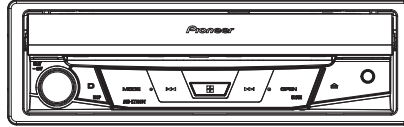


Pioneer

Service Manual



AVH-X7700BT/XNUC

ORDER NO.
CRT5646

DVD RDS AV RECEIVER

AVH-X7700BT /XNUC

AVH-X7700BT /XNEW5

AVH-X7700BT /XNUW5

AVH-X7750BT /XNRC

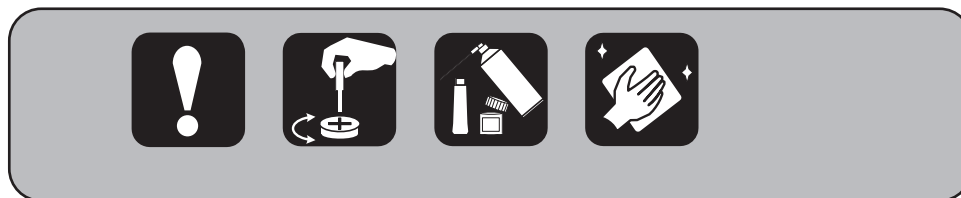
AVH-X7750BT /XNRD

AVH-X7750TV /XNRD

AVH-X7750BT /XNRI

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

Model No.	Order No.	Mech.Module	Remarks
CX-3268	CRT4534	MS7	DVD Mech. Module : Circuit Descriptions, Mech. Descriptions, Disassembly
CX-3310	CRT5669	MS7.2	DVD Mech. Module : Diagnosis Flowchart



PIONEER CORPORATION 1-1, Shin-ogura, Saiwai-ku, Kawasaki-shi, Kanagawa 212-0031, Japan
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PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936
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K-ZZZ NOV. 2014 Printed in Japan

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

This product is a class 1 laser product classified under the Safety of laser products, IEC 60825-1:2007, and contains a class 1M laser module. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

CLASS 1 LASER PRODUCT

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

WARNING!

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

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

Laser diode characteristics

Wave length:

DVD:660 nm to 670 nm

CD:780 nm to 800 nm

Focus lens on Maximum output:

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

DVD:1.27 mW (Emitting period : unlimited)

Additional Laser Caution

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

CAUTION

Danger of explosion if battery is incorrectly replaced.

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

Discard used batteries according to the manufacturer's instructions.

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A

B

C

D

E

F

1. SERVICE PRECAUTIONS

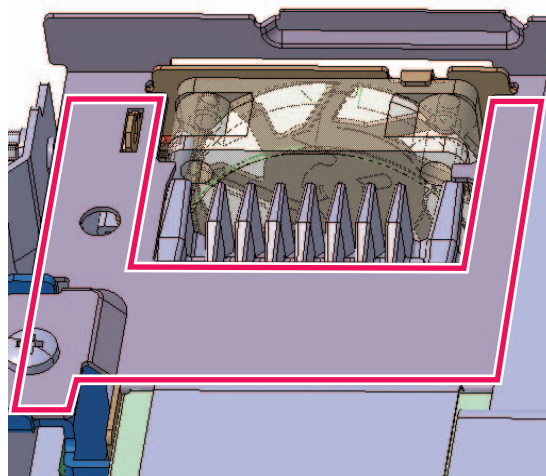
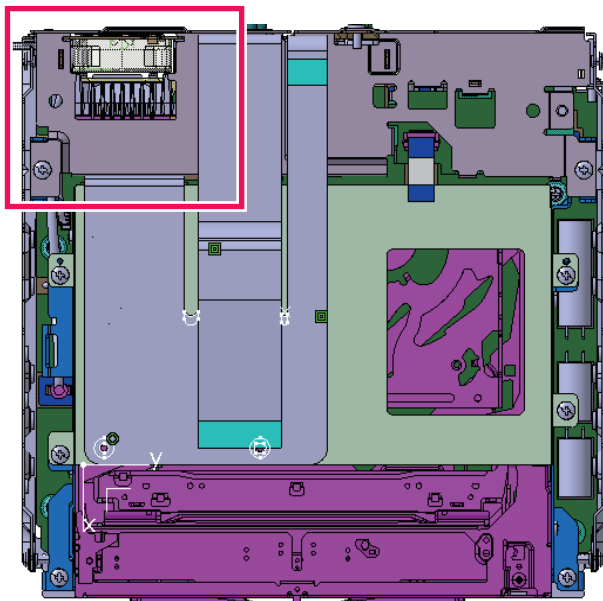
1.1 SERVICE PRECAUTIONS

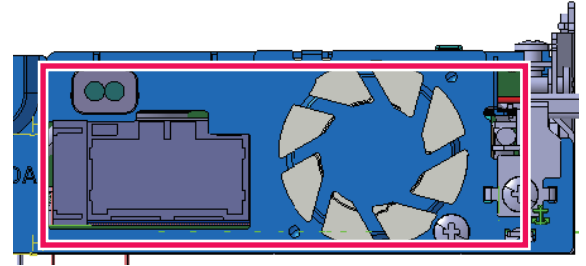
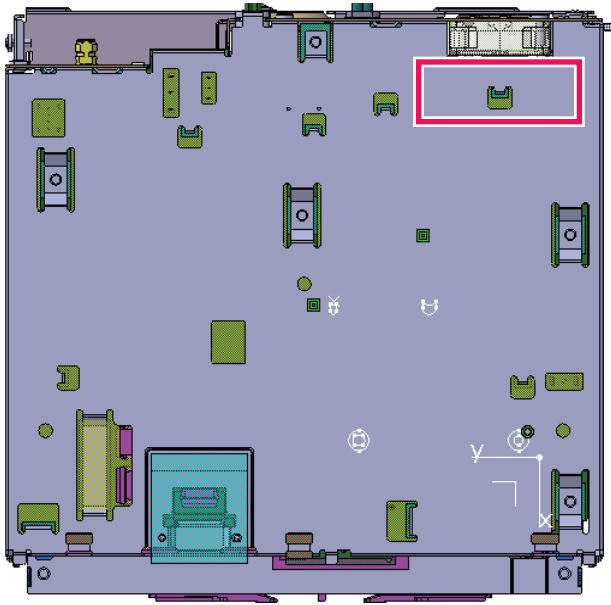


1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
2. Be careful in handling ICs. Some ICs such as MOS type are so fragile that they 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. When a flash ROM needs to be replaced by service, do not replace an IC but a core unit (as no encryption key is written in a flash alone).
7. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.
8. EJECT LOCK MODE for DVD mechanism
How to enter : Turn on ACC while pressing [HOME] and [EJECT] keys together.
How to exit : Same procedure to enter this mode.
9. The part listed below is difficult to replace as a discrete component part.
When the part listed in the table is defective, replace whole Assy.

	Wiring Number	Part Number	Reason
Mother Unit	IC351	KBD9876EFJ	Bottom pad
Mother Unit	IC601	MN1AA9010Z	Bottom pad, Narrow pitch(0.4mm)
Mother Unit	IC891	337S3959	Bottom pad
Mother Unit	IC1201	PM9014A	Bottom pad
Mother Unit	IC2201	TEF6686HN	Bottom pad
Mother Unit	IC3101	STCC2540IQ	Bottom pad
Monitor Unit	IC5001	AK4187VN	Bottom pad
Monitor Unit	IC5101	OZ527ILN	Bottom pad
Monitor Unit	IC5201	R1290K103A	Bottom pad

10. area and a heat sink becomes hot areas. Be careful not to burn yourself.

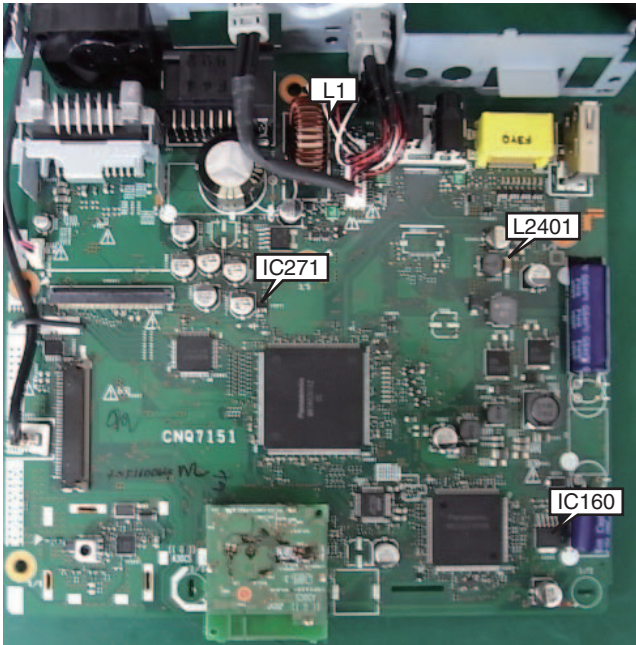




11. The following area becomes hot areas. Be careful not to burn yourself.

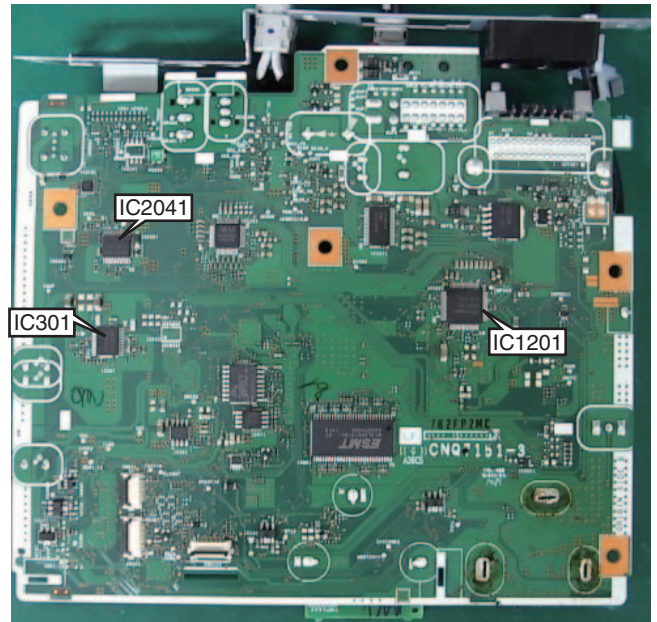
Mother Unit

SIDE A



Mother Unit

SIDE B



Note:
the photograph shown is slightly different from this model in shape.

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

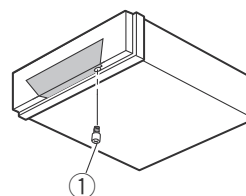
2.1 SPECIFICATIONS

For all items except the backup current, refer to the Owner's Manual.

Backup current..... 5.0 mA or less

Fastening the front panel

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



① Screw : BPZ20P060FTC (XNUC only)
XXX7020 (Except XNUC)

2.2 DISC/CONTENT FORMAT



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

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

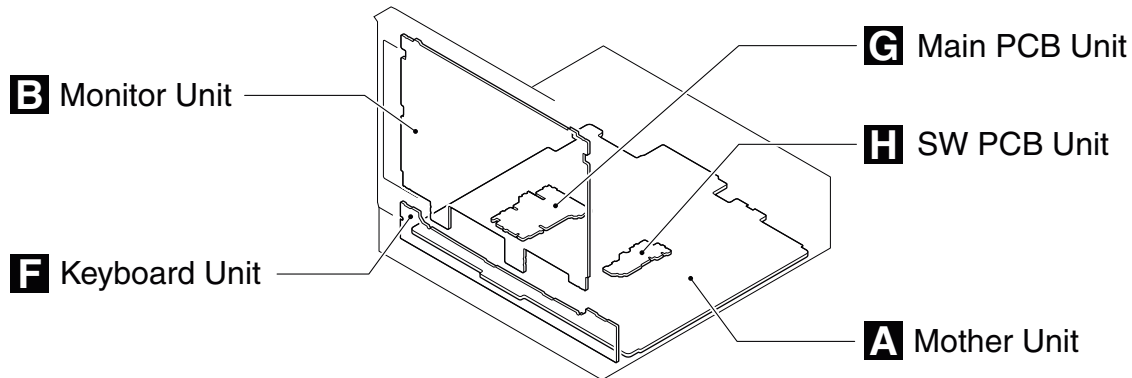
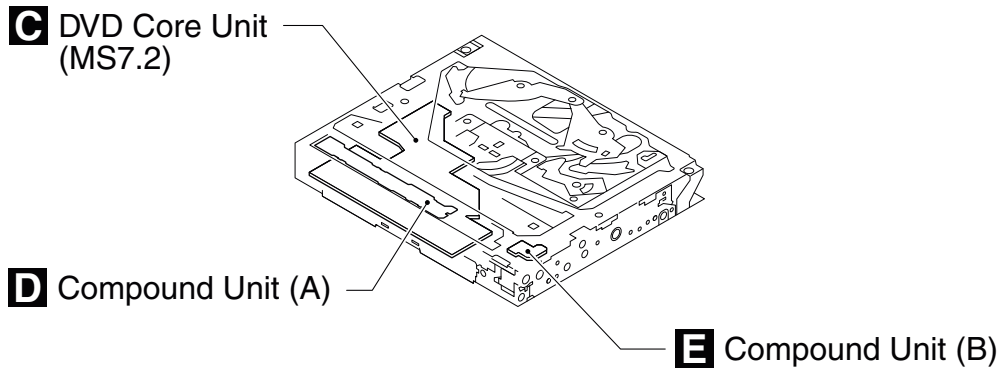
To keep the product quality after servicing, please confirm following check points.

No.		Procedures	Item to be confirmed
1		Confirm whether the customer complain has been solved. If the customer complain occurs with the specific media, use it for the operation check.	The customer complain must not be reappeared. Display, video, audio and operations must be normal.
2	Flap-mecha	Check the operation of the flap mechanism.	The flap mechanism operation must be smooth without making the noise and scratches.
3	DVD	Measure playback error rates at the innermost and outermost tracks by using the test mode with the following disc. DVD test disc (TDV-582)	Deterioration of mecha-drive can be checked. The error rate must be less than the threshold value. (Refer to the chapter of DIAGNOSIS for the threshold value.)
4	DVD	Play back a DVD. (Menu operation; Title/chapter search)	Display, video, audio and operations must be normal.
5	CD	Play back a CD. (Track search)	Display, audio and operations must be normal.
6		Check whether no disc is inside the product.	The media used for the operating check must be ejected.
7		Appearance check	No scratches or dirt on its appearance after receiving it for service.

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

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

3.2 PCB LOCATIONS



A:AVH-X7700BT/XNUC
 B:AVH-X7700BT/XNEW5
 C:AVH-X7700BT/XNUW5
 D:AVH-X7750BT/XNRC
 E:AVH-X7750BT/XNRD
 F:AVH-X7750TV/XNRD
 G:AVH-X7750BT/XNRI

Unit Name : Monitor Unit
 Unit Number : CWN9246

Unit Name : DVD Core Unit(MS7.2)
 Unit Number : CWX4606

Unit Name : Compound Unit(A)
 Unit Number : CWX4034

Unit Name : Mother Unit
 Unit Number : CWN8784(A)
 Unit Number : CWN8782(B)
 Unit Number : CWN8783(C)
 Unit Number : CWN8785(D)
 Unit Number : CWN8787(E)
 Unit Number : CWN8786(F)
 Unit Number : CWN8788(G)

Unit Name : Compound Unit(B)
 Unit Number : CWX3394

Unit Name : Keyboard Unit
 Unit Number : CWN8792

Unit Name : Main PCB Unit
 Unit Number : EWX2008

Unit Name : SW PCB Unit
 Unit Number : EWX2009

3.3 JIGS LIST

● Jigs List

Name	Jig No.	Remarks
DVD-Video	GGV1025	Inspection method of pickup unit and skew adjustment
CD-DA	TCD-782	Inspection method of pickup unit
Torques (T2) driver	GGK1095	Skew adjustment
30P FFC	GGD1222	DVD CORE UNIT <--> MOTHER UNIT

● Grease List

Name	Jig No.	Remarks
Grease	GEM1038	DVD Mechanism Module
Grease	GEM1045	DVD Mechanism Module
Grease	GEM1050	DVD Mechanism Module
Grease	GEM1085	DVD Mechanism Module
Grease	GEM1024	DVD Mechanism Module and Display Module Unit
Grease	GEM1043	DVD Mechanism Module and Display Module Unit
Bond	GEM1033	DVD Mechanism Module
Bond	GEM1068	DVD Mechanism Module
Grease	GEM1084	Display Module Unit

3.4 CLEANING



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

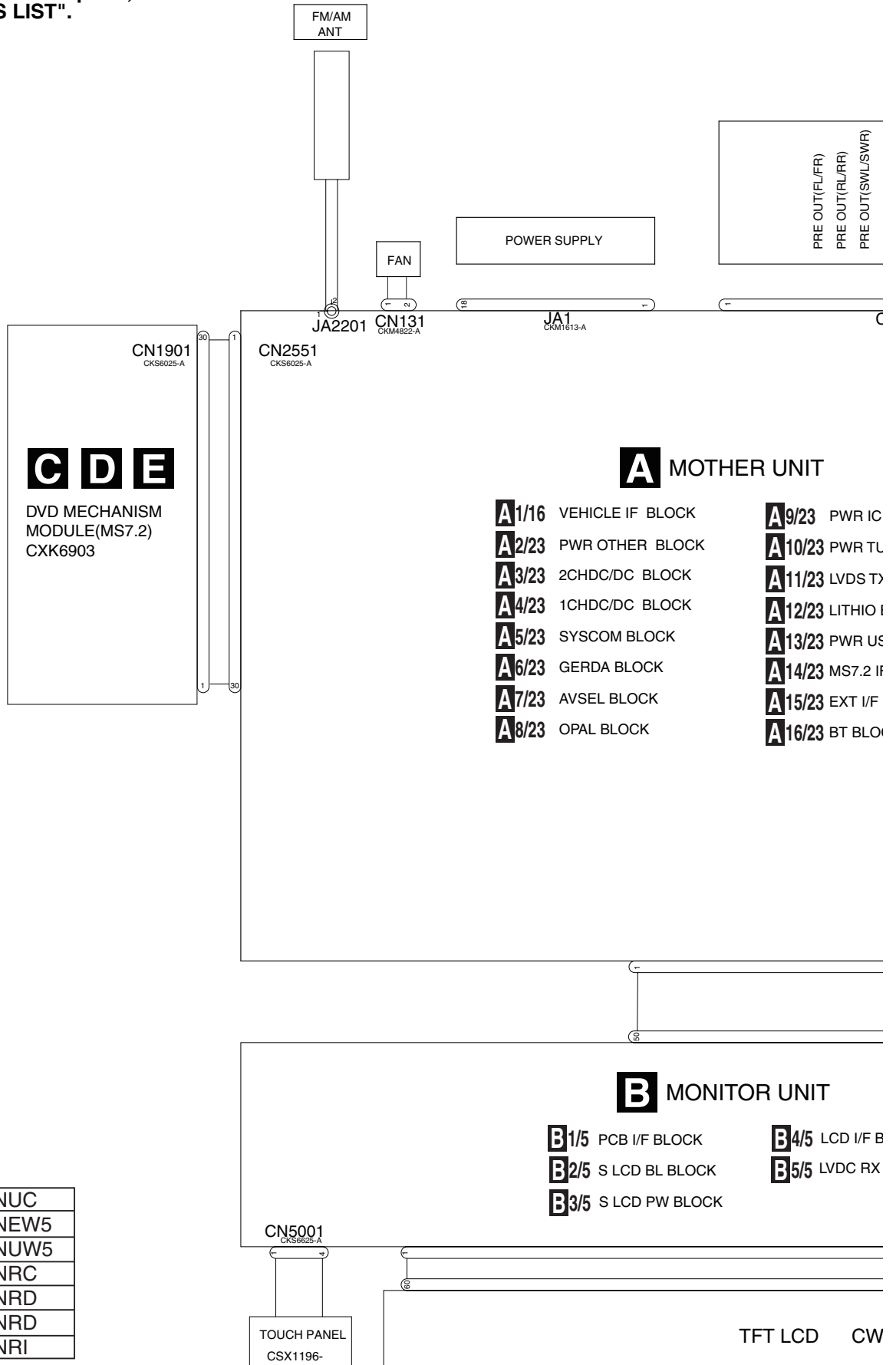
Portions to be cleaned	Cleaning tools
DVD pickup lenses	Cleaning liquid : GEM1004 Cleaning paper : GED-008

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

4. BLOCK DIAGRAM

4.1 OVERALL CONNECTION DIAGRAM

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



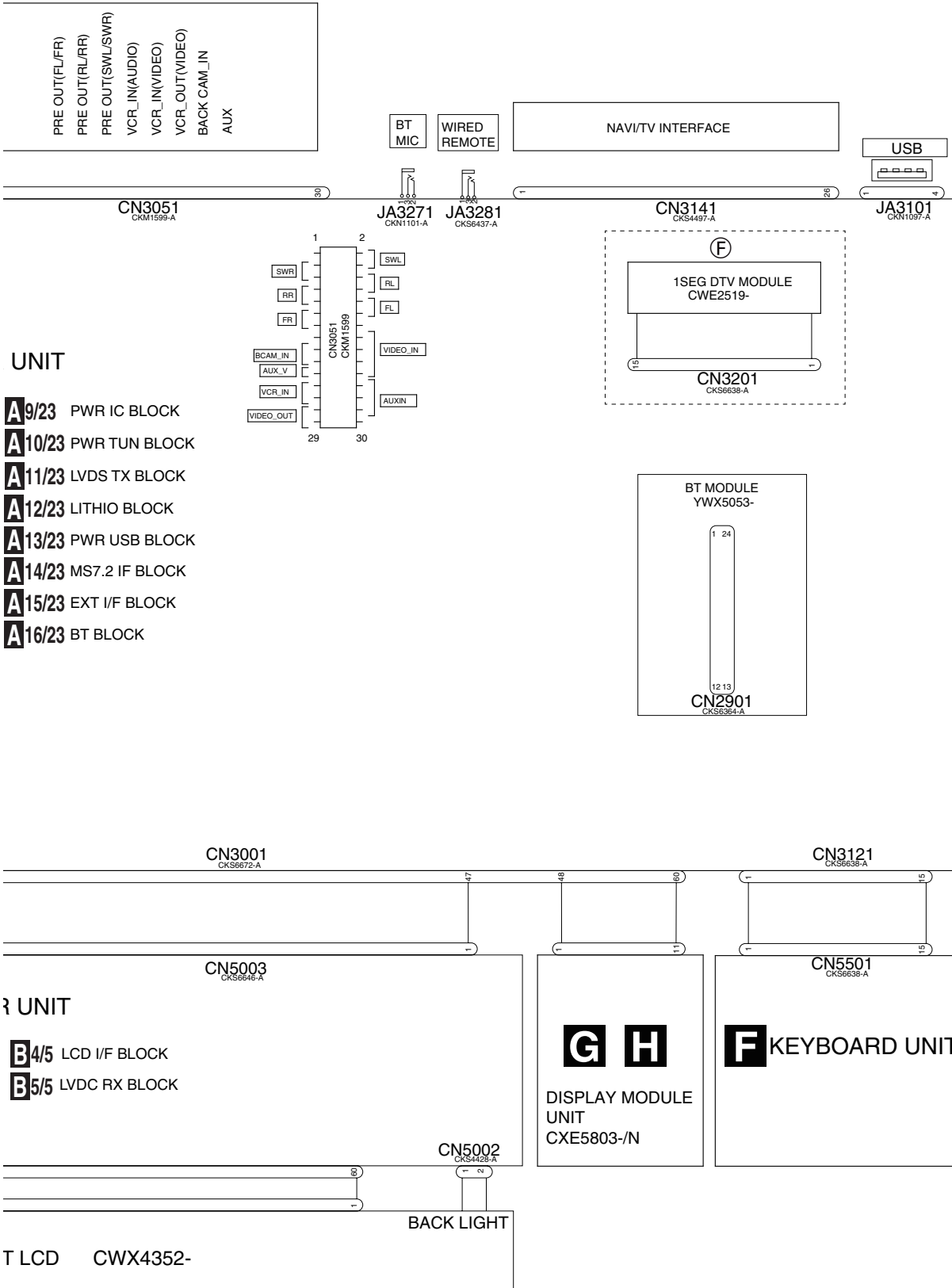
C D E
 DVD MECHANISM
 MODULE(MS7.2)
 CXK6903

- A** MOTHER UNIT
- A**1/16 VEHICLE I/F BLOCK
 - A**2/23 PWR OTHER BLOCK
 - A**3/23 2CHDC/DC BLOCK
 - A**4/23 1CHDC/DC BLOCK
 - A**5/23 SYSCOM BLOCK
 - A**6/23 GERDA BLOCK
 - A**7/23 AVSEL BLOCK
 - A**8/23 OPAL BLOCK
 - A**9/23 PWR IC
 - A**10/23 PWR TL
 - A**11/23 LVDS T
 - A**12/23 LITHIO I
 - A**13/23 PWR U
 - A**14/23 MS7.2 I/F
 - A**15/23 EXT I/F
 - A**16/23 BT BLO

- B** MONITOR UNIT
- B**1/5 PCB I/F BLOCK
 - B**2/5 S LCD BL BLOCK
 - B**3/5 S LCD PW BLOCK
 - B**4/5 LCD I/F B
 - B**5/5 LVDC RX

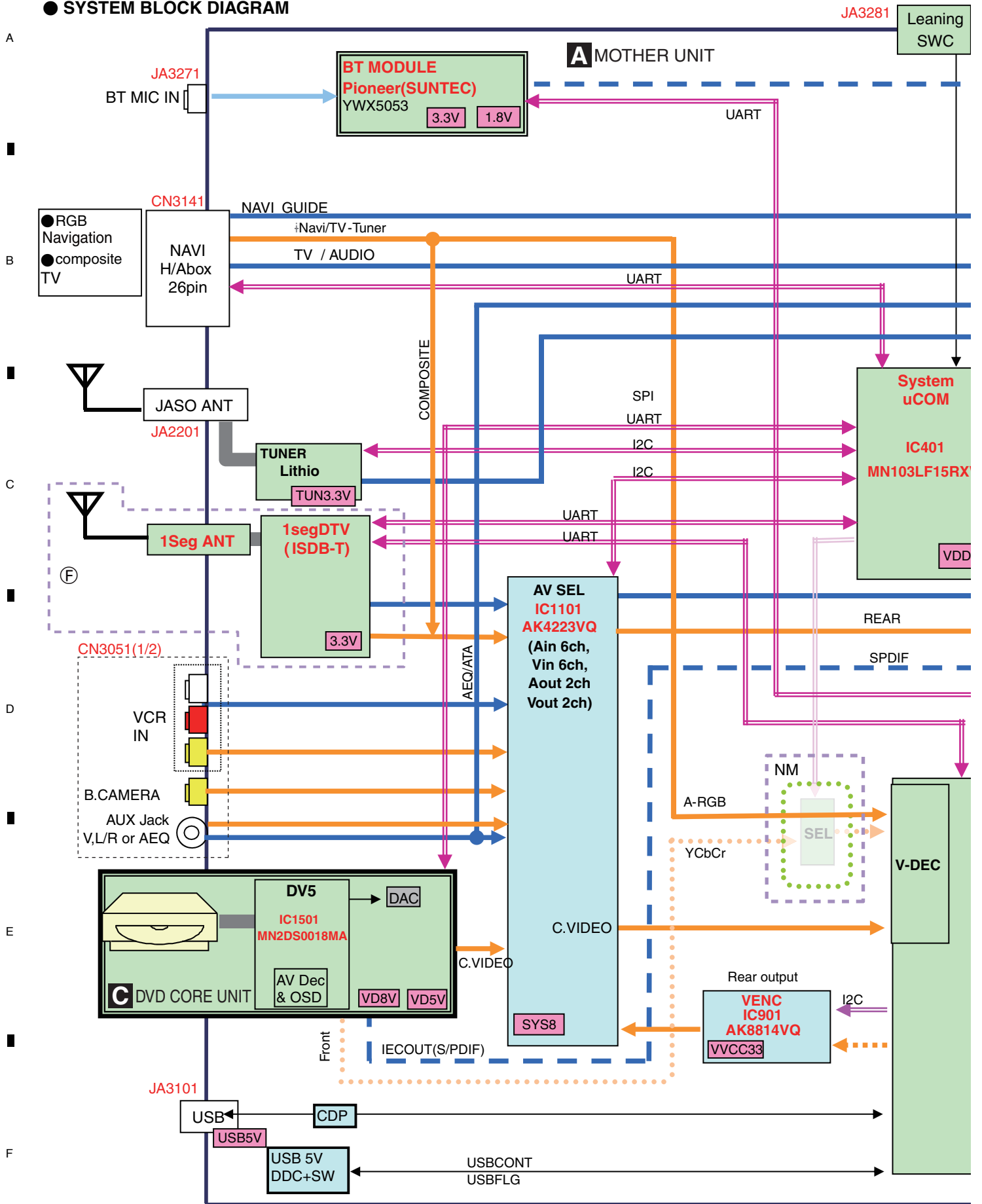
A	AVH-X7700BT/XNUC
B	AVH-X7700BT/XNEW5
C	AVH-X7700BT/XNUW5
D	AVH-X7750BT/XNRC
E	AVH-X7750BT/XNRD
F	AVH-X7750TV/XNRD
G	AVH-X7750BT/XNRI

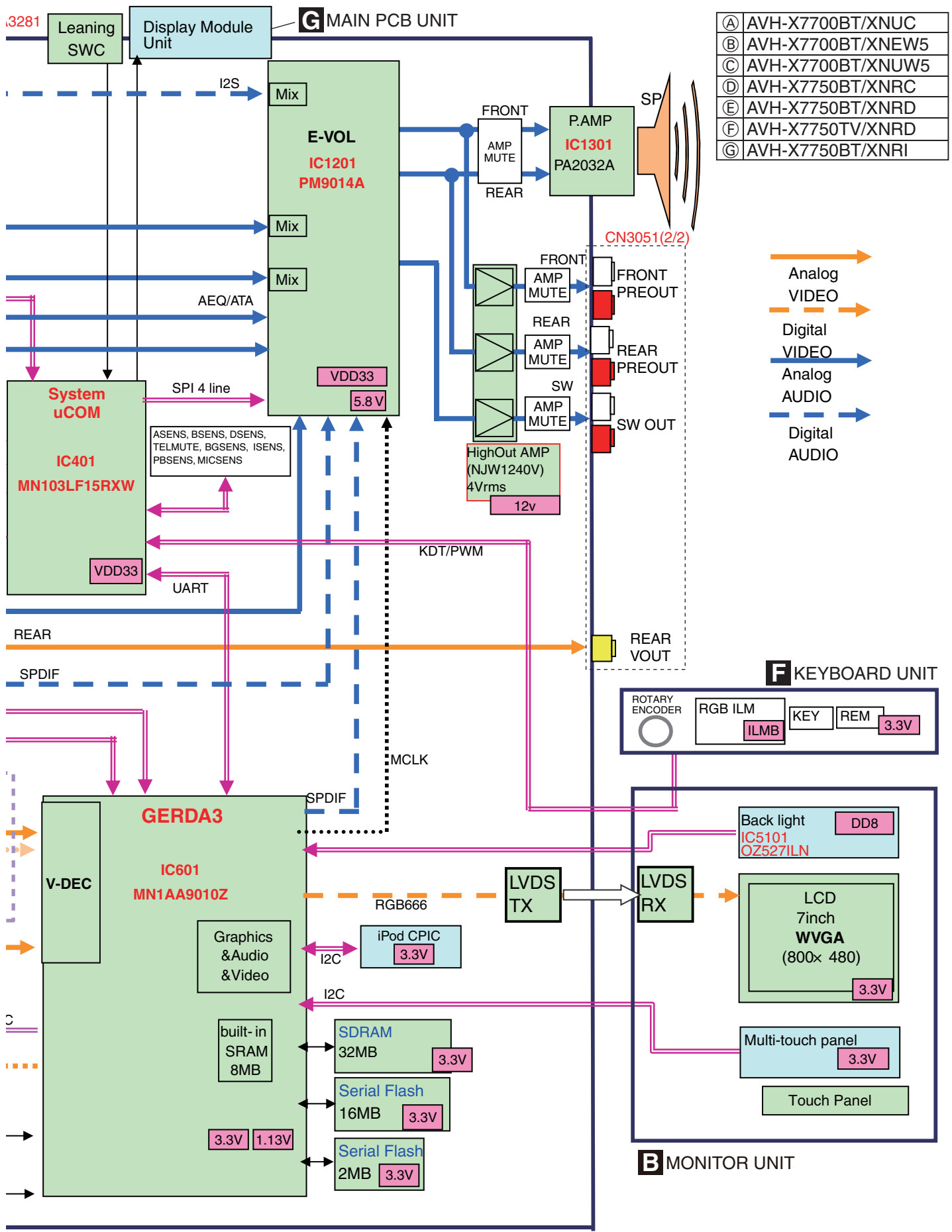
AVH-X7700BT/XNUC



4.2 BLOCK DIAGRAM

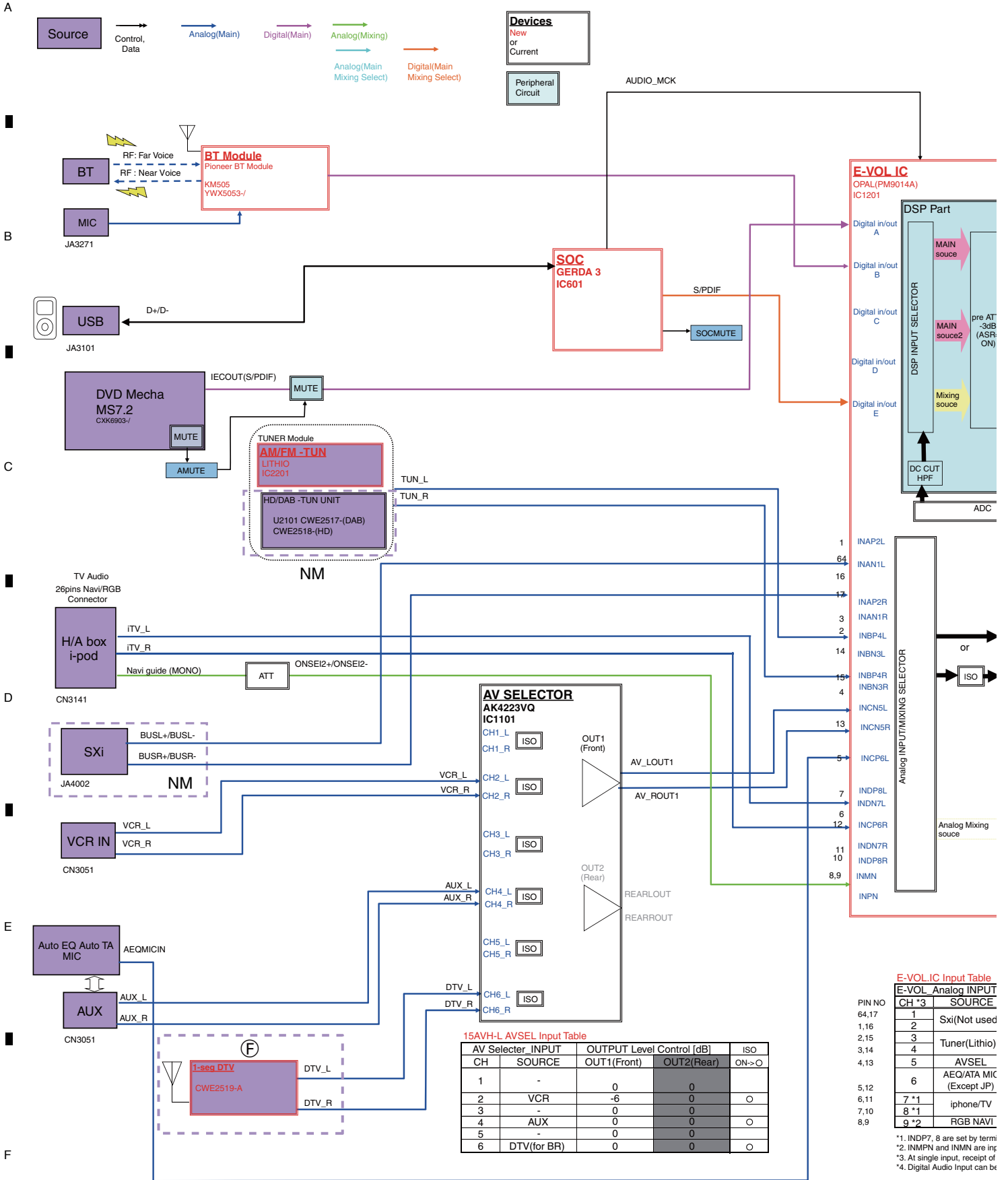
● SYSTEM BLOCK DIAGRAM





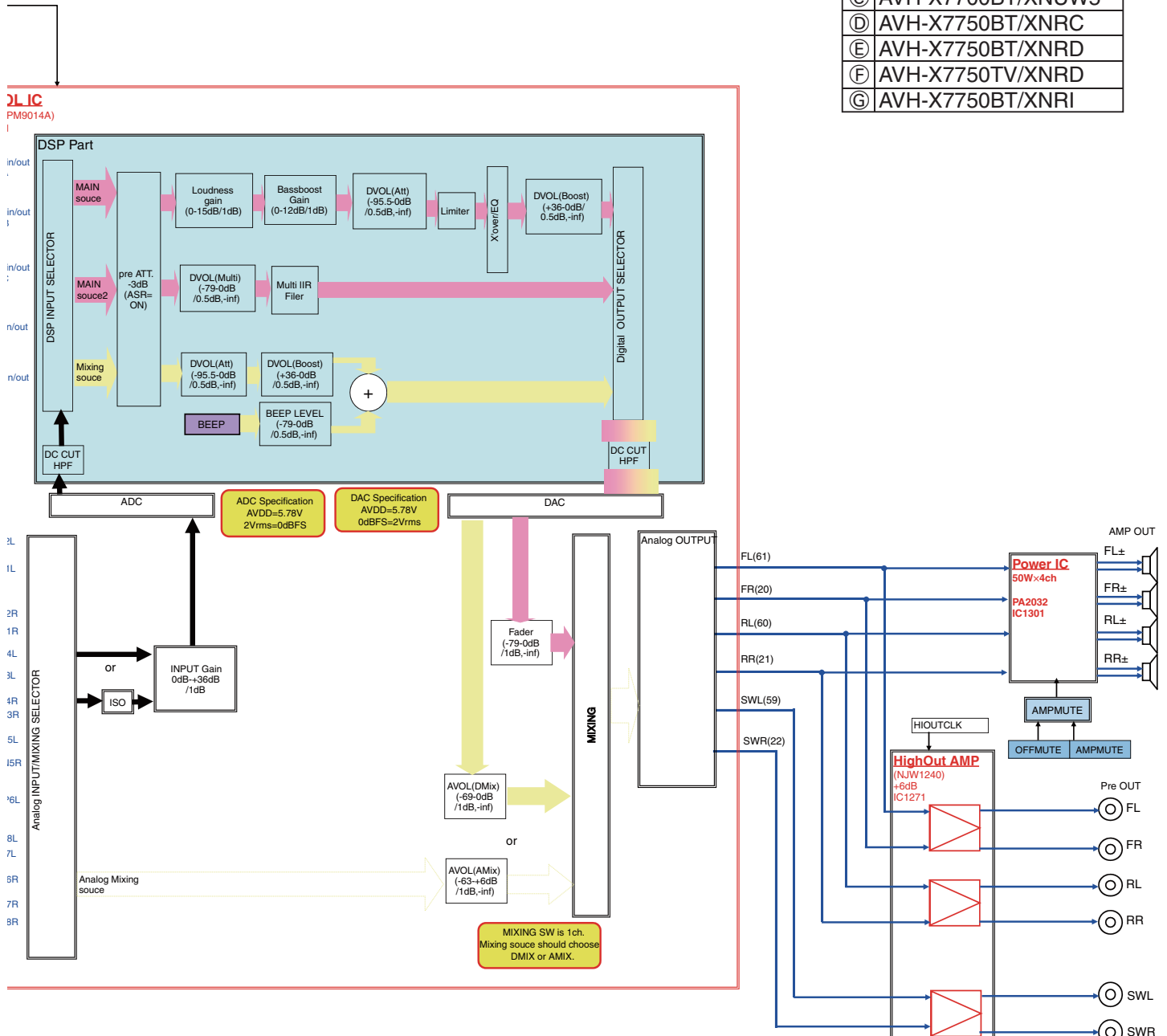
(A)	AVH-X7700BT/XNUC
(B)	AVH-X7700BT/XNEW5
(C)	AVH-X7700BT/XNUW5
(D)	AVH-X7750BT/XNRC
(E)	AVH-X7750BT/XNRD
(F)	AVH-X7750TV/XNRD
(G)	AVH-X7750BT/XNRI

AUDIO BLOCK DIAGRAM



A MOTHER UNIT

(A)	AVH-X7700BT/XNUC
(B)	AVH-X7700BT/XNEW5
(C)	AVH-X7700BT/XNUW5
(D)	AVH-X7750BT/XNRC
(E)	AVH-X7750BT/XNRD
(F)	AVH-X7750TV/XNRD
(G)	AVH-X7750BT/XNRI

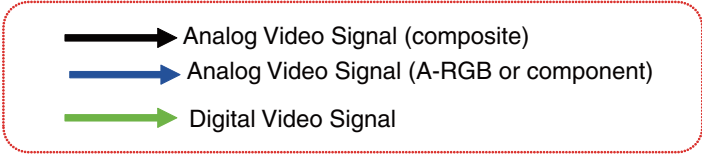


E-VOL IC Input Table

E-VOL Analog INPUT		ISO	E-VOL Digital INPUT		PIN NO
CH *3	SOURCE	Y-> O	CH *4	SOURCE	
1	Sxi(Not used)	○	A	DVD Mecha	28,29,30
2			B	BT	31,32,33
3	Tuner(Lithio)	○	C	-	35,36,37
4			D	-	45,46,47
5	AVSEL		E	SOC	48,49,50
6	AEO/ATA MIC (Except JP)		-		
7 *1	iphone/TV	○	-		
8 *1			-		
9 *2	RGB NAVI	○	-		

*1. INDP7, 8 are set by terminal resistor common to main source and mixing source (simultaneous use is also available).
 *2. INMPN and INMN are input dedicated to mixing. If differential is received by ISOLATOR, they become negative input of INDP8.
 *3. At single input, receipt of 8ch by ISOLATOR becomes 4CH.
 *4. Digital Audio Input can be also set to output depending on setting of resistor.

VIDEO BLOCK DIAGRAM



A

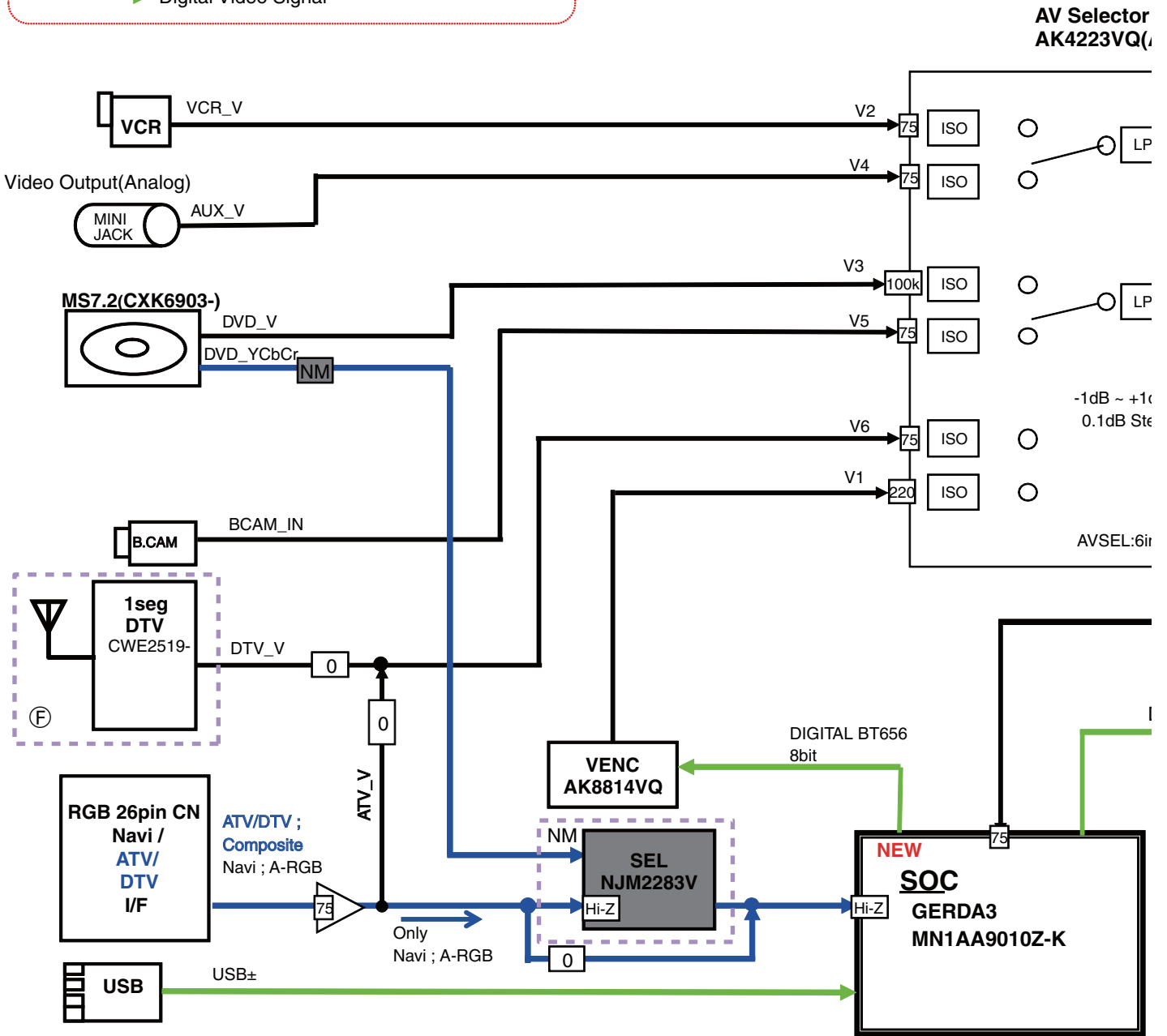
B

C

D

E

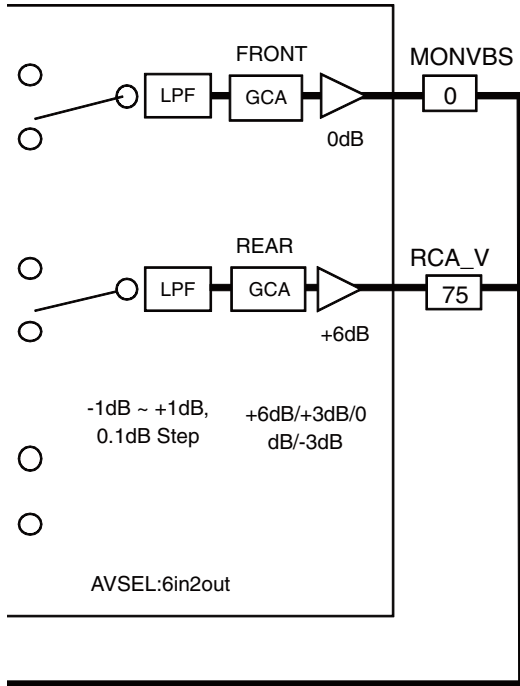
F



A MOTHER UNIT

(A)	AVH-X7700BT/XNUC
(B)	AVH-X7700BT/XNEW5
(C)	AVH-X7700BT/XNUW5
(D)	AVH-X7750BT/XNRC
(E)	AVH-X7750BT/XNRD
(F)	AVH-X7750TV/XNRD
(G)	AVH-X7750BT/XNRI

AV Selector IC AK4223VQ(AKM)

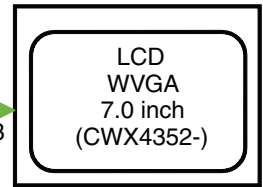


Rear Monitor Out



B MONITOR UNIT

Front Monitor Out



D-RGB
6bit x 3

LCDS±

D-RGB
6bit x 3



10Z-K

AV SELECTOR INPUT	
	VIDEO
1	VENC
2	VCR
3	DVD(MS7.2)
4	AUX
5	BCAM_IN
6	DTV/ATV

4.3 POWER SUPPLY SYSTEM FIGURE

1

2

3

4

A

A MOTHER UNIT

B.UP	
min	10.8 V
Typ.	14.4 V
max	15.1 V



Choke coil

3.3V VDD33	
NJW4181U3-33B	
typ	26.8 mA
max	52.8 mA
	0.62 W

min 3.267V, max 3.333V

Precision: ±1% (IC simple substance)
Pd 2.4W
Iout(MAX) 100mA

*The loss of the DD converter calculates it for 80% of efficiency assumptions.

B

C

D

E

F

BUP

(A)	AVH-X7700BT/XNUC
(B)	AVH-X7700BT/XNEW5
(C)	AVH-X7700BT/XNUW5
(D)	AVH-X7750BT/XNRC
(E)	AVH-X7750BT/XNRD
(F)	AVH-X7750TV/XNRD
(G)	AVH-X7750BT/XNRI

SYSB 8.0V	
NJW4184DL3-08A	
typ	45.0 mA
max	70.0 mA
	0.50 W

min 7.92V, max 8.08V

Precision: ±1% (IC simple substance)
Pd 3125mW
Iout(MAX) 300mA

DDC33

NM

VD5

VD8

DDC33

Overcurrent detection level	min	typ	max
USB5	2.7142	4.459	7.0094 A

DDC USB5	
AN33014UA	
typ	500.3 mA
max	1500.3 mA
	5.0 V
	2.66596 W
min	4.95 V
max	5.10 V

Prex
Pd 1
Iout

VDCNT5	
DDC33	
KBD9876EFJ	
min	3.293 V
max	3.407 V
typ	754.5 mA
max	2183.4 mA
	2.592 W

3300µF

KBUP

VD5

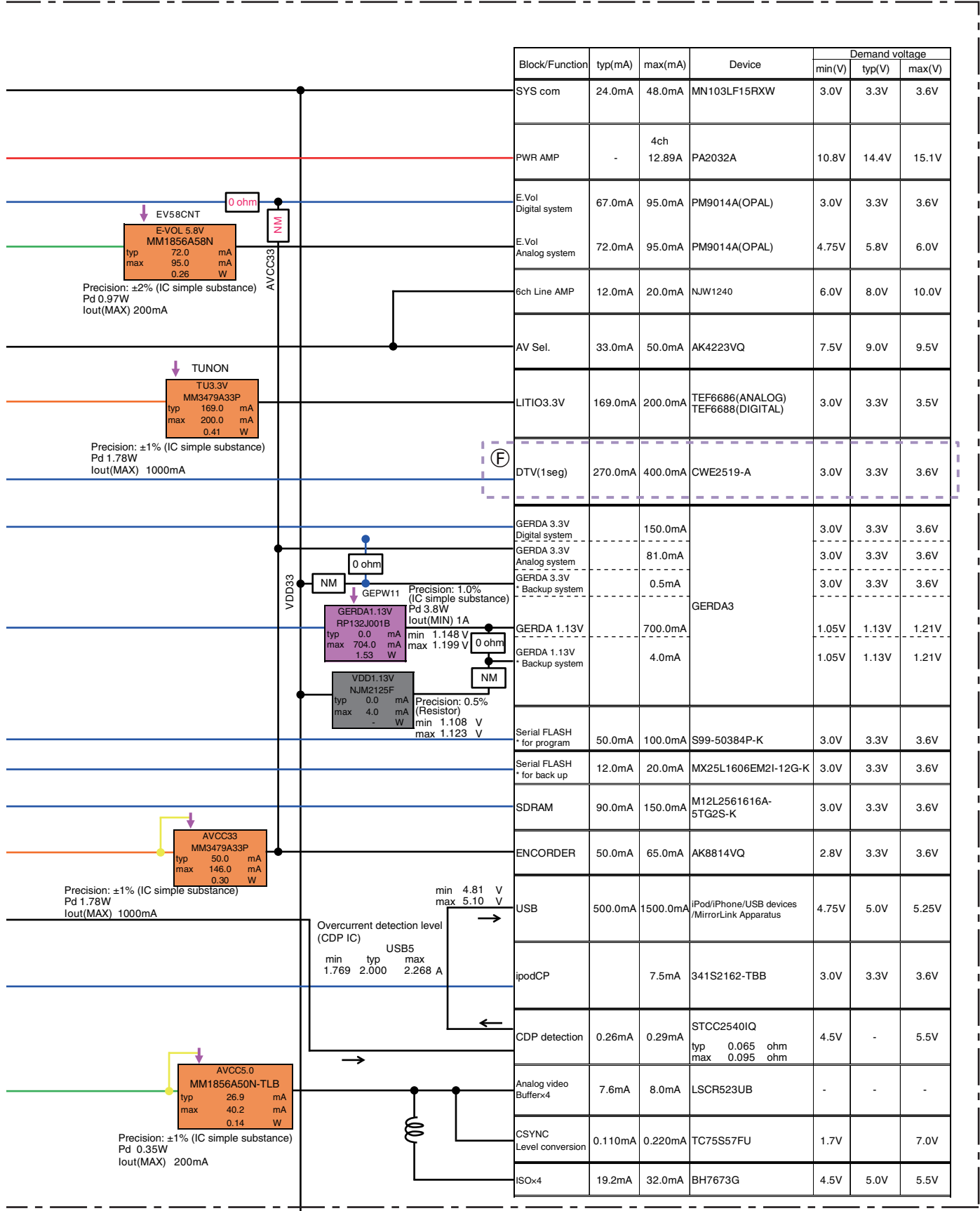
VD8

1

2

3

4



Block/Function	typ(mA)	max(mA)	Device	Demand voltage		
				min(V)	typ(V)	max(V)
SYS com	24.0mA	48.0mA	MN103LF15RXW	3.0V	3.3V	3.6V
PWR AMP	-	4ch 12.89A	PA2032A	10.8V	14.4V	15.1V
E.Vol Digital system	67.0mA	95.0mA	PM9014A(OPAL)	3.0V	3.3V	3.6V
E.Vol Analog system	72.0mA	95.0mA	PM9014A(OPAL)	4.75V	5.8V	6.0V
6ch Line AMP	12.0mA	20.0mA	NJW1240	6.0V	8.0V	10.0V
AV Sel.	33.0mA	50.0mA	AK4223VQ	7.5V	9.0V	9.5V
LITIO3.3V	169.0mA	200.0mA	TEF6686(ANALOG) TEF6688(DIGITAL)	3.0V	3.3V	3.5V
DTV(1seg)	270.0mA	400.0mA	CWE2519-A	3.0V	3.3V	3.6V
GERDA 3.3V Digital system	-	150.0mA	GERDA3	3.0V	3.3V	3.6V
GERDA 3.3V Analog system	-	81.0mA		3.0V	3.3V	3.6V
GERDA 3.3V Backup system	-	0.5mA		3.0V	3.3V	3.6V
GERDA 1.13V	-	700.0mA		1.05V	1.13V	1.21V
GERDA 1.13V Backup system	-	4.0mA	1.05V	1.13V	1.21V	
Serial FLASH * for program	50.0mA	100.0mA	S99-50384P-K	3.0V	3.3V	3.6V
Serial FLASH * for back up	12.0mA	20.0mA	MX25L1606EM2I-12G-K	3.0V	3.3V	3.6V
SDRAM	90.0mA	150.0mA	M12L2561616A-5TG2S-K	3.0V	3.3V	3.6V
ENCORDER	50.0mA	65.0mA	AK8814VQ	2.8V	3.3V	3.6V
USB	500.0mA	1500.0mA	iPod/iPhone/USB devices MirrorLink Apparatus	4.75V	5.0V	5.25V
ipodCP	-	7.5mA	341S2162-TBB	3.0V	3.3V	3.6V
CDP detection	0.26mA	0.29mA	STCC2540IQ typ 0.065 ohm max 0.095 ohm	4.5V	-	5.5V
Analog video Bufferx4	7.6mA	8.0mA	LSCR523UB	-	-	-
CSYNC Level conversion	0.110mA	0.220mA	TC75S57FU	1.7V	-	7.0V
ISOx4	19.2mA	32.0mA	BH7673G	4.5V	5.0V	5.5V

A MOTHER UNIT

B MONITOR UNIT

(1) VDCNT8 (2) VDCNT5

2ch DDC			
AN33012UA			
(1)VD8+(2)VD5			
Vin Max	34V	Setup: (2)-(1)	
IN	8.10	OUT	V
Typ	941.0	mA	957.2
Max	2605.5	mA	2650.6
	7.61	W	
Typ	221.4	mA	5.20
Max	546.1	mA	494.0
			857.0
			1.58

Overcurrent detection level	min	typ	max
8V	3.3058	4.546	5.877
5V	3.1579	4.167	5.614

typ 1162.4mA
max 3151.6mA

VD8 min 7.910 V
max 8.379 V

VD5 min 5.033 V
max 5.324 V

895.0 mA

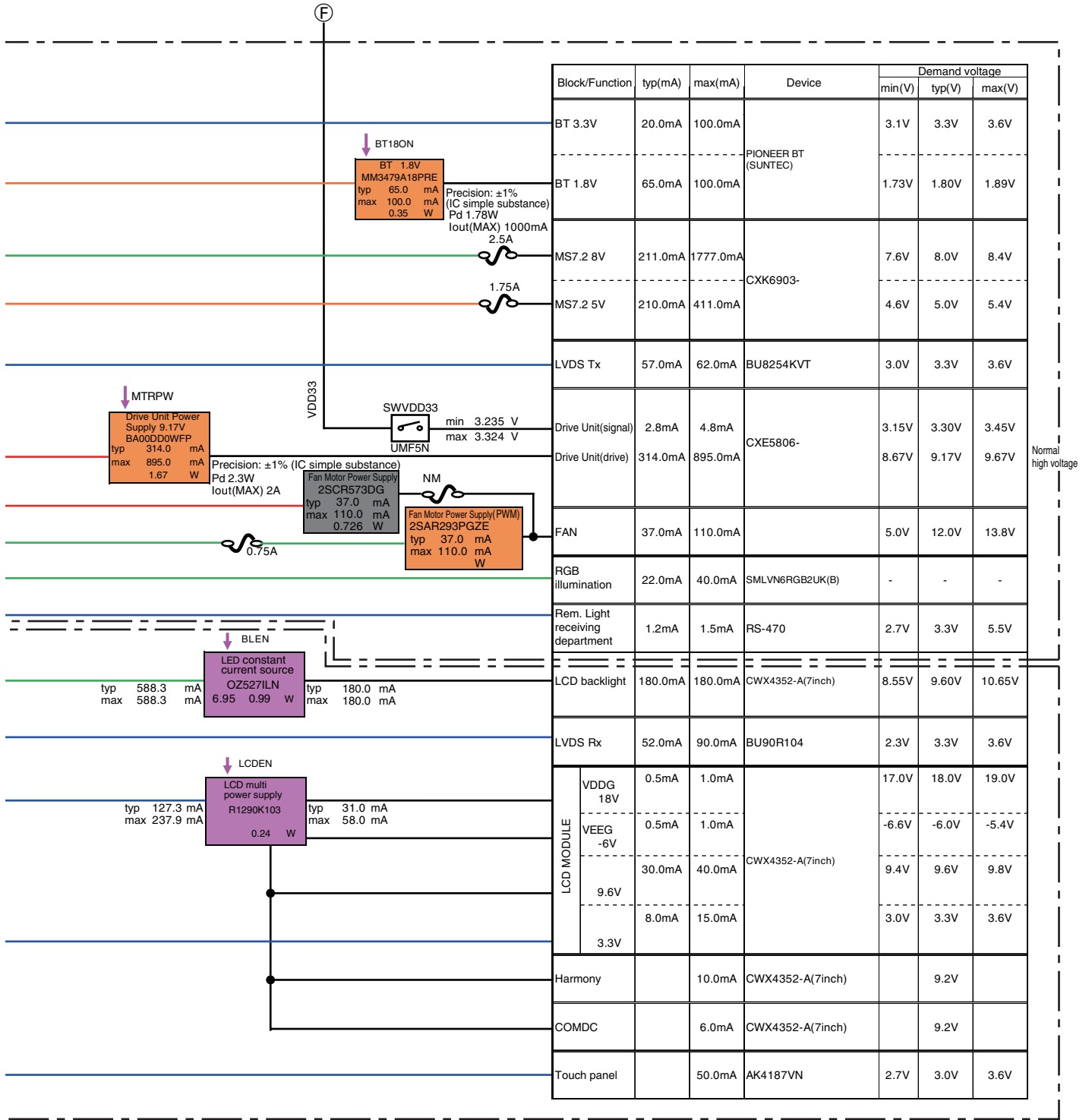
1.5A(Provisionally)

588.3mA

392.9mA

0.75A

typ 588.3 mA
max 588.3 mA



5. DIAGNOSIS

5.1 OPERATIONAL FLOWCHART

A

VDD : pin 26

BSEN \bar{S} : pin 124

ASENS : pin 125

DSENS : pin 123

C

MECHA STB : pin 31

ASENBO : pin 112

D

DDCCLK : pin 73

VDCNT5 : pin 77

VDCNT8 : pin 78

LCDPW : pin 81

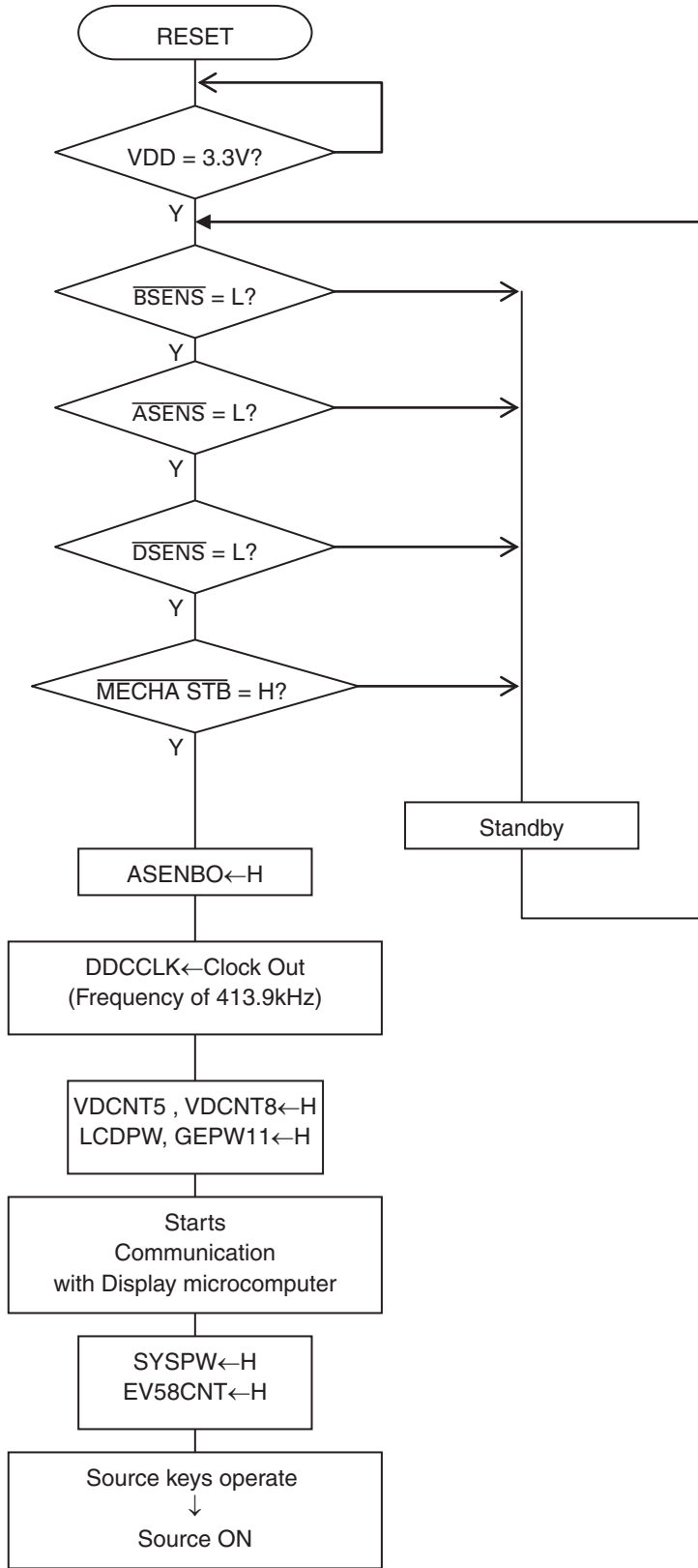
GEPW11 : pin 37

E

SYSPW : pin 74

EV58CNT:pin 62

F



5.2 INSPECTION METHOD OF PICKUP UNIT

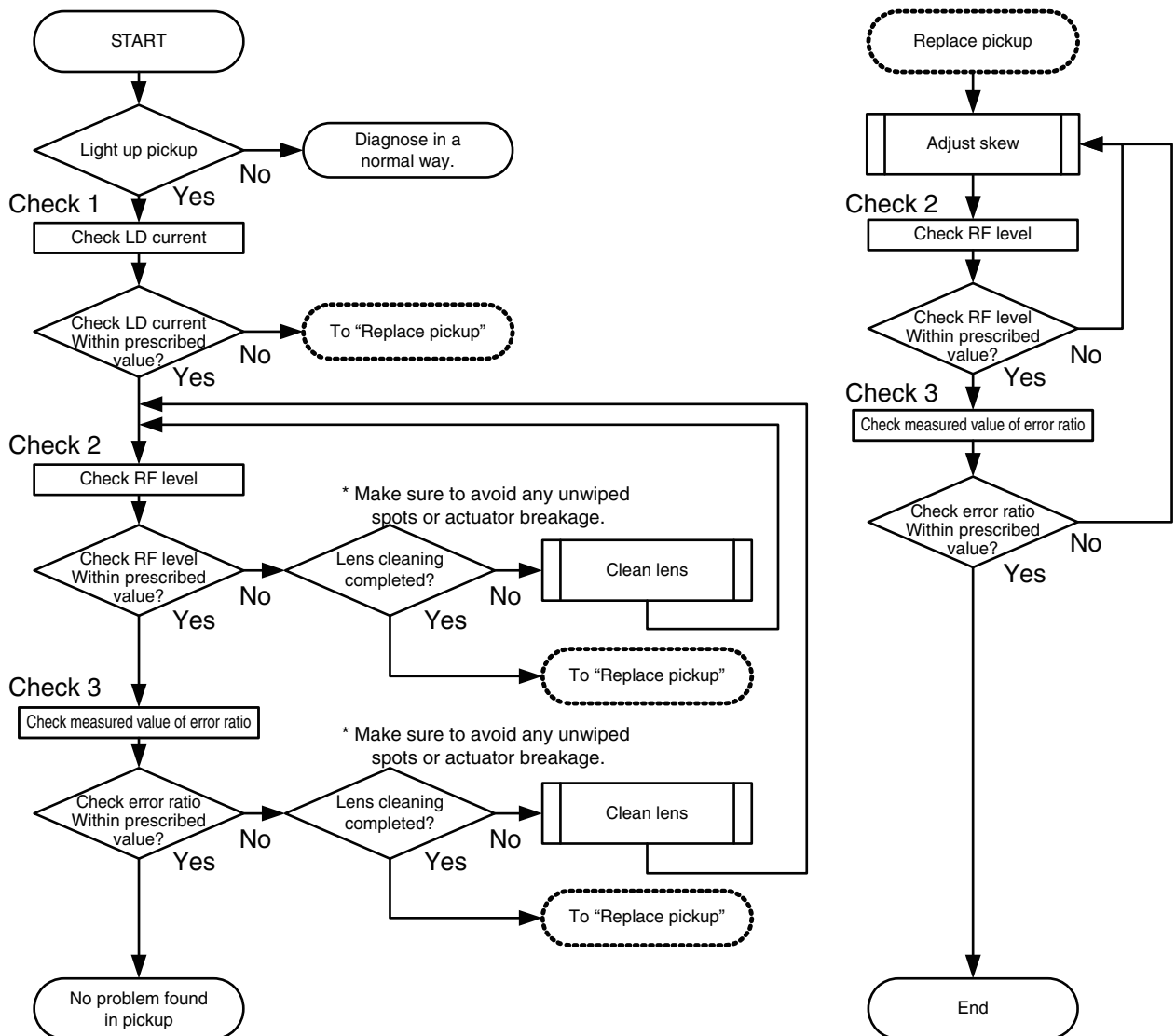
Judgement of pickup conditions

- Disc used:
 CD-DA : TCD-782
 DVD-Video : GGV1025

* Handle or store discs with care as scratched or dirty discs cannot provide accurate judgement.

- How to diagnose

* For the details of checks 1 to 3, see the next page.
 See also the mecha test mode described in the service manual.

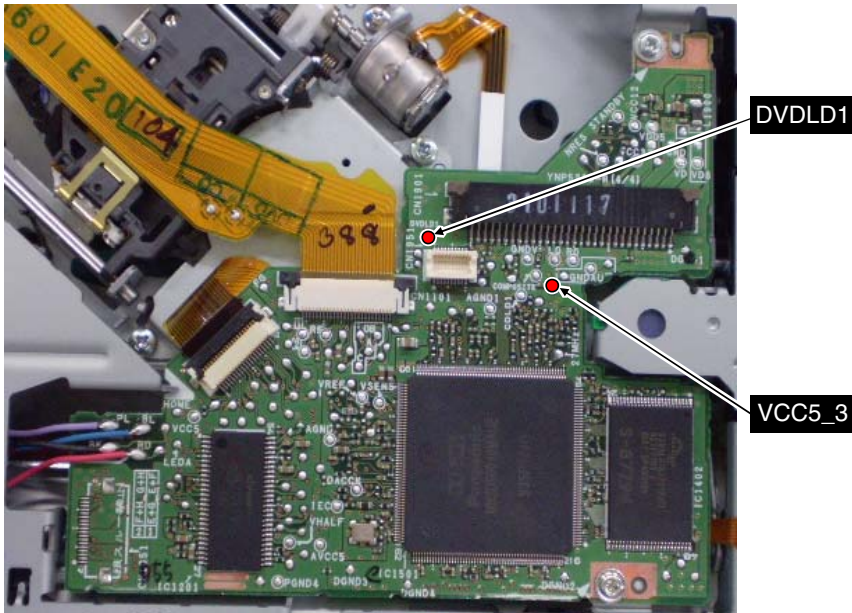


Check 1: Check LD current

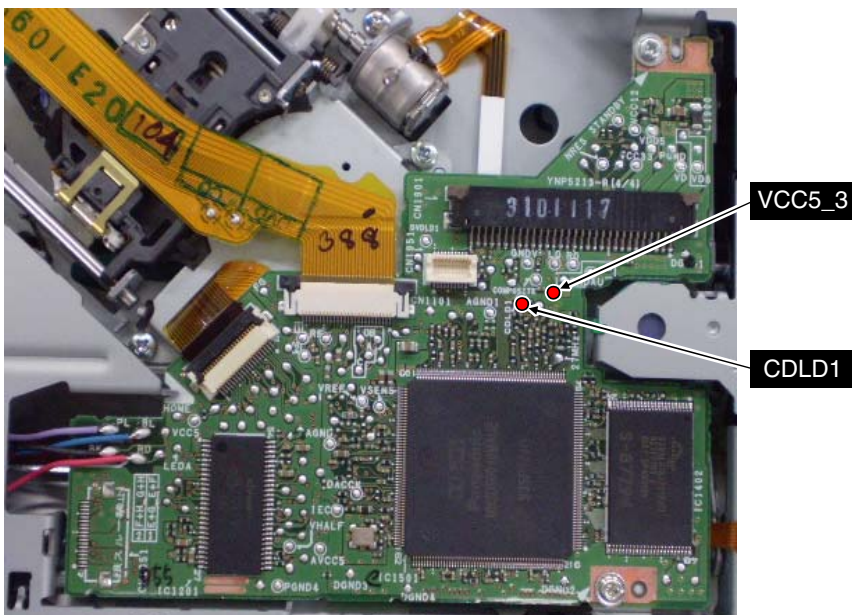
<Check>

A Check the voltage value between terminals in the focus closed status in the test mode.

NO.	Disc used	Spot to check	Rated value	Remarks: LD current value (ref.)
1	GGV1025	DVDLD1-VCC5_3	88~572(mV)	10~65(mA)



NO.	Disc used	Spot to check	Rated value	Remarks: LD current value (ref.)
2	TCD-782	CDLD1-VCC5_3	150~900(mV)	10~60(mA)



Mind breakage of a laser diode caused by static electricity.

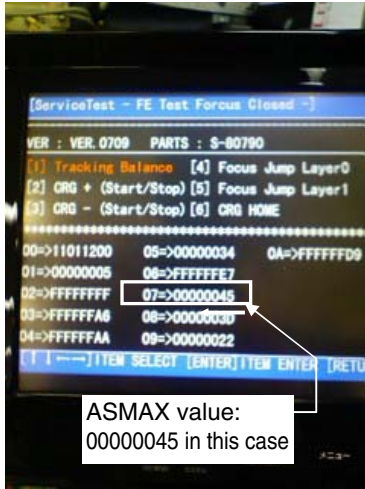
F

Check 2: Check RF level

<Check>

Check the "ASMAX value" on the test mode screen in the focus closed status in the test mode.

