

Service Manual



AVH-P5700DVD/EW

ORDER NO.
CRT3425

AV RECEIVER/DVD PLAYER 6.5 INCH WIDE DISPLAY

AVH-P5700DVD_{/EW} AVH-P5700DVD_{/UC}

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

Model No.	Order No.	Mech.Module	Remarks
CX-3078	CRT3257	MS-3V1	DVD Mech. Module: Circuit Description, Mech. Description, Disassembly

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

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan

PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.

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

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

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SAFETY INFORMATION

UC

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 contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.
Health & Safety Code Section 25249.6 - Proposition 65

This product contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance: www.eiae.org.

EW

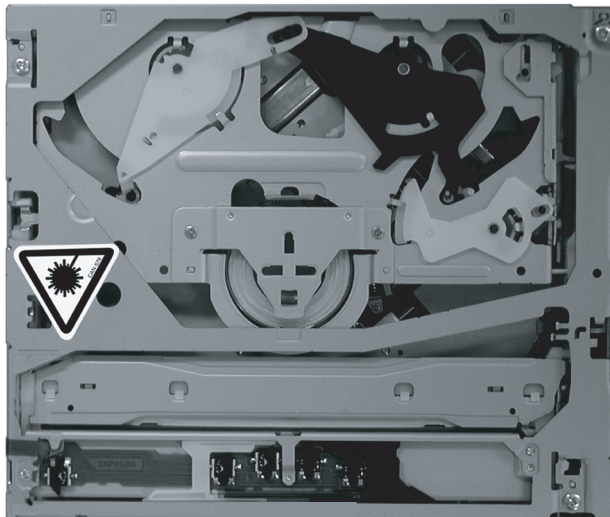
1. Safety Precautions for those who Service this Unit.

- Follow the adjustment steps in the service manual when servicing 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 13cm from the focus lens must be kept.
2. During repair or tests, do not view laser beam for 10 seconds or longer.

2. The triangular label is attached to the mechanism unit frame.



CAUTION

This product contains a laser diode of higher class than 1. 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.

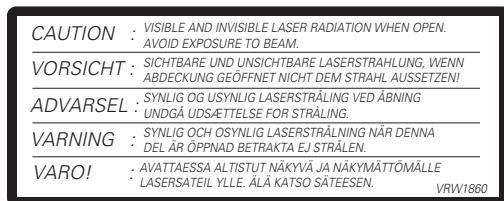
The following caution label appears on your unit.

Location: on the bottom of the unit



En

On the top of the player.

**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:640~660nm

CD:770~810nm

DVD : 2.48mw(Emitting period :9sec.)

CD : 705μw(Emitting period : unlimited)

Additionla Laser Caution

Transistors Q1101 and Q1102 in PCB drive the laser diodes for DVD and CD respectively. When Q1101 or Q1102 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.

● Service Precaution



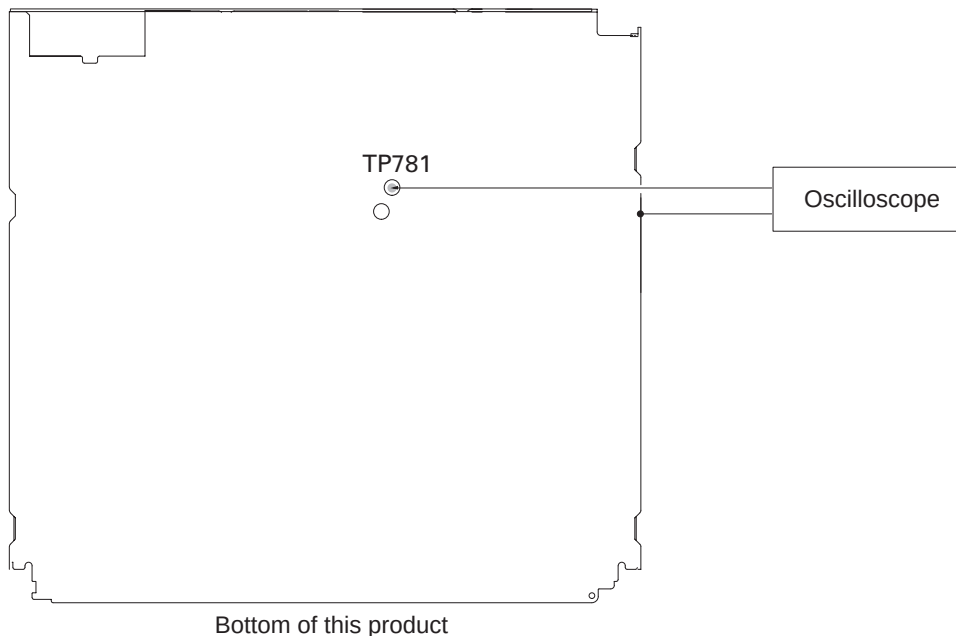
1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
2. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
3. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) .
4. After replacing the pickup unit, be sure to skew adjustment.
5. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.

● Inverter for LCD back light becomes a high voltage.

● Operation Check of Fan Motor (Center)

After completing repair of this product, please confirm that the fan motor (center) is rotating.
Check Method

1. DVD video is played with this product.
2. The operation is normal if the operation noise (pulse) can be observed after connecting oscilloscope to TP781 located at the bottom of this product. Under this circumstance, be careful not to contact TP781 with chassis as the power fuse of fan motor (center) will blow out, disabling the fan motor (center) to rotate.



is a trademark of DVD Format/Logo Licensing Corporation.

[Important Check Points for Good Servicing]

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

1. Product safety



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

- ① Use specified parts for repair.

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

- ② Do not perform modifications without proper instructions.

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

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

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

- ④ Make sure the screws are tightly fastened.

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

- ⑤ Make sure each connectors are correctly inserted.

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

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

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

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

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

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

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

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

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

- ⑩ Safe environment should be secured during servicing.

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

2. Adjustments



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

3. Lubricants, Glues, and Replacement parts



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

4. Cleaning



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

5. Shipping mode and Shipping screws



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

CONTENTS

	SAFETY INFORMATION	2
	1. SPECIFICATIONS	7
A	2. EXPLODED VIEWS AND PARTS LIST	12
	2.1 PACKING(AVH-P5700DVD/EW)	12
	2.2 PACKING(AVH-P5700DVD/UC)	14
	2.3 EXTERIOR(1)(AVH-P5700DVD/EW)	16
	2.4 EXTERIOR(1)(AVH-P5700DVD/UC)	18
	2.5 EXTERIOR(2)	20
	2.6 EXTERIOR(3)(AVH-P5700DVD/EW)	22
	2.7 EXTERIOR(3)(AVH-P5700DVD/UC)	24
	2.8 DVD MECHANISM MODULE(MS-3V1)	26
	3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM	28
	3.1 BLOCK DIAGRAM	28
	3.2 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)	38
B	3.3 MOTHER UNIT(SYSTEM)(GUIDE PAGE)	40
	3.4 MOTHER UNIT(POWER SUPPLY)	46
	3.5 MONITOR PCB(GUIDE PAGE)	48
	3.6 DVD CORE UNIT(SODC)(GUIDE PAGE)	54
	3.7 DVD CORE UNIT(CPU)	60
	3.8 COMPOUND UNIT(A), COMPOUND UNIT(B) AND RELAY PCB	64
	3.9 PU UNIT(REFERENCE)	65
	3.10 INVERTER PCB	66
	3.11 RGB UNIT	68
	3.12 UPPER PCB	70
	3.13 KEYBOARD UNIT	72
	3.14 MAIN UNIT, SW UNIT AND VOLUME UNIT	74
C	4. PCB CONNECTION DIAGRAM	76
	4.1 MOTHER UNIT	76
	4.2 MONITOR PCB	80
	4.3 DVD CORE UNIT	84
	4.4 COMPOUND UNIT(A), COMPOUND UNIT(B) AND RELAY PCB	88
	4.5 INVERTER PCB	89
	4.6 RGB UNIT	90
	4.7 UPPER PCB	91
	4.8 KEYBOARD UNIT	92
	4.9 SW UNIT AND VOLUME UNIT	93
	4.10 MAIN UNIT	94
	5. ELECTRICAL PARTS LIST	96
D	6. ADJUSTMENT	117
	6.1 JIG CONNECTION DIAGRAM	117
	6.2 DVD ADJUSTMENT	118
	6.3 MOTHER UNIT ADJUSTMENT	132
	6.4 MONITOR PCB ADJUSTMENT	134
	6.5 INVERTER PCB ADJUSTMENT	138
	6.6 MONITOR TEST MODE	140
	6.7 TOUCH PANEL TEST MODE	150
	7. GENERAL INFORMATION	160
	7.1 DIAGNOSIS	160
	7.1.1 DISASSEMBLY	160
E	7.1.2 PCB LOCATIONS	168
	7.1.3 CONNECTOR FUNCTION DESCRIPTION	169
	7.2 IC	170
	7.3 EXPLANATION	196
	7.3.1 MECHANISM DESCRIPTIONS	196
	7.3.2 OPERATIONAL FLOW CHART	202
	7.4 CLEANING	203
	8. OPERATIONS	204

1. SPECIFICATIONS

● AVH-P5700DVD/EW

General

Rated power source	14.4 V DC (allowable voltage range: 12.0 – 14.4 V DC)
Grounding system	Negative type
Max. current consumption	10.0 A
Backup current	5 mA
Dimensions (W × H × D):	
DIN	
Chassis	178 × 50 × 160 mm
Nose	188 × 58 × 30 mm
D	
Chassis	178 × 50 × 165 mm
Nose	170 × 46 × 25 mm
Weight	2.3 kg

Display

Screen size/aspect ratio	6.5 inch wide/16:9 (effective display area: 144 × 77 mm)
Pixels	336,960 (1,440 × 234)
Type	TFT active matrix, transmis- sive type
Color system	NTSC/PAL/SECAM compati- ble
Storage temperature range	–20 – +80 °C
Angle adjustment	50 – 110° (initial settings: 110°)

Audio

Maximum power output	50 W × 4 50 W × 2/4 Ω + 70 W × 1/2 Ω (for subwoofer)
Continuous power output ...	27 W × 4 (DIN 45324, +B=14.4 V)
Load impedance	4 Ω (4 – 8 Ω [2 Ω for 1 ch] al- lowable)
Preout max output level/output impedance	2.2 V/1k Ω
Equalizer (3-Band Parametric Equalizer):	
Low	
Frequency	40/80/100/160 Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12dB
Mid	
Frequency	200/500/1k/2k Hz

Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
----------------	---

Gain	±12dB
------------	-------

High

Frequency	3.15k/8k/10k/12.5k Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12dB

Loudness contour:

Low	+3.5 dB (100 Hz), +3 dB (10 kHz)
Mid	+10 dB (100 Hz), +6.5 dB (10 kHz)
High	+11 dB (100 Hz), +11 dB (10 kHz) (volume: –30 dB)

Tone controls:

Bass

Frequency	40/63/100/160 Hz
Gain	±12dB

Treble

Frequency	2.5k/4k/6.3k/10k Hz
Gain	±12dB

HPF:

Frequency	50/80/125 Hz
Slope	–12 dB/oct

Subwoofer:

Frequency	50/80/125 Hz
Slope	–18 dB/oct
Gain	±12dB
Phase	Normal/Reverse

DVD Player

System	DVD video, Video CD, Com- pact disc audio system
Usable discs	DVD video, Video CD, Com- pact disc
Region number	2
Signal format:	
Sampling frequency	44.1/48/96 kHz
Number of quantization bits	16/20/24; linear
Frequency response	5 – 44,000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio	97 dB (1 kHz) (IEC-A net- work) (CD: 96 dB (1 kHz) (IEC-A network))
Dynamic range	95 dB (1 kHz) (CD: 94 dB (1 kHz))
Distortion	0.008 % (1 kHz)

A

Output level:
Video 1.0 Vp-p/75 Ω (±0.2 V)
Audio 1.0 V (1 kHz, 0 dB)
Number of channels 2 (stereo)
MP3 decoding format MPEG-1 & 2 Audio Layer 3
WMA decoding format Ver. 7 & 8

B

FM tuner
Frequency range 87.5 – 108.0 MHz
Usable sensitivity 8 dBf (0.7 μV/75 Ω, mono,
S/N: 30 dB)
50 dB quieting sensitivity 10 dBf (0.9 μV/75 Ω, mono)
Signal-to-noise ratio 75 dB (IEC-A network)
Distortion 0.3 % (at 65 dBf, 1 kHz,
stereo)
0.1 % (at 65 dBf, 1 kHz,
mono)
Frequency response 30 – 15,000 Hz (±3 dB)
Stereo separation 45 dB (at 65 dBf, 1 kHz)
Selectivity 80 dB (±200 kHz)

C

MW tuner
Frequency range 531 – 1,602 kHz (9 kHz)
Usable sensitivity 18 μV (S/N: 20 dB)
Signal-to-noise ratio 65 dB (IEC-A network)

LW tuner
Frequency range 153 – 281 kHz
Usable sensitivity 30 μV (S/N: 20 dB)
Signal-to-noise ratio 65 dB (IEC-A network)

 Note

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

D

E

F

● AVH-P5700DVD/UC

General

Power source	14.4 V DC (10.8 – 15.1 V allowable)
Grounding system	Negative type
Head unit:	
Max. current consumption	10.0 A
Backup current	5 mA
Dimensions (W × H × D):	
DIN	
Chassis	178 × 50 × 160 mm
Nose	188 × 58 × 30 mm
D	
Chassis	178 × 50 × 165 mm
Nose	170 × 46 × 25 mm
Weight	2.3 kg

Display

Screen size/aspect ratio	6.5 inch wide/16:9 (effective display area: 144 × 77 mm)
Pixels	336,960 (1,440 × 234)
Type	TFT active matrix, transmissive type
Color system	NTSC compatible
Storage temperature range	–20 – +80 °C
Angle adjustment	50 – 110° (initial settings: 110°)

Audio

Maximum power output	50 W × 4 50 W × 2/4 Ω + 70 W × 1/2 Ω (for subwoofer)
Continuous power output is 22 W per channel minimum into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.	
Load impedance	4 Ω (4 – 8 Ω [2 Ω for 1 ch] allowable)
Preout max output level/output impedance	2.2 V/1k Ω
Equalizer (3-Band Parametric Equalizer):	
Low	
Frequency	40/80/100/160 Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12dB
Mid	
Frequency	200/500/1k/2k Hz

Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
----------------	--

Gain	±12dB
------------	-------

High

Frequency	3.15k/8k/10k/12.5k Hz
-----------------	-----------------------

Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
----------------	--

Gain	±12dB
------------	-------

Loudness contour:

Low	+3.5 dB (100 Hz), +3 dB (10 kHz)
-----------	----------------------------------

Mid	+10 dB (100 Hz), +6.5 dB (10 kHz)
-----------	-----------------------------------

High	+11 dB (100 Hz), +11 dB (10 kHz) (volume: –30 dB)
------------	--

Tone controls:

Bass

Frequency	40/63/100/160 Hz
-----------------	------------------

Gain	±12dB
------------	-------

Treble

Frequency	2.5k/4k/6.3k/10k Hz
-----------------	---------------------

Gain	±12dB
------------	-------

HPF:

Frequency	50/80/125 Hz
-----------------	--------------

Slope	–12 dB/oct
-------------	------------

Subwoofer:

Frequency	50/80/125 Hz
-----------------	--------------

Slope	–18 dB/oct
-------------	------------

Gain	±12dB
------------	-------

Phase	Normal/Reverse
-------------	----------------

DVD Player

System	DVD video, Video CD, Compact disc audio system
Usable discs	DVD video, Video CD, Compact disc
Region number	1
Signal format:	
Sampling frequency	44.1/48/96 kHz
Number of quantization bits	16/20/24; linear
Frequency response	5 – 44,000 Hz (with DVD, at sampling frequency 96 kHz)
Signal-to-noise ratio	97 dB (1 kHz) (IHF-A network) (CD: 96 dB (1 kHz) (IHF-A network))
Dynamic range	95 dB (1 kHz) (CD: 94 dB (1 kHz))
Distortion	0.008 % (1 kHz)

Output level:
Video 1.0 Vp-p/75 Ω (±0.2 V)
Audio 1.0 V (1 kHz, 0 dB)
Number of channels 2 (stereo)
MP3 decoding format MPEG-1 & 2 Audio Layer 3
WMA decoding format Ver. 7 & 8

FM tuner

Frequency range 87.9 – 107.9 MHz
Usable sensitivity 8 dBf (0.7 μV/75 Ω, mono,
S/N: 30 dB)
50 dB quieting sensitivity 10 dBf (0.9 μV/75 Ω, mono)
Signal-to-noise ratio 75 dB (IHF-A network)
Distortion 0.3 % (at 65 dBf, 1 kHz,
stereo)
0.1 % (at 65 dBf, 1 kHz,
mono)
Frequency response 30 – 15,000 Hz (±3 dB)
Stereo separation 45 dB (at 65 dBf, 1 kHz)
Selectivity 80 dB (±200 kHz)
Three-signal intermodulation (desired signal level)
..... 30 dBf (two undesired sig-
nal level: 100 dBf)

AM tuner

Frequency range 530 – 1,710 kHz (10 kHz)
Usable sensitivity 18 μV (S/N: 20 dB)
Signal-to-noise ratio 65 dB (IHF-A network)

 Note

Specifications and the design are subject to pos-
sible modifications without notice due to im-
provements. □



5



6



7



8



A



B



C



D



E



F



5



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AVH-P5700DVD/EW



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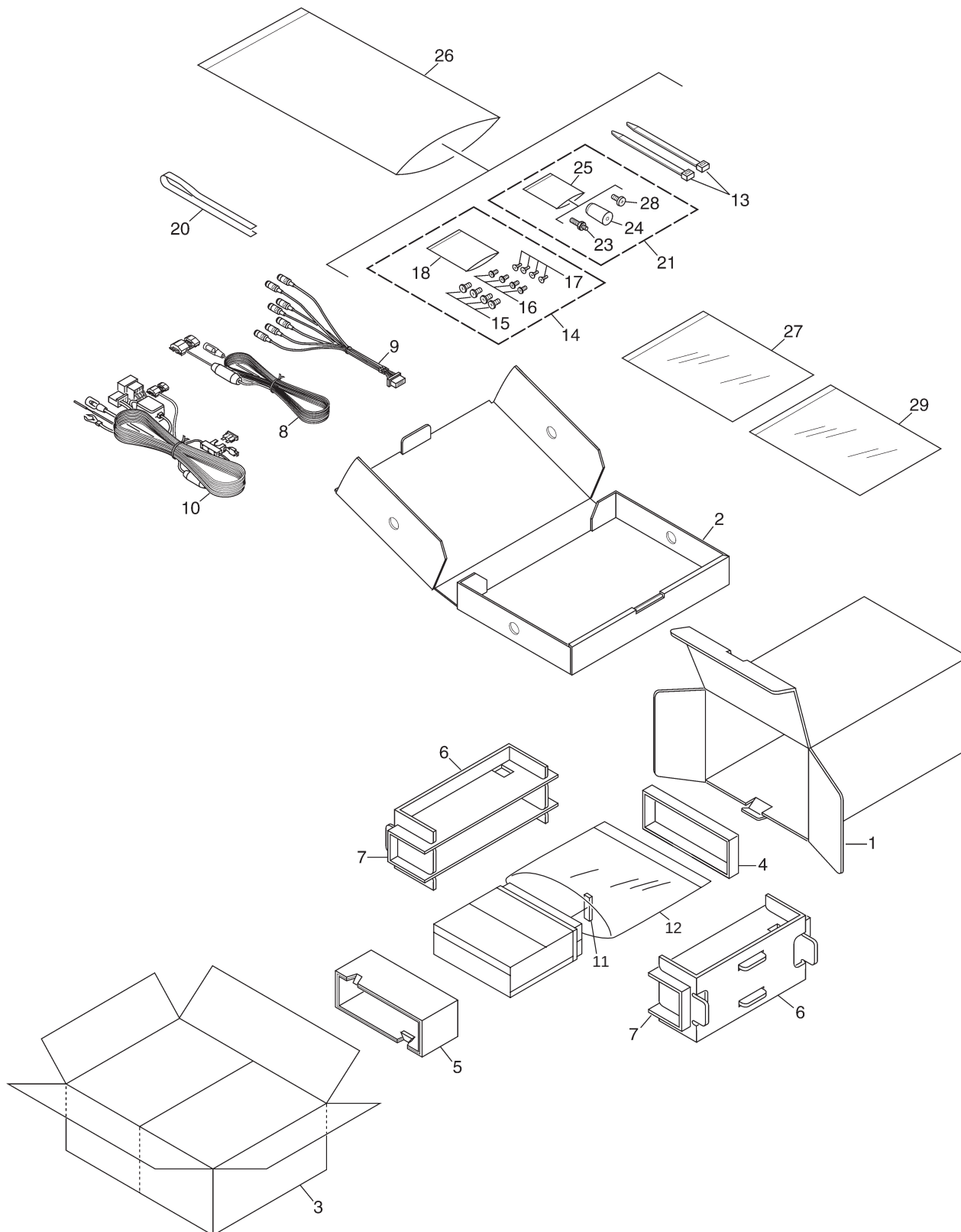
11



2. 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.)

2.1 PACKING(AVH-P5700DVD/EW)



PACKING(AVH-P5700DVD/EW) 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	Carton	CHG5493			
2	Sub Carton	CHG5270	21	Accessory Assy	CEA4771
3	Contain Box	CHL5493	23	Screw	CBA1650
4	Protector	CHP2387	24	Bush	CNV1917
5	Protector	CHP2708	* 25	Polyethylene Bag	E36-615
			* 26	Polyethylene Bag	CEG-158
6	Protector	CHP2706			
7	Protector	CHP2707	27-1	Polyethylene Bag	CEG1116
8	Cord Assy	CDE7321	27-2	Owner's Manual	CRB2047
9	Cord Assy	CDE7801	27-3	Owner's Manual	CRB2048
10	Cord Assy	CDE7792	27-4	Owner's Manual	CRB2049
			27-5	Owner's Manual	CRB2050
11	Spacer	CNM9773			
12	Polyethylene Bag	CEG1088	* 27-6	Warranty Card	CRY1157
* 13	Lock Tie	CNV-754	* 27-7	Passport	CRY1013
14	Screw Assy	CEA5144	28	Screw	CBA1875
15	Screw	BMZ50P060FTC	29-1	Polyethylene Bag	CEG1116
			29-2	Owner's Manual	CRB2051
16	Screw(M4x3)	CBA1870			
17	Screw	CMZ50P060FTC	29-3	Owner's Manual	CRB2052
* 18	Polyethylene Sheet	CNM4338	29-4	Installation Manual	CRD3965
20	Sheet	CNM8603			

Owner's Manual,Installation Manual

<u>Part No.</u>	<u>Language</u>
CRB2047	English
CRB2048	Spanish
CRB2049	German
CRB2050	French
CRB2051	Italian
CRB2052	Dutch
CRD3965	English, Spanish, German, French, Italian, Dutch

1

2

3

4

2.2 PACKING(AVH-P5700DVD/UC)

A

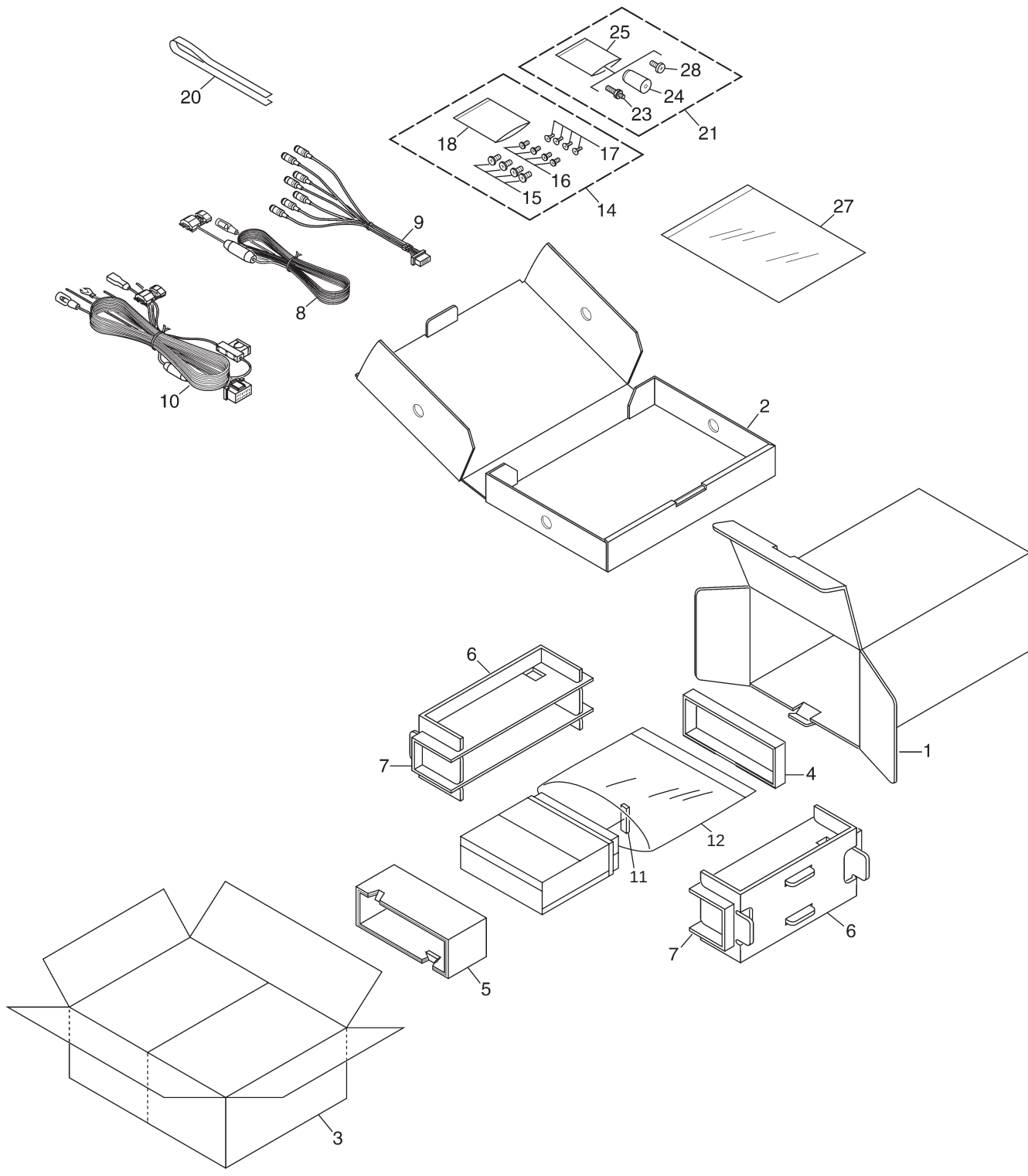
B

C

D

E

F



1

2

3

4

PACKING(AVH-P5700DVD/UC) 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	Carton	CHG5494	17	Screw	CMZ50P060FTC
2	Sub Carton	CHG5270	* 18	Polyethylene Sheet	CNM4338
3	Contain Box	CHL5494	20	Sheet	CNM8603
4	Protector	CHP2387			
5	Protector	CHP2708	21	Accessory Assy	CEA4771
			23	Screw	CBA1650
6	Protector	CHP2706	24	Bush	CNV1917
7	Protector	CHP2707	* 25	Polyethylene Bag	E36-615
8	Cord Assy	CDE7321	26	*****	
9	Cord Assy	CDE7815			
10	Cord Assy	CDE7790	27-1	Polyethylene Bag	CEG1116
			27-2	Owner's Manual	CRB2053
11	Spacer	CNM9773	27-3	Owner's Manual	CRB2054
12	Polyethylene Bag	CEG1185	27-4	Installation Manual	CRD3966
13	*****		* 27-5	Registration Card	CRY1229
14	Screw Assy	CEA5144			
15	Screw	BMZ50P060FTC	27-6	Caution Card	CRP1310
			28	Screw	CBA1875
16	Screw(M4x3)	CBA1870			

Owner's Manual,Installation Manual

Part No.	Language
CRB2053	English
CRB2054	French
CRD3966	English, French

4



EXTERIOR(1)(AVH-P5700DVD/EW) SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.	
1	Screw	BMZ20P030FTB	50	Connector(CN151)	CKS4052	
2	Screw	BMZ20P160FTC				A
3	Screw	BMZ26P030FTC	51	Connector(CN181)	CKS4052	
4	Screw(M2x8)	CBA1752	52	Connector(CN175)	CKS4068	
5	Screw	BPZ20P060FTB	53	Connector(CN152)	CKS4282	
			54	Connector(CN101)	CKS4511	
6	Screw(M2x2)	CBA1872	55	Connector(CN771)	CKS4822	
7	Button(EJECT)	CAC9051				
8	Button(A-BM)	CAC9052	56	Connector(CN561)	CKS4824	
9	Button(CROSS)	CAC9053	57	Connector(CN121)	CKS4830	
10	Cord Assy	CDE7176	58	Connector(CN131)	CKS4832	
			59	Connector(CN781)	CKS4977	
11	Cord	CDE7715	60	Holder	CND2629	B
12	Cord Assy	CDE7797				
13	Flat Cable	CDE7805	61	Holder	CND2630	
14	Cord Assy	CDE7796	62	Shield	CND2631	
15	Panel	CNB3101	63	Holder	CND2633	
			64	Insulator	CNM9400	
16	Case	CNB3104	65	Insulator	CNM9521	
17	Bracket	CND1438				
18	Holder	CND1441	66	Spacer	CNM9522	
19	Button(VOL)	CAC9050	67	Spacer	CNM9523	
20	Bracket	CND2626	68	Heat Sink	CNR1703	
			69	Heat Sink	CNR1784	C
21	Bracket	CND2627	70	RGB Unit	CWM9815	
22	Holder	CND2628				
23	Lever Unit	CXC4211	71	Connector(CN951)	CKS4497	
24	Insulator	CNM8495	72	Connector(CN952)	CKS4978	
25	Insulator	CNM8864	73	Jack(CN981)	CKN1022	
			74	Connector(CN954)	CKS4052	
26	Insulator	CNM9398	75	Detach Grille Assy	CXC4192	
27	Sheet	CNM9517				
28	Insulator	CNM9750	76	Bracket	CND1482	
29	Flexible PCB	CNP8806	77	Holder	CND2634	
30	FFC	CDE7807	78	Button(SRC/-,+)	CAC9054	D
			79	Button(ATT,EQ/BAND)	CAC9056	
31	Connector(CN5501)	CKS4511	80	DVD Mechanism Module(MS-3V1)	CXK6418	
32	Guide	CNV8415				
33	Mother Unit	CWM9808	81	Fan Motor(M771)	CXM1262	
34	Screw	BMZ26P160FTC	82	Fan Motor(M781)	CXM1276	
35	Screw	BSZ26P080FTC	83	Screw	IMS26P040FTC	
			84	Cover	CNS8177	
36	Spring	CBH2863	85	Grille	CNS8173	
37	Flat Cable	CDE7806				
38	Antenna Cable	CDH1348	86	Screw	IPS20P060FTB	E
39	FM/AM Tuner Unit	CWE1650	87	Grille Unit	CXC4206	
40	Connector(CN101,102)	CKS4653	88	Transistor(Q892)	2SD2396	
			89	IC(IC871)	NJM2388F84	
41	Cushion	CNM8671	90	IC(IC241)	PAL007A	
42	Holder	CND1432				
43	Connector(CN154)	CKS4823	91	IC(IC5501)	TSOP4840SB1	
44	Cord	CDE7809	92	Cap	CNV6727	
45	Terminal(CN731)	CKF1064	93	Screw	CMZ50P060FTC	
			94	Holder	CNC9510	
46	Connector(CN701)	CKM1332	95	Panel	CNS7797	
47	Socket(CN261)	CKM1457				F
48	Connector(CN171)	CKS3751	96	Label	VRW1860	
49			97	Grille Assy	CXC4187	

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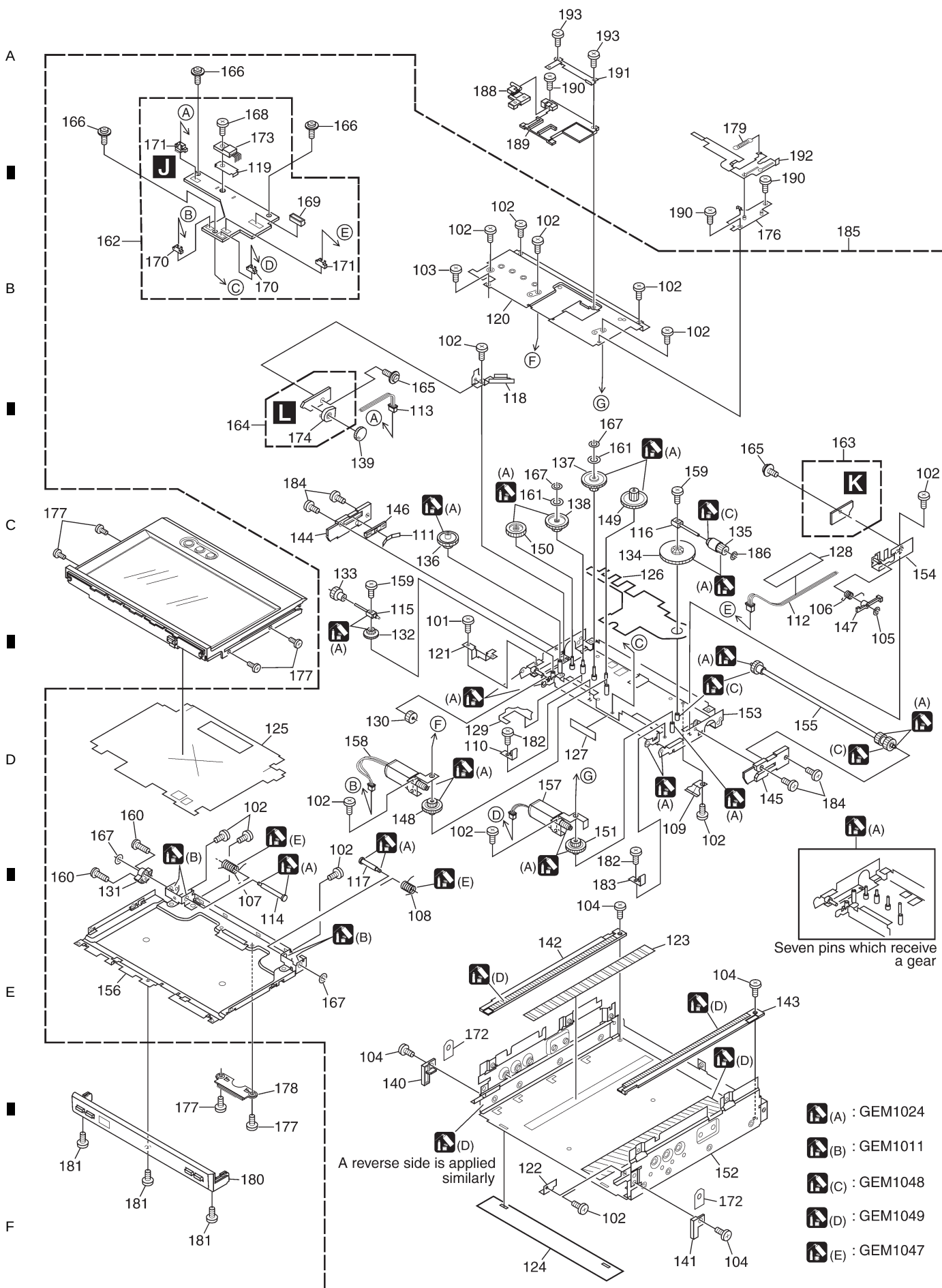


5 6 7 8

EXTERIOR(1)(AVH-P5700DVD/UC) 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	BMZ20P030FTB	50	Connector(CN151)	CKS4052	
2	Screw	BMZ20P160FTC				A
3	Screw	BMZ26P030FTC	51	Connector(CN181)	CKS4052	
4	Screw(M2x8)	CBA1752	52	Connector(CN175)	CKS4068	
5	Screw	BPZ20P060FTB	53	Connector(CN152)	CKS4282	
			54	Connector(CN101)	CKS4511	
6	Screw(M2x2)	CBA1872	55	Connector(CN771)	CKS4822	
7	Button(EJECT)	CAC9051				
8	Button(A-BM)	CAC9052	56	Connector(CN561)	CKS4824	
9	Button(CROSS)	CAC9053	57	Connector(CN121)	CKS4830	
10	Cord Assy	CDE7176	58	Connector(CN131)	CKS4832	
			59	Connector(CN781)	CKS4977	
11	Cord	CDE7715	60	Holder	CND2629	B
12	Cord Assy	CDE7798				
13	Flat Cable	CDE7805	61	Holder	CND2630	
14	Cord Assy	CDE7796	62	Shield	CND2631	
15	Panel	CNB3102	63	Holder	CND2633	
			64	Insulator	CNM9400	
16	Case	CNB3104	65	Insulator	CNM9521	
17	Bracket	CND1438				
18	Holder	CND1441	66	Spacer	CNM9522	
19	Button(VOL)	CAC9050	67	Spacer	CNM9523	
20	Bracket	CND2626	68	Heat Sink	CNR1703	
			69	Heat Sink	CNR1784	C
21	Bracket	CND2627	70	RGB Unit	CWM9816	
22	Holder	CND2628				
23	Lever Unit	CXC4211	71	Connector(CN951)	CKS4497	
24	Insulator	CNM8495	72	Connector(CN952)	CKS4978	
25	Insulator	CNM8864	73	Jack(CN981)	CKN1022	
			74	Connector(CN954)	CKS4052	
26	Insulator	CNM9398	75	Detach Grille Assy	CXC4193	
27	Sheet	CNM9517				
28	Insulator	CNM9750	76	Bracket	CND1482	
29	Flexible PCB	CNP8806	77	Holder	CND2634	
30	FFC	CDE7807	78	Button(SRC/-,+)	CAC9054	D
			79	Button(BOOST,EQ/BAND)	CAC9055	
31	Connector(CN5501)	CKS4511	80	DVD Mechanism Module(MS-3V1)	CXK6418	
32	Guide	CNV8415				
33	Mother Unit	CWM9809	81	Fan Motor(M771)	CXM1262	
34	Screw	BMZ26P160FTC	82	Fan Motor(M781)	CXM1276	
35	Screw	BSZ26P080FTC	83	Screw	IMS26P040FTC	
			84	Cover	CNS8177	
36	Spring	CBH2863	85	Grille	CNS8174	
37	Flat Cable	CDE7806				
38	Antenna Cable	CDH1348	86	Screw	IPS20P060FTB	E
39	FM/AM Tuner Unit	CWE1651	87	Grille Unit	CXC4206	
40	Connector(CN101,102)	CKS4653	88	Transistor(Q892)	2SD2396	
			89	IC(IC871)	NJM2388F84	
41	Cushion	CNM8671	90	IC(IC241)	PAL007A	
42	Holder	CND1432				
43	Connector(CN154)	CKS4823	91	IC(IC5501)	TSOP4840SB1	
44	Cord	CDE7809	92	Cap	CNV6727	
45	Terminal(CN731)	CKF1064	93	Screw	CMZ50P060FTC	
			94	Holder	CNC9510	
46	Connector(CN701)	CKM1332	95	Panel	CNS7797	
47	Socket(CN261)	CKM1457				F
48	Connector(CN171)	CKS3751	96			
49			97	Grille Assy	CXC4188	

2.5 EXTERIOR(2)



EXTERIOR(2) SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.	
101	Screw(M2x3)	CBA1082	150	Gear	CNR1709	
102	Screw(M2x2.5)	CBA1250				A
103	Screw(M2x4)	CBA1277	151	Gear	CNV7529	
104	Screw(M2x1.5)	CBA1615	152	Chassis Unit	CXB9509	
105	Washer	CBF1038	153	Frame Unit	CXB9511	
			154	Holder Unit	CXB9512	
106	Spring	CBH2645	155	Shaft Unit	CXB9513	
107	Spring	CBH2646				
108	Spring	CBH2647	156	Holder Unit	CXB9514	
109	Spring	CBL1585	157	Motor Unit(M3001)(Position)	CXB9515	
110	Spring	CBL1586	158	Motor Unit(M3002)(Angle)	CXB9516	
			159	Screw	CZB3082	
111	Spring	CBL1587	160	Screw	CZB3083	B
112	Cord Assy	CDE7047				
113	Cord Assy	CDE7213	161	Washer	CZB3084	
114	Shaft	CLA4270	162	Main Unit	CZW3087	
115	Shaft	CLA4305	163	SW Unit	CZW3088	
			164	Volume Unit	CZW3089	
116	Shaft	CLA4306	165	Screw	IMS20P020FTC	
117	Shaft	CLA4309				
118	Bracket	CND1221	166	Screw	IMS20P030FZK	
119	Heat Sink	CND1228	167	Washer	YE15S	
120	Case	CND1229	168	Screw	BMZ26P050FTC	
			169	Connector(CN3801)	CKS4068	C
121	Holder	CND1318	170	Connector(CN3802,CN3803)	CKS4732	
122	Holder	CND1449				
123	Sheet	CNM8522	171	Connector(CN3807,3809)	CKS4733	
124	Sheet	CNM8037	172	Spacer	CNM9837	
125	Insulator	CNM8048	173	IC(IC3801)	BA00AST	
			174	Volume(VR3841)	CCW1025	
126	Insulator	CNM8158	175			
127	Sheet	CNM8159				
128	Tape	CNM8160	176	Bracket Unit	CXC3048	
129	Insulator	CNM8294	177	Screw(M2x2)	CBA1872	
130	Gear	CNR1664	178	Holder	CND2890	D
			179	Spring	CBH2750	
131	Gear	CNR1665	180	Cover Unit(EW)	CXC5117	
132	Gear	CNR1677				
133	Gear	CNR1678		Cover Unit(UC)	CXC5118	
134	Gear	CNR1679	181	Screw(M2x2)	CBA1872	
135	Gear	CNR1680	182	Screw(M2x1.8)	CZB3085	
			183	Spring	CBL1642	
136	Gear	CNR1688				
137	Gear	CNR1802	184	Screw(M2x4)	CZB3088	
138	Gear	CNR1708	185	Drive Unit	CXC5111	E
139	Gear	CNV7383	186	Washer	CZB3089	
140	Holder	CNV7384	187	Sheet		
			188	Arm	CNV8065	
141	Holder	CNV7385				
142	Rack	CNV7386	189	Holder	CNV8066	
143	Rack	CNV7387	190	Screw(M2x3)	CBA1876	
144	Slider	CNV7388	191	Spring	CBL1679	
145	Slider	CNV7389	192	Lever	CND2202	
			193	Screw	CBA1797	
146	Holder	CNV7390				
147	Arm	CNV7391				F
148	Gear	CNV7522				
149	Gear	CNV7523				

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2.6 EXTERIOR(3)(AVH-P5700DVD/EW)

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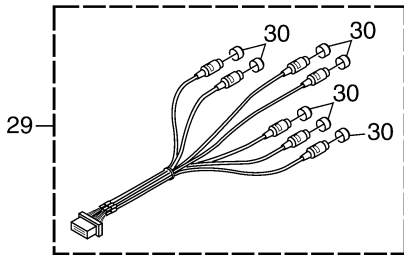
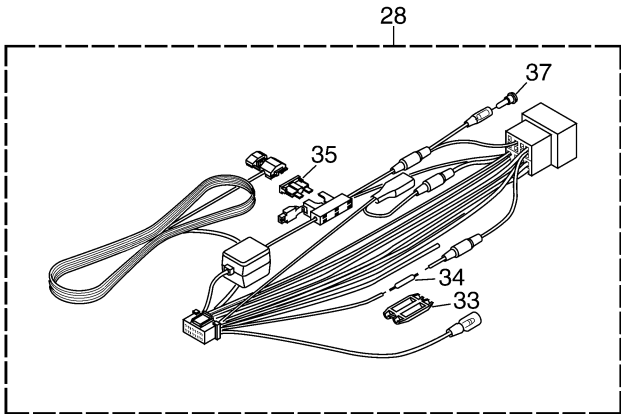
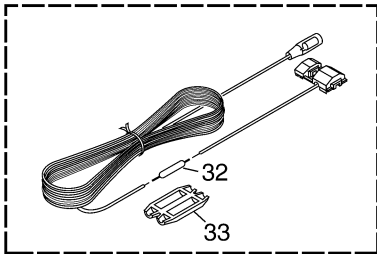
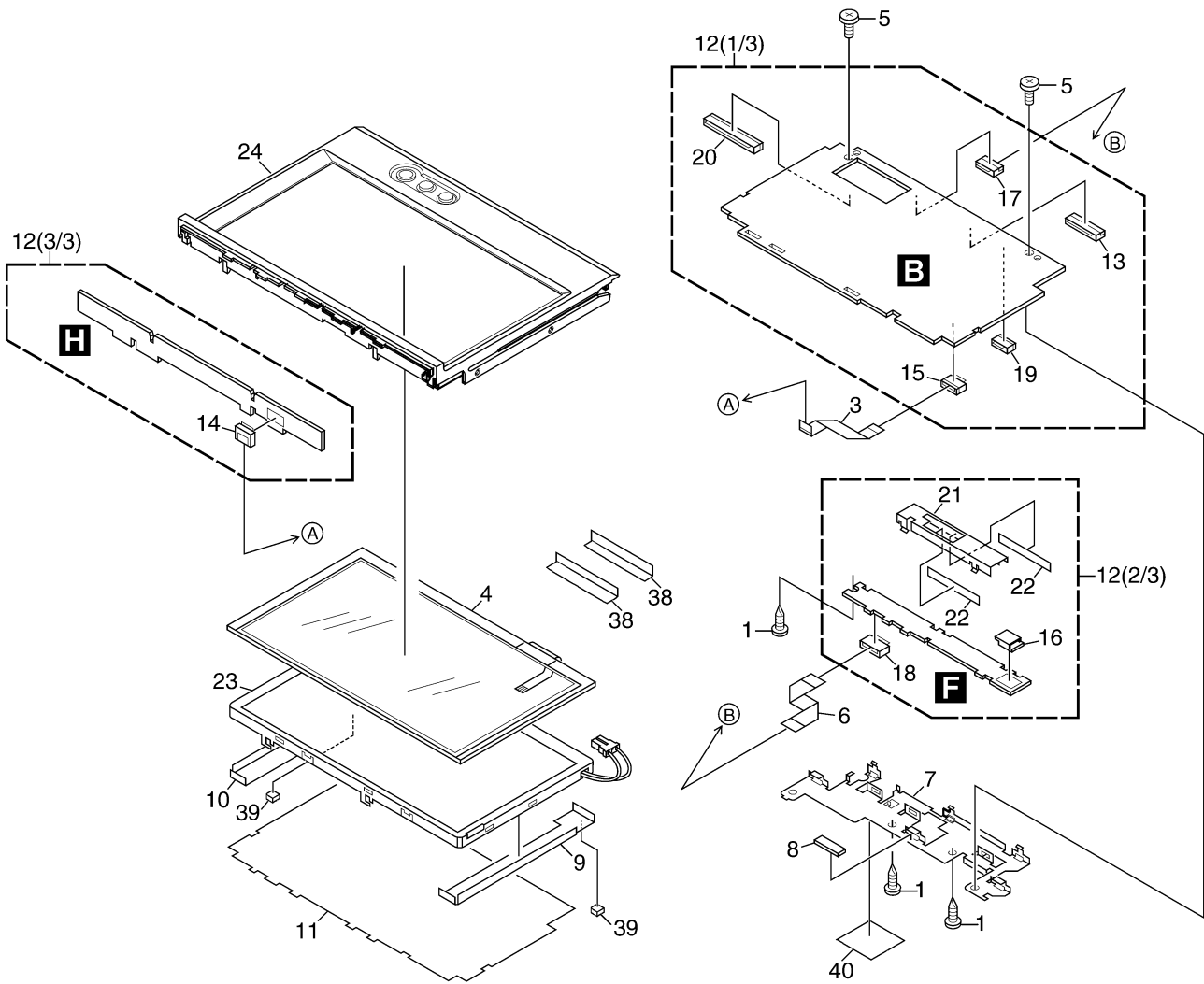
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EXTERIOR(3)(AVH-P5700DVD/EW) SECTION PARTS LIST

Mark No.	Description	Part No.
1	Screw	BPZ20P060FTC
2	*****	
3	FFC	CDE7195
4	Touch Panel	CSX1087
5	Screw(M2x2)	CBA1872
6	FFC	CDE7814
7	Holder	CND2610
8	Gasket	CNM8600
9	Sheet	CNM8265
10	Sheet	CNM7784
11	Insulator	CNM9390
12	Monitor Unit	CWM9820
13	Connector(CN4541)	CKS3968
14	Connector(CN4301)	CKS4054
15	Connector(CN4591)	CKS4054
16	Connector(CN5342)	CKS4428
17	Connector(CN4521)	CKS4595
18	Connector(CN5001)	CKS4595
19	Connector(CN4501)	CKS4675
20	Connector(CN4007)	CKS4872
21	Shield	CND2737
22	Insulator	CNM9251
23	LCD Module	CWX3151
24	Grille Unit	CXC4198
25	*****	
26	*****	
27	Cord Assy	CDE7321
28	Cord Assy	CDE7792
29	Cord Assy	CDE7801
30	Cap	CNV6727
31	*****	
32	Resistor	RSV2PMF102J
33	Cap	CNS1472
34	Resistor	RS1/2PMF102J
⚠ 35	Fuse(10A)	CEK1136
36	*****	
37	Terminal Cover	CKX-003
38	Sheet	CNM9742
39	Spacer	CNM9840
40	Sheet	CNM9744

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2.7 EXTERIOR(3)(AVH-P5700DVD/UC)

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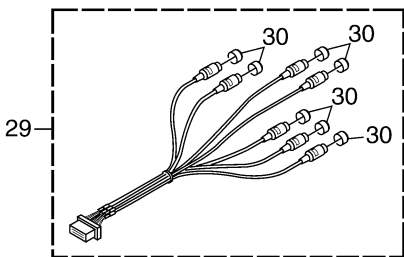
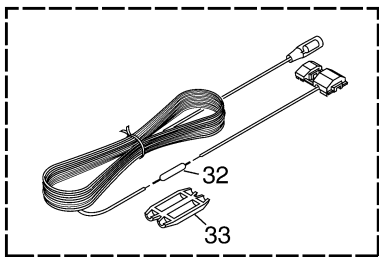
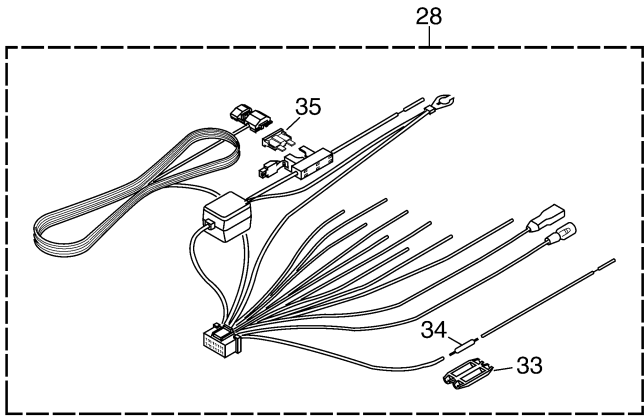
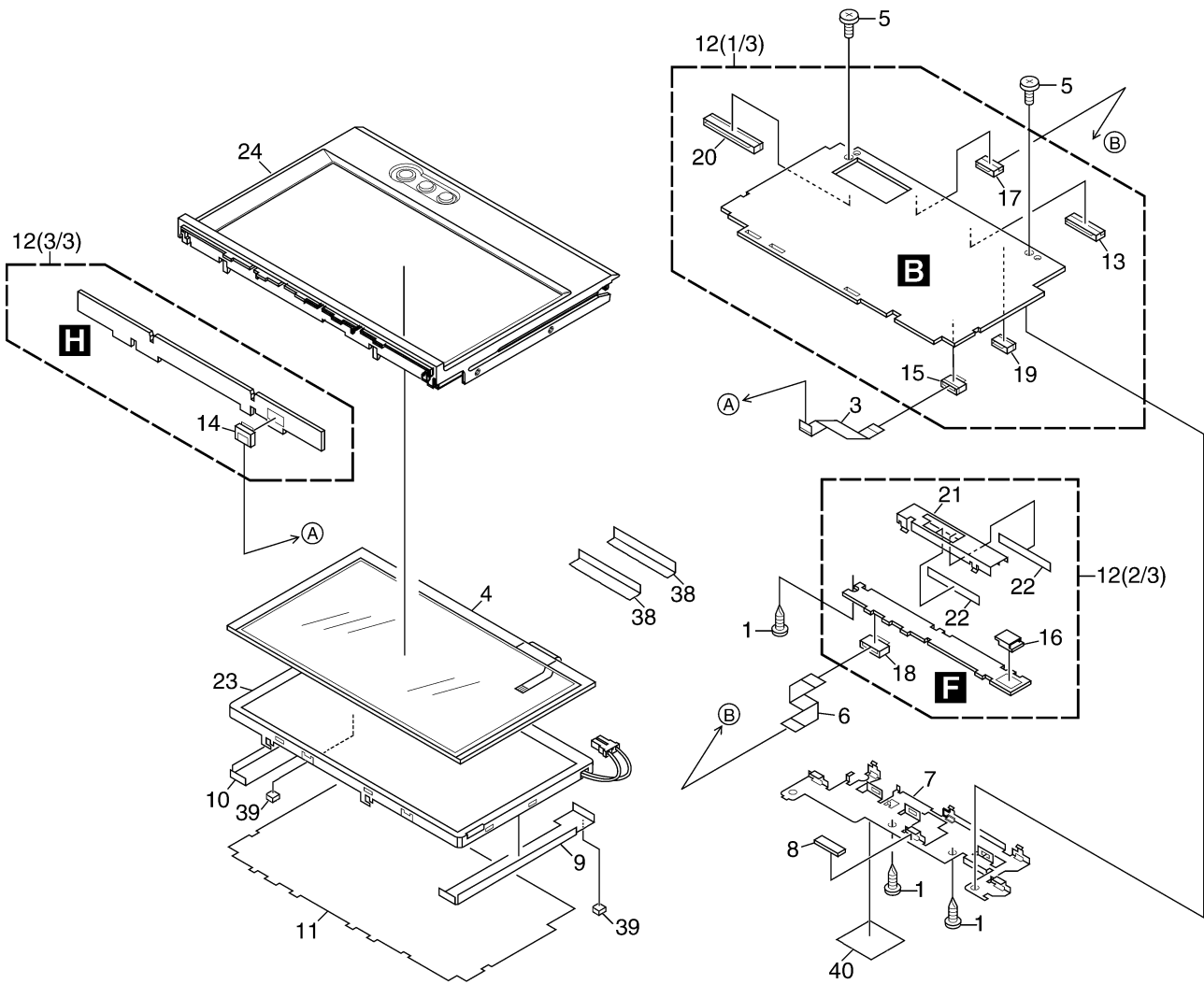
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EXTERIOR(3)(AVH-P5700DVD/UC) SECTION PARTS LIST

