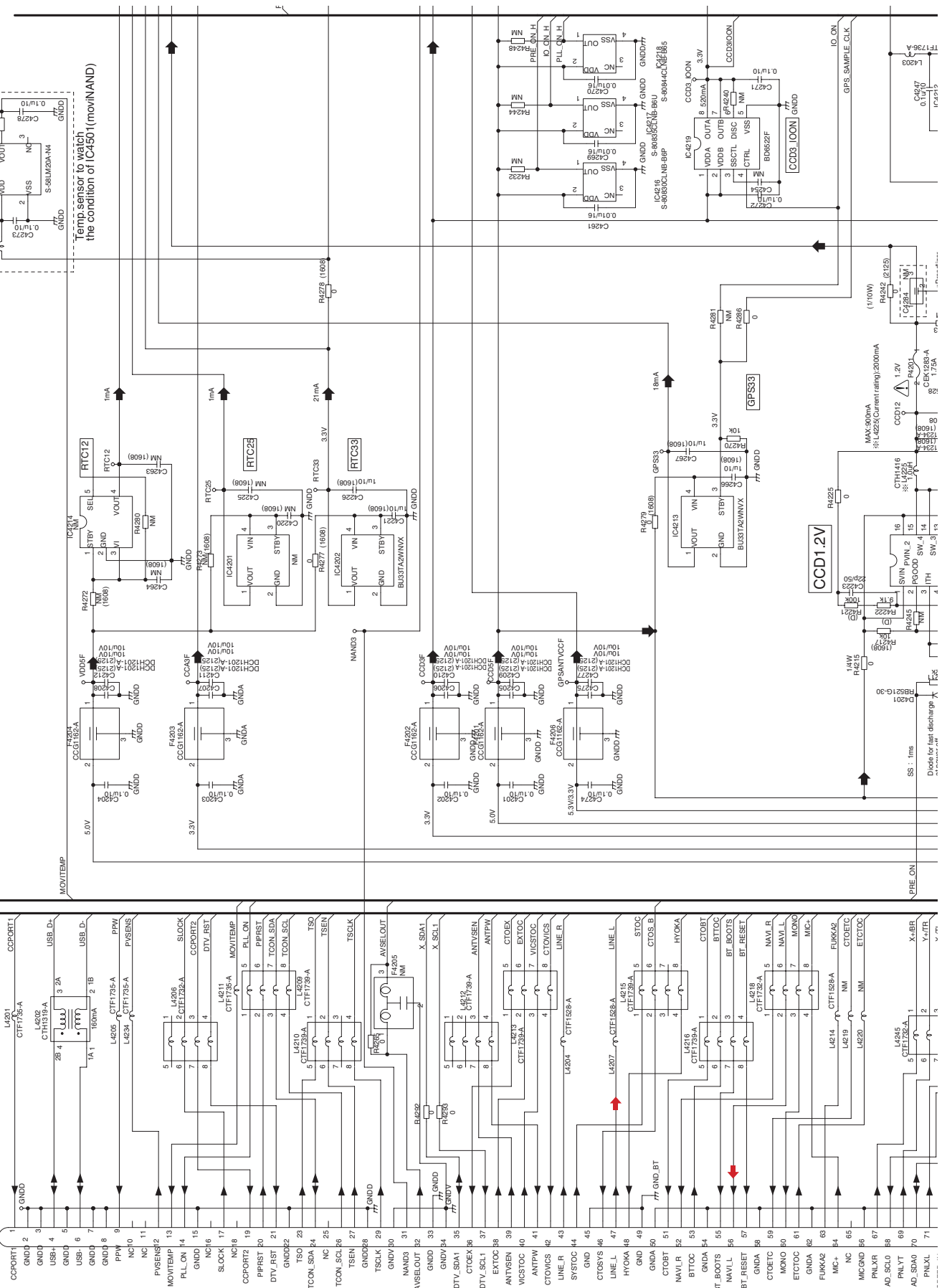
Model Information

Model	EU5/CWN4180-	UWSCWN4181-	UCCWNB18-	AUCWN418B-
R4287	RS11/6SSPROJ-T	NM	NM	RS11/6SSPROJ-T
R4288	NM	RS11/6SSPROJ-T	RS11/6SSPROJ-T	NM
R4289	NM	RS11/6SSPROJ-T	NM	RS11/6SSPROJ-T
R4290	NM	NM	RS11/6SSPROJ-T	RS11/6SSPROJ-T

Delivery Resistance

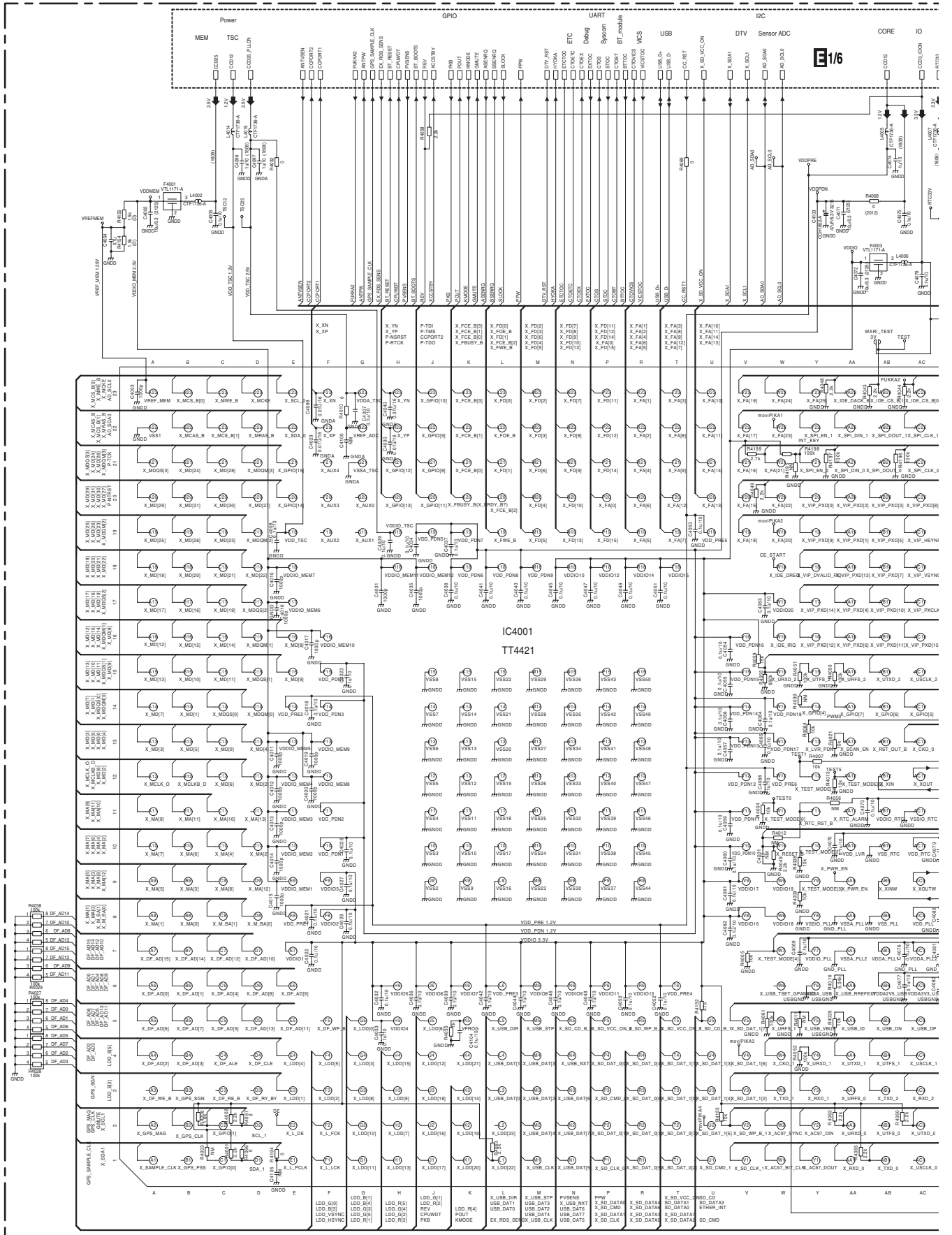


AVIC-Z110BT/XN/UC



10.8 CC UNIT(CPU PART)(GUIDE PAGE)

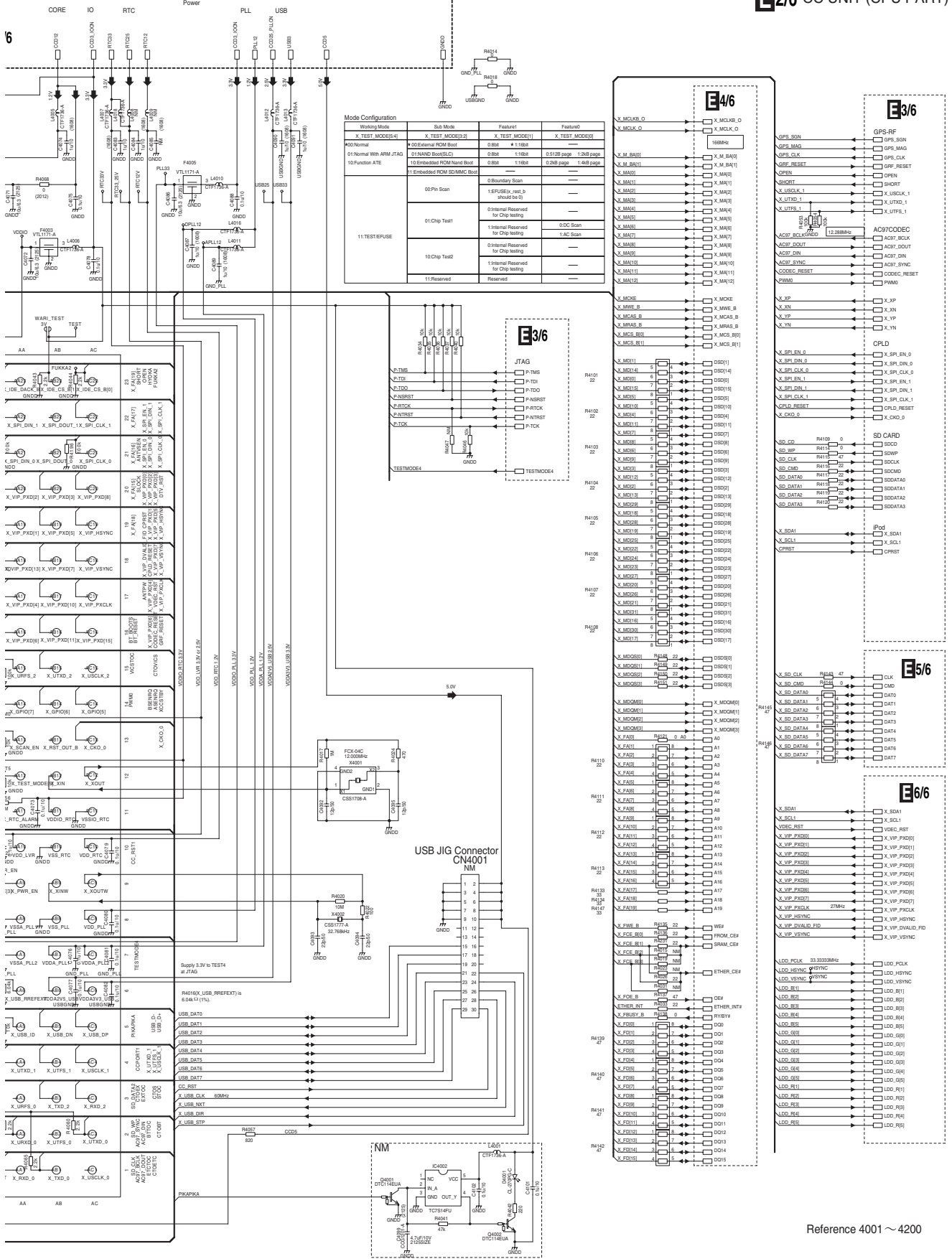
E-a 2/6



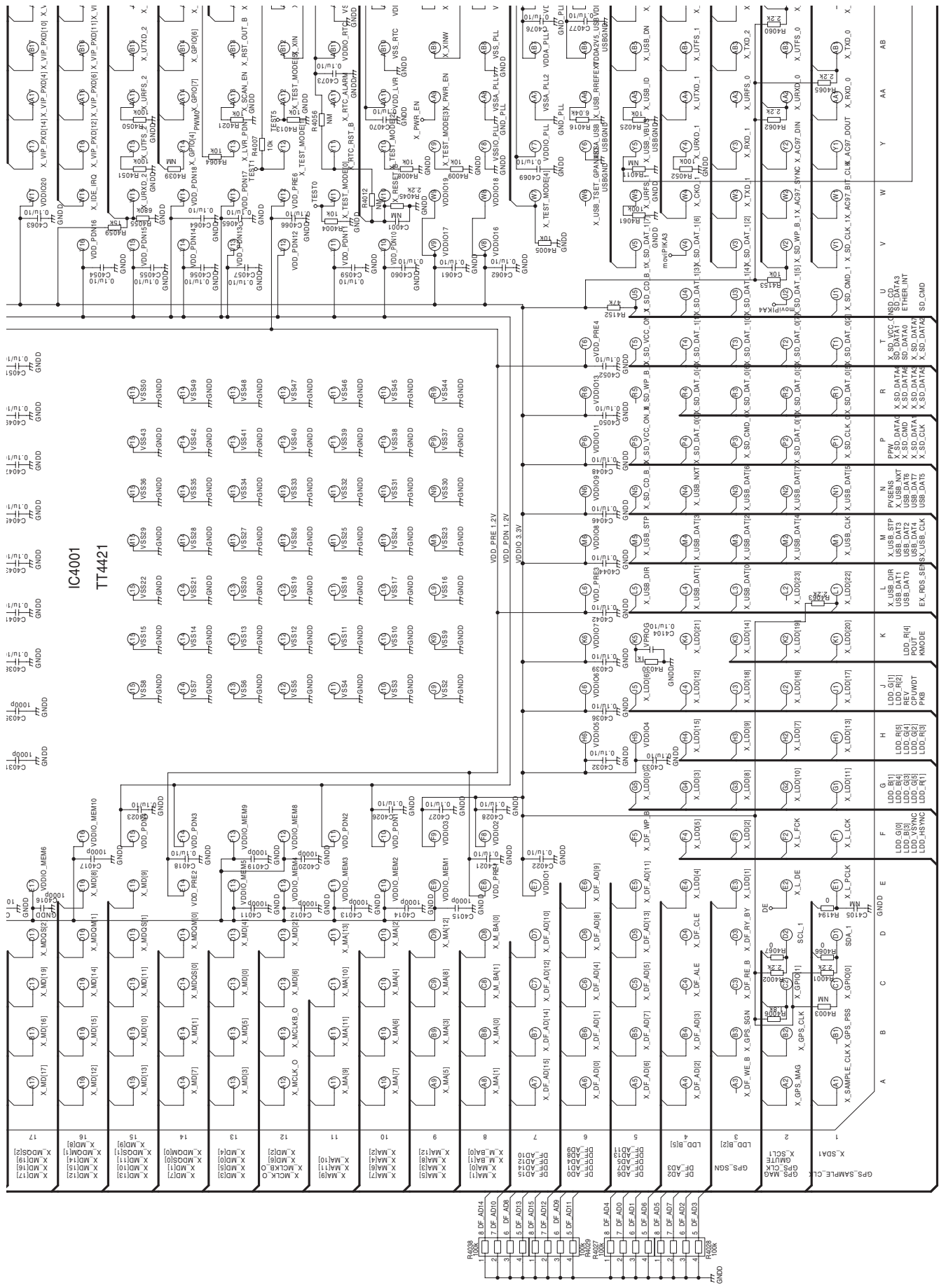
E2/6

E-b 2/6

E2/6 CC UNIT (CPU PART)



Reference 4001 ~ 4200



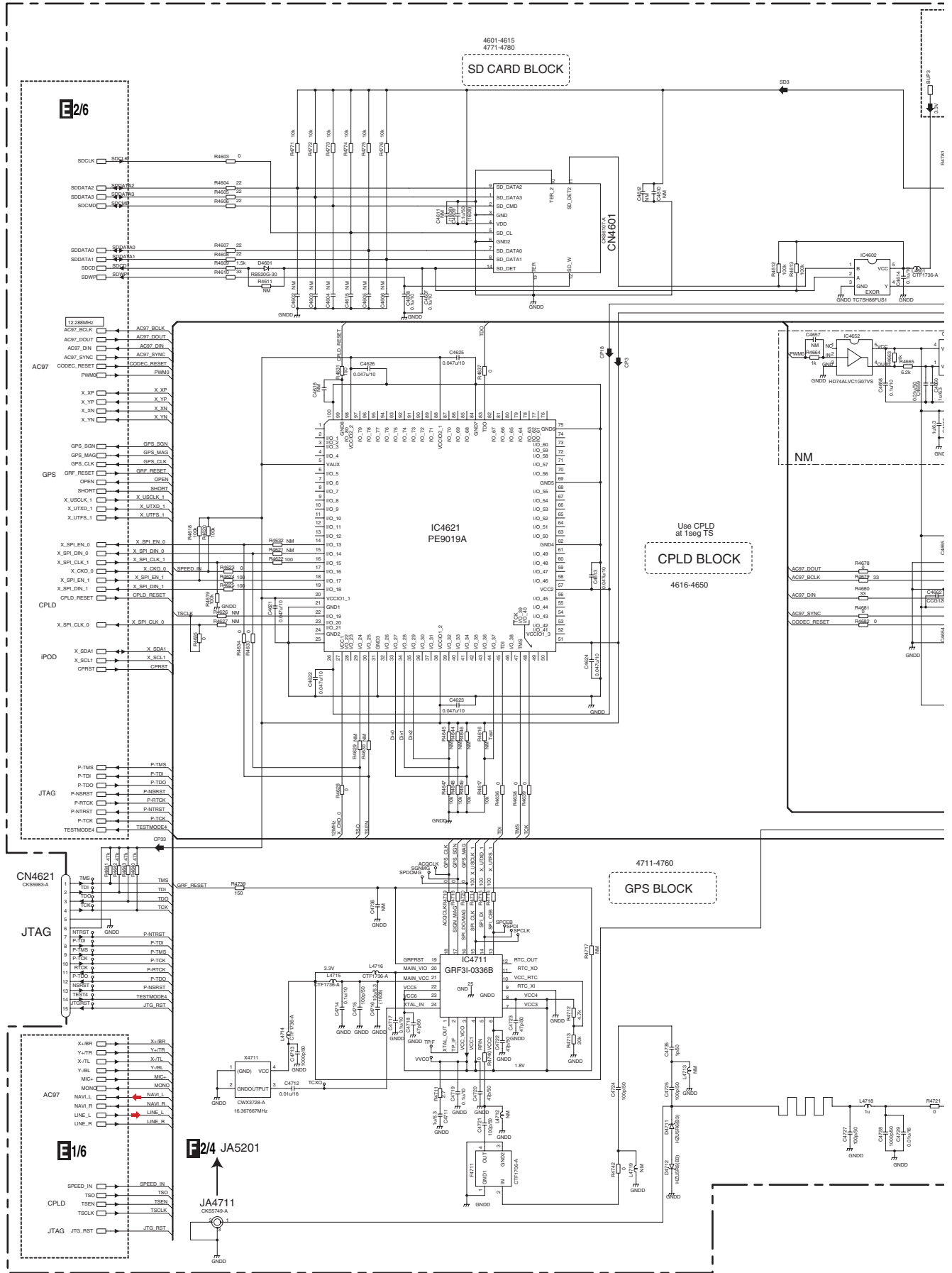
IC4001
TT4421

E-a E-b

E-b 2/6

10.9 CC UNIT(CPU SURROUNDING PART)(GUIDE PAGE)

E-a 3/6

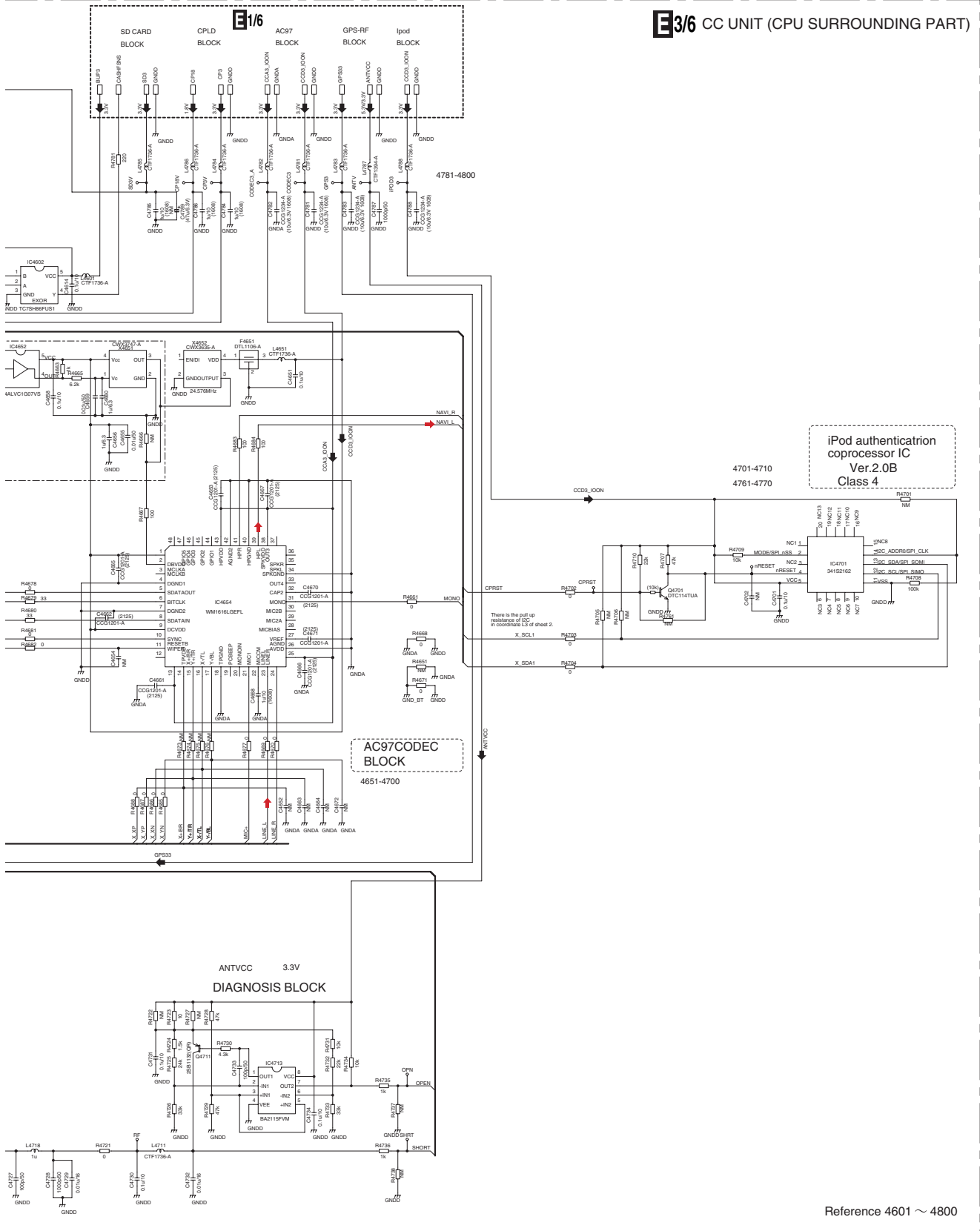


AVIC-Z110BT/XN/UC

E 3/6

E-b 3/6

E3/6 CC UNIT (CPU SURROUNDING PART)



Reference 4601 ~ 4800



1 2 3 4

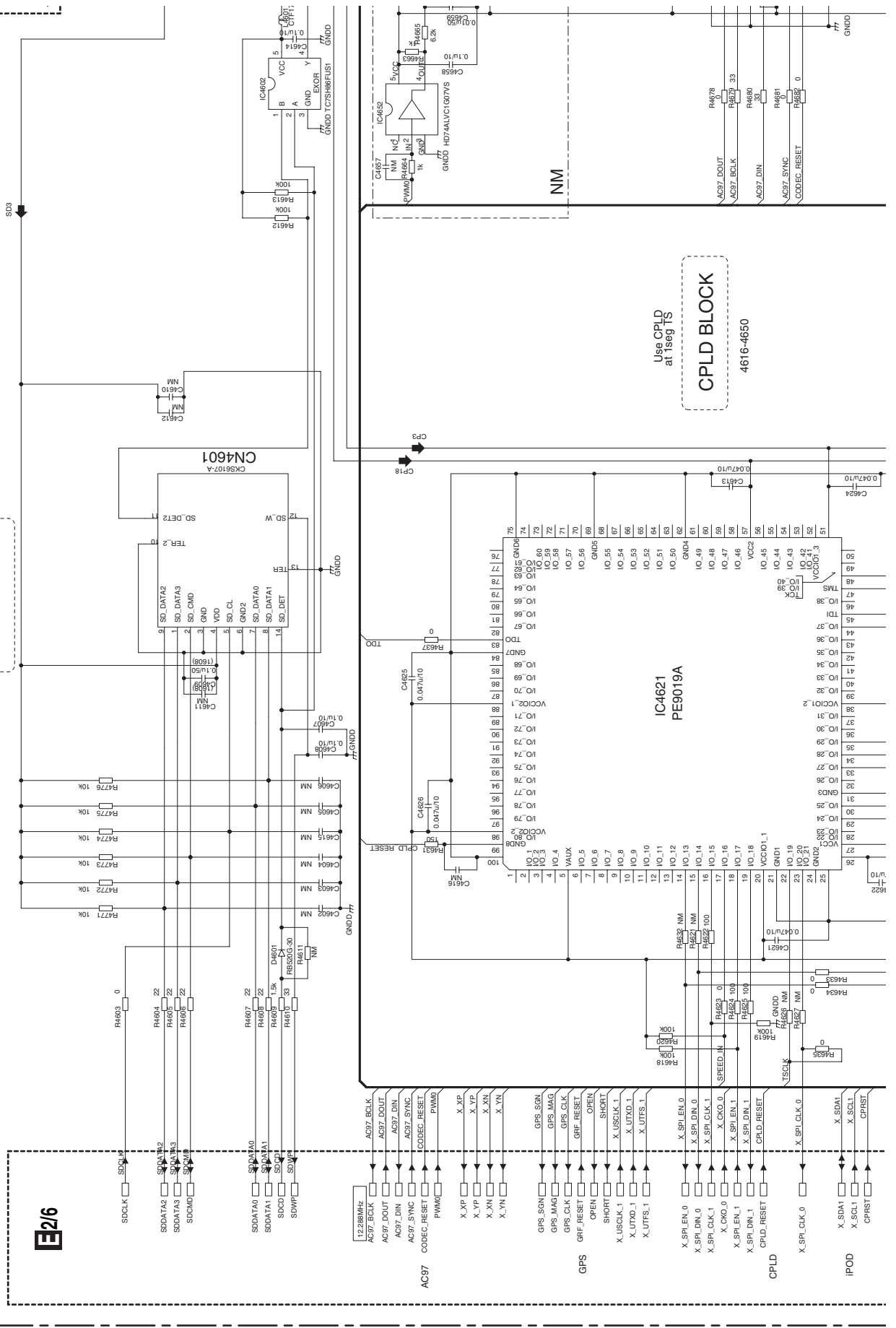
A B C D E F

4601-4615
4771-4780

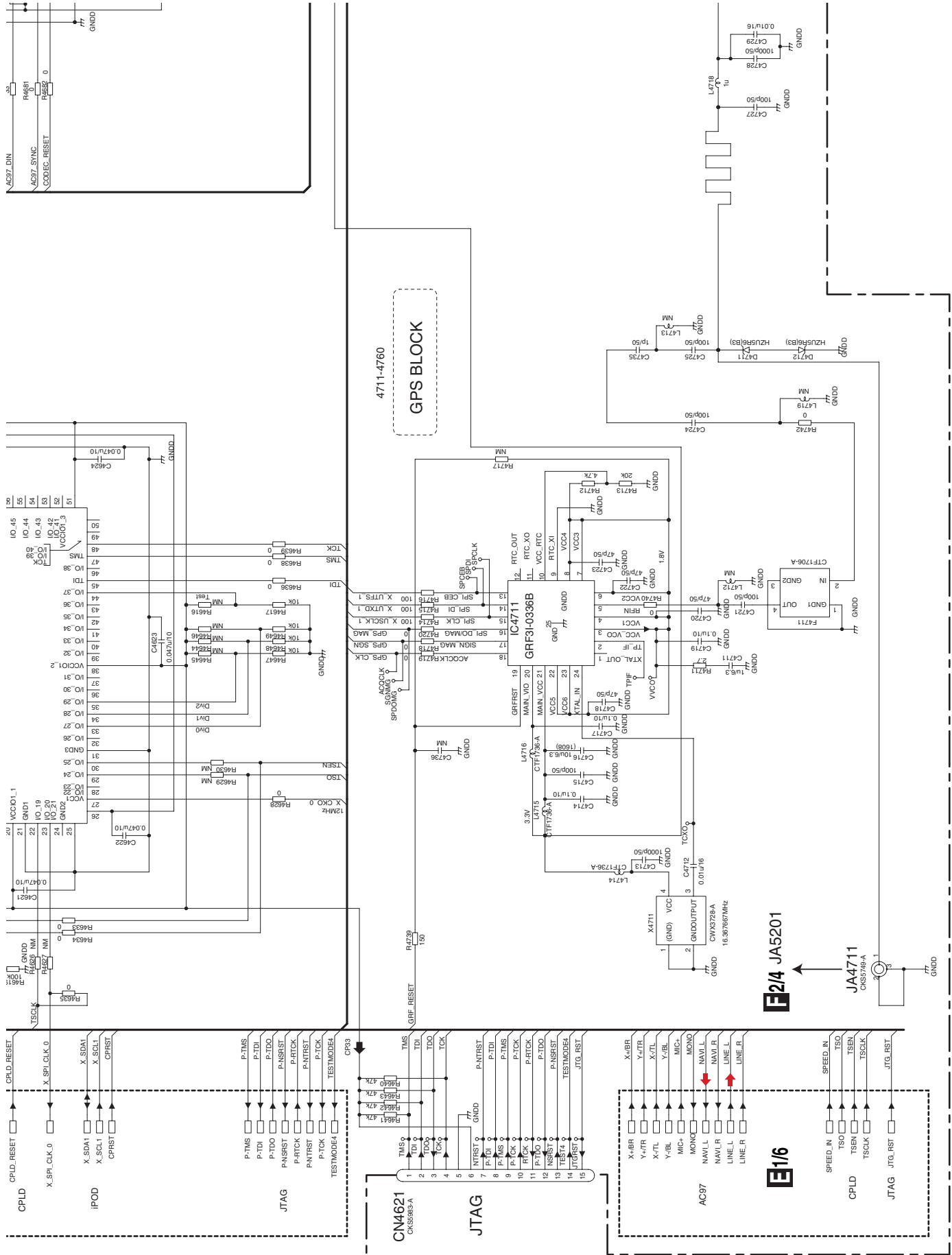
SD CARD BLOCK

E216

Use CPLD
at 1589 TS
CPLD BLOCK
4616-4650



1 2 3 4



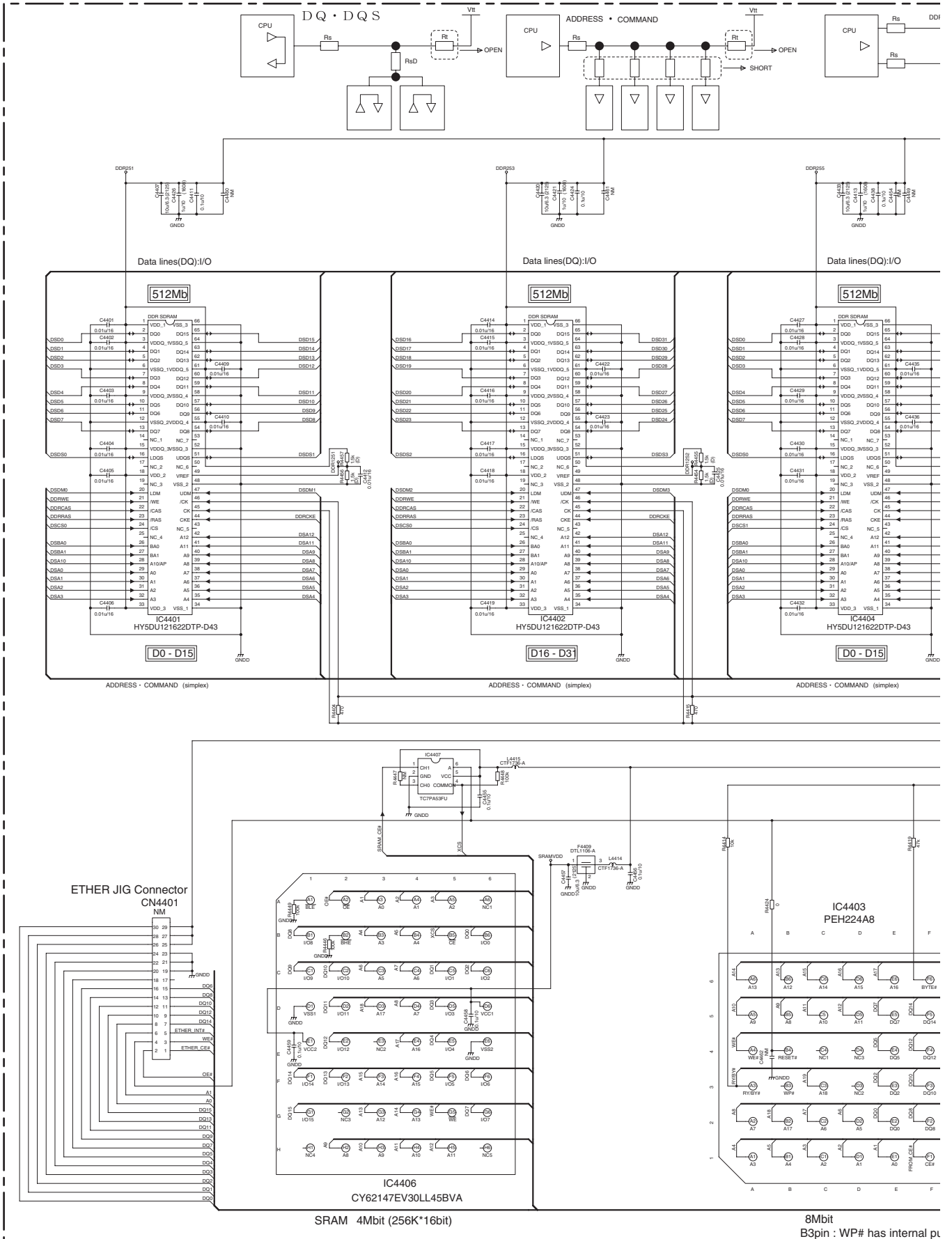
E-b 3/6

E-a E-b

E-a 3/6

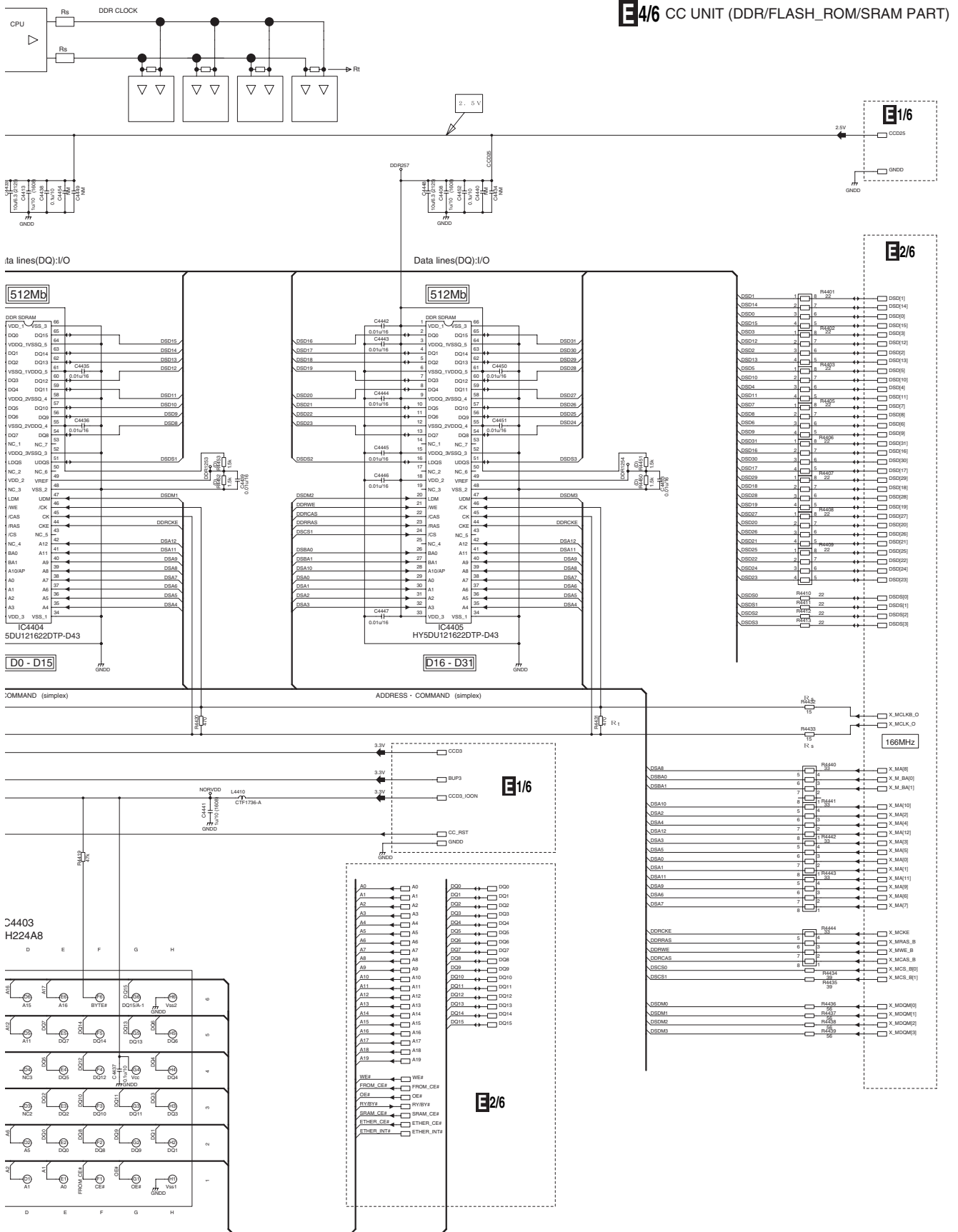
10.10 CC UNIT(DDR/FLASH_ROM/SRAM PART)(GUIDE PAGE)

E-a 4/6



E-b 4/6

E4/6 CC UNIT (DDR/FLASH_ROM/SRAM PART)



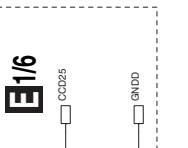
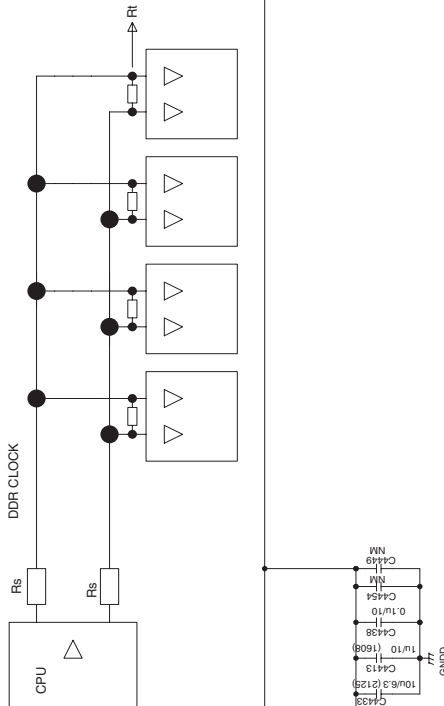
WP# has internal pull-up.

Referene 4401 ~ 4500

E-b 4/6

E-a E-b

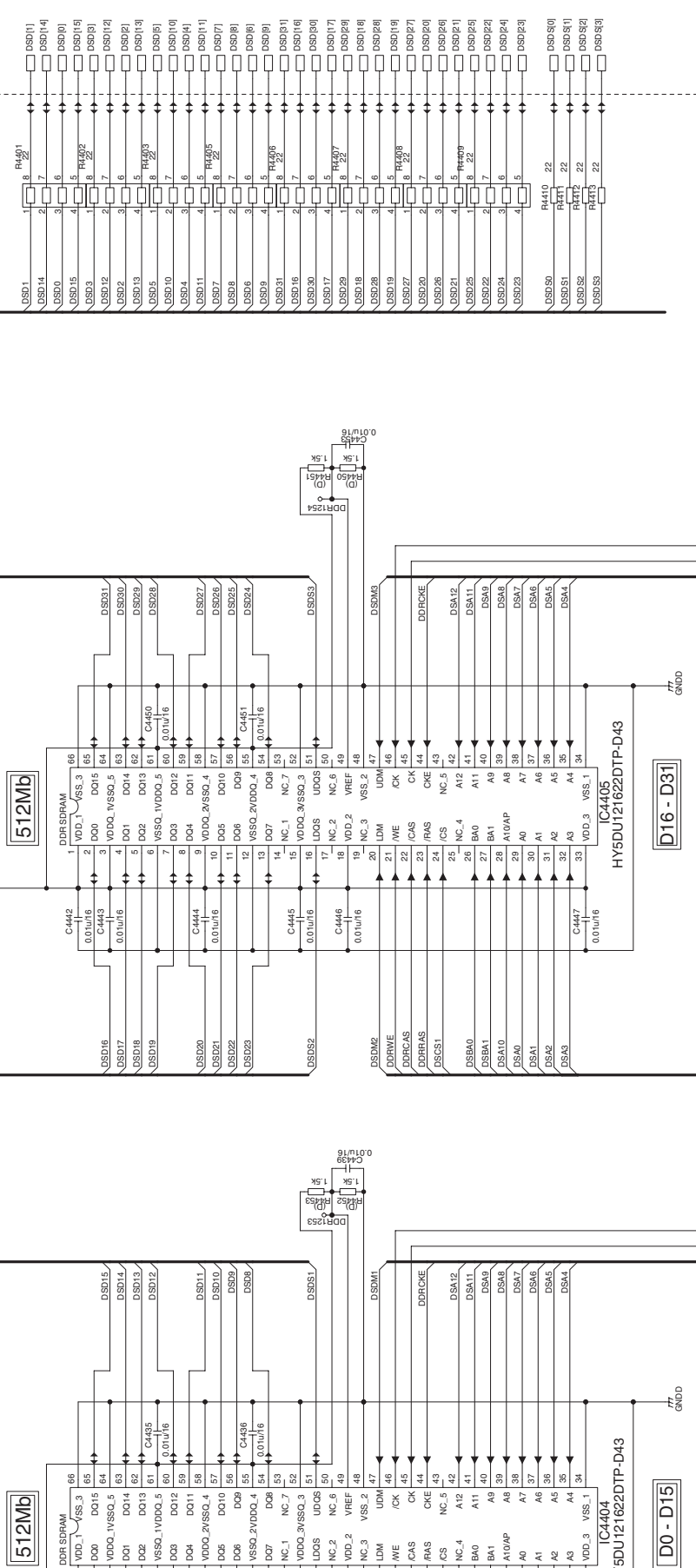
E/4/6 CC UNIT (DDR/FLASH_ROM/SSRAM PART)



AVIC-Z110BT/XN/UC

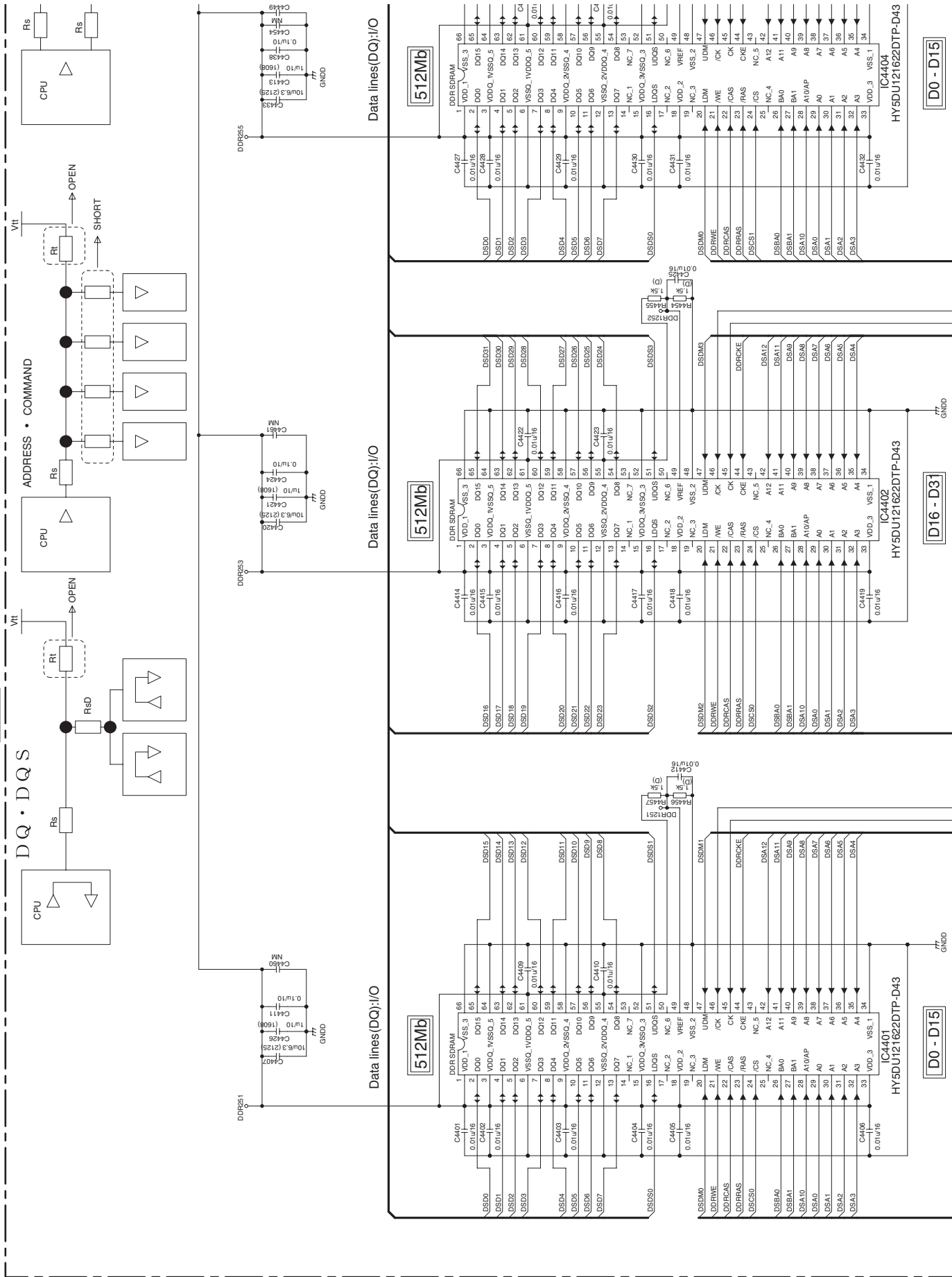
E/2/6

Data lines(DQ):I/O



E-b 4/6

E-a E-b



Data lines(DQ):I/O

Data lines(DQ):I/O

Data lines(DQ):I/O

512Mb

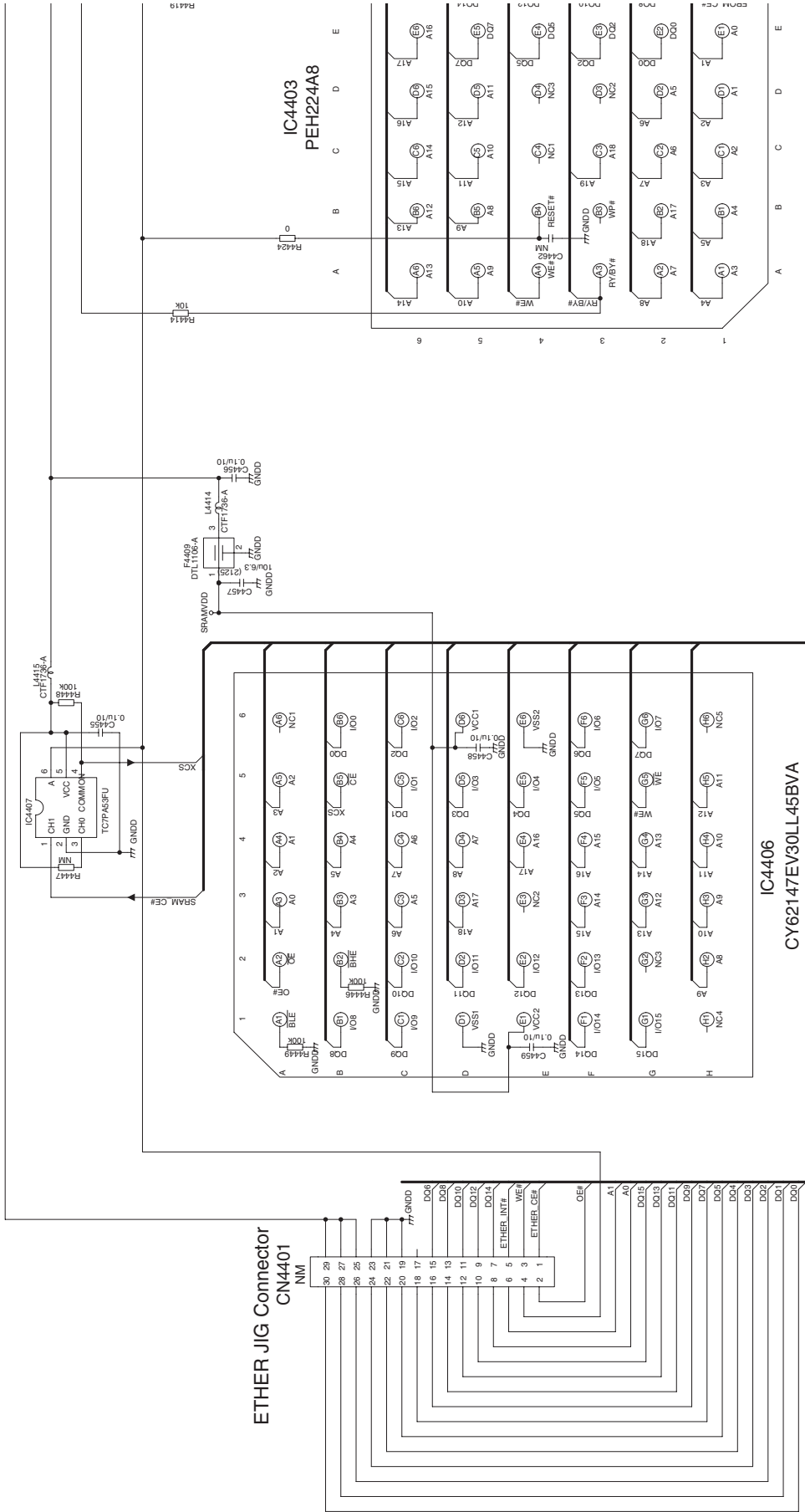
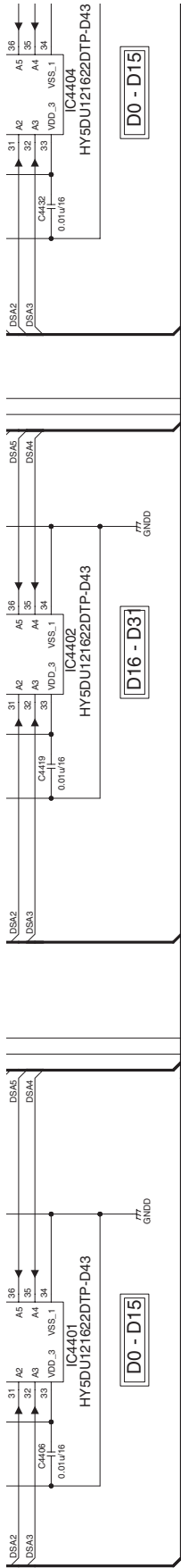
512Mb

512Mb

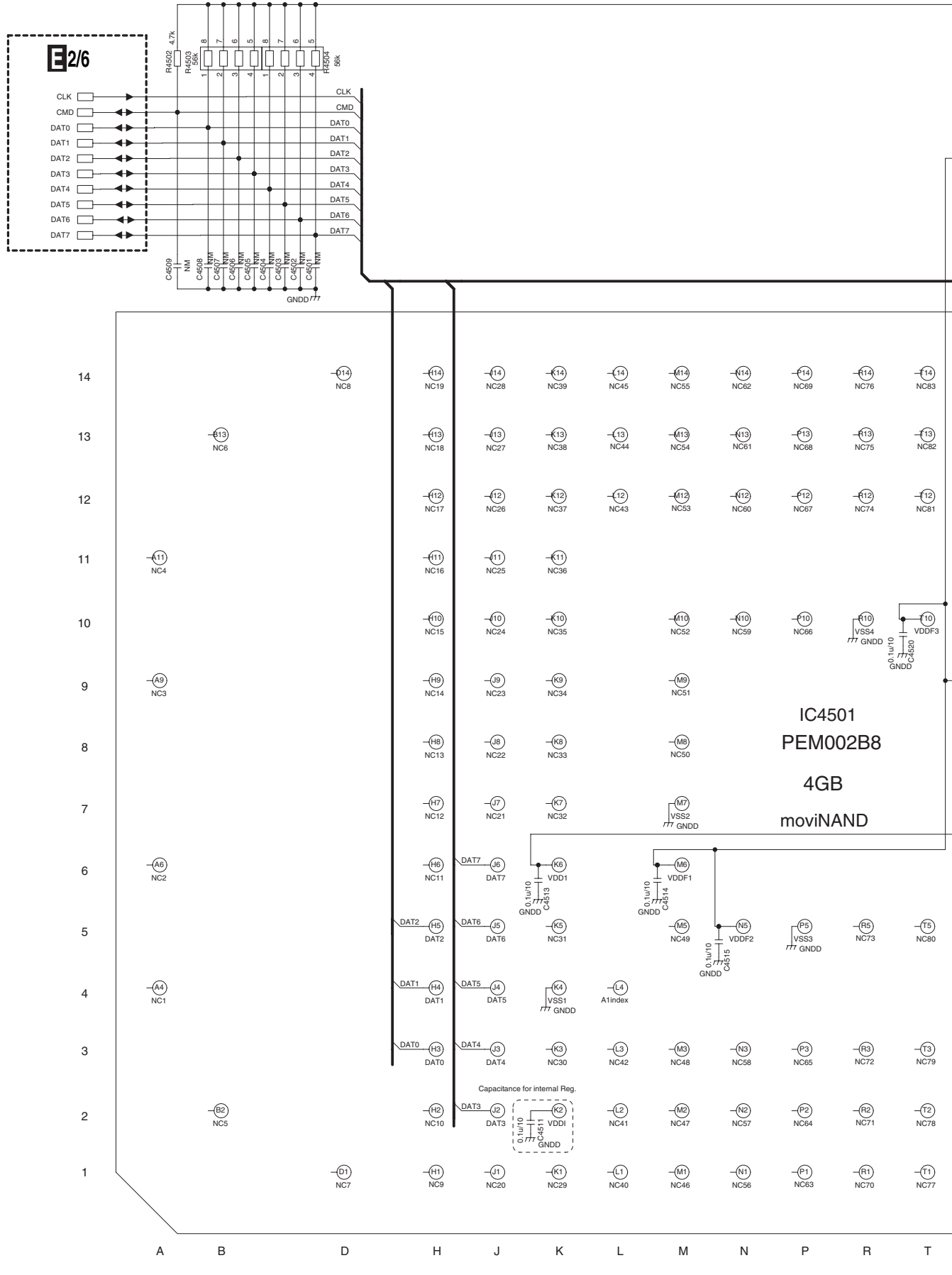
D0 - D15

D16 - D31

D0 - D15

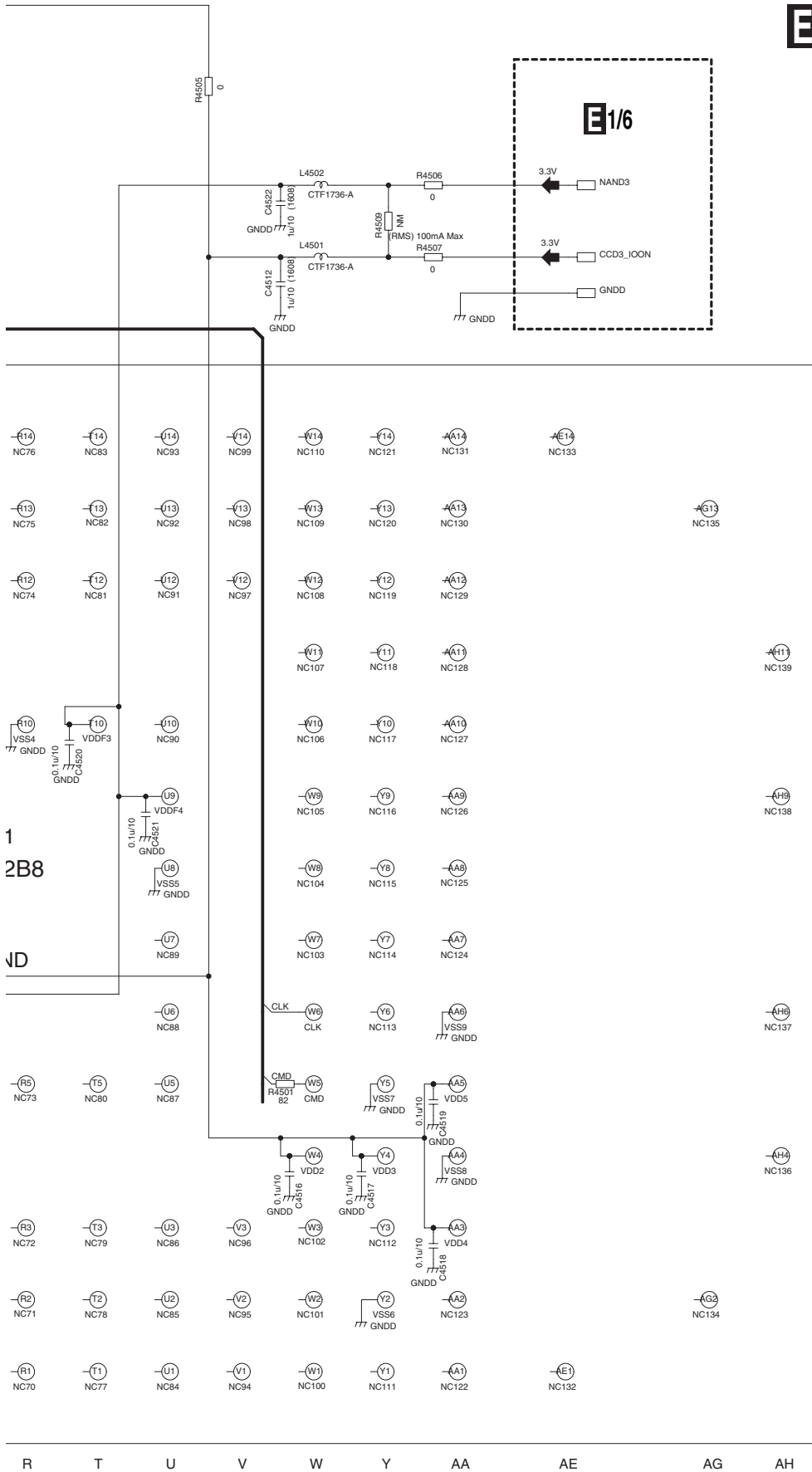


10.11 CC UNIT(NAND PART)



E5/6 CC UNIT (NAND PART)