NO.	Disc used	Spot to check	Rated value	Remarks:
1	GGV1025	ASMAX value on test mode screen	0000 0026 or more (check)	RF level requiring gain + 6dBup (ASMAX level)
2	TCD-782	ASMAX value on test mode screen	0000 0029 or more (check)	RF level requiring gain + 6dBup (ASMAX level)

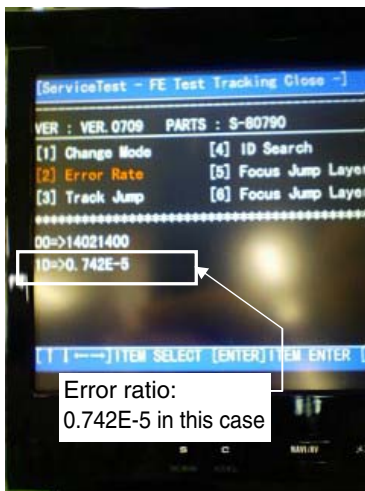


Check 3: Check measured values of error ratio

<Check>

Check the error ratio of a specified ID in the tracking closed status in the test mode.

NO.	Disc used	Spot to check	Rated value	Remarks:
1	GGV1025	ID : 40000	1.000E-3 or less	
2	GGV1025	ID : 200000	1.000E-3 or less	
3	TCD-782	ID : Home position	2.500E-3 or less	



5.3 DIAGNOSIS FLOWCHART FOR DVD UNIT

Refer to the DVD Mechanism Module Manual CX-3310 (CRT5669).

5.4 ERROR CODE LIST

Error status	OSD *1	UART *2	Meaning	Method of reset			
				ACC Off/On	Source Off/On	Eject/ With no device	Play Key
Media Error	UNPLAYABLE DISC	00h	A disc containing the unplayable format only	X	X	X	-
Read Error	ERROR-02-99	20h	Transfer start error	X	X	X	X
Focus Error(Focus Error in mechanism set up)	ERROR-02-90	21h	Focus error	X	X	X	X
Surface Error	ERROR-02-9E	22h	Focus error during set up (A focus has never been achieved with that disc)	-	-	X	-
Address not found (Invalid Track)	ERROR-02-80	23h	Address not found	X	X	X	X
Spindle Lock	ERROR-02-91	24h	Spindle lock NG(the disc cannot rotate)	X	X	X	X
Carriage HOME	ERROR-02-92	25h	Carriage home NG (The pickup tries to return to carriage home, but it cannot go back and stopped)	X	X	X	X
ID/SUBCODE Read Error	ERROR-02-94	26h	ID/SUBCODE Read Error (ID/SUBCODE cannot be read due to scratch or stain)	X	X	X	X
AV CHIP decode Error	ERROR-02-9A	2Ah	AV CHIP decode NG(AV chip cannot be decoded)	X	X	X	X
AV CHIP Recovery NG	ERROR-02-9B	2Bh	AV CHIP recovery NG	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
Disc Data Error	ERROR-02-9D	2Dh	Disc Data NG	X	X	X	X
Temp Error (In Case of High Temperature)	THERMAL PROTECTION IN MOTION	30h	High temperature(Playback is stopped because the pickup is high temperature)	X	-	-	-
No Disc (including Disc loading and ejecting)	(No display)	40h	Disc has not been inserted (Including Load in process or Eject in process)	*	*	*	*
Loading_Mecha Error	(No display)	50h	Loading mechanism error (The disc cannot be clamped)	X	-	X	-
DRM Error	PROTECTED DISC	70h	DRM error (All music cannot be played back due to DRM)	X	X	X	-
Region code Error	DIFFERENT REGION DISC	90h	Region code NG (Unable to be played back due to incorrect mechanism region)	X	X	X	-
CPRM*7 Key Error *8	UNPLAYABLE DISC	93h	Key Error for playback	X	X	X	-
REQUEST Error	ERROR-02-A0	A0h	REQUEST_error	X	X	X	X
Failure in issuing read command (chip dependent)	ERROR-02-A1	A1h	Failure in issuing the read command	X	X	X	X
Adjustment of L0 is NG	ERROR-02-A2	A2h	L0 adjustment is NG	X	X	X	X
Adjustment of L1 is NG	ERROR-02-A3	A3h	L1 adjustment is NG	X	X	X	X
LD system NG	ERROR-02-A4	A4h	LD system NG	X	X	X	X
Gain adjustment system NG	ERROR-02-A5	A5h	Gain adjustment system NG	X	X	X	X
Gain determining system NG	ERROR-02-A6	A6h	Gain determining system NG	X	X	X	X
Servo initial setting related items NG	ERROR-02-A7	A7h	Servo initial setting related items NG	X	X	X	X
Disc is not clamped yet	ERROR-02-A8	A8h	Disc is not clamped yet	X	X	X	X
Tracking system NG	ERROR-02-A9	A9h	Tracking system NG	X	X	X	X
Media setting system NG	ERROR-02-AA	AAh	Media setting system NG	X	X	X	X
Focus Error	ERROR-02-AB	ABh	JUMP over layers NG	X	X	X	X
Error of PLAY BACK Mode Status	ERROR-02-B0	B0h	Navigation command error	X	X	X	X
Error of PLAY BACK Mode Status	ERROR-02-B1	B1h	Retry over	X	X	X	X
DivX DRM Information Update Error *10	ERROR-02-C1	C1h	DivX DRM information update error	X	-	-	-
Undefined Error	ERROR-FF-FF	FFh	Undefined error	X	X	X	X

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

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

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

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

*8 DVD-VR model only.

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

Common

AMP Error

- This product fails to operate or the speaker connection is incorrect; the protective circuit is activated.
 - Check the speaker connection.
 - Check the power IC and its peripheral circuit.

Product overheat. System will be shut down automatically in 1 minute. Restart the product by ACC Off/On may fix this problem. If this message keep showing up, it is possible that some problem occurred in the product.

- The temperature is too high for this product to operate.
 - Follow the instructions displayed on the screen. If this does not solve the problem, contact your dealer or an authorized Pioneer Station for assistance.

Pandora

Error-19

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

Skip limit reached.

- Skip limit reached.
 - Do not exceed the skip limit.
 - Due to music licensing restrictions, Pandora limits the total number of skips per hour.

Check Device

- Device error message displayed in Pandora application.
 - Please check your connected device.

Incompatible USB

- The connected USB storage device is not supported by this product.
 - Disconnect your device and replace it with a compatible USB storage device.

Check USB

- The USB connector or USB cable has short-circuited.
 - Check that the USB connector or USB cable is not caught in something or damaged.
- The connected USB storage device consumes more than maximum allowable current.
 - Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB storage device.

Disc

Error-02-XX/FF-FF

- The disc is dirty.
 - Clean the disc.
- The disc is scratched.
 - Replace the disc.
- The disc is loaded upside down.
 - Check that the disc is loaded correctly.
- There is an electrical or mechanical error.
 - Press the **RESET** button.

Different Region Disc

- The disc does not have the same region number as this product.
 - Replace the DVD with one bearing the correct region number.

Unplayable Disc

- This type of disc cannot be played on this product.
 - Replace the disc with one that can be played on this product.

Unplayable File

- This type of file cannot be played on this product.
 - Select a file that can be played.

Skipped

- The inserted disc contains DRM protected files.
 - The protected files are skipped.

Protect

- All the files on the inserted disc are embedded with DRM.
 - Replace the disc.

TEMP

- The temperature of this product is outside the normal operating range.
 - Wait until this product returns to a temperature within the normal operating limits.

This DivX rental has expired.

- The inserted disc contains expired DivX VOD content.
 - Select a file that can be played.

Video resolution not supported

- Files that cannot be played on this product are included in the file.
 - Select a file that can be played.

Unable to write to flash memory.

- The playback history for VOD contents cannot be saved for some reason.
 - Retry.
 - If the message appears frequently, consult your dealer.

Your device is not authorized to play this DivX protected video.

- This product's DivX registration code has not been authorized by the DivX VOD contents provider.
 - Register this product to the DivX VOD contents provider.

Video frame rate not supported

- DivX file's frame rate is more than 30 fps.
 - Select a file that can be played.

Audio Format not supported

- This type of file is not supported on this product.
 - Select a file that can be played.

USB storage device

Error-02-9X-DX

- Communication failed.
 - Turn the ignition switch OFF and back ON.
 - Disconnect the USB storage device.
 - Change to a different source. Then, return to the USB storage device.

Unplayable File

- This type of file cannot be played on this product.
 - Select a file that can be played.
- Security for the connected USB storage device is enabled.
 - Follow the USB storage device instructions to disable security.

Skipped

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

Protect

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

Incompatible USB

- The connected USB storage device is not supported by this product.
 - Disconnect your device and replace it with a compatible USB storage device.

Check USB

- The USB connector or USB cable is short-circuited.
 - Check that the USB connector or USB cable is not caught in something or damaged.
- The connected USB storage device consumes more than maximum allowable current.
 - Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB storage device.

Video resolution not supported

- Files that cannot be played on this product are included in the file.
 - Select a file that can be played.

- A** **USB was disconnected for device protection. Do not re-insert this USB memory into the unit. Please reset the unit.**
- The USB connector or USB cable is short-circuited.
 - Check that the USB connector or USB cable is not caught in something or damaged.
 - The connected USB storage device consumes more than maximum allowable current.
 - Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB storage device.
 - The USB interface cable for iPod / iPhone is short-circuited.
 - Confirm that the USB interface cable for iPod / iPhone or USB cable is not caught in something or damaged.

Audio Format not supported

- This type of file is not supported on this product.
 - Select a file that can be played.

B

iPod

Error-02-6X/9X/-DX

- iPod failure.
 - Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.

Error-02-67

- The iPod firmware version is old.
 - Update the iPod version.

iTunes tagging

Error-8D

- Built-in FLASH ROM encountered an error.
 - Turn the ignition switch to OFF and then to ON.

Tag store failed.

- Tag information cannot be stored in this product.
 - Try again.

Already stored.

- This tag information is already stored in memory.
 - Tag information can only be saved once for any given song. Tag information cannot be saved for the same song more than once.

Memory full. Connect iPod.

- The tag information is successfully stored. The flash memory of this product has become full.
 - The tag information on this product is transferred to the iPod automatically when an iPod is connected.

D

Memory full. Tags not stored. Connect iPod.

- This product's flash memory used as the temporary storage area is full.
 - The tag information on this product is transferred to the iPod automatically when an iPod is connected.

iPod full. Tags not transferred.

- Memory used for tag information on the iPod is full.
 - Sync the iPod with iTunes and clean up the tagged playlist.

Tag transfer failed. Reconnect your iPod.

- This product's tag information cannot transfer to the iPod.
 - Check the iPod and try again.

E

Bluetooth

Error-10

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

F

MirrorLink

The application list could not be read out.

- Failed to load the application list.
 - Disconnect the cable from the smartphone, and then connect the smartphone again after a few seconds.
 - Turn the ignition switch to OFF and then to ON. If the error message is still displayed after performing the above action, reset the smartphone. If the error message is still displayed after performing the above action, please contact your dealer or an authorized Pioneer Service Station.

There is no supported application on your MirrorLink device.

- No supported applications can be found.
 - Install **MirrorLink** compliant applications to your **MirrorLink** device.

Communication error occurred.

- There was a communication error.
 - Disconnect the cable from the smartphone, and then connect the smartphone again after a few seconds.
 - Turn the ignition switch to OFF and then to ON. If the error message is still displayed after performing the above action, reset the smartphone. If the error message is still displayed after performing the above action, please contact your dealer or an authorized Pioneer Service Station.

Launching the application failed.

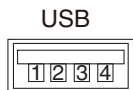
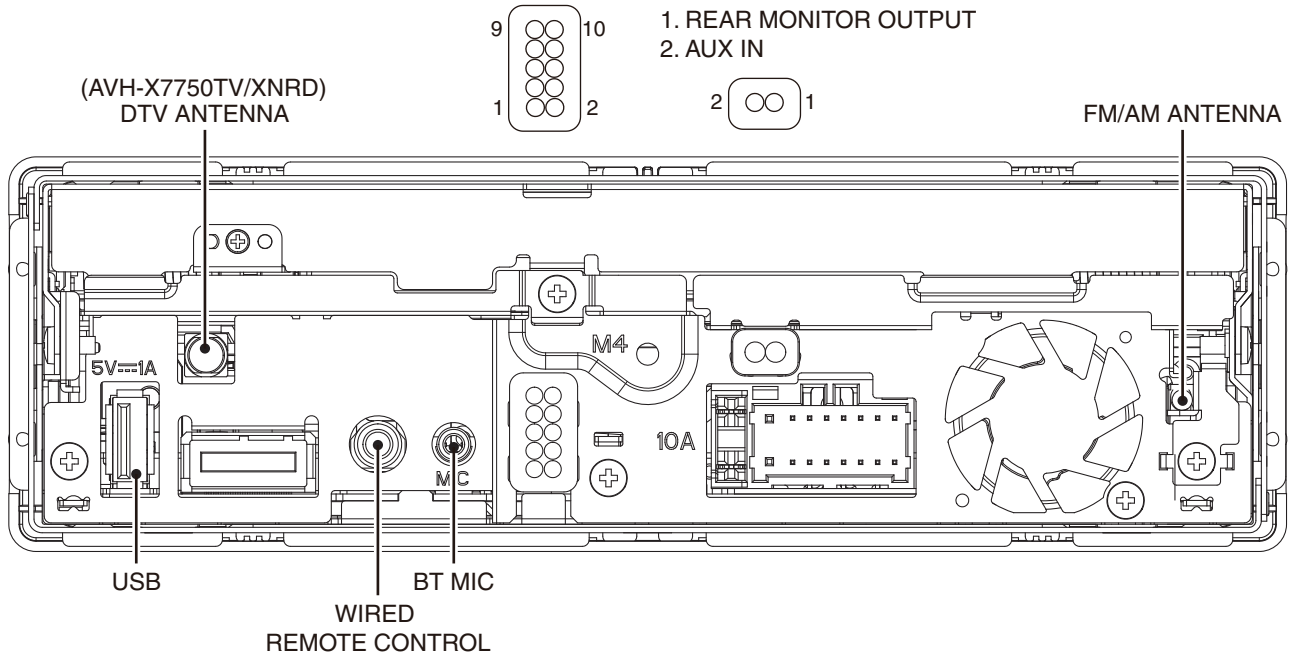
- Failed to launch the application.
 - Try again.

Failed to display the screen of your device because of irregular resolution.

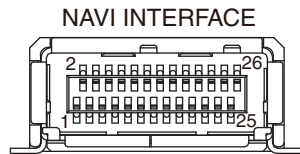
- The image size is too large.
 - The size of the images transferred from the device exceeds 800 × 480.

5.5 CONNECTOR FUNCTION DESCRIPTION

- 1. VIDEO INPUT
- 2. REAR VIEW CAMERA INPUT
- 3. AUDIO INPUT L
- 4. AUDIO INPUT R
- 5. FRONT OUTPUT L
- 6. FRONT OUTPUT R
- 7. REAR OUTPUT L
- 8. REAR OUTPUT R
- 9. SUBWOOFER OUTPUT L
- 10. SYBWOOFER OUTPUT R

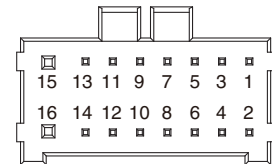


- 1 : USB5V
- 2 : USB D-
- 3 : USB D+
- 4 : GND



- | | | |
|------------|-------------|------------------|
| 1 : CCR | 10 : CCAUL | 19 : DSEN |
| 2 : CCG | 11 : CCAUR | 20 : TVON |
| 3 : CCB | 12 : GNDAU | 21 : GUIDE ON |
| 4 : CSYNC | 13 : ONSEI+ | 22 : MONON |
| 5 : GNDSIG | 14 : ONSEI- | 23 : IP5V |
| 6 : HSYNC | 15 : IPSDA | 24 : SYS TO NAVI |
| 7 : GNDD | 16 : IPSCL | 25 : NAVI TO SYS |
| 8 : VSYNC | 17 : NC | 26 : GNDD |
| 9 : ASENBO | 18 : IPVCLK | |

POWER SUPPLY



- | | |
|--------|---------------|
| 1. FL+ | 9. P. BRAKE |
| 2. FR+ | 10. TELMUTE |
| 3. FL- | 11. ILM |
| 4. FR- | 12. BREM/AANT |
| 5. RL+ | 13. ACC |
| 6. RR+ | 14. REV |
| 7. RL- | 15. B.UP |
| 8. RR- | 16. GND |

5.6 MECHANICAL DESCRIPTION

• Overview of FLAP operation

1. FLAP is operated by two motors; motor for backward and forward drive (EXA4013) and motor for angle drive (EXA4013).
2. To detect the operating status of angle and the operating position, the analog potential generated from angle encoder is detected.
3. The angle last position memory function memorizes the last position into MCU using 256 resolution STEP of VDD.
4. To detect the horizontal operating status, the analog signal of O/C/D SW* is detected.
5. At the reset start, the ejection operation is carried out and the system enters the startup status after entering storage status once.
6. The angle is adjusted with angle keys (+/-).
7. OPEN/CLOSE key stores and ejects the monitor. Temporary folding key temporarily folds the monitor.
8. On the navigation menu screen, monitor automatic storage ejection ON/OFF and setback ON/OFF when ACC is turned ON/OFF are set.

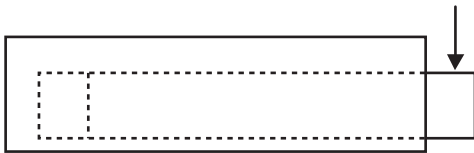
*O/C/D SW

Detection by OPENSW, CLOSESW and DEG0SW are consolidated to one pin and the signal is detected as an analog signal.

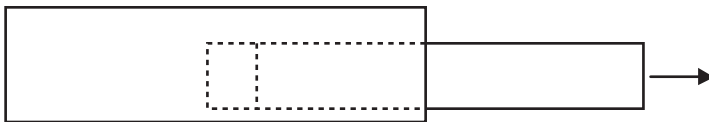
Status	Description	OPENSW	CLOSESW	DEG0SW	O/C/D SW	O/C/D SW voltage (V)		
					analog signal (AD)	MIN	TYP	MAX
1	Storage position	OFF	OFF	OFF	E8H ~ FFH	3.00	3.25	—
2	Horizontal indefinite position (angle 0 degree)	ON	ON	OFF	64H ~ 8CH	1.29	1.52	1.82
3	Eject position	OFF	ON	OFF	BAH ~ E7H	2.40	2.67	2.99
4	Rising	OFF	ON	ON	27H ~ 63H	0.51	1.02	1.28
5	Setback	ON	ON	ON	00H ~ 26H	—	0.00	0.50
5	Horizontal indefinite position (except angle 0 degree)	ON	ON	ON				
6	20mm before storage position	ON	OFF	OFF	8DH ~ B9H	1.82	2.07	2.39

• Description of FLAP ejection operation

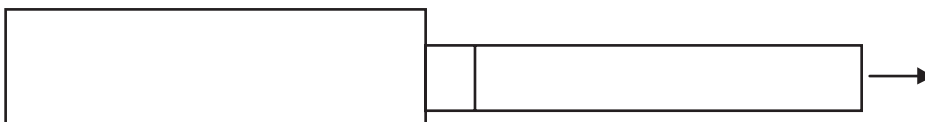
- (1) When OPEN key is pressed or the automatic switching setting is turned ON, the motor for angle drive is rotated in 0° direction for 500 ms (pushing operation is carried out) after ACC is set to ON.



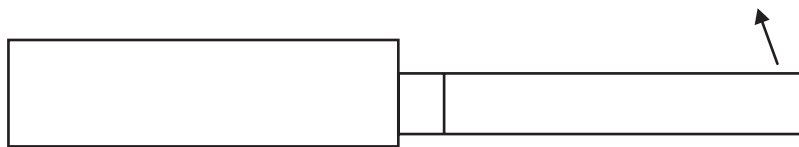
- (2) In 500 ms, the motor for angle drive is stopped and the motor for backward and forward drive is rotated in ejection direction.



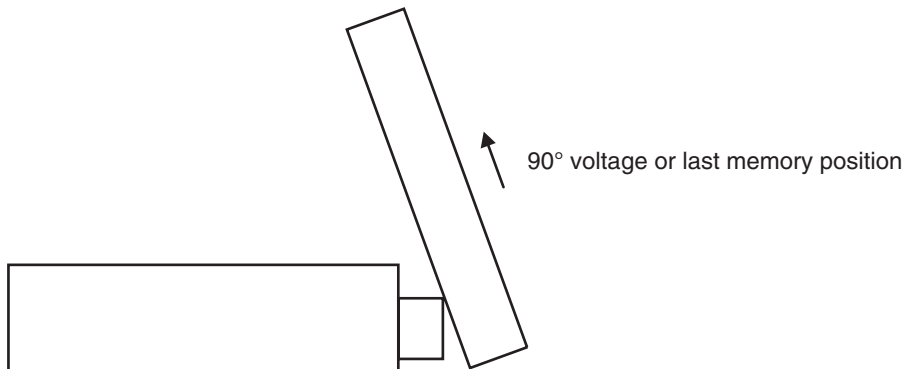
- (3) If the status of analog signal of O/C/D SW changes from 2 to 3, the motor for backward and forward drive is continuously rotated in ejection direction for 600 ms.



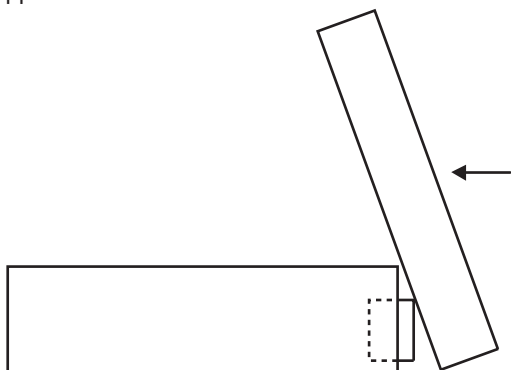
- (4) In 600 ms, the motor for backward and forward drive is stopped and the motor for angle drive is rotated in UP direction. A



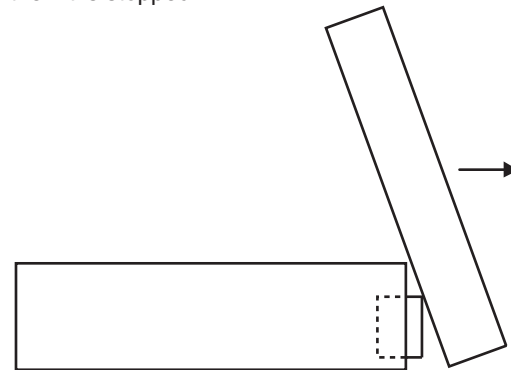
- (5) If the angle VOL voltage becomes approximately 90° voltage, the motor for angle drive is braked and the ejection is completed. (If the previous angle is memorized, the system operates at the angle)



- (6) If the setback setting is turned ON, the motor for angle drive is braked after the monitor angle voltage reaches the previous angle memory, and then the motor for backward and forward drive is rotated in the storage direction at low speed. After that, if the status of analog signal of O/C/D SW changes from 4 to 5, the motor for backward and forward drive is stopped.

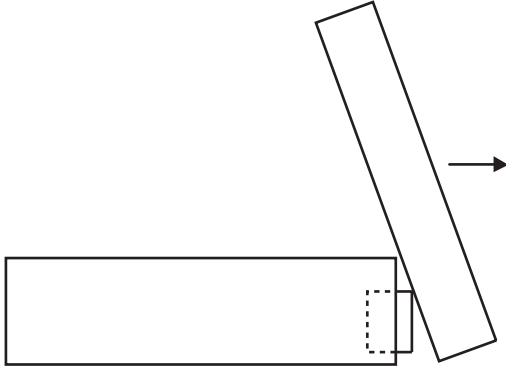


- (7) To remove the backlash of gear, the motor for backward and forward drive is rotated in horizontal ejection direction for 32ms, and then it is stopped.



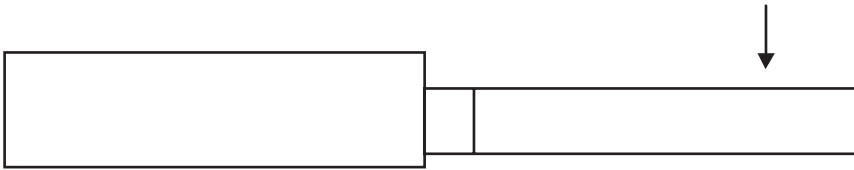
A • Description of FLAP storage operation

(1) When CLOSE key is pressed or the automatic switching setting is turned ON, the motor for angle drive is rotated in 0° direction in 6 seconds after ACC is set to ON. When the setback setting is turned ON, the motor for backward and forward drive is rotated in ejection direction at high speed. If the status of analog signal of O/C/D SW changes from 5 to 4, the motor is continuously rotated for 600 ms, and then the motor for angle drive is rotated in 0° direction.



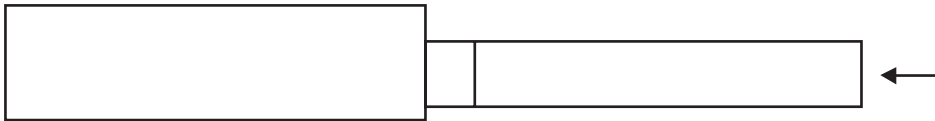
B

(2) After the status of analog signal of O/C/D SW changes from 4 to 3, the motor for angle drive is rotated in 0° direction for 900 ms and the pushing operation is carried out.



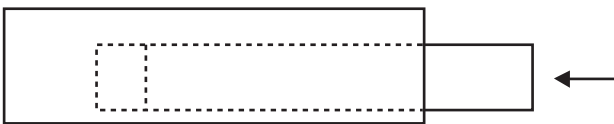
C

(3) In 900 ms, the motor for angle drive is braked and the motor for backward and forward drive is rotated in storage direction.



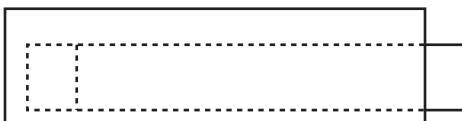
D

(4) If the status of analog signal of O/C/D SW changes from 2 to 6, the motor for backward and forward drive is rotated in storage direction at low speed.



E

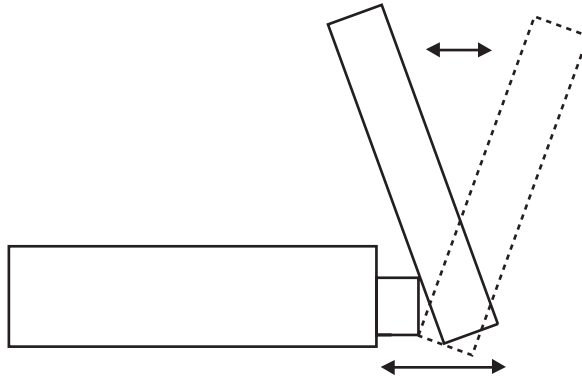
(5) In 700ms after the status of analog signal of O/C/D SW changes from 6 to 1, the motor is braked and the monitor storage is completed.



F

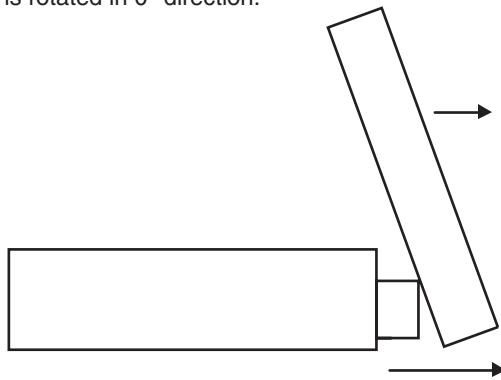
• Description of FLAP angle adjustment

- (1) From the monitor stop position, the motor for angle drive is rotated in UP direction and DOWN direction by + key and - key, respectively. If you keep pressing the key, the monitor continuously moves between approximately 50° and 100° in non-step manner. If you press the key when the setback setting is turned ON, the motor for backward and forward drive is rotated in horizontal ejection direction. In 600 ms after the status of analog signal of O/C/D SW changes from 5 to 4, the angle voltage is changed for the effective portion of angle adjustment key to adjust the angle. In 3 seconds after the adjustment, the motor for backward and forward drive is rotated in horizontal storage direction at low speed. If the status of analog signal of O/C/D SW changes from 4 to 5, the motor is braked.

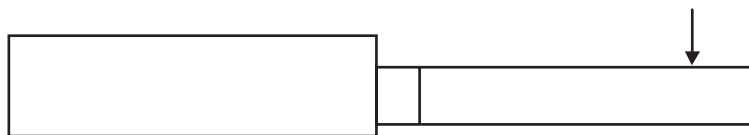


• Description of FLAP temporary folding operation

- (1) If you press the temporary folding key from the monitor stop position, the motor for angle drive is rotated in 0° direction. If you press the key when the setback setting is turned ON, the motor for backward and forward drive is rotated. In 600 ms after the status of analog signal of O/C/D SW changes from 5 to 4, the motor is braked, and then the motor for angle drive is rotated in 0° direction.



- (2) After the status of analog signal of O/C/D SW changes from 4 to 3, the motor for angle drive is rotated for 900 ms and the monitor is stopped at the horizontal position by brake. In 7 seconds after this operation, the navigation operation sound is output 3 times in 1-second intervals. In 10 seconds, the motor for angle drive rotates in angle UP direction and it is stopped at the last memory position by brake. If the setback setting is turned ON, the motor for angle drive stops at the last memory position, and then the motor for backward and forward drive rotates in horizontal storage direction at low speed. After the status of analog signal of O/C/D SW changes from 4 to 5, the motor stops.



• Precautions on FLAP operation

1. The angle position always checks the angle voltage and memorizes the last memory depending on increase and decrease of voltage. However, if the monitor is forcibly moved with a hand etc., it is not memorized.
2. If the analog signal of O/C/D SW does not change within the specified time during the horizontal operation, the system stops at the position.

• BackUp instantaneous interruption, operation by ON/OFF of Acc

	Status of FLAP	Automatic switching setting OFF			Automatic switching setting ON			
		BackUp instantaneous interruption	(1) Acc OFF	(1) → Acc ON	BackUp instantaneous interruption	(2) Acc OFF, Less than 6 seconds after Acc is turned OFF	(2) → ON	(3) In 6 seconds after Acc is turned OFF
0	FLAP position indefinite stop				Nothing is changed	Nothing is changed	Nothing is changed	FLAP position identifying operation started
1	Resetting the setback for identifying FLAP position				Nothing is changed	Nothing is changed	Nothing is changed	Operation continued
2	Flopping for identifying FLAP position				Nothing is changed	Nothing is changed	Nothing is changed	Operation continued
3	Storing for identifying FLAP position				Nothing is changed	Nothing is changed	Nothing is changed	Operation continued
4	Close stop	Nothing is changed	Nothing is changed (immediate standby)	Nothing is changed	Nothing is changed	Nothing is changed	Nothing is changed	Nothing is changed (to standby)
5	Stop avoiding obstacle in horizontal direction	Nothing is changed	Nothing is changed (immediate standby)	Nothing is changed	Nothing is changed	Nothing is changed	Nothing is changed	Nothing is changed
6	Ejecting	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Closing operation started
7	Forcibly ejecting	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued (close after forcible ejection)
8	Rising	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Closing operation started
9	Open stop	Nothing is changed	Nothing is changed (immediate standby)	Nothing is changed	Nothing is changed	Nothing is changed	Nothing is changed	Closing operation started
10	Stop avoiding obstacle in vertical direction	Nothing is changed	Nothing is changed (immediate standby)	Nothing is changed	Nothing is changed	Nothing is changed	Nothing is changed	Nothing is changed (to standby)
11	Setback shifting	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Closing operation started
12	Setback resetting	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued (close after reset)
13	Angle increasing	Operation stop	Operation stop	Nothing is changed	Operation stop	Nothing is changed	Nothing is changed	Closing operation started
14	Angle decreasing	Operation stop	Operation stop	Nothing is changed	Operation stop	Nothing is changed	Nothing is changed	Closing operation started
15	Waiting for angle adjustment	Nothing is changed (angle adjustment wait time continued)	Nothing is changed (angle adjustment wait time continued)	Nothing is changed (angle adjustment wait time continued)	Nothing is changed (angle adjustment wait time continued)	Nothing is changed (angle adjustment wait time continued)	Nothing is changed (angle adjustment wait time continued)	Closing operation started
16	Temporary folding shifting	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Closing operation started
17	Temporary folding stop	Nothing is changed (temporary folding waiting time continued)	Nothing is changed (temporary folding waiting time continued)	Nothing is changed (temporary folding waiting time continued)	Nothing is changed (temporary folding waiting time continued)	Nothing is changed (temporary folding waiting time continued)	Nothing is changed (temporary folding waiting time continued)	Closing operation started
18	Temporary folding resetting	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Closing operation started
19	Flopping	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued
20	Storing	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued	Operation continued

6. SERVICE MODE

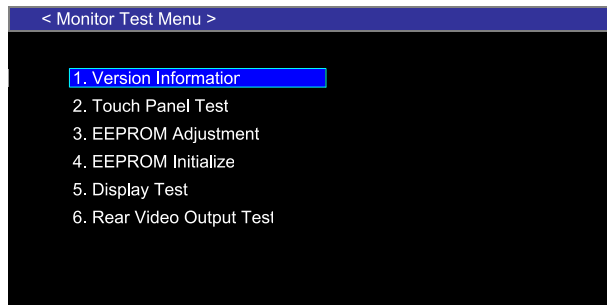
6.1 MONITOR TEST MODE



MONITOR TEST MODE MENU SCREEN

Method for Mode IN

While pressing [SRC] + [MODE] key, restart the system.

Display specification



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

1. Version Information

Method for Mode IN

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

Display specification

Page: 1

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

<Navi>



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

<EEPROM>

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

<Eject Lock>

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

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

Page: 2

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

Page: 3

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

Page: 4

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

Page: 5

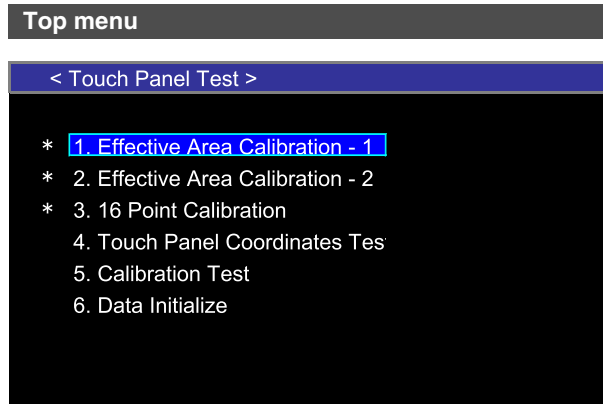
< Version Information >		Page : 5 / 5	
	Ver.		
17.SPU2 WMA Decode	: XXXXXXXX		
18.SPU2 Dolby Digital Decoder	: XXXXXXXX		
19.SPU2 MP3 Decode	: XXXXXXXX		

2. Touch Panel Test



Method for Mode IN

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

Display specification



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

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

1. Effective Area Calibration - 1

Outermost circle check screen

First point

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

Second point

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

Operational description	Remote controller key
Check is interrupted	Band

Outermost circle check result screen

Finished normally

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

Finished abnormally

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

Operational description	Remote controller key
Check is finished	Band

2. Effective Area Calibration - 2

Outermost circle check screen

First point

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

Second point

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

3rd point

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

4th point

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

Operational description	Remote controller key
Check is interrupted	Band

Outermost circle check result screen

Finished normally

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

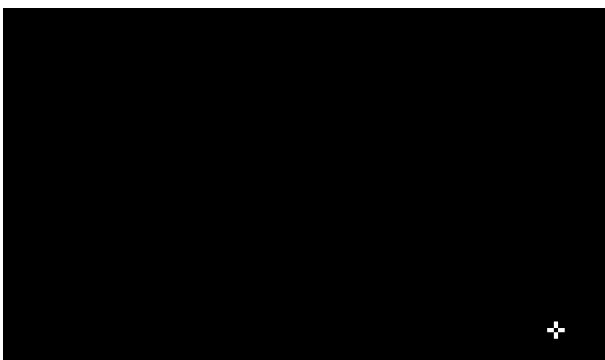
Finished abnormally

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

Operational description	Remote controller key
Check is finished	Band

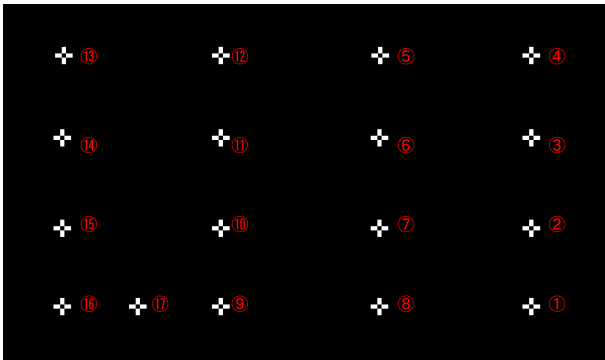
3. 16 Point Calibration

Calibration check screen



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

A



B

Operational description	Remote controller key
Return to top menu	Band

Calibration check result screen

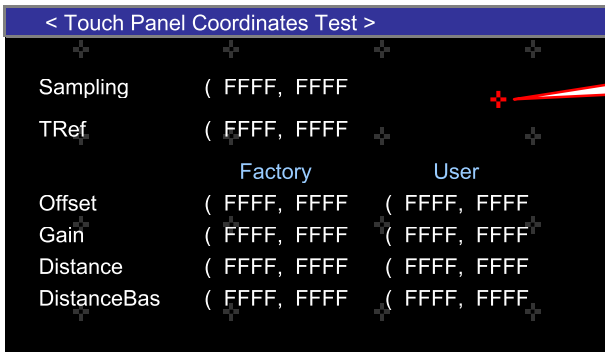


C

Operational description	Remote controller key
Return to top menu	Band

4. Touch Panel Coordinates Test

D



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

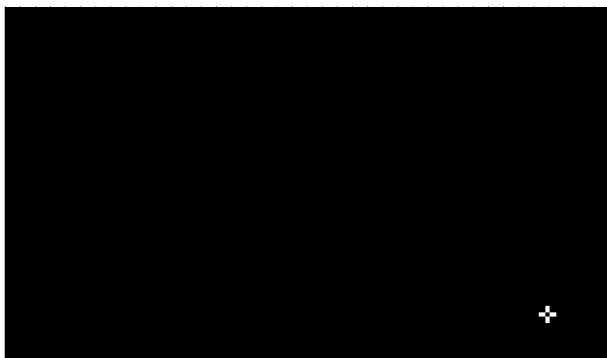
E

Operational description	Remote controller key
Return to top menu	RETURN

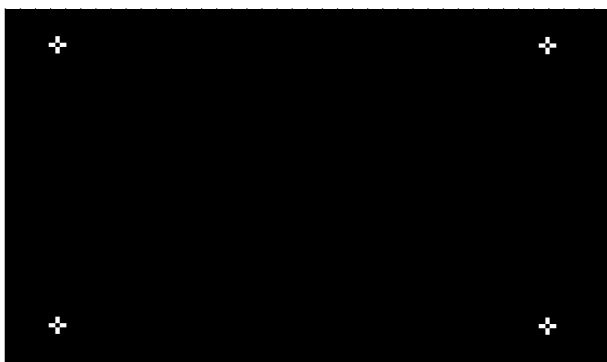
F

5. Calibration Test

Calibration confirmation screen

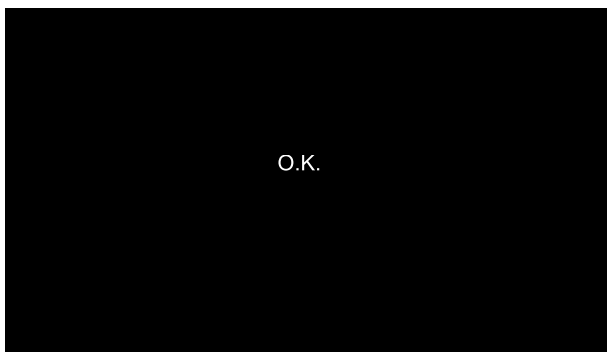


Touch the cursor [+] displayed on the screen. By touching it correctly, it disappears and another cursor appears. Otherwise, the cursor is displayed in red. Repeating this action for 4 points and by pressing the last 4th point, "O.K." is displayed.



Operational description	Remote controller key
Return to top menu	RETURN

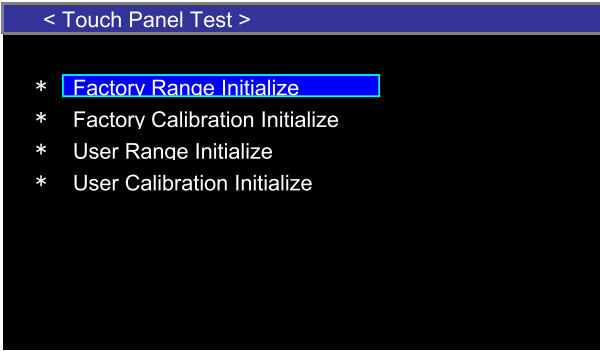
Calibration confirmation result screen



Operational description	Remote controller key
Return to top menu	RETURN

6. Data Initialize

A



B

- ◆ Condition that the mark meaning adjustment is completed, (*) is lit (the mark is lit when any of one condition is satisfied)
 - ◇ Outermost circle check
 - When “Outermost circle check of line calibration-1” is finished normally
 - When “Outermost circle check of line calibration-2” is finished normally
 - ◇ Calibration check
 - When “Calibration check of line calibration” is finished normally
 - ◇ Outermost circle check of user calibration
 - When “Outermost circle check of user calibration” is finished normally
 - ◇ User calibration check
 - When “Calibration check of user calibration” is finished normally



C

- ◆ Condition that the mark meaning adjustment is completed, (*) is extinguished (the mark is extinguished when any of one condition is satisfied)
 - ◇ Outermost circle check
 - When “conditions that the mark is lit” are not satisfied
 - When “Data Initialize is executed”
 - When “EEPROM initialize is executed”
 - ◇ Calibration check
 - When “conditions that the mark is lit” are not satisfied
 - When “Data Initialize is executed”
 - When “EEPROM initialize is executed”

D

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

E

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

F

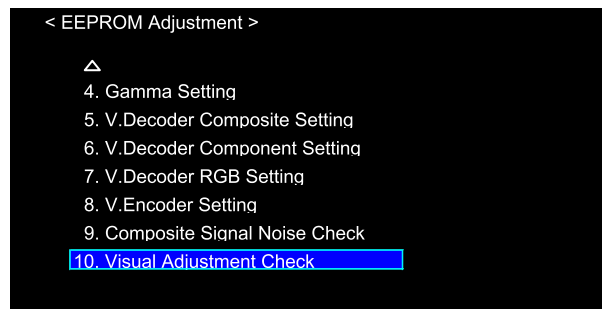
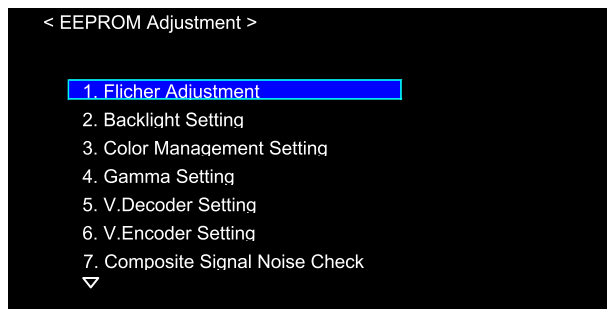
3. EEPROM Adjustment



Method for Mode IN

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

Display specification

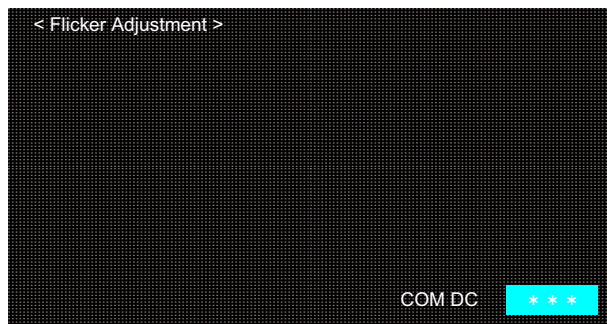
Top menu





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

1. Flicker Adjustment

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



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

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

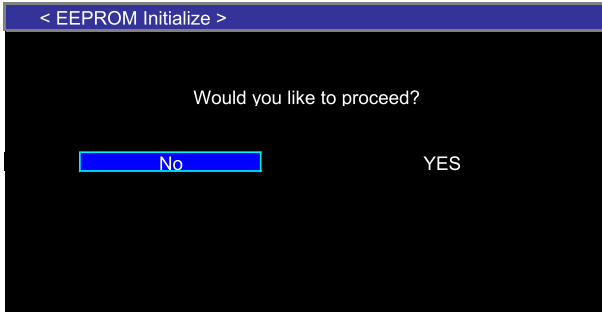
4. EEPROM Initialize



Method for Mode IN

Choose "4. EEPROM Initialize" among the Monitor Test Menu screen.

Display specification

Confirmation screen



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

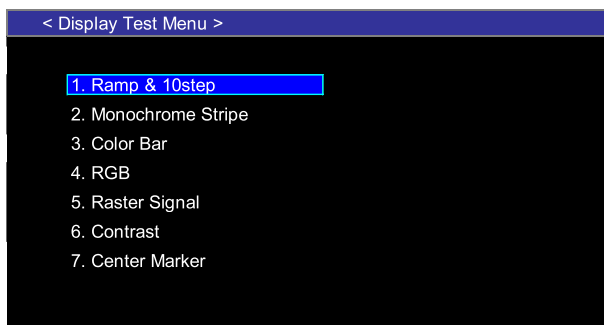
5. Display Test



Method for Mode IN

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

Display specification

Top menu

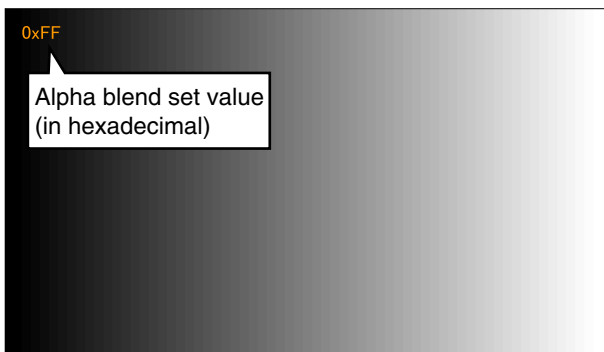






Operational description	Remote controller key
Return to test mode menu	RETURN
Selection cursor up movement	Up 
Selection cursor down movement	Down 
Menu enter	Band

1. Ramp & 10step

Display of step signals and signals for alpha blend check.

Right-white 64step

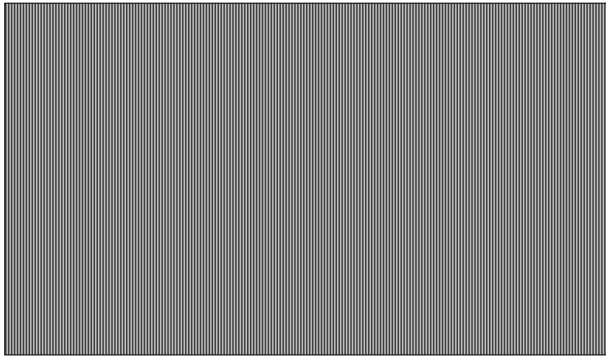


Operational description	Remote controller key
Return to test mode menu	RETURN
Alpha blend Up (+0x10)	Up 
Alpha blend Down (-0x10)	Down 
Alpha blend Up (+0x01)	FF 
Alpha blend Down (-0x01)	REV 
Pattern change	Band

2. Monochrome Stripe

Display of monochrome stripe signals.

Monochrome stripe (Vertical)

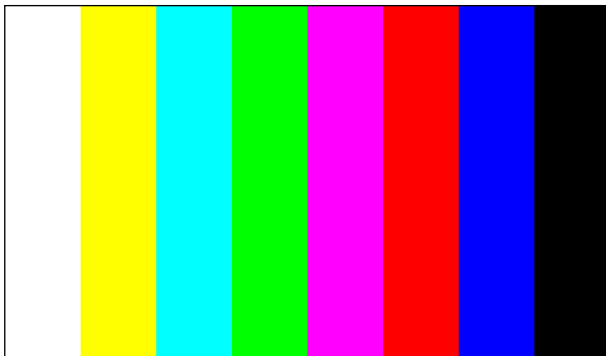


Operational description	Remote controller key
Return to test mode menu	RETURN
Pattern change	Band

3. Color Bar

Display of color bar signals.

Color bar (Vertical)



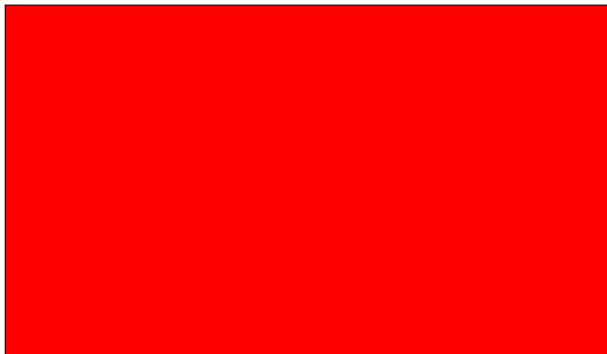
Operational description	Remote controller key
Return to test mode menu	RETURN
Pattern change	Band

4. RGB

RGB is plotted in the following pattern:

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

R: 100%

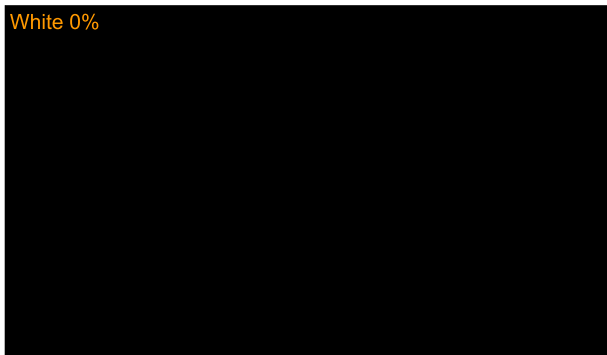


Operational description	Remote controller key
Return to test mode menu	RETURN
Stop / restart of auto display	Band

5. Raster Signal

Display of signals for step confirmation.

White 0%



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

6. Contrast

Display of Black / White signals.

Black

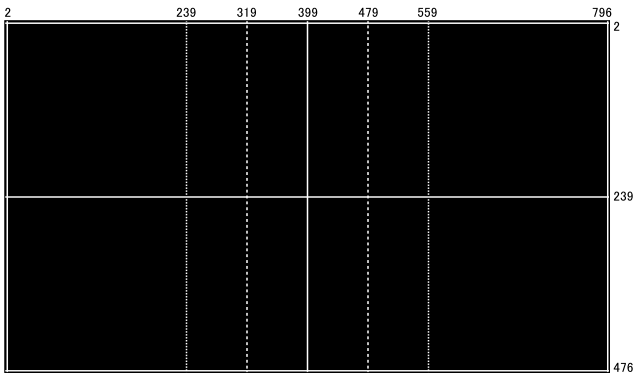


Operational description	Remote controller key
Return to test mode menu	RETURN
Pattern change	Band

7. Center Marker

Display of signal for screen central location setting.

Center marker



Operational description	Remote controller key
Return to test mode menu	RETURN

6. Rear Video Output Test

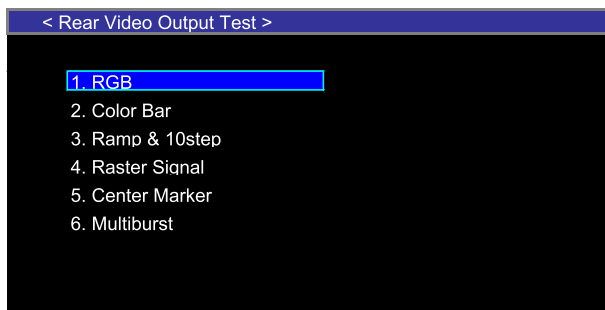
Method for Mode IN



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

Display specification

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

Top menu



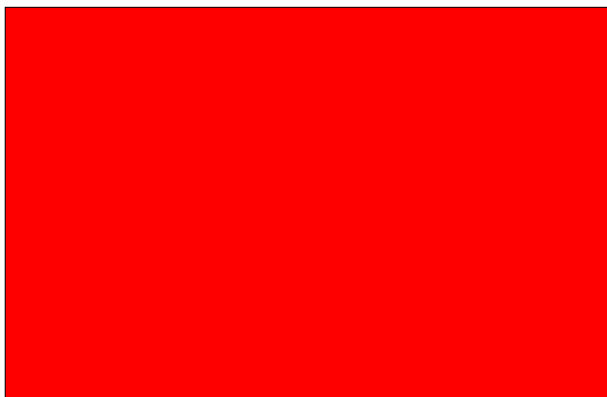
Operational description	Remote controller key
Return to test mode menu	RETURN
Selection cursor up movement	Up 
Selection cursor down movement	Down 
Menu enter	Band

1. RGB

RGB is plotted in the following pattern:

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

R: 100%

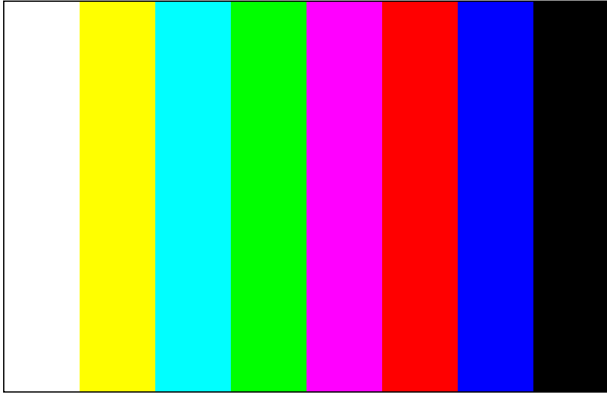


Operational description	Remote controller key
Return to test mode menu	RETURN
Stop / restart of auto display	Band

2. Color bar

Display of color bar signals.

Color bar (Vertical)

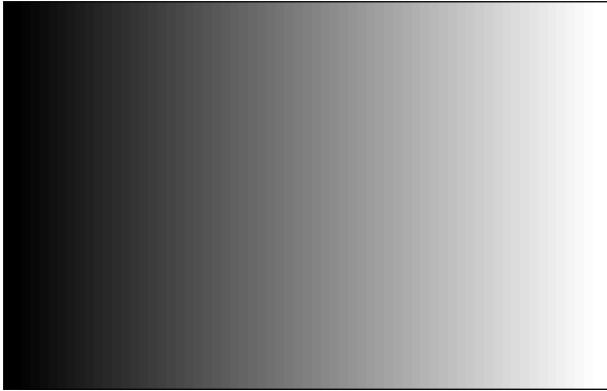






Operational description	Remote controller key
Return to test mode menu	RETURN

3. Ramp & 10step

Display of step signals and signals for alpha blend check.

Right-white 64step

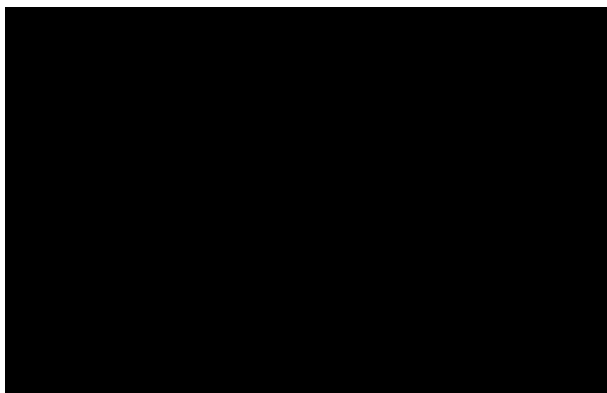


Operational description	Remote controller key
Return to test mode menu	RETURN
Alpha blend Up (+0x10)	Up 
Alpha blend Down (-0x10)	Down 
Alpha blend Up (+0x01)	FF 
Alpha blend Down (-0x01)	REV 
Pattern change	Band

4. Raster Signal

Display of signals for step confirmation.

White 0%

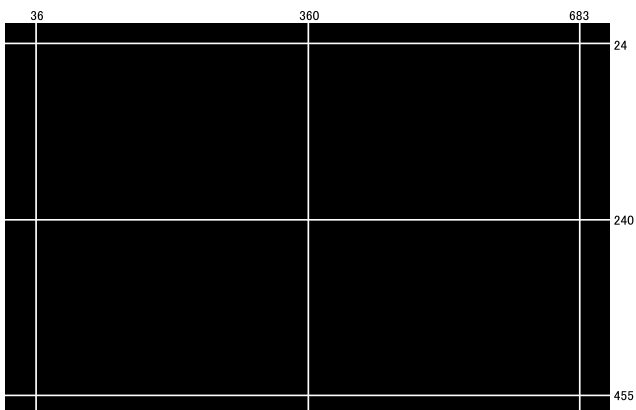


Operational description	Remote controller key
Return to test mode menu	RETURN
Pattern change	Band

5. Center Marker

Display of signal for screen central location setting.

Center marker



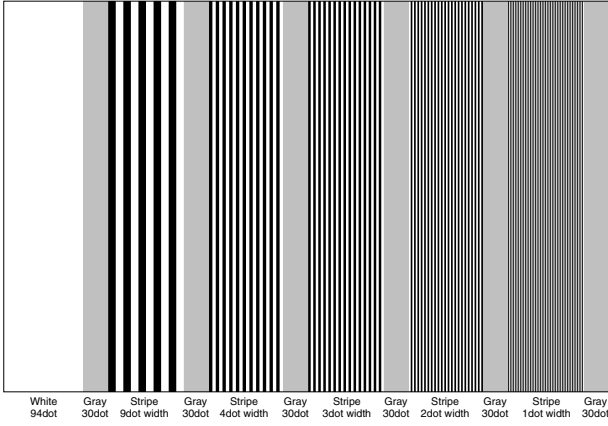
Operational description	Remote controller key
Return to test mode menu	RETURN

6. Multiburst

Display of multiburst signal.

A

Multiburst



B

Operational description	Remote controller key
Return to test mode menu	RETURN

C

D

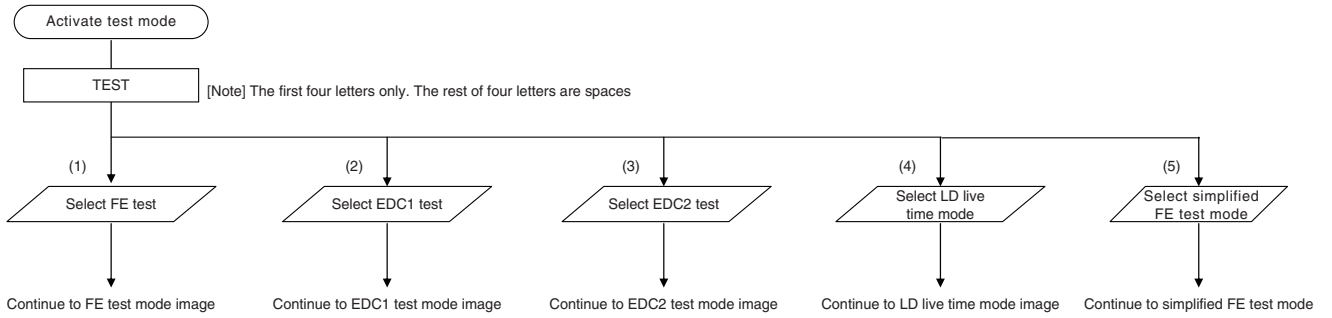
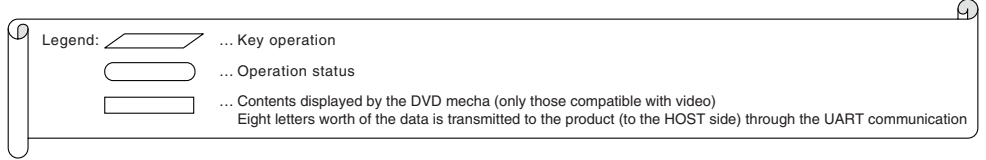
E

F

6.2 DVD TEST MODE

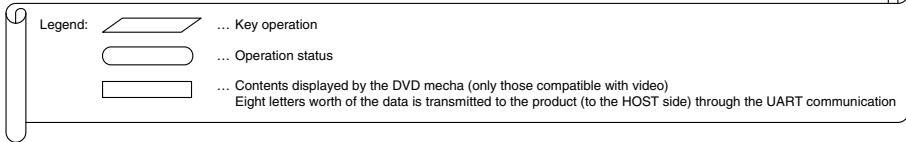
Test mode image

[EJECT] + [DISP] + Reset start
Switch position of the remote control unit.
[AVH mode]
(1)-(8) and EJECT is the key of remote control unit.

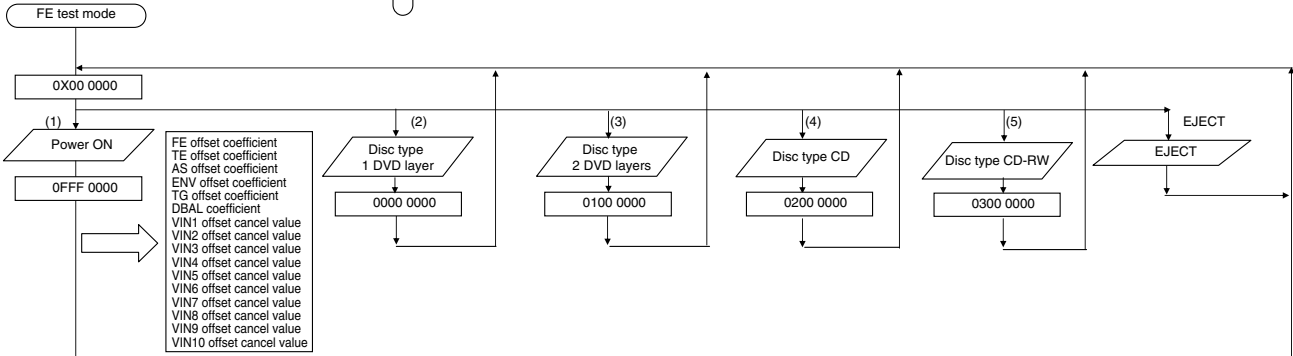


[Note] The DVD mecha needs to be activated in the test mode again to move to another test after selecting each test (FE/EDC1/EDC2).

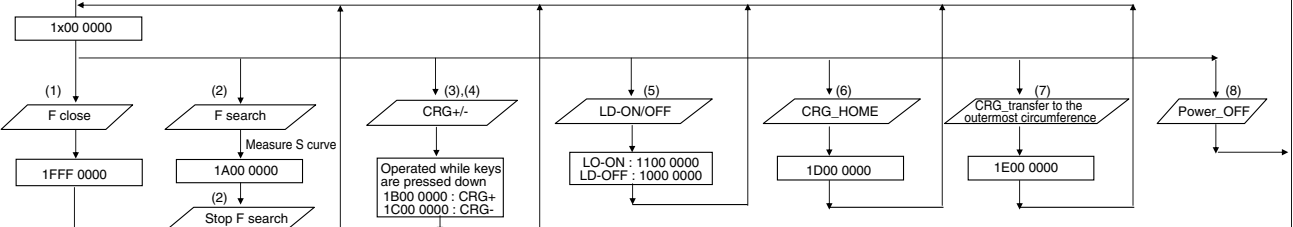
Front-End test mode image



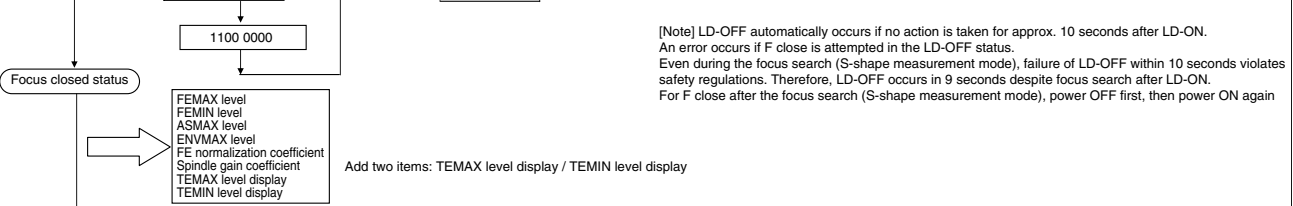
A



B

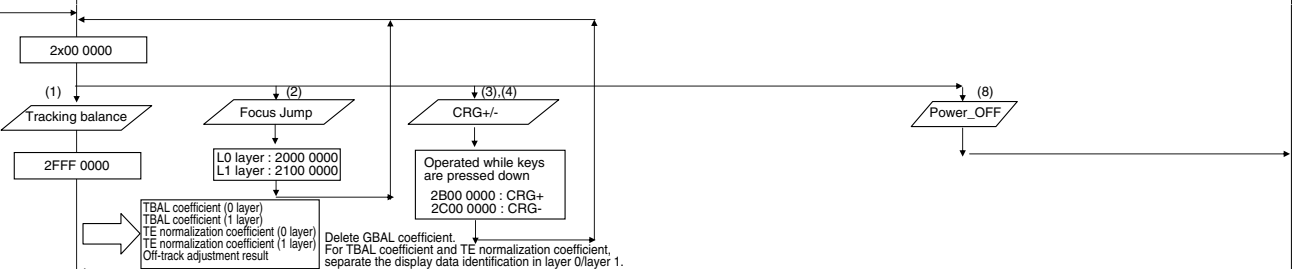


C

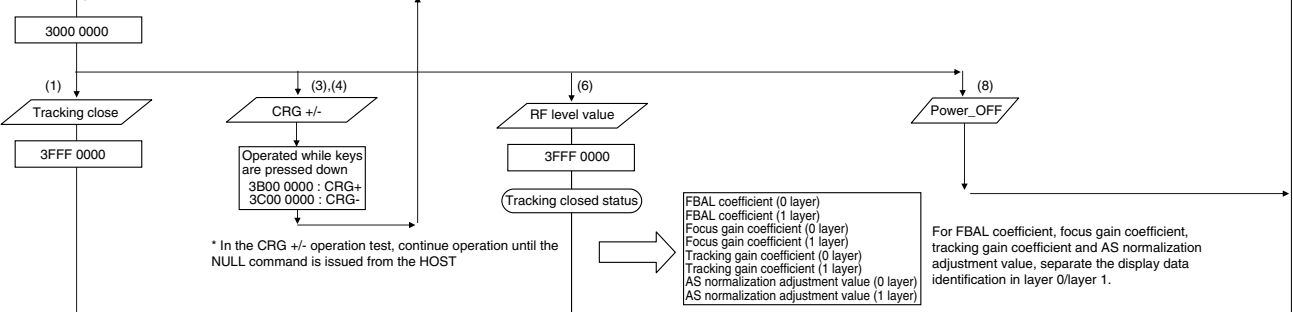


[Note] LD-OFF automatically occurs if no action is taken for approx. 10 seconds after LD-ON.
An error occurs if F close is attempted in the LD-OFF status.
Even during the focus search (S-shape measurement mode), failure of LD-OFF within 10 seconds violates safety regulations. Therefore, LD-OFF occurs in 9 seconds despite focus search after LD-ON.
For F close after the focus search (S-shape measurement mode), power OFF first, then power ON again

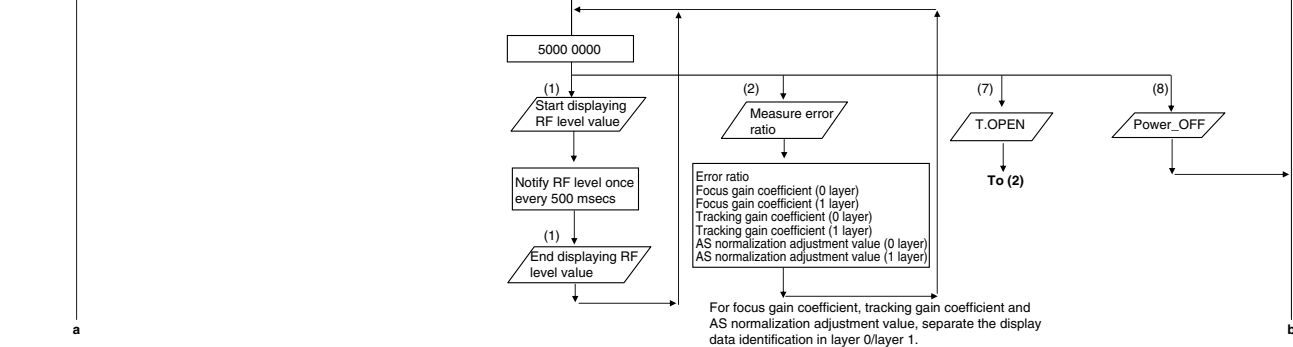
D

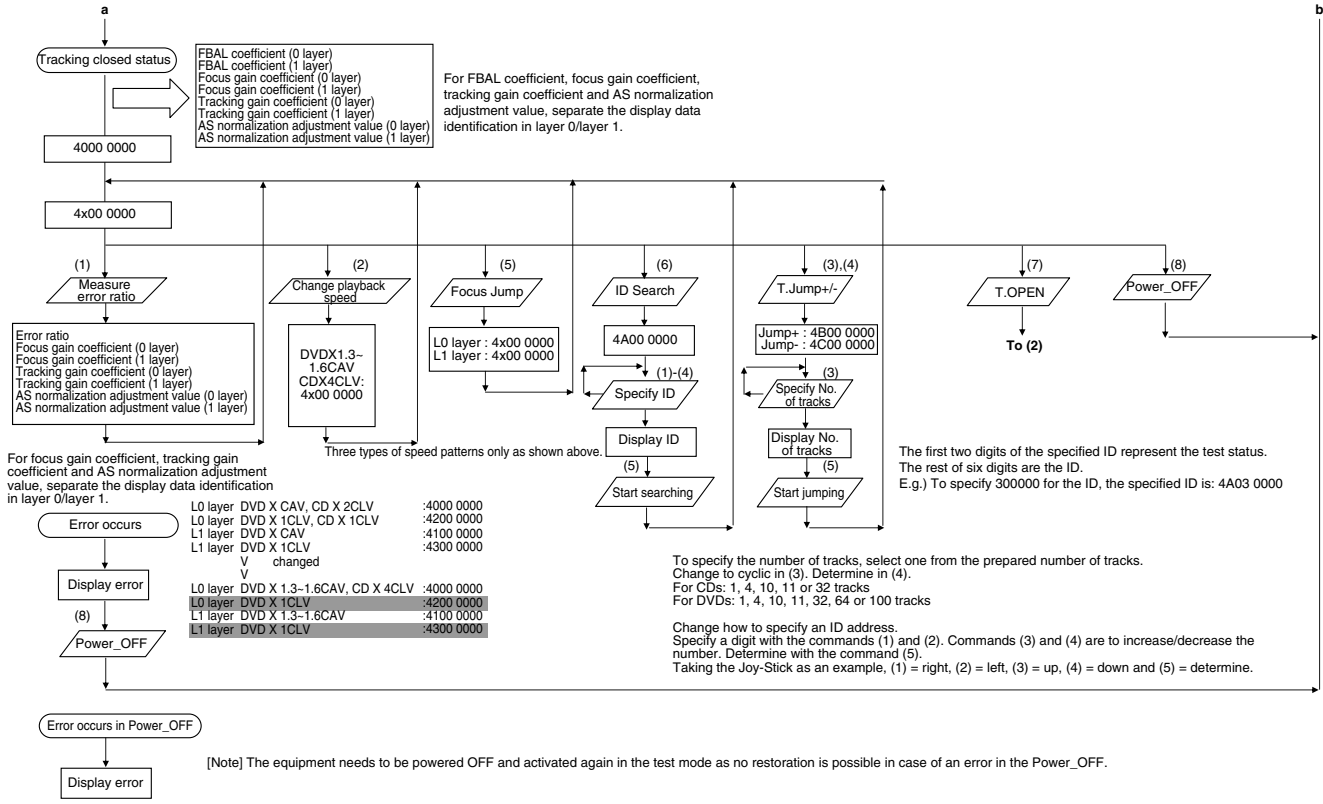


E






F





EDC test mode image

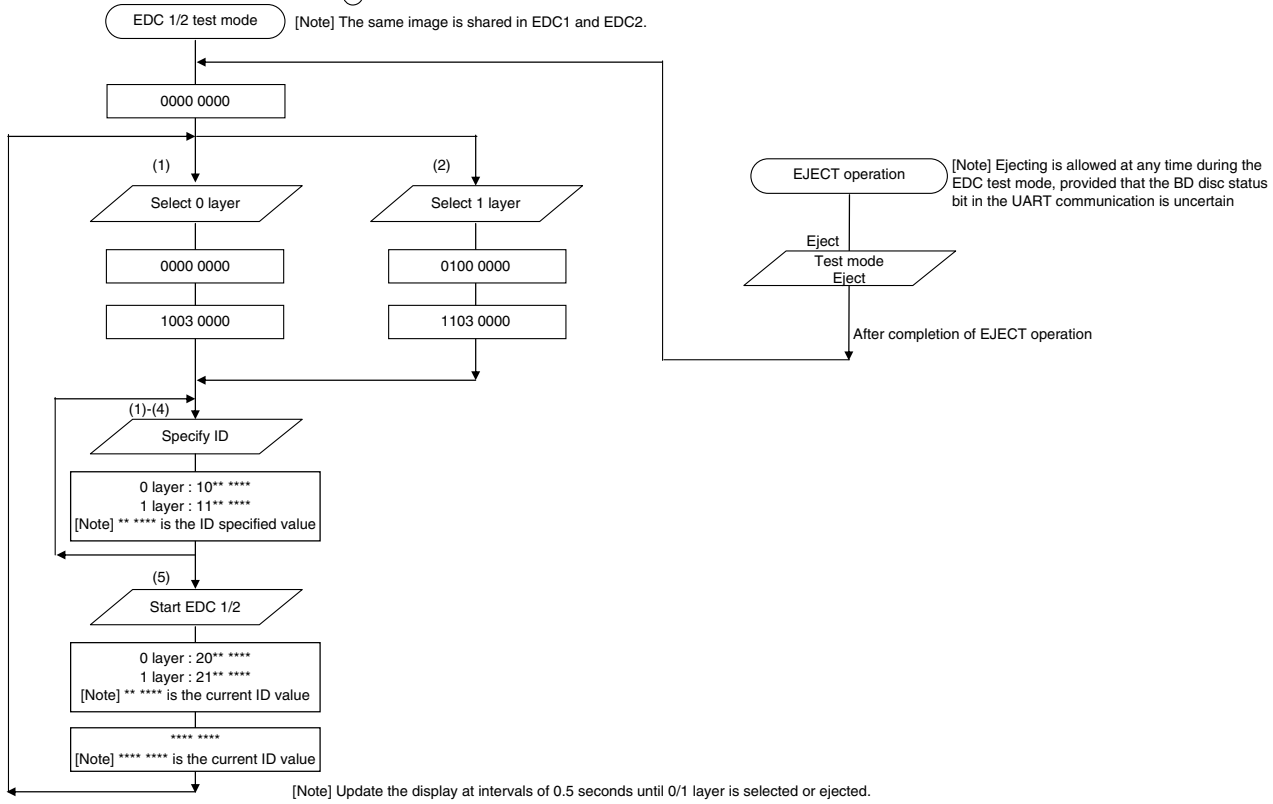
Legend:

-  ... Key operation
-  ... Operation status
-  ... Contents displayed by the DVD mecha (only those compatible with video)
Eight letters worth of the data is transmitted to the product (to the HOST side) through the UART communication

A




B

C



LD live time mode image

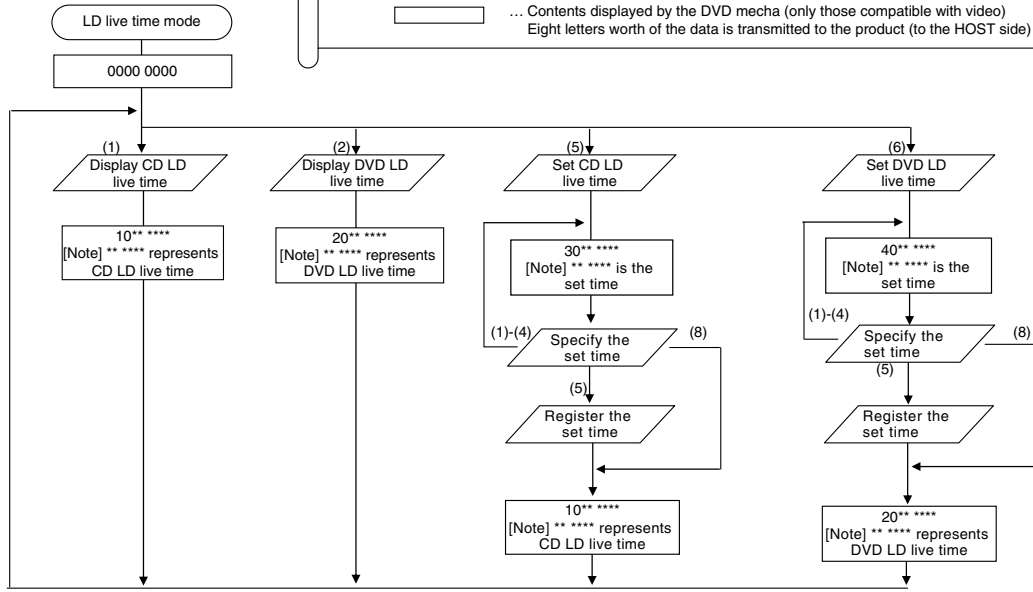
Legend:

-  ... Key operation
-  ... Operation status
-  ... Contents displayed by the DVD mecha (only those compatible with video)
Eight letters worth of the data is transmitted to the product (to the HOST side) through the UART communication

D

E

F



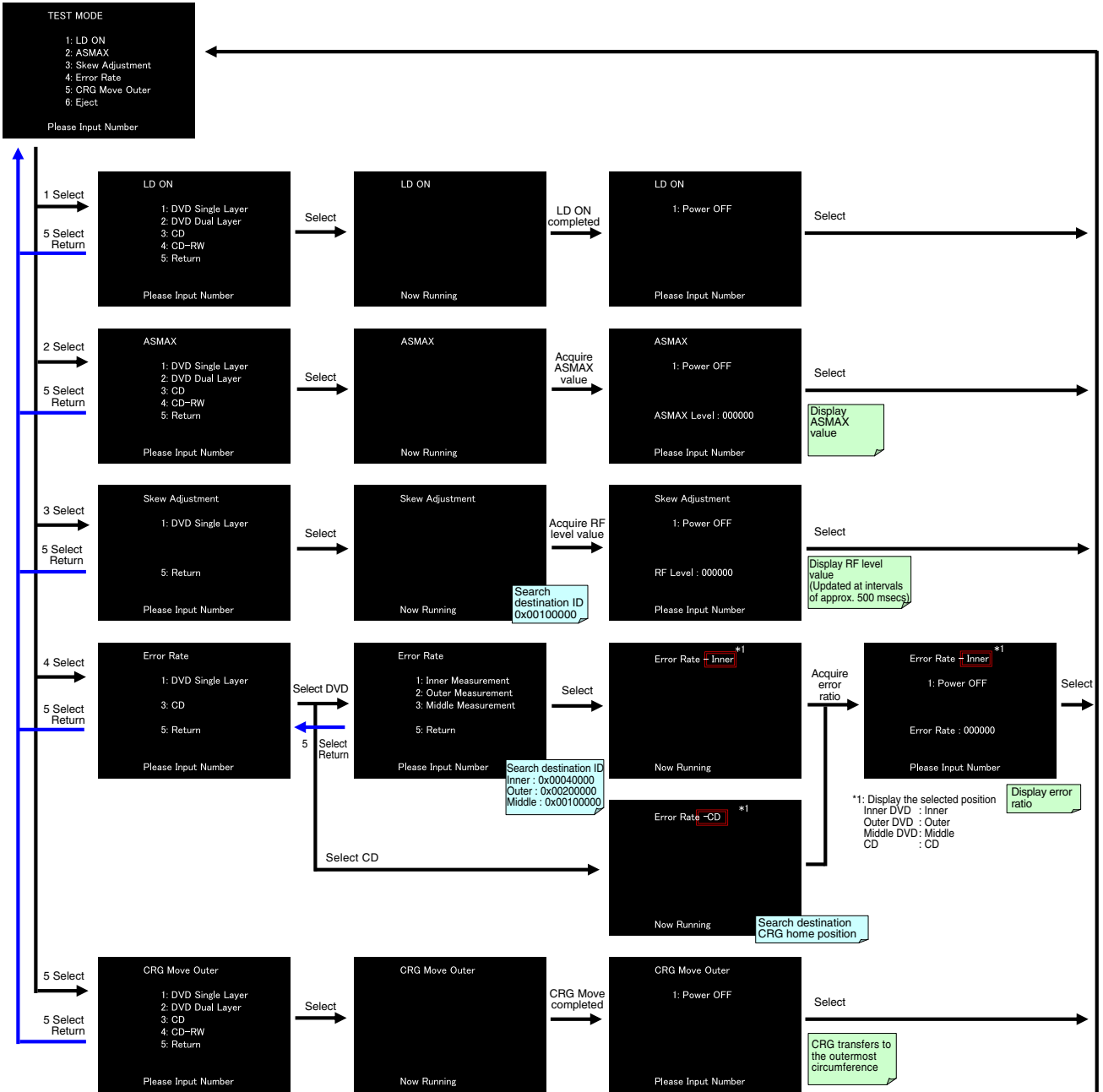
[How to specify a set time]
Specify a digit with the commands (1) and (2). Commands (3) and (4) are to increase/decrease the number.
Determine with the command (5). Cancel with the command (8).