Mark No.	Description	Part No.	
1	Screw	BPZ20P060FTC	
2	*****		A
3	FFC	CDE7195	
4	Touch Panel	CSX1087	
5	Screw(M2x2)	CBA1872	
6	FFC	CDE7814	
7	Holder	CND2610	
8	Gasket	CNM8600	
9	Sheet	CNM8265	
10	Sheet	CNM7784	
11	Insulator	CNM9391	B
12	Monitor Unit	CWM9821	
13	Connector(CN4541)	CKS3968	
14	Connector(CN4301)	CKS4054	
15	Connector(CN4591)	CKS4054	
16	Connector(CN5342)	CKS4428	
17	Connector(CN4521)	CKS4595	
18	Connector(CN5001)	CKS4595	
19	Connector(CN4501)	CKS4675	
20	Connector(CN4007)	CKS4872	
21	Shield	CND2737	C
22	Insulator	CNM9251	
23	LCD Module	CWX3151	
24	Grille Unit	CXC4201	
25	*****		
26	*****		
27	Cord Assy	CDE7321	
28	Cord Assy	CDE7790	
29	Cord Assy	CDE7815	
30	Cap	CNV6727	D
31	*****		
32	Resistor	RSV2PMF102J	
33	Cap	CNS1472	
34	Resistor	RS1/2PMF102J	
⚠ 35	Fuse(10A)	CEK1136	
36	*****		
37	*****		
38	Sheet	CNM9742	E
39	Spacer	CNM9840	
40	Sheet	CNM9744	

2.8 DVD MECHANISM MODULE(MS-3V1)

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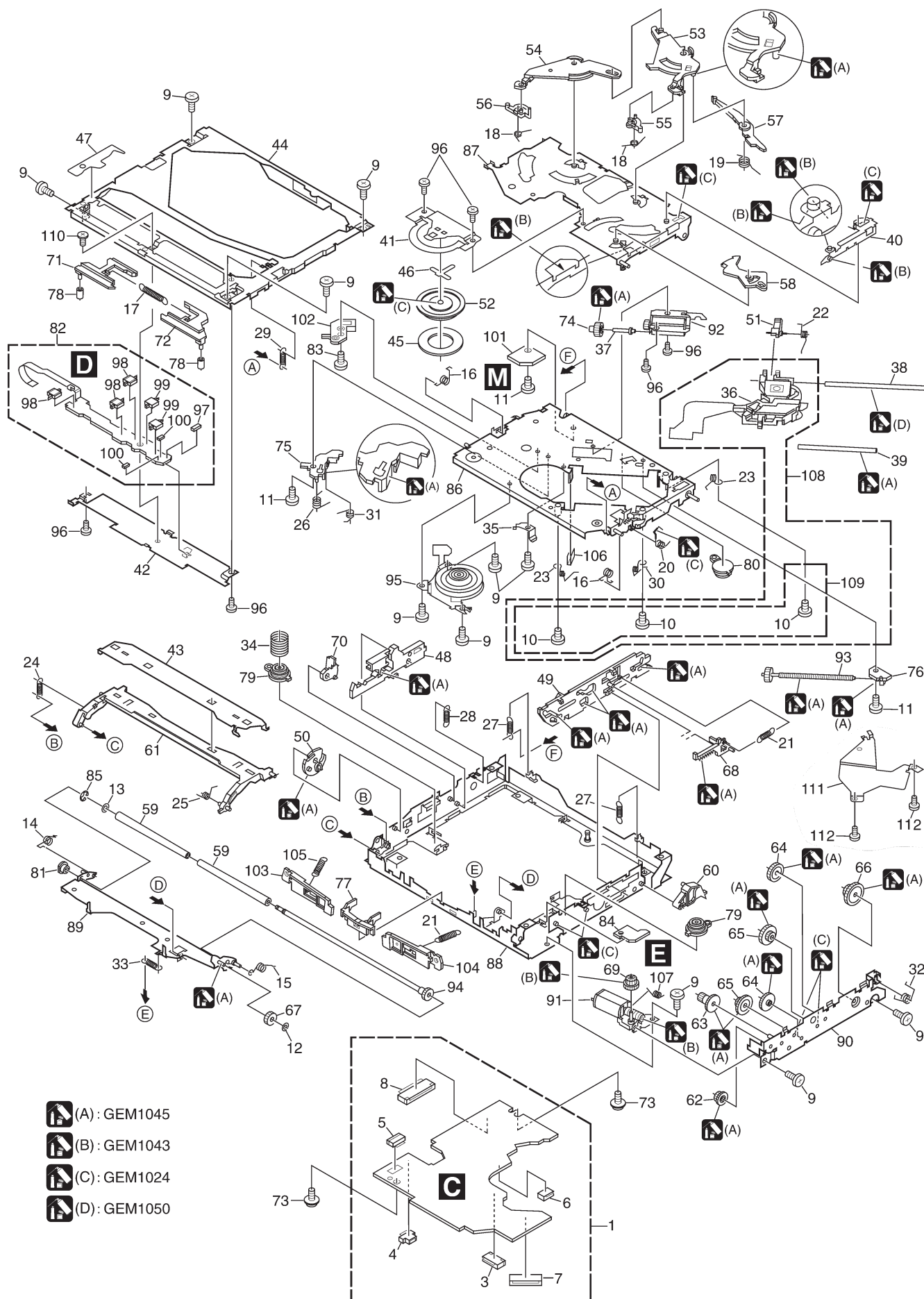
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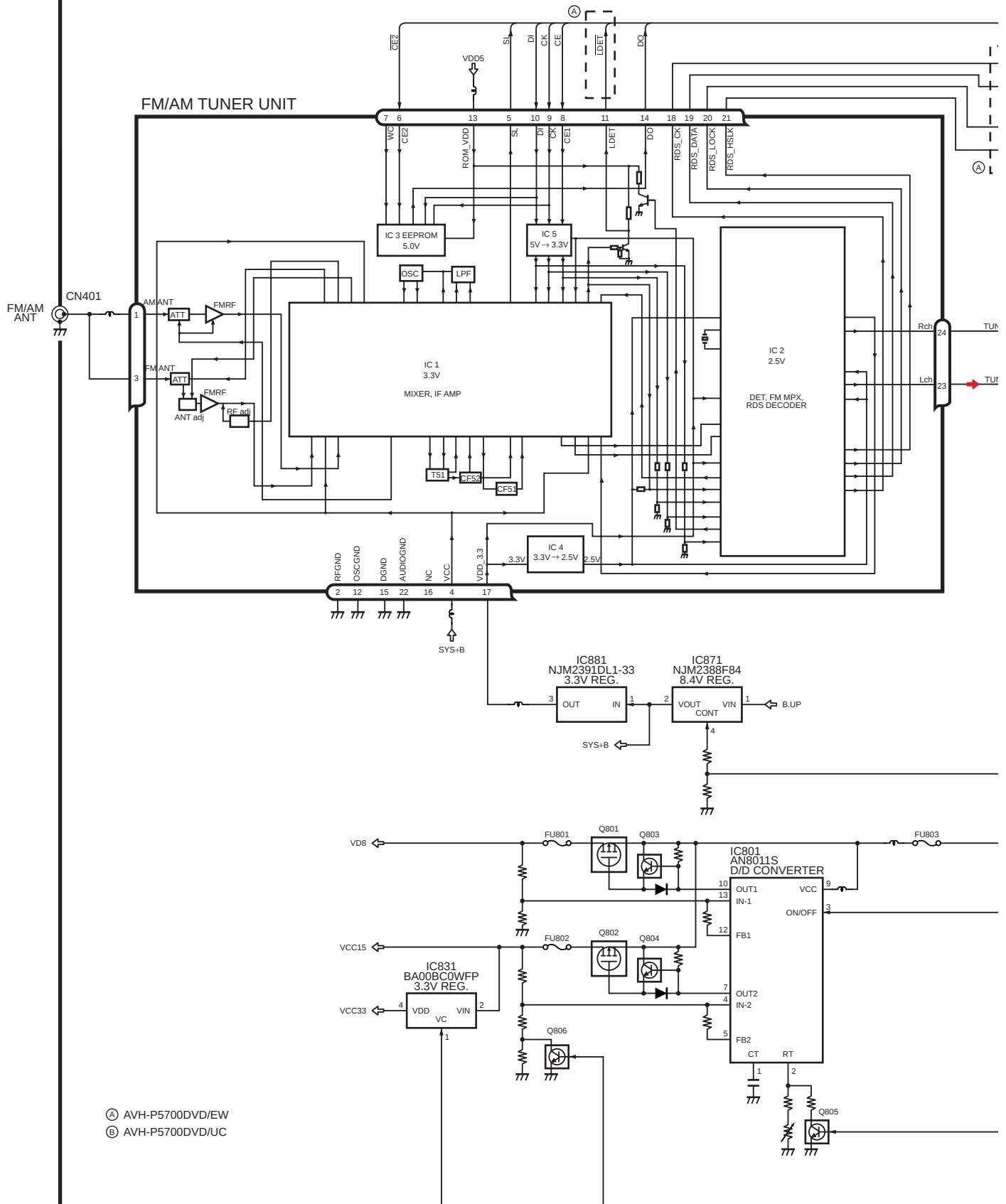
DVD MECHANISM MODULE (MS-3V1) SECTION PARTS LIST

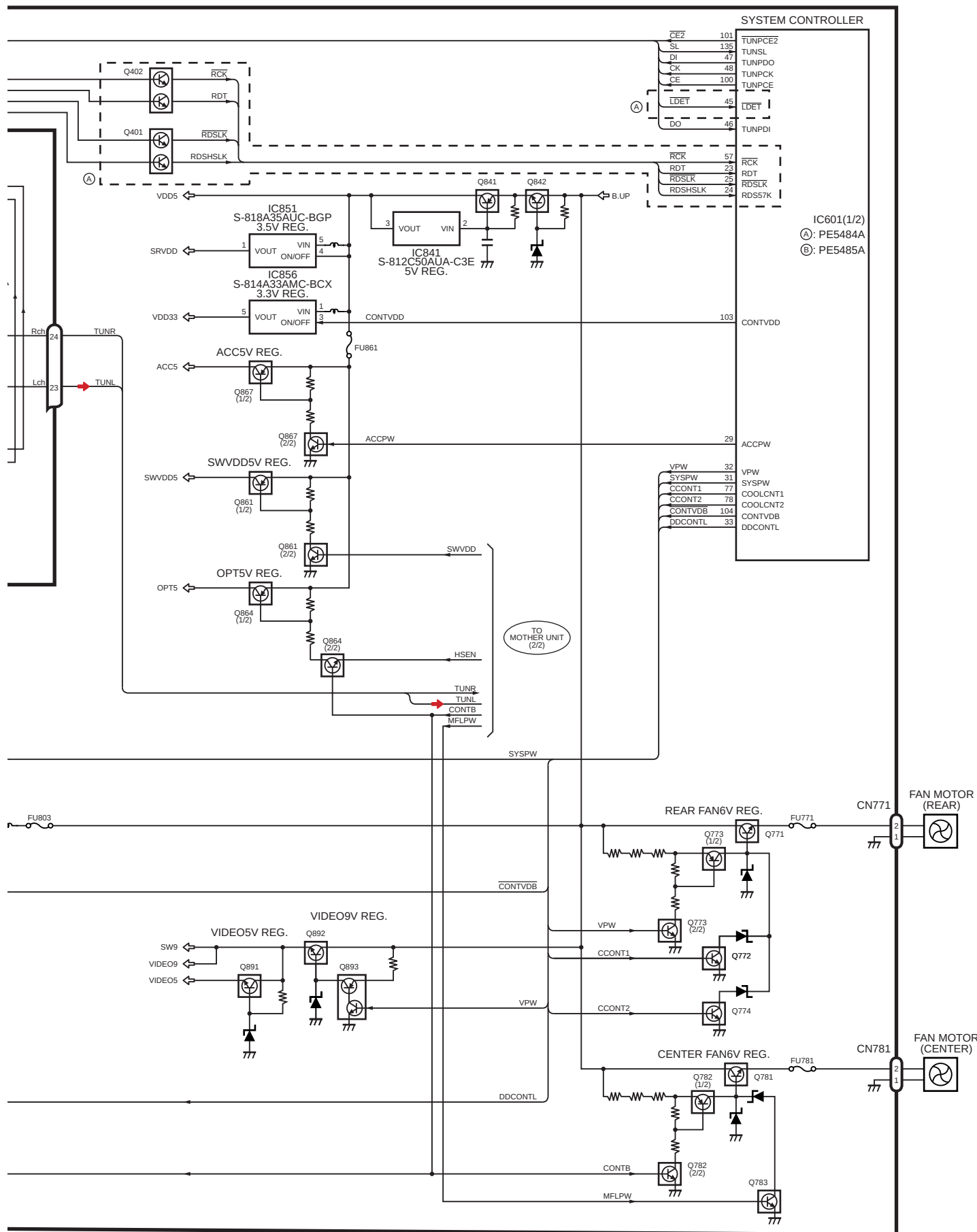
Mark No.	Description	Part No.	Mark No.	Description	Part No.	
1	DVD Core Unit	CWX3170	* 57	Arm	CNV7163	
2			58	Arm	CNV7164	
3	Connector(CN1201)	CKS4067	59	Roller	CNV7165	A
4	Connector(CN1551)	CKS4817	60	Arm	CNV7166	
5	Connector(CN1231)	CKS4624				
			61	Guide	CNV8093	
6	Connector(CN1903)	CKS4374	62	Gear	CNV7169	
7	Connector(CN1101)	CKS4625	63	Gear	CNV7170	
8	Connector(CN1901)	CKS3971	64	Gear	CNV7171	
9	Screw	BMZ20P020FTC	65	Gear(Black)	CNV7172	
10	Screw(M2 x 3.5)	CBA1571				
			66	Gear	CNV7173	
11	Screw(M2 x 2.5)	CBA1623	67	Gear	CNV7174	
12	Washer	CBF1038	68	Rack	CNV7175	
13	Washer	CBF1064	69	Gear	CNV7176	B
14	Spring	CBH2586	70	Arm	CNV8077	
15	Spring	CBH2587				
			71	Lever	CNV7178	
16	Spring	CBH2588	72	Lever	CNV7179	
17	Spring	CBH2589	73	Screw	IMS20P030FTC	
18	Spring	CBH2590	74	Gear	CNV7181	
19	Spring	CBH2591	75	Holder	CNV7183	
20	Spring	CBH2592				
			76	Holder	CNV7184	
21	Spring	CBH2593	77	Guide	CNV7745	
22	Spring	CBH2594	78	Roller	CNV7344	
23	Spring	CBH2595	79	Damper	CNV7470	
24	Spring	CBH2596	80	Damper	CNV7471	C
25	Spring	CBH2597				
			81	Collar	CNV7645	
26	Spring	CBH2598	82	Compound Unit(A)	CWX3154	
27	Spring	CBH2599	83	Screw(M2x2)	CBA1817	
28	Spring	CBH2600	84	Compound Unit(B)	CWX3156	
29	Spring	CBH2601	85	Washer	YE20FTC	
30	Spring	CBH2602				
			86	Chassis Unit	CXC3629	
31	Spring	CBH2603	87	Arm Unit	CXB8681	
32	Spring	CBH2604	88	Frame Unit	CXB8683	
33	Spring	CBH2605	89	Arm Unit	CXC4701	
34	Spring	CBH2711	90	Bracket Unit	CXB8685	D
35	Spring	CBL1564				
			91	Motor Unit(LOADING)(M1)	CXC4659	
36	Pickup Unit(Service)	CXX1770	92	Motor Unit(CARRIAGE)(M2)	CXC4314	
37	Shaft	CLA3881	93	Screw Unit	CXB8689	
38	Shaft	CLA4206	94	Roller Unit	CXB8690	
39	Shaft	CLA4207	95	Motor(SPINDLE)(M3)	CXM1272	
40	Lever	CNC9933				
			96	Screw	JFZ20P018FTC	
41	Holder	CNC9939	97	Photo-transistor(Q1299)	CPT231SCTD	
42	Holder	CND2251	98	Switch(S1201,S1202,S1203)	CSN1069	
43	Holder	CNC9941	99	Spring Switch(S1204,S1205)	CSN1070	
44	Frame	CND2250	100	Resistor(R1298,R1299)	RS1/16S0R0J	E
45	Sheet	CNM6883				
			101	Gathering PCB	CNX4320	
46	Sheet	CNM8283	102	Holder	CNV8186	
47	Sheet	CNM8643	103	Arm	CNV7742	
48	Lever	CNV8076	104	Arm	CNV7743	
49	Lever	CNV7155	105	Spring	CBH2710	
50	Cam	CNV7156				
			106	Spring	CBL1643	
51	Rack	CNV7157	107	Spring	CBH2712	
52	Clamper	CNV7158	108	Pickup Unit(Service)(Screw)	GXX1242	
53	Arm	CNV7159	109	Screw Assy	CXX1750	
54	Arm	CNV7160	110	Screw(M1.4xM1.4)	CBA1787	F
55	Arm	CNV7161				
			111	Cover	CNC9943	
56	Arm	CNV7162	112	Screw	JFZ20P018FTC	

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

A MOTHER UNIT (1/2)





B CN4541





B MONITOR PCB

A

B

C

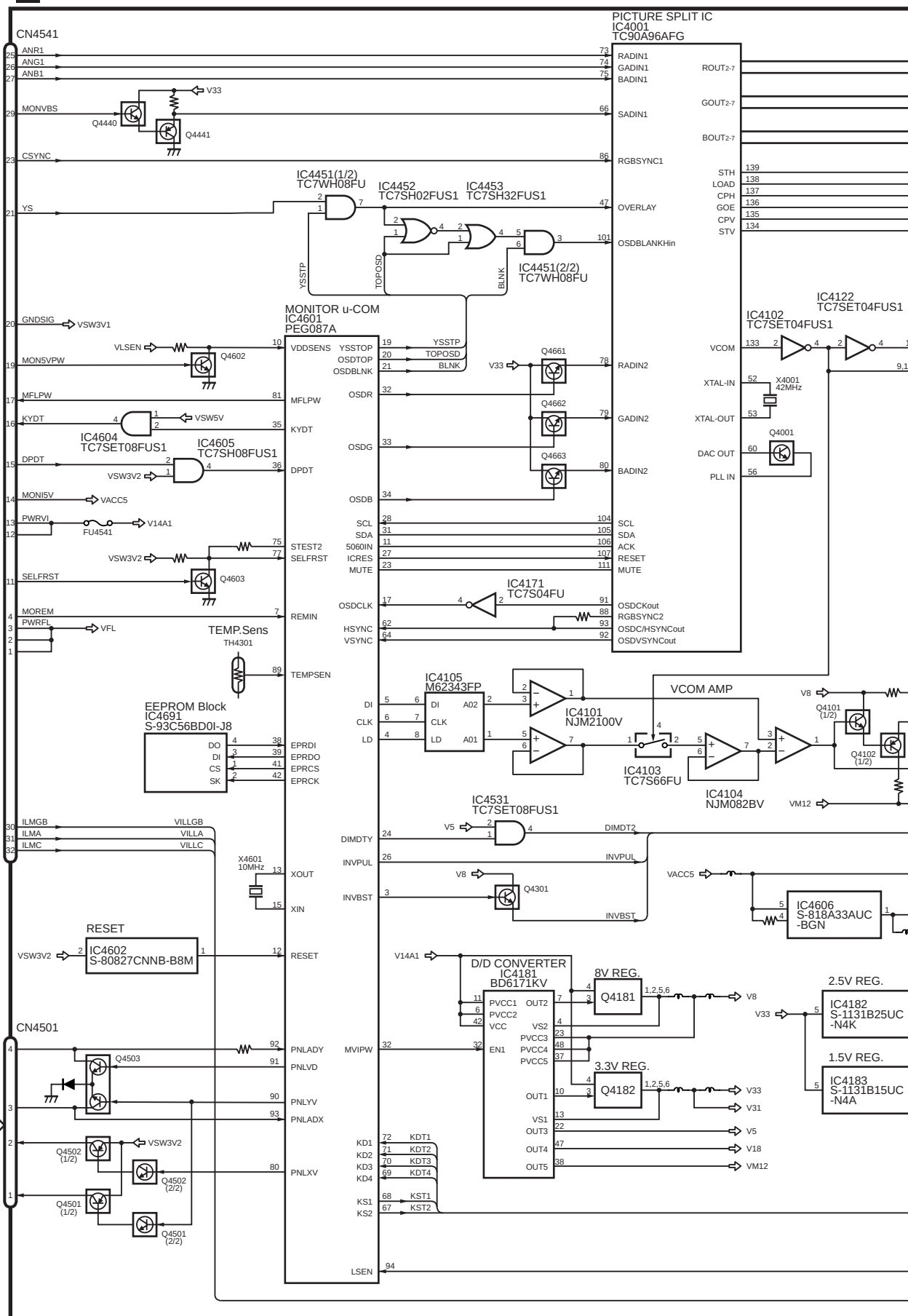
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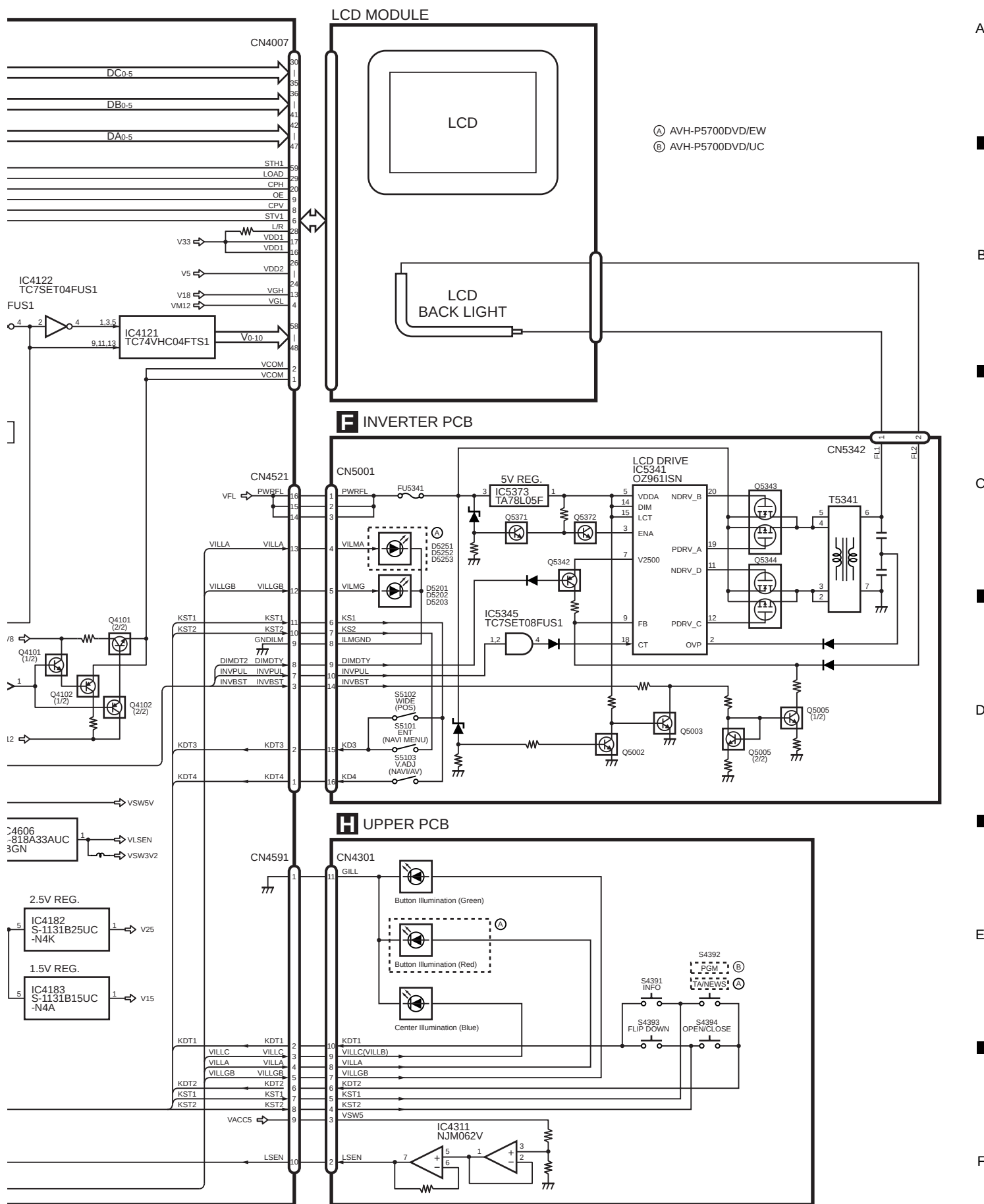
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A (2/2)CN171

TOUCH PANEL





A

- (A) AVH-P5700DVD/EW
(B) AVH-P5700DVD/UC

B

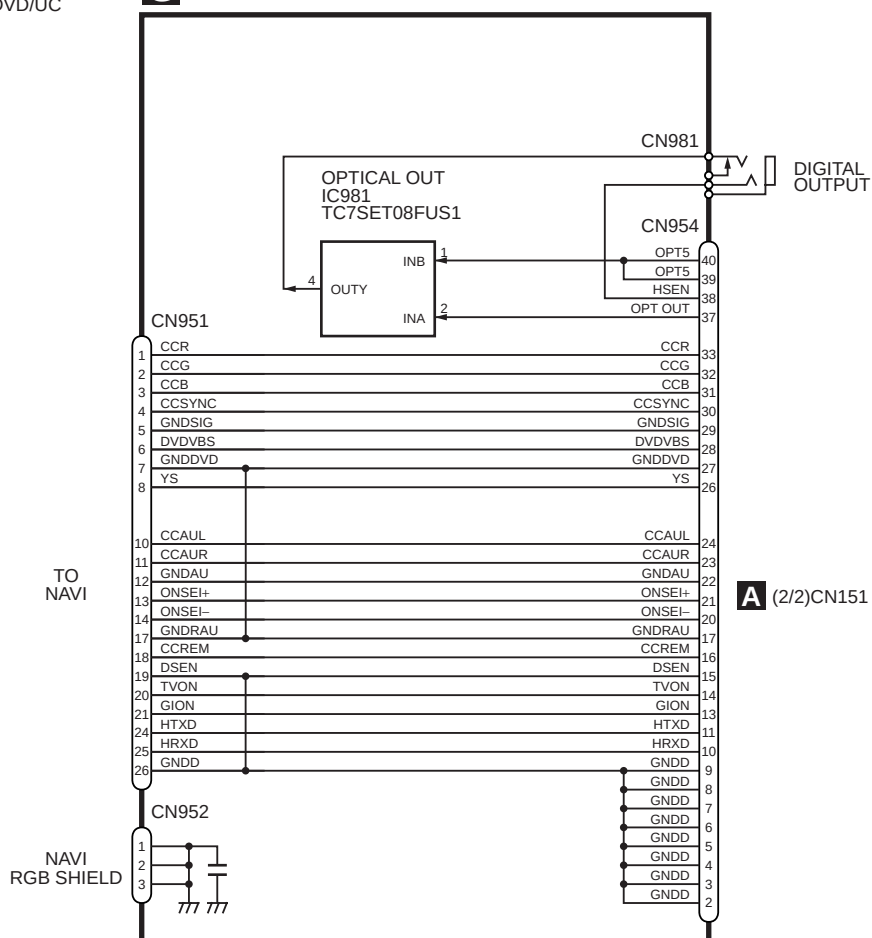
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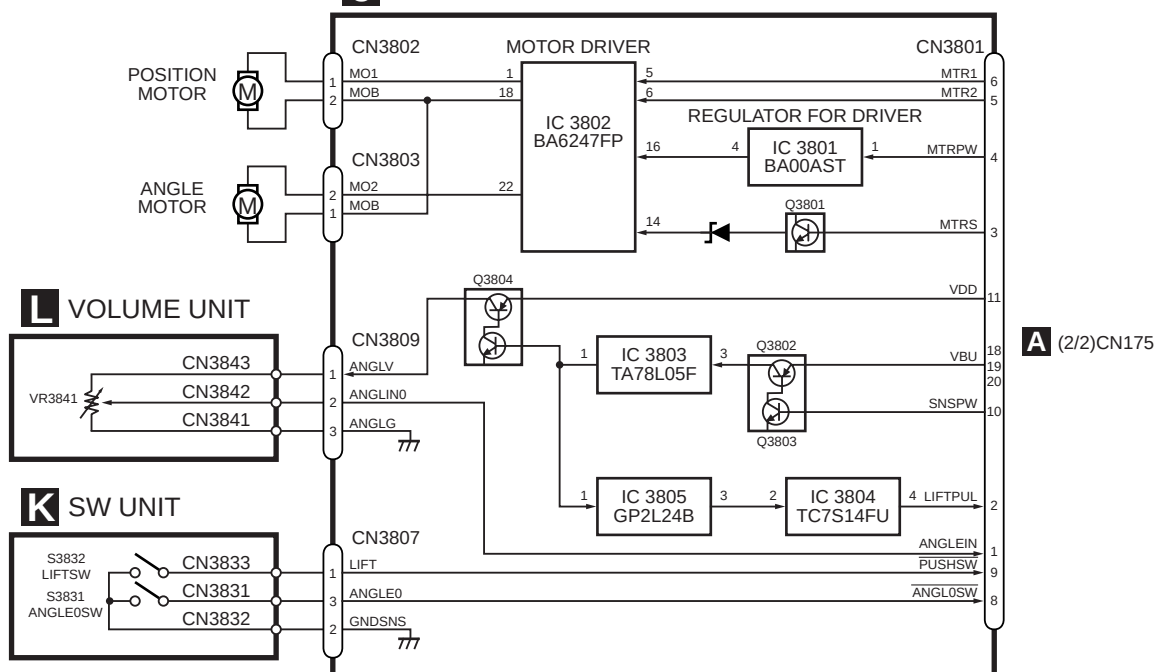
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G RGB UNIT



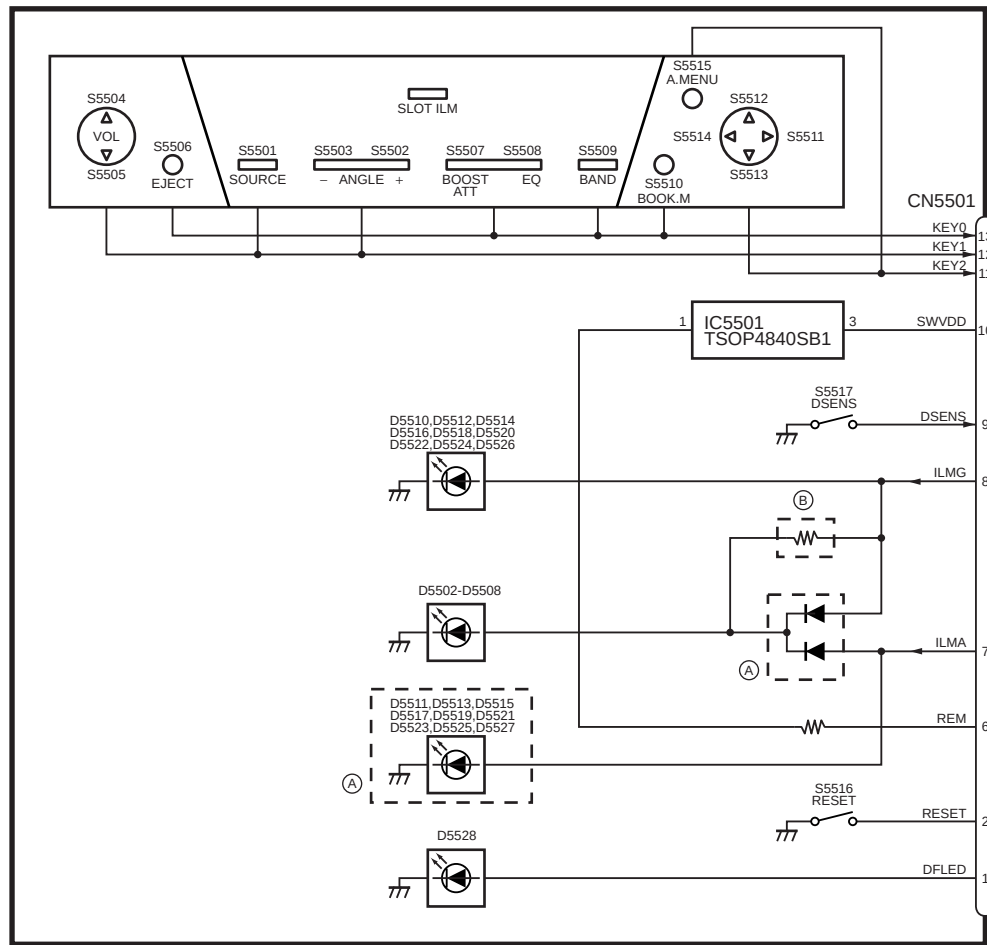
A (2/2)CN151

J MAIN UNIT



A (2/2)CN175

I KEYBOARD UNIT



A (2/2)CN101

(A) AVH-P5700DVD/EW

(B) AVH-P5700DVD/UC

C DVD CORE UNIT

A

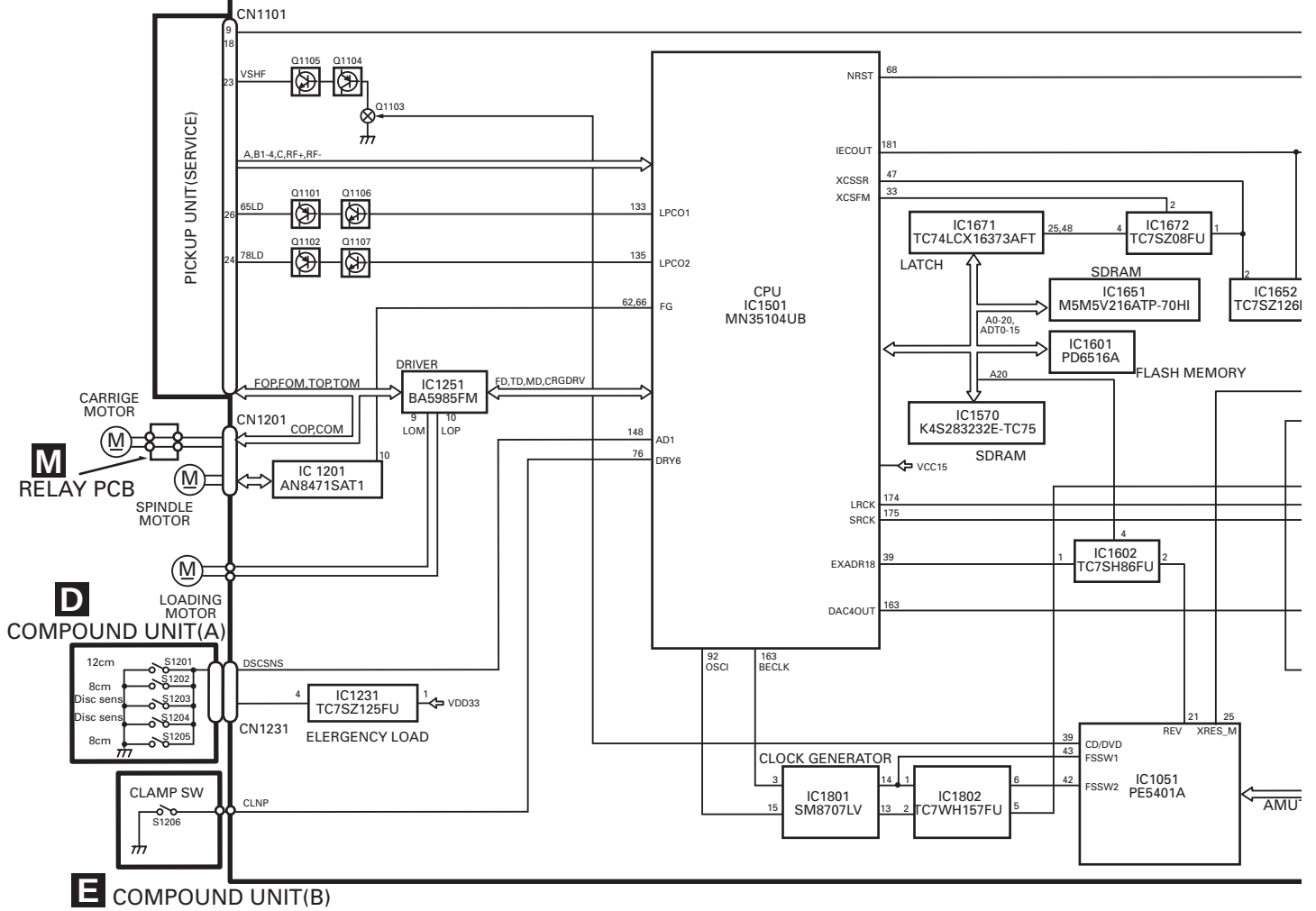
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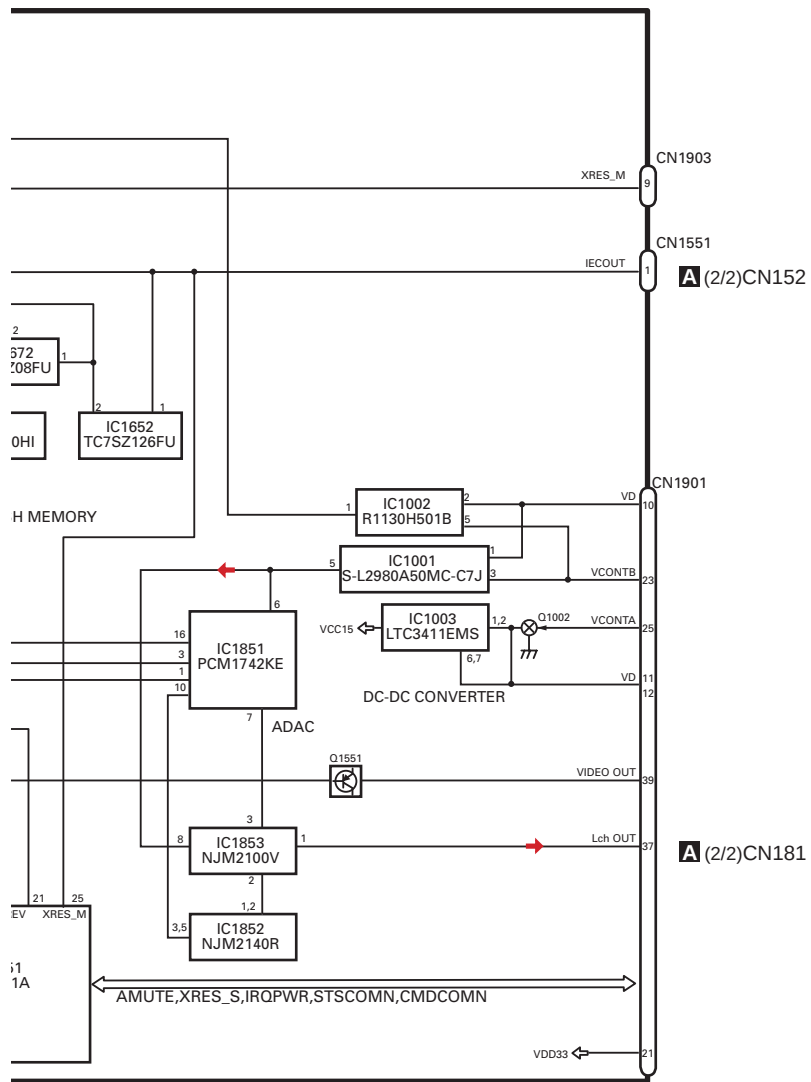
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4





4

A

Decimal points for resistor and capacitor fixed values are expressed as :

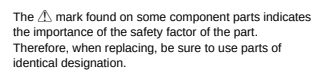
2.2→2R2
0.022→R022

E

C

[

P



—: The power supply is shown with the marked box.

—: The power supply is shown with the marked box.

A_{1/2}

A

B

C

D

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F

A-b 1/2

B CN4541

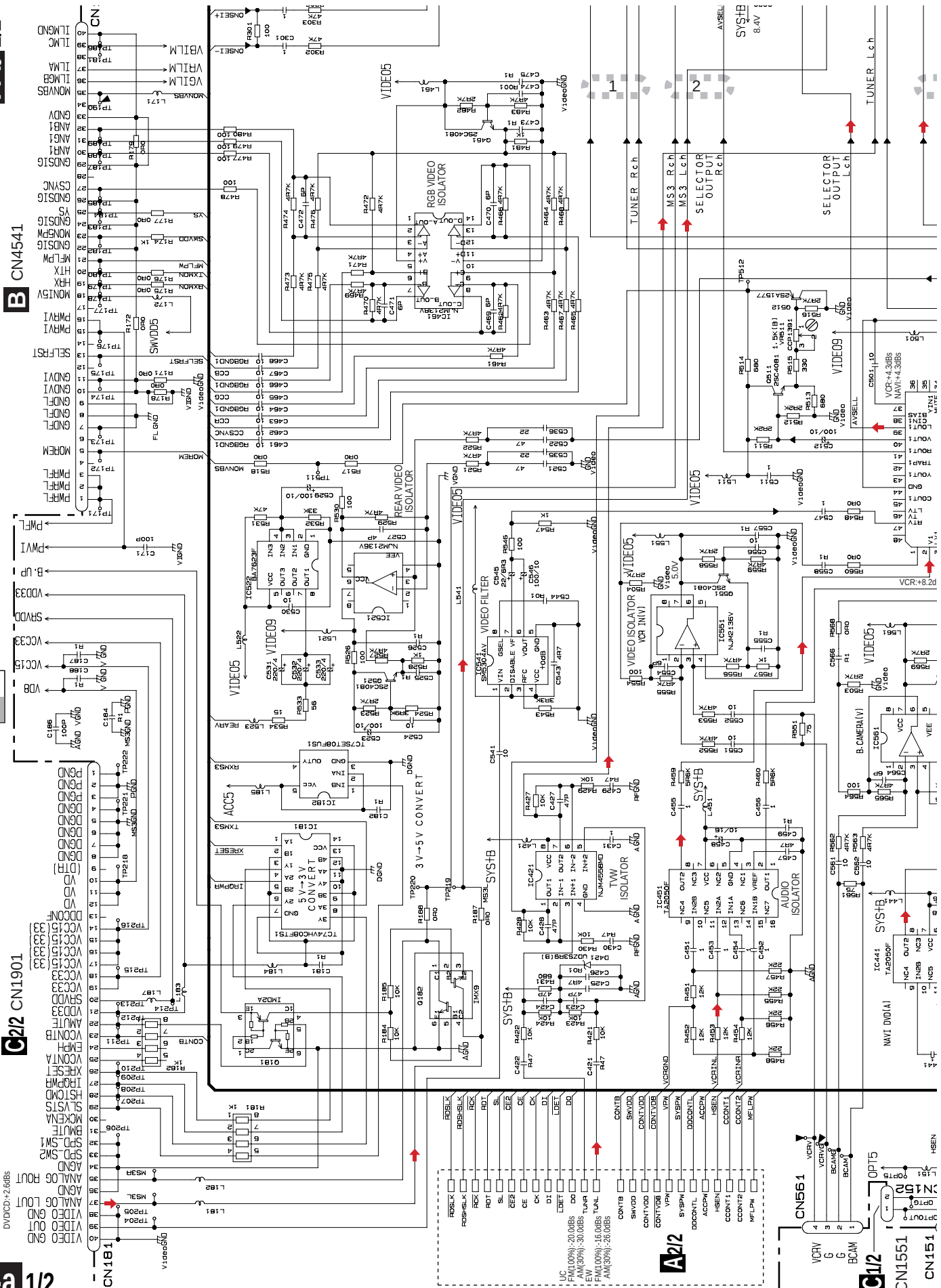
A-a A-b

C22 CN1901

A-a 1/2

A2/2

C1/2





E

NOTE:

A-a	A-b
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 Symbol indicates a resistor.

No differentiation is made between chip resistors and discrete resistors.

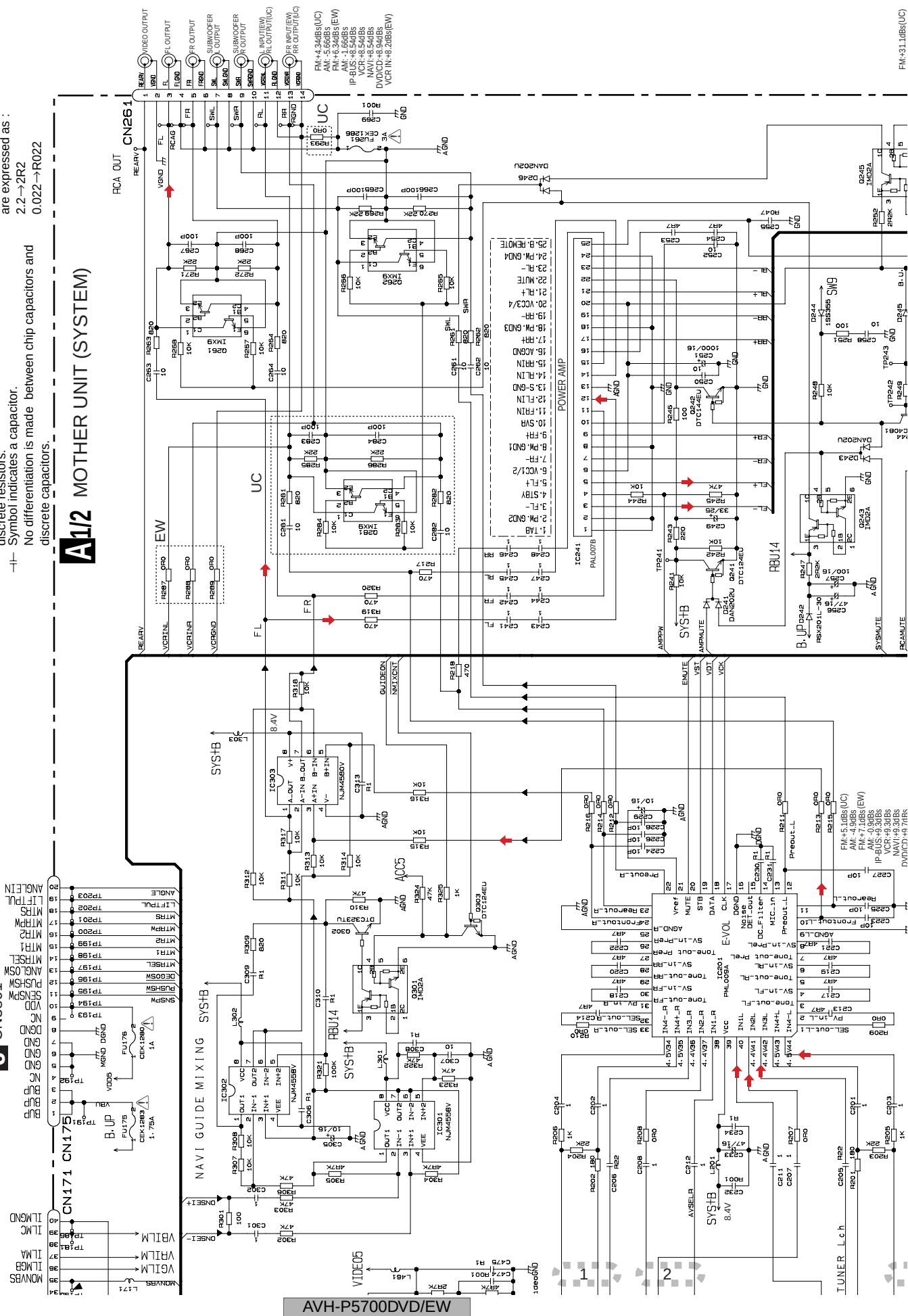
—||— Symbol indicates a capacitor.

No differentiation is made between chip capacitors and discrete capacitors.

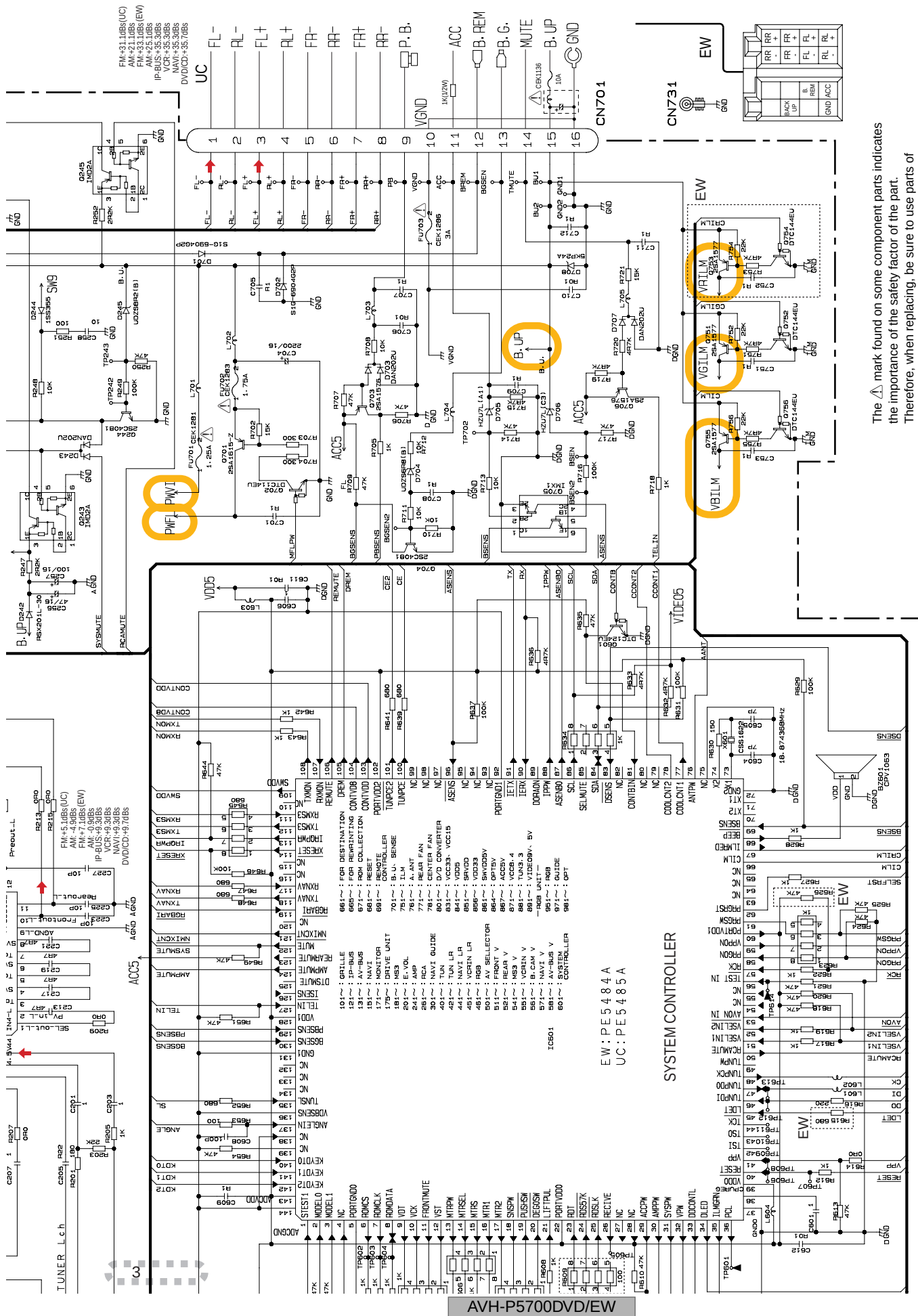
Decimal points for resistor and capacitor fixed values are expressed as :
2.2→2R2
0.022→R022

A-b $1/2$

CN3801



EM: +31.1dBs(UC)



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.