E1/6

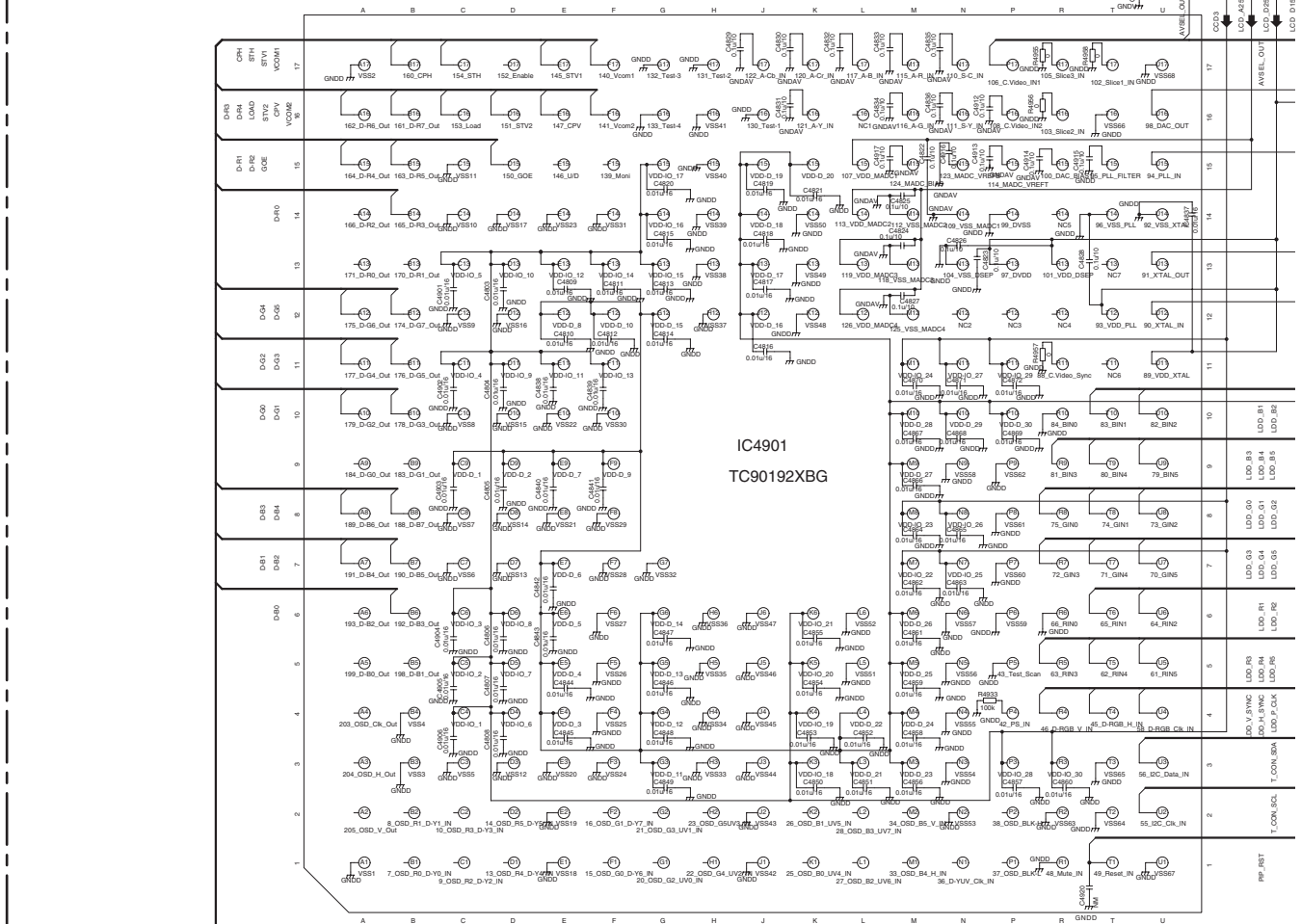
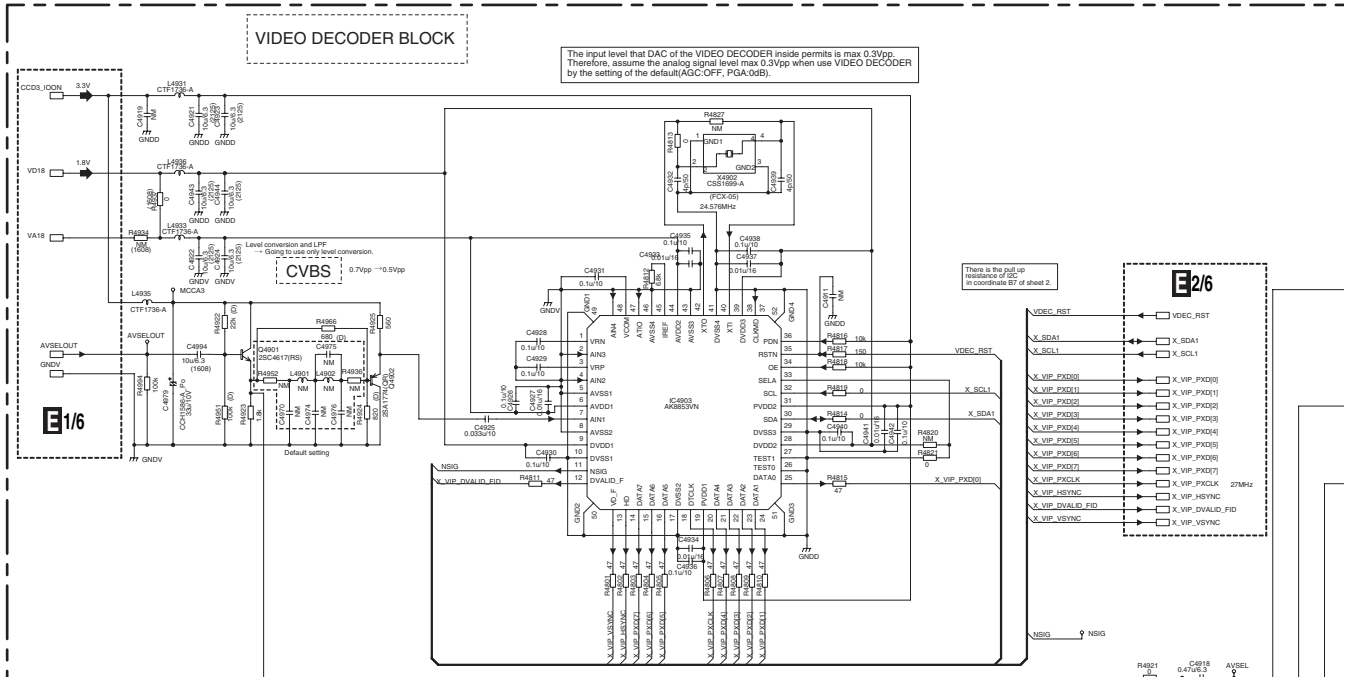


1
2B8
1D

Reference 4501 ~ 4600

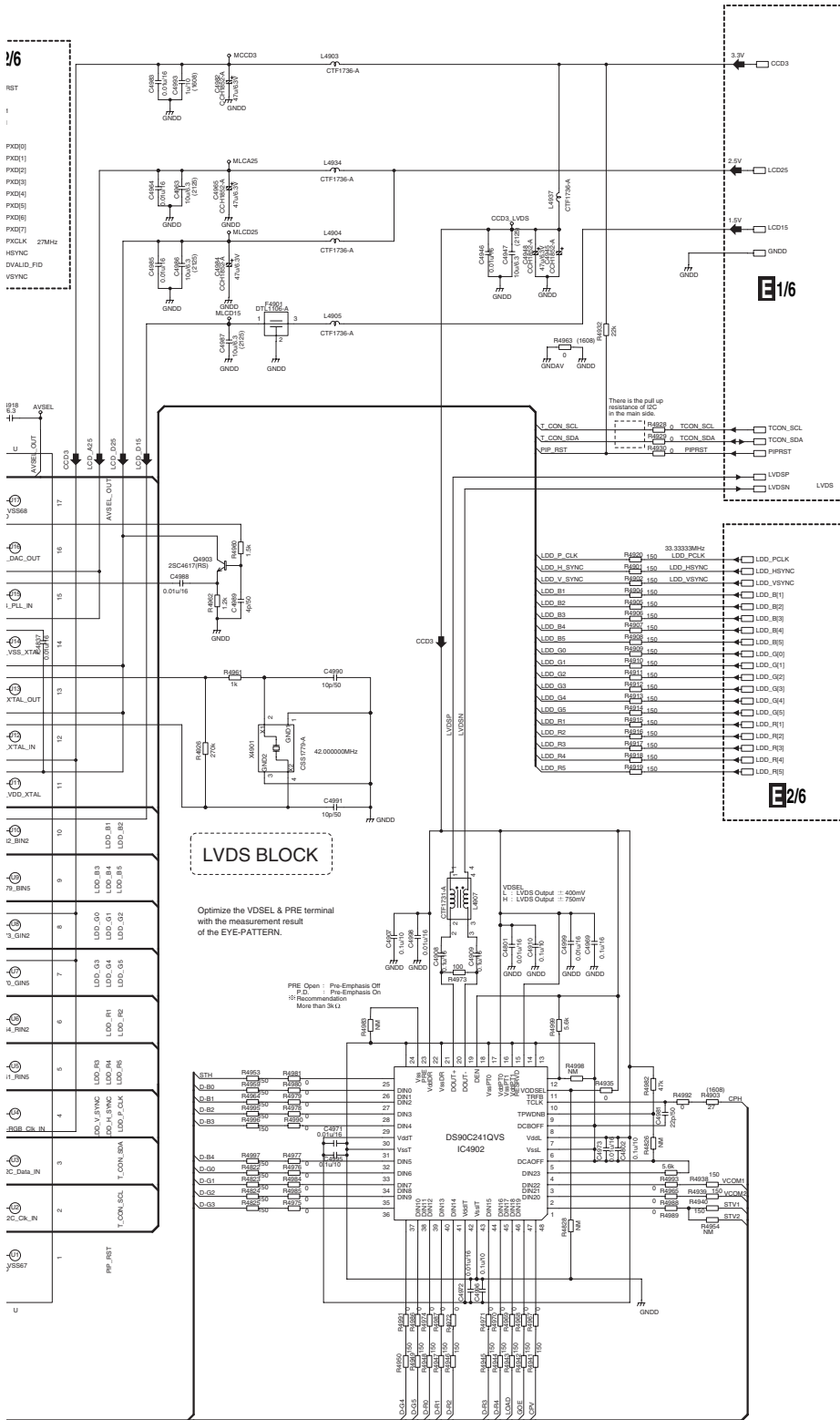
10.12 CC UNIT(VIDEO DEC./T-CON/LVDS PART)(GUIDE PAGE)

E-a 6/6



E-b 6/6

E/6 CC UNIT (VIDEO DEC./T-CON/LVDS PART)



- 1/6
- RST
- 1
- PKX[0]
- PKX[1]
- PKX[2]
- PKX[3]
- PKX[4]
- PKX[5]
- PKX[6]
- PKX[7]
- PKCLK 27MHz
- HSYNC
- DVALID_FID
- VSYNC
- IP1P
- AVSEL
- AVSEL_OUT
- U
- VCS88
- DAC_OUT
- 17
- 15
- 14
- 13
- 12
- 11
- 10
- 9
- 8
- 7
- 6
- 5
- 4
- 3
- 2
- 1
- U

Prima → T-CON connection

Prima terminal name	Signal name	T-CON input terminal name
X_L_PCK	LDD_PCLK	D-RGB_CLK_IN
X_L_LCK	LDD_HSYNC	D-RGB_H_IN
X_L_FCK	LDD_VSYNC	D-RGB_V_IN
X_LDD_0	LDD_B[1]	BIN1
X_LDD_1	LDD_B[2]	BIN2
X_LDD_2	LDD_B[3]	BIN3
X_LDD_3	LDD_B[4]	BIN4
X_LDD_4	LDD_B[5]	BIN5
X_LDD_5	LDD_G[0]	GIN0
X_LDD_6	LDD_G[1]	GIN1
X_LDD_7	LDD_G[2]	GIN2
X_LDD_8	LDD_G[3]	GIN3
X_LDD_9	LDD_G[4]	GIN4
X_LDD_10	LDD_G[5]	GIN5
X_LDD_11	LDD_R[1]	RIN1
X_LDD_12	LDD_R[2]	RIN2
X_LDD_13	LDD_R[3]	RIN3
X_LDD_14	LDD_R[4]	RIN4
X_LDD_15	LDD_R[5]	RIN5

T-CON → LVDS connection

T-CON output terminal name	Signal name	LVDS terminal name
CPH	CPH	TCLK
STH	STH	Din(0)
STV1	STV1	Din(20)
Vcom1	VCOM1	Din(22)
Vcom2	VCOM2	Din(21)
CPV	CPV	Din(19)
Load	LOAD	Din(17)
GOE	GOE	Din(18)
D-B3_Out	D-B0	Din(1)
D-B4_Out	D-B1	Din(2)
D-B5_Out	D-B2	Din(3)
D-B6_Out	D-B3	Din(4)
D-B7_Out	D-B4	Din(5)
D-G2_Out	D-G0	Din(6)
D-G3_Out	D-G1	Din(7)
D-G4_Out	D-G2	Din(8)
D-G5_Out	D-G3	Din(9)
D-G6_Out	D-G4	Din(10)
D-G7_Out	D-G5	Din(11)
D-R3_Out	D-R0	Din(12)
D-R4_Out	D-R1	Din(13)
D-R5_Out	D-R2	Din(14)
D-R6_Out	D-R3	Din(15)
D-R7_Out	D-R4	Din(16)

Reference 4801 ~ 4999

E6/6 CC UNIT (VIDEO DEC./T-CON/LVDS PART)

E-a E-b

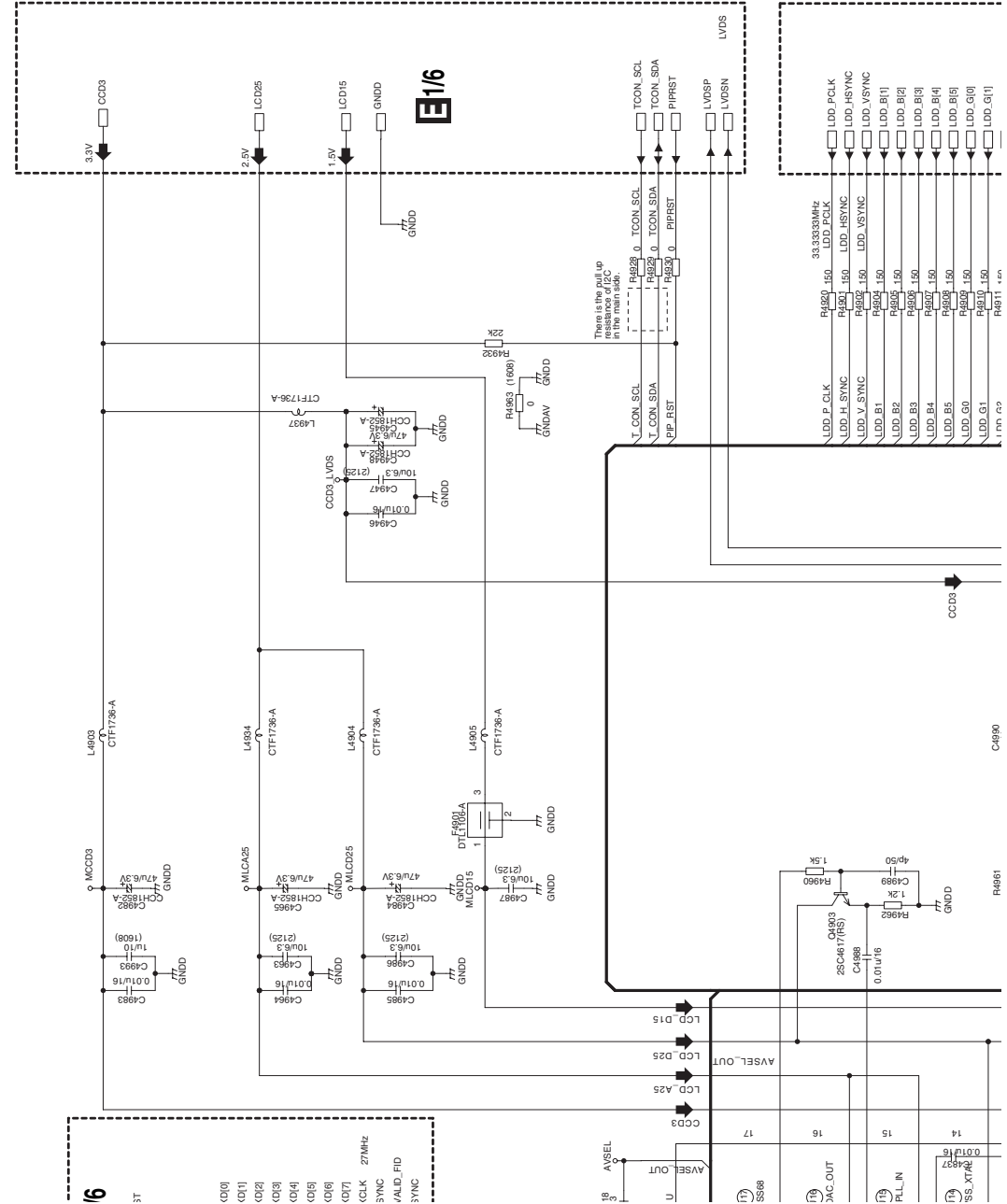
E-b 6/6

Prima → T-CON connection

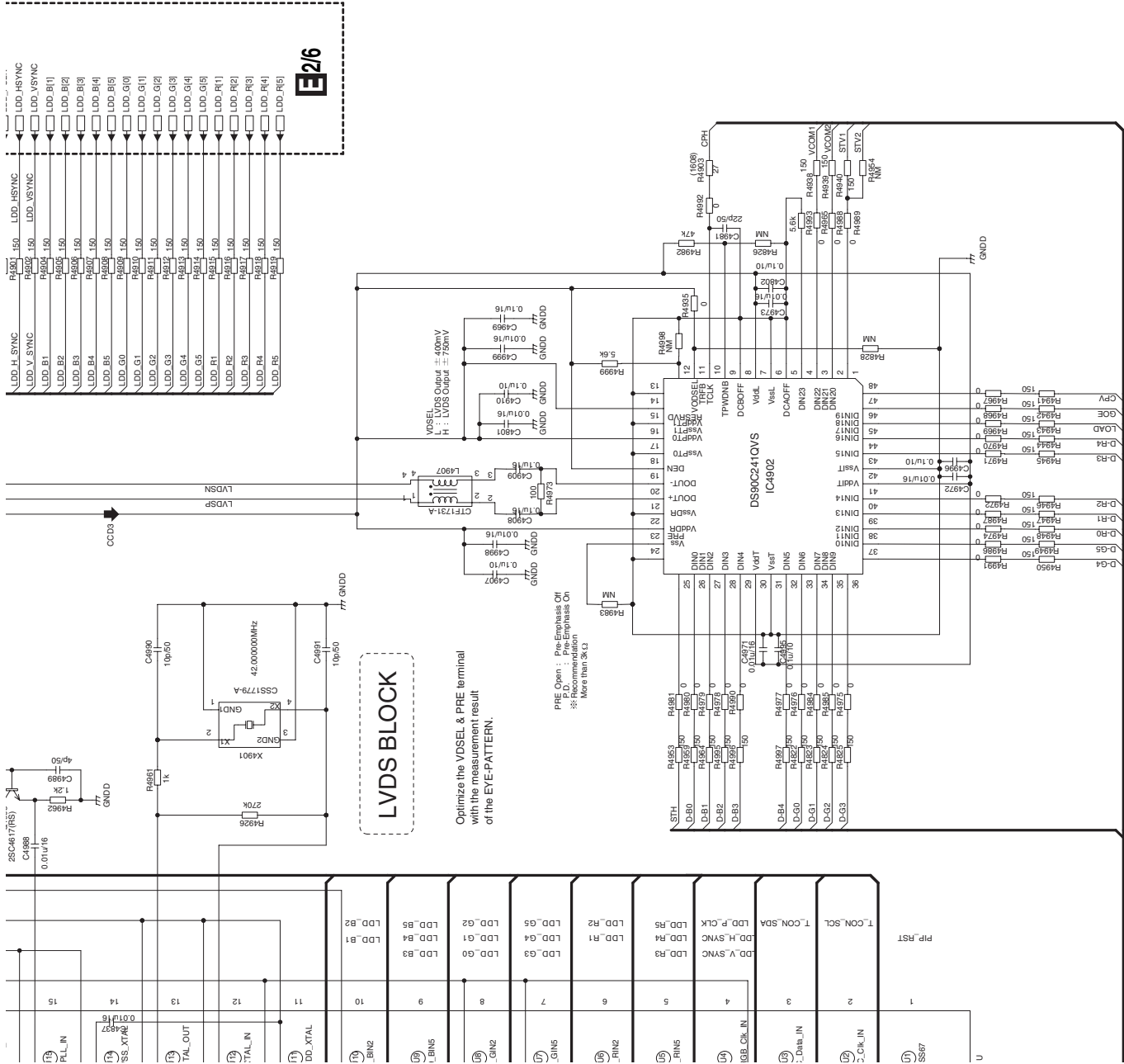
Prima terminal name	Signal name	T-CON input terminal name
X_L_PCK	LDD_PCLK	D-RGB_CLK_IN
X_L_LCK	LDD_HSYNC	D-RGB_H_IN
X_L_FCK	LDD_VSYNC	D-RGB_V_IN
X_LDD_0	LDD_B[1]	BIN1
X_LDD_1	LDD_B[2]	BIN2
X_LDD_2	LDD_B[3]	BIN3
X_LDD_3	LDD_B[4]	BIN4
X_LDD_4	LDD_B[5]	BIN5
X_LDD_5	LDD_G[0]	GIN0
X_LDD_6	LDD_G[1]	GIN1
X_LDD_7	LDD_G[2]	GIN2
X_LDD_8	LDD_G[3]	GIN3
X_LDD_9	LDD_G[4]	GIN4
X_LDD_10	LDD_G[5]	GIN5
X_LDD_11	LDD_R[1]	RIN1
X_LDD_12	LDD_R[2]	RIN2
X_LDD_13	LDD_R[3]	RIN3
X_LDD_14	LDD_R[4]	RIN4
X_LDD_15	LDD_R[5]	RIN5

T-CON → LVDS connection

T-CON output terminal name	Signal name	LVDS terminal name
CPH	CPH	TCLK
STH	STH	Din(0)
STV1	STV1	Din(20)
Vcom1	VCOM1	Din(22)



output terminal name	Signal name	terminal name
CPH	CPH	TCLK
STH	STH	Din(0)
STV1	STV1	Din(20)
Vcom1	VCOM1	Din(22)
Vcom2	VCOM2	Din(21)
CPV	CPV	Din(19)
Load	LOAD	Din(17)
GOE	GOE	Din(18)
D-B3_Out	D-B0	Din(1)
D-B4_Out	D-B1	Din(2)
D-B5_Out	D-B2	Din(3)
D-B6_Out	D-B3	Din(4)
D-B7_Out	D-B4	Din(5)
D-G2_Out	D-G0	Din(6)
D-G3_Out	D-G1	Din(7)
D-G4_Out	D-G2	Din(8)
D-G5_Out	D-G3	Din(9)
D-G6_Out	D-G4	Din(10)
D-G7_Out	D-G5	Din(11)
D-R3_Out	D-R0	Din(12)
D-R4_Out	D-R1	Din(13)
D-R5_Out	D-R2	Din(14)
D-R6_Out	D-R3	Din(15)
D-R7_Out	D-R4	Din(16)



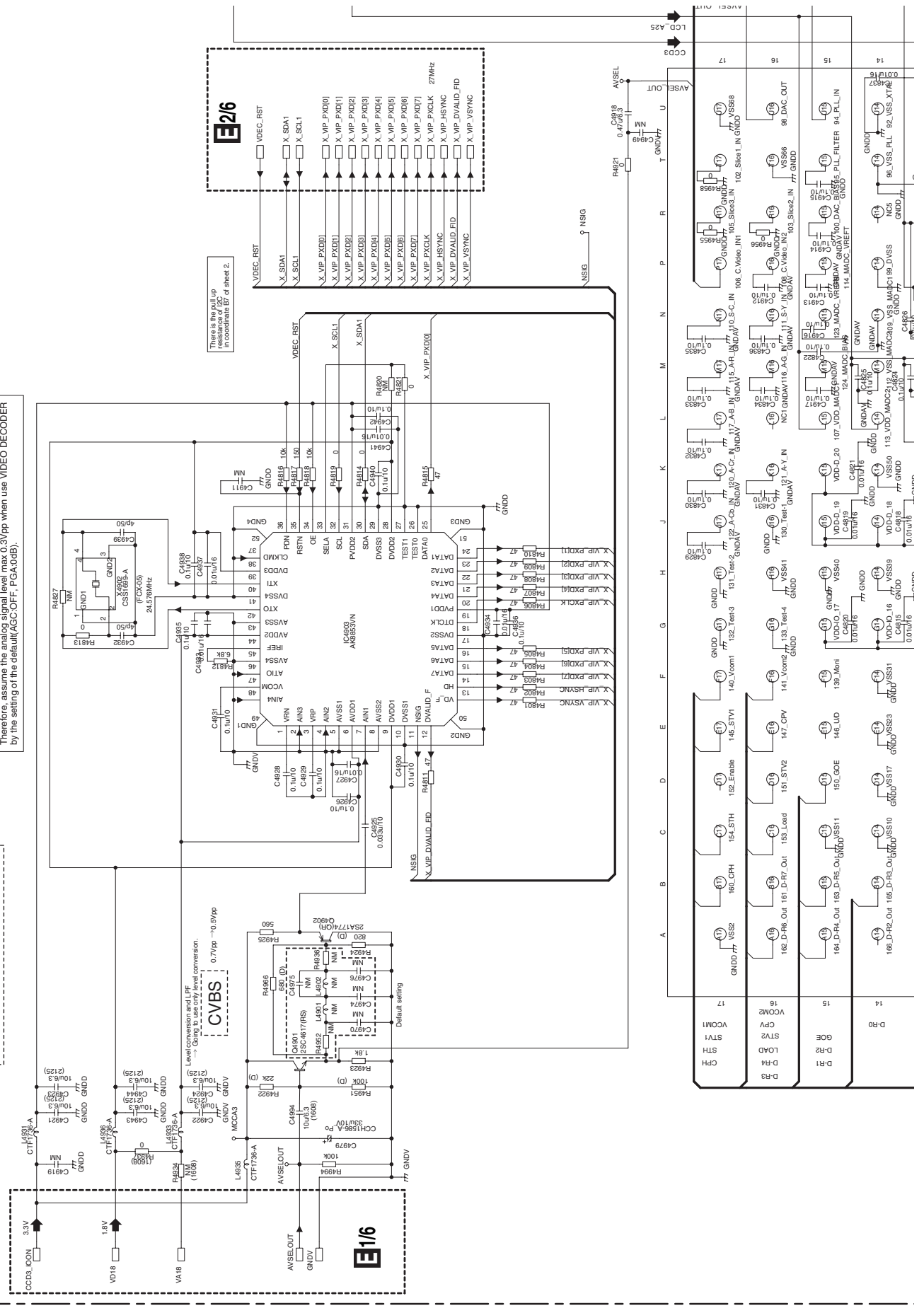
LVDS BLOCK

Optimize the VDSSEL & PRE terminal with the measurement result of the EYE-PATTERN.

PRE Open : Pre-Emphasis Off
 P.D. : Pre-Emphasis On
 ※ Recommendation Here than 0x13

The input level that DAC of the VIDEO DECODER inside permits is max 0.3Vpp. Therefore, assume the analog signal per max 0.3Vpp when use VIDEO DECODER by the setting of the default(AGC-OFF; PGA30dB).

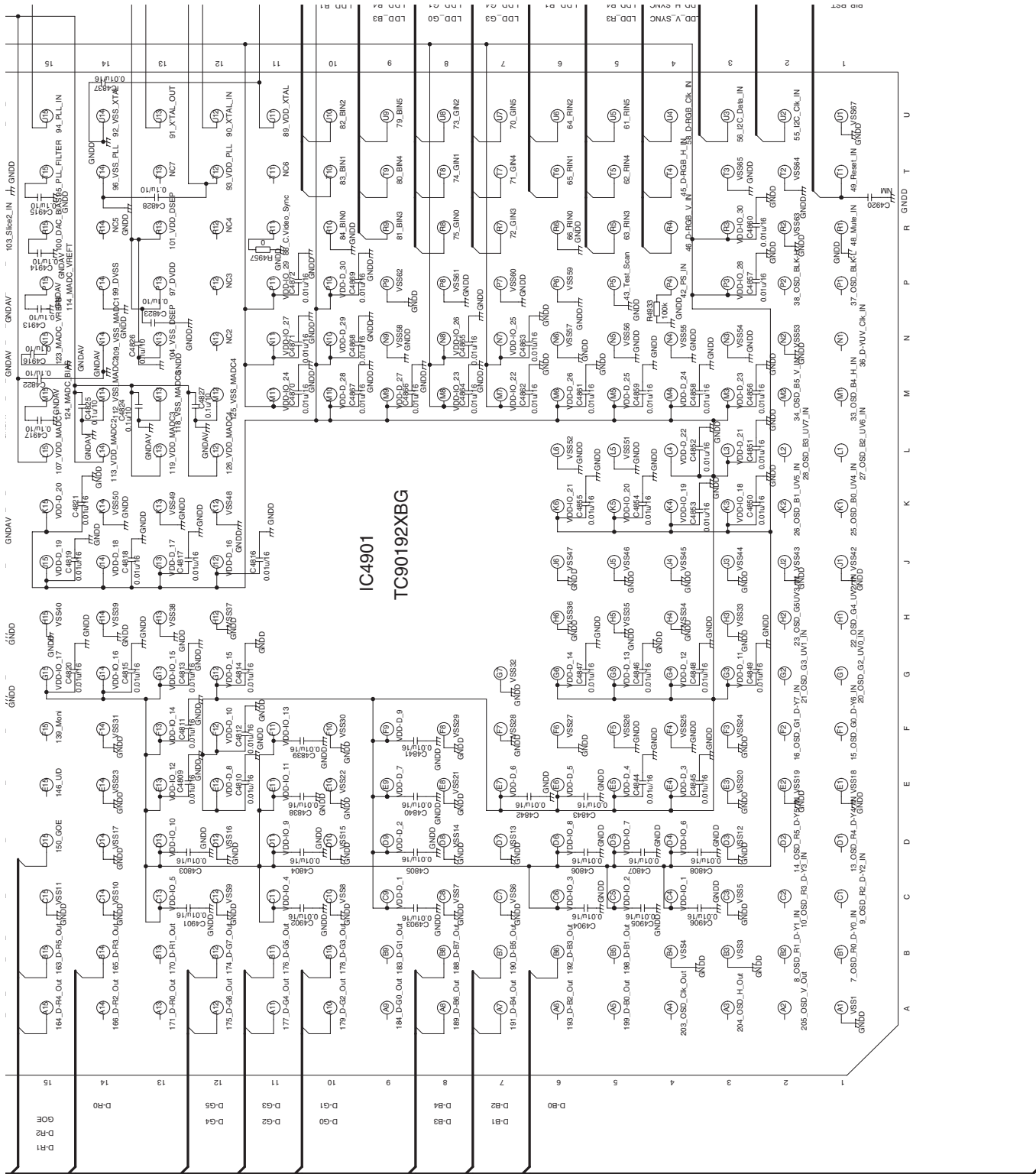
VIDEO DECODER BLOCK



There is the pull-up in coordination 67 of signal 2.

F E D C B A

1 2 3 4



E-b 6/6

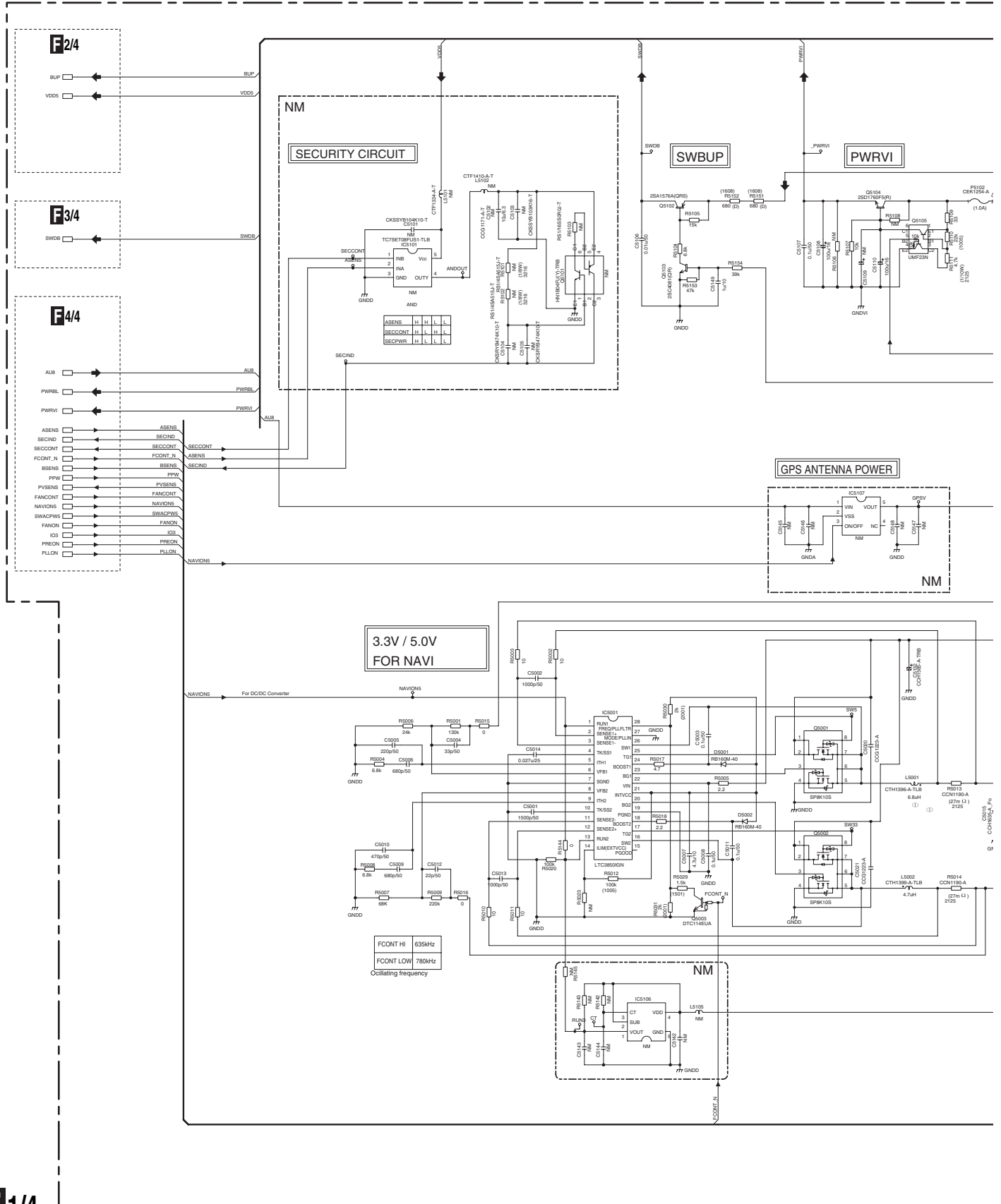
E-a E-b

E-a 6/6

10.13 NAVI UNIT(PS PART)(GUIDE PAGE)

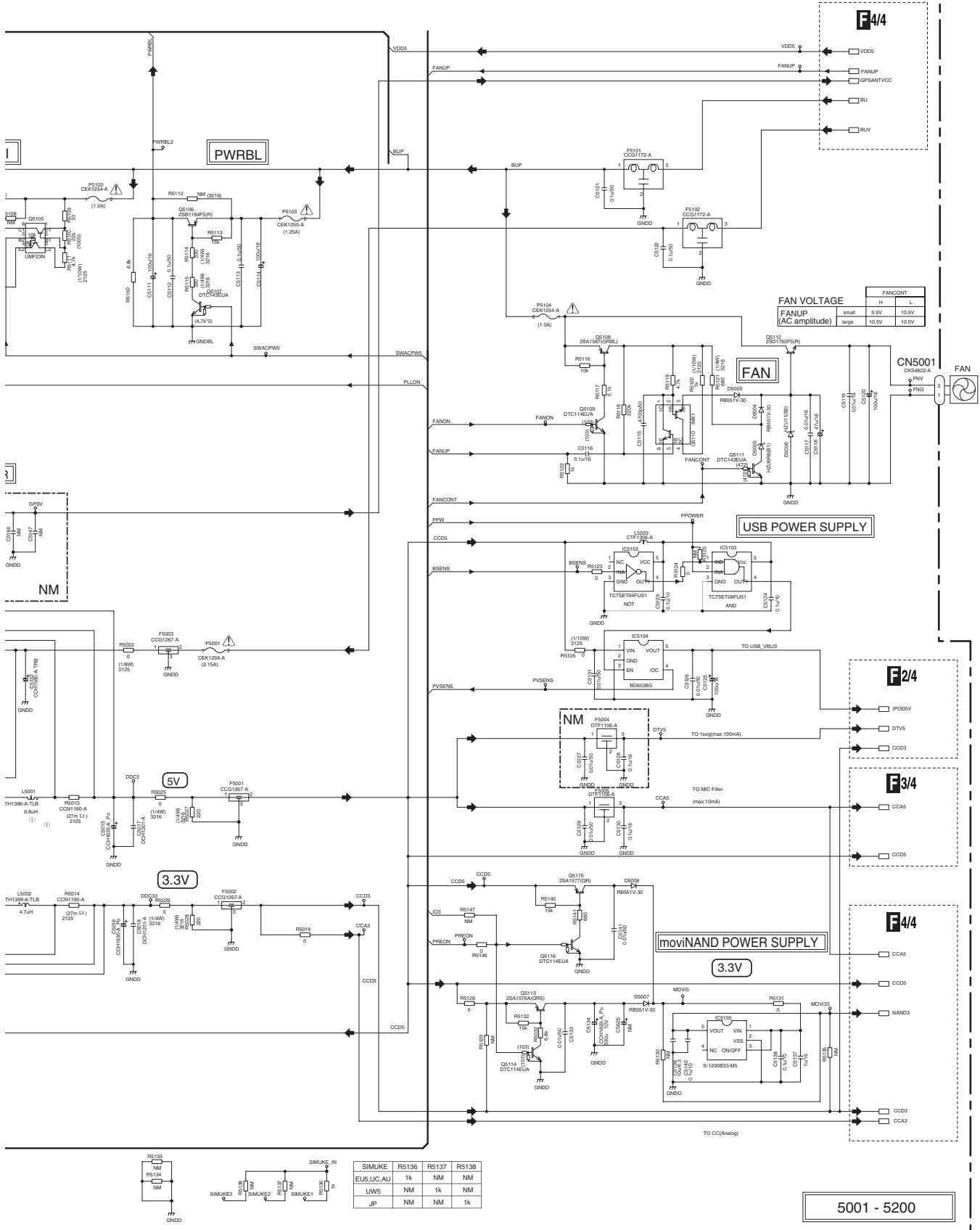
F-a 1/4

A
B
C
D
E
F



F-b 1/4

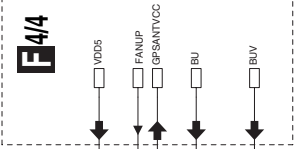
F1/4 NAVI UNIT (PS PART)



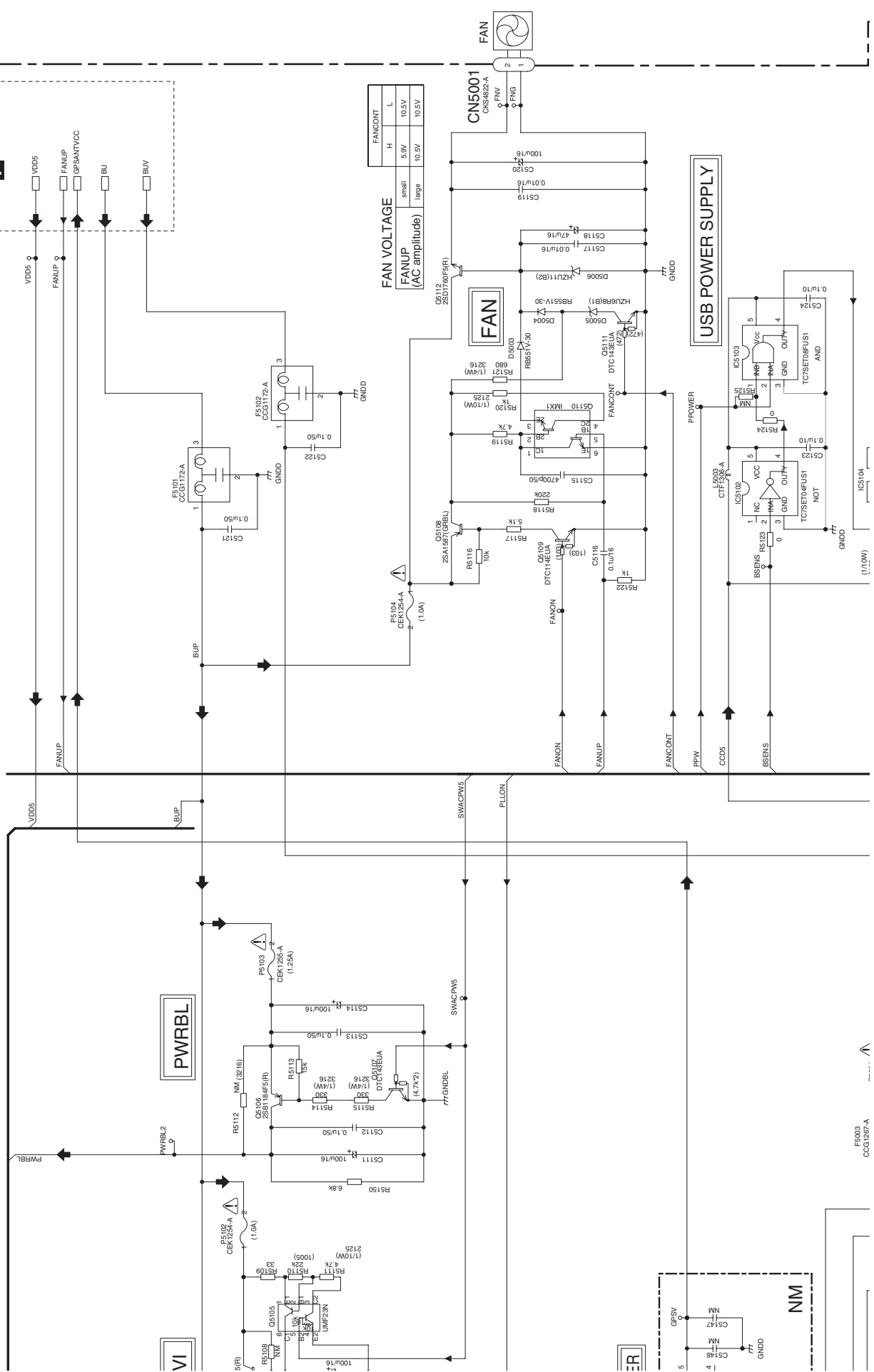
SIMUKE	R5136	R5137	R5138
EUS_UC_AU	1k	NM	NM
UWS	NM	1k	NM
JP	NM	NM	1k

5001 - 5200

F1/4 NAVI UNIT (PS PART)



FAN VOLTAGE	
FANUP	FANCONT
small	H
large	L
5.9V	10.5V
10.5V	10.5V



F-a F-b

F-b 1/4

PWRBL

USB POWER SUPPLY

VI

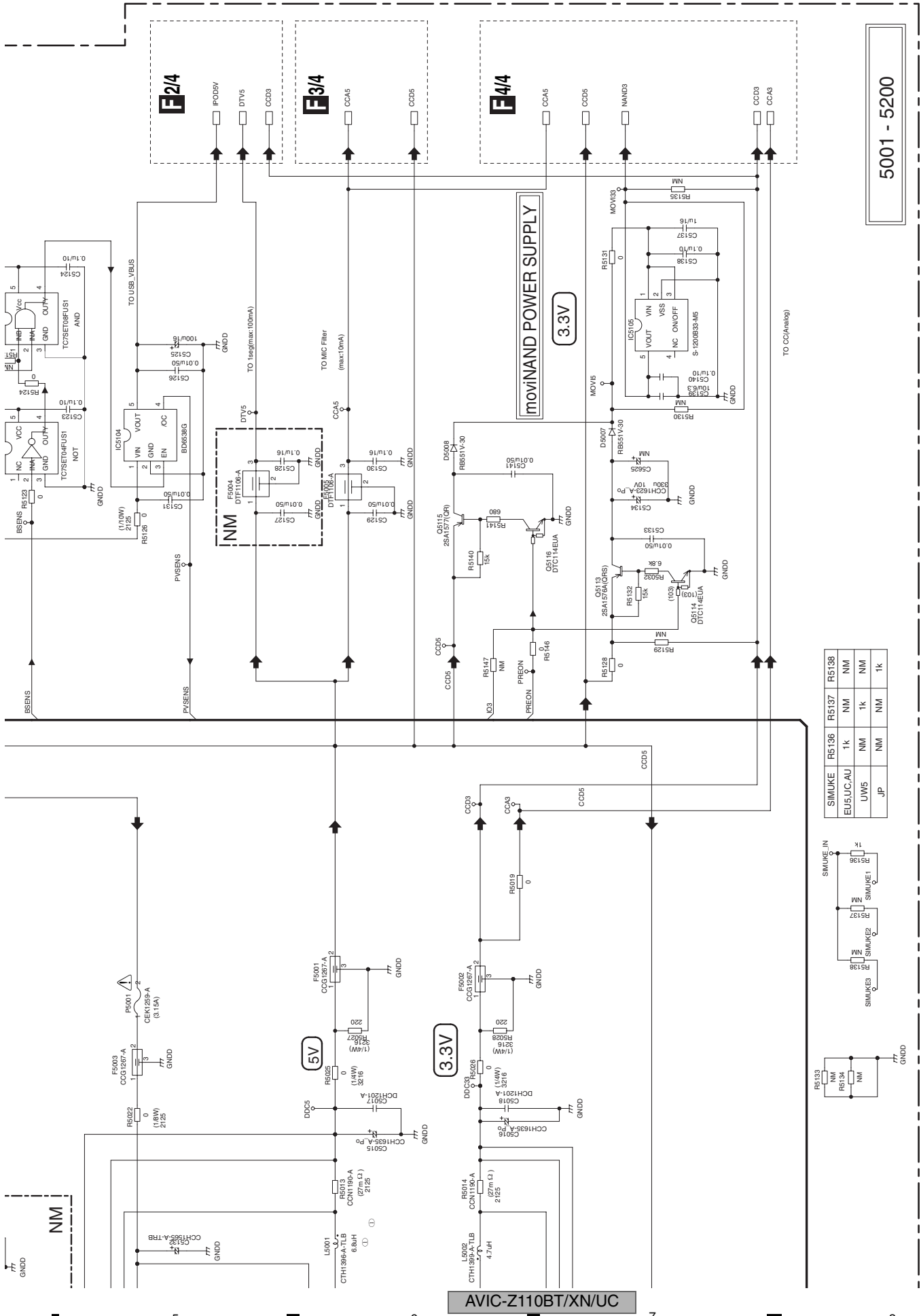
AVIC-Z110BT/XN/UC

IR

NIM

F5003 CG1506-A

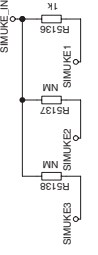
A B C D E F



5001 - 5200

AVIC-Z110BT/XN/UC

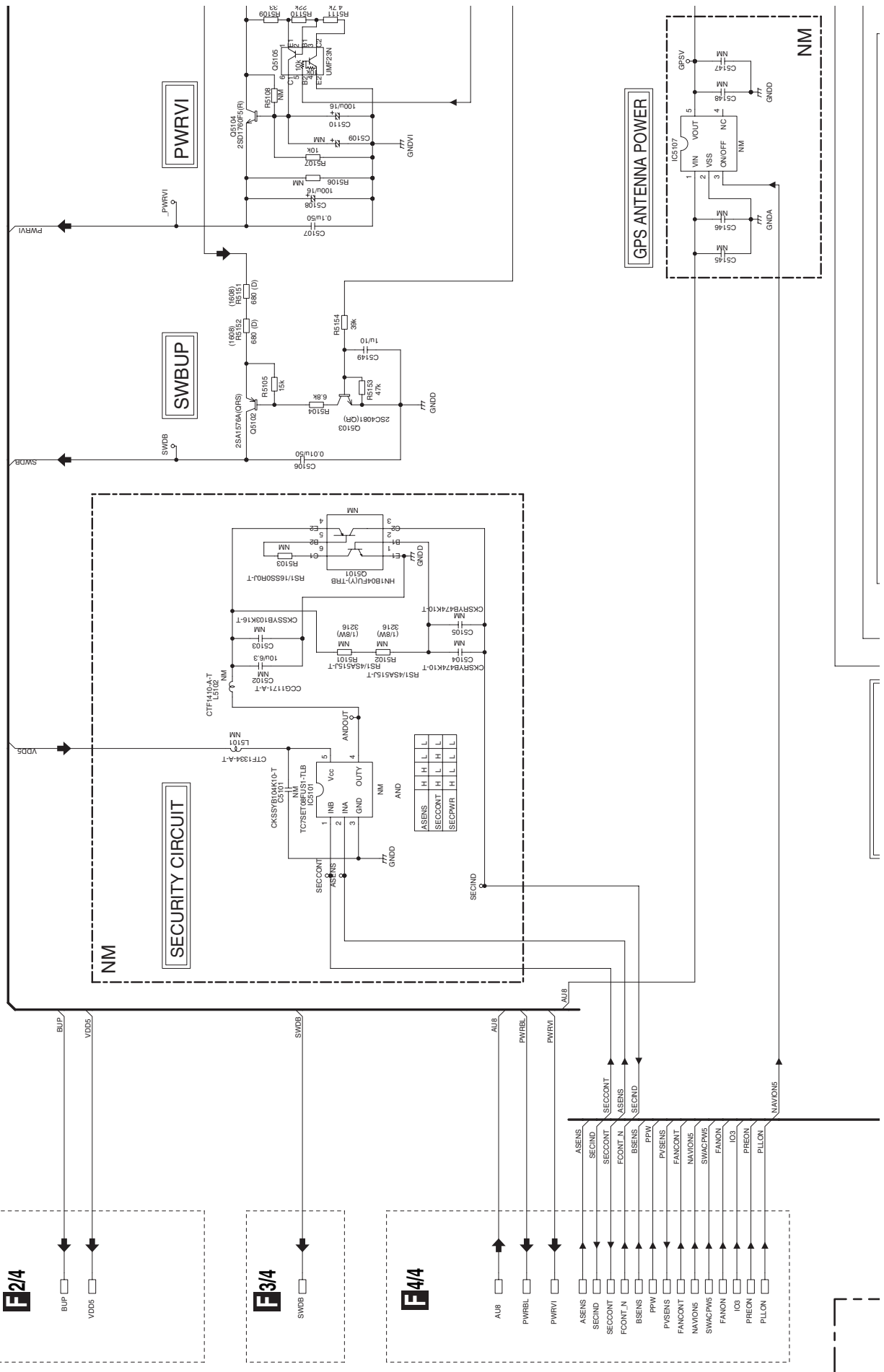
SIMUKE	R5136	R5137	R5138
EUS,UC,AU	1k	NM	NM
UWS	NM	1k	NM
JP	NM	NM	1k

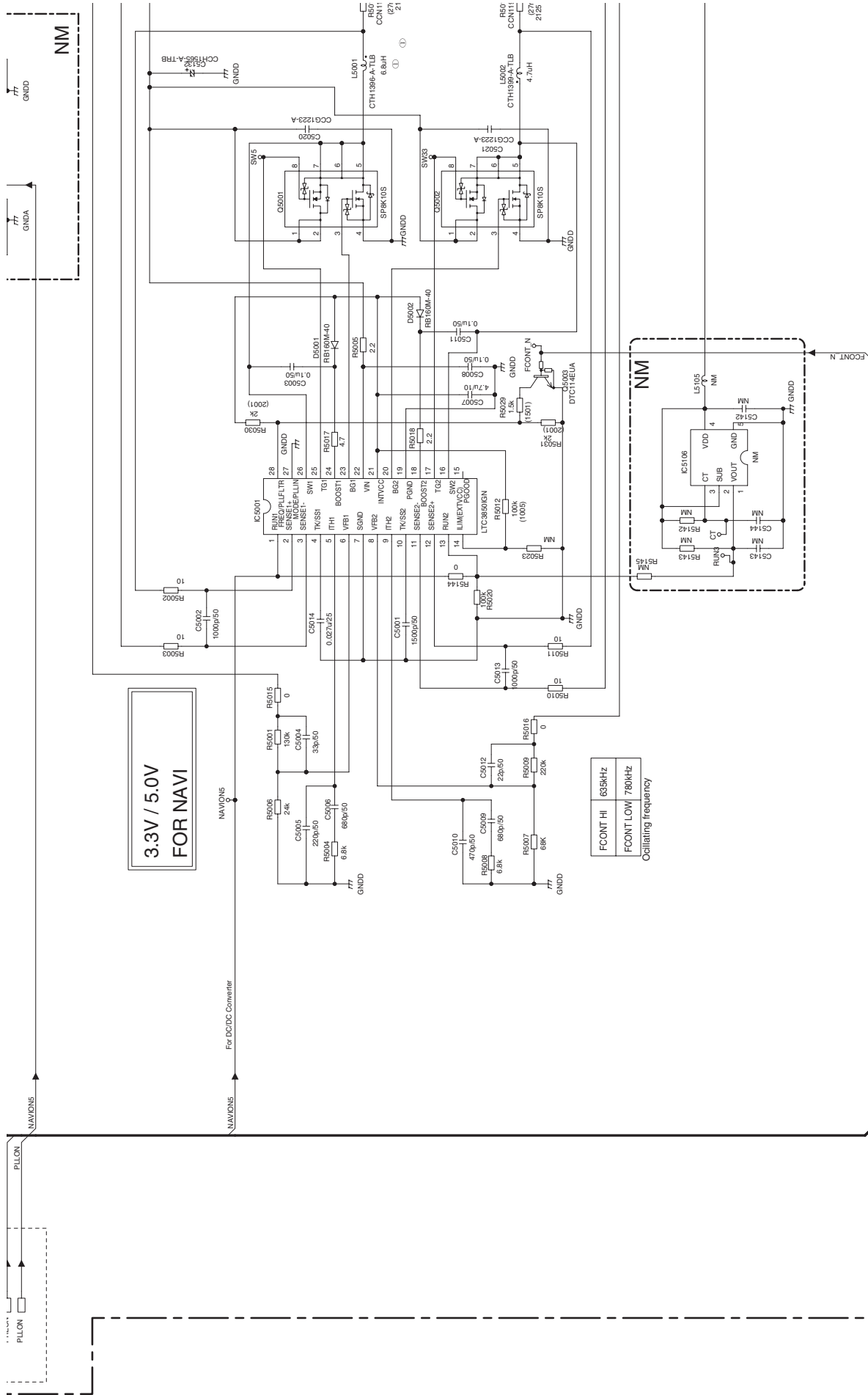


F-a F-b

F-b 1/4

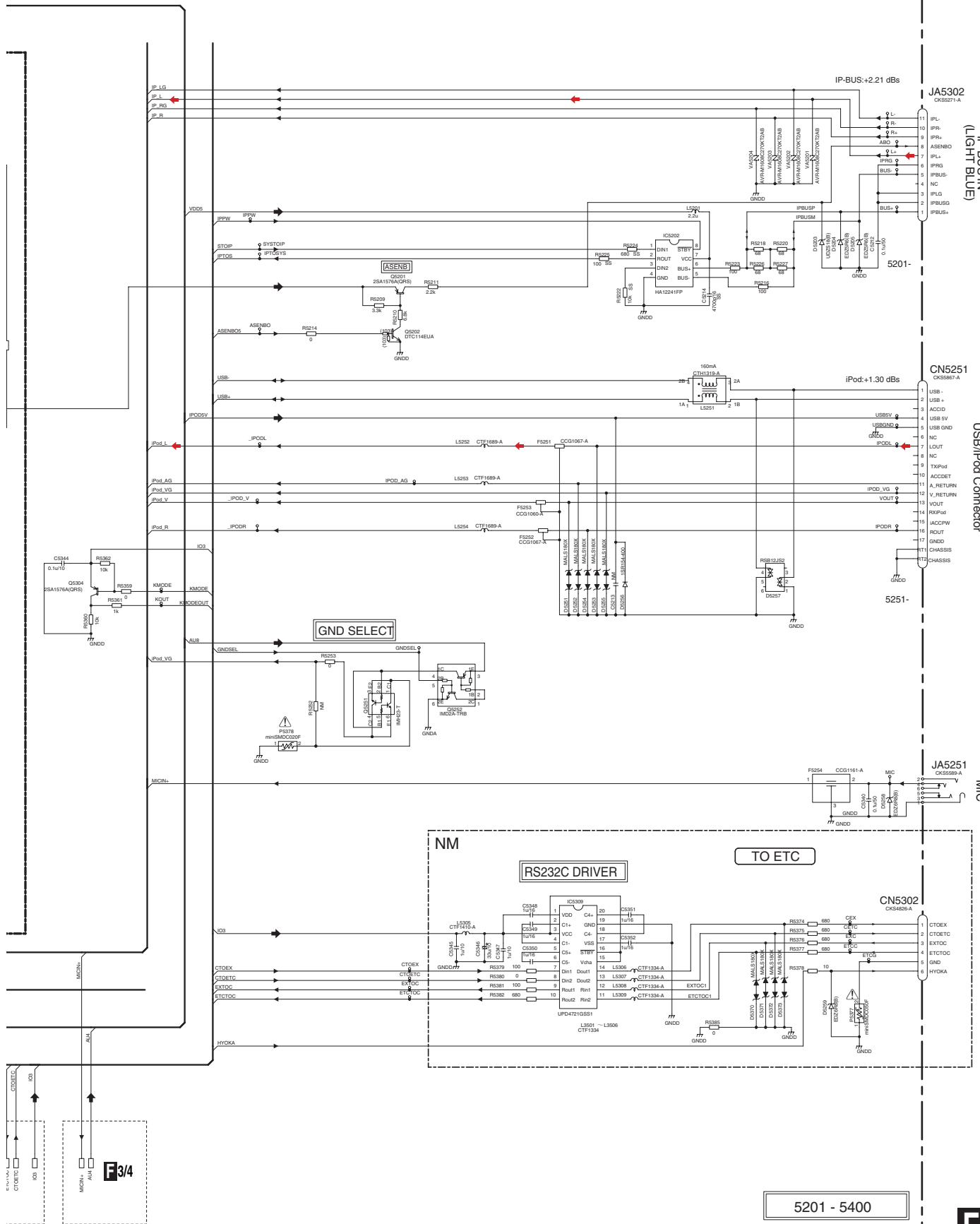
1 2 3 4





F-b 2/4

F2/4 NAVI UNIT (IF 1SEG PART)



5201 - 5400

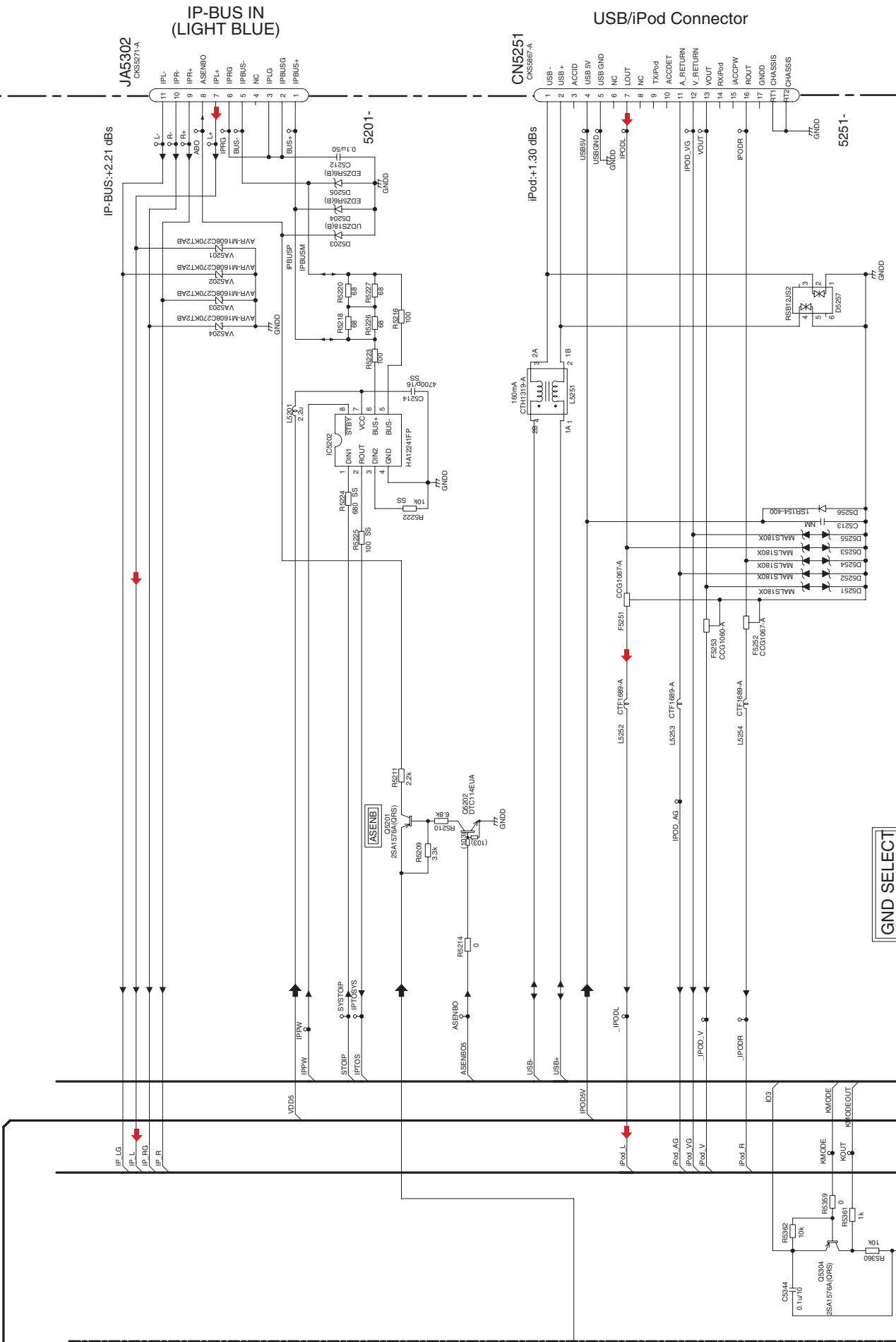
F2/4 NAVI UNIT (IF 1SEG PART)