[Note] All live times exceeding 999999 hours are notified as 999999 hours.
[Note] The live time represented in "E** *****" may not be an accurate value as it represents the end of the life of the FLASH memory.

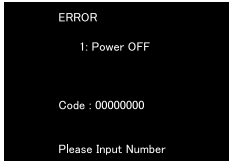
Simplified FE test mode

Numbers on each screen can be selected with the "test key commands".
No display data for the test mode is notified in the simplified FE test mode.

<Screen transition>



<In case of an error>



<In case of an error in Power_OFF>



Service Test Mode

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

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

1. Outline

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

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

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

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

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

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

2. Operation flow

Specification for the UART (HOST) communication

1) Key commands for the test mode

STATUS = 00h, TP = 11h, D0 = EEh, (Key commands for the test mode)

D1: Types of key commands exclusive for the test mode

Value of D1	Purpose
01h	Test mode command (1)
02h	Test mode command (2)
03h	Test mode command (3)
04h	Test mode command (4)
05h	Test mode command (5)
06h	Test mode command (6)
07h	Test mode command (7)
08h	Test mode command (8)
D0h	Test mode command EJECT
F0h	Test mode command NULL

* In CRG+/-, operation stops when the key is released. At that time, the DVD mecha should make the key command request (TP = B1h) on a regular basis to prevent any omission of key release.

2) Display data for the test mode

STATUS = 00h, TP = B5h, D0 = 02h, (Display data for the test mode)

D1: Display data identifier exclusive for the test mode

[The values of D1 are as shown in the table below]

D2 – 9: Eight letters worth of display data in ASCII. (Status or results are displayed)

Value of D1	Purpose	Continuous display specification			
01h	Status display				
02h	FE offset coefficient	1-1			
03h	TE offset coefficient	1-2			
04h	AS offset coefficient	1-3			
05h	ENV offset coefficient	1-4			
06h	TG offset coefficient	1-5			
07h	DBAL coefficient	1-6			
30h	VIN1 offset cancel value	1-7			
31h	VIN2 offset cancel value	1-8			
32h	VIN3 offset cancel value	1-9			
33h	VIN4 offset cancel value	1-10			
34h	VIN5 offset cancel value	1-11			
35h	VIN6 offset cancel value	1-12			
36h	VIN7 offset cancel value	1-13			
37h	VIN8 offset cancel value	1-14			
38h	VIN9 offset cancel value	1-15			
39h	VIN10 offset cancel value	1-16			
08h	FEMAX level		2-1		
09h	FEMIN level		2-2		
0Ah	ASMAX level		2-3		
0Bh	ENVMAX level		2-4		
0Ch	FE normalization coefficient		2-5		
0Dh	Spindle gain coefficient		2-6		
0Eh	TBAL coefficient (0 layer)			3-1	
1Eh	TBAL coefficient (1 layer)			3-2	
10h	TE normalization coefficient (0 layer)			3-3	
20h	TE normalization coefficient (1 layer)			3-4	
40h	Off-track adjustment result			3-5	
11h	FBAL coefficient (0 layer)				4-1
21h	FBAL coefficient (1 layer)				4-2
12h	Focus gain coefficient (0 layer)				4-3 5-2
22h	Focus gain coefficient (1 layer)				4-4 5-3
13h	Tracking gain coefficient (0 layer)				4-5 5-4
23h	Tracking gain coefficient (1 layer)				4-6 5-5
14h	AS normalization adjustment value (0 layer)				4-7 5-6
24h	AS normalization adjustment value (1 layer)				4-8 5-7
15h	Error ratio				5-1
16h	TEMAX level		2-7		
17h	TEMIN level		2-8		
50h	RF level				

* Each coefficient (excluding the status display) outputs data at intervals of every second.

E.g.) Power-on (examples of "1-" in the continuous display specifications above)

D1 = 01h, set the status display data to D2 – D9 and transmit

[1 second later]

D1 = 02h, set the FE offset coefficient to D2 – D9 and transmit

[1 second later]

D1 = 03h, set the TE offset coefficient to D2 – D9 and transmit

⋮

⋮

[1 second later]

D1 = 07h, set the DBAL coefficient to D2 – D9 and transmit

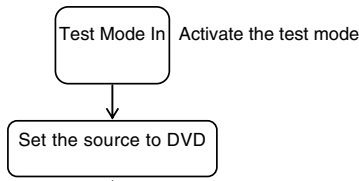
[1 second later]

D1 = 01h, after setting the status display data to D2 – D9 and transmitting, wait for keys

Note 1 A media type is specified here. Settings should be implemented according to this specification.
 Note 2 Switching gains should be: normal gain -> OEIC =H -> OEIC =H and FEPx4 amps ON
 Note 3 Any other operation is prohibited during measurement
 Note 4 Playback speed should be: 1.3 – 1.6CAV for DVDs and x4CLV fixed for CDs

A

Number of keys required for the product: nine ((1) – (8) plus EJECT)
 The test mode commands 1 to 8 + EJECT as well as the NULL command should be used for the HOST communication.

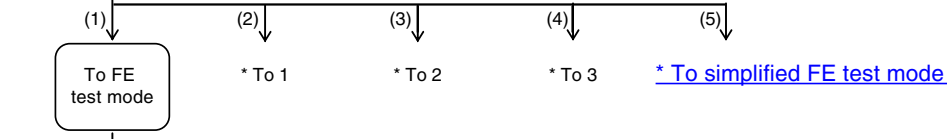


To specify the number of tracks, select one from the prepared numbers of tracks.
 Change to cyclic in (3). Determine in (4).
 For CDs: 1, 4, 10, 11 or 32 tracks
 For DVDs: 1, 4, 10, 11, 32, 64 or 100 tracks

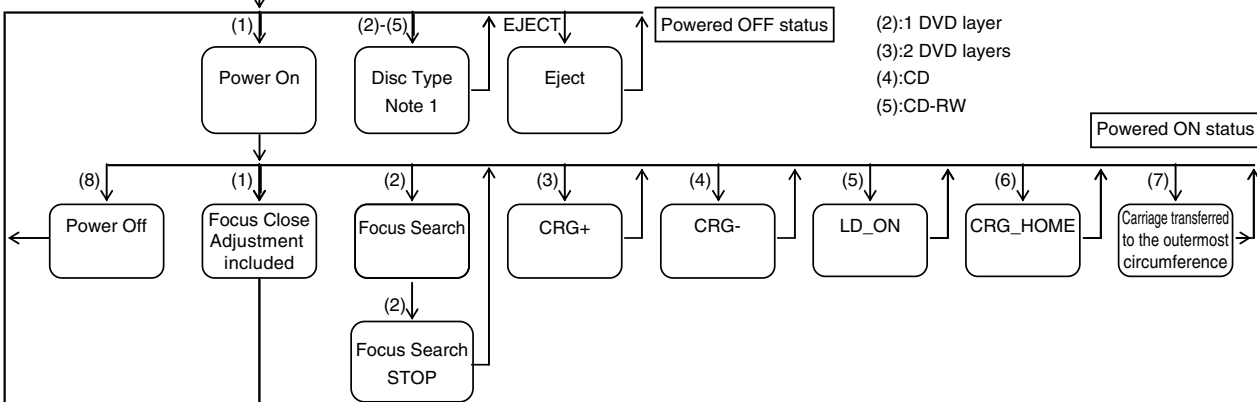
Change how to specify an ID address
 Specify a digit with the commands (1) and (2). Commands (3) and (4) are to increase/decrease the number. Determine with the command (5).
 Taking the Joy-Stick as an example, (1) = right, (2) = left, (3) = up, (4) = down and (5) = determine.

*F close and F search will not be executed unless LD is ON.

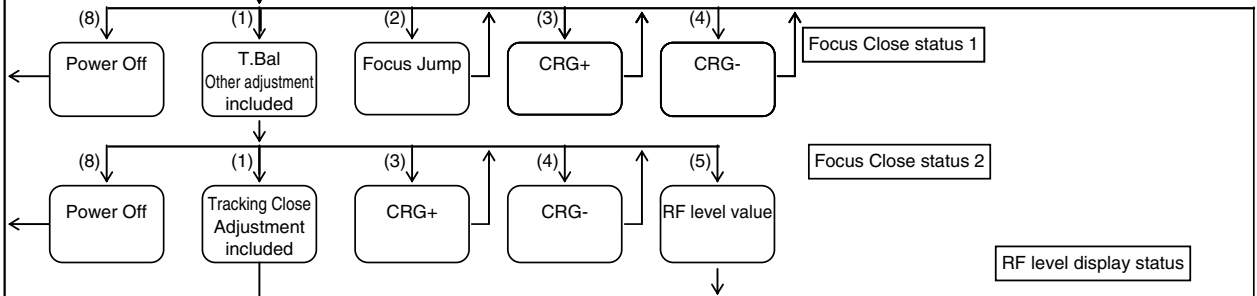
B



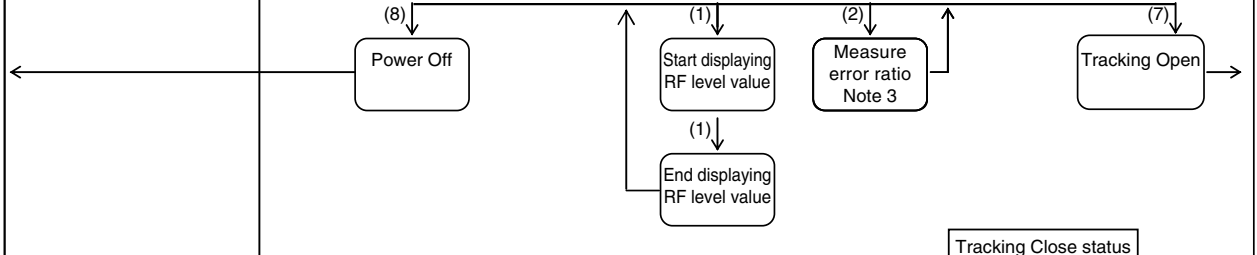
C



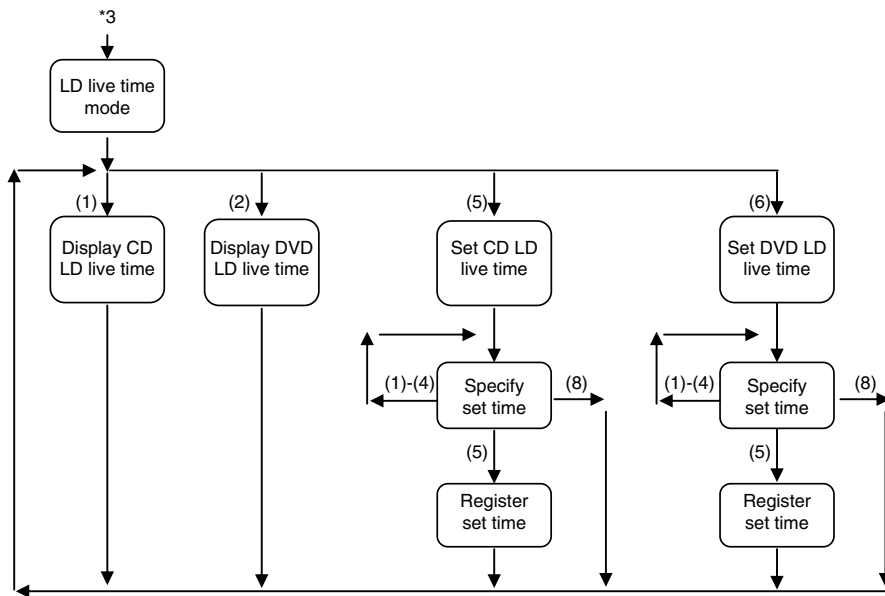
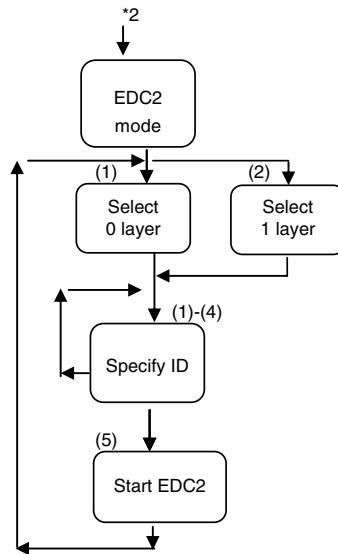
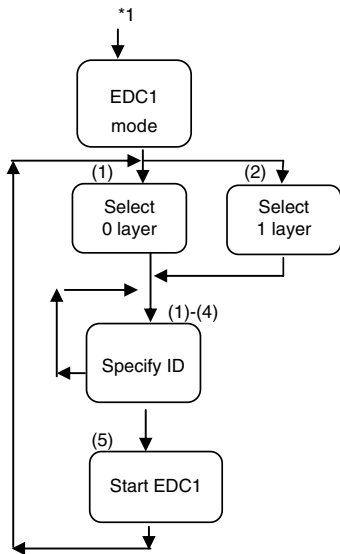
D



E



F



[How to specify a set time]
 Specify a digit with the commands (1) and (2). Commands (3) and (4) are to increase/decrease the number. Determine with the command (5).
 Cancel with the command (8).

6.3 DVD MECHANISM TOUCH PANEL TEST MODE

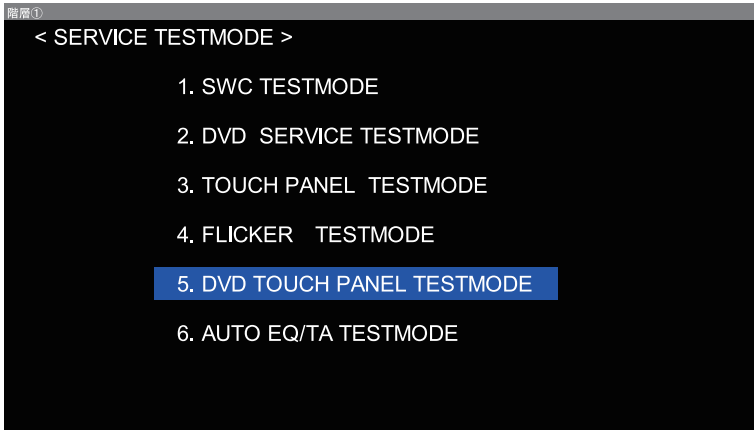
For temporary analysis for service
(for temporary analysis of user complaint for touch direct of DVD)

How to enter the system

Hold **FORWARD** key and **VOL+** key, press reset.

Select DVD TOUCH PANEL TESTMODE.

Specifications of display



[Content]

1. A white rectangle frame is displayed in menu.



2. If you touch the screen, a white cross image [+] is displayed to indicate that it is a pressed coordinate.

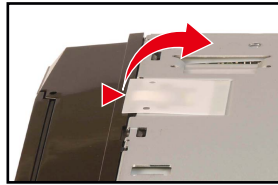


7. DISASSEMBLY

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

● Removing the Grille Assy (Fig.1)

- 1** Disconnect the connector.



Note:
Lift and remove the tip of sheet in the direction indicated by an arrow using the tweezers etc. and then disconnect the connector.

- 2** Remove the two screws.

- 3** Release the three latches and then remove the Grille Assy.

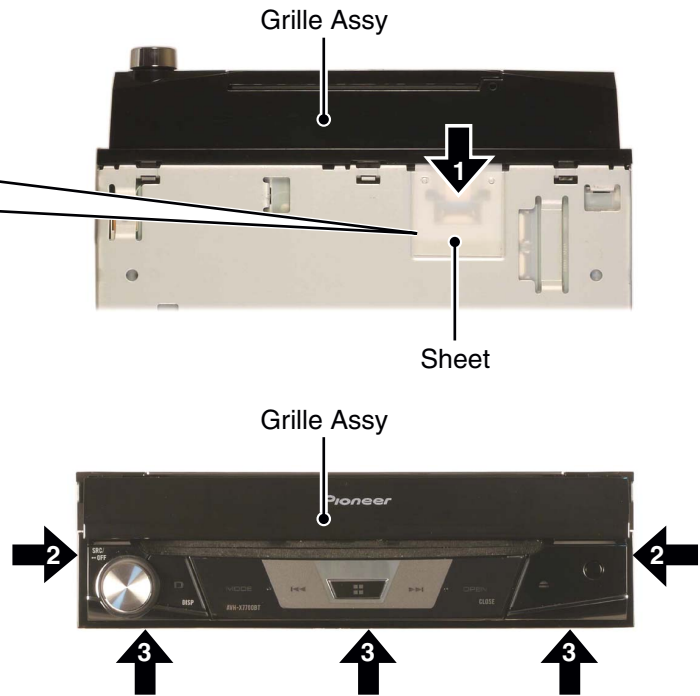


Fig.1

● Removing the Display Module Unit (1/2) (Fig.2)

- 1** Remove the five screws and then remove the Display Module Unit.

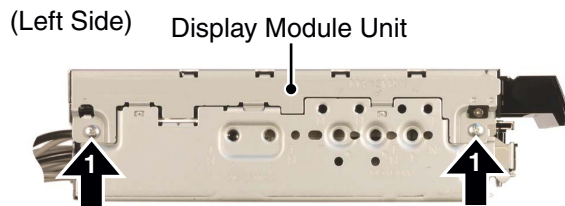
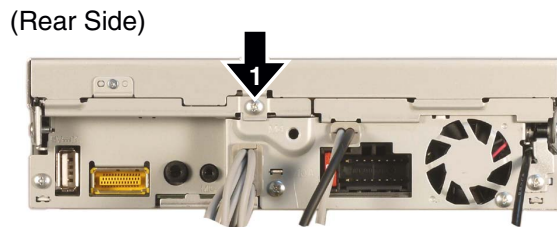
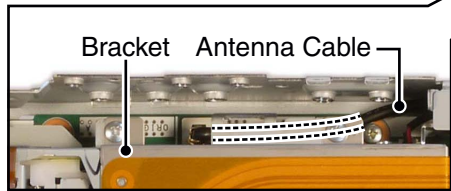


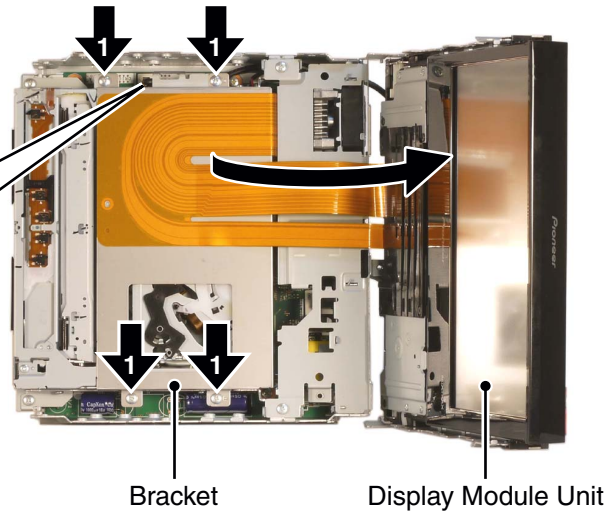
Fig.2

● Removing the DVD Mechanism Module and the Display Module Unit (2/2) (Fig.3)

1 Remove the four screws and then lift the Bracket toward the Display Module Unit.

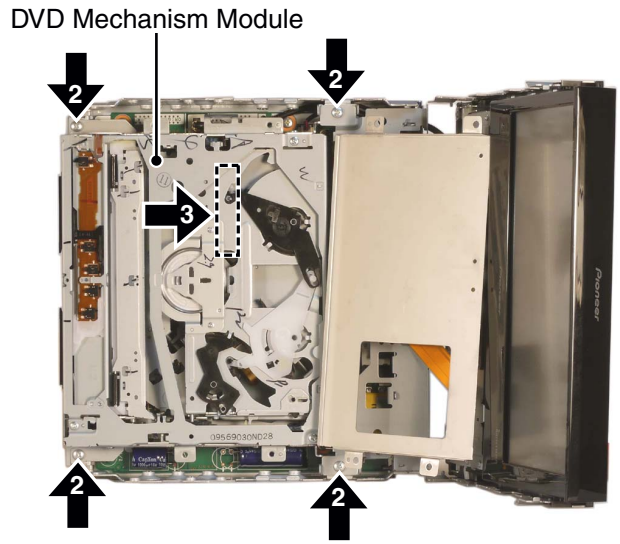


Attention at assembly:
Though the Antenna Cable under the Bracket of DVD Mechanism Module as shown in the photo.



2 Remove the four screws.

3 Disconnect the connector and then remove the DVD Mechanism Module.



4 Disconnect the connector and then remove the Display Module Unit.

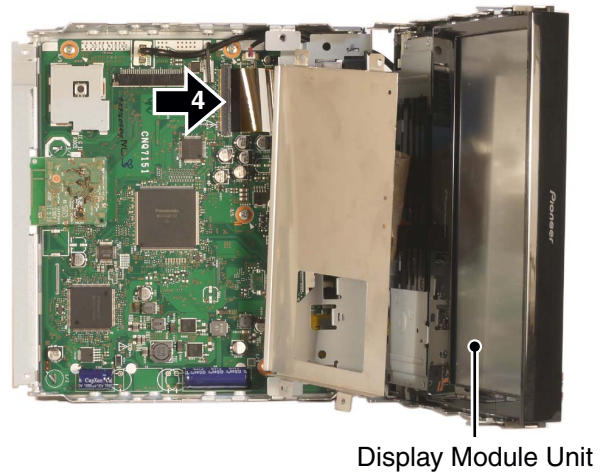


Fig.3

● Removing the Holder (Fig.4)

- 1** Straighten the tab at two locations indicated and then remove the Holder (1).
- 2** Remove the screw.
- 3** Remove the three screws and then remove the Holder (2).

Attention at assembly:
Lay the Antenna Cable and Fan Cable by pushing the root of Cable as shown in the photo.

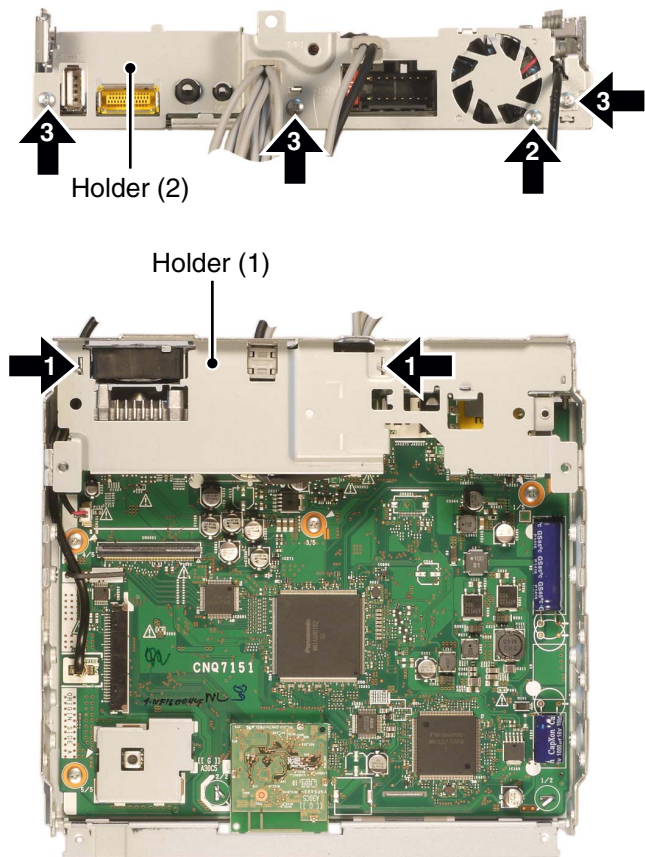
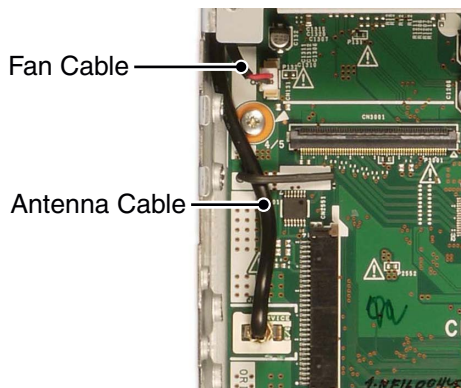


Fig.4

● Removing the Mother Unit (Fig.5)

- 1** Remove the five screws.
- 2** Straighten the tabs at two locations indicated and then remove the Mother Unit.

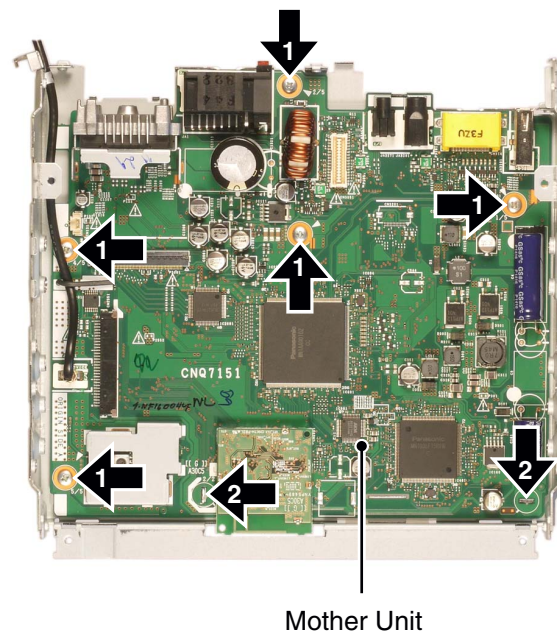
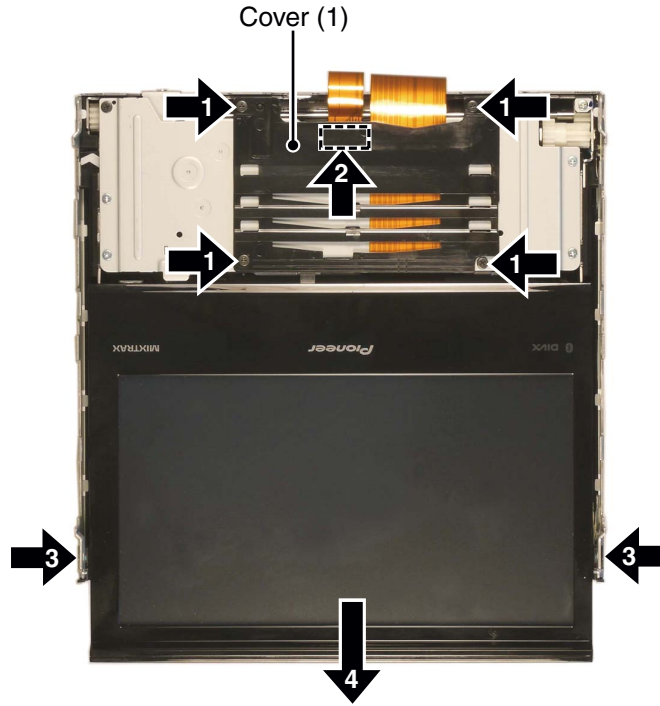


Fig.5

● Removing the Monitor Assy (Fig.6)

A

- 1** Remove the four screws and then remove the Cover (1).
- 2** Disconnect the connector.
- 3** Remove the two screws and then remove the two Guides(Right side, Left side).
- 4** Pull out the Monitor Assy in the direction indicated by an arrow.

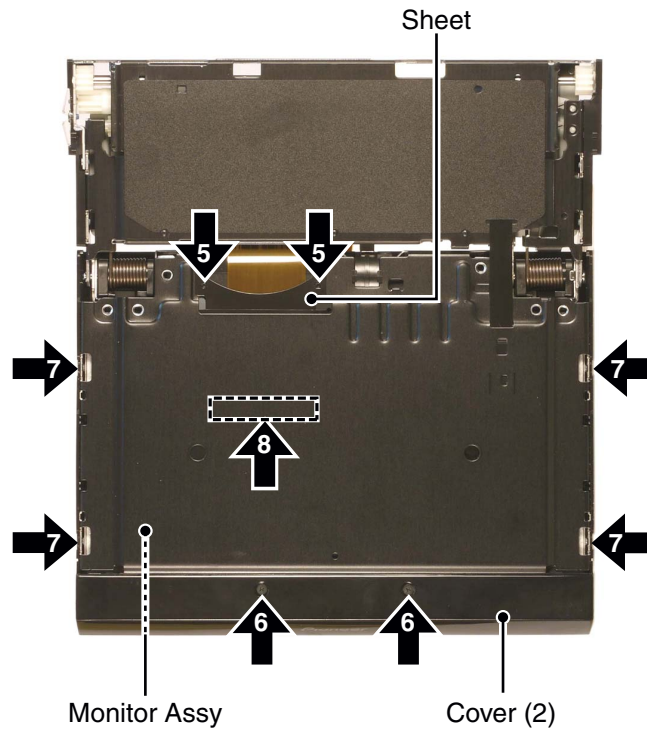


B

C

D

- 5** Release the two latches and then remove the Sheet.
- 6** Remove the two screws and then remove the Cover (2).
- 7** Remove the four screws.
- 8** Disconnect the connector and then remove the Monitor Assy.



E

F

Fig.6

● Removing the Monitor Unit (Fig.7)

- 1** Disconnect the three connectors.
 - 2** Remove the two Gaskets.
- Attention at assembly:
Attach the Gaskets as shown in the photo when mounting the Monitor Unit.
- 3** Release the two latches and then remove the Monitor Unit.

Attention at assembly:
Styling cable as like photo.

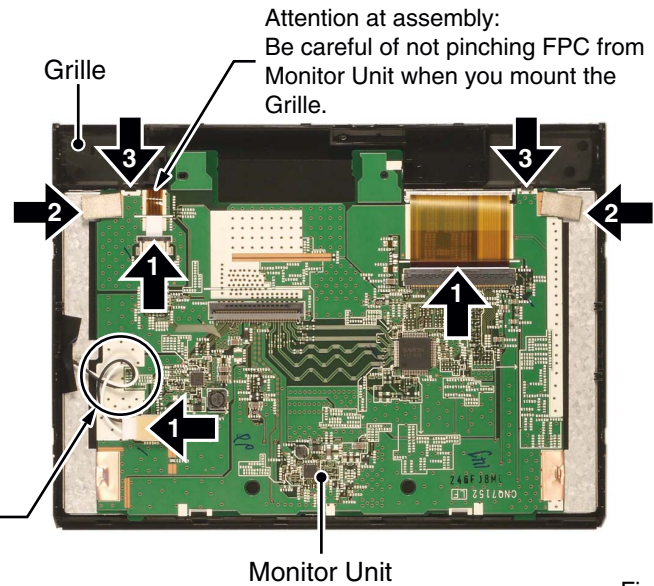


Fig.7

● Removing the Main PCB Unit and the SW PCB Unit (Fig.8)

- 1** Remove the two screws.
- 2** Remove the six screws and then remove the Cover.
- 3** Remove the five Gears.
(When installing the Gears, please use caution not to mistake the installation position)
- 4** Remove the five solders.
- 5** Remove the screw and then remove the Main PCB Unit.
- 6** Remove the Washer, Arm(1) and the Torsion Spring.
- 7** Remove the Washer, Arm(2) and the Torsion Spring.
- 8** Remove the screw and then remove the SW PCB Unit.

Note:
As Main PCB Unit and SW PCB Unit are connected with FFC, Main PCB Unit and SW PCB Unit are removed at the same time.

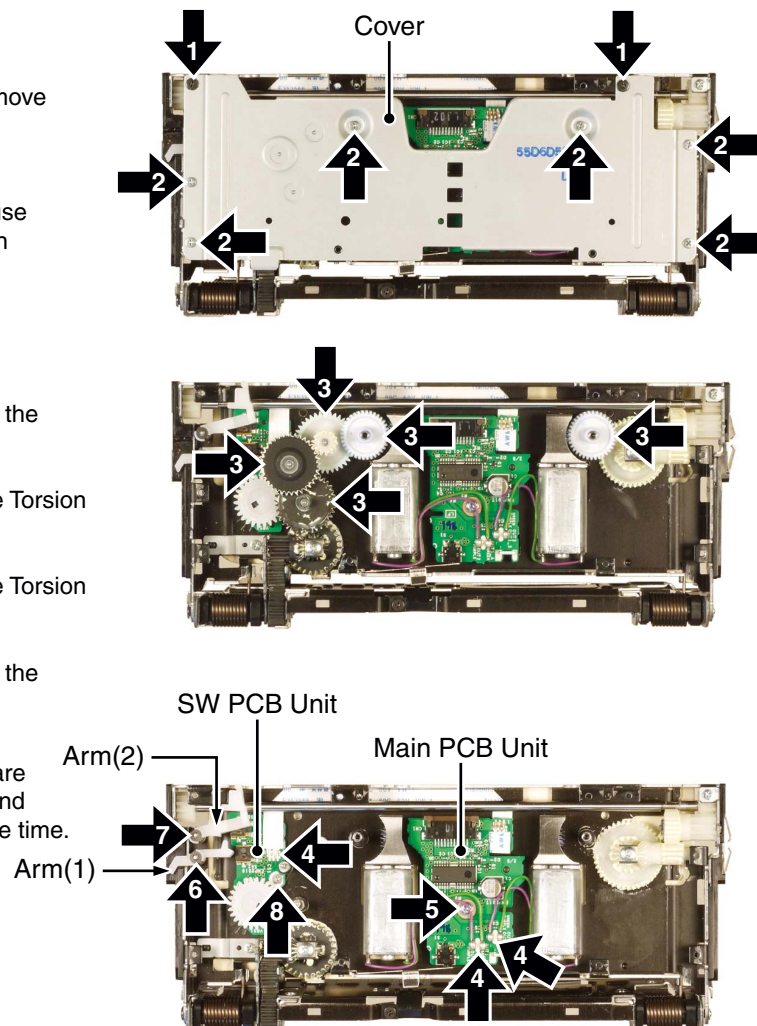
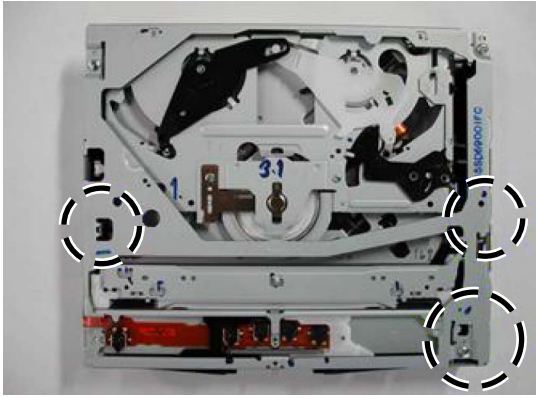


Fig.8

A ● How to Hold the Mechanism

1. Hold the specified parts (indicated by broken lines) of upper and lower frames.
2. Hold the main frame and the upper frame.
3. Do not hold the front part of the upper frame because the intensity is low.
4. Do not touch the switch on the ceiling surface of the mechanism. (Fig. 1)
5. Take care not to catch the flexible part on the side face.
6. Take note that a deformation may be generated if you hold the front part of the upper frame or CRG mechanism part or a foreign object is inserted.

Handling OK



B

C

D

E

F

Handling NG

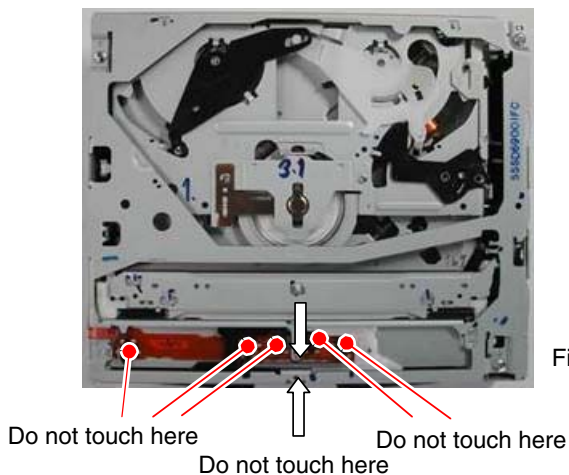
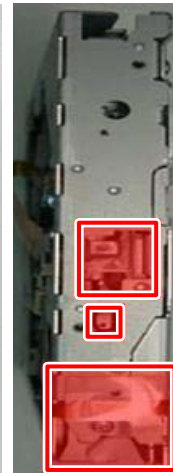
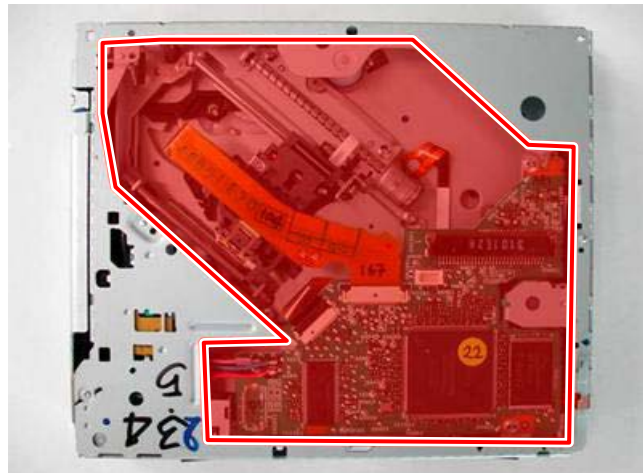
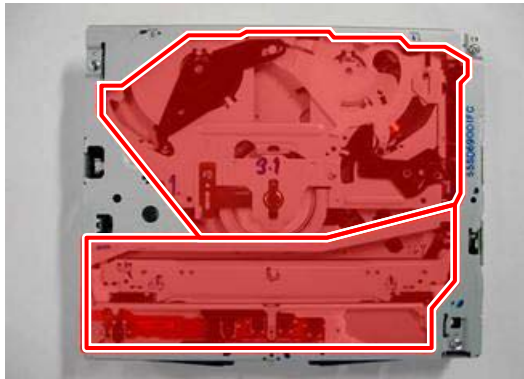
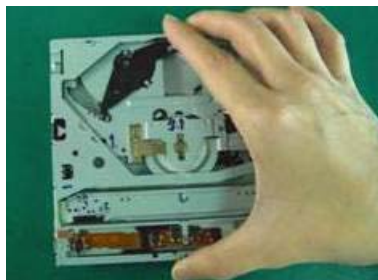



Fig. 1



 : Do not touch here

A

B

C

D

E

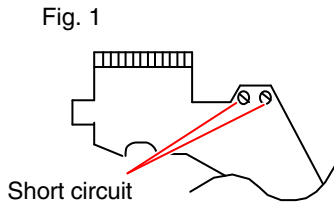
F

● Removing the PU unit

A

1. Set the mechanism to the locking position (disc load standby position).
2. Set the ceiling surface of the mechanism module downward.
3. Short-circuit two parts of lands of the pickup flexible part. (Fig. 1)
4. Remove the connector of the pickup flexible part. (Fig. 2)
(The flexible part is damaged if the board is removed without removing the flexible part, so be sure to remove it.)

B



C

Connector
(pickup flexible part)



Fig. 2

D

1. Unscrew two screws and remove the CRG motor ASS'Y.

E

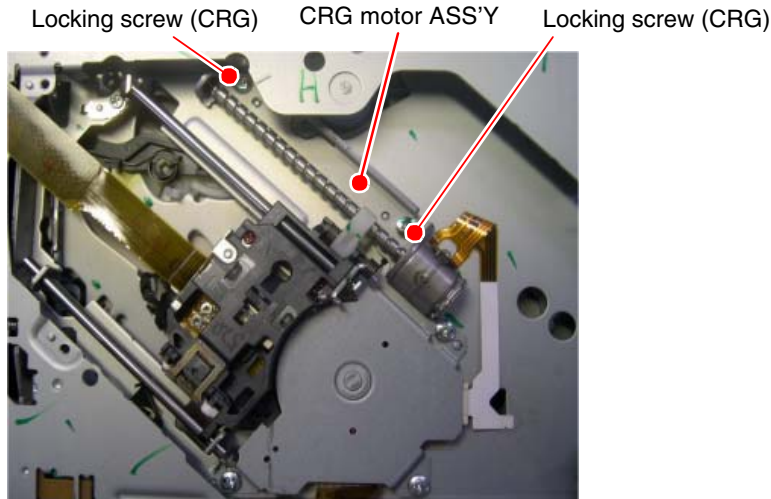


Fig. 3

F

1. Apply the main shaft holddown spring to the temporary applying part of CRG chassis.
2. Remove the CRG motor ASS'Y following "How to remove the CRG motor ASS'Y".
3. Remove the retainer plate spring of the main shaft.
4. While holding up the tip of the pickup rack, slide the main shaft and remove the PU unit.

(Caution) When you attach the PU again, carry out the adjustment surely following the description in the service manual of the mounted product.
Be sure to carry out the actual applying of main shaft holddown spring.

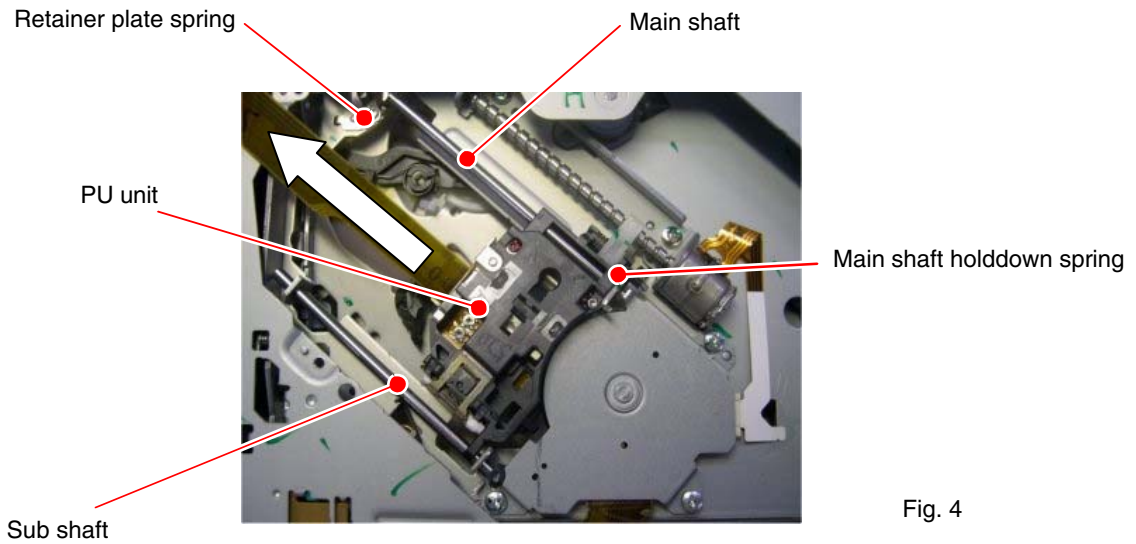
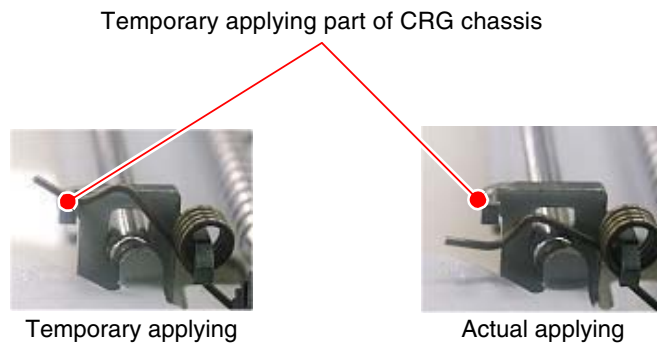


Fig. 4



● How to Hold PU (Fig. 5)

1. When you hold PU, hold "Handling OK" part shown in the figure and do not hold "Handling NG" part.

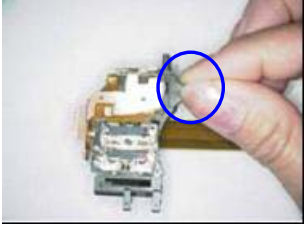
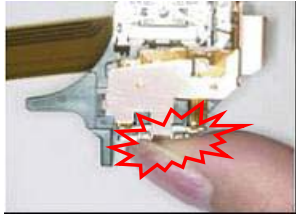
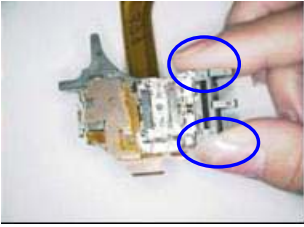
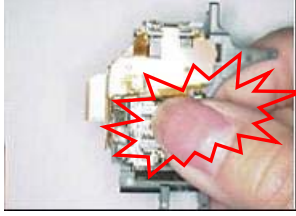
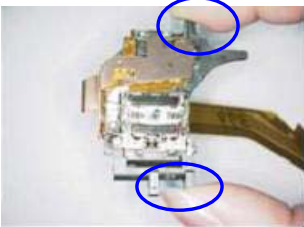
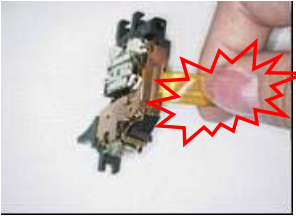
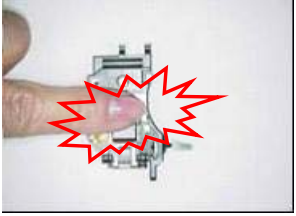
Handling OK	Handling NG	
		<p>Do not touch the radiator.</p>
		<p>Do not touch the ACT(object lens).</p>
		<p>Do not pull the FPC.</p>
		<p>Do not touch the Miller or Collimator lens.</p>

Fig. 5

8. EACH SETTING AND ADJUSTMENT

8.1 DVD ADJUSTMENT



1) Precautions in adjustment

Employing the single voltages including 5 V and 3.3 V as the power supply, the machine has the reference potential for signals being not the GND but VREF (approx. 2.2 V) and VHALF (approx. 1.65 V).

Confusion between the reference voltage and the GND for connection at the time of adjusting the product not only prevents the proper measurement of potentials but results in the erroneous operation of the servo, giving a high impact on the pickup. Therefore, be careful of the following:

Do not confuse the reference voltage and the GND at the negative side of the instrument probe. Particularly, do not connect the negative side of ch1 of the oscilloscope to the reference voltage, or the negative side of the probe of ch2 to the GND. Also, set the instrument to the floating status as the instrument often has the same potential as the negative side of the probe.

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

- Make sure to remove various filters and wire rods necessary for measurement while the regulator is OFF.
- Before adjustment and measurement after turning ON the regulator, run the instrument for around a minute until the circuit is stabilized.
- In the test mode, do not apply any mechanical or electric shock during adjustment as protections through software do not operate in this mode.
- Once the EJECT key is pressed, do not press any other key until the disc is completely ejected.
- Power OFF immediately in case of run a way.
- Turning the volume for adjusting the laser power of the pickup unit may result in the breakage of the laser diode.

●SKEW adjustment

The skew adjustment for the pickup is required when the following replacement is performed:

A

- (1) Replacement of the pickup unit
- (2) Replacement of the spindle motor
- (3) Replacement of the carriage chassis
- (4) Replacement of the main shaft of the pickup unit
- (5) Replacement of the sub-shaft of the pickup unit

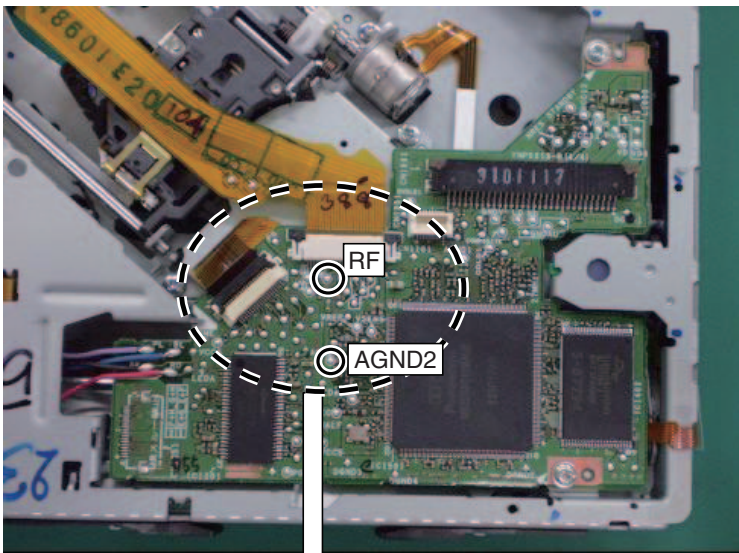
- Measuring instrument, jigs and tools: Oscilloscope
Driver for adjusting SKEW => torques (T2) driver
Bond for fixing SKEW (GEM1033)
Bond for screw lock (GEM1068)

• Disc used: GGV1025

B

- Measurement criterion: AGND2
- Measurement point: RF

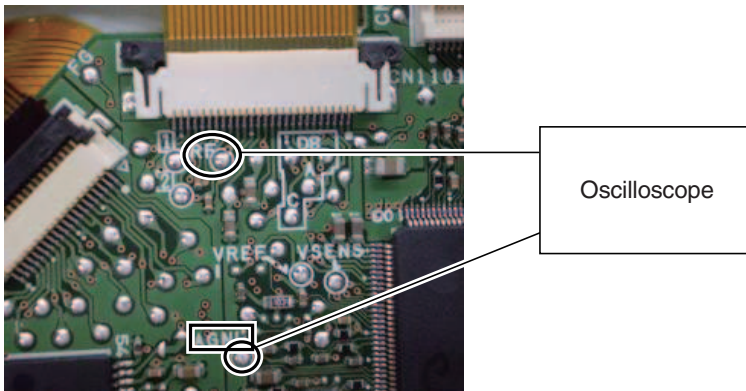
• Connection diagram
DVD core unit



C

D

Enlarged



E

Symptoms seen in case of inadequate adjustment: Worsened error ratio 10⁻³ (normally 10⁻⁴ or less)
 Large RF jitter
 RF waveform is distorted
 Tracking leading-in/servo is unstable

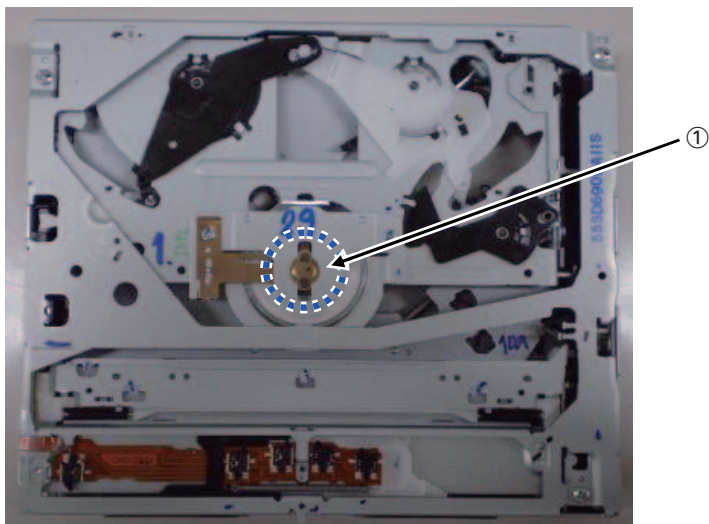
* Note: Do not directly look at laser beam in adjustment.

F

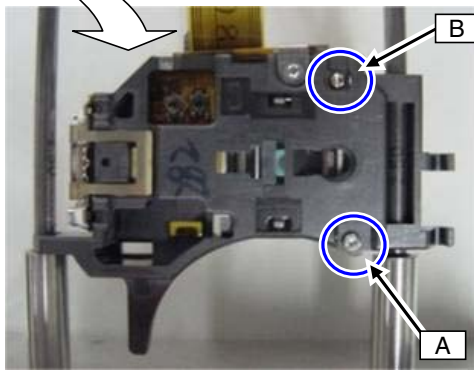
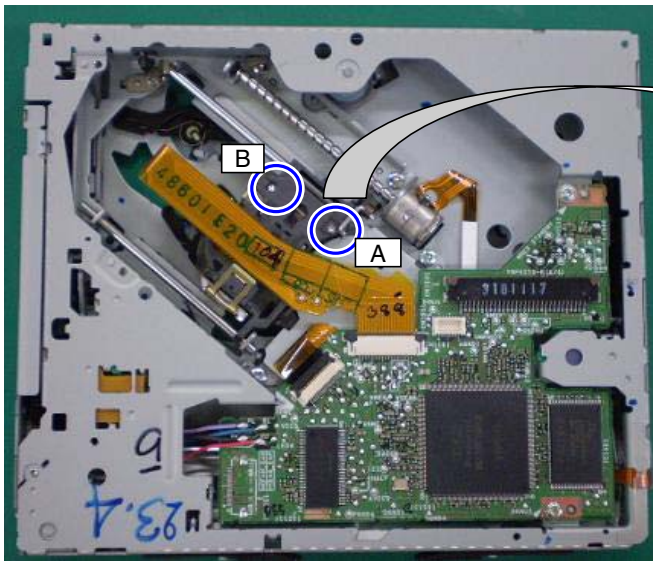
There are two types of adjustments available: adjustment while monitoring the RF waveform with the oscilloscope (method ①) and adjustment while checking the RF level values with the OSD (method ②).
 The adjustment procedure is shown below. For how to enter the test mode and the operation procedure, see the sections in the Service Test Mode.

Adjustment procedure:

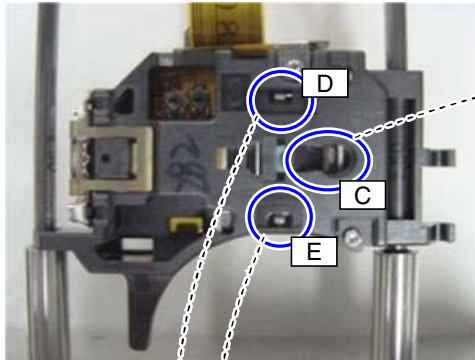
1. Turn back the DVD mechanism module to ensure pickup adjustment.
As turning back the module may result in the scratched disc, place a coin around 1.5mm thick on the desk, and turn back and set the module so that the spot indicated in ① comes directly above the coin.
2. Attach the pickup.
(See How to Remove the Pickup of the Mecha Unit.)
For the precautions in handling the pickup, see the Precautions in PU Handling below:
3. For the method ①:
Refer to the connection diagram and connect the oscilloscope based on AGND2 so the RF signal can be monitored.
For the method ②:
The device requires no setting. Skip to the fourth procedure.
4. Power ON the product and load the adjustment disc (GGV1025).
5. After setting the disc type to 1 DVD layer in the front-end test mode, power ON and move the pickup to the inner circumference (CRG-Home).
6. LD ON
7. Execute focus close, all automatic adjustment in the status and tracking close.
Further, execute all automatic adjustment in that status as well.
8. Search the middle circumference (ID: 100000) and take the pickup to the middle circumference.
9. For the method ①:
Skip to the tenth procedure.
For the method ②:
After Tracking Open first, execute all automatic adjustment and then tracking close with the command that can be displayed in RF.
Further, execute all automatic adjustment in that status as well.
10. Using the torques (T2) driver,
For the method ①:
Slightly screw the skew adjustment screw A while viewing the RF waveform level of the oscilloscope to maximize the level.
Slightly screw the skew adjustment screw B while the pickup stays in the middle circumference to maximize the level.
Slightly screw the skew adjustment screw A again while the pickup stays in the middle circumference to maximize the level.
(Perform adjustment in order of A => B => A, and finally rotate the screws clockwise to complete adjustment.)
For the method ②:
Slightly screw the skew adjustment screw A while viewing the RF level value in the OSD display to maximize the level.
Slightly screw the skew adjustment screw B while the pickup stays in the middle circumference to maximize the level.
Slightly screw the skew adjustment screw A again while the pickup stays in the middle circumference to maximize the level.
(Perform adjustment in order of A => B => A, and finally rotate the screws clockwise to complete adjustment.)
11. Power OFF in the test mode, and check that the disc is stopped before ejecting.
12. Apply adhesive for fixing skew and screw lock.
See the figure below for the spots to adhere.



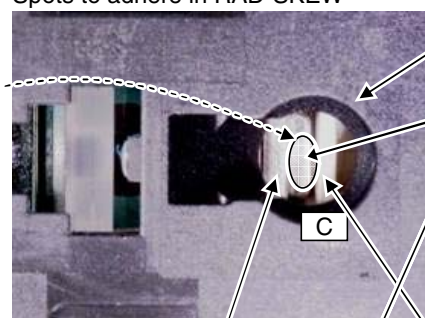
Spots for SKEW adjustment



Spots to adhere in SKEW



Spots to adhere in RAD-SKEW



PU case

Spots to apply adhesive

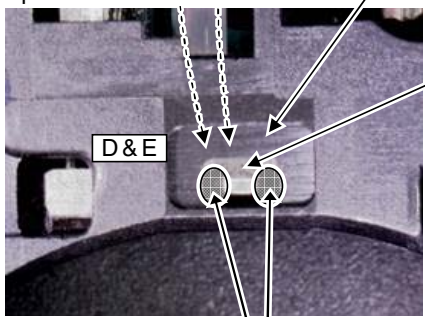
Sheet-metal (yoke base) part

Resin (suspension supporter) part

Sectional diagram of the spot to adhere in R-SKEW

* Note: Make sure to cross-link both the resin and sheet-metal parts.

Spots to adhere in TAN-SKEW



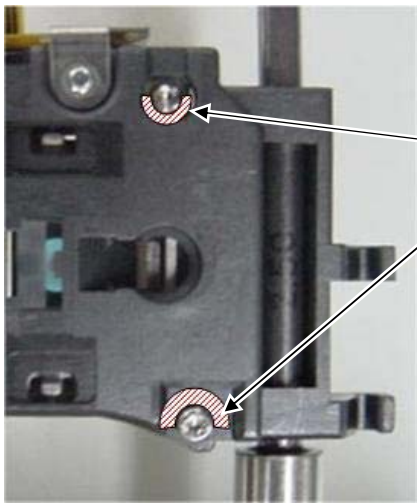
PU case

Sheet-metal (yoke base) part

Spots to apply adhesive

* Note: Make sure to cross-link both the case and sheet-metal parts.

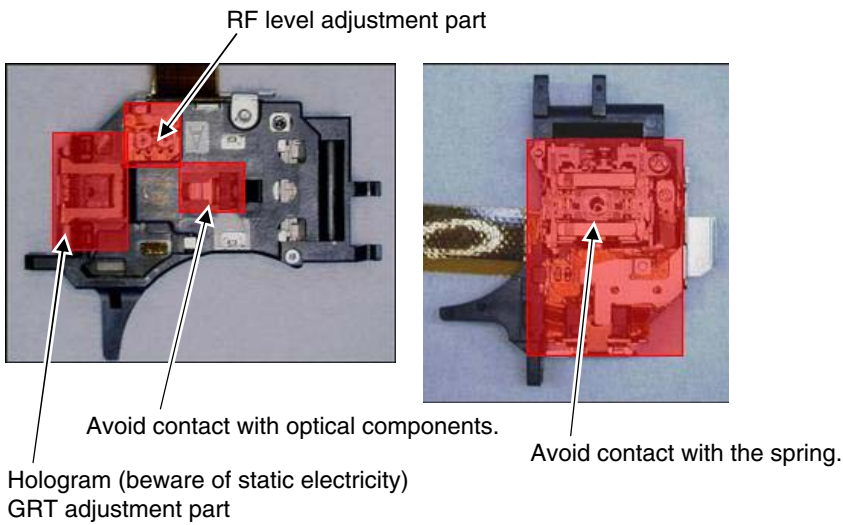
Spots to apply screw lock



Spots to apply screw lock
 Apply screw lock more than half around a screw head
 * Note: Screw lock should not run off the outermost edge of the PU case.

Precautions in handling pickup

* Note: Avoid contact with the shaded part shown in the figure below.



8.2 PCL OUTPUT CONFIRMATION



A

● PCL Output

In the normal operation mode (with the detachable panel installed, the ACC switched ON, the standby mode cancelled), shift the TESTIN IC401 (Pin 80) terminal to H.

The clock signal is output from the CLKOUT terminal IC601 (Pin 87).

The frequency of the clock signal is 9.375 MHz that is three 4th of the fundamental frequency.

The clock signal should be 9.375 MHz (± 375 Hz).

If the clock signal is out of the range, the X'tal (X401) should be replaced with new one.