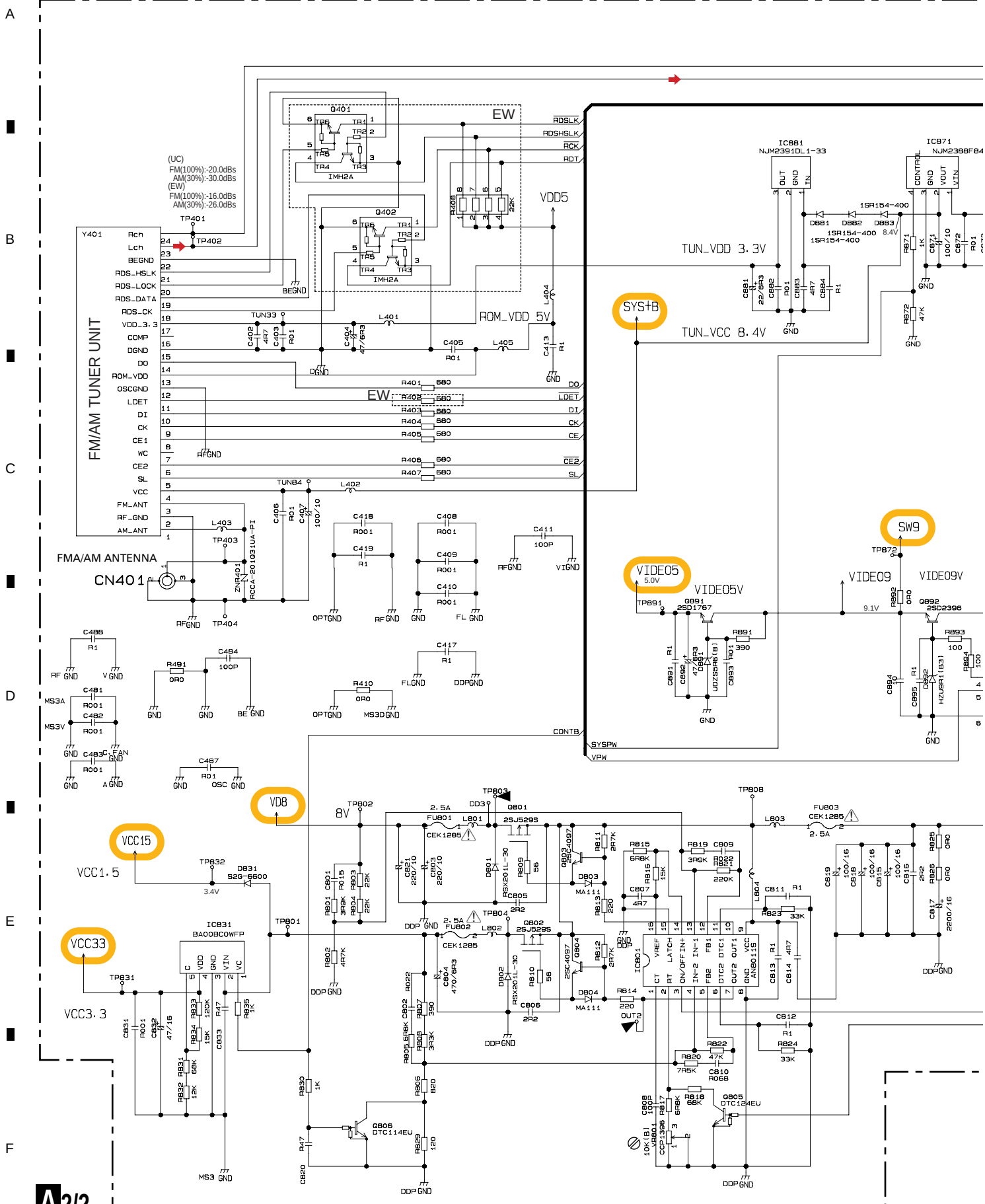
 : The power supply is shown with the marked box.

A-b 1/2

A-a A-b

A B C D E F

3.4 MOTHER UNIT(POWER SUPPLY)



A

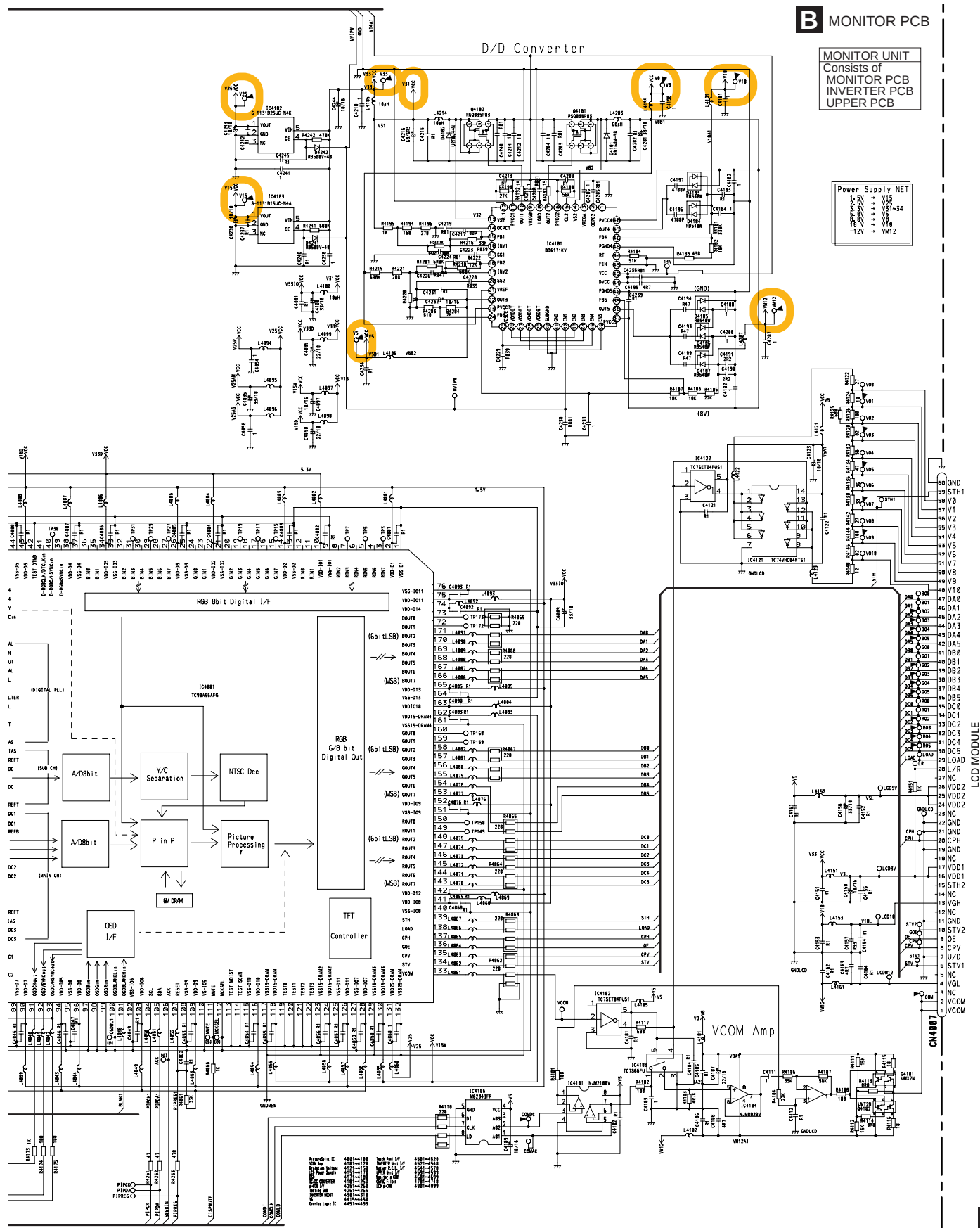


B-b

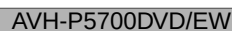
B MONITOR PCB

MONITOR UNIT
Consists of
MONITOR PCB
INVERTER PCB
UPPER PCB

Power Supply NET
+5V
+12V
+18V
-12V
V18
VM12



B-a





A

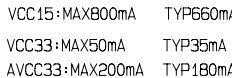
B

C

D

F

F



A



C

[

F

P

A

B

C

D

E

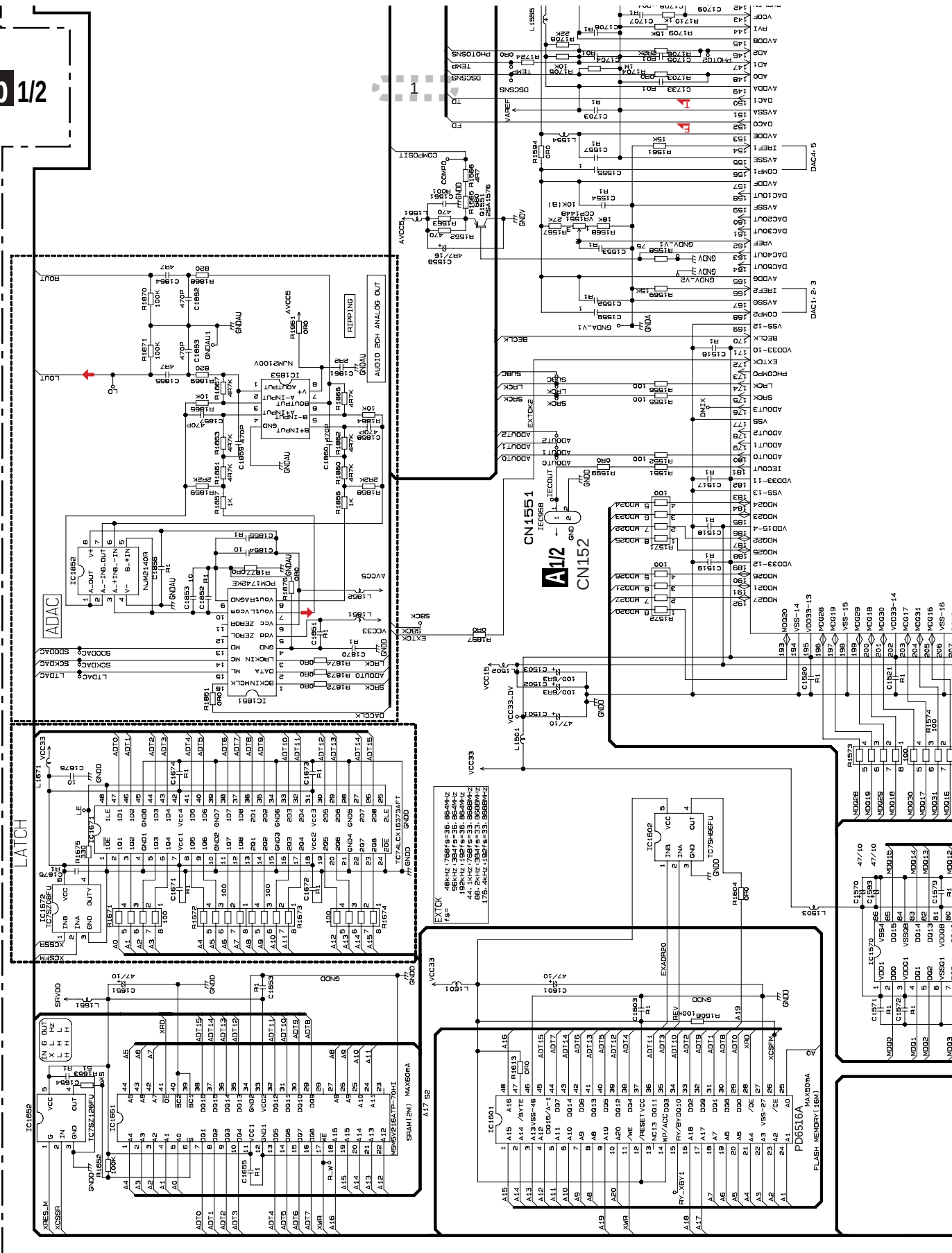
F

C-b 1/2

C-a C-b
(1/2) (1/2)

C-a 1/2

AVH-P5700DVD/EW



DV1.3

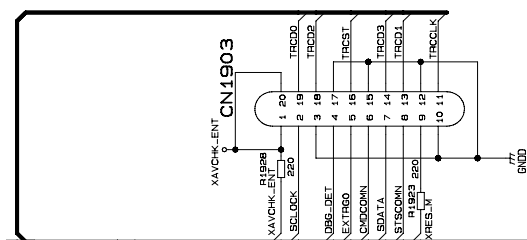
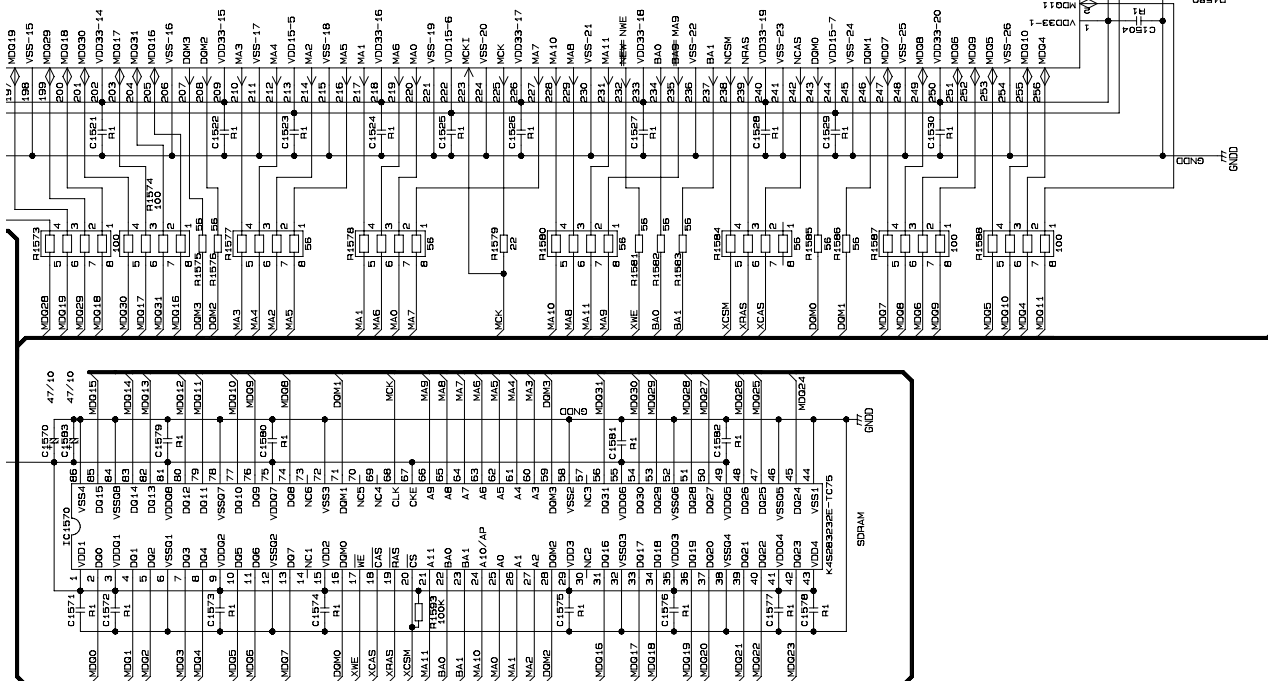
IC1501

MN35104UB

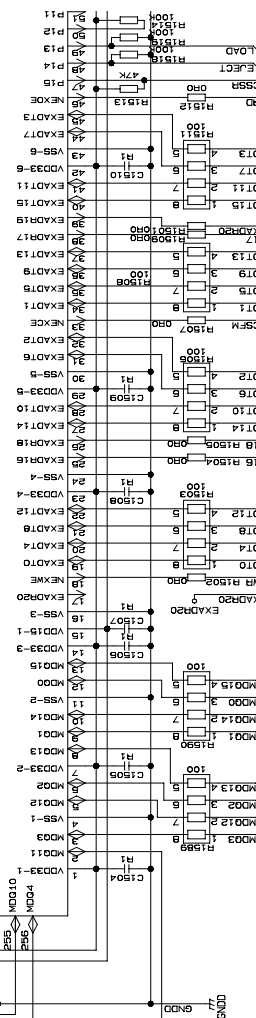
VCC15: MAX800mA TYP66i

VCC33: MAX50mA TYP35r

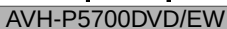
AVCC33: MAX200mA TYP18i



C-b 1/2

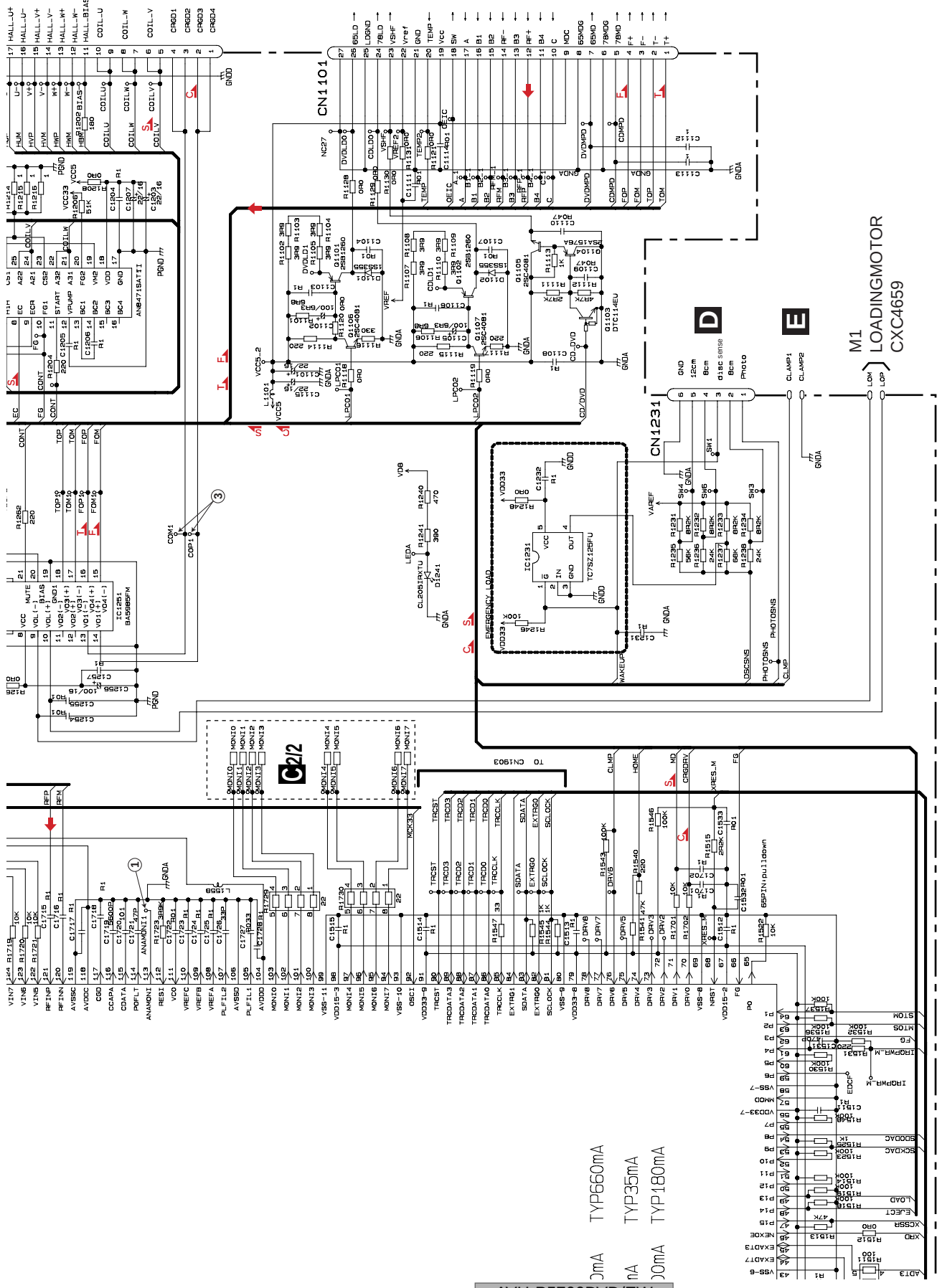
C-a C-b
(1/2) (1/2)

C-a 1/2



M3 SPINDLE MOTOR
CXM1272

PICKUP UNIT(SERVICE)



AVH-P5700DVD/EW

C-b 1/2

C-a C-b
(1/2) (1/2)

A B C D E F

4

C2/2

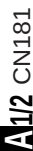


<MAIN- SUB MICRO>



<HOST - MAIN>

4



Waveforms

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

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

: 2V Center(ANAMONI1)

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

Offset of 1.65V or 2V is put in.

A

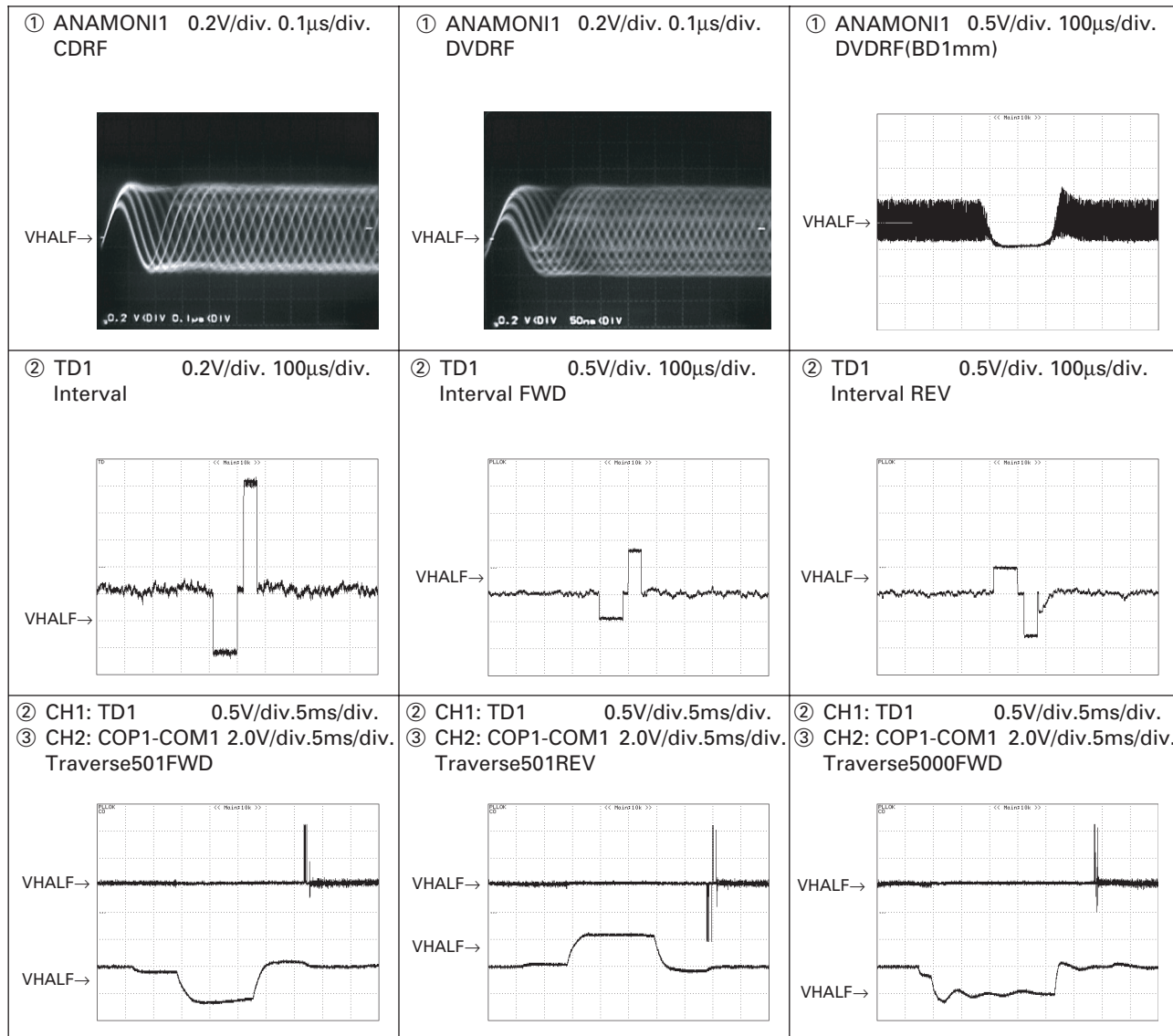
B

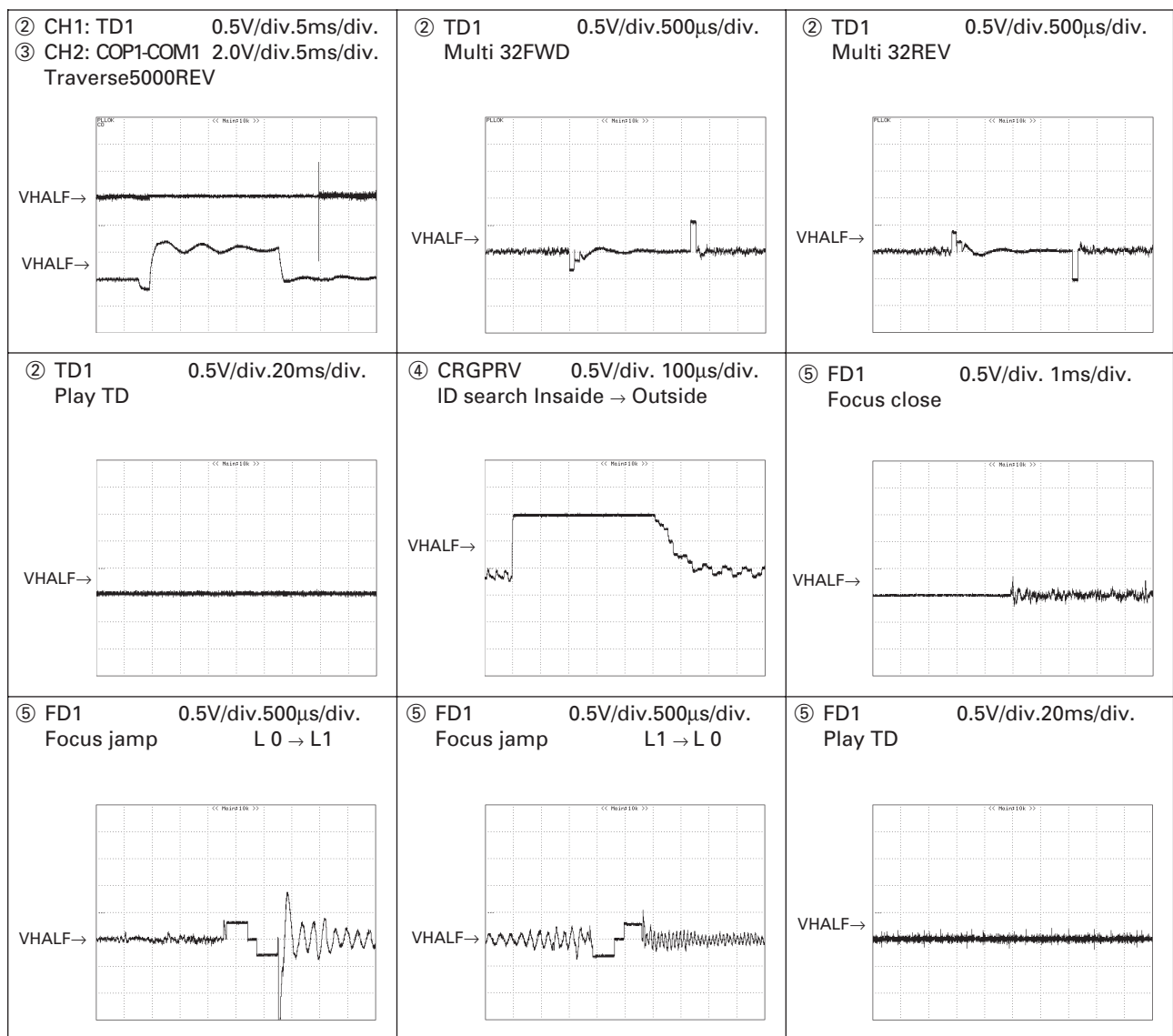
C

D

E

F



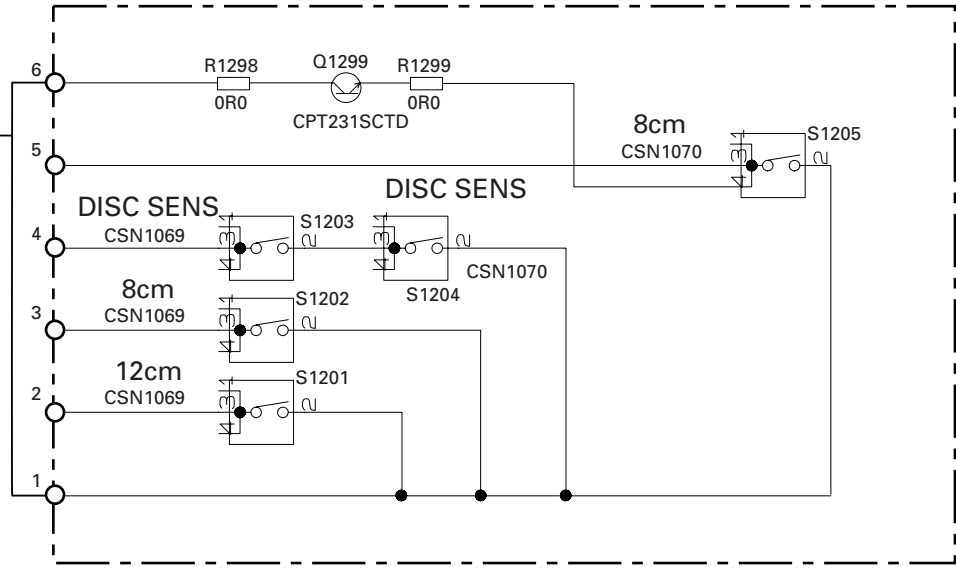


3.8 COMPOUND UNIT(A), COMPOUND UNIT(B) AND RELAY PCB

A

D COMPOUND UNIT(A)

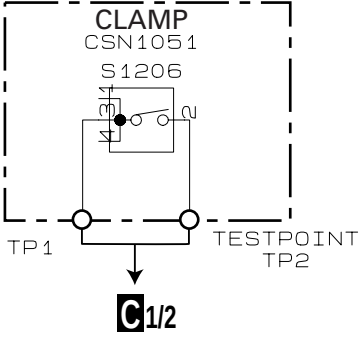
C1/2
CN1231



B

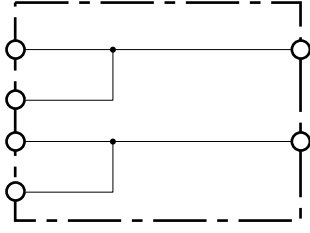
C

E COMPOUND UNIT(B)



M RELAY PCB

C1/2
CN1201



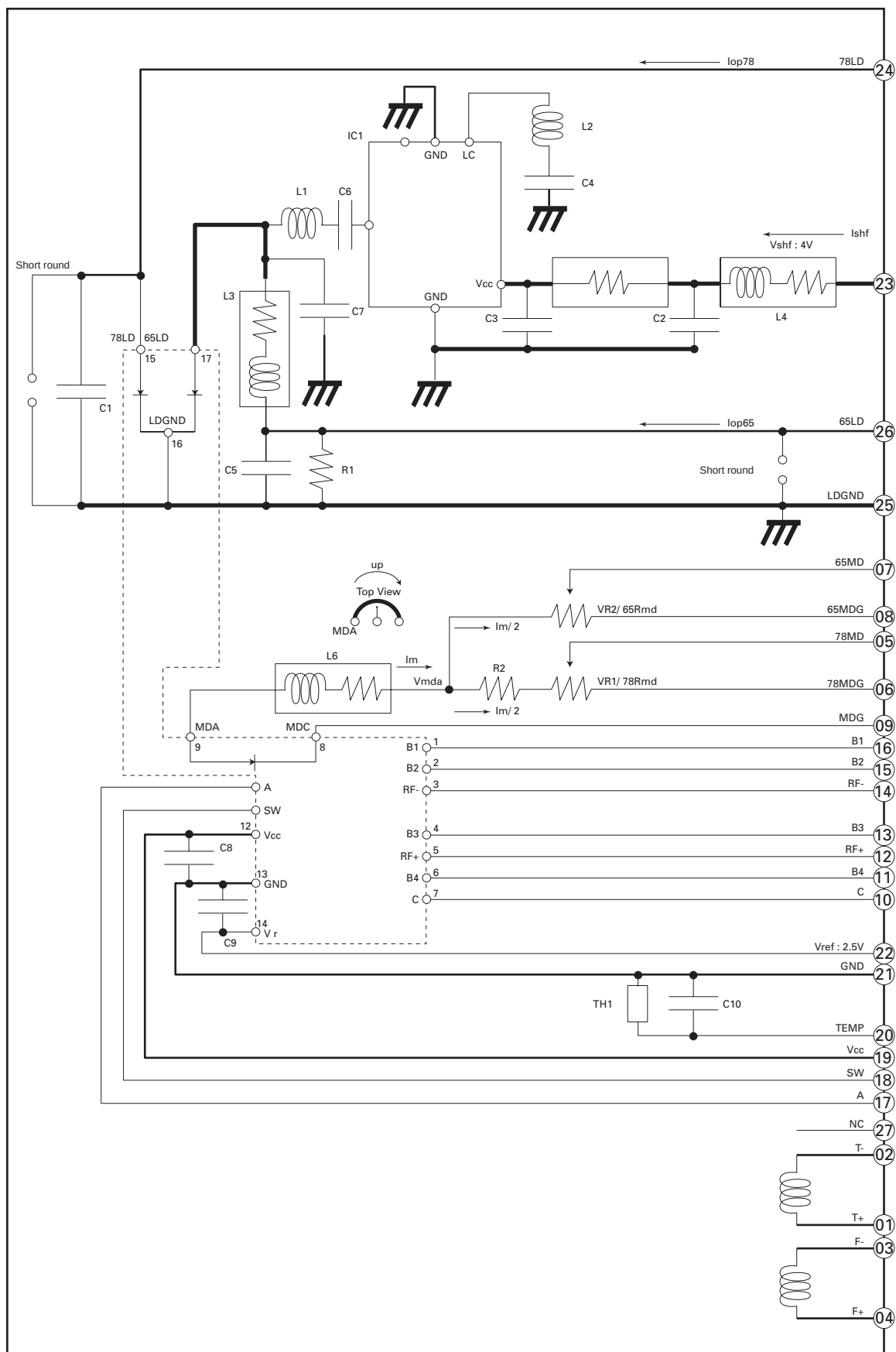
M2
CARRIAGE MOTOR
CXC4314

E

F

DEM

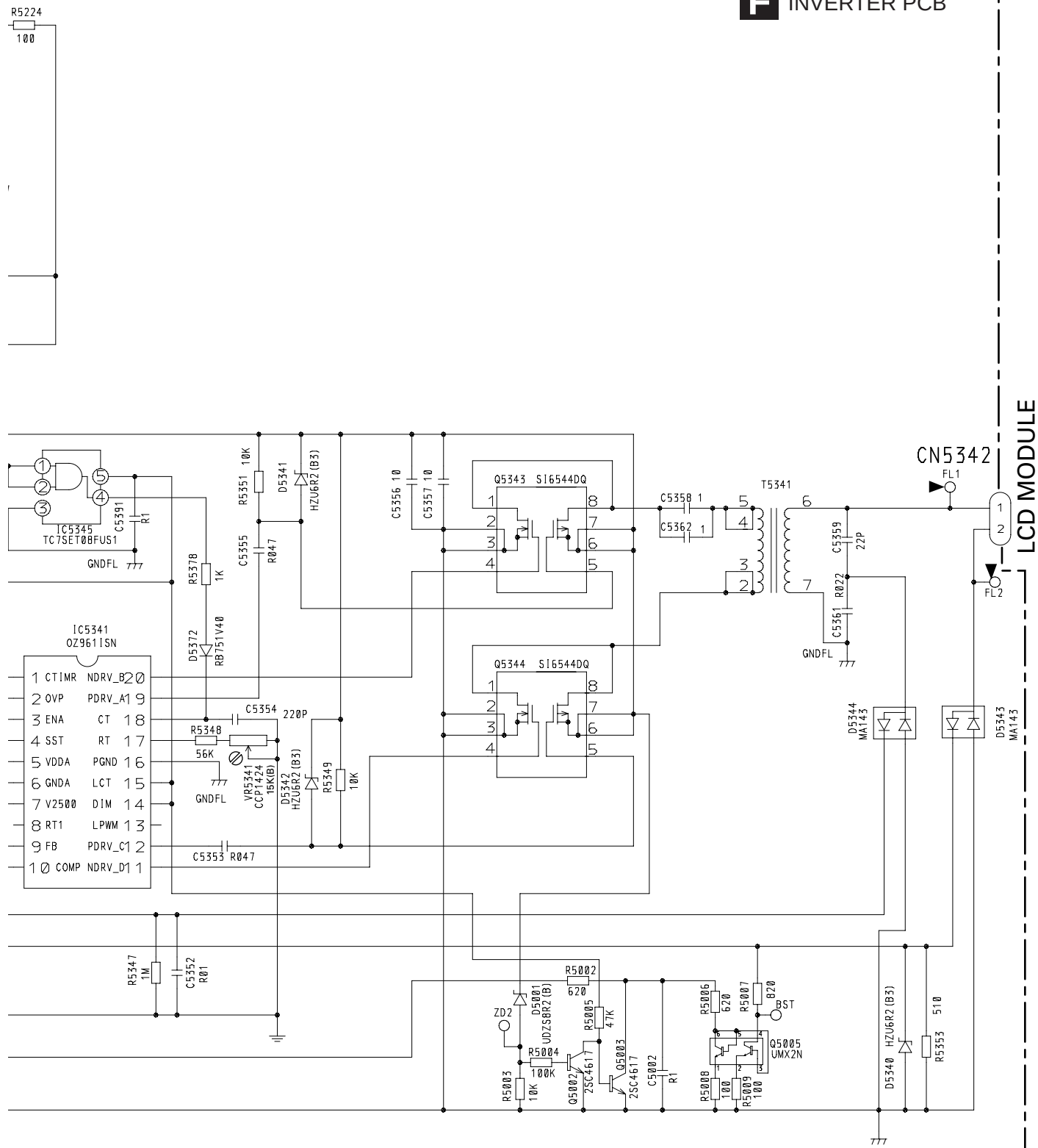
3.9 PU UNIT(REFERENCE)



C1/2
CN1101

4

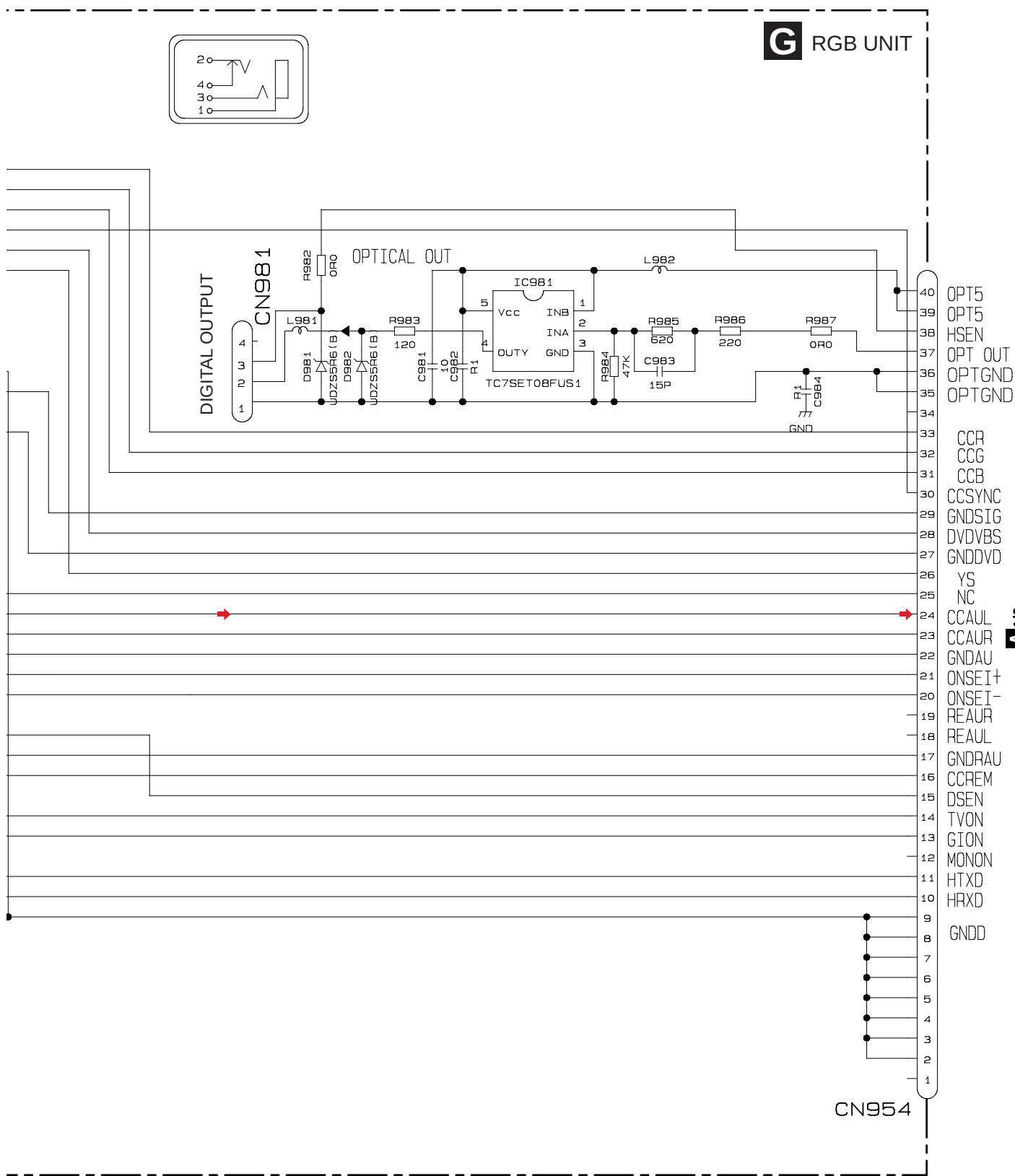
F INVERTER PCB



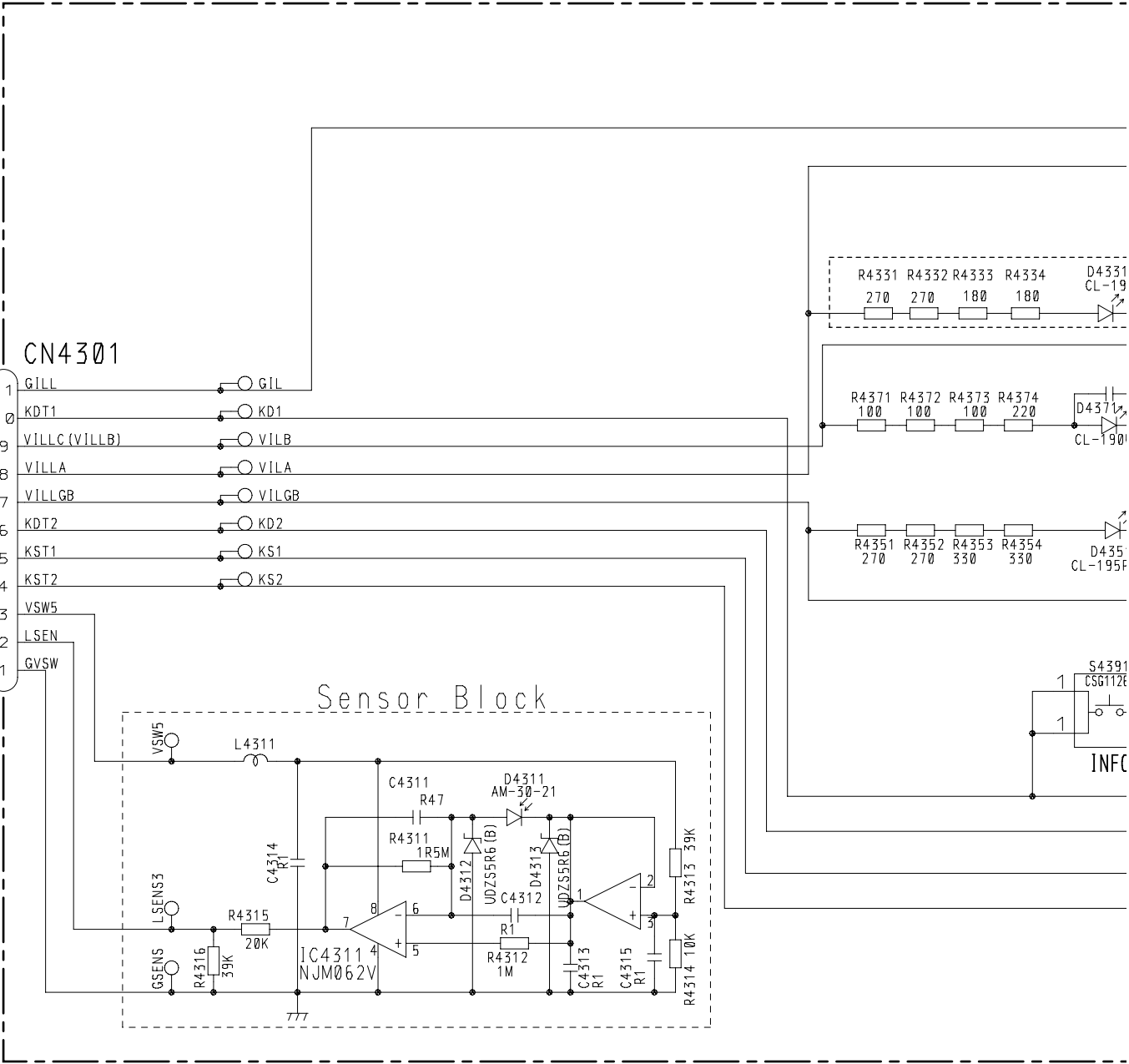
4

F





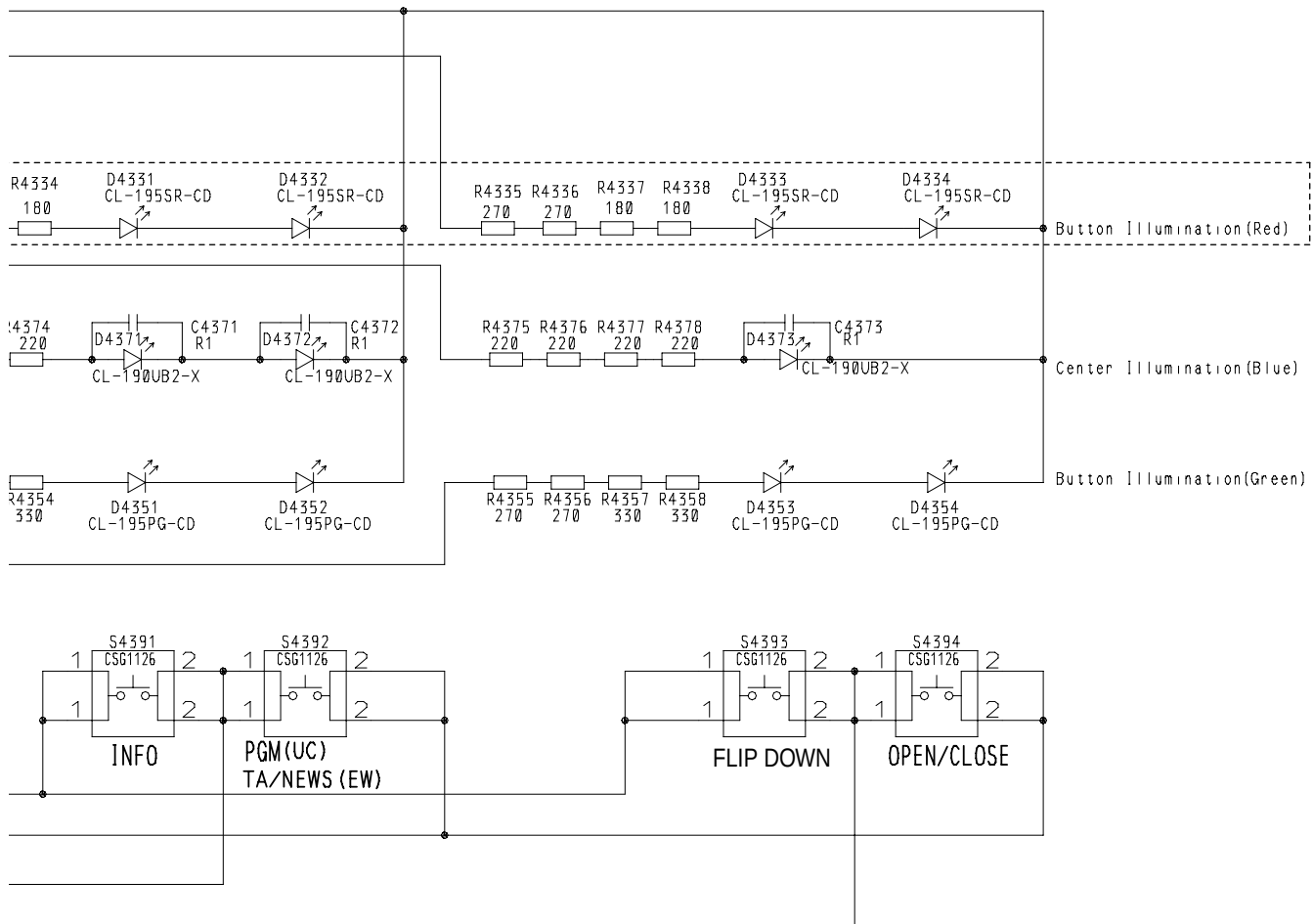
3.12 UPPER PCB



H

MONITOR UNIT
Consists of
MONITOR PCB
INVERTER PCB
UPPER PCB

H UPPER PCB



3.13 KEYBOARD UNIT

A

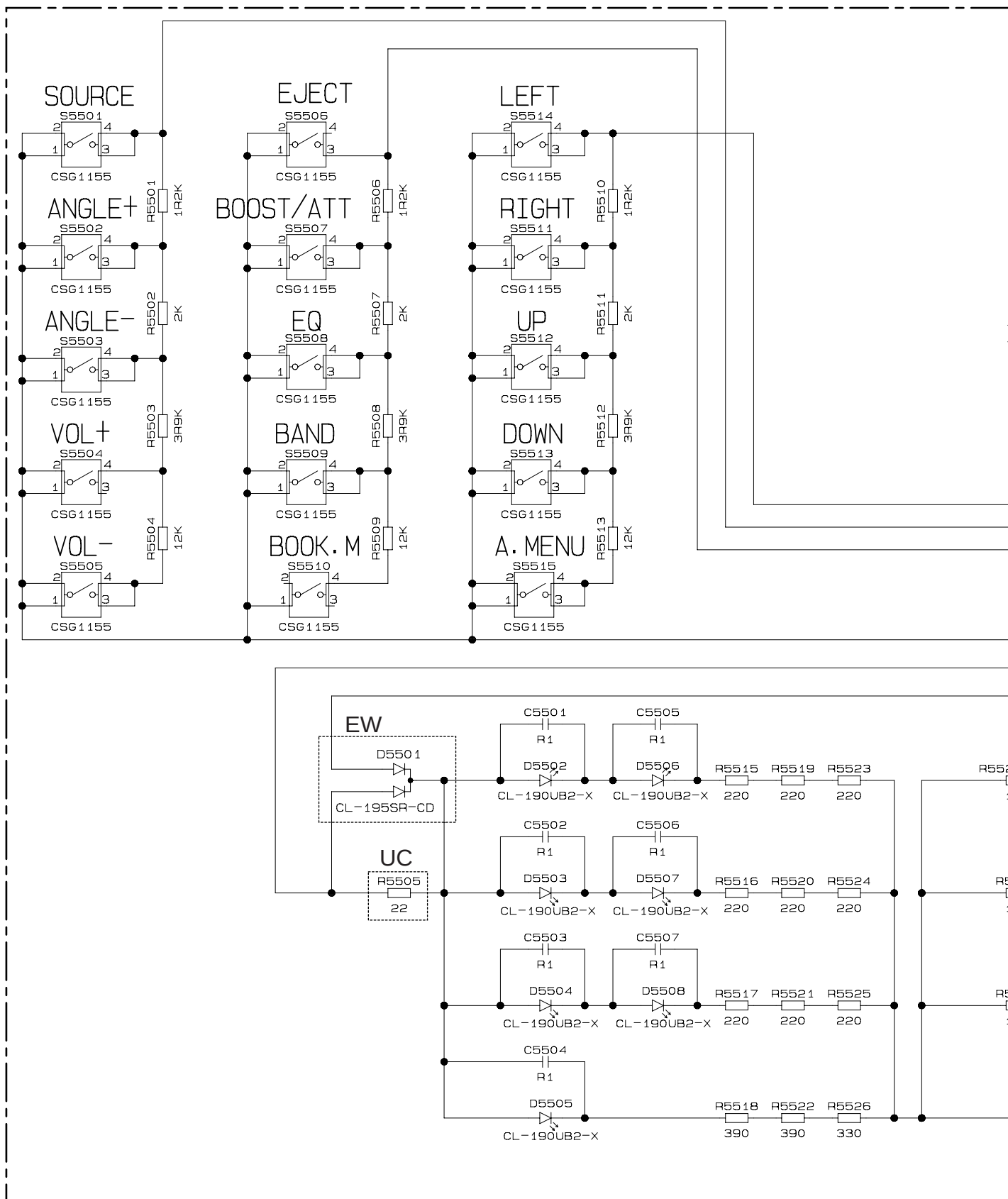
B

C

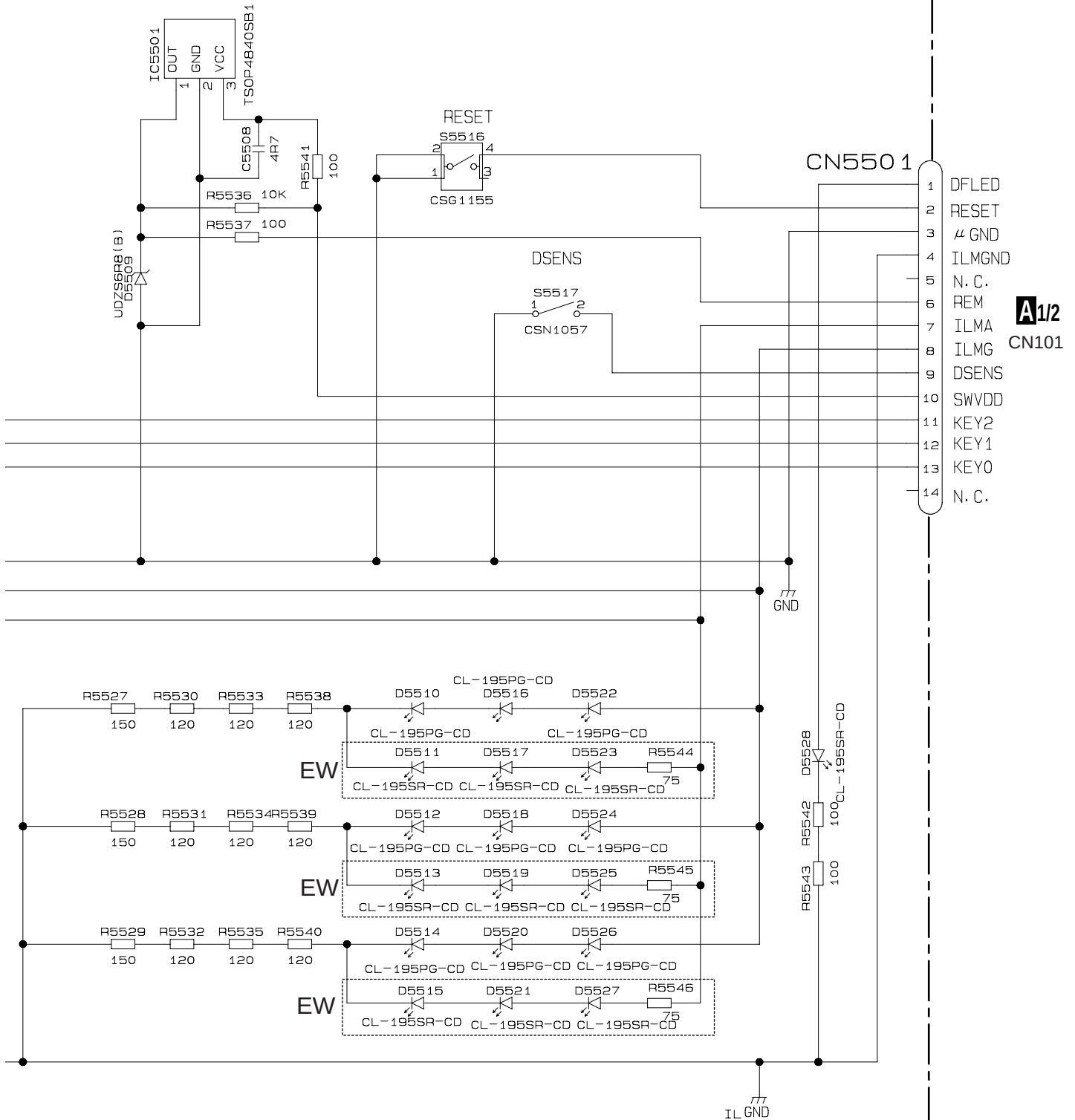
D

E

F



KEYBOARD UNIT



4

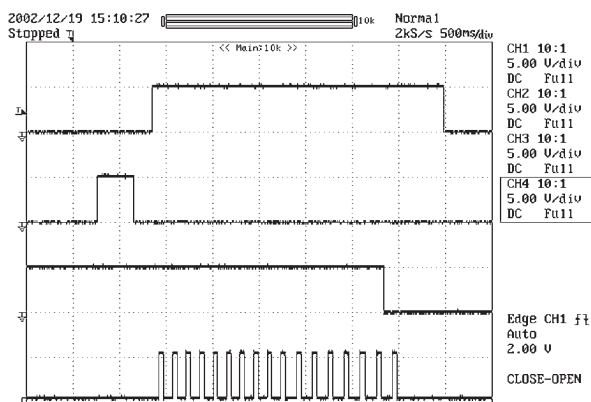


Waveforms

The encircled number denote measuring points in the circuit diagram.