F-a F-b

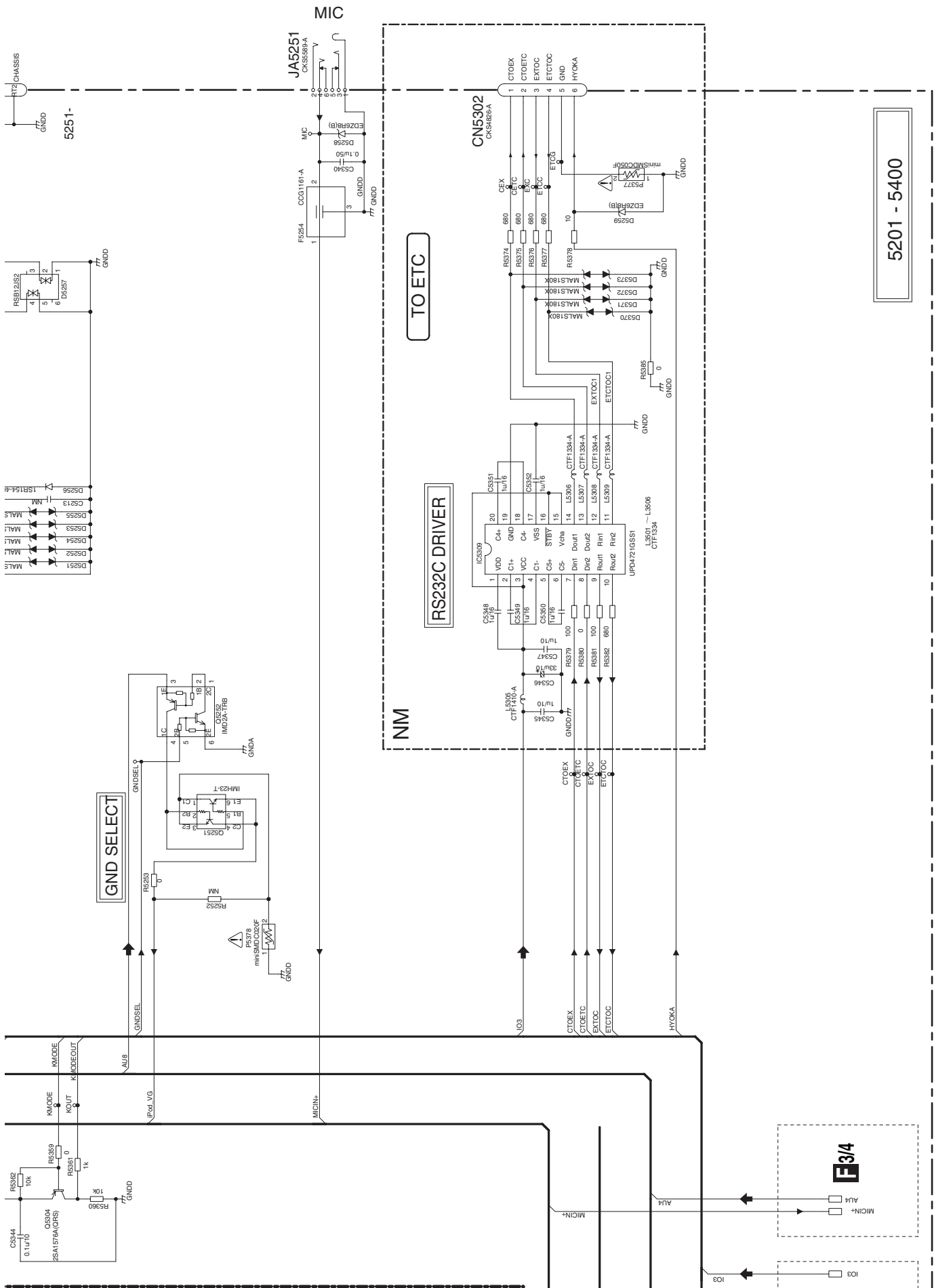
F-b 2/4

IP-BUS IN (LIGHT BLUE)

USB/iPod Connector



AVIC-Z110BT/XN/UC



AVIC-Z110BT/XN/UC

F-b 2/4

F-a F-b

5201 - 5400

A
B
C
D
E
F

5 6 7 8

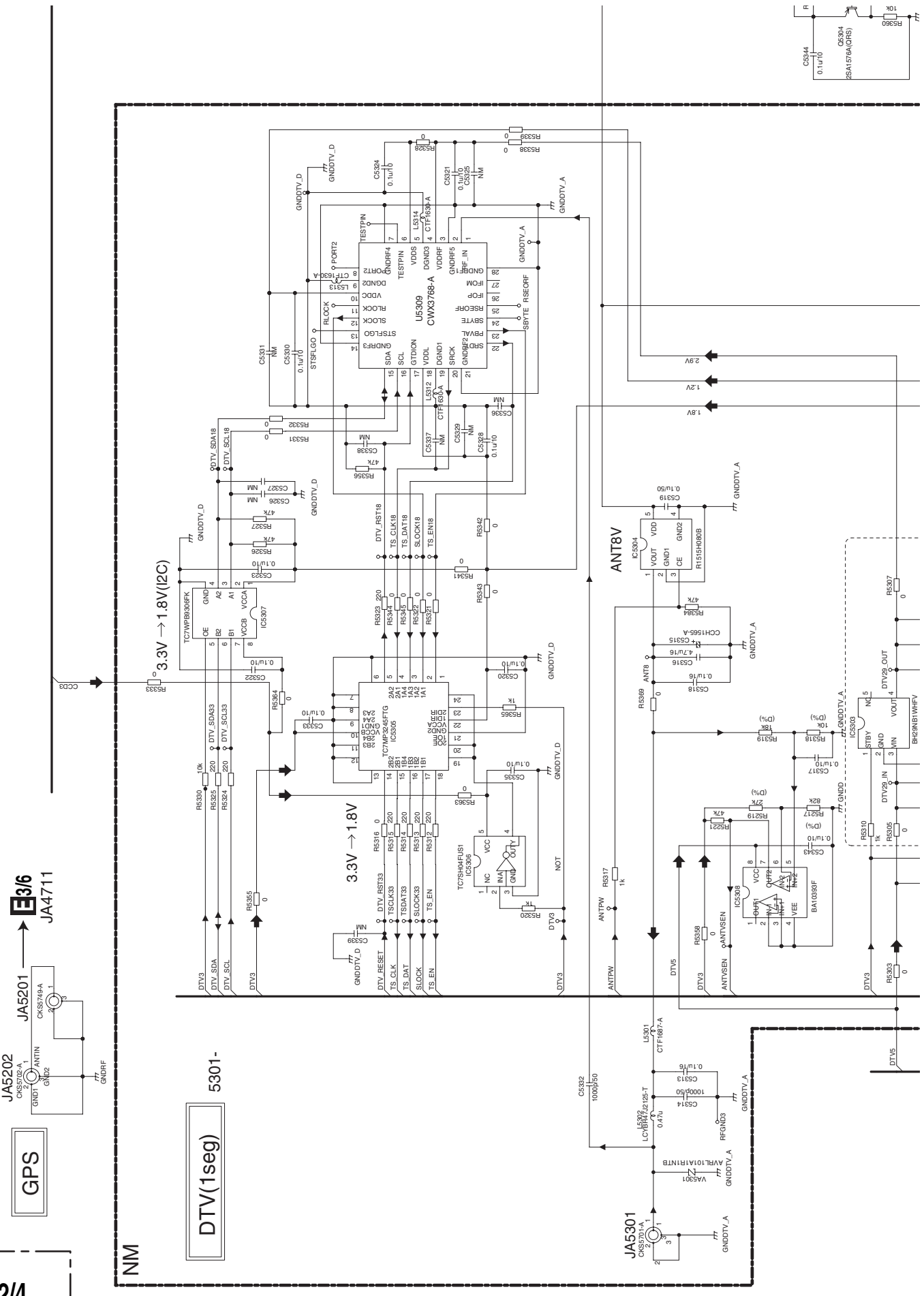
5 6 7 8

1

2

3

4

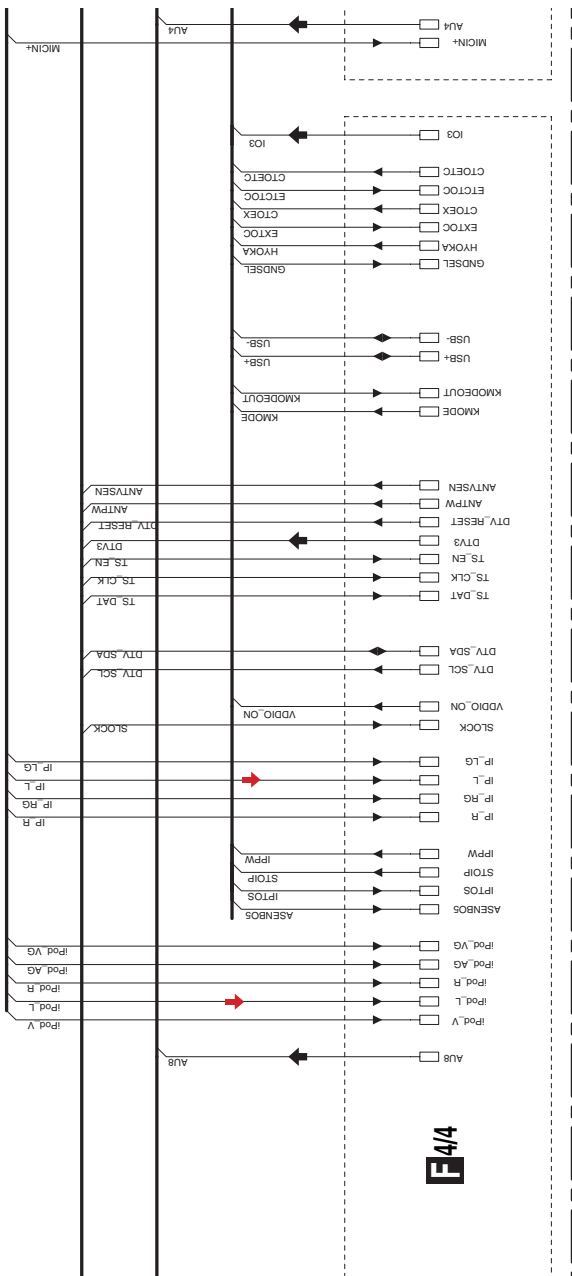
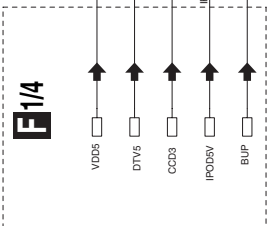
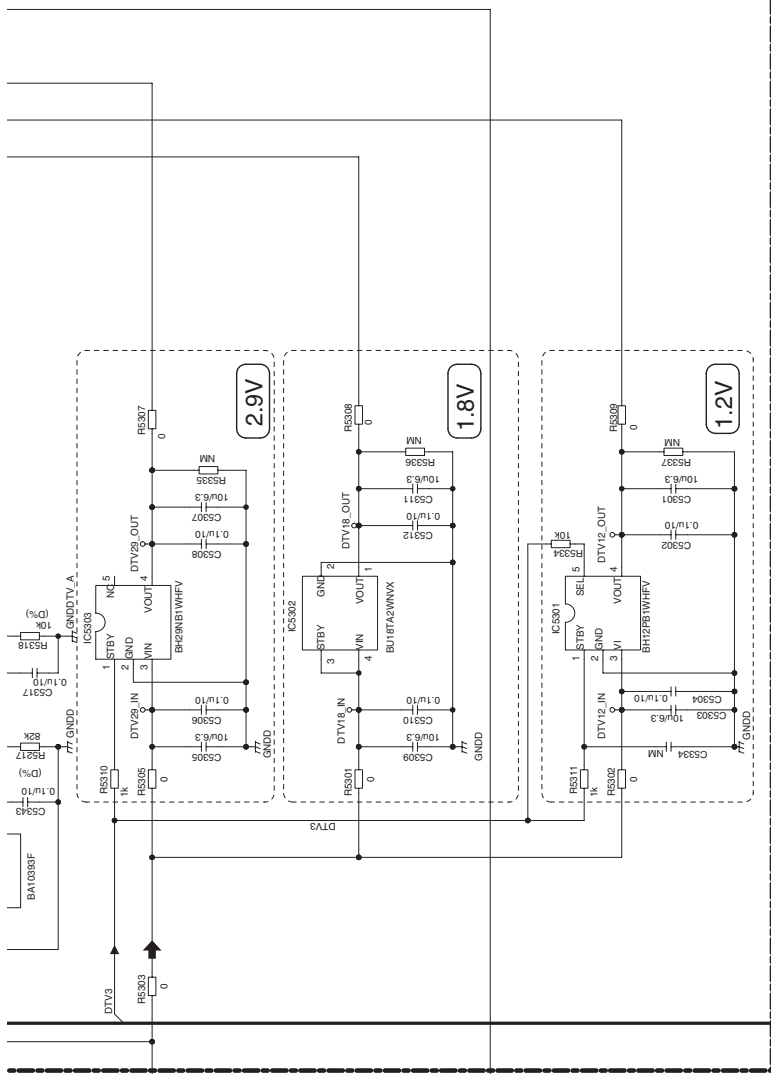
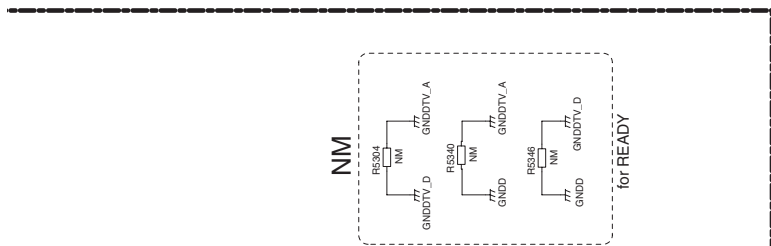
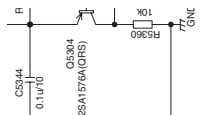


1

2

3

4



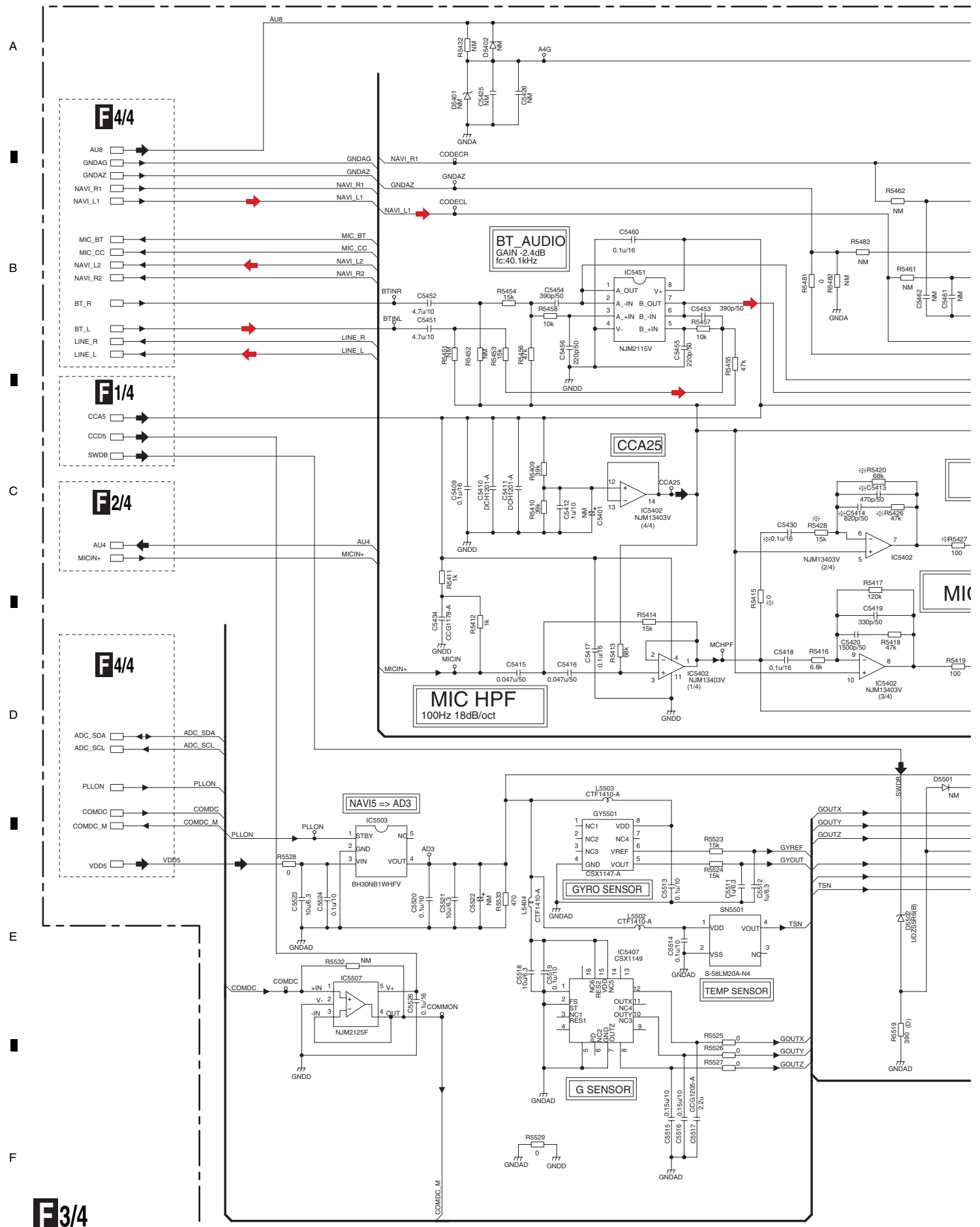
F4/4

F-a F-b

F-b 2/4

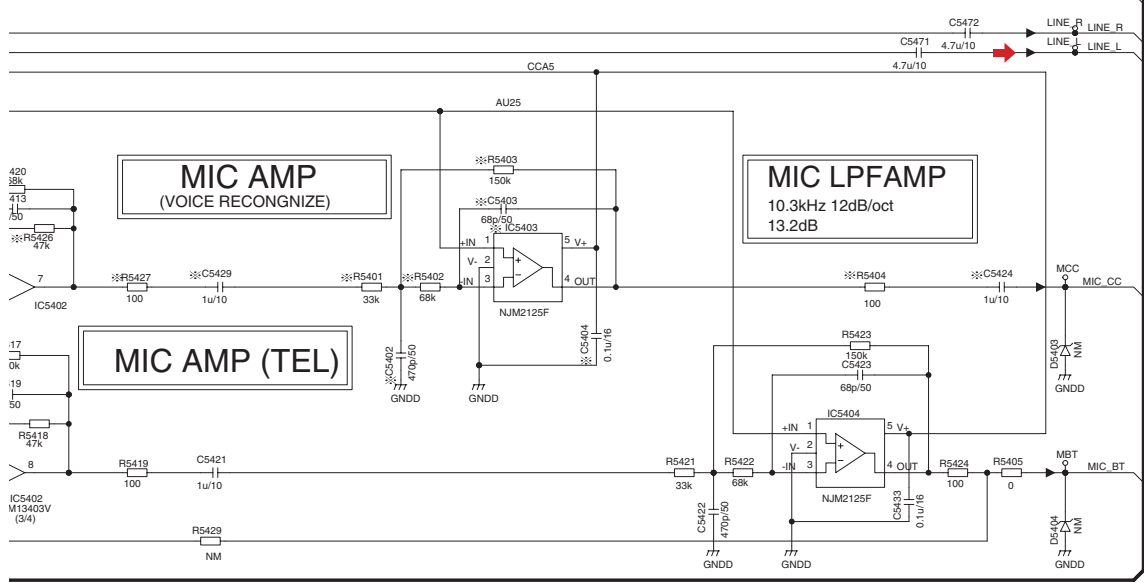
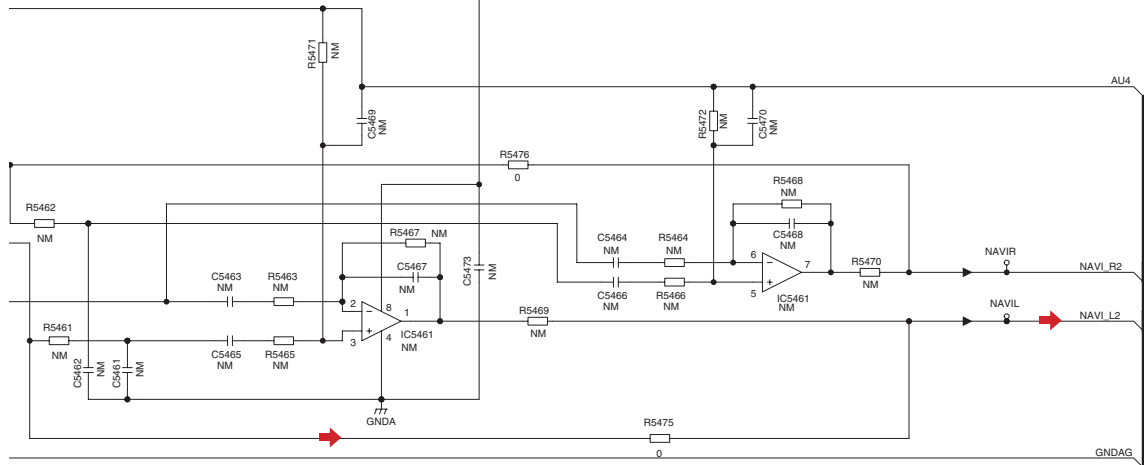
A B C D E F

10.15 NAVI UNIT(AUDIO,SENSOR PART)



F3/4

F3/4 NAVI UNIT (AUDIO, SENSOR PART)

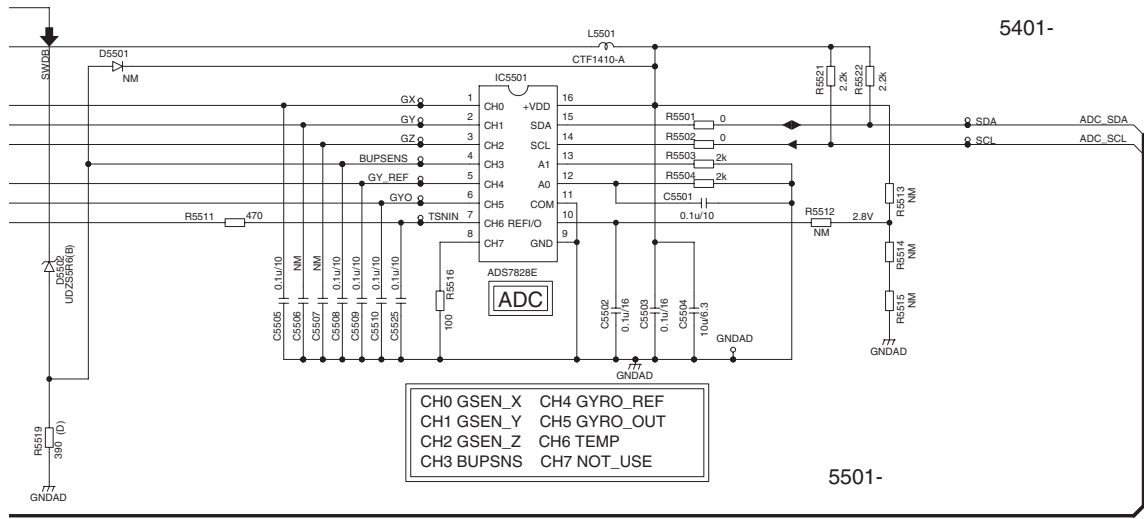


※ APPLICATION TABLE
(for VOICE RECONGNIZE)

	UWS	UC, AU, EU5
IC5403	NM	NJM2125F-TLB
R5401	NM	RS1710SR333J-T
R5402	NM	RS1710SR683J-T
R5403	NM	RS1710SR154J-T
R5404	NM	RS1710SR101J-T
R5405	NM	RS1710SR090J-T
R5420	RS1710SR090J-T	RS1710SR683J-T
R5426	NM	RS1710SR473J-T
R5427	NM	RS1710SR101J-T
R5428	NM	RS1710SR153J-T
C5402	NM	CCSRCH471J50-T
C5403	NM	CCSRCH680J50-T
C5404	NM	CXSRBY104K16-T
C5413	NM	CCSRCH471J50-T
C5414	NM	CCSRCH821J50-T
C5424	NM	CXSRBY105K10-T
C5429	NM	CXSRBY105K10-T
C5430	NM	CXSRBY104K16-T

sheet4

R5645	NM	RS1710SR090J-T
-------	----	----------------



- CH0 GSEN_X
- CH1 GSEN_Y
- CH2 GSEN_Z
- CH3 BUPSNS
- CH4 GYRO_REF
- CH5 GYRO_OUT
- CH6 TEMP
- CH7 NOT_USE

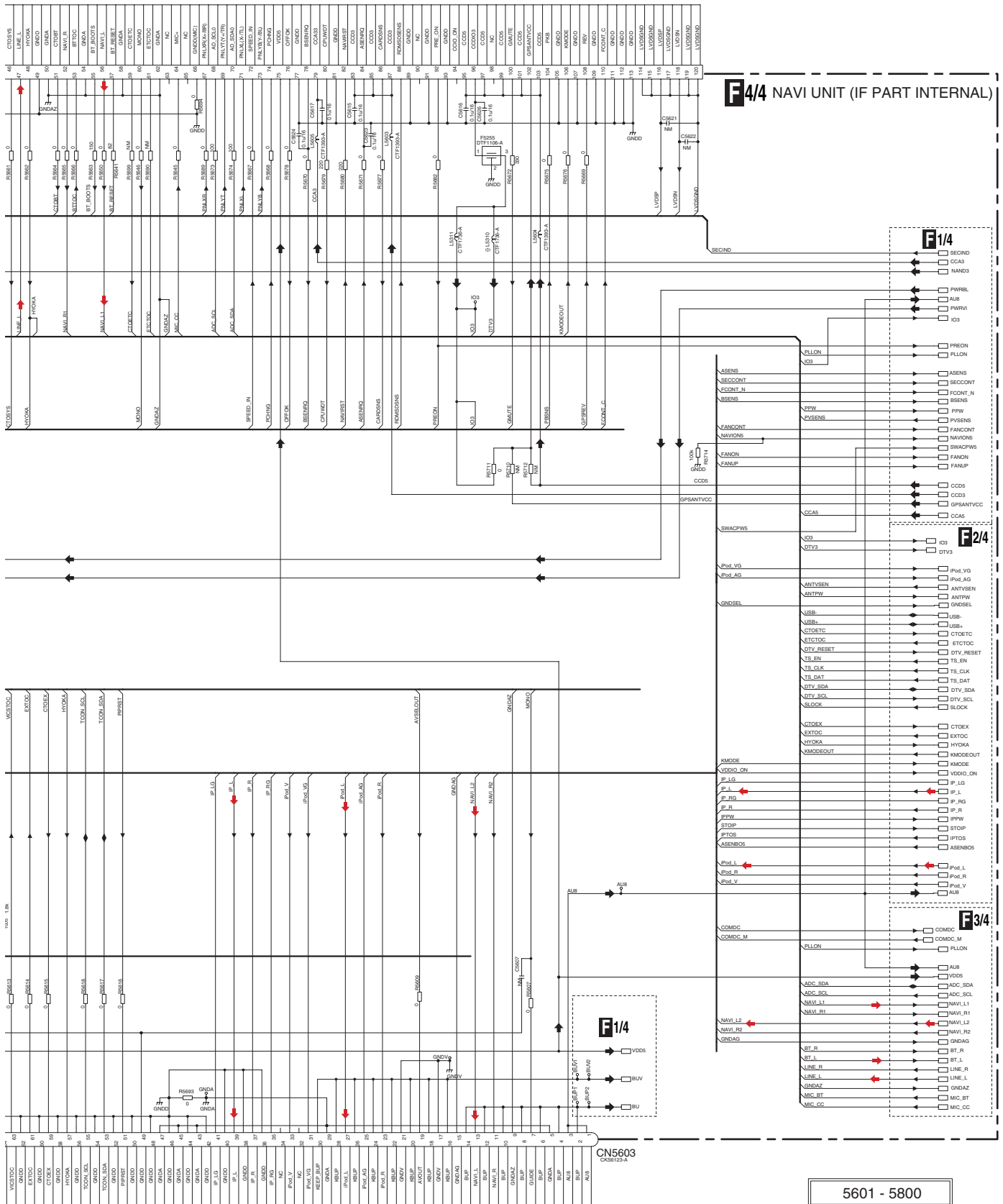
5401 - 5600



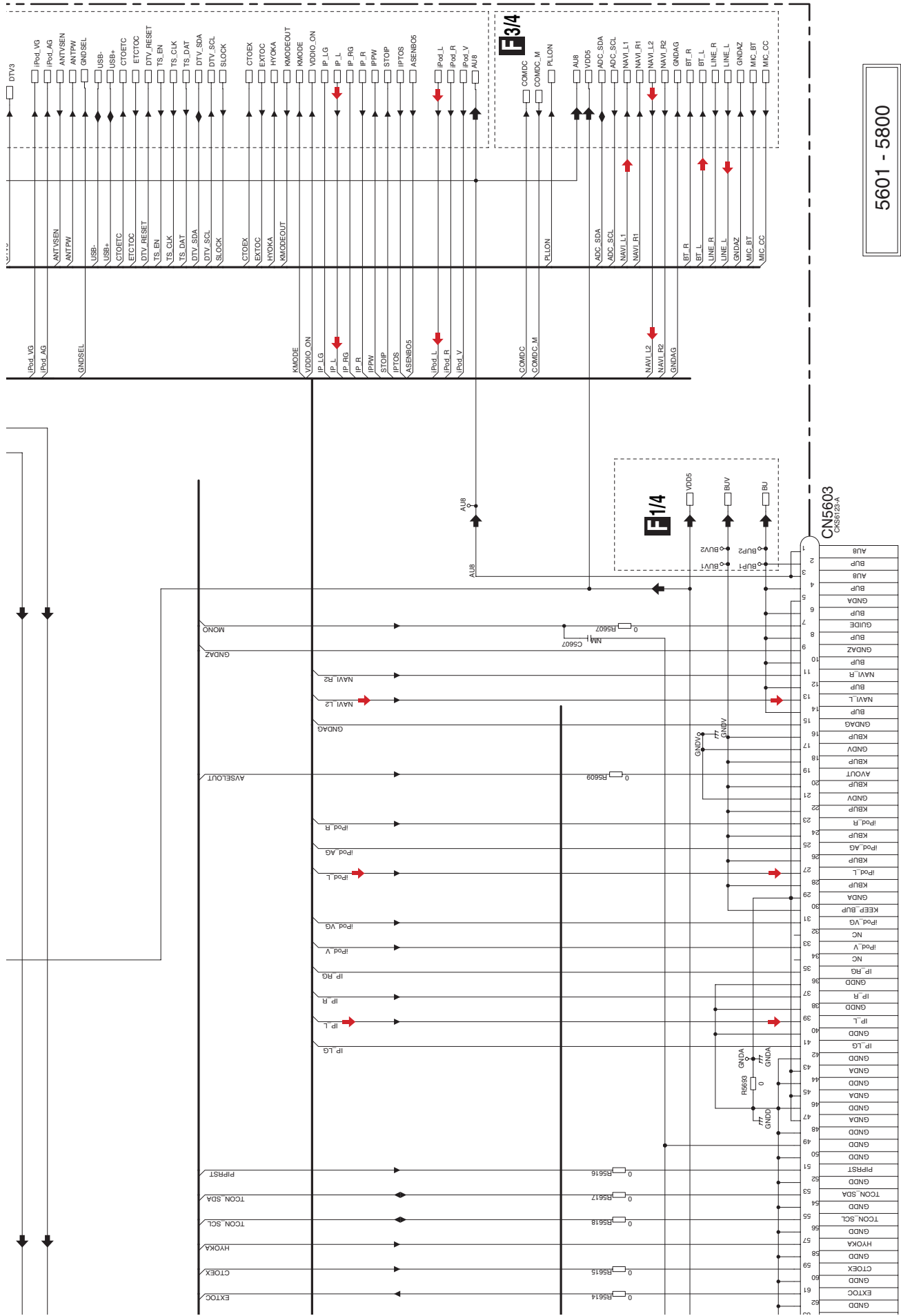
F-b 4/4

E1/6 CN4201

F4/4 NAVI UNIT (IF PART INTERNAL)



5601 - 5800

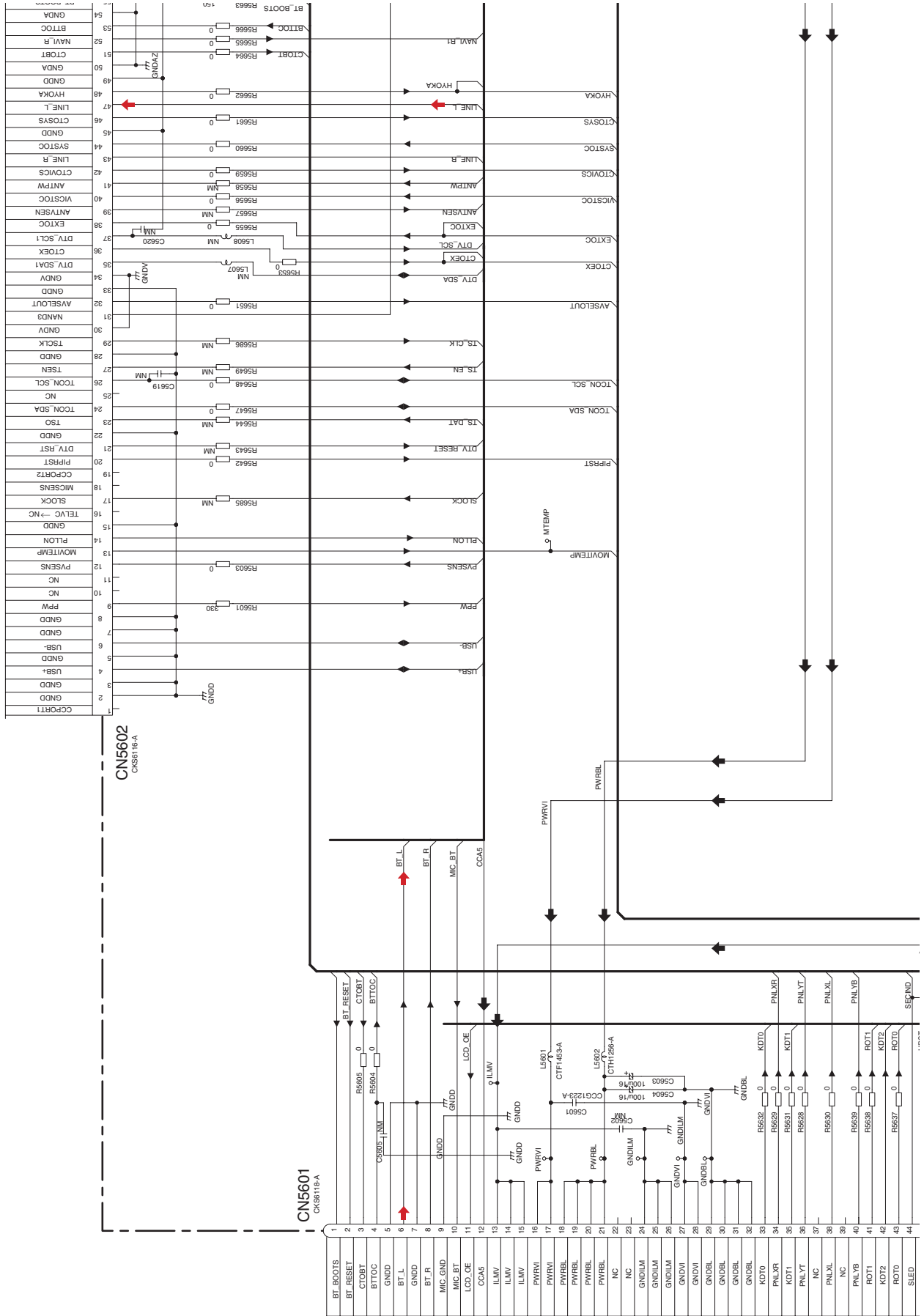


5601 - 5800

F-a F-b

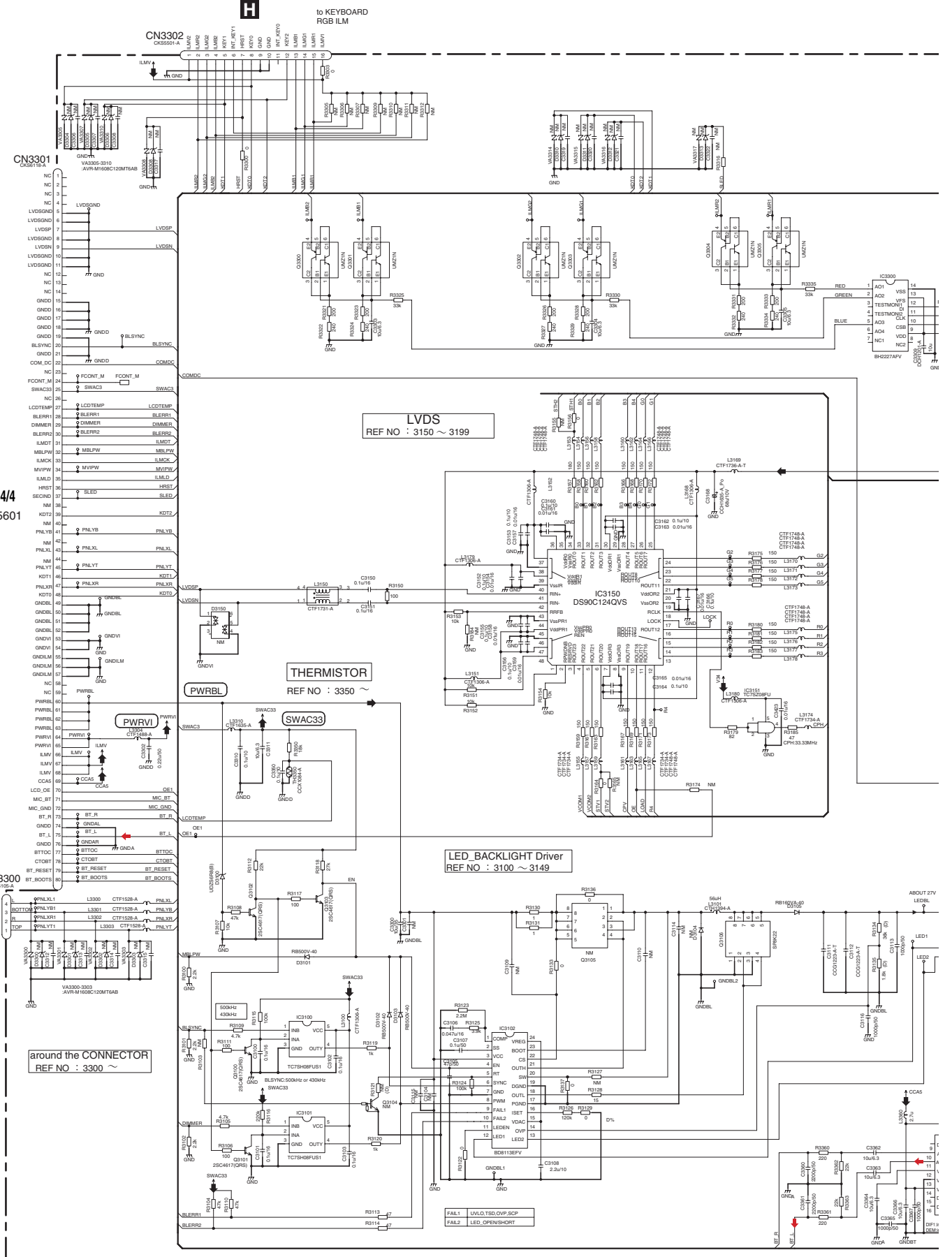
F-b 4/4

AVIC-Z110BT/XN/UC



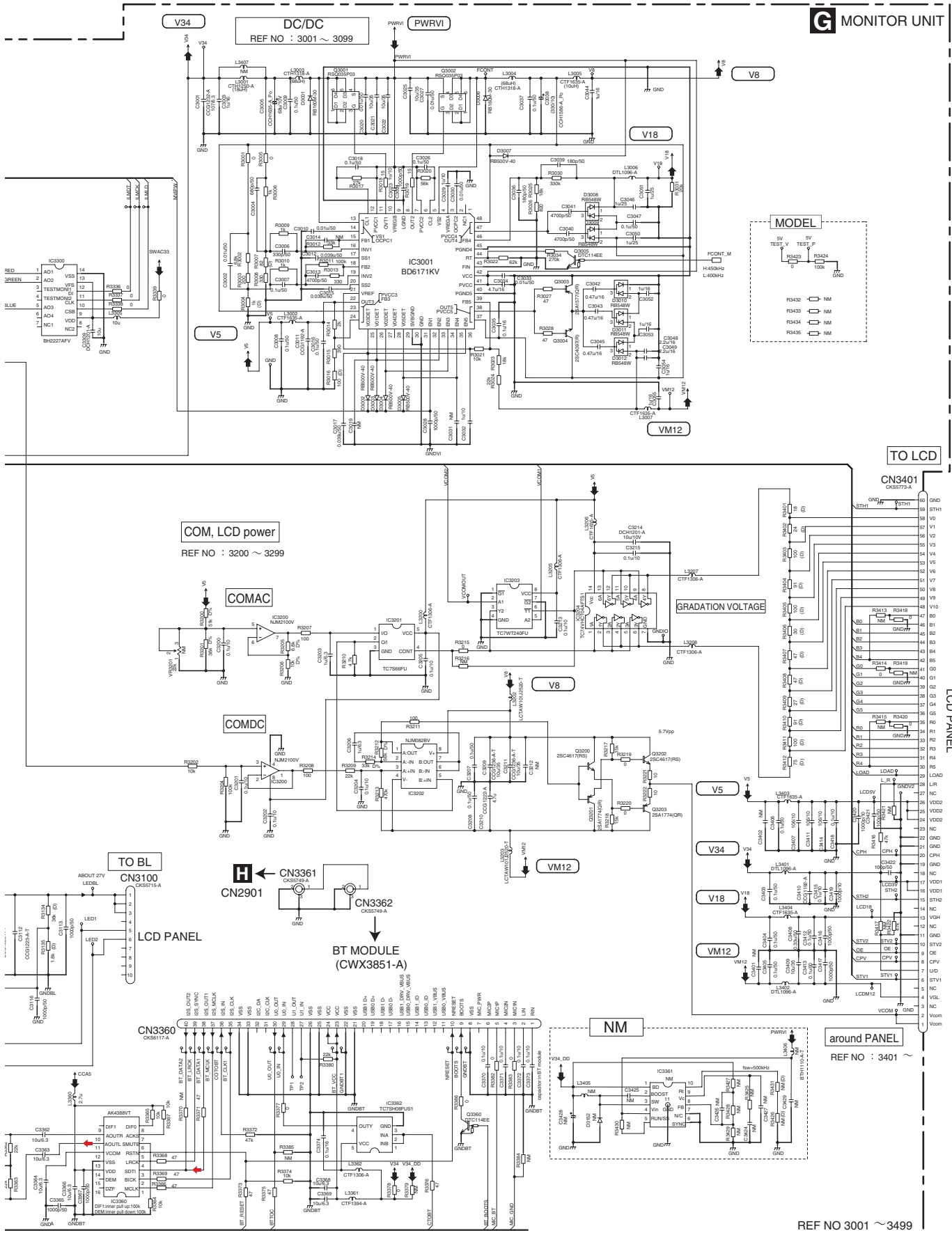
10.17 MONITOR UNIT(GUIDE PAGE)

G-a



G-b

G MONITOR UNIT



MONITOR UNIT

G-a G-b

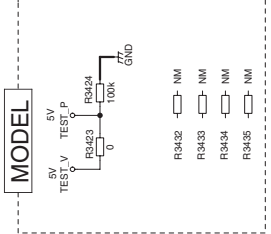
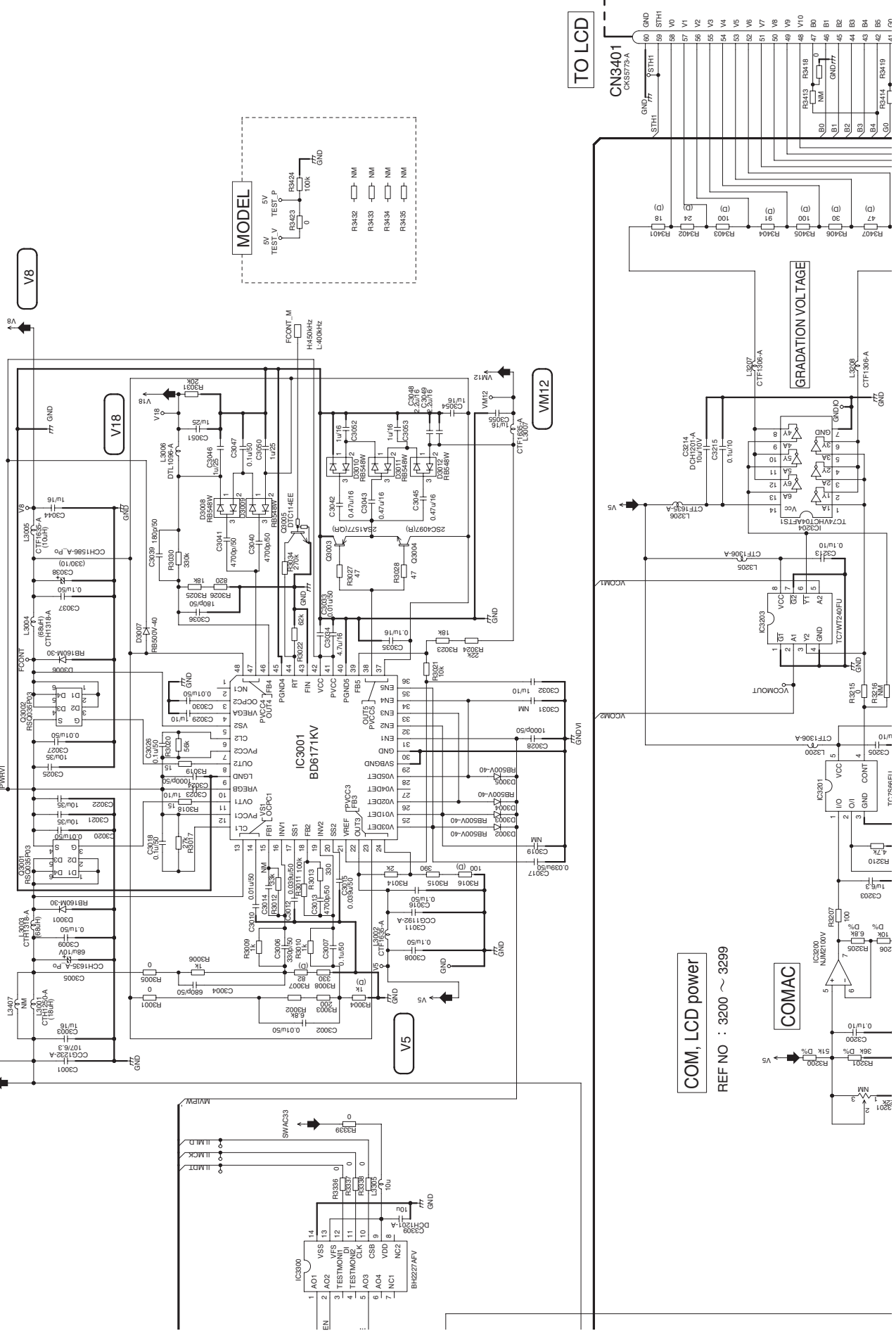
G-b

DC/DC
REF NO : 3001 ~ 3099

PWRV1
PWRV1

V8

V34

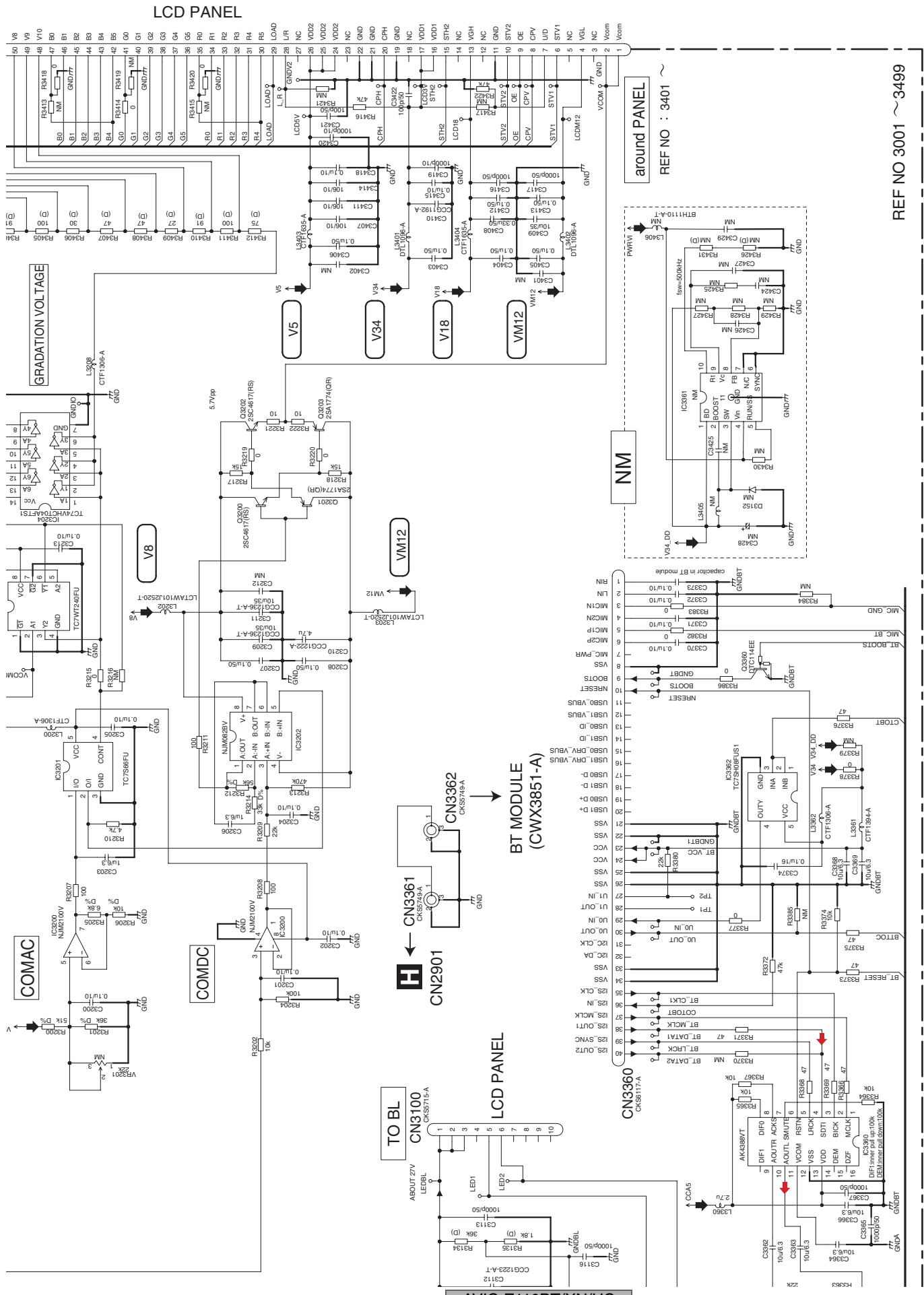


COM, LCD power
REF NO : 3200 ~ 3299

COMAC

GRADATION VOLTAGE

TO LCD
CN3401
GR3279A



LCD PANEL

GRADATION VOLTAGE

COMAC

COMDC

BT MODULE (CWX3851-A)