B

C

D

E

F

A

B



C

D

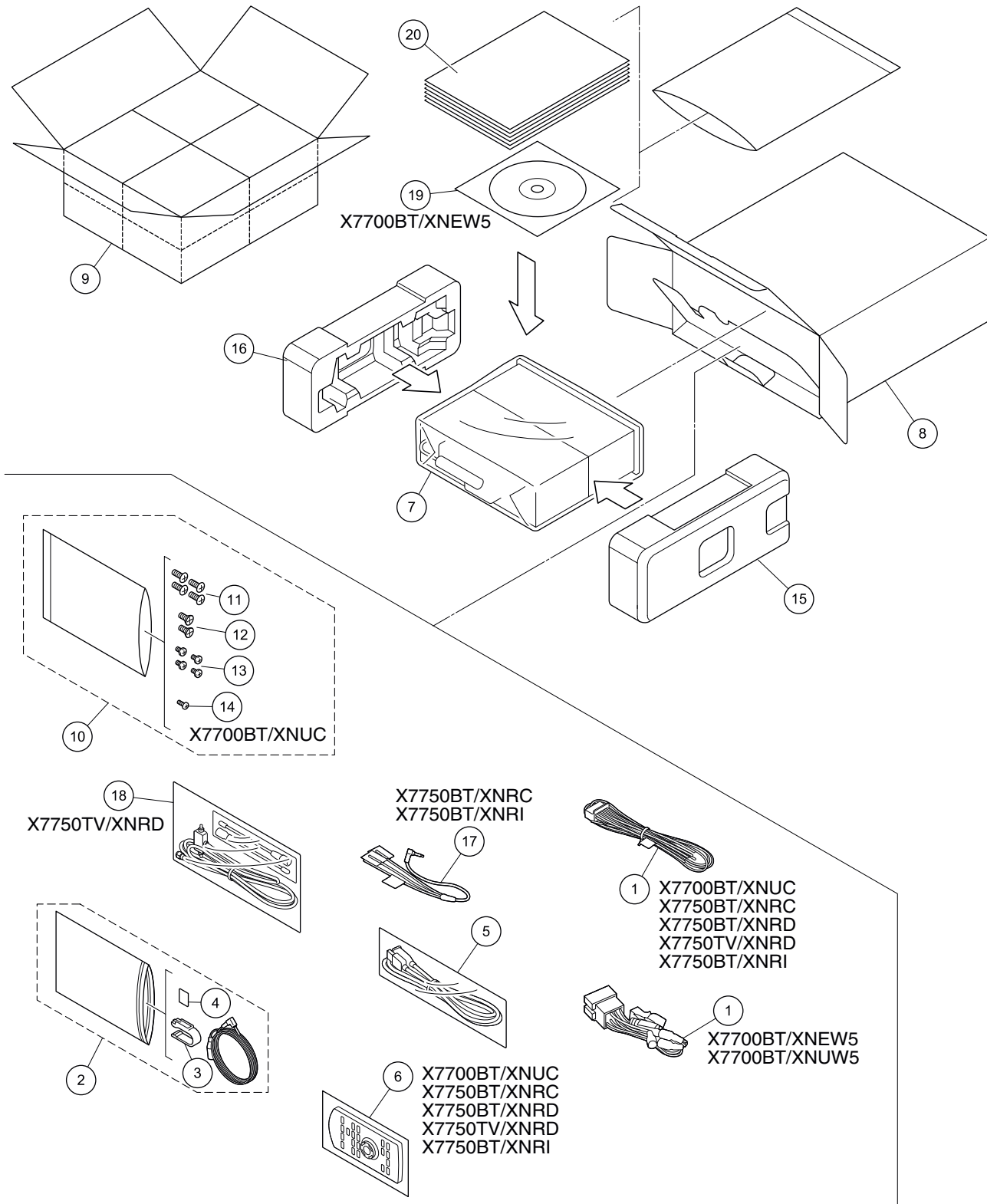
E

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	Cord Assy	See Contrast table (2)	14	Screw	See Contrast table (2)
2	Microphone Assy	CPM1083	15	Protector	CHP4684
3	Holder	CZN7192			
4	Cushion	CZN7193	16	Protector	CHP4685
5	USB Extended Cable	CDP1587	17	Cord Assy	See Contrast table (2)
			18	Rod Antenna	See Contrast table (2)
6	Card Remote Control Unit	See Contrast table (2)	19	IM CD-ROM	See Contrast table (2)
7	Cover	See Contrast table (2)	* 20-1	Warranty Card	See Contrast table (2)
8	Unit Box	See Contrast table (2)			
9	Contain Box	See Contrast table (2)	20-2	Owner's Manual	See Contrast table (2)
10	Screw Assy	See Contrast table (2)	20-3	Installation Manual	See Contrast table (2)
			20-4	Quick Start Guide	See Contrast table (2)
11	Screw	BMZ50P060FTC	* 20-5	Caution Card	See Contrast table (2)
12	Screw	CMZ50P060FTC	* 20-6	Caution Card	See Contrast table (2)
13	Screw (M4 x 3)	CBA1870			

(2) CONTRAST TABLE

AVH-X7700BT/XNUC, AVH-X7700BT/XNEW5, AVH-X7700BT/XNUW5, AVH-X7750BT/XNRC, AVH-X7750BT/XNRD, AVH-X7750TV/XNRD and AVH-X7750BT/XNRI are constructed the same except for the following:

<u>Mark</u>	<u>No.</u>	<u>Description</u>	<u>AVH-X7700BT/ XNUC</u>	<u>AVH-X7700BT/ XNEW5</u>	<u>AVH-X7700BT/ XNUW5</u>	<u>AVH-X7750BT/ XNRC</u>
	1	Cord Assy	CDP1665	CDP1670	CDP1670	CDP1665
	6	Card Remote Control Unit	CXE5116	Not used	Not used	CXE5116
	7	Cover	CEG1544	CEG1474	CEG1474	CEG1474
	8	Unit Box	CHG8752	CHG8750	CHG8751	CHG8753
	9	Contain Box	CHL8752	CHL8750	CHL8751	CHL8753
	10	Screw Assy	CEC4353	CEC2991	CEC2991	CEC2991
	14	Screw	BPZ20P060FTC	Not used	Not used	Not used
	17	Cord Assy	Not used	Not used	Not used	CDP1655
	18	Rod Antenna	Not used	Not used	Not used	Not used
	19	IM CD-ROM	Not used	CPJ1485	Not used	Not used
*	20-1	Warranty Card	QRY3001	CRY1376	CRY1376	Not used
	20-2	Owner's Manual	CRD4829	Not used	CRB4468	CRD4830
	20-3	Installation Manual	Not used	CRD4828	Not used	Not used
	20-4	Quick Start Guide	Not used	CRD4827	Not used	Not used
*	20-5	Caution Card	Not used	CRP1436	Not used	Not used
*	20-6	Caution Card	Not used	CRP1441	Not used	Not used

<u>Mark</u>	<u>No.</u>	<u>Description</u>	<u>AVH-X7750BT/ XNRD</u>	<u>AVH-X7750TV/ XNRD</u>	<u>AVH-X7750BT/ XNRI</u>
	1	Cord Assy	CDP1665	CDP1665	CDP1665
	6	Card Remote Control Unit	CXE5116	CXE5116	CXE5116
	7	Cover	CEG1474	CEG1474	CEG1474
	8	Unit Box	CHG8754	CHG8761	CHG8755
	9	Contain Box	CHL8754	CHL8761	CHL8755
	10	Screw Assy	CEC2991	CEC2991	CEC2991
	14	Screw	Not used	Not used	Not used
	17	Cord Assy	Not used	Not used	CDP1655
	18	Rod Antenna	Not used	CXE7989	Not used
	19	IM CD-ROM	Not used	Not used	Not used
*	20-1	Warranty Card	Not used	Not used	Not used
	20-2	Owner's Manual	CRD4831	CRD4831	CRD4832
	20-3	Installation Manual	Not used	Not used	Not used
	20-4	Quick Start Guide	Not used	Not used	Not used
*	20-5	Caution Card	Not used	Not used	Not used
*	20-6	Caution Card	Not used	Not used	Not used

Owner's Manual, Installation Manual

Part No.	Language
CRB4468	Russian
CRD4827	English, French, Italian, Spanish(Espanol), German, Dutch
CRD4828	English, French, Italian, Spanish(Espanol), German, Dutch
CRD4829	English, French, Spanish(Espanol)
CRD4830	English, Traditional Chinese
CRD4831	English, Spanish(Espanol), Portuguese(B)
CRD4832	English, Arabic, Persian

CONTENTS OF CD-ROM (Operation Manual), CPJ1485

Part No.	Language
*CRB4455	English
*CRB4456	French
*CRB4457	Italian
*CRB4458	Spanish(Espanol)
*CRB4459	German
*CRB4460	Dutch
*CRB4461	Swedish
*CRB4462	Norwegian
*CRB4463	Finnish
*CRB4464	Danish
*CRB4465	Portuguese
*CRB4466	Greek
*CRB4467	Turkish

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

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

A

B

C

D

E

F

9.2 EXTERIOR (1)

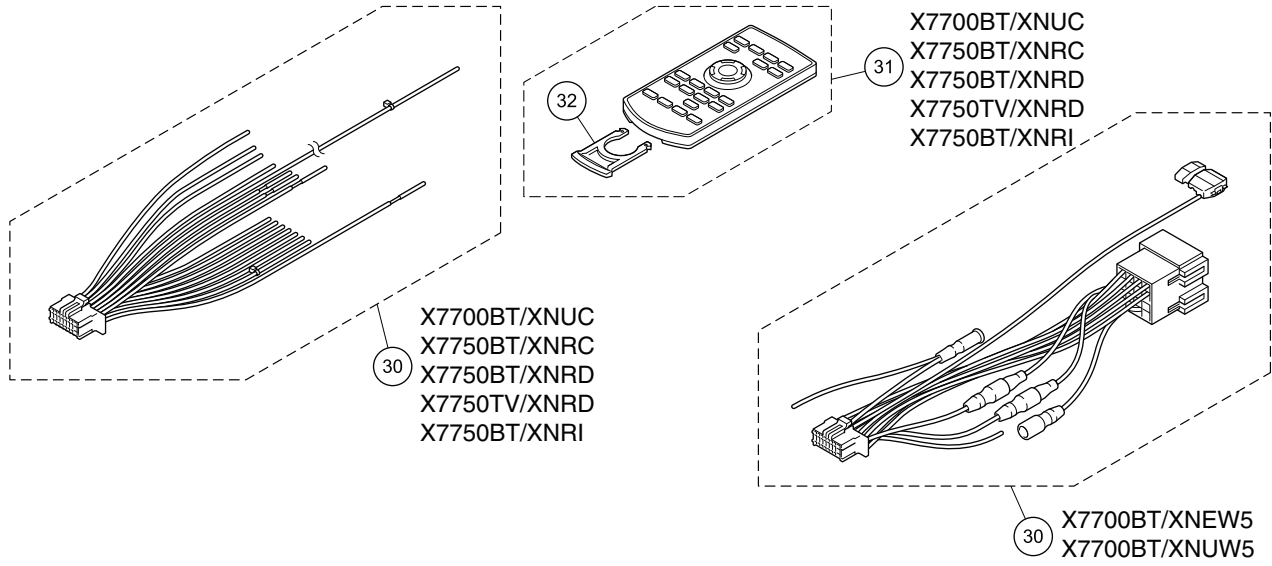
1

2

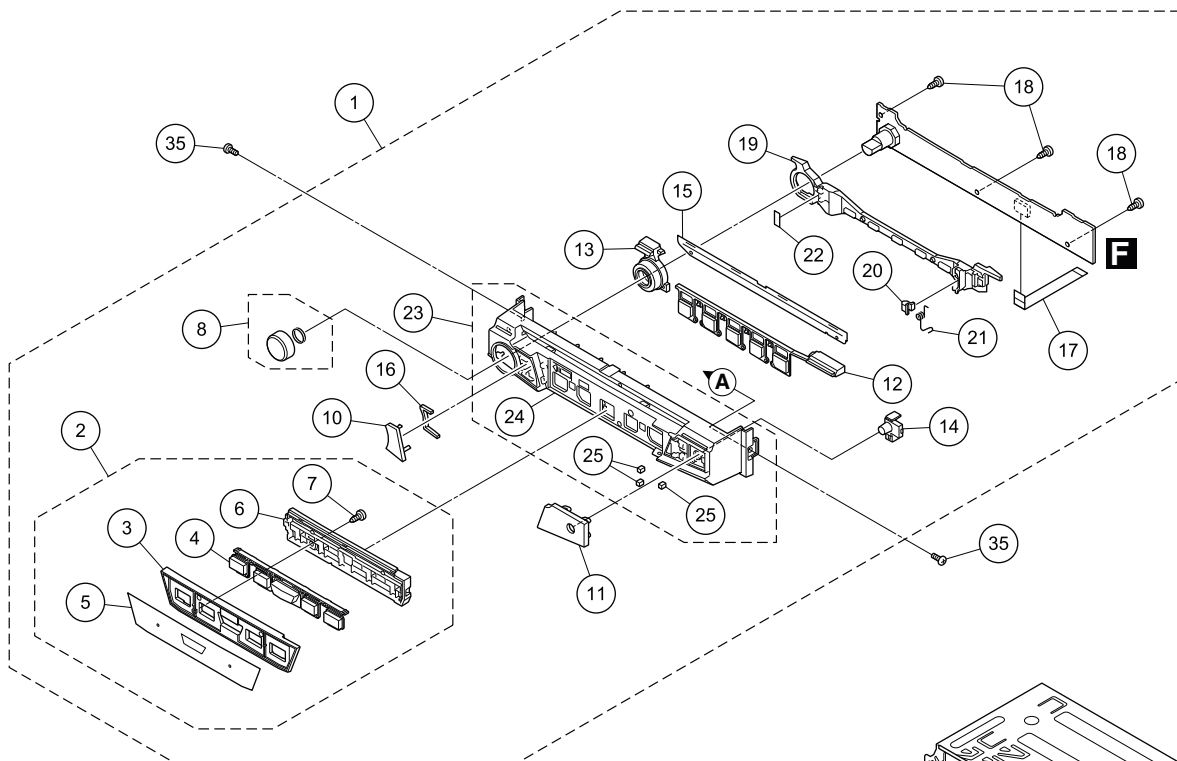
3

4

A

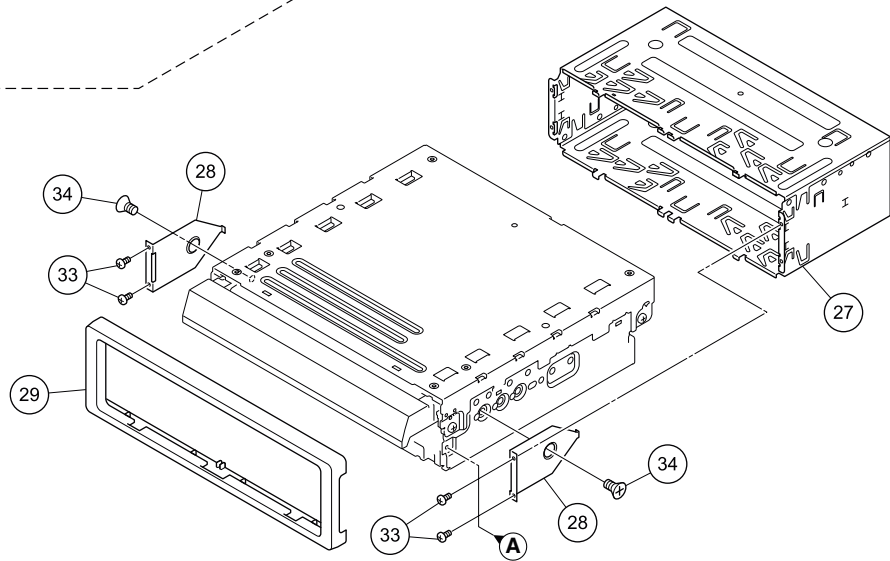


C



D

E



F

1

2

3

4

(1) EXTERIOR (1) SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Grille Assy	See Contrast table (2)	19	Lighting Conductor	CNW3300
2	Detach Grille Assy	See Contrast table (2)	20	Arm	CNV9891
3	Grille	CNU2892			
4	Button	CAI4446	21	Spring	CBH2997
5	Plate	See Contrast table (2)	22	Sheet	CNN4939
			23	Service Grille Unit	CXX7710
6	Cover	CNU2893	24	Grille Unit	CXE7594
7	Screw	BPZ20P060FTC	25	Cushion	QNM3094
8	Knob Unit	CXE5949			
9		26	
10	Button (DISP)	CAI4443	27	Holder	CND3854
			28	Bracket	CND3855
11	Button (EJECT)	CAI4444	29	Panel	CNU2269
12	Button	CAI4445	30	Cord Assy	See Contrast table (2)
13	Lighting Conductor	CNW3299			
14	Lighting Conductor	CNW3301	31	Card Remote Control Unit	See Contrast table (2)
15	Cover	CNN4266	32	Battery Cover	See Contrast table (2)
			33	Screw	BMZ20P025FTC
16	Cushion	CNN4832	34	Screw	CMZ50P060FTC
17	FFC	CDD1065	35	Screw	ISS26P055FTC
18	Screw	BPZ20P060FTC			

(2) CONTRAST TABLE

AVH-X7700BT/XNUC, AVH-X7700BT/XNEW5, AVH-X7700BT/XNUW5, AVH-X7750BT/XNRC, AVH-X7750BT/XNRD, AVH-X7750TV/XNRD and AVH-X7750BT/XNRI are constructed the same except for the following:

Mark	No.	Description	AVH-X7700BT/ XNUC	AVH-X7700BT/ XNEW5	AVH-X7700BT/ XNUW5	AVH-X7750BT/ XNRC
	1	Grille Assy	CXE7714	CXE7714	CXE7714	CXE7715
	2	Detach Grille Assy	CXE7721	CXE7721	CXE7721	CXE7722
	5	Plate	CNN4833	CNN4833	CNN4833	CNN4951
	30	Cord Assy	CDP1665	CDP1670	CDP1670	CDP1665
	31	Card Remote Control Unit	CXE5116	Not used	Not used	CXE5116
	32	Battery Cover	CNU1624	Not used	Not used	CNU1624

Mark	No.	Description	AVH-X7750BT/ XNRD	AVH-X7750TV/ XNRD	AVH-X7750BT/ XNRI
	1	Grille Assy	CXE7715	CXE7716	CXE7715
	2	Detach Grille Assy	CXE7722	CXE7723	CXE7722
	5	Plate	CNN4951	CNN4953	CNN4951
	30	Cord Assy	CDP1665	CDP1665	CDP1665
	31	Card Remote Control Unit	CXE5116	CXE5116	CXE5116
	32	Battery Cover	CNU1624	CNU1624	CNU1624

9.3 EXTERIOR (2)

1

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A

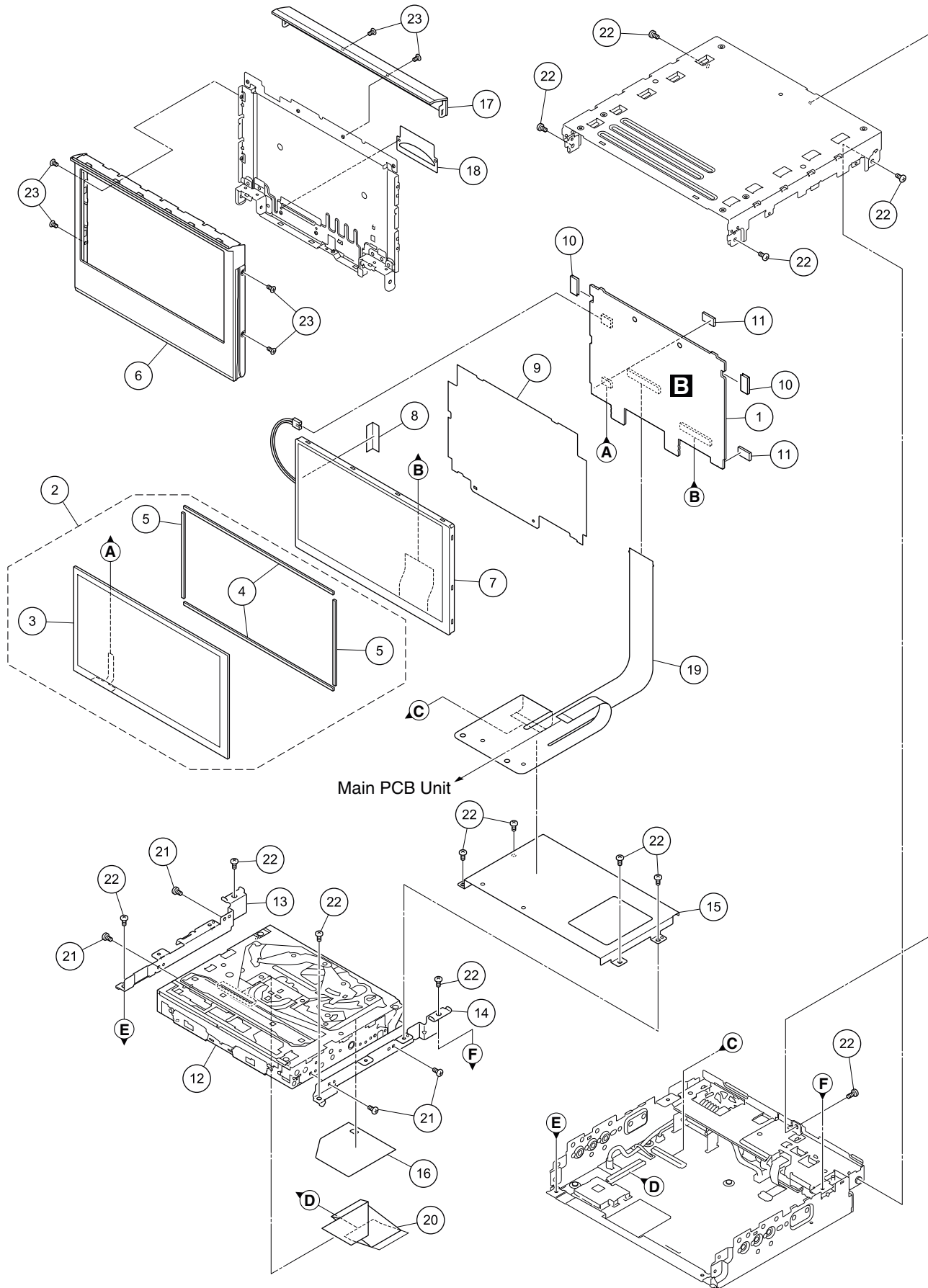
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Main PCB Unit

1

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EXTERIOR (2) SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
1	Monitor Unit	CWN9246	
2	Touch Panel Assy	CXE5830	A
3	Touch Panel	CSX1196	
4	Cushion	CNN4271	
5	Cushion	CNN4272	
6	Grille		
	X7700BT/XNUC	CNU2178	
	X7700BT/XNEW5	CNU3031	
	X7700BT/XNUW5	CNU3031	
	X7750BT/XNRC	CNU2178	
	X7750BT/XNRD	CNU2178	B
	X7750TV/XNRD	CNU2178	
	X7750BT/XNRI	CNU2178	
7	TFT LCD	CWX4352	
8	Sheet	CNN1694	
9	Insulator	CNN4259	
10	Sheet	CNN1750	
11	Gasket	CNN4740	
12	DVD Mechanism Module (MS7.2)	CXK6903	
13	Bracket	CND6668	C
14	Bracket	CND6669	
15	Bracket	CND6667	
16	Insulator	CNN2764	
17	Cover	CNU3032	
18	Sheet	CNN4437	
19	FPC	CNQ7214	
20	FFC	CDD1066	
21	Screw	BMZ20P025FTC	
22	Screw	BSZ26P060FTC	D
23	Screw (M2 x 2)	CBA1872	

9.4 EXTERIOR (3)

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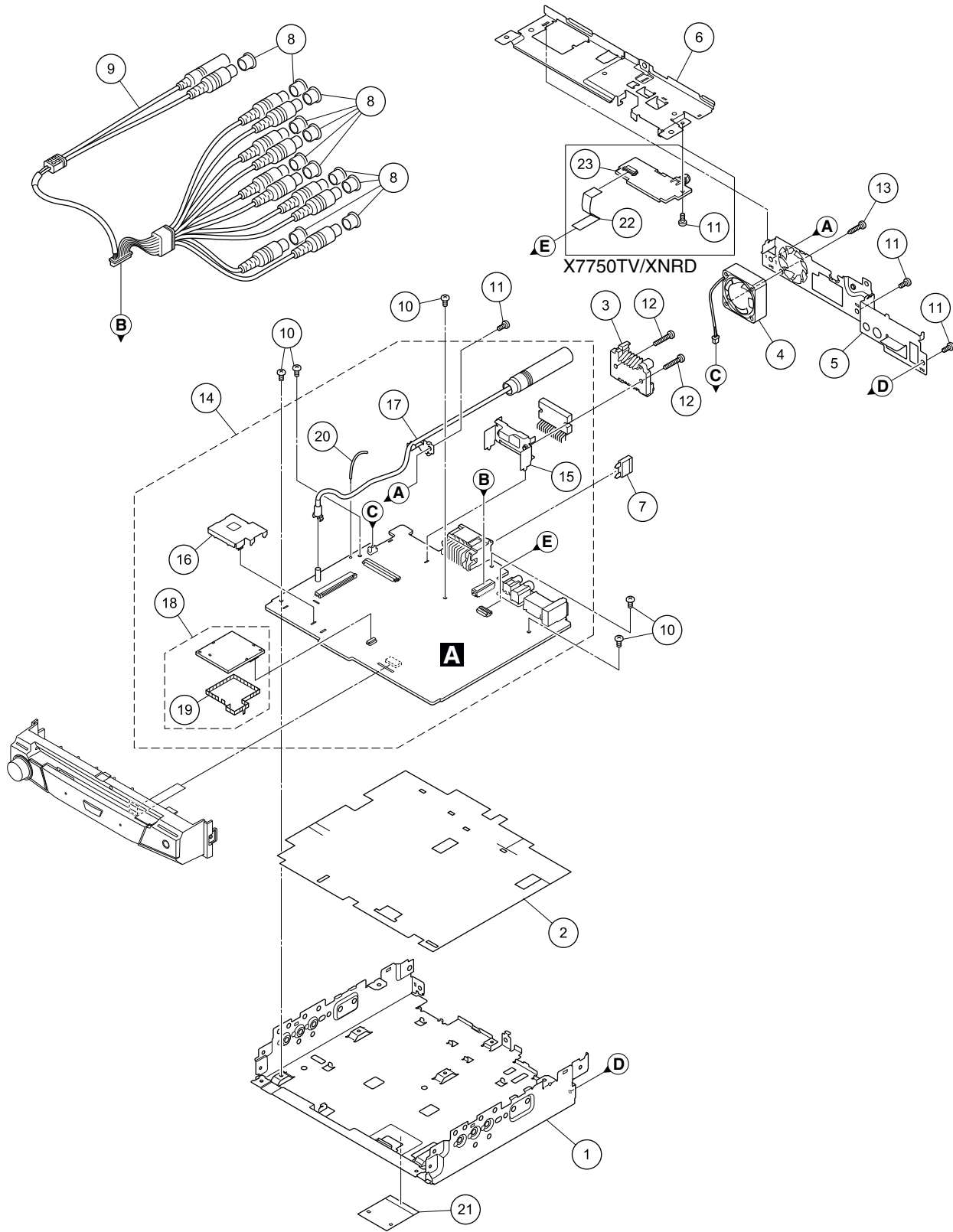
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(1) EXTERIOR (3) SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Chassis	CNA3339	13	Screw	BPZ26P080FTC
2	Insulator	CNN4835	14	Mother Unit	See Contrast table (2)
3	Heat Sink	CNR2177	15	Holder	CND6671
4	Fan Motor	CXM1460			
5	Holder	See Contrast table (2)	16	Shield Case	CND7316
6	Holder	CND7195	17	Antenna Cable	CDH1390
7	Fuse (10 A)	YEK5001	18	BT Module	YWX5053
8	Cap	CNV6727	19	Shield Case	YNC5123
9	Cord Assy	CDF1179	20	Clamper (CN2201)	CEF1046
10	Screw	BMZ26P040FTC	21	Sheet	CNN4834
11	Screw	BSZ26P060FTC	22	FFC	See Contrast table (2)
12	Screw	BSZ26P160FTC	23	DTT Tuner	See Contrast table (2)

(2) CONTRAST TABLE

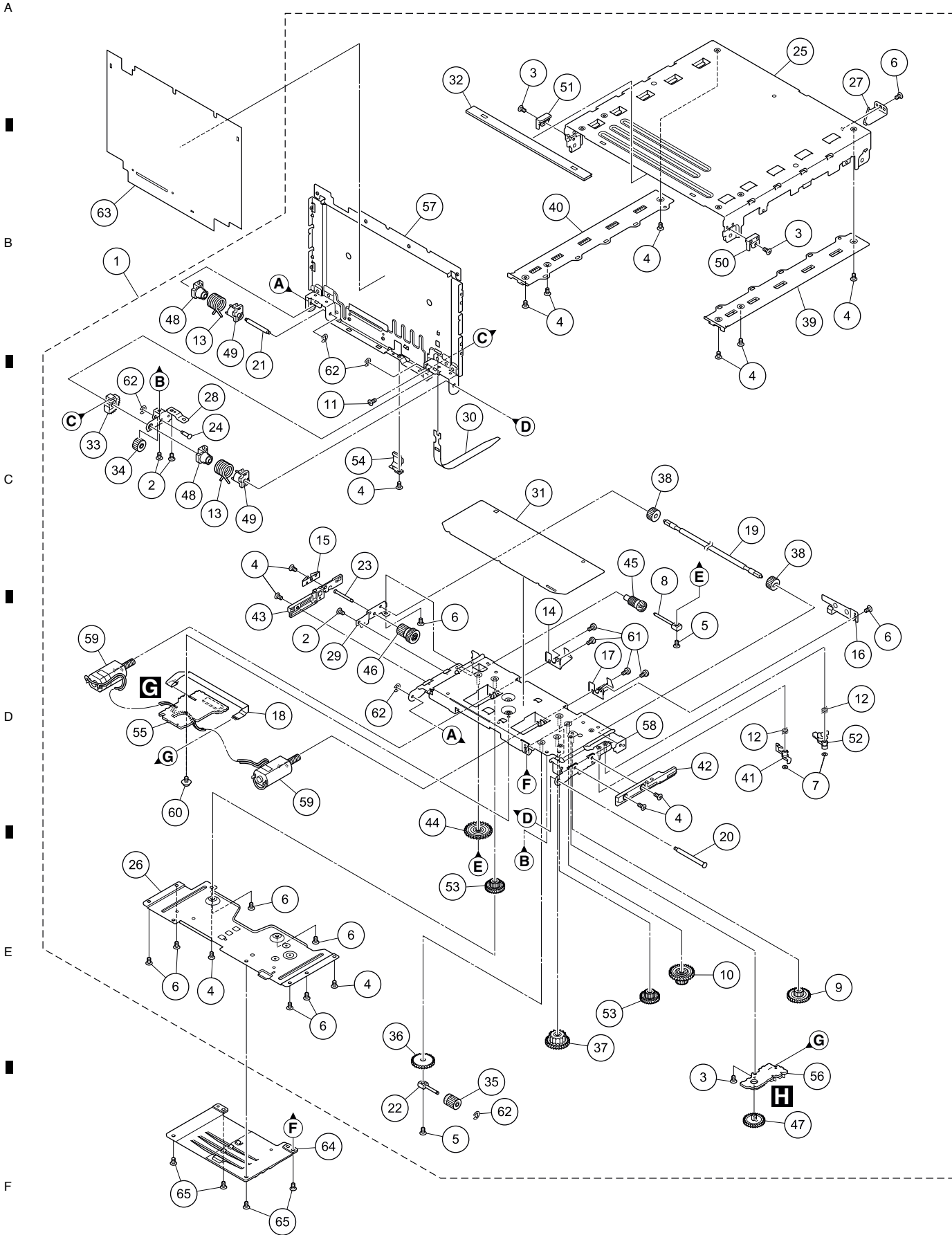
AVH-X7700BT/XNUC, AVH-X7700BT/XNEW5, AVH-X7700BT/XNUW5, AVH-X7750BT/XNRC, AVH-X7750BT/XNRD, AVH-X7750TV/XNRD and AVH-X7750BT/XNRI are constructed the same except for the following

Mark	No.	Description	AVH-X7700BT/ XNUC	AVH-X7700BT/ XNEW5	AVH-X7700BT/ XNUW5	AVH-X7750BT/ XNRC
	5	Holder	CND7192	CND7192	CND7192	CND7192
	14	Mother Unit	CWN8784	CWN8782	CWN8783	CWN8785
	22	FFC	Not used	Not used	Not used	Not used
	23	DTT Tuner	Not used	Not used	Not used	Not used

Mark	No.	Description	AVH-X7750BT/ XNRD	AVH-X7750TV/ XNRD	AVH-X7750BT/ XNRI
	5	Holder	CND7192	CND7194	CND7192
	14	Mother Unit	CWN8787	CWN8786	CWN8788
	22	FFC	Not used	CDD1067	Not used
	23	DTT Tuner	Not used	CWE2519	Not used

9.5 EXTERIOR (4)

The application position of grease is referred to page XXX and page XXX.



EXTERIOR (4) SECTION PARTS LIST

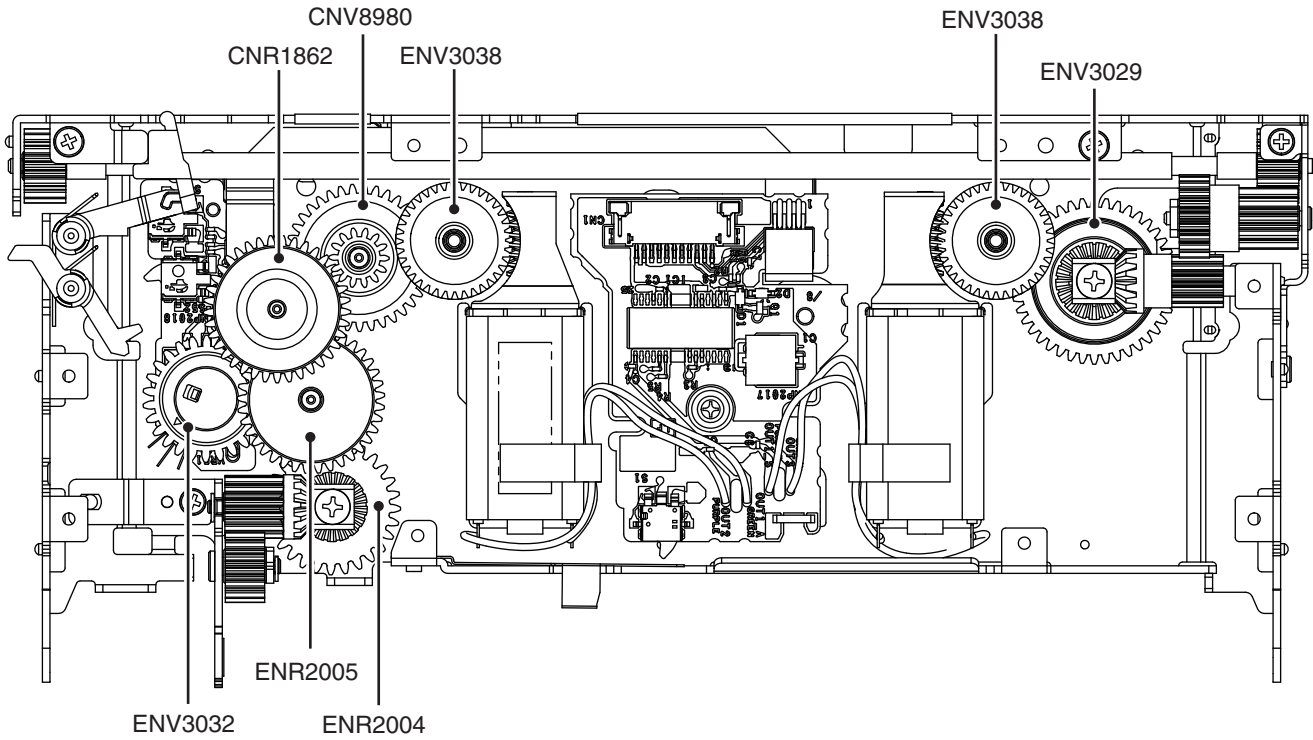
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Display Module Unit	CXE5803	50	Guide	ENV3035
2	Screw	CBA1608			
3	Screw (M2 x 1.5)	CBA1615	51	Guide	ENV3036
4	Screw (M2 x 3)	CBA1877	52	Arm	ENV3037
5	Screw (M2.3 x 6)	CBA2027	53	Gear	ENV3038
			54	Lever	ENV3039
6	Screw (M2 x 2)	CBA2129	55	Main PCB Unit	EWX2008
7	Washer	CBF1038			
8	Shaft	CLA4821	56	SW PCB Unit	EWX2009
9	Gear	CNR1862	57	Case Unit	EXA4010
10	Gear	CNV8980	58	Frame Unit	EXA4011
			59	Motor Unit	EXA4013
11	Screw	EBA2003	60	Screw	IMS20P030FTC
12	Torsion Spring	EBH3010			
13	Torsion Spring	EBH3011	61	Screw	JGZ20P025FTC
14	Plate Spring	EBL2005	62	Washer	YE15FTC
15	Plate Spring	EBL2006	63	Insulator	CNN4260
			64	Cover	CNW2687
16	Plate Spring	EBL2007	65	Screw (M2 x 3)	CBA1877
17	Plate Spring	EBL2008			
18	FFC	EDD2002			
19	Shaft	ELA3022			
20	Shaft	ELA3023			
21	Shaft	ELA3024			
22	Shaft	ELA3026			
23	Shaft	ELA3027			
24	Shaft	ELA3028			
25	Chassis	ENA3007			
26	Cover	ENC2025			
27	Lever	ENC2026			
28	Holder	ENC2027			
29	Holder	ENC2032			
30	Sheet	ENM3002			
31	Sheet	ENM3003			
32	Sheet	ENM3004			
33	Gear	ENR2001			
34	Gear	ENR2002			
35	Gear	ENR2003			
36	Gear	ENR2004			
37	Gear	ENR2005			
38	Gear	ENV3023			
39	Rack	ENV3024			
40	Rack	ENV3025			
41	Arm	ENV3026			
42	Guide	ENV3027			
43	Guide	ENV3028			
44	Gear	ENV3029			
45	Gear	ENV3030			
46	Gear	ENV3031			
47	Gear	ENV3032			
48	Holder	ENV3033			
49	Holder	ENV3034			

● The gear assembly figure of the Drive Unit

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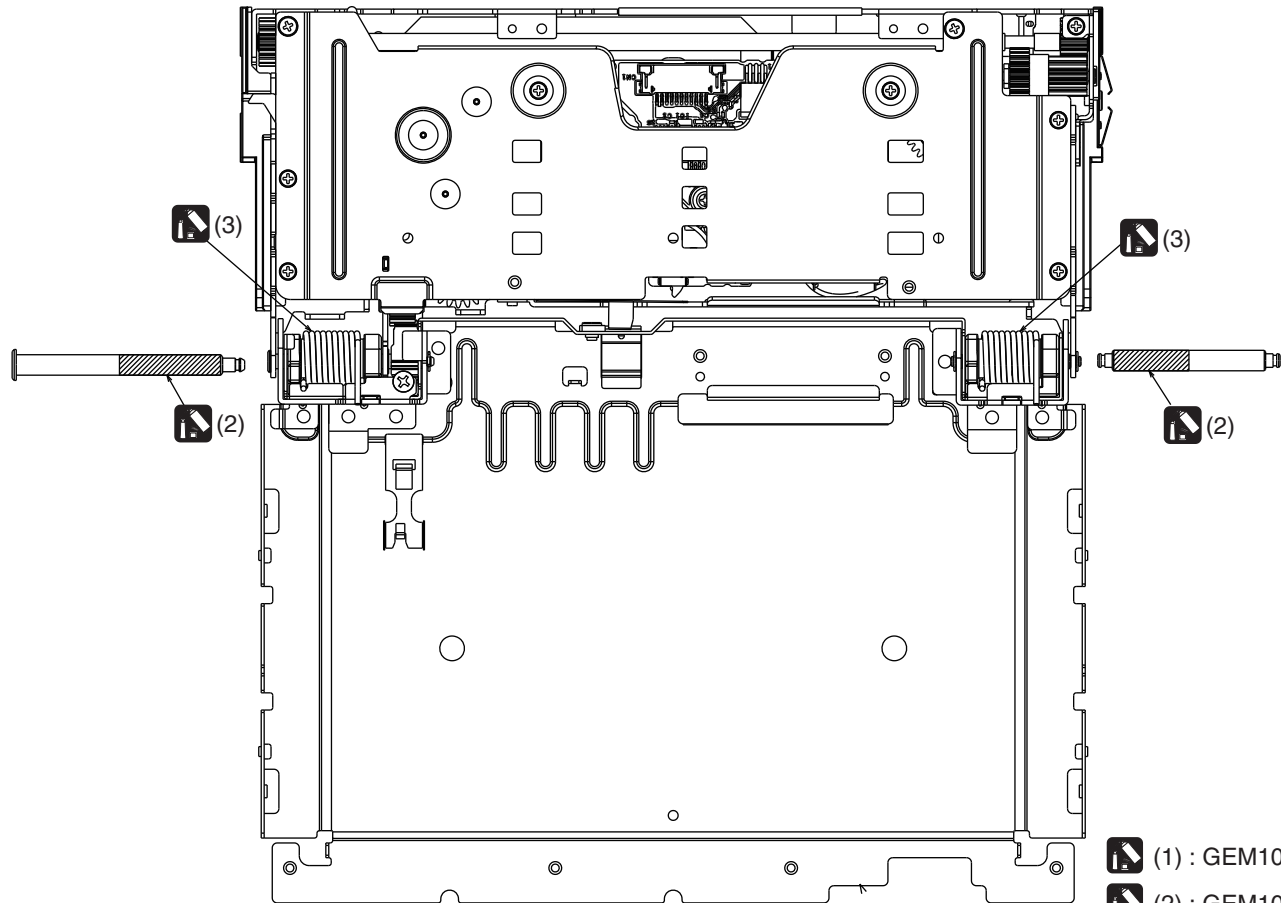


● Grease

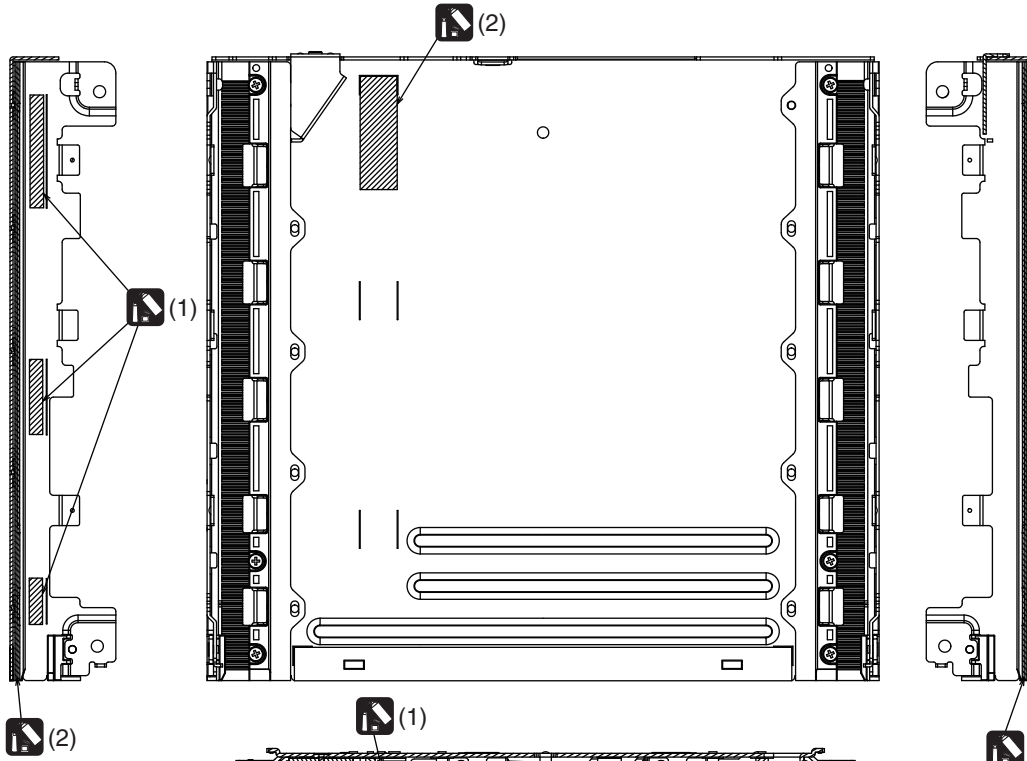
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- (1) : GEM1024
- (2) : GEM1043
- (3) : GEM1084

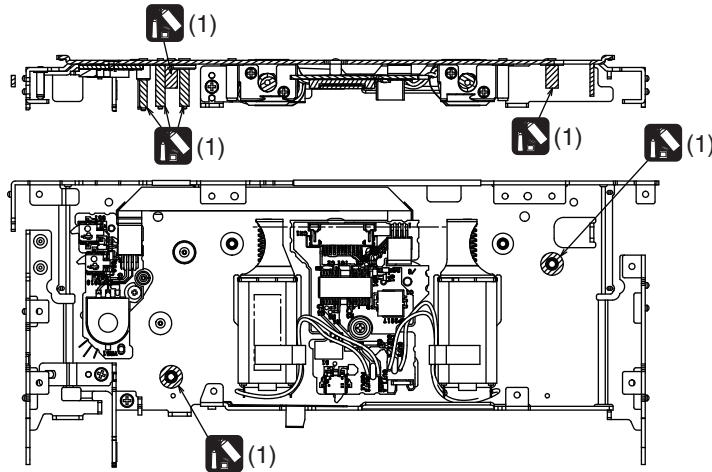


A

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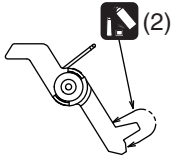
C

(1) : GEM1024
 (2) : GEM1043



D

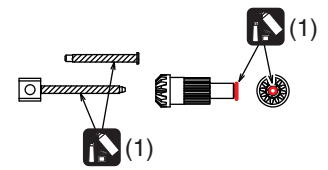
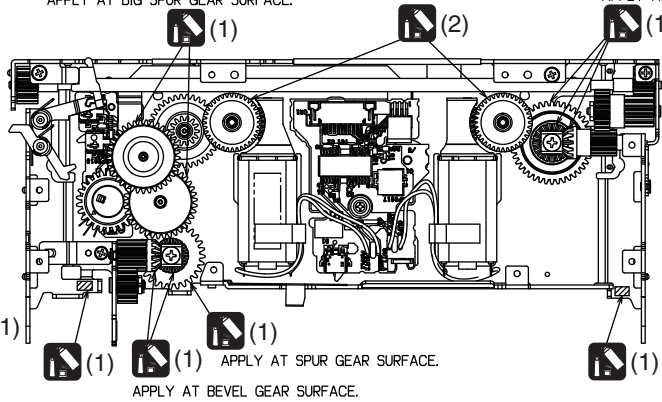
APPLY AT INDICATED SIDE SURFACE.



APPLY AT BIG SPUR GEAR SURFACE.

APPLY AT ALL SURFACE OF GEAR.

APPLY AT GEAR SURFACE.



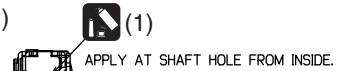
E

APPLY AT SPUR GEAR SURFACE.

APPLY AT BEVEL GEAR SURFACE.

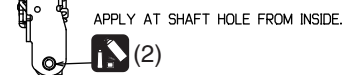


APPLY AT SHAFT HOLE FROM INSIDE.

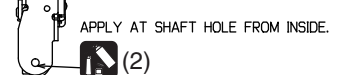


APPLY AT SHAFT HOLE FROM INSIDE.

F



APPLY AT SHAFT HOLE FROM INSIDE.



APPLY AT SHAFT HOLE FROM INSIDE.

9.6 DVD MECHANISM MODULE

A

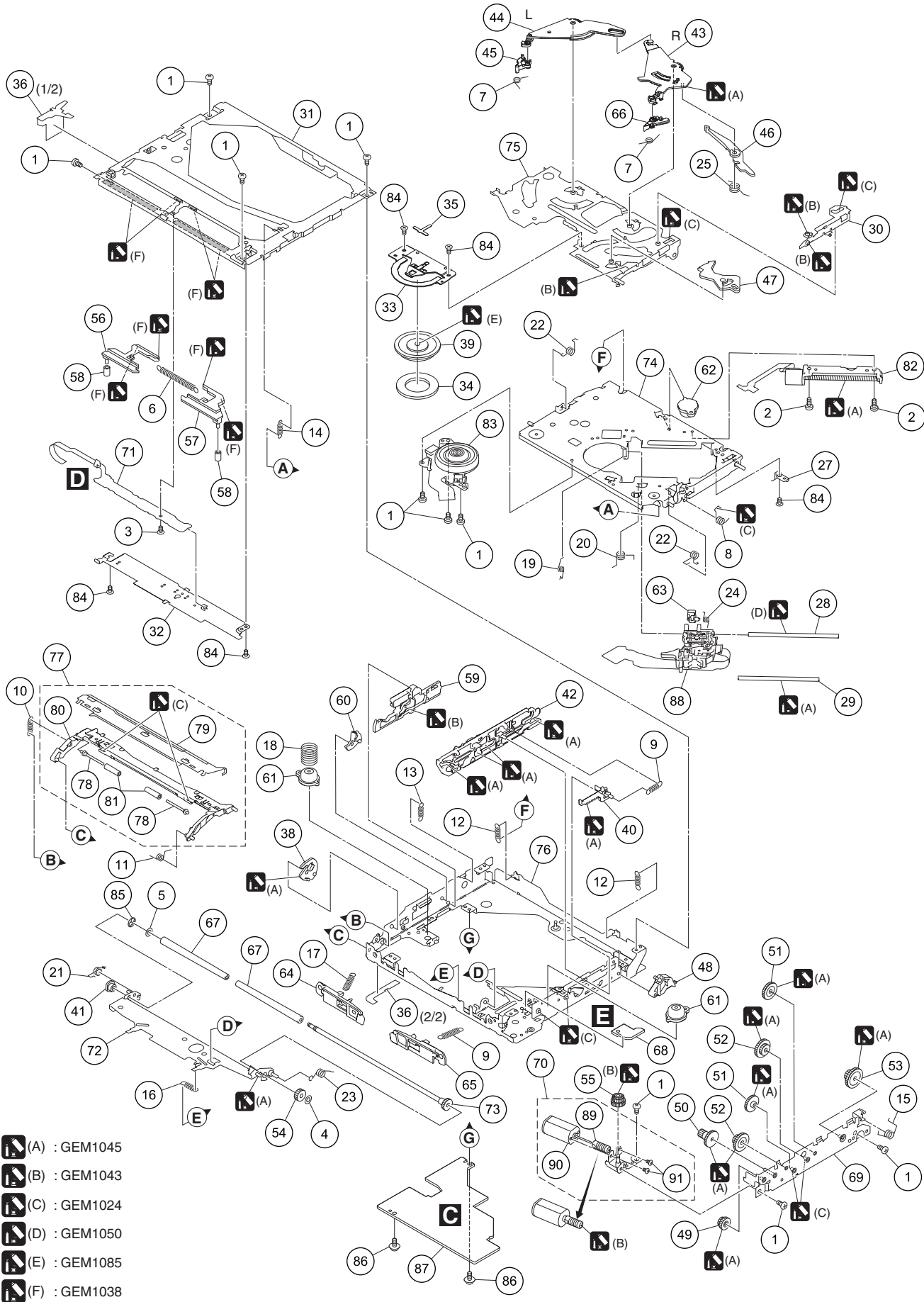
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5 6 7 8
DVD MECHANISM MODULE SECTION PARTS LIST

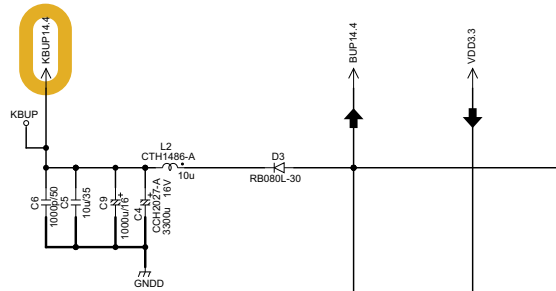
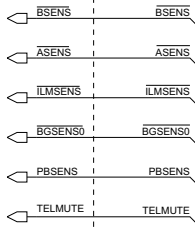
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Screw	BMZ20P020FTC	50	Gear	CNV8875
2	Screw	BMZ20P025FNI			
3	Screw	CBA1787	51	Gear	CNV8876
4	Washer	CBF1038	52	Gear	CNV8877
5	Washer	CBF1064	53	Gear	CNV8878
			54	Gear	CNV8879
6	Spring	CBH2589	55	Gear	CNV8880
7	Spring	CBH2590			
8	Spring	CBH2592	56	Lever	CNV8903
9	Spring	CBH2593	57	Lever	CNV8904
10	Spring	CBH2596	58	Roller	CNV8905
			59	Lever	CNV8908
11	Spring	CBH2597	60	Arm	CNV8909
12	Spring	CBH2599			
13	Spring	CBH2600	61	Damper	CNV9061
14	Spring	CBH2601	62	Damper	CNV9062
15	Spring	CBH2604	63	Rack	CNV9063
			64	Arm	CNV9116
16	Spring	CBH2605	65	Arm	CNV9117
17	Spring	CBH2710			
18	Spring	CBH2711	66	Arm	CNW2082
19	Spring	CBH2890	67	Roller	CNV7165
20	Spring	CBH2935	68	Compound Unit(B)	CWX3394
			69	Bracket Unit	CXB8685
21	Spring	CBH2586	70	Brush Motor Unit(LOAD)(M1)	CXE4539
22	Spring	CBH2588			
23	Spring	CBH2898	71	Compound Unit(A)	CWX4034
24	Spring	CBH2926	72	Arm Unit	CXC5486
25	Spring	CBH2591	73	Roller Unit	CXC5708
			74	Chassis Unit	CXC6443
26		75	Arm Unit	CXC7872
27	Spring	CBL1726			
28	Shaft	CLA4918	*	76	Frame Unit
29	Shaft	CLA4919		77	Guide Unit
30	Lever	CND5494		78	Shaft
				79	Holder
31	Frame	CND2250		80	Guide
32	Holder	CND2251			
33	Holder	CNC9939	81	Collar	CNV9570
34	Sheet	CNN4503	82	Motor(STEPPING)(M2)	CXM1364
35	Sheet	CNM8283	83	Motor(SPDL)(M3)	CXM1435
			84	Screw	JFZ20P018FTC
36	Sheet	CNM9658	85	Washer	YE20FTC
37				
38	Cam	CNV7156	86	Screw	IMS20P030FTC
39	Clamper	CNV7158	87	DVD Core Unit(MS7.2)	CWX4606
40	Rack	CNV7175	88	Pickup Unit(Service)	CXX2558
			89	Gear	CNW2264
41	Collar	CNV8845	90	Motor	CXM1321
42	Lever	CNW1926			
43	Arm	CNV8867	91	Screw	JFZ14P020FTC
44	Arm	CNV8868			
45	Arm	CNW2081			
46	Arm	CNV8871			
47	Arm	CNV8872			
48	Arm	CNV8873			
49	Gear	CNV8874			

10. SCHEMATIC DIAGRAM

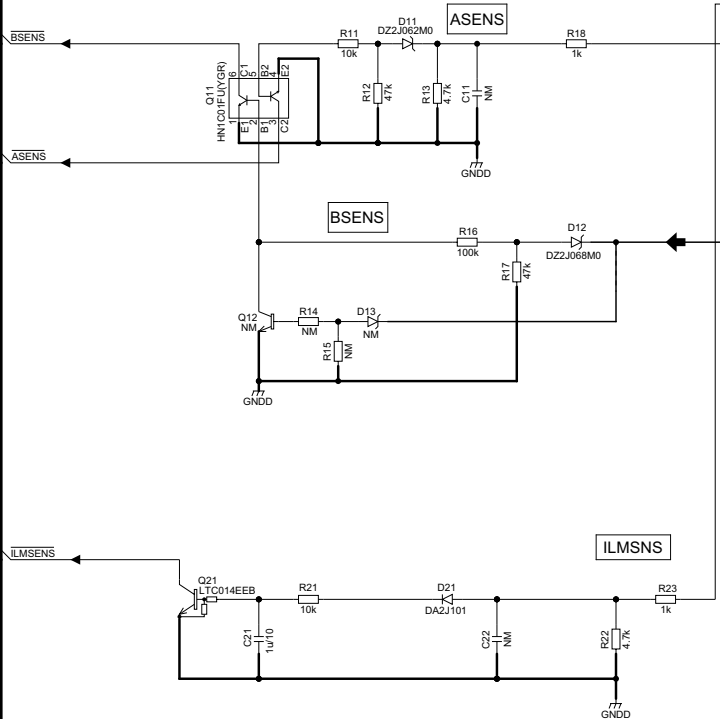
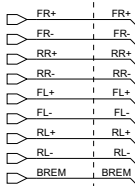
10.1 MOTHER UNIT (VEHICLE IF)

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

A/5/16



A/9/16

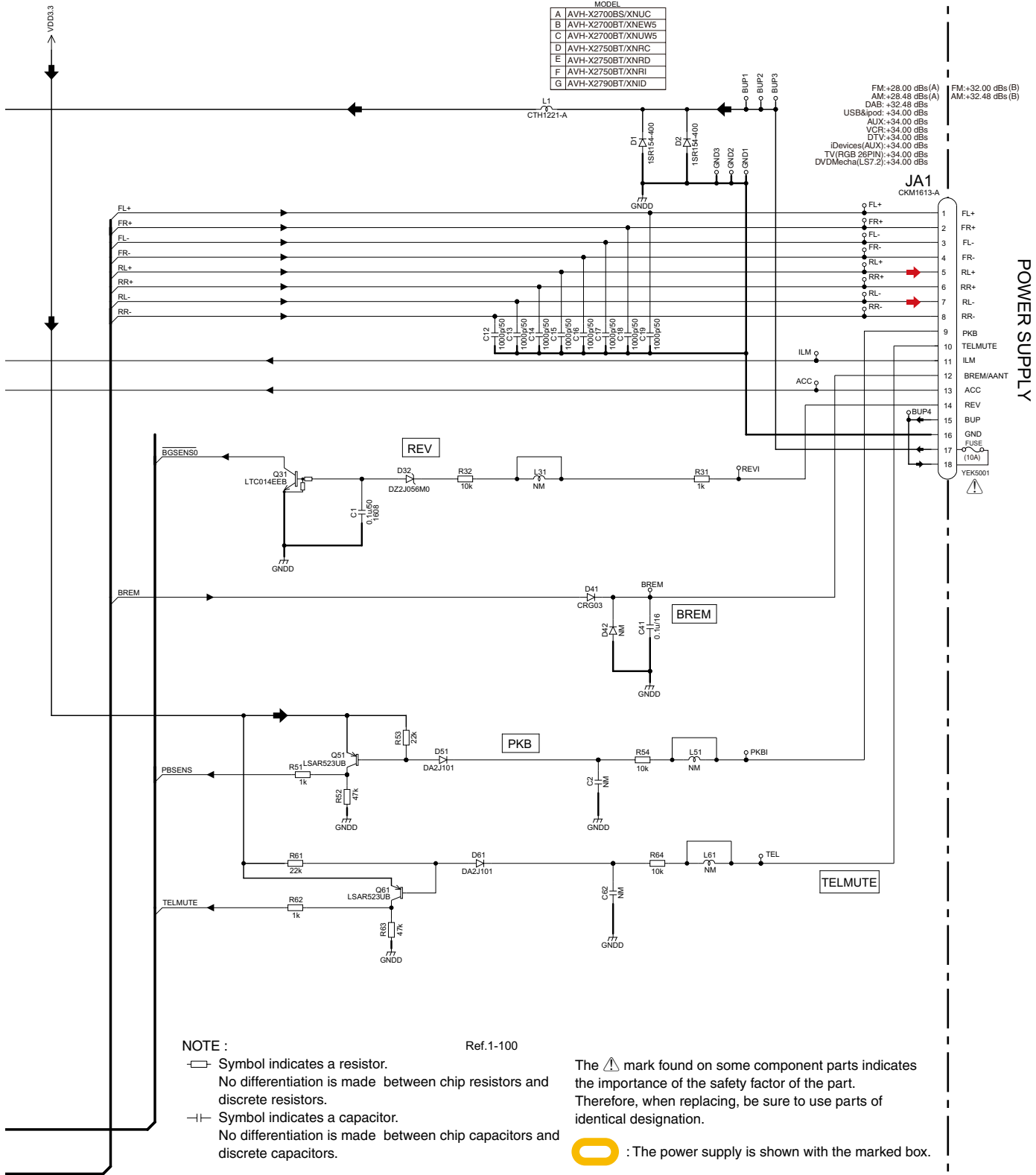


A/1/16

A1/16 MOTHER UNIT (VEHICLE IF)

MODEL	
A	AVH-X2700BS/XNUC
B	AVH-X2700BT/XNEW5
C	AVH-X2700BT/XNUW5
D	AVH-X2750BT/XNRC
E	AVH-X2750BT/XNRD
F	AVH-X2750BT/XNRI
G	AVH-X2790BT/XNID

- FM:+28.00 dBs(A)
- AM:+28.48 dBs(A)
- DAB:+32.48 dBs
- USB&pod:+34.00 dBs
- AUX:+34.00 dBs
- VCR:+34.00 dBs
- DTV:+34.00 dBs
- Devices(AUX):+34.00 dBs
- TV(RGB 26PIN):+34.00 dBs
- DVD/Mech(LS72):+34.00 dBs



POWER SUPPLY

NOTE :

- Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- ⊃ Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

Ref.1-100

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.

: The power supply is shown with the marked box.

NM : No Mount

10.2 MOTHER UNIT (PWR OTHER)

A

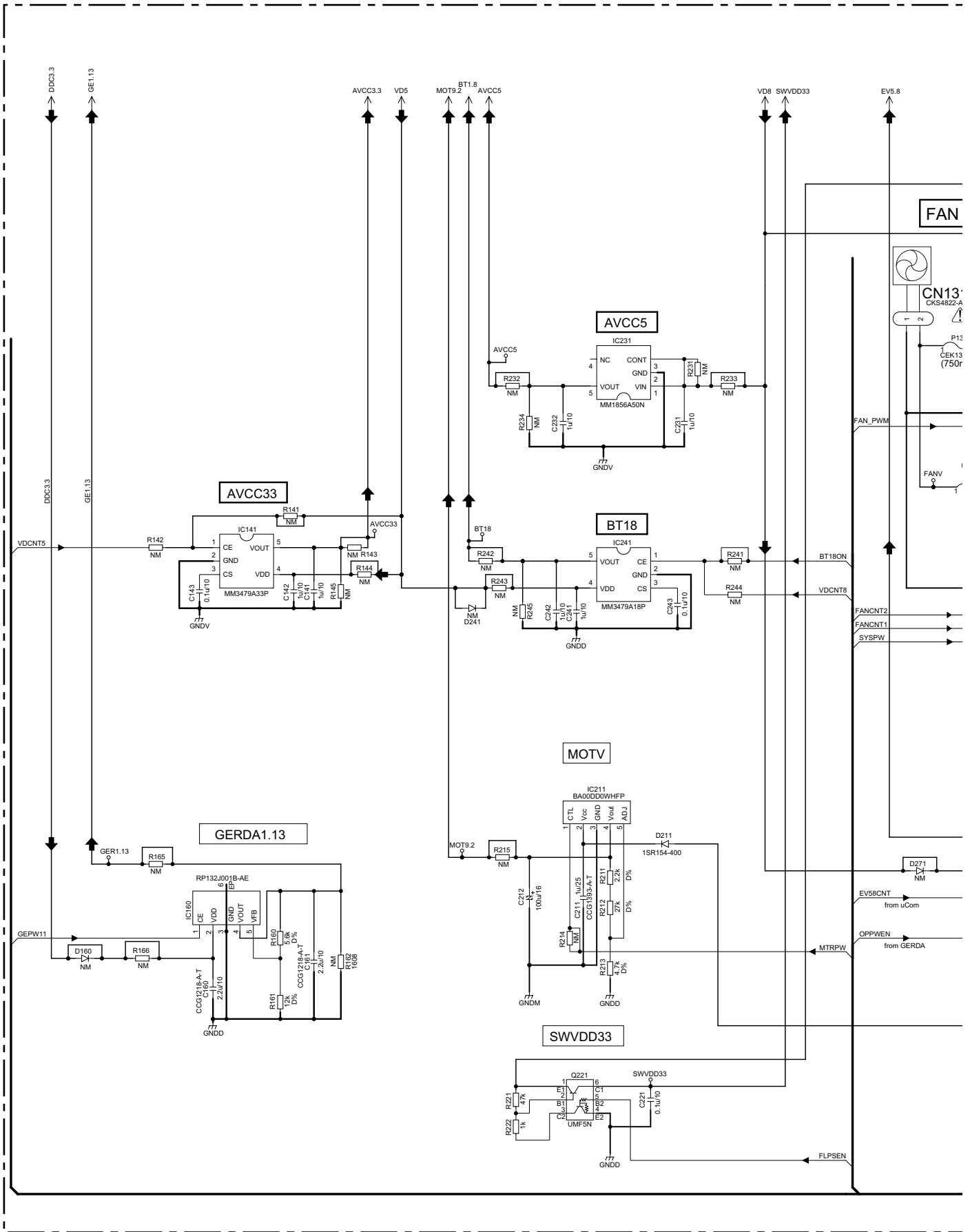
B

C

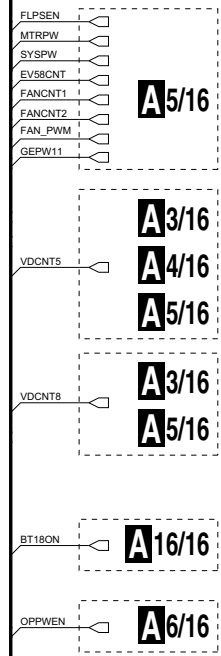
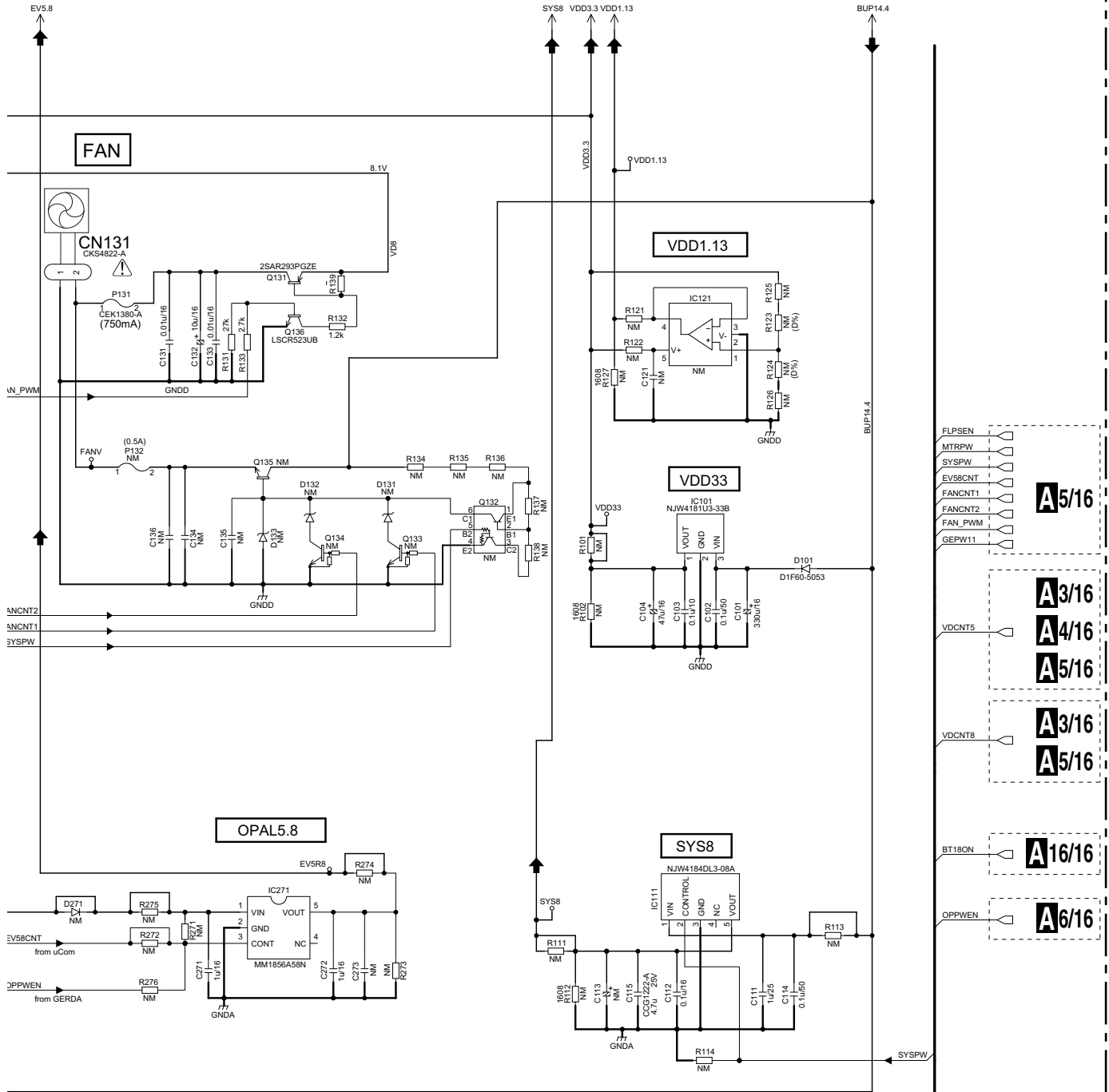
D

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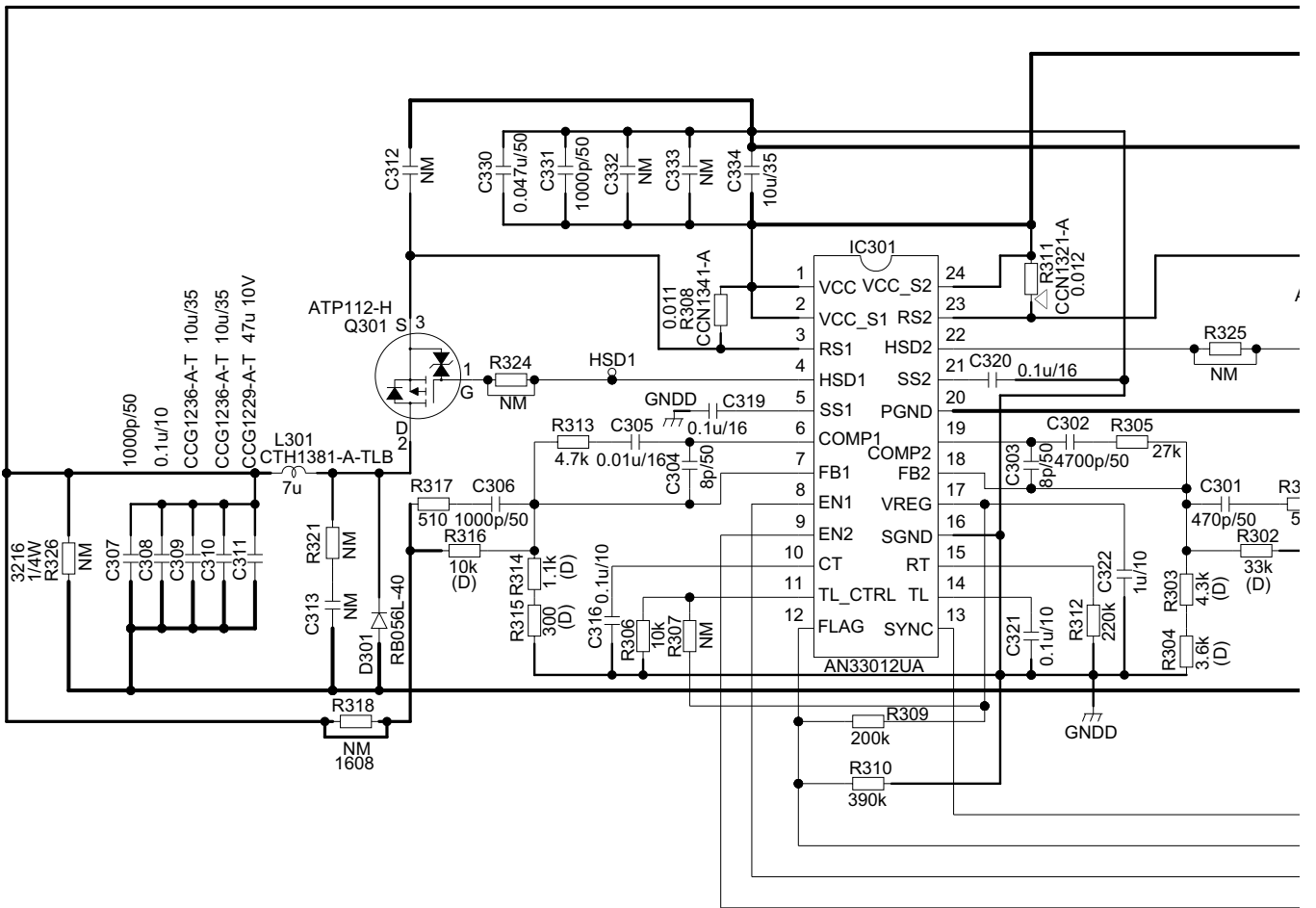
A 2/16 MOTHER UNIT (PWR OTHER)



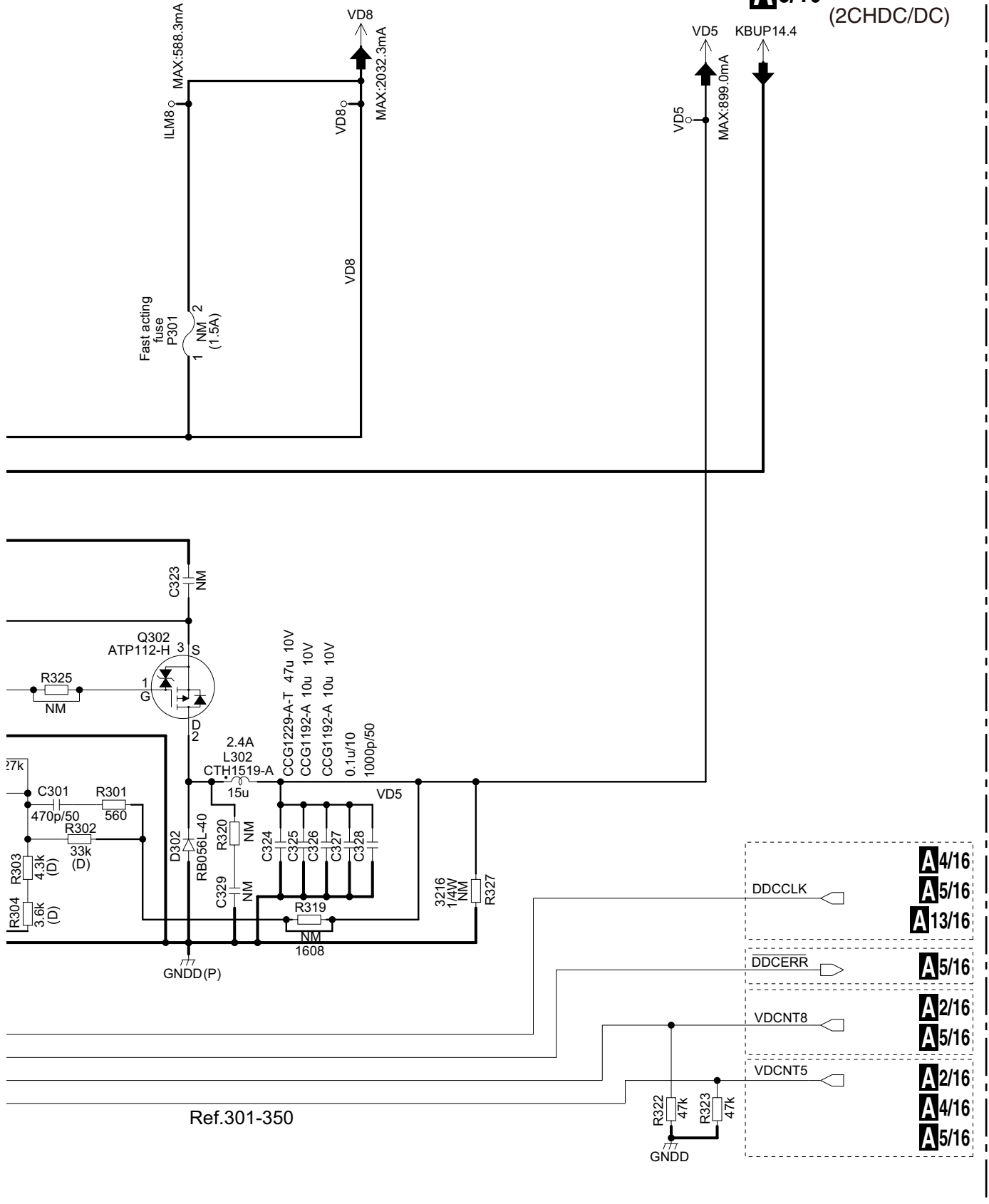
The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Ref.101-300

10.3 MOTHER UNIT (2CHDC/DC)



A3/16 MOTHER UNIT
(2CHDC/DC)

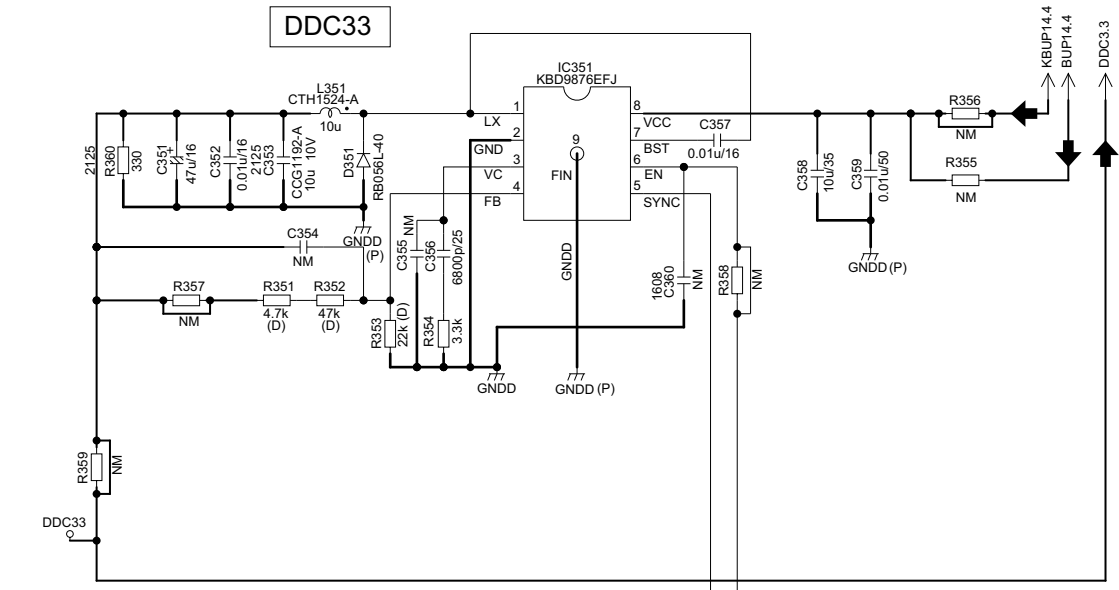


Ref.301-350

- A4/16:
- A5/16:
- A13/16:
- A5/16:
- A2/16:
- A5/16:
- A2/16:
- A4/16:
- A5/16:

10.4 MOTHER UNIT (1CHDC/DC)

A4/16 MOTHER UNIT (1CHDC/DC)