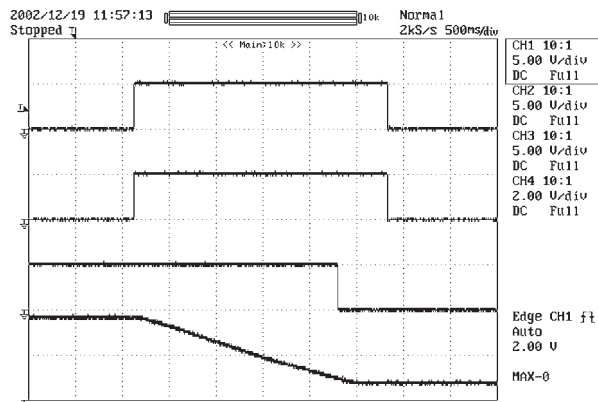
• CLOSE -> OPEN

- ① CH1:MTR2 ② CH2:MTRSEL
③ CH3:LIFTSW ④ CH4:LFTPLS



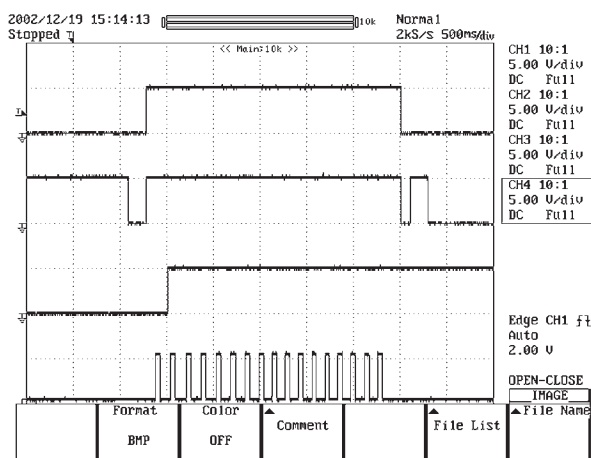
• MAX -> Deg.0 DOWN

- ⑤ CH1:MTR1 ② CH2:MTRSEL
⑥ CH3:ANGLSW ⑦ CH4:ANGLIN



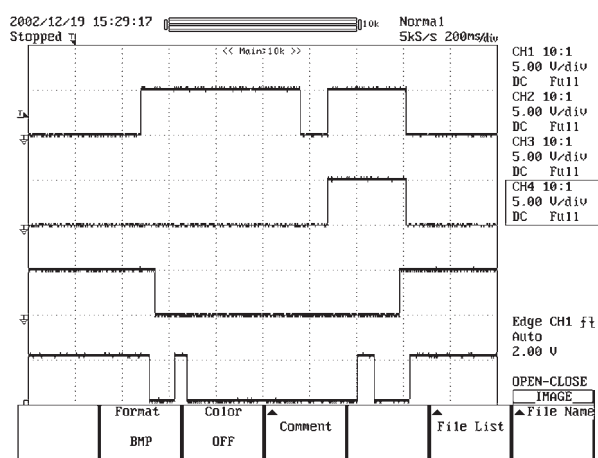
• OPEN -> CLOSE

- ① CH1:MTR2 ② CH2:MTRSEL
③ CH3:LIFTSW ④ CH4:LFTPLS



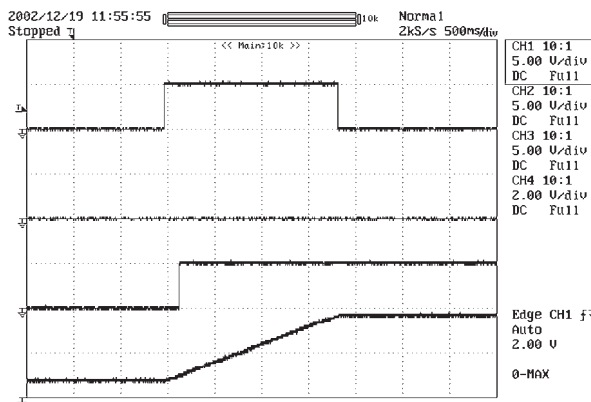
• Set back open -> Set

- ① CH1:MTR2 ⑧ CH2:MTRS
③ CH3:LIFTSW ④ CH4:LFTPLS



• 0->MAX

- ⑤ CH1:MTR1 ② CH2:MTRSEL
⑥ CH3:ANGLSW ⑦ CH4:ANGLIN



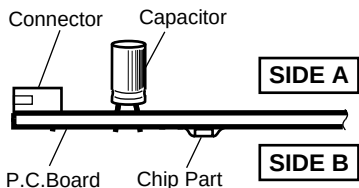
4. PCB CONNECTION DIAGRAM

4.1 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

G CN954

C CN1901

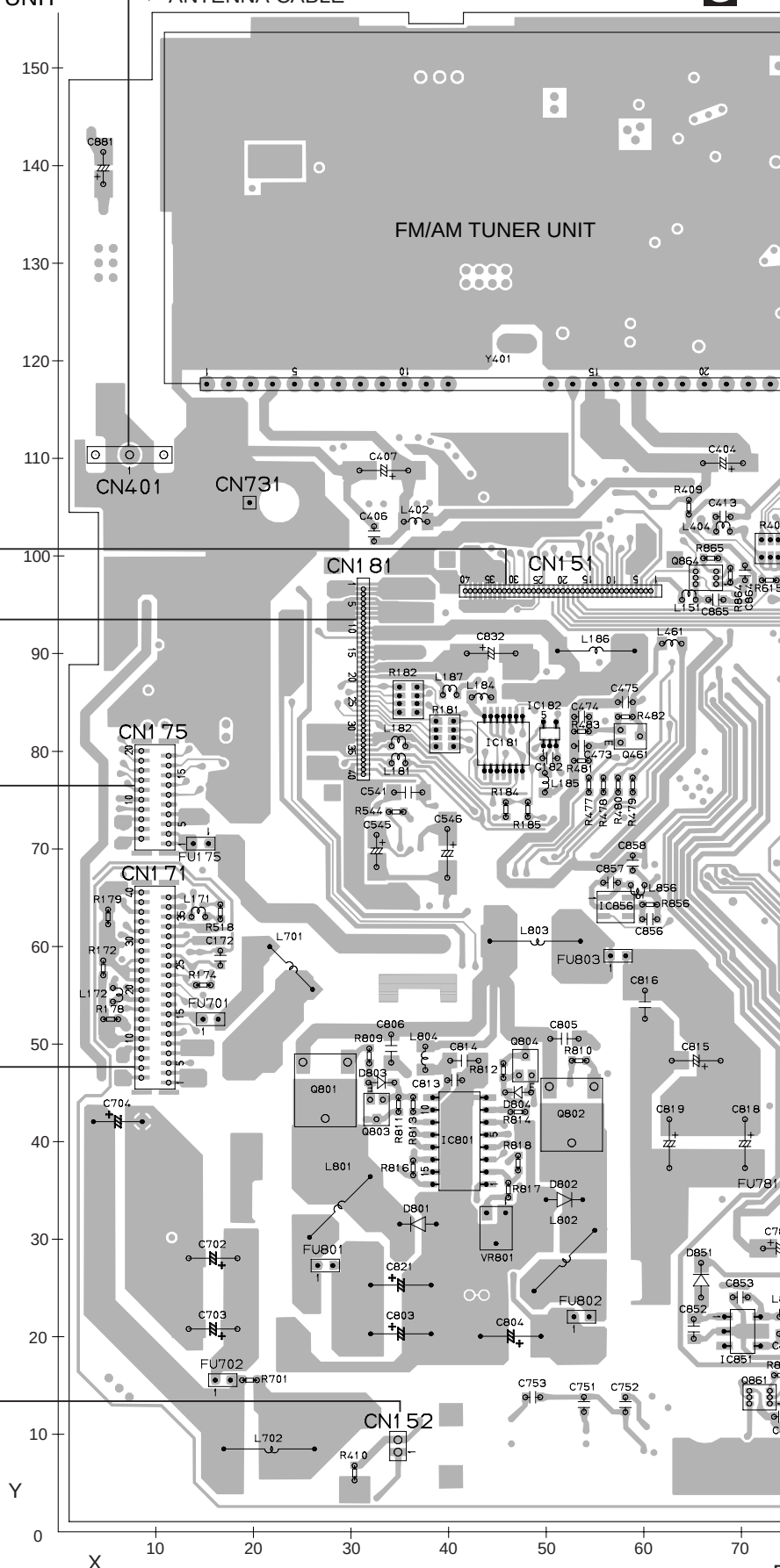
J CN3801

B CN4541

C CN1551

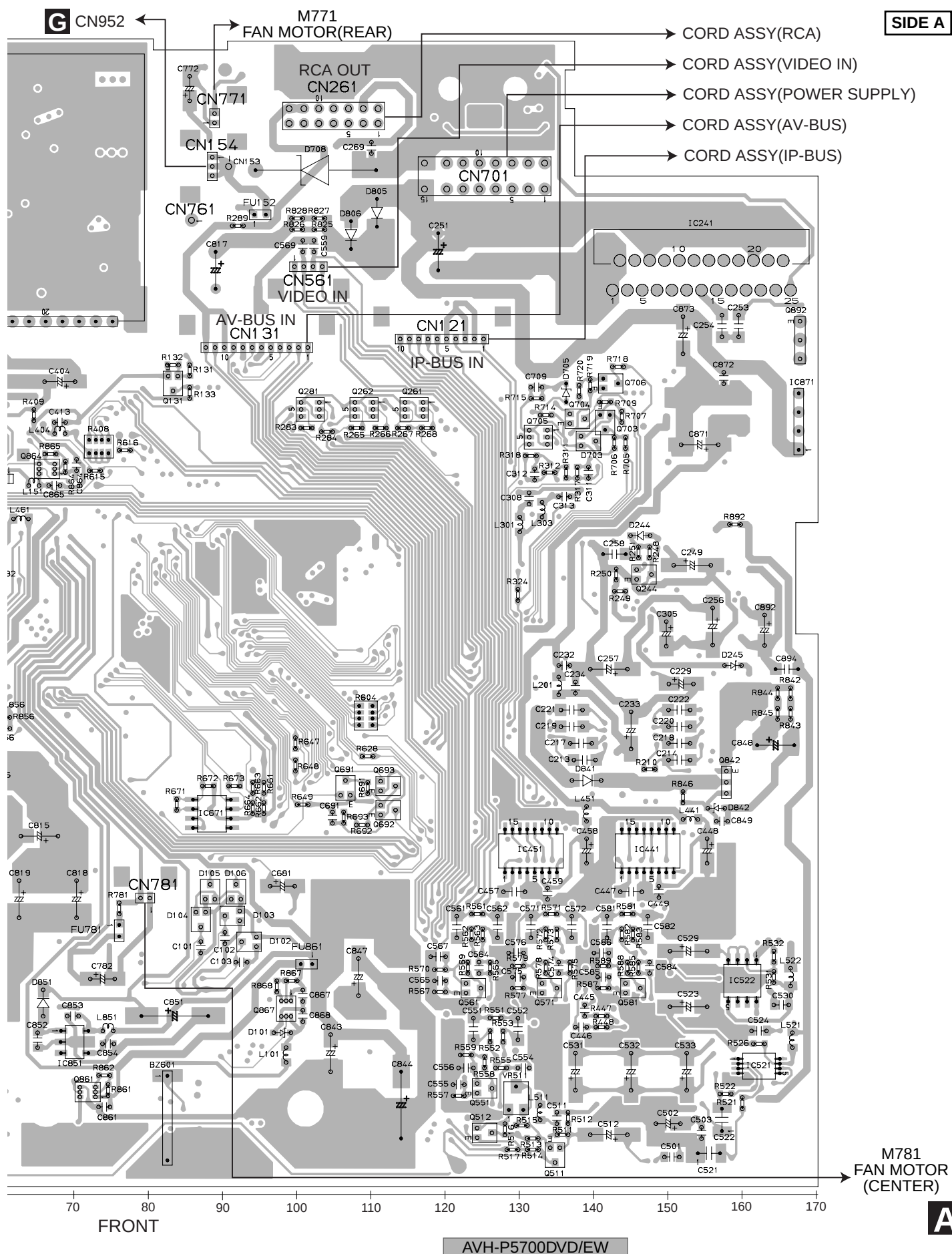
ANTENNA CABLE

G CN9

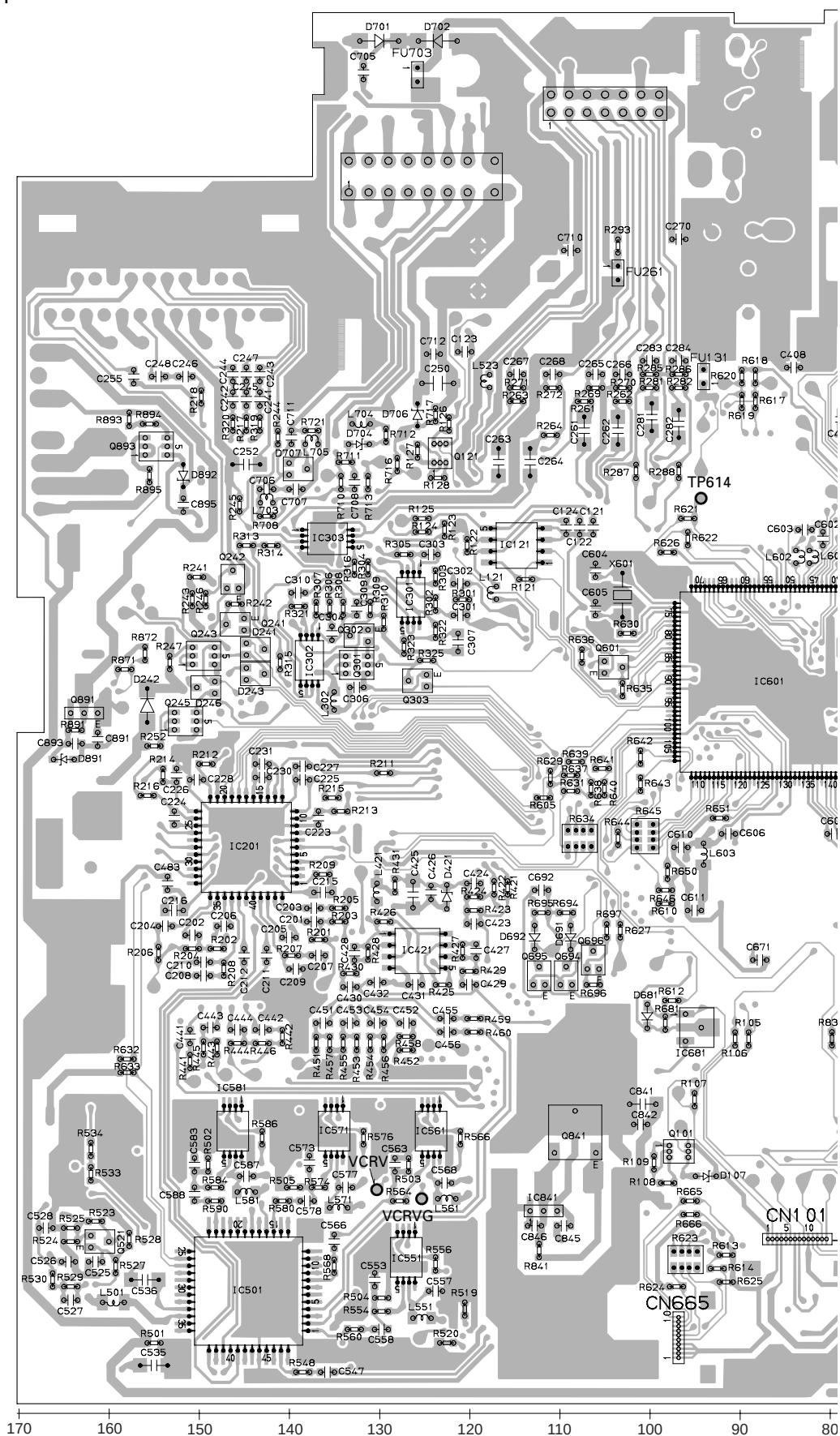


A

AVH-P5700DVD/EW



A MOTHER UNIT



SIDE B

A

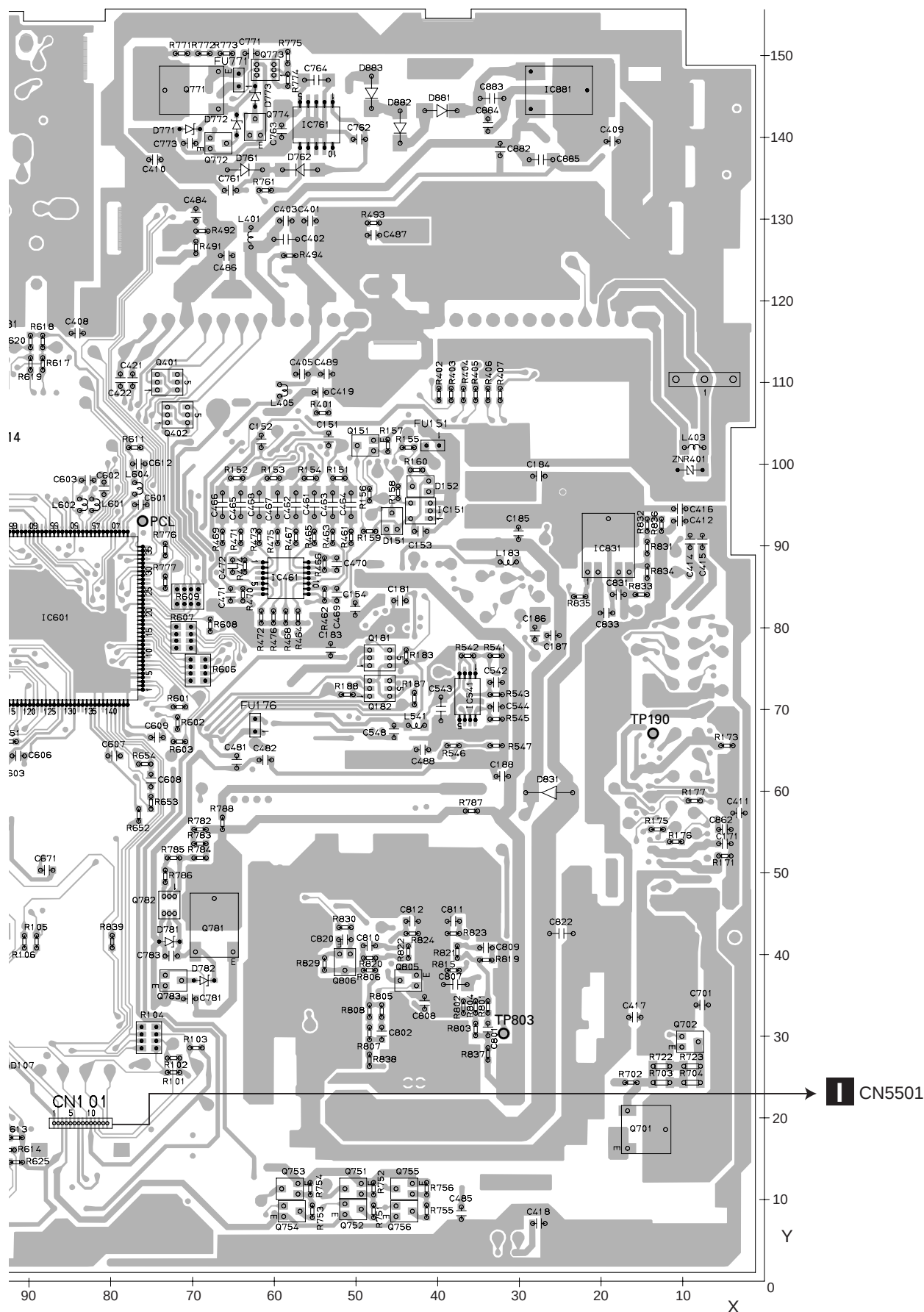
B

C

D

E

F



1

2

3

4

B MONITOR PCB



C

D

E

F

B

AVH-P5700DVD/EW

80

1

2

3

4

A

B MONITOR PCB

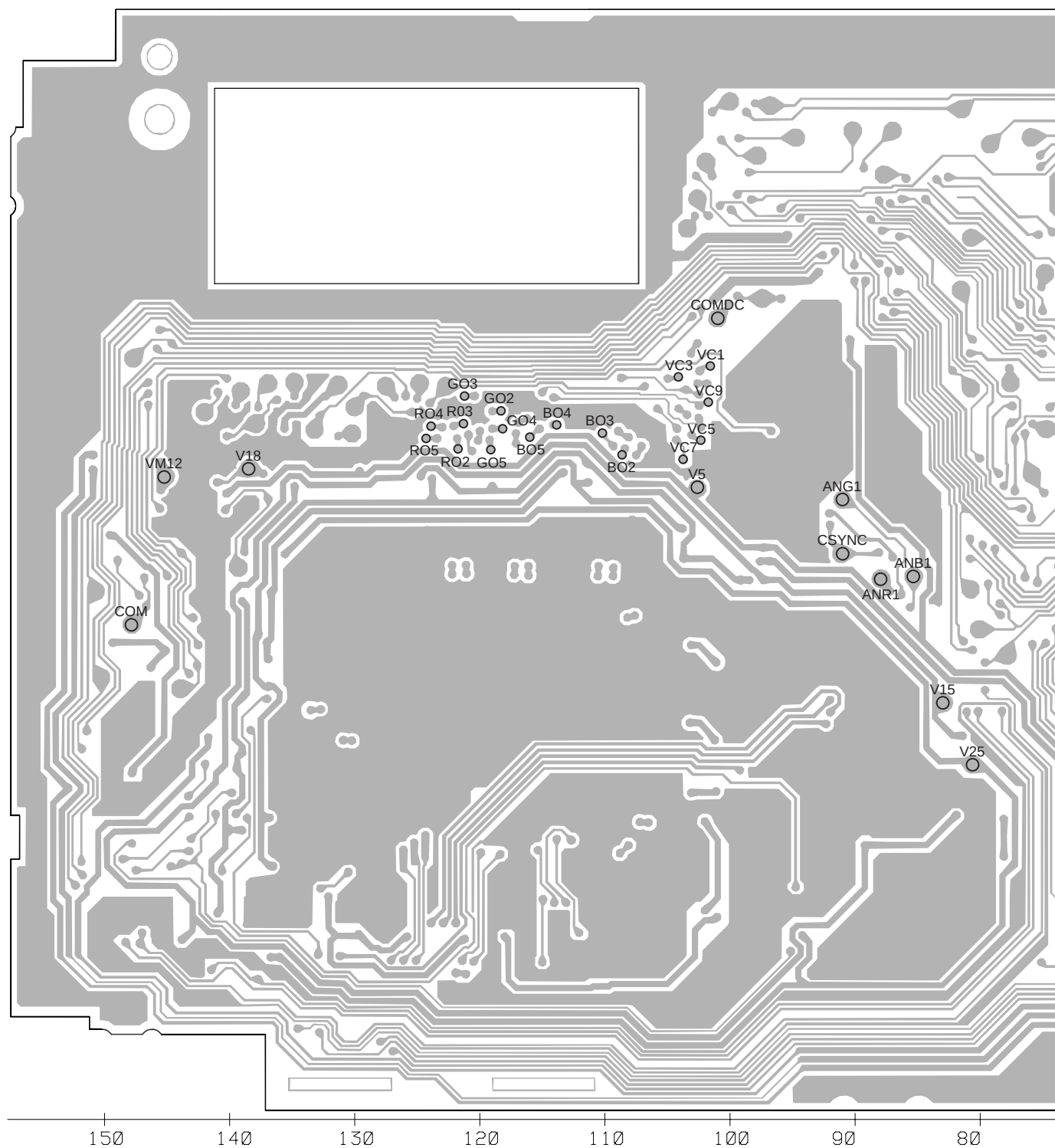
B

C

D

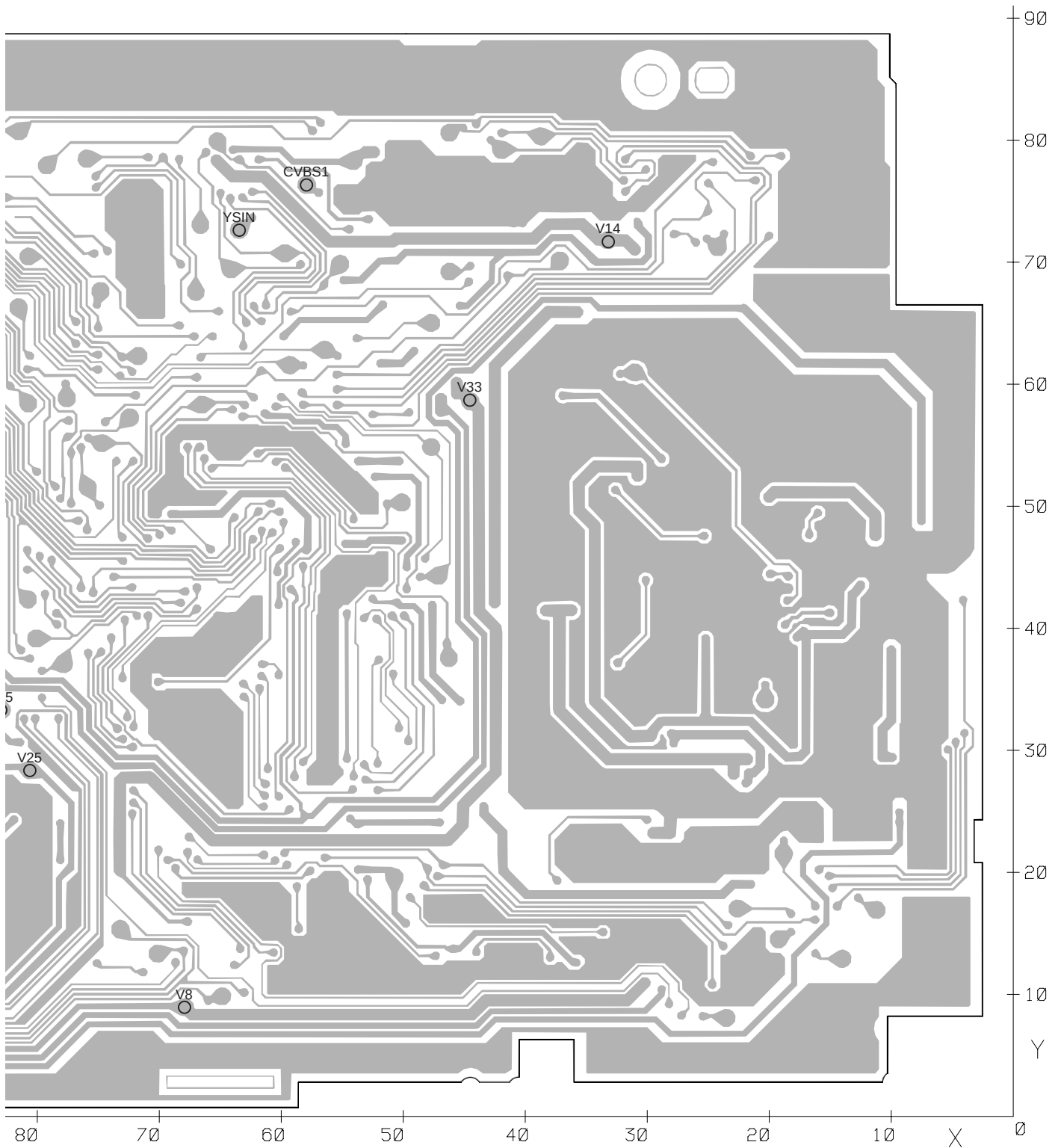
E

F

**B**

AVH-P5700DVD/EW

SIDE B



4.3 DVD CORE UNIT

C DVD CORE UNIT

A

B

C

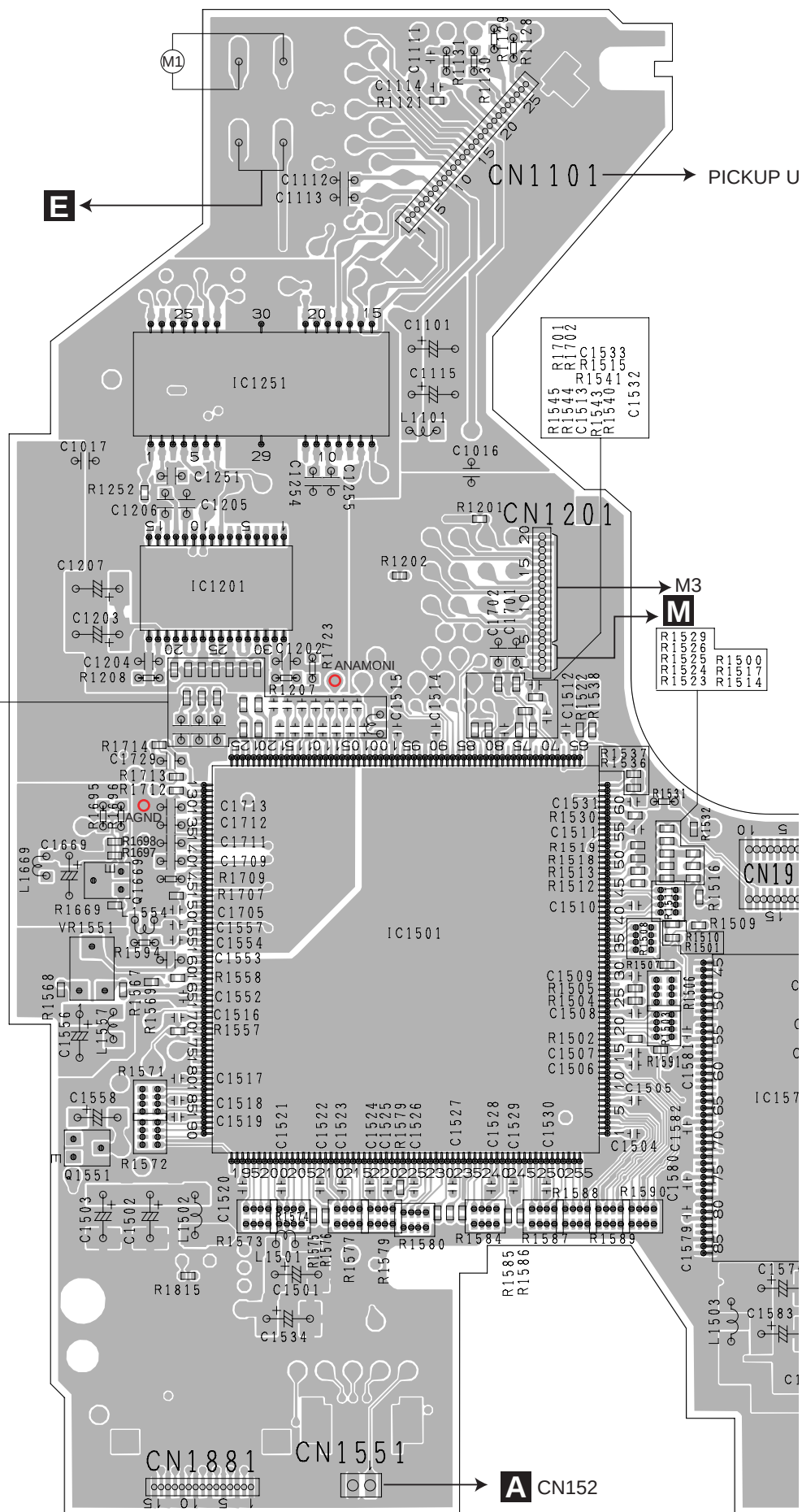
D

E

F

E

C



SIDE B

A

B

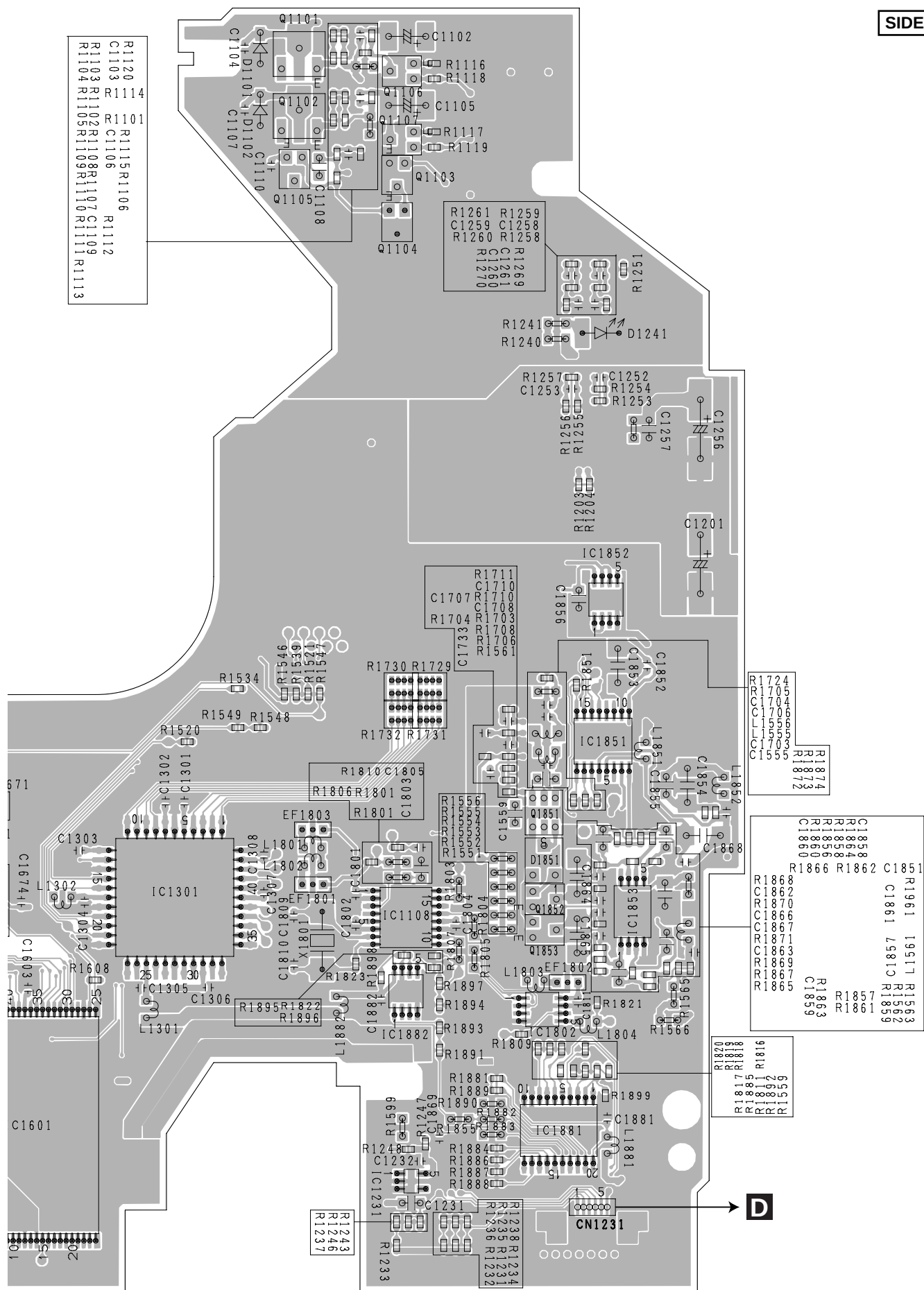
C

D

E

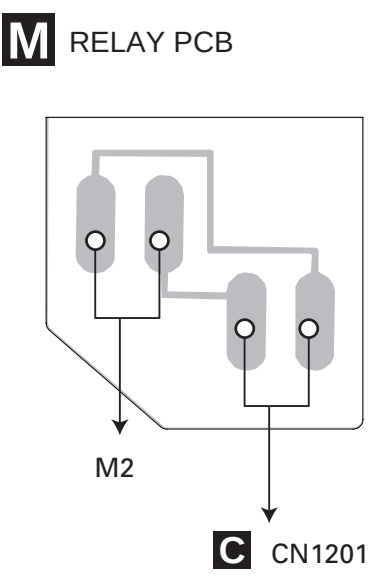
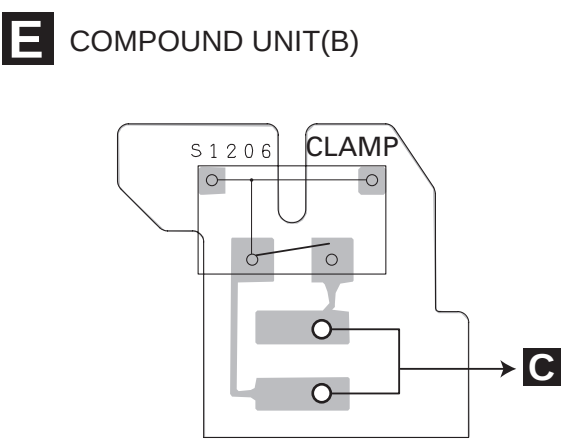
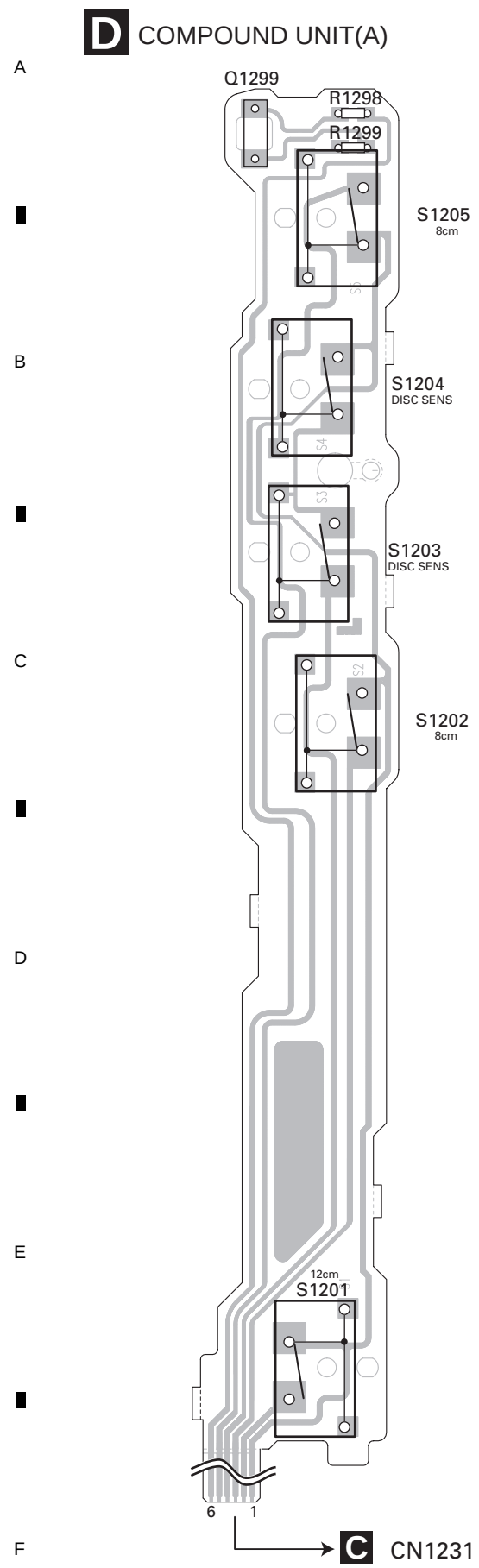
F

C



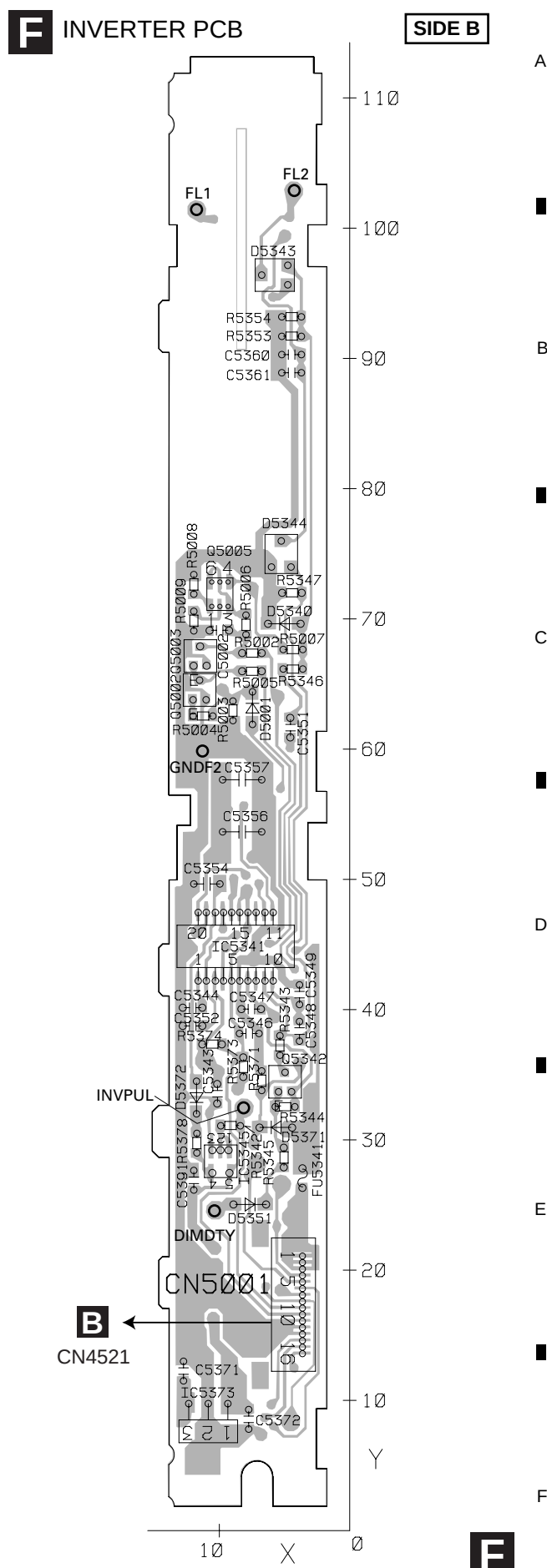
1 2 3 4

4.4 COMPOUND UNIT(A), COMPOUND UNIT(B) AND RELAY PCB



DEM

SIDE B



1 2 3 4

4.6 RGB UNIT

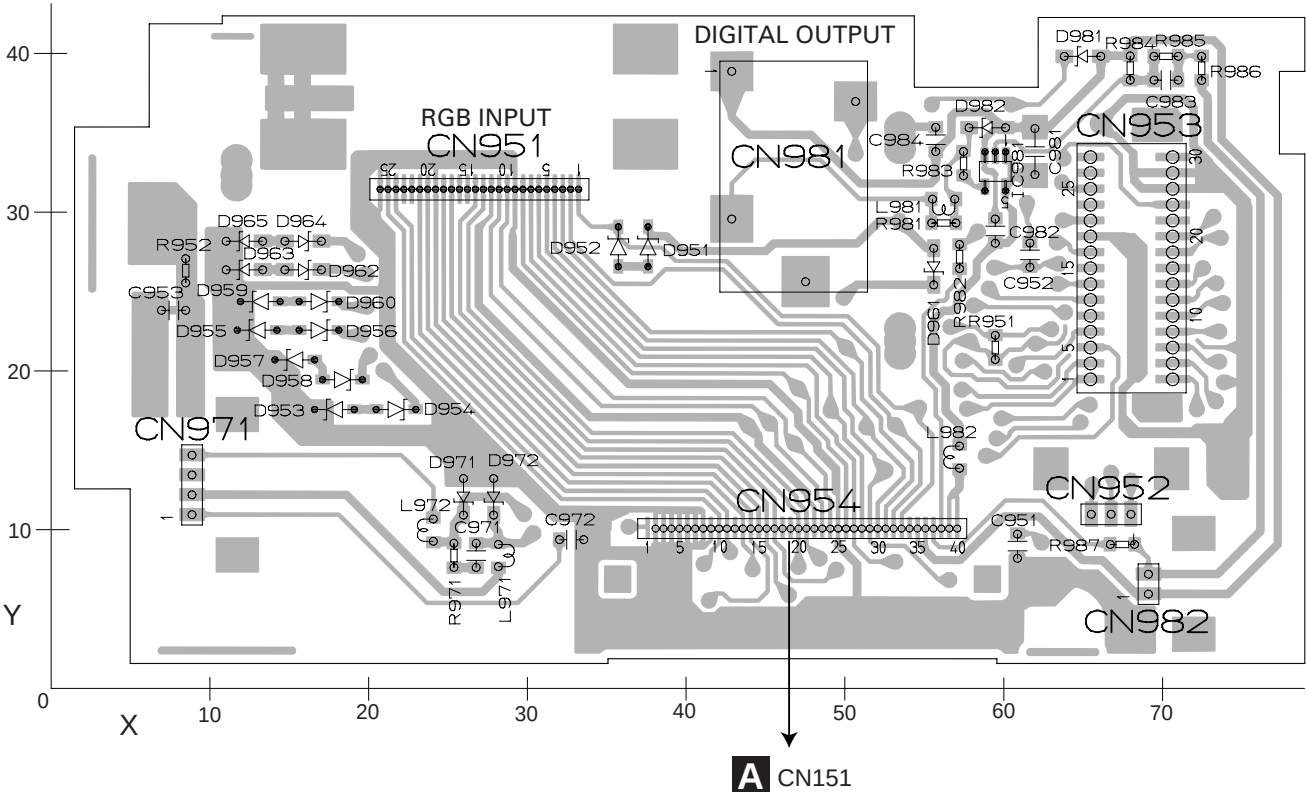
A

G RGB UNIT

SIDE A

B

C



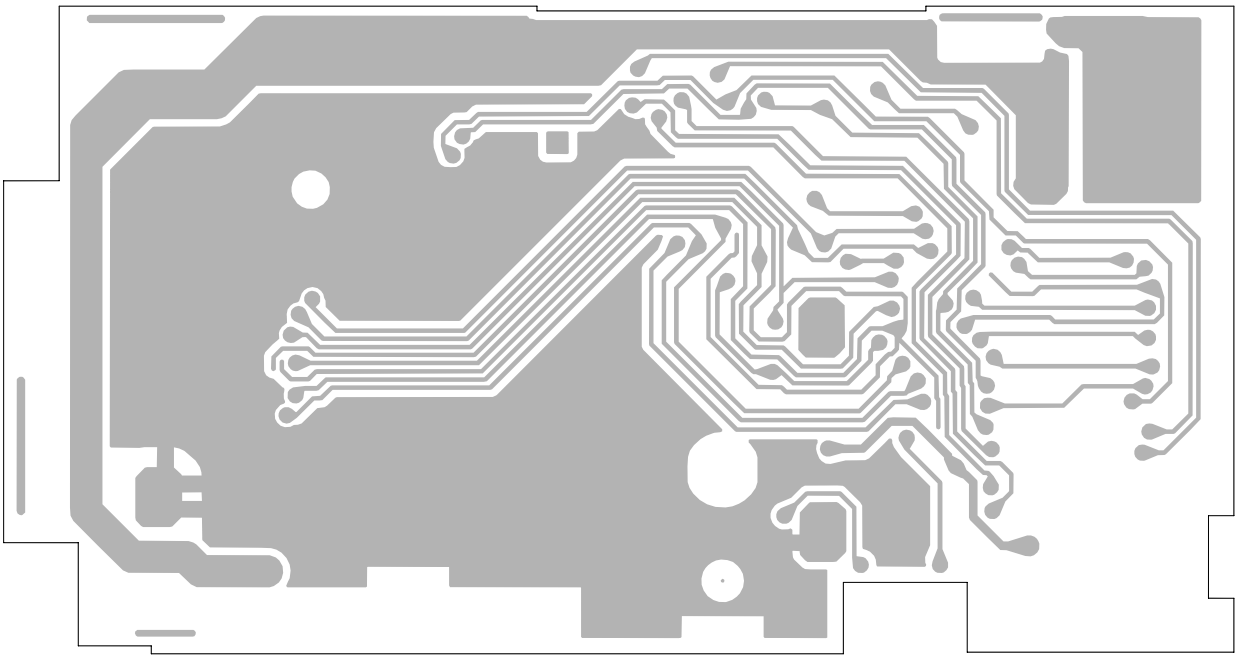
D

G RGB UNIT

SIDE B

E

F



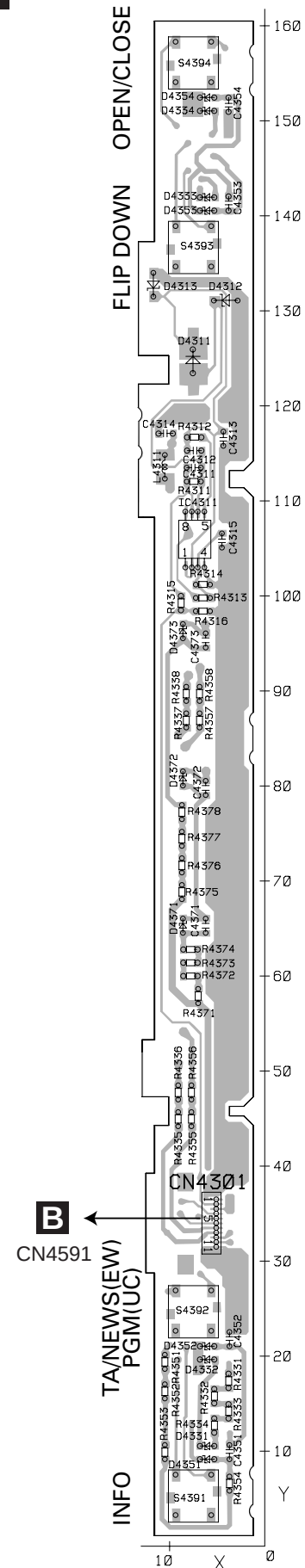
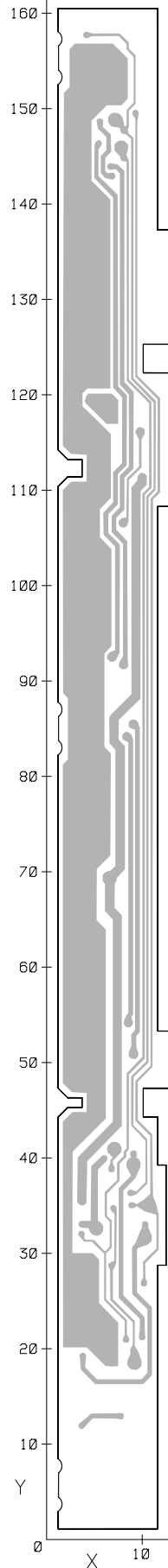
G

H UPPER PCB

SIDE A

H UPPER PCB

SIDE B

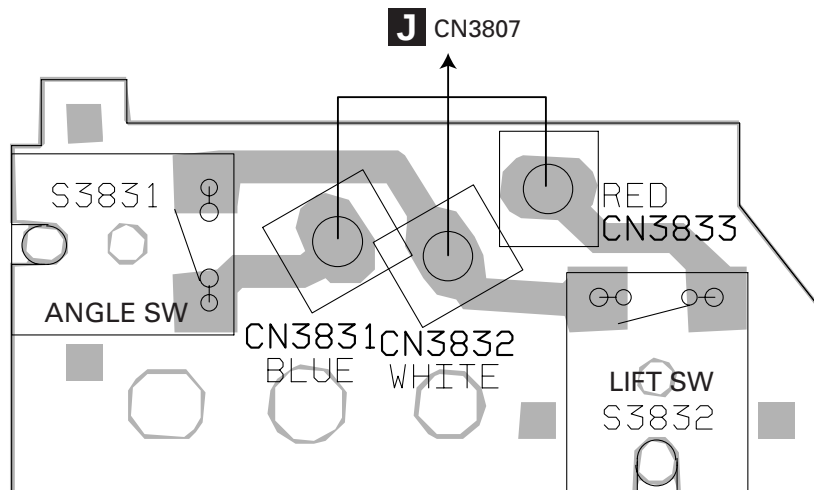


4

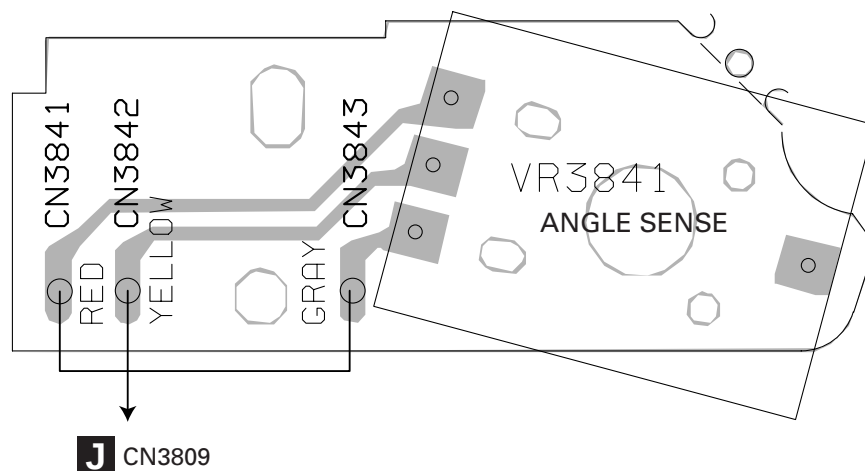


4.9 SW UNIT AND VOLUME UNIT

K SW UNIT



L VOLUME UNIT



4

SIDE A

J MAIN UNIT**SIDE B**

A

B

C

D

E

F

IC, Q

IC3805

IC3805

2	1
3	4
6	6

5. ELECTRICAL PARTS LIST

NOTE:

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

Chip Resistor

RS1/○S○○○○J,RS1/○○S○○○○J

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

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

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

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

IC 301 (A, 91, 111) IC NJM2068V

Circuit Symbol and No.