TO BL

AVIC-Z110BT/XN/UC

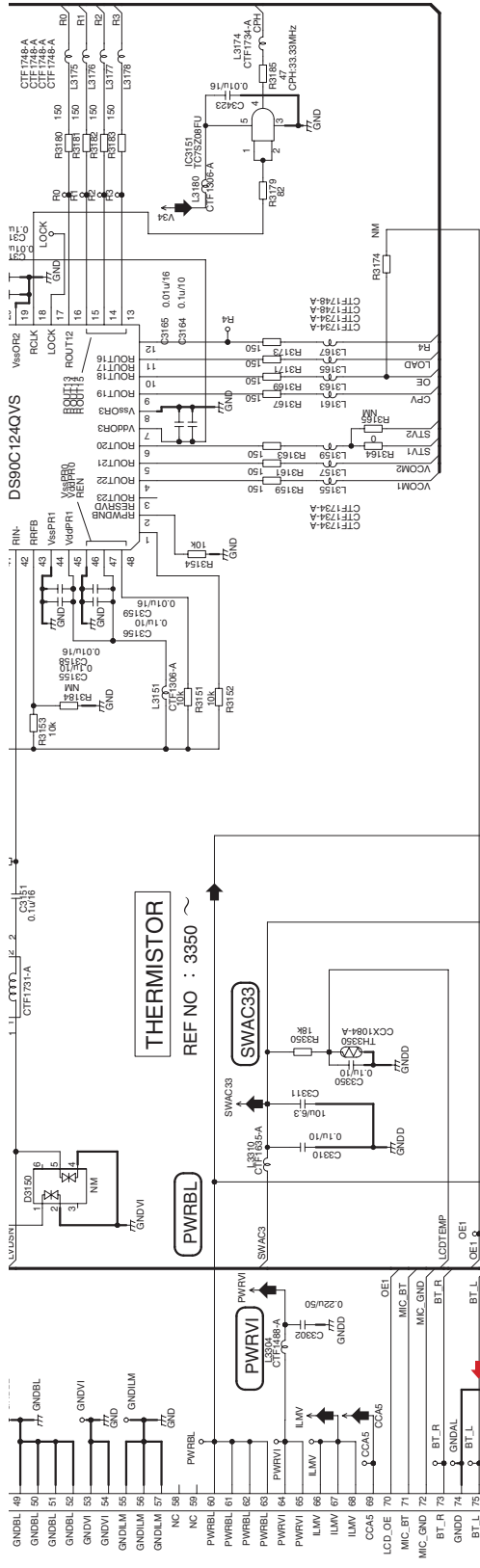
around PANEL

REF NO : 3401

REF NO 3001 ~ 3499

G-a G-b

G-b



LED_BACKLIGHT Driver
REF NO : 3100 ~ 3149

THERMISTOR
REF NO : 3350 ~

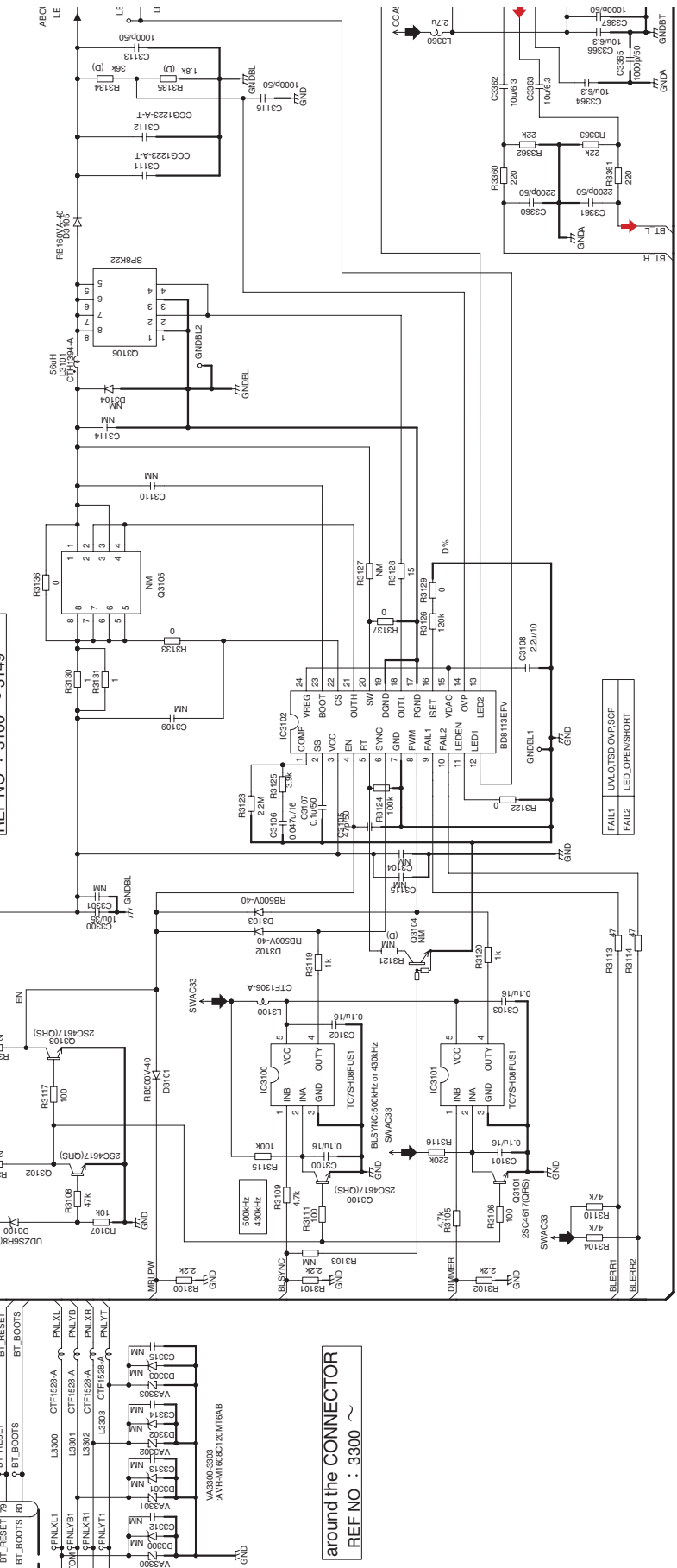
PWRBL

PWRV1
REF NO : 3300 ~

CN3300



around the CONNECTOR
REF NO : 3300 ~



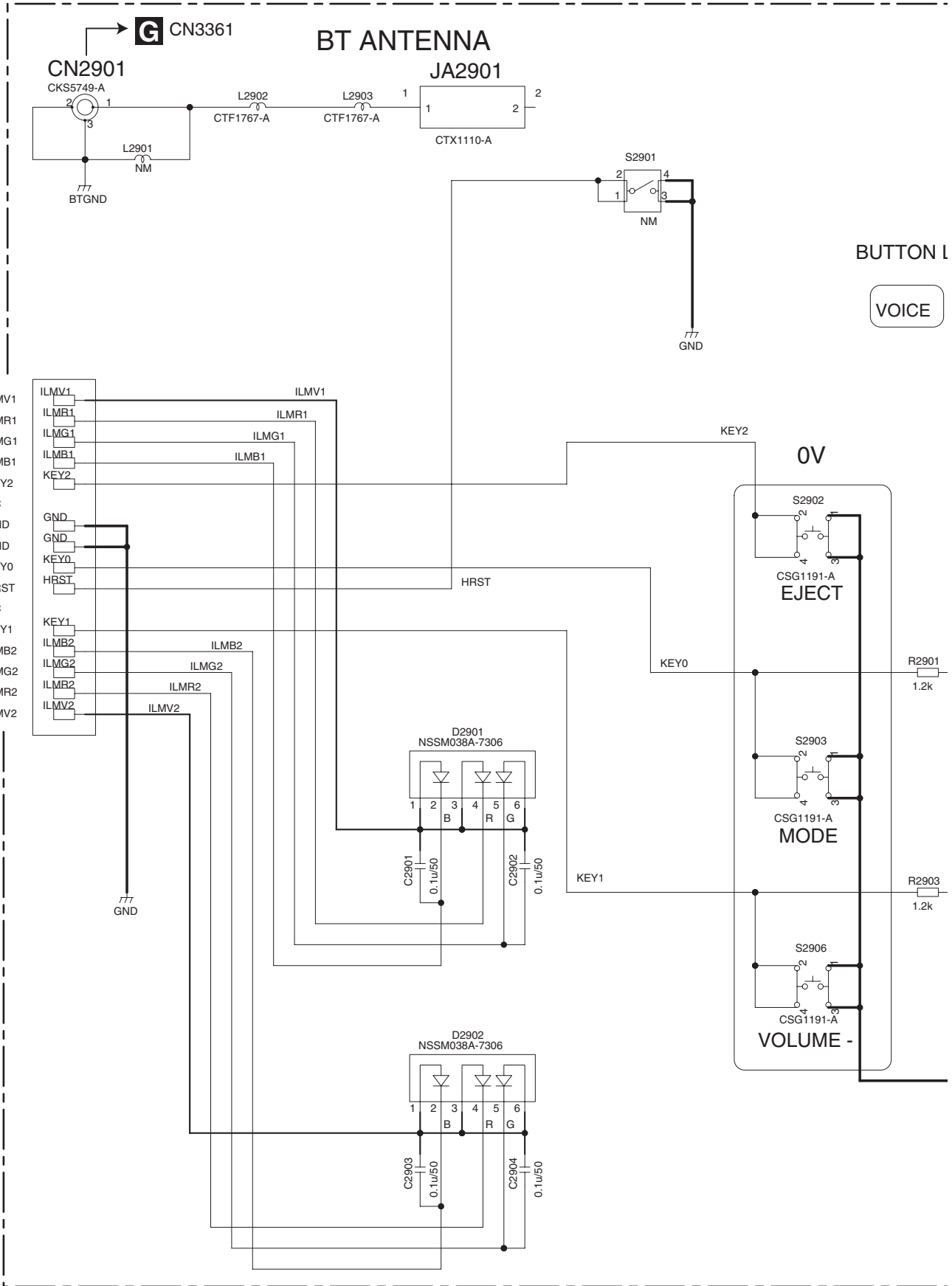
G-b

G-a G-b

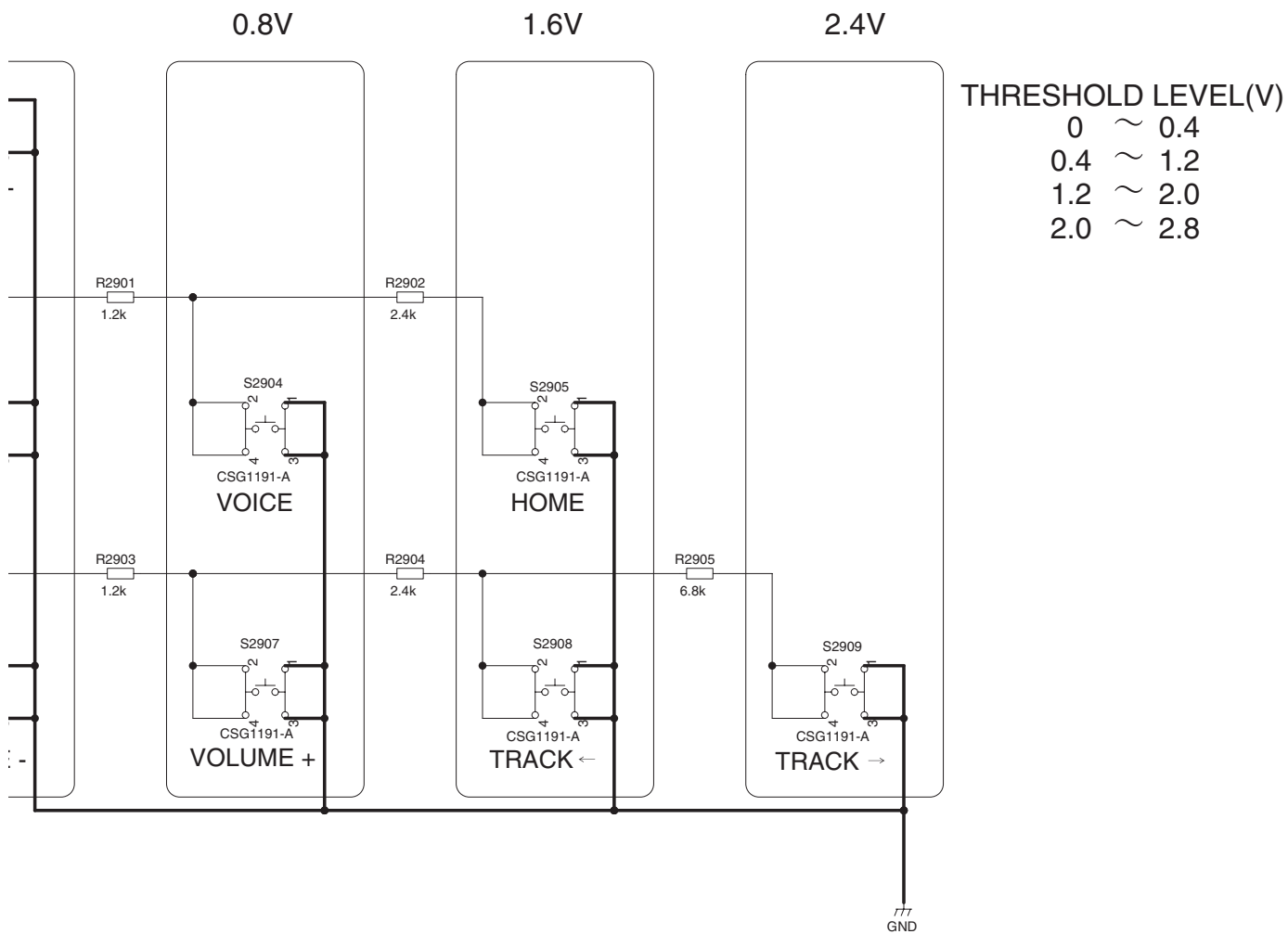
G-a

10.18 KEYBOARD UNIT

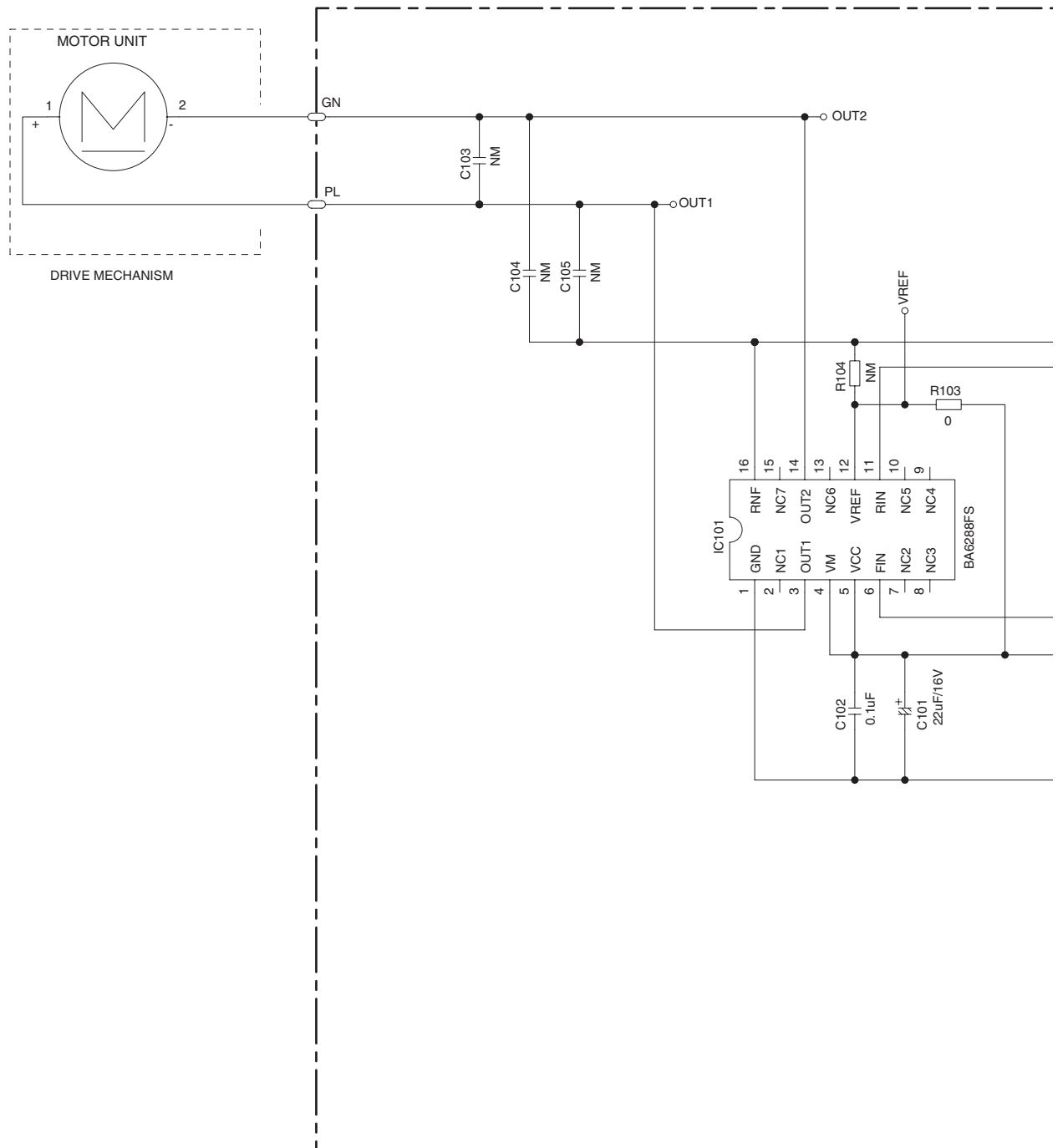
A
B
C
D
E
F



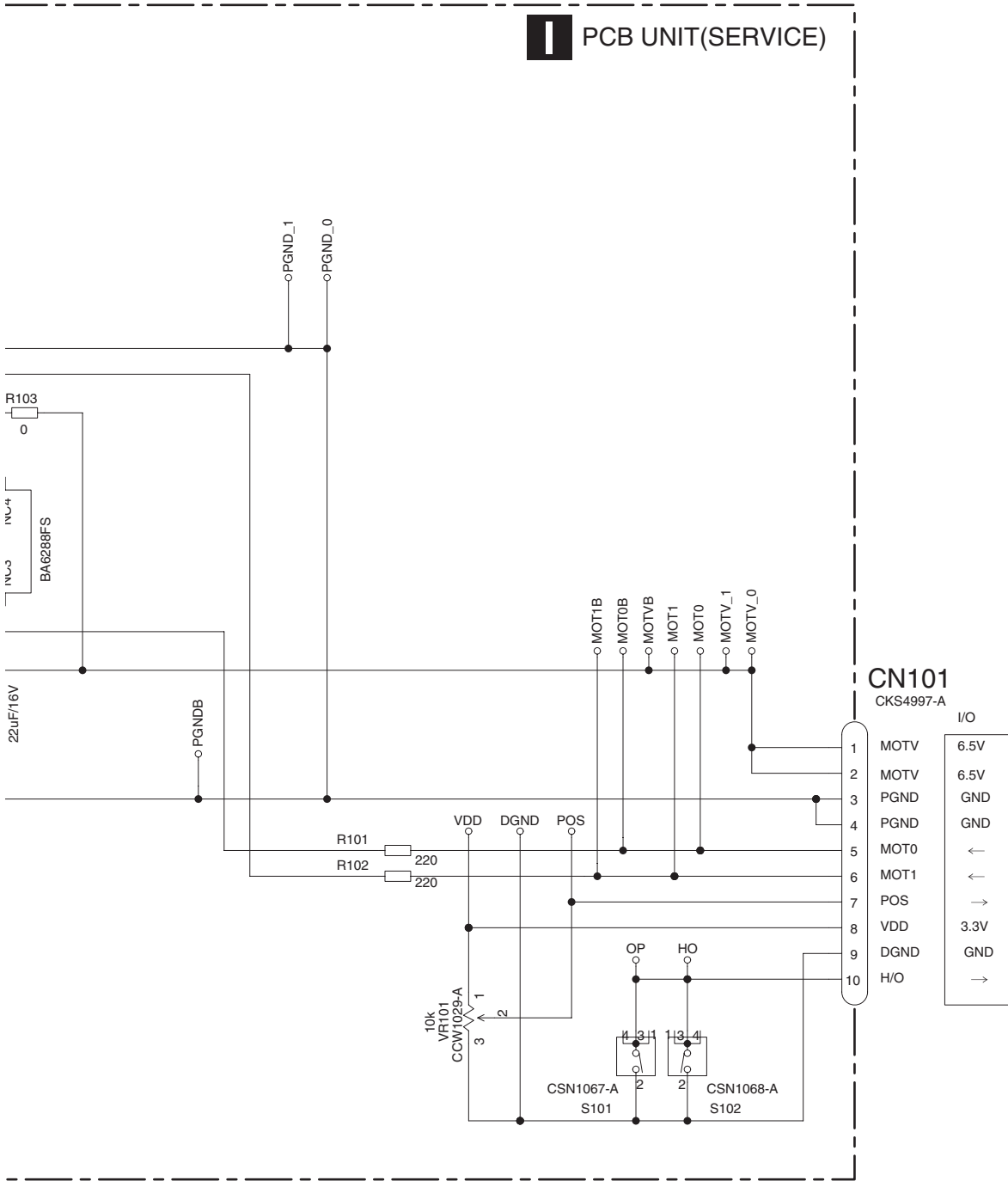
BUTTON LAYOUT



10.19 PCB UNIT(SERVICE)



I PCB UNIT(SERVICE)



CN101
CKS4997-A

I/O	
1	MOTV 6.5V
2	MOTV 6.5V
3	PGND GND
4	PGND GND
5	MOT0 ←
6	MOT1 ←
7	POS →
8	VDD 3.3V
9	DGND GND
10	H/O →

B
CN491

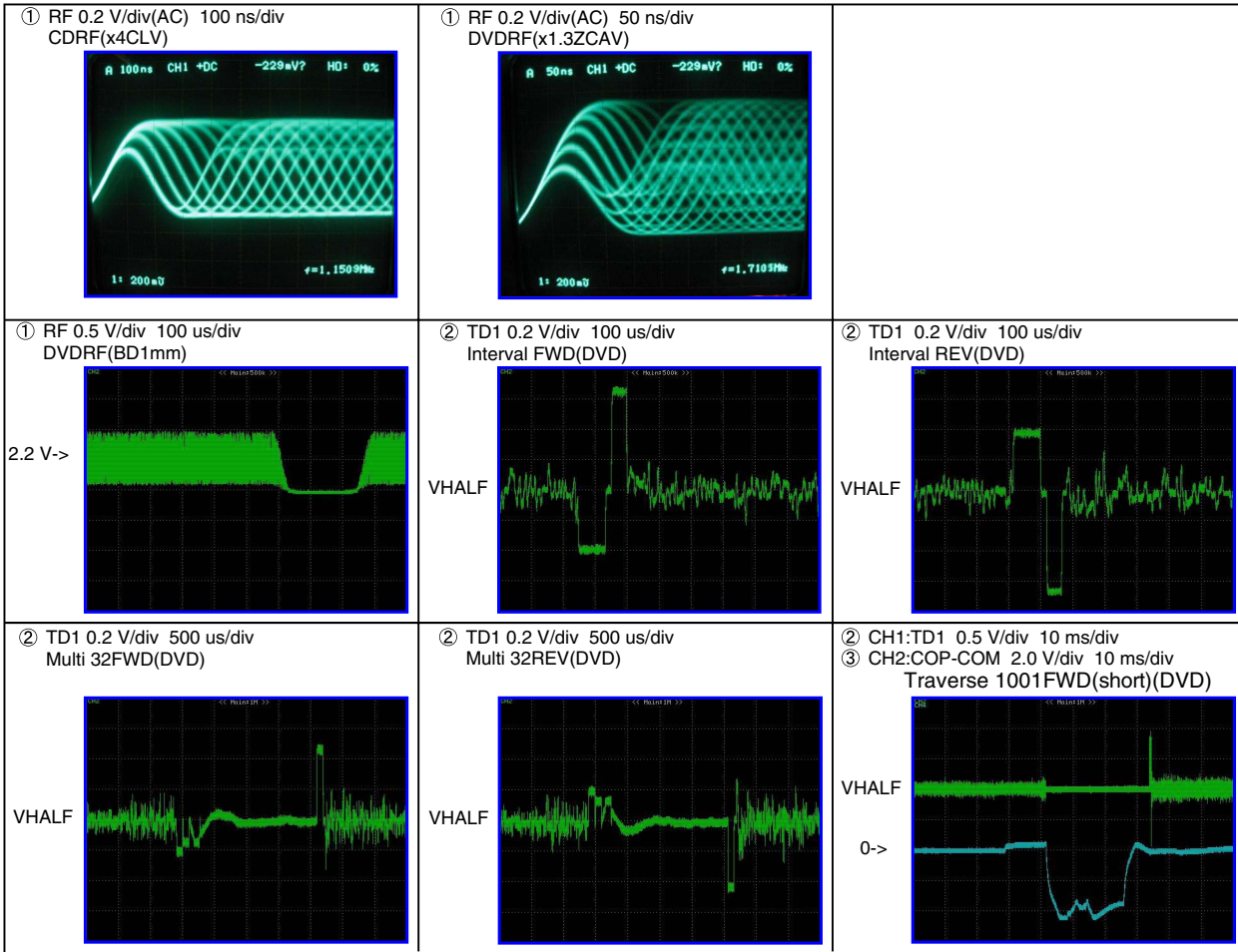


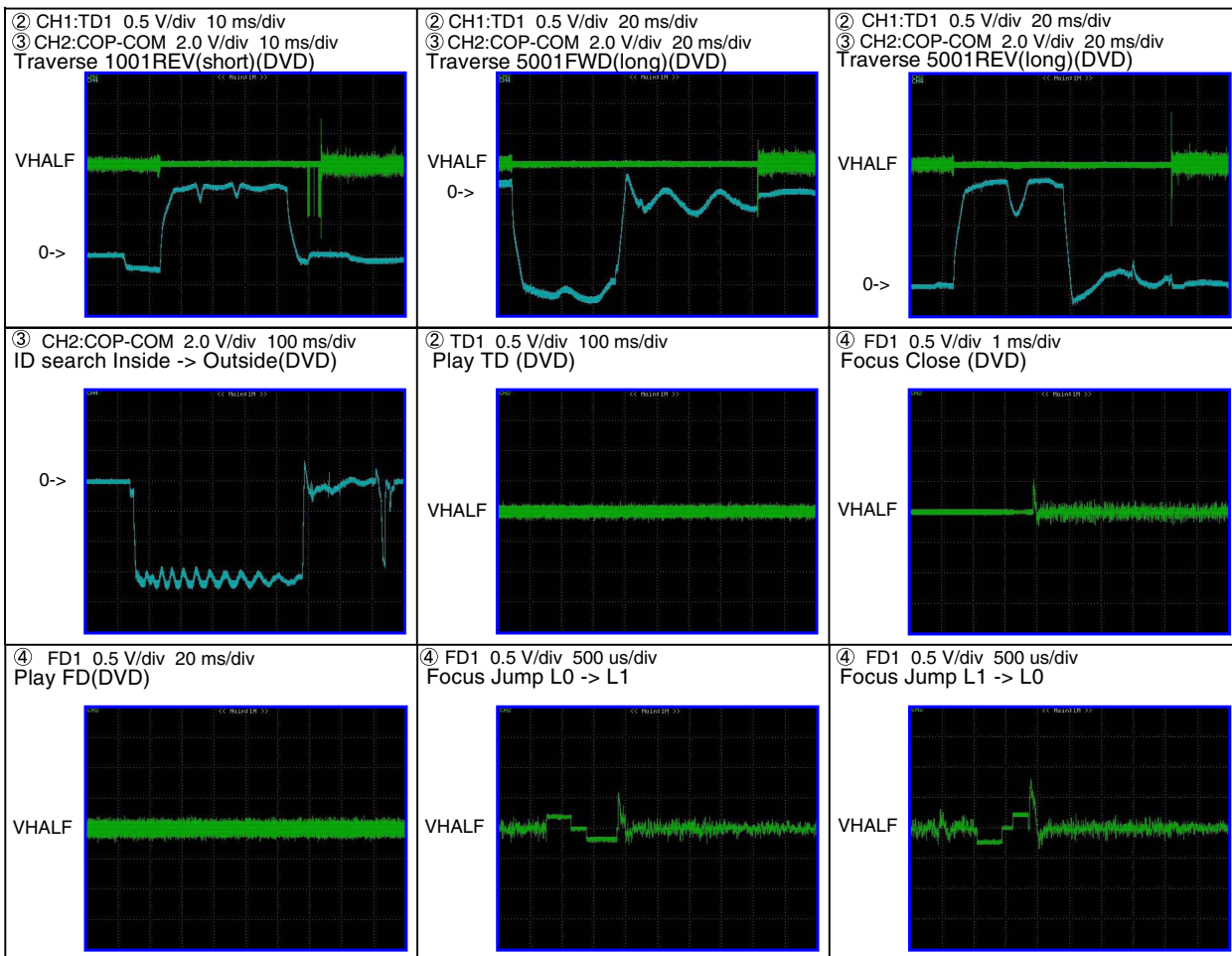
10.20 WAVEFORMS

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.





A

B

C

D

E

F

● CC UNIT

A Each power supply start wave pattern

- ①:CCD5
- ②:CCD3
- ③:CCD25
- ④:CCD12



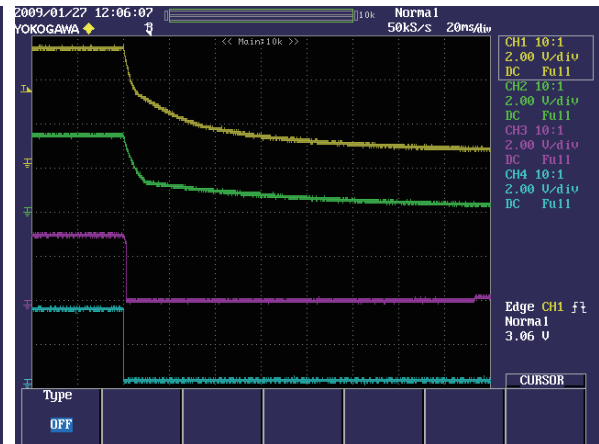
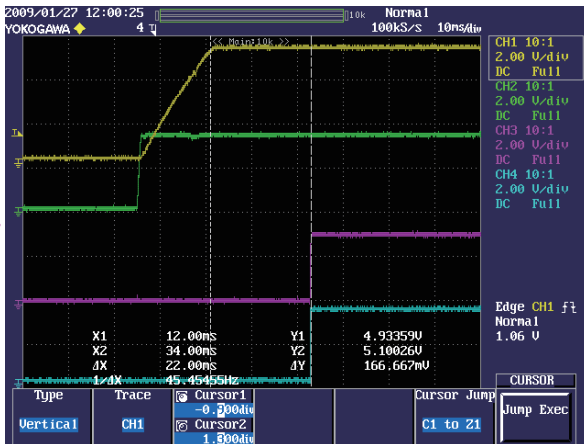
B Power supply control line start timing

- ①:CCD5
- ⑤:PLLON
- ⑥:IOON
- ⑦:PREON



D RST cancellation timing

- ①:CCD5
- ②:CCD3
- ⑧:JTG_RST
- ⑨:CC_RST



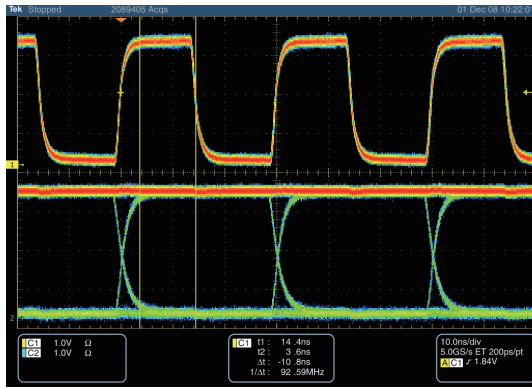
F

During Prima and TCON

During T-CON and LVDS

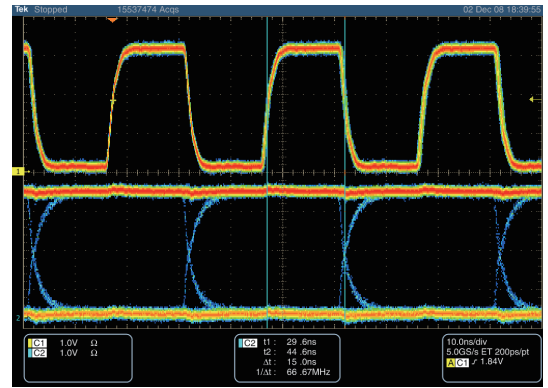
10:CLK

11:B1



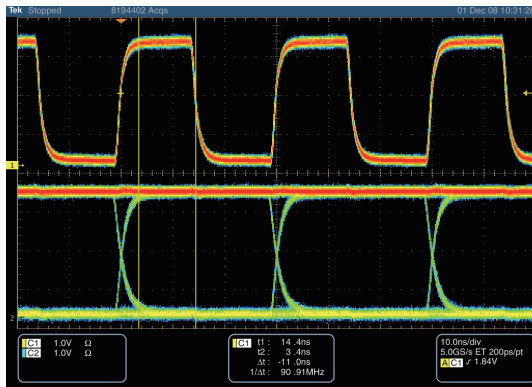
10:CLK

14:B4



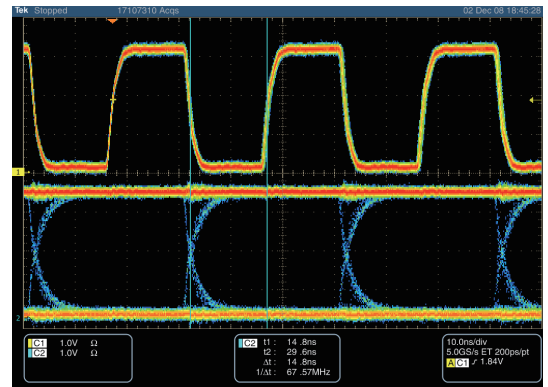
10:CLK

12:G0



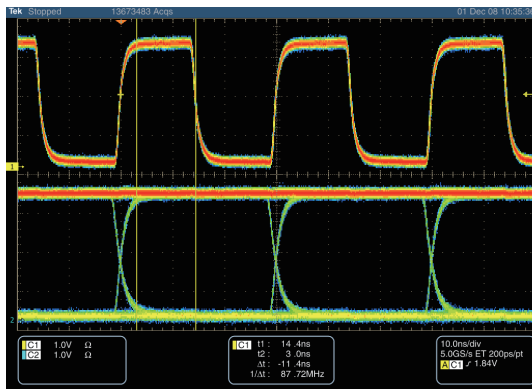
10:CLK

15:G5



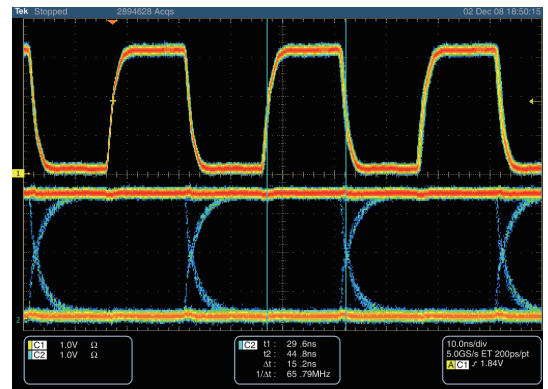
10:CLK

13:R1

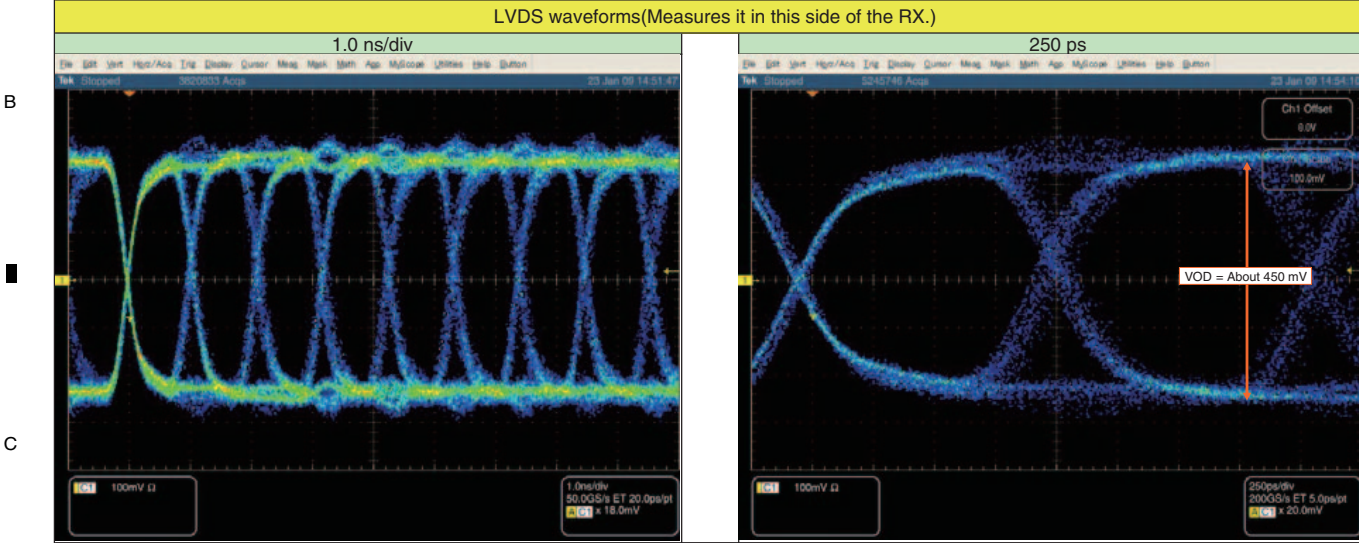
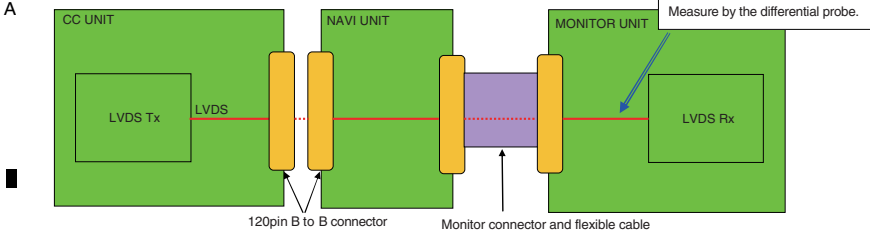


10:CLK

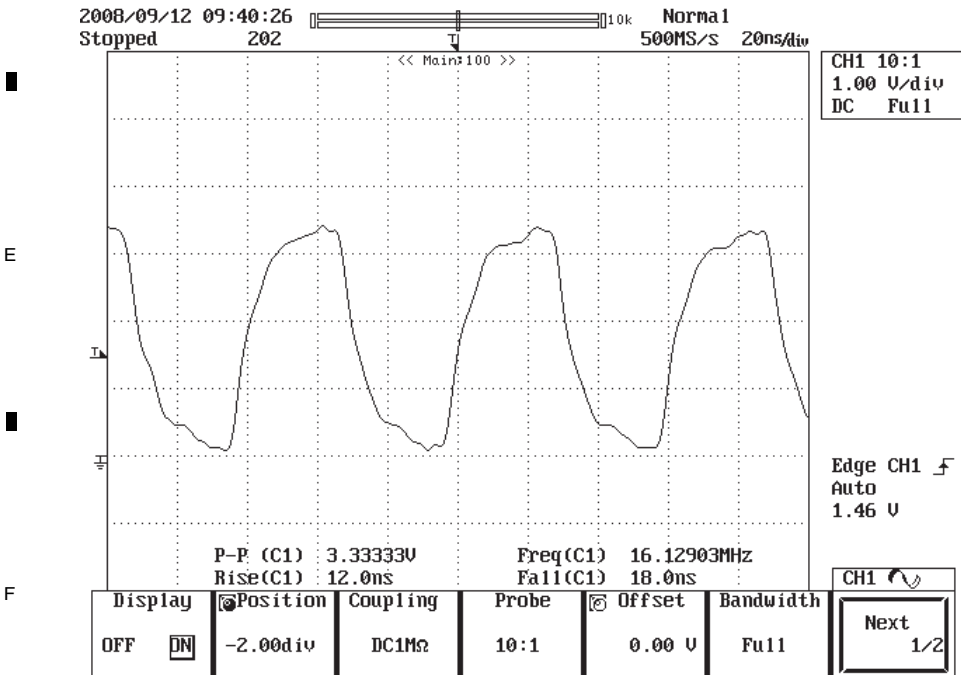
16:R4



LVDS waveforms

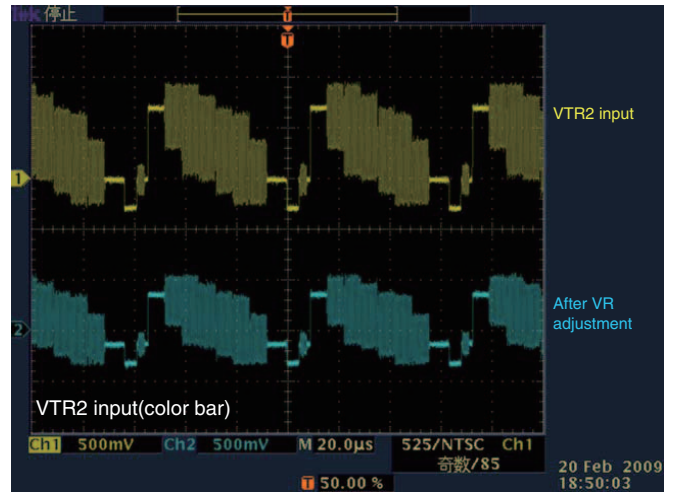
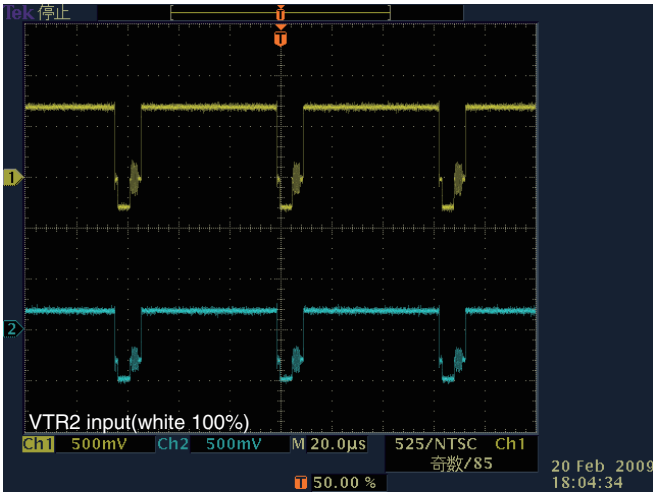


ACQCLK waveforms



AUDIO UNIT

VTR input and a composite wave pattern after the adjustment



A

B

C

D

E

F

11. PCB CONNECTION DIAGRAM

11.1 AUDIO UNIT

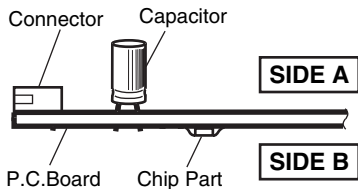
A

NOTE FOR PCB DIAGRAMS

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

For further information for respective destinations, be sure to check with the schematic diagram.

2. Viewpoint of PCB diagrams



A AUDIO UNIT

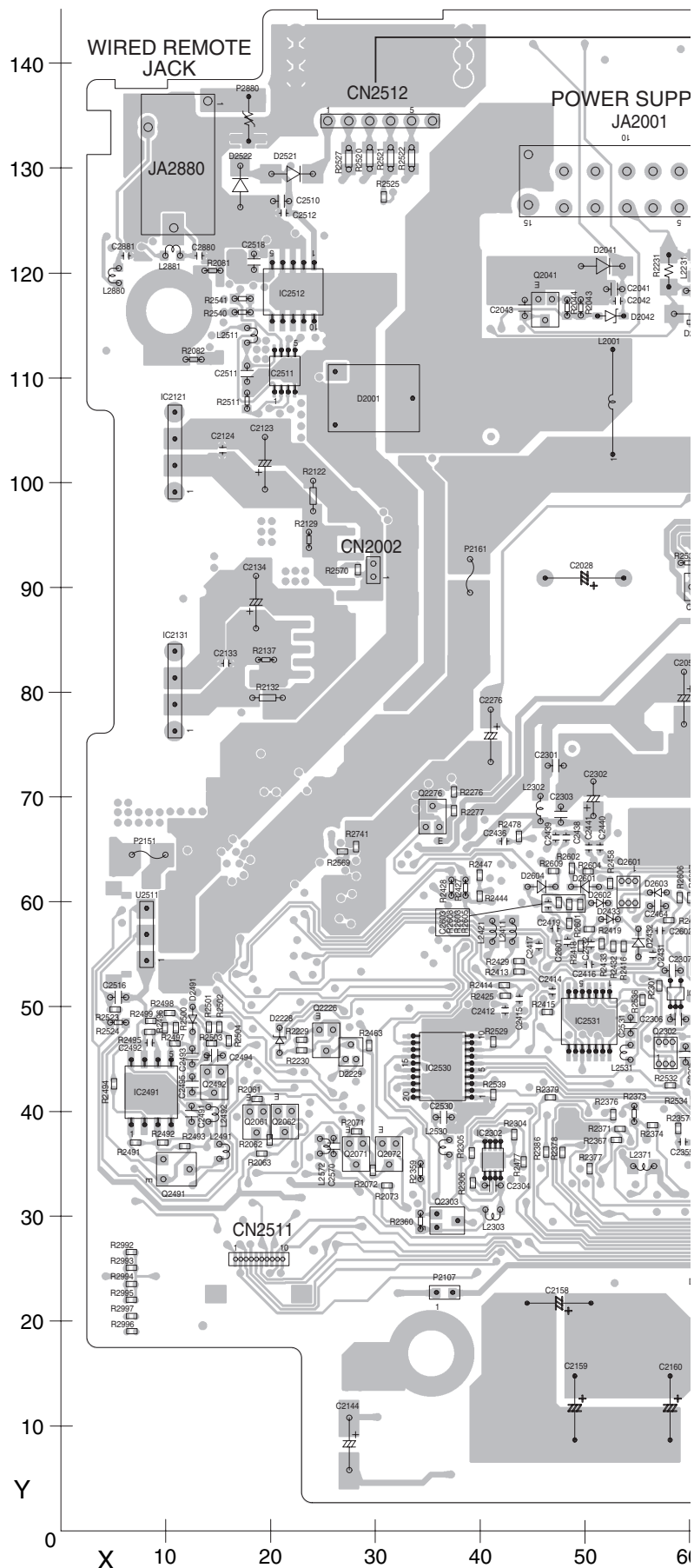
- | | |
|---------------------------------|------------------|
| ⚠ P 2107 (A,37,23) Fuse 250 mA | CEK1276 |
| ⚠ P 2151 (A,8,65) Fuse 1 A | CEK1254 |
| ⚠ P 2161 (A,39,91) Fuse 3.15 A | CEK1259 |
| ⚠ P 2162 (A,118,23) Fuse 1.5 A | CEK1282 |
| ⚠ P 2176 (A,110,26) Fuse 0.5 A | CEK1278 |
| ⚠ P 2880 (A,18,135) Poly Switch | MINISMD C075F/24 |

C

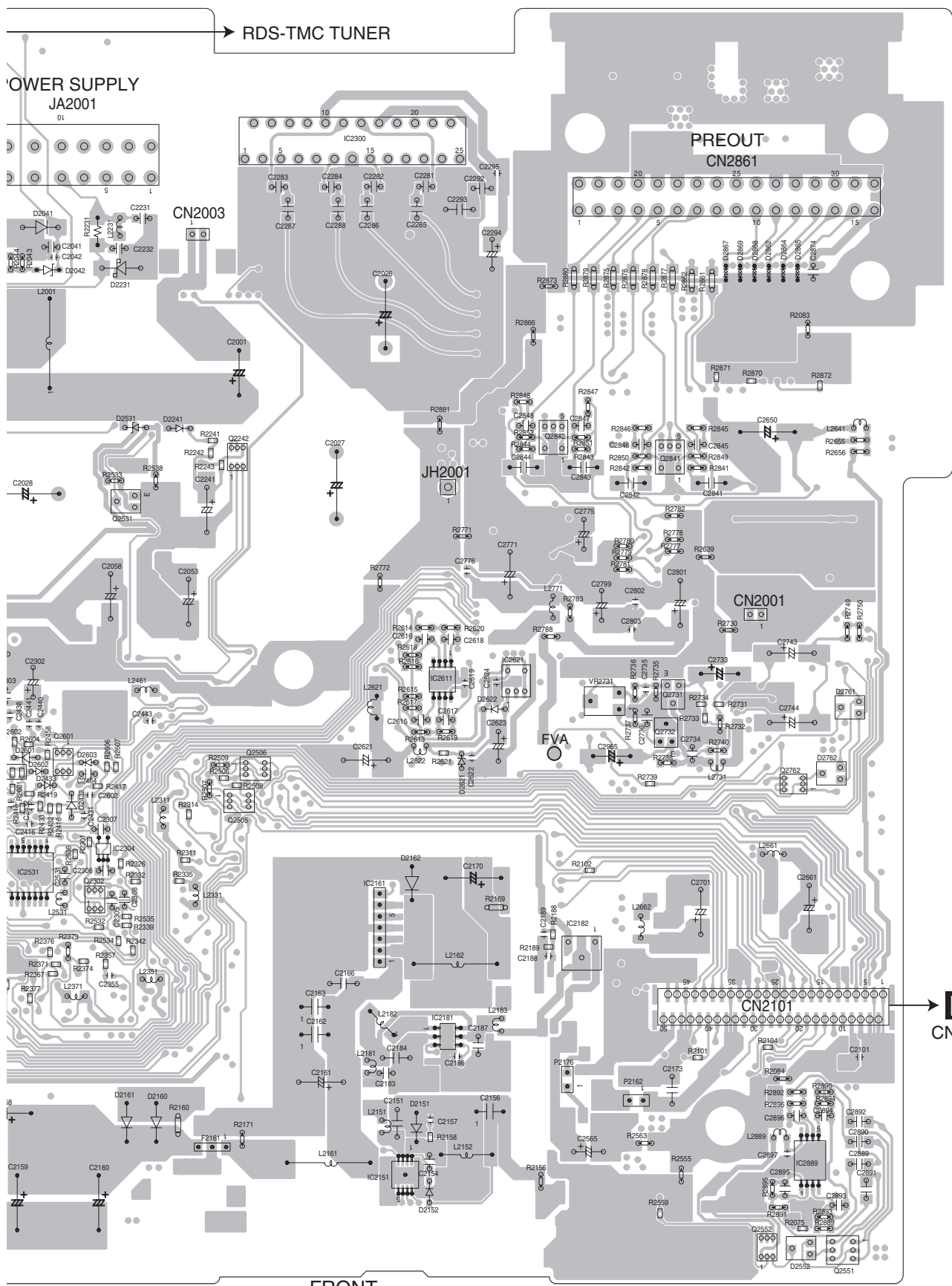
D

E

F



SIDE A



A

B

C

D

E

F

A

A

A AUDIO UNIT

- ⚠ P 2861 (B,123,133) Poly Switch MINISMDC075F/24
- ⚠ P 2862 (B,140,138) Poly Switch MINISMDC075F/24
- ⚠ P 2863 (B,129,136) Poly Switch MINISMDC075F/24
- ⚠ P 2864 (B,134,136) Poly Switch MINISMDC075F/24

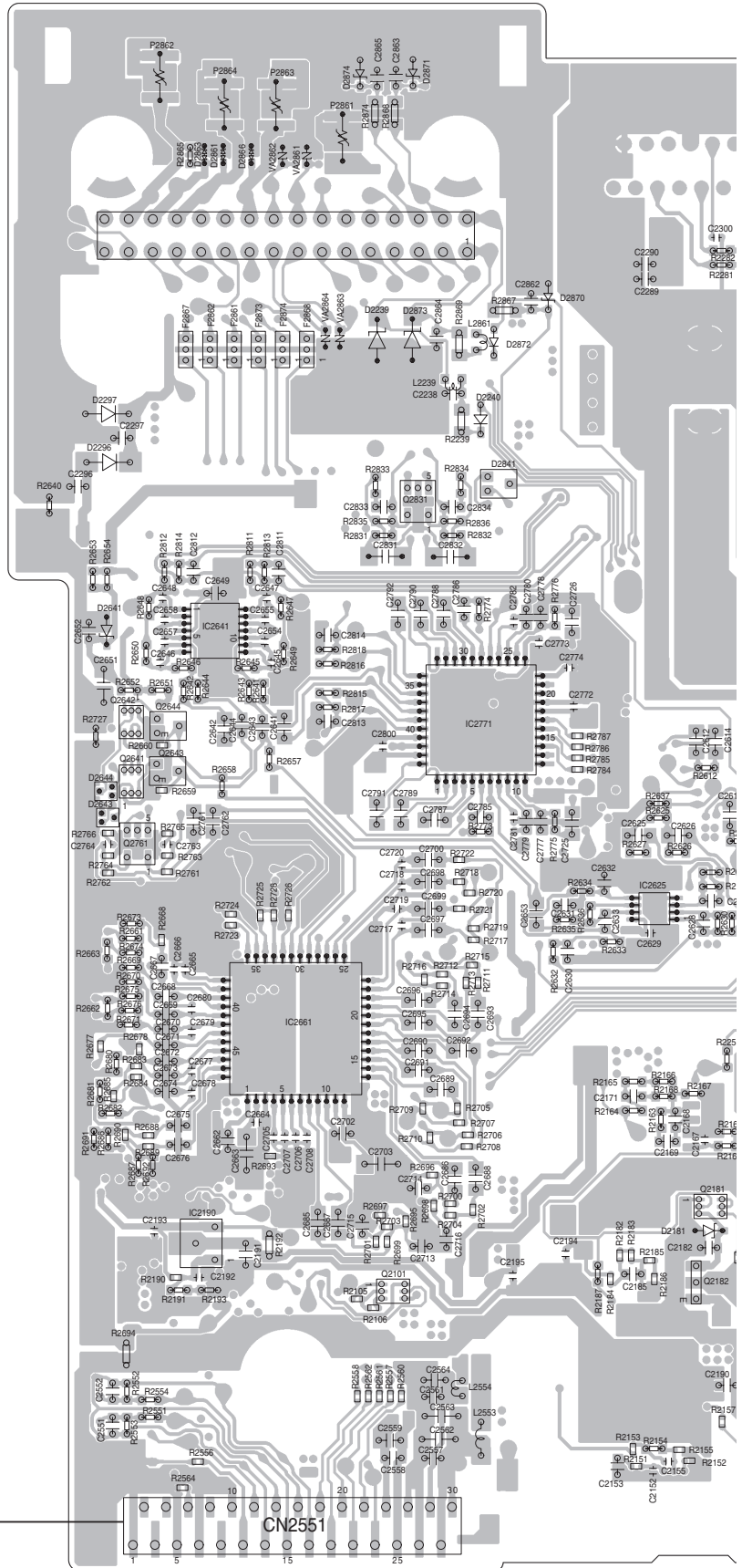
B

C

D

E

F



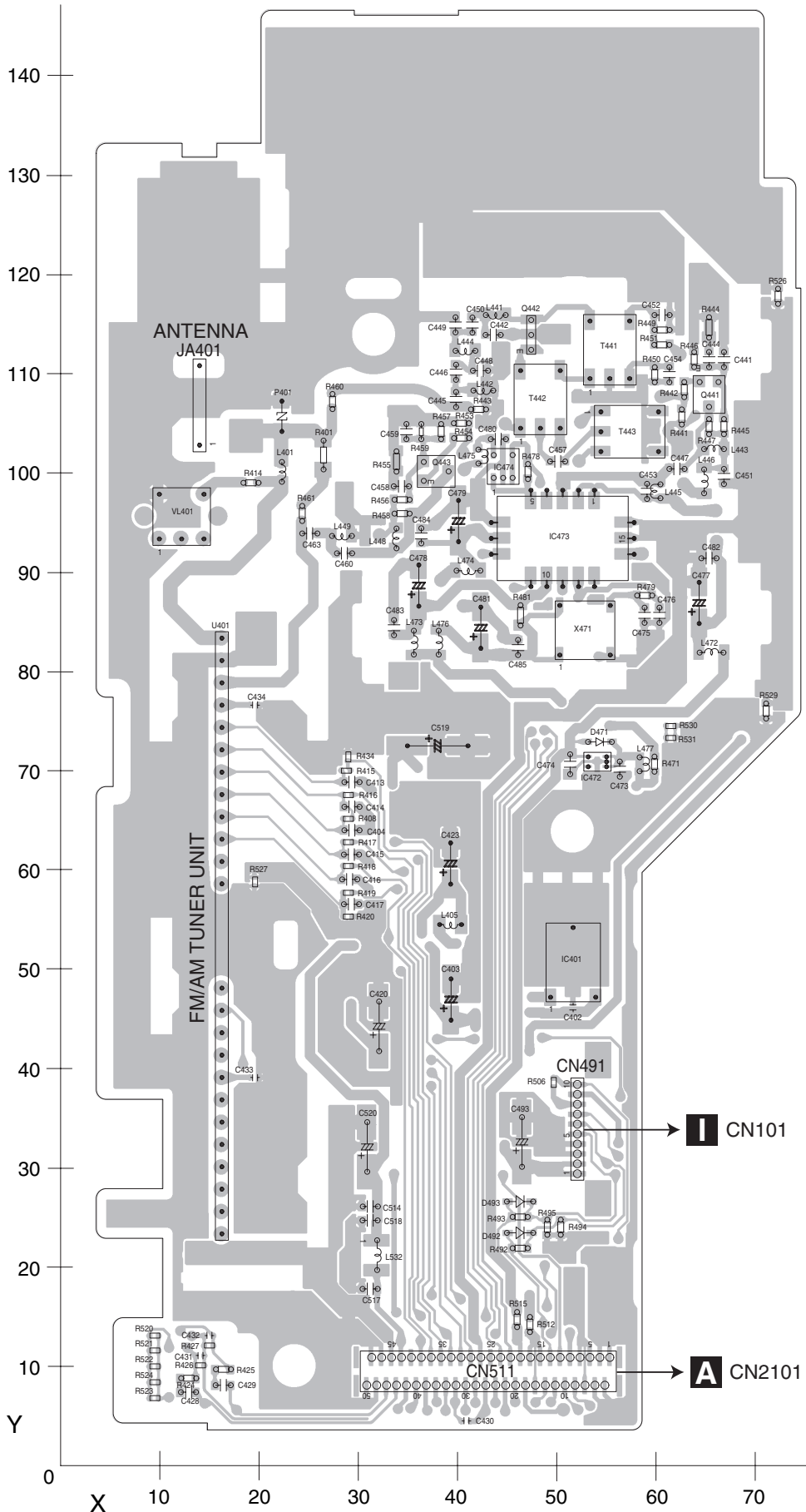
C ←
CN1901

A

11.2 TUNER IF UNIT

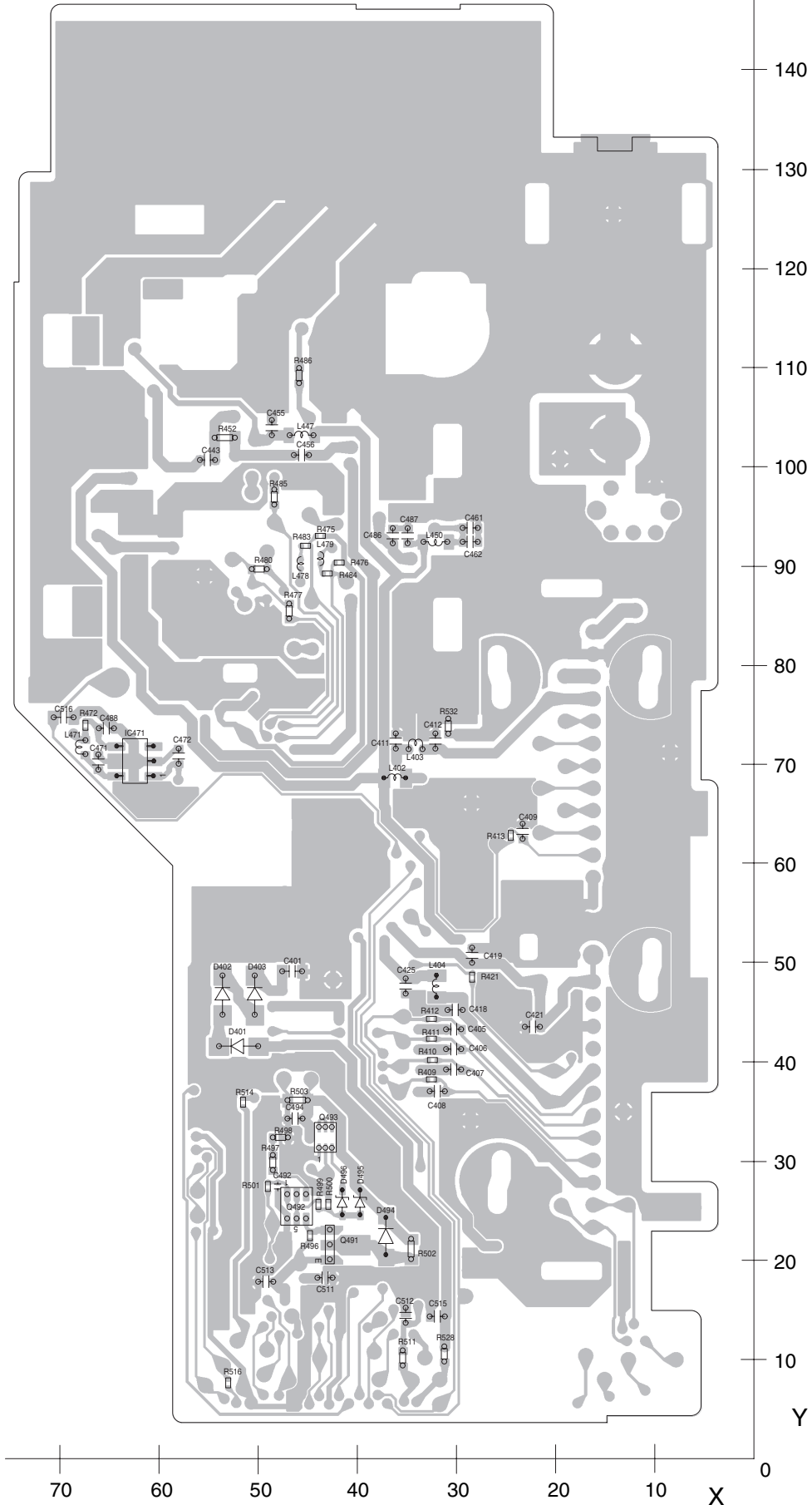
B TUNER IF UNIT

SIDE A



B TUNER IF UNIT

SIDE B



A
B
C
D
E
F

B

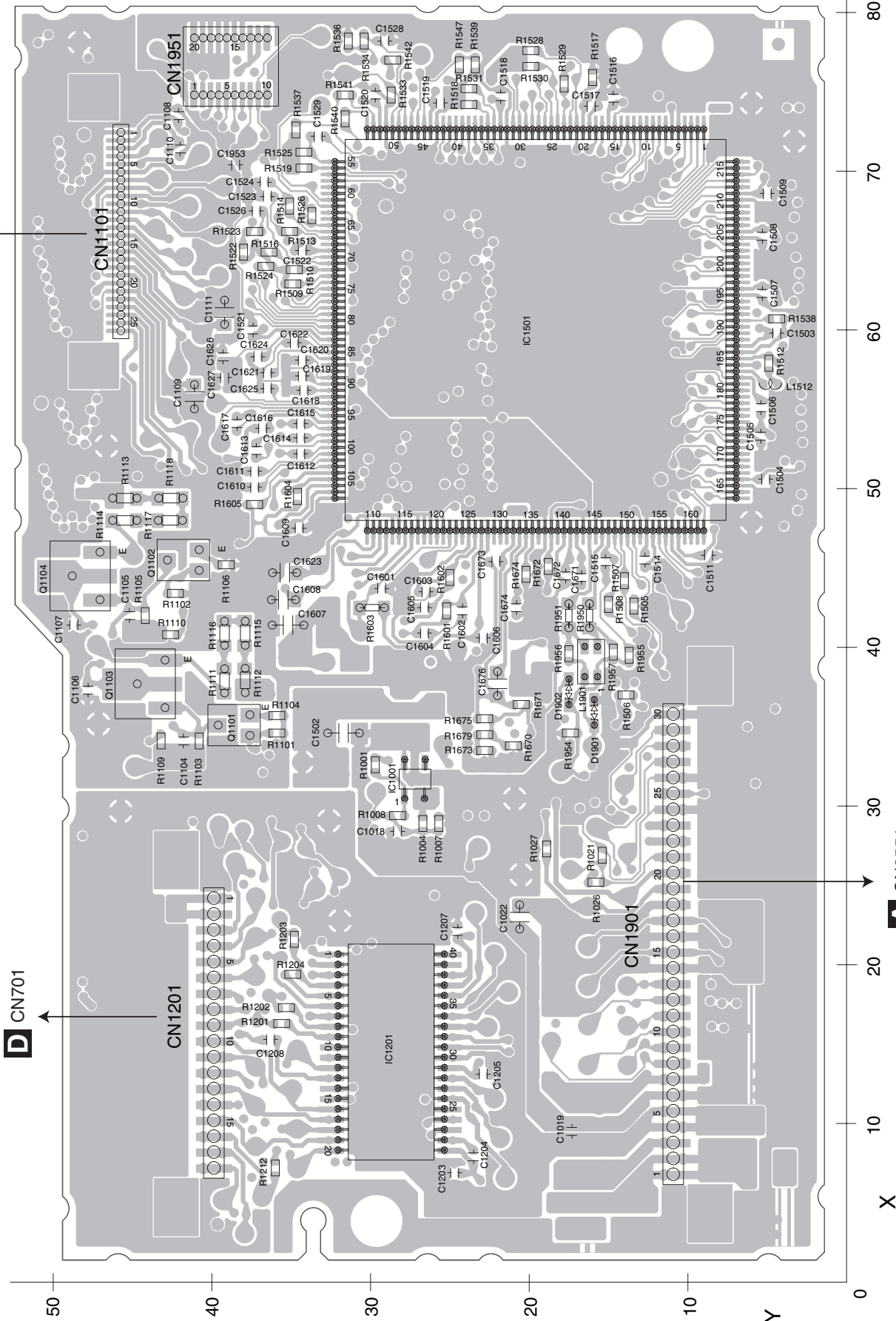
11.3 DVD CORE UNIT

C DVD CORE UNIT

SIDE A

A
B
C
D
E
F

PICKUP UNIT (SERVICE)