- A2/16**
 - A3/16**
 - A5/16**
-
- A3/16**
 - A5/16**
 - A13/16**



A4/16

A

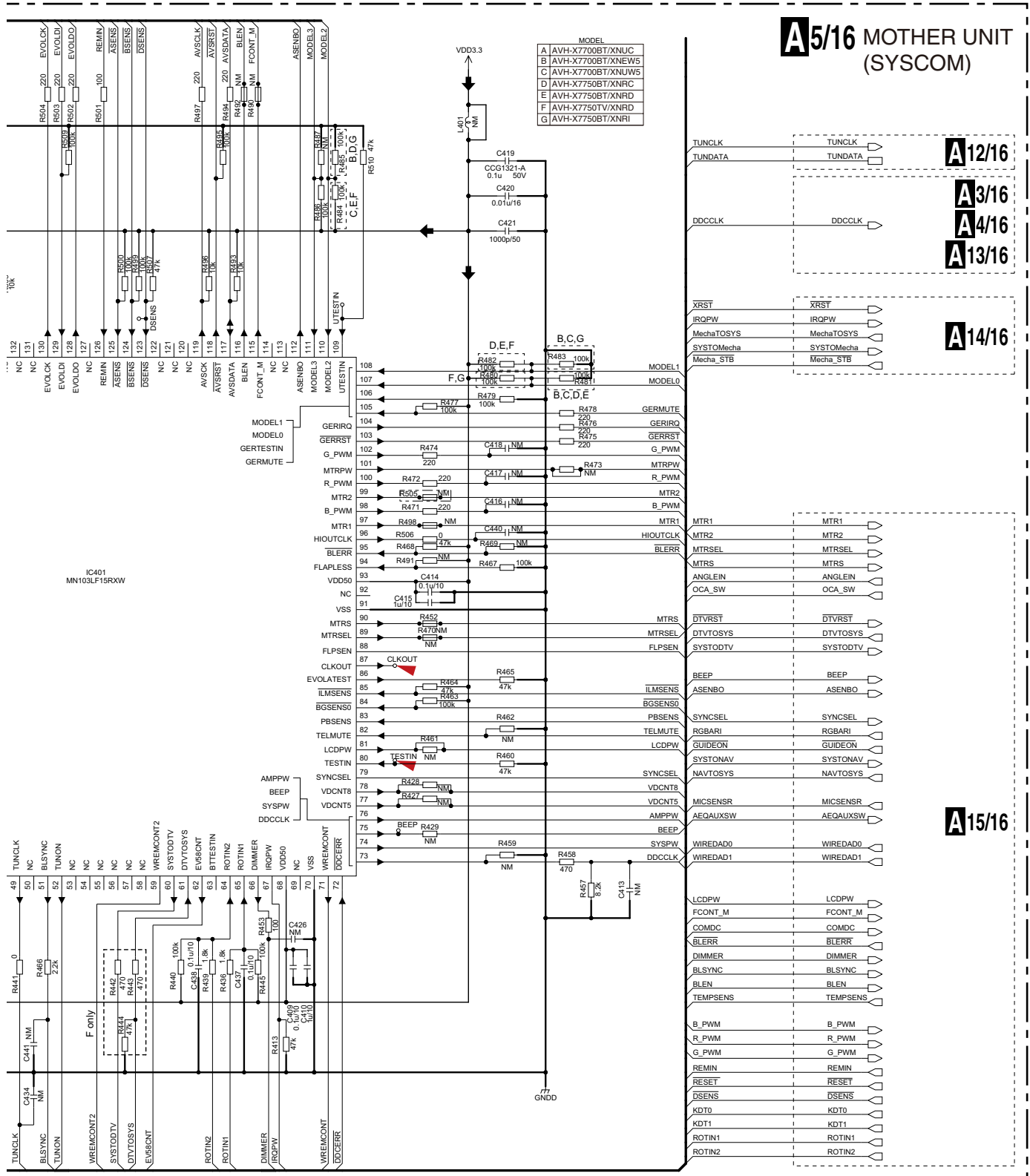
B

C

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E

F



A5/16 MOTHER UNIT (SYSCOM)

A12/16

A3/16

A4/16

A13/16

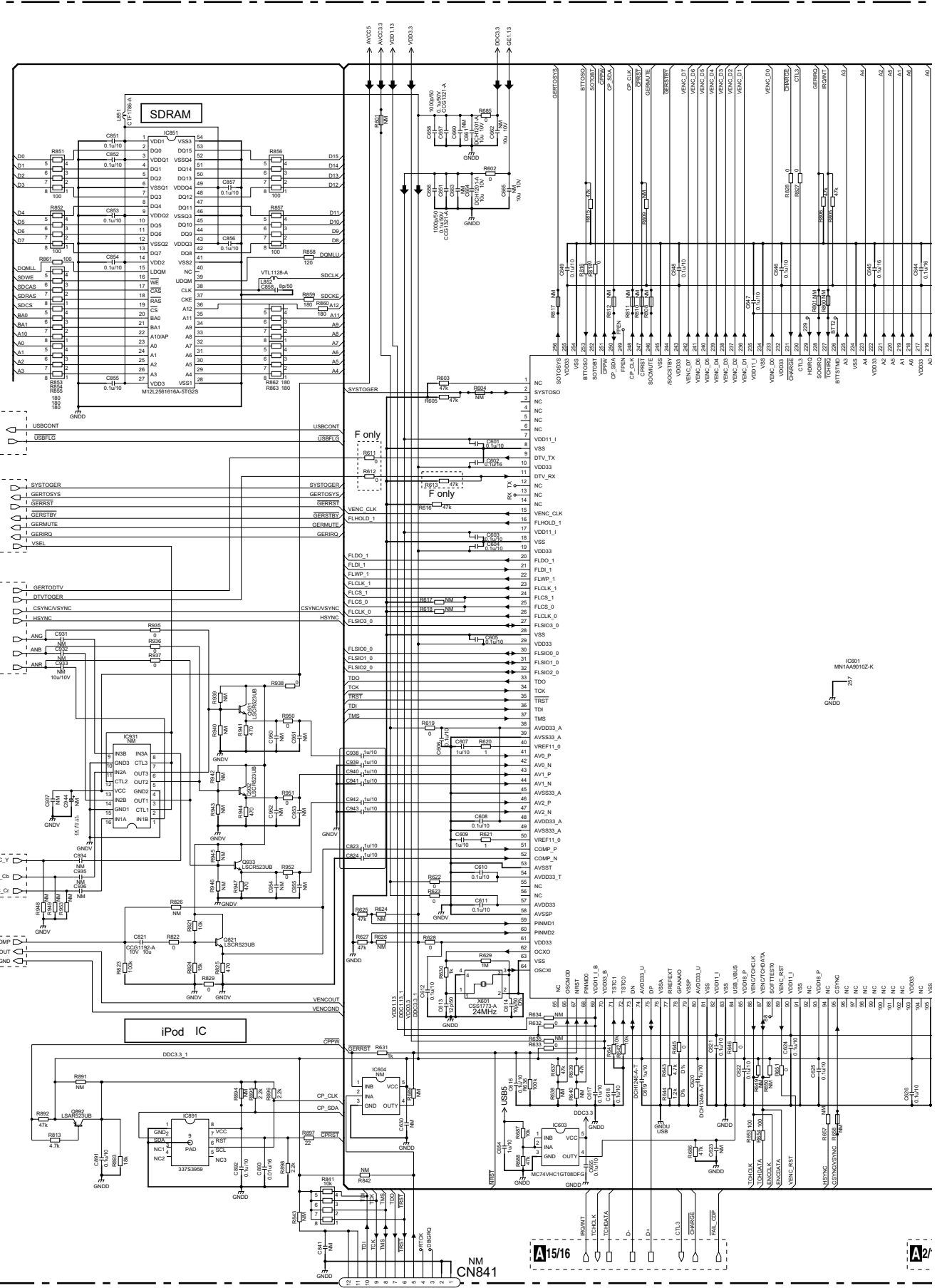
A14/16

A15/16

Ref.401-600

10.6 MOTHER UNIT (GERDA) (1/2 scale)

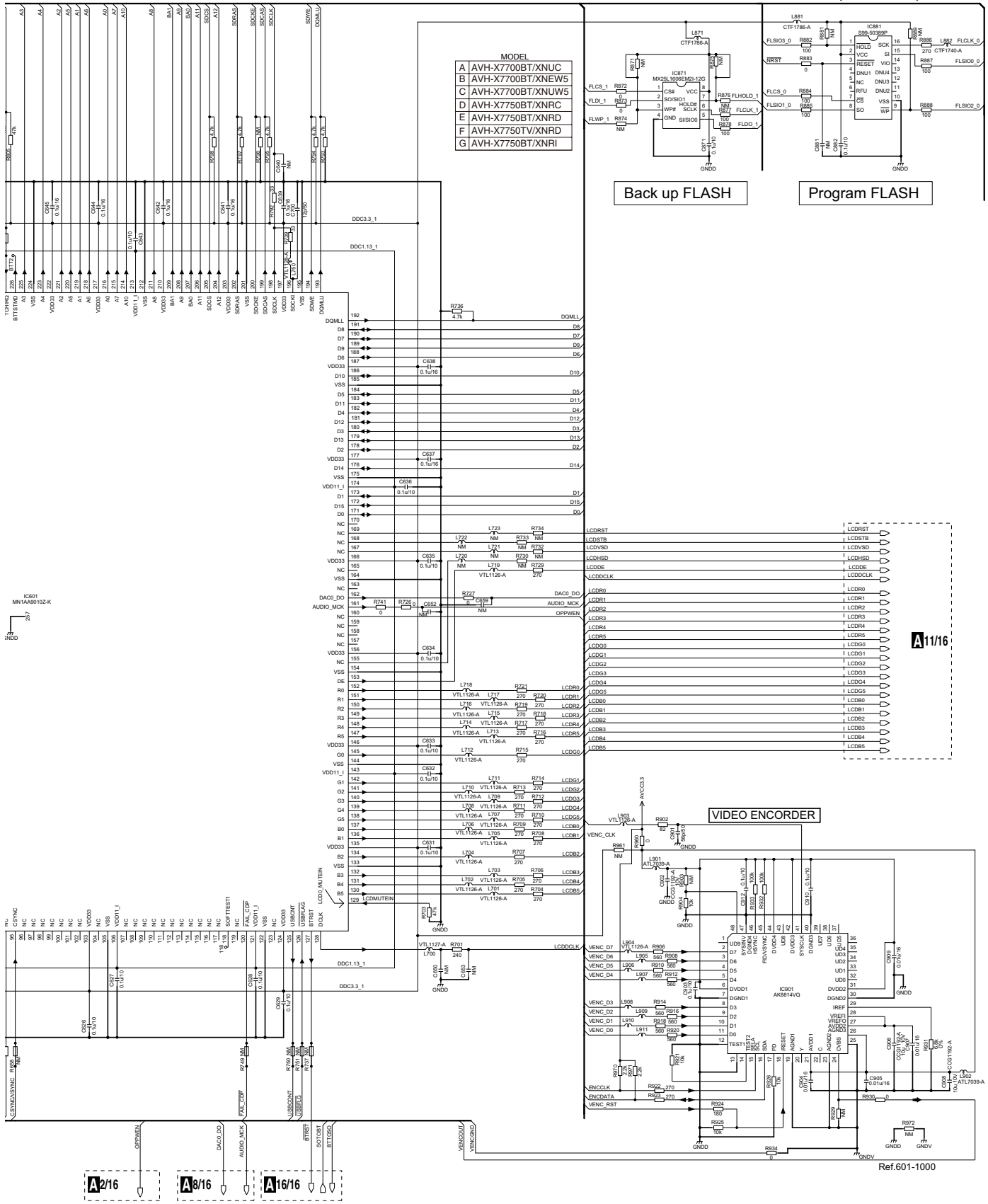
A
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A6/16

AVH-X7700BT/XNUC

A/16 MOTHER UNIT (GERDA)



A/2/16

A/8/16

A/16/16

A/16

10.7 MOTHER UNIT (AVSEL)

A

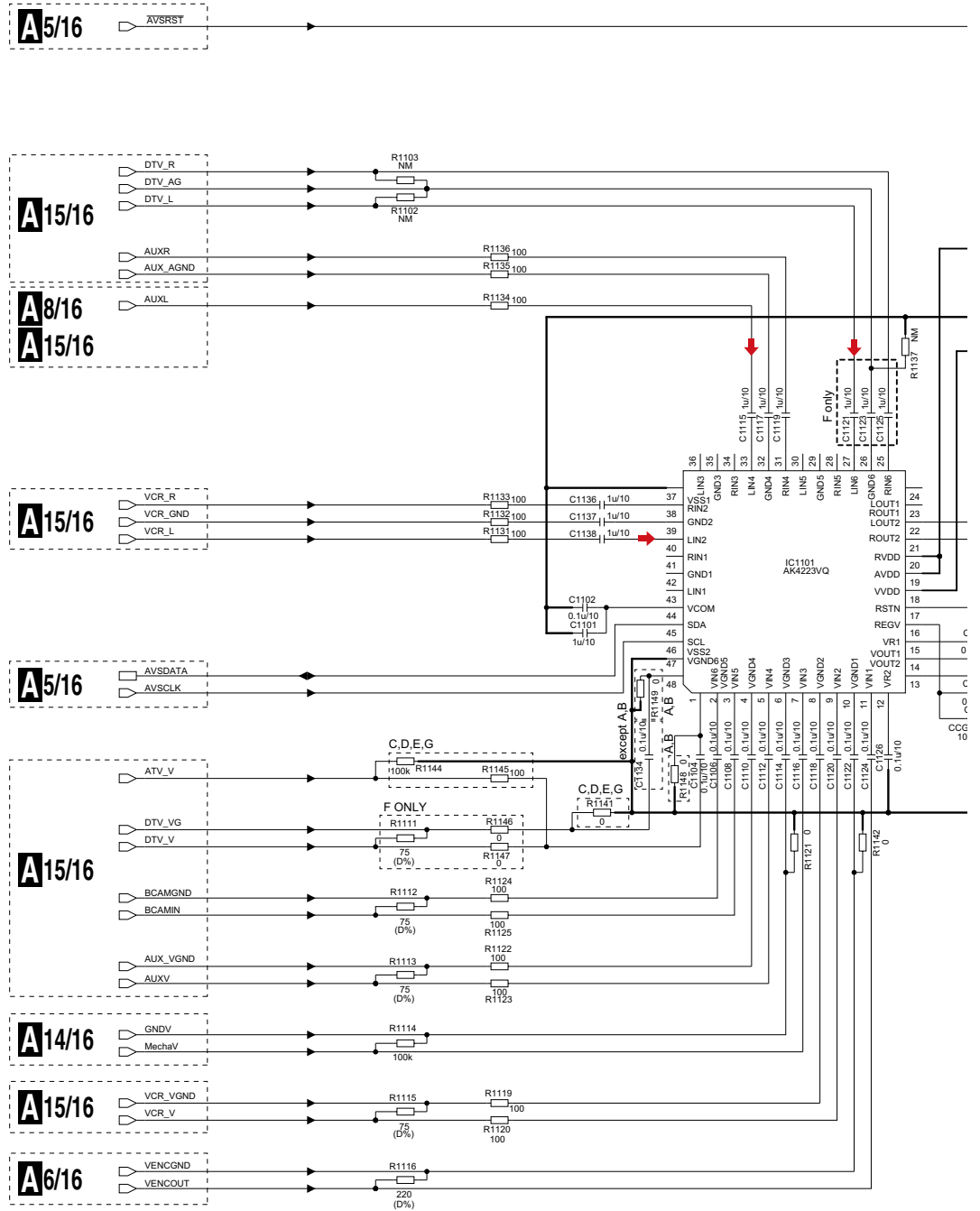
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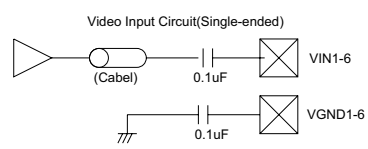
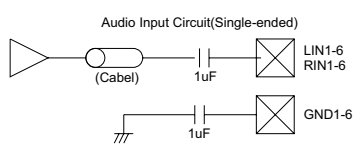
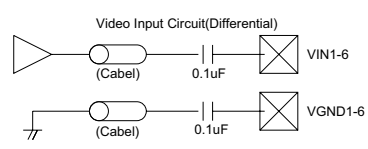
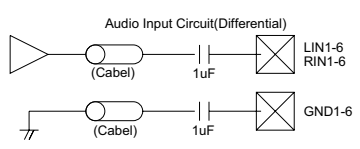
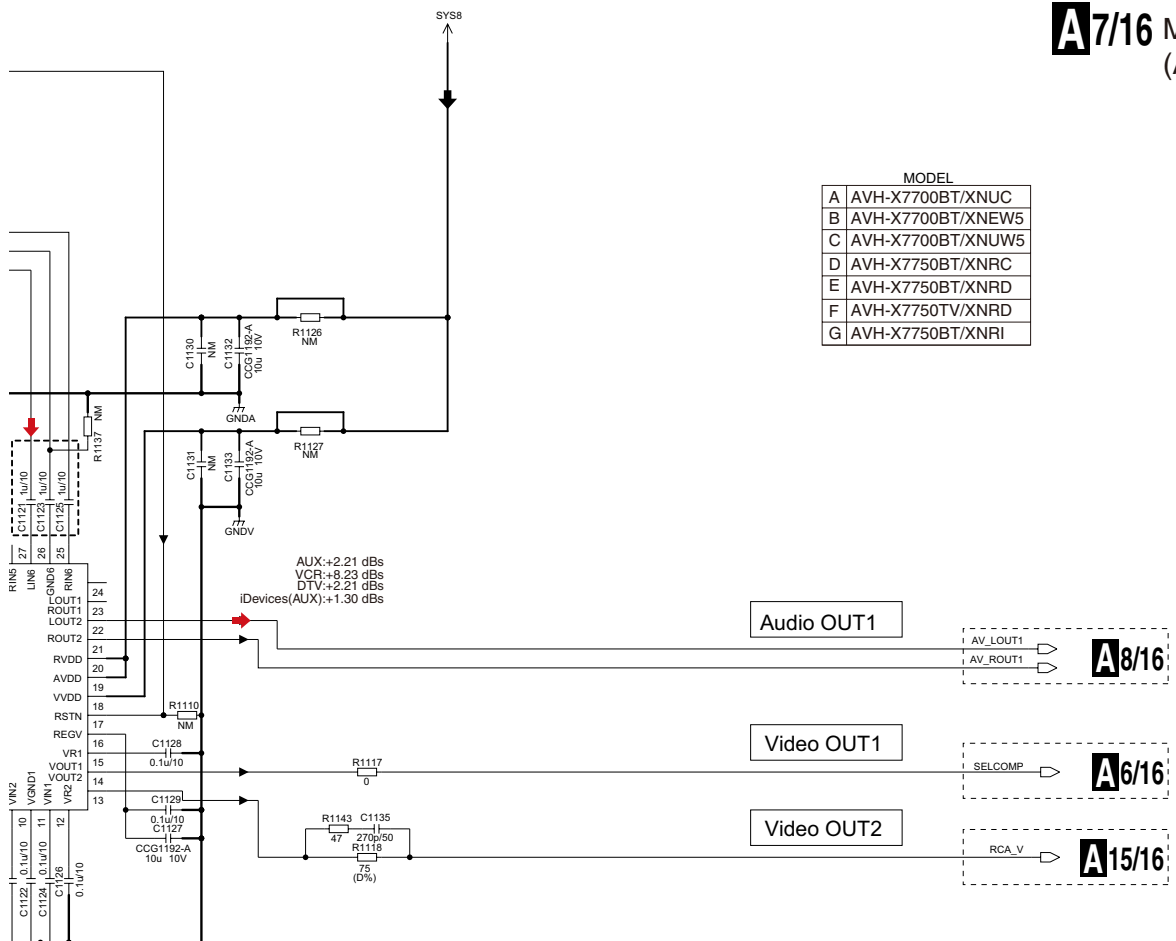
F



A7/16 MOTHER UNIT (AVSEL)

MODEL

A	AVH-X7700BT/XNUC
B	AVH-X7700BT/XNEW5
C	AVH-X7700BT/XNUW5
D	AVH-X7750BT/XNRC
E	AVH-X7750BT/XNRD
F	AVH-X7750TV/XNRD
G	AVH-X7750BT/XNRI



Ref.1101-1150

10.8 MOTHER UNIT (OPAL)

A

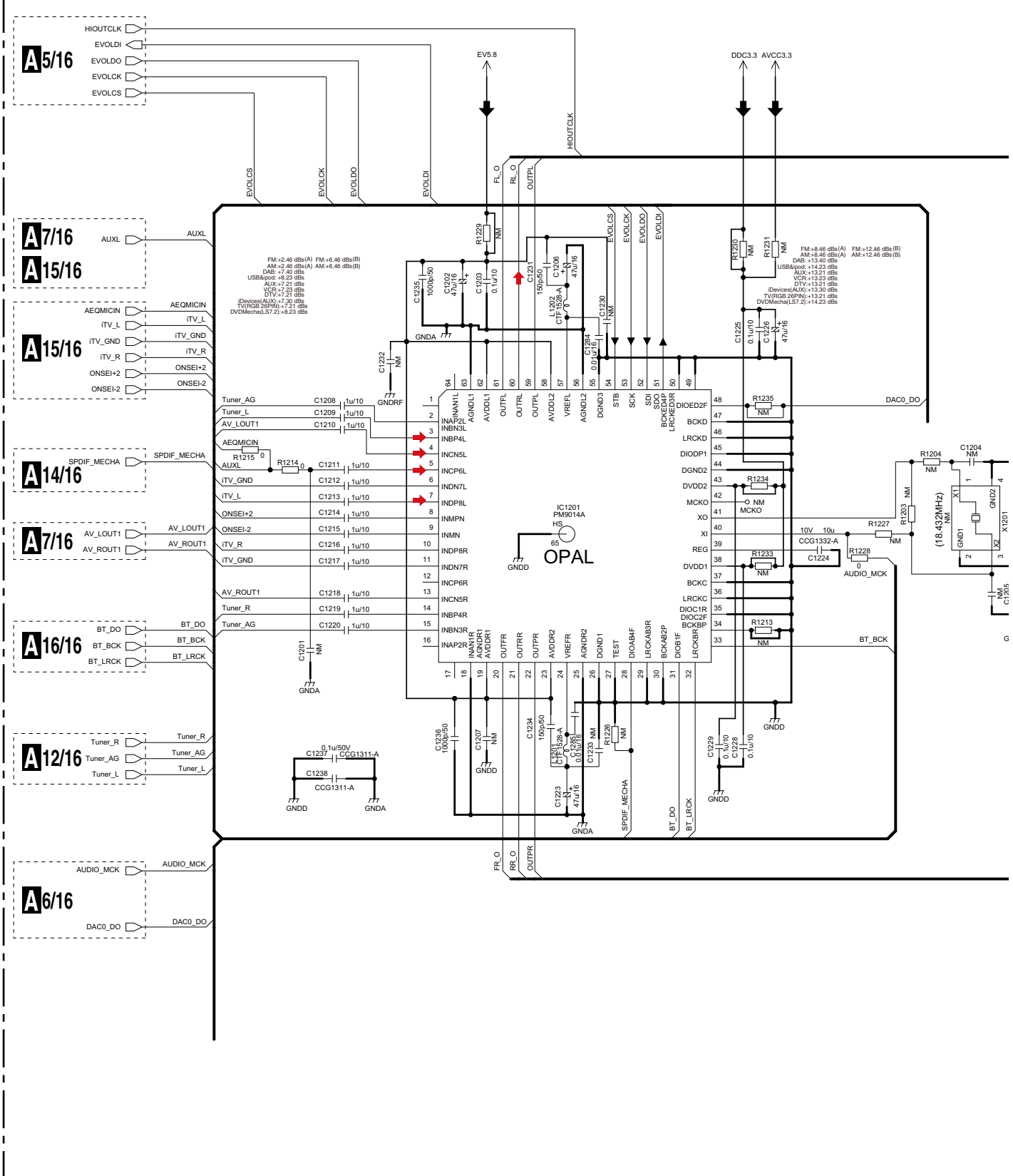
B

C

D

E

F

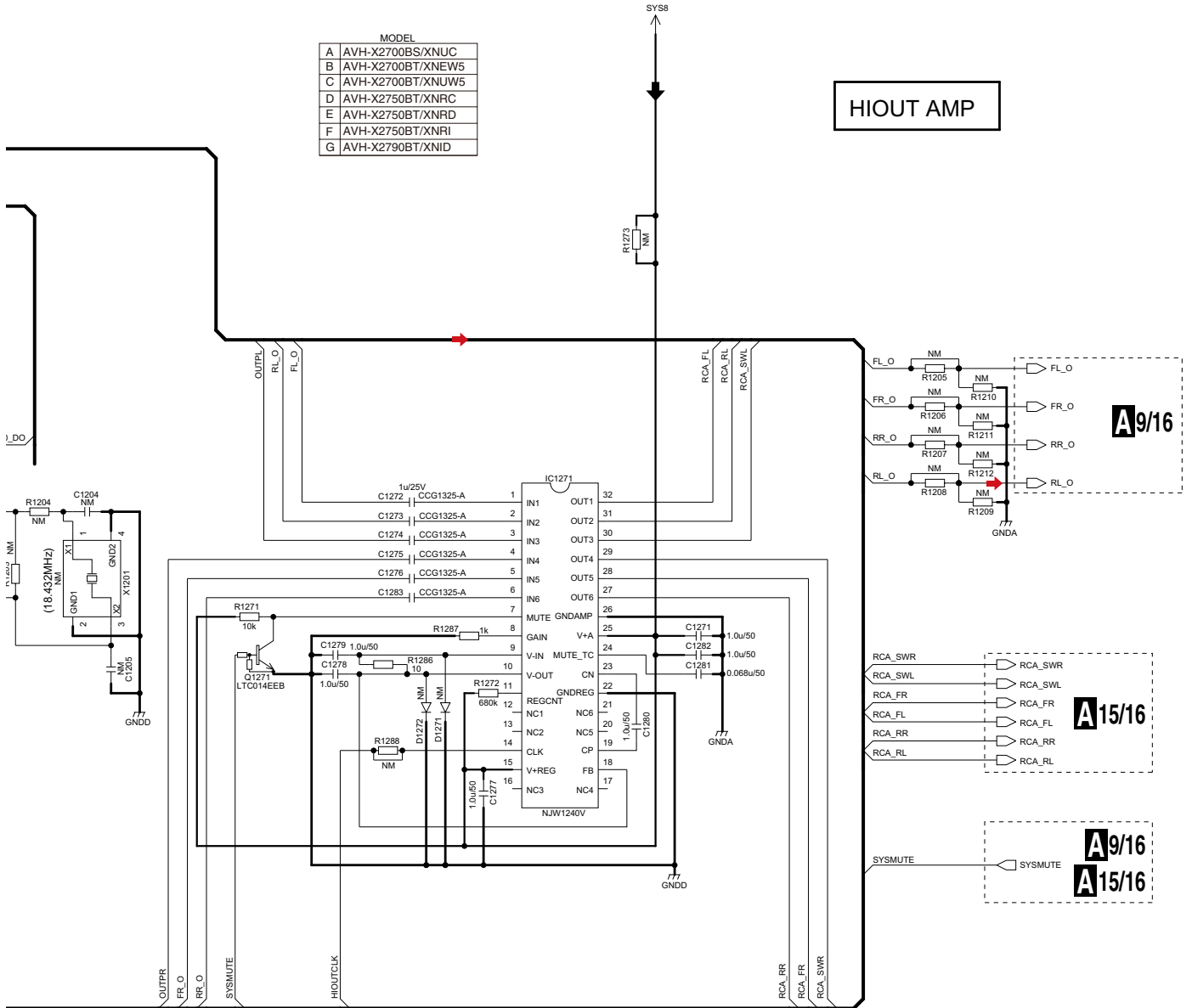


A 8/16

A8/16 MOTHER UNIT (OPAL)

MODEL	
A	AVH-X2700BS/XNUC
B	AVH-X2700BT/XNEW5
C	AVH-X2700BT/XNUW5
D	AVH-X2750BT/XNRC
E	AVH-X2750BT/XNRD
F	AVH-X2750BT/XNFI
G	AVH-X2790BT/XNID

HIOUT AMP



Ref.1201-1300
 Ref.1201-1270
 HIOUTAMP
 Ref.1271-1300

A9/16

A15/16

A9/16

A15/16

A8/16

10.9 MOTHER UNIT (PWR-IC)

1

2

3

4

A

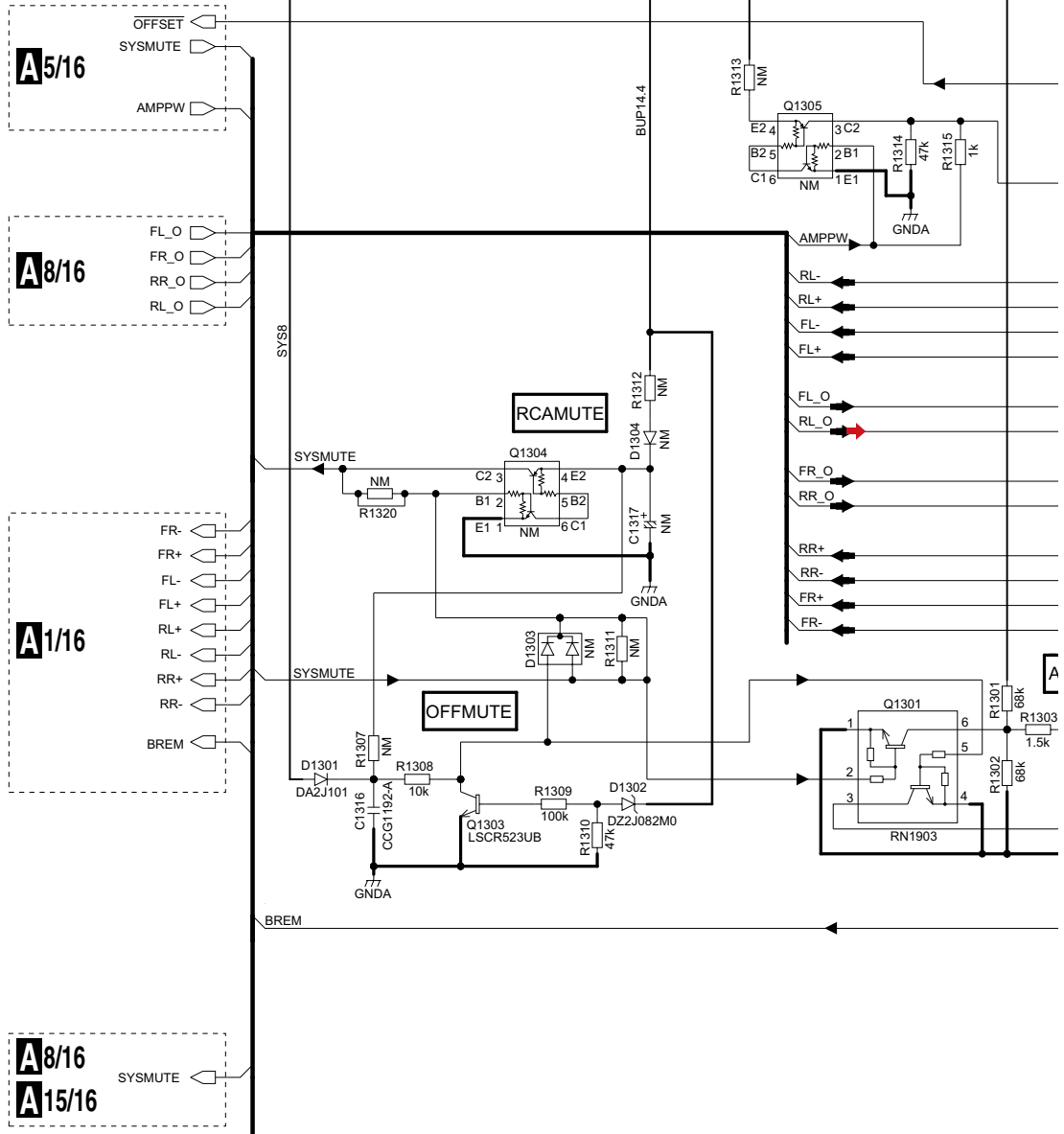
B

C

D

E

F



A5/16

A8/16

A1/16

A8/16

A15/16

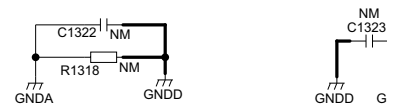
A9/16

1

2

3

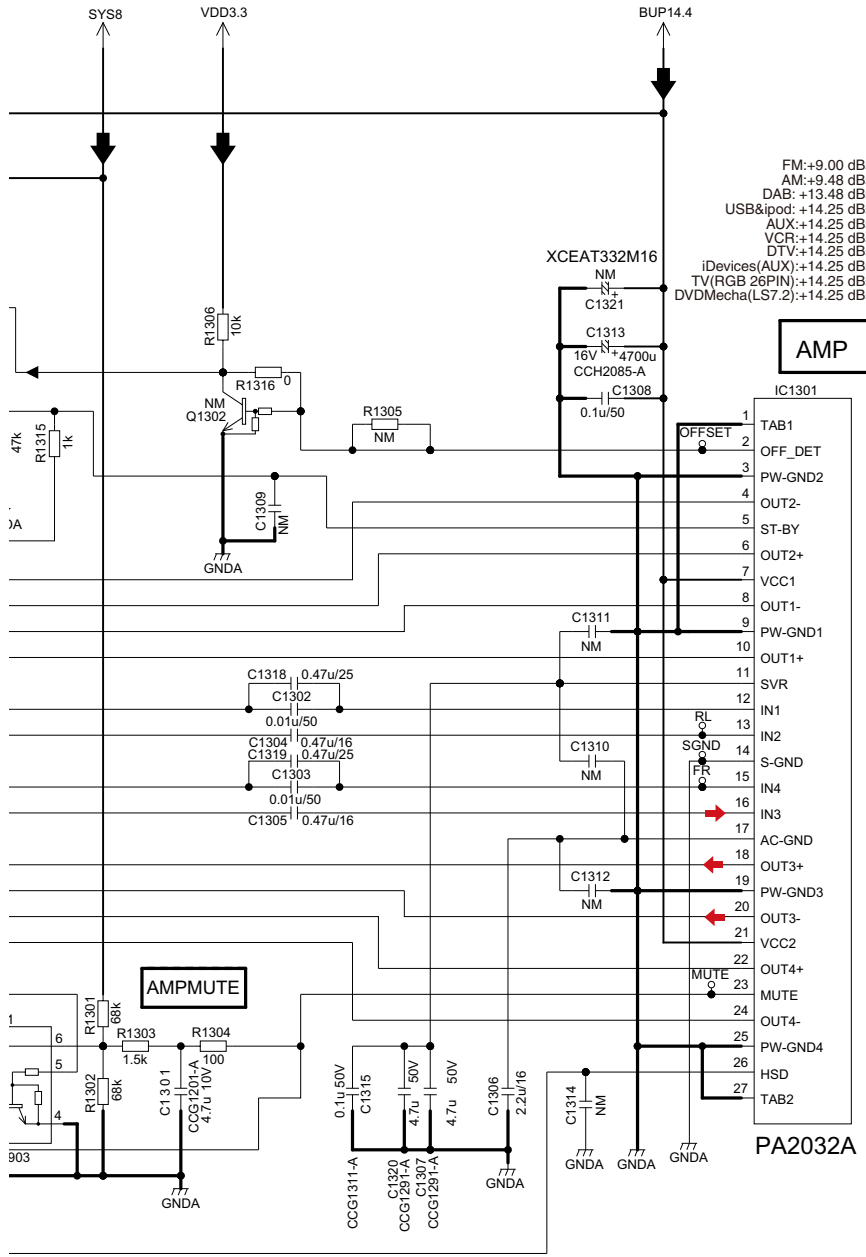
4



A9/16 MOTHER UNIT (PWR IC)

MODEL	
A	AVH-X2700BS/XNUC
B	AVH-X2700BT/XNEW5
C	AVH-X2700BT/XNUW5
D	AVH-X2750BT/XNRC
E	AVH-X2750BT/XNRD
F	AVH-X2750BT/XNRI
G	AVH-X2790BT/XNID

- FM:+9.00 dBs (A)
- AM:+9.48 dBs (A)
- DAB: +13.48 dBs
- USB&ipod: +14.25 dBs
- AUX:+14.25 dBs
- VCR:+14.25 dBs
- DTV:+14.25 dBs
- iDevices(AUX):+14.25 dBs
- TV(RGB 26PIN):+14.25 dBs
- DVDMecha(LS7.2):+14.25 dBs
- FM:+13.00 dBs (B)
- AM:+13.48 dBs (B)



AMP

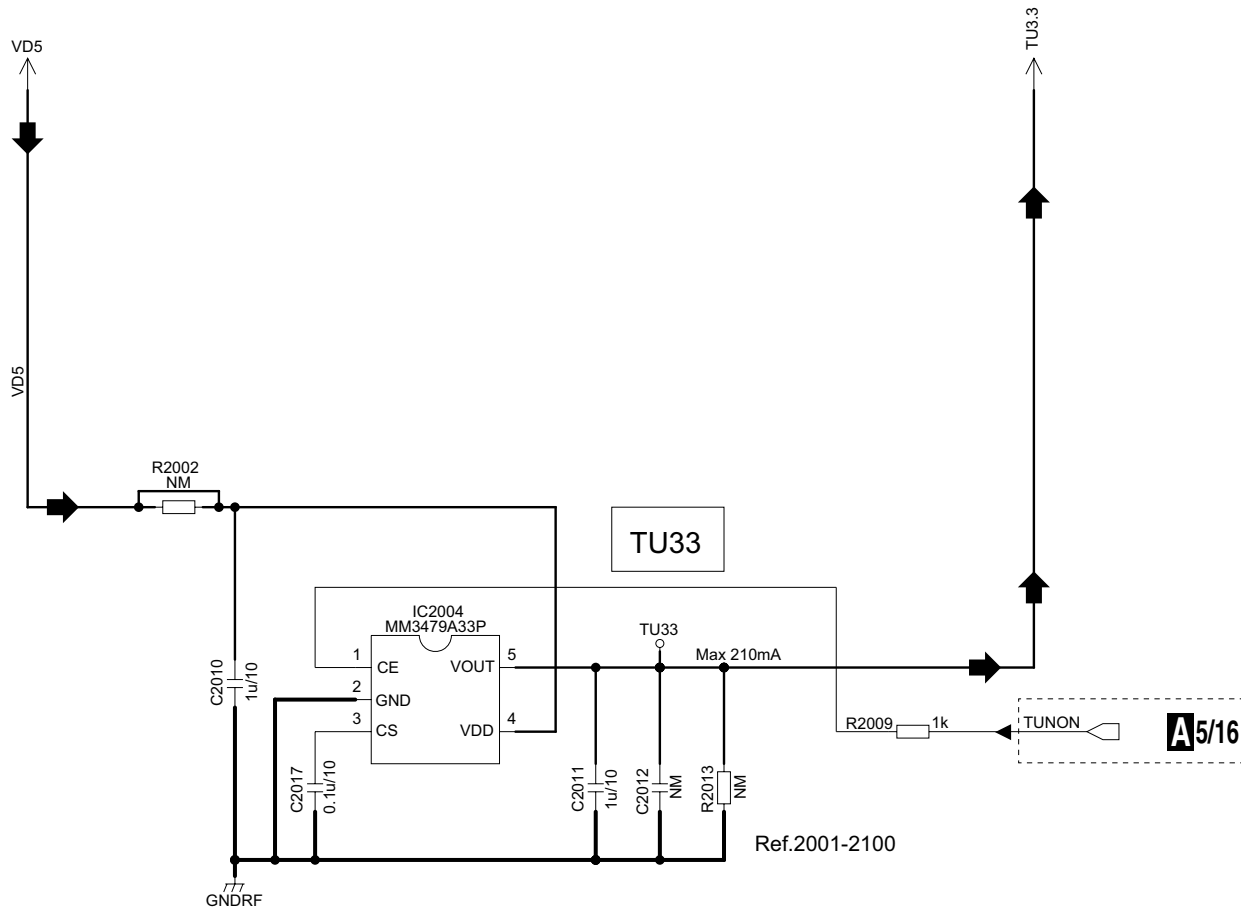
AMPMUTE

PA2032A

Ref.1301-1400

10.10 MOTHER UNIT (PWR TUN)

A10/16 MOTHER UNIT (PWR TUN)



A5/16

A10/16

A

B

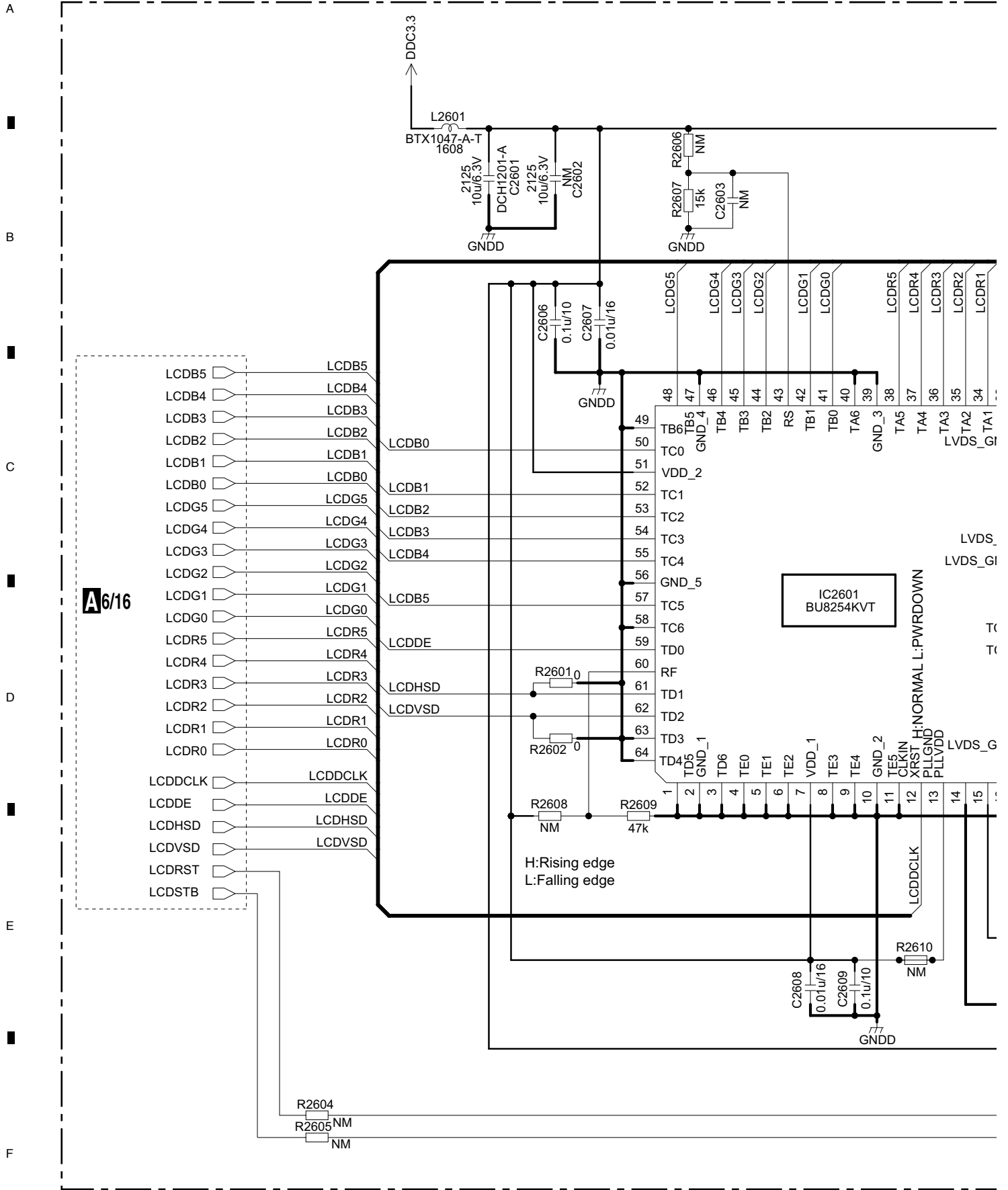
C

D

E

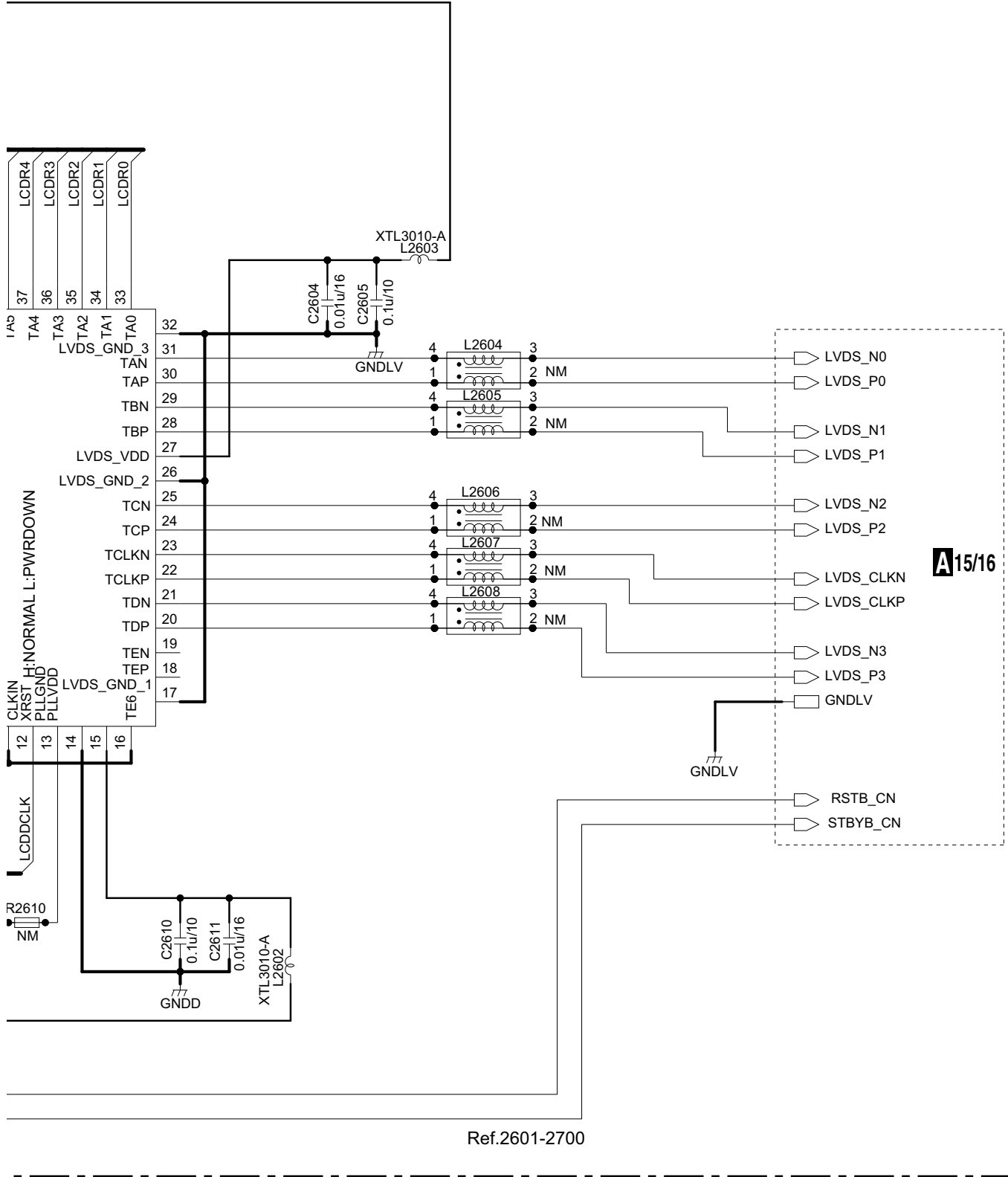
F

10.11 MOTHER UNIT (LVDS TX)



A11/16

A11/16 MOTHER UNIT (LVDS TX)

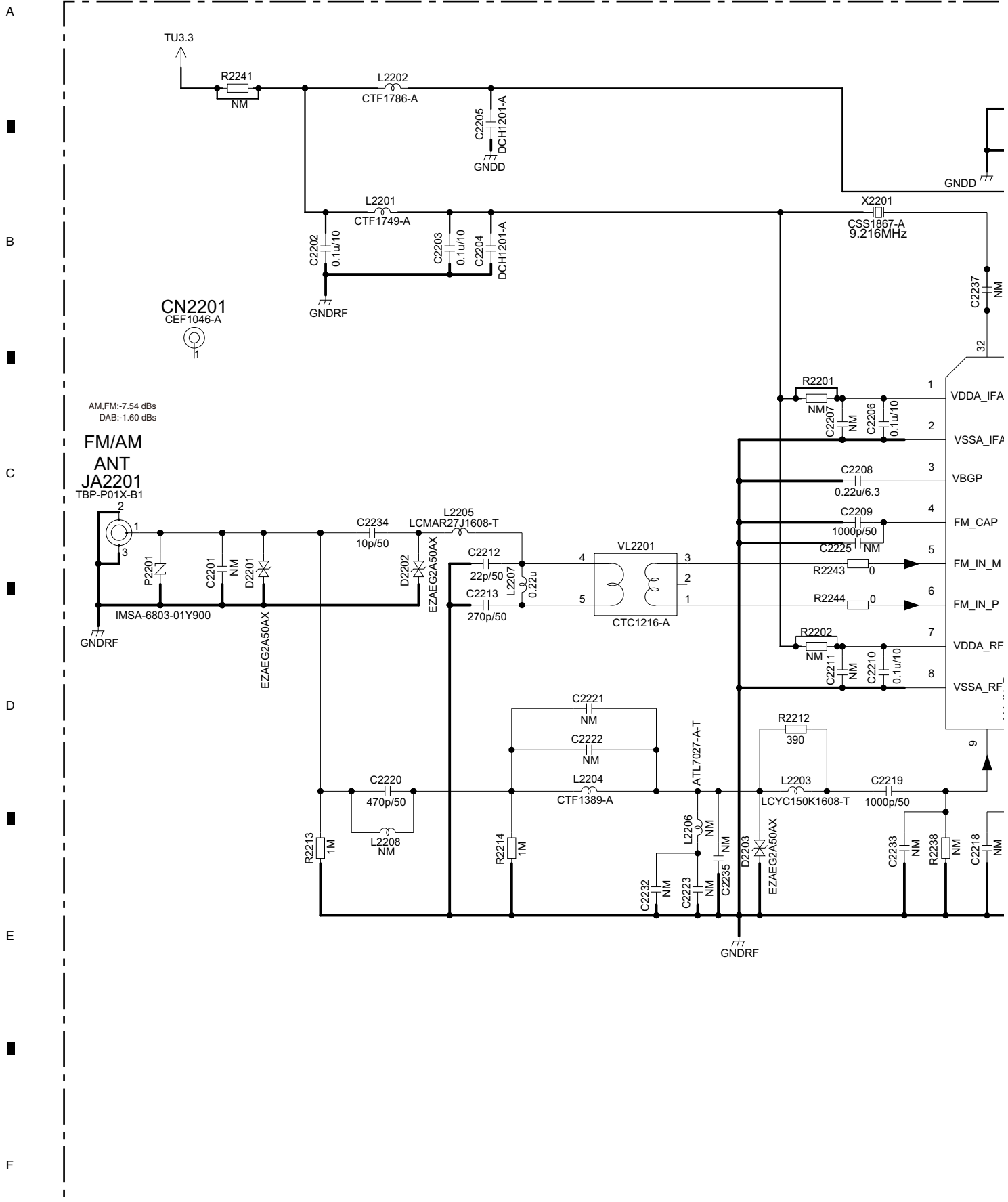


Ref.2601-2700

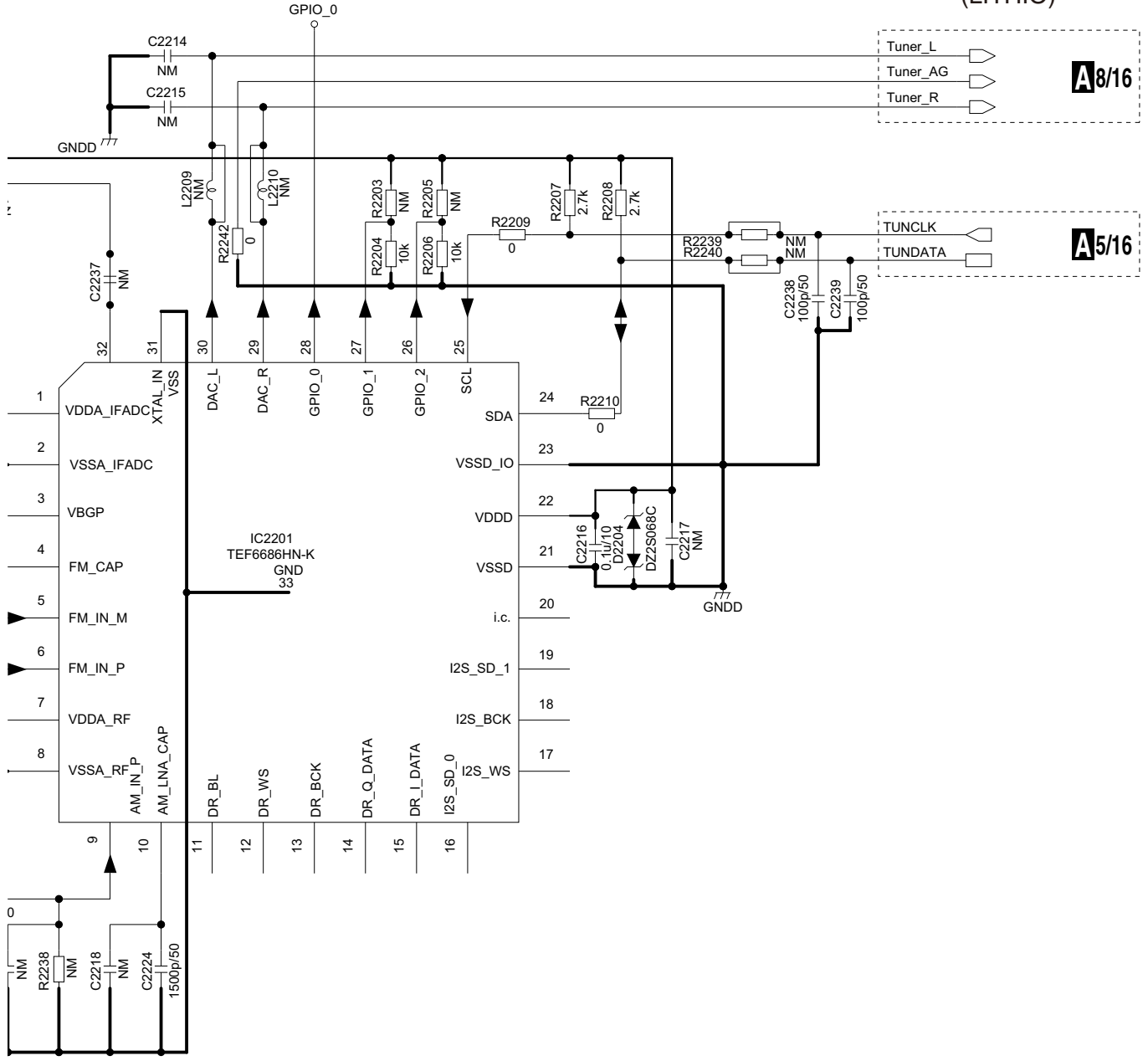
A15/16

A11/16

10.12 MOTHER UNIT (LITHIO)



A12/16 MOTHER UNIT (LITHIO)



A8/16

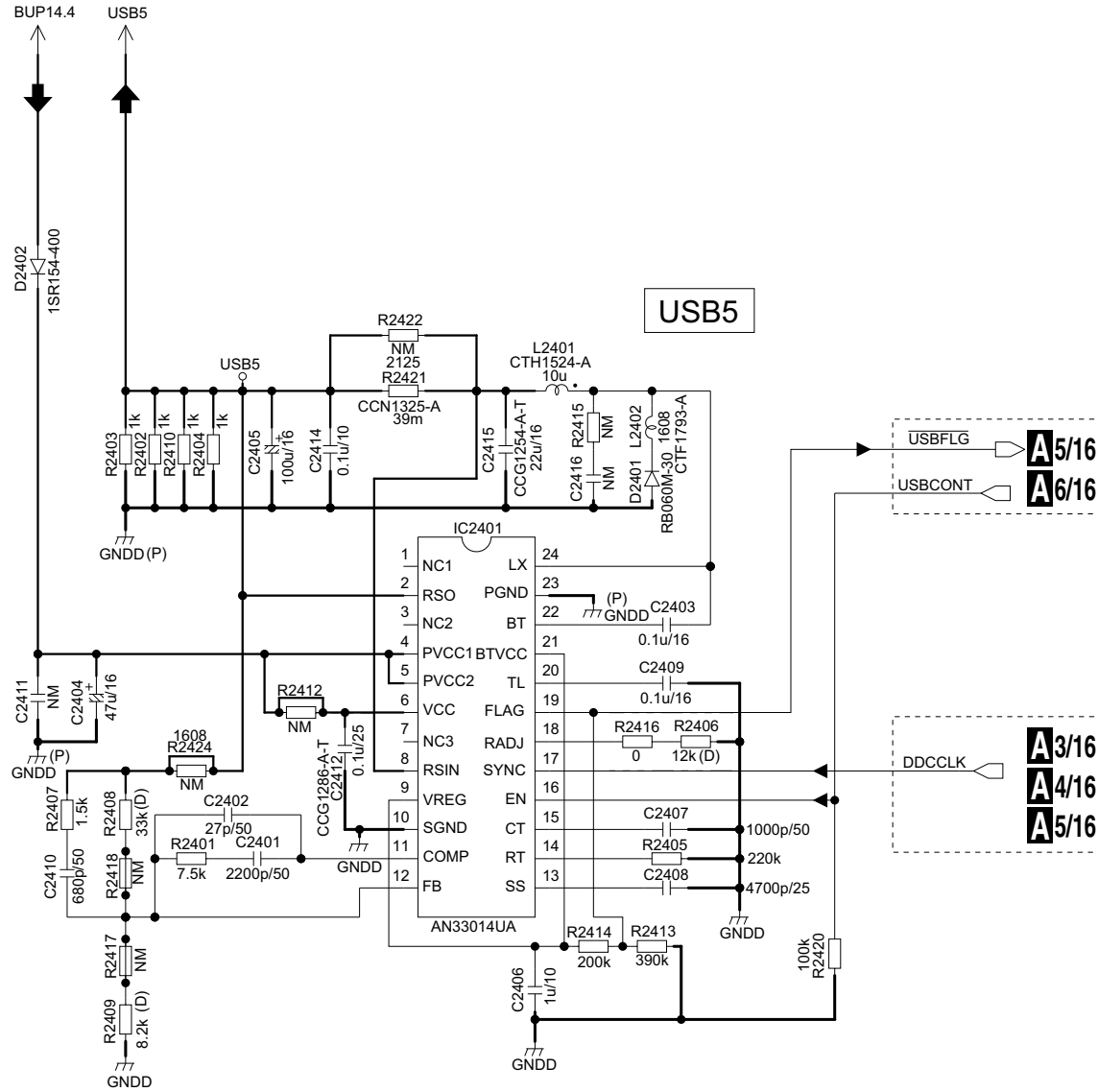
A5/16

Ref.2201-2300

A12/16

10.13 MOTHER UNIT (PWR USB)

A13/16 MOTHER UNIT (PWR USB)



Ref.2401-2500

A

B

C

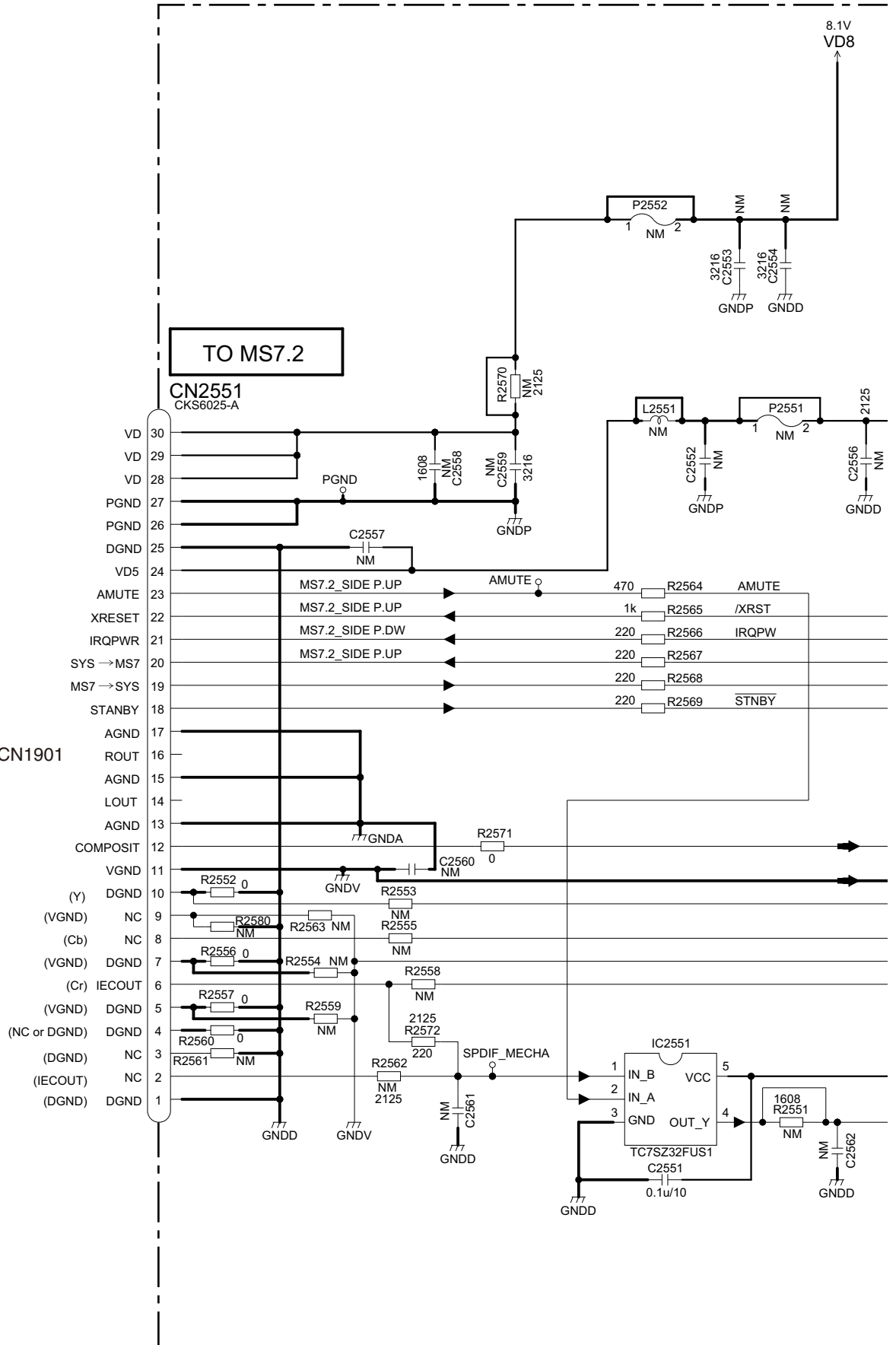
D

E

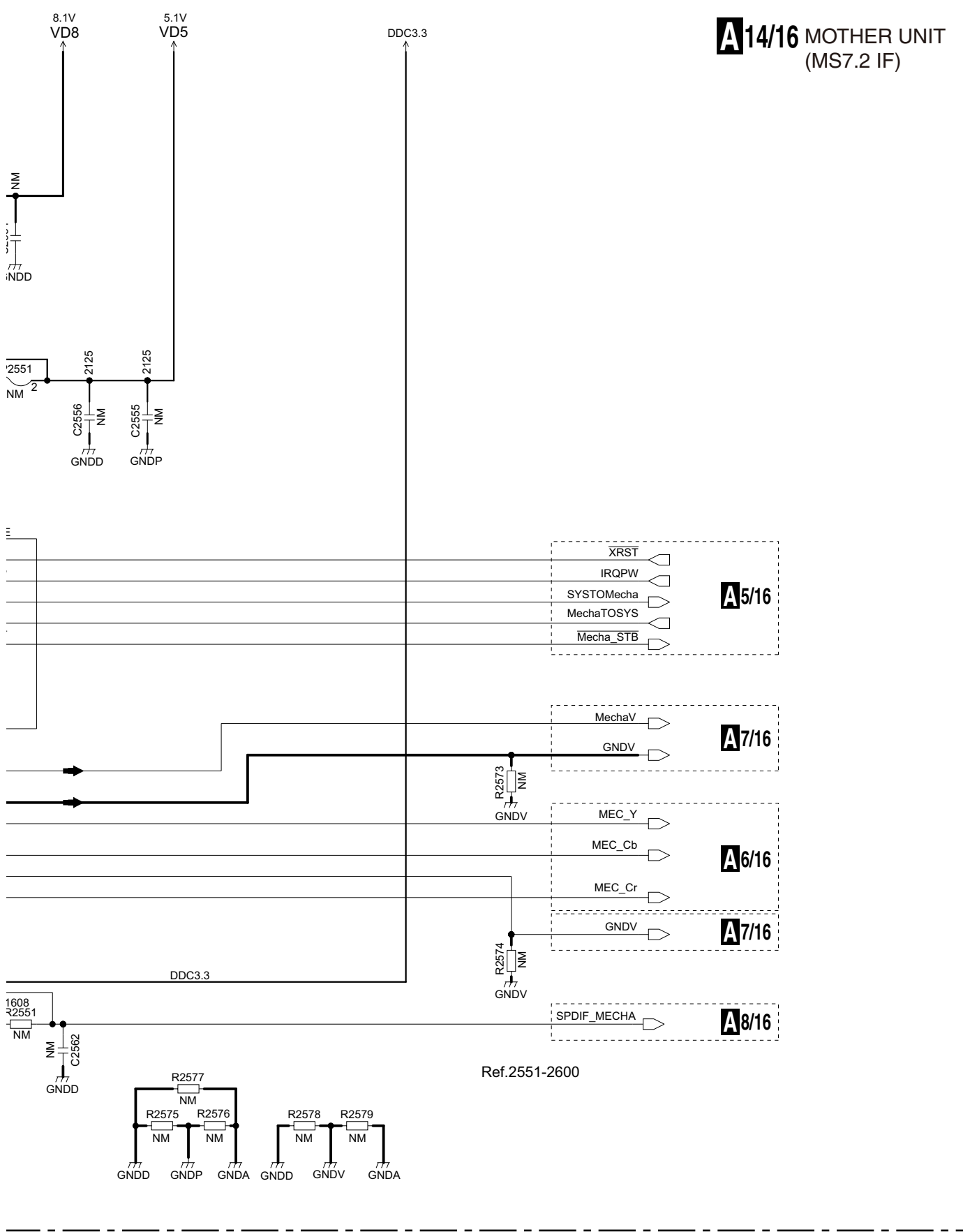
F

10.14 MOTHER UNIT (MS7.2 IF)

A
B
C
D
E
F



A14/16 MOTHER UNIT (MS7.2 IF)



A

B

C

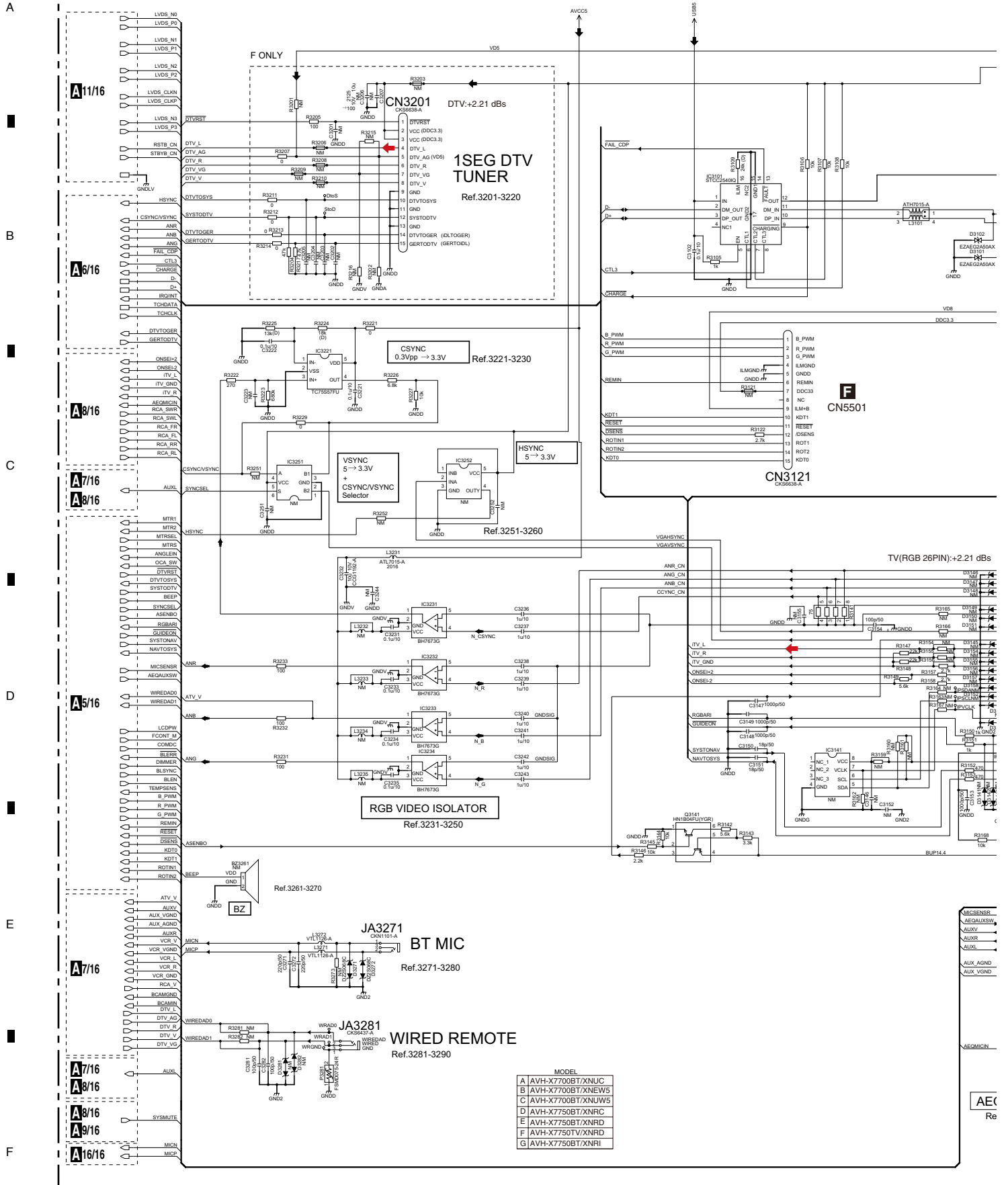
D

E

F

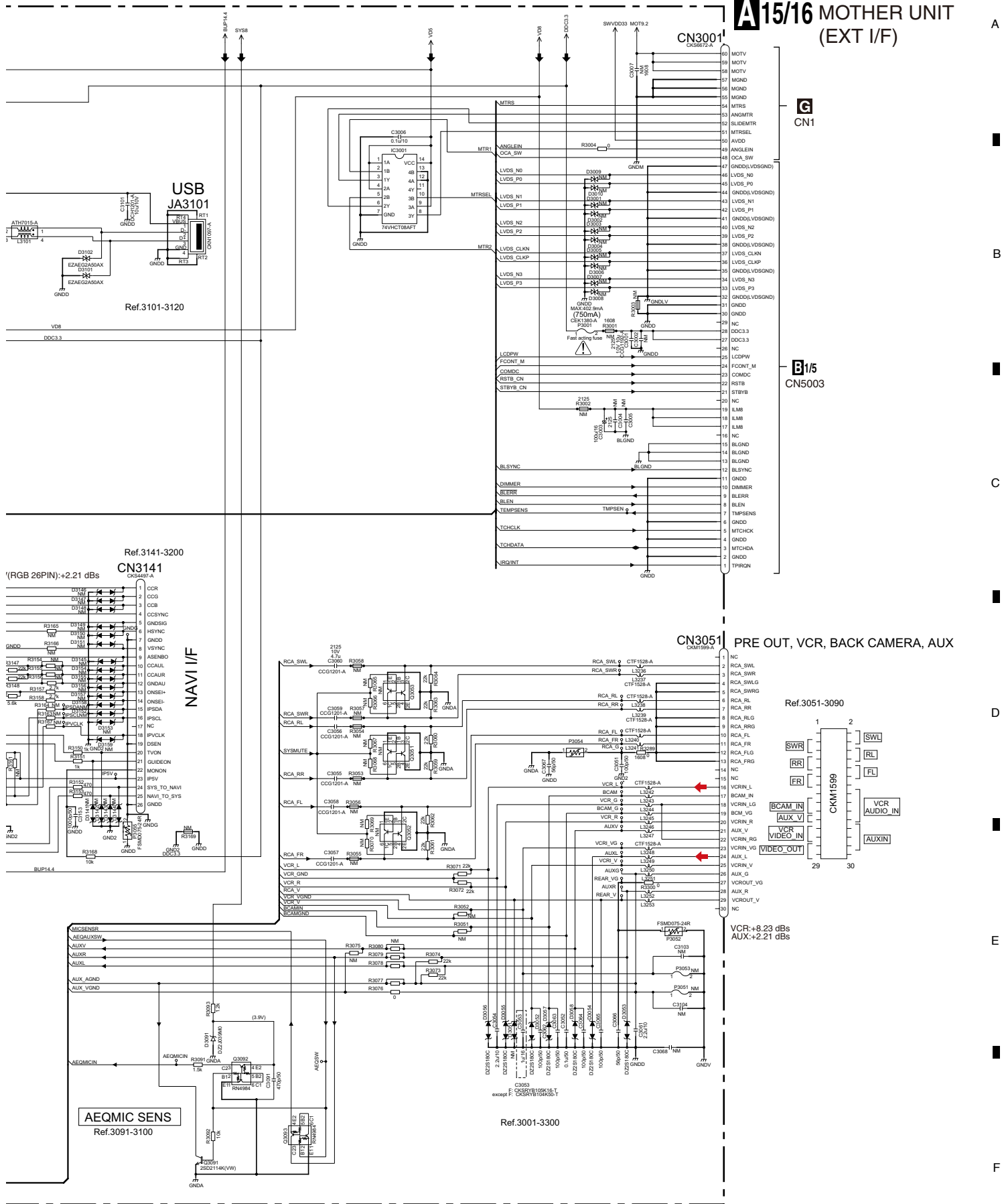
A14/16

10.15 MOTHER UNIT (EXT I/F) (1/2 scale)



MODEL
A AVH-X7700BT/XNUC
B AVH-X7700BT/XNEWS
C AVH-X7700BT/XNUW5
D AVH-X7750BT/XNRC
E AVH-X7750BT/XNRD
F AVH-X7750TV/XNRD
G AVH-X7750BT/XNRI