Part No.

AVH-P5700DVD/EW

Mother Unit : CWM9808
 RGB Unit : CWM9815
 Monitor Unit : CWM9820
 Monitor PCB : NSP
 Inverter PCB : NSP
 Upper PCB : NSP
 Keyboard Unit : NSP
 DVD Core Unit : CWX3170
 Compound Unit(A) : CWX3154
 Compound Unit(B) : CWX3156
 Main Unit : CZW3087
 SW Unit : CZW3088
 Volume Unit : CZW3089

AVH-P5700DVD/UC

Mother Unit : CWM9809
 RGB Unit : CWM9816
 Monitor Unit : CWM9821
 Monitor PCB : NSP
 Inverter PCB : NSP
 Upper PCB : NSP
 Keyboard Unit : NSP
 DVD Core Unit : CWX3170
 Compound Unit(A) : CWX3154
 Compound Unit(B) : CWX3156
 Main Unit : CZW3087
 SW Unit : CZW3088
 Volume Unit : CZW3089

A

Unit Number:CWM9809(UC)
 Unit Number:CWM9808(EW)
 Unit Name:Mother Unit

Circuit Symbol and No.

Part No.

MISCELLANEOUS

IC 121	(B,115,96) IC	HA12240FP
IC 151	(B,42,94) IC	TC4S81F
IC 181	(A,46,81) IC	TC74VHC08FTS1
IC 182	(A,50,82) IC	TC7SET08FUS1
IC 201	(B,145,63) IC	PML009A
IC 241	(A,155,128) IC	PAL007B
IC 301	(B,127,91) IC	NJM4558V
IC 302	(B,138,84) IC	NJM4558V
IC 303	(B,136,97) IC	NJM4580V
IC 421	(B,126,51) IC	NJM4558MD
IC 441	(A,147,46) IC	TA2050F
IC 451	(A,132,46) IC	TA2050F
IC 461	(B,59,86) IC	NJM2138V
IC 501	(B,145,14) IC	CXA2089Q
IC 521	(A,162,17) IC	NJM2136V
IC 522	(A,160,29) IC	BA7623F
IC 541	(B,36,72) IC	SM5304AV
IC 551	(B,127,17) IC	NJM2136V
IC 561	(B,124,31) IC	NJM2136V
IC 571	(B,135,31) IC	NJM2136V
IC 581	(B,146,31) IC	NJM2136V
IC 601	(B,87,81) IC (UC)	PE5485A
	(B,87,81) IC (EW)	PE5484A
IC 681	(B,94,43) IC	S-80841CNUA-B82
IC 801	(A,41,40) IC	AN8011S
IC 831	(B,19,92) IC	BA00BC0WFP
IC 841	(B,112,24) IC	S-812C50AUA-C3E
IC 851	(A,70,21) IC	S-818A35AUC-BGP
IC 856	(A,57,64) IC	S-814A33AMC-BCX
IC 871	(A,168,100) IC	NJM2388F84
IC 881	(B,25,146) IC	NJM2391DL1-33
Q 101	(B,97,29) Transistor	UMF23N
Q 121	(B,123,107) Transistor	UMF23N
Q 131	(A,83,109) Transistor	2SC4081
Q 151	(B,49,102) Transistor	2SC4081
Q 181	(B,47,76) Transistor	IMD2A
Q 182	(B,47,73) Transistor	IMX9
Q 241	(B,146,88) Transistor	DTC124EU
Q 242	(B,146,93) Transistor	DTC144EU

5			6			7			8		
Circuit Symbol and No.			Part No.	Circuit Symbol and No.			Part No.				
Q 243	(B,150,84)	Transistor	IMD2A	D 107	(B,94,26)	Diode	UDZS5R6(B)				
Q 244	(A,147,84)	Transistor	2SC4081	D 151	(B,46,93)	Diode Network	DA204U				
Q 245	(B,152,77)	Transistor	IMD2A	D 152	(B,42,97)	Diode Network	DA204U			A	
Q 261	(A,116,106)	Transistor	IMX9	D 241	(B,144,85)	Diode	DAN202U				
Q 262	(A,109,106)	Transistor	IMX9	D 242	(B,156,79)	Diode	RSX201L-30				
Q 281	(A,102,106)	Transistor (UC)	IMX9	D 243	(B,144,82)	Diode	DAN202U				
Q 301	(B,133,83)	Transistor	IMD2A	D 244	(A,146,89)	Diode	1SS355				
Q 302	(B,132,86)	Transistor	DTC323TU	D 245	(A,159,71)	Diode	UDZS8R2(B)				
Q 303	(B,126,81)	Transistor	DTC124EU	D 246	(B,149,81)	Diode	DAN202U				
Q 401	(B,73,110)	Transistor (EW)	IMH2A	D 421	(B,123,57)	Diode	UDZS3R9(B)				
Q 402	(B,72,106)	Transistor (EW)	IMH2A	D 681	(B,100,44)	Diode	1SS355				
Q 461	(A,59,82)	Transistor	2SC4081	D 691	(B,109,53)	Diode	1SS355				
Q 511	(A,135,5)	Transistor	2SC4081	D 692	(B,113,53)	Diode	1SS355			B	
Q 512	(A,125,8)	Transistor	2SA1577	D 701	(B,130,152)	Diode	S1G-6904G2P				
Q 521	(B,161,19)	Transistor	2SC4081	D 702	(B,124,152)	Diode	S1G-6904G2P				
Q 551	(A,125,14)	Transistor	2SC4081	D 703	(A,139,102)	Diode	DAN202U				
Q 561	(A,124,28)	Transistor	2SC4081	D 704	(B,132,108)	Diode	UDZS6R8(B)				
Q 571	(A,134,28)	Transistor	2SC4081	D 705	(A,136,108)	Diode	HZU7L(A1)				
Q 581	(A,145,28)	Transistor	2SC4081	D 706	(B,126,111)	Diode	HZU7L(C3)				
Q 601	(B,104,83)	Transistor	DTC124EU	D 707	(B,139,105)	Diode	DAN202U				
Q 691	(A,107,55)	Transistor	DTA114EU	D 708	(A,103,138)	Diode	5KP24A				
Q 692	(A,112,52)	Transistor	DTC144EU	D 771	(B,70,141)	Diode	HZU9R1(B2)				
Q 693	(A,112,55)	Transistor	DTC114EU	D 772	(B,65,142)	Diode	HZU6R8(B3)				
Q 694	(B,109,49)	Transistor	2SC4081	D 773	(B,62,145)	Diode	HZU8R2(B2)			C	
Q 695	(B,112,49)	Transistor	2SC4081	D 781	(B,73,42)	Diode	HZU7R5(B2)				
Q 696	(B,106,50)	Transistor	2SC4081	D 782	(B,69,37)	Diode	HZU6R8(B3)				
Q 701	(B,12,19)	Transistor	2SA1615-Z	D 801	(A,37,32)	Diode	RSX201L-30				
Q 702	(B,9,29)	Transistor	DTC114EU	D 802	(A,52,34)	Diode	RSX201L-30				
Q 703	(A,142,104)	Transistor	2SA1576	D 803	(A,33,46)	Diode	MA111				
Q 704	(A,138,105)	Transistor	2SC4081	D 804	(A,47,45)	Diode	MA111				
Q 705	(A,133,102)	Transistor	IMX1	D 805	(A,111,132)	Diode	RSX201L-30				
Q 706	(A,142,109)	Transistor	2SA1576	D 806	(A,107,129)	Diode	RSX201L-30				
Q 751	(B,50,11)	Transistor	2SA1577	D 831	(B,26,60)	Diode	S2G-6600				
Q 752	(B,50,9)	Transistor	DTC144EU	D 841	(A,139,56)	Diode	1SR154-400				
Q 753	(B,58,11)	Transistor (EW)	2SA1577	D 842	(A,157,52)	Diode	UDZS18(B)			D	
Q 754	(B,58,9)	Transistor (EW)	DTC144EU	D 851	(A,66,26)	Diode	SC802-06				
Q 755	(B,44,11)	Transistor	2SA1577	D 881	(B,40,143)	Diode	1SR154-400				
Q 756	(B,44,9)	Transistor	DTC144EU	D 882	(B,45,141)	Diode	1SR154-400				
Q 771	(B,72,146)	Transistor	2SD1760F5	D 883	(B,48,146)	Diode	1SR154-400				
Q 772	(B,67,139)	Transistor	DTC144EU	D 891	(B,165,73)	Diode	UDZS5R6(B)				
Q 773	(B,61,148)	Transistor	UMF5N	D 892	(B,152,104)	Diode	HZU9R1(B3)				
Q 774	(B,62,141)	Transistor	DTC144EU	ZNR401	(B,9,99)	Surge Protector	RCCA-201Q31UA-PI				
Q 781	(B,67,45)	Transistor	2SD1760F5	L 101	(A,99,19)	Inductor	CTF1399				
Q 782	(B,73,46)	Transistor	UMF5N	L 121	(B,117,91)	Inductor	LCTC2R2K1608				
Q 783	(B,72,37)	Transistor	DTC114EU	L 151	(A,65,96)	Inductor	CTF1473				
Q 801	(A,27,44)	Transistor	2SJ529S	L 171	(A,14,63)	Inductor	CTF1383			E	
Q 802	(A,53,41)	Transistor	2SJ529S	L 172	(A,6,55)	Inductor	CTF1473				
Q 803	(A,33,43)	Transistor	2SC4097	L 181	(A,35,79)	Inductor	CTF1473				
Q 804	(A,48,48)	Transistor	2SC4097	L 182	(A,35,81)	Inductor	CTF1473				
Q 805	(B,44,37)	Transistor	DTC124EU	L 183	(B,31,88)	Inductor	CTF1399				
Q 806	(B,51,39)	Transistor	DTC114EU	L 184	(A,43,86)	Inductor	CTF1305				
Q 841	(B,108,34)	Transistor	2SB1184F5	L 185	(A,50,77)	Inductor	CTF1305				
Q 842	(A,156,56)	Transistor	2SD1767	L 187	(A,40,86)	Inductor	CTF1473				
Q 861	(A,72,14)	Transistor	UMF5N	L 201	(A,135,69)	Inductor	LCTAW2R2J2520				
Q 864	(A,66,98)	Transistor	UMF5N	L 301	(A,130,90)	Inductor	CTF1399				
Q 867	(A,99,25)	Transistor	UMF5N	L 302	(B,135,79)	Inductor	CTF1399				
Q 891	(B,163,80)	Transistor	2SD1767	L 303	(A,133,92)	Inductor	CTF1399				
Q 892	(A,167,115)	Transistor	2SD2396	L 401	(B,63,128)	Chip Coil	LCTAW1R0J2520				
Q 893	(B,155,107)	Transistor	IMD2A	L 402	(A,37,104)	Chip Coil	LCTAW1R0J2520			F	
D 101	(A,98,22)	Diode	UDZS5R6(B)	L 403	(B,9,102)	Chip Coil	LCTAW4R7J2520				

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

A	L 404	(A,68,103) Inductor	CTF1473	R 108	(B,98,26)	RS1/16S332J
	L 405	(B,59,109) Inductor	CTF1473	R 109	(B,100,28)	RS1/16S332J
	L 421	(B,130,58) Inductor	CTF1399	R 121	(B,114,93)	RS1/16S102J
	L 441	(A,153,51) Inductor	CTF1399	R 122	(B,120,96)	RS1/16S101J
	L 451	(A,139,51) Inductor	CTF1399	R 123	(B,123,98)	RS1/16S150J
	L 461	(A,63,91) Inductor	CTF1399	R 124	(B,125,98)	RS1/16S470J
	L 501	(B,160,12) Chip Coil	LCTAW100J2520	R 125	(B,125,99)	RS1/16S101J
	L 511	(A,133,11) Inductor	CTF1399	R 126	(B,122,110)	RS1/16S222J
	L 521	(A,167,21) Inductor	CTF1399	R 127	(B,126,107)	RS1/16S332J
	L 522	(A,167,29) Inductor	LCTAW150J2520	R 128	(B,124,104)	RS1/16S562J
B	L 523	(B,118,115) Inductor	CTF1383	R 131	(A,86,111)	RS1/16S473J
	L 541	(B,43,68) Inductor	CTF1399	R 132	(A,83,112)	RS1/16S473J
	L 551	(B,125,11) Inductor	CTF1399	R 133	(A,86,108)	RS1/16S473J
	L 561	(B,123,24) Inductor	CTF1399	R 151	(B,52,98)	RS1/16S750J
	L 571	(B,135,23) Inductor	CTF1399	R 152	(B,65,98)	RS1/16S750J
	L 581	(B,145,25) Inductor	CTF1399	R 153	(B,60,98)	RS1/16S750J
	L 601	(B,82,95) Inductor	CTF1306	R 154	(B,56,98)	RS1/16S750J
	L 602	(B,84,95) Inductor	CTF1306	R 155	(B,44,102)	RS1/16S681J
	L 603	(B,94,62) Inductor	LCTAW2R2J2520	R 156	(B,48,96)	RS1/16S473J
	L 604	(B,77,97) Inductor	CTF1473	R 157	(B,46,102)	RS1/16S473J
C	L 701	(A,24,58) Coil	CTH1267	R 158	(B,45,97)	RS1/16S681J
	L 702	(A,22,8) Inductor	CTH1262	R 159	(B,48,92)	RS1/16S473J
	L 703	(B,143,101) Inductor	LCTC2R2K1608	R 160	(B,43,99)	RS1/16S473J
	L 704	(B,132,110) Inductor	CTF1295	R 171	(B,5,52)	RS1/16S0R0J
	L 705	(B,138,108) Inductor	LCTC2R2K1608	R 172	(A,5,58)	RS1/16S0R0J
	L 801	(A,29,33) Coil	CTH1303	R 174	(A,15,56)	RS1/16S102J
	L 802	(A,52,28) Coil	CTH1303	R 175	(B,13,55)	RS1/16S0R0J
	L 803	(A,49,61) Inductor	CTH1253	R 176	(B,11,54)	RS1/16S0R0J
	L 804	(A,38,49) Inductor	LCTAW100J2520	R 177	(B,9,59)	RS1/16S0R0J
	L 851	(A,75,22) Inductor	CTF1383	R 178	(A,5,53)	RS1/16S0R0J
D	L 856	(A,59,66) Inductor	CTF1383	R 179	(A,5,63)	RS1/16S0R0J
	X 601	(B,103,91)Radiator 18.874368MHz	CSS1622	R 181	(A,40,82)	RAB4C102J
	VR511	(A,130,13)Semi-fixed 1.5kΩ(B)	CCP1391	R 182	(A,36,85)	RAB4C102J
	VR801	(A,45,31)Semi-fixed 10kΩ(B)	CCP1396	R 184	(A,46,74)	RS1/16S103J
	⚠ FU131	(B,94,115) Fuse 3A	CEK1286	R 185	(A,48,74)	RS1/16S103J
	⚠ FU151	(B,41,102) Fuse 3A	CEK1286	R 187	(B,43,71)	RS1/16S0R0J
	⚠ FU152	(A,95,132) Fuse 3A	CEK1286	R 188	(B,51,72)	RS1/16S0R0J
	⚠ FU175	(A,15,71) Fuse 1.75A	CEK1283	R 201	(B,137,53)	RS1/16S181J
	⚠ FU176	(B,62,68) Fuse 1A	CEK1280	R 202	(B,148,52)	RS1/16S181J
	⚠ FU261	(B,104,127) Fuse 3A	CEK1286	R 203	(B,135,55)	RS1/16S223J
E	⚠ FU701	(A,16,53) Fuse 1.25A	CEK1281	R 204	(B,151,52)	RS1/16S223J
	⚠ FU702	(A,17,16) Fuse 1.75A	CEK1283	R 205	(B,135,56)	RS1/16S102J
	⚠ FU703	(B,126,149) Fuse 3A	CEK1286	R 206	(B,155,51)	RS1/16S102J
	⚠ FU771	(B,64,147) Fuse 1A	CEK1280	R 207	(B,140,51)	RS1/16S0R0J
	⚠ FU781	(A,76,36) Fuse 1A	CEK1280	R 208	(B,147,49)	RS1/16S0R0J
	⚠ FU801	(A,27,27) Fuse 2.5A	CEK1285	R 209	(B,136,60)	RS1/16S0R0J
	⚠ FU802	(A,54,22) Fuse 2.5A	CEK1285	R 210	(A,148,57)	RS1/16S0R0J
	⚠ FU803	(A,57,59) Fuse 2.5A	CEK1285	R 211	(B,130,71)	RS1/16S0R0J
	⚠ FU861	(A,101,31) Fuse 1A	CEK1280	R 212	(B,149,72)	RS1/16S0R0J
	BZ601	(A,83,10) Buzzer	CPV1063	R 213	(B,134,67)	RS1/16S0R0J

RESISTORS

F	R 101	(B,72,26)	RS1/16S472J	R 217	(B,145,110)	RS1/16S471J
	R 102	(B,72,27)	RS1/16S472J	R 218	(B,150,113)	RS1/16S471J
	R 103	(B,70,29)	RS1/16S472J	R 241	(B,150,93)	RS1/16S103J
	R 104	(B,75,30)	RAB4C222J	R 242	(B,146,90)	RS1/16S103J
	R 105	(B,89,42)	RS1/16S102J	R 243	(B,151,90)	RS1/16S221J
	R 106	(B,91,42)	RS1/16S102J	R 244	(B,141,108)	RS1/16S103J
	R 107	(B,95,35)	RS1/16S222J	R 245	(B,146,101)	RS1/16S473J

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 246	(B,149,90)		RS1/16S101J			R 407	(B,32,109)		RS1/16S681J		
R 247	(B,153,83)		RS1/16S222J			R 408	(A,73,101) (EW)		RAB4C223J		
R 248	(A,148,87)		RS1/16S103J			R 410	(A,30,6)		RS1/16S0R0J		A
R 249	(A,144,81)		RS1/16S104J			R 421	(B,116,58)		RS1/16S103J		
R 250	(A,143,84)		RS1/16S473J			R 422	(B,117,58)		RS1/16S103J		
R 251	(A,146,87)		RS1/16S101J			R 423	(B,120,56)		RS1/16S103J		
R 252	(B,155,74)		RS1/16S222J			R 424	(B,120,57)		RS1/16S103J		
R 261	(B,107,112)		RS1/16S821J			R 427	(B,121,51)		RS1/16S103J		
R 262	(B,103,112)		RS1/16S821J			R 428	(B,131,51)		RS1/16S103J		
R 263	(B,115,112)		RS1/16S821J			R 429	(B,120,49)		RS1/16S103J		
R 264	(B,111,109)		RS1/16S821J			R 430	(B,133,49)		RS1/16S103J		
R 265	(A,108,103)		RS1/16S103J			R 431	(B,128,59)		RS1/16S681J		
R 266	(A,111,103)		RS1/16S103J			R 441	(B,151,39)		RS1/16S102J		
R 267	(A,114,103)		RS1/16S103J			R 442	(B,141,42)		RS1/16S102J		B
R 268	(A,118,103)		RS1/16S103J			R 443	(B,148,41)		RS1/16S181J		
R 269	(B,106,114)		RS1/16S223J			R 444	(B,146,41)		RS1/16S181J		
R 270	(B,103,114)		RS1/16S223J			R 445	(B,150,41)		RS1/16S223J		
R 271	(B,115,114)		RS1/16S223J			R 446	(B,143,41)		RS1/16S223J		
R 272	(B,111,114)		RS1/16S223J			R 447	(A,141,24)		RS1/16S562J		
R 281	(B,100,114) (UC)		RS1/16S821J			R 448	(A,141,23)		RS1/16S562J		
R 282	(B,97,114) (UC)		RS1/16S821J			R 451	(B,137,41)		RS1/16S123J		
R 283	(A,101,103) (UC)		RS1/16S103J			R 452	(B,127,40)		RS1/16S123J		
R 284	(A,104,103) (UC)		RS1/16S103J			R 453	(B,133,41)		RS1/16S123J		
R 285	(B,100,115) (UC)		RS1/16S223J			R 454	(B,131,41)		RS1/16S123J		
R 286	(B,97,115) (UC)		RS1/16S223J			R 455	(B,134,41)		RS1/16S223J		C
R 287	(B,102,105) (EW)		RS1/16S0R0J			R 456	(B,130,41)		RS1/16S223J		
R 288	(B,97,105) (EW)		RS1/16S0R0J			R 457	(B,136,41)		RS1/16S223J		
R 289	(A,92,131) (EW)		RS1/16S0R0J			R 458	(B,127,42)		RS1/16S223J		
R 293	(B,104,130) (UC)		RS1/16S0R0J			R 459	(B,120,44)		RS1/16S562J		
R 301	(B,121,90)		RS1/16S101J			R 460	(B,120,42)		RS1/16S562J		
R 302	(B,124,90)		RS1/16S473J			R 461	(B,51,91)		RS1/16S472J		
R 303	(B,124,93)		RS1/16S473J			R 462	(B,54,84)		RS1/16S472J		
R 304	(B,131,94)		RS1/16S472J			R 463	(B,53,91)		RS1/16S472J		
R 305	(B,127,95)		RS1/16S472J			R 464	(B,57,81)		RS1/16S472J		
R 306	(B,136,89)		RS1/16S473J			R 465	(B,55,91)		RS1/16S472J		
R 307	(B,137,89)		RS1/16S103J			R 466	(B,54,88)		RS1/16S472J		D
R 308	(B,134,89)		RS1/16S103J			R 467	(B,57,91)		RS1/16S472J		
R 309	(B,131,89)		RS1/16S821J			R 468	(B,59,81)		RS1/16S472J		
R 310	(B,130,88)		RS1/16S473J			R 469	(B,66,91)		RS1/16S472J		
R 311	(A,136,97)		RS1/16S103J			R 470	(B,64,84)		RS1/16S472J		
R 312	(A,134,97)		RS1/16S103J			R 471	(B,64,91)		RS1/16S472J		
R 313	(B,145,96)		RS1/16S103J			R 472	(B,62,81)		RS1/16S472J		
R 314	(B,142,96)		RS1/16S103J			R 473	(B,62,91)		RS1/16S472J		
R 315	(B,141,83)		RS1/16S103J			R 474	(B,64,88)		RS1/16S472J		
R 316	(B,133,94)		RS1/16S103J			R 475	(B,60,91)		RS1/16S472J		
R 317	(A,138,97)		RS1/16S103J			R 476	(B,60,81)		RS1/16S472J		
R 318	(A,132,100)		RS1/16S103J			R 477	(A,54,77)		RS1/16S101J		E
R 319	(B,143,110)		RS1/16S471J			R 478	(A,56,77)		RS1/16S101J		
R 320	(B,146,110)		RS1/16S471J			R 479	(A,59,77)		RS1/16S101J		
R 321	(B,139,90)		RS1/16S104J			R 480	(A,57,77)		RS1/16S101J		
R 322	(B,124,87)		RS1/16S473J			R 481	(A,54,79)		RS1/16S102J		
R 323	(B,127,85)		RS1/16S473J			R 482	(A,58,84)		RS1/16S272J		
R 324	(A,130,81)		RS1/16S473J			R 483	(A,54,82)		RS1/16S472J		
R 325	(B,125,84)		RS1/16S102J			R 491	(B,70,127)		RS1/16S0R0J		
R 401	(B,54,106)		RS1/16S681J			R 501	(B,155,8)		RS1/16S0R0J		
R 402	(B,40,109) (EW)		RS1/16S681J			R 502	(B,149,28)		RS1/16S272J		
R 403	(B,38,109)		RS1/16S681J			R 503	(B,127,28)		RS1/16S272J		
R 404	(B,37,109)		RS1/16S681J			R 504	(B,130,13)		RS1/16S272J		F
R 405	(B,35,109)		RS1/16S681J			R 511	(A,136,8)		RS1/16S222J		
R 406	(B,34,109)		RS1/16S681J			R 512	(A,137,10)		RS1/16S222J		

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

R 513 (A,132,8) RS1/16S681J
 R 514 (A,132,6) RS1/16S681J
 R 515 (A,130,9) RS1/16S331J

R 588 (A,145,31) RS1/16S272J
 R 589 (A,141,31) RS1/16S472J
 R 590 (B,148,24) RS1/16S0R0J

A

R 516 (A,128,9) RS1/16S272J
 R 517 (A,129,6) RS1/16S0R0J
 R 518 (A,17,64) RS1/16S0R0J
 R 521 (A,160,12) RS1/16S472J
 R 522 (A,158,14) RS1/16S472J

R 601 (B,72,70) RS1/16S102J
 R 602 (B,72,68) RS1/16S102J
 R 603 (B,72,66) RS1/16S102J
 R 604 (A,109,65) RAB4C102J
 R 605 (B,112,68) RS1/16S473J

R 523 (B,162,21) RS1/16S272J
 R 524 (B,164,19) RS1/16S392J
 R 526 (A,162,20) RS1/16S101J
 R 527 (B,159,16) RS1/16S472J
 R 528 (B,158,19) RS1/16S102J

R 606 (B,69,75) RAB4C102J
 R 607 (B,71,79) RAB4C102J
 R 608 (B,68,80) RS1/16S102J
 R 609 (B,71,84) (EW) RAB4C101J
 R 610 (B,98,57) RS1/16S473J

B

R 529 (B,164,14) RS1/16S472J
 R 530 (B,166,15) RS1/16S101J
 R 531 (A,164,29) RS1/16S473J
 R 532 (A,164,32) RS1/16S333J
 R 533 (B,162,27) RS1/16S560J

R 612 (B,98,46) RS1/16S102J
 R 613 (B,92,18) RS1/16S473J
 R 614 (B,93,16) RS1/16S0R0J
 R 615 (A,73,98) (EW) RS1/16S681J
 R 616 (A,77,100) RS1/16S221J

R 534 (B,162,29) RS1/16S150J
 R 543 (B,33,72) RS1/16S332J
 R 546 (B,38,66) RS1/16S101J
 R 547 (B,33,66) RS1/16S102J
 R 548 (B,139,5) RS1/16S0R0J

R 617 (B,88,112) RS1/16S102J
 R 618 (B,88,115) RS1/16S473J
 R 619 (B,90,112) RS1/16S102J
 R 620 (B,90,115) RS1/16S473J
 R 621 (B,96,99) RS1/16S473J

C

R 551 (A,127,24) RS1/16S750J
 R 552 (A,126,21) RS1/16S472J
 R 553 (A,128,21) RS1/16S472J
 R 554 (B,130,11) RS1/16S101J
 R 555 (A,128,17) RS1/16S472J

R 622 (B,96,97) RS1/16S102J
 R 623 (B,96,17) RAB4C102J
 R 624 (B,97,14) RS1/16S473J
 R 625 (B,92,15) RS1/16S473J
 R 626 (B,98,96) (EW) RS1/16S473J

R 556 (B,124,17) RS1/16S472J
 R 557 (A,122,13) RS1/16S102J
 R 558 (A,125,18) RS1/16S272J
 R 559 (A,123,19) RS1/16S472J
 R 560 (B,133,9) RS1/16S0R0J

R 627 (B,103,54) RS1/16S102J
 R 628 (A,110,59) RS1/16S102J
 R 629 (B,111,71) RS1/16S104J
 R 630 (B,103,87) RS1/16S151J
 R 631 (B,109,69) RS1/16S104J

D

R 561 (A,124,38) RS1/16S750J
 R 562 (A,124,35) RS1/16S472J
 R 563 (A,125,35) RS1/16S472J
 R 564 (B,128,24) RS1/16S101J
 R 565 (A,126,31) RS1/16S472J

R 632 (B,158,39) RS1/16S472J
 R 633 (B,158,38) RS1/16S472J
 R 634 (B,108,64) RAB4C102J
 R 635 (B,103,80) RS1/16S473J
 R 636 (B,108,84) RS1/16S472J

R 566 (B,121,31) RS1/16S472J
 R 567 (A,119,27) RS1/16S102J
 R 568 (B,135,16) RS1/16S0R0J
 R 569 (A,123,31) RS1/16S272J
 R 570 (A,119,30) RS1/16S472J

R 637 (B,109,71) RS1/16S104J
 R 639 (B,108,72) RS1/16S681J
 R 641 (B,105,72) RS1/16S681J
 R 642 (B,101,73) RS1/16S102J
 R 643 (B,101,70) RS1/16S102J

E

R 571 (A,134,38) RS1/16S750J
 R 572 (A,134,35) RS1/16S472J
 R 573 (A,135,35) RS1/16S472J
 R 574 (B,137,25) RS1/16S101J
 R 575 (A,137,31) RS1/16S472J

R 644 (B,104,64) RS1/16S473J
 R 645 (B,101,64) RAB4C681J
 R 646 (B,98,58) RS1/16S104J
 R 647 (A,100,61) RS1/16S681J
 R 648 (A,100,58) RS1/16S681J

R 576 (B,132,31) RS1/16S472J
 R 577 (A,130,28) RS1/16S102J
 R 578 (A,134,31) RS1/16S272J
 R 579 (A,130,31) RS1/16S472J
 R 580 (B,141,24) RS1/16S0R0J

R 649 (A,101,53) RS1/16S473J
 R 651 (B,92,66) RS1/16S473J
 R 652 (B,77,57) RS1/16S681J
 R 653 (B,75,59) RS1/16S101J
 R 654 (B,76,63) RS1/16S473J

F

R 581 (A,145,38) RS1/16S750J
 R 582 (A,144,35) RS1/16S472J
 R 583 (A,145,35) RS1/16S472J
 R 584 (B,148,25) RS1/16S101J
 R 585 (A,146,31) RS1/16S472J

R 661 (A,96,55) RS1/16S473J
 R 663 (A,94,55) RS1/16S473J
 R 671 (A,84,53) RS1/16S103J
 R 672 (A,88,55) RS1/16S473J
 R 673 (A,92,55) RS1/16S473J

R 586 (B,143,31) RS1/16S472J
 R 587 (A,141,28) RS1/16S102J

R 681 (B,98,43) RS1/16S104J
 R 691 (A,110,55) RS1/16S103J

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 692	(A,109,50)	RS1/16S223J		R 815	(B,38,38)	RS1/16S6801D	A
R 693	(A,106,51)	RS1/16S473J		R 816	(A,36,37)	RS1/16S1502D	
R 694	(B,109,56)	RS1/16S472J		R 817	(A,46,35)	RS1/16S6801D	
				R 818	(A,47,38)	RS1/16S6802D	
R 695	(B,112,56)	RS1/16S472J					
R 696	(B,106,48)	RS1/16S473J		R 819	(B,34,39)	RS1/16S3901D	
R 697	(B,105,54)	RS1/16S473J		R 820	(B,48,40)	RS1/16S7501D	
R 702	(B,16,24)	RS1/16S153J		R 821	(B,38,40)	RS1/16S2203D	
R 703	(B,13,24)	RS1/10S301J		R 822	(B,44,40)	RS1/16S4702D	
				R 823	(B,38,43)	RS1/16S3302D	
R 704	(B,9,24)	RS1/10S301J					
R 705	(A,144,101)	RS1/16S102J		R 824	(B,43,43)	RS1/16S3302D	
R 706	(A,143,101)	RS1/16S473J		R 825	(A,103,130)	RS1/16S0R0J	
R 707	(A,144,105)	RS1/16S473J		R 826	(A,100,130)	RS1/16S0R0J	
R 708	(B,143,100)	RS1/16S103J		R 829	(B,54,39)	RS1/16S1200D	
				R 830	(B,51,43)	RS1/16S102J	B
R 709	(A,142,107)	RS1/16S473J					
R 710	(B,134,103)	RS1/16S103J		R 831	(B,14,90)	RS1/16S6802D	
R 711	(B,134,106)	RS1/16S103J		R 832	(B,14,93)	RS1/16S1202D	
R 712	(B,129,109)	RS1/16S103J		R 833	(B,15,84)	RS1/16S1203D	
R 713	(B,131,103)	RS1/16S103J		R 834	(B,14,87)	RS1/16S1502D	
				R 835	(B,23,84)	RS1/16S102J	
R 714	(A,134,105)	RS1/16S473J					
R 715	(A,132,107)	RS1/16S472J		R 841	(B,112,18)	RS1/16S471J	
R 716	(B,128,105)	RS1/16S104J		R 842	(A,167,68)	RS1/16S2R2J	
R 717	(B,124,111)	RS1/16S473J		R 843	(A,167,65)	RS1/16S2R2J	
R 718	(A,143,112)	RS1/16S102J		R 844	(A,165,68)	RS1/16S2R2J	
				R 845	(A,165,65)	RS1/16S2R2J	
R 719	(A,140,109)	RS1/16S472J					
R 720	(A,138,108)	RS1/16S472J		R 846	(A,152,54)	RS1/16S222J	C
R 721	(B,138,109)	RS1/16S153J		R 856	(A,61,64)	RS1/16S473J	
R 751	(B,48,9)	RS1/16S472J		R 861	(A,75,14)	RS1/16S103J	
R 752	(B,48,11)	RS1/16S223J		R 862	(A,74,16)	RS1/16S332J	
				R 864	(A,69,98)	RS1/16S103J	
R 753	(B,55,9) (EW)	RS1/16S472J					
R 754	(B,56,11) (EW)	RS1/16S223J		R 865	(A,67,100)	RS1/16S332J	
R 755	(B,41,9)	RS1/16S472J		R 867	(A,99,29)	RS1/16S103J	
R 756	(B,41,11)	RS1/16S223J		R 868	(A,97,28)	RS1/16S332J	
R 771	(B,71,150)	RS1/16S271J		R 871	(B,158,83)	RS1/16S102J	
				R 872	(B,156,84)	RS1/16S473J	
R 772	(B,69,150)	RS1/16S271J					
R 773	(B,66,150)	RS1/16S271J		R 891	(B,164,76)	RS1/16S391J	
R 774	(B,58,147)	RS1/16S103J		R 892	(A,159,90)	RS1/16S0R0J	D
R 775	(B,58,150)	RS1/16S103J		R 893	(B,158,110)	RS1/16S101J	
R 776	(B,73,90)	RS1/16S0R0J		R 894	(B,156,110)	RS1/16S101J	
				R 895	(B,156,104)	RS1/16S101J	
R 781	(A,76,39)	RS1/16S0R0J		CAPACITORS			
R 782	(B,69,55)	RS1/16S271J					
R 783	(B,69,54)	RS1/16S271J		C 121	(B,106,98)	CKSRYB102K50	
R 784	(B,69,52)	RS1/16S271J		C 122	(B,108,98)	CKSRYB102K50	
R 785	(B,72,52)	RS1/16S103J		C 123	(B,121,118)	CKSRYB104K50	
				C 124	(B,109,98)	CKSRYB104K50	
R 786	(B,73,50)	RS1/16S103J		C 153	(B,42,92)	CKSRYB104K50	
R 788	(B,66,56)	RS1/16S0R0J					
R 801	(B,34,34)	RS1/16S3901D					
R 802	(B,37,34)	RS1/16S4701D		C 171	(B,5,54)	CCSRCH101J50	
R 803	(B,35,31)	RS1/16S2202D		C 181	(B,45,83)	CKSRYB104K50	
				C 182	(A,50,79)	CKSRYB104K50	
R 804	(B,35,34)	RS1/16S2202D		C 184	(B,28,99)	CKSRYB104K50	
R 805	(B,47,33)	RS1/16S6801D		C 186	(B,28,79)	CCSRCH101J50	E
R 806	(B,48,38)	RS1/16S8200D					
R 807	(B,48,30)	RS1/16S3900D		C 187	(B,26,79)	CKSRYB104K50	
R 808	(B,48,33)	RS1/16S3301D		C 188	(B,32,62)	CKSRYB104K50	
				C 201	(B,137,55)	CKSRYB105K6R3	
R 809	(A,32,49)	RS1/16S560J		C 202	(B,151,53)	CKSRYB105K6R3	
R 810	(A,53,48)	RS1/16S560J		C 203	(B,137,56)	CKSRYB105K6R3	
R 811	(A,35,44)	RS1/16S272J					
R 812	(A,46,47)	RS1/16S272J		C 204	(B,154,54)	CKSRYB105K6R3	F
R 813	(A,36,44)	RS1/16S221J		C 205	(B,140,53)	CKSRYB224K16	
				C 206	(B,147,54)	CKSRYB224K16	
R 814	(A,47,43)	RS1/16S221J		C 207	(B,137,51)	CKSRYB105K6R3	

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

	C 208	(B,150,49)	CKSRYB105K6R3	C 309	(B,133,89)	CKSRYB104K50
A	C 211	(B,143,51)	CKSRYB105K6R3	C 310	(B,139,91)	CKSRYB104K50
	C 212	(B,145,51)	CKSRYB105K6R3	C 313	(A,136,94)	CKSRYB104K50
	C 213	(A,139,59)	CKSYB475K16	C 402	(B,59,128)	CKSYB475K16
	C 214	(A,152,59)	CKSYB475K16	C 403	(B,59,130)	CKSRYB103K50
	C 217	(A,138,61)	CKSYB475K16	C 404	(A,68,110)	CEVLW470M6R3
	C 218	(A,152,61)	CKSYB475K16	C 405	(B,57,111)	CKSRYB103K50
	C 219	(A,137,63)	CKSYB475K16	C 406	(A,32,102)	CKSRYB103K50
	C 220	(A,152,63)	CKSYB475K16	C 407	(A,33,109)	CEVLW101M10
	C 221	(A,137,65)	CKSYB475K16	C 408	(B,84,116)	CKSRYB102K50
	C 222	(A,152,65)	CKSYB475K16	C 409	(B,19,140)	CKSRYB102K50
B	C 223	(B,137,66)	CCSRCH100D50	C 410	(B,75,137)	CKSRYB102K50
	C 224	(B,153,66)	CCSRCH100D50	C 411	(B,3,57)	CCSRCH101J50
	C 225	(B,139,70)	CCSRCH100D50	C 413	(A,68,104)	CKSRYB104K50
	C 226	(B,153,71)	CCSRCH100D50	C 417	(B,16,32)	CKSRYB104K50
	C 227	(B,139,72)	CCSRCH100D50	C 418	(B,28,7)	CKSRYB102K50
	C 228	(B,150,70)	CCSRCH100D50	C 419	(B,54,109)	CKSRYB104K50
	C 229	(A,152,69)	CEVLW100M16	C 421	(B,77,110)	CKSRYB474K10
	C 230	(B,143,71)	CKSRYB104K50	C 422	(B,79,110)	CKSRYB474K10
	C 231	(B,143,72)	CKSRYB104K50	C 423	(B,120,54)	CCSRCH470J50
	C 232	(A,136,71)	CKSRYB102K50	C 424	(B,120,59)	CCSRCH470J50
C	C 233	(A,145,63)	CEVLW470M16	C 425	(B,126,58)	CKSYB475K16
	C 234	(A,138,68)	CKSRYB104K50	C 426	(B,124,58)	CKSRYB103K50
	C 241	(B,143,113)	CKSRYB105K10	C 427	(B,119,51)	CCSRCH470J50
	C 242	(B,146,113)	CKSRYB105K10	C 428	(B,133,51)	CCSRCH470J50
	C 243	(B,143,115)	CKSRYB105K10	C 429	(B,120,48)	CKSRYB474K10
	C 244	(B,146,115)	CKSRYB105K10	C 430	(B,133,47)	CKSRYB474K10
	C 245	(B,145,113)	CKSRYB105K10	C 431	(B,126,48)	CKSRYB105K10
	C 246	(B,152,115)	CKSRYB105K10	C 441	(B,151,42)	CKSRYB105K6R3
	C 247	(B,145,115)	CKSRYB105K10	C 442	(B,143,43)	CKSRYB105K6R3
	C 248	(B,155,115)	CKSRYB105K10	C 443	(B,149,43)	CKSRYB105K6R3
D	C 249	(A,153,85)	CEVLW330M25	C 444	(B,146,43)	CKSRYB105K6R3
	C 250	(B,124,114) 10μF	CCG1138	C 445	(A,139,25)	CKSRYB105K6R3
	C 251	(A,119,127) 1000μF/16V	CCH1428	C 446	(A,138,23)	CKSRYB105K6R3
	C 252	(B,145,105) 10μF	CCG1182	C 447	(A,145,41)	CKSYB475K16
	C 253	(A,160,117)	CKSYB475K16	C 448	(A,155,46)	CEVLW100M16
	C 254	(A,157,117)	CKSYB475K16	C 449	(A,149,41)	CKSRYB104K50
	C 255	(B,157,115)	CKSRYB473K50	C 451	(B,136,43)	CKSRYB105K6R3
	C 256	(A,156,77)	CEVLW470M16	C 452	(B,127,43)	CKSRYB105K6R3
	C 257	(A,142,71)	CEVW101M16	C 453	(B,133,43)	CKSRYB105K6R3
	C 258	(A,143,86) 10μF	CCG1182	C 454	(B,130,43)	CKSRYB105K6R3
E	C 261	(B,107,109) 10μF	CCG1182	C 455	(B,123,44)	CKSRYB105K6R3
	C 262	(B,104,109) 10μF	CCG1182	C 456	(B,123,42)	CKSRYB105K6R3
	C 263	(B,117,106) 10μF	CCG1182	C 457	(A,129,41)	CKSYB475K16
	C 264	(B,113,106) 10μF	CCG1182	C 458	(A,139,46)	CEVLW100M16
	C 265	(B,106,115)	CCSRCH101J50	C 459	(A,134,41)	CKSRYB104K50
	C 266	(B,103,115)	CCSRCH101J50	C 461	(B,55,95)	CKSYB106K6R3
	C 267	(B,115,115)	CCSRCH101J50	C 462	(B,57,95)	CKSYB106K6R3
	C 268	(B,111,115)	CCSRCH101J50	C 463	(B,53,95)	CKSYB106K6R3
	C 269	(A,110,141)	CKSRYB102K50	C 464	(B,51,95)	CKSYB106K6R3
	C 281	(B,100,111) 10μF (UC)	CCG1182	C 465	(B,64,95)	CKSYB106K6R3
	C 282	(B,97,110) 10μF (UC)	CCG1182	C 466	(B,66,95)	CKSYB106K6R3
	C 283	(B,100,117) (UC)	CCSRCH101J50	C 467	(B,60,95)	CKSYB106K6R3
	C 284	(B,97,117) (UC)	CCSRCH101J50	C 468	(B,62,95)	CKSYB106K6R3
	C 301	(B,121,89)	CKSRYB105K6R3	C 469	(B,52,84)	CCSRCH6R0D50
	C 302	(B,121,92)	CKSRYB105K6R3	C 470	(B,52,88)	CCSRCH6R0D50
F	C 305	(A,150,76)	CEVLW100M16	C 471	(B,65,84)	CCSRCH6R0D50
	C 306	(B,133,81)	CKSRYB104K50	C 472	(B,65,88)	CCSRCH6R0D50
	C 307	(B,121,86) 10μF	CCG1171	C 473	(A,54,81)	CKSRYB104K50
	C 308	(A,131,94)	CKSRYB104K50	C 474	(A,54,84)	CKSRYB102K50

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 475	(A,58,85)		CKSRYB104K50			C 601	(B,76,95)		CKSRYB105K6R3		
C 481	(B,65,64)		CKSRYB102K50			C 604	(B,106,94)		CCSRCH7R0D50		A
C 482	(B,61,64)		CKSRYB102K50			C 605	(B,106,89)		CCSRCH7R0D50		
C 483	(B,154,59)		CKSRYB102K50			C 606	(B,91,64)		CKSRYB105K6R3		
C 484	(B,70,131)		CCSRCH101J50			C 608	(B,75,61)		CCSRCH101J50		
C 487	(B,48,128)		CKSRYB103K50			C 609	(B,74,67)		CKSRYB104K50		
C 488	(B,42,65)		CKSRYB104K50			C 611	(B,95,56)		CKSRYB103K50		
C 501	(A,151,5) 10μF		CCG1171			C 612	(B,77,100)		CKSRYB103K50		
C 502	(A,150,10)		CEVLW100M16			C 671	(B,88,50)		CKSRYB105K6R3		
C 503	(A,155,8)		CKSRYB104K50			C 681	(A,98,42)		CEVLW2R2M50		
C 511	(A,135,10)		CKSRYB105K6R3			C 691	(A,105,51)		CKSRYB103K50		
C 512	(A,142,8)		CEVLW101M10			C 692	(B,112,58)		CKSRYB103K50		
C 521	(A,156,6) 47μF		CCG1181			C 701	(B,8,34)		CKSRYB104K50		B
C 522	(A,157,10) 47μF		CCG1181			C 704	(A,6,42) 2200μF/16V		CCH1405		
C 523	(A,153,25)		CEVLW101M10			C 705	(B,132,149)		CKSRYB104K50		
C 524	(A,162,22) 10μF		CCG1171			C 706	(B,143,103)		CKSRYB103K50		
C 525	(B,162,17)		CKSRYB104K50			C 707	(B,139,103)		CKSRYB104K50		
C 526	(B,165,17)		CKSRYB104K50			C 708	(B,133,103)		CKSRYB104K50		
C 527	(B,164,13)		CCSRCH4R0D50			C 709	(A,132,109)		CKSRYB104K50		
C 529	(A,153,33)		CEVLW101M10			C 710	(B,109,129)		CKSRYB103K50		
C 530	(A,165,26) 10μF		CCG1171			C 711	(B,140,108)		CKSRYB104K50		
C 531	(A,138,17)		CEVLW221M4			C 712	(B,124,118)		CKSRYB104K50		
C 532	(A,145,17)		CEVLW221M4			C 751	(A,54,13)		CKSRYB104K50		
C 533	(A,153,17)		CEVLW221M4			C 752	(A,58,13) (EW)		CKSRYB104K50		C
C 535	(B,155,5) 22μF		CCG1178			C 753	(A,49,14)		CKSRYB104K50		
C 536	(B,156,15) 22μF		CCG1178			C 771	(B,63,150)		CKSRYB103K50		
C 541	(A,36,76)		CKSYB106K6R3			C 772	(A,86,149)		CEVLW100M16		
C 543	(B,40,70)		CKSYB475K16			C 773	(B,70,139)		CKSRYB103K50		
C 544	(B,33,70)		CKSRYB103K50			C 781	(B,70,35)		CKSRYB103K50		
C 545	(A,33,70)		CEVLW220M6R3			C 782	(A,74,29)		CEVLW100M16		
C 546	(A,40,70)		CEVLW101M10			C 783	(B,73,40)		CKSRYB103K50		
C 547	(B,136,5)		CKSRYB105K6R3			C 801	(B,34,31)		CKSRYB153K50		
C 551	(A,124,22)		CKSYB106K6R3			C 802	(B,47,30)		CKSRYB223K50		
C 552	(A,130,22)		CKSYB106K6R3			C 803	(A,35,20) 220μF/10V		CCH1409		
C 554	(A,131,17)		CCSRCH6R0D50			C 804	(A,46,20) 470μF/6.3V		CCH1437		
C 555	(A,122,15)		CKSRYB104K50			C 805	(A,52,51)		CKSYB225K16		D
C 556	(A,123,17) 10μF		CCG1171			C 806	(A,34,50)		CKSYB225K16		
C 557	(B,124,14)		CKSRYB104K50			C 807	(B,38,36)		CKSYB475K16		
C 558	(B,130,9)		CKSRYB104K50			C 808	(B,42,34)		CCSRCH101J50		
C 561	(A,122,36)		CKSYB106K6R3			C 809	(B,34,41)		CKSRYB223K50		
C 562	(A,127,36)		CKSYB106K6R3			C 810	(B,48,41)		CKSRYB683K50		
C 564	(A,125,31)		CCSRCH6R0D50			C 811	(B,38,44)		CKSRYB104K50		
C 565	(A,119,29)		CKSRYB104K50			C 812	(B,43,44)		CKSRYB104K50		
C 566	(B,135,19)		CKSRYB104K50			C 813	(A,41,46)		CKSRYB104K50		
C 567	(A,119,32) 10μF		CCG1171			C 814	(A,42,48)		CKSYB475K16		
C 568	(B,123,26)		CKSRYB104K50			C 815	(A,65,48) 100μF/16V		CCH1565		E
C 571	(A,132,36)		CKSYB106K6R3			C 816	(A,60,54)		CKSYB225K16		
C 572	(A,137,36)		CKSYB106K6R3			C 817	(A,89,125) 2200μF/16V		CCH1405		
C 574	(A,135,31)		CCSRCH6R0D50			C 818	(A,70,40) 100μF/16V		CCH1565		
C 575	(A,130,29)		CKSRYB104K50			C 819	(A,63,40) 100μF/16V		CCH1565		
C 576	(A,130,33) 10μF		CCG1171			C 820	(B,51,42)		CKSRYB474K10		
C 577	(B,134,25)		CKSRYB104K50			C 821	(A,35,25) 220μF/10V		CCH1409		
C 578	(B,138,24)		CKSRYB104K50			C 831	(B,18,84)		CCSRCH102J50		
C 581	(A,142,36)		CKSYB106K6R3			C 832	(A,44,90)		CEVLW470M16		
C 582	(A,147,36)		CKSYB106K6R3			C 833	(B,19,82)		CKSRYB474K10		
C 584	(A,148,31)		CCSRCH6R0D50			C 841	(B,101,34)		CKSYB475K16		
C 585	(A,141,29)		CKSRYB104K50			C 842	(B,101,32)		CKSRYB102K50		F
C 586	(A,141,33) 10μF		CCG1171			C 843	(A,105,19)		CEVLW101M10		
C 587	(B,145,26)		CKSRYB104K50			C 845	(B,110,21)		CKSRYB103K50		
C 588	(B,151,24)		CKSRYB104K50			C 846	(B,113,21)		CKSRYB103K50		

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

C 847	(A,108,29)	CEVW101M16
C 848	(A,165,61) 2200µF/16V	CCH1405
C 849	(A,157,50)	CKSRYB104K50
C 851	(A,84,24) 0.22µF	CCL1058
C 852	(A,65,21)	CKSQYB225K10
C 853	(A,70,24)	CKSRYB105K10
C 854	(A,75,20)	CKSRYB102K50
C 856	(A,61,63)	CKSRYB105K6R3
C 857	(A,57,67)	CKSRYB105K10
C 858	(A,59,69)	CKSRYB103K50
C 864	(A,70,98)	CKSRYB104K50
C 871	(A,154,101)	CEVLW101M10
C 872	(A,158,110)	CKSRYB103K50
C 873	(A,152,116)	CEVW101M16
C 881	(A,5,140)	CEVLW220M6R3
C 882	(B,32,139)	CKSRYB103K50
C 883	(B,33,145)	CKSYB475K16
C 884	(B,34,142)	CKSRYB104K50
C 891	(B,161,75)	CKSRYB104K50
C 892	(A,163,76)	CEVLW470M6R3
C 893	(B,164,74)	CKSRYB103K50
C 894	(A,166,71) 10µF	CCG1182
C 895	(B,152,101)	CKSRYB104K50

CAPACITORS

C 951	(A,61,9)	CKSRYB102K50
C 952	(A,62,27)	CCSRCH471J50
C 953	(A,8,24)	CKSRYB104K50
C 981	(A,62,34)	CKSYB106K6R3
C 982	(A,59,29)	CKSRYB104K50
C 983	(A,70,38)	CCSRCH150J50
C 984	(A,56,35)	CKSRYB104K50

Monitor Unit**Consists of****Monitor PCB****Inverter PCB****Upper PCB****B F H****Unit Number:CWM9821(UC)****Unit Number:CWM9820(EW)****Unit Name:Monitor Unit****MISCELLANEOUS**