11.4 CONNECT PCB

D CONNECT PCB

SIDE A

A

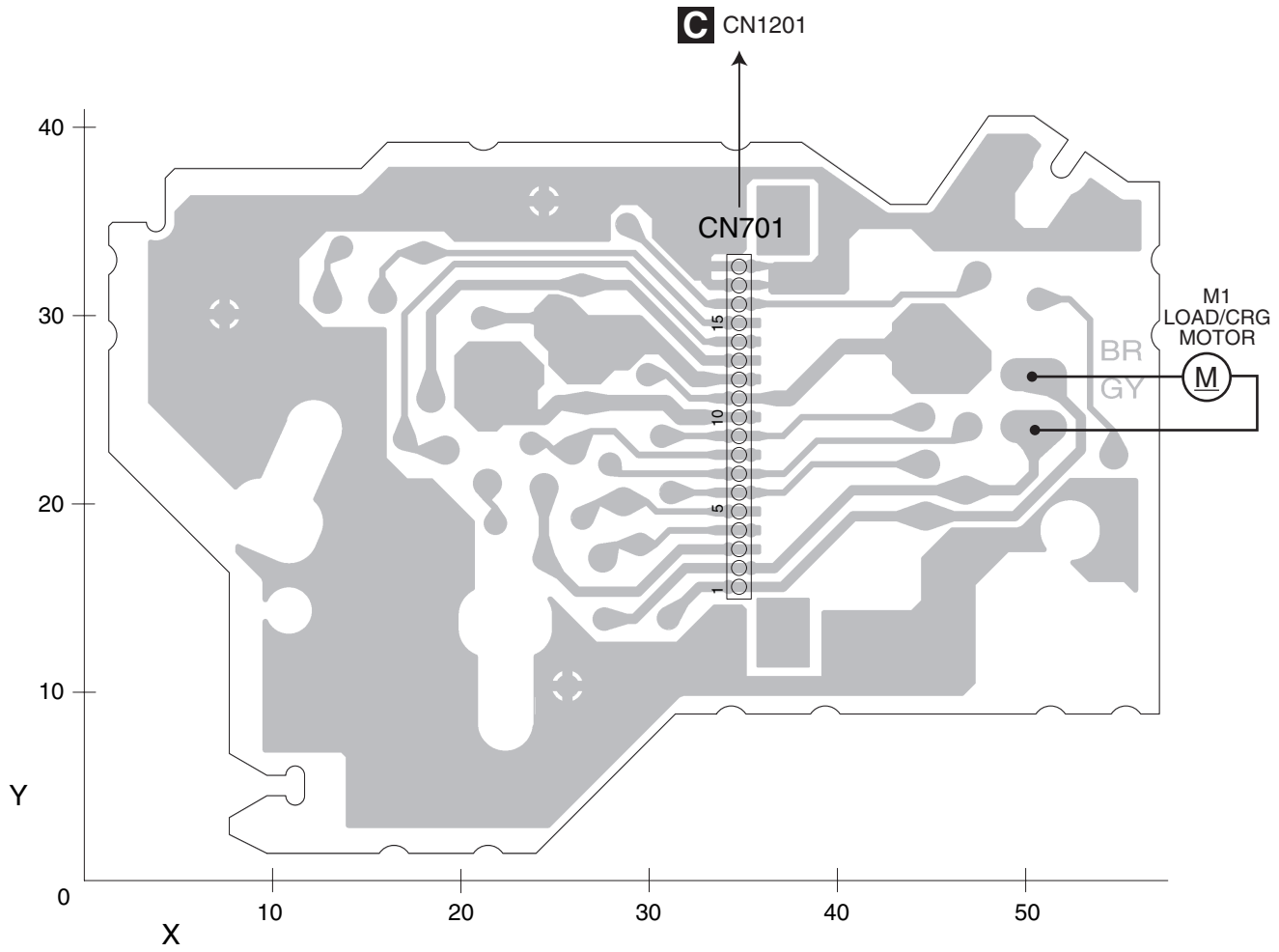
B

C

D

E

F



D

A

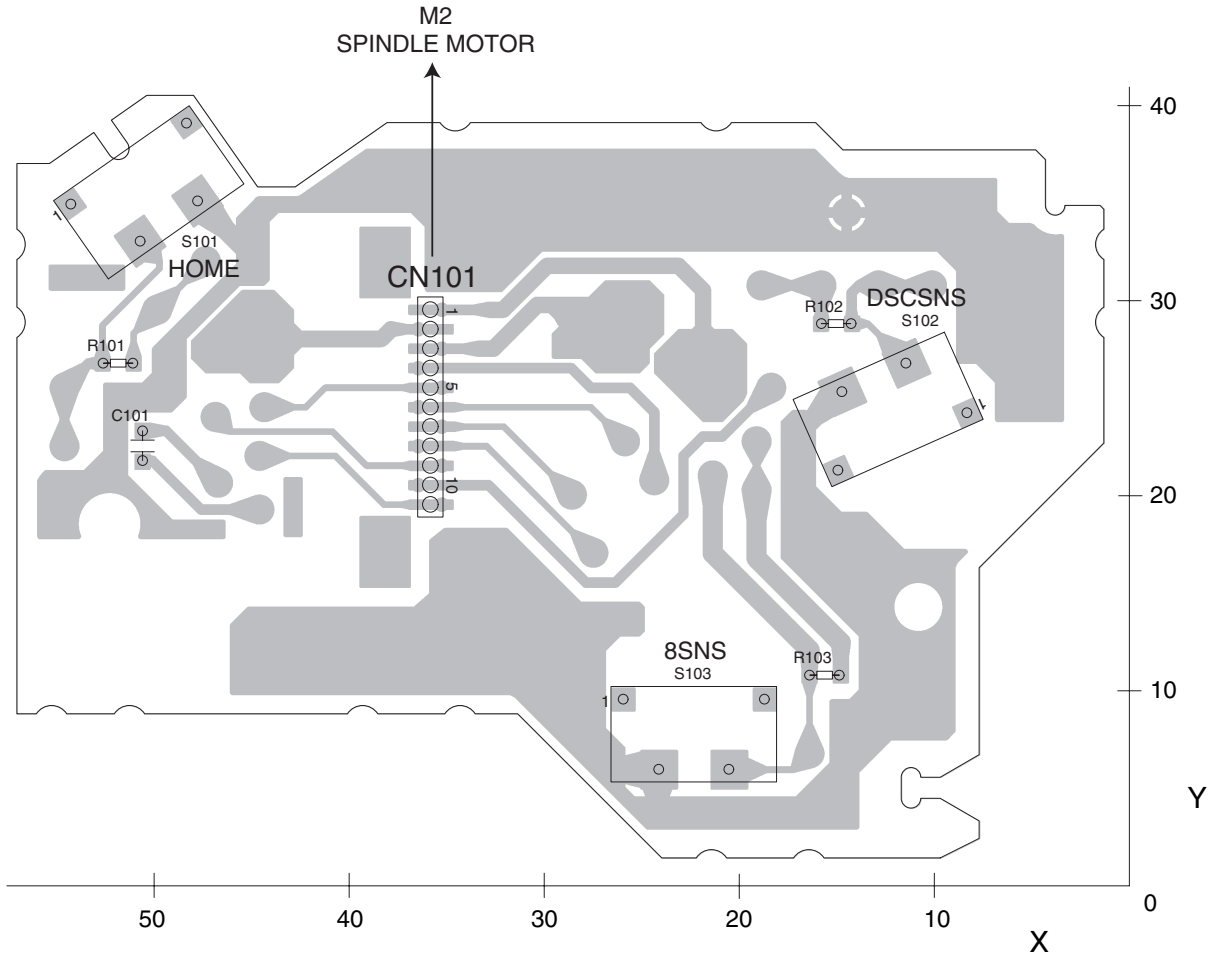
B

C

D

E

F



1

2

3

4

CC UNIT

A

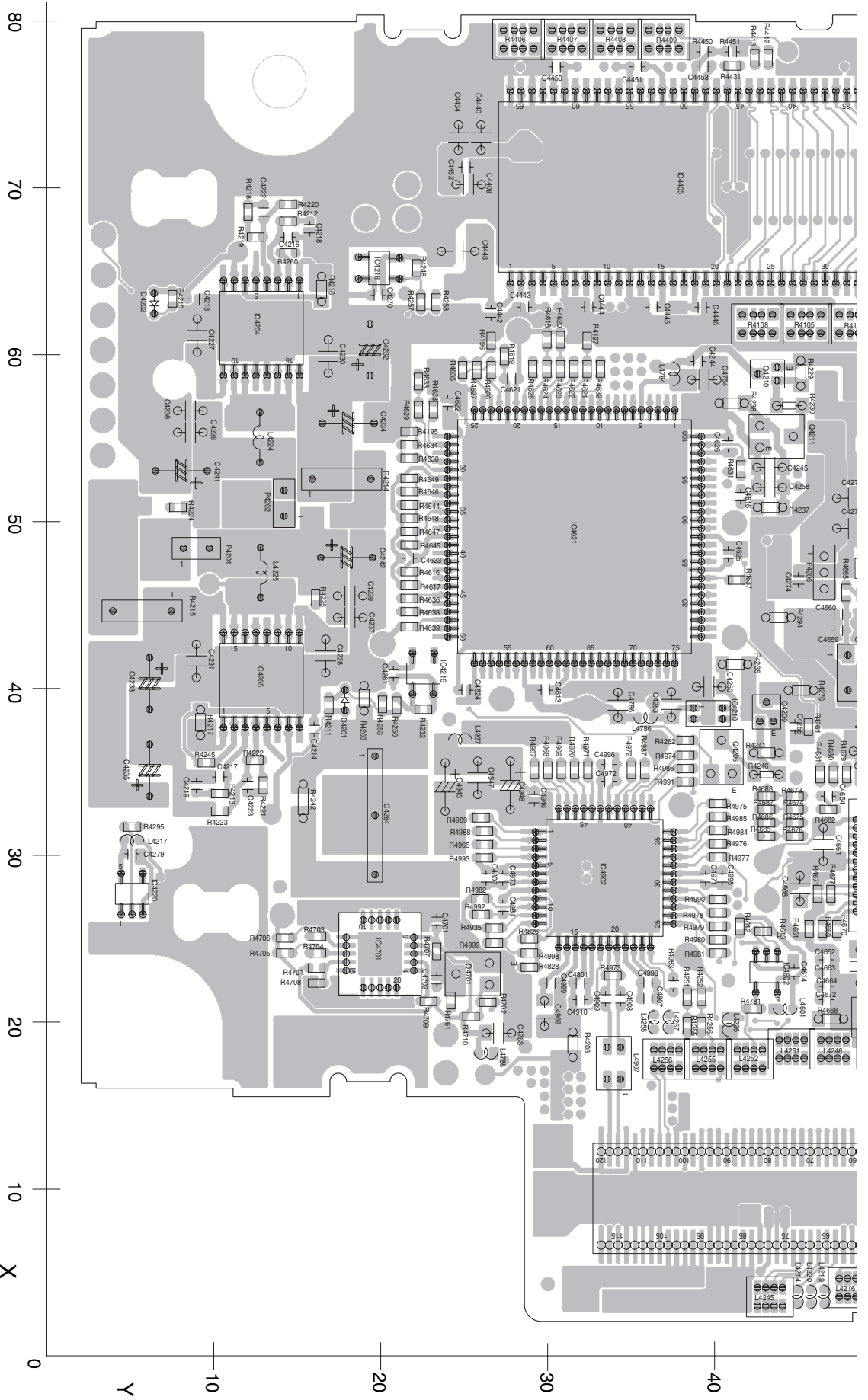
B

C

D

E

F



AVIC-Z110BT/XN/UC

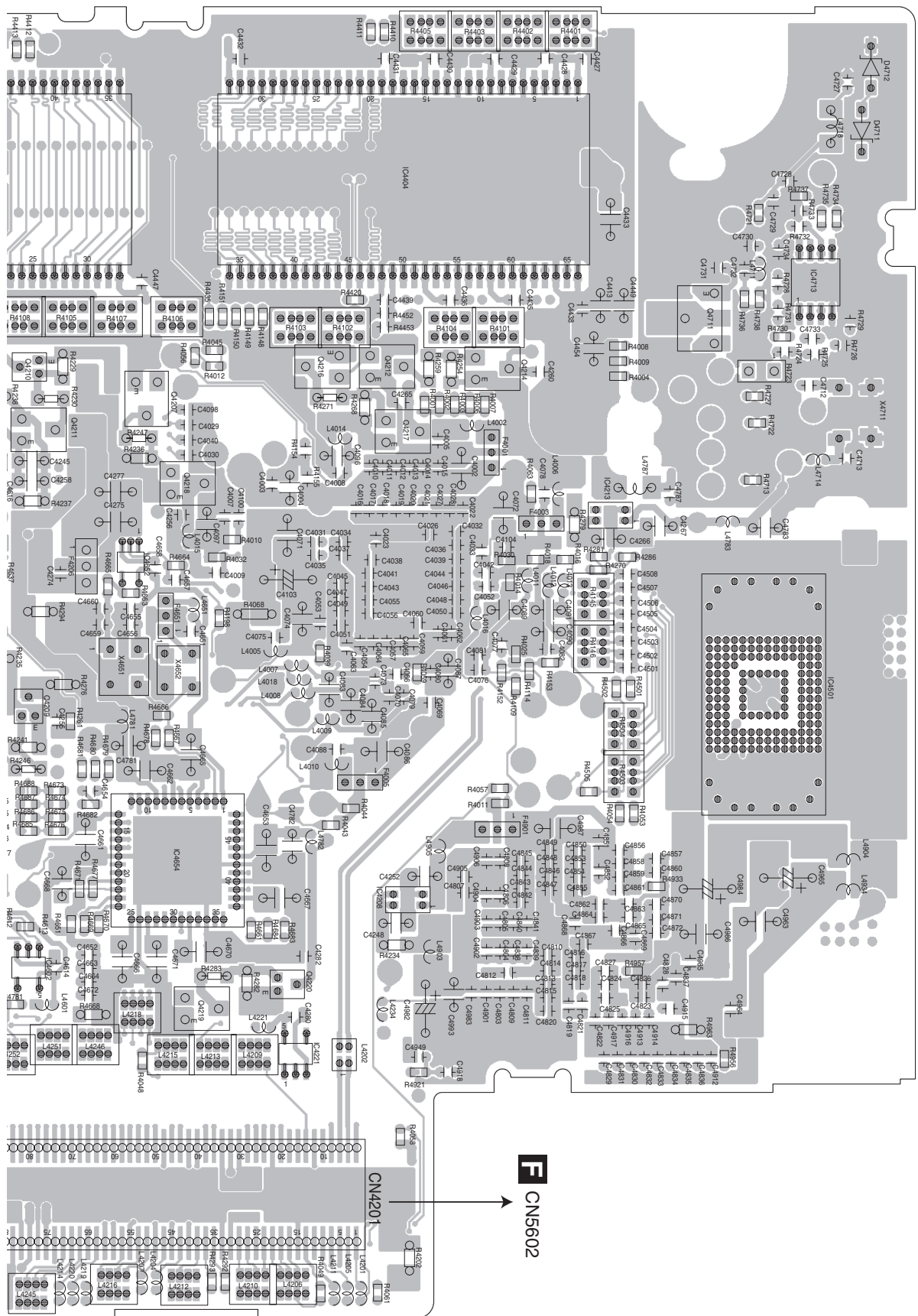
1

2

3

4

⚠ P 4201 (B.48.9) Fuse 1.75 A CEK1283
⚠ P 4202 (B.51.14) Fuse 1.5 A CEK1282



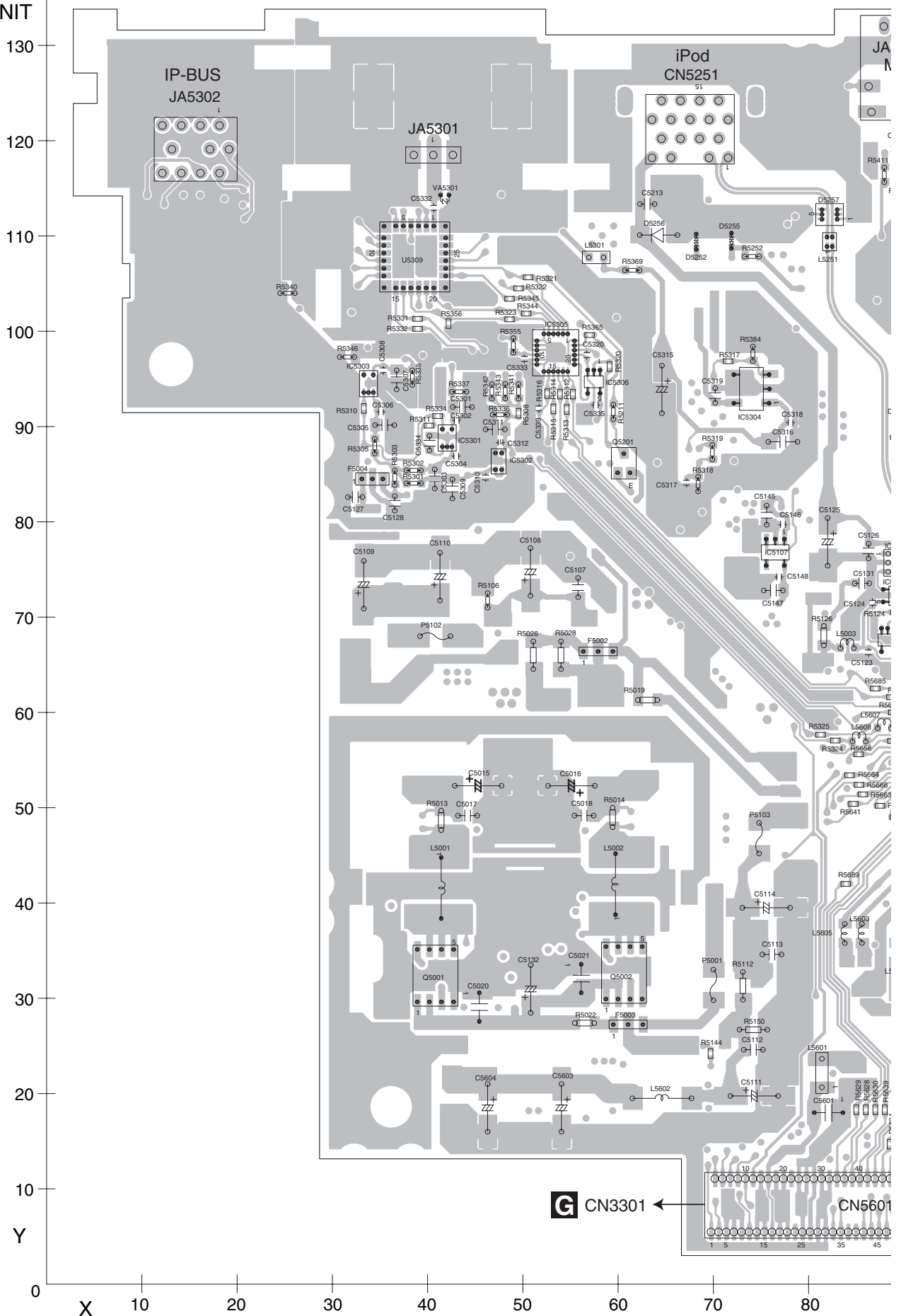
F CN5602



11.6 NAVI UNIT

F NAVI UNIT

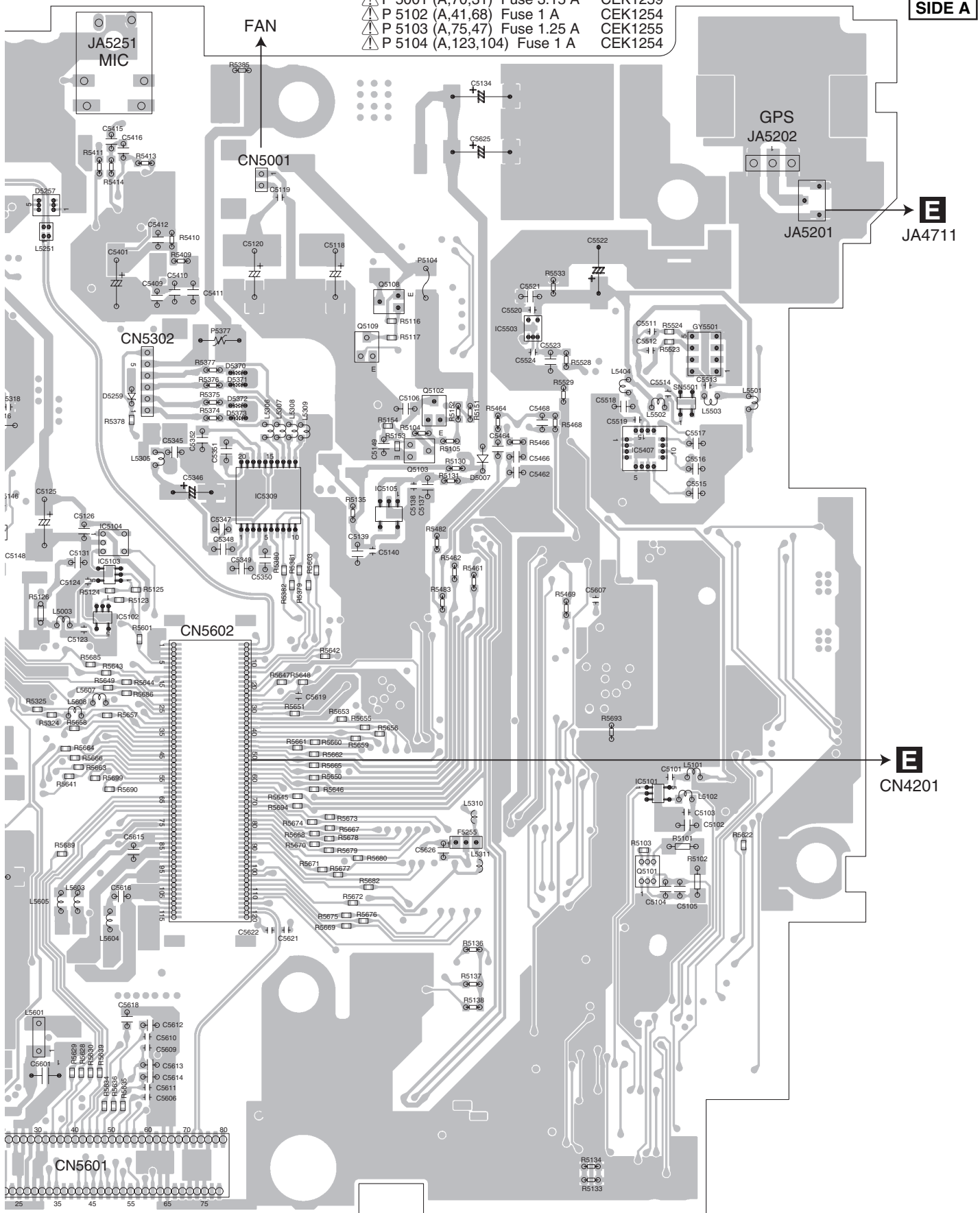
A
B
C
D
E
F



AVIC-Z110BT/XN/UC

- ⚠ P 5001 (A,70,31) Fuse 3.15 A CEK1259
- ⚠ P 5102 (A,41,68) Fuse 1 A CEK1254
- ⚠ P 5103 (A,75,47) Fuse 1.25 A CEK1255
- ⚠ P 5104 (A,123,104) Fuse 1 A CEK1254

SIDE A



A

B

C

D

E

F

F NAVI UNIT

⚠ P 5378 (B,79,115) Poly Switch MINISMDC020F

A

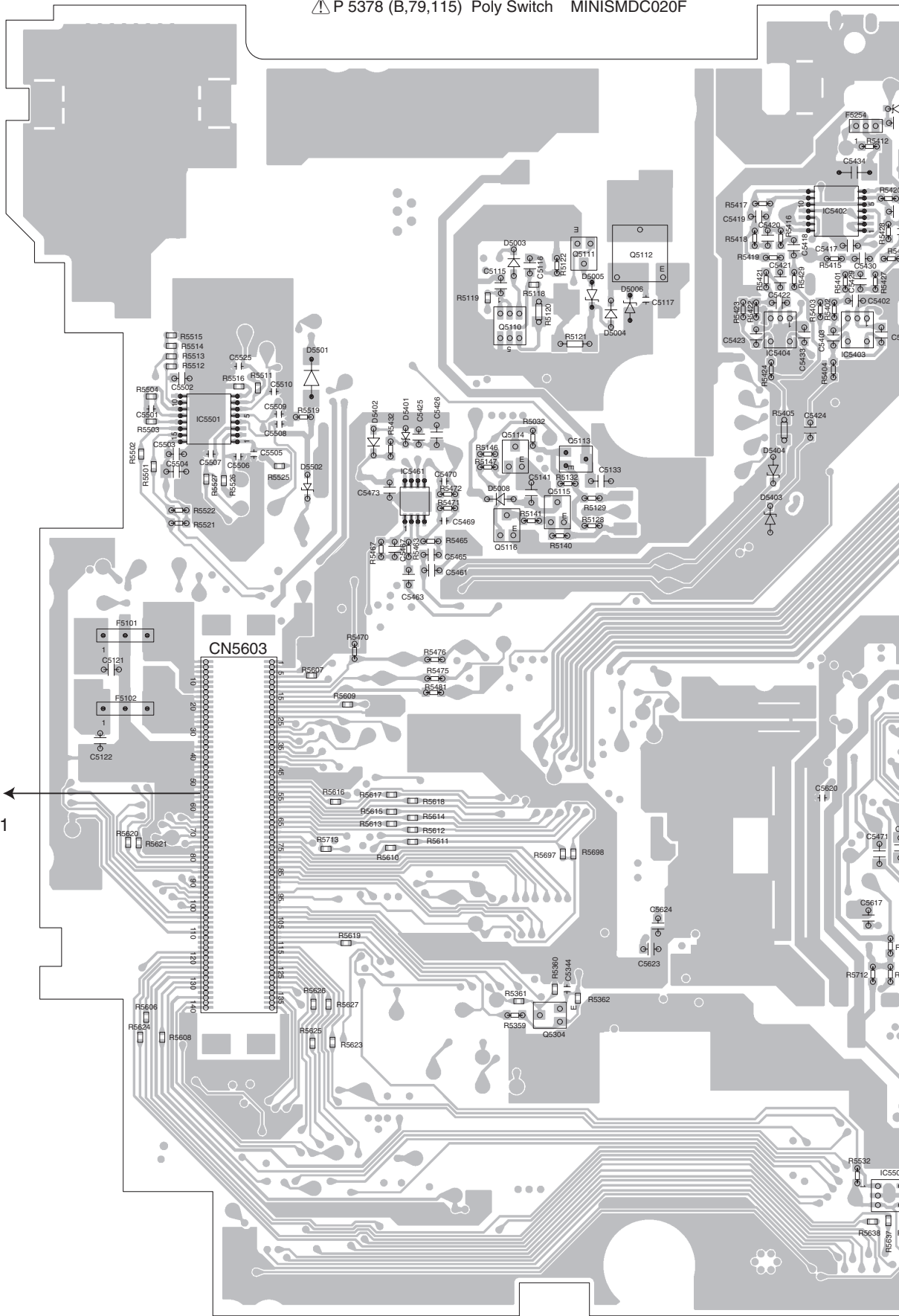
B

C

D

E

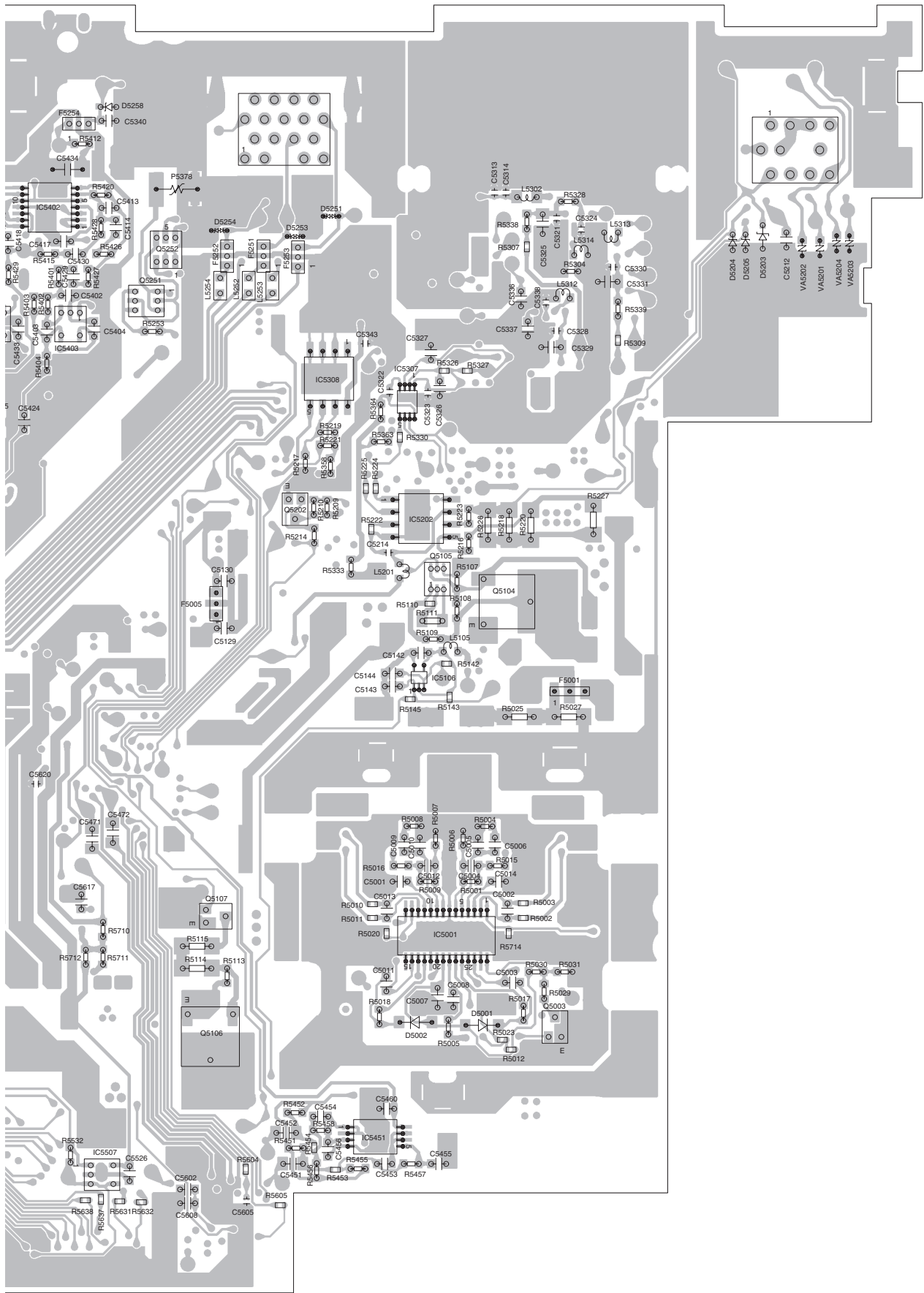
F



A ←
CN2571

CN5603

SIDE B



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

A
B
C
D
E
F

11.7 MONITOR UNIT

G MONITOR UNIT

A

B

C

D

E

F

Y

X

0

10

20

30

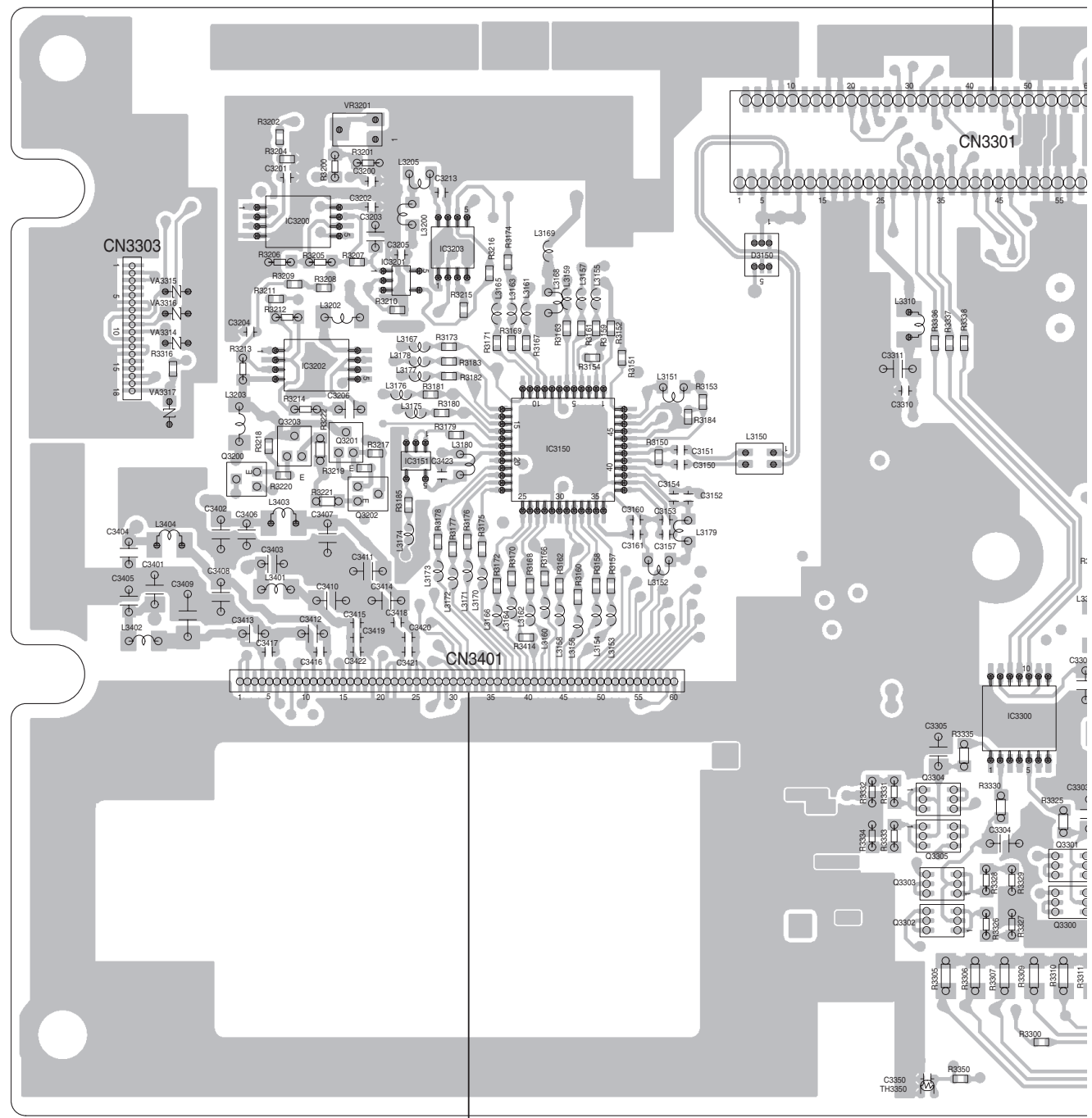
1

2

3

4

F CN5601



LCD PANEL

AVIC-Z110BT/XN/UC



1

2

3

4

SIDE A

A

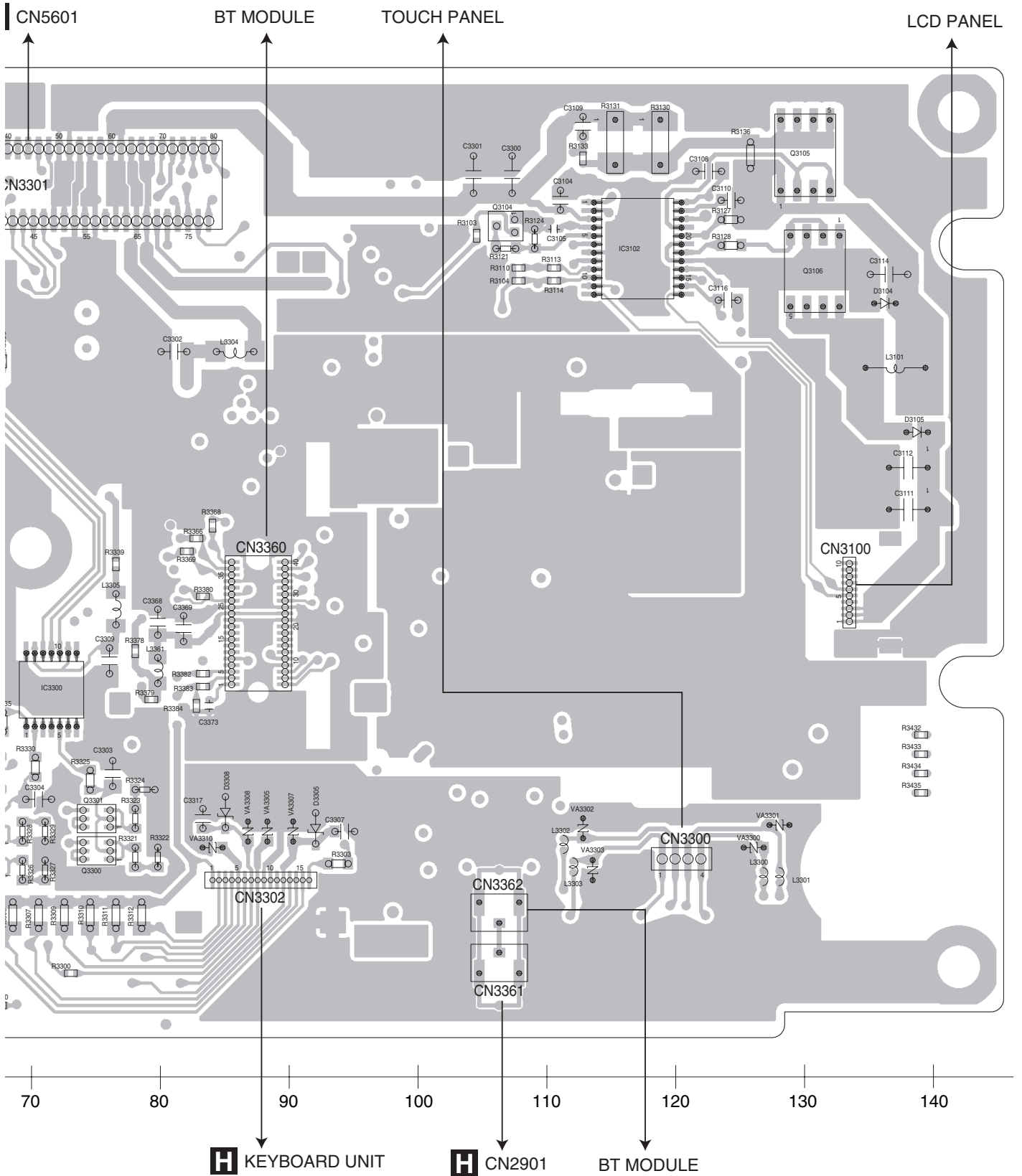
B

C

D

E

F



G MONITOR UNIT

A

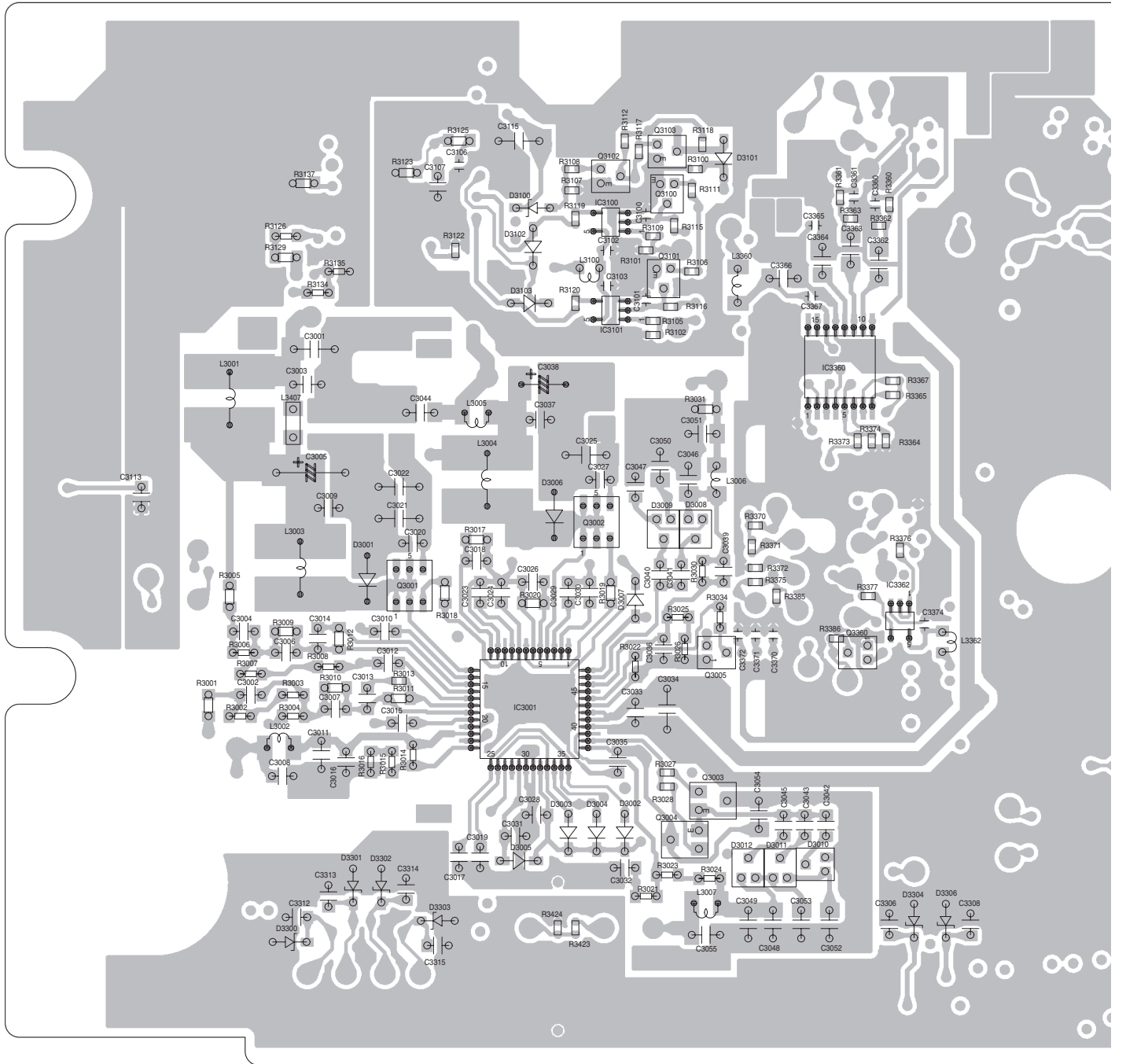
B

C

D

E

F



140

130

120

110

100

90

80

70

SIDE B

A

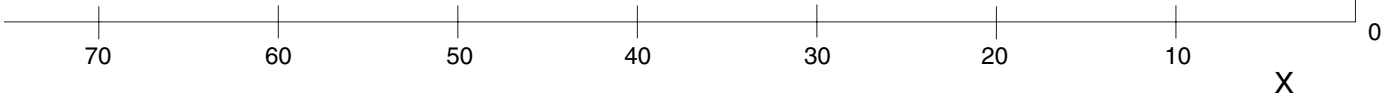
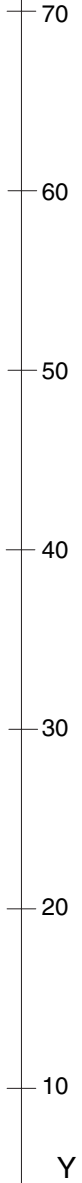
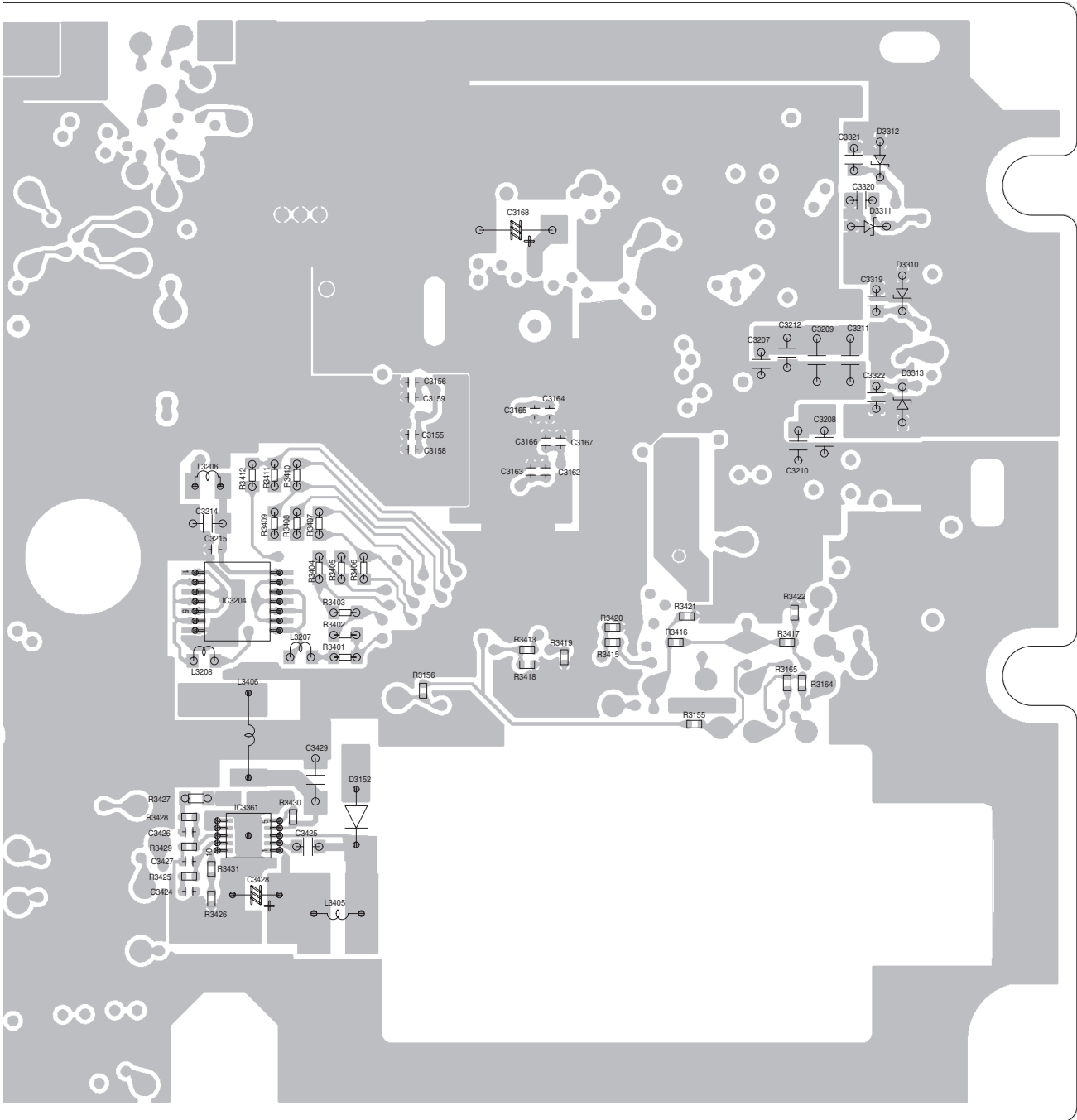
B

C

D

E

F



11.8 KEYBOARD UNIT

H KEYBOARD UNIT

SIDE A

A

B

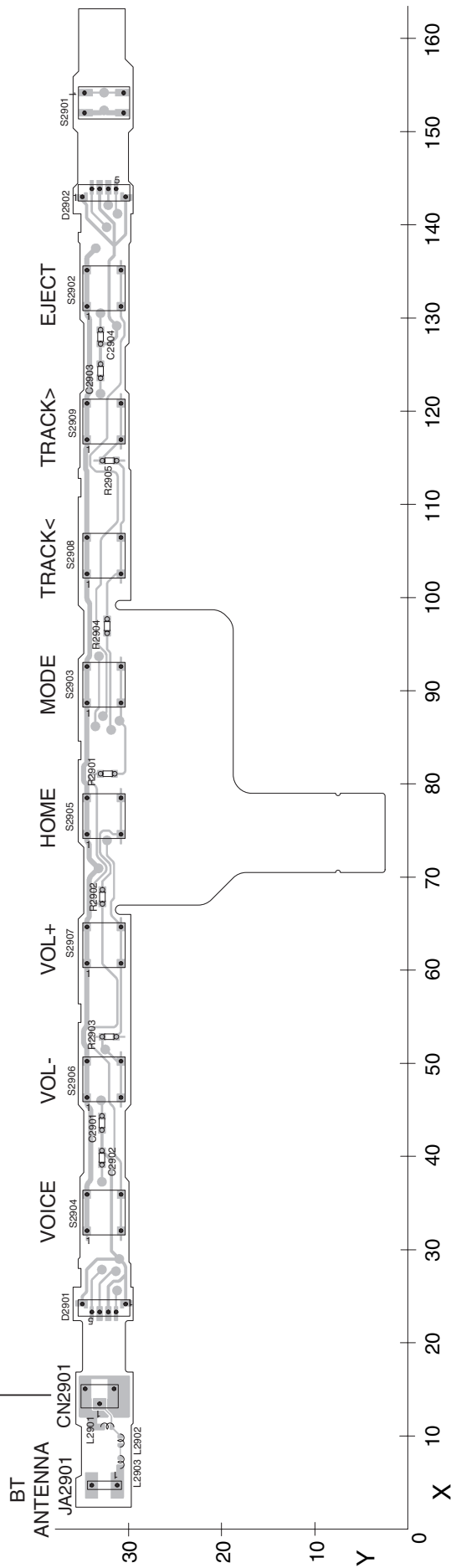
C

D

E

F

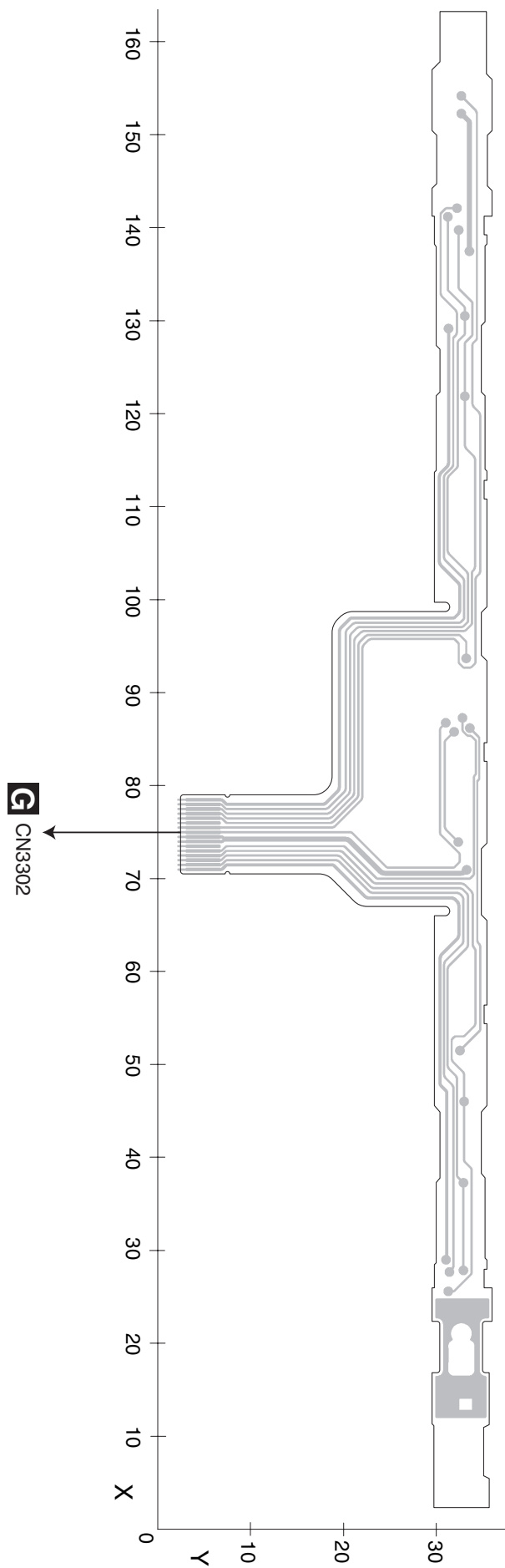
G CN3361



AVIC-Z110BT/XN/UC

H KEYBOARD UNIT

SIDE B



AVIC-Z110BT/XN/UC

H

11.9 PCB UNIT(SERVICE)

1

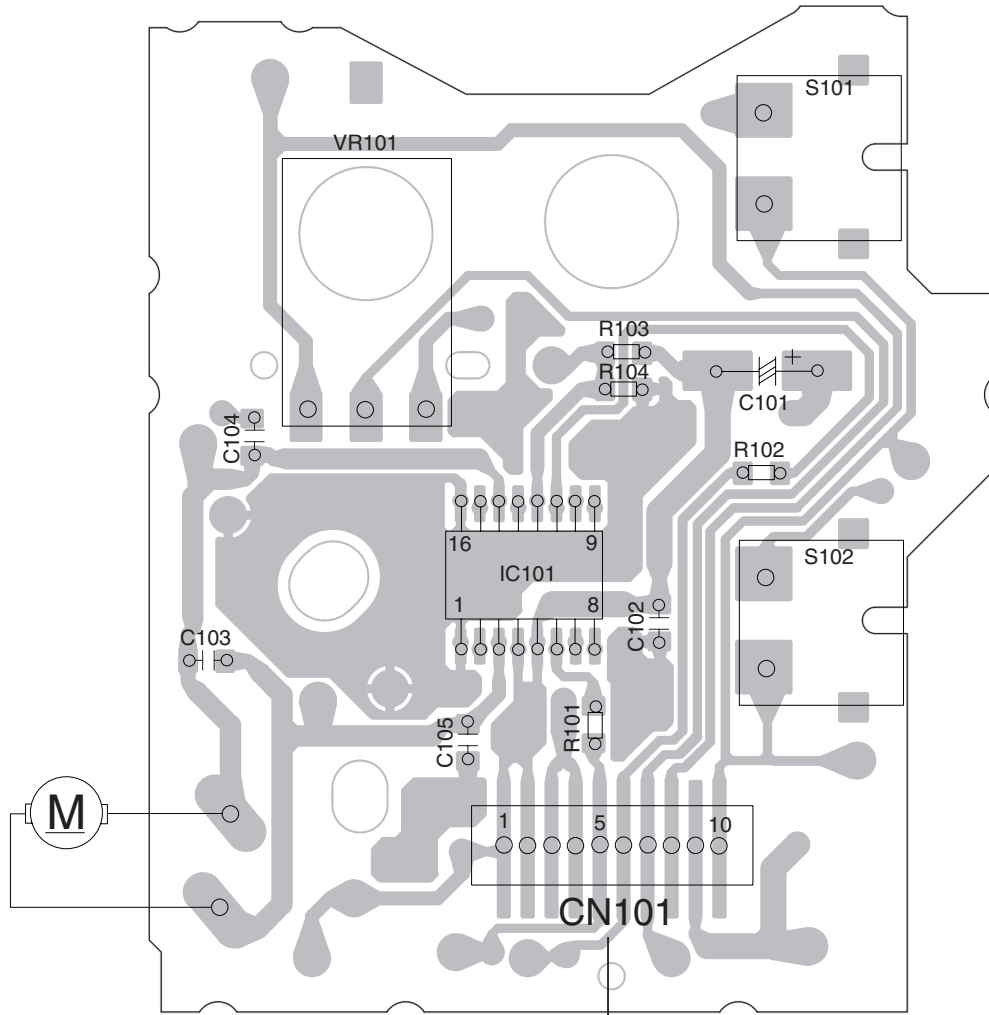
2

3

4

A PCB UNIT(SERVICE)

SIDE A



B CN491

D

E

F

1

2

3

4

I PCB UNIT(SERVICE)

SIDE B

A

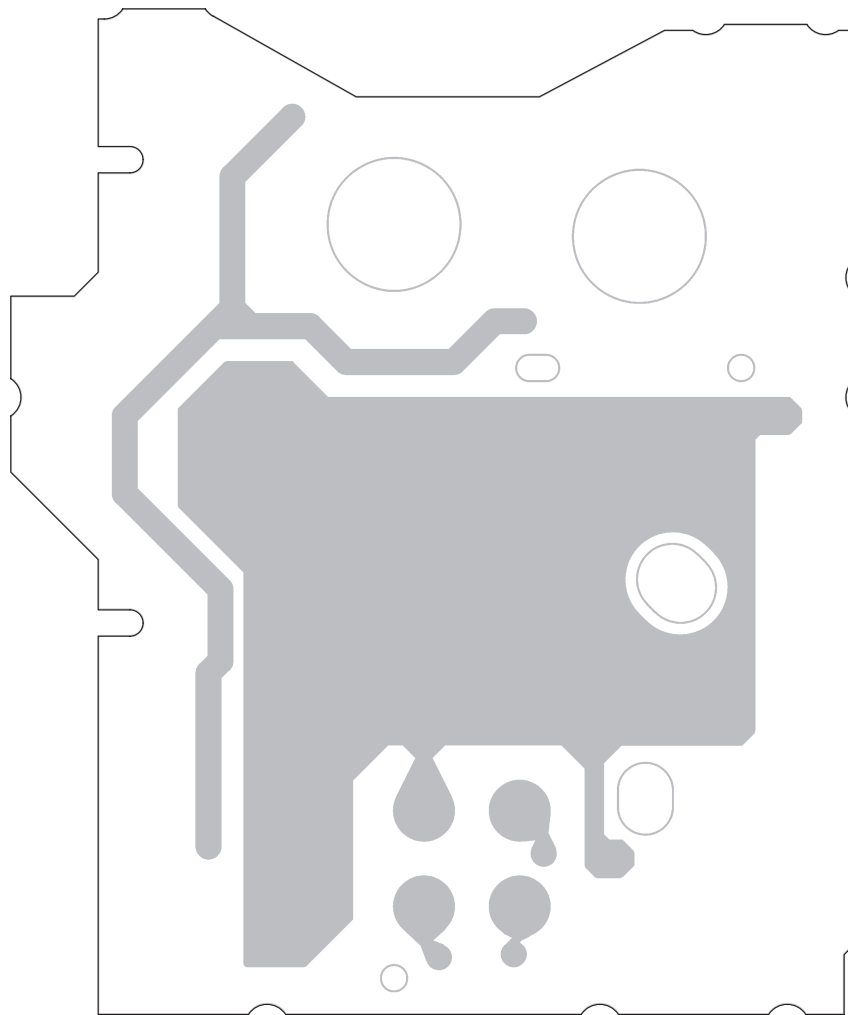
B

C

D

E

F



12. ELECTRICAL PARTS LIST

NOTE:

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

Chip Resistor

RS1/○S○○○○J,RS1/○○S○○○○J

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

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

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

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

IC 301 (A, 91, 111) IC NJM2068V

<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
-------------------------------	-----------------	-------------------------------	-----------------

Unit Number: CWN4335(UC)

IC 2051	(B,61,82) IC	BD3931FP
IC 2056	(B,67,78) IC	S-1200B33-M5
IC 2121	(A,11,99) IC	NJM2388F84
IC 2131	(A,11,76) IC	NJM2388F84
IC 2151	(A,92,15) IC	LT3505EDD

Unit Number: CWN4336(AU)

Unit Name : Audio Unit

Unit Number: CWN4824(UC)

IC 2161	(A,84,42) Regulator IC	BD9781HFP
IC 2181	(A,97,30) IC	LT3461AES6
IC 2182	(A,112,39) IC	S-812C56AUA-C3K
IC 2190	(B,136,32) IC	S-812C56AUA-C3K
IC 2216	(B,36,109) IC	TPD1018F

Unit Number: CWN4339(AU)

Unit Name : Tuner IF Unit

Unit Number: CXX2608(UC)

IC 2300	(A,86,134) IC	PA2030A
IC 2302	(A,41,35) IC	S-93C56BD01-I8
IC 2303	(B,54,49) IC(UC)	PEG554A8
	(B,54,49) IC(AU)	PEG555A8
IC 2304	(A,59,51) IC	BD5229FVE
IC 2491	(A,9,42) IC	NJM2904M

Unit Number: CXX2607(AU)

Unit Name : Service CC Assy

Unit Number: CWN3985

Unit Name : Navi Unit

IC 2511	(A,21,111) IC	TC7WH126FU
IC 2512	(A,22,118) IC	TPD1018F
IC 2513	(B,19,118) L-MOS And Gate(UC)	TC7SET08FUS1
IC 2530	(A,36,44) IC	TC74VHCT541AFTS1
IC 2531	(A,50,49) Logic IC	TC74VHCT32AFT

Unit Number: CWN3935

Unit Name : Monitor Unit

Unit Number: CWN3988

Unit Name : Keyboard Unit

IC 2611	(A,97,70) IC	BA4558RFVM
IC 2621	(A,105,70) IC	NJM2125F
IC 2625	(B,95,63) IC	BA4558RFVM
IC 2641	(B,135,88) IC	NJM2747V
IC 2661	(B,127,52) IC	AN15887A

Unit Number: EXX1060

Unit Name : PCB Unit(Service)

Unit Number: YWX5009

IC 2771	(B,110,80) IC	PML017A
IC 2889	(A,138,16) IC	NJM4580V
Q 2031	(B,35,83) Transistor	2SC4081
Q 2032	(B,38,86) Transistor	2SC4081
Q 2041	(A,46,117) Transistor	2SC4116

Unit Name : DVD Core Unit

Unit Number:

Unit Name : Connect PCB

Q 2046	(B,10,127) Chip Transistor	DTC114EUA
Q 2061	(A,19,39) Transistor	2SA1577
Q 2062	(A,21,39) Chip Transistor	DTC114EUA
Q 2066	(B,11,32) Transistor	2SA1577
Q 2067	(B,12,27) Chip Transistor	DTC114EUA

Unit Number: CWN4335(UC)

Unit Number: CWN4336(AU)

Unit Name : Audio Unit

Q 2071	(A,28,36) Transistor	2SA1577
Q 2072	(A,31,36) Chip Transistor	DTC114EUA
Q 2101	(B,118,28) Chip Transistor	UMF21N
Q 2181	(B,90,36) Transistor	UMD3N
Q 2182	(B,89,29) Transistor	2SD1767

MISCELLANEOUS

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 2226	(A,25,47) Transistor	2SC4116		D 2432	(A,55,56) Diode	RB501V-40	
Q 2231	(B,69,32) Transistor	2SA1576A		D 2433	(A,52,58) Diode	RB751S-40	
Q 2242	(A,74,95) Transistor	UMD3N		D 2491	(A,13,49) Diode	1SS352	
Q 2276	(A,35,68) Chip Transistor	DTC114EUA		D 2519	(B,30,126) Diode	UDZS18(B)	A
Q 2281	(B,83,121) Chip Transistor	DTC114EUA		D 2520	(B,33,126) Diode	UDZS18(B)	
Q 2302	(A,58,46) Transistor	UMD3N		D 2521	(A,22,129) Diode	1SR154-400	
Q 2303	(A,37,30) Transistor	2SA1576A		D 2522	(A,17,128) Diode	1SR154-400	
Q 2491	(A,11,35) Transistor	DTC114WK		D 2527	(B,26,121) Diode	UDZS18(B)	
Q 2492	(A,15,43) Chip Transistor	DTC114EUA		D 2531	(A,62,98) Diode	UDZS8R2(B)	
Q 2505	(A,74,57) Transistor(UC)	UMH1N		D 2552	(A,137,7) Diode	DAP202U	
Q 2506	(A,76,60) Transistor(UC)	UMH1N		D 2621	(A,99,61) Diode	EDZ4R3(B)	
Q 2512	(B,23,126) Transistor	2SA1576A		D 2622	(A,102,67) Diode	1SS352	
Q 2513	(B,23,118) Digital Transistor	DTC144EUA		D 2641	(B,145,88) Diode	HZU6R8(B1)	
Q 2514	(B,22,121) Digital Transistor	DTC144EUA		D 2643	(B,144,71) Diode	RB715Z	
Q 2515	(B,22,116) Chip Transistor(UC)	DTC114EUA		D 2644	(B,145,74) Diode	RB715Z	B
Q 2531	(A,61,90) Transistor	2SC4081		D 2761	(A,142,67) Diode	DAP202U	
Q 2551	(A,141,6) Transistor	IMH23		D 2762	(A,140,60) Diode	DAP202U	
Q 2552	(A,133,7) Transistor	UMD3N		D 2841	(B,109,101) Diode	DAP202U	
Q 2641	(B,142,74) Transistor	UMD3N		D 2862	(A,133,116) Diode	MALS180X	
Q 2642	(B,142,80) Transistor	UMD3N		D 2865	(A,136,116) Diode	MALS180X	
Q 2643	(B,139,75) Transistor	DTC323TU		D 2867	(A,128,116) Diode	MALS180X	
Q 2644	(B,139,79) Transistor	DTC323TU		D 2868	(A,131,116) Diode	MALS180X	
Q 2731	(A,122,69) Transistor	2SC4081		D 2869	(A,130,116) Diode	MALS180X	
Q 2732	(A,122,64) Transistor	2SA1576A		D 2870	(B,104,118) Diode	UDZS18(B)	
Q 2761	(B,142,69) Transistor	FMG12		D 2871	(B,117,139) Diode	UDZS18(B)	
Q 2762	(A,136,59) Transistor	UMD3N		D 2872	(B,109,114) Diode	1SS352	C
Q 2831	(B,116,100) Transistor	FMG12		D 2873	(B,117,115) Diode	PTZ27(B)	
Q 2841	(A,122,95) Transistor	FMG12		D 2874	(B,121,139) Diode	UDZS18(B)	
Q 2842	(A,109,97) Transistor	FMG12		D 2880	(B,8,124) Diode	MALS180X	
D 2001	(A,34,108) Diode	ST70-27F		D 2881	(B,6,124) Diode	MALS180X	
D 2026	(B,73,90) Diode	KS926S2		L 2001	(A,53,108) Choke Coil 600 uH	CTH1347	
D 2027	(B,78,84) Diode	RB160M-30		L 2151	(A,90,20) Inductor	CTF1744	
D 2028	(B,68,89) Diode	1SR154-400		L 2152	(A,99,17) Inductor	BTH1112	
D 2029	(B,47,77) Diode	RB500V-40		L 2161	(A,84,16) Inductor	CTH1257	
D 2031	(B,42,81) Diode	RB500V-40		L 2162	(A,98,38) Inductor	CTH1254	
D 2032	(B,40,81) Diode	HZU7R5(B3)		L 2181	(A,88,27) Inductor	CTF1473	D
D 2033	(B,49,77) Diode	RB500V-40		L 2182	(A,90,32) Choke Coil 22 uH	CTH1426	
D 2034	(B,45,78) Diode	EDZ20(B)		L 2183	(A,103,32) Inductor	CTF1389	
D 2041	(A,52,121) Diode	1SR154-400		L 2226	(B,53,136) Inductor	CTF1410	
D 2042	(A,52,116) Diode	HZU8R2(B1)		L 2236	(B,61,136) Inductor	CTF1410	
D 2046	(B,18,128) Diode	1SR154-400		L 2239	(B,113,111) Inductor	CTF1556	
D 2151	(A,94,20) Diode	RB160M-40		L 2302	(A,46,69) Inductor	LCTAW2R2J2520	
D 2152	(A,95,13) Diode	1SS352		L 2303	(A,41,31) Inductor	CTF1306	
D 2160	(A,65,21) Diode	RB051LA-40		L 2311	(A,65,55) Inductor	CTF1305	
D 2162	(A,93,47) Diode	RB050L-40		L 2331	(A,69,46) Inductor	CTF1305	
D 2181	(B,90,34) Diode	HZU9R1(B2)		L 2351	(A,64,37) Inductor	CTF1305	
D 2216	(B,30,109) Diode	1SR154-400		L 2371	(A,56,35) Inductor	CTF1305	E
D 2217	(B,27,109) Diode	1SR154-400		L 2411	(A,43,57) Inductor	CTF1305	
D 2227	(B,59,139) Diode	UDZS18(B)		L 2421	(A,41,57) Inductor	CTF1305	
D 2228	(A,21,47) Diode	UDZS5R6(B)		L 2461	(A,63,69) Inductor	CTF1305	
D 2229	(A,28,46) Diode	RB715W		L 2491	(A,15,36) Inductor	CTF1334	
D 2231	(A,61,116) Diode	PTZ18A		L 2492	(A,14,40) Inductor	CTF1334	
D 2232	(B,65,29) Diode	1SS352		L 2511	(A,18,114) Inductor	CTF1410	
D 2236	(B,67,118) Diode	1SR154-400		L 2530	(A,37,37) Inductor	CTF1410	
D 2237	(B,65,114) Diode	MALS180X		L 2531	(A,54,46) Inductor	CTF1410	
D 2239	(B,120,115) Diode	PTZ27(B)		L 2553	(B,110,15) Inductor	CTF1488	
D 2240	(B,111,107) Diode	1SS355		L 2554	(B,112,19) Inductor	CTF1410	
D 2241	(A,67,98) Diode	1SS352		L 2571	(B,17,35) Inductor	CTF1306	F
D 2296	(B,144,103) Diode	1SR154-400		L 2622	(A,94,63) Inductor	CTF1410	
D 2297	(B,144,108) Diode	1SR154-400		L 2641	(A,143,98) Inductor	CTF1410	