A15/16 MOTHER UNIT (EXT I/F)



10.16 MOTHER UNIT (BT)

1

2

3

4

A

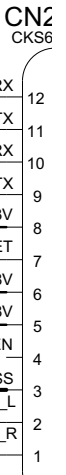
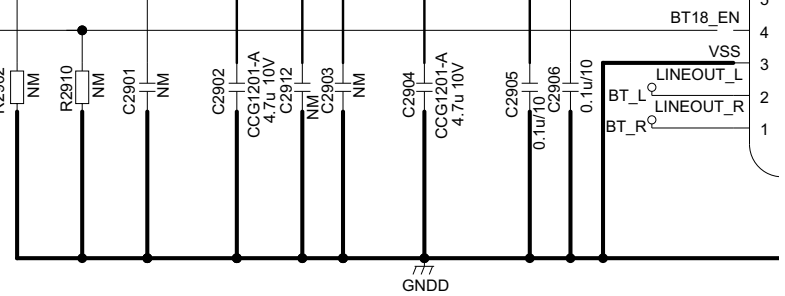
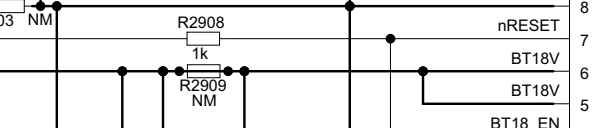
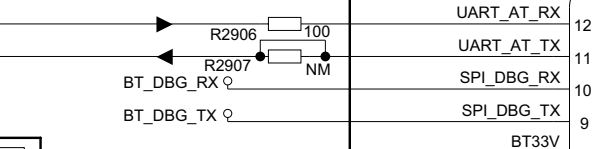
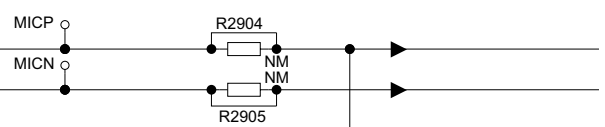
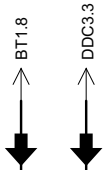
B

C

D

E

F



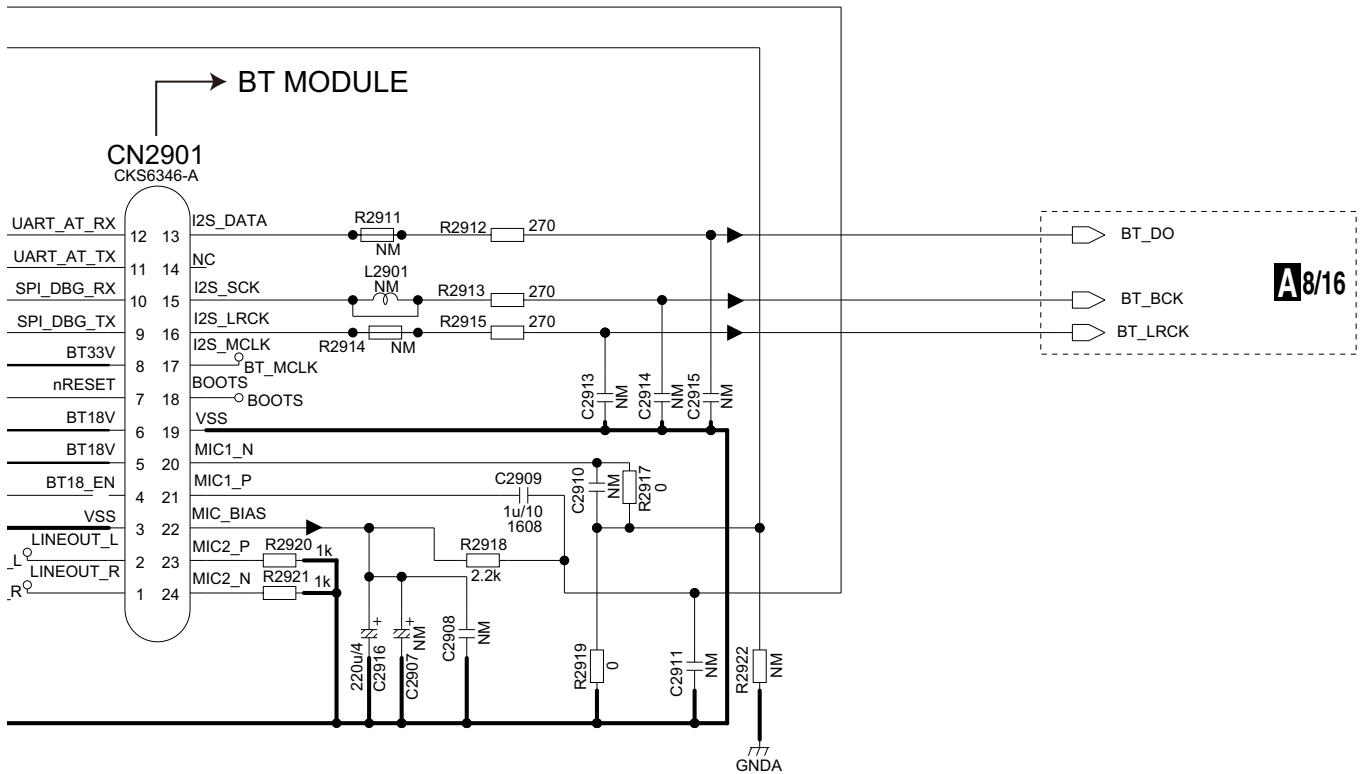
1

2

3

4

A16/16 MOTHER UNIT (BT)



Ref.2901-3000

A8/16

A16/16

10.17 MONITOR UNIT (PCB I/F)

A

B

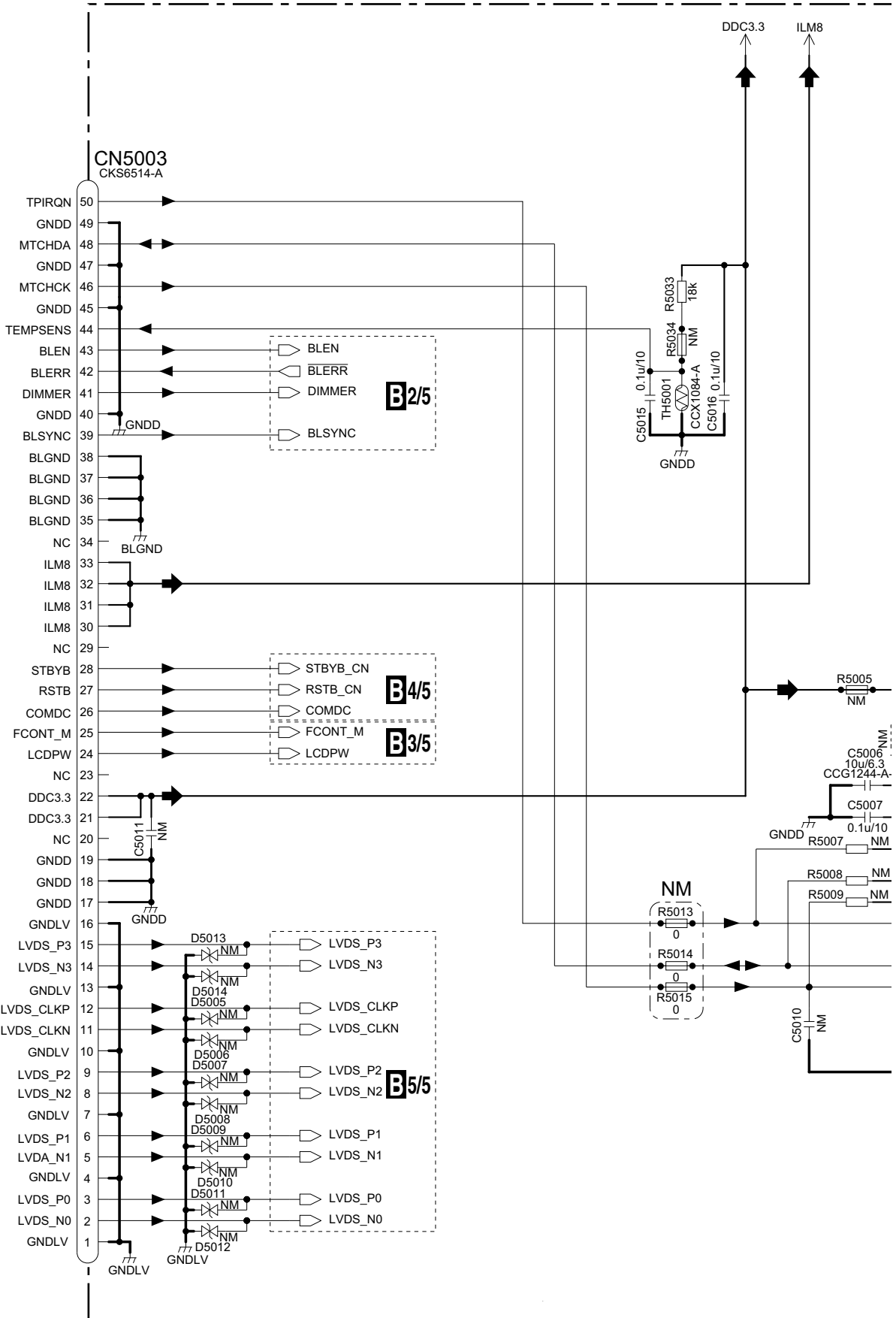
C

D

E

F

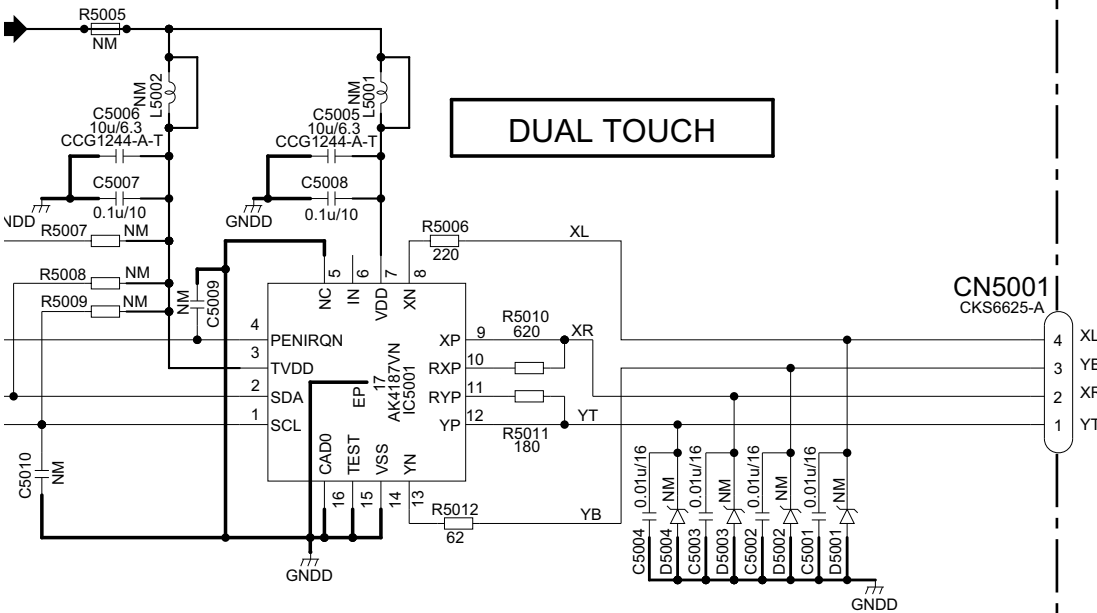
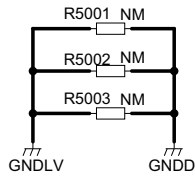
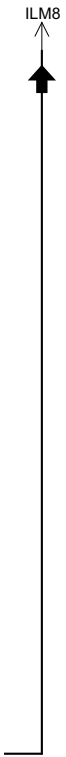
A15/16
CN3001



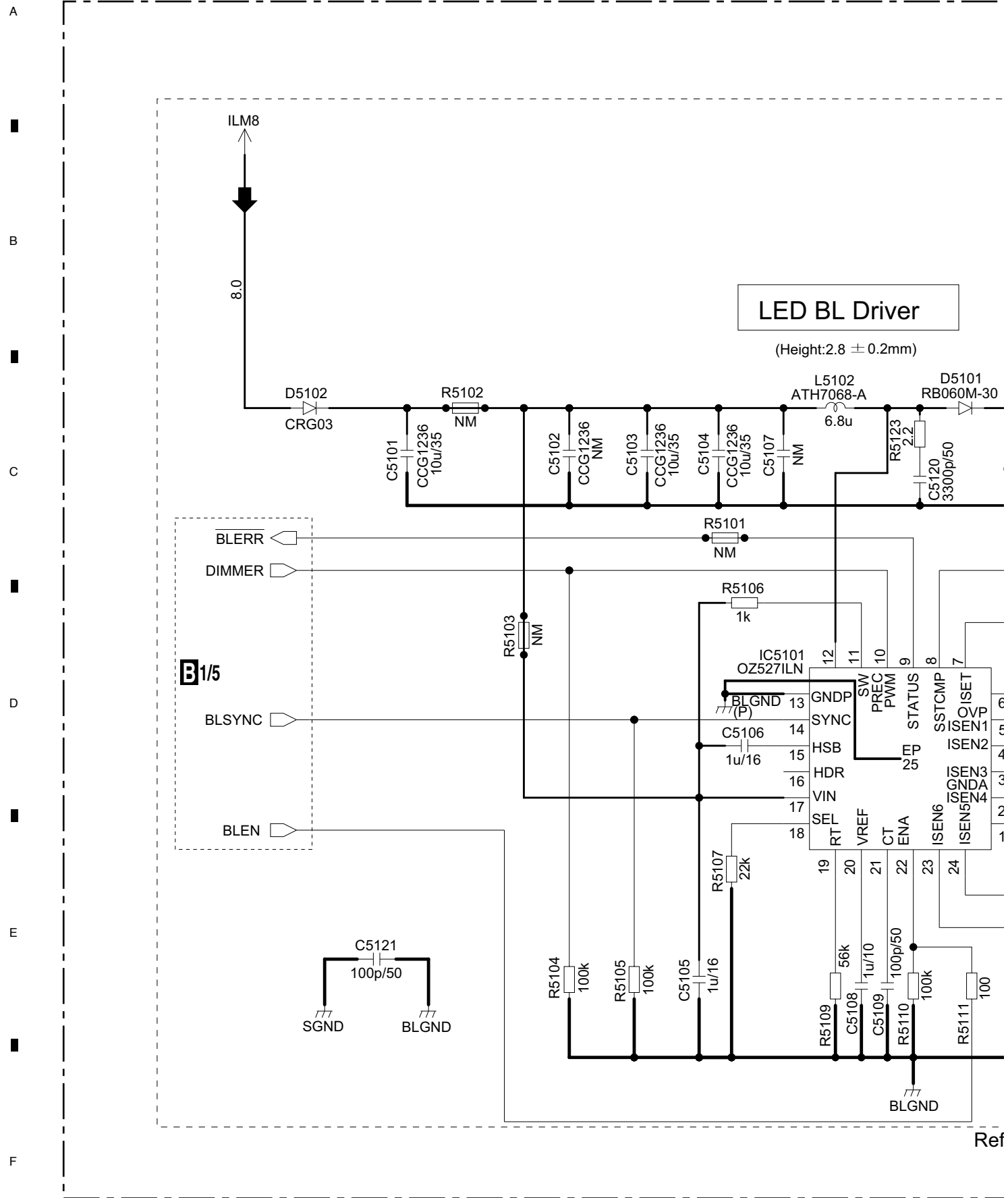
B1/5

AVH-X7700BT/XNUC

B1/5 MONITOR UNIT (PCB I/F)

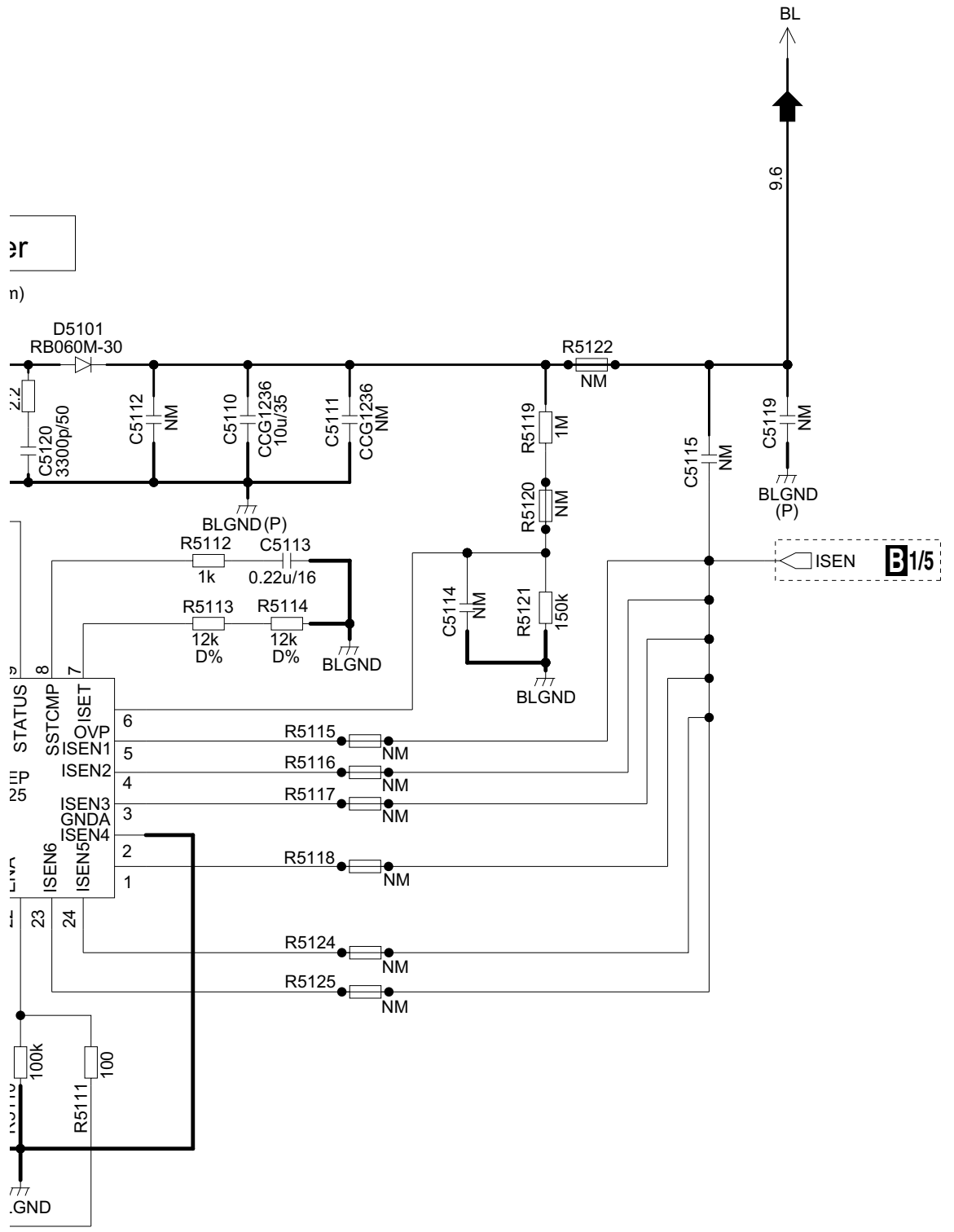


10.18 MONITOR UNIT (S LCD BL)



B2/5

B2/5 MONITOR UNIT (S LCD BL)



n)

8

7

6

5

4

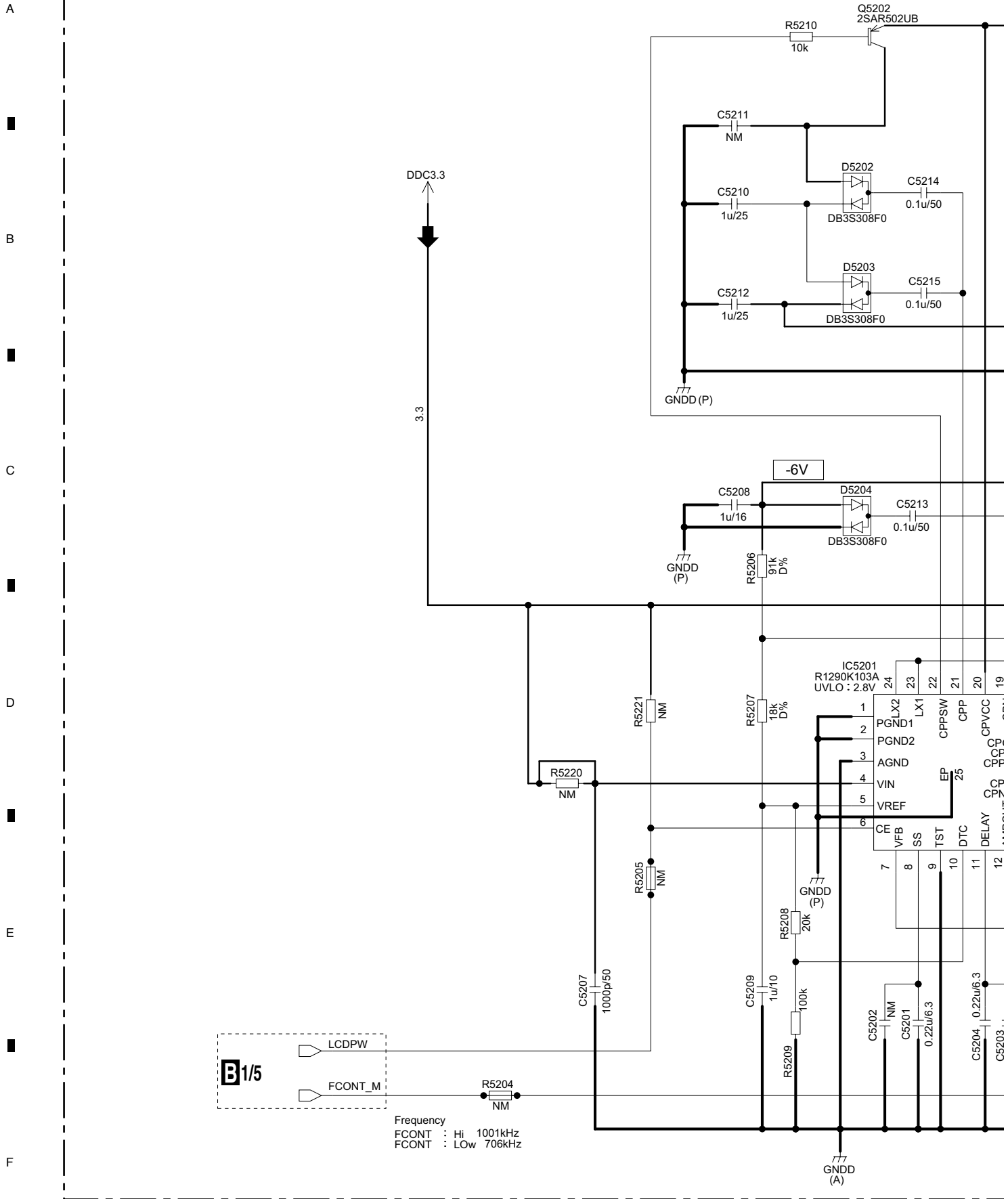
3

2

1

Ref.5101-5200

10.19 MONITOR UNIT (S LCD PW)



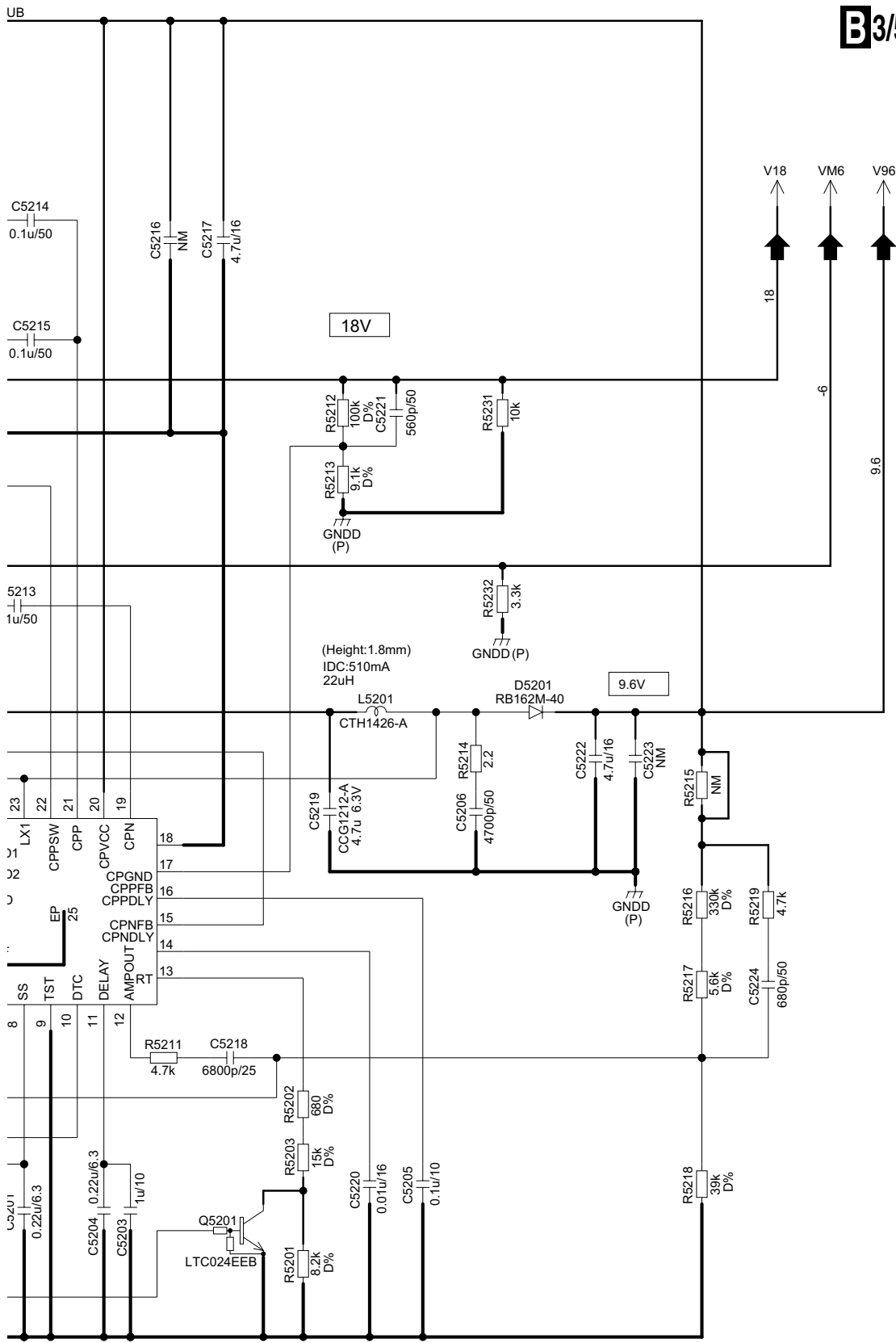
B1/5

LCDPW

FCONT_M

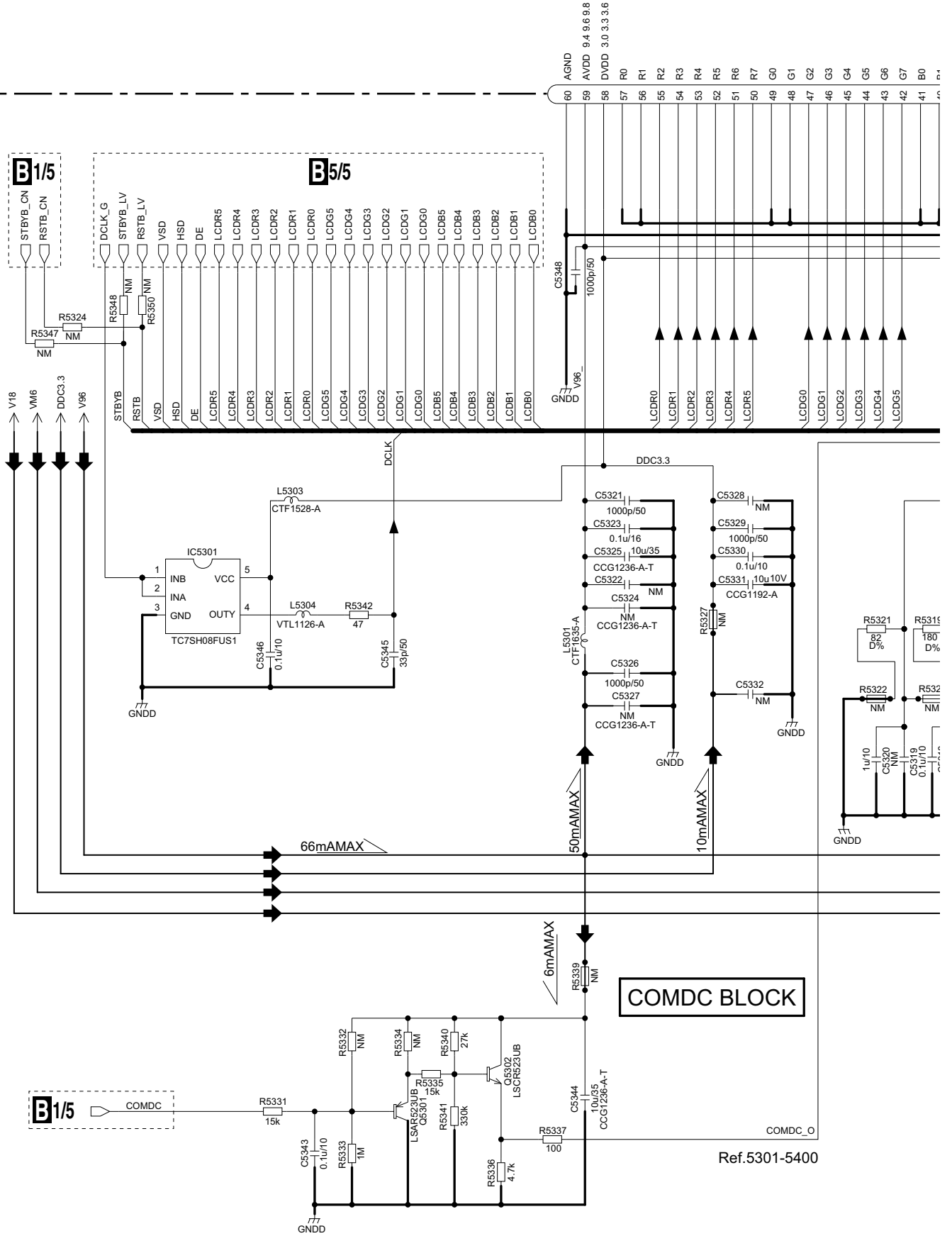
Frequency
 FCONT : Hi 1001kHz
 FCONT : Low 706kHz

B3/5 MONITOR UNIT (S LCD PW)



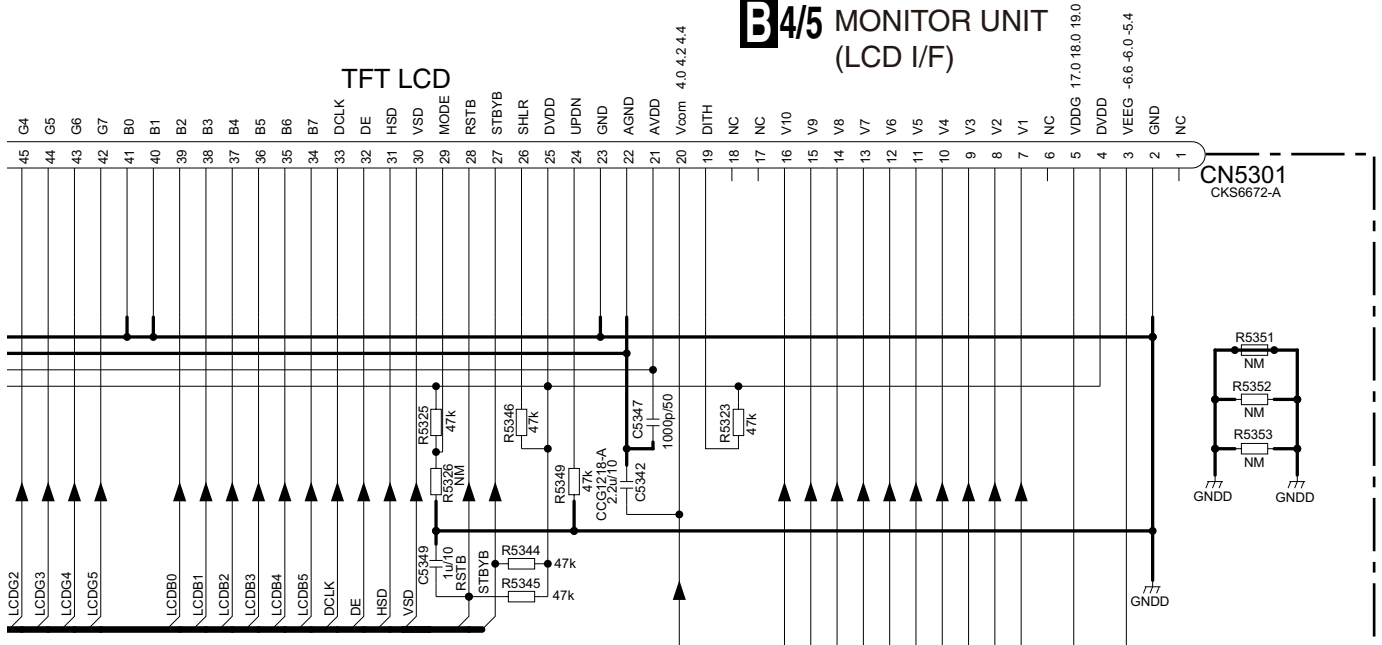
Ref.5201-5300

10.20 MONITOR UNIT (LCD I/F)

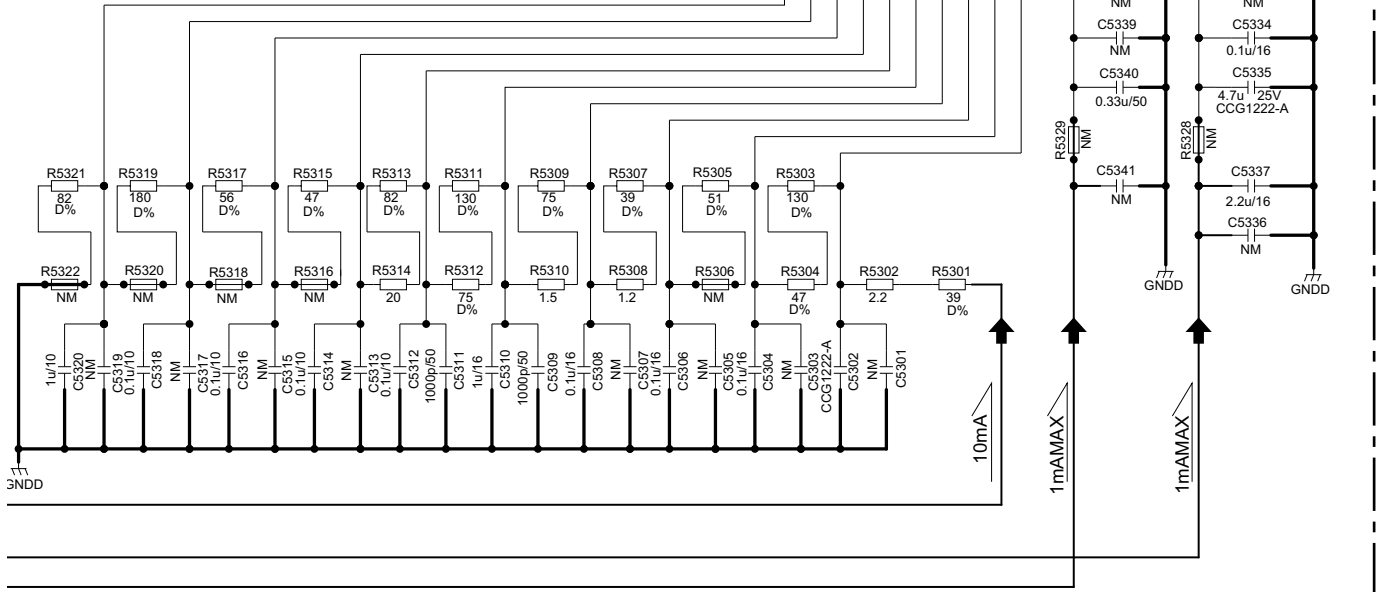


B4/5 MONITOR UNIT (LCD I/F)

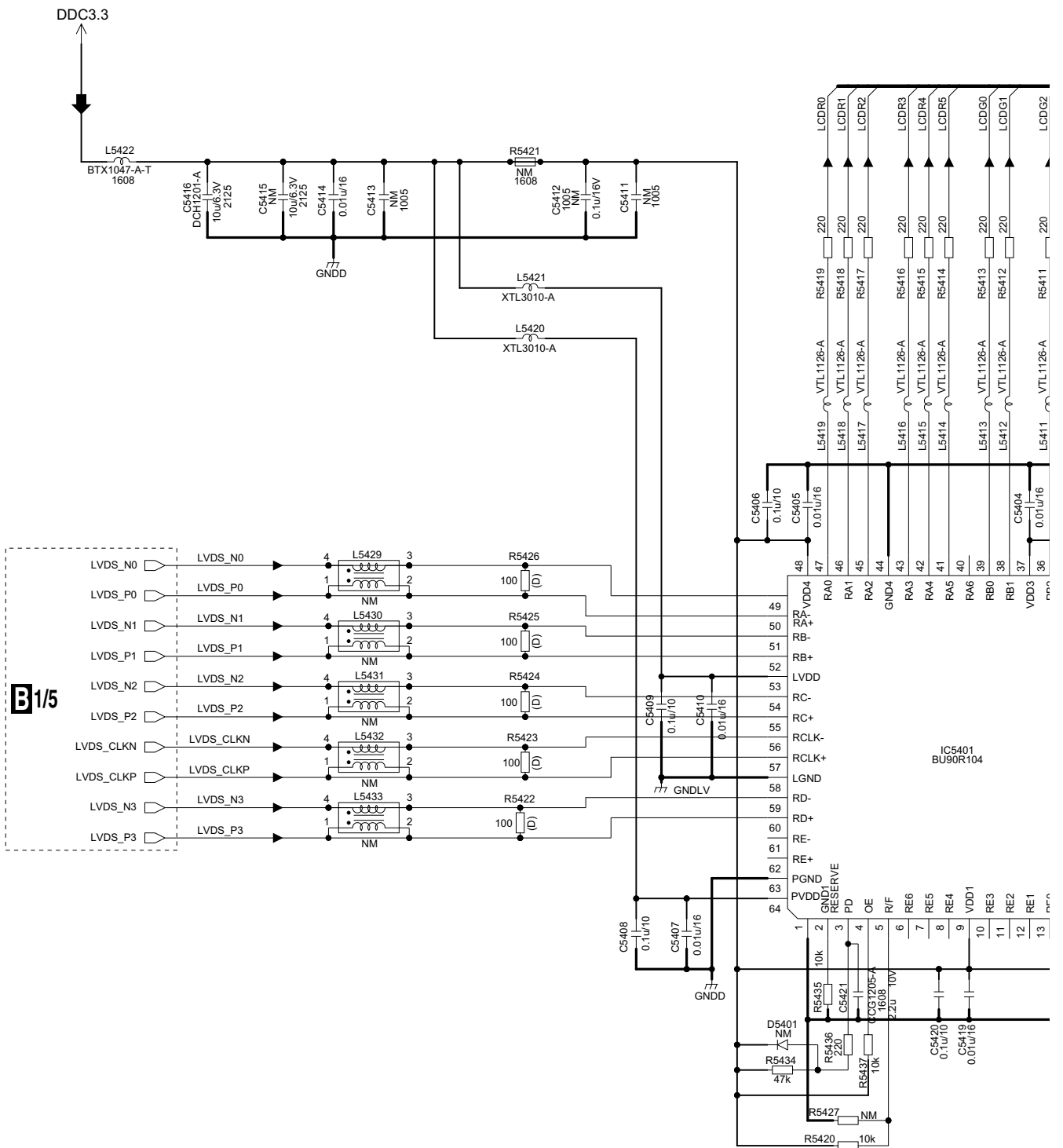
TFT LCD



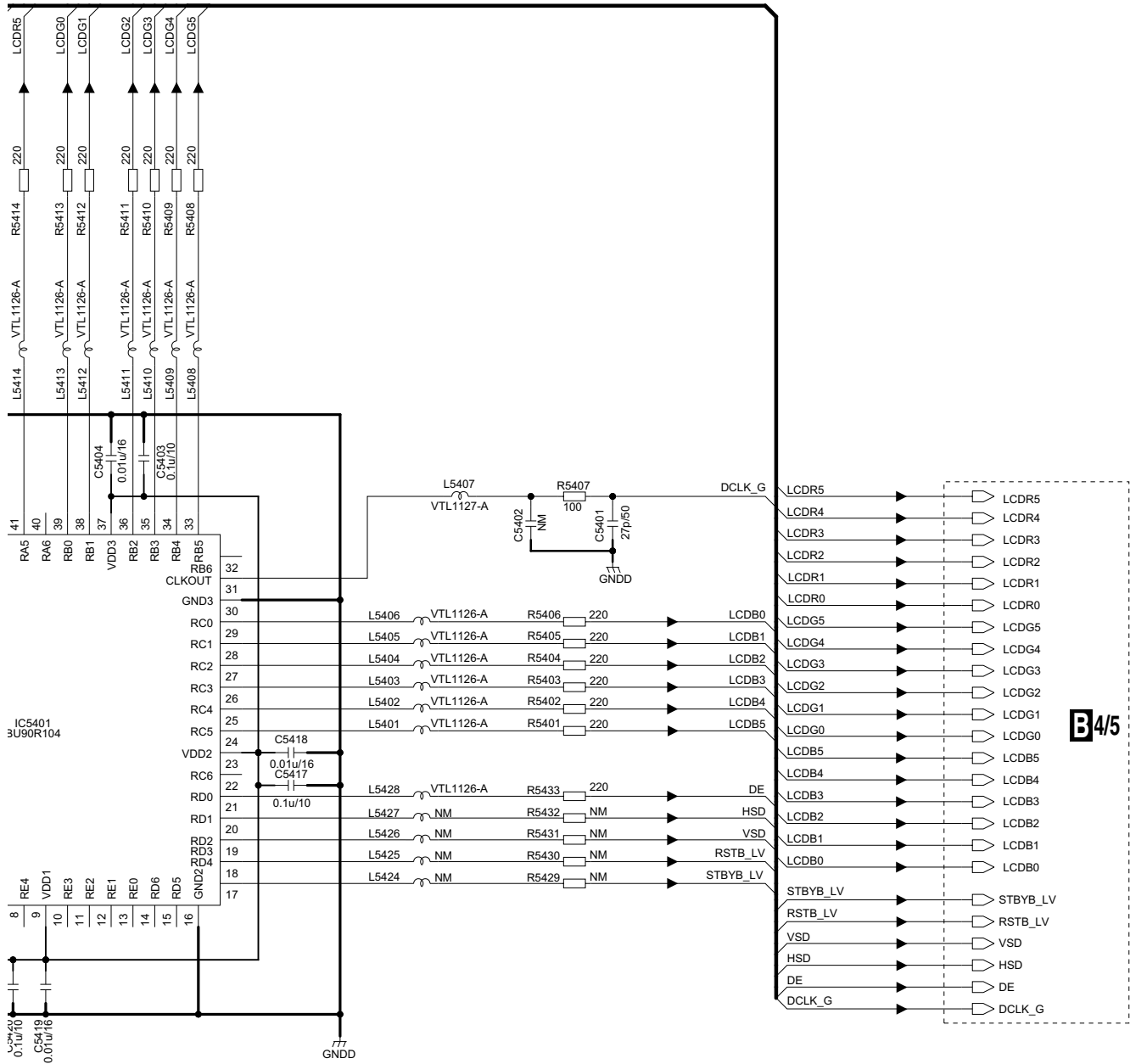
GAMMA VOLTAGE BLOCK



10.21 MONITOR UNIT (LVDC RX)

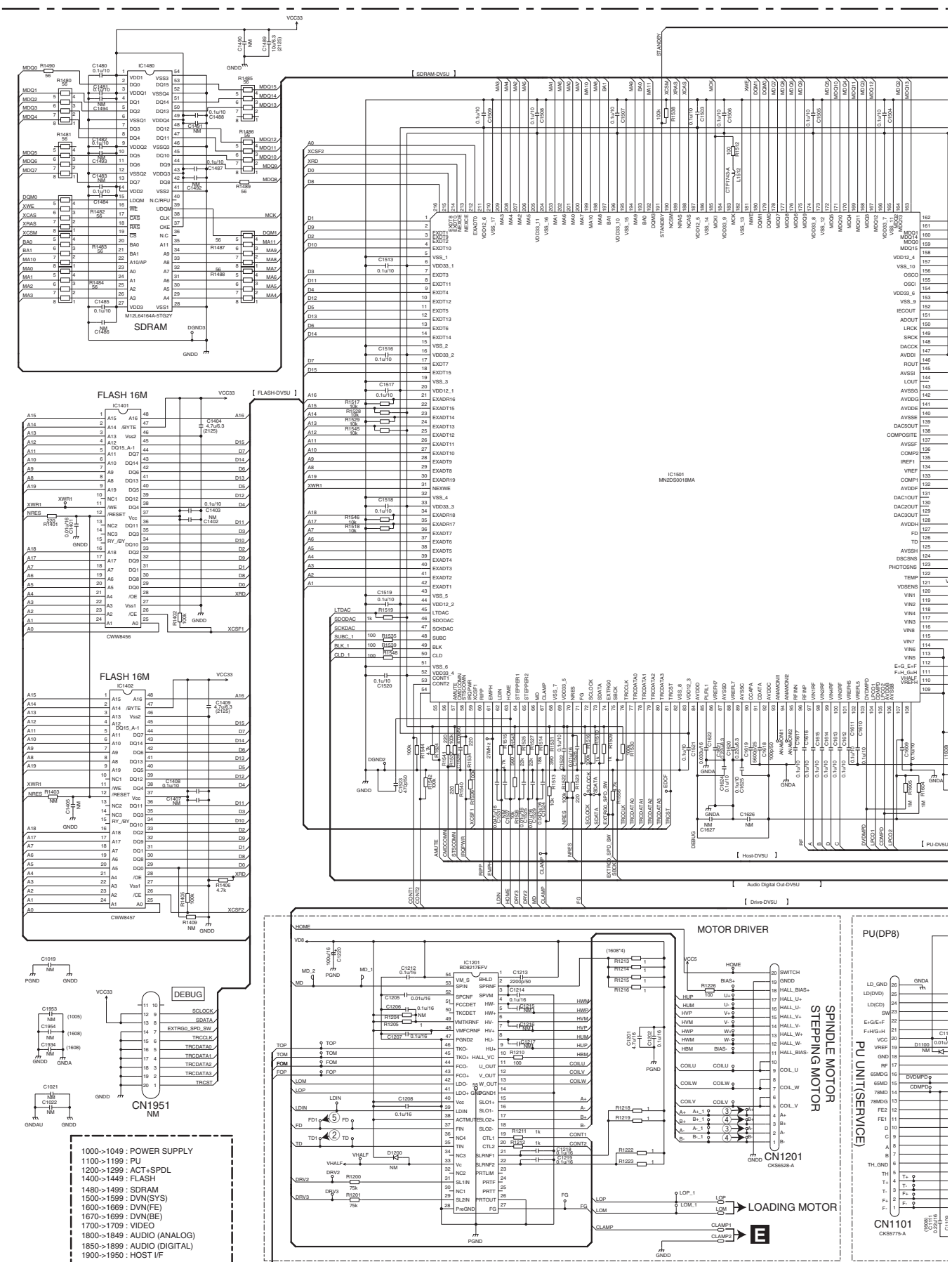


B5/5 MONITOR UNIT (LVDC RX)



Ref.5401-5500

10.22 DVD CORE UNIT (MS7.2) (1/2 scale)



- 1000->1049: POWER SUPPLY
- 1100->1199: PU
- 1200->1299: ACT+SPDL
- 1400->1449: FLASH
- 1480->1499: SDRAM
- 1500->1599: DVN(SYS)
- 1600->1699: DVN(S)
- 1670->1699: DVN(BE)
- 1700->1709: VIDEO
- 1800->1849: AUDIO (ANALOG)
- 1850->1899: AUDIO (DIGITAL)
- 1900->1950: HOST I/F

A
B
C
D
E
F

1

2

3

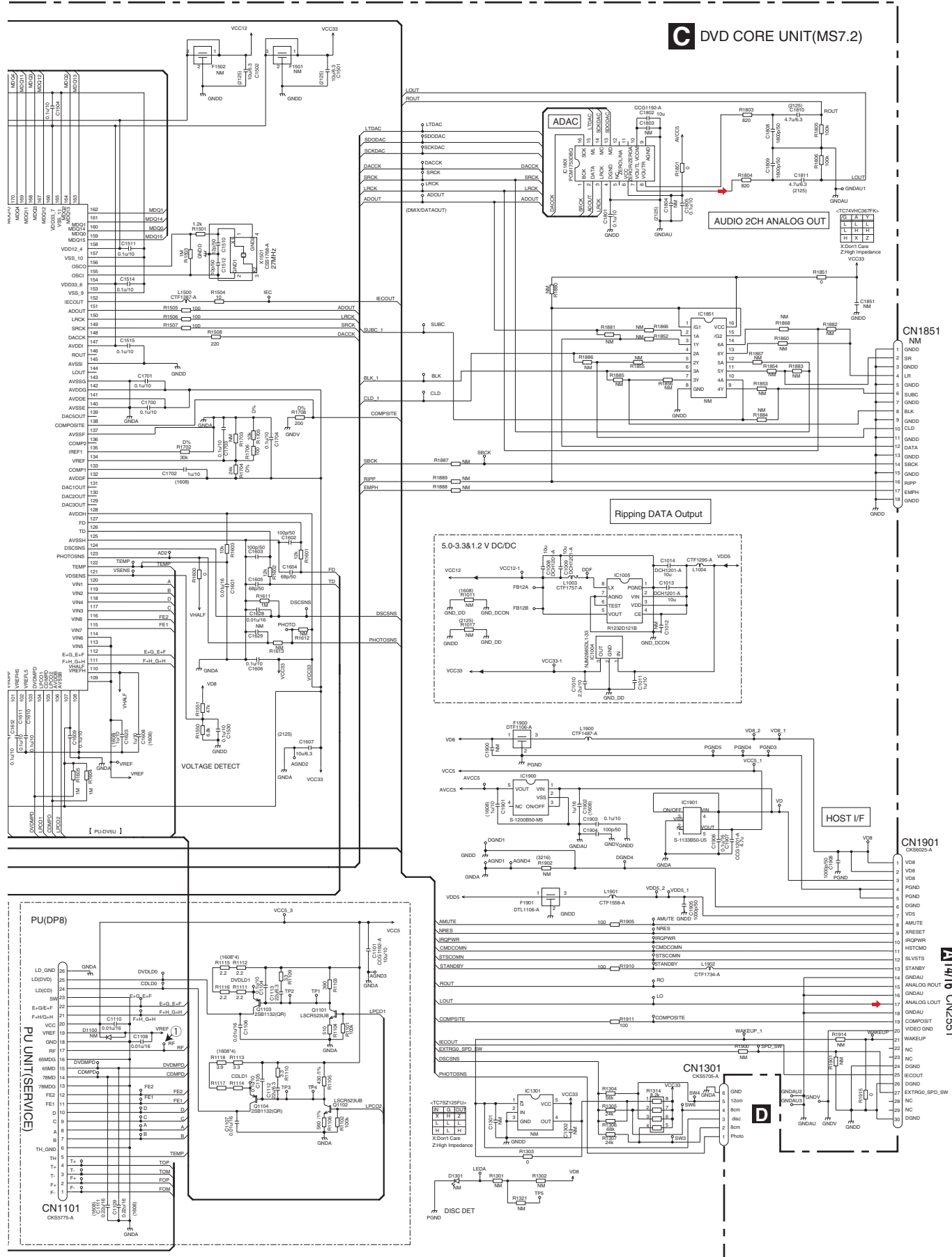
4

1

2

3

4



A

B

C

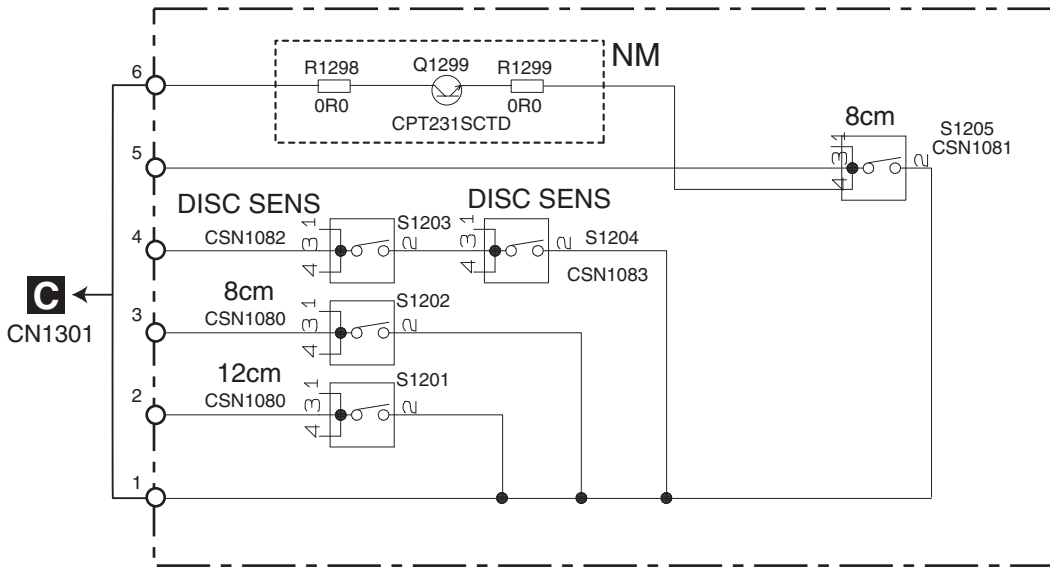
D

E

F

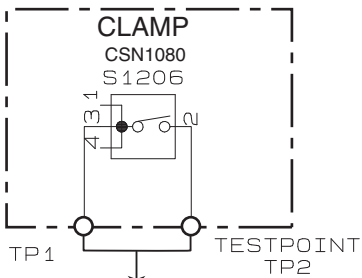
10.23 COMPOUND UNIT(A) and COMPOUND UNIT(B)

D COMPOUND UNIT(A)



C
CN1301

E COMPOUND UNIT(B)



C

D E

A

B

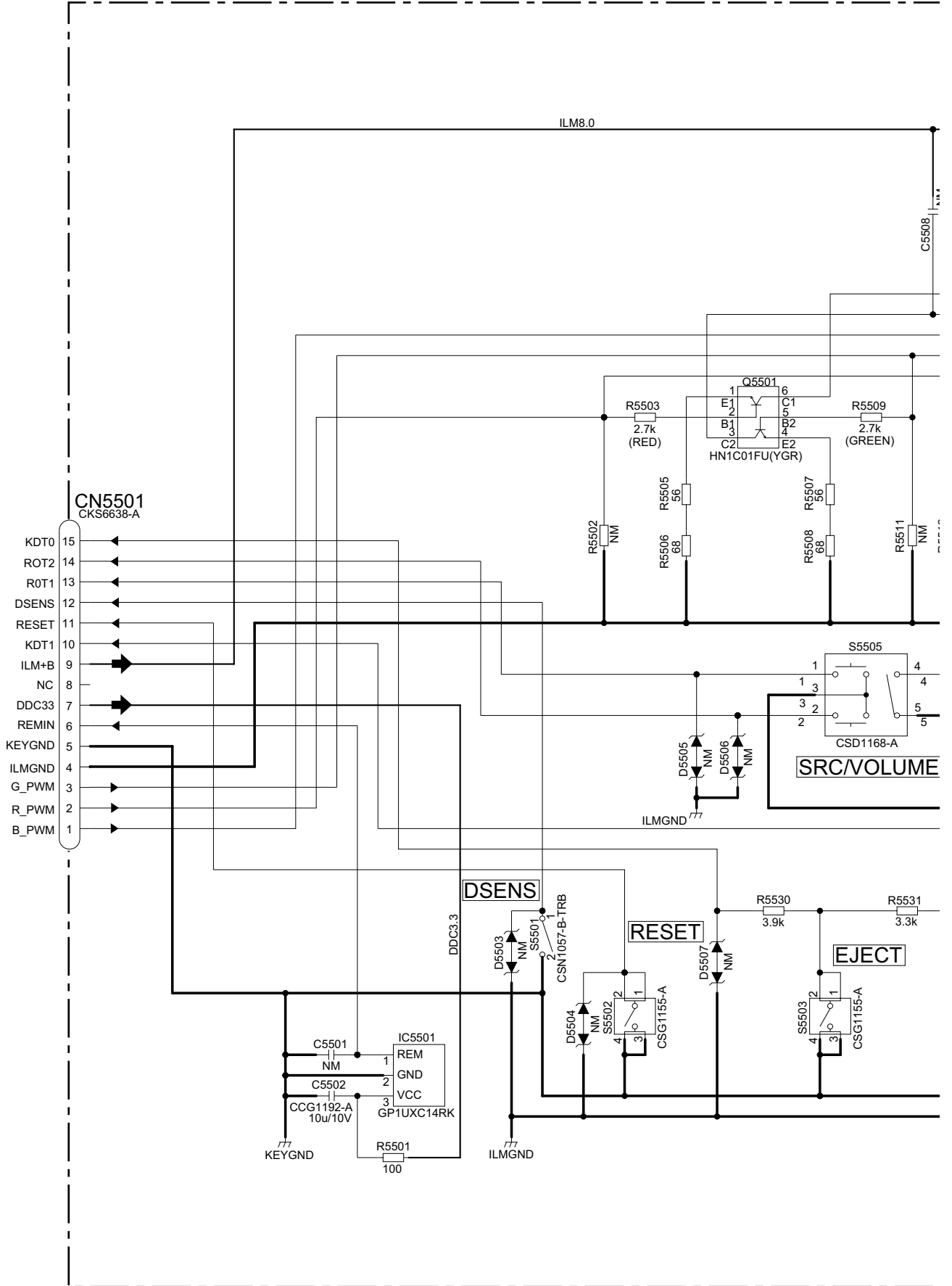
C

D

E

F

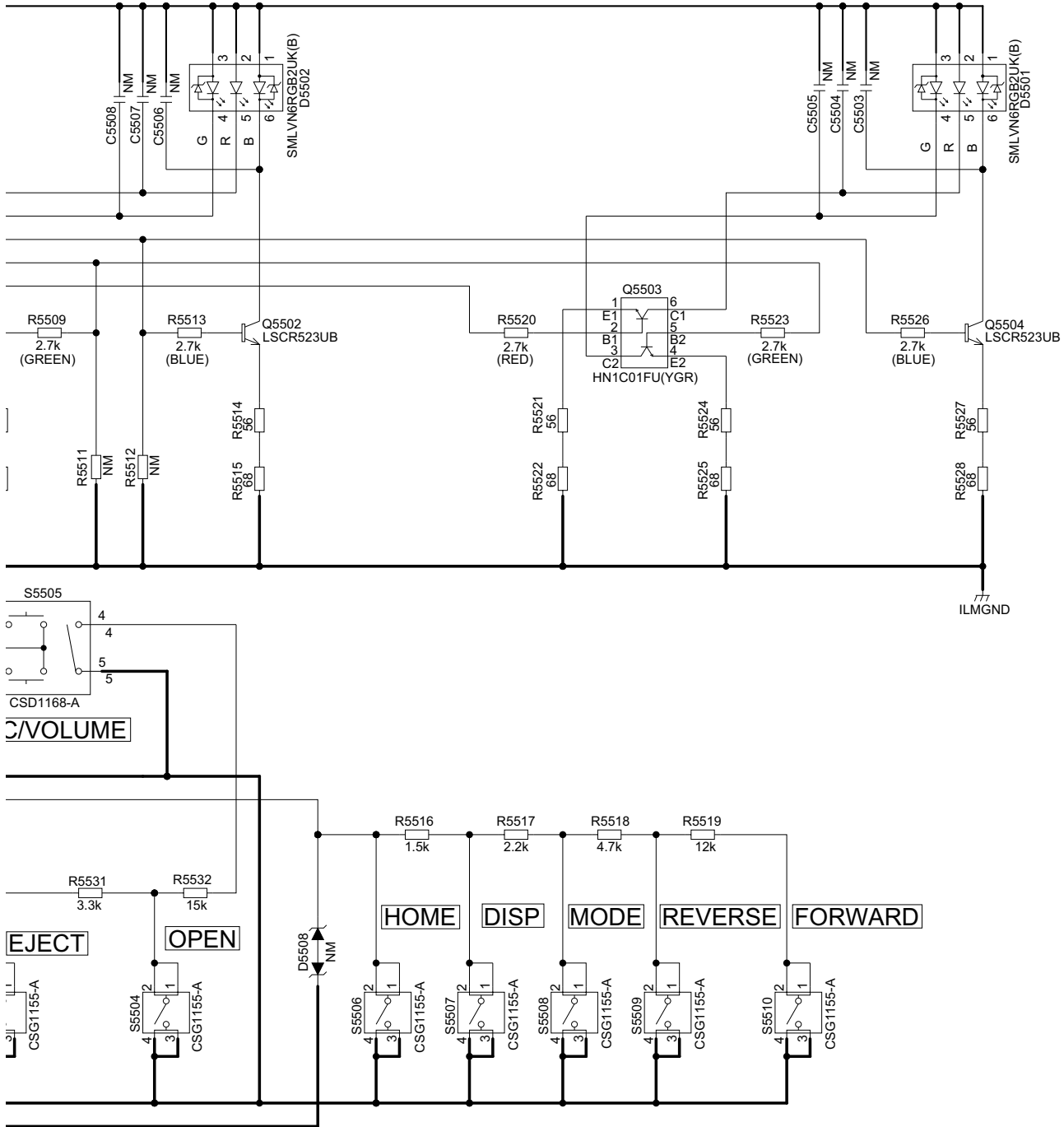
10.24 KEYBOARD UNIT



A15/16
CN3121

F

F KEYBOARD UNIT



Ref.5501-

10.25 MAIN PCB UNIT and SW PCB UNIT

A

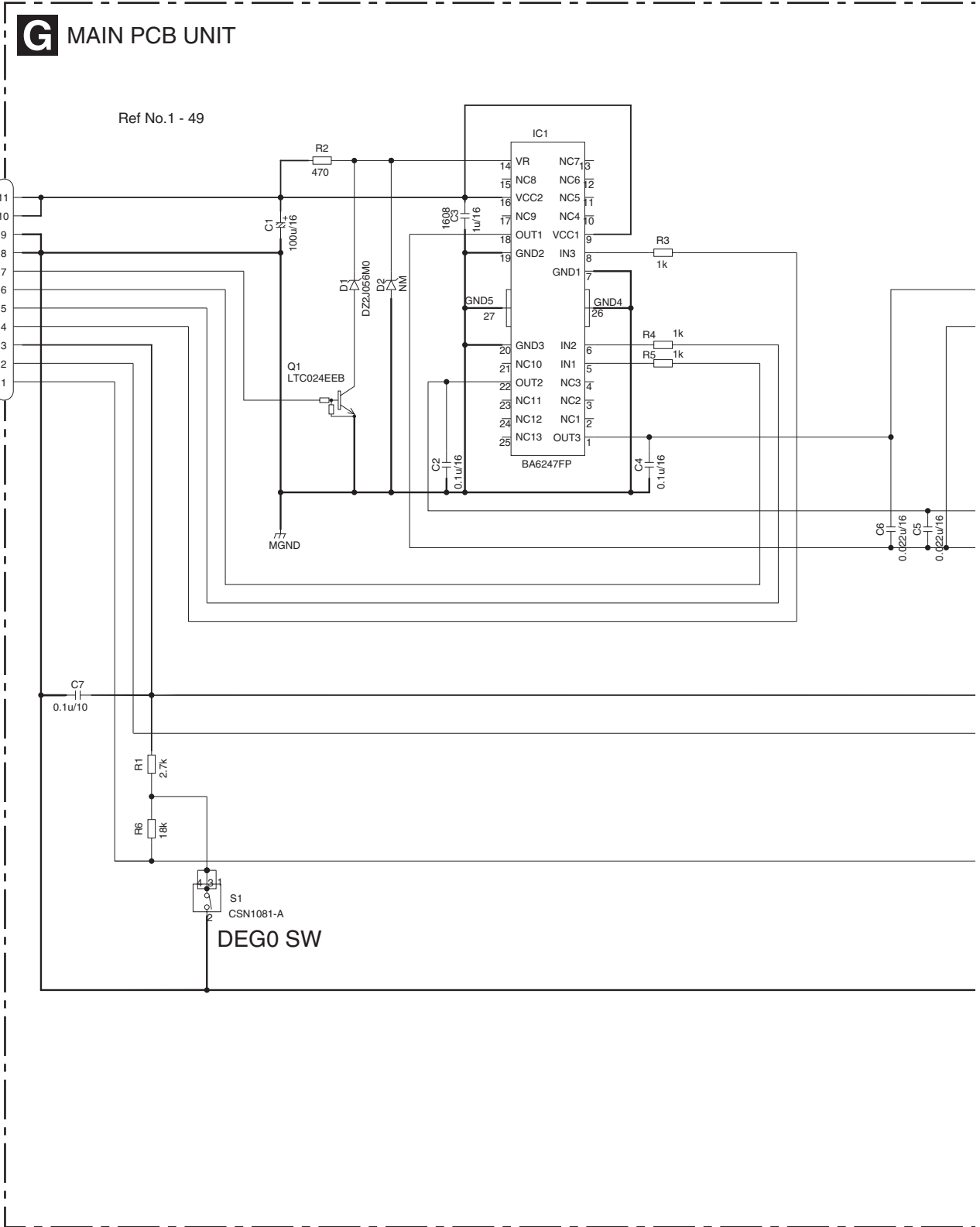
B

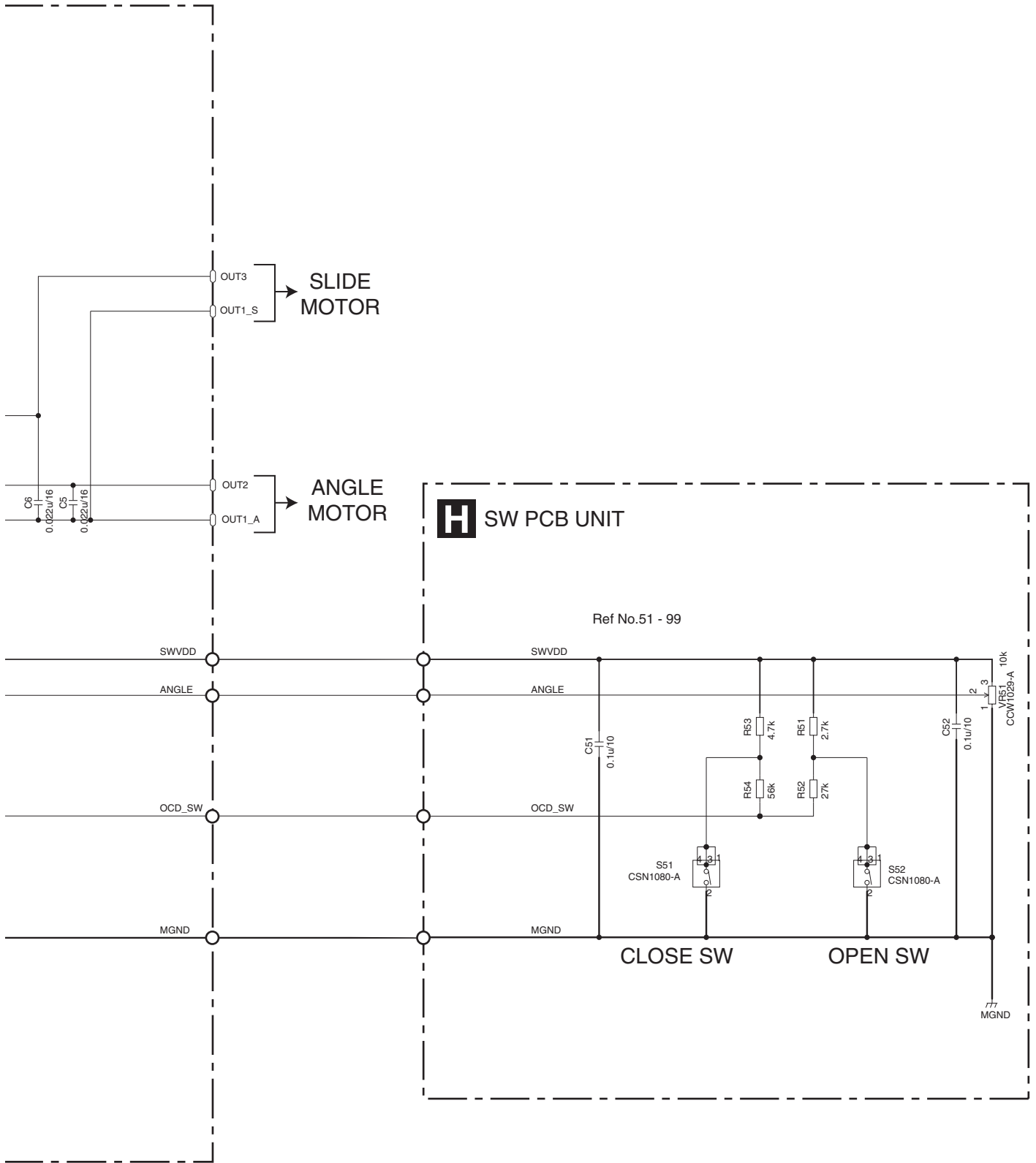
C

D

E

F





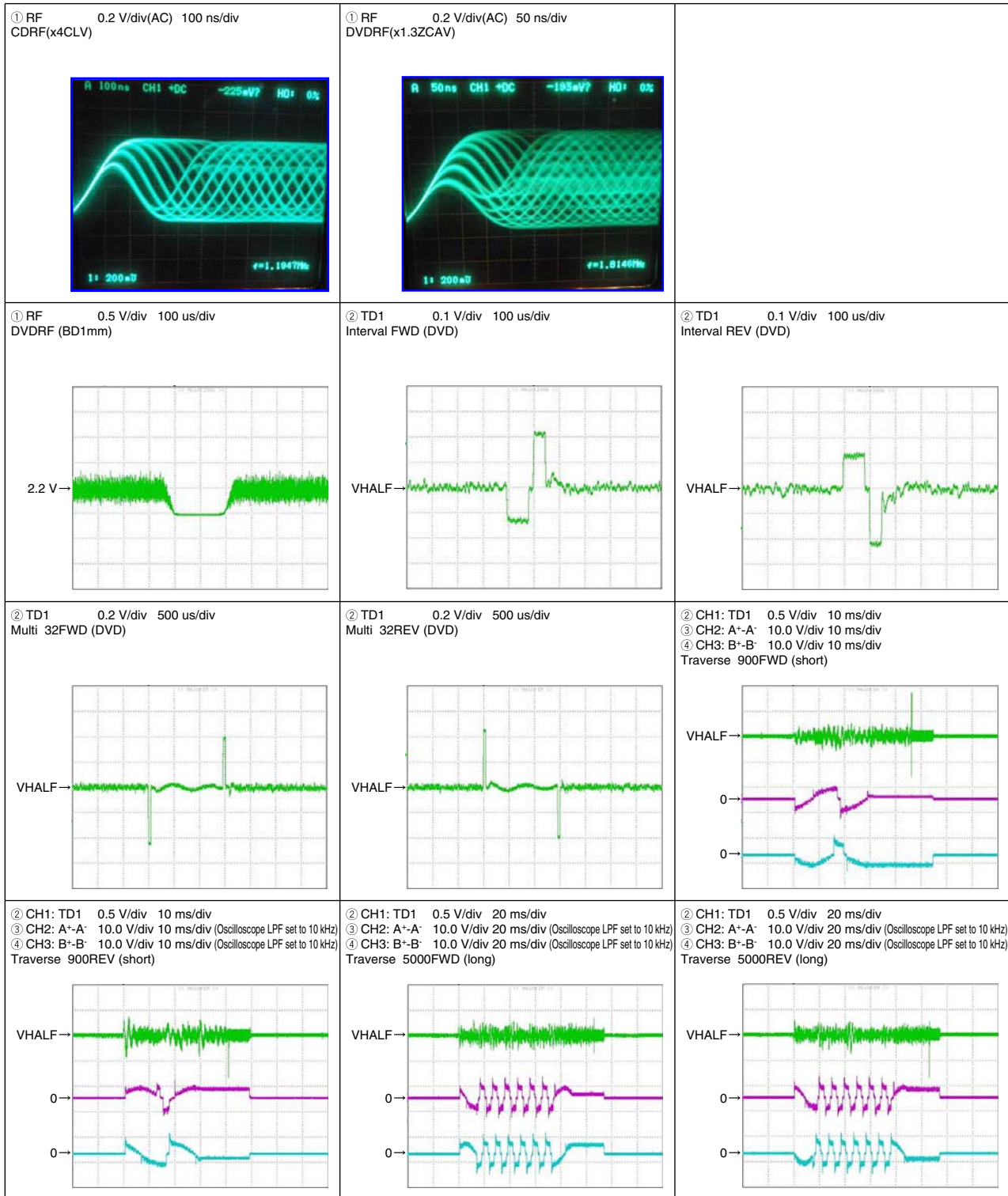
10.26 WAVEFORMS

● DVD Core Unit(MS7.2)

Note: 1. Circled numbers represent the measurement point in the circuit diagram.
 2. Reference voltage: 1.65V (TD1, FD1) (= VHALF)
 2.2V (RF) (= VREF)

- 1 RF
- 2 TD1
- 3 A+, A-
- 4 B+, B-
- 5 FD1

This waveform is monitored based on GND, and 1.65V or 2.2V offset is inserted using the oscilloscope.