IC 4001	(A,119,33) IC	TC90A96AFG
IC 4101	(A,100,67) IC	NJM2100V
IC 4102	(A,142,49) IC	TC7SET04FUS1
IC 4103	(A,144,41) IC	TC7S66FU
IC 4104	(A,147,32) IC	NJM082BV
IC 4105	(A,95,66) IC	M62343FP
IC 4121	(A,96,57) IC	TC74VHC04FTS1
IC 4122	(A,91,60) IC	TC7SET04FUS1
IC 4171	(A,150,13) IC	TC7S04FU
IC 4181	(A,21,43) IC	BD6171KV
IC 4182	(A,74,16) IC	S-1131B25UC-N4K
IC 4183	(A,80,27) IC	S-1131B15UC-N4A
IC 4311	(B,7,106) IC	NJM062V
IC 4451	(A,144,21) IC	TC7WH08FU
IC 4452	(A,141,27) IC	TC7SH02FUS1
IC 4453	(A,144,28)	TC7SH32FUS1
IC 4531	(A,57,43) IC	TC7SET08FUS1
IC 4601	(A,68,60) IC	PEG087A
IC 4602	(A,49,66) IC	S-80827CNNB-B8M
IC 4604	(A,62,44) IC	TC7SET08FUS1
IC 4605	(A,64,43) IC	TC7SH08FUS1
IC 4606	(A,49,70) IC	S-818A33AUC-BGN
IC 4691	(A,40,16) IC	S-93C56BD0I-J8
IC 5341	(B,9,45) IC	OZ961ISN
IC 5345	(B,10,28) IC	TC7SET08FUS1
IC 5373	(B,11,8) IC	TA78L05F
Q 4001	(A,114,14) Transistor	2SC4617
Q 4101	(A,149,41) Transistor	UMX2N
Q 4102	(A,148,48) Transistor	UMT2N
Q 4181	(A,31,38) FET	RSQ035P03
Q 4182	(A,33,49) FET	RSQ035P03
Q 4301	(A,30,9) Transistor	2SC4617
Q 4440	(A,84,10) Transistor	2SC4081
Q 4441	(A,91,10) Transistor	2SA1576
Q 4501	(A,19,76) Transistor	UMF5N
Q 4502	(A,23,76) Transistor	UMF5N

G**Unit Number:CWM9816(UC)****Unit Number:CWM9815(EW)****Unit Name:RGB Unit****MISCELLANEOUS**

IC 981	(A,59,33) IC	TC7SET08FUS1
D 951	(A,38,28) Diode	HZU2R7(B1)
D 952	(A,36,28) Diode	HZU2R7(B1)
D 953	(A,18,18) Diode	HZU2R7(B1)
D 954	(A,22,18) Diode	HZU2R7(B1)
D 955	(A,13,23) Diode	HZU2R7(B1)
D 956	(A,17,23) Diode	HZU2R7(B1)
D 957	(A,15,21) Diode	HZU2R7(B1)
D 958	(A,18,19) Diode	HZU2R7(B1)
D 959	(A,13,24) Diode	HZU2R7(B1)
D 960	(A,17,24) Diode	HZU2R7(B1)
D 961	(A,56,27) Diode	UDZS5R6(B)
D 962	(A,16,26) Diode	UDZS5R6(B)
D 963	(A,12,26) Diode	UDZS5R6(B)
D 964	(A,16,28) Diode	UDZS5R6(B)
D 965	(A,12,28) Diode	UDZS5R6(B)
D 981	(A,65,40) Diode	UDZS5R6(B)
D 982	(A,59,35) Diode	UDZS5R6(B)
L 981	(A,56,31) Inductor	CTF1389
L 982	(A,57,15) Inductor	CTF1379

RESISTORS

R 982	(A,57,27)	RS1/16S0R0J
R 983	(A,57,33)	RS1/16S121J
R 984	(A,68,39)	RS1/16S473J
R 985	(A,70,40)	RS1/16S621J
R 986	(A,72,39)	RS1/16S221J
R 987	(A,67,9)	RS1/16S0R0J

5			6			7			8		
<u>Circuit Symbol and No.</u>			<u>Part No.</u>			<u>Circuit Symbol and No.</u>			<u>Part No.</u>		
Q 4503	(A,28,75)	Transistor	FMG12			D 5372	(B,12,33)	Diode	RB751V40		
Q 4602	(A,43,68)	Transistor	2SC4617			L 4001	(A,103,41)	Inductor	CTF1306		
Q 4603	(A,55,71)	Transistor	DTC114EE			L 4002	(A,100,35)	Inductor	CTF1306		
Q 4661	(A,66,11)	Transistor	2SC4617			L 4003	(A,103,36)	Inductor	CTF1306		A
Q 4662	(A,66,15)	Transistor	2SC4617			L 4004	(A,101,32)	Inductor	CTF1306		
Q 4663	(A,62,12)	Transistor	2SC4617			L 4005	(A,103,29)	Inductor	CTF1306		
Q 5002	(B,12,65)	Transistor	2SC4617			L 4006	(A,101,28)	Inductor	CTF1306		
Q 5003	(B,11,67)	Transistor	2SC4617			L 4007	(A,102,25)	Inductor	CTF1306		
Q 5005	(B,10,72)	Transistor	UMX2N			L 4008	(A,102,23)	Inductor	CTF1306		
Q 5342	(B,5,34)	Transistor	2SA1774			L 4009	(A,104,19)	Inductor	CTF1306		
Q 5343	(A,9,52)	FET	SI6544DQ			L 4010	(A,104,18)	Inductor	CTF1306		
Q 5344	(A,7,55)	FET	SI6544DQ			L 4011	(A,102,15)	Inductor	CTF1306		
Q 5371	(A,11,30)	Transistor	2SC4617			L 4012	(A,102,14)	Inductor	CTF1306		
Q 5372	(A,10,34)	Transistor	2SC4617			L 4013	(A,111,11)	Inductor	CTF1306		B
D 4181	(A,33,35)	Diode	RB160M-30			L 4018	(A,114,12)	Inductor	CTF1306		
D 4182	(A,38,49)	Diode	U2FWJ44N			L 4025	(A,119,16)	Inductor	CTF1306		
D 4183	(A,30,33)	Diode	RB548W			L 4030	(A,121,16)	Inductor	CTF1306		
D 4184	(A,28,33)	Diode	RB548W			L 4034	(A,125,16)	Inductor	CTF1306		
D 4185	(A,16,29)	Diode	RB548W			L 4036	(A,129,16)	Inductor	CTF1306		
D 4186	(A,12,33)	Diode	RB548W			L 4038	(A,131,19)	Inductor	CTF1306		
D 4187	(A,12,37)	Diode	RB548W			L 4039	(A,135,20)	Inductor	CTF1306		
D 4241	(A,75,28)	Diode	RB500V-40			L 4040	(A,135,21)	Inductor	CTF1306		
D 4242	(A,70,11)	Diode	RB500V-40			L 4041	(A,138,20)	Inductor	CTF1306		
D 4311	(B,8,125)	Photo Diode	AM-30-21			L 4042	(A,139,21)	Inductor	CTF1306		
D 4312	(B,4,131)	Diode	UDZS5R6(B)			L 4043	(A,138,23)	Inductor	CTF1306		C
D 4313	(B,12,133)	Diode	UDZS5R6(B)			L 4044	(A,135,24)	Inductor	CTF1306		
D 4331	(B,6,11)	Diode (EW)	CL-195SR-CD			L 4048	(A,135,26)	Inductor	CTF1306		
D 4332	(B,6,20)	Diode (EW)	CL-195SR-CD			L 4049	(A,136,27)	Inductor	CTF1306		
D 4333	(B,6,142)	Diode (EW)	CL-195SR-CD			L 4050	(A,135,28)	Inductor	CTF1306		
D 4334	(B,6,151)	Diode (EW)	CL-195SR-CD			L 4051	(A,136,30)	Inductor	CTF1306		
D 4351	(B,6,9)	LED	CL-195PG-CD			L 4052	(A,136,31)	Inductor	CTF1306		
D 4352	(B,6,21)	LED	CL-195PG-CD			L 4053	(A,135,34)	Inductor	CTF1306		
D 4353	(B,6,141)	LED	CL-195PG-CD			L 4054	(A,135,36)	Inductor	CTF1306		
D 4354	(B,6,152)	LED	CL-195PG-CD			L 4055	(A,135,37)	Inductor	CTF1306		
D 4371	(B,9,65)	LED	CL-190UB2-X			L 4056	(A,135,38)	Inductor	CTF1306		
D 4372	(B,9,81)	LED	CL-190UB2-X			L 4057	(A,136,40)	Inductor	CTF1306		D
D 4373	(B,9,96)	LED	CL-190UB2-X			L 4058	(A,138,41)	Inductor	CTF1306		
D 4501	(A,37,81)	Diode	UDZS5R6(B)			L 4059	(A,136,43)	Inductor	CTF1306		
D 4502	(A,35,84)	Diode	UDZS5R6(B)			L 4060	(A,135,44)	Inductor	CTF1306		
D 4503	(A,36,77)	Diode	UDZS5R6(B)			L 4061	(A,132,47)	Ferrite Bead	CTF1528		
D 4504	(A,39,76)	Diode	UDZS5R6(B)			L 4062	(A,132,48)	Ferrite Bead	CTF1528		
D 4505	(A,27,78)	Diode	MA111			L 4063	(A,130,48)	Ferrite Bead	CTF1528		
D 4591	(A,21,16)	Diode	UDZS5R6(B)			L 4064	(A,130,48)	Ferrite Bead	CTF1528		
D 4592	(A,21,14)	Diode	UDZS5R6(B)			L 4065	(A,129,48)	Ferrite Bead	CTF1528		
D 4593	(A,21,13)	Diode	UDZS5R6(B)			L 4066	(A,128,48)	Ferrite Bead	CTF1528		
D 4594	(A,11,16)	Diode	UDZS5R6(B)			L 4067	(A,127,48)	Ferrite Bead	CTF1528		
D 5001	(B,7,63)	Diode	UDZS8R2(B)			L 4068	(A,126,50)	Inductor	CTF1306		E
D 5201	(A,9,39)	LED	CL-195PG-CD			L 4069	(A,124,50)	Inductor	CTF1306		
D 5202	(A,9,26)	LED	CL-195PG-CD			L 4070	(A,123,49)	Ferrite Bead	CTF1528		
D 5203	(A,9,12)	LED	CL-195PG-CD			L 4071	(A,123,51)	Ferrite Bead	CTF1528		
D 5251	(A,7,39)	Diode (EW)	CL-195SR-CD			L 4072	(A,122,49)	Ferrite Bead	CTF1528		
D 5252	(A,7,26)	Diode (EW)	CL-195SR-CD			L 4073	(A,121,51)	Ferrite Bead	CTF1528		
D 5253	(A,7,12)	Diode (EW)	CL-195SR-CD			L 4074	(A,121,49)	Ferrite Bead	CTF1528		
D 5340	(B,5,70)	Diode	HZU6R2(B3)			L 4075	(A,120,51)	Ferrite Bead	CTF1528		
D 5341	(A,11,49)	Diode	HZU6R2(B3)			L 4076	(A,119,49)	Inductor	CTF1306		
D 5342	(A,6,49)	Diode	HZU6R2(B3)			L 4077	(A,118,49)	Ferrite Bead	CTF1528		
D 5343	(B,6,96)	Diode	MA143			L 4078	(A,118,51)	Ferrite Bead	CTF1528		
D 5344	(B,5,75)	Diode	MA143			L 4079	(A,117,49)	Ferrite Bead	CTF1528		F
D 5351	(B,8,25)	Diode	1SS355			L 4080	(A,116,51)	Ferrite Bead	CTF1528		
D 5371	(B,6,31)	Diode	UDZS6R2(B)			L 4081	(A,116,49)	Ferrite Bead	CTF1528		

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

L 4082	(A,115,51)	Ferrite Bead	CTF1528
L 4083	(A,114,50)	Inductor	CTF1306
L 4084	(A,112,52)	Inductor	CTF1306
A L 4085	(A,112,49)	Inductor	CTF1306

L 4086	(A,111,50)	Ferrite Bead	CTF1528
L 4087	(A,110,50)	Ferrite Bead	CTF1528
L 4088	(A,109,50)	Ferrite Bead	CTF1528
L 4089	(A,108,50)	Ferrite Bead	CTF1528
L 4090	(A,107,50)	Ferrite Bead	CTF1528

L 4091	(A,106,50)	Ferrite Bead	CTF1528
L 4092	(A,106,48)	Inductor	CTF1306
L 4093	(A,105,46)	Inductor	CTF1306
L 4094	(A,99,14)	Inductor	CTF1635
L 4095	(A,136,15)	Inductor	CTF1635

B L 4096	(A,95,17)	Inductor	CTF1635
L 4097	(A,139,44)	Inductor	CTF1635
L 4098	(A,101,38)	Inductor	CTF1635
L 4099	(A,99,18)	Inductor	CTF1635
L 4100	(A,46,53)	Choke Coil 18μH	CTH1250

L 4101	(A,141,33)	Inductor	LCKAW101J2520
L 4102	(A,150,27)	Inductor	LCKAW101J2520
L 4105	(A,146,45)	Inductor	CTF1306
L 4121	(A,96,49)	Inductor	CTF1635
L 4122	(A,97,61)	Inductor	CTF1306

C L 4123	(A,92,55)	Inductor	CTF1306
L 4151	(A,133,53)	Chip Inductor	DTL1096
L 4152	(A,128,53)	Inductor	CTF1635
L 4153	(A,136,54)	Inductor	CTF1635
L 4161	(A,144,55)	Chip Inductor	DTL1096

L 4171	(A,142,15)	Inductor	LCKAW101J2520
L 4172	(A,150,16)	Inductor	CTF1306
L 4173	(A,146,12)	Inductor	CTF1379
L 4181	(A,23,25)	Chip Inductor	DTL1096
L 4185	(A,42,60)	Choke Coil 10μH	CTH1249

D L 4186	(A,10,47)	Inductor	CTF1635
L 4195	(A,26,26)	Inductor	CTF1635
L 4203	(A,36,30)	Choke Coil 68μH	CTH1318
L 4207	(A,12,27)	Inductor	CTF1635
L 4214	(A,36,55)	Choke Coil 18μH	CTH1250

L 4311	(B,11,114)	Inductor	LCKBW100K2520
L 4423	(A,79,15)	Inductor	LCKAW101J2520
L 4424	(A,88,15)	Inductor	LCTAW220J2520
L 4425	(A,91,15)	Chip Coil	LCTAW270J2520
L 4451	(A,145,15)	Inductor	LCKAW101J2520

E L 4521	(A,88,81)	Coil	CTH1338
L 4531	(A,54,43)	Inductor	CTF1306
L 4541	(A,24,70)	Inductor	CTF1488
L 4601	(A,51,79)	Inductor	LCKBW100K2520
L 4602	(A,43,72)	Inductor	LCKBW100K2520

T 5341	(A,8,79)	Transformer	CTT1126
TH4301	(A,32,11)	Thermistor	CCX1051
X 4001	(A,107,13)	Crystal Resonator 42MHz	CSS1604
X 4601	(A,66,49)	Radiator 10.0MHz	CSS1577
S 4391	(B,8,5)	Push Switch	CSG1126

S 4392	(B,8,25)	Push Switch	CSG1126
S 4393	(B,8,137)	Push Switch	CSG1126
S 4394	(B,8,156)	Push Switch	CSG1126
S 5101	(A,11,39)	Push Switch	CSG1155
S 5102	(A,11,26)	Push Switch	CSG1155

S 5103	(A,11,12)	Push Switch	CSG1155
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Circuit Symbol and No.**Part No.**

VR5341	(A,10,43)	Semi-fixed 15kΩ(B)	CCP1424
⚠ FU4541	(A,29,70)	Fuse 500mA	CEK1251
⚠ FU5341	(B,4,27)	Fuse 1.25A	CEK1281
EF4401	(A,88,39)	EMI Filter	CCG1082
EF4402	(A,88,35)	EMI Filter	CCG1082
EF4403	(A,89,32)	EMI Filter	CCG1082

RESISTORS

R 4001	(A,111,17)	RS1/16SS105J
R 4002	(A,110,14)	RS1/16SS391J
R 4003	(A,114,16)	RS1/16SS152J
R 4004	(A,116,16)	RS1/16SS331J
R 4005	(A,120,10)	RS1/16S0R0J

R 4061	(A,138,34)	RS1/16SS333J
R 4062	(A,134,48)	RAB4CQ221J
R 4063	(A,128,50)	RAB4CQ221J
R 4064	(A,122,53)	RAB4CQ221J
R 4065	(A,119,53)	RAB4CQ221J

R 4066	(A,134,33)	RS1/16S102J
R 4067	(A,116,53)	RAB4CQ221J
R 4068	(A,110,52)	RAB4CQ221J
R 4069	(A,107,52)	RAB4CQ221J
R 4070	(A,135,18)	RS1/16S0R0J

R 4101	(A,104,63)	RS1/16S101J
R 4102	(A,104,67)	RS1/16S101J
R 4103	(A,151,36)	RS1/16SS472J
R 4104	(A,151,31)	RS1/16SS223J
R 4106	(A,145,34)	RS1/16S3302F

R 4107	(A,144,32)	RS1/16S5602F
R 4108	(A,148,39)	RS1/16S101J
R 4111	(A,150,43)	RS1/16S153J
R 4112	(A,151,45)	RS1/16SS153J
R 4113	(A,148,44)	RS1/16SS0R0J

R 4114	(A,150,45)	RS1/16SS0R0J
R 4115	(A,150,39)	RS1/16SS100J
R 4116	(A,151,47)	RS1/16SS100J
R 4117	(A,143,46)	RS1/16SS681J
R 4118	(A,90,65)	RAB4CQ221J

R 4122	(A,101,61)	RS1/16S27R0D
R 4124	(A,101,59)	RS1/16S10R0D
R 4125	(A,105,61)	RS1/16S6800D
R 4126	(A,103,60)	RS1/16S1000D
R 4128	(A,104,58)	RS1/16S82R0F

R 4132	(A,104,57)	RS1/16S56R0D
R 4134	(A,102,54)	RS1/16S47R0D
R 4136	(A,102,53)	RS1/16S36R0D
R 4138	(A,102,51)	RS1/16S33R0F
R 4142	(A,100,53)	RS1/16S27R0D

R 4144	(A,101,55)	RS1/16S1800D
R 4146	(A,101,57)	RS1/16S82R0F
R 4148	(A,101,58)	RS1/16S12R0F
R 4151	(A,132,56)	RS1/16S102J
R 4171	(A,148,15)	RS1/16SS102J

R 4173	(A,140,15)	RS1/16SS102J
R 4174	(A,140,17)	RS1/16SS101J
R 4175	(A,140,19)	RS1/16SS101J
R 4181	(A,26,31)	RS1/16S3303D
R 4182	(A,25,35)	RS1/16S1802D

R 4183	(A,24,35)	RS1/16S4300D
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5		6		7		8		
<u>Circuit Symbol and No.</u>		<u>Part No.</u>		<u>Circuit Symbol and No.</u>		<u>Part No.</u>		
R 4184	(A,22,35)	RS1/16S5102D		R 4439	(A,88,8)	RS1/16S391J		
R 4185	(A,14,43)	RS1/16S2202F		R 4440	(A,92,29)	RS1/16SS0R0J		
R 4186	(A,13,45)	RS1/16S1802F		R 4442	(A,87,12)	RS1/16SS104J		
R 4187	(A,15,45)	RS1/16S1002F		R 4444	(A,92,18)	RS1/16SS272J		A
R 4188	(A,30,42)	RS1/16S563J		R 4445	(A,88,9)	RS1/16S471J		
R 4191	(A,29,44)	RS1/16S150J		R 4446	(A,87,11)	RS1/16SS681J		
R 4192	(A,27,49)	RS1/16S150J		R 4448	(A,85,19)	RS1/16S472J		
R 4193	(A,30,50)	RS1/16S273J		R 4449	(A,86,19)	RS1/16SS104J		
R 4194	(A,27,53)	RS1/16S1600D		R 4450	(A,84,13)	RS1/16SS153J		
R 4195	(A,28,55)	RS1/16S1001D		R 4451	(A,150,20)	RAB4CQ101J		
R 4196	(A,28,52)	RS1/16S2700D		R 4452	(A,151,23)	RS1/16SS473J		
R 4201	(A,24,59)	RS1/16S682J		R 4454	(A,145,18)	RS1/16SS473J		
R 4203	(A,15,53)	RS1/16S5100F		R 4455	(A,147,22)	RS1/16SS473J		
R 4204	(A,21,51)	RS1/16S2001F		R 4456	(A,149,22)	RS1/16SS101J		B
R 4216	(A,25,50)	RS1/16S333J		R 4501	(A,20,79)	RS1/16SS105J		
R 4217	(A,26,56)	RS1/16S102J		R 4502	(A,23,79)	RS1/16SS105J		
R 4218	(A,24,56)	RS1/16S684J		R 4503	(A,18,74)	RS1/16SS103J		
R 4219	(A,23,62)	RS1/16S6801F		R 4504	(A,20,74)	RS1/16SS103J		
R 4220	(A,20,61)	RS1/16S1001D		R 4505	(A,22,74)	RS1/16SS103J		
R 4221	(A,23,61)	RS1/16S201J		R 4506	(A,24,74)	RS1/16SS103J		
R 4222	(A,23,54)	RS1/16S123J		R 4507	(A,33,76)	RS1/16SS102J		
R 4241	(A,76,28)	RS1/16SS684J		R 4508	(A,31,77)	RS1/16SS102J		
R 4242	(A,74,22)	RS1/16SS474J		R 4521	(A,97,72)	RS1/16SS101J		
R 4251	(A,137,28)	RS1/16SS470J		R 4522	(A,96,74)	RS1/16SS101J		
R 4252	(A,139,31)	RS1/16SS470J		R 4523	(A,102,74)	RS1/16SS101J		C
R 4253	(A,139,32)	RS1/16SS471J		R 4524	(A,101,74)	RS1/16SS101J		
R 4305	(A,33,14)	RS1/16SS153J		R 4525	(A,99,75)	RS1/16SS101J		
R 4308	(A,28,8)	RS1/16SS104J		R 4526	(A,98,75)	RS1/16SS101J		
R 4309	(A,31,6)	RS1/16S103J		R 4531	(A,59,41)	RS1/16SS101J		
R 4311	(B,7,112)	RS1/16S155J		R 4532	(A,55,44)	RS1/16SS103J		
R 4312	(B,7,117)	RS1/16S105J		R 4541	(A,74,77)	RS1/16SS471J		
R 4313	(B,7,100)	RS1/16S393J		R 4563	(A,65,74)	RS1/16S0R0J		
R 4314	(B,7,101)	RS1/16S103J		R 4564	(A,61,75)	RS1/16S0R0J		
R 4315	(B,9,99)	RS1/16S203J		R 4565	(A,67,45)	RS1/16S0R0J		
R 4316	(B,7,98)	RS1/16S393J		R 4566	(A,69,46)	RS1/16S0R0J		
R 4331	(B,4,17) (EW)	RS1/16S271J		R 4591	(A,12,16)	RS1/16SS101J		D
R 4332	(B,5,16) (EW)	RS1/16S271J		R 4592	(A,24,11)	RS1/16SS101J		
R 4333	(B,4,14) (EW)	RS1/16S181J		R 4593	(A,24,13)	RS1/16SS101J		
R 4334	(B,5,13) (EW)	RS1/16S181J		R 4594	(A,21,18)	RS1/16SS101J		
R 4335	(B,9,45) (EW)	RS1/16S271J		R 4601	(A,50,73)	RS1/16SS103J		
R 4336	(B,9,48) (EW)	RS1/16S271J		R 4602	(A,55,54)	RS1/16SS473J		
R 4337	(B,8,87) (EW)	RS1/16S181J		R 4603	(A,55,46)	RS1/16SS103J		
R 4338	(B,8,90) (EW)	RS1/16S181J		R 4604	(A,39,67)	RS1/16SS473J		
R 4351	(B,11,19)	RS1/16S271J		R 4605	(A,41,68)	RS1/16SS473J		
R 4352	(B,11,16)	RS1/16S271J		R 4606	(A,45,69)	RS1/16SS473J		
R 4353	(B,11,10)	RS1/16S331J		R 4607	(A,63,48)	RS1/16SS101J		
R 4354	(B,4,7)	RS1/16S331J		R 4608	(A,47,66)	RS1/16SS103J		E
R 4355	(B,8,45)	RS1/16S271J		R 4609	(A,71,49)	RS1/16SS101J		
R 4356	(B,8,48)	RS1/16S271J		R 4611	(A,76,42)	RS1/16SS272J		
R 4357	(B,7,87)	RS1/16S331J		R 4612	(A,75,41)	RS1/16SS272J		
R 4358	(B,7,90)	RS1/16S331J		R 4613	(A,66,45)	RS1/16SS471J		
R 4371	(B,7,58)	RS1/16S101J		R 4614	(A,64,47)	RS1/16SS471J		
R 4372	(B,8,60)	RS1/16S101J		R 4616	(A,82,50)	RAB4CQ102J		
R 4373	(B,8,61)	RS1/16S101J		R 4617	(A,82,61)	RS1/16SS473J		
R 4374	(B,8,63)	RS1/16S221J		R 4619	(A,72,70)	RS1/16SS0R0J		
R 4375	(B,9,69)	RS1/16S221J		R 4620	(A,70,71)	RS1/16SS0R0J		
R 4376	(B,9,72)	RS1/16S221J		R 4621	(A,57,70)	RS1/16SS473J		
R 4377	(B,9,74)	RS1/16S221J		R 4622	(A,56,69)	RS1/16SS473J		F
R 4378	(B,9,77)	RS1/16S221J		R 4625	(A,31,24)	RS1/16SS473J		
R 4426	(A,77,76)	RS1/16SS0R0J		R 4626	(A,53,62)	RAB4CQ473J		

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

A	R 4627	(A,53,59)	RS1/16SS471J				
	R 4628	(A,54,66)	RS1/16SS471J	C 4012	(A,111,18)	CKSSYF104Z16	
	R 4630	(A,58,49)	RAB4CQ473J	C 4013	(A,114,18)	CKSSYF104Z16	
	R 4635	(A,76,70)	RS1/16SS102J	C 4014	(A,105,14)	CCSSCH9R0D50	
	R 4636	(A,75,70)	RS1/16SS472J	C 4015	(A,110,12)	CCSSCH9R0D50	
	R 4665	(A,64,11)	RS1/16SS1002D	C 4016	(A,113,16)	CKSSYB103K16	
	R 4666	(A,65,14)	RS1/16SS1002D	C 4017	(A,112,14)	CCSSCH181J25	
	R 4667	(A,60,12)	RS1/16SS1002D	C 4018	(A,116,18)	CKSSYF104Z16	
	R 4668	(A,65,12)	RS1/16SS5602F	C 4019	(A,115,16)	CCSSCH4R0C50	
	R 4669	(A,64,15)	RS1/16SS5602F	C 4020	(A,113,14)	CKSSYF104Z16	
	R 4670	(A,62,14)	RS1/16SS5602F	C 4022	(A,116,14)	CKSSYB104K10	
	R 4671	(A,63,9)	RS1/16SS5602F	C 4023	(A,117,15)	CKSSYB104K10	
B	R 4672	(A,67,14)	RS1/16SS5602F	C 4024	(A,117,17)	CKSSYB104K10	
	R 4673	(A,60,10)	RS1/16SS5602F	C 4025	(A,119,18)	CKSSYF104Z16	
	R 4674	(A,65,9)	RS1/16SS102J	C 4026	(A,121,12)	CKSSYB104K10	
	R 4675	(A,67,12)	RS1/16SS102J	C 4027	(A,122,13)	CKSSYB104K10	
	R 4676	(A,62,10)	RS1/16SS102J	C 4028	(A,120,14)	CKSSYB104K10	
	R 4692	(A,41,12)	RS1/16S103J	C 4030	(A,121,18)	CKSSYF104Z16	
	R 4701	(A,88,47)	RS1/10S103J	C 4031	(A,123,15)	CKSSYB104K10	
	R 4708	(A,99,30)	RS1/16S0R0J	C 4032	(A,122,17)	CKSSYB104K10	
	R 5002	(B,7,67)	RS1/16S621J	C 4033	(A,123,17)	CKSSYB104K10	
	R 5003	(B,9,63)	RS1/16S103J	C 4034	(A,124,17)	CKSSYB104K10	
	R 5004	(B,11,63)	RS1/16S104J	C 4035	(A,125,18)	CKSSYF104Z16	
	R 5005	(B,7,66)	RS1/16S473J	C 4036	(A,125,12)	CKSSYB104K10	
C	R 5006	(B,8,70)	RS1/16S621J	C 4037	(A,126,12)	CKSSYB104K10	
	R 5007	(B,4,68)	RS1/16S821J	C 4038	(A,127,12)	CKSSYB104K10	
	R 5008	(B,12,73)	RS1/16S101J	C 4039	(A,127,16)	CKSSYB104K10	
	R 5009	(B,12,70)	RS1/16S101J	C 4040	(A,128,16)	CKSSYB104K10	
	R 5221	(A,8,10)	RS1/16SS151J	C 4041	(A,128,18)	CKSSYF104Z16	
	R 5222	(A,5,12)	RS1/16SS151J	C 4043	(A,133,11)	CKSRYB104K50	
	R 5223	(A,5,14)	RS1/16SS101J	C 4044	(A,129,18)	CKSSYF104Z16	
	R 5224	(A,5,15)	RS1/16SS101J	C 4045	(A,133,21)	CKSSYF104Z16	
	R 5251	(A,8,18) (EW)	RAB4CQ181J	C 4046	(A,134,23)	CKSSYF104Z16	
	R 5342	(B,9,31)	RS1/16S103J	C 4047	(A,133,25)	CKSSYF104Z16	
	R 5343	(B,5,37)	RS1/16S333J	C 4049	(A,134,27)	CKSSYF104Z16	
	R 5344	(B,5,33)	RS1/16S473J	C 4053	(A,133,31)	CKSSYF104Z16	
D	R 5345	(B,5,29)	RS1/16S472J	C 4054	(A,133,35)	CKSSYF104Z16	
	R 5346	(B,4,66)	RS1/16S513J	C 4055	(A,133,37)	CKSSYF104Z16	
	R 5347	(B,4,72)	RS1/16S105J	C 4056	(A,133,38)	CKSSYF104Z16	
	R 5348	(A,12,44)	RS1/16S563J	C 4057	(A,134,40)	CKSSYF104Z16	
	R 5349	(A,5,47)	RS1/16S103J	C 4058	(A,135,41)	CKSSYF104Z16	
	R 5351	(A,9,47)	RS1/16S103J	C 4059	(A,134,42)	CKSSYF104Z16	
	R 5353	(B,4,92)	RS1/16S511J	C 4060	(A,133,45)	CKSRYF105Z10	
	R 5371	(B,7,35)	RS1/16S103J	C 4062	(A,137,33)	CKSSYF104Z16	
E	R 5372	(A,8,30)	RS1/16S104J	C 4068	(A,126,47)	CKSSYF104Z16	
	R 5373	(B,8,36)	RS1/16S473J	C 4069	(A,124,48)	CKSSYF104Z16	
	R 5374	(B,11,37)	RS1/16S105J	C 4076	(A,120,47)	CKSSYF104Z16	
	R 5378	(B,12,30)	RS1/16S102J	C 4083	(A,115,47)	CKSSYF104Z16	

CAPACITORS

	C 4001	(A,104,43)	CKSSYF104Z16				
	C 4002	(A,104,39)	CKSSYF104Z16	C 4091	(A,49,58)	CKSRYB104K50	
	C 4003	(A,104,37)	CKSSYF104Z16	C 4092	(A,109,47)	CKSSYF104Z16	
	C 4004	(A,104,33)	CKSSYF104Z16	C 4093	(A,106,46)	CKSSYF104Z16	
F	C 4005	(A,104,31)	CKSSYF104Z16	C 4094	(A,115,10)	CKSYF105Z16	
	C 4006	(A,104,27)	CKSSYF104Z16	C 4095	(A,133,15)	CSZSR330M10	
	C 4007	(A,104,25)	CKSSYF104Z16	C 4096	(A,97,14)	CKSYF105Z16	
	C 4008	(A,104,22)	CKSSYF104Z16	C 4097	(A,141,43)	CSZS100M16	
	C 4009	(A,107,18)	CKSSYF104Z16	C 4098	(A,100,41)	CSZSR220M10	
	C 4011	(A,109,18)	CKSSYF104Z16	C 4099	(A,100,20)	CSZSR220M10	
				C 4100	(A,101,45)	CSZSR330M10	

5			6			7			8		
Circuit Symbol and No.			Part No.			Circuit Symbol and No.			Part No.		
C 4101	(A,144,47)		CKSSYF104Z16			C 4219	(A,26,49)		CKSRYB103K50		
C 4102	(A,99,71)		CKSSYF104Z16			C 4221	(A,26,55)		CCSRCH331J50		A
C 4103	(A,144,44)		CKSRYB105K6R3			C 4223	(A,26,57)		CKSRYB393K16		
C 4104	(A,145,39)		CKSRYB104K50			C 4224	(A,22,56)		CKSRYB103K50		
C 4105	(A,144,37)		CKSSYF104Z16			C 4226	(A,22,59)		CKSRYB473K50		
C 4106	(A,145,25)		CKSRYB104K50			C 4228	(A,17,53)		CKSRYB393K16		
C 4107	(A,141,38)		CSZSR220M16			C 4229	(A,14,47)		CKSRYB393K16		
C 4108	(A,147,25)	4.7μF	CCG1111			C 4230	(A,32,62)		CKSRYB102K50		
C 4109	(A,96,70)		CSZS100M16			C 4231	(A,17,50)		CKSRYB104K50		
C 4111	(A,149,37)		CKSRYB105K6R3			C 4232	(A,19,51)		CSZS100M16		
C 4112	(A,151,33)		CKSRYB104K50			C 4233	(A,14,48)		CKSRYB105K6R3		
C 4121	(A,91,57)		CKSRYF104Z16			C 4234	(A,10,50)		CKSRYB104K50		
C 4122	(A,98,53)		CKSSYF104Z16			C 4235	(A,21,31)		CKSRYB103K50		B
C 4123	(A,97,51)		CSZS100M16			C 4236	(A,81,24)		CKSRYF105Z10		
C 4151	(A,134,51)		CKSSYF104Z16			C 4237	(A,80,31)		CKSSYB104K10		
C 4152	(A,128,58)		CKSSYF104Z16			C 4238	(A,77,31)		CSZS100M10		
C 4153	(A,136,52)		CKSRYB104K50			C 4239	(A,17,38)		CKSSYF104Z16		
C 4154	(A,135,56)		CKSRYB104K50			C 4240	(A,33,45)		CKSRYB103K50		
C 4155	(A,134,55)		CKSSYF104Z16			C 4241	(A,75,20)		CKSRYF105Z10		
C 4156	(A,128,56)		CSZSR330M10			C 4242	(A,74,13)		CKSSYB104K10		
C 4157	(A,138,56)		CKSQYF334Z25			C 4243	(A,71,15)		CSZS100M10		
C 4158	(A,132,52)		CSZS100M16			C 4244	(A,77,24)		CSZS100M16		
C 4161	(A,130,51)		CKSSYF104Z16			C 4245	(A,75,12)		CKSSYF104Z16		
C 4162	(A,146,53)		CKSRYB104K50			C 4248	(A,77,28)		CKSSYB104K10		
C 4163	(A,140,53)	4.7μF	CCG1111			C 4261	(A,41,10)		CKSRYB104K50		C
C 4164	(A,141,56)		CKSRYB104K50			C 4301	(A,30,6)		CKSRYB105K6R3		
C 4172	(A,144,12)		CKSRYB104K50			C 4302	(A,33,10)		CKSRYB104K50		
C 4181	(A,20,27)		CKSQYF105Z25			C 4311	(B,7,114)		CKSRYB474K10		
C 4182	(A,30,27)		CKSQYF105Z25			C 4312	(B,7,115)		CKSRYB104K50		
C 4183	(A,29,29)		CKSRYB104K50			C 4313	(B,4,117)		CKSRYB104K50		
C 4184	(A,24,33)		CKSQYF105Z25			C 4314	(B,10,117)		CKSRYB104K50		
C 4188	(A,13,31)		CKSQYF105Z25			C 4315	(B,5,106)		CKSRYB104K50		
C 4190	(A,11,41)		CKSQYF225Z16			C 4371	(B,6,65)		CKSRYB104K50		
C 4191	(A,11,40)		CKSQYF225Z16			C 4372	(B,6,80)		CKSRYB104K50		
C 4192	(A,11,43)		CKSQYF105Z25			C 4373	(B,6,95)		CKSRYB104K50		D
C 4193	(A,15,35)		CKSRYF474Z16			C 4430	(A,91,18)		CCSSCH470J50		
C 4194	(A,16,31)		CKSRYF474Z16			C 4431	(A,90,18)		CCSSCH680J50		
C 4195	(A,20,31)		CKSYF475Z16			C 4432	(A,89,18)		CCSSCH470J50		
C 4196	(A,26,35)		CKSRYB472K50			C 4433	(A,85,15)	10μF	CCG1171		
C 4197	(A,29,35)		CKSRYB472K50			C 4438	(A,81,13)		CKSSYF104Z16		
C 4198	(A,26,23)		CKSQYF105Z25			C 4439	(A,90,12)		CCSSCH5R0C50		
C 4199	(A,15,37)		CKSRYF474Z16			C 4440	(A,82,16)		CSZSR330M10		
C 4200	(A,11,35)		CKSQYF105Z25			C 4452	(A,141,30)		CKSSYB104K10		
C 4201	(A,43,30)	33μF/10V	CCH1586			C 4453	(A,143,19)		CKSSYB104K10		
C 4202	(A,40,29)		CKSRYB104K50			C 4454	(A,144,30)		CKSSYB104K10		
C 4203	(A,33,39)		CKSRYB103K50			C 4455	(A,149,18)		CSZS100M10		E
C 4204	(A,36,38)	10μF	CCG1138			C 4501	(A,38,81)		CKSSYB102K10		
C 4205	(A,27,38)		CKSRYB103K50			C 4502	(A,37,85)		CKSSYB102K10		
C 4206	(A,28,38)		CKSRYB105K6R3			C 4503	(A,37,78)		CKSSYB102K10		
C 4207	(A,10,27)		CKSQYF105Z25			C 4504	(A,38,75)		CKSSYB102K10		
C 4208	(A,30,45)		CKSRYB102K50			C 4506	(A,34,76)		CKSSYB102K10		
C 4209	(A,29,42)		CKSRYB104K50			C 4507	(A,33,78)		CKSSYB102K10		
C 4210	(A,46,62)		CKSQYF105Z25			C 4508	(A,33,75)		CKSRYB105K6R3		
C 4211	(A,30,47)		CKSRYB105K6R3			C 4521	(A,82,80)	10μF	CCG1138		
C 4212	(A,36,45)	10μF	CCG1138			C 4522	(A,78,80)	10μF	CCG1138		
C 4213	(A,30,48)		CKSRYB104K50			C 4531	(A,57,41)		CKSSYB104K10		F
C 4214	(A,39,45)	10μF	CCG1138			C 4541	(A,21,68)		CKSQYF224Z25		
C 4215	(A,38,51)		CKSRYB104K50			C 4601	(A,49,75)		CSZSR330M10		
C 4216	(A,41,53)	68μF/6.3V	CCH1440			C 4602	(A,47,73)		CKSSYB104K10		
C 4217	(A,25,53)		CCSRCH101J50			C 4603	(A,45,72)		CKSQYB225K10		

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

A	C 4604	(A,36,70)	CSZS330M6R3
	C 4608	(A,70,50)	CKSSYB104K10
	C 4609	(A,64,41)	CKSSYB104K10
	C 4610	(A,62,41)	CKSSYB104K10
	C 4611	(A,45,66)	CKSSYB104K10

D 5523	(A,9,7) LED (EW)	CL-195SR-CD
D 5524	(A,154,14) LED	CL-195PG-CD
D 5525	(A,154,13) LED (EW)	CL-195SR-CD
D 5526	(A,150,9) LED	CL-195PG-CD
D 5527	(A,151,10) LED (EW)	CL-195SR-CD
D 5528	(A,100,11) LED	CL-195SR-CD
S 5501	(A,44,3) Push Switch	CSG1155

C 4668	(A,76,40) 2.2μF	CCG1179
C 4669	(A,75,49) 2.2μF	CCG1179
C 4670	(A,77,40) 2.2μF	CCG1179
C 4691	(A,35,16)	CKSSYB104K10
C 5002	(B,10,69)	CKSRYB104K50

S 5502	(A,75,3) Push Switch	CSG1155
S 5503	(A,54,3) Push Switch	CSG1155
S 5504	(A,9,17) Push Switch	CSG1155
S 5505	(A,9,3) Push Switch	CSG1155
S 5506	(A,24,4) Push Switch	CSG1155

B	C 5343	(B,10,34)	CKSRYB104K50
	C 5344	(B,12,40)	CKSRYB105K10
	C 5345	(A,13,34)	CKSQYB474K16
	C 5346	(B,8,38)	CKSRYF105Z10
	C 5347	(B,8,40)	CKSRYF104Z50

S 5507	(A,91,3) Push Switch	CSG1155
S 5508	(A,112,3) Push Switch	CSG1155
S 5509	(A,121,3) Push Switch	CSG1155
S 5510	(A,142,4) Push Switch	CSG1155
S 5511	(A,162,10) Push Switch	CSG1155

C 5348	(B,4,38)	CKSRYB332K50
C 5349	(B,4,41)	CKSRYB152K50
C 5352	(B,12,39)	CKSRYB103K50
C 5353	(A,5,51)	CKSRYB473K50
C 5354	(B,11,50)	CFHXSQ221J50

S 5512	(A,154,17) Push Switch	CSG1155
S 5513	(A,154,3) Push Switch	CSG1155
S 5514	(A,147,10) Push Switch	CSG1155
S 5515	(A,143,14) Push Switch	CSG1155
S 5516	(A,162,20) Push Switch	CSG1155

C	C 5355	(A,12,47)	CKSRYB473K50
	C 5356	(B,8,54) 10μF	CCG1138
	C 5357	(B,8,58) 10μF	CCG1138
	C 5358	(A,10,59)	CKSQYB105K10
	C 5359	(A,8,99) 22pF	CCG1140

S 5517 (A,83,8) Switch CSN1057

RESISTORS

C 5361	(B,4,89)	CKSRYB223K50
C 5362	(A,12,59)	CKSQYB105K10
C 5371	(B,13,12)	CKSRYF104Z50
C 5372	(B,8,9)	CKSRYF105Z10
C 5391	(B,12,27)	CKSRYF104Z50

R 5501	(B,63,6)	RS1/16S122J
R 5502	(A,63,4)	RS1/16S202J
R 5503	(B,24,5)	RS1/16S392J
R 5504	(B,7,9)	RS1/16S123J
R 5505	(B,60,9) (EW)	RS1/16S220J

Unit Number:
Unit Name:Keyboard Unit

R 5506	(A,83,4)	RS1/16S122J
R 5507	(B,112,6)	RS1/16S202J
R 5508	(B,116,6)	RS1/16S392J
R 5509	(B,142,6)	RS1/16S123J
R 5510	(B,156,6)	RS1/16S122J

MISCELLANEOUS

IC 5501	(A,19,11) IC	TSOP4840SB1
D 5501	(B,58,9) LED (EW)	CL-195SR-CD
D 5502	(A,58,5) LED	CL-190UB2-X
D 5503	(A,121,5) LED	CL-190UB2-X
D 5504	(A,95,5) LED	CL-190UB2-X

R 5511	(B,160,12)	RS1/16S202J
R 5512	(B,159,10)	RS1/16S392J
R 5513	(B,146,8)	RS1/16S123J
R 5515	(B,44,6)	RS1/16S221J
R 5516	(B,106,4)	RS1/16S221J

D 5505	(A,71,5) LED	CL-190UB2-X
D 5506	(A,44,5) LED	CL-190UB2-X
D 5507	(A,108,5) LED	CL-190UB2-X
D 5508	(A,84,12) LED	CL-190UB2-X
D 5509	(B,24,12) Diode	UDZS6R8(B)

R 5517	(B,94,9)	RS1/16S221J
R 5518	(B,70,5)	RS1/16S391J
R 5519	(B,47,6)	RS1/16S221J
R 5520	(B,109,4)	RS1/16S221J
R 5521	(B,96,9)	RS1/16S221J

D 5510	(A,27,4) LED	CL-195PG-CD
D 5511	(A,29,4) LED (EW)	CL-195SR-CD
D 5512	(A,154,5) LED	CL-195PG-CD
D 5513	(A,154,7) LED (EW)	CL-195SR-CD
D 5514	(A,139,12) LED	CL-195PG-CD

R 5522	(B,73,5)	RS1/16S391J
R 5523	(B,50,6)	RS1/16S221J
R 5524	(B,112,4)	RS1/16S221J
R 5525	(B,97,9)	RS1/16S221J
R 5526	(B,73,4)	RS1/16S331J

D 5515	(A,138,12) LED (EW)	CL-195SR-CD
D 5516	(A,11,14) LED	CL-195PG-CD
D 5517	(A,9,14) LED (EW)	CL-195SR-CD
D 5518	(A,159,10) LED	CL-195PG-CD
D 5519	(A,158,10) LED (EW)	CL-195SR-CD

R 5527	(B,40,5)	RS1/16S151J
R 5528	(B,156,14)	RS1/16S151J
R 5529	(B,136,12)	RS1/16S151J
R 5530	(B,38,5)	RS1/16S121J
R 5531	(B,157,12)	RS1/16S121J

D 5520	(A,138,4) LED	CL-195PG-CD
D 5521	(A,137,4) LED (EW)	CL-195SR-CD
D 5522	(A,11,6) LED	CL-195PG-CD

R 5532	(B,138,12)	RS1/16S121J
R 5533	(B,36,5)	RS1/16S121J
R 5534	(B,157,10)	RS1/16S121J
R 5535	(B,139,12)	RS1/16S121J

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 5536	(B,32,10)		RS1/16S103J			D 1102	Diode		1SS355		
R 5537	(B,33,12)		RS1/16S101J			D 1241	Chip LED		CL205IRXTU		
R 5538	(B,34,5)		RS1/16S121J			L 1001	Inductor		CTF1623		A
R 5539	(B,157,8)		RS1/16S121J			L 1002	Inductor		CTF1624		
R 5540	(B,137,9)		RS1/16S121J			L 1003	Inductor		CTF1558		
R 5541	(B,29,9)		RS1/16S101J			L 1004	Inductor		CTF1558		
R 5542	(B,105,10)		RS1/16S101J			L 1051	Inductor		CTF1473		
R 5543	(B,105,11)		RS1/16S101J			L 1101	Inductor		CTF1305		
R 5544	(A,9,8) (EW)		RS1/16S750J			L 1501	Inductor		CTF1378		
R 5545	(B,151,10) (EW)		RS1/16S750J			L 1502	Inductor		CTF1487		
R 5546	(B,149,11) (EW)		RS1/16S750J			L 1503	Inductor		CTF1488		
CAPACITORS						L 1554	Inductor		CTF1473		
C 5501	(A,59,4)		CKSRYB104K50			L 1555	Inductor		CTF1473		
C 5502	(A,121,7)		CKSRYB104K50			L 1556	Inductor		CTF1400		B
C 5503	(A,96,4)		CKSRYB104K50			L 1557	Inductor		CTF1395		
C 5504	(A,70,4)		CKSRYB104K50			L 1558	Inductor		CTF1473		
C 5505	(A,44,7)		CKSRYB104K50			L 1561	Inductor		CTF1473		
C 5506	(A,106,4)		CKSRYB104K50			L 1601	Inductor		CTF1464		
C 5507	(A,86,11)		CKSRYB104K50			L 1651	Inductor		CTF1464		
C 5508	(B,26,10)		CKSYB475K16			L 1671	Inductor		CTF1473		
C	Unit Number: CWX3170					L 1801	Inductor		CTF1558		
	Unit Name: DVD Core Unit					L 1802	Inductor		CTF1558		
						L 1803	Inductor		CTF1464		
						L 1804	Inductor		CTF1468		
						L 1851	Inductor		CTF1471		C
						L 1852	Inductor		CTF1473		
						L 1901	Inductor		CTF1487		
						L 1902	Inductor		CTF1558		
						L 1903	Inductor		CTF1558		
						L 1904	Inductor		CTF1468		
IC 1001	IC		S-L2980A50MC-C7J			L 1905	Inductor		CTF1468		
IC 1002	IC		R1130H501B			X 1051	Resonator 4.91MHz		CSS1668		
IC 1003	IC		LTC3411EMS			X 1801	Resonator 27.0000MHz		CSS1661		
IC 1051	IC		PE5401A			VR1551	Semi-fixed 10kΩ(B)		CCP1448		
IC 1201	IC		AN8471SAT1			EF1801	Chp EMI Filter		DTL1106		
IC 1231	IC		TC7SZ125FU			EF1802	Chp EMI Filter		DTL1106		D
IC 1251	IC		BA5985FM			EF1803	Chp EMI Filter		DTL1106		
IC 1501	IC		MN35104UB			EF1901	Chp EMI Filter		DTL1106		
IC 1570	IC		K4S283232E-TC75			EF1902	Chp EMI Filter		DTL1106		
IC 1601	IC		PD6516A			EF1903	Chp EMI Filter		DTL1106		
IC 1602	IC		TC7SH86FU			EF1904	Chp EMI Filter		DTL1106		
IC 1651	IC		M5M5V216ATP-70HI			EF1905	Chp EMI Filter		DTF1106		
IC 1652	IC		TC7SZ126FU			RESISTORS					
IC 1671	IC		TC74LCX16373AFT			R 1001			RS1/10S0R0J		
IC 1672	IC		TC7SZ08FU			R 1003			RS1/16SS1003D		
IC 1801	IC		SM8707LV			R 1004			RS1/10S0R0J		E
IC 1802	IC		TC7WH157FU			R 1005			RS1/16SS1501D		
IC 1851	IC		PCM1742KE			R 1006			RS1/16SS8202D		
IC 1852	IC		NJM2140R			R 1007			RS1/16SS1502D		
IC 1853	IC		NJM2100V			R 1008			RS1/16SS101J		
Q 1002	Transistor		DTC114EU			R 1010			RS1/16SS105J		
Q 1101	Transistor		2SB1260			R 1011			RS1/16SS105J		
Q 1102	Transistor		2SB1260			R 1013			RS1/16SS103J		
Q 1103	Transistor		DTC114EU			R 1014			RS1/16SS1203D		
Q 1104	Transistor		2SA1576A			R 1015			RS1/16SS2402D		
Q 1105	Transistor		2SC4081			R 1016			RS1/16SS0R0J		F
Q 1106	Transistor		2SC4081			R 1017			RS1/16SS0R0J		
Q 1107	Transistor		2SC4081			R 1018			RS1/16SS105J		
Q 1551	Transistor		2SA1576								
D 1001	Diode		1SR154-400								
D 1101	Diode		1SS355								

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

A	R 1021	RS1/16SS122J	R 1131	RS1/16S0R0J
	R 1051	RS1/16SS104J	R 1201	RS1/16SS181J
	R 1052	RS1/16SS104J	R 1202	RS1/16SS181J
	R 1053	RS1/16SS104J	R 1203	RS1/16SS513J
	R 1054	RS1/16SS104J	R 1204	RS1/16SS221J
	R 1055	RS1/16SS222J	R 1206	RS1/16SS513J
	R 1057	RS1/16SS104J	R 1207	RS1/16S0R0J
	R 1058	RS1/16SS0R0J	R 1208	RS1/16S0R0J
	R 1059	RS1/16SS104J	R 1211	RS1/16SS1R0J
	R 1060	RS1/16SS104J	R 1212	RS1/16SS1R0J
B	R 1061	RS1/16SS221J	R 1213	RS1/16SS1R0J
	R 1062	RS1/16SS104J	R 1214	RS1/16SS1R0J
	R 1063	RS1/16SS104J	R 1215	RS1/16SS1R0J
	R 1064	RS1/16SS104J	R 1216	RS1/16SS1R0J
	R 1065	RS1/16SS104J	R 1231	RS1/16SS822J
	R 1066	RS1/16SS104J	R 1232	RS1/16SS822J
	R 1067	RS1/16SS104J	R 1233	RS1/16SS822J
	R 1068	RS1/16SS221J	R 1234	RS1/16SS822J
	R 1069	RS1/16SS221J	R 1235	RS1/16SS563J
	R 1070	RS1/16SS221J	R 1236	RS1/16SS243J
C	R 1071	RS1/16SS221J	R 1237	RS1/16SS683J
	R 1072	RS1/16SS104J	R 1238	RS1/16SS243J
	R 1073	RS1/16SS104J	R 1240	RS1/16S471J
	R 1074	RS1/16SS104J	R 1241	RS1/16S391J
	R 1075	RS1/16SS472J	R 1246	RS1/16SS104J
	R 1076	RS1/16SS104J	R 1248	RS1/16SS0R0J
	R 1080	RS1/16SS0R0J	R 1251	RS1/16SS221J
	R 1081	RS1/16SS221J	R 1252	RS1/16SS221J
	R 1082	RS1/16SS473J	R 1253	RS1/16SS393J
	R 1083	RS1/16S153J	R 1254	RS1/16SS223J
	R 1084	RS1/16SS104J	R 1256	RS1/16SS102J
	R 1085	RS1/16S823J	R 1257	RS1/16SS0R0J
	R 1087	RS1/16S104J	R 1258	RS1/16SS393J
	R 1088	RS1/16SS104J	R 1259	RS1/16SS393J
	R 1089	RS1/16SS104J	R 1260	RS1/16SS393J
D	R 1090	RAB4CQ104J	R 1261	RS1/16SS393J
	R 1101	RS1/16S6R8J	R 1262	RS1/16SS221J
	R 1102	RS1/16SS3R9J	R 1263	RS1/16S0R0J
	R 1103	RS1/16SS3R9J	R 1269	RS1/16SS102J
	R 1104	RS1/16SS3R9J	R 1270	RS1/16SS102J
	R 1105	RS1/16SS3R9J	R 1501	RS1/16SS0R0J
	R 1106	RS1/16S6R8J	R 1502	RS1/16SS0R0J
	R 1107	RS1/16SS3R9J	R 1503	RAB4CQ101J
	R 1108	RS1/16SS3R9J	R 1504	RS1/16SS0R0J
	R 1109	RS1/16SS3R9J	R 1505	RS1/16SS0R0J
E	R 1110	RS1/16SS3R9J	R 1506	RAB4CQ101J
	R 1111	RS1/16SS272J	R 1507	RS1/16SS0R0J
	R 1112	RS1/16SS472J	R 1508	RAB4CQ101J
	R 1113	RS1/16SS102J	R 1509	RS1/16SS0R0J
	R 1114	RS1/16SS221J	R 1511	RAB4CQ101J
	R 1115	RS1/16SS221J	R 1512	RS1/16SS0R0J
	R 1116	RS1/16SS331J	R 1513	RS1/16SS473J
	R 1117	RS1/16SS221J	R 1514	RS1/16SS104J
	R 1118	RS1/16SS0R0J	R 1515	RS1/16SS222J
	R 1119	RS1/16SS0R0J	R 1518	RS1/16SS104J
F	R 1120	RS1/16SS0R0J	R 1519	RS1/16SS104J
	R 1121	RS1/16SS0R0J	R 1522	RS1/16SS103J
	R 1128	RS1/16S0R0J	R 1523	RS1/16SS104J
	R 1129	RS1/16S0R0J	R 1525	RS1/16SS102J
	R 1130	RS1/16S0R0J	R 1530	RS1/16SS104J