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

L 2661 (A,133,51) Chip Coil LCTAW100J2520
 L 2662 (A,119,43) Chip Coil LCTAW100J2520
 L 2731 (A,127,61) Inductor CTF1473
 L 2771 (A,109,78) Inductor LCTAW2R2J2520
 L 2861 (B,111,114) Inductor LCTC2R2K1608

R 2063 (A,19,36)
 R 2066 (B,11,30)
 R 2067 (B,10,27)
 R 2068 (B,9,33)
 R 2071 (A,28,38)

RS1/16SS683J
 RS1/16SS472J
 RS1/16SS472J
 RS1/16SS104J
 RS1/16SS222J

L 2880 (A,6,120) Inductor CTF1334
 L 2881 (A,11,122) Inductor CTF1334
 L 2889 (A,134,19) Inductor CTF1410
 X 2301 (B,58,66) Oscillator 15 000 kHz CSS1781
 F 2161 (A,71,18) EMI Filter CCG1267

R 2072 (A,30,34)
 R 2073 (A,31,33)
 R 2075 (A,137,9)
 R 2083 (A,137,109)
 R 2084 (A,135,26)

RS1/16SS222J
 RS1/16SS473J
 RS1/16SS0R0J
 RS1/10SR0R0J
 RS1/10SR0R0J

F 2861 (B,133,114) EMI Filter CCG1082
 F 2867 (B,137,114) EMI Filter CCG1082
 F 2868 (B,126,114) EMI Filter CCG1082
 F 2873 (B,131,114) EMI Filter CCG1067
 F 2874 (B,129,114) EMI Filter CCG1067

R 2085 (B,33,30)
 R 2101 (A,125,28)
 R 2102 (A,113,49)
 R 2104 (A,133,29)
 R 2105 (B,122,27)

RS1/16SS0R0J
 RS1/16SS102J
 RS1/16SS102J
 RS1/16SS0R0J
 RS1/16SS473J

VR2731 (A,115,68) Semi-fixed 1 kohm(B) CCP1442

△P2107 (A,37,23) Fuse 250 mA CEK1276
 △P2151 (A,8,65) Fuse 1 A CEK1254
 △P2161 (A,39,91) Fuse 3.15 A CEK1259
 △P2162 (A,118,23) Fuse 1.5 A CEK1282

R 2106 (B,120,27)
 R 2121 (B,17,106)
 R 2125 (B,18,99)
 R 2128 (B,17,110)
 R 2131 (B,16,89)

RS1/16SS102J
 RS1/16SS473J
 RS1/8SQ0R0J
 RS1/16SS332J
 RS1/16SS473J

△P2176 (A,110,26) Fuse 0.5 A CEK1278

P 2861 (B,123,133) Poly Switch MINISMDC075F/24
 P 2862 (B,140,138) Poly Switch MINISMDC075F/24
 P 2863 (B,129,136) Poly Switch MINISMDC075F/24
 P 2864 (B,134,136) Poly Switch MINISMDC075F/24

R 2136 (B,16,91)
 R 2151 (B,96,12)
 R 2152 (B,92,13)
 R 2153 (B,97,14)
 R 2154 (B,95,14)

RS1/16SS332J
 RS1/16SS223J
 RS1/16SS2002D
 RS1/16SS0R0J
 RS1/10SR1303D

P 2880 (A,18,135) Poly Switch MINISMDC075F/24
 VA2861 (B,126,131) Varistor AVR-M1608C270KT2AB
 VA2862 (B,129,131) Varistor AVR-M1608C270KT2AB
 VA2863 (B,123,115) Varistor AVR-M1608C270KT2AB
 VA2864 (B,125,115) Varistor AVR-M1608C270KT2AB

R 2155 (B,92,14)
 R 2157 (B,89,16)
 R 2161 (B,88,41)
 R 2162 (B,88,43)
 R 2163 (B,94,44)

RS1/16SS2402D
 RS1/16SS0R0J
 RS1/10SR1003D
 RS1/10SR1002D
 RS1/10SR104J

CN2101 (A,133,34) Connector CKS5546
 CN2512 (A,30,142) Connector CKS6155
 CN2551 (B,128,7) Terminal VKN1620
 CN2571 (B,25,52) Connector CKS6124
 CN2861 (A,128,138) Plug CKM1567

R 2164 (B,97,45)
 R 2165 (B,97,47)
 R 2166 (B,94,47)
 R 2167 (B,91,46)
 R 2168 (B,94,46)

RS1/10SR0R0J
 RS1/10SR6802D
 RS1/10SR3001D
 RS1/10SR1002D
 RS1/10SR103J

D JA2001 (A,54,135) Plug CKM1550
 JA2880 (A,11,131) Jack CKN1042
 U 2511 (A,6,57) Remote IC(AU) RS-750

R 2169 (A,103,45)
 R 2171 (A,74,19)
 R 2181 (B,87,31)
 R 2182 (B,98,31)
 R 2183 (B,97,31)

RS1/8SQR30J
 RS1/10SR105J
 RS1/16SS122J
 RS1/16SS1003D
 RS1/16SS1603D

RESISTORS

R 2021 (B,62,94) RS1/4S4R7J
 R 2022 (B,59,94) RS1/4S4R7J
 R 2023 (B,65,89) RS1/10SR473J
 R 2026 (B,79,88) RS1/4S4R7J
 R 2027 (B,79,94) RS1/4S4R7J

R 2184 (B,99,29)
 R 2185 (B,95,31)
 R 2186 (B,95,29)
 R 2187 (B,100,30)
 R 2188 (A,109,42)

RS1/16SS0R0J
 RS1/16SS1202D
 RS1/16SS1102D
 RS1/10SR473J
 RS1/16SS5601D

R 2028 (B,74,84) RS1/10SR473J
 R 2031 (B,38,83) RS1/10SR473J
 R 2032 (B,36,81) RS1/10SR473J
 R 2033 (B,42,78) RS1/10SR103J
 R 2034 (B,40,88) RS1/10SR103J

R 2189 (A,108,40)
 R 2190 (B,138,29)
 R 2191 (B,138,28)
 R 2193 (B,135,28)
 R 2226 (B,56,135) 1 kohm

RS1/16SS6801D
 RS1/16SS5601D
 RS1/10SR6201D
 RS1/10SR1801D
 CCN1179

R 2041 (B,47,138) 4.7 kohm CCN1180
 R 2042 (B,47,140) 1 kohm CCN1179
 R 2043 (A,50,117) RS1/10SR473J
 R 2044 (A,48,117) RS1/10SR473J
 R 2046 (B,51,139) 1 kohm CCN1179

R 2227 (B,56,139)
 R 2228 (B,56,140)
 R 2229 (A,23,47)
 R 2230 (A,23,46)
 R 2231 (A,58,120) 10 kohm

RS1/10SR472J
 RS1/10SR102J
 RS1/16SS104J
 RS1/16SS473J
 CCN1191

R 2047 (B,16,125) 4.7 kohm CCN1180
 F R 2048 (B,13,127) RS1/10SR103J
 R 2056 (B,69,81) RS1/16SS472J
 R 2061 (A,19,41) RS1/16SS472J
 R 2062 (A,20,37) RS1/16SS472J

R 2232 (B,70,34)
 R 2233 (B,68,34)
 R 2234 (B,66,34)
 R 2239 (B,112,107)
 R 2241 (A,71,97)

RS1/16SS153J
 RS1/16SS103J
 RS1/16SS102J
 RS1/8SQ103J
 RS1/16SS391J

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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 2242	(A,71,95)	RS1/16SS391J		R 2379	(A,47,41)	RS1/16SS102J	
R 2243	(A,72,94)	RS1/16SS102J		R 2381	(B,42,31)	RS1/16SS151J	
R 2251	(B,88,49)	RS1/10SR102J		R 2382	(B,42,33)	RS1/16SS151J	A
R 2269	(B,25,21)	RS1/10SR0R0J		R 2384	(B,47,36)	RS1/16SS221J	
R 2274	(B,32,25)	RS1/10SR0R0J		R 2385	(B,46,36)	RS1/16SS221J	
R 2276	(A,38,71)	RS1/16SS103J		R 2386	(A,46,36)	RS1/16SS681J	
R 2277	(A,38,69)	RS1/16SS103J		R 2387	(B,40,36)	RS1/16SS102J	
R 2281	(B,89,121)	RS1/10SR103J		R 2388	(B,36,35)	RS1/16SS221J	
R 2282	(B,89,123)	RS1/10SR103J		R 2390	(B,38,35)	RS1/16SS104J	
R 2283	(B,76,121)	RS1/16SS0R0J		R 2391	(B,45,34)	RS1/16SS104J	
R 2301	(A,57,52)	RS1/16SS104J		R 2392	(B,45,35)	RS1/16SS104J	
R 2304	(A,43,38)	RS1/16SS473J		R 2394	(B,40,37)	RS1/16SS102J	
R 2305	(A,39,36)	RS1/16SS473J		R 2395	(B,41,39)	RS1/16SS102J	
R 2306	(A,39,33)	RS1/16SS0R0J		R 2396	(B,40,40)	RS1/16SS102J	B
R 2310	(B,53,65)	RS1/16SS102J		R 2397	(B,40,41)	RS1/16SS102J	
R 2311	(A,68,50)	RS1/16SS104J		R 2398	(B,40,42)	RS1/16SS471J	
R 2312	(B,71,49)	RS1/16SS472J		R 2401	(B,39,45)	RS1/16SS681J	
R 2313	(B,70,51)	RS1/16SS472J		R 2403	(B,34,41)	RS1/16SS681J	
R 2314	(A,68,55)	RS1/16SS473J		R 2404	(B,37,48)	RS1/16SS104J	
R 2315	(B,65,60)	RS1/16SS471J		R 2405	(B,35,48)	RS1/10SR104J	
R 2316	(B,67,59)	RS1/16SS471J		R 2406	(B,37,49)	RS1/16SS104J	
R 2317	(B,71,57)	RS1/16SS681J		R 2407	(B,35,50)	RS1/16SS221J	
R 2320	(B,69,57)	RS1/16SS0R0J		R 2409	(B,38,51)	RS1/16SS0R0J	
R 2321	(B,69,56)	RS1/16SS0R0J		R 2410	(B,40,52)	RS1/16SS0R0J	
R 2326	(A,61,50)	RS1/16SS0R0J		R 2411	(B,40,50)	RS1/16SS681J	C
R 2327	(B,69,52)	RS1/16SS471J		R 2413	(A,44,53)	RS1/16SS681J	
R 2328	(B,67,52)	RS1/16SS681J		R 2414	(A,42,52)	RS1/16SS681J	
R 2329	(B,67,51)	RS1/16SS101J		R 2415	(A,46,50)	RS1/16SS104J	
R 2331	(B,69,50)	RS1/16SS221J		R 2416	(A,54,56)	RS1/16SS0R0J	
R 2332	(A,62,48)	RS1/16SS102J		R 2417	(A,58,58)	RS1/16SS102J	
R 2334	(B,67,49)	RS1/16SS0R0J		R 2418	(A,50,56)	RS1/16SS0R0J	
R 2336	(B,69,45)	RS1/16SS102J		R 2419	(A,50,57)	RS1/16SS102J	
R 2337	(B,67,43)	RS1/16SS102J		R 2420	(B,38,62)	RS1/16SS681J	
R 2339	(A,61,43)	RS1/16SS0R0J		R 2421	(B,37,62)	RS1/16SS681J	
R 2341	(B,67,41)	RS1/16SS681J		R 2423	(B,39,59)	RS1/16SS470J	
R 2342	(A,62,40)	RS1/16SS0R0J		R 2424	(B,38,45)	RS1/16SS473J	D
R 2343	(B,67,40)	RS1/16SS0R0J		R 2427	(A,39,61)	RS1/10SR392J	
R 2344	(B,67,39)	RS1/16SS471J		R 2428	(A,37,61)	RS1/10SR392J	
R 2345	(B,66,36)	RS1/16SS0R0J		R 2429	(A,44,54)	RS1/16SS104J	
R 2348	(B,69,37)	RS1/16SS473J		R 2431	(B,36,60)	RS1/16SS182J	
R 2351	(B,60,34)	RS1/16SS104J		R 2432	(A,53,56)	RS1/16SS103J	
R 2353	(B,65,36)	RS1/16SS0R0J		R 2433	(A,52,56)	RS1/16SS103J	
R 2355	(B,62,34)	RS1/16SS102J		R 2435	(B,36,63)	RS1/16SS182J	
R 2356	(B,60,36)	RS1/16SS102J		R 2436	(B,39,62)	RS1/16SS470J	
R 2357	(A,59,38)	RS1/16SS221J		R 2437	(B,43,60)	RS1/16SS473J	
R 2358	(B,59,36)	RS1/16SS0R0J		R 2438	(B,43,62)	RS1/16SS0R0J	E
R 2359	(A,34,34)	RS1/10SR472J		R 2439	(B,43,63)	RS1/16SS102J	
R 2360	(A,34,30)	RS1/10SR473J		R 2441	(B,44,64)	RS1/16SS0R0J	
R 2365	(B,56,34)	RS1/16SS473J		R 2442	(B,45,63)	RS1/16SS0R0J	
R 2366	(B,55,34)	RS1/16SS473J		R 2443	(B,46,64)	RS1/16SS0R0J	
R 2367	(A,53,37)	RS1/16SS104J		R 2444	(A,40,61)	RS1/16SS473J	
R 2368	(B,53,33)	RS1/16SS221J		R 2445	(B,47,63)	RS1/16SS0R0J	
R 2369	(B,54,35)	RS1/16SS104J		R 2446	(B,48,63)	RS1/16SS471J	
R 2371	(A,53,38)	RS1/16SS0R0J		R 2451	(B,43,66)	RS1/16SS104J	
R 2372	(B,52,33)	RS1/16SS221J		R 2452	(B,44,69)	RS1/16SS472J	
R 2373	(A,55,40)	RS1/10SR0R0J		R 2453	(B,52,63)	RS1/16SS102J	F
R 2375	(B,51,34)	RS1/16SS681J		R 2454	(B,53,63)	RS1/16SS0R0J	
R 2376	(A,53,40)	RS1/16SS681J		R 2458	(A,52,62)	RS1/16SS473J	
R 2377	(A,50,35)	RS1/16SS681J		R 2460	(B,55,64)	RS1/16SS561J	
R 2378	(A,48,36)	RS1/16SS681J		R 2461	(B,62,65)	RS1/16SS473J	

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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 2463	(A,29,46)	RS1/16SS104J		R 2572	(B,33,58)	RS1/16SS0R0J	
	R 2464	(B,68,64)	RS1/16SS0R0J		R 2573	(B,34,58)	RS1/16SS0R0J	
A	R 2472	(B,63,63)	RS1/16SS0R0J		R 2574	(B,33,46)	RS1/16SS0R0J	
	R 2473	(B,63,62)	RS1/16SS221J		R 2575	(B,33,41)	RS1/16SS0R0J	
	R 2475	(B,67,62)	RS1/16SS0R0J		R 2576	(B,34,53)	RS1/16SS0R0J	
	R 2476	(B,63,65)	RS1/16SS0R0J		R 2577	(B,34,54)	RS1/16SS221J	
	R 2477	(A,44,35)	RS1/16SS104J		R 2578	(B,34,56)	RS1/16SS0R0J	
	R 2491	(A,7,37)	RS1/16SS104J		R 2579	(B,33,55)	RS1/16SS0R0J	
	R 2492	(A,10,37)	RS1/16SS473J		R 2580	(B,34,51)	RS1/16SS0R0J	
	R 2493	(A,12,37)	RS1/16SS563J		R 2581	(B,36,37)	RS1/16SS0R0J	
	R 2494	(A,5,43)	RS1/16SS513J		R 2582	(B,36,36)	RS1/16SS0R0J	
	R 2495	(A,8,48)	RS1/16SS104J		R 2583	(B,36,34)	RS1/16SS0R0J	
	R 2496	(A,10,48)	RS1/16SS513J		R 2584	(B,18,39)	RS1/16SS0R0J	
B	R 2497	(A,11,47)	RS1/16SS513J		R 2585	(B,18,51)	RS1/16SS0R0J	
	R 2498	(A,10,49)	RS1/16SS102J		R 2586	(B,17,49)	RS1/16SS0R0J	
	R 2499	(A,9,49)	RS1/16SS102J		R 2587	(B,37,67)	RS1/10SR0R0J	
	R 2500	(A,11,48)	RS1/16SS564J		R 2589	(B,10,38)	RS1/10SR0R0J	
	R 2501	(A,14,48)	RS1/16SS202J		R 2590	(B,17,46)	RS1/16SS0R0J	
	R 2502	(A,15,48)	RS1/16SS822J		R 2591	(B,34,57)	RS1/16SS0R0J	
	R 2503	(A,14,47)	RS1/16SS203J		R 2613	(A,94,64)	RS1/10SR473J	
	R 2504	(A,16,47)	RS1/16SS333J		R 2614	(A,95,76)	RS1/10SR473J	
	R 2507	(A,71,58) (UC)	RS1/10SR223J		R 2615	(A,93,68)	RS1/10SR473J	
	R 2508	(A,74,58) (UC)	RS1/16SS223J		R 2616	(A,93,72)	RS1/10SR473J	
	R 2509	(A,72,61) (UC)	RS1/10SR223J		R 2617	(A,93,67)	RS1/10SR473J	
C	R 2511	(A,18,108)	RS1/10SR105J		R 2618	(A,93,73)	RS1/10SR473J	
	R 2513	(B,25,125)	RS1/10SR473J		R 2619	(A,97,64)	RS1/10SR473J	
	R 2514	(B,24,128)	RS1/10SR473J		R 2620	(A,97,76)	RS1/10SR473J	
	R 2520	(A,29,131)	RS1/8SQ102J		R 2621	(A,97,62)	RS1/16SS102J	
	R 2521	(A,31,131)	RS1/8SQ102J		R 2628	(B,88,62)	RS1/10SR332J	
	R 2522	(A,33,131)	RS1/8SQ102J		R 2629	(B,90,66)	RS1/10SR332J	
	R 2523	(A,5,50) (AU)	RS1/16SS0R0J		R 2630	(B,89,62)	RS1/10SR103J	
	R 2524	(A,5,49) (AU)	RS1/10SR470J		R 2631	(B,90,65)	RS1/10SR103J	
	R 2527	(A,27,131)	RS1/8SQ102J		R 2632	(B,104,59)	RS1/10SR102J	
	R 2529	(A,41,47)	RS1/16SS104J		R 2633	(B,99,60)	RS1/10SR104J	
	R 2530	(B,71,45)	RS1/16SS104J		R 2634	(B,101,64)	RS1/10SR104J	
D	R 2532	(A,58,43)	RS1/16SS104J		R 2635	(B,103,62)	RS1/10SR683J	
	R 2533	(A,60,92)	RS1/10SR473J		R 2636	(B,101,62)	RS1/10SR473J	
	R 2534	(A,60,41)	RS1/16SS104J		R 2641	(B,130,83)	RS1/10SR473J	
	R 2535	(A,61,44)	RS1/16SS104J		R 2642	(B,138,83)	RS1/10SR473J	
	R 2536	(A,56,51)	RS1/16SS104J		R 2643	(B,132,83)	RS1/10SR683J	
	R 2537	(B,38,42)	RS1/16SS104J		R 2644	(B,136,83)	RS1/10SR683J	
	R 2538	(A,65,92)	RS1/10SR104J		R 2645	(B,132,85)	RS1/10SR473J	
	R 2539	(A,41,42)	RS1/16SS104J		R 2646	(B,138,85)	RS1/10SR473J	
	R 2540	(A,17,116) (UC)	RS1/10SR0R0J		R 2647	(B,129,90)	RS1/10SR473J	
	R 2541	(A,17,118) (AU)	RS1/10SR0R0J		R 2648	(B,141,90)	RS1/10SR473J	
	R 2543	(B,17,113) (UC)	RS1/10SR104J		R 2649	(B,128,86)	RS1/10SR473J	
E	R 2551	(B,141,17)	RS1/10SR182J		R 2650	(B,141,86)	RS1/10SR473J	
	R 2552	(B,143,19)	RS1/10SR104J		R 2652	(B,142,83)	RS1/10SR0R0J	
	R 2553	(B,143,16)	RS1/10SR104J		R 2653	(B,146,93)	RS1/10SR302J	
	R 2554	(B,141,18)	RS1/10SR182J		R 2654	(B,144,93)	RS1/10SR302J	
	R 2555	(A,123,15)	RS1/10SR0R0J		R 2656	(A,143,96)	RS1/10SR0R0J	
	R 2556	(B,136,13)	RS1/16SS0R0J		R 2657	(B,130,76)	RS1/10SR821J	
	R 2557	(B,119,19)	RS1/16SS471J		R 2658	(B,134,74)	RS1/10SR821J	
	R 2558	(B,122,19)	RS1/16SS471J		R 2659	(B,140,74)	RS1/16SS104J	
	R 2559	(A,121,11)	RS1/16SS471J		R 2660	(B,139,78)	RS1/16SS104J	
	R 2560	(B,118,19)	RS1/16SS102J		R 2669	(B,142,58)	RS1/10SR0R0J	
F	R 2561	(B,120,19)	RS1/16SS221J		R 2673	(B,142,62)	RS1/10SR101J	
	R 2562	(B,121,19)	RS1/16SS221J		R 2677	(B,145,50)	RS1/16SS0R0J	
	R 2569	(A,27,65)	RS1/16SS0R0J		R 2678	(B,142,50)	RS1/16SS0R0J	
	R 2570	(A,28,92)	RS1/16SS0R0J		R 2681	(B,145,46)	RS1/10SR0R0J	

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 2682	(B,144,44)	RS1/10SR0R0J		R 2778	(A,122,86)	RS1/10SR472J	
R 2683	(B,142,49)	RS1/16SS101J		R 2779	(A,117,84)	RS1/10SR472J	
R 2684	(B,142,48)	RS1/16SS101J		R 2780	(A,117,85)	RS1/10SR472J	
R 2685	(B,144,46)	RS1/16SS750J		R 2781	(A,117,82)	RS1/10SR472J	A
R 2686	(B,144,42)	RS1/10SR0R0J		R 2782	(A,122,88)	RS1/10SR472J	
R 2688	(B,141,42)	RS1/16SS101J		R 2784	(B,102,76)	RS1/16SS0R0J	
R 2689	(B,141,41)	RS1/16SS0R0J		R 2785	(B,102,77)	RS1/16SS0R0J	
R 2692	(B,140,40)	RS1/10SR0R0J		R 2786	(B,102,78)	RS1/16SS0R0J	
R 2694	(B,143,22)	RS1/8SQ0R0J		R 2787	(B,102,79)	RS1/16SS0R0J	
R 2695	(B,117,34)	RS1/16SS472J		R 2788	(A,109,75)	RS1/10SR0R0J	
R 2696	(B,115,39)	RS1/16SS472J		R 2811	(B,131,93)	RS1/10SR822J	
R 2697	(B,120,35)	RS1/16SS472J		R 2812	(B,139,93)	RS1/10SR822J	
R 2698	(B,115,36)	RS1/16SS472J		R 2813	(B,130,93)	RS1/10SR822J	
R 2699	(B,119,33)	RS1/16SS101J		R 2814	(B,138,93)	RS1/10SR822J	B
R 2700	(B,113,36)	RS1/16SS101J		R 2815	(B,124,82)	RS1/10SR822J	
R 2701	(B,120,33)	RS1/16SS101J		R 2816	(B,124,85)	RS1/10SR822J	
R 2702	(B,111,36)	RS1/16SS101J		R 2817	(B,124,81)	RS1/10SR822J	
R 2703	(B,119,34)	RS1/16SS123J		R 2818	(B,124,86)	RS1/10SR822J	
R 2704	(B,113,35)	RS1/16SS123J		R 2831	(B,119,97)	RS1/10SR390J	
R 2705	(B,113,45)	RS1/16SS102J		R 2832	(B,113,97)	RS1/10SR390J	
R 2706	(B,112,42)	RS1/16SS102J		R 2835	(B,119,98)	RS1/10SR223J	
R 2707	(B,112,43)	RS1/16SS102J		R 2836	(B,113,98)	RS1/10SR223J	
R 2708	(B,112,41)	RS1/16SS102J		R 2841	(A,125,94)	RS1/10SR390J	
R 2709	(B,116,45)	RS1/16SS473J		R 2842	(A,119,94)	RS1/10SR390J	
R 2710	(B,115,42)	RS1/16SS473J		R 2843	(A,112,96)	RS1/10SR390J	C
R 2711	(B,111,56)	RS1/16SS0R0J		R 2844	(A,106,96)	RS1/10SR390J	
R 2712	(B,114,57)	RS1/16SS0R0J		R 2849	(A,125,95)	RS1/10SR223J	
R 2713	(B,112,56)	RS1/16SS0R0J		R 2850	(A,119,95)	RS1/10SR223J	
R 2714	(B,114,56)	RS1/16SS0R0J		R 2851	(A,112,97)	RS1/10SR223J	
R 2717	(B,111,60)	RS1/16SS101J		R 2852	(A,106,97)	RS1/10SR223J	
R 2718	(B,112,65)	RS1/16SS101J		R 2861	(A,127,115)	RS1/8SQ0R0J	
R 2719	(B,111,61)	RS1/16SS223J		R 2862	(A,124,115)	RS1/8SQ0R0J	
R 2720	(B,112,64)	RS1/16SS223J		R 2867	(B,108,117)	RS1/8SQ102J	
R 2721	(B,112,63)	RS1/16SS101J		R 2868	(B,118,135)	RS1/8SQ102J	
R 2722	(B,112,67)	RS1/16SS101J		R 2869	(B,112,114)	RS1/8SQ153J	
R 2723	(B,133,61)	RS1/16SS221J		R 2870	(A,131,104)	RS1/16SS750J	D
R 2724	(B,133,62)	RS1/16SS221J		R 2871	(A,127,104)	RS1/16SS750J	
R 2725	(B,131,62)	RS1/16SS0R0J		R 2873	(A,108,114)	RS1/10SR0R0J	
R 2726	(B,128,62)	RS1/16SS0R0J		R 2874	(B,120,135)	RS1/8SQ102J	
R 2728	(B,129,62)	RS1/16SS0R0J		R 2875	(A,116,115)	RS1/8SQ0R0J	
R 2731	(A,127,67)	RS1/16SS0R0J		R 2876	(A,118,115)	RS1/8SQ0R0J	
R 2733	(A,126,66)	RS1/16SS223J		R 2877	(A,122,115)	RS1/8SQ0R0J	
R 2734	(A,125,67)	RS1/16SS303J		R 2878	(A,120,115)	RS1/8SQ0R0J	
R 2735	(A,120,69)	RS1/10SR681J		R 2879	(A,113,115)	RS1/8SQ0R0J	
R 2736	(A,118,69)	RS1/10SR102J		R 2880	(A,111,115)	RS1/8SQ0R0J	
R 2737	(A,118,66)	RS1/10SR821J		R 2881	(A,96,99)	RS1/10SR0R0J	
R 2738	(A,122,61)	RS1/10SR681J		R 2889	(A,139,9)	RS1/10SR473J	E
R 2740	(A,127,62)	RS1/10SR0R0J		R 2890	(A,139,24)	RS1/10SR473J	
R 2749	(A,142,76)	RS1/10SR0R0J		R 2891	(A,134,11)	RS1/10SR473J	
R 2750	(A,143,76)	RS1/10SR75R0D		R 2892	(A,136,24)	RS1/10SR473J	
R 2761	(B,139,66)	RS1/16SS821J		R 2893	(A,139,10)	RS1/10SR363J	
R 2762	(B,144,66)	RS1/16SS821J		R 2894	(A,139,23)	RS1/10SR363J	
R 2763	(B,139,68)	RS1/16SS223J		R 2895	(A,133,13)	RS1/10SR363J	
R 2764	(B,144,68)	RS1/16SS223J		R 2896	(A,136,23)	RS1/10SR363J	
R 2772	(A,90,81)	RS1/10SR0R0J		R 2993	(A,7,25) (AU)	RS1/16SS332J	
R 2773	(B,111,70)	RS1/10SR102J		R 2995	(A,7,22) (UC)	RS1/16SS333J	
R 2774	(B,111,90)	RS1/10SR102J		R 2996	(A,7,19)	RS1/16SS0R0J	F
R 2775	(B,104,71)	RS1/10SR0R0J					
R 2776	(B,104,89)	RS1/10SR0R0J					
R 2777	(A,122,84)	RS1/10SR472J					

CAPACITORS

	1		2		3		4	
	<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
	C 2001	(A,74,104) 3 300 uF/16 V	CCH1928(P35)	C 2281	(A,95,125)	CKSRYP105K16		
	C 2007	(B,48,121)	CKSRYP392K50	C 2282	(A,89,125)	CKSRYP105K16		
	C 2027	(A,85,92) 10 000 uF/16 V	CCH1849(P35)	C 2283	(A,78,125)	CKSRYP105K16		
A	C 2028	(A,50,91)	CEAT472M16(P35)	C 2284	(A,84,125)	CKSRYP105K16		
	C 2029	(B,74,82)	CKSRYP104K50	C 2285	(A,94,123)	CKSQYB105K16		
	C 2041	(A,53,118)	CKSRYP104K50	C 2286	(A,88,123)	CKSQYB105K16		
	C 2042	(A,53,117)	CKSSYB102K50	C 2287	(A,79,123)	CKSQYB105K16		
	C 2046	(B,17,123)	CKSRYP102K50	C 2288	(A,85,123)	CKSQYB105K16		
	C 2047	(B,12,125)	CKSQYB105K16	C 2289	(B,96,120)	CKSRYP104K50		
	C 2051	(B,60,89)	CKSYB105K35	C 2290	(B,96,121)	CKSRYP104K50		
	C 2052	(B,65,83)	CKSSYB103K16	C 2292	(A,101,125)	CKSQYB475K10		
	C 2053	(A,68,79)	CEVW101M16	C 2293	(A,98,123)	CKSYB475K16		
	C 2056	(B,66,81)	CKSRYP105K16	C 2294	(A,102,118)	CEHVW100M16		
	C 2057	(B,64,75)	CKSRYP105K16	C 2296	(B,147,101)	CKSRYP104K50		
B	C 2058	(A,59,79)	CEVW101M16	C 2297	(B,143,106)	CKSRYP104K50		
	C 2101	(A,143,28)	CKSSYB103K16	C 2302	(A,51,70)	CEVW100M16		
	C 2121	(B,17,102)	CKSRYP104K50	C 2303	(A,48,68)	CKSRYP102K50		
	C 2122	(B,16,106)	CKSSYB223K16	C 2304	(A,41,33)	CKSRYP104K16		
	C 2123	(A,19,102) 100 uF/16 V	CCH1565	C 2305	(A,60,45)	CKSRYP104K16		
	C 2124	(A,15,103)	CKSSYB102K50	C 2306	(A,59,49)	CKSRYP153K50		
	C 2131	(B,17,85)	CKSRYP104K50	C 2307	(A,58,53)	CKSRYP104K16		
	C 2132	(B,15,89)	CKSSYB223K16	C 2308	(A,61,46)	CKSRYP104K16		
	C 2133	(A,16,83)	CKSSYB102K50	C 2311	(B,69,60)	CCSSCH101J50		
	C 2134	(A,19,89) 100 uF/16 V	CCH1565	C 2321	(B,66,57)	CKSRYP103K50		
	C 2151	(A,91,21)	CKSYB225K25	C 2331	(B,67,47)	CKSRYP103K50		
C	C 2153	(B,98,12)	CCSRCH151J50	C 2351	(B,63,36)	CKSRYP103K50		
	C 2154	(A,95,16)	CKSRYP104K16	C 2352	(B,59,34)	CCSSCH101J50		
	C 2155	(B,93,13)	CCSSCH221J50	C 2355	(A,59,37)	CKSSYB103K16		
	C 2156	(A,102,22) 22 uF	CCG1183	C 2374	(B,53,35)	CKSRYP103K50		
	C 2161	(A,83,25) 100 uF/16 V	CCH1565	C 2411	(B,41,52)	CKSRYP103K50		
	C 2162	(A,82,31) 10 uF	CCG1223	C 2412	(A,42,50)	CKSSYB103K16		
	C 2163	(A,82,34) 10 uF	CCG1223	C 2413	(B,51,36)	CKSSYB104K16		
	C 2167	(B,90,42)	CKSSYB104K16	C 2414	(A,47,51)	CKSSYB103K16		
	C 2168	(B,93,44)	CCSRCH102J50	C 2415	(A,44,51)	CKSSYB103K16		
	C 2169	(B,94,42)	CKSRYP104K50	C 2416	(A,50,54)	CKSSYB103K16		
D	C 2170	(A,100,48) 330 uF/10 V	CCH1623	C 2417	(A,46,56)	CKSSYB103K16		
	C 2171	(B,97,46)	CCSRCH331J50	C 2418	(B,39,55)	CKSSYB103K16		
	C 2173	(A,122,24)	CKSYB475K16	C 2419	(A,47,57)	CKSSYB103K16		
	C 2181	(B,86,25)	CKSYB475K25	C 2420	(B,40,56)	CKSRYP105K10		
	C 2182	(B,90,32)	CKSRYP104K16	C 2424	(B,40,57)	CKSRYP103K50		
	C 2183	(A,90,26)	CKSRYP104K16	C 2430	(B,35,59)	CCSSCH470J50		
	C 2184	(A,91,28)	CKSYB475K16	C 2431	(A,57,55)	CKSSYB104K16		
	C 2185	(B,97,30)	CCSRCH220J50	C 2432	(A,51,56)	CKSSYB104K16		
	C 2186	(A,98,28)	CKSSYB473K10	C 2434	(B,44,66)	CCSSCH331J50		
	C 2187	(A,101,29)	CKSQYB105K25	C 2435	(B,39,64)	CCSSCH470J50		
	C 2188	(A,108,39)	CKSSYB103K25	C 2436	(A,42,66)	CCSSCH151J50		
E	C 2189	(A,108,42)	CKSSYB103K25	C 2437	(B,43,65)	CCSSCH471J16		
	C 2191	(B,132,31)	CKSQYB105K25	C 2438	(A,48,66)	CKSSYB103K16		
	C 2192	(B,136,29)	CKSSYB103K25	C 2450	(B,48,67)	CKSQYB475K10		
	C 2193	(B,140,34)	CKSSYB103K25	C 2459	(B,53,68)	CKSRYP104K16		
	C 2194	(B,103,32)	CKSSYB103K25	C 2460	(B,57,64)	CCSSCH100D50		
	C 2195	(B,108,30)	CKSSYB103K25	C 2461	(B,59,64)	CCSSCH100D50		
	C 2216	(B,32,111)	CKSRYP102K50	C 2462	(B,56,62)	CKSRYP103K50		
	C 2217	(B,40,111)	CKSRYP104K50	C 2464	(A,57,60)	CKSRYP105K10		
	C 2226	(B,53,139)	CKSRYP102K50	C 2471	(B,68,63)	CCSSCH101J50		
	C 2227	(B,58,140)	CKSSYB102K50	C 2491	(A,12,40)	CKSRYP104K16		
F	C 2232	(A,60,118)	CKSRYP103K50	C 2492	(A,8,47)	CKSSYB102K50		
	C 2238	(B,113,110)	CKSRYP103K50	C 2493	(A,13,45)	CKSRYP104K16		
	C 2241	(A,70,89)	CEVW470M25	C 2494	(A,15,45)	CKSRYP103K50		
	C 2276	(A,41,76)	CEHVW330M16	C 2495	(A,13,43)	CKSRYP823K16		

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 2510	(A,21,127)	CKSRYB102K50		C 2667	(B,140,58)	CKSRYB105K10	
C 2511	(A,18,110)	CKSRYB104K16		C 2668	(B,139,55)	CKSRYB105K10	
C 2512	(A,21,126)	CKSSYB103K25		C 2671	(B,139,50)	CKSRYB105K10	
C 2513	(B,28,126)	CKSRYB103K50		C 2672	(B,139,49)	CKSSYB105K10	
C 2516	(A,5,51) (AU)	CKSRYB104K50		C 2673	(B,139,48)	CKSRYB105K10	
C 2517	(B,20,120) (UC)	CKSSYB104K10					
C 2518	(A,18,121)	CKSRYB104K50		C 2674	(B,139,46)	CKSRYB105K10	
C 2527	(B,26,122)	CKSRYB103K50		C 2675	(B,138,43)	CKSRYB105K10	
C 2530	(A,37,39)	CKSRYB104K16		C 2676	(B,138,41)	CKSRYB105K10	
C 2531	(A,54,48)	CKSRYB104K16		C 2679	(B,137,52)	CKSRYB104K16	
C 2551	(B,144,16)	CCSRCH101J50		C 2680	(B,137,54)	CKSSYB104K16	
C 2552	(B,144,19)	CCSRCH101J50		C 2685	(B,125,34)	CKSQYB475K10	
C 2557	(B,115,13)	CKSRYB104K16		C 2686	(B,113,38)	CKSQYB475K10	
C 2558	(B,118,13)	CKSRYB104K16		C 2687	(B,123,34)	CKSQYB475K10	
C 2559	(B,119,15)	CKSQYB475K10		C 2688	(B,111,38)	CKSSYB104K16	
C 2561	(B,115,19)	CKSRYB104K16		C 2689	(B,114,46)	CKSQYB475K10	
C 2563	(B,114,17) 10 uF	CCG1221		C 2690	(B,116,50)	CKSQYB475K10	
C 2564	(B,115,20) 10 uF	CCG1203		C 2691	(B,116,48)	CKSQYB475K10	
C 2565	(A,113,17)	CEVQW220M16		C 2692	(B,112,50)	CKSQYB475K10	
C 2572	(B,16,35)	CKSRYB104K16		C 2693	(B,111,53)	CKSQYB475K10	
C 2611	(B,86,71) 10 uF	DCH1201		C 2694	(B,113,53)	CKSQYB475K10	
C 2612	(B,91,78) 10 uF	DCH1201		C 2695	(B,116,53)	CKSQYB475K10	
C 2613	(B,88,71) 10 uF	DCH1201		C 2696	(B,116,55)	CKSQYB475K10	
C 2614	(B,89,78) 10 uF	DCH1201		C 2697	(B,115,61)	CKSQYB475K10	
C 2615	(A,94,66)	CCSRCH330J50		C 2698	(B,115,65)	CKSQYB475K10	
C 2616	(A,95,75)	CCSRCH330J50		C 2699	(B,115,63)	CKSQYB475K10	
C 2617	(A,97,66)	CCSRCH330J50		C 2700	(B,115,67)	CKSQYB475K10	
C 2618	(A,97,75)	CCSRCH330J50		C 2701	(A,125,44)	CEVW470M16	
C 2619	(A,99,70)	CKSSYB104K16		C 2702	(B,123,42)	CKSRYB104K16	
C 2621	(A,88,61)	CEVW101M16		C 2703	(B,120,40)	CKSYB226K6R3	
C 2622	(A,100,61)	CKSSYB103K16		C 2705	(B,129,42)	CKSSYB104K16	
C 2623	(A,103,63)	CEVW100M16		C 2706	(B,127,42)	CKSSYB104K16	
C 2624	(A,103,70)	CKSSYB104K16		C 2707	(B,128,42)	CKSSYB104K16	
C 2625	(B,96,70) 10 uF	DCH1201		C 2708	(B,126,42)	CKSSYB104K16	
C 2626	(B,93,70) 10 uF	DCH1201		C 2713	(B,116,32)	CKSRYB102K50	
C 2627	(B,90,64)	CCSRCH221J50		C 2714	(B,116,37)	CKSRYB102K50	
C 2628	(B,90,62)	CCSRCH221J50		C 2715	(B,121,34)	CKSRYB102K50	
C 2629	(B,95,61)	CKSSYB104K16		C 2716	(B,114,33)	CKSRYB102K50	
C 2630	(B,103,59)	CKSRYB103K50		C 2725	(B,102,71)	CKSQYB475K10	
C 2631	(B,103,63)	CKSRYB104K16		C 2726	(B,102,89)	CKSQYB475K10	
C 2632	(B,99,65)	CCSRCH151J50		C 2733	(A,127,71)	CEVW101M4	
C 2633	(B,99,62)	CCSRCH151J50		C 2734	(A,124,62)	CKSRYB105K16	
C 2641	(B,128,79)	CKSQYB475K10		C 2743	(A,136,73)	CEVW101M6R3	
C 2642	(B,134,79)	CKSQYB475K10		C 2744	(A,136,65)	CEVQW221M6R3	
C 2643	(B,130,79)	CKSRYB105K10		C 2761	(B,137,71)	CKSQYB475K10	
C 2644	(B,132,80)	CKSRYB105K10		C 2762	(B,135,71)	CKSQYB475K10	
C 2645	(B,130,85)	CCSSCH220J50		C 2771	(A,104,82)	CEVW470M16	
C 2646	(B,140,85)	CCSSCH220J50		C 2772	(B,102,81)	CKSSYB104K16	
C 2647	(B,130,91)	CCSSCH220J50		C 2774	(B,102,85)	CKSSYB104K16	
C 2648	(B,139,91)	CCSSCH220J50		C 2775	(A,112,86)	CEVW100M16	
C 2649	(B,135,92)	CKSRYB104K50		C 2779	(B,106,71)	CKSRYB105K10	
C 2650	(A,133,98)	CEVW101M25		C 2780	(B,106,89)	CKSRYB105K10	
C 2651	(B,145,83) 10 uF	CCG1195		C 2781	(B,108,71)	CKSSYB104K16	
C 2652	(B,146,88)	CKSRYB103K50		C 2782	(B,108,89)	CKSSYB104K16	
C 2653	(B,105,62)	CKSQYB225K10		C 2785	(B,111,71)	CKSRYB105K10	
C 2661	(A,137,45)	CEVW470M16		C 2786	(B,112,90)	CKSRYB105K10	
C 2662	(B,134,42)	CKSRYB104K16		C 2787	(B,115,71)	CKSQYB475K10	
C 2663	(B,132,41)	CKSYB226K6R3		C 2788	(B,114,90)	CKSQYB475K10	
C 2664	(B,131,43)	CKSSYB104K16		C 2789	(B,118,72)	CKSQYB475K10	
C 2665	(B,137,57)	CKSSYB104K16		C 2790	(B,116,90)	CKSQYB475K10	
C 2666	(B,138,57)	CKSSYB104K16		C 2791	(B,120,72)	CKSQYB475K10	

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

C	2792	(B,118,90)	CKSQYB475K10
C	2799	(A,114,78)	CEVW100M16
C	2800	(B,119,78)	CKSSYB104K16
C	2801	(A,123,79)	CEVW470M16
C	2831	(B,119,95) 10 uF	CCG1182
C	2832	(B,113,95) 10 uF	CCG1182
C	2841	(A,127,92) 10 uF	CCG1182
C	2842	(A,118,92) 10 uF	CCG1182
C	2843	(A,112,94) 10 uF	CCG1182
C	2844	(A,106,94) 10 uF	CCG1182
C	2864	(B,115,115)	CKSRYB102K50
C	2865	(B,120,138)	CKSRYB103K50
C	2874	(A,138,116)	CKSRYB392K50
C	2880	(A,13,122)	CKSSYB102K50
C	2881	(A,6,122)	CKSSYB102K50
C	2889	(A,143,16)	CKSQYB225K10
C	2890	(A,143,19)	CKSQYB225K10
C	2891	(A,144,13)	CKSQYB225K10
C	2892	(A,143,21)	CKSQYB225K10
C	2893	(A,141,11)	CCSRCH330J50
C	2894	(A,139,21)	CCSRCH330J50
C	2895	(A,135,13)	CCSRCH330J50
C	2896	(A,136,21)	CCSRCH330J50
C	2897	(A,135,17)	CKSSYB104K16
C	2965	(A,115,62)	CEVW101M4

R	411	(B,33,42) (UC)	RS1/16SS681J
R	412	(B,33,44) (UC)	RS1/16SS681J
R	415	(A,29,70)	RS1/16SS6800D
R	416	(A,29,68)	RS1/16SS681J
R	417	(A,29,63)	RS1/16SS681J
R	418	(A,29,60)	RS1/16SS0R0J
R	419	(A,29,58)	RS1/16SS681J
R	420	(A,29,55)	RS1/16SS103J
R	421	(B,28,49)	RS1/16SS102J
R	424	(A,13,9)	RS1/10SR101J
R	425	(A,16,10)	RS1/10SR101J
R	426	(A,14,10) (UC)	RS1/16SS104J
R	427	(A,15,12) (UC)	RS1/16SS104J
R	434	(A,29,71)	RS1/16SS1501D
R	461	(A,24,96)	RS1/10SR0R0J
R	492	(A,46,22)	RS1/10SR0R0J
R	493	(A,46,25)	RS1/10SR0R0J
R	494	(A,50,24)	RS1/10SR473J
R	495	(A,49,24)	RS1/10SR473J
R	496	(B,45,22)	RS1/16SS223J
R	497	(B,49,30)	RS1/10SR101J
R	498	(B,48,32)	RS1/10SR181J
R	499	(B,44,26)	RS1/16SS471J
R	500	(B,43,26)	RS1/16SS271J
R	501	(B,49,27)	RS1/16SS332J
R	506	(A,50,39)	RS1/16SS303J
R	511	(B,35,10)	RS1/10SR0R0J
R	512	(A,47,14)	RS1/10SR0R0J
R	514	(B,52,36)	RS1/16SS0R0J
R	516	(B,53,8)	RS1/16SS0R0J
R	520	(A,10,13) (UC)	RS1/16SS472J
R	522	(A,10,10) (AU)	RS1/16SS223J
R	528	(B,31,11)	RS1/10SR0R0J

BUnit Number: **CWN4824(UC)**Unit Number: **CWN4339(AU)**Unit Name : **Tuner IF Unit**MISCELLANEOUS

IC	401	(A,52,52) IC	NJM2885DL1-33
Q	491	(B,41,22) Transistor	2SB1260
Q	492	(B,46,25) Transistor	IMX1
Q	493	(B,43,32) Transistor	UMD3N
D	401	(B,52,42) Diode	1SR154-400
D	402	(B,54,47) Diode	1SR154-400
D	403	(B,50,47) Diode	1SR154-400
D	494	(B,37,22) Diode	RSX201L-30
D	495	(B,40,26) Diode	HZU7R5(B1)
D	496	(B,42,26) Diode	HZU6R2(B1)
L	401	(A,22,100) Inductor	LCTC220K2125
L	402	(B,36,69) Inductor	CTF1607
L	403	(B,34,72) Inductor	CTF1386
L	404	(B,32,48) Inductor	CTF1607
L	405	(A,39,55) Inductor	CTF1607
L	532	(A,32,21) Inductor	CTF1606
P	401	(A,22,106) Surge Protector	CSA30-201N
CN	491	(A,56,34) Connector	CKS6095
CN	511	(A,43,10) Connector	CKS5546
JA	401	(A,14,118) Antenna Jack	CKX1056
		FM/AM Tuner Unit(UC)	CWE2097
		FM/AM Tuner Unit(AU)	CWE2128

RESISTORS

R	401	(A,27,102)	RS1/4SA0R0J
R	410	(B,32,40) (UC)	RS1/16SS681J

CAPACITORS

C	401	(B,47,49)	CKSQYB334K16
C	402	(A,52,46)	CKSSYB103K16
C	403	(A,39,47)	CEVW470M6R3
C	411	(B,36,72)	CKSRYB103K50
C	412	(B,32,72)	CKSRYB104K16
C	418	(B,30,45)	CKSRYB103K50
C	419	(B,28,51)	CKSRYB103K50
C	420	(A,32,44) 100 uF/16 V	CCH1565
C	423	(A,39,61)	CEVW470M6R3
C	425	(B,35,48)	CKSRYB102K50
C	428	(A,13,7)	CKSRYB105K16
C	429	(A,16,8)	CKSRYB105K16
C	431	(A,14,11) (UC)	CKSSYB122K50
C	432	(A,15,13) (UC)	CKSSYB122K50
C	434	(A,20,77)	CCSSCH101J50
C	492	(B,48,27)	CKSSYB153K16
C	493	(A,47,33) 100 uF/16 V	CCH1565
C	494	(B,46,34)	CKSRYB105K10
C	516	(B,70,75)	CKSQYB334K16
C	517	(A,31,18)	CKSRYB103K50
C	519	(A,38,73)	CEVW471M10
C	520	(A,31,32)	CEVW101M16

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Unit Number : CXX2608(UC)
Unit Number : CXX2607(AU)
Unit Name : Service CC Assy

MISCELLANEOUS

IC 4001	(A,46,66)	IC	TT4421
IC 4202	(A,24,44)	IC	BU33TA2WNVX
IC 4203	(A,20,31)	IC	S-80944CNNB-G9E
IC 4204	(B,62,13)	IC	LTC3412AEFE
IC 4205	(B,41,13)	IC	LTC3412AEFE
IC 4206	(A,20,34)	IC	S-80929CNNB-G8Z
IC 4207	(A,20,14)	IC	TC7SH08FUS1
IC 4208	(B,27,66)	IC	BU15TA2WNVX
IC 4209	(A,32,87)	IC	BU25TA2WNVX
IC 4210	(B,39,40)	IC	BU18TA2WNVX
IC 4211	(A,19,43)	IC	BU18TA2WNVX
IC 4212	(A,25,14)	IC	TC7SH08FUS1
IC 4213	(B,50,78)	IC	BU33TA2WNVX
IC 4216	(B,41,23)	IC	S-80830CLNB-B6P
IC 4217	(A,23,26)	IC	S-80835CLNB-B6U
IC 4218	(B,65,20)	IC	S-80844CLNB-B65
IC 4219	(A,42,92)	IC	BD6522F
IC 4220	(B,28,5)	Logic IC	TC7SA34FU
IC 4221	(B,18,59)	Logic IC	TC7SA34FU
IC 4401	(A,70,66)	IC	HY5DU121622DTP-D43
IC 4402	(A,70,38)	IC	HY5DU121622DTP-D43
IC 4403	(A,45,48)	IC	PEH224A8
IC 4404	(B,70,66)	IC	HY5DU121622DTP-D43
IC 4405	(B,70,38)	IC	HY5DU121622DTP-D43
IC 4406	(A,35,41)	IC	CY62147EV30LL45BVA
IC 4407	(A,28,37)	IC	TC7PA53FU
IC 4501	(B,39,87)	IC	PEM002B8
IC 4602	(B,23,43)	IC	TC7SH86FUS1
IC 4621	(B,49,32)	IC	PE9019A
IC 4654	(B,29,52)	IC	WM1616LGEFL
IC 4701	(B,24,20)	IC	341S2162
IC 4711	(A,55,85)	IC	GRF3I-0336B
IC 4713	(B,64,90)	IC	BA2115FVM
IC 4901	(A,25,75)	IC	TC90192XBG
IC 4902	(B,29,33)	IC	DS90C241QVS
IC 4903	(A,27,52)	IC	AK8853VN
Q 4206	(B,36,40)	Chip Transistor	DTC114EUA
Q 4207	(B,57,50)	Chip Transistor	DTC114EUA
Q 4209	(B,39,43)	Transistor	2SA2030
Q 4210	(B,59,43)	Transistor	2SA2030
Q 4211	(B,55,44)	Transistor	2SC4081
Q 4212	(B,59,65)	Chip Transistor	DTC114EUA
Q 4214	(B,59,71)	Chip Transistor	2SB1689
Q 4216	(B,59,61)	Chip Transistor	DTC114EUA
Q 4217	(B,55,65)	Chip Transistor	2SB1689
Q 4218	(B,52,53)	Chip Transistor	2SB1689
Q 4219	(B,21,53)	Chip Transistor	DTC114EUA
Q 4220	(B,22,59)	Transistor	2SA2030
Q 4701	(B,23,26)	Chip Transistor	DTC114TUA
Q 4711	(B,62,82)	Transistor	2SB1132
Q 4901	(A,6,62)	Transistor	2SC4617
Q 4902	(A,20,60)	Transistor	2SA1774
Q 4903	(A,19,86)	Transistor	2SC4617
D 4201	(B,39,18)	Diode	RB521G-30

D 4202	(B,63,6)	Diode	RB521G-30
D 4601	(A,27,33)	Diode	RB520G-30
D 4711	(B,73,93)	Diode	HZU5R6(B3)
D 4712	(B,77,93)	Diode	HZU5R6(B3)
L 4002	(B,55,70)	Inductor	CTF1736
L 4005	(B,42,58)	Inductor	CTF1736
L 4006	(B,51,75)	Inductor	CTF1736
L 4007	(B,41,59)	Inductor	CTF1736
L 4010	(B,35,62)	Inductor	CTF1736
L 4011	(B,46,73)	Inductor	CTF1736
L 4012	(B,46,74)	Inductor	CTF1736
L 4013	(B,46,75)	Inductor	CTF1736
L 4014	(B,55,62)	Inductor	CTF1736
L 4015	(B,49,53)	Inductor	CTF1736
L 4016	(B,44,70)	Inductor	CTF1736
L 4018	(B,40,59)	Inductor	CTF1736
L 4201	(B,4,63)	Inductor	CTF1735
L 4202	(B,18,62)	Choke Coil 160 mA	CTH1319
L 4203	(A,23,16)	Inductor	CTF1736
L 4204	(B,4,51)	Ferrite Bead	CTF1528
L 4205	(B,4,62)	Inductor	CTF1735
L 4206	(B,4,59)	Inductor	CTF1732
L 4207	(B,4,50)	Ferrite Bead	CTF1528
L 4208	(A,36,89)	Inductor	CTF1736
L 4209	(B,18,57)	Inductor	CTF1739
L 4210	(B,4,57)	Inductor	CTF1739
L 4211	(B,4,61)	Inductor	CTF1735
L 4212	(B,4,52)	Inductor	CTF1739
L 4213	(B,18,54)	Inductor	CTF1739
L 4214	(B,4,45)	Ferrite Bead	CTF1528
L 4215	(B,18,52)	Inductor	CTF1739
L 4216	(B,4,48)	Inductor	CTF1739
L 4217	(B,31,5)	Inductor	CTF1736
L 4218	(B,20,50)	Inductor	CTF1732
L 4221	(B,19,57)	Inductor	CTF1736
L 4224	(B,55,13)	Choke Coil 1 uH	CTH1416
L 4225	(B,47,13)	Choke Coil 1 uH	CTH1416
L 4226	(B,20,41)	Inductor	CTF1736
L 4227	(A,19,17)	Inductor	CTF1736
L 4234	(B,21,64)	Inductor	CTF1735
L 4245	(B,4,43)	Inductor	CTF1732
L 4246	(B,18,47)	Inductor	CTF1739
L 4251	(B,18,45)	Inductor	CTF1739
L 4252	(B,18,42)	Inductor	CTF1739
L 4255	(B,18,40)	Inductor	CTF1739
L 4256	(B,18,37)	Inductor	CTF1739
L 4257	(B,20,37)	Inductor	CTF1735
L 4258	(B,20,36)	Inductor	CTF1735
L 4410	(A,52,46)	Inductor	CTF1736
L 4414	(A,25,40)	Inductor	CTF1736
L 4415	(A,27,35)	Inductor	CTF1736
L 4501	(A,36,82)	Inductor	CTF1736
L 4502	(A,40,83)	Inductor	CTF1736
L 4601	(B,21,44)	Inductor	CTF1736
L 4651	(B,44,53)	Inductor	CTF1736
L 4711	(B,65,87)	Inductor	CTF1736
L 4714	(B,53,90)	Inductor	CTF1736
L 4715	(A,62,83)	Inductor	CTF1736
L 4716	(A,62,84)	Inductor	CTF1736
L 4718	(B,73,91)	Inductor	LCYC1R0K2125

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

L 4781	(B,38,49) Inductor	CTF1736	R 4021	(A,31,66)	RS1/16SS103J
L 4782	(B,31,60) Inductor	CTF1736	R 4022	(A,36,67)	RS1/16SS101J
L 4783	(B,50,85) Inductor	CTF1736	R 4024	(A,35,64)	RS1/16SS471J
L 4784	(B,59,38) Inductor	CTF1736	R 4025	(B,42,72)	RS1/16SS103J
L 4785	(A,41,42) Inductor	CTF1736	R 4026	(A,54,47)	RS1/16SS220J
L 4786	(B,38,36) Inductor	CTF1736	R 4027	(A,61,71)	RAB4CQ104J
L 4787	(B,52,79) Inductor	CTF1394	R 4028	(A,57,71)	RAB4CQ104J
L 4788	(B,18,26) Inductor	CTF1736	R 4029	(A,60,77)	RAB4CQ104J
L 4903	(B,24,67) Inductor	CTF1736	R 4030	(B,47,72)	RS1/16SS102J
L 4904	(B,29,92) Inductor	CTF1736	R 4032	(B,48,54)	RS1/16SS0R0J
L 4905	(B,30,68) Inductor	CTF1736	R 4033	(A,55,52)	RS1/16SS220J
L 4907	(B,18,34) Inductor	CTF1731	R 4034	(A,62,9)	RS1/16SS103J
L 4931	(A,37,47) Inductor	CTF1736	R 4035	(A,62,9)	RS1/16SS103J
L 4933	(A,23,62) Inductor	CTF1736	R 4036	(A,62,12)	RS1/16SS103J
L 4934	(B,28,92) Inductor	CTF1736	R 4037	(A,62,13)	RS1/16SS103J
L 4935	(A,11,64) Inductor	CTF1736	R 4038	(A,60,75)	RAB4CQ104J
L 4936	(A,18,50) Inductor	CTF1736	R 4040	(A,62,8)	RS1/16SS103J
L 4937	(B,37,25) Inductor	CTF1736	R 4043	(B,32,61)	RS1/16SS222J
X 4001	(A,33,62) Oscillator 12.000 MHz	CSS1708	R 4044	(B,33,62)	RS1/16SS222J
X 4002	(A,35,68) Oscillator 32.768 kHz	CSS1777	R 4045	(B,60,54)	RS1/16SS222J
X 4652	(B,41,52) Oscillator 24.576 MHz	CWX3635	R 4046	(A,62,10)	RS1/16SS103J
X 4711	(B,56,92) TCXO 16.367 667 MHz	CWX3728	R 4048	(B,17,50)	RS1/16SS222J
X 4901	(A,24,85) Oscillator 42.000 000 MHz	CSS1779	R 4049	(B,4,61)	RS1/16SS222J
X 4902	(A,29,60) Oscillator 24.576 MHz	CSS1699	R 4050	(A,33,59)	RS1/16SS104J
F 4001	(B,54,71) Chip EMI Filter	VTL1171	R 4051	(A,33,58)	RS1/16SS104J
F 4003	(B,50,74) Chip EMI Filter	VTL1171	R 4052	(A,39,79)	RS1/16SS104J
F 4005	(B,34,63) Chip EMI Filter	VTL1171	R 4053	(B,32,79)	RS1/16SS104J
F 4201	(A,7,32) EMI Filter	CCG1162	R 4054	(B,32,78)	RS1/16SS104J
F 4202	(A,8,35) EMI Filter	CCG1162	R 4055	(A,31,58)	RS1/16SS684J
F 4203	(A,4,38) EMI Filter	CCG1162	R 4057	(B,34,71)	RS1/16SS821J
F 4204	(A,19,38) EMI Filter	CCG1162	R 4058	(B,13,65)	RS1/16SS222J
F 4206	(B,47,47) EMI Filter	CCG1162	R 4059	(B,41,66)	RS1/16SS153J
F 4409	(A,27,39) Chip EMI Filter	DTL1106	R 4060	(A,34,75)	RS1/16SS222J
F 4651	(B,44,51) Chip EMI Filter	DTL1106	R 4061	(B,4,64)	RS1/16SS104J
F 4711	(A,59,91) Filter	CTF1706	R 4062	(A,34,74)	RS1/16SS222J
F 4901	(B,31,71) Chip EMI Filter	DTL1106	R 4063	(B,51,73)	RS1/16SS222J
⚠P4201	(B,48,9) Fuse 1.75 A	CEK1283	R 4064	(A,37,67)	RS1/16SS103J
⚠P4202	(B,51,14) Fuse 1.5 A	CEK1282	R 4065	(A,33,74)	RS1/16SS222J
CN4201	(B,9,48) Connector	CKS6126	R 4066	(A,51,80)	RS1/16SS0R0J
CN4601	(A,45,17) Connector	CKS6107	R 4067	(A,50,80)	RS1/16SS0R0J
JA4711	(A,77,92) Connector	CKS5749	R 4068	(B,44,57)	RS1/8SQ0R0J
SN4201	(A,36,91) Sensor	S-58LM20A-N4	R 4069	(A,38,48)	RS1/16SS0R0J