A

B

C

D

E

F



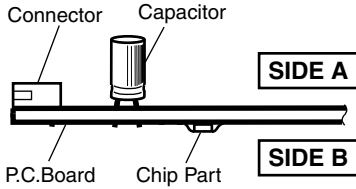
11. PCB CONNECTION DIAGRAM

11.1 MOTHER UNIT

NOTE FOR PCB DIAGRAMS

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

2. Viewpoint of PCB diagrams



A MOTHER UNIT

C

FAN ←

B CN5003 ←

G CN1 ←

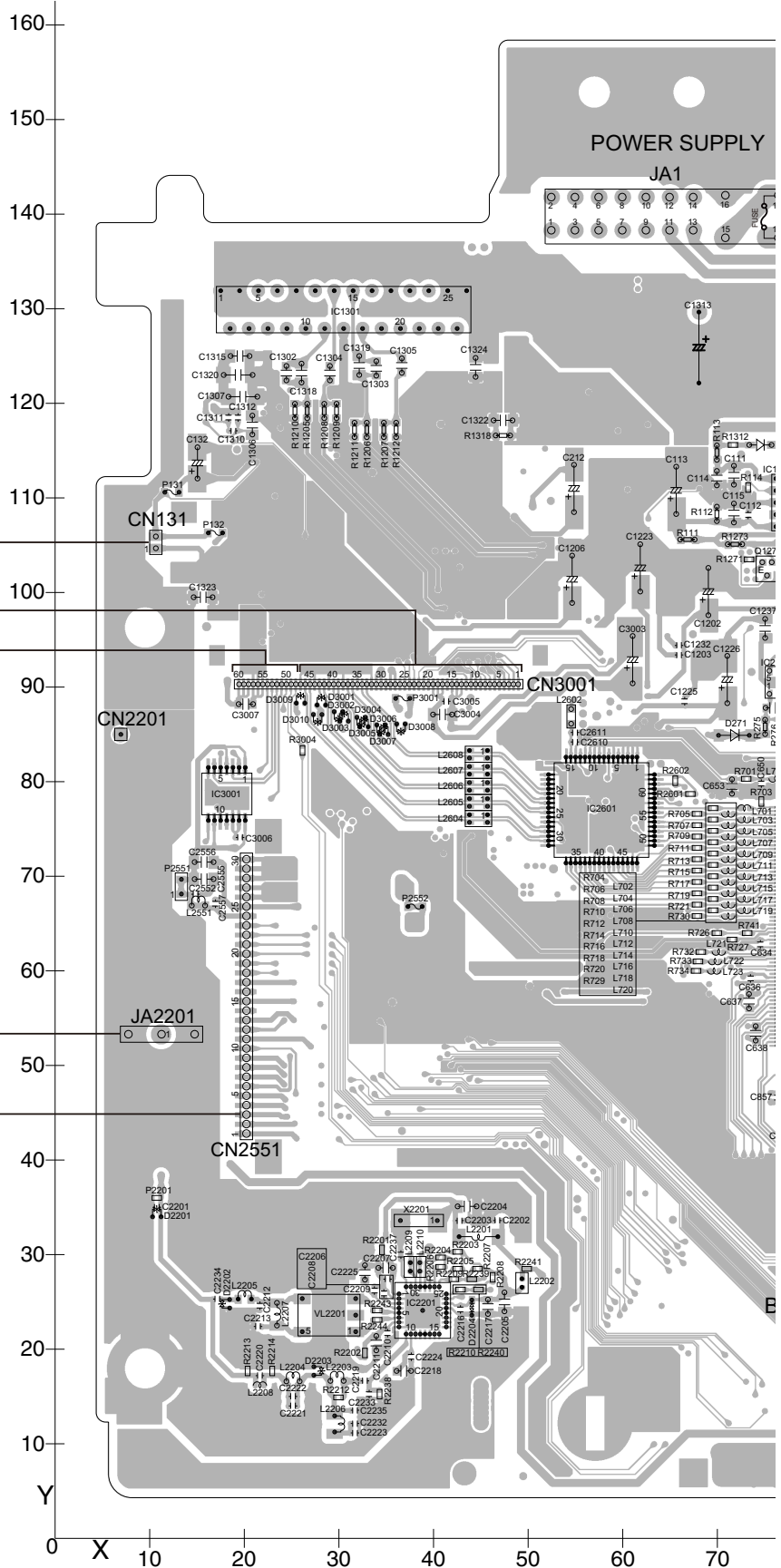
D

FM/AM ANT ←

C CN1901 ←

E

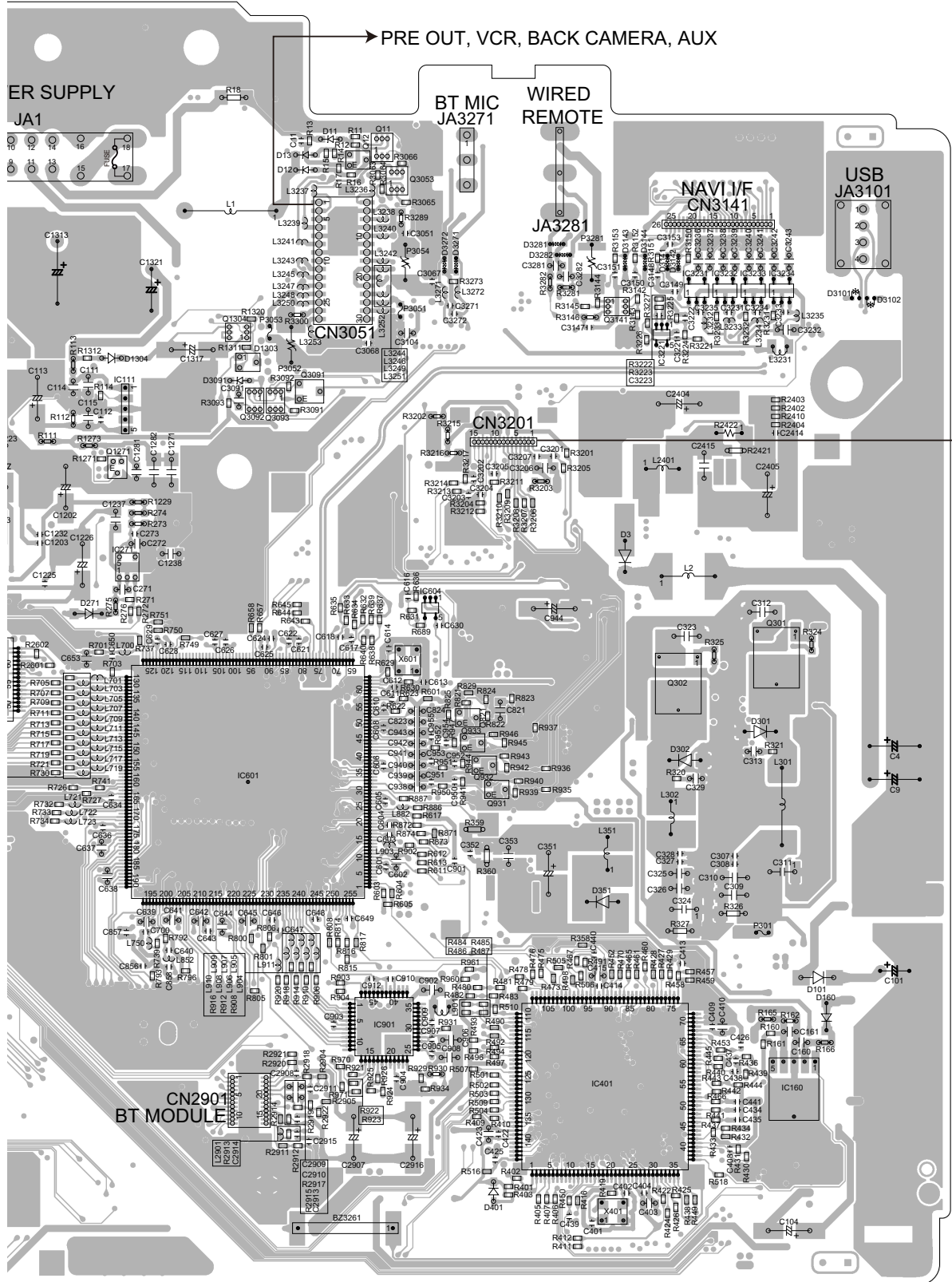
F



A

SIDE A

A



PRE OUT, VCR, BACK CAMERA, AUX

1SEG DTV TUNER

FRONT

70 80 90 100 110 120 130 140 150 160 170

AVH-X7700BT/XNUC

A

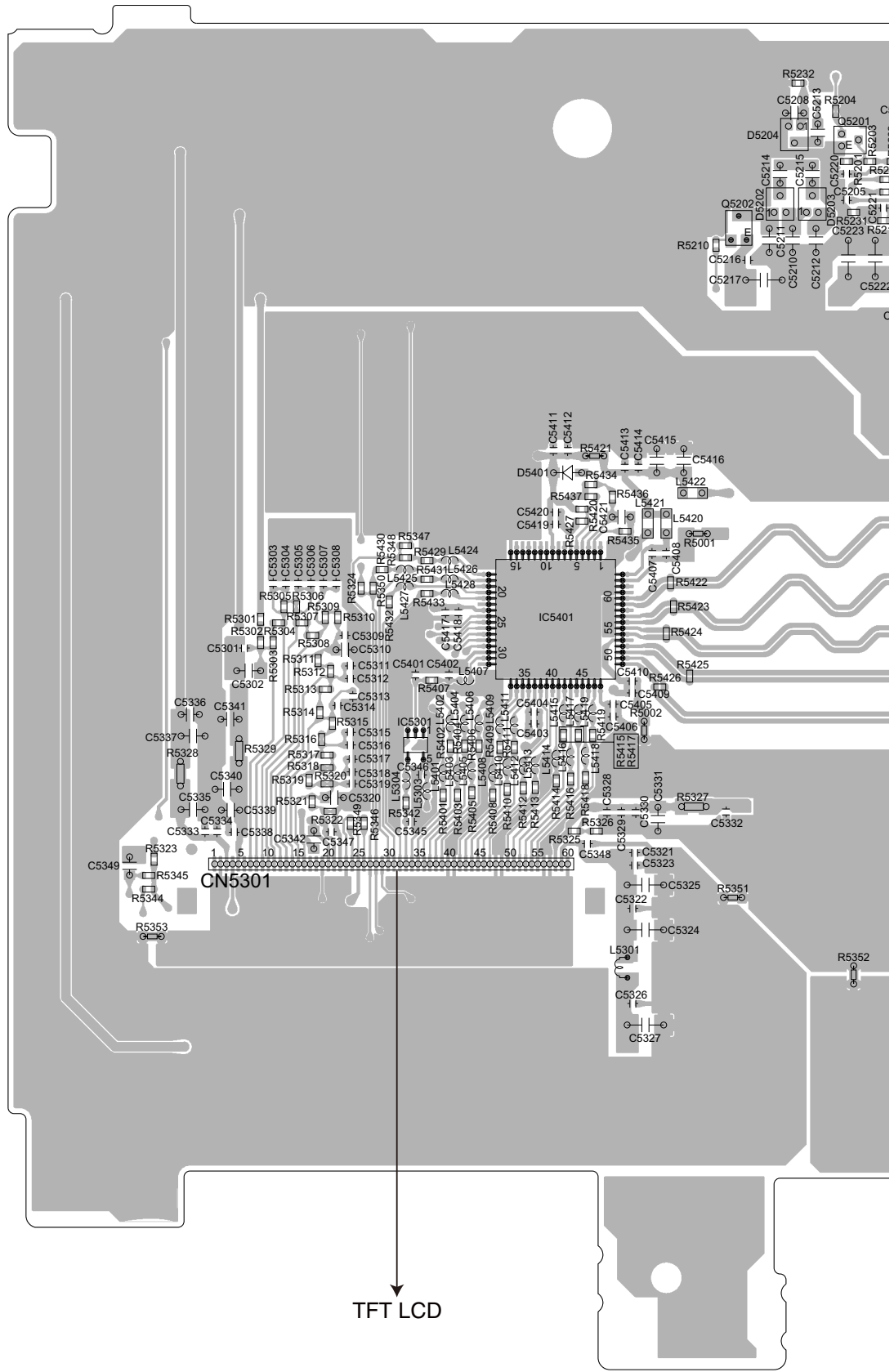
F

11.2 MONITOR UNIT

B MONITOR UNIT

A
B
C
D
E
F

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



TFT LCD

AVH-X7700BT/XNUC

B

SIDE A

A

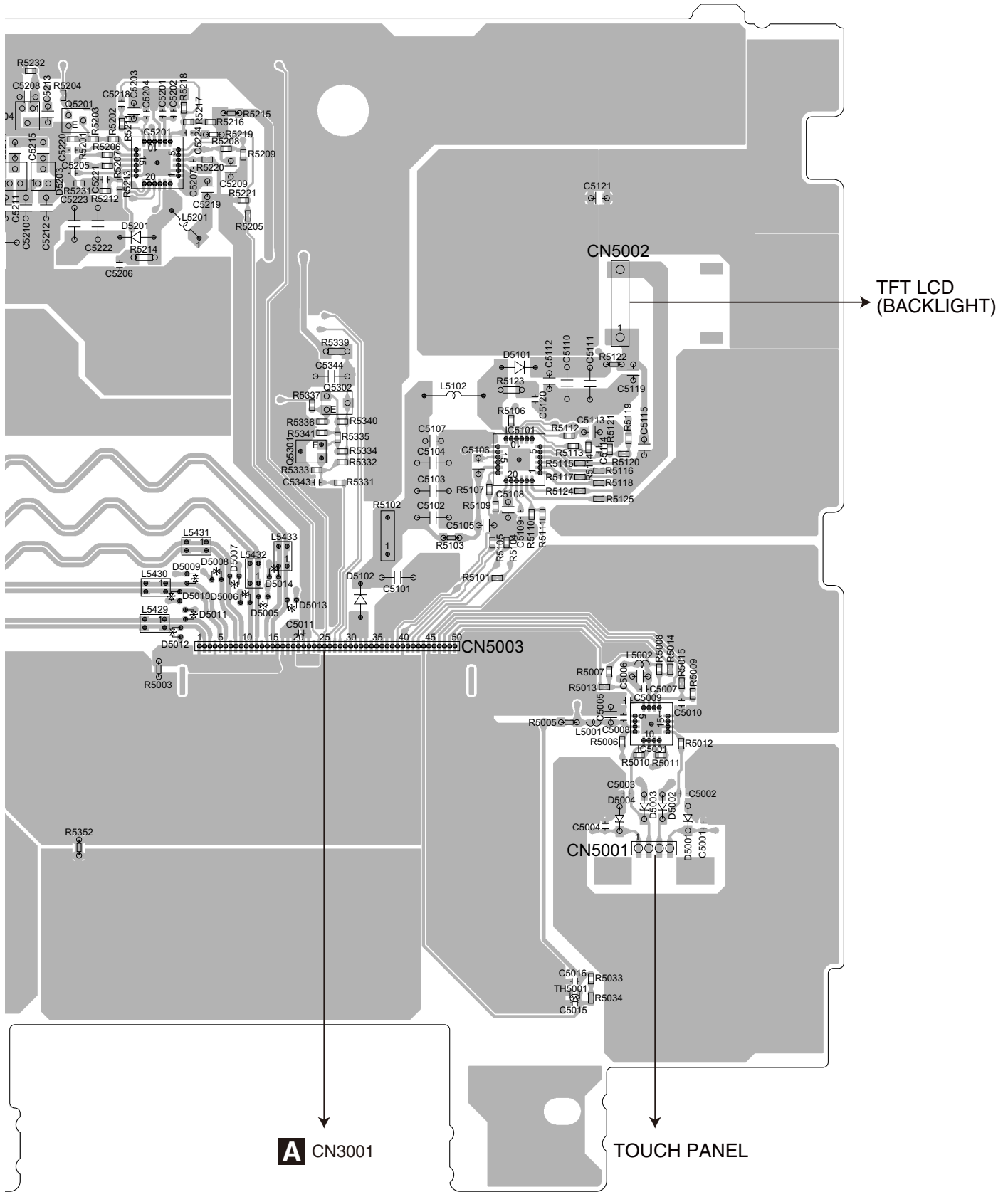
B

C

D

E

F



70 80 90 100 110 120 130 140 150

AVH-X7700BT/XNUC

B

B MONITOR UNIT

A

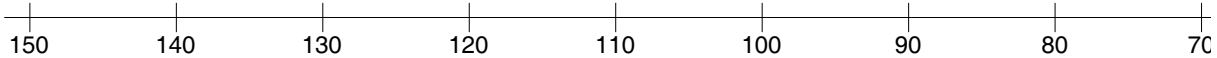
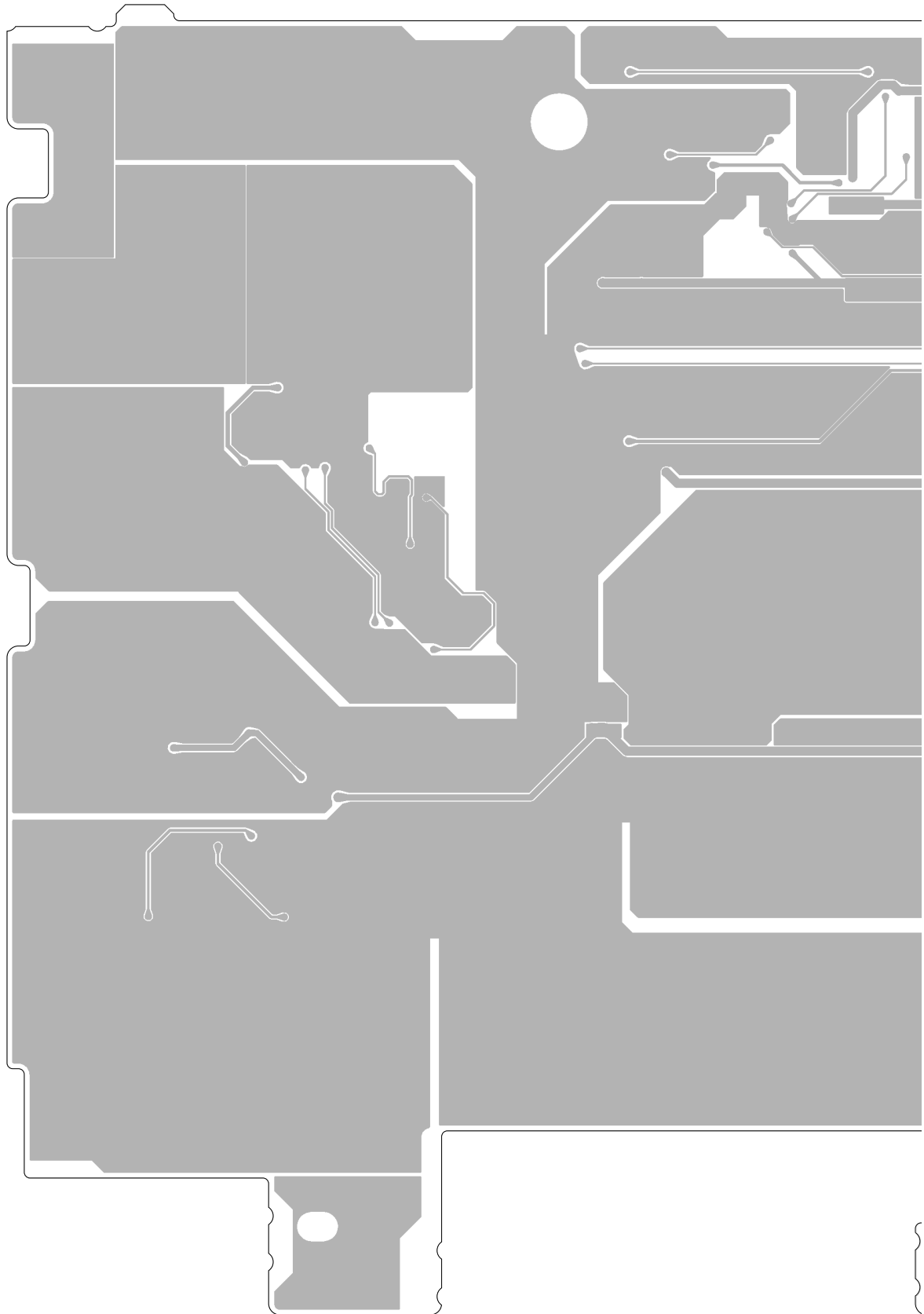
B

C

D

E

F



B

AVH-X7700BT/XNUC

SIDE B

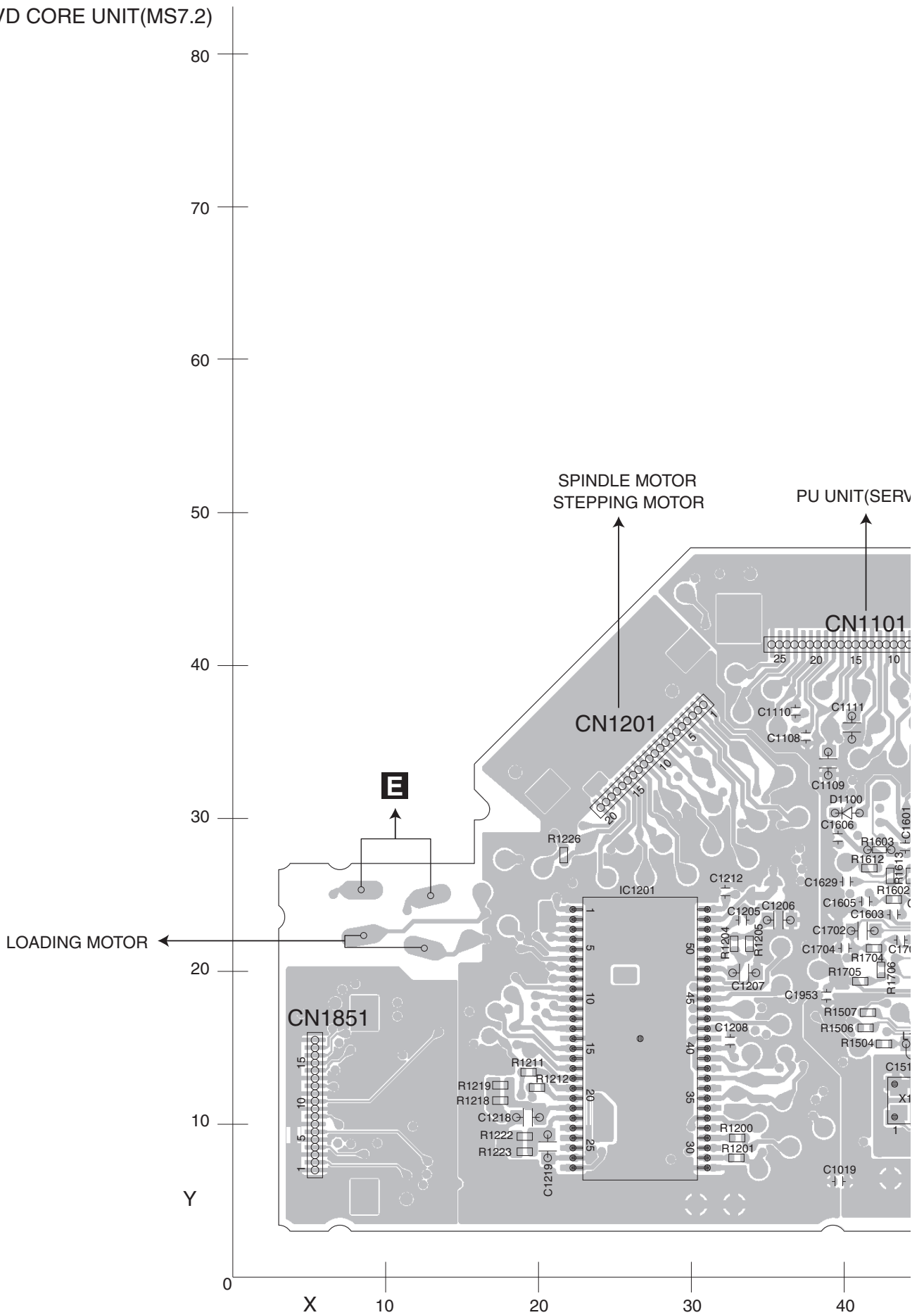


AVH-X7700BT/XNUC

B

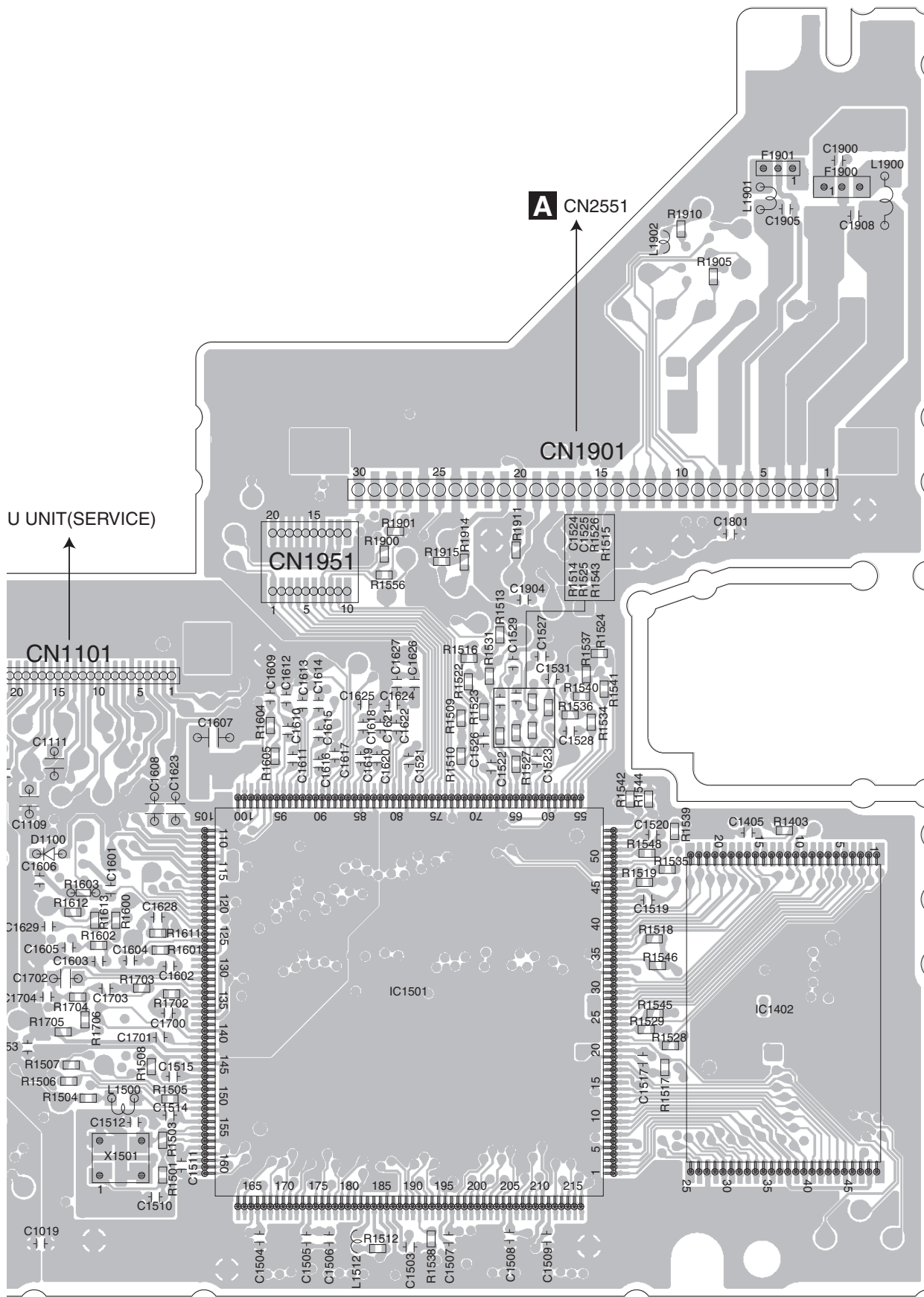
11.3 DVD CORE UNIT (MS7.2)

C DVD CORE UNIT(MS7.2)



AVH-X7700BT/XNUC

SIDE A



A

B

C

D

E

F

40

50

60

70

80

90

AVH-X7700BT/XNUC



C DVD CORE UNIT(MS7.2)

A

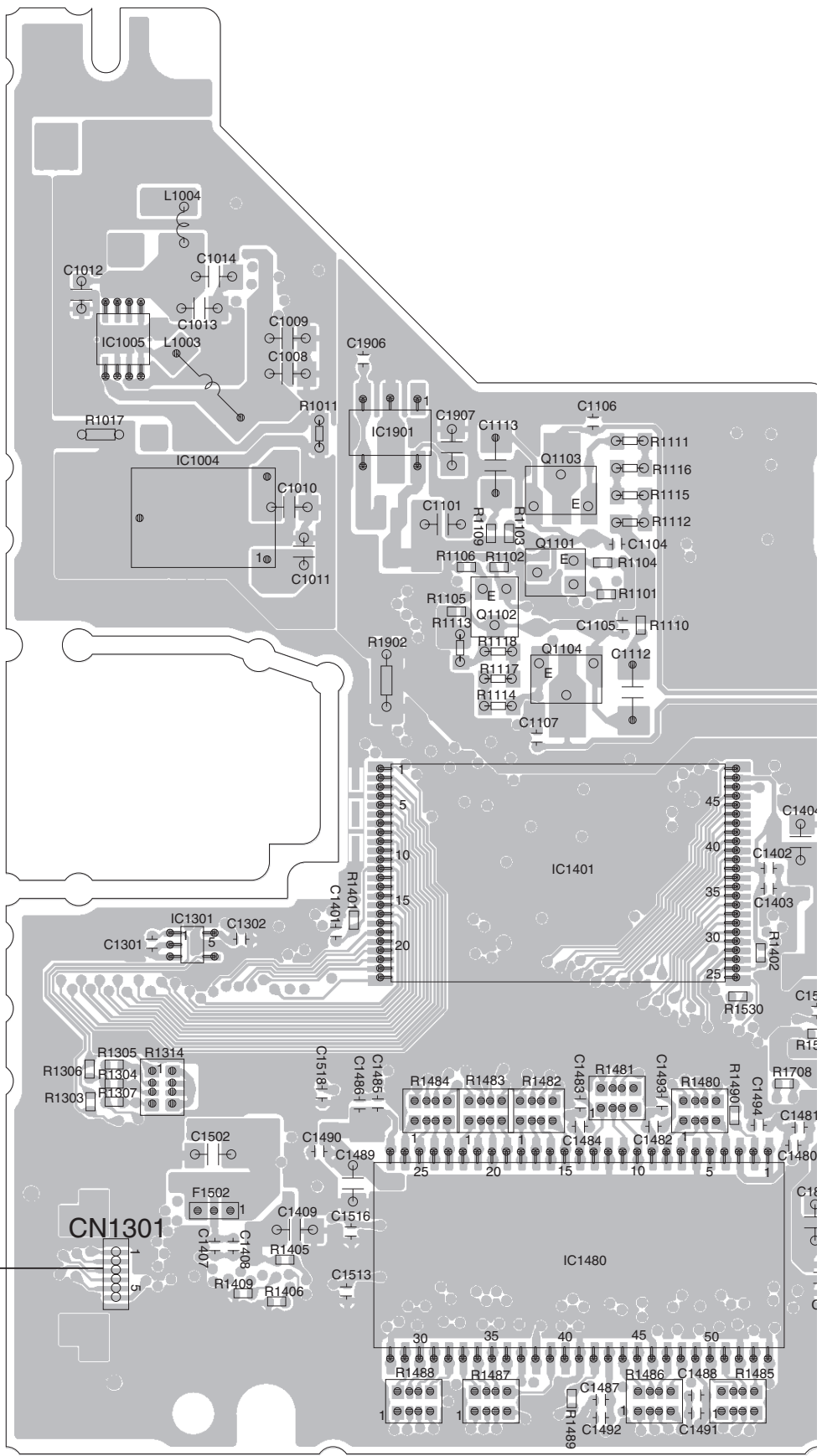
B

C

D

E

F

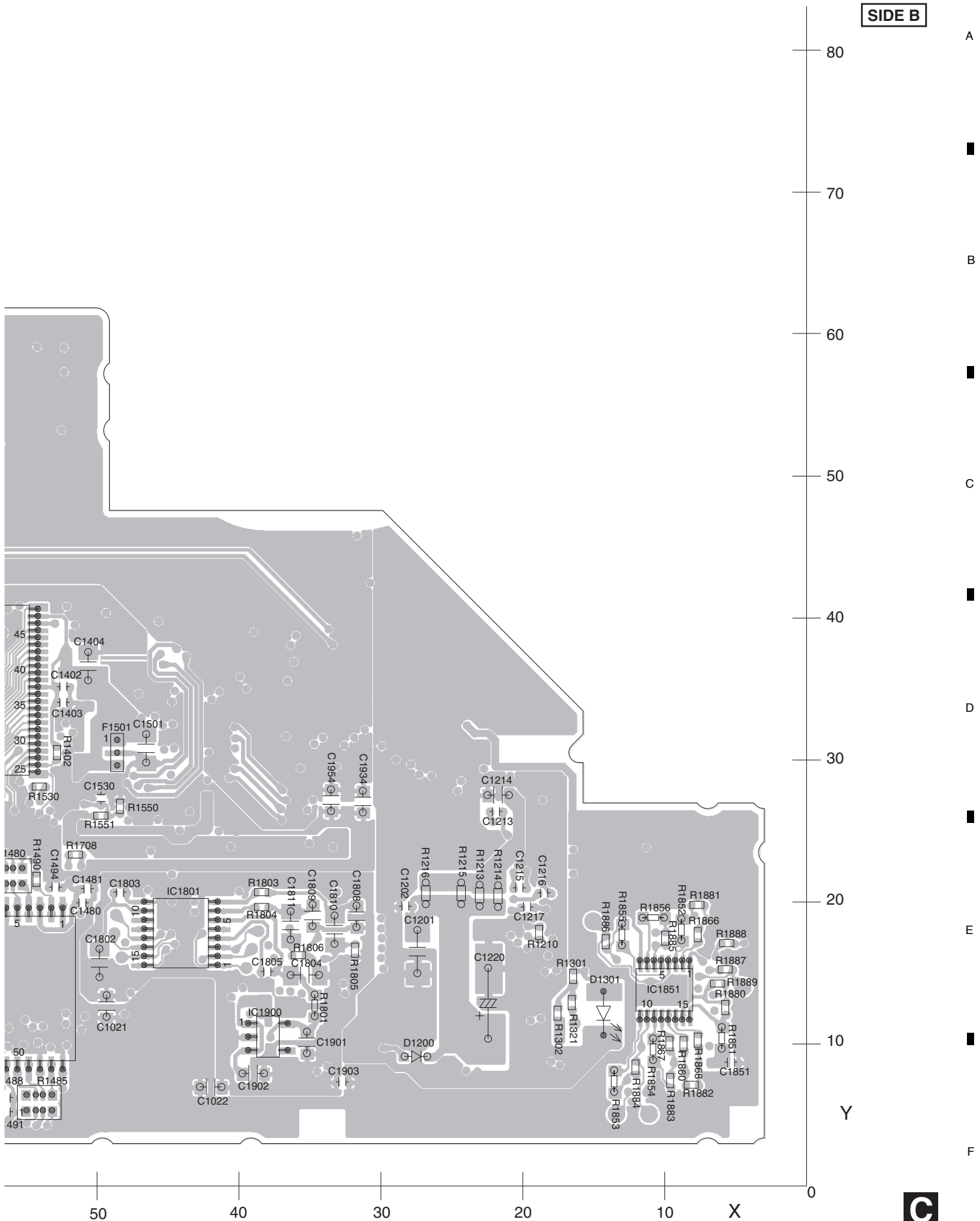


D



C

SIDE B



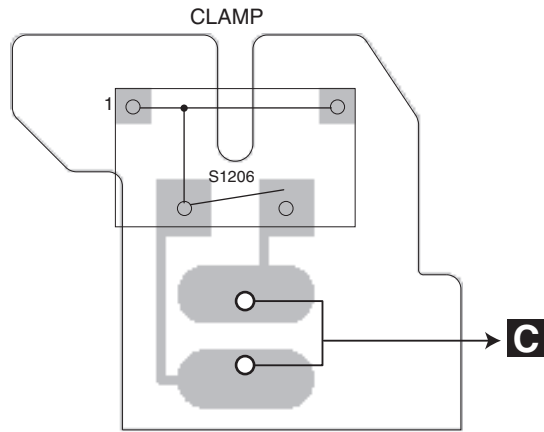
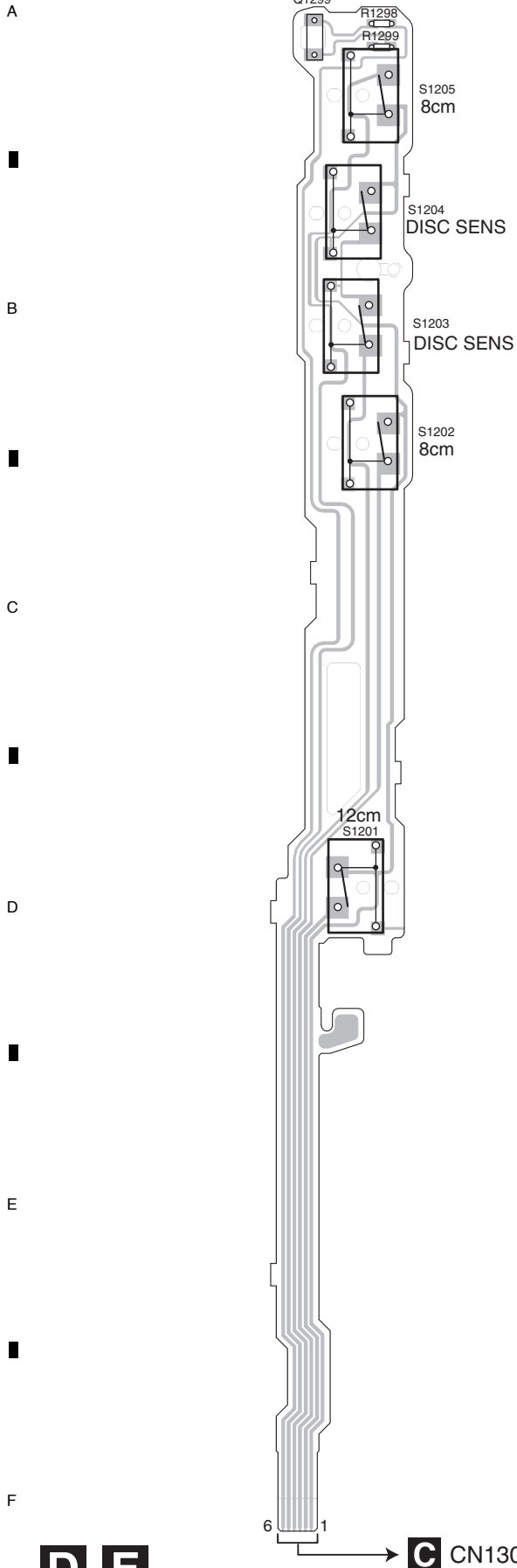
AVH-X7700BT/XNUC



11.4 COMPOUND UNIT(A) and COMPOUND UNIT(B)

D COMPOUND UNIT(A)

E COMPOUND UNIT(B)

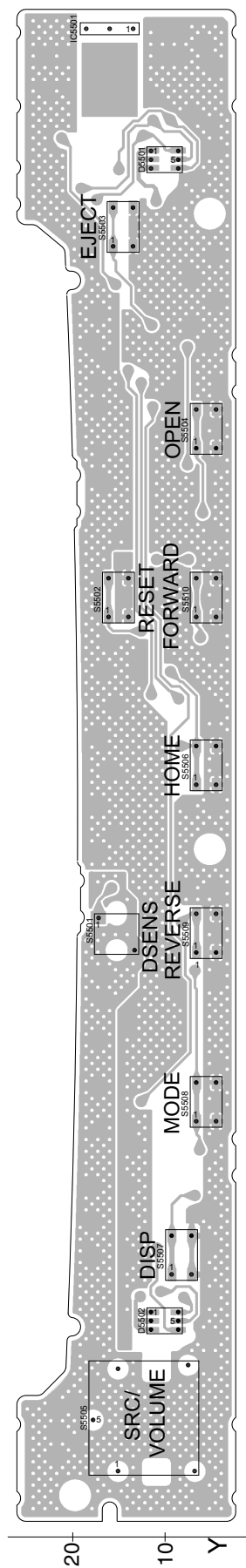


D E

C CN1301

11.5 KEYBOARD UNIT

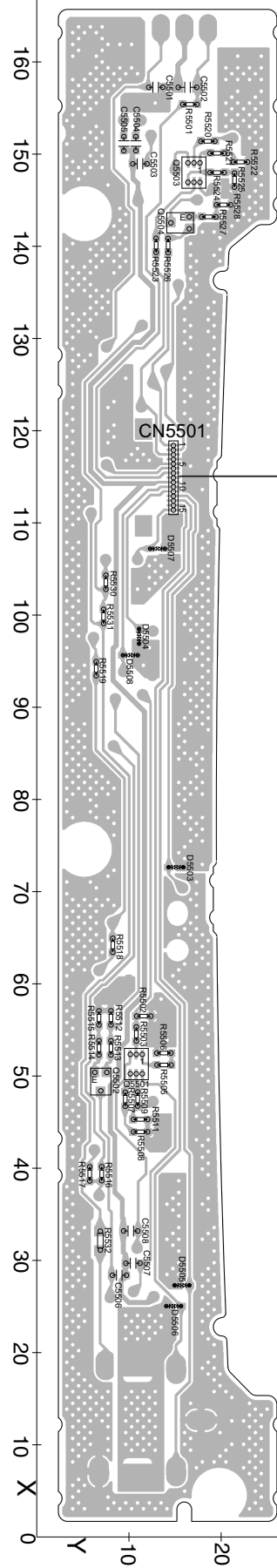
F KEYBOARD UNIT



SIDE A

F KEYBOARD UNIT

SIDE B



A B C D E F

11.6 MAIN PCB UNIT

G MAIN PCB UNIT

A

B

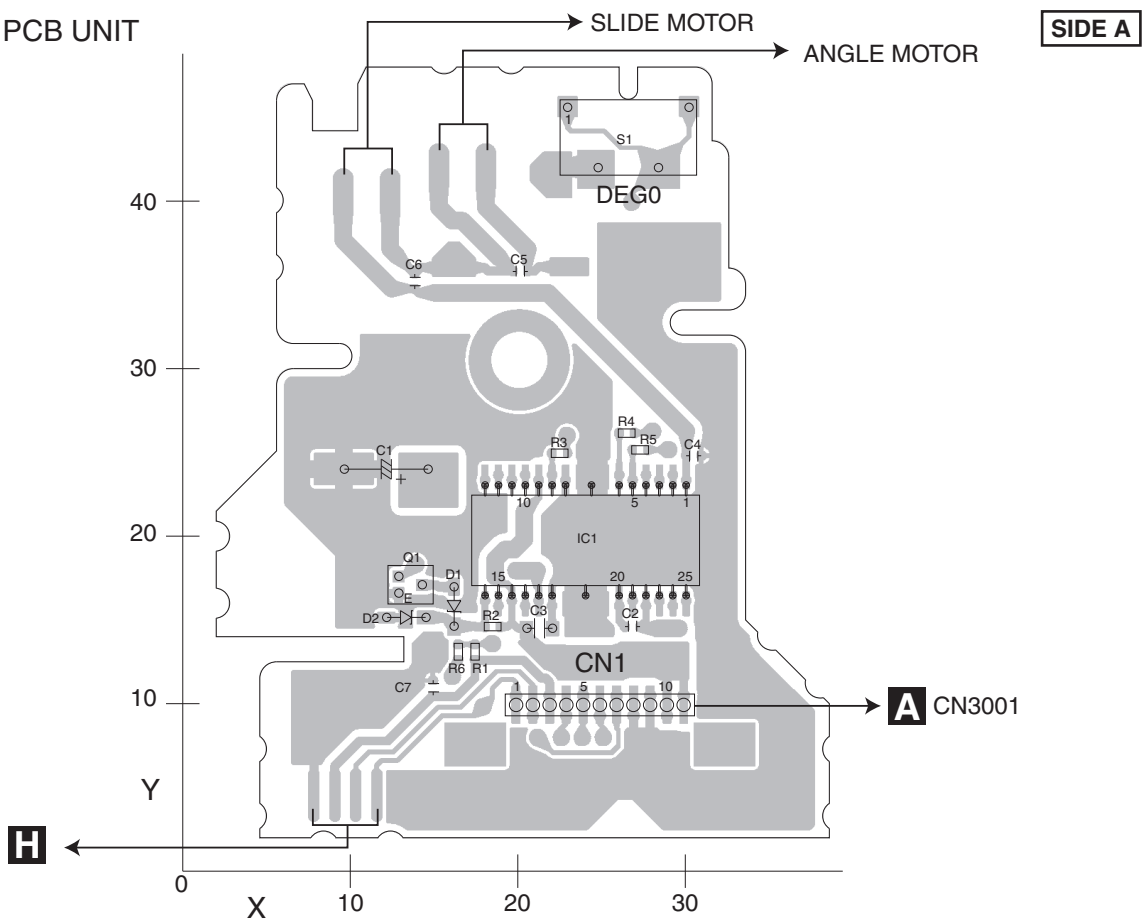
C

D

E

F

G



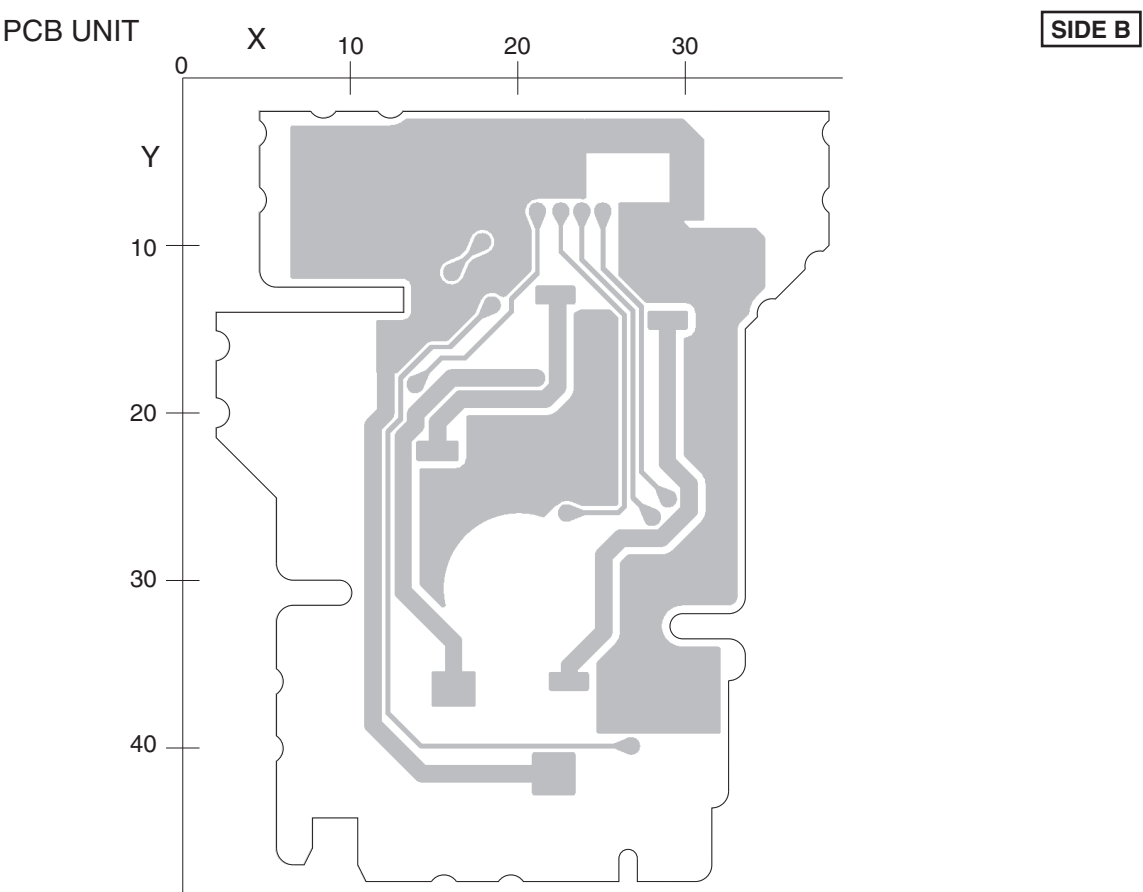
G MAIN PCB UNIT

D

E

F

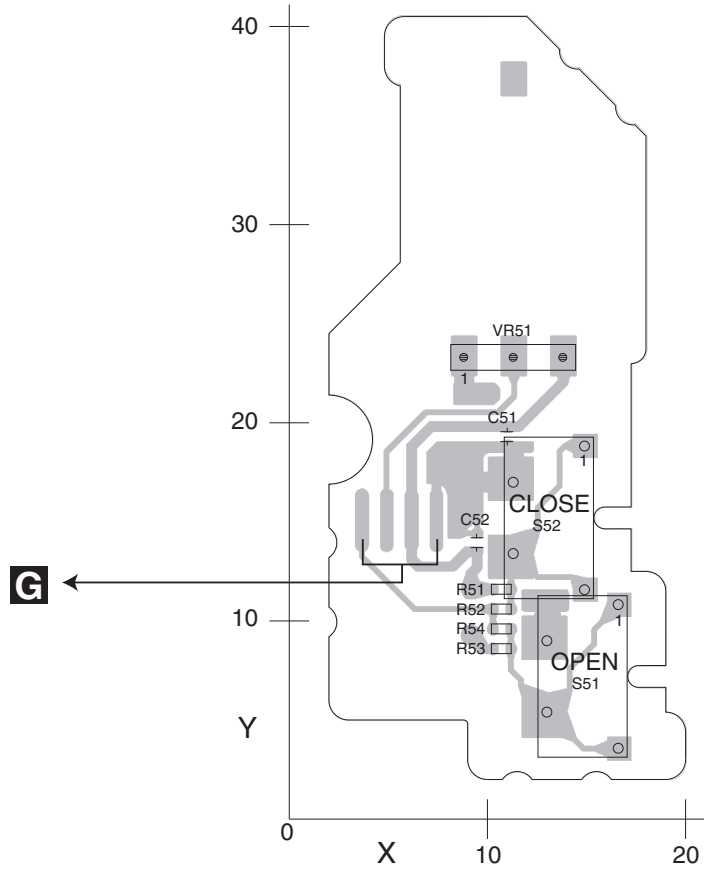
G



5
11.7 SW PCB UNIT

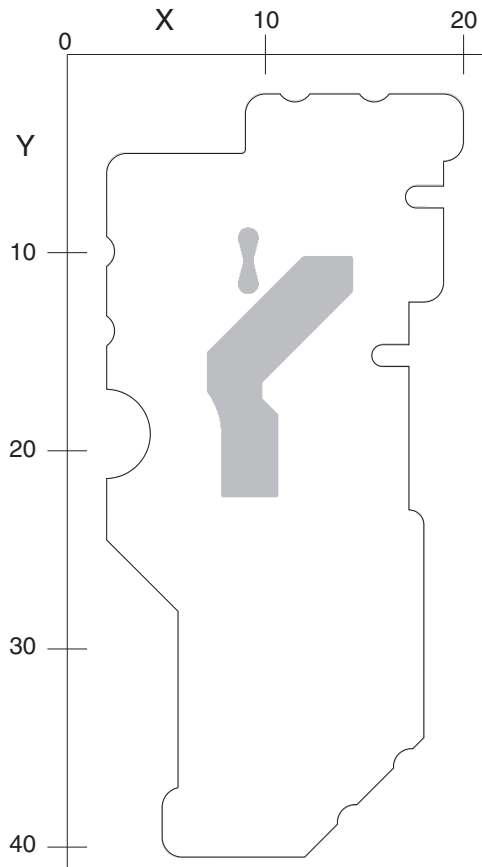
H SW PCB UNIT

SIDE A



H SW PCB UNIT

SIDE B



12. ELECTRICAL PARTS LIST

NOTE:

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

Chip Resistor

RS1/○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

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

Circuit Symbol and No.

Part No.

A:AVH-X7700BT/XNUC
 B:AVH-X7700BT/XNEW5
 C:AVH-X7700BT/XNUW5

D:AVH-X7750BT/XNRC
 E:AVH-X7750BT/XNRD
 F:AVH-X7750TV/XNRD

G:AVH-X7750BT/XNRI

Unit Number: CWN8784(A)

Unit Number: CWN8782(B)

Unit Number: CWN8783(C)

Unit Number: CWN8785(D)

Unit Number: CWN8787(E)

Unit Number: CWN8786(F)

Unit Number: CWN8788(G)

Unit Name : Mother Unit

Unit Number: CWN9246

Unit Name : Monitor Unit

Unit Number: CWX4606

Unit Name : DVD Core Unit(MS7.2)

Unit Number: CWX4034

Unit Name : Compound Unit(A)

Unit Number: CWX3394

Unit Name : Compound Unit(B)

Unit Number: CWN8792

Unit Name : Keyboard Unit

Unit Number: EWX2008

Circuit Symbol and No.

Part No.

Unit Name : Main PCB Unit

Unit Number : EWX2009

Unit Name : SW PCB Unit

A

Unit Number: CWN8784(A)

Unit Number: CWN8782(B)

Unit Number: CWN8783(C)

Unit Number: CWN8785(D)

Unit Number: CWN8787(E)

Unit Number: CWN8786(F)

Unit Number: CWN8788(G)

Unit Name : Mother Unit

MISCELLANEOUS

IC 101	(B,165,22) Regulator IC	NJW4181U3-33B
IC 111	(A,82,110) Regulator IC	NJW4184DL3-08A
IC 141	(B,162,30) Regulator IC	MM3479A33P
IC 160	(A,157,26) Regulator IC	RP132J001B-AE
IC 211	(B,40,109) IC	BA00DD0WHFP
IC 231	(B,159,37) Regulator IC	MM1856A50N
IC 241	(B,105,24) Regulator IC	MM3479A18P
IC 271	(A,76,91) Regulator IC	MM1856A58N
IC 301	(B,149,76) IC	AN33012UA
IC 351	(B,129,51) DC/DC CONV IC	KBD9876EFJ
IC 401	(A,134,28) Flash Blank UC IC	MN103LF15RXW
IC 601	(A,91,65) AS IC	MN1AA9010Z
IC 603	(B,160,99) And Logic IC	MC74VHC1GT08DFG
IC 851	(B,81,50) RAM IC	M12L2561616A-5TG2S
IC 871	(B,109,55)Serial Flash Memory IC	MX25L1606EM2I-12G
IC 881	(B,111,65) FLASH Memory IC	S99-50389P
IC 891	(B,113,44) IC	337S3959
IC 901	(A,107,35) IC	AK8814VQ
IC 1101	(B,116,105) IC	AK4223VQ
IC 1201	(B,51,86) AUD DSP SYS LSI	PM9014A

5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
IC 1271	(B,75,108) OP AMP IC	NJW1240V		D 2201	(A,11,34) Diode	EZAEG2A50AX	
IC 1301	(A,31,134) Power AMP IC	PA2032A		D 2202	(A,18,25) Diode	EZAEG2A50AX	
IC 2004	(B,59,33) Regulator IC	MM3479A33P		D 2203	(A,27,18) Diode	EZAEG2A50AX	A
IC 2201	(A,39,24) Tuner IC	TEF6686HN		D 2204	(A,44,24) Diode	DZ2S068C	
IC 2401	(B,146,102) DC/DC CONV IC	AN33014UA		D 2401	(B,141,104) Diode	RB060M-30	
IC 2551	(B,34,44) Logic IC	TC7SZ32FUS1		D 2402	(B,144,113) Diode	1SR154-400	
IC 2601	(A,58,77) Interface IC	BU8254KVT		D 3052	(B,100,119) Diode	DZ2S180C	
IC 3001	(A,18,79) Logic IC	74VHCT08AFT		D 3053	(B,106,121) Diode	DZ2S180C	
IC 3101	(B,155,119) Interface IC	STCC2540IQ		D 3054	(B,106,124) Diode	DZ2S180C	
IC 3221	(A,141,118) Comparator IC	TC75S57FU		D 3055	(B,105,125) Diode	DZ2S180C	
IC 3231	(A,145,124) V AMP IC	BH7673G		D 3056	(B,106,128) Diode	DZ2S180C	
IC 3232	(A,148,124) V AMP IC	BH7673G		D 3057	(B,99,128) Diode	DZ2S180C	
IC 3233	(A,152,124) V AMP IC	BH7673G		D 3058	(B,100,125) Diode	DZ2S180C	
IC 3234	(A,155,124) V AMP IC	BH7673G		D 3091	(A,90,113) Diode	DZ2J039M0	B
Q 11	(A,107,141) Chip Transistor	HN1C01FU		D 3101	(A,164,123) Diode	EZAEG2A50AX	
Q 21	(B,93,124) Resistor Built-IN TR	LTC014EEB		D 3102	(A,166,123) Diode	EZAEG2A50AX	
Q 31	(B,73,153) Resistor Built-IN TR	LTC014EEB		D 3271	(A,116,127) Diode	DZ2S068C	
Q 51	(B,93,141) Bipolar TR	LSAR523UB		D 3272	(A,115,127) Diode	DZ2S068C	
Q 61	(B,93,146) Bipolar TR	LSAR523UB		L 1	(A,89,133) Choke Coil 600 uH	CTH1221	
Q 131	(B,30,111) Transistor	2SAR293PGZE		L 2	(A,144,89) Choke Coil 10 uH	CTH1486	
Q 136	(B,25,111) Bipolar TR	LSCR523UB		L 301	(A,155,62) Choke Coil 7 uH	CTH1381	
Q 221	(B,24,84) Transistor	UMF5N		L 302	(A,142,60) SMD SPL Inductor	CTH1519	
Q 301	(A,154,78) Power MOS FET	ATP112-H		L 351	(A,134,56) SMD SPL Inductor	CTH1524	
Q 302	(A,143,75) Power MOS FET	ATP112-H		L 700	(A,76,80) Chip Beads	VTL1127	
Q 401	(B,132,23) Bipolar TR	LSCR523UB		L 701	(A,73,77) Chip Beads	VTL1126	C
Q 402	(B,129,28) Chip Transistor(D,E,F,G)	RN4982		L 702	(A,71,77) Chip Beads	VTL1126	
Q 403	(B,132,28) Chip Transistor(D,E,F,G)	RN4982		L 703	(A,73,76) Chip Beads	VTL1126	
Q 404	(B,134,33) Chip Transistor(D,E,F,G)	RN4982		L 704	(A,71,75) Chip Beads	VTL1126	
Q 405	(B,131,33) Chip Transistor(D,E,F,G)	RN4982		L 705	(A,73,75) Chip Beads	VTL1126	
Q 821	(A,117,72) Bipolar TR	LSCR523UB		L 706	(A,71,74) Chip Beads	VTL1126	
Q 892	(B,105,46) Bipolar TR	LSAR523UB		L 707	(A,73,74) Chip Beads	VTL1126	
Q 931	(A,121,64) Bipolar TR	LSCR523UB		L 708	(A,71,73) Chip Beads	VTL1126	
Q 932	(A,119,67) Bipolar TR	LSCR523UB		L 709	(A,73,72) Chip Beads	VTL1126	
Q 933	(A,118,69) Bipolar TR	LSCR523UB		L 710	(A,71,72) Chip Beads	VTL1126	
Q 1271	(A,75,103) Resistor Built-IN TR	LTC014EEB		L 711	(A,73,71) Chip Beads	VTL1126	D
Q 1301	(B,27,120) Chip Transistor	RN1903		L 712	(A,71,71) Chip Beads	VTL1126	
Q 1303	(B,31,117) Bipolar TR	LSCR523UB		L 713	(A,73,70) Chip Beads	VTL1126	
Q 3091	(A,98,112) Chip Transistor	2SD2114K		L 714	(A,71,69) Chip Beads	VTL1126	
Q 3092	(A,92,111) Transistor	RN4984		L 715	(A,73,69) Chip Beads	VTL1126	
Q 3093	(A,94,111) Transistor	RN4984		L 716	(A,71,68) Chip Beads	VTL1126	
Q 3141	(A,135,122) Chip Transistor	HN1B04FU		L 717	(A,73,68) Chip Beads	VTL1126	
D 1	(B,77,150) Diode	1SR154-400		L 718	(A,71,67) Chip Beads	VTL1126	
D 2	(B,77,153) Diode	1SR154-400		L 719	(A,73,66) Chip Beads	VTL1126	
D 3	(A,136,92) Diode	RB080L-30		L 750	(A,79,45) Chip Beads	VTL1128	
D 11	(A,101,142) Diode	DZ2J062M0		L 851	(B,70,60) Inductor	CTF1786	
D 12	(A,98,138) Diode	DZ2J068M0		L 852	(A,81,44) Chip Beads	VTL1128	E
D 21	(B,90,123) Diode	DA2J101		L 871	(B,102,58) Inductor	CTF1786	
D 32	(B,71,153) Diode	DZ2J056M0		L 881	(B,104,59) Inductor	CTF1786	
D 41	(B,49,118) Diode	CRG03		L 882	(A,110,62) Inductor	CTF1740	
D 51	(B,89,140) Diode	DA2J101		L 901	(A,114,38) Inductor	ATL7039	
D 61	(B,89,147) Diode	DA2J101		L 902	(B,115,37) Inductor	ATL7039	
D 101	(A,159,41) Diode	D1F60-5053		L 903	(A,108,57) Chip Beads	VTL1126	
D 211	(B,54,112) Diode	1SR154-400		L 904	(A,99,44) Chip Beads	VTL1126	
D 301	(A,153,71) Diode	RB056L-40		L 905	(A,99,46) Chip Beads	VTL1126	
D 302	(A,143,67) Diode	RB056L-40		L 906	(A,98,44) Chip Beads	VTL1126	
D 351	(A,134,50) Diode	RB056L-40		L 907	(A,97,46) Chip Beads	VTL1126	
D 401	(A,120,16) Diode	DB2J31400		L 908	(A,97,44) Chip Beads	VTL1126	F
D 403	(B,124,26) Diode	DB2J31400		L 909	(A,96,46) Chip Beads	VTL1126	
D 1301	(B,24,116) Diode	DA2J101		L 910	(A,96,44) Chip Beads	VTL1126	
D 1302	(B,35,119) Diode	DZ2J082M0					

	1	2	3	4
	<u>Circuit Symbol and No.</u>	<u>Part No.</u>	<u>Circuit Symbol and No.</u>	<u>Part No.</u>
	L 911 (A,95,43) Chip Beads	VTL1126	RESISTORS	
	L 1201 (B,60,86) Ferrite Bead	CTF1528	R 11 (A,104,142)	RS1/16SS103J
	L 1202 (B,43,86) Ferrite Bead	CTF1528	R 12 (A,104,141)	RS1/16SS473J
A	L 2201 (A,45,32) Inductor	CTF1749	R 13 (A,98,142)	RS1/16SS472J
	L 2202 (A,49,27) Inductor	CTF1786	R 16 (A,103,138)	RS1/16SS104J
	L 2203 (A,30,17) Inductor	LCYC150K1608	R 17 (A,102,138)	RS1/16SS473J
	L 2204 (A,25,17) Inductor	CTF1389	R 18 (A,89,147)	RS1/4SA102J
	L 2205 (A,20,25) Inductor	LCMAR27J1608	R 21 (B,91,122)	RS1/16SS103J
	L 2207 (A,23,24) Chip Coil	LCTAWR22J2520	R 22 (B,87,122)	RS1/16SS472J
	L 2401 (A,141,102) SMD SPL Inductor	CTH1524	R 23 (B,85,122)	RS1/4SA102J
	L 2402 (B,141,100) Inductor	CTF1793	R 31 (B,69,150)	RS1/4SA102J
	L 2601 (B,52,60) Chip Ferrite Bead	BTX1047	R 32 (B,69,154)	RS1/16SS103J
	L 2602 (A,55,87) Chip Solid Inductor	XTL3010	R 51 (B,96,140)	RS1/16SS102J
	L 2603 (B,54,68) Chip Solid Inductor	XTL3010	R 52 (B,94,140)	RS1/16SS473J
B	L 3101 (B,162,121) Coil	ATH7015	R 53 (B,91,143)	RS1/16SS223J
	L 3231 (A,155,117) Inductor	ATL7015	R 54 (B,88,143)	RS1/16SS103J
	L 3236 (A,106,136) Ferrite Bead	CTF1528	R 61 (B,93,148)	RS1/16SS223J
	L 3237 (A,99,136) Ferrite Bead	CTF1528	R 62 (B,95,142)	RS1/16SS102J
	L 3238 (A,107,132) Ferrite Bead	CTF1528	R 63 (B,94,142)	RS1/16SS473J
	L 3239 (A,98,132) Ferrite Bead	CTF1528	R 64 (B,88,144)	RS1/16SS103J
	L 3240 (A,107,130) Ferrite Bead	CTF1528	R 131 (B,23,112)	RS1/16SS273J
	L 3241 (A,97,130) Ferrite Bead	CTF1528	R 132 (B,25,108)	RS1/8SQ122J
	L 3242 (A,107,127) Ferrite Bead	CTF1528	R 133 (B,22,111)	RS1/16SS272J
	L 3243 (A,97,127) Ferrite Bead	CTF1528	R 139 (B,33,111)	RS1/16SS102J
C	L 3244 (A,107,126) Ferrite Bead	CTF1528	R 160 (A,154,35)	RS1/16SS5601D
	L 3245 (A,98,126) Ferrite Bead	CTF1528	R 161 (A,153,33)	RS1/16SS1202D
	L 3246 (A,107,125) Ferrite Bead	CTF1528	R 211 (B,48,107)	RS1/16SS2201D
	L 3247 (A,98,124) Ferrite Bead	CTF1528	R 212 (B,49,106)	RS1/16SS2702D
	L 3248 (A,98,123) Ferrite Bead	CTF1528	R 213 (B,50,106)	RS1/16SS4701D
	L 3249 (A,107,123) Ferrite Bead	CTF1528	R 221 (B,24,81)	RS1/16SS473J
	L 3250 (A,98,122) Ferrite Bead	CTF1528	R 222 (B,23,82)	RS1/16SS102J
	L 3251 (A,107,122) Ferrite Bead	CTF1528	R 301 (B,140,74)	RS1/16SS561J
	L 3252 (A,107,121) Ferrite Bead	CTF1528	R 302 (B,141,75)	RS1/16SS3302D
	L 3253 (A,99,119) Ferrite Bead	CTF1528	R 303 (B,141,73)	RS1/16SS4301D
	L 3271 (A,115,124) Chip Beads	VTL1126	R 304 (B,141,72)	RS1/16SS3601D
D	L 3272 (A,116,124) Chip Beads	VTL1126	R 305 (B,141,76)	RS1/16SS273J
	X 401 (A,135,13) Crystal Resonator 12.500 MHz	CSS1839	R 306 (B,153,71)	RS1/16SS103J
	X 601 (A,110,79) Resonator 24 MHz	CSS1773	R 308 (B,151,82) 11 mohm	CCN1341
	X 2201 (A,38,34) Crystal Resonator 9.216 MHz	CSS1867	R 309 (B,151,71)	RS1/16SS204J
	△ P131 (A,12,111) Fuse 0.75 A	CEK1380	R 310 (B,152,71)	RS1/16SS394J
	P 2201 (A,11,36) Variable Coil	IMSA-6803-01Y900	R 311 (B,142,81) 12 mohm	CCN1321
	△ P3001 (A,37,89) Fuse 0.75 A	CEK1380	R 312 (B,147,71)	RS1/16SS224J
	P 3052 (A,96,117) Poly Switch	FSMD075-24R	R 313 (B,156,75)	RS1/16SS472J
	P 3054 (A,110,127) Poly Switch	FSMD075-24R	R 314 (B,156,72)	RS1/16SS1101D
	P 3055 (B,136,127) Poly Switch	FSMD075-24R	R 315 (B,158,72)	RS1/16SS3000D
	P 3281 (A,132,127) Poly Switch	FSMD075-24R	R 316 (B,156,74)	RS1/16SS1002D
E	CN131 (A,13,105) Connector	CKS4822	R 317 (B,157,73)	RS1/16SS511J
	CN2201 (A,7,85) Clamper	CEF1046	R 322 (B,149,71)	RS1/16SS473J
	CN2551 (A,24,57) Connector	CKS6025	R 323 (B,155,71)	RS1/16SS473J
	CN2901 (A,91,26) B TO B Connector	CKS6346	R 351 (B,122,49)	RS1/16SS4701D
	CN3001 (A,34,93) FFC/FPC Connector	CKS6672	R 352 (B,124,49)	RS1/16SS4702D
	CN3051 (A,102,127) Plug	CKM1599	R 353 (B,124,48)	RS1/16SS2202D
	CN3121 (B,120,19) FFC/FPC Connector	CKS6638	R 354 (B,123,48)	RS1/16SS332J
	CN3141 (A,147,138) Connector	CKS4497	R 360 (A,120,56)	RS1/8SQ331J
	CN3201 (A,122,109) FFC/FPC Connector(F)	CKS4497	R 401 (A,122,16)	RS1/16SS472J
	JA1 (A,65,147) Connector	CKM1613	R 402 (A,123,17)	RS1/16SS102J
F	JA3101 (A,165,127) USB Jack	CKN1097	R 403 (A,122,15)	RS1/16SS103J
	JA3271 (A,117,139) Jack	CKN1101	R 405 (A,126,15)	RS1/16SS471J
	JA3281 (A,128,138) 3.5 DIA Jack	CKS6437	R 406 (A,128,15)	RS1/16SS473J
	VL2201 (A,29,24) Variable Coil	CTC1216		