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 1531		RS1/16S221J	R 1703		RS1/16SS0R0J		
R 1532		RS1/16SS104J	R 1704		RS1/16SS105J		
R 1536		RS1/16SS104J	R 1705		RN1/16SE1002D		A
R 1537		RS1/16SS104J	R 1706		RS1/16SS222J		
R 1540		RS1/16SS221J	R 1708		RS1/16SS223J		
R 1541		RS1/16SS473J	R 1709		RS1/16S1502D		
R 1543		RS1/16SS104J	R 1710		RS1/16SS102J		
R 1544		RS1/16SS102J	R 1711		RS1/16SS683J		
R 1545		RS1/16SS102J	R 1712		RS1/16SS103J		
R 1546		RS1/16SS104J	R 1713		RS1/16SS103J		
R 1547		RS1/16SS330J	R 1714		RS1/16SS0R0J		
R 1548		RS1/16SS104J	R 1715		RS1/16SS0R0J		
R 1551	Inductor	CTF1387	R 1716		RS1/16SS0R0J		
R 1552		RS1/16S101J	R 1717		RS1/16SS0R0J		B
R 1555		RS1/16S101J	R 1718		RS1/16SS103J		
R 1556		RS1/16S101J	R 1719		RS1/16SS103J		
R 1558		RS1/16SS750J	R 1720		RS1/16SS103J		
R 1561		RS1/16SS153J	R 1721		RS1/16SS103J		
R 1562		RS1/16SS471J	R 1723		RN1/16SE3901D		
R 1563		RS1/16SS471J	R 1724		RS1/16SS0R0J		
R 1565		RS1/16S68R0D	R 1729		RAB4CQ220J		
R 1566		RS1/16S4R7J	R 1730		RAB4CQ220J		
R 1567		RS1/16SS273J	R 1801		RS1/16S0R0J		
R 1568		RS1/16SS183J	R 1802		RS1/16S151J		
R 1569		RS1/16SS153J	R 1803		RS1/16S151J		C
R 1571		RAB4CQ101J	R 1804		RS1/16S221J		
R 1572		RAB4CQ101J	R 1805		RS1/16S271J		
R 1573		RAB4CQ101J	R 1806		RS1/16SS104J		
R 1574		RAB4CQ101J	R 1807		RS1/16SS560J		
R 1575		RS1/16SS560J	R 1809		RS1/16SS0R0J		
R 1576		RS1/16SS560J	R 1821		RS1/16SS222J		
R 1577		RAB4CQ560J	R 1823		RS1/16SS101J		
R 1578		RAB4CQ560J	R 1851		RS1/16SS0R0J		
R 1579		RS1/16SS220J	R 1856		RS1/16SS102J		
R 1580		RAB4CQ560J	R 1857		RS1/16SS102J		
R 1581		RS1/16SS560J	R 1858		RS1/16SS222J		D
R 1582		RS1/16SS560J	R 1859		RS1/16SS222J		
R 1583		RS1/16SS560J	R 1860		RS1/16SS472J		
R 1584		RAB4CQ560J	R 1861		RS1/16SS472J		
R 1585		RS1/16SS560J	R 1862		RS1/16SS472J		
R 1586		RS1/16SS560J	R 1863		RS1/16SS472J		
R 1587		RAB4CQ101J	R 1864		RS1/16SS103J		
R 1588		RAB4CQ101J	R 1865		RS1/16SS103J		
R 1589		RAB4CQ101J	R 1866		RS1/16SS472J		
R 1590		RAB4CQ101J	R 1867		RS1/16SS472J		
R 1593		RS1/16SS104J	R 1868		RS1/16SS821J		
R 1594		RS1/16S0R0J	R 1869		RS1/16SS821J		E
R 1599		RS1/16S221J	R 1870		RS1/16SS104J		
R 1604		RS1/16SS0R0J	R 1871		RS1/16SS104J		
R 1608		RS1/16SS104J	R 1872		RS1/16SS0R0J		
R 1613		RS1/16SS0R0J	R 1873		RS1/16SS0R0J		
R 1652		RS1/16SS104J	R 1874		RS1/16SS0R0J		
R 1653		RS1/16SS510J	R 1876		RS1/16SS0R0J		
R 1671		RAB4CQ101J	R 1877		RS1/16SS0R0J		
R 1672		RAB4CQ101J	R 1885		RS1/16SS0R0J		
R 1673		RAB4CQ101J	R 1897		RS1/16SS0R0J		
R 1674		RAB4CQ101J	R 1899		RS1/16SS0R0J		F
R 1675		RS1/16SS331J	R 1901		RS1/16SS221J		
R 1701		RS1/16SS103J	R 1903		RS1/16SS221J		
R 1702		RS1/16SS103J	R 1908		RS1/16SS102J		

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

R 1913	RS1/16S0R0J
R 1922	RS1/16SS0R0J
R 1923	RS1/16SS221J
R 1925	RS1/16S0R0J
R 1927	RS1/16SS0R0J
R 1928	RS1/16SS221J
R 1954	RS1/16SS221J
R 1955	RS1/16SS221J
R 1961	RS1/16S0R0J

C 1257	CKSRYB104K25
C 1258	CCSSCH470J50
C 1259	CCSSCH5R0C50
C 1501	CSZSR470M10
C 1502	CSZSR101M6R3
C 1503	CSZSR101M6R3
C 1504	CKSSYB104K10
C 1505	CKSSYB104K10
C 1506	CKSSYB104K10
C 1507	CKSSYB104K10
C 1508	CKSSYB104K10

CAPACITORS

C 1001	CKSRYB105K10
C 1002	CKSRYB104K25
C 1003	CKSRYB104K25
C 1004	CKSRYB104K25
C 1005	CKSRYB105K10

C 1509	CKSSYB104K10
C 1510	CKSSYB104K10
C 1511	CKSSYB104K10
C 1512	CKSSYB104K10
C 1513	CKSSYB104K10

C 1006	CKSRYB104K25
C 1007 22μF	CCG1178
C 1008 22μF	CCG1178
C 1009	CCSSCH220J50
C 1010	CKSSYB102K16

C 1514	CKSSYB104K10
C 1515	CKSSYB104K10
C 1516	CKSSYB104K10
C 1517	CKSSYB104K10
C 1518	CKSSYB104K10

C 1012 22μF	CCG1178
C 1013 22μF	CCG1178
C 1016	CKSRYB104K25
C 1051	CKSYB106K6R3
C 1052	CKSSYB104K10

C 1519	CKSSYB104K10
C 1520	CKSSYB104K10
C 1521	CKSSYB104K10
C 1522	CKSSYB104K10
C 1523	CKSSYB104K10

C 1053	CKSSYB104K10
C 1054	CKSSYB103K16
C 1055	CKSSYB103K16
C 1058	CKSSYB471K50
C 1059	CKSSYB104K10

C 1524	CKSSYB104K10
C 1525	CKSSYB104K10
C 1526	CKSSYB104K10
C 1527	CKSSYB104K10
C 1528	CKSSYB104K10

C 1060	CKSRYB105K10
C 1101	CSZSR220M16
C 1102	CSZSR101M6R3
C 1103	CKSSYB104K10
C 1104	CKSSYB103K16

C 1529	CKSSYB104K10
C 1530	CKSSYB104K10
C 1531	CKSSYB471K50
C 1532	CKSSYB103K16
C 1533	CKSSYB103K16

C 1105	CSZSR101M6R3
C 1106	CKSSYB104K10
C 1107	CKSSYB103K16
C 1108	CKSRYB104K25
C 1109	CKSSYB473K10

C 1552	CKSSYB104K10
C 1553	CKSRYB104K25
C 1554	CKSSYB104K10
C 1555	CKSRYB105K10
C 1556	CSZSR470M10

C 1110	CKSSYB473K10
C 1111	CKSSYB103K16
C 1112	CKSRYB105K10
C 1113	CKSRYB105K10
C 1114	CKSSYB103K16

C 1557	CKSSYB104K10
C 1558	CSZS4R7M16
C 1559	CKSRYB105K10
C 1561	CKSSYB102K50
C 1570	CSZSR470M10

C 1115	CSZSR220M16
C 1201	CEVW101M16
C 1202	CKSRYB104K25
C 1203	CSZSR220M16
C 1204	CKSRYB104K25

C 1571	CKSSYB104K10
C 1572	CKSSYB104K10
C 1573	CKSSYB104K10
C 1574	CKSSYB104K10
C 1575	CKSSYB104K10

C 1205	CKSRYB104K25
C 1206	CKSRYB104K25
C 1207	CSZSR220M16
C 1231	CKSRYB104K25
C 1232	CKSSYB104K10

C 1576	CKSSYB104K10
C 1577	CKSSYB104K10
C 1578	CKSSYB104K10
C 1579	CKSSYB104K10
C 1580	CKSSYB104K10

C 1251	CKSRYB104K25
C 1254	CKSRYB103K50
C 1255	CKSRYB103K50
C 1256	CEVW101M16

C 1581	CKSSYB104K10
C 1582	CKSSYB104K10
C 1583	CSZSR470M10
C 1601	CSZSR470M10

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 1603		CKSSYB104K10		C 1865		CKSYB475K10	
C 1651		CSZSR470M10		C 1870		CKSSYB104K10	A
C 1653		CKSSYB104K10		C 1903		CKSRYB102K50	
C 1654		CKSRYB104K25		D Unit Number:CWX3154 Unit Name:Compound Unit(A)			
C 1655		CKSSYB104K10					
C 1671		CKSSYB104K10					
C 1672		CKSSYB104K10					
C 1673		CKSSYB104K10		Q 1299	Photo-taransistor	CPT231SCTD	
C 1674		CKSSYB104K10		S 1201	Spring Switch(12cm)	CSN1069	
C 1675		CKSRYB104K25		S 1202	Spring Switch(8cm)	CSN1069	
C 1676		CKSYB106K6R3		S 1203	Spring Switch(DISC SENS)	CSN1069	
C 1701		CKSRYB104K25		S 1204	Spring Switch(DISC SENS)	CSN1070	
C 1702		CKSRYB104K25		S 1205	Spring Switch(8cm)	CSN1070	B
C 1703		CKSSYB104K10		R 1298		RS1/16S0R0J	
C 1704		CKSSYB103K16		R 1299		RS1/16S0R0J	
C 1705		CKSSYB103K16		E Unit Number:CWX3156 Unit Name:Compound Unit(B)			
C 1706		CKSSYB104K10					
C 1707		CKSSYB104K10					
C 1708		CKSSYB103K16					
C 1709		CCSRCH221J50		S 1206	Switch(CLAMP)	CSN1051	
C 1710		CKSSYB152K50		J Unit Number:CZW3087 Unit Name:Main Unit			
C 1711		CKSRYB105K10					
C 1712		CKSRYB105K10					
C 1713		CKSRYB105K10					
C 1715		CKSSYB104K10		MISCELLANEOUS			
C 1716		CKSSYB104K10					
C 1717		CKSSYB104K10					
C 1718		CKSSYB104K10					
C 1719		CKSSYB562K25		IC 3801	IC	BA00AST	
C 1720		CCSSCH101J50		IC 3802	IC	BA6247FP	
C 1721		CCSSCH470J50		IC 3803	IC	TA78L05F	
C 1722		CKSSYB103K16		IC 3804	IC	TC7S14FU	
C 1723		CKSSYB104K10		IC 3805	Photo-interrupter	GP2L24B	
C 1724		CKSSYB104K10		Q 3801	Transistor	DTC124EU	D
C 1725		CKSSYB104K10		Q 3802	Transistor	2SA1037K	
C 1726		CCSSCH330J50		Q 3803	Transistor	DTC124EU	
C 1727		CKSSYB333K16		Q 3804	Transistor	UMD2N	
C 1728		CKSSYB104K10		D 3801	Diode	UDZS5R6(B)	
C 1733		CKSSYB103K16		D 3802	Diode	1SS355	
C 1801		CKSSYB104K10		L 3801	Inductor	LCTA150J2520	
C 1802		CKSSYB104K10		L 3802	Inductor	LCTA150J2520	
C 1804		CKSSYB104K10		RESISTORS			
C 1805		CCSSCH100D50					
C 1809		CCSSCJ3R0C50					
C 1810		CCSSCK2R0C50					
C 1811		CKSSYB104K10		R 3801		RS1/16S103J	E
C 1851		CKSSYB104K10		R 3802		RS1/16S222J	
C 1852		CKSSYB104K10		R 3803		RS1/16S471J	
C 1853		CKSYB106K6R3		R 3804		RS1/16S102J	
C 1854		CKSYB106K6R3		R 3805		RS1/16S102J	
C 1855		CKSRYB104K25		R 3806		RS1/16S102J	
C 1856		CKSRYB104K25		R 3807		RS1/16S102J	
C 1857		CCSRCH471J50		R 3808		RS1/16S103J	
C 1858		CCSRCH471J50		R 3809		RS1/16S222J	
C 1859		CCSRCH471J50		R 3810		RS1/16S222J	
C 1860		CCSRCH471J50		R 3811		RS1/16S102J	
C 1861		CKSQYB225K10		R 3812		RS1/16S102J	F
C 1862		CKSSYB471K50		R 3813		RS1/16S472J	
C 1863		CKSSYB471K50		R 3814		RS1/16S102J	
C 1864		CKSYB475K10		R 3815		RS1/16S0R0J	

Circuit Symbol and No.

Part No.

A

R 3816	RS1/16S0R0J
R 3817	RS1/16S0R0J
R 3818	RS1/16S473J
R 3819	RS1/16S0R0J
R 3821	RS1/16S473J
R 3822	RS1/16S512J
R 3823	RS1/16S0R0J

CAPACITORS

B

C 3801	CKSQYB105K16
C 3802	CKSQYB105K16
C 3803	CKSRYB104K16
C 3804	CKSRYB104K16
C 3805	CKSRYB104K16

C

C 3806	CKSRYB223K50
C 3807	CKSRYB223K50
C 3808	CEVW101M16
C 3809	CEVW101M16
C 3810	CKSRYB104K16

C

C 3811	CEVW100M16
C 3812	CKSRYB104K16
C 3813	CKSRYB102K50
C 3815	CKSQYB104K50
C 3819	CEVW101M16

K

Unit Number:CZW3088
Unit Name:SW Unit

D

S 3831	Spring Switch(ANGLE)	CSN1052
S 3832	Spring Switch(LIFT)	CSN1052

L

Unit Number:CZW3089
Unit Name:Volume Unit

D

VR3841	Volume (ANGLE SENSE)	CCW1025
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Miscellaneous Parts List

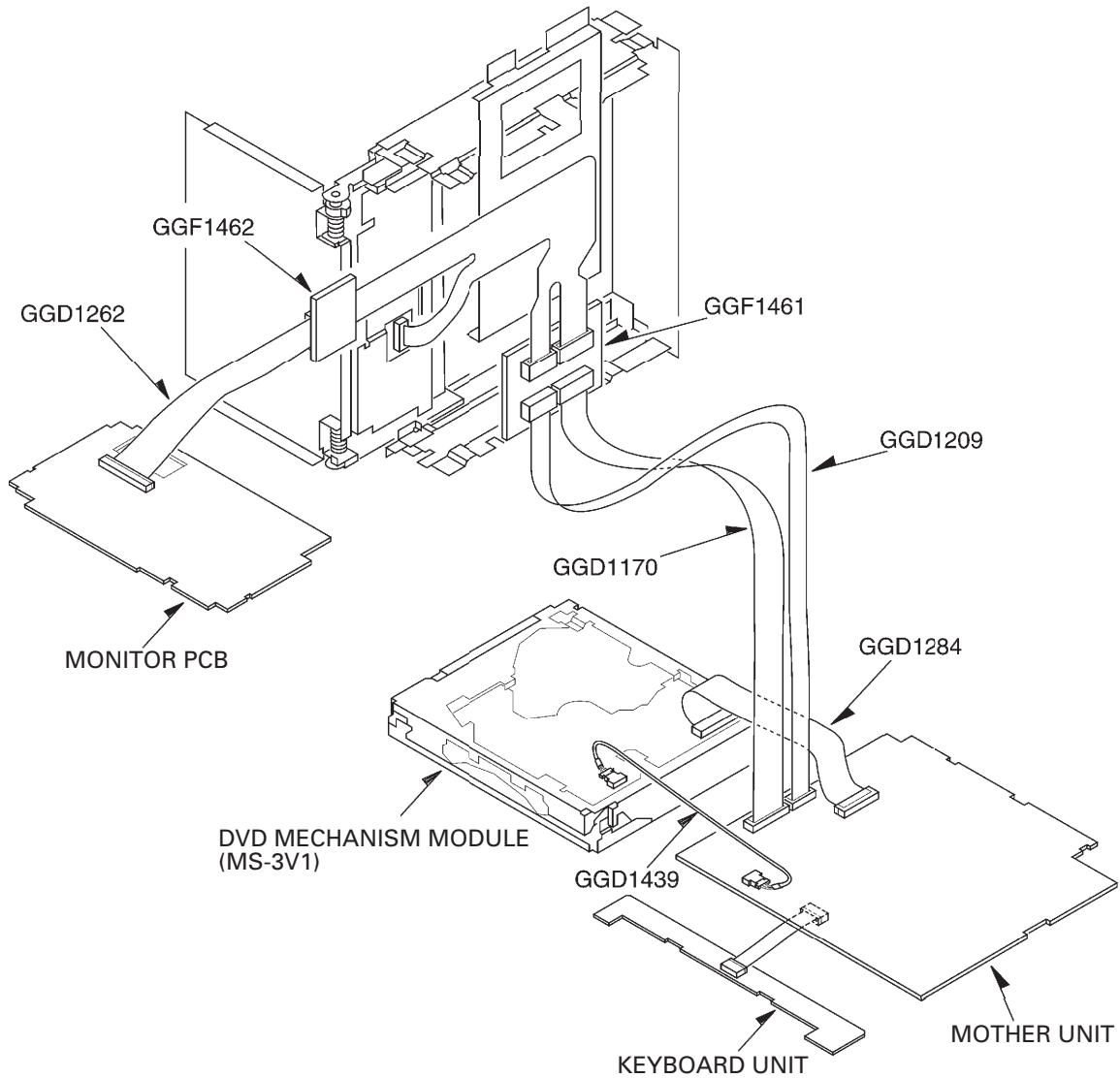
E

	Pickup Unit(Service)	CXX1770
M 1	Motor Unit(LOADING)	CXC4659
M 2	Motor Unit(CARRIAGE)	CXC4134
M 3	Motor(SPINdle)	CXM1272
M 771	Fan Motor(REAR)	CXM1262
M 781	Fan Motor(CENTER)	CXM1276
M 3001	Motor Unit(POSITION)	CXB9515
M 3002	Motor Unit(ANGLE)	CXB9516

F

6. ADJUSTMENT

6.1 JIG CONNECTION DIAGRAM



● Jigs List

Name	Jig No.	Remarks
33 pin extension cable	GGD1262	Connecting the monitor PCB to relay PCB(GGF1462)
Relay PCB	GGF1462	Connecting the monitor PCB extension cable to flexible PCB
Relay PCB	GGF1461	Connecting the monitor PCB extension cable to flexible PCB
20 pin extension cable	GGD1209	Connecting the mother unit to relay PCB(GGF1461)
40 pin extension cable	GGD1170	Connecting the mother unit to relay PCB(GGF1461)
40 pin extension cable	GGD1284	Connecting the mother unit to DVD mechanism module
2 pin extension cable	GGD1439	Connecting the mother unit to DVD mechanism module

6.2 DVD ADJUSTMENT



1) Precautions

This product uses 5V and 3.3V as standard voltages. The electrical potential that is the reference for signals, is not GND, but VREF (approximately 2.2V) and VHALF (approximately 1.65V).

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

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

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

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

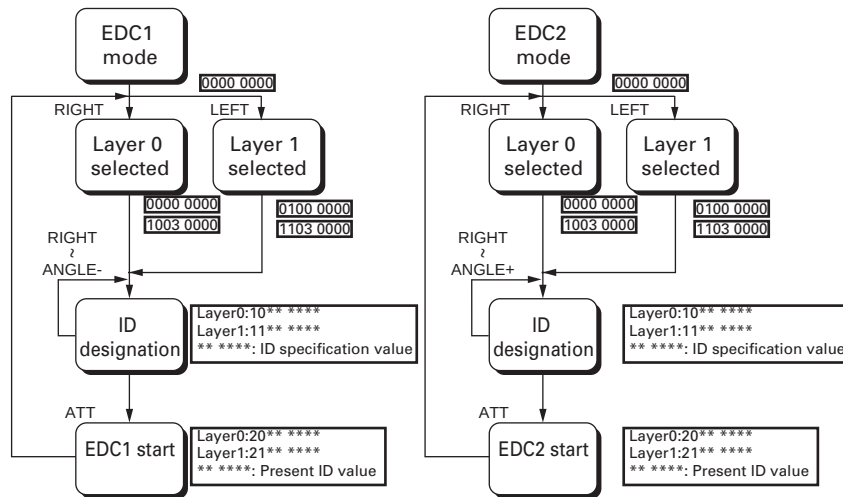
Attention)

- Test mode starting procedure
Reset start while pressing the BAND and ANGLE- keys together.
- Test mode stopping procedure
ACC and Backup OFF.

A



A



B

F-close and F-search cannot be executed, unless LD-ON is set.

[If F-close isn't executed within 9 seconds after LD-ON, it switches to LD-OFF automatically.

And even if F-search is executed within 9 seconds after LD-ON, it also switches to LD-OFF.]

Please carry out F-close after carrying out power-off at once and carrying out power-on again, when carrying out F-close after performing F-search.

The track number designation is selected from the track numbers already prepared for selection.

Switching to cyclic operation is made at step ANGLE-, and the decision is finalized (entered) in step ATT.

C

For CD: Tracks 1, 4, 10, 11 and 32.

For DVD: Tracks 1, 4, 10, 11, 32, 64 and 100.

Method for designating an ID address:

- A number of digits are determined through commands RIGHT and LEFT. Numerical UP/DOWN operations are performed through commands ANGLE- and ANGLE+. The decision is finalized (entered) with command ATT.

Display

Error Code List

D

Error status from DVD microcomputer	Contents	Display
0X50	Mecha. error	No display
0X40	No disc	No display
0X30	The temperature is abnormal	Thermal Protection in Motion
0X20	Read error	Error-02-XX
0XE2	Non-playable disc	NON-PLAYABLE DISC
0X90	Different region disc	DIFFERENT REGION DISC
0XFF	Undefined error	Error-FF

Error code of read error(Part of XX)

E

Error Code	Contents	Display
0X99	Data cannot read	Please confirm the disc
0X80	The address cannot be found	Please confirm the disc
0X90	Focus error	Please confirm the disc
0X91	Spindle lock NG	DVD is stopping because mechanism detected abnormality
0X92	Carriage home NG	DVD is stopping because mechanism detected abnormality
0X93	FOK error	Please confirm the disc
0X94	ID/Subcode cannot be read	Please confirm the disc
0X95	High spindle rotation	DVD is stopping because mechanism detected abnormality
0X96	Row spindle rotation	DVD is stopping because mechanism detected abnormality
0X98	TOC cannot be found	Please confirm the disc
0X9A	AV chip error	DVD is stopping because mechanism detected abnormality
0X9B	RecoveryNG(BE)	DVD is stopping because mechanism detected abnormality
0X9C	Play state error	
0X9D	Disc data error	
0X9E	Surface error (Disc distinction is improper)	

F

● Skew Adjustment

The skew adjustment is to adjust the pickup and the flatness of the disc so that the beam from the pickup continues to go to the disc vertically. In MS3 mecha, the pickup shaft on the inner track near the carriage motor is fixed, so the fixed position is regarded as the standard and the flatness is adjusted. Observing the RF waveform on the oscilloscope, repeat the adjustment on the inner track position and the outer track position, and narrow the adjusted value.

If any of the following replacements have been performed on the system, adjustments for pick up, must be conducted:

1. Pick up unit replacement
2. Spindle motor replacement
3. Carriage chassis replacement
4. Pick up unit main shaft replacement
5. Pick up unit sub-shaft replacement

Measurement device and tools : Oscilloscope

Allen key wrench

40-pin flexible extension (GGD1284)

2-pin extension cable(GGD1439)

Screw lock (GYL1001)

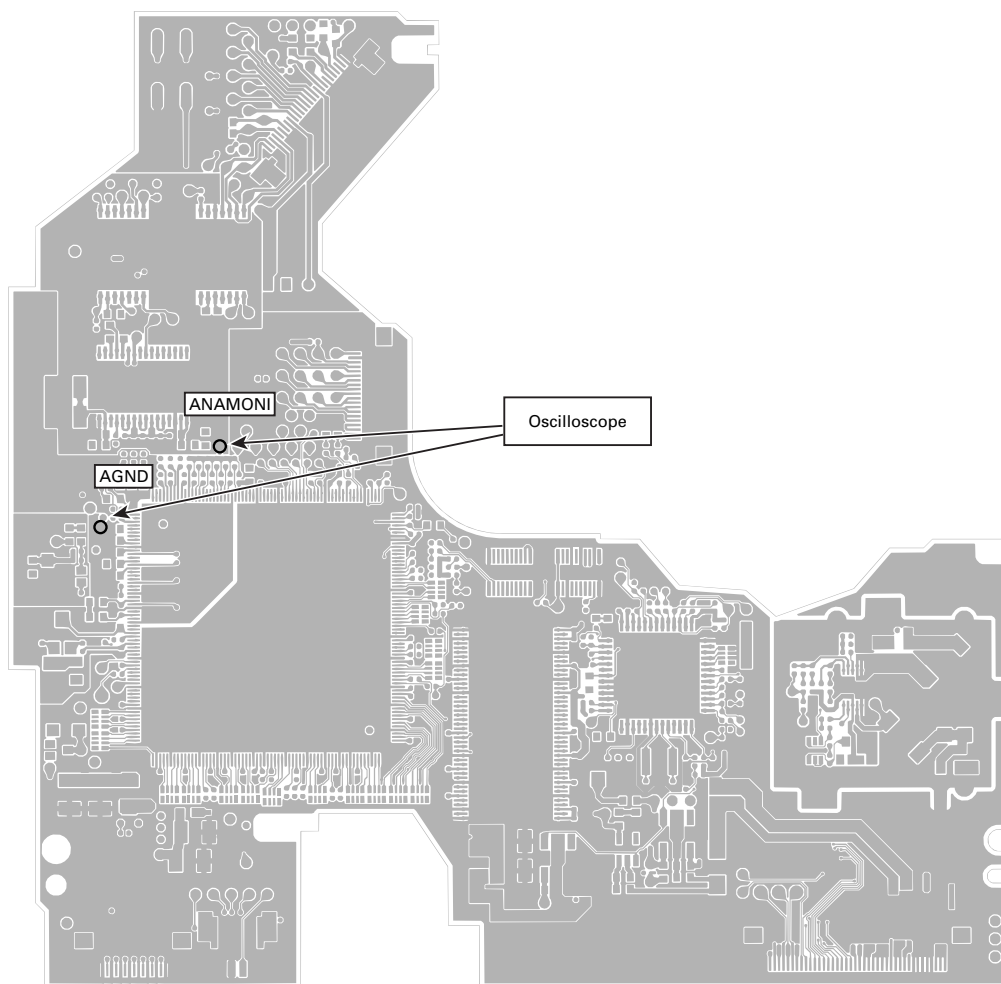
Disk used

Measurement reference : GGV1018

Measurement point : AGND3

Connection diagram : ANAMONI

DVD core unit



Symptoms in case of poor adjustment: Error efficiency deteriorated: 10^{-3} (Optimum value: 10^{-4} or lower)

High jitter of the RF signal RF waveform deformed

Unstable operation in tracking closing and servo control

Caution: Avoid exposing your eyes to laser beams for a long time.

Preparation for adjustment: Clean both ends of the shafts.

Use brand new skew screws supplied with the service kit GXX1242.

Procedures:

1. Place the DVD mechanism module upside down.

To avoid the disc from being robbed when it is turned upside down, first put a coin of about 1.5 mm on the table, then turn the disc upside down and set it so that the ① in the figure comes to the point immediately above the coin.

2. After replacing the pickup (by referring to the procedures of "Removing the Pickup."), roughly adjust the three skew screws through visual check so that the pickup is mounted in parallel to the CRG chassis around the inner and outer tracks.

3. Connect an oscilloscope as shown in the connecting diagram.

4. Turn on the power of the product. Load the test disc (GGV1018).

5. In the front-end test mode, set the disc type to DVD layer 1. Then, turn on the power. Move the pickup toward the inner tracks.

6. Turn on the laser diodes.

7. With the focus servo closed, complete all automatic adjustments. Close the tracking servo, and then complete all automatic adjustments.

8 Follow the next procedures, from 8-1 to 8-5, and adjust the (three) skew screws.

8-1 Move the pickup toward the inner track and turn the skew adjustment screw C so that the RF level of oscilloscope becomes the maximum.

(Tangential adjustment at the inner track position: Adjust the flatness of the disc at the inner track position with the adjustment screw C)

8-2 Move the pickup toward the outer track and turn the skew adjustment screw B so that the RF level becomes the maximum.

(Tangential adjustment at the outer track position: Adjust the flatness of the disc at the outer track position with the adjustment screw B)

8-3 Leave the pickup at the outer track position and turn the skew adjustment screws A and B in the same direction alternately one quarter at a time (A•B•A•B ...) so that the RF level becomes the maximum.

(Radial adjustment at the outer track position: Keeping the flatness at the outer track position, adjust the flatness of the whole disk with the adjustment screws A and B)

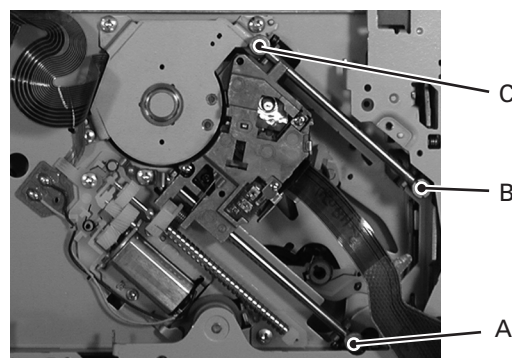
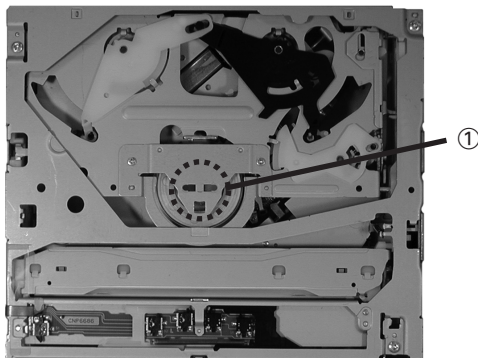
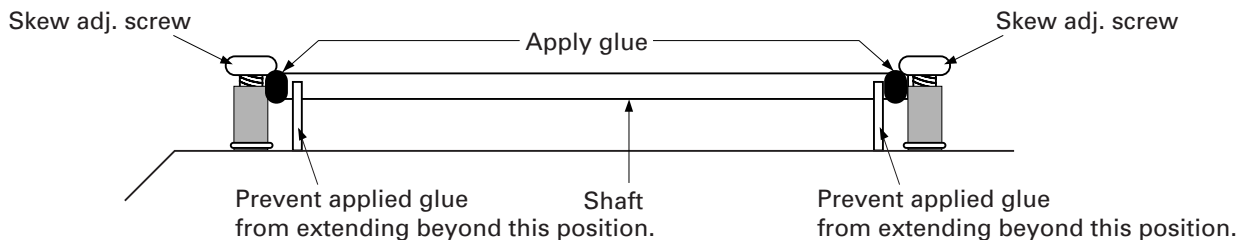
8-4 Move the pickup toward the inner track and turn the skew adjustment screw C so that the RF level becomes the maximum.

(Tangential adjustment at the inner track position: Adjust the flatness of the disc at the inner track position with the adjustment screw C)

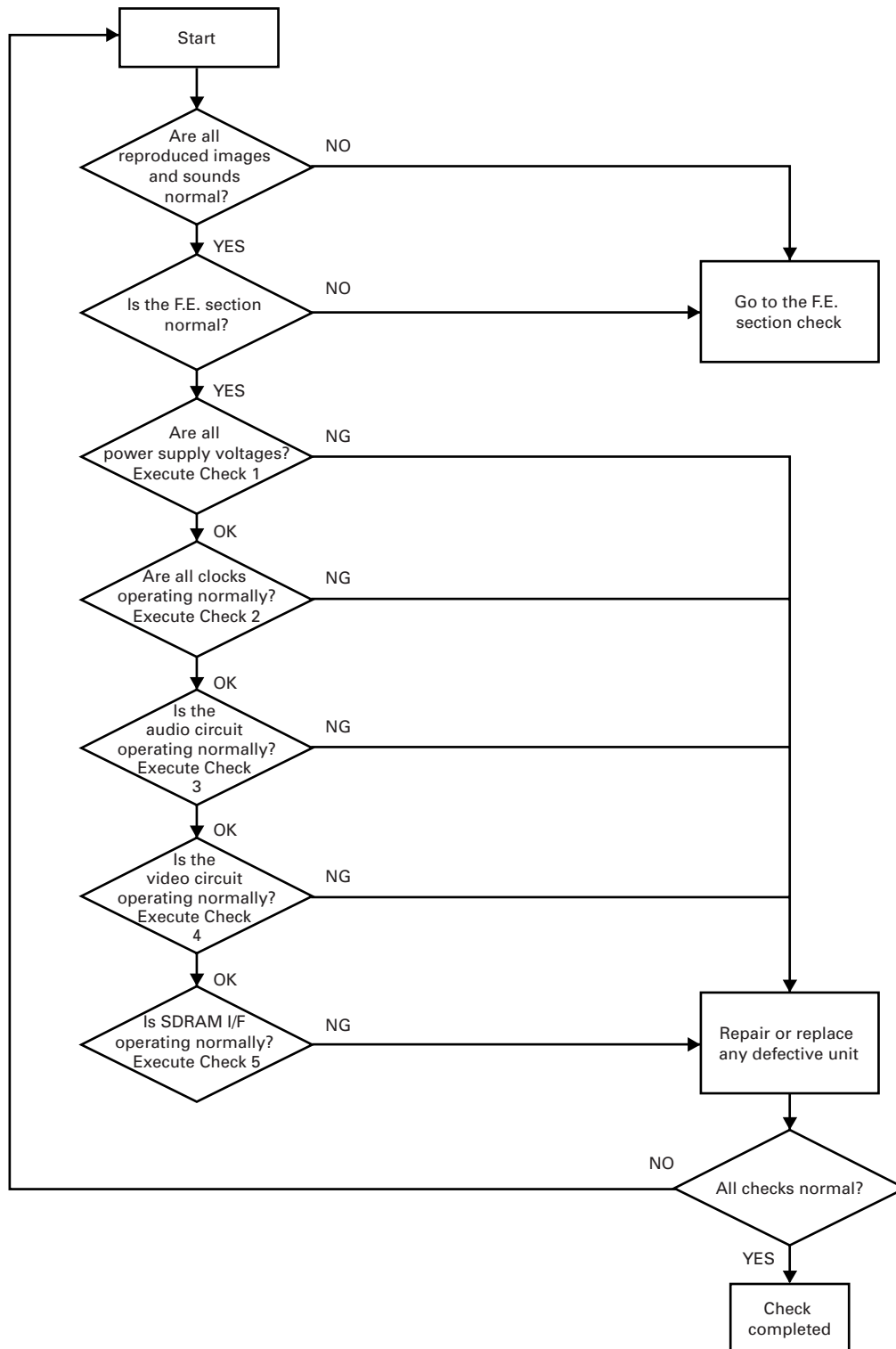
8-5 Repeat the steps from 8-2 to 8-4 three times, and adjust at the position where the RF level becomes the maximum.

9. Turn off the power in the test mode. After confirming that the disc has stopped, eject the disc.

10. Adjust with a screw rock the shaft and skew adjustment screw to the same state as initial one.



Back end section check flow chart



Check 1 : Are all power supply voltages?

Reproduce DVD-REF-A1 Title 1.

Verify the voltage of the sensing pin.

No.	Verification location	Rated value	Unit
1	VD8_1/2 - PGND_1/2	8.0 ± 0.4	V
2	VDD33 - DGND1/2/3	3.3 ± 0.15	V
3	SRVDD - DGND1/2/3	3.3 ± 0.15	V
4	VCC5_1 - AGND1	5.0 ± 0.1	V
5	AVCC5_1 - AGND1	5.0 ± 0.1	V
6	VCC33_1/2 - DGND1/2/3	3.3 ± 0.15	V
7	VCC33_3/4/5 - DGND1/2/3	3.3 ± 0.3	V
8	VCC15_1/2 - DGND1/2/3	1.5 ± 0.1	V

Check 2 : Are all clock operating normally?

Reproduce DVD-REF-A1 Title 1

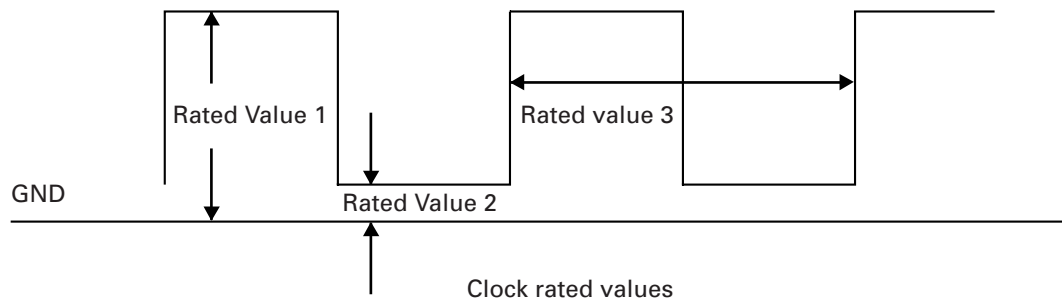
Check Circuit Diagram ①.

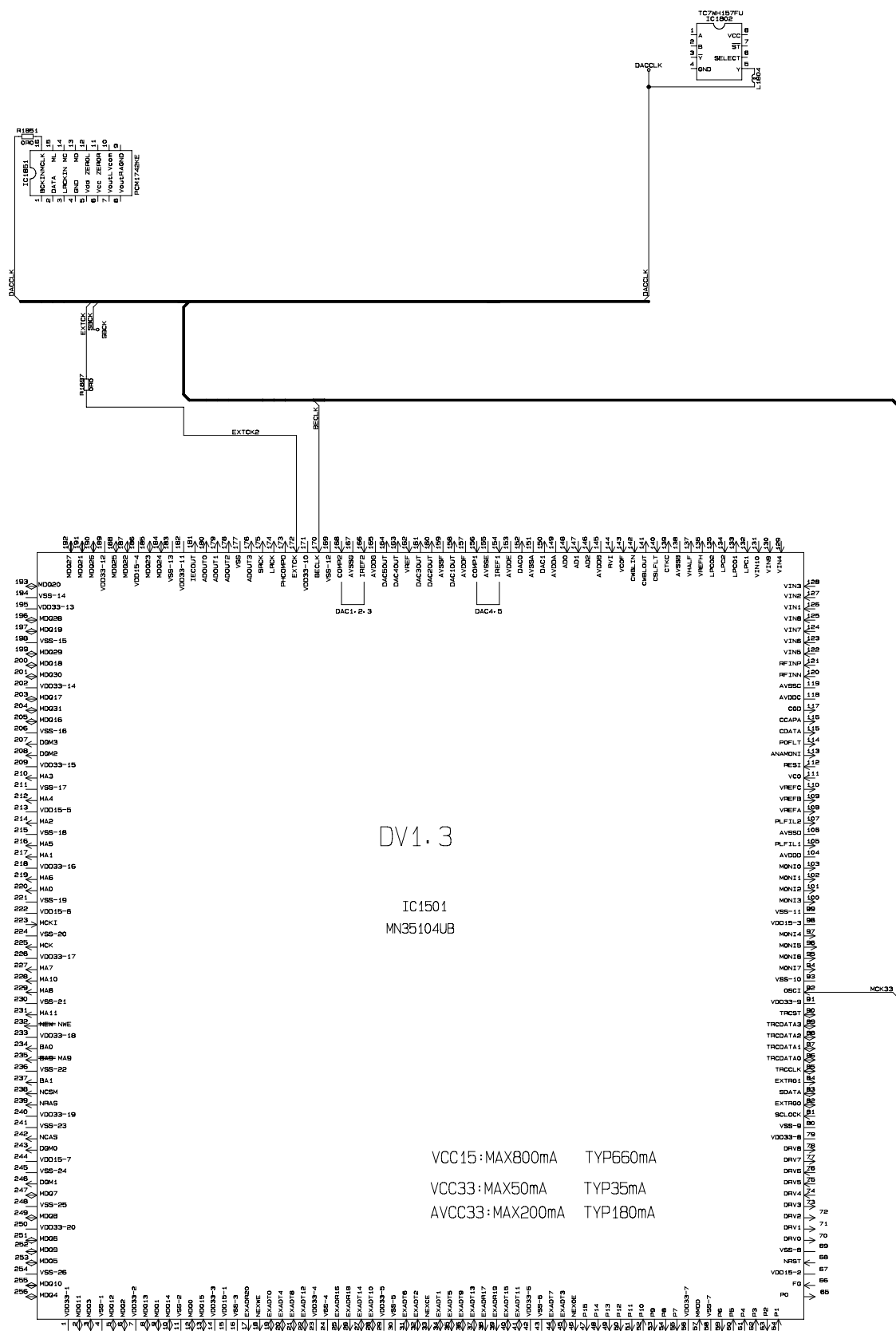
Checks are to be conducted with a GND reference.

If locations listed under "verification location 2", can be verified, there will be no need to perform verifications for the locations listed under "verification location 1."

If the result is not satisfactory, check to see if there are any problems with the resin flux cored solder and other defects in the applicable line, vicinity of IC 1802 (Circuit Diagram ①) and peripheral components.

No.	Verification location 1 (Sensing pin)	Verification location 2	Media	Rated value 1	Rated value 2	Rated value 3
1	BECLK	IC1501 170pin	ALL	2.3V ~ VCC33	GND ~ 0.8V	27MHz $\pm$ 50ppm
2	EXTCK	IC1501 172pin	DVD	2.3V ~ VCC33	GND ~ 0.8V	36.8640MHz $\pm$ 300ppm
3	EXTCK	IC1501 172pin	CD	2.3V ~ VCC33	GND ~ 0.8V	33.8688MHz $\pm$ 300ppm
4	MCK33	IC1501 92pin	ALL	2.2V ~ VCC33	GND ~ 0.8V	33.898MHz $\pm$ 300ppm
5	DACCLK	IC1851 16pin	DVD	2.0V ~ VCC33	GND ~ 0.8V	33.8688MHz $\pm$ 300ppm
6	DACCLK	IC1881 3pin	DVD	2.3V ~ VCC33	GND ~ 0.99V	33.8689MHz $\pm$ 300ppm





Circuit Diagram ①

Check 3 : Is the audio circuit operating normally?

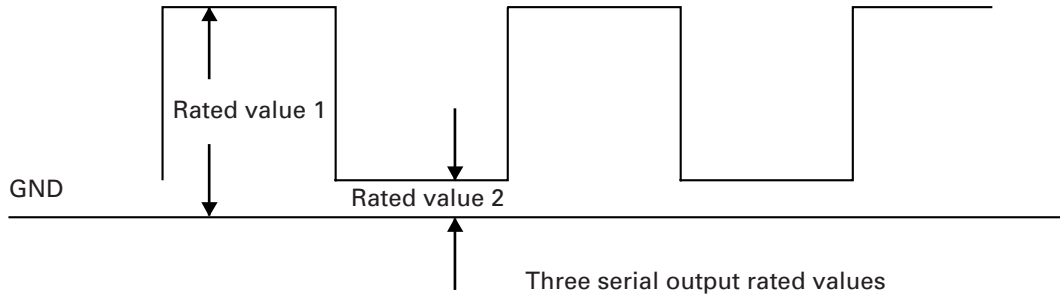
Reproduce DVD-REF-A1 Title 2 Chapter (48k/16-bit 1 kHz/0dB).

Checks are to be conducted using GND_{DAU1} (sensing pins) as a reference.

If the locations, listed under "verification location 2", can be verified, there is no need to conduct verifications for the locations listed under "verification location 1."

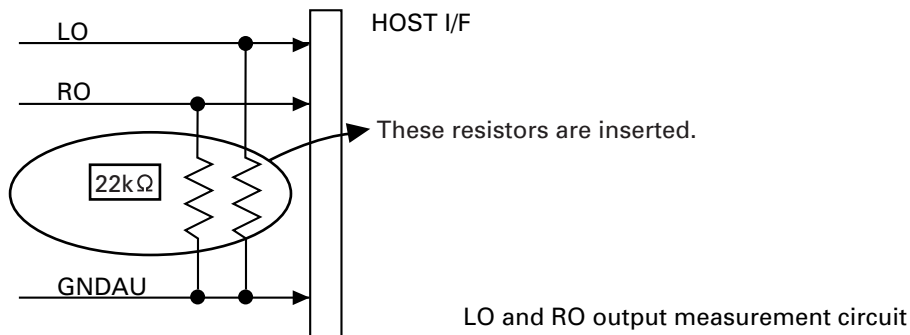
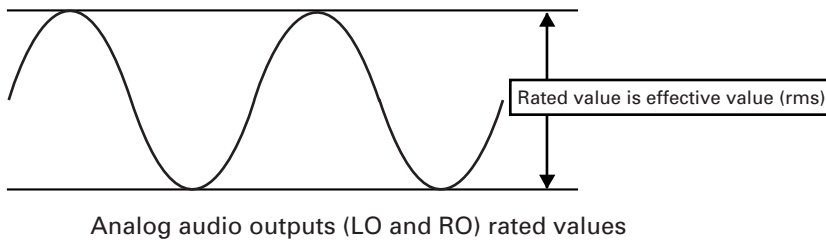
If the result is not satisfactory, check to see if there are any problems with resin flux cored solder and other defects in the applicable line, vicinity of major parts stated in the above diagram (Circuit Diagram②) and peripheral components.

No.	Verification location 1 (Sensing pin)	Verification location 2	Rated value 1	Rated value 2	Reference waveform
1	AOUT0	IC1851 2pin	2.0V and over	0.8V and lower	Waveform 1
2	SRCK	IC1851 1pin	2.0V and over	0.8V and lower	Waveform 1
3	LRCK	IC1851 3pin	2.0V and over	0.8V and lower	Waveform 1



Checks are conducted with the measurement circuit below.

No.	Verification location 1 (Sensing pin)	Verification location 2	Rated value (rms)	Reference waveform
4	LO	CN1901 37pin	$1100 \pm 150\text{mV}$	Waveform 2
5	RO	CN1901 35pin	$1100 \pm 150\text{mV}$	Waveform 2



No.	Verification location 1 (Sensing pin)	Verification location 2	Rated value 1	Rated value 2	Reference waveform
6	IEC958	CN1551 1pin	VCC33V-0.6V and over	0.4V and lower	Waveform 3



Check 4 : Is the video circuit operated normally?

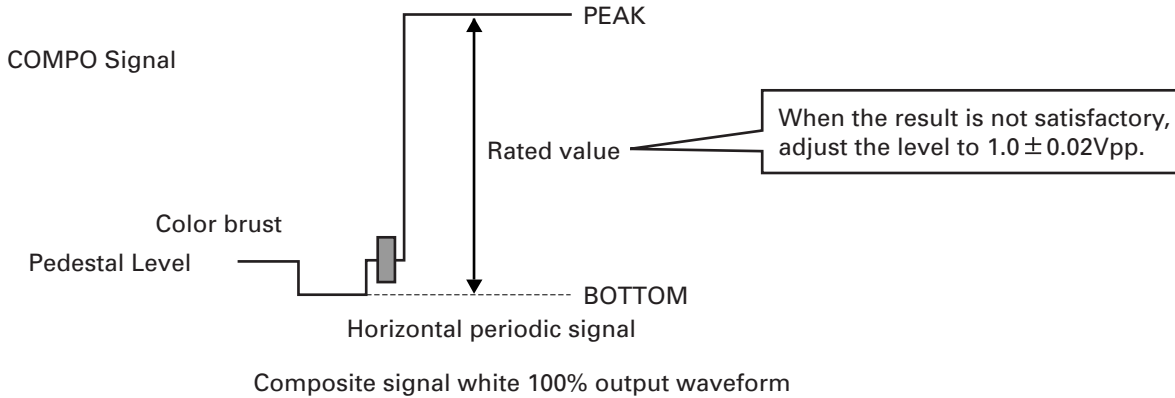
Reproduce DVD-REF-A1 Title 2 Chapters (White 1000IRE)

Monitor the output with the oscilloscope, by setting the COMPO signal to a GND reference.

Set the Trigger mode to the TV trigger, and the Trigger line to line-150.

No.	Verification location 1 (Sensing pin)	Rated value	Reference waveform
1	COMPO	$1.0 \pm 0.02V_{pp}$	Waveform 4

If the result is not satisfactory, check to see if there are any problems with resin flux cored solder and other defects in the applicable line, vicinity of major parts stated in the above diagram (Circuit Diagram ③) and peripheral components.



< Method of Readjusting Video Levels >

If the video composite output is not within the range of rated value, the video level is readjusted in the following method.

Turn the video level adjustment volume (VR1551) to adjust its level to $1.0 \pm 0.02V_{pp}$.

Check 5 : Is SDRAM I/F operated normally?

Reproduce DVD-REF-A1 Title 1.

Check Circuit Diagram ③

Common to all DVD-V adapted modules

Check the conductivity of both the "Verification location 1" and the "Verification location 2."

If the result is not satisfactory, check to see if there are any problems with the resin flux cored solder, parts and components, in areas where a problem occurs, for the overall sequence of "output" "input" of the checked location.