RESISTORS

R 4001	(B,57,67)	RS1/16SS222J	R 4104	(B,61,68)	RAB4CQ220J
R 4002	(B,57,68)	RS1/16SS222J	R 4105	(B,62,45)	RAB4CQ220J
R 4004	(B,58,78)	RS1/16SS103J	R 4106	(B,62,52)	RAB4CQ220J
R 4005	(A,62,13)	RS1/16SS103J	R 4107	(B,62,48)	RAB4CQ220J
R 4006	(B,57,69)	RS1/16SS182J	R 4108	(B,62,43)	RAB4CQ220J
R 4007	(B,57,70)	RS1/16SS103J	R 4109	(B,40,72)	RS1/16SS0R0J
R 4008	(B,60,78)	RS1/16SS103J	R 4110	(A,46,55)	RAB4CQ220J
R 4009	(B,59,78)	RS1/16SS103J	R 4111	(A,43,55)	RAB4CQ220J
R 4010	(B,49,55)	RS1/16SS0R0J	R 4112	(A,44,53)	RAB4CQ220J
R 4013	(A,32,66)	RS1/16SS103J	R 4113	(A,41,53)	RAB4CQ220J
R 4014	(B,46,72)	RS1/16SS0R0J	R 4114	(B,41,73)	RS1/16SS0R0J
R 4016	(B,47,75)	RS1/16SS6041F	R 4115	(A,42,75)	RS1/16SS470J
R 4017	(A,36,64)	RS1/16SS105J	R 4116	(A,44,77)	RS1/16SS220J
R 4018	(B,47,73)	RS1/16SS0R0J	R 4117	(A,44,75)	RS1/16SS220J
R 4020	(A,36,69)	RS1/16SS106J	R 4118	(A,43,75)	RS1/16SS220J

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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 4119	(A,42,77)	RS1/16SS220J	RS1/16SS220J	R 4235	(B,41,41)	RS1/10SR0R0J	RS1/10SR0R0J
R 4120	(A,43,77)	RS1/16SS220J	RS1/16SS220J	R 4236	(B,53,50)	RS1/10SR103J	RS1/10SR103J
R 4121	(A,38,50)	RS1/16SS0R0J	RS1/16SS0R0J	R 4237	(B,51,43)	RS1/10SR103J	RS1/10SR103J
R 4133	(A,39,52)	RS1/16SS330J	RS1/16SS330J	R 4238	(B,57,41)	RS1/10SR103J	RS1/10SR103J
R 4134	(A,38,52)	RS1/16SS330J	RS1/16SS330J	R 4239	(A,62,44)	RS1/8SQ0R0J	RS1/8SQ0R0J
R 4135	(A,40,50)	RS1/16SS220J	RS1/16SS220J	R 4241	(B,36,43)	RS1/10SR103J	RS1/10SR103J
R 4136	(A,51,51)	RS1/16SS220J	RS1/16SS220J	R 4242	(B,33,15)	RS1/8SQ0R0J	RS1/8SQ0R0J
R 4137	(A,50,51)	RS1/16SS470J	RS1/16SS470J	R 4243	(A,48,91)	RS1/8SQ0R0J	RS1/8SQ0R0J
R 4138	(A,39,50)	RS1/16SS0R0J	RS1/16SS0R0J	R 4246	(B,35,43)	RS1/10SR331J	RS1/10SR331J
R 4139	(A,53,52)	RAB4CQ470J	RAB4CQ470J	R 4247	(B,55,50)	RS1/10SR561J	RS1/10SR561J
R 4140	(A,50,53)	RAB4CQ470J	RAB4CQ470J	R 4249	(A,19,39)	RS1/10SR0R0J	RS1/10SR0R0J
R 4141	(A,49,55)	RAB4CQ470J	RAB4CQ470J	R 4250	(B,39,21)	RS1/16SS0R0J	RS1/16SS0R0J
R 4142	(A,47,53)	RAB4CQ470J	RAB4CQ470J	R 4251	(B,22,38)	RS1/16SS0R0J	RS1/16SS0R0J
R 4143	(A,45,75)	RS1/16SS470J	RS1/16SS470J	R 4253	(B,39,20)	RS1/16SS0R0J	RS1/16SS0R0J
R 4144	(A,46,75)	RS1/16SS0R0J	RS1/16SS0R0J	R 4254	(B,59,68)	RS1/10SR103J	RS1/10SR103J
R 4145	(B,45,77)	RAB4CQ470J	RAB4CQ470J	R 4255	(B,20,38)	RS1/16SS0R0J	RS1/16SS0R0J
R 4146	(B,42,77)	RAB4CQ470J	RAB4CQ470J	R 4257	(B,63,22)	RS1/16SS0R0J	RS1/16SS0R0J
R 4147	(A,37,52)	RS1/16SS330J	RS1/16SS330J	R 4259	(B,59,67)	RS1/10SR681J	RS1/10SR681J
R 4148	(B,62,57)	RS1/16SS220J	RS1/16SS220J	R 4261	(B,38,46)	RS1/16SS102J	RS1/16SS102J
R 4149	(B,62,56)	RS1/16SS220J	RS1/16SS220J	R 4262	(B,37,38)	RS1/16SS0R0J	RS1/16SS0R0J
R 4150	(B,62,56)	RS1/16SS220J	RS1/16SS220J	R 4265	(A,5,54)	RS1/10SR0R0J	RS1/10SR0R0J
R 4151	(B,62,55)	RS1/16SS220J	RS1/16SS220J	R 4266	(A,19,24)	RS1/16SS105J	RS1/16SS105J
R 4152	(B,41,71)	RS1/16SS473J	RS1/16SS473J	R 4267	(A,22,14)	RS1/16SS0R0J	RS1/16SS0R0J
R 4153	(B,41,74)	RS1/16SS103J	RS1/16SS103J	R 4268	(B,56,63)	RS1/10SR103J	RS1/10SR103J
R 4154	(B,54,60)	RN1/16SSE1501D	RN1/16SSE1501D	R 4269	(A,56,35)	RS1/10SR471J	RS1/10SR471J
R 4155	(B,52,60)	RN1/16SSE1501D	RN1/16SSE1501D	R 4270	(B,47,77)	RS1/16SS103J	RS1/16SS103J
R 4194	(A,50,75)	RS1/16SS0R0J	RS1/16SS0R0J	R 4271	(B,57,61)	RS1/10SR561J	RS1/10SR561J
R 4196	(B,61,27)	RS1/16SS104J	RS1/16SS104J	R 4275	(A,36,93)	RS1/16SS471J	RS1/16SS471J
R 4197	(B,61,32)	RS1/16SS104J	RS1/16SS104J	R 4277	(A,23,40)	RS1/10SR0R0J	RS1/10SR0R0J
R 4198	(B,44,55)	RS1/16SS104J	RS1/16SS104J	R 4278	(A,28,44)	RS1/10SR0R0J	RS1/10SR0R0J
R 4199	(A,40,55)	RS1/16SS272J	RS1/16SS272J	R 4279	(B,49,76)	RS1/10SR0R0J	RS1/10SR0R0J
R 4201	(A,6,37)	RS1/10SR0R0J	RS1/10SR0R0J	R 4282	(B,22,56)	RS1/10SR103J	RS1/10SR103J
R 4202	(B,6,66)	RS1/10SR0R0J	RS1/10SR0R0J	R 4283	(B,23,54)	RS1/10SR561J	RS1/10SR561J
R 4206	(A,64,14)	RS1/16SS4702D	RS1/16SS4702D	R 4286	(B,48,79)	RS1/16SS0R0J	RS1/16SS0R0J
R 4207	(A,63,14)	RS1/16SS1003D	RS1/16SS1003D	R 4287	(A,7,52) (AU)	RS1/16SS0R0J	RS1/16SS0R0J
R 4208	(A,20,19)	RS1/16SS4702D	RS1/16SS4702D	R 4288	(A,8,52) (UC)	RS1/16SS0R0J	RS1/16SS0R0J
R 4209	(A,19,20)	RS1/16SS1003D	RS1/16SS1003D	R 4290	(A,10,52)	RS1/16SS0R0J	RS1/16SS0R0J
R 4210	(B,63,8)	RS1/16SS223J	RS1/16SS223J	R 4292	(B,4,55)	RS1/16SS0R0J	RS1/16SS0R0J
R 4211	(B,39,17)	RS1/16SS223J	RS1/16SS223J	R 4293	(B,4,54)	RS1/16SS0R0J	RS1/16SS0R0J
R 4212	(B,68,14)	RS1/16SS512J	RS1/16SS512J	R 4294	(B,44,44)	RS1/10SR102J	RS1/10SR102J
R 4213	(B,34,10)	RS1/16SS512J	RS1/16SS512J	R 4295	(B,32,5)	RS1/16SS105J	RS1/16SS105J
R 4214	(B,53,18)	RS1/4S0R0J	RS1/4S0R0J	R 4296	(A,12,41)	RS1/16SS0R0J	RS1/16SS0R0J
R 4215	(B,45,6)	RS1/4S0R0J	RS1/4S0R0J	R 4297	(A,12,53)	RS1/16SS0R0J	RS1/16SS0R0J
R 4216	(B,64,16)	RS1/10SR103J	RS1/10SR103J	R 4298	(A,5,52)	RS1/16SS0R0J	RS1/16SS0R0J
R 4217	(B,38,9)	RS1/10SR103J	RS1/10SR103J	R 4401	(B,79,76)	RAB4CQ220J	RAB4CQ220J
R 4218	(B,69,12)	RS1/16SS5102D	RS1/16SS5102D	R 4402	(B,79,73)	RAB4CQ220J	RAB4CQ220J
R 4219	(B,67,13)	RS1/16SS0R0J	RS1/16SS0R0J	R 4403	(B,79,70)	RAB4CQ220J	RAB4CQ220J
R 4220	(B,69,14)	RS1/16SS2402D	RS1/16SS2402D	R 4404	(A,77,63)	RS1/16SS471J	RS1/16SS471J
R 4221	(B,34,13)	RS1/16SS1003D	RS1/16SS1003D	R 4405	(B,79,67)	RAB4CQ220J	RAB4CQ220J
R 4222	(B,36,12)	RS1/16SS9101D	RS1/16SS9101D	R 4406	(B,79,28)	RAB4CQ220J	RAB4CQ220J
R 4223	(B,33,10)	RS1/16SS2003D	RS1/16SS2003D	R 4407	(B,79,31)	RAB4CQ220J	RAB4CQ220J
R 4224	(B,51,8)	RS1/16SS0R0J	RS1/16SS0R0J	R 4408	(B,79,34)	RAB4CQ220J	RAB4CQ220J
R 4225	(B,45,16)	RS1/16SS0R0J	RS1/16SS0R0J	R 4409	(B,79,37)	RAB4CQ220J	RAB4CQ220J
R 4226	(A,19,27)	RS1/16SS104J	RS1/16SS104J	R 4410	(B,79,64)	RS1/16SS220J	RS1/16SS220J
R 4228	(A,18,12)	RS1/16SS103J	RS1/16SS103J	R 4411	(B,79,64)	RS1/16SS220J	RS1/16SS220J
R 4229	(B,59,45)	RS1/10SR103J	RS1/10SR103J	R 4412	(B,78,43)	RS1/16SS220J	RS1/16SS220J
R 4230	(B,57,44)	RS1/10SR102J	RS1/10SR102J	R 4413	(B,78,42)	RS1/16SS220J	RS1/16SS220J
R 4231	(A,53,49)	RS1/16SS220J	RS1/16SS220J	R 4414	(A,51,48)	RS1/16SS103J	RS1/16SS103J
R 4233	(A,29,86)	RS1/10SR0R0J	RS1/10SR0R0J	R 4415	(A,63,41)	RS1/16SS471J	RS1/16SS471J
R 4234	(B,24,65)	RS1/10SR0R0J	RS1/10SR0R0J	R 4419	(A,51,49)	RS1/16SS473J	RS1/16SS473J

	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 4420 (B,63,63)	RS1/16SS471J	R 4639 (B,44,22)	RS1/16SS0R0J
	R 4424 (A,39,48)	RS1/16SS0R0J	R 4640 (A,62,7)	RS1/16SS473J
A	R 4431 (B,77,41)	RS1/16SS471J	R 4641 (A,62,4)	RS1/16SS473J
	R 4432 (A,57,62)	RS1/16SS150J	R 4642 (A,62,5)	RS1/16SS473J
	R 4433 (A,57,63)	RS1/16SS150J	R 4643 (A,62,6)	RS1/16SS473J
	R 4434 (A,60,50)	RS1/16SS390J	R 4647 (B,49,22)	RS1/16SS103J
	R 4435 (B,62,54)	RS1/16SS390J	R 4648 (B,50,22)	RS1/16SS103J
	R 4436 (A,63,61)	RS1/16SS560J	R 4649 (B,53,22)	RS1/16SS103J
	R 4437 (A,63,63)	RS1/16SS560J	R 4661 (B,25,56)	RS1/16SS0R0J
	R 4438 (A,62,50)	RS1/16SS560J	R 4667 (B,37,52)	RS1/16SS101J
	R 4439 (A,62,49)	RS1/16SS560J	R 4668 (B,20,47)	RS1/10SR0R0J
	R 4440 (A,60,69)	RAB4CQ330J	R 4669 (B,26,46)	RS1/16SS0R0J
	R 4441 (A,60,66)	RAB4CQ330J	R 4670 (B,26,47)	RS1/16SS0R0J
B	R 4442 (A,57,68)	RAB4CQ330J	R 4671 (B,28,46)	RS1/16SS0R0J
	R 4443 (A,57,65)	RAB4CQ330J	R 4677 (B,28,47)	RS1/16SS0R0J
	R 4444 (A,58,50)	RAB4CQ330J	R 4678 (B,37,51)	RS1/16SS0R0J
	R 4446 (A,39,39)	RS1/16SS104J	R 4679 (B,35,48)	RS1/16SS330J
	R 4448 (A,30,37)	RS1/16SS104J	R 4680 (B,35,47)	RS1/16SS330J
	R 4449 (A,40,39)	RS1/16SS104J	R 4681 (B,35,46)	RS1/16SS0R0J
	R 4450 (B,78,39)	RN1/16SSE1501D	R 4682 (B,33,47)	RS1/16SS0R0J
	R 4451 (B,78,41)	RN1/16SSE1501D	R 4683 (B,25,58)	RS1/16SS1000D
	R 4452 (B,62,64)	RN1/16SSE1501D	R 4684 (B,25,57)	RS1/16SS1000D
	R 4453 (B,61,64)	RN1/16SSE1501D	R 4685 (B,31,43)	RS1/16SS0R0J
	R 4454 (A,63,38)	RN1/16SSE1501D	R 4686 (B,32,43)	RS1/16SS0R0J
C	R 4455 (A,62,38)	RN1/16SSE1501D	R 4687 (B,33,43)	RS1/16SS0R0J
	R 4456 (A,78,64)	RN1/16SSE1501D	R 4688 (B,34,43)	RS1/16SS0R0J
	R 4457 (A,78,66)	RN1/16SSE1501D	R 4702 (B,21,26)	RS1/16SS0R0J
	R 4501 (B,40,79)	RS1/16SS820J	R 4703 (B,25,16)	RS1/16SS0R0J
	R 4502 (B,40,78)	RS1/16SS472J	R 4704 (B,24,16)	RS1/16SS0R0J
	R 4503 (B,34,79)	RAB4CQ563J	R 4707 (B,24,23)	RS1/16SS473J
	R 4504 (B,37,79)	RAB4CQ563J	R 4708 (B,22,16)	RS1/16SS104J
	R 4505 (B,34,77)	RS1/16SS0R0J	R 4709 (B,21,23)	RS1/16SS103J
	R 4506 (A,41,81)	RS1/10SR0R0J	R 4710 (B,20,25)	RS1/16SS223J
	R 4507 (A,41,80)	RS1/10SR0R0J	R 4711 (A,57,89)	RS1/16SS2R7J
	R 4603 (A,40,37)	RS1/16SS0R0J	R 4712 (A,52,85)	RS1/16SS472J
D	R 4604 (A,53,35)	RS1/16SS220J	R 4713 (B,52,86)	RS1/16SS203J
	R 4605 (A,50,35)	RS1/16SS220J	R 4714 (A,55,82)	RS1/16SS101J
	R 4606 (A,48,35)	RS1/16SS220J	R 4715 (A,54,82)	RS1/16SS101J
	R 4607 (A,35,35)	RS1/16SS220J	R 4716 (A,53,82)	RS1/16SS101J
	R 4608 (A,34,35)	RS1/16SS220J	R 4718 (A,57,82)	RS1/16SS0R0J
	R 4609 (A,31,35)	RS1/16SS152J	R 4719 (A,58,82)	RS1/16SS0R0J
	R 4610 (A,29,35)	RS1/16SS330J	R 4720 (A,56,82)	RS1/16SS0R0J
	R 4612 (B,26,42)	RS1/16SS104J	R 4721 (B,68,87)	RS1/16SS0R0J
	R 4613 (B,25,43)	RS1/16SS104J	R 4723 (B,59,87)	RN1/16SC10R0D
	R 4617 (B,46,22)	RS1/16SS103J	R 4724 (B,60,88)	RN1/16SSE1501D
E	R 4618 (B,61,30)	RS1/16SS104J	R 4725 (B,60,90)	RN1/16SSE2402D
	R 4619 (B,60,27)	RS1/16SS104J	R 4726 (B,60,92)	RN1/16SSE3302D
	R 4620 (B,61,31)	RS1/16SS104J	R 4728 (B,64,88)	RN1/16SSE4702D
	R 4622 (B,59,32)	RS1/16SS101J	R 4729 (B,62,92)	RN1/16SSE4702D
	R 4623 (B,59,31)	RS1/16SS0R0J	R 4730 (B,61,88)	RS1/16SS432J
	R 4624 (B,59,30)	RS1/16SS101J	R 4731 (B,62,88)	RN1/16SSE1002D
	R 4625 (B,59,29)	RS1/16SS101J	R 4732 (B,67,89)	RN1/16SSE2202D
	R 4628 (B,57,23)	RS1/16SS0R0J	R 4733 (B,68,89)	RN1/16SSE3302D
	R 4631 (B,53,42)	RS1/16SS151J	R 4734 (B,68,91)	RS1/16SS103J
	R 4633 (B,58,22)	RS1/16SS0R0J	R 4735 (B,68,90)	RS1/16SS102J
	R 4634 (B,55,22)	RS1/16SS0R0J	R 4736 (B,63,86)	RS1/16SS102J
F	R 4635 (B,59,25)	RS1/16SS0R0J	R 4739 (A,52,83)	RS1/16SS151J
	R 4636 (B,45,22)	RS1/16SS0R0J	R 4740 (A,55,89)	RS1/16SS0R0J
	R 4637 (B,47,41)	RS1/16SS0R0J	R 4742 (A,61,91)	RS1/16SS0R0J
	R 4638 (B,45,22)	RS1/16SS0R0J	R 4771 (A,55,35)	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 4772	(A,52,35)	RS1/16SS103J		R 4933	(B,28,81)	RS1/16SS104J	
R 4773	(A,49,35)	RS1/16SS103J		R 4935	(B,26,27)	RS1/16SS0R0J	
R 4774	(A,39,35)	RS1/16SS103J		R 4937	(A,18,48)	RS1/10SR0R0J	A
R 4775	(A,37,35)	RS1/16SS103J		R 4938	(A,21,63)	RS1/16SS151J	
R 4776	(A,33,35)	RS1/16SS103J		R 4939	(A,20,66)	RS1/16SS151J	
R 4781	(B,21,42)	RS1/16SS221J		R 4940	(A,20,63)	RS1/16SS151J	
R 4801	(A,23,46)	RS1/16SS470J		R 4941	(A,21,66)	RS1/16SS151J	
R 4802	(A,24,46)	RS1/16SS470J		R 4942	(A,22,63)	RS1/16SS151J	
R 4803	(A,25,46)	RS1/16SS470J		R 4943	(A,22,66)	RS1/16SS151J	
R 4804	(A,25,46)	RS1/16SS470J		R 4944	(A,23,63)	RS1/16SS151J	
R 4805	(A,26,46)	RS1/16SS470J		R 4945	(A,23,66)	RS1/16SS151J	
R 4806	(A,29,45)	RS1/16SS470J		R 4946	(A,24,63)	RS1/16SS151J	
R 4807	(A,29,46)	RS1/16SS470J		R 4947	(A,24,66)	RS1/16SS151J	
R 4808	(A,30,46)	RS1/16SS470J		R 4948	(A,25,63)	RS1/16SS151J	B
R 4809	(A,30,46)	RS1/16SS470J		R 4949	(A,25,66)	RS1/16SS151J	
R 4810	(A,31,46)	RS1/16SS470J		R 4950	(A,26,63)	RS1/16SS151J	
R 4811	(A,23,45)	RS1/16SS470J		R 4951	(A,5,60)	RS1/16SS1003D	
R 4812	(A,25,58)	RS1/16SS6801D		R 4953	(A,19,66)	RS1/16SS151J	
R 4813	(A,28,58)	RS1/16SS0R0J		R 4955	(A,17,80)	RS1/16SS0R0J	
R 4814	(A,33,51)	RS1/16SS0R0J		R 4956	(B,18,85)	RS1/16SS0R0J	
R 4815	(A,32,49)	RS1/16SS470J		R 4957	(B,23,79)	RS1/16SS0R0J	
R 4816	(A,33,56)	RS1/16SS103J		R 4958	(A,17,82)	RS1/16SS0R0J	
R 4817	(A,33,57)	RS1/16SS151J		R 4959	(A,28,66)	RS1/16SS151J	
R 4818	(A,33,55)	RS1/16SS103J		R 4960	(A,19,84)	RS1/16SS152J	
R 4819	(A,33,52)	RS1/16SS0R0J		R 4961	(A,22,84)	RS1/16SS1001D	C
R 4821	(A,33,53)	RS1/16SS0R0J		R 4962	(A,20,86)	RS1/16SS1201F	
R 4822	(A,28,63)	RS1/16SS151J		R 4963	(B,19,83)	RS1/10SR0R0J	
R 4823	(A,27,66)	RS1/16SS151J		R 4964	(A,29,65)	RS1/16SS151J	
R 4824	(A,27,63)	RS1/16SS151J		R 4965	(B,31,26)	RS1/16SS0R0J	
R 4825	(A,26,66)	RS1/16SS151J		R 4966	(A,18,60)	RS1/16SS6800D	
R 4901	(A,32,85)	RS1/16SS151J		R 4967	(B,35,29)	RS1/16SS0R0J	
R 4902	(A,33,85)	RS1/16SS151J		R 4968	(B,35,30)	RS1/16SS0R0J	
R 4903	(A,18,65)	RS1/10SR270J		R 4969	(B,35,31)	RS1/16SS0R0J	
R 4904	(A,34,78)	RS1/16SS151J		R 4970	(B,35,32)	RS1/16SS0R0J	
R 4905	(A,27,84)	RS1/16SS151J		R 4971	(B,35,32)	RS1/16SS0R0J	
R 4906	(A,36,80)	RS1/16SS151J		R 4972	(B,35,35)	RS1/16SS0R0J	D
R 4907	(A,36,81)	RS1/16SS151J		R 4973	(B,23,34)	RS1/16SS1000D	
R 4908	(A,34,78)	RS1/16SS151J		R 4974	(B,36,38)	RS1/16SS0R0J	
R 4909	(A,34,79)	RS1/16SS151J		R 4975	(B,33,40)	RS1/16SS0R0J	
R 4910	(A,34,80)	RS1/16SS151J		R 4976	(B,31,40)	RS1/16SS0R0J	
R 4911	(A,28,84)	RS1/16SS151J		R 4977	(B,30,40)	RS1/16SS0R0J	
R 4912	(A,34,83)	RS1/16SS151J		R 4978	(B,27,40)	RS1/16SS0R0J	
R 4913	(A,34,84)	RS1/16SS151J		R 4979	(B,26,40)	RS1/16SS0R0J	
R 4914	(A,29,84)	RS1/16SS151J		R 4980	(B,25,40)	RS1/16SS0R0J	
R 4915	(A,34,82)	RS1/16SS151J		R 4981	(B,24,40)	RS1/16SS0R0J	
R 4916	(A,34,82)	RS1/16SS151J		R 4982	(B,27,26)	RS1/16SS473J	E
R 4917	(A,29,84)	RS1/16SS151J		R 4984	(B,32,40)	RS1/16SS0R0J	
R 4918	(A,34,81)	RS1/16SS151J		R 4985	(B,32,40)	RS1/16SS0R0J	
R 4919	(A,30,84)	RS1/16SS151J		R 4986	(B,35,38)	RS1/16SS0R0J	
R 4920	(A,31,84)	RS1/16SS151J		R 4987	(B,35,36)	RS1/16SS0R0J	
R 4921	(B,17,66)	RS1/16SS0R0J		R 4988	(B,31,26)	RS1/16SS0R0J	
R 4922	(A,6,64)	RS1/16SS2202D		R 4989	(B,32,26)	RS1/16SS0R0J	
R 4923	(A,4,62)	RS1/16SS182J		R 4990	(B,27,40)	RS1/16SS0R0J	
R 4924	(A,18,58)	RS1/16SS8200D		R 4991	(B,34,38)	RS1/16SS0R0J	
R 4925	(A,20,61)	RS1/16SS561J		R 4992	(B,26,26)	RS1/16SS0R0J	
R 4926	(A,23,84)	RS1/16SS274J		R 4993	(B,30,26)	RS1/16SS562J	
R 4928	(A,25,89)	RS1/16SS0R0J		R 4994	(A,6,56)	RS1/16SS104J	F
R 4929	(A,25,88)	RS1/16SS0R0J		R 4995	(A,29,67)	RS1/16SS151J	
R 4930	(A,28,85)	RS1/16SS0R0J		R 4996	(A,30,65)	RS1/16SS151J	
R 4932	(A,27,86)	RS1/16SS223J		R 4997	(A,30,67)	RS1/16SS151J	

1

Circuit Symbol and No.

R 4999 (B,25,27)

2

Part No.

RS1/16SS562J

3

Circuit Symbol and No.

C 4062 (B,43,68)

C 4063 (B,42,62)

C 4064 (B,42,64)

C 4065 (B,42,65)

4

Part No.

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

CAPACITORS

A

C 4002 (B,53,69)

C 4003 (B,52,58)

C 4004 (B,52,59)

C 4005 (B,54,68)

C 4007 (B,50,55)

CKSQYB106K6R3

CKSSYB102K50

CKSRYB104K10

CKSSYB104K10

CKSSYB104K10

C 4066 (B,41,65)

C 4069 (B,39,67)

C 4070 (B,39,65)

C 4071 (B,49,59)

C 4072 (B,50,71)

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

CKSQYB106K6R3

CKSQYB106K6R3

C 4008 (B,53,62)

C 4009 (B,47,54)

C 4010 (B,53,63)

C 4011 (B,53,64)

C 4012 (B,53,65)

CKSSYB104K10

CKSSYB104K10

CKSSYB102K50

CKSSYB102K50

CKSSYB102K50

C 4073 (B,40,64)

C 4074 (B,44,59)

C 4075 (B,43,58)

C 4076 (B,41,70)

C 4077 (B,42,71)

CKSSYB104K10

CKSRYB105K10

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

B

C 4013 (B,53,66)

C 4014 (B,53,67)

C 4015 (B,53,68)

C 4016 (B,50,63)

C 4017 (B,50,63)

CKSSYB102K50

CKSSYB102K50

CKSSYB102K50

CKSSYB102K50

CKSSYB102K50

C 4078 (B,51,74)

C 4079 (B,39,66)

C 4080 (B,41,67)

C 4081 (B,42,70)

C 4082 (B,42,74)

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

C 4018 (B,50,64)

C 4019 (B,50,65)

C 4020 (B,50,66)

C 4021 (B,50,67)

C 4022 (B,50,69)

CKSSYB104K10

CKSSYB102K50

CKSSYB102K50

CKSSYB104K10

CKSSYB104K10

C 4083 (B,40,61)

C 4084 (B,39,62)

C 4086 (B,36,64)

C 4087 (B,41,68)

C 4088 (B,36,62)

CKSRYB105K10

CKSRYB105K10

CKSQYB106K6R3

CKSRYB105K10

CKSSYB104K10

C

C 4023 (B,49,64)

C 4026 (B,49,67)

C 4027 (B,50,67)

C 4028 (B,50,68)

C 4029 (B,55,53)

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

CKSSYB103K16

C 4089 (B,44,72)

C 4090 (B,43,74)

C 4091 (B,44,74)

C 4092 (A,33,60)

C 4093 (A,34,71)

CKSRYB105K10

CKSRYB105K10

CKSRYB105K10

CCSSCH120J50

CCSSCH220J50

C 4030 (B,54,53)

C 4031 (B,48,60)

C 4032 (B,49,69)

C 4033 (B,48,70)

C 4034 (B,48,62)

CKSSYB103K16

CKSSYB102K50

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

C 4094 (A,33,66)

C 4095 (A,33,64)

C 4096 (B,54,62)

C 4097 (B,49,54)

C 4098 (B,56,53)

CCSSCH220J50

CCSSCH120J50

CKSRYB105K10

CKSRYB105K10

CKSSYB103K16

D

C 4035 (B,48,60)

C 4036 (B,48,69)

C 4037 (B,48,62)

C 4038 (B,47,64)

C 4039 (B,47,69)

CKSSYB102K50

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

C 4103 (B,46,59) 47 uF/6.3 V

C 4104 (B,48,72)

C 4201 (A,6,30)

C 4202 (A,6,34)

C 4203 (A,5,41)

CCH1852

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

C 4040 (B,55,53)

C 4041 (B,47,63)

C 4042 (B,47,70)

C 4043 (B,46,63)

C 4044 (B,47,69)

CKSSYB103K16

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

C 4204 (A,19,36)

C 4205 (A,10,31) 10 uF

C 4206 (A,10,34) 10 uF

C 4207 (A,12,38) 10 uF

C 4208 (A,22,37) 10 uF

CKSSYB104K10

DCH1201

DCH1201

DCH1201

DCH1201

E

C 4045 (B,46,62)

C 4046 (B,46,69)

C 4047 (B,45,62)

C 4048 (B,45,69)

C 4049 (B,44,62)

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

C 4209 (A,12,31) 10 uF

C 4210 (A,12,34) 10 uF

C 4211 (A,10,38) 10 uF

C 4212 (A,24,37) 10 uF

C 4213 (B,63,9)

DCH1201

DCH1201

DCH1201

DCH1201

CKSSYB104K10

C 4050 (B,44,69)

C 4051 (B,43,62)

C 4052 (B,46,70)

C 4053 (B,44,61)

C 4054 (B,42,63)

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

C 4214 (B,38,16)

C 4215 (A,18,31)

C 4216 (B,67,14)

C 4217 (B,35,10)

C 4218 (B,68,16)

CKSSYB104K10

CKSSYB104K10

CCSSCH101J50

CCSSCH101J50

CCSSCH102J50

F

C 4055 (B,45,63)

C 4056 (B,44,63)

C 4057 (B,42,65)

C 4059 (B,42,66)

C 4060 (B,44,66)

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

CKSSYB104K10

C 4219 (B,34,9)

C 4221 (A,24,42)

C 4222 (B,69,13)

C 4223 (B,34,12)

C 4224 (A,19,29)

CCSSCH102J50

CKSRYB105K10

CCSSCH100D50

CCSSCH220J50

CKSSYB392K50

C 4061 (B,43,68)

CKSSYB104K10

C 4226 (A,26,44)

CKSRYB105K10

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 4227	(B,61,9) 10 uF	DCH1201		C 4415	(A,78,29)	CKSSYB103K16	
C 4228	(B,42,17) 10 uF	DCH1201		C 4416	(A,78,33)	CKSSYB103K16	
C 4229	(A,17,34)	CKSSYB104K10		C 4417	(A,77,36)	CKSSYB103K16	
C 4230	(B,60,17) 10 uF	DCH1201		C 4418	(A,77,39)	CKSSYB103K16	A
C 4231	(B,42,9) 10 uF	DCH1201		C 4419	(A,77,49)	CKSSYB103K16	
C 4232	(B,60,19) 47 uF/10 V	CCH1820		C 4420	(A,75,24)	CKSQYB106K6R3	
C 4233	(B,40,6) 47 uF/10 V	CCH1820		C 4421	(A,71,25)	CKSRYB105K10	
C 4236	(B,57,9) 10 uF	CCG1234		C 4422	(A,63,32)	CKSSYB103K16	
C 4237	(B,44,18) 10 uF	CCG1234		C 4423	(A,63,36)	CKSSYB103K16	
C 4238	(B,55,9) 10 uF	CCG1234		C 4424	(A,70,25)	CKSSYB104K10	
C 4239	(B,46,18) 10 uF	CCG1234		C 4425	(A,63,39)	CKSSYB103K16	
C 4240	(A,20,32)	CKSSYB392K50		C 4426	(A,74,53)	CKSRYB105K10	
C 4241	(B,53,8) 100 uF/4 V	CCH1809		C 4427	(B,77,76)	CKSSYB103K16	
C 4242	(B,48,18) 100 uF/4 V	CCH1809		C 4428	(B,77,74)	CKSSYB103K16	
C 4243	(A,19,28)	CKSSYB102K50		C 4429	(B,77,71)	CKSSYB103K16	B
C 4244	(B,60,39)	CKSSYB104K10		C 4430	(B,77,67)	CKSSYB103K16	
C 4245	(B,53,43)	CKSRYB474K16		C 4431	(B,77,64)	CKSSYB103K16	
C 4246	(A,19,16)	CKSSYB104K10		C 4432	(B,77,56)	CKSSYB103K16	
C 4247	(A,23,14)	CKSSYB104K10		C 4433	(B,68,78)	CKSQYB106K6R3	
C 4248	(B,26,65)	CKSRYB105K10		C 4435	(B,63,72)	CKSSYB103K16	
C 4249	(A,31,87)	CKSRYB105K10		C 4436	(B,63,68)	CKSSYB103K16	
C 4250	(B,40,40)	CKSRYB105K10		C 4437	(A,50,46)	CKSSYB104K10	
C 4251	(A,34,88)	CKSRYB105K10		C 4438	(B,62,76)	CKSSYB104K10	
C 4252	(B,28,67)	CKSRYB105K10		C 4439	(B,63,64)	CKSSYB103K16	
C 4253	(B,39,37)	CKSRYB105K10		C 4441	(A,51,46)	CKSRYB105K10	C
C 4255	(B,38,45)	CKSSYB104K10		C 4442	(B,63,27)	CKSSYB103K16	
C 4256	(B,50,52)	CKSSYB104K10		C 4443	(B,63,29)	CKSSYB103K16	
C 4257	(A,19,41)	CKSRYB105K10		C 4444	(B,63,32)	CKSSYB103K16	
C 4259	(A,18,45)	CKSRYB105K10		C 4445	(B,63,36)	CKSSYB103K16	
C 4260	(B,59,74)	CKSSYB104K10		C 4446	(B,63,39)	CKSSYB103K16	
C 4261	(B,41,21)	CKSSYB103K16		C 4447	(B,64,50)	CKSSYB103K16	
C 4265	(B,57,65)	CKSSYB104K10		C 4448	(B,66,25)	CKSQYB106K6R3	
C 4266	(B,49,78)	CKSRYB105K10		C 4450	(B,77,31)	CKSSYB103K16	
C 4267	(B,49,81)	CKSRYB105K10		C 4451	(B,77,35)	CKSSYB103K16	
C 4269	(A,22,24)	CKSSYB103K16		C 4452	(B,71,25)	CKSSYB104K10	
C 4270	(B,64,20)	CKSSYB103K16		C 4453	(B,77,39)	CKSSYB103K16	D
C 4271	(A,42,88)	CKSSYB104K10		C 4455	(A,27,35)	CKSSYB104K10	
C 4272	(A,38,93)	CKSSYB104K10		C 4456	(A,26,41)	CKSSYB104K10	
C 4273	(A,38,90)	CKSSYB104K10		C 4457	(A,29,41)	CKSQYB106K6R3	
C 4274	(B,47,45)	CKSSYB104K10		C 4458	(A,31,41)	CKSSYB104K10	
C 4275	(B,50,48) 10 uF	DCH1201		C 4459	(A,39,41)	CKSSYB104K10	
C 4277	(B,51,48) 10 uF	DCH1201		C 4511	(A,42,84)	CKSSYB104K10	
C 4278	(A,37,93)	CKSSYB104K10		C 4512	(A,37,83)	CKSRYB105K10	
C 4279	(B,30,5)	CKSSYB104K10		C 4513	(A,42,86)	CKSSYB104K10	
C 4280	(B,20,59)	CKSSYB104K10		C 4514	(A,40,85)	CKSSYB104K10	
C 4282	(B,24,60)	CKSSYB104K10		C 4515	(A,41,87)	CKSSYB104K10	
C 4401	(A,62,76)	CKSSYB103K16		C 4516	(A,36,87)	CKSSYB104K10	E
C 4402	(A,62,75)	CKSSYB103K16		C 4517	(A,36,85)	CKSSYB104K10	
C 4403	(A,63,71)	CKSSYB103K16		C 4518	(A,36,84)	CKSSYB104K10	
C 4404	(A,63,68)	CKSSYB103K16		C 4519	(A,36,86)	CKSSYB104K10	
C 4405	(A,63,64)	CKSSYB103K16		C 4520	(A,39,89)	CKSSYB104K10	
C 4406	(A,63,56)	CKSSYB103K16		C 4521	(A,38,87)	CKSSYB104K10	
C 4407	(A,77,52)	CKSQYB106K6R3		C 4522	(A,39,84)	CKSRYB105K10	
C 4408	(B,70,25)	CKSRYB105K10		C 4607	(A,30,35)	CKSSYB104K10	
C 4409	(A,77,73)	CKSSYB103K16		C 4608	(A,29,35)	CKSSYB104K10	
C 4410	(A,77,68)	CKSSYB103K16		C 4609	(A,44,35)	CKSRYB104K50	
C 4411	(A,73,52)	CKSSYB104K10		C 4613	(B,40,30)	CKSSYB473K10	F
C 4412	(A,77,64)	CKSSYB103K16		C 4614	(B,23,45)	CKSSYB104K10	
C 4413	(B,63,77)	CKSRYB105K10		C 4621	(B,59,28)	CKSSYB473K10	
C 4414	(A,78,27)	CKSSYB103K16		C 4622	(B,57,24)	CKSSYB473K10	

	1	2	3	4
	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
	C 4623 (B,48,22)	CKSSYB473K10	C 4814 (B,23,74)	CKSSYB103K16
	C 4624 (B,40,25)	CKSSYB473K10	C 4815 (B,21,74)	CKSSYB103K16
	C 4625 (B,48,41)	CKSSYB473K10	C 4816 (B,24,76)	CKSSYB103K16
A	C 4626 (B,55,41)	CKSSYB473K10	C 4817 (B,23,76)	CKSSYB103K16
	C 4651 (B,43,53)	CKSSYB104K10	C 4818 (B,22,76)	CKSSYB103K16
	C 4653 (B,30,57) 4.7 uF	CCG1201	C 4819 (B,21,75)	CKSSYB103K16
	C 4661 (B,31,47) 4.7 uF	CCG1201	C 4820 (B,20,74)	CKSSYB103K16
	C 4662 (B,35,50) 4.7 uF	CCG1201	C 4821 (B,21,76)	CKSSYB103K16
	C 4665 (B,36,53) 4.7 uF	CCG1201	C 4822 (B,20,77)	CKSSYB104K10
	C 4666 (B,23,49) 4.7 uF	CCG1201	C 4823 (B,21,80)	CKSSYB104K10
	C 4667 (B,27,58) 4.7 uF	CCG1201	C 4824 (B,22,78)	CKSSYB104K10
	C 4668 (B,28,45)	CKSRYB105K10	C 4825 (B,21,78)	CKSSYB104K10
	C 4670 (B,24,53) 4.7 uF	CCG1201	C 4826 (B,22,80)	CKSSYB104K10
	C 4671 (B,23,51) 4.7 uF	CCG1201	C 4827 (B,23,78)	CKSSYB104K10
B	C 4701 (B,26,23)	CKSSYB104K10	C 4828 (B,22,81)	CKSSYB104K10
	C 4711 (A,58,89)	CKSSYB105K6R3	C 4829 (B,18,77)	CKSSYB104K10
	C 4712 (B,58,90)	CKSSYB103K16	C 4830 (B,18,79)	CKSSYB104K10
	C 4713 (B,53,92)	CKSSYB102K50	C 4831 (B,18,78)	CKSSYB104K10
	C 4714 (A,60,84)	CKSSYB104K10	C 4832 (B,18,80)	CKSSYB104K10
	C 4715 (A,60,83)	CCSSCH101J50	C 4833 (B,18,81)	CKSSYB104K10
	C 4716 (A,60,85) 10 uF	CCG1244	C 4834 (B,18,81)	CKSSYB104K10
	C 4717 (A,59,84)	CKSSYB104K10	C 4835 (B,18,82)	CKSSYB104K10
	C 4718 (A,59,86)	CCSSCH470J50	C 4836 (B,18,83)	CKSSYB104K10
	C 4719 (A,56,89)	CKSSYB104K10	C 4837 (B,22,82)	CKSSYB103K16
C	C 4720 (A,56,89)	CCSSCH470J50	C 4838 (B,24,72)	CKSSYB103K16
	C 4721 (A,56,90)	CCSSCH101J50	C 4839 (B,24,73)	CKSSYB103K16
	C 4722 (A,53,88)	CCSSCH470J50	C 4840 (B,26,72)	CKSSYB103K16
	C 4723 (A,52,87)	CCSSCH470J50	C 4841 (B,26,73)	CKSSYB103K16
	C 4724 (A,63,91)	CCSSCH101J50	C 4842 (B,27,73)	CKSSYB103K16
	C 4725 (A,71,92)	CCSSCH101J50	C 4843 (B,28,73)	CKSSYB103K16
	C 4727 (B,76,92)	CCSSCH101J50	C 4844 (B,29,73)	CKSSYB103K16
	C 4728 (B,70,89)	CKSSYB102K50	C 4845 (B,29,73)	CKSSYB103K16
	C 4729 (B,69,88)	CKSSYB103K16	C 4846 (B,28,74)	CKSSYB103K16
	C 4730 (B,66,86)	CKSSYB104K10	C 4847 (B,28,74)	CKSSYB103K16
	C 4731 (B,65,84)	CKSSYB104K10	C 4848 (B,29,74)	CKSSYB103K16
D	C 4732 (B,65,86)	CKSSYB103K16	C 4849 (B,30,74)	CKSSYB103K16
	C 4733 (B,61,90)	CCSSCH101J50	C 4850 (B,30,76)	CKSSYB103K16
	C 4734 (B,66,88)	CKSSYB104K10	C 4851 (B,31,77)	CKSSYB103K16
	C 4735 (A,68,92)	CCSSCK1R0C50	C 4852 (B,29,77)	CKSSYB103K16
	C 4781 (B,36,49) 10 uF	CCG1234	C 4853 (B,29,76)	CKSSYB103K16
	C 4782 (B,30,59) 10 uF	CCG1234	C 4854 (B,28,76)	CKSSYB103K16
	C 4783 (B,49,87) 10 uF	CCG1234	C 4855 (B,28,76)	CKSSYB103K16
	C 4784 (B,59,39)	CKSRYB105K10	C 4856 (B,30,78)	CKSSYB103K16
	C 4785 (A,41,40)	CKSRYB105K10	C 4857 (B,30,81)	CKSSYB103K16
	C 4786 (B,39,34)	CKSRYB105K10	C 4858 (B,29,78)	CKSSYB103K16
	C 4787 (B,51,81)	CKSSYB102K50	C 4859 (B,28,78)	CKSSYB103K16
E	C 4788 (B,19,27) 10 uF	CCG1234	C 4860 (B,29,81)	CKSSYB103K16
	C 4801 (B,22,32)	CKSSYB103K16	C 4861 (B,28,78)	CKSSYB103K16
	C 4802 (B,29,26)	CKSSYB104K10	C 4862 (B,27,77)	CKSSYB103K16
	C 4803 (B,21,71)	CKSSYB103K16	C 4863 (B,27,79)	CKSSYB103K16
	C 4804 (B,24,71)	CKSSYB103K16	C 4864 (B,26,77)	CKSSYB103K16
	C 4805 (B,26,71)	CKSSYB103K16	C 4865 (B,26,79)	CKSSYB103K16
	C 4806 (B,27,71)	CKSSYB103K16	C 4866 (B,25,78)	CKSSYB103K16
	C 4807 (B,27,69)	CKSSYB103K16	C 4867 (B,24,76)	CKSSYB103K16
	C 4808 (B,29,71)	CKSSYB103K16	C 4868 (B,26,76)	CKSSYB103K16
	C 4809 (B,21,72)	CKSSYB103K16	C 4869 (B,25,79)	CKSSYB103K16
F	C 4810 (B,24,74)	CKSSYB103K16	C 4870 (B,27,81)	CKSSYB103K16
	C 4811 (B,21,73)	CKSSYB103K16	C 4871 (B,26,81)	CKSSYB103K16
	C 4812 (B,23,72)	CKSSYB103K16	C 4872 (B,25,81)	CKSSYB103K16
	C 4813 (B,22,74)	CKSSYB103K16	C 4901 (B,21,70)	CKSSYB103K16

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 4902	(B,24,70)	CKSSYB103K16		C 4989	(A,17,86)	CCSSCH4R0C50	
C 4903	(B,26,70)	CKSSYB103K16		C 4990	(A,22,86)	CCSSCH100D50	
C 4904	(B,27,70)	CKSSYB103K16		C 4991	(A,25,87)	CCSSCH100D50	
C 4905	(B,28,69)	CKSSYB103K16		C 4993	(B,21,69)	CKSRYP105K10	
C 4906	(B,29,70)	CKSSYB103K16		C 4994	(A,4,60) 10 uF	CCG1244	
C 4907	(B,21,36)	CKSSYB104K10		C 4995	(B,29,40)	CKSSYB104K10	
C 4908	(B,21,34)	CKSSYB104K16		C 4996	(B,35,34)	CKSSYB104K10	
C 4909	(B,21,33)	CKSSYB104K16		C 4998	(B,22,36)	CKSSYB103K16	
C 4910	(B,21,32)	CKSSYB104K10		C 4999	(B,22,30)	CKSSYB103K16	
C 4912	(B,18,84)	CKSSYB104K10		F Unit Number : CWN3985 Unit Name : Navi Unit			
C 4913	(B,20,79)	CKSSYB104K10					
C 4914	(B,20,80)	CKSSYB104K10					
C 4915	(B,21,81)	CKSSYB104K10					
C 4916	(B,20,79)	CKSSYB104K10					
C 4917	(B,20,78)	CKSSYB104K10					
C 4918	(B,17,68)	CKSSYB474K6R3					
C 4921	(A,36,48)	CKSQYB106K6R3					
C 4922	(A,23,60)	CKSQYB106K6R3					
C 4923	(A,36,50)	CKSQYB106K6R3					
C 4924	(A,24,60)	CKSQYB106K6R3		MISCELLANEOUS			
C 4925	(A,22,52)	CKSSYB333K10					
C 4926	(A,21,53)	CKSSYB104K10					
C 4927	(A,22,53)	CKSSYB103K16					
C 4928	(A,22,55)	CKSSYB104K10					
C 4929	(A,22,54)	CKSSYB104K10					
C 4930	(A,22,50)	CKSSYB104K10					
C 4931	(A,25,56)	CKSSYB104K10					
C 4932	(A,26,60)	CCSSCH4R0C50					
C 4933	(A,27,57)	CKSSYB103K16					
C 4934	(A,28,46)	CKSSYB103K16		IC 5001	(B,51,39) IC	LTC3850IGN	
C 4935	(A,27,58)	CKSSYB104K10		IC 5102	(A,88,68) IC	TC7SET04FUS1	
C 4936	(A,28,47)	CKSSYB104K10		IC 5103	(A,89,72) L-MOS And Gate	TC7SET08FUS1	
C 4937	(A,31,57)	CKSSYB103K16		IC 5104	(A,90,76) IC	BD6538G	
C 4938	(A,31,58)	CKSSYB104K10		IC 5105	(A,119,79) IC	S-1200B33-M5	
C 4939	(A,29,62)	CCSSCH4R0C50		IC 5202	(B,54,82) IC	HA12241FP	
C 4940	(A,33,50)	CKSSYB104K10		IC 5402	(B,91,113) IC	NJM13403V	
C 4941	(A,34,52)	CKSSYB103K16		IC 5403	(B,89,101) IC	NJM2125F	
C 4942	(A,35,52)	CKSSYB104K10		IC 5404	(B,97,101) IC	NJM2125F	
C 4943	(A,19,48)	CKSQYB106K6R3		IC 5407	(A,147,86) IC	CSX1149	
C 4944	(A,21,48)	CKSQYB106K6R3		IC 5451	(B,58,19) IC	NJM2115V	
C 4945	(B,34,24) 47 uF/6.3 V	CCH1852		IC 5501	(B,154,93) IC	ADS7828E	
C 4946	(B,33,29)	CKSSYB103K16		IC 5503	(A,135,99) IC	BH30NB1WHFV	
C 4947	(B,35,26)	CKSQYB106K6R3		IC 5507	(B,86,15) IC	NJM2125F	
C 4948	(B,34,28) 47 uF/6.3 V	CCH1852		Q 5001	(A,41,32) FET	SP8K10S	
C 4963	(B,26,87)	CKSQYB106K6R3		Q 5002	(A,61,33) FET	SP8K10S	
C 4964	(B,21,85)	CKSSYB103K16		Q 5003	(B,40,30) Chip Transistor	DTC114EUA	
C 4965	(B,28,88) 47 uF/6.3 V	CCH1852		Q 5102	(A,124,90) Transistor	2SA1576A	
C 4969	(B,21,30)	CKSRYP104K16		Q 5103	(A,123,86) Transistor	2SC4081	
C 4971	(B,29,39)	CKSSYB103K16		Q 5104	(B,43,73) Transistor	2SD1760F5	
C 4972	(B,34,34)	CKSSYB103K16		Q 5105	(B,52,76) Transistor	UMF23N	
C 4973	(B,29,27)	CKSSYB103K16		Q 5106	(B,75,27) Transistor	2SB1184F5	
C 4979	(A,11,60) 33 uF/10 V	CCH1586		Q 5107	(B,75,41) Digital Transistor	DTC143EUA	
C 4981	(B,27,27)	CCSSCH220J50		Q 5108	(A,119,102) Transistor	2SA1587	
C 4982	(B,21,67) 47 uF/6.3 V	CCH1852		Q 5109	(A,117,97) Chip Transistor	DTC114EUA	
C 4983	(B,21,70)	CKSSYB103K16		Q 5110	(B,124,102) Transistor	IMX1	
C 4984	(B,28,84) 47 uF/6.3 V	CCH1852		Q 5111	(B,117,109) Digital Transistor	DTC143EUA	
C 4985	(B,23,83)	CKSSYB103K16		Q 5112	(B,111,111) Transistor	2SD1760F5	
C 4986	(B,25,83)	CKSQYB106K6R3		Q 5113	(B,117,89) Transistor	2SA1576A	
C 4987	(B,31,75)	CKSQYB106K6R3		Q 5114	(B,123,89) Chip Transistor	DTC114EUA	
C 4988	(A,20,84)	CKSSYB103K16		Q 5115	(B,119,83) Transistor	2SA1577	
				Q 5116	(B,124,82) Chip Transistor	DTC114EUA	
				Q 5201	(A,61,86) Transistor	2SA1576A	
				Q 5202	(B,67,83) Chip Transistor	DTC114EUA	
				Q 5251	(B,82,104) Transistor	IMH23	
				Q 5252	(B,80,109) Transistor	IMD2A	
				Q 5304	(B,120,33) Transistor	2SA1576A	
				D 5001	(B,48,30) Diode	RB160M-40	
				D 5002	(B,54,30) Diode	RB160M-40	
				D 5003	(B,124,108) Diode	RB551V-30	
				D 5004	(B,114,103) Diode	RB551V-30	
				D 5005	(B,116,105) Diode	HZU6R8(B1)	
				D 5006	(B,112,104) Diode	HZU11(B2)	
				D 5007	(A,129,85) Diode	RB551V-30	
				D 5008	(B,125,85) Diode	RB551V-30	

	1	2	3	4
	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
	D 5203 (B,19,110) Diode	UDZS18(B)	JA5302 (A,15,123) Connector	CKS5271
	D 5204 (B,22,110) Diode	EDZ5R6(B)	SN5501 (A,152,91) Sensor	S-58LM20A-N4
A	D 5205 (B,21,110) Diode	EDZ5R6(B)		
	D 5251 (B,63,112) Diode	MALS180X		
	D 5252 (A,68,109) Diode	MALS180X		
	D 5253 (B,67,110) Diode	MALS180X	R 5001 (B,49,45)	RS1/10SR1303D
	D 5254 (B,74,111) Diode	MALS180X	R 5002 (B,43,41)	RS1/16SS100J
	D 5255 (A,72,110) Diode	MALS180X	R 5003 (B,43,43)	RS1/16SS100J
	D 5256 (A,64,110) Diode	1SR154-400	R 5004 (B,47,50)	RS1/10SR682J
	D 5257 (A,82,112) Diode	RSB12JS2	R 5005 (B,51,30)	RS1/10SR2R2J
	D 5258 (B,85,123) Diode	EDZ6R8(B)	R 5006 (B,49,49)	RS1/10SR2402D
	D 5502 (B,144,86) Diode	UDZS5R6(B)	R 5007 (B,52,49)	RS1/10SR6802D
	L 5001 (A,41,42) Choke Coil 6.8 uH CTH1396		R 5008 (B,54,50)	RS1/10SR682J
B	L 5002 (A,60,42) Choke Coil 4.7 uH CTH1399		R 5009 (B,53,45)	RS1/10SR2203D
	L 5003 (A,84,67) Inductor	CTF1306	R 5010 (B,59,42)	RS1/16SS100J
	L 5201 (B,56,76) Inductor	LCYC2R2K1608	R 5011 (B,59,41)	RS1/16SS100J
	L 5251 (A,82,109) Choke Coil 160 mA CTH1319		R 5012 (B,45,28)	RS1/16SS104J
	L 5252 (B,71,105) Inductor	CTF1689	R 5013 (A,41,49) 0.027 ohm	CCN1190
	L 5253 (B,69,105) Inductor	CTF1689	R 5014 (A,59,49) 0.027 ohm	CCN1190
	L 5254 (B,74,105) Inductor	CTF1689	R 5015 (B,46,46)	RS1/10SR0R0J
	L 5310 (A,129,46) Inductor	CTF1736	R 5016 (B,56,46)	RS1/10SR0R0J
	L 5311 (A,129,41) Inductor	CTF1736	R 5017 (B,43,31)	RS1/10SR4R7J
	L 5404 (A,145,93) Inductor	CTF1410	R 5018 (B,58,31)	RS1/10SR2R2J
	L 5501 (A,158,91) Inductor	CTF1410	R 5019 (A,63,61)	RS1/8SQ0R0J
C	L 5502 (A,148,90) Inductor	CTF1410	R 5020 (B,57,40)	RS1/16SS104J
	L 5503 (A,154,92) Inductor	CTF1410	R 5022 (A,56,27)	RS1/8SQ0R0J
	L 5601 (A,81,22) Inductor	CTF1453	R 5025 (B,44,62)	RS1/4SA0R0J
	L 5602 (A,65,20) Inductor	CTH1256	R 5026 (A,51,66)	RS1/4SA0R0J
	L 5603 (A,86,37) Inductor	CTF1393	R 5027 (B,39,62)	RS1/4SA221J
	L 5604 (A,89,35) Inductor	CTF1393	R 5028 (A,54,66)	RS1/4SA221J
	L 5605 (A,84,37) Inductor	CTF1393	R 5029 (B,41,34)	RS1/10SR1501D
	F 5001 (B,39,64) EMI Filter	CCG1267	R 5030 (B,42,36)	RS1/10SR2001D
	F 5002 (A,58,66) EMI Filter	CCG1267	R 5031 (B,39,36)	RS1/10SR2001D
	F 5003 (A,61,27) EMI Filter	CCG1267	R 5032 (B,122,91)	RS1/10SR682J
	F 5005 (B,75,73) Chip EMI Filter	DTF1106	R 5104 (A,123,88)	RS1/10SR682J
D	F 5101 (B,162,71) EMI Filter	CCG1172	R 5105 (A,126,87)	RS1/10SR153J
	F 5102 (B,162,64) EMI Filter	CCG1172	R 5107 (B,50,75)	RS1/10SR103J
	F 5251 (B,70,108) EMI Filter	CCG1067	R 5109 (B,52,69)	RS1/10SR330J
	F 5252 (B,73,108) EMI Filter	CCG1067	R 5110 (B,53,73)	RS1/16SS223J
	F 5253 (B,66,108) EMI Filter	CCG1060	R 5111 (B,53,71)	RS1/8SQ472J
	F 5254 (B,88,122) EMI Filter	CCG1161	R 5113 (B,73,35)	RS1/10SR153J
	F 5255 (A,128,43) Chip EMI Filter	DTF1106	R 5114 (B,76,36)	RS1/4SA331J
	⚠P5001 (A,70,31) Fuse 3.15 A	CEK1259	R 5115 (B,76,38)	RS1/4SA331J
	⚠P5102 (A,41,68) Fuse 1 A	CEK1254	R 5116 (A,120,100)	RS1/16SS103J
	⚠P5103 (A,75,47) Fuse 1.25 A	CEK1255	R 5117 (A,120,98)	RS1/16SS512J
E	⚠P5104 (A,123,104) Fuse 1 A	CEK1254	R 5118 (B,122,106)	RS1/16SS224J
	P 5378 (B,79,115) Poly Switch	MINISMDC020F	R 5119 (B,126,105)	RS1/16SS472J
	GY5501 (A,153,96) IC	CSX1147	R 5120 (B,121,103)	RS1/8SQ102J
	VA5201 (B,13,109) Varistor	AVR-M1608C270KT2AB	R 5121 (B,118,100)	RS1/4SA681J
	VA5202 (B,15,109) Varistor	AVR-M1608C270KT2AB	R 5122 (B,119,108)	RS1/10SR102J
	VA5203 (B,10,110) Varistor	AVR-M1608C270KT2AB	R 5123 (A,90,70)	RS1/16SS0R0J
	VA5204 (B,12,110) Varistor	AVR-M1608C270KT2AB	R 5124 (A,89,71)	RS1/16SS0R0J
	CN5001 (A,103,115) Connector	CKS4822	R 5126 (A,82,68)	RS1/8SQ0R0J
	CN5251 (A,68,124) Connector	CKS5867	R 5128 (B,116,82)	RS1/10SR0R0J
	CN5601 (A,86,8) Connector	CKS6118	R 5131 (A,126,82)	RS1/10SR0R0J
	CN5602 (A,100,50) Connector	CKS6116	R 5132 (B,118,86)	RS1/10SR153J
F	CN5603 (B,151,51) Connector	CKS6123	R 5136 (A,128,32)	RS1/10SR102J
	JA5201 (A,166,113) Connector	CKS5749	R 5140 (B,119,81)	RS1/10SR153J
	JA5202 (A,162,126) Connector	CKS5702	R 5141 (B,122,82)	RS1/10SR681J
	JA5251 (A,90,128) Connector	CKS5589	R 5144 (A,70,24)	RS1/16SS0R0J