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 407	(A,127,15)	RS1/16SS471J		R 486	(A,117,37)	RS1/16SS104J	
R 408	(B,130,21)	RS1/16SS473J		R 493	(A,118,34)	RS1/16SS103J	
R 409	(A,118,25)	RS1/16SS105J		R 494	(A,121,33)	RS1/16SS221J	
R 410	(A,121,24)	RS1/16SS471J		R 495	(B,126,30)	RS1/16SS104J	A
R 411	(A,131,9)	RS1/16SS472J		R 496	(A,118,32)	RS1/16SS103J	
R 412	(A,131,10)	RS1/16SS472J		R 497	(A,121,32)	RS1/16SS221J	
R 413	(B,145,33)	RS1/16SS473J		R 499	(B,123,30)	RS1/16SS104J	
R 414	(B,133,25)	RS1/16SS473J		R 500	(B,123,29)	RS1/16SS104J	
R 415	(B,130,15)	RS1/16SS473J		R 501	(A,121,30)	RS1/16SS101J	
R 417	(B,133,18)	RS1/16SS104J		R 502	(A,121,28)	RS1/16SS221J	
R 418	(B,134,18)	RS1/16SS102J		R 503	(A,121,27)	RS1/16SS221J	
R 419	(A,135,15)	RS1/16SS0R0J		R 504	(A,121,25)	RS1/16SS221J	
R 420	(B,136,24)	RS1/16SS102J		R 506	(A,131,41)	RS1/16SS0R0J	
R 421	(B,137,26)	RS1/16SS104J		R 507	(A,118,30)	RS1/16SS473J	
R 422	(A,141,15)	RS1/16SS473J		R 508	(B,123,28)	RS1/16SS103J	B
R 423	(B,139,17)	RS1/16SS473J		R 509	(A,121,26)	RS1/16SS104J	
R 424	(A,141,13)	RS1/16SS121J		R 510	(A,121,37)	RS1/16SS473J	
R 425	(A,142,15)	RS1/16SS104J		R 511	(B,115,27)	RS1/16SS471J	
R 426	(A,142,14)	RS1/16SS121J		R 512	(B,115,26)	RS1/16SS472J	
R 430	(A,151,20)	RS1/16SS102J		R 513	(B,115,24)	RS1/16SS471J	
R 431	(A,150,21)	RS1/16SS473J		R 514	(B,115,25)	RS1/16SS472J	
R 433	(A,147,23) (F)	RS1/16SS104J		R 515	(B,127,21)	RS1/16SS221J	
R 435	(B,144,16)	RS1/16SS473J		R 518	(A,148,18)	RS1/16SS0R0J	
R 436	(A,151,32)	RS1/16SS182J		R 519	(B,130,25) (D,E,F,G)	RS1/16SS6800D	
R 437	(A,147,24)	RS1/16SS0R0J		R 524	(B,130,31) (D,E,F,G)	RS1/16SS8201D	C
R 439	(A,151,30)	RS1/16SS182J		R 525	(B,129,33) (D,E,F,G)	RS1/16SS8201D	
R 440	(A,147,31)	RS1/16SS104J		R 526	(B,129,25) (A,B,C)	RS1/16SS102J	
R 441	(A,147,25)	RS1/16SS0R0J		R 526	(B,129,25) (D,E,F,G)	RS1/16SS1001D	
R 442	(A,147,28) (F)	RS1/16SS471J		R 602	(B,117,51)	RS1/10SR0R0J	
R 443	(A,147,29) (F)	RS1/16SS471J		R 603	(A,107,51)	RS1/16SS473J	
R 444	(A,150,28) (F)	RS1/16SS473J		R 605	(A,108,50)	RS1/16SS473J	
R 445	(A,147,32)	RS1/16SS104J		R 611	(A,112,54) (F)	RS1/16SS0R0J	
R 447	(B,126,27) (A,B,C)	RS1/16SS102J		R 612	(A,112,56) (F)	RS1/16SS0R0J	
R 447	(B,126,27) (D,E,F,G)	RS1/16SS1001D		R 613	(A,112,55) (F)	RS1/16SS473J	
R 448	(B,126,28) (D,E,F,G)	RS1/16SS6800D		R 616	(B,100,57)	RS1/16SS473J	
R 450	(A,130,14)	RS1/16SS0R0J		R 619	(B,109,73)	RS1/16SS0R0J	D
R 453	(A,148,33)	RS1/16SS101J		R 620	(B,103,68)	RS1/16SS1R0J	
R 457	(A,144,42)	RS1/16SS822J		R 621	(B,100,72)	RS1/16SS1R0J	
R 458	(A,143,41)	RS1/16SS471J		R 622	(A,109,73)	RS1/16SS0R0J	
R 460	(A,139,43)	RS1/16SS473J		R 623	(A,110,75)	RS1/16SS0R0J	
R 463	(B,135,39)	RS1/16SS104J		R 625	(B,104,77)	RS1/16SS473J	
R 464	(B,134,39)	RS1/16SS473J		R 627	(B,105,77)	RS1/16SS473J	
R 465	(A,137,42)	RS1/16SS473J		R 628	(B,107,75)	RS1/16SS0R0J	
R 466	(A,147,26)	RS1/16SS222J		R 629	(A,108,78)	RS1/16SS105J	
R 467	(A,130,43)	RS1/16SS104J		R 630	(A,110,77)	RS1/16SS102J	
R 468	(B,132,39)	RS1/16SS473J		R 631	(A,111,85)	RS1/16SS102J	
R 471	(B,130,36)	RS1/16SS221J		R 632	(A,105,84)	RS1/16SS0R0J	E
R 472	(B,129,36)	RS1/16SS221J		R 633	(A,103,84)	RS1/16SS0R0J	
R 474	(B,128,36)	RS1/16SS221J		R 636	(A,111,87)	RS1/16SS104J	
R 475	(A,126,42)	RS1/16SS221J		R 637	(A,107,84)	RS1/16SS473J	
R 476	(A,125,42)	RS1/16SS221J		R 639	(A,106,84)	RS1/16SS473J	
R 477	(B,127,39)	RS1/16SS104J		R 641	(B,102,79)	RS1/16SS103J	
R 478	(A,124,41)	RS1/16SS221J		R 642	(B,102,82)	RS1/16SS103J	
R 479	(A,124,40)	RS1/16SS104J		R 643	(A,98,84)	RS1/16SS4701D	
R 480	(A,119,40) (F,G)	RS1/16SS104J		R 644	(A,97,85)	RS1/16SS1201D	
R 481	(A,121,40) (B,C,D,E)	RS1/16SS104J		R 645	(A,97,86)	RS1/16SS0R0J	
R 482	(A,118,39) (D,E,F)	RS1/16SS104J		R 646	(B,161,95)	RS1/16SS0R0J	
R 483	(A,120,39) (B,C,G)	RS1/16SS104J		R 651	(B,93,74)	RS1/16SS0R0J	F
R 484	(A,117,38) (C,E,F)	RS1/16SS104J		R 653	(B,95,72)	RS1/16SS101J	
R 485	(A,119,38) (B,D,G)	RS1/16SS104J		R 654	(B,94,72)	RS1/16SS101J	

	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 685 (B,119,56)	RS1/10SR0R0J	R 860 (B,85,42)	RS1/16SS181J
	R 686 (B,162,97)	RS1/16SS473J	R 861 (B,81,60)	RS1/16SS101J
	R 687 (B,159,101)	RS1/16SS103J	R 862 (B,87,42)	RAB4CQ181J
A	R 688 (B,161,101)	RS1/16SS473J	R 863 (B,90,42)	RAB4CQ181J
	R 701 (A,73,80)	RS1/16SS241J	R 872 (A,111,60)	RS1/16SS0R0J
	R 703 (A,75,78)	RS1/16SS473J	R 873 (A,112,58)	RS1/16SS0R0J
	R 704 (A,70,77)	RS1/16SS271J	R 877 (B,103,54)	RS1/16SS101J
	R 705 (A,68,77)	RS1/16SS271J	R 878 (B,103,53)	RS1/16SS101J
	R 706 (A,70,76)	RS1/16SS271J	R 882 (B,104,61)	RS1/16SS101J
	R 707 (A,68,75)	RS1/16SS271J	R 883 (B,104,62)	RS1/16SS0R0J
	R 708 (A,70,75)	RS1/16SS271J	R 884 (B,104,65)	RS1/16SS101J
	R 709 (A,68,74)	RS1/16SS271J	R 885 (B,104,66)	RS1/16SS101J
	R 710 (A,70,74)	RS1/16SS271J	R 886 (A,111,62)	RS1/16SS271J
	R 711 (A,68,73)	RS1/16SS271J	R 887 (A,110,63)	RS1/16SS101J
B	R 712 (A,70,72)	RS1/16SS271J	R 888 (B,118,67)	RS1/16SS101J
	R 713 (A,68,72)	RS1/16SS271J	R 892 (B,102,47)	RS1/16SS473J
	R 714 (A,70,71)	RS1/16SS271J	R 893 (B,104,43)	RS1/16SS183J
	R 715 (A,68,71)	RS1/16SS271J	R 895 (B,116,45)	RS1/16SS222J
	R 716 (A,70,70)	RS1/16SS271J	R 896 (B,110,42)	RS1/16SS222J
	R 717 (A,68,69)	RS1/16SS271J	R 897 (B,108,44)	RS1/16SS220J
	R 718 (A,70,69)	RS1/16SS271J	R 898 (B,110,44)	RS1/16SS222J
	R 719 (A,68,68)	RS1/16SS271J	R 902 (A,110,57)	RS1/16SS820J
	R 720 (A,70,68)	RS1/16SS271J	R 904 (A,102,40)	RS1/16SS103J
	R 721 (A,68,67)	RS1/16SS271J	R 906 (A,99,41)	RS1/16SS561J
	R 726 (A,70,64)	RS1/16SS0R0J	R 908 (A,99,43)	RS1/16SS561J
C	R 727 (A,72,63)	RS1/16SS0R0J	R 910 (A,98,41)	RS1/16SS561J
	R 729 (A,70,66)	RS1/16SS271J	R 912 (A,97,43)	RS1/16SS561J
	R 736 (B,82,63)	RS1/16SS472J	R 914 (A,97,41)	RS1/16SS561J
	R 739 (A,80,45)	RS1/16SS330J	R 916 (A,96,43)	RS1/16SS561J
	R 741 (A,73,64)	RS1/16SS0R0J	R 918 (A,96,41)	RS1/16SS561J
	R 792 (A,81,46)	RS1/16SS330J	R 920 (A,95,41)	RS1/16SS561J
	R 793 (A,79,41)	RS1/16SS472J	R 921 (A,104,30)	RS1/16SS103J
	R 794 (B,82,61)	RS1/16SS472J	R 922 (A,104,29)	RS1/16SS271J
	R 795 (B,83,61)	RS1/16SS472J	R 923 (A,104,28)	RS1/16SS271J
	R 797 (B,84,61)	RS1/16SS472J	R 924 (A,107,28)	RS1/16SS181J
D	R 798 (B,85,61)	RS1/16SS472J	R 925 (A,106,28)	RS1/16SS103J
	R 805 (A,92,40)	RS1/16SS473J	R 926 (A,107,29)	RS1/16SS103J
	R 806 (A,94,46)	RS1/16SS473J	R 930 (A,114,30)	RS1/10SR0R0J
	R 813 (B,102,46)	RS1/16SS472J	R 931 (A,115,35)	RS1/16SS6801D
	R 814 (A,102,45)	RS1/16SS0R0J	R 932 (B,107,39)	RS1/16SS104J
	R 815 (A,103,43)	RS1/16SS473J	R 933 (B,106,39)	RS1/16SS104J
	R 816 (A,103,45)	RS1/16SS0R0J	R 934 (A,112,28)	RS1/16SS0R0J
	R 821 (A,117,74)	RS1/16SS103J	R 935 (A,127,64)	RS1/16SS0R0J
	R 822 (A,120,73)	RS1/16SS0R0J	R 936 (A,127,66)	RS1/16SS0R0J
	R 823 (A,123,75)	RS1/16SS104J	R 937 (A,125,71)	RS1/16SS0R0J
	R 824 (A,120,75)	RS1/16SS153J	R 938 (B,120,62)	RS1/16SS0R0J
E	R 825 (A,115,73)	RS1/16SS471J	R 941 (A,117,65)	RS1/16SS471J
	R 827 (B,95,60)	RS1/16SS0R0J	R 944 (A,117,67)	RS1/16SS471J
	R 828 (B,94,54)	RS1/16SS0R0J	R 947 (A,116,69)	RS1/16SS471J
	R 829 (A,117,75)	RS1/16SS0R0J	R 950 (A,114,64)	RS1/16SS0R0J
	R 841 (B,136,29)	RAB4CQ103J	R 951 (A,114,66)	RS1/16SS0R0J
	R 851 (B,75,60)	RAB4CQ101J	R 952 (A,113,69)	RS1/16SS0R0J
	R 852 (B,79,60)	RAB4CQ101J	R 960 (A,117,41)	RS1/16SS0R0J
	R 853 (B,83,58)	RAB4CQ181J	R 970 (A,102,31)	RS1/16SS222J
	R 854 (B,86,58)	RAB4CQ181J	R 971 (A,102,28)	RS1/16SS222J
	R 855 (B,90,58)	RAB4CQ181J	R 1111 (B,122,96) (F)	RS1/16SS75R0D
F	R 856 (B,73,42)	RAB4CQ101J	R 1112 (B,120,93)	RS1/16SS75R0D
	R 857 (B,78,42)	RAB4CQ101J	R 1113 (B,118,93)	RS1/16SS75R0D
	R 858 (B,80,41)	RS1/16SS121J	R 1114 (B,116,95)	RS1/16SS104J
	R 859 (B,84,42)	RS1/16SS181J	R 1115 (B,114,94)	RS1/16SS75R0D

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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 1116	(B,112,94)	RS1/16SS2200D		R 2405	(B,152,96)	RS1/16SS224J	
R 1117	(B,110,101)	RS1/16SS0R0J		R 2406	(B,147,94)	RS1/16SS1202D	
R 1118	(B,111,99)	RS1/16SS75R0D		R 2407	(B,154,108)	RS1/16SS152J	
R 1119	(B,115,95)	RS1/16SS101J		R 2408	(B,154,107)	RS1/16SS3302D	A
R 1120	(B,114,95)	RS1/16SS101J		R 2409	(B,151,104)	RS1/16SS8201D	
R 1121	(B,117,90)	RS1/16SS0R0J		R 2410	(A,154,109)	RS1/16SS102J	
R 1122	(B,118,94)	RS1/16SS101J		R 2413	(B,146,94)	RS1/16SS394J	
R 1123	(B,117,94)	RS1/16SS101J		R 2414	(B,145,96)	RS1/16SS204J	
R 1124	(B,120,95)	RS1/16SS101J		R 2416	(B,147,96)	RS1/16SS0R0J	
R 1125	(B,119,95)	RS1/16SS101J		R 2420	(B,149,95)	RS1/16SS104J	
R 1131	(B,126,106)	RS1/16SS101J		R 2421	(A,150,105) 0.039 ohm	CCN1325	
R 1132	(B,126,108)	RS1/16SS101J		R 2552	(B,23,47)	RS1/10SR0R0J	
R 1133	(B,126,109)	RS1/16SS101J		R 2556	(B,23,49)	RS1/10SR0R0J	
R 1134	(B,118,114)	RS1/16SS101J		R 2557	(B,23,46)	RS1/10SR0R0J	
R 1135	(B,117,114)	RS1/16SS101J		R 2560	(B,23,45)	RS1/10SR0R0J	B
R 1136	(B,115,114)	RS1/16SS101J		R 2564	(B,25,65)	RS1/16SS471J	
R 1141	(B,122,100) (C,D,E,G)	RS1/16SS0R0J		R 2565	(B,28,64)	RS1/16SS102J	
R 1142	(B,112,95)	RS1/10SR0R0J		R 2566	(B,28,63)	RS1/16SS221J	
R 1143	(B,110,100)	RS1/16SS470J		R 2567	(B,28,62)	RS1/16SS221J	
R 1144	(B,122,98) (C,D,E,G)	RS1/16SS104J		R 2568	(B,25,61)	RS1/16SS221J	
R 1145	(B,122,97) (C,D,E,G)	RS1/16SS101J		R 2569	(B,25,60)	RS1/16SS221J	
R 1146	(B,123,98) (F)	RS1/16SS0R0J		R 2571	(B,26,56)	RS1/16SS0R0J	
R 1147	(B,120,97) (F)	RS1/16SS0R0J		R 2572	(B,29,52)	RS1/8SQ221J	
R 1148	(B,120,99) (A,B)	RS1/16SS0R0J		R 2601	(A,67,79)	RS1/16SS0R0J	
R 1149	(B,122,101) (A,B)	RS1/16SS0R0J		R 2602	(A,66,80)	RS1/16SS0R0J	C
R 1214	(B,49,100)	RS1/16SS0R0J		R 2607	(B,52,68)	RS1/16SS153J	
R 1215	(B,50,101)	RS1/16SS0R0J		R 2609	(B,64,76)	RS1/16SS473J	
R 1228	(B,53,78)	RS1/16SS0R0J		R 2901	(B,90,29)	RS1/16SS102J	
R 1271	(A,73,104)	RS1/16SS103J		R 2906	(B,87,22)	RS1/16SS101J	
R 1272	(B,70,110)	RS1/16SS684J		R 2908	(B,85,27)	RS1/16SS102J	
R 1286	(B,64,110)	RS1/16SS100J		R 2912	(A,97,21)	RS1/16SS271J	
R 1287	(B,68,109)	RS1/16SS102J		R 2913	(A,96,22)	RS1/16SS271J	
R 1301	(B,25,117)	RS1/16SS683J		R 2915	(A,96,24)	RS1/16SS271J	
R 1302	(B,25,119)	RS1/16SS683J		R 2917	(A,97,26)	RS1/16SS0R0J	
R 1303	(B,29,121)	RS1/16SS152J		R 2918	(A,98,29)	RS1/16SS222J	
R 1304	(B,29,122)	RS1/16SS101J		R 2919	(A,98,26)	RS1/16SS0R0J	D
R 1306	(B,23,120)	RS1/16SS103J		R 2920	(A,96,31)	RS1/16SS102J	
R 1308	(B,27,117)	RS1/16SS103J		R 2921	(A,96,32)	RS1/16SS102J	
R 1309	(B,34,117)	RS1/16SS104J		R 3004	(A,26,83)	RS1/16SS0R0J	
R 1310	(B,35,117)	RS1/16SS473J		R 3059	(B,103,132)	RS1/16SS223J	
R 1314	(B,19,120)	RS1/16SS473J		R 3060	(B,106,133)	RS1/16SS223J	
R 1315	(B,17,118)	RS1/16SS102J		R 3061	(B,103,130)	RS1/16SS223J	
R 1316	(B,21,120)	RS1/16SS0R0J		R 3062	(B,108,129)	RS1/16SS223J	
R 2009	(B,57,36)	RS1/16SS102J		R 3063	(A,107,138)	RS1/16SS223J	
R 2204	(A,41,30)	RS1/16SS103J		R 3064	(A,107,136)	RS1/16SS223J	
R 2206	(A,41,29)	RS1/16SS103J		R 3071	(B,109,127)	RS1/16SS223J	
R 2207	(A,45,29)	RS1/16SS272J		R 3072	(B,107,126)	RS1/16SS223J	E
R 2208	(A,46,28)	RS1/16SS272J		R 3073	(B,107,123)	RS1/16SS223J	
R 2209	(A,42,27)	RS1/16SS0R0J		R 3074	(B,107,121)	RS1/16SS223J	
R 2210	(A,43,26)	RS1/16SS0R0J		R 3076	(B,94,121)	RS1/10SR0R0J	
R 2212	(A,30,15)	RS1/16SS391J		R 3091	(A,97,109)	RS1/16SS152J	
R 2213	(A,20,18)	RS1/16SS105J		R 3092	(A,96,112)	RS1/16SS103J	
R 2214	(A,23,18)	RS1/16SS105J		R 3093	(A,89,110)	RS1/16SS122J	
R 2242	(B,40,31)	RS1/16SS0R0J		R 3105	(B,152,118)	RS1/16SS102J	
R 2243	(A,34,24)	RS1/16SS0R0J		R 3106	(B,152,122)	RS1/16SS103J	
R 2244	(A,34,23)	RS1/16SS0R0J		R 3107	(B,152,120)	RS1/16SS103J	
R 2401	(B,150,109)	RS1/16SS752J		R 3108	(B,152,119)	RS1/16SS103J	F
R 2402	(A,154,110)	RS1/16SS102J		R 3109	(B,158,118)	RS1/16SS2402D	
R 2403	(A,154,111)	RS1/16SS102J		R 3122	(B,117,24)	RS1/16SS272J	
R 2404	(A,154,108)	RS1/16SS102J		R 3141	(B,153,134)	RAB4CQ750J	

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

R 3142 (A,138,123)
R 3143 (A,138,121)
R 3144 (A,133,122)
R 3145 (A,131,122)
R 3146 (A,132,121)

RS1/16SS562J
RS1/16SS332J
RS1/16SS103J
RS1/16SS103J
RS1/10SR222J

C 114 (A,70,112)
C 115 (A,72,108) 4.7 uF
C 131 (B,21,113)
C 132 (A,15,114)

CKSRYB104K50
CCG1222
CKSSYB103K16
CEVW100M16

R 3147 (B,121,124)
R 3148 (B,120,123)
R 3149 (B,120,121)
R 3150 (A,144,128)
R 3151 (A,140,128)

RS1/16SS223J
RS1/16SS223J
RS1/16SS562J
RS1/16SS102J
RS1/16SS102J

C 133 (B,22,113)
C 141 (B,159,31)
C 142 (B,158,29)
C 143 (B,166,29)
C 160 (A,157,33) 2.2 uF

CKSSYB103K16
CKSRYB105K10
CKSRYB105K10
CKSSYB104K10
CCG1218

R 3152 (A,137,128)
R 3153 (A,135,128)
R 3157 (B,121,121)
R 3158 (B,121,120)
R 3168 (B,152,128)

RS1/16SS471J
RS1/16SS471J
RS1/16SS272J
RS1/16SS272J
RS1/16SS103J

C 161 (A,156,35) 2.2 uF
C 211 (B,48,110) 1 uF
C 212 (A,55,111)
C 221 (B,24,87)
C 231 (B,162,37)

CCG1218
CCG1393
CEVW101M16
CKSSYB104K10
CKSRYB105K10

R 3204 (A,119,98) (F)
R 3205 (A,129,102) (F)
R 3207 (A,124,98) (F)
R 3211 (A,121,101) (F)
R 3212 (A,119,97) (F)

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

C 232 (B,158,41)
C 241 (B,105,20)
C 242 (B,103,20)
C 243 (B,105,27)
C 271 (A,76,88)

CKSRYB105K10
CKSRYB105K10
CKSRYB105K10
CKSSYB104K10
CKSRYB105K16

R 3213 (A,116,100) (F)
R 3214 (A,116,101) (F)
R 3217 (A,117,101) (F)
R 3221 (A,145,118)
R 3222 (A,140,123)

RS1/16SS0R0J
RS1/16SS0R0J
RS1/16SS473J
RS1/16SS0R0J
RS1/16SS271J

C 272 (A,78,93)
C 301 (B,141,74)
C 302 (B,141,77)
C 303 (B,143,76)
C 304 (B,155,75)

CKSRYB105K16
CCSSCH471J50
CKSSYB472K50
CCSSCH8R0D50
CCSSCH8R0D50

R 3223 (A,140,122)
R 3224 (A,143,118)
R 3225 (A,142,120)
R 3226 (A,139,118)
R 3227 (A,139,120)

RS1/16SS684J
RS1/16SS1802D
RS1/16SS1302D
RS1/16SS682J
RS1/16SS103J

C 305 (B,156,76)
C 306 (B,156,73)
C 307 (A,149,56)
C 308 (A,149,55)
C 309 (A,149,51) 10 uF

CKSSYB103K16
CCSSCH102J50
CKSSYB102K50
CKSSYB104K10
CCG1236

R 3229 (B,149,129)
R 3231 (A,154,121)
R 3232 (A,151,121)
R 3233 (A,147,121)
R 3289 (A,109,132)

RS1/16SS0R0J
RS1/16SS101J
RS1/16SS101J
RS1/16SS101J
RS1/10SR0R0J

C 310 (A,149,53) 10 uF
C 311 (A,155,54) 47 uF
C 316 (B,154,71)
C 319 (B,155,77)
C 320 (B,142,78)

CCG1236
CCG1229
CKSSYB104K10
CKSSYB104K16
CKSSYB104K16

R 3300 (A,97,121)

RS1/10SR0R0J

C 321 (B,144,71)
C 322 (B,143,74)
C 324 (A,143,49) 47 uF
C 325 (A,143,54) 10 uF
C 326 (A,143,52) 10 uF

CKSSYB104K10
CKSRYB105K10
CCG1229
CCG1192
CCG1192

CAPACITORS

C 1 (B,73,151)
C 4 (A,169,69) 3300 u/16 V
C 5 (B,160,87) 10 uF
C 6 (B,158,87)
C 9 (A,169,65)

CKSRYB104K50
CCH2027
CCG1236
CKSSYB102K50
XCEAT102M16

C 327 (A,143,55)
C 328 (A,143,56)
C 330 (B,147,82)
C 331 (B,148,81)
C 334 (B,151,87) 10 uF

CKSSYB104K10
CKSSYB102K50
CKSRYB473K50
CKSSYB102K50
CCG1236

C 12 (B,60,149)
C 13 (B,55,132)
C 14 (B,58,149)
C 15 (B,54,132)
C 16 (B,55,149)

CCSSCH102J50
CCSSCH102J50
CCSSCH102J50
CCSSCH102J50
CCSSCH102J50

C 351 (A,127,54)
C 352 (A,118,56)
C 353 (A,122,56) 10 uF
C 356 (B,124,47)
C 357 (B,129,56)

CEVLW470M16
CKSSYB103K16
CCG1192
CKSSYB682K25
CKSSYB103K16

C 17 (B,53,132)
C 18 (B,53,149)
C 19 (B,52,132)
C 21 (B,92,124)
C 41 (B,56,118)

CCSSCH102J50
CCSSCH102J50
CCSSCH102J50
CKSRYB105K10
CKSSYB104K16

C 358 (B,134,52) 10 uF
C 359 (B,132,54)
C 401 (A,132,12)
C 402 (A,136,15)
C 403 (A,139,14)

CCG1236
CKSRYB103K50
CCSSCH100D50
CCSSCH120J50
CKSRYB105K10

C 101 (A,169,42)
C 102 (B,166,26)
C 103 (B,162,26)
C 104 (A,156,11)
C 111 (A,72,112)

XCEAT331M16
CKSRYB104K50
CKSSYB104K10
CEVW470M16
CKSQYB105K25

C 404 (A,139,15)
C 405 (B,135,22)
C 406 (B,135,20)
C 407 (B,134,23)
C 408 (A,149,21)

CKSSYB104K10
CKSRYB105K10
CKSSYB104K10
CKSSYB102K50
CKSSYB104K10

C 112 (A,73,108)

CKSSYB104K16

C 409 (A,147,35)

CKSSYB104K10

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 410	(A,148,35)	CKSRYB105K10	C 647	(A,95,47)	CKSSYB104K10
C 414	(A,133,40)	CKSSYB104K10	C 648	(A,99,48)	CKSSYB104K10
C 415	(A,133,41)	CKSRYB105K10	C 649	(A,103,48)	CKSSYB104K10
C 419	(B,159,24) 0.1 uF	CCG1321	C 651	(B,111,50) 0.1 uF	CCG1321
C 420	(B,158,24)	CKSSYB103K16	C 654	(B,159,102)	CKSRYB105K10
C 421	(B,157,24)	CCSSCH102J50	C 655	(B,159,97)	CKSSYB104K10
C 422	(A,121,22)	CKSSYB104K10	C 656	(B,113,50)	CCSRCH102J50
C 423	(A,120,22)	CKSRYB105K10	C 657	(B,122,53) 0.1 uF	CCG1321
C 424	(B,127,23)	CKSSYB104K10	C 658	(B,122,52)	CCSRCH102J50
C 425	(A,121,19)	CKSSYB104K10	C 661	(B,122,56) 10 uF	DCH1201
C 427	(B,126,16)	CKSSYB104K10	C 664	(B,114,50) 10 uF	DCH1201
C 429	(B,113,23)	CKSSYB104K10	C 700	(A,79,47)	CCSSCH120J50
C 430	(B,114,23)	CKSSYB104K10	C 821	(A,121,73) 10 uF	CCG1192
C 432	(B,127,25)	CKSSYB104K10	C 823	(A,111,72)	CKSRYB105K10
C 433	(B,127,26)	CKSSYB104K10	C 824	(A,111,73)	CKSRYB105K10
C 436	(B,127,24)	CKSSYB104K10	C 851	(B,70,57)	CKSSYB104K10
C 437	(A,150,31)	CKSSYB104K10	C 852	(B,70,58)	CKSSYB104K10
C 438	(A,149,30)	CKSSYB104K10	C 853	(B,77,58)	CKSSYB104K10
C 601	(A,108,55)	CKSSYB104K10	C 854	(B,81,58)	CKSSYB104K10
C 602	(A,109,55)	CKSRYB104K16	C 855	(B,92,58)	CKSSYB104K10
C 603	(A,108,58)	CKSSYB104K10	C 856	(A,78,43)	CKSSYB104K10
C 604	(A,108,60)	CKSSYB104K10	C 857	(A,76,47)	CKSSYB104K10
C 605	(A,107,62)	CKSSYB104K10	C 858	(A,81,43)	CCSSCH8R0D50
C 606	(A,107,67)	CKSSYB104K10	C 871	(B,103,57)	CKSSYB104K10
C 607	(B,102,69)	CKSRYB105K10	C 882	(B,108,59)	CKSSYB104K10
C 608	(A,107,71)	CKSSYB104K10	C 891	(B,105,43)	CKSSYB104K10
C 609	(B,102,72)	CKSRYB105K10	C 892	(B,111,46)	CKSSYB104K10
C 610	(A,107,74)	CKSSYB104K10	C 893	(B,109,44)	CKSSYB103K16
C 611	(A,108,75)	CKSSYB104K10	C 901	(A,116,55)	CCSSCH560J50
C 612	(A,109,76)	CKSSYB104K10	C 902	(A,113,40) 10 uF	CCG1192
C 613	(A,112,77)	CCSSCH120J50	C 903	(A,101,36)	CKSSYB104K10
C 614	(A,108,81)	CCSSCH100D50	C 904	(A,109,29)	CKSSYB103K16
C 616	(A,110,87)	CKSSYB104K10	C 905	(A,113,32)	CKSSYB103K16
C 617	(A,103,82)	CKSSYB104K10	C 906	(A,115,34) 10 uF	CCG1192
C 618	(A,102,82)	CKSSYB104K10	C 907	(A,113,34)	CKSSYB103K16
C 619	(B,99,76) 1 uF	DCH1246	C 908	(A,115,32) 10 uF	CCG1192
C 620	(B,97,76) 1 uF	DCH1246	C 909	(A,113,36)	CKSSYB103K16
C 621	(A,97,82)	CKSSYB104K10	C 910	(A,108,41)	CKSSYB104K10
C 622	(A,96,82)	CKSSYB104K10	C 912	(A,106,41)	CKSSYB104K10
C 624	(A,94,82)	CKSSYB104K10	C 938	(A,111,64)	CKSRYB105K10
C 625	(A,93,81)	CKSSYB104K10	C 939	(A,111,65)	CKSRYB105K10
C 626	(A,88,82)	CKSSYB104K10	C 940	(A,111,67)	CKSRYB105K10
C 627	(A,87,82)	CKSSYB104K10	C 941	(A,111,68)	CKSRYB105K10
C 628	(A,81,81)	CKSSYB104K10	C 942	(A,111,69)	CKSRYB105K10
C 629	(A,80,82)	CKSSYB104K10	C 943	(A,111,71)	CKSRYB105K10
C 631	(B,79,75)	CKSSYB104K10	C 1101	(B,124,105)	CKSRYB105K10
C 632	(B,79,72)	CKSSYB104K10	C 1102	(B,123,104)	CKSSYB104K10
C 633	(B,79,71)	CKSSYB104K10	C 1106	(B,119,97)	CKSSYB104K10
C 634	(A,75,63)	CKSSYB104K10	C 1108	(B,119,98)	CKSSYB104K10
C 635	(B,79,67)	CKSSYB104K10	C 1110	(B,118,97)	CKSSYB104K10
C 636	(A,74,59)	CKSSYB104K10	C 1112	(B,117,98) (A,B,C,D,E,F,G)	CKSSYB104K10
C 637	(A,73,57)	CKSRYB104K16		(B,117,98) (F)	CKSRYB105K10
C 638	(A,74,53)	CKSRYB104K16	C 1114	(B,116,97)	CKSSYB104K10
C 639	(A,79,48)	CKSRYB104K16	C 1115	(B,118,112)	CKSRYB105K10
			C 1116	(B,116,98)	CKSSYB104K10
C 641	(A,82,48)	CKSRYB104K16	C 1117	(B,117,112)	CKSRYB105K10
C 642	(A,85,48)	CKSRYB104K16	C 1118	(B,115,97)	CKSSYB104K10
C 643	(A,86,47)	CKSSYB104K10	C 1119	(B,115,112)	CKSRYB105K10
C 644	(A,88,47)	CKSRYB104K16	C 1120	(B,114,98)	CKSSYB104K10
C 645	(A,91,48)	CKSRYB104K16	C 1121	(B,114,112) (F)	CKSRYB105K10
C 646	(A,94,48)	CKSSYB104K10			

	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 1122 (B,114,97)	CKSSYB104K10		
	C 1123 (B,112,112) (F)	CKSRYB105K10	C 1304 (A,29,123)	CKSRYB474K16
	C 1124 (B,113,98)	CKSSYB104K10	C 1305 (A,37,124)	CKSRYB474K16
A	C 1125 (B,111,112) (F)	CKSRYB105K10	C 1306 (A,21,118)	CKSQYB225K16
	C 1126 (B,112,97)	CKSSYB104K10	C 1307 (A,20,121)	CCG1291
	C 1127 (B,105,100) 10 uF	CCG1192	C 1308 (B,54,121)	CKSRYB104K50
	C 1128 (B,109,102)	CKSSYB104K10	C 1313 (A,68,126) 4700 uF/16 V	CCH2085
	C 1129 (B,108,100)	CKSSYB104K10	C 1315 (A,20,125) 0.1 uF	CCG1311
	C 1132 (B,107,106) 10 uF	CCG1192	C 1316 (B,24,114) 10 uF	CCG1192
	C 1133 (B,105,102) 10 uF	CCG1192	C 1318 (A,26,123)	CKSQYB474K25
	C 1134 (B,123,101) (C,D,E,F,G)	CKSSYB104K10	C 1319 (A,32,124)	CKSQYB474K25
	C 1135 (B,110,99)	CCSSCH271J50	C 1320 (A,19,123) 4.7 uF	CCG1291
	C 1136 (B,124,109)	CKSRYB105K10	C 2010 (B,62,32)	CKSRYB105K10
	C 1137 (B,124,108)	CKSRYB105K10	C 2011 (B,55,30)	CKSRYB105K10
B	C 1138 (B,124,106)	CKSRYB105K10	C 2017 (B,62,35)	CKSSYB104K10
	C 1202 (A,69,100)	CEVW470M16	C 2202 (A,47,34)	CKSSYB104K10
	C 1203 (A,66,93)	CKSSYB104K10	C 2203 (A,43,34)	CKSSYB104K10
	C 1206 (A,55,101)	CEVW470M16	C 2204 (A,44,35) 10 uF	DCH1201
	C 1208 (B,42,95)	CKSRYB105K10	C 2205 (A,48,25) 10 uF	DCH1201
	C 1209 (B,44,95)	CKSRYB105K10	C 2206 (A,35,27)	CKSSYB104K10
	C 1210 (B,44,98)	CKSRYB105K10	C 2208 (A,35,26)	CKSSYB224K6R3
	C 1211 (B,46,98)	CKSRYB105K10	C 2209 (A,34,26)	CKSSYB102K50
	C 1212 (B,47,98)	CKSRYB105K10	C 2210 (A,35,22)	CKSSYB104K10
	C 1213 (B,48,98)	CKSRYB105K10	C 2212 (A,22,25)	CCSSCH220J50
	C 1214 (B,50,98)	CKSRYB105K10	C 2213 (A,21,22)	CCSSCH271J50
C	C 1215 (B,51,98)	CKSRYB105K10	C 2216 (A,43,24)	CKSSYB104K10
	C 1216 (B,52,98)	CKSRYB105K10	C 2219 (A,33,17)	CCSSCH102J50
	C 1217 (B,53,98)	CKSRYB105K10	C 2220 (A,22,17)	CCSSCH471J50
	C 1218 (B,53,95)	CKSRYB105K10	C 2224 (A,38,19)	CKSSYB152K50
	C 1219 (B,55,95)	CKSRYB105K10	C 2234 (A,17,25)	CCSSCH100D50
	C 1220 (B,56,95)	CKSRYB105K10	C 2238 (B,46,28)	CCSSCH101J50
	C 1223 (A,62,103)	CEVW470M16	C 2239 (B,47,26)	CCSSCH101J50
	C 1224 (B,57,73) 10 uF	CCG1332	C 2401 (B,149,109)	CKSSYB222K50
	C 1225 (A,67,89)	CKSSYB104K10	C 2402 (B,150,107)	CCSSCH270J50
	C 1226 (A,71,91)	CEVW470M16	C 2403 (B,143,96)	CKSSYB104K16
	C 1228 (B,55,78)	CKSSYB104K10	C 2404 (A,143,110)	CEVLW470M16
D	C 1229 (B,48,78)	CKSSYB104K10	C 2405 (A,153,99)	CEVW101M16
	C 1231 (B,42,87)	CCSSCH151J50	C 2406 (B,151,101)	CKSRYB105K10
	C 1234 (B,61,89)	CCSSCH151J50	C 2407 (B,152,95)	CKSSYB102K50
	C 1235 (B,42,89)	CKSSYB102K50	C 2408 (B,152,97)	CKSRYB472K25
	C 1236 (B,60,89)	CKSSYB102K50	C 2409 (B,152,98)	CKSSYB104K16
	C 1237 (A,75,96) 0.1 uF	CCG1311	C 2410 (B,152,108)	CCSSCH681J50
	C 1238 (A,82,92) 0.1 uF	CCG1311	C 2412 (B,147,107) 0.1 uF	CCG1286
	C 1271 (A,82,102) 1 uF	CCG1255	C 2414 (A,154,107)	CKSSYB104K10
	C 1272 (B,67,102) 1 uF	CCG1325	C 2415 (A,146,103) 22 uF	CCG1254
	C 1273 (B,63,103) 1 uF	CCG1325	C 2551 (B,34,45)	CKSSYB104K10
E	C 1274 (B,67,104) 1 uF	CCG1325	C 2601 (B,51,62) 10 uF	DCH1201
	C 1275 (B,63,106) 1 uF	CCG1325	C 2604 (B,53,71)	CKSSYB103K16
	C 1276 (B,67,107) 1 uF	CCG1325	C 2605 (B,53,72)	CKSSYB104K10
	C 1277 (B,68,115) 1 uF	CCG1255	C 2606 (B,51,65)	CKSSYB104K10
	C 1278 (B,64,113) 1 uF	CCG1255	C 2607 (B,51,66)	CKSSYB103K16
	C 1279 (B,62,113) 1 uF	CCG1255	C 2608 (B,58,79)	CKSSYB103K16
	C 1280 (B,76,115) 1 uF	CCG1255	C 2609 (B,58,80)	CKSSYB104K10
	C 1281 (A,78,102)	CKSRYB683K50	C 2610 (A,55,84)	CKSSYB104K10
	C 1282 (A,80,102) 1 uF	CCG1255	C 2611 (A,55,85)	CKSSYB103K16
	C 1283 (B,61,109) 1 uF	CCG1325	C 2902 (B,90,23) 4.7 uF	CCG1201
F	C 1284 (B,44,86)	CKSSYB103K16	C 2904 (B,91,26) 4.7 uF	CCG1201
	C 1285 (B,59,86)	CKSSYB103K16	C 2905 (B,88,25)	CKSSYB104K10
	C 1301 (B,30,119) 4.7 uF	CCG1201	C 2906 (B,86,29)	CKSSYB104K10
	C 1302 (A,24,123)	CKSRYB103K50	C 2909 (A,97,28)	CKSRYB105K10
	C 1303 (A,34,124)	CKSRYB103K50	C 2916 (A,111,22)	CEVLW221M4

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Circuit Symbol and No.

6
Part No.

7
Circuit Symbol and No.

8
Part No.

C 3001	(B,35,90) 10 uF	CCG1192
C 3003	(A,61,93)	CEVW101M16
C 3006	(A,20,74)	CKSSYB104K10
C 3051	(A,110,131)	CCSSCH101J50
C 3052	(B,100,126)	CKSRYB104K50
C 3053	(B,101,122) (A,B,C,D,E,G) (B,101,122) (F)	CKSRYB104K50 CKSRYB105K16
C 3054	(B,105,126) 2.2 uF	CCG1218
C 3055	(B,86,119) 4.7 uF	CCG1201
C 3056	(B,86,113) 4.7 uF	CCG1201
C 3057	(B,89,118) 4.7 uF	CCG1201
C 3058	(B,89,112) 4.7 uF	CCG1201
C 3059	(B,86,116) 4.7 uF	CCG1201
C 3060	(B,89,114) 4.7 uF	CCG1201
C 3061	(B,106,122) 2.2 uF	CCG1218
C 3062	(B,101,120)	CCSSCH101J50
C 3063	(B,98,129)	CCSSCH101J50
C 3064	(B,101,123)	CCSSCH101J50
C 3065	(B,100,115)	CCSSCH101J50
C 3066	(B,98,118)	CCSSCH560J50
C 3067	(A,113,125)	CCSSCH560J50
C 3091	(A,90,111)	CKSRYB471K50
C 3101	(B,168,121) 10 uF	DCH1201
C 3102	(B,157,116)	CKSSYB104K10
C 3147	(A,132,119)	CKSSYB102K50
C 3148	(A,140,126)	CKSSYB102K50
C 3149	(A,142,124)	CKSSYB102K50
C 3150	(A,137,126)	CCSSCH180J50
C 3151	(A,135,126)	CCSSCH180J50
C 3153	(A,142,129)	CKSSYB102K50
C 3154	(B,155,133)	CCSSCH101J50
C 3221	(A,142,118)	CKSSYB104K10
C 3222	(A,143,120)	CKSSYB104K10
C 3231	(A,149,121)	CKSSYB104K10
C 3232	(A,156,119) 10 uF	CCG1192
C 3233	(A,156,121)	CKSSYB104K10
C 3234	(A,152,121)	CKSSYB104K10
C 3235	(A,145,121)	CKSSYB104K10
C 3236	(A,145,127)	CKSRYB105K10
C 3237	(A,146,127)	CKSRYB105K10
C 3238	(A,148,127)	CKSRYB105K10
C 3239	(A,149,127)	CKSRYB105K10
C 3240	(A,151,127)	CKSRYB105K10
C 3241	(A,153,127)	CKSRYB105K10
C 3242	(A,154,127)	CKSRYB105K10
C 3243	(A,156,127)	CKSRYB105K10
C 3271	(A,115,122)	CCSSCH221J50
C 3272	(A,116,121)	CCSSCH221J50
C 3281	(A,128,127)	CCSRCH101J50
C 3282	(A,129,125)	CCSRCH101J50

IC 5301	(A,39,55) IC	TC7SH08FUS1
IC 5401	(A,51,65) Interface IC	BU90R104
Q 5201	(A,75,105) Resistor Built-IN TR	LTC024EEB
Q 5202	(A,66,98) Transistor	2SAR502UB
Q 5301	(A,98,74) Bipolar TR	LSAR523UB
Q 5302	(A,100,78) Bipolar TR	LSCR523UB
D 5101	(A,118,82) Diode	RB060M-30
D 5102	(A,103,59) Diode	CRG03
D 5201	(A,81,94) Schottky Diode	RB162M-40
D 5202	(A,69,100) Schottky Diode	DB3S308F0
D 5203	(A,72,100) Schottky Diode	DB3S308F0
D 5204	(A,71,106) Schottky Diode	DB3S308F0
L 5102	(A,112,79) Inductor	ATH7068
L 5201	(A,86,95) Choke Coil 22 uH	CTH1426
L 5301	(A,57,36) Inductor	CTF1635
L 5303	(A,40,51) Ferrite Bead	CTF1528
L 5304	(A,38,52) Chip Beads	VTL1126
L 5401	(A,41,52) Chip Beads	VTL1126
L 5402	(A,42,57) Chip Beads	VTL1126
L 5403	(A,42,52) Chip Beads	VTL1126
L 5404	(A,43,57) Chip Beads	VTL1126
L 5405	(A,44,53) Chip Beads	VTL1126
L 5406	(A,44,57) Chip Beads	VTL1126
L 5407	(A,43,60) Chip Beads	VTL1127
L 5408	(A,45,52) Chip Beads	VTL1126
L 5409	(A,46,56) Chip Beads	VTL1126
L 5410	(A,47,53) Chip Beads	VTL1126
L 5411	(A,47,56) Chip Beads	VTL1126
L 5412	(A,48,53) Chip Beads	VTL1126
L 5413	(A,49,53) Chip Beads	VTL1126
L 5414	(A,51,54) Chip Beads	VTL1126
L 5415	(A,51,57) Chip Beads	VTL1126
L 5416	(A,52,54) Chip Beads	VTL1126
L 5417	(A,53,57) Chip Beads	VTL1126
L 5418	(A,53,54) Chip Beads	VTL1126
L 5419	(A,54,57) Chip Beads	VTL1126
L 5420	(A,60,73) Chip Solid	XTL3010
L 5421	(A,58,73) Chip Solid	XTL3010
L 5422	(A,62,76) Chip Ferrite Bead	BTX1047
L 5428	(A,42,67) Chip Beads	VTL1126
TH5001	(A,123,22) Thermistor	CCX1084
CN5001	(A,131,32) FFC/FPC Connerctor	CKS6625
CN5002	(A,132,88) Connector	CKS4428
CN5003	(A,99,52) FFC/FPC Connerctor	CKS6514
CN5301	(A,37,42) FFC/FPC Connerctor	CKS6672

RESISTORS

R 5006	(A,128,46)	RS1/16SS221J
R 5010	(A,129,44)	RS1/16SS621J
R 5011	(A,131,44)	RS1/16SS181J
R 5012	(A,133,46)	RS1/16SS620J
R 5033	(A,125,23)	RS1/16SS183J
R 5104	(A,117,65)	RS1/16SS104J
R 5105	(A,115,65)	RS1/16SS104J
R 5106	(A,117,77)	RS1/16SS102J
R 5107	(A,115,70)	RS1/16SS223J
R 5109	(A,116,68)	RS1/16SS563J
R 5110	(A,119,68)	RS1/16SS104J
R 5111	(A,120,68)	RS1/16SS101J

B

Unit Number : CWN9246
Unit Name : Monitor Unit

MISCELLANEOUS

IC 5001	(A,130,47) Interface IC	AK4187VN
IC 5101	(A,118,73) Display IC	OZ527ILN
IC 5201	(A,83,101) C/DC CONV IC	R1290K103A

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Circuit Symbol and No.

R 5112 (A,123,75)
 R 5113 (A,123,74)
 R 5114 (A,124,74)

2

Part No.

RS1/16SS102J
 RS1/16SS1202D
 RS1/16SS1202D

3

Circuit Symbol and No.

R 5406 (A,44,55)
 R 5407 (A,40,60)
 R 5408 (A,45,51)

4

Part No.

RS1/16SS221J
 RS1/16SS101J
 RS1/16SS221J

A

R 5119 (A,128,75)
 R 5121 (A,126,74)
 R 5123 (A,117,79)
 R 5201 (A,75,104)
 R 5202 (A,79,104)

RS1/16SS105J
 RS1/16SS154J
 RS1/8SQ2R2J
 RS1/16SS8201D
 RS1/16SS6800D

R 5409 (A,46,55)
 R 5410 (A,47,51)
 R 5411 (A,47,55)
 R 5412 (A,48,51)
 R 5413 (A,49,51)

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

R 5203 (A,77,104)
 R 5206 (A,78,102)
 R 5207 (A,78,101)
 R 5208 (A,90,103)
 R 5209 (A,91,102)

RS1/16SS1502D
 RS1/16SS9102D
 RS1/16SS1802D
 RS1/16SS203J
 RS1/16SS104J

R 5414 (A,51,52)
 R 5415 (A,51,56)
 R 5416 (A,52,52)
 R 5417 (A,53,56)
 R 5418 (A,53,52)

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

B

R 5210 (A,64,97)
 R 5211 (A,80,105)
 R 5212 (A,78,99)
 R 5213 (A,79,99)
 R 5214 (A,82,92)

RS1/16SS103J
 RS1/16SS472J
 RS1/16SS1003D
 RS1/16SS9101D
 RS1/8SQ2R2J

R 5419 (A,54,56)
 R 5420 (A,53,74)
 R 5422 (A,60,68)
 R 5423 (A,61,66)
 R 5424 (A,60,64)

RS1/16SS221J
 RS1/16SS103J
 RS1/16SS1000D
 RS1/16SS1000D
 RS1/16SS1000D

R 5216 (A,88,105)
 R 5217 (A,86,105)
 R 5218 (A,86,107)
 R 5219 (A,88,104)
 R 5231 (A,76,99)

RS1/16SS3303D
 RS1/16SS5601D
 RS1/16SS3902D
 RS1/10SR472J
 RS1/16SS103J

R 5425 (A,62,61)
 R 5426 (A,59,60)
 R 5433 (A,40,67)
 R 5434 (A,54,77)
 R 5435 (A,56,73)

RS1/16SS1000D
 RS1/16SS1000D
 RS1/16SS221J
 RS1/16SS473J
 RS1/16SS103J

C

R 5232 (A,71,110)
 R 5301 (A,26,65)
 R 5302 (A,26,63)
 R 5303 (A,27,63)
 R 5304 (A,28,65)

RS1/16SS332J
 RS1/16SS39R0D
 RS1/16SS2R2J
 RS1/16SS1300D
 RS1/16SS47R0D

R 5436 (A,55,75)
 R 5437 (A,54,76)

RS1/16SS221J
 RS1/16SS103J

CAPACITORS

R 5305 (A,28,66)
 R 5307 (A,29,65)
 R 5308 (A,30,64)
 R 5309 (A,31,65)
 R 5310 (A,32,65)

RS1/16SS51R0D
 RS1/16SS39R0D
 RS1/16SS1R2J
 RS1/16SS75R0D
 RS1/16SS1R5J

C 5001 (A,135,38)
 C 5002 (A,134,41)
 C 5003 (A,128,41)
 C 5004 (A,126,38)
 C 5005 (A,127,48) 10 uF

CKSSYB103K16
 CKSSYB103K16
 CKSSYB103K16
 CKSSYB103K16
 CCG1244

D

R 5311 (A,31,62)
 R 5312 (A,32,61)
 R 5313 (A,31,59)
 R 5314 (A,31,57)
 R 5315 (A,32,57)

RS1/16SS1300D
 RS1/16SS75R0D
 RS1/16SS82R0D
 RS1/16SS200J
 RS1/16SS47R0D

C 5006 (A,129,52) 10 uF
 C 5007 (A,130,51)
 C 5008 (A,128,48)
 C 5015 (A,123,21)
 C 5016 (A,123,23)

CCG1244
 CKSSYB104K10
 CKSSYB104K10
 CKSSYB104K10
 CKSSYB104K10

R 5317 (A,32,54)
 R 5319 (A,30,52)
 R 5321 (A,30,50)
 R 5323 (A,17,45)
 R 5325 (A,52,48)

RS1/16SS56R0D
 RS1/16SS1800D
 RS1/16SS82R0D
 RS1/16SS473J
 RS1/16SS473J

C 5101 (A,106,61) 10 uF
 C 5103 (A,110,70) 10 uF
 C 5104 (A,110,72) 10 uF
 C 5105 (A,115,66)
 C 5106 (A,114,72)

CCG1236
 CCG1236
 CCG1236
 CKSRYB105K16
 CKSRYB105K16

E

R 5331 (A,101,71)
 R 5333 (A,98,72)
 R 5335 (A,100,75)
 R 5336 (A,99,76)
 R 5337 (A,98,78)

RS1/16SS153J
 RS1/16SS105J
 RS1/16SS153J
 RS1/16SS472J
 RS1/16SS101J

C 5108 (A,117,68)
 C 5109 (A,118,68)
 C 5110 (A,122,80) 10 uF
 C 5113 (A,125,75)
 C 5120 (A,119,79)

CKSRYB105K10
 CCSSCH101J50
 CCG1236
 CKSRYB224K16
 CKSSYB332K50

R 5340 (A,101,76)
 R 5341 (A,99,75)
 R 5342 (A,38,50)
 R 5344 (A,17,43)
 R 5345 (A,17,44)

RS1/16SS273J
 RS1/16SS334J
 RS1/16SS470J
 RS1/16SS473J
 RS1/16SS473J

C 5121 (A,125,98)
 C 5201 (A,84,106)
 C 5203 (A,81,106)
 C 5204 (A,82,106)
 C 5205 (A,75,100)

CCSRCH101J50
 CKSSYB224K6R3
 CKSRYB105K10
 CKSSYB224K6R3
 CKSSYB104K10

F

R 5346 (A,35,48)
 R 5349 (A,34,48)
 R 5401 (A,41,51)
 R 5402 (A,42,55)
 R 5403 (A,42,51)

RS1/16SS473J
 RS1/16SS473J
 RS1/16SS221J
 RS1/16SS221J
 RS1/16SS221J

C 5206 (A,79,91)
 C 5207 (A,87,101)
 C 5208 (A,71,108)
 C 5209 (A,90,101)
 C 5210 (A,70,97)

CKSSYB472K50
 CKSSYB102K50
 CKSRYB105K16
 CKSRYB105K10
 CKSQYB105K25

R 5404 (A,43,55)
 R 5405 (A,44,51)

RS1/16SS221J
 RS1/16SS221J

C 5212 (A,72,97)
 C 5213 (A,73,106)

CKSQYB105K25
 CKSRYB104K50

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5		6		7		8	
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>	
				Unit Name : DVD Core Unit(MS7.2)			
				MISCELLANEOUS			
C 5214	(A,69,102)	CKSRYB104K50		IC 1004	(B,85,53) IC	NJM2885DL1-33	
C 5215	(A,72,102)	CKSRYB104K50		IC 1005	(B,88,63) IC	R1232D121B	
C 5217	(A,68,94)	CKSYB475K16		IC 1201	(A,27,14) IC	BD8217EFV	
C 5218	(A,80,107)	CKSSYB682K25		IC 1401	(B,64,34) Flash ROM Unit	CWW8456	
C 5219	(A,88,99) 4.7 uF	CCG1212		IC 1402	(A,86,19) Flash ROM Unit	CWW8457	
C 5220	(A,75,102)	CKSSYB103K16		IC 1480	(B,63,12) RAM IC	M12L64164A-5TG2Y	
C 5221	(A,78,100)	CKSSYB561K50		IC 1501	(A,62,20) IC	MN2DS0018MA	
C 5222	(A,77,95)	CKSYB475K16		IC 1801	(B,44,16) D/A Converter	PCM1753DBQ	
C 5224	(A,86,104)	CKSSYB681K50		IC 1900	(B,38,9) IC	S-1200B50-M5	
C 5302	(A,25,61) 4.7 uF	CCG1222		IC 1901	(B,73,58) Regulator IC	S-1133B50-U5	
C 5304	(A,28,68)	CKSSYB104K16		Q 1101	(B,64,50) Transistor	LSCR523UB	
C 5306	(A,30,68)	CKSSYB104K16		Q 1102	(B,68,48) Transistor	LSCR523UB	
C 5308	(A,32,68)	CKSSYB104K16		Q 1103	(B,64,55) Transistor	2SB1132	
C 5309	(A,33,64)	CKSSYB102K50		Q 1104	(B,64,43) Transistor	2SB1132	
C 5310	(A,33,63)	CKSRYB105K16		L 1003	(B,83,60) Inductor	CTF1757	
C 5311	(A,34,61)	CKSSYB102K50		L 1004	(B,85,69) Inductor	CTF1295	
C 5312	(A,34,60)	CKSSYB104K10		L 1500	(A,45,14) Inductor	CTF1387	
C 5314	(A,32,58)	CKSSYB104K10		L 1512	(A,59,5) Inductor	CTF1743	
C 5316	(A,34,55)	CKSSYB104K10		L 1900	(A,92,69) Inductor	CTF1487	
C 5318	(A,34,53)	CKSSYB104K10		L 1901	(A,84,69) Inductor	CTF1558	
C 5320	(A,32,50)	CKSRYB105K10		L 1902	(A,78,67) Inductor	CTF1734	
C 5321	(A,57,46)	CKSSYB102K50		X 1501	(A,45,10) Resonator 27.000 MHz	CSS1768	
C 5323	(A,57,45)	CKSSYB104K16		F 1900	(A,89,70) Chip EMI Filter	DTF1106	
C 5325	(A,58,43) 10 uF	CCG1236		F 1901	(A,85,71) Chip EMI Filter	DTL1106	
C 5326	(A,57,33)	CKSSYB102K50		CN1101	(A,41,43) Connector	CKS6628	
C 5329	(A,56,49)	CKSSYB102K50		CN1201	(A,25,35) Connector	CKS6640	
C 5330	(A,57,49)	CKSSYB104K10		CN1301	(B,91,11) Connector	CKS5705	
C 5331	(A,59,49) 10 uF	CCG1192		CN1901	(A,74,56) Connector	CKS6025	
C 5334	(A,22,48)	CKSSYB104K16		RESISTORS			
C 5335	(A,20,49) 4.7 uF	CCG1222		R 1101	(B,61,49)	RS1/16SS104J	
C 5337	(A,20,56)	CKSQYB225K16		R 1102	(B,67,50)	RS1/16SS104J	
C 5340	(A,23,51)	CKSQYB334K50		R 1103	(B,67,52)	RS1/16SS391J	
C 5342	(A,30,47) 2.2 uF	CCG1218		R 1104	(B,62,51)	RS1/16SS511J	
C 5343	(A,98,71)	CKSSYB104K10		R 1105	(B,70,48)	RS1/16SS4300F	
C 5344	(A,100,81) 10 uF	CCG1236		R 1106	(B,69,50)	RS1/16SS5600F	
C 5345	(A,39,48)	CCSSCH330J50		R 1109	(B,68,52)	RS1/16SS3R3J	
C 5346	(A,39,52)	CKSSYB104K10		R 1110	(B,60,47)	RS1/16SS3R3J	
C 5347	(A,32,48)	CKSSYB102K50		R 1111	(B,60,57)	RS1/10SR2R2J	
C 5348	(A,53,47)	CKSSYB102K50		R 1112	(B,60,53)	RS1/10SR2R2J	
C 5349	(A,15,45)	CKSRYB105K10		R 1113	(B,69,46)	RS1/10SR3R3J	
C 5401	(A,39,61)	CCSSCH270J50		R 1114	(B,67,43)	RS1/10SR3R9J	
C 5403	(A,49,57)	CKSSYB104K10		R 1115	(B,60,54)	RS1/10SR2R2J	
C 5404	(A,49,58)	CKSSYB103K16		R 1116	(B,60,56)	RS1/10SR2R2J	
C 5405	(A,55,58)	CKSSYB103K16		R 1117	(B,67,44)	RS1/10SR3R9J	
C 5406	(A,55,57)	CKSSYB104K10		R 1118	(B,67,46)	RS1/10SR3R9J	
C 5407	(A,59,71)	CKSSYB103K16		R 1200	(A,33,8)	RS1/16SS753J	
C 5408	(A,60,71)	CKSSYB104K10		R 1201	(A,33,6)	RS1/16SS753J	
C 5409	(A,57,59)	CKSSYB104K10		R 1205	(A,34,20)	RS1/16SS1R0J	
C 5410	(A,57,60)	CKSSYB103K16		R 1210	(B,19,16)	RS1/16SS101J	
C 5414	(A,58,78)	CKSSYB103K16		R 1211	(A,19,12)	RS1/16SS102J	
C 5416	(A,61,79) 10 uF	DCH1201		R 1212	(A,20,11)	RS1/16SS102J	
C 5417	(A,41,66)	CKSSYB104K10		R 1213	(B,23,19)	RS1/10SR1R0J	
C 5418	(A,43,66)	CKSSYB103K16		R 1214	(B,22,19)	RS1/10SR1R0J	
C 5419	(A,51,73)	CKSSYB103K16		R 1215	(B,24,19)	RS1/10SR1R0J	
C 5420	(A,51,74)	CKSSYB104K10		R 1216	(B,27,19)	RS1/10SR1R0J	
C 5421	(A,56,74) 2.2 uF	CCG1205					



Unit Number : CWX4606

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

R 1218 (A,17,10)
R 1219 (A,17,11)
R 1222 (A,19,8)
R 1223 (A,19,7)

RS1/16SS1R0J
RS1/16SS1R0J
RS1/16SS1R0J
RS1/16SS1R0J

R 1541 (A,74,39)
R 1542 (A,76,32)
R 1543 (A,70,37)
R 1544 (A,77,32)

RS1/16SS221J
RS1/16SS104J
RS1/16SS561J
RS1/16SS104J

R 1226 (A,22,26)
R 1303 (B,90,21)
R 1304 (B,89,22)
R 1305 (B,89,23)
R 1306 (B,90,23)

RS1/16SS101J
RS1/16SS0R0J
RS1/16SS563J
RS1/16SS243J
RS1/16SS683J

R 1545 (A,78,19)
R 1546 (A,78,22)
R 1548 (A,77,29)
R 1550 (B,48,25)
R 1551 (B,50,25)

RS1/16SS103J
RS1/16SS103J
RS1/16SS101J
RS1/16SS6801F
RS1/16SS4702F

R 1307 (B,89,21)
R 1314 (B,86,22)
R 1401 (B,75,31)
R 1402 (B,53,29)
R 1405 (B,79,12)

RS1/16SS243J
RAB4CQ822J
RS1/16SS221J
RS1/16SS104J
RS1/16SS104J

R 1556 (A,61,46)
R 1600 (A,44,25)
R 1601 (A,47,23)
R 1602 (A,43,23)
R 1603 (A,42,26)

RS1/16SS472J
RS1/16SS0R0J
RS1/16SS123J
RS1/16SS123J
RN1/16SE1002D

R 1406 (B,80,10)
R 1480 (B,56,20)
R 1481 (B,61,21)
R 1482 (B,65,20)
R 1483 (B,68,20)

RS1/16SS472J
RAB4CQ560J
RAB4CQ560J
RAB4CQ560J
RAB4CQ560J

R 1604 (A,54,37)
R 1605 (A,54,35)
R 1611 (A,47,24)
R 1702 (A,48,20)
R 1704 (A,42,20)

RS1/16SS105J
RS1/16SS105J
RS1/16SS105J
RS1/16SS3002D
RS1/16SS2402D

R 1484 (B,71,20)
R 1485 (B,54,4)
R 1486 (B,59,4)
R 1487 (B,68,4)
R 1488 (B,72,4)

RAB4CQ560J
RAB4CQ560J
RAB4CQ560J
RAB4CQ560J
RAB4CQ560J

R 1705 (A,41,18)
R 1706 (A,42,19)
R 1708 (B,52,22)
R 1801 (B,35,11)
R 1803 (B,38,19)

RS1/16SS1002D
RS1/16SS101J
RS1/16SS2000D
RS1/10SR0R0J
RS1/16SS821J

R 1489 (B,63,5)
R 1490 (B,54,20)
R 1501 (A,47,9)
R 1503 (A,47,11)
R 1504 (A,43,14)

RS1/16SS560J
RS1/16SS560J
RS1/16SS122J
RS1/16SS105J
RS1/16SS100J

R 1804 (B,38,18)
R 1805 (B,32,15)
R 1806 (B,36,15)
R 1905 (A,81,65)
R 1910 (A,79,68)

RS1/16SS821J
RS1/16SS104J
RS1/16SS104J
RS1/16SS101J
RS1/16SS101J

R 1505 (A,48,14)
R 1506 (A,41,15)
R 1507 (A,42,16)
R 1508 (A,46,16)
R 1509 (A,66,37)

RS1/16SS101J
RS1/16SS101J
RS1/16SS101J
RS1/16SS221J
RS1/16SS102J

R 1911 (A,69,48)
R 1915 (A,64,47)

RS1/16SS101J
RS1/16SS0R0J

CAPACITORS

R 1510 (A,66,35)
R 1512 (A,60,4)
R 1513 (A,68,42)
R 1514 (A,68,36)
R 1515 (A,71,38)

RS1/16SS102J
RS1/16SS101J
RS1/16SS103J
RS1/16SS183J
RS1/16SS472J

C 1008 (B,79,61) 10 uF
C 1009 (B,79,63) 10 uF
C 1010 (B,79,54)
C 1011 (B,78,51)
C 1013 (B,84,65) 10 uF

DCH1201
DCH1201
CKSQYB225K10
CKSRYB105K10
DCH1201

R 1516 (A,66,41)
R 1517 (A,78,16)
R 1518 (A,78,24)
R 1519 (A,77,27)
R 1522 (A,66,40)

RS1/16SS104J
RS1/16SS103J
RS1/16SS103J
RS1/16SS102J
RS1/16SS104J

C 1014 (B,83,66) 10 uF
C 1101 (B,70,53) 10 uF
C 1104 (B,61,52)
C 1105 (B,61,47)
C 1106 (B,62,58)

DCH1201
CCG1192
CKSSYB104K10
CKSSYB104K10
CKSSYB103K16

R 1523 (A,67,38)
R 1524 (A,74,41)
R 1525 (A,69,36)
R 1526 (A,70,38)
R 1527 (A,69,34)

RS1/16SS221J
RS1/16SS472J
RS1/16SS223J
RS1/16SS103J
RS1/16SS223J

C 1107 (B,65,41)
C 1108 (A,37,34)
C 1109 (A,39,32)
C 1110 (A,37,36)
C 1111 (A,40,34)

CKSSYB103K16
CKSSYB103K16
CKSRYB224K16
CKSSYB103K16
CKSRYB224K16

R 1528 (A,79,17)
R 1529 (A,77,18)
R 1530 (B,54,27)
R 1531 (A,67,40)
R 1534 (A,74,37)

RS1/16SS103J
RS1/16SS103J
RS1/16SS104J
RS1/16SS391J
RS1/16SS221J

C 1112 (B,60,43)
C 1113 (B,68,56)
C 1201 (B,27,15)
C 1202 (B,28,18)
C 1205 (A,33,22)

CKSYB226K6R3
CKSYB226K6R3
CKSYB475K16
CKSSYB104K16
CKSSYB103K16

R 1535 (A,78,28)
R 1536 (A,72,37)
R 1537 (A,73,40)
R 1538 (A,64,5)
R 1539 (A,79,30)

RS1/16SS101J
RS1/16SS104J
RS1/16SS104J
RS1/16SS104J
RS1/16SS101J

C 1206 (A,36,22)
C 1207 (A,33,18)
C 1208 (A,33,14)
C 1212 (A,32,24)
C 1213 (B,22,25)

CKSRYB104K16
CKSRYB104K16
CKSSYB104K16
CKSSYB104K16
CKSSYB222K50

R 1540 (A,73,39)

RS1/16SS221J

C 1214 (B,22,26)

CKSRYB104K16

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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 1218	(A,19,9)	CKSRYB104K16		C 1617	(A,58,35)	CKSSYB104K10	
C 1219	(A,21,7)	CKSRYB104K16		C 1618	(A,60,37)	CCSSCH101J50	
C 1220	(B,22,11)	CEVW101M16		C 1619	(A,59,35)	CKSSYB562K25	
C 1401	(B,76,30)	CKSSYB103K16		C 1620	(A,60,35)	CKSSYB224K6R3	A
C 1403	(B,52,33)	CKSSYB104K10		C 1621	(A,61,37)	CKSSYB224K6R3	
C 1404	(B,51,35)	CKSQYB475K6R3		C 1622	(A,62,37)	CKSSYB333K16	
C 1408	(B,82,13)	CKSSYB104K10		C 1623	(A,48,32)	CKSRYB105K10	
C 1409	(B,79,14)	CKSQYB475K6R3		C 1624	(A,61,38)	CKSSYB104K10	
C 1480	(B,51,19)	CKSSYB104K10		C 1625	(A,60,38)	CKSSYB104K10	
C 1481	(B,51,20)	CKSSYB104K10		C 1628	(A,47,25)	CKSSYB103K16	
C 1482	(B,59,20)	CKSSYB104K10		C 1700	(A,48,19)	CKSSYB104K10	
C 1484	(B,63,20)	CKSSYB104K10		C 1701	(A,47,18)	CKSSYB104K10	
C 1485	(B,74,21)	CKSSYB104K10		C 1702	(A,41,21)	CKSRYB105K10	
C 1487	(B,62,5)	CKSSYB104K10		C 1703	(A,44,21)	CKSSYB104K10	
C 1488	(B,56,5)	CKSSYB104K10		C 1704	(A,40,20)	CKSSYB104K10	B
C 1489	(B,75,16)	CKSQYB106K6R3		C 1801	(A,82,49)	CKSSYB104K10	
C 1501	(B,47,29)	CKSQYB106K6R3		C 1802	(B,50,14) 10 uF	CCG1192	
C 1502	(B,83,18)	CKSQYB106K6R3		C 1805	(B,38,14)	CKSSYB104K10	
C 1503	(A,62,5)	CKSSYB104K10		C 1808	(B,32,18)	CCSRCH182J50	
C 1504	(A,53,5)	CKSSYB104K10		C 1809	(B,35,18)	CCSRCH182J50	
C 1505	(A,56,5)	CKSSYB104K10		C 1810	(B,33,17)	CKSQYB475K6R3	
C 1506	(A,57,5)	CKSSYB104K10		C 1811	(B,36,17)	CKSQYB475K6R3	
C 1507	(A,65,5)	CKSSYB104K10		C 1901	(B,35,9)	CKSRYB105K10	
C 1508	(A,69,5)	CKSSYB104K10		C 1902	(B,39,6)	CKSRYB105K16	
C 1509	(A,71,5)	CKSSYB104K10		C 1903	(B,33,6)	CKSSYB104K10	C
C 1510	(A,47,8)	CCSSCH120J50		C 1904	(A,70,45)	CCSSCH101J50	
C 1511	(A,48,10)	CKSSYB104K10		C 1905	(A,86,69)	CKSSYB102K50	
C 1512	(A,45,12)	CCSSCH100D50		C 1906	(B,75,62)	CKSSYB104K16	
C 1513	(B,76,10)	CKSSYB104K10		C 1907	(B,70,57) 4.7 uF	CCG1201	
C 1514	(A,48,13)	CKSSYB104K10		C 1908	(A,90,68)	CKSSYB102K50	
C 1515	(A,48,15)	CKSSYB104K10					
C 1516	(B,75,14)	CKSSYB104K10					
C 1517	(A,77,16)	CKSSYB104K10					
C 1518	(B,77,21)	CKSSYB104K10					
C 1519	(A,77,26)	CKSSYB104K10					
C 1520	(A,77,30)	CKSSYB104K10					
C 1521	(A,62,35)	CKSSYB104K10					
C 1522	(A,67,34)	CKSSYB104K10					
C 1523	(A,70,35)	CKSSYB471K50					
C 1524	(A,68,38)	CKSSYB473K16					
C 1525	(A,69,39)	CKSSYB103K16					
C 1526	(A,67,36)	CKSSYB103K16					
C 1528	(A,72,36)	CCSSCH471J50					
C 1529	(A,69,41)	CKSSYB103K16					
C 1530	(B,50,26)	CKSSYB104K10					
C 1531	(A,71,40)	CKSSYB473K16					
C 1601	(A,44,27)	CKSSYB103K16					
C 1602	(A,48,22)	CCSSCH101J50					
C 1603	(A,43,22)	CCSSCH101J50					
C 1604	(A,45,22)	CCSSCH680J50					
C 1605	(A,41,23)	CCSSCH680J50					
C 1606	(A,40,27)	CKSSYB104K10					
C 1607	(A,50,36)	CKSQYB106K6R3					
C 1608	(A,47,32)	CKSRYB105K10					
C 1609	(A,54,39)	CKSSYB104K10					
C 1612	(A,55,38)	CKSSYB104K10					
C 1613	(A,56,38)	CKSSYB104K10					
C 1614	(A,57,38)	CKSSYB104K10					
C 1615	(A,57,36)	CKSSYB104K10					
C 1616	(A,57,34)	CKSSYB104K10					

D

Unit Number : CWX4034
Unit Name : Compound Unit(A)

MISCELLANEOUS

S 1201	Spring Switch(12cm)	CSN1080
S 1202	Spring Switch(8cm)	CSN1080
S 1203	Spring Switch(DISC SENS)	CSN1082
S 1204	Spring Switch(DISC SENS)	CSN1083
S 1205	Spring Switch(8cm)	CSN1081

E

Unit Number : CWX3394
Unit Name : Compound Unit(B)

MISCELLANEOUS

S 1206	Spring Switch(CLAMP)	CSN1080
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F

Unit Number : CWN8792
Unit Name : Keyboard Unit

MISCELLANEOUS

IC 5501	(A,158,16) IR RC Rec Module	SIR8440B5
Q 5501	(B,51,11) Chip Transistor	HN1C01FU
Q 5502	(B,49,7) Bipolar TR	LSCR523UB

1

Circuit Symbol and No.

Q 5503 (B,148,17) Chip Transistor
 Q 5504 (B,143,16) Bipolar TR

2

Part No.

HN1C01FU
 LSCR523UB

3

Circuit Symbol and No.**RESISTORS**

R 1 (A,17,13)
 R 2 (A,19,15)
 R 3 (A,23,25)
 R 4 (A,27,26)
 R 5 (A,27,25)

4

Part No.

RS1/16SS272J
 RS1/16SS471J
 RS1/16SS102J
 RS1/16SS102J
 RS1/16SS102J

R 6 (A,16,13)

RS1/16SS183J

CAPACITORS

C 1 (A,12,24)
 C 2 (A,27,15)
 C 3 (A,21,15)
 C 4 (A,31,25)
 C 5 (A,20,36)

CEVW101M16
 CKSSYB104K16
 CKSRYB105K16
 CKSSYB104K16
 CKSSYB223K16

C 6 (A,14,35)

CKSSYB223K16

C 7 (A,15,11)

CKSSYB104K10



Unit Number : EWX2009

Unit Name : SW PCB Unit

MISCELLANEOUS

S 51 (A,17,7) Spring Switch(CLOSE) CSN1080
 S 52 (A,15,15) Spring Switch(OPEN) CSN1080
 VR51 (A,11,30) Variable Resistor 10 kohm CCW1029

RESISTORS

R 51 (A,11,12)
 R 52 (A,11,11)
 R 53 (A,11,9)
 R 54 (A,11,10)

RS1/16SS272J
 RS1/16SS273J
 RS1/16SS472J
 RS1/16SS563J

CAPACITORS

C 51 (A,11,19)
 C 52 (A,9,14)

CKSSYB104K10
 CKSSYB104K10

A

D 5501 (A,149,10) LED
 D 5502 (A,23,10) LED
 S 5501 (A,66,15) Switch
 S 5502 (A,102,15) Push Switch
 S 5503 (A,142,15) Push Switch

S 5504 (A,120,6) Push Switch
 S 5505 (A,13,11) Encoder
 S 5506 (A,84,6) Push Switch
 S 5507 (A,31,8) Push Switch
 S 5508 (A,47,6) Push Switch

S 5509 (A,66,6) Push Switch
 S 5510 (A,102,6) Push Switch
 CN5501 (B,115,12) FFC/FPC Connector

RESISTORS

R 5501 (B,155,17)
 R 5503 (B,55,11)
 R 5505 (B,51,14)
 R 5506 (B,53,14)
 R 5507 (B,48,10)

R 5508 (B,44,11)
 R 5509 (B,48,11)
 R 5513 (B,53,8)
 R 5514 (B,53,7)
 R 5515 (B,56,7)

R 5516 (B,39,7)
 R 5517 (B,39,6)
 R 5518 (B,64,8)
 R 5519 (B,94,6)
 R 5520 (B,151,19)

R 5521 (B,150,20)
 R 5522 (B,149,22)
 R 5523 (B,140,13)
 R 5524 (B,148,20)
 R 5525 (B,147,21)

R 5526 (B,140,14)
 R 5527 (B,143,19)
 R 5528 (B,145,20)
 R 5530 (B,104,8)
 R 5531 (B,100,7)

R 5532 (B,32,7)

CAPACITORS

C 5502 (B,157,16) 10 uF



Unit Number : EWX2008

Unit Name : Main PCB Unit

MISCELLANEOUS

IC 1 (A,24,20) IC
 Q 1 (A,14,17) Transistor
 D 1 (A,16,16) Diode
 S 1 (A,27,46) Spring Switch(DEG0)
 CN1 (A,25,6) Connector

BA6247FP
 LTC024EEB
 DZ2J056M0
 CSN1081
 CKS6063