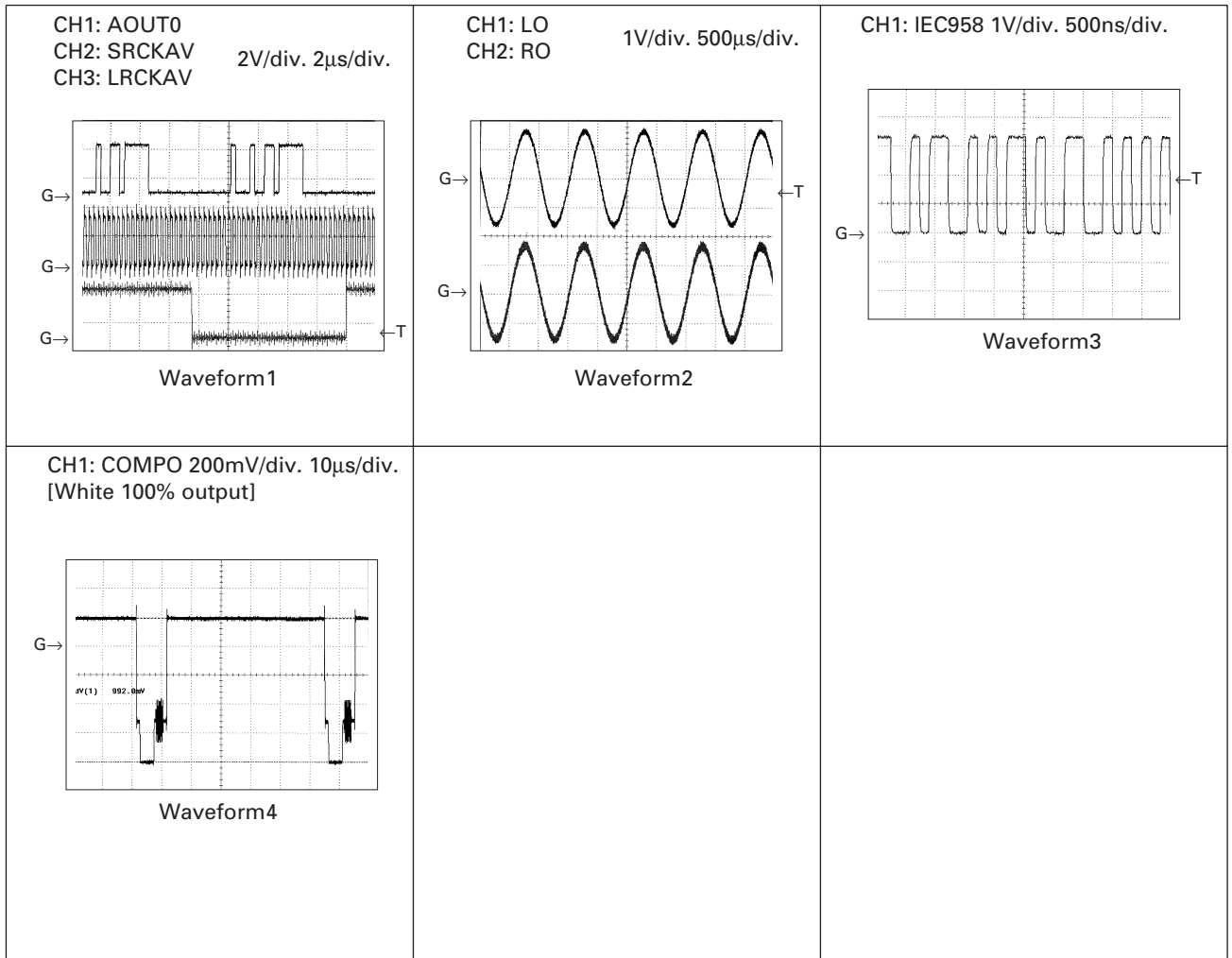
No.	Signal name	Verification location 1	Verification location 2	Rated value
1	MA0	IC1570 25pin	IC1501 220pin	$56 \Omega \pm 5\%$
2	MA1	IC1570 26pin	IC1501 217pin	$56 \Omega \pm 5\%$
3	MA2	IC1570 27pin	IC1501 214pin	$56 \Omega \pm 5\%$
4	MA3	IC1570 60pin	IC1501 210pin	$56 \Omega \pm 5\%$
5	MA4	IC1570 61pin	IC1501 212pin	$56 \Omega \pm 5\%$
6	MA5	IC1570 62pin	IC1501 216pin	$56 \Omega \pm 5\%$
7	MA6	IC1570 63pin	IC1501 219pin	$56 \Omega \pm 5\%$
8	MA7	IC1570 64pin	IC1501 227pin	$56 \Omega \pm 5\%$
9	MA8	IC1570 65pin	IC1501 229pin	$56 \Omega \pm 5\%$
10	MA9	IC1570 66pin	IC1501 235pin	$56 \Omega \pm 5\%$
11	MA10	IC1570 24pin	IC1501 228pin	$56 \Omega \pm 5\%$
12	MA11	IC1570 21pin	IC1501 231pin	$56 \Omega \pm 5\%$

No.	Signal name	Verification location 1	Verification location 2	Rated value
13	MDQ0	IC1570 2pin	IC1501 12pin	100Ω ± 5%
14	MDQ1	IC1570 4pin	IC1501 9pin	100Ω ± 5%
15	MDQ2	IC1570 5pin	IC1501 6pin	100Ω ± 5%
16	MDQ3	IC1570 7pin	IC1501 3pin	100Ω ± 5%
17	MDQ4	IC1570 8pin	IC1501 256pin	100Ω ± 5%
18	MDQ5	IC1570 10pin	IC1501 253pin	100Ω ± 5%
19	MDQ6	IC1570 11pin	IC1501 251pin	100Ω ± 5%
20	MDQ7	IC1570 13pin	IC1501 247pin	100Ω ± 5%
21	MDQ8	IC1570 74pin	IC1501 249pin	100Ω ± 5%
22	MDQ9	IC1570 76pin	IC1501 252pin	100Ω ± 5%
23	MDQ10	IC1570 77pin	IC1501 255pin	100Ω ± 5%
24	MDQ11	IC1570 79pin	IC1501 2pin	100Ω ± 5%
25	MDQ12	IC1570 80pin	IC1501 5pin	100Ω ± 5%
26	MDQ13	IC1570 82pin	IC1501 8pin	100Ω ± 5%
27	MDQ14	IC1570 83pin	IC1501 10pin	100Ω ± 5%
28	MDQ15	IC1570 85pin	IC1501 13pin	100Ω ± 5%
29	MDQ16	IC1570 31pin	IC1501 205pin	100Ω ± 5%
30	MDQ17	IC1570 33pin	IC1501 203pin	100Ω ± 5%
31	MDQ18	IC1570 34pin	IC1501 200pin	100Ω ± 5%
32	MDQ19	IC1570 36pin	IC1501 197pin	100Ω ± 5%
33	MDQ20	IC1570 37pin	IC1501 193pin	100Ω ± 5%
34	MDQ21	IC1570 39pin	IC1501 191pin	100Ω ± 5%
35	MDQ22	IC1570 40pin	IC1501 187pin	100Ω ± 5%
36	MDQ23	IC1570 42pin	IC1501 185pin	100Ω ± 5%
37	MDQ24	IC1570 45pin	IC1501 184pin	100Ω ± 5%
38	MDQ25	IC1570 47pin	IC1501 188pin	100Ω ± 5%
39	MDQ26	IC1570 48pin	IC1501 190pin	100Ω ± 5%
40	MDQ27	IC1570 50pin	IC1501 192pin	100Ω ± 5%
41	MDQ28	IC1570 51pin	IC1501 196pin	100Ω ± 5%
42	MDQ29	IC1570 53pin	IC1501 199pin	100Ω ± 5%
43	MDQ30	IC1570 54pin	IC1501 201pin	100Ω ± 5%
44	MDQ31	IC1570 56pin	IC1501 204pin	56 Ω ± 5%
45	MCK	IC1570 68pin	IC1501 225pin	22 Ω ± 5%
46	XWE	IC1570 17pin	IC1501 232pin	56 Ω ± 5%
47	XCAS	IC1570 18pin	IC1501 242pin	56 Ω ± 5%
48	XRAS	IC1570 19pin	IC1501 239pin	56 Ω ± 5%
49	XCSM	IC1570 20pin	IC1501 238pin	56 Ω ± 5%
50	DQM0	IC1570 16pin	IC1501 243pin	56 Ω ± 5%
51	DQM1	IC1570 71pin	IC1501 246pin	56 Ω ± 5%
52	DQM2	IC1570 28pin	IC1501 208pin	56 Ω ± 5%
53	DQM3	IC1570 59pin	IC1501 207pin	56 Ω ± 5%
54	BA0	IC1570 22pin	IC1501 234pin	56 Ω ± 5%
55	BA1	IC1570 23pin	IC1501 237pin	56 Ω ± 5%

F



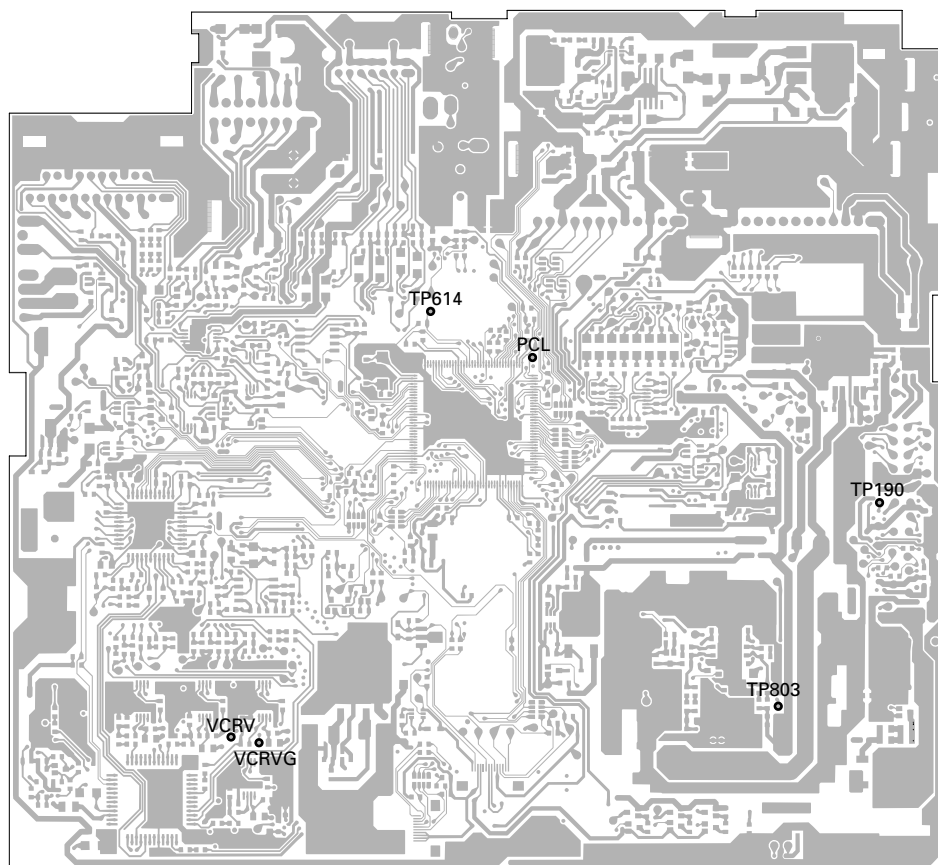
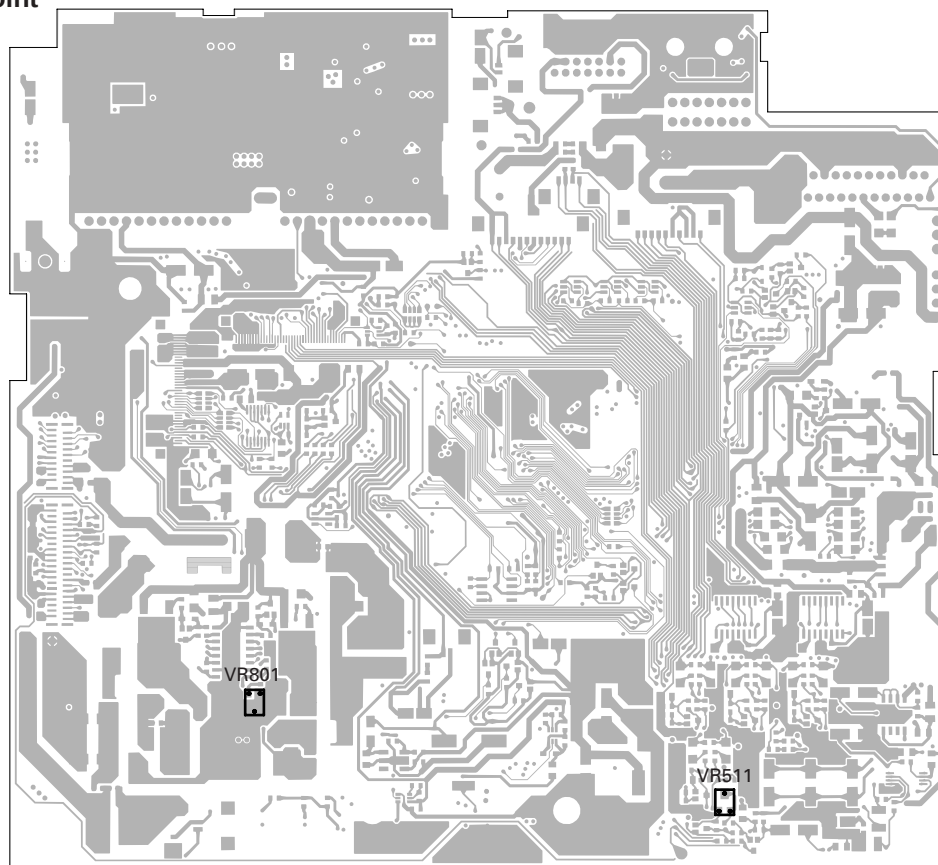
Note: Reference voltage VHALF : 1.65V



6.3 MOTHER UNIT ADJUSTMENT



● Adjustment Point



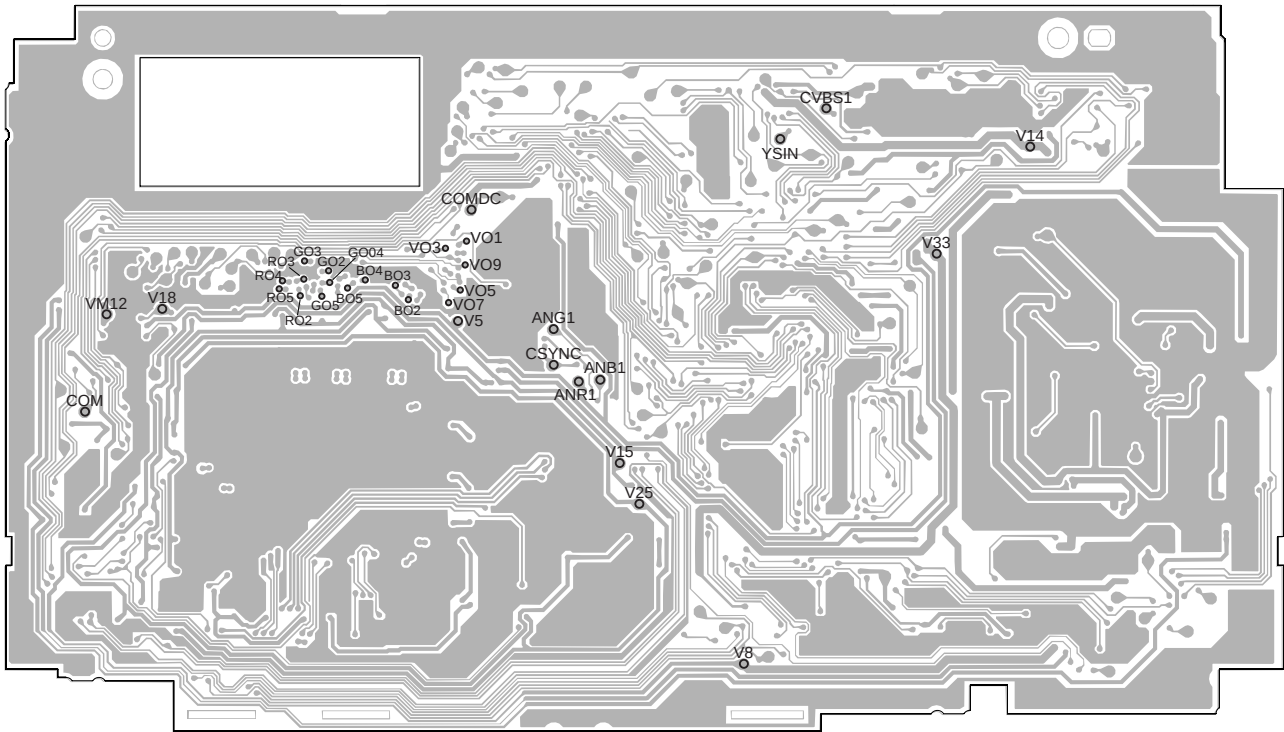
Step	Mother PCB adjustment	Mode	Input signal (input test pin, specs, other conditions)	Output signal (measuring point, waveform)	Measuring instruments	Specs	Adjusting point
1	Main video level	AV	Input test pin: VCRV...100 IRE (white 100%), 1.0Vp-p, (input via 75ohms) VCRVG... (GND VIDEO GND)	Measuring point: TP190 	Oscilloscope	1.4V ± 0.05Vp-p Measure between the sync tip and 100 IRE (top wave). Symptoms with poor adjustment. Over level : Luminance is too high. Under level : Luminance is too low.	VR511
2	Clock frequency Check		IC601 pin56(TP614) to 5V	IC601 pin36(PCL)	Frequency Counter	18.874368MHz±754Hz	
3	DC-DC converter frequency Adjustment		Playback the DVD	Test point TP803	Frequency Counter	370kHz±5Hz	VR801

6.4 MONITOR PCB ADJUSTMENT

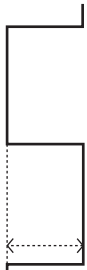
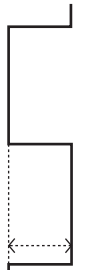
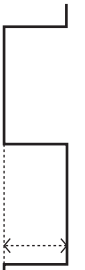


● Adjustment Point

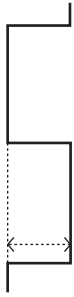
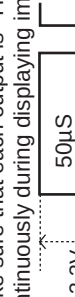
SIDE B



NOTE : When shutting off the power supply of TC90A64AFG, be careful not to energize each IC terminal. However, IIC lines (SDA and SCL) is not included in this case and it is possible to energize them with up to 5V.

No.	Adjustment item	Input signal	Measurement point	Adjustment point	Adjustment	Note
1	Check 3.3V power supply voltage	TP:14.4V to14V	C210 hot side (TP:V33)	—	$V33 = 3.3 \pm 0.25V$	
2	Check 2.5V power supply voltage	TP:14.4V to14V	IC4182 1-pin (TP:V25)	—	$V25 = 2.5 \pm 0.15V$	
3	Check 1.5V power supply voltage	TP:14.4V to14V	IC4183 1-pin (TP:V15)	—	$V15 = 1.5 \pm 0.08V$	
4	Check 5V power supply voltage	TP:14.4V to14V	C4234 hot side (TP:V5)	—	$V5 = 4.9 \pm 0.3 V$	
5	Check 8V power supply voltage	TP:14.4V to14V	C4198 hot side (TP:V8)	—	$V8 = 8.0 \pm 0.5 V$	
6	Check 18.5V power supply voltage	TP:14.4V to14V	C4181 hot side (TP:V18)	—	$V18 = 18.5 \pm 0.5 V$	
7	Check -12V power supply voltage	TP:14.4V to14V	C4207 hot side (TP:VM12)	—	$VM12 = -12.0 \pm 0.6 V$	
8	Vcom amplifier output amplitude check	No definition	CN4007 1-pin (TP:COM)	—	$4.70 \pm 0.10 V$ 	Connect LCD panel for measurement
9	Tone voltage amplitude check V1	No definition	CN4007 57-pin (TP:VO1)	—	$4.20 \pm 0.30 V$ 	Connect LCD panel for measurement
10	Tone voltage amplitude check V3	No definition	CN4007 55-pin (TP:VO3)	—	$1.80 \pm 0.10 V$ 	Connect LCD panel for measurement

NOTE : When shutting off the power supply of TC90A64AFG, be careful not to energize each IC terminal. However, IIC lines (SDA and SCL) is not included in this case and it is possible to energize them with up to 5V.

No.	Adjustment item	Input signal	Measurement point	Adjustment point	Adjustment	Note
11	Tone voltage amplitude adjustment V5	No definition	CN4007 53-pin (TP:VO5)	—	0.35 ± 0.10 V 	Connect LCD panel for measurement
12	Tone voltage amplitude adjustment V7	No definition	CN4007 51-pin (TP:VO7)	—	0.60 ± 0.10 V 	Connect LCD panel for measurement
13	Tone voltage amplitude adjustment V9	No definition	CN4007 49-pin (TP:VO9)	—	3.30 ± 0.20 V 	Connect LCD panel for measurement
14	Preparation for image check	Input synchronized signal to TP CSYNC	—	—	0.3V 15.734kHz 	Input 0.3V (75Ω)
15	Check RGB digital output	Input white 100% signal to TP ANR1, ANG1, ANB1 (0.70Vpp±1%)	TP BO2 ~ BO5 TP GO2 ~ GO5 TP RO2 ~ RO5	—	Make sure that each output is "Hi" continuously during displaying image. 3.3V 50μs 	When OSD is displayed in EEPROM adjustment mode, LOW output is mixed to the parts where there is a character.
16	Composite level adjustment	Input composite image 10STEP signal to TP CVBS1 (1.4Vpp±1%)	TP GO1	Resistor setting of SA13h D5-0	Using EEPROM adjustment mode, set CMP CONTRAST on 30 and decrease value one by one. Decrease value by one when "L" starts to appear on output while displaying GO1 image.	Using EEPROM adjustment mode, check that CONTRAST is being 168 to make adjustment.
			TP GO2 ~ GO5		Check that "H" always appears on each output while displaying image.	When OSD is displayed on EEPROM adjustment mode, ignore "L" output shown among lettered part.
17	YS performance check	Input signal to TP YSIN For abroad: 0-3.3V For J spec: 0.4-1.4V(75Ω)			Verify YS performs.	

NOTE : When shutting off the power supply of TC90A64AFG, be careful not to energize each IC terminal. However, IIC line (SDA and SCL) is not included in this case and it is possible to energize it with up to 5V.

No.	Adjustment item	Input signal	Measurement point	Adjustment point	Adjustment	Note
18	YS, RGB sampling phase setting, check	No definition	—	Register setting for SA2Dh D15 ~ 12 : YS D11 ~ 8 : B D7 ~ 4 : G D3 ~ 0 : R	(Line writing): 0100 (Service): [YS (R, G, B) SAMPL] should be 12 in EEPROM test mode	Check EEPROM setting value after writing.
19	YS-OFFSET setting, check	No definition	—	Register setting of SA2Fh D3-0	(Line writing): 1111 (Service): [YS DELAY] should be 7 in EEPROM test mode	Check EEPROM setting value after writing.
20	Image check	Input composite image lamp signal (monochrome) to TP CVBS1	Screen	—	Make sure that tone changes smoothly, and there is no colored area in the entire display.	Execute to verify that 2-display IC digital-out is not bridged or "OPEN"ed.
21	Aging	No definition	—	—	Leave for more than 30 minutes in operation mode.	
22	Flicker adjustment	Input black-white reverse signal per 1 line to TP ANR1, ANG1, ANB1	Screen	IC4101-3pin (TP COMDC) DC output	Adjust the flicker level to minimum from all directions.	Black-white reverse signal can be the input to TP CVBS1 (however, adjustment in RGB comes first). Brightness level of reverse signal should be 50%. Adjustment point can be COM DC of flicker adjustment mode.

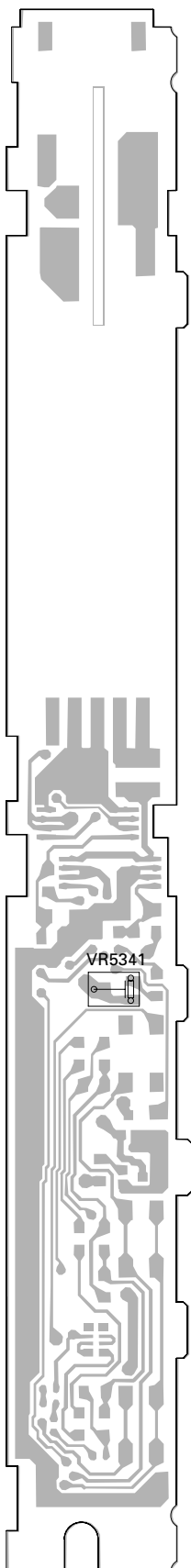
SA**h in this chart means the sub-address of TC90A64AFG.

6.5 INVERTER PCB ADJUSTMENT

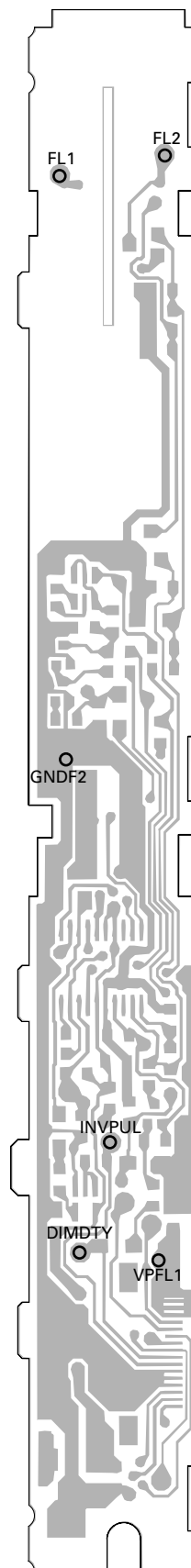


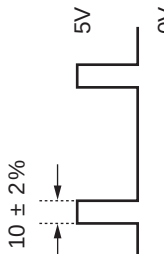
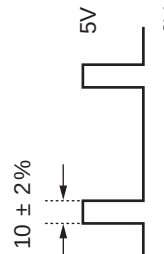
● Adjustment Point

SIDE A



SIDE B



No.	Adjustment item	Input signal	Measurement point	Adjustment point	Adjustment	Note
1	Basic drive Frequency adjustment	14.4 ± 0.2V to TP VPFL1 TP DIMDTY : GND TP GNDFL : GND TP INVPUL : GND	TP FL1 TP FL2	VR5341	48.0 ± 0.1kHz	Connect 100kΩ between TP FL1 and FL2. Monitor the waveform after voltage division of TP FL2. Do not monitor TP FL1 directly (measurement meter may be damaged because of high voltage).
2	Check frequency switching	Input 98.0 ± 1kHz waveform below to TP INVPUL. 	TP FL1 TP FL2	—	49.0 ± 0.5kHz	Verify that the frequency of waveform measured in No.1 is 49kHz.
3	Check frequency switching	Input 104.0 ± 1kHz waveform below to TP INVPUL. 	TP FL1 TP FL2	—	52.0 ± 0.5kHz	Verify that the frequency of waveform measured in No.1 is 52kHz.

6.6 MONITOR TEST MODE

● EEPROM Setting Mode

1. Start-up

- Reset and start-up the monitor microcomputer while EPRTTEST terminal is in the Low.
- Press EQ key + SOURCE key together to Reset Start.

2. Operation

- Switching setting mode
Press [MENU] key of remote control unit to go to the next mode.
- Selecting an adjustment item to be changed
Press [↑↓] key of remote control unit.
- Changing value of the selected item
Press [←→] key of remote control unit.

3. Setting mode

- (1) Flicker adjustment mode (start-up mode)
- (2) Line adjustment 1 mode
- (3) Line adjustment 2 mode
- (4) Line adjustment 3 mode
- (5) Line adjustment 4 mode
- (6) Line adjustment 5 mode
- (7) Line adjustment 6 mode
- (8) Line adjustment 7 mode
- (9) Line adjustment 8 mode
- (10) Line adjustment 9 mode
- (11) Line adjustment 10 mode
- (12) Parameter setting mode for dimmer

4. Operation key

[Remote control code]		head unit code	
Key		Code	
MENU		AD19AF63	
↑		AD40	
↓		AD41	
←		AD42	
→		AD43	

Main unit key

- (If pressing a monitor key in this adjustment mode, there is no affection in operation of the main unit.)
- * Please note that there is a model by which the remote control signal is not connected to the monitor microcomputer (in that case, operation should be done only by key).
 - * After writing a setting value to EEPROM, read and display it.
Writing and reading should be done in 16-bit unit. The bit number of settings varies in each item.
 - * After changing the value of CS (CHECKSUM), take exclusive OR (XOR) with 8-bit and execute writing.
After writing this CS value to EEPROM, read and display it, too.
If the written value and the read value are different, change the color of the read value.

5. Memory item list and EEPROM

EEPROM memory alignment chart (S-93C56BD0I-JS)

	ADDRESS	Bit15	Bit14	Bit13	Bit12	Bit11	Bit10	Bit9	Bit8	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0	
RELATED DIMMER	00h	Outside light of dimmer adjustment coordinates (high)									Backlight of dimmer adjustment coordinates (high)							
	01h	Outside light of dimmer adjustment coordinates (middle)									Backlight of dimmer adjustment coordinates (middle)							
	02h	Outside light of dimmer adjustment coordinates (low)									Backlight of dimmer adjustment coordinates (low)							
	03h	Outside light threshold for dimmer (high)									Outside light threshold for dimmer (low)							
	04h	Maximum value of backlight output									Minimum value of backlight output							
	05h	Checksum EEPROM address:03h-04h																
RELATED PIP (including operation settings)	06h	RGB &YS horizontal positioning									Don't care							
	07h	YS sampling phase					Bch sampling phase				Gch sampling phase				Rch sampling phase			
	08h	Don't care													YS internal delay adjustment value			
	09h	Checksum EEPROM address:06h-08h																
RELATED PIP (excluding operation settings)	0Ah	Common reference output DC center value									Common reverse output amplitude adjustment value							
	0Bh	Don't care		Brightness R							Don't care							
	0Ch	Don't care		Brightness G							Don't care							
	0Dh	Don't care		Brightness B							Don't care							
	0Eh	Don't care										Main Y contrast						
	0Fh	Don't care		Main horizontal enhancer						Sub vertical enhancer						Don't care		
				Gain		Limiter				fo		Gain		Replicate				Coring
	10h	Don't care										Sub Y contrast						
	11h	Don't care		Main horizontal enhancer						Sub vertical enhancer						Don't care		
				Gain		Limiter				fo		Gain		Replicate				Coring
	12h	Don't care	RGB simultaneous γ slope A				R output DC offset				Don't care		RGB simultaneous γ 1 inflection point					
	13h	RGB simultaneous γ slope B				RGB simultaneous γ 2 inflection point				RGB simultaneous γ slope C				RGB simultaneous γ 3 inflection point				
	14h	Don't care					G output DC offset				Don't care							
	15h	Don't care					B output DC offset				Don't care							
	16h	SA24h UPPER									SA24h LOWER							
	17h	SA25h UPPER									SA25h LOWER							
	18h	SA26h UPPER TV									SA26h LOWER TV							
	19h	SA26h UPPER									SA26h LOWER							
	1Ah	SA27h UPPER TV									SA27h LOWER TV							
	1Bh	SA27h UPPER									SA27h LOWER							
	1Ch	SA46h UPPER									SA46h LOWER							
	1Dh	SA47h UPPER									SA47h LOWER							
	1Eh	SA48h UPPER									SA48h LOWER							
	1Fh	SA49h UPPER									SA49h LOWER							
	20h	SA4Ah UPPER									SA4Ah LOWER							
	21h	SA4Bh UPPER									SA4Bh LOWER							
	22h	SA4Ch UPPER									SA4Ch LOWER							
	23h	SA4Dh UPPER									SA4Dh LOWER							
	24h	SA4Eh UPPER									SA4Eh LOWER							
	25h	SA4Fh UPPER									SA4Fh LOWER							
	26h	Dot search threshold									YS search threshold							
	27h	Phase search threshold									Xdisp (display difference permissible level)							
	28h	Don't care									YS disp (display difference permissible level)							
	29h	Checksum EEPROM address:0Ah-28H																
	2Ah	Don't care									Common reverse output DC center value reference							
RELATED TOUCH PANEL	2Bh	Touch panel X coordinate 1									Touch panel Y coordinate 1							
	2Ch	Touch panel X coordinate 2									Touch panel Y coordinate 2							
	2Dh	Touch panel X coordinate 3									Touch panel Y coordinate 3							
	2Eh	Touch panel X coordinate 4									Touch panel Y coordinate 4							
	2Fh	Touch panel X coordinate 5									Touch panel Y coordinate 5							
	30h	Touch panel X coordinate 6									Touch panel Y coordinate 6							
	31h	Touch panel X coordinate 7									Touch panel Y coordinate 7							
	32h	Touch panel X coordinate 8									Touch panel Y coordinate 8							
	33h	Touch panel X coordinate 9									Touch panel Y coordinate 9							

A

	ADDRESS	Bit15	Bit14	Bit13	Bit12	Bit11	Bit10	Bit9	Bit8	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
RELATED TOUCH PANEL	34h	Touch panel X coordinate 10								Touch panel Y coordinate 10							
	35h	Touch panel X coordinate 11								Touch panel Y coordinate 11							
	36h	Touch panel X coordinate 12								Touch panel Y coordinate 12							
	37h	Touch panel X coordinate 13								Touch panel Y coordinate 13							
	38h	Touch panel X coordinate 14								Touch panel Y coordinate 14							
	39h	Touch panel X coordinate 15								Touch panel Y coordinate 15							
	3Ah	Touch panel X coordinate 16								Touch panel Y coordinate 16							
	3Bh	Outermost circumference X min								Outermost circumference Y min							
	3Ch	Outermost circumference X max								Outermost circumference Y max							
	3Dh	Touch panel calibration adjustment result								Touch panel outermost circumference adjustment result							
	3Eh	Checksum EEPROM address:2BH-3DH															
Others	3FH	Flicker adjustment completion (writing of microcomputer) *A				EEPROM adjustment completion (writing of production engineering jig) *B				EJECT lock value							
Addition	40H	Don't care				Ch sampling phase reference				Ch sampling phase reference				Ch sampling phase reference			
To be determined	41H	Don't care															
	~	Don't care															
	7FH	Don't care															

B

* The order of RELATED DIMMER, RELATED PIP, RELATED TOUCH PANEL and others is determined according to frequency of changing.
* When a writing & reading error or data check (checksum, magnitude relation) error occurs, initialization is done with data belonging to the software at the error time, and initialization is performed per divided section described above.
However, RELATED DIMMER should be further divided into sections such as address 00H~02H and 03H~04H, then initialized.
* The user changeable parts (address 00H~02H) in the segment RELATED DIMMER is not a target of checksum.
* Concerning the segment RELATED DIMMER, considering PIP register configuration, data obtained from PIP can be stored without software processing.
And the alignment is designed to send data obtained from EEPROM to PIP without processing it. (same as NN629)
Each area is divided according as whether it is changed during operation or not. (Checksum division is carried out to each.)
* Address 2H, remote control reverse output DC center value reference is not a target of checksum because it maintains default settings, and basically it is READ ONLY and is not shipped.
* Address 40H, sampling phase reference is not a target of checksum because it maintains default settings, and basically it is READ ONLY and is not shipped.
* At the time of EEPROM reset, the address above (excluding 2AH, 40H) is initialized with data belonging to the software.
*A : Microcomputer writes the result whether flicker adjustment is performed or not (direct mode, EEPROM adjustment screen).
*B : Production engineering jig: After completing EEPROM adjustment, the value is written (this value is displayed on the confirmation screen).

C

D

E

F

6. Screen specification of each mode

Actual OSD screen samples are showed inside of the thick frame in the chart below.

The numbers in the chart are the changed parts during adjustment in each screen (maximum value is showed in the sample).
The items are for design review and line adjustment.

■ Flicker adjustment mode

Setting item	Adjustment range	Display item	Adjustment value Write value (DEC)		
Common reverse output center value	[0-255]	COM_DC	255		

* ■ Note1 : The contents of [COM DC, clock phase] should be reflected to the reverse output center reference value.

■ Line adjustment 1 mode

Setting item	Adjustment range	Display item	Adjustment value Write value (DEC)		
Bright	[0-255]	BRIGHT	150	NOT	LINE1 EEPROM
RGB simultaneous contrast (SA0C [D0-7])	[0-255]	CONTRAST	168	NOT	EEPROM
Common reverse output amplitude adjustment value	[0-255]	COM AMP AJ	150		
R output DC offset (SA1A [D11-8])	[0-15]	ROUT BIAS	8		
G output DC offset (SA1C [D11-8])	[0-15]	GOUT BIAS	8		
B output DC offset (SA1E [D11-8])	[0-15]	BOUT BIAS	8		
Main Y contrast (SA0F [D5-0])	[0-63]	RGB CNTRST	34		
Sub Y contrast (SA13 [D5-0])	[0-63]	CMP CNTRST	26		
				CS	FFFF

- Adjust common reverse output amplitude by line in order to cancel the variation of hardware quality.
- [COM AMPAJ] is a default value set by line and stored in EEPROM.
- In the normal operation, [BRIGHT] is determined based on COM AMPAJ (common reverse output amplitude adjustment) and the attached "Image quality table" according to user setting steps, and this value controls monitor microcomputer [COM_AC] output.
- User's adjustment of "Black density (=bright)" on this product is done by controlling common reverse output amplitude only, not done by brightness of 2-display IC.
- User's adjustment of "Black density" is not reflected to [BRIGHT] in the test mode of single monitor.
When adjusting [COM AMPAJ], [BRIGHT] changes accordingly. (Memorized [COM AMPAJ] is the same as the [BRIGHT] value of step0.)
- When entering test mode in product condition, "Black density" by user's adjustment is reflected to [BRIGHT] value.
If changing [BRIGHT] value in the test mode, it is not reflected to the user setting value.
- * ■ Note1 : The contents of [BRIGHT] and [CONTRAST] are the reference value for adjusting the other items, and not stored in EEPROM.
- * ■ Note2 : Be careful about the contents of [R, G, B OUT BIAS] and [RGB, CMP CONTRST] since their indicated value / EEPROM written value and their registered value of 2-display IC (TC90A96AFG) are different.
(Software conversion is running because correlation between registered value of 2-display IC and display output is not linear.)

[R, G, BOUT BIAS]

Indicated value (=adjustment value) (DEC)	EEPROM written value (DEC)	Registered value of 2- display IC (BIN)	
15	15	0111	(MAX)
14	14	0110	
:	:	:	
9	9	0001	
8	8	0000	(TYP)
7	7	1111	
:	:	:	
1	1	1001	
0	0	1000	(MIN)

[RGB, CMP, CNTRST]

Indicated value (=adjustment value) (DEC)	EEPROM written value (DEC)	Registered value of 2- display IC (BIN)	
63	63	011111	(MAX)
62	62	011110	
:	:	:	
33	33	000001	
32	32	000000	(TYP)
31	31	111111	
:	:	:	
1	1	100001	
0	0	100000	(MIN)

■ Line adjustment 2 mode

Setting item	Adjustment range	Display item	Adjustment value Write value (DEC)		
RGB & YS horizontal alignment (SA2B [D15-8])	[0-255]	DOT H POSIT	63		LINE2
YS sampling phase 1 (SA2D [D15-12])	[0-15]	YS SAMPL	8		
AD sampling phase B (SA2D [D11-8])	[0-15]	B SAMPL	8		
AD sampling phase G (SA2D [D7-4])	[0-15]	G SAMPL	8		
AD sampling phase R (SA2D [D3-0])	[0-15]	R SAMPL	8		
YS internal delay adjustment phase (SA2F [D3-0])	[0-15]	YS DELAY	8		
				CS	FFFF

* ■ Note : Be careful about the contents of [YS,R,G,B SAMPL] and [YS DELAY] since their indicated value / EEPROM written value and their registered value of 2-display IC (TC90A96AFG) are different.
(Software conversion is running because correlation between registered value of 2-display IC and display output is not linear.)

Indicated value (=adjustment value) (DEC)	EEPROM written value (DEC)	Registered value of 2- display IC (BIN)	
15	15	0111	(MAX)
14	14	0110	
:	:	:	
9	9	0001	
8	8	0000	(TYP)
7	7	1111	
:	:	:	
1	1	1001	
0	0	1000	(MIN)

■ Line adjustment 3 mode

Setting item	Adjustment range	Display item	Adjustment value Write value (DEC)		
Dot search threshold	[0-255]	TH DOT	112		LINE3
YS search threshold	[0-4]	TH YS	3		
Phase search threshold	[0-255]	TH PHASE	112		
Xdisp	[0-63]	X DISP	32		
Ydisp	[0-4]	YS DISP	2		
				CS	FFFF

■ Line adjustment 4 mode

Setting item	Adjustment range	Display item	Adjustment value Write value (DEC)		
Main horizontal enhancer gain (SA10 [D13-12])	[0-3]	MH GAIN	0		LINE4
Main horizontal enhancer limiter (SA10 [D11-10])	[0-3]	MH LIMIT	0		
Main horizontal enhancer f0 (SA10 [D8])	[0-1]	MH F0	0		
Main vertical enhancer gain (SA10 [D7-6])	[0-3]	MV GAIN	0		
Main vertical enhancer replicable (SA10 [D5-4])	[0-3]	MV ORI	0		
Main vertical enhancer coring (SA10 [D3-2])	[0-3]	MV CORE	0		
				CS	FFFF

Line adjustment 5 mode

A

Setting item	Adjustment range	Display item	Adjustment value Write value (DEC)		
Sub horizontal enhancer gain (SA14 [D13-12])	[0-3]	SH GAIN	1		LINE5
Sub horizontal enhancer limiter (SA14 [D11-10])	[0-3]	SH LIMIT	1		
Sub horizontal enhancer f0 (SA14 [D8])	[0-1]	SH F0	1		
Sub vertical enhancer gain (SA14 [D7-6])	[0-3]	SV GAIN	2		
Sub vertical enhancer replicable (SA14 [D5-4])	[0-3]	SV ORI	1		
Sub vertical enhancer coring (SA14 [D3-2])	[0-3]	SV CORE	2		
				CS	FFFF

B

Line adjustment 6 mode

C

Setting item	Adjustment range	Display item	Adjustment value Write value (DEC)		
Brightness R (SA0C [D13-8])	[0-63]	BRIGHT R	16	LINE6	
Brightness G (SA0D [D13-8])	[0-63]	BRIGHT G	16		
Brightness B (SA0E [D13-8])	[0-63]	BRIGHT B	16		
γ control ON/OFF (SA1A [D15])		GAMMA	OFF		
RGB simultaneous γ 1 inflection point (SA1A [D5-D0])	[0-63]	GAMMA 1	0		
RGB simultaneous γ 2 inflection point (SA1B [D12-8])	[0-31]	GAMMA 2	4		
RGB simultaneous γ 3 inflection point (SA1B [D4-D0])	[0-31]	GAMMA 3	1		
RGB simultaneous γ slope A (SA1A [D14-12])	[0-7]	GAMMASLP A	4		
RGB simultaneous γ slope B (SA1B [D15-13])	[0-7]	GAMMASLP B	1		
RGB simultaneous γ slope C (SA1B [D7-5])	[0-7]	GAMMASLP C	1	CS	FFFF

* ■ Note : Be careful about the contents of [BRIGHTNESS R, G, B] since their indicated value / EEPROM written value and their registered value of 2-display IC (TC90A96AFG) are different.
(Software conversion is running because correlation between registered value of 2-display IC and display output is not linear.)

D

[BRIGHTNESS R, G, B]

Indicated value (=adjustment value) (DEC)	EEPROM written value (DEC)	Registered value of 2- display IC (BIN)	
63	63	011111	(MAX)
62	62	011110	
⋮	⋮	⋮	
33	33	000001	
32	32	000000	(TYP)
31	31	111111	
⋮	⋮	⋮	
1	1	100001	
0	0	100000	(MIN)

E

F

■ Line adjustment 7 mode

Setting item	Adjustment range	Display item	Adjustment value Write value (DEC)		
Main PLL0 (SA24 [D15-D8])	[0-255]	MAIN PLL0	158		LINE7
Main PLL1 (SA24 [D7-D0])	[0-255]	MAIN PLL1	13		
Main PLL2 (SA25 [D15-D8])	[0-255]	MAIN PLL2	204		
Main PLL3 (SA25 [D7-D0])	[0-255]	MAIN PLL3	4		
				CS	FFFF

■ Line adjustment 8 mode

Setting item	Adjustment range	Display item	Adjustment value Write value (DEC)		
TV sub PLL0 (SA26 [D15-8])	[0-255]	SUB PLL0 TV	140		LINE8
TV sub PLL1 (SA26 [D7-D0])	[0-255]	SUB PLL1 TV	136		
Other sub PLL0 (SA27 [D15-D8])	[0-255]	SUB PLL0	140		
Other sub PLL1 (SA27 [D7-D0])	[0-255]	SUB PLL1	141		
TV sub PLL2 (SA28 [D15-8])	[0-255]	SUB PLL2 TV	100		
TV sub PLL3 (SA28 [D7-D0])	[0-255]	SUB PLL3 TV	68		
Other sub PLL0 (SA29 [D15-D8])	[0-255]	SUB PLL2	152		
Other sub PLL1 (SA29 [D7-D0])	[0-255]	SUB PLL3	135		
				CS	FFFF

■ Line adjustment 9 mode

Setting item	Adjustment range	Display item	Adjustment value Write value (DEC)		
SA46[D15-8]	[0-255]	SA46H UPPER	0		LINE9
SA46[D7-D0]	[0-255]	SA46H LOWER	0		
SA47[D15-8]	[0-255]	SA47H UPPER	0		
SA47[D7-D0]	[0-255]	SA47H LOWER	0		
SA48[D15-8]	[0-255]	SA48H UPPER	0		
SA48[D7-D0]	[0-255]	SA48H LOWER	0		
SA49[D15-D8]	[0-255]	SA49H UPPER	0		
SA49[D7-D0]	[0-255]	SA49H LOWER	0		
SA4A[D15-8]	[0-255]	SA4AH UPPER	0		
SA4A[D7-D0]	[0-255]	SA4AH LOWER	0	CS	FFFF

Line adjustment 10 mode

A

Setting item	Adjustment range	Display item	Adjustment value Write value (DEC)		
SA4B[D15-D8]	[0-255]	SA4BH UPPER	0		LINE10
SA4B[D7-D0]	[0-255]	SA4BH LOWER	0		
SA4C[D15-D8]	[0-255]	SA4CH UPPER	0		
SA4C[D7-D0]	[0-255]	SA4CH LOWER	0		
SA4D[D15-D8]	[0-255]	SA4DH UPPER	0		
SA4D[D7-D0]	[0-255]	SA4DH LOWER	0		
SA4E[D15-D8]	[0-255]	SA4EH UPPER	0		
SA4E[D7-D0]	[0-255]	SA4EH LOWER	0		
SA4F[D15-D8]	[0-255]	SA4FH UPPER	0		
SA4F[D7-D0]	[0-255]	SA4FH LOWER	0	CS	FFFF

B

Parameter setting mode for dimmer

C

Setting item	Adjustment range	Display item	Adjustment value Write value (DEC)		
Maximum Backlight power	[0-255]	BL MAX	C4		DIMMER
Minimum Backlight power	[0-255]	BL MIN	59		
Dimmer threshold (high)	[0-255]	REF H	C0		
Dimmer threshold (low)	[0-255]	REF L	60		
Outside light point (high)	[0-255]	LUM H	E2		
Outside light point (middle)	[0-255]	LUM M	87		
Outside light point (low)	[0-255]	LUM L	52		
Backlight point (high)	[0-255]	BL H	C4		
Backlight point (middle)	[0-255]	BL M	C4		
Backlight point (low)	[0-255]	BL L	68	CS	FFFF

* Data of point for dimmer (coordinates) is stored in EEPROM but is not a target of CS since that is changeable by user's operation.

D

List of EEPROM write values

DIMMER relation

Item	EEPROM initial value (HEX)
Upper limit of backlight output	C4
Lower limit of backlight output	59
Threshold value (high) of outer light for DIMMER	C0
Threshold value (low) of outer light for DIMMER	60
Outer light value on DIMMER-adjusted coordinate (high)	E2
Outer light value on DIMMER-adjusted coordinate (middle)	87
Outer light value on DIMMER-adjusted coordinate (low)	52
Backlight value on DIMMER-adjusted coordinate (high)	C4
Backlight value on DIMMER-adjusted coordinate (middle)	C4
Backlight value on DIMMER-adjusted coordinate (low)	68

E

Touch panel relation

Item	EEPROM initial value (HEX)	EEPROM initial value (DEC)
X coordinate (1-16) of touch panel	00	00
Y coordinate (1-16) of touch panel	00	00
Ultimate perimeter (Xmin) of touch panel	3A	58
Ultimate perimeter (Xmax) of touch panel	F8	248
Ultimate perimeter (Ymin) of touch panel	40	64
Ultimate perimeter (Ymax) of touch panel	F1	241
Result of adjusting calibration of touch panel	00	00
Result of adjusting ultimate perimeter of touch panel	00	00

F

IC relation on Screen 2

Item	E2PROM initial value (HEX)	E2PROM initial value (DEC)	
COM_DC			*The value shown on the left is initial value which is adjusted based on No. 22 Flicker Adjustment in 6.4 Monitor PCB Adjustment.
	(5C)	(92)	
COM_AMP_AJ	96	150	
ROUT_BIAS	08	8	
GOUT_BIAS	08	8	
BOUT_BIAS	08	8	
RGB_CNTRST	22	34	
CMP_CNTRST			*The value shown on the left is initial value which is adjusted based on No. 16 Composite Level Adjustment in 6.4 Monitor PCB Adjustme-nt.
	1A	26	
DOT_H_POSIT	3F	63	
YS_SAMPL	0C	12	
B_SAMPL	0C	12	
G_SAMPL	0C	12	
R_SAMPL	0C	12	
YS_DELAY	07	7	
TH_DOT	70	112	
TH_YS	03	3	
TH_PHASE	70	112	
X_DISP	20	32	
YS_DISP	02	2	
M_H_GAIN	00	0	
M_H_LIMIT	00	0	
M_H_F0	00	0	
M_V_GAIN	00	0	
M_V_ORI	00	0	
M_V_CORE	00	0	
S_H_GAIN	00	0	
S_H_LIMIT	01	1	
S_H_F0	01	1	
S_V_GAIN	00	0	
S_V_ORI	01	1	
S_V_CORE	02	2	
BRIGHT_R	10	16	
BRIGHT_G	10	16	
BRIGHT_B	10	16	
GAMMA_1	00	0	
GAMMA_2	04	4	
GAMMA_3	01	1	
GAMMASLP_A	04	4	
GAMMASLP_B	01	1	
GAMMASLP_C	01	1	
SA24H_UPPER	9E	158	
SA24H_LOWER	0D	13	
SA25H_UPPER	CC	204	
SA25H_LOWER	04	4	
SA26H_UPPER_TV	8C	140	
SA26H_LOWER_TV	88	136	
SA26H_UPPER	8C	140	
SA26H_LOWER	8D	141	
SA27H_UPPER_TV	64	100	
SA27H_LOWER_TV	44	68	
SA27H_UPPER	98	152	
SA27H_LOWER	6B	107	
SA46H_UPPER	02	2	
SA46H_LOWER	00	0	
SA47H_UPPER	00	0	
SA47H_LOWER	00	0	
SA48H_UPPER	00	0	
SA48H_LOWER	00	0	
SA49H_UPPER	00	0	
SA49H_LOWER	00	0	
SA4AH_UPPER	00	0	
SA4AH_LOWER	00	0	
SA4BH_UPPER	00	0	
SA4BH_LOWER	00	0	
SA4CH_UPPER	00	0	
SA4CH_LOWER	00	0	
SA4DH_UPPER	00	0	
SA4DH_LOWER	00	0	
SA4EH_UPPER	00	0	
SA4EH_LOWER	00	0	
SA4FH_UPPER	00	0	
SA4FH_LOWER	00	0	

6.7 TOUCH PANEL TEST MODE

1 TOP MENU

1.1 Screen configuration

Select each item of touch panel test mode.

0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
# # # C a l i b r a t i o n / T P - t e s t # # #																			
0																			
1																			
2	※ 1. S e t u p T P e f f e c t i v e r a n g e																		
3	※ 2. S e t u p c a l i b r a t i o n																		
4	3. T o u c h - p a n e l t e s t																		
5	4. C a l i b r a t i o n t e s t																		
6	5. D a t a i n i t i a l i z e																		
7	[E N T E R] M e n u s e l e c t i o n																		
8	[U P / D O W N] C u r s o r m o v e m e n t																		
9	[A C C O F F] E n d o f t e s t																		

Currently selected item is displayed in blue (default : 1).

- * Background : black
- Characters : white
- Selected characters : blue
- Confirmation indication of conditioned item : red
- Non-selectable items : gray

1.2 Operation specification

Reset Start by pressing ATT and ANGLE+ to go to touch panel calibration mode.
Select each item with up and down keys and go to each setting screen with A.MENU key.

[Remote control code]		[Main unit key]	
Key	Code	Key	
ENTER	AD19AF63	ENTER	
↑	AD40	↑	
↓	AD41	↓	

1.3 Processing detail

There is no condition in MENU selection.

1.4 Screen detail

The ※ mark meaning “conditioned item” is indicated under following condition:
※ 1
When outermost circumference is adjusted, it is indicated.
※ 2
When 16-point adjustment is done, it is indicated.

The ※ mark meaning “conditioned item” is not indicated under following condition:
No calibration is done after product completion.
Adjusted value initialization is done.
EEPROM initialization is done.

Confirmation indication of conditioned EEPROM Newly available with this product
See “Production engineering test : result feedback specification document” for more detail.

2 OUTERMOST CIRCUMFERENCE

2.1 Screen configuration

Go over the outermost circumference of touch panel to store the set value to EEPROM.

0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
0	#	#	S	e	t	u	p	T	P	e	f	f	e	c	t	i	v	e	r	a	n	g	e	#	#				
1			T	h	e		p	r	e	s	e	n	t																
2			e	f	f	e	c	t																					
3																													
4																													
5																													
6																													
7																													
8																													
9																													

* [before] is the data stored already in EEPROM.

[after] is the data going to be stored now.

Audit result confirmation screen : normal case

0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
0																													
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													

Audit result confirmation screen: abnormal case

0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
0																													
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													

NG condition information

2.2 Operation specification

Touch the outermost circumference of screen, and take outermost circumference value of X, Y.

Press [ENT] key of main unit or remote control unit to finish adjustment.
After finishing adjustment, if a taken value is within permissible zone, enter [O.K] at the center, and if it is outside permissible zone, enter [NG] at the center.
Then, press [ENT] key of main unit or remote control unit to return to TOP MENU.

2.3 Processing detail

Press [ENT] key of main unit or remote control unit to finish adjustment and store setting value (maximum and minimum value) to EEPROM only when the taken value is within permissible zone.

Receive confirmation screen TP and display OK or NG after fulfilling the following conditions:
[O.K] is displayed after storing a taken value to EEPROM.
[NG] is displayed when a taken value is determined to be outside permissible zone.

Default is showed below.

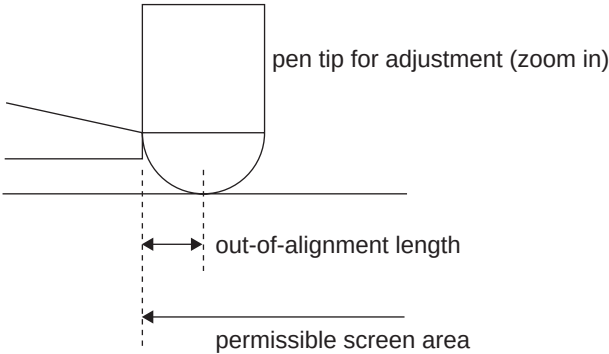
Coordinates	Minimum	Maximum
X	58	248
Y	64	241

2.4 Additional information

Consider diameter of the top of jig (pen tip) before adjusting outermost circumference.

Out-of-alignment length 0.8 mm

Perform calibration data operation with the size calculated by subtracting out-of-alignment length from permissible screen area.



5 6 7 8

3 CALIBRATION

3.1 Overview

Press cursor [+] on the screen in turn to calibrate and store the set value to EEPROM.

0 1 2 3 4 5 6 7 8 9										0 1 2 3 4 5 6 7 8 9																		
0	+ 13						+ 12						+ 5						+ 4			0						
1																			1									
2																			2									
3	+ 14						+ 11						+ 6						+ 3			3						
4																			4									
5																			5									
6	+ 15						+ 10						+ 7						+ 2			6						
7																			7									
8																			8									
9	+ 16		+ 17		+ 9		+ 8								+ 1		9											

* It is invalid if the distant point from displayed block is pressed.

0 1 2 3 4 5 6 7 8 9										0 1 2 3 4 5 6 7 8 9									
0																			0
1																			1
2																			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9

* The number above shows the order of displaying cursor.

* [FINISHED] above is displayed when the number 17 is pressed.

3.2 Operation specification

Execute calibration by pressing cursor displayed at 16 points on the screen in turn and press one point to finish at the end (total 17 points).

After the 17th point is displayed, [FINISHED] is indicated at the center of the screen.

Cursor is always showing one point only and the next cursor is displayed after pressing one correctly.

Press [ENT] key of main unit or remote control unit to return to TOP MENU.

When pressing [ESC] during adjustment, the adjusted value is not stored and TOP MENU screen is displayed.

3.3 Processing detail

The taken setting value is stored in EEPROM only when pressing the 17th point, and [FINISHED] is displayed after storing.

See "Engineering Specification (monitor) EEPROM Memory Alignment" about the area for storing EEPROM settings.

See "Attachment 1 Calibration Settings" about cursor indicating position.

See "Attachment 2 Calibration Settings" about setting value of cursor point