RESISTORS

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 5146	(B,126,89)	RS1/10SR0R0J		R 5504	(B,160,95)	RS1/16SS202J	
R 5150	(A,74,27)	RS1/4SA682J		R 5511	(B,149,96)	RS1/16SS471J	
R 5151	(A,128,90)	RS1/10SR6800D		R 5516	(B,151,96)	RS1/16SS101J	A
R 5152	(A,127,90)	RS1/10SR6800D		R 5519	(B,145,93)	RS1/10SR3900D	
R 5153	(A,120,86)	RS1/16SS473J		R 5521	(B,157,82)	RS1/10SR222J	
R 5154	(A,119,88)	RS1/16SS393J		R 5522	(B,157,83)	RS1/10SR222J	
R 5209	(B,63,83)	RS1/10SR332J		R 5523	(A,150,97)	RS1/16SS153J	
R 5210	(B,65,83)	RS1/10SR682J		R 5524	(A,150,99)	RS1/16SS153J	
R 5211	(A,60,92)	RS1/10SR222J		R 5525	(B,147,88)	RS1/10SR0R0J	
R 5214	(B,65,80)	RS1/10SR0R0J		R 5526	(B,153,86)	RS1/16SS0R0J	
R 5216	(B,49,79)	RS1/10SR101J		R 5527	(B,154,87)	RS1/16SS0R0J	
R 5218	(B,45,81)	RS1/4SA680J		R 5528	(A,139,96)	RS1/10SR0R0J	
R 5220	(B,43,81)	RS1/4SA680J		R 5529	(A,138,92)	RS1/10SR0R0J	
R 5222	(B,59,81)	RS1/16SS103J		R 5533	(A,137,103)	RS1/10SR471J	B
R 5223	(B,49,82)	RS1/10SR101J		R 5601	(A,92,65)	RS1/16SS331J	
R 5224	(B,58,85)	RS1/16SS681J		R 5603	(A,111,73)	RS1/16SS0R0J	
R 5225	(B,59,85)	RS1/16SS101J		R 5604	(B,72,16)	RS1/16SS0R0J	
R 5226	(B,47,81)	RS1/4SA680J		R 5605	(B,68,12)	RS1/16SS0R0J	
R 5227	(B,36,82)	RS1/4SA680J		R 5606	(B,160,33)	RS1/16SS0R0J	
R 5253	(B,81,101)	RS1/10SR0R0J		R 5607	(B,144,67)	RS1/16SS0R0J	
R 5359	(B,124,33)	RS1/10SR0R0J		R 5608	(B,159,31)	RS1/16SS0R0J	
R 5360	(B,120,36)	RS1/16SS103J		R 5609	(B,140,64)	RS1/16SS0R0J	
R 5361	(B,123,34)	RS1/16SS102J		R 5610	(B,136,50)	RS1/16SS0R0J	
R 5362	(B,117,35)	RS1/16SS103J		R 5611	(B,134,50)	RS1/16SS0R0J	
R 5401	(B,91,106)	RS1/10SR333J		R 5612	(B,134,52)	RS1/16SS0R0J	C
R 5402	(B,92,103)	RS1/10SR683J		R 5613	(B,136,52)	RS1/16SS0R0J	
R 5403	(B,93,103)	RS1/10SR154J		R 5614	(B,134,53)	RS1/16SS0R0J	
R 5404	(B,92,97)	RS1/10SR101J		R 5615	(B,136,53)	RS1/16SS0R0J	
R 5405	(B,97,91)	RS1/8SQ0R0J		R 5616	(B,141,54)	RS1/16SS0R0J	
R 5409	(A,97,106)	RS1/10SR393J		R 5617	(B,136,55)	RS1/16SS0R0J	
R 5410	(A,96,109)	RS1/10SR393J		R 5618	(B,134,54)	RS1/16SS0R0J	
R 5411	(A,88,116)	RS1/10SR102J		R 5619	(B,140,40)	RS1/16SS0R0J	
R 5412	(B,88,120)	RS1/10SR102J		R 5620	(B,162,50)	RS1/16SS0R0J	
R 5413	(A,93,117)	RS1/10SR683J		R 5621	(B,161,50)	RS1/16SS0R0J	
R 5414	(A,89,116)	RS1/10SR153J		R 5622	(A,158,43)	RS1/16SS0R0J	
R 5415	(B,92,109)	RS1/10SR0R0J		R 5623	(B,142,30)	RS1/16SS0R0J	D
R 5416	(B,97,111)	RS1/10SR682J		R 5624	(B,161,31)	RS1/16SS0R0J	
R 5417	(B,99,114)	RS1/10SR124J		R 5625	(B,144,30)	RS1/16SS0R0J	
R 5418	(B,100,111)	RS1/10SR473J		R 5626	(B,144,34)	RS1/16SS0R0J	
R 5419	(B,98,109)	RS1/10SR101J		R 5627	(B,142,34)	RS1/16SS0R0J	
R 5420	(B,86,115)	RS1/10SR683J		R 5628	(A,86,18)	RS1/16SS0R0J	
R 5421	(B,98,106)	RS1/10SR333J		R 5629	(A,85,18)	RS1/16SS0R0J	
R 5422	(B,99,103)	RS1/10SR683J		R 5630	(A,87,18)	RS1/16SS0R0J	
R 5423	(B,101,103)	RS1/10SR154J		R 5631	(B,84,12)	RS1/16SS0R0J	
R 5424	(B,98,97)	RS1/10SR101J		R 5632	(B,82,12)	RS1/16SS0R0J	
R 5426	(B,86,109)	RS1/10SR473J		R 5634	(A,89,15)	RS1/16SS0R0J	E
R 5427	(B,88,106)	RS1/10SR101J		R 5635	(A,91,15)	RS1/16SS0R0J	
R 5428	(B,86,111)	RS1/10SR153J		R 5636	(A,90,15)	RS1/16SS0R0J	
R 5453	(B,62,16)	RS1/16SS153J		R 5637	(B,86,13)	RS1/16SS0R0J	
R 5454	(B,65,18)	RS1/16SS153J		R 5638	(B,88,12)	RS1/16SS0R0J	
R 5455	(B,60,16)	RS1/10SR473J		R 5639	(A,88,18)	RS1/16SS0R0J	
R 5456	(B,64,15)	RS1/10SR473J		R 5641	(A,85,50)	RS1/16SS820J	
R 5457	(B,55,16)	RS1/10SR103J		R 5642	(A,112,63)	RS1/16SS0R0J	
R 5458	(B,64,20)	RS1/10SR103J		R 5645	(A,109,48)	RS1/16SS0R0J	
R 5475	(B,132,67)	RS1/10SR0R0J		R 5646	(A,111,49)	RS1/16SS0R0J	
R 5476	(B,132,69)	RS1/10SR0R0J		R 5647	(A,108,61)	RS1/16SS0R0J	F
R 5481	(B,132,65)	RS1/10SR0R0J		R 5648	(A,110,61)	RS1/16SS0R0J	
R 5501	(B,160,88)	RS1/16SS0R0J		R 5650	(A,111,50)	RS1/16SS0R0J	
R 5502	(B,161,89)	RS1/16SS0R0J		R 5651	(A,109,57)	RS1/16SS0R0J	
R 5503	(B,160,92)	RS1/16SS202J		R 5653	(A,114,57)	RS1/16SS0R0J	

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

	R 5655 (A,117,56)	RS1/16SS0R0J	C 5112 (A,74,25)	CKSQYB104K50
	R 5656 (A,118,55)	RS1/16SS0R0J	C 5113 (A,76,35)	CKSQYB104K50
A	R 5659 (A,116,55)	RS1/16SS0R0J	C 5114 (A,76,40)	CEVW101M16
	R 5660 (A,111,54)	RS1/16SS0R0J	C 5115 (B,125,106)	CKSRYB472K50
	R 5661 (A,109,54)	RS1/16SS0R0J	C 5116 (B,122,108)	CKSRYB104K16
	R 5662 (A,111,53)	RS1/16SS0R0J	C 5117 (B,110,104)	CKSSYB103K16
	R 5663 (A,86,51)	RS1/16SS151J	C 5118 (A,114,105)	CEVW470M16
	R 5664 (A,84,53)	RS1/16SS0R0J	C 5119 (A,108,113)	CKSSYB103K16
	R 5665 (A,111,52)	RS1/16SS0R0J	C 5120 (A,105,105)	CEVW101M16
	R 5666 (A,85,52)	RS1/16SS0R0J	C 5121 (B,164,68)	CKSRYB104K50
	R 5667 (A,113,45)	RS1/16SS0R0J	C 5122 (B,165,60)	CKSRYB104K50
	R 5668 (A,111,44)	RS1/16SS0R0J	C 5123 (A,86,66)	CKSSYB104K10
	R 5669 (A,115,34)	RS1/16SS0R0J	C 5124 (A,87,72)	CKSSYB104K10
B	R 5670 (A,111,43)	RS1/16SS0R0J	C 5125 (A,82,78)	CEVW101M16
	R 5671 (A,112,40)	RS1/16SS0R0J	C 5126 (A,86,77)	CKSRYB103K50
	R 5672 (A,115,37)	RS1/16SS331J	C 5129 (B,74,71)	CKSRYB103K50
	R 5673 (A,113,46)	RS1/16SS101J	C 5130 (B,74,75)	CKSRYB104K16
	R 5674 (A,111,45)	RS1/16SS101J	C 5131 (A,86,74)	CKSRYB103K50
	R 5675 (A,115,35)	RS1/16SS0R0J	C 5132 (A,51,31) 100 uF/16 V	CCH1565
	R 5676 (A,117,35)	RS1/16SS0R0J	C 5133 (B,115,86)	CKSQYB103K50
	R 5677 (A,114,40)	RS1/16SS0R0J	C 5134 (A,129,124) 330 uF/10 V	CCH1623
	R 5678 (A,113,44)	RS1/16SS0R0J	C 5137 (A,124,82)	CKSQYB105K16
	R 5679 (A,113,42)	RS1/16SS221J	C 5138 (A,122,82)	CKSSYB104K10
	R 5680 (A,116,42)	RS1/16SS221J	C 5139 (A,116,75)	CKSQYB106K6R3
C	R 5682 (A,117,38)	RS1/16SS0R0J	C 5140 (A,118,75)	CKSSYB104K10
	R 5689 (A,84,42)	RS1/16SS0R0J	C 5141 (B,122,85)	CKSQYB103K50
	R 5693 (A,143,55)	RS1/10SR0R0J	C 5149 (A,119,86)	CKSRYB105K10
	R 5694 (A,109,47)	RS1/16SS0R0J	C 5212 (B,17,110)	CKSRYB104K50
	R 5698 (B,118,49)	RS1/16SS182J	C 5214 (B,57,78)	CKSSYB472K16
	R 5711 (B,86,37)	RS1/10SR0R0J	C 5340 (B,85,122)	CKSRYB104K50
	R 5714 (B,45,40)	RS1/16SS104J	C 5344 (B,118,36)	CKSSYB104K10

CAPACITORS

D	C 5001 (B,56,45)	CKSRYB152K50	C 5410 (A,96,103) 10 uF	DCH1201
	C 5002 (B,45,42)	CCSRCH102J50	C 5411 (A,98,103) 10 uF	DCH1201
	C 5003 (B,44,35)	CKSRYB104K50	C 5412 (A,94,109)	CKSRYB105K10
	C 5004 (B,49,46)	CCSRCH330J50	C 5413 (B,85,113)	CCSRCH471J50
	C 5005 (B,48,48)	CCSRCH221J50	C 5414 (B,85,111)	CCSRCH821J50
	C 5006 (B,46,49)	CCSRCH681J50	C 5415 (A,89,119)	CKSRYB473K50
	C 5007 (B,52,33)	CKSQYB475K10	C 5416 (A,91,118)	CKSRYB473K50
	C 5008 (B,50,33)	CKSRYB104K50	C 5417 (B,90,110)	CKSRYB104K16
	C 5009 (B,55,49)	CCSRCH681J50	C 5418 (B,96,110)	CKSRYB104K16
	C 5010 (B,54,48)	CCSRCH471J50	C 5419 (B,99,113)	CCSRCH331J50
	C 5011 (B,57,34)	CKSRYB104K50	C 5420 (B,98,111)	CKSRYB152K50
	C 5012 (B,53,46)	CCSRCH220J50	C 5421 (B,97,106)	CKSRYB105K10
E	C 5013 (B,57,42)	CCSRCH102J50	C 5422 (B,97,104)	CCSRCH471J50
	C 5014 (B,46,45)	CKSRYB273K25	C 5423 (B,99,101)	CCSRCH680J50
	C 5015 (A,45,52) 68 uF/10 V	CCH1635	C 5424 (B,94,91)	CKSRYB105K10
	C 5016 (A,55,52) 68 uF/10 V	CCH1635	C 5429 (B,89,106)	CKSRYB105K10
	C 5017 (A,44,49) 10 uF	DCH1201	C 5430 (B,89,109)	CKSRYB104K16
	C 5018 (A,56,49) 10 uF	DCH1201	C 5433 (B,95,101)	CKSRYB104K16
	C 5020 (A,45,29) 10 uF	CCG1223	C 5434 (B,90,117) 22 uF	CCG1178
	C 5021 (A,56,32) 10 uF	CCG1223	C 5451 (B,67,16)	CKSQYB475K10
	C 5106 (A,121,90)	CKSQYB103K50	C 5452 (B,67,19)	CKSQYB475K10
	C 5107 (A,56,73)	CKSQYB104K50	C 5453 (B,57,16)	CCSRCH391J50
F	C 5108 (A,51,75)	CEVW101M16	C 5454 (B,64,21)	CCSRCH391J50
	C 5110 (A,41,74)	CEVW101M16	C 5455 (B,52,16)	CCSRCH221J50
	C 5111 (A,74,20)	CEVW101M16	C 5456 (B,63,18)	CCSRCH221J50

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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 5460	(B,57,22)	CKSRYB104K16		Q 3100	(B,99,65) Transistor	2SC4617	
C 5471	(B,87,49)	CKSQYB475K10		Q 3101	(B,99,59) Transistor	2SC4617	
C 5472	(B,85,50)	CKSQYB475K10		Q 3102	(B,103,66) Transistor	2SC4617	
C 5501	(B,160,94)	CKSSYB104K10		Q 3103	(B,99,68) Transistor	2SC4617	
C 5502	(B,157,97)	CKSRYB104K16		Q 3106	(A,131,63) FET	SP8K22	
C 5503	(B,157,89)	CKSRYB104K16		Q 3200	(A,19,46) Transistor	2SC4617	
C 5504	(B,157,87)	CKSQYB106K6R3		Q 3201	(A,26,49) Transistor	2SA1774	
C 5505	(B,150,89)	CKSSYB104K10		Q 3202	(A,27,45) Transistor	2SC4617	
C 5508	(B,147,92)	CKSSYB104K10		Q 3203	(A,22,49) Transistor	2SA1774	
C 5509	(B,147,93)	CKSSYB104K10		Q 3300	(A,75,18) Transistor	UMZ1N	
C 5510	(B,148,95)	CKSSYB104K10		Q 3301	(A,75,20) Transistor	UMZ1N	
C 5511	(A,148,99)	CKSSYB105K6R3		Q 3302	(A,66,16) Transistor	UMZ1N	
C 5512	(A,148,97)	CKSSYB105K6R3		Q 3303	(A,66,19) Transistor	UMZ1N	
C 5513	(A,154,93)	CKSSYB104K10		Q 3304	(A,66,25) Transistor	UMZ1N	
C 5514	(A,150,92)	CKSSYB104K10		Q 3305	(A,66,22) Transistor	UMZ1N	
C 5515	(A,153,81)	CKSRYB154K10		Q 3360	(B,85,32) Transistor	DTC114EE	
C 5516	(A,153,84)	CKSRYB154K10		D 3001	(B,120,38) Diode	RB160M-30	
C 5517	(A,153,86) 2.2 uF	CCG1205		D 3002	(B,102,20) Diode	RB500V-40	
C 5518	(A,145,90)	CKSQYB106K6R3		D 3003	(B,106,20) Diode	RB500V-40	
C 5519	(A,146,89)	CKSSYB104K10		D 3004	(B,104,20) Diode	RB500V-40	
C 5520	(A,135,101)	CKSSYB104K10		D 3005	(B,109,18) Diode	RB500V-40	
C 5521	(A,135,102)	CKSQYB106K6R3		D 3006	(B,107,42) Diode	RB160M-30	
C 5523	(A,137,95)	CKSQYB106K6R3		D 3007	(B,101,36) Diode	RB500V-40	
C 5524	(A,135,96)	CKSSYB104K10		D 3008	(B,97,41) Diode	RB548W	
C 5525	(B,151,98)	CKSSYB104K10		D 3009	(B,99,41) Diode	RB548W	
C 5526	(B,83,15)	CKSRYB104K16		D 3010	(B,88,17) Diode	RB548W	
C 5601	(A,82,18) 10 uF	CCG1223		D 3011	(B,91,17) Diode	RB548W	
C 5603	(A,54,19)	CEVW101M16		D 3012	(B,93,17) Diode	RB548W	
C 5604	(A,46,19)	CEVW101M16		D 3100	(B,108,64) Diode	UDZS6R8(B)	
C 5615	(A,92,42)	CKSRYB104K16		D 3101	(B,95,67) Diode	RB500V-40	
C 5616	(A,90,37)	CKSRYB104K16		D 3102	(B,108,61) Diode	RB500V-40	
C 5617	(B,88,43)	CKSRYB104K16		D 3103	(B,108,57) Diode	RB500V-40	
C 5623	(B,110,40)	CKSRYB104K16		D 3105	(A,139,50) Diode	RB160VA-40	
C 5624	(B,109,42)	CKSRYB104K16		L 3001	(B,130,50) Choke Coil 18 uH	CTH1250	
C 5626	(A,125,42)	CKSRYB104K16		L 3002	(B,126,26) Inductor	CTF1635	
				L 3003	(B,125,38) Choke Coil 68 uH	CTH1318	
				L 3004	(B,111,45) Choke Coil 68 uH	CTH1318	
				L 3005	(B,112,49) Inductor	CTF1635	
				L 3006	(B,95,45) Inductor	DTL1096	
				L 3007	(B,96,15) Inductor	CTF1635	
				L 3100	(B,104,60) Inductor	CTF1306	
				L 3101	(A,137,55) Choke Coil 56 uH	CTH1394	
				L 3150	(A,54,48) Inductor	CTF1731	
				L 3151	(A,48,53) Inductor	CTF1306	
				L 3152	(A,47,41) Inductor	CTF1306	
				L 3153	(A,44,37) Inductor	CTF1748	
				L 3154	(A,43,37) Inductor	CTF1748	
				L 3155	(A,43,59) Inductor	CTF1734	
				L 3156	(A,42,36) Inductor	CTF1748	
				L 3157	(A,42,59) Inductor	CTF1734	
				L 3158	(A,40,37) Inductor	CTF1748	
				L 3159	(A,41,59) Inductor	CTF1734	
				L 3160	(A,39,38) Inductor	CTF1748	
				L 3161	(A,38,58) Inductor	CTF1734	
				L 3162	(A,38,37) Inductor	CTF1748	
				L 3163	(A,37,58) Inductor	CTF1734	
				L 3164	(A,37,38) Inductor	CTF1748	
				L 3165	(A,36,58) Inductor	CTF1748	
				L 3166	(A,36,37) Inductor	CTF1748	
				L 3167	(A,31,55) Inductor	CTF1748	



Unit Number : CWN3935

Unit Name : Monitor Unit

MISCELLANEOUS

IC 3001	(B,108,28) IC	BD6171KV		L 3101	(A,137,55) Choke Coil 56 uH	CTH1394	
IC 3100	(B,103,63) IC	TC7SH08FUS1		L 3150	(A,54,48) Inductor	CTF1731	
IC 3101	(B,103,57) IC	TC7SH08FUS1		L 3151	(A,48,53) Inductor	CTF1306	
IC 3102	(A,117,64) IC	BD8113EFV		L 3152	(A,47,41) Inductor	CTF1306	
IC 3150	(A,41,48) IC	DS90C124QVS		L 3153	(A,44,37) Inductor	CTF1748	
IC 3151	(A,31,48) IC	TC7SZ08FU		L 3154	(A,43,37) Inductor	CTF1748	
IC 3200	(A,23,64) IC	NJM2100V		L 3155	(A,43,59) Inductor	CTF1734	
IC 3201	(A,30,60) IC	TC7S66FU		L 3156	(A,42,36) Inductor	CTF1748	
IC 3202	(A,24,54) IC	NJM082BV		L 3157	(A,42,59) Inductor	CTF1734	
IC 3203	(A,33,62) IC	TC7WT240FU		L 3158	(A,40,37) Inductor	CTF1748	
IC 3204	(B,60,38) Logic IC	TC74VHCT04AFTS1		L 3159	(A,41,59) Inductor	CTF1734	
IC 3300	(A,72,30) IC	BH2227AFV		L 3160	(A,39,38) Inductor	CTF1748	
IC 3360	(B,86,53) IC	AK4388VT		L 3161	(A,38,58) Inductor	CTF1734	
IC 3362	(B,82,35) IC	TC7SH08FUS1		L 3162	(A,38,37) Inductor	CTF1748	
Q 3001	(B,117,37) FET	RSQ035P03		L 3163	(A,37,58) Inductor	CTF1734	
Q 3002	(B,104,42) FET	RSQ035P03		L 3164	(A,37,38) Inductor	CTF1748	
Q 3003	(B,95,22) Transistor	2SA1577		L 3165	(A,36,58) Inductor	CTF1748	
Q 3004	(B,97,19) Transistor	2SC4097		L 3166	(A,36,37) Inductor	CTF1748	
Q 3005	(B,95,32) Transistor	DTC114EE		L 3167	(A,31,55) Inductor	CTF1748	

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

L 3168	(A,40,58) Inductor	CTF1306	R 3007	(B,128,31)	RS1/10SR82R0D
L 3169	(A,40,62) Inductor	CTF1736	R 3008	(B,123,31)	RS1/10SR3300D
L 3170	(A,35,40) Inductor	CTF1748	R 3009	(B,126,34)	RS1/10SR102J
L 3171	(A,34,40) Inductor	CTF1748	R 3010	(B,122,30)	RS1/10SR102J
L 3172	(A,33,40) Inductor	CTF1748	R 3011	(B,118,29)	RS1/10SR104J
L 3173	(A,32,40) Inductor	CTF1748	R 3012	(B,122,33)	RS1/10SR333J
L 3174	(A,30,43) Inductor	CTF1734	R 3013	(B,118,30)	RS1/16SS331J
L 3175	(A,31,51) Inductor	CTF1748	R 3014	(B,117,25)	RS1/10SR2001D
L 3176	(A,30,52) Inductor	CTF1748	R 3015	(B,118,25)	RS1/10SR3900D
L 3177	(A,31,53) Inductor	CTF1748	R 3016	(B,120,25)	RS1/10SR1000D
L 3178	(A,31,54) Inductor	CTF1748	R 3017	(B,112,40)	RS1/10SR273J
L 3179	(A,49,43) Inductor	CTF1306	R 3018	(B,114,37)	RS1/10SR150J
L 3180	(A,34,47) Inductor	CTF1306	R 3019	(B,103,37)	RS1/10SR150J
L 3200	(A,30,64) Inductor	CTF1306	R 3020	(B,108,36)	RS1/10SR563J
L 3202	(A,26,57) Inductor	LCTAW101J2520	R 3021	(B,100,15)	RS1/10SR1002D
L 3203	(A,19,50) Inductor	LCTAW101J2520	R 3022	(B,101,31)	RS1/10SR6202D
L 3205	(A,31,67) Inductor	CTF1306	R 3023	(B,99,17)	RS1/10SR1802D
L 3206	(B,62,46) Inductor	CTF1635	R 3024	(B,96,16)	RS1/10SR2202D
L 3207	(B,55,34) Inductor	CTF1306	R 3025	(B,98,35)	RS1/10SR1802D
L 3208	(B,62,34) Inductor	CTF1306	R 3026	(B,97,33)	RS1/10SR8200D
L 3300	(A,127,16) Ferrite Bead	CTF1528	R 3027	(B,99,24)	RS1/16SS470J
L 3301	(A,128,16) Ferrite Bead	CTF1528	R 3028	(B,99,23)	RS1/16SS470J
L 3302	(A,111,18) Ferrite Bead	CTF1528	R 3030	(B,96,38)	RS1/10SR3303D
L 3303	(A,112,16) Ferrite Bead	CTF1528	R 3031	(B,96,50)	RS1/10SR203J
L 3304	(A,86,56) Inductor	CTF1488	R 3034	(B,95,35)	RS1/10SR2703D
L 3305	(A,77,36) Chip Coil	LCTAW100J2520	R 3100	(B,97,67)	RS1/16SS222J
L 3310	(A,64,57) Inductor	CTF1635	R 3101	(B,100,61)	RS1/16SS222J
L 3360	(B,94,58) Inductor	LCTAW2R7J2520	R 3102	(B,100,55)	RS1/16SS222J
L 3361	(A,80,32) Inductor	CTF1394	R 3104	(A,108,62)	RS1/16SS473J
L 3362	(B,79,33) Inductor	CTF1306	R 3105	(B,100,56)	RS1/16SS472J
L 3401	(A,21,39) Inductor	DTL1096	R 3106	(B,97,59)	RS1/16SS101J
L 3402	(A,12,35) Inductor	DTL1096	R 3107	(B,105,65)	RS1/16SS103J
L 3403	(A,22,43) Inductor	CTF1635	R 3108	(B,105,67)	RS1/16SS473J
L 3404	(A,14,42) Inductor	CTF1635	R 3109	(B,100,62)	RS1/16SS472J
TH3350	(A,65,5) Thermistor	CCX1084	R 3110	(A,108,63)	RS1/16SS473J
VA3300	(A,126,18) Varistor	AVR-M1608C120MT6AB	R 3111	(B,97,65)	RS1/16SS101J
VA3301	(A,128,20) Varistor	AVR-M1608C120MT6AB	R 3112	(B,102,69)	RS1/16SS223J
VA3302	(A,113,19) Varistor	AVR-M1608C120MT6AB	R 3113	(A,111,63)	RS1/16SS470J
VA3303	(A,114,16) Varistor	AVR-M1608C120MT6AB	R 3114	(A,111,62)	RS1/16SS470J
VA3305	(A,88,19) Varistor	AVR-M1608C120MT6AB	R 3115	(B,98,63)	RS1/16SS104J
VA3307	(A,90,19) Varistor	AVR-M1608C120MT6AB	R 3116	(B,98,57)	RS1/16SS224J
VA3308	(A,87,19) Varistor	AVR-M1608C120MT6AB	R 3117	(B,101,68)	RS1/16SS101J
VA3310	(A,84,18) Varistor	AVR-M1608C120MT6AB	R 3118	(B,96,68)	RS1/16SS273J
CN3100	(A,136,38) Connector	CKS5715	R 3119	(B,105,63)	RS1/16SS102J
CN3300	(A,120,14) Connector	CKS5105	R 3120	(B,105,57)	RS1/16SS102J
CN3301	(A,68,69) Connector	CKS6118	R 3122	(B,114,61)	RS1/16SS0R0J
CN3302	(A,88,12) Connector	CKS5501	R 3123	(B,117,66)	RS1/10SR225J
CN3360	(A,88,35) Connector	CKS6117	R 3124	(A,109,65)	RS1/10SR1003D
CN3361	(A,106,8) Connector	CKS5749	R 3125	(B,113,69)	RS1/10SR392J
CN3362	(A,106,14) Connector	CKS5749	R 3126	(B,126,62)	RS1/10SR1203D
CN3401	(A,33,30) Connector	CKS5773	R 3128	(A,124,65)	RS1/10SR150J
R 3001	(B,131,29)	RS1/10SR0R0J	R 3129	(B,126,60)	RS1/10SR0R0J
R 3002	(B,129,28)	RS1/10SR6801D	R 3130	(A,119,73)	RS1/4S1R0J
R 3003	(B,125,29)	RS1/10SR2000D	R 3131	(A,115,73)	RS1/4S1R0J
R 3004	(B,125,28)	RS1/10SR1001D	R 3133	(A,113,71)	RS1/16SS0R0J
R 3005	(B,130,36)	RS1/10SR0R0J	R 3134	(B,123,58)	RS1/10SR3602D
R 3006	(B,129,32)	RS1/10SR1001D	R 3135	(B,122,59)	RS1/10SR1801D
			R 3136	(A,126,72)	RS1/8SQ0R0J
			R 3137	(B,124,66)	RS1/10SR0R0J
			R 3150	(A,47,48)	RS1/16SS1000D

RESISTORS

R 3001	(B,131,29)	RS1/10SR0R0J	R 3133	(A,113,71)	RS1/16SS0R0J
R 3002	(B,129,28)	RS1/10SR6801D	R 3134	(B,123,58)	RS1/10SR3602D
R 3003	(B,125,29)	RS1/10SR2000D	R 3135	(B,122,59)	RS1/10SR1801D
R 3004	(B,125,28)	RS1/10SR1001D	R 3136	(A,126,72)	RS1/8SQ0R0J
R 3005	(B,130,36)	RS1/10SR0R0J	R 3137	(B,124,66)	RS1/10SR0R0J
R 3006	(B,129,32)	RS1/10SR1001D			
			R 3150	(A,47,48)	RS1/16SS1000D

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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 3151	(A,45,55)	RS1/16SS103J	RS1/16SS103J	R 3327	(A,71,16)	RS1/10SR2400D	RS1/10SR2000D
R 3152	(A,44,57)	RS1/16SS103J	RS1/16SS103J	R 3328	(A,69,19)	RS1/10SR2400D	RS1/10SR2400D
R 3153	(A,50,52)	RS1/16SS103J	RS1/16SS103J	R 3329	(A,71,19)	RS1/10SR2400D	RS1/10SR333J
R 3154	(A,43,55)	RS1/16SS103J	RS1/16SS103J	R 3330	(A,70,24)	RS1/10SR2000D	RS1/10SR2400D
R 3156	(B,47,32)	RS1/16SS0R0J	RS1/16SS181J	R 3331	(A,63,25)	RS1/10SR2000D	RS1/10SR2000D
R 3157	(A,44,39)	RS1/16SS151J	RS1/16SS151J	R 3332	(A,62,25)	RS1/10SR2000D	RS1/10SR2000D
R 3158	(A,43,39)	RS1/16SS151J	RS1/16SS151J	R 3333	(A,63,22)	RS1/10SR2400D	RS1/10SR2400D
R 3159	(A,43,57)	RS1/16SS151J	RS1/16SS151J	R 3334	(A,62,22)	RS1/10SR333J	RS1/10SR333J
R 3160	(A,42,38)	RS1/16SS151J	RS1/16SS151J	R 3335	(A,68,28)	RS1/16SS0R0J	RS1/16SS0R0J
R 3161	(A,42,57)	RS1/16SS151J	RS1/16SS151J	R 3336	(A,66,56)	RS1/16SS0R0J	RS1/16SS0R0J
R 3162	(A,40,39)	RS1/16SS151J	RS1/16SS151J	R 3337	(A,67,56)	RS1/16SS0R0J	RS1/16SS0R0J
R 3163	(A,41,57)	RS1/16SS151J	RS1/16SS151J	R 3338	(A,68,56)	RS1/16SS0R0J	RS1/16SS0R0J
R 3164	(B,22,33)	RS1/16SS0R0J	RS1/16SS151J	R 3339	(A,77,40)	RS1/16SS183J	RS1/16SS221J
R 3166	(A,39,40)	RS1/16SS151J	RS1/16SS151J	R 3350	(A,68,6)	RS1/16SS221J	RS1/16SS221J
R 3167	(A,38,56)	RS1/16SS151J	RS1/16SS151J	R 3360	(B,83,64)	RS1/16SS223J	RS1/16SS223J
R 3168	(A,38,39)	RS1/16SS151J	RS1/16SS151J	R 3361	(B,86,65)	RS1/16SS223J	RS1/16SS223J
R 3169	(A,37,56)	RS1/16SS151J	RS1/16SS151J	R 3362	(B,84,63)	RS1/16SS103J	RS1/16SS103J
R 3170	(A,37,40)	RS1/16SS151J	RS1/16SS151J	R 3363	(B,86,63)	RS1/16SS470J	RS1/16SS470J
R 3171	(A,36,56)	RS1/16SS151J	RS1/16SS151J	R 3364	(B,83,47)	RS1/16SS470J	RS1/16SS470J
R 3172	(A,36,39)	RS1/16SS151J	RS1/16SS151J	R 3365	(B,83,51)	RS1/16SS470J	RS1/16SS470J
R 3173	(A,33,55)	RS1/16SS151J	RS1/16SS151J	R 3366	(A,83,42)	RS1/16SS470J	RS1/16SS470J
R 3175	(A,35,42)	RS1/16SS151J	RS1/16SS151J	R 3367	(B,83,52)	RS1/16SS470J	RS1/16SS470J
R 3176	(A,34,42)	RS1/16SS151J	RS1/16SS151J	R 3368	(A,84,43)	RS1/16SS470J	RS1/16SS470J
R 3177	(A,33,42)	RS1/16SS151J	RS1/16SS151J	R 3369	(A,82,41)	RS1/16SS470J	RS1/16SS470J
R 3178	(A,32,42)	RS1/16SS151J	RS1/16SS820J	R 3371	(B,93,40)	RS1/16SS473J	RS1/16SS473J
R 3179	(A,33,49)	RS1/16SS151J	RS1/16SS151J	R 3372	(B,92,38)	RS1/16SS470J	RS1/16SS470J
R 3180	(A,32,51)	RS1/16SS151J	RS1/16SS151J	R 3373	(B,85,47)	RS1/16SS103J	RS1/16SS103J
R 3181	(A,32,52)	RS1/16SS151J	RS1/16SS151J	R 3374	(B,84,47)	RS1/16SS470J	RS1/16SS470J
R 3182	(A,33,53)	RS1/16SS151J	RS1/16SS151J	R 3375	(B,92,37)	RS1/16SS470J	RS1/16SS470J
R 3183	(A,33,54)	RS1/16SS151J	RS1/16SS470J	R 3376	(B,82,40)	RS1/16SS0R0J	RS1/16SS0R0J
R 3185	(A,30,45)	RS1/16SS470J	RS1/10SR5102D	R 3377	(B,84,36)	RS1/16SS0R0J	RS1/16SS0R0J
R 3200	(A,25,68)	RS1/10SR5102D	RS1/10SR3602D	R 3378	(A,78,33)	RS1/16SS223J	RS1/16SS223J
R 3201	(A,27,68)	RS1/10SR3602D	RS1/16SS103J	R 3380	(A,83,37)	RS1/16SS0R0J	RS1/16SS0R0J
R 3202	(A,21,70)	RS1/16SS103J	RS1/16SS104J	R 3382	(A,83,31)	RS1/16SS0R0J	RS1/16SS0R0J
R 3204	(A,22,68)	RS1/16SS104J	RS1/10SR6801D	R 3383	(A,83,30)	RS1/16SS0R0J	RS1/16SS0R0J
R 3205	(A,24,61)	RS1/10SR6801D	RS1/10SR1002D	R 3386	(B,87,33)	RS1/10SR18R0D	RS1/10SR18R0D
R 3206	(A,21,61)	RS1/10SR1002D	RS1/16SS101J	R 3401	(B,52,34)	RS1/10SR24R0D	RS1/10SR24R0D
R 3207	(A,27,61)	RS1/16SS101J	RS1/16SS101J	R 3402	(B,52,36)	RS1/10SR1000D	RS1/10SR1000D
R 3208	(A,24,59)	RS1/16SS101J	RS1/16SS223J	R 3403	(B,52,37)	RS1/10SR91R0D	RS1/10SR1000D
R 3209	(A,22,60)	RS1/16SS223J	RS1/16SS472J	R 3404	(B,54,40)	RS1/10SR30R0D	RS1/10SR47R0D
R 3210	(A,29,58)	RS1/16SS472J	RS1/16SS101J	R 3405	(B,53,40)	RS1/10SR47R0D	RS1/10SR47R0D
R 3211	(A,21,59)	RS1/16SS101J	RS1/10SR5602D	R 3406	(B,51,40)	RS1/10SR47R0D	RS1/10SR47R0D
R 3212	(A,22,57)	RS1/10SR5602D	RS1/10SR4703D	R 3407	(B,54,43)	RS1/10SR27R0D	RS1/10SR91R0D
R 3213	(A,19,54)	RS1/10SR4703D	RS1/10SR3302D	R 3408	(B,56,43)	RS1/10SR1000D	RS1/10SR1000D
R 3214	(A,23,51)	RS1/10SR3302D	RS1/16SS0R0J	R 3409	(B,57,43)	RS1/10SR1000D	RS1/10SR75R0D
R 3215	(A,34,58)	RS1/16SS0R0J	RS1/16SS153J	R 3410	(B,56,47)	RS1/16SS0R0J	RS1/16SS0R0J
R 3217	(A,28,48)	RS1/16SS153J	RS1/16SS153J	R 3411	(B,57,47)	RS1/16SS473J	RS1/16SS473J
R 3218	(A,21,49)	RS1/16SS153J	RS1/16SS0R0J	R 3412	(B,59,47)	RS1/16SS0R0J	RS1/16SS0R0J
R 3219	(A,27,47)	RS1/16SS0R0J	RS1/16SS0R0J	R 3414	(A,38,36)	RS1/16SS473J	RS1/16SS473J
R 3220	(A,22,47)	RS1/16SS0R0J	RS1/10SR100J	R 3416	(B,30,35)	RS1/16SS0R0J	RS1/16SS0R0J
R 3221	(A,25,45)	RS1/10SR100J	RS1/10SR100J	R 3418	(B,40,34)	RS1/16SS473J	RS1/16SS473J
R 3222	(A,24,48)	RS1/10SR100J	RS1/16SS0R0J	R 3420	(B,34,36)	RS1/16SS0R0J	RS1/16SS0R0J
R 3300	(A,73,8)	RS1/16SS0R0J	RS1/10SR0R0J	R 3422	(B,22,37)	RS1/16SS0R0J	RS1/16SS0R0J
R 3303	(A,94,17)	RS1/10SR0R0J	RS1/10SR2000D	R 3423	(B,105,13)	RS1/16SS104J	RS1/16SS104J
R 3321	(A,78,17)	RS1/10SR2000D	RS1/10SR2400D	R 3424	(B,106,13)	RS1/16SS0R0J	RS1/16SS0R0J
R 3322	(A,80,17)	RS1/10SR2400D	RS1/10SR2000D	R 3432	(A,139,27)	RS1/16SS0R0J	RS1/16SS0R0J
R 3323	(A,78,20)	RS1/10SR2000D	RS1/10SR2400D	CAPACITORS			
R 3324	(A,79,22)	RS1/10SR2400D	RS1/10SR333J	C 3001	(B,124,54) 100 uF	CCG1232	CCG1232
R 3325	(A,75,23)	RS1/10SR333J	RS1/10SR2000D				
R 3326	(A,69,16)	RS1/10SR2000D					

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

C 3002 (B,128,29)
 C 3003 (B,124,51)
 C 3004 (B,129,34)
 C 3005 (B,124,45) 68 uF/10 V

CKSRYB103K50
 CKSQYB105K16
 CCSRCH681J50
 CCH1635

C 3112 (A,138,47) 10 uF
 C 3113 (B,136,43)
 C 3116 (A,124,60)
 C 3150 (A,49,47)

CCG1223
 CKSRYB102K50
 CKSRYB102K50
 CKSSYB104K16

C 3006 (B,126,32)
 C 3007 (B,122,28)
 C 3008 (B,126,24)
 C 3009 (B,123,43)
 C 3010 (B,119,34)

CCSRCH331J50
 CKSRYB104K50
 CKSRYB104K50
 CKSRYB104K50
 CKSRYB103K50

C 3151 (A,49,48)
 C 3152 (A,49,45)
 C 3153 (A,48,44)
 C 3154 (A,48,45)
 C 3155 (B,48,49)

CKSSYB104K16
 CKSSYB104K10
 CKSSYB104K10
 CKSSYB103K16
 CKSSYB104K10

C 3011 (B,123,25) 10 uF
 C 3012 (B,118,32)
 C 3013 (B,120,29)
 C 3015 (B,117,27)
 C 3016 (B,121,25)

CCG1192
 CKSRYB393K50
 CKSRYB472K50
 CKSRYB393K50
 CKSRYB104K50

C 3156 (B,48,53)
 C 3157 (A,48,43)
 C 3158 (B,48,48)
 C 3159 (B,48,52)
 C 3160 (A,46,44)

CKSSYB104K10
 CKSSYB103K16
 CKSSYB103K16
 CKSSYB103K16
 CKSSYB104K10

C 3017 (B,113,18)
 C 3018 (B,112,39)
 C 3020 (B,117,40)
 C 3021 (B,118,42) 10 uF
 C 3022 (B,118,44) 10 uF

CKSRYB393K50
 CKSRYB104K50
 CKSRYB103K50
 CCG1236
 CCG1236

C 3161 (A,46,43)
 C 3162 (B,39,47)
 C 3163 (B,40,47)
 C 3164 (B,39,51)
 C 3165 (B,40,51)

CKSSYB103K16
 CKSSYB104K10
 CKSSYB103K16
 CKSSYB104K10
 CKSSYB103K16

C 3023 (B,112,37)
 C 3024 (B,110,37)
 C 3025 (B,104,46) 10 uF
 C 3026 (B,108,37)
 C 3027 (B,103,45)

CKSRYB105K10
 CCSRCH102J50
 CCG1236
 CKSRYB104K50
 CKSRYB103K50

C 3166 (B,39,49)
 C 3167 (B,38,49)
 C 3168 (B,41,63) 68 uF/10 V
 C 3200 (A,28,67)
 C 3201 (A,22,67)

CKSSYB104K10
 CKSSYB103K16
 CCH1635
 CKSSYB104K10
 CKSSYB104K10

C 3028 (B,108,21)
 C 3029 (B,106,37)
 C 3030 (B,104,37)
 C 3032 (B,102,17)
 C 3033 (B,101,28)

CCSRCH102J50
 CKSRYB105K10
 CKSRYB103K50
 CKSRYB105K10
 CKSRYB103K50

C 3202 (A,28,65)
 C 3203 (A,28,63)
 C 3204 (A,19,56)
 C 3205 (A,30,62)
 C 3206 (A,26,51)

CKSSYB104K10
 CKSRYB105K6R3
 CKSSYB104K10
 CKSSYB104K10
 CKSRYB105K6R3

C 3034 (B,99,28)
 C 3035 (B,102,25)
 C 3036 (B,99,33)
 C 3037 (B,108,49)
 C 3038 (B,107,51) 33 uF/10 V

CKSYB475K16
 CKSRYB104K16
 CCSRCH181J50
 CKSRYB104K50
 CCH1586

C 3207 (B,24,54)
 C 3208 (B,20,49)
 C 3209 (B,21,54) 10 uF
 C 3210 (B,22,49) 4.7 uF
 C 3211 (B,18,54) 10 uF

CKSRYB104K50
 CKSRYB104K50
 CCG1236
 CCG1222
 CCG1236

C 3039 (B,95,38)
 C 3040 (B,99,38)
 C 3041 (B,98,38)
 C 3042 (B,87,20)
 C 3043 (B,89,20)

CCSRCH181J50
 CKSRYB472K50
 CKSRYB472K50
 CKSRYB474K16
 CKSRYB474K16

C 3213 (A,32,66)
 C 3214 (B,62,43) 10 uF
 C 3215 (B,61,42)
 C 3300 (A,107,70) 10 uF
 C 3302 (A,81,56)

CKSSYB104K10
 DCH1201
 CKSSYB104K10
 CCG1236
 CKSQYB224K50

C 3044 (B,116,49)
 C 3045 (B,90,20)
 C 3046 (B,97,45)
 C 3047 (B,101,44)
 C 3048 (B,91,13)

CKSQYB105K16
 CKSRYB474K16
 CKSQYB105K25
 CKSRYB104K50
 CKSQYB225K16

C 3303 (A,76,24)
 C 3304 (A,71,22)
 C 3305 (A,66,28)
 C 3309 (A,76,32) 10 uF
 C 3310 (A,64,52)

CKSQYB106K6R3
 CKSQYB106K6R3
 CKSQYB106K6R3
 DCH1201
 CKSSYB104K10

C 3049 (B,93,13)
 C 3050 (B,99,46)
 C 3051 (B,96,48)
 C 3052 (B,87,13)
 C 3053 (B,89,13)

CKSQYB225K16
 CKSQYB105K25
 CKSQYB105K25
 CKSQYB105K16
 CKSQYB105K16

C 3311 (A,63,54)
 C 3350 (A,65,6)
 C 3360 (B,84,64)
 C 3361 (B,85,65)
 C 3362 (B,84,60)

CKSQYB106K6R3
 CKSSYB104K10
 CKSSYB222K50
 CKSSYB222K50
 CKSQYB106K6R3

C 3054 (B,92,21)
 C 3055 (B,96,12)
 C 3100 (B,100,63)
 C 3101 (B,100,57)
 C 3102 (B,103,61)

CKSQYB105K16
 CKSQYB105K16
 CKSSYB104K16
 CKSSYB104K16
 CKSSYB104K16

C 3363 (B,86,61)
 C 3364 (B,88,60)
 C 3365 (B,88,63)
 C 3366 (B,90,59)
 C 3367 (B,88,58)

CKSQYB106K6R3
 CKSQYB106K6R3
 CKSSYB102K50
 CKSQYB106K6R3
 CKSSYB102K50

C 3103 (B,103,58)
 C 3105 (A,111,66)
 C 3106 (B,113,67)
 C 3107 (B,115,65)
 C 3108 (A,123,70)

CKSSYB104K16
 CCSSCH470J50
 CKSSYB473K16
 CKSRYB104K50
 CKSQYB225K10

C 3368 (A,80,35)
 C 3369 (A,82,35)
 C 3370 (B,91,34)
 C 3371 (B,92,34)
 C 3372 (B,94,34)

CKSQYB106K6R3
 CKSQYB106K6R3
 CKSSYB104K10
 CKSSYB104K10
 CKSSYB104K10

C 3111 (A,138,44) 10 uF

CCG1223

C 3373 (A,84,29)

CKSSYB104K10

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5
Circuit Symbol and No.

C 3374	(B,80,34)	
C 3403	(A,21,41)	
C 3404	(A,11,41)	
C 3405	(A,11,38)	
C 3406	(A,19,43)	
C 3407	(A,25,42)	10 uF
C 3408	(A,17,38)	
C 3409	(A,15,37)	10 uF
C 3410	(A,25,38)	10 uF
C 3411	(A,27,40)	10 uF
C 3412	(A,24,36)	
C 3413	(A,20,36)	
C 3414	(A,29,38)	10 uF
C 3415	(A,27,37)	
C 3416	(A,24,35)	
C 3417	(A,21,35)	
C 3418	(A,29,37)	
C 3419	(A,27,36)	
C 3420	(A,30,36)	
C 3421	(A,30,35)	
C 3422	(A,27,35)	
C 3423	(A,32,47)	

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Part No.

CKSSYB104K16		
CKSRYB104K50		
CKSRYB104K50		
CKSRYB104K50		
CKSRYB104K50		
CCG1192		
CKSQYB334K50		
CCG1236		
CCG1192		
CCG1192		
CKSRYB104K50		
CKSRYB104K50		
CCG1192		
CKSSYB104K10		
CKSSYB102K50		
CKSSYB102K50		
CKSSYB104K10		
CKSSYB102K10		
CKSSYB102K10		
CCSSCH101J50		
CCSSCH101J50		
CKSSYB103K16		



Unit Number : CWN3988
Unit Name : Keyboard Unit

MISCELLANEOUS

D 2901	(A,24,33)	Chip LED	NSSM038A-7306
D 2902	(A,143,33)	Chip LED	NSSM038A-7306
L 2902	(A,10,31)	Inductor	CTF1767
L 2903	(A,7,31)	Inductor	CTF1767
S 2902	(A,133,33)	Switch	CSG1191
S 2903	(A,91,33)	Switch	CSG1191
S 2904	(A,34,33)	Switch	CSG1191
S 2905	(A,77,33)	Switch	CSG1191
S 2906	(A,48,33)	Switch	CSG1191
S 2907	(A,63,33)	Switch	CSG1191
S 2908	(A,104,33)	Switch	CSG1191
S 2909	(A,119,33)	Switch	CSG1191
CN2901	(A,15,33)	Connector	CKS5749
JA2901	(A,5,33)	Antenna	CTX1110

RESISTORS

R 2901	(A,81,32)	RS1/10SR122J
R 2902	(A,68,33)	RS1/10SR242J
R 2903	(A,53,32)	RS1/10SR122J
R 2904	(A,97,32)	RS1/10SR242J
R 2905	(A,115,32)	RS1/10SR682J

CAPACITORS

C 2901	(A,44,33)	CKSRYB104K50
C 2902	(A,40,33)	CKSRYB104K50
C 2903	(A,124,33)	CKSRYB104K50
C 2904	(A,128,33)	CKSRYB104K50



Unit Number : EXX1060
Unit Name : PCB Unit(Service)

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Circuit Symbol and No.

MISCELLANEOUS

IC 101	Driver IC	BA6288FS
VR101	Volume 10 kohm	CCW1029
S 101	Switch	CSN1067
S 102	Switch	CSN1068
CN101	Connector	CKS4997

RESISTORS

R 101	RS1/16S221J
R 102	RS1/16S221J
R 103	RS1/16S0R0J

CAPACITORS

C 101	CEVW220M16
C 102	CKSRYB104K16



Unit Number : YWX5009
Unit Name : DVD Core Unit

MISCELLANEOUS

IC 1002	(B,21,41) Regulator IC	S-1133B50-U5
IC 1003	(B,35,23) IC	S-1200B50-M5
IC 1004	(B,25,11) IC	NJM2885DL1-33
IC 1005	(B,19,21) IC	R1232D121B
IC 1201	(A,15,29) IC	BD8231EFV
*IC1401	(B,63,36) Flash ROM Unit	CWW1825
*IC1402	(B,50,36) Flash ROM Unit	CWW1826
IC 1480	(B,59,13) SDRAM(64M)	K4S641632N-LC75
IC 1501	(A,60,20) IC	MN2DS0018MAUB
IC 1801	(B,37,16) D/A Converter	PCM1753DBQ
Q 1101	(A,35,39) Transistor	2SC4081
Q 1102	(A,46,42) Transistor	2SC4081
Q 1103	(A,38,45) Transistor	2SB1132
Q 1104	(A,45,49) Transistor	2SB1132
L 1003	(B,22,26) Inductor	CTF1677
L 1004	(B,14,17) Inductor	CTF1678
L 1512	(A,57,5) Inductor	CTF1743
L 1902	(B,5,8) Inductor	CTF1487
L 1903	(B,12,11) Inductor	CTF1558
L 1904	(B,46,19) Inductor	CTF1473
X 1501	(B,43,7) Oscillator 27.000 MHz	CSS1768
EF1001	(B,5,12) Chip EMI Filter	DTF1106
EF1002	(B,11,13) Chip EMI Filter	DTL1106
CN1101	(A,66,49) Connector	CKS5775
CN1201	(A,16,44) Connector	CKS6003
CN1901	(A,21,7) Connector	CKS6025

RESISTORS

R 1002	(B,18,27)	RS1/16SS101J
R 1004	(A,29,27)	RS1/16SS4702D
R 1007	(A,29,26)	RS1/16SS6801D
R 1019	(B,15,9)	RS1/16SS101J
R 1021	(A,27,15)	RS1/16SS0R0J
R 1025	(B,19,11)	RS1/16SS101J
R 1027	(A,27,19)	RS1/16SS101J
R 1101	(A,35,36)	RS1/16SS104J

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

R 1102	(A,43,42)	RS1/16SS104J	R 1522	(A,65,38)	RS1/16SS104J
R 1103	(A,34,41)	RS1/16SS391J	R 1523	(A,66,37)	RS1/16SS221J
A R 1104	(A,36,36)	RS1/16SS511J	R 1524	(A,64,37)	RS1/16SS472J
R 1105	(A,42,44)	RS1/16SS391J	R 1525	(A,71,34)	RS1/16SS103J
R 1106	(A,45,39)	RS1/16SS561J	R 1526	(A,67,34)	RS1/16SS103J
R 1109	(A,34,43)	RS1/16SS3R3J	R 1527	(B,77,29)	RS1/16SS682J
R 1110	(A,41,43)	RS1/16SS3R3J	R 1528	(A,78,20)	RS1/16SS103J
R 1111	(A,38,39)	RS1/10SR1R5J	R 1529	(A,76,18)	RS1/16SS103J
R 1112	(A,38,38)	RS1/10SR1R5J	R 1530	(A,77,20)	RS1/16SS103J
R 1113	(A,49,46)	RS1/10SR1R5J	R 1531	(A,75,24)	RS1/16SS103J
R 1114	(A,48,46)	RS1/10SR1R5J	R 1533	(A,75,29)	RS1/16SS104J
R 1115	(A,41,38)	RS1/10SR1R5J	R 1534	(A,78,30)	RS1/16SS221J
R 1116	(A,41,39)	RS1/10SR1R5J	R 1535	(B,70,34)	RS1/16SS104J
R 1117	(A,48,43)	RS1/10SR1R5J	R 1536	(A,78,31)	RS1/16SS104J
R 1118	(A,49,43)	RS1/10SR1R5J	R 1537	(A,73,35)	RS1/16SS104J
R 1201	(A,16,36)	RS1/16SS221J	R 1538	(A,61,4)	RS1/16SS104J
R 1202	(A,17,35)	RS1/16SS221J	R 1539	(A,77,23)	RS1/16SS104J
R 1203	(A,22,35)	RS1/16SS103J	R 1540	(A,73,32)	RS1/16SS221J
R 1204	(A,19,35)	RS1/16SS153J	R 1541	(A,75,32)	RS1/16SS221J
R 1212	(A,7,36)	RS1/16SS271J	R 1542	(A,77,29)	RS1/16SS103J
R 1213	(B,8,29)	RS1/16SS1R0J	R 1546	(B,75,29)	RS1/16SS682J
R 1214	(B,8,27)	RS1/16SS1R0J	R 1601	(A,42,25)	RS1/16SS123J
R 1215	(B,8,28)	RS1/16SS1R0J	R 1602	(A,44,25)	RS1/16SS123J
R 1216	(B,8,24)	RS1/16SS1R0J	R 1603	(A,43,30)	RN1/16SE1002D
C R 1217	(B,8,25)	RS1/16SS1R0J	R 1604	(A,50,35)	RS1/16SS105J
R 1218	(B,8,26)	RS1/16SS1R0J	R 1605	(A,49,37)	RS1/16SS105J
R 1222	(B,26,39)	RS1/16SS271J	R 1670	(A,34,21)	RS1/16SS1002D
R 1300	(B,39,24)	RS1/16SS0R0J	R 1671	(A,36,21)	RS1/16SS2402D
R 1401	(B,63,49)	RS1/16SS221J	R 1672	(A,45,19)	RS1/16SS2000D
R 1402	(B,70,27)	RS1/16SS104J	R 1674	(A,45,20)	RS1/16SS3002D
R 1405	(B,56,24)	RS1/16SS104J	R 1801	(B,35,6)	RS1/16SS104J
R 1406	(B,54,25)	RS1/16SS104J	R 1802	(B,33,6)	RS1/16SS104J
R 1480	(B,52,21)	RAB4CQ560J	R 1803	(B,35,11)	RS1/16SS821J
R 1481	(B,56,21)	RAB4CQ560J	R 1804	(B,34,11)	RS1/16SS821J
R 1482	(B,61,21)	RAB4CQ560J	CAPACITORS		
D R 1483	(B,64,21)	RAB4CQ560J	C 1001	(B,36,21)	CKSRYB105K10
R 1484	(B,67,21)	RAB4CQ560J	C 1003	(B,18,44)	CKSSYB104K16
R 1485	(B,50,5)	RAB4CQ560J	C 1004	(B,24,40)	CKSQYB475K10
R 1486	(B,55,5)	RAB4CQ560J	C 1005	(B,32,23)	CKSRYB105K16
R 1487	(B,64,5)	RAB4CQ560J	C 1008	(B,20,31) 10 uF	DCH1201
R 1488	(B,68,5)	RAB4CQ560J	C 1009	(B,18,31) 10 uF	DCH1201
R 1489	(B,59,5)	RS1/16SS560J	C 1010	(B,26,18)	CKSQYB225K10
R 1490	(B,50,21)	RS1/16SS560J	C 1011	(B,22,18)	CKSRYB105K10
R 1501	(B,46,7)	RS1/16SS122J	C 1013	(B,15,25) 10 uF	DCH1201
R 1503	(B,45,8)	RS1/16SS105J	C 1014	(B,13,25) 10 uF	DCH1201
R 1504	(B,45,13)	RS1/16SS120J	C 1015	(B,7,8)	CKSSYB102K50
E R 1505	(A,43,13)	RS1/16SS101J	C 1016	(B,12,10)	CKSSYB102K50
R 1506	(A,37,14)	RS1/16SS101J	C 1018	(A,28,28)	CKSSYB104K10
R 1507	(A,44,14)	RS1/16SS101J	C 1019	(A,10,17)	CKSSYB104K10
R 1508	(A,43,15)	RS1/16SS221J	C 1021	(B,34,4)	CCSRCH681J50
R 1509	(A,63,35)	RS1/16SS102J	C 1022	(A,23,21)	CCSRCH681J50
R 1510	(A,64,35)	RS1/16SS102J	C 1101	(B,31,40) 10 uF	DCH1201
R 1511	(B,46,13)	RS1/16S0R0J	C 1104	(A,34,42)	CKSSYB104K10
R 1512	(A,58,5)	RS1/16SS101J	C 1105	(A,42,45)	CKSSYB104K10
R 1513	(A,66,35)	RS1/16SS103J	C 1106	(A,37,48)	CKSSYB103K16
R 1514	(A,68,35)	RS1/16SS183J	C 1107	(A,41,49)	CKSSYB103K16
F R 1516	(A,65,36)	RS1/16SS103J	C 1108	(A,74,42)	CKSSYB103K16
R 1517	(A,76,16)	RS1/16SS103J	C 1109	(A,56,41)	CKSRYB224K10
R 1518	(A,74,24)	RS1/16SS103J			
R 1519	(A,70,34)	RS1/16SS102J			

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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 1110	(A,71,42)	CKSSYB103K16		C 1609	(A,48,35)	CKSSYB104K10	
C 1111	(A,61,39)	CKSRYB224K10		C 1610	(A,50,37)	CKSSYB104K10	
C 1112	(B,40,39) 22 uF	CCG1178		C 1611	(A,51,37)	CKSSYB104K10	A
C 1113	(B,36,38) 22 uF	CCG1178		C 1612	(A,52,34)	CKSSYB104K10	
C 1201	(B,12,34)	CEVW101M16		C 1613	(A,52,37)	CKSSYB104K10	
C 1204	(A,8,24)	CKSSYB222K50		C 1614	(A,53,34)	CKSSYB104K10	
C 1205	(A,13,23)	CKSSYB104K16		C 1615	(A,54,34)	CKSSYB104K10	
C 1207	(A,22,25)	CKSSYB104K16		C 1616	(A,54,37)	CKSSYB104K10	
C 1208	(A,15,36)	CKSSYB103K16		C 1617	(A,54,38)	CKSSYB104K10	
C 1209	(B,10,25)	CKSSYB104K16		C 1618	(A,56,34)	CCSSCH101J50	
C 1210	(B,6,23)	CKSSYB104K16		C 1619	(A,57,34)	CKSSYB562K25	
C 1211	(B,9,22)	CKSYB475K16		C 1620	(A,58,34)	CKSSYB224K6R3	
C 1401	(B,63,48)	CKSSYB103K16		C 1621	(A,57,37)	CKSSYB224K6R3	
C 1403	(B,69,23)	CKSSYB104K10		C 1622	(A,59,35)	CKSSYB333K16	B
C 1404	(B,58,25)	CKSQYB475K6R3		C 1623	(A,45,35)	CKSRYB105K10	
C 1408	(B,47,25)	CKSSYB104K10		C 1624	(A,58,37)	CKSSYB104K10	
C 1409	(B,47,23)	CKSQYB475K6R3		C 1625	(A,56,37)	CKSSYB104K10	
C 1480	(B,47,21)	CKSSYB104K10		C 1671	(A,44,17)	CKSSYB104K10	
C 1481	(B,49,23)	CKSSYB104K10		C 1672	(A,45,18)	CKSSYB104K10	
C 1482	(B,54,21)	CKSSYB104K10		C 1673	(A,45,22)	CKSSYB104K10	
C 1484	(B,59,20)	CKSSYB104K10		C 1674	(A,43,21)	CKSSYB104K10	
C 1485	(B,69,21)	CKSSYB104K10		C 1676	(A,38,22)	CKSRYB105K10	
C 1487	(B,58,4)	CKSSYB104K10		C 1801	(B,34,8)	CKSQYB475K6R3	
C 1488	(B,52,5)	CKSSYB104K10		C 1802	(B,32,8)	CKSQYB475K6R3	
C 1489	(B,45,20)	CKSQYB106K6R3		C 1803	(B,36,8)	CCSRCH182J50	C
C 1490	(B,45,23)	CKSSYB102K50		C 1804	(B,31,7)	CCSRCH182J50	
C 1501	(B,72,9)	CKSQYB106K6R3		C 1805	(B,32,19)	CKSSYB104K10	
C 1502	(A,35,32)	CKSQYB106K6R3		C 1806	(B,39,9) 10 uF	DCH1201	
C 1503	(A,60,4)	CKSSYB104K10		C 1809	(B,43,16)	CKSSYB104K10	
C 1504	(A,51,5)	CKSSYB104K10		C 1934	(B,42,29)	CCSRCH680J50	
C 1505	(A,53,5)	CKSSYB104K10					
C 1506	(A,55,5)	CKSSYB104K10					
C 1507	(A,62,5)	CKSSYB104K10					
C 1508	(A,66,5)	CKSSYB104K10					
C 1509	(A,69,5)	CKSSYB104K10					
C 1510	(B,46,5)	CCSSCH120J50					
C 1511	(A,46,9)	CKSSYB104K10					
C 1512	(B,43,10)	CCSSCH100D50					
C 1513	(B,74,12)	CKSSYB104K10					
C 1514	(A,46,13)	CKSSYB104K10					
C 1515	(A,45,15)	CKSSYB104K10					
C 1516	(A,75,15)	CKSSYB104K10					
C 1517	(A,74,16)	CKSSYB104K10					
C 1518	(A,75,22)	CKSSYB104K10					
C 1519	(A,74,26)	CKSSYB104K10					
C 1520	(A,75,30)	CKSSYB104K10					
C 1521	(A,60,37)	CKSSYB104K10					
C 1522	(A,65,34)	CKSSYB104K10					
C 1523	(A,68,37)	CKSSYB104K10					
C 1524	(A,69,37)	CKSSYB473K10					
C 1526	(A,68,37)	CKSSYB103K16					
C 1528	(A,78,29)	CCSSCH471J16					
C 1601	(A,44,29)	CKSSYB103K16					
C 1602	(A,42,24)	CCSSCH101J50					
C 1603	(A,44,27)	CCSSCH101J50					
C 1604	(A,41,27)	CCSSCH680J50					
C 1605	(A,43,27)	CCSSCH680J50					
C 1606	(A,41,23)	CKSSYB104K10					
C 1607	(A,41,35)	CKSQYB106K6R3					
C 1608	(A,43,36)	CKSRYB105K10					

D

Unit Number :
Unit Name : Connect PCB

MISCELLANEOUS

S 101	(B,51,37) Switch(HOME)	CSN1068
S 102	(B,12,23) Switch(DSCSNS)	CSN1068
S 103	(B,22,10) Switch(8SNS)	CSN1068
R 101	(B,52,27)	RS1/16S101J
R 102	(B,15,29)	RS1/16S101J
R 103	(B,16,11)	RS1/16S101J
C 101	(B,51,23)	CKSRYB104K50

Miscellaneous Parts List

M 1	Pickup Unit(Service)	CXX2398
M 2	Motor Unit(LOAD/CRG)	CXC4026
	Motor(SPINDLE)	EXM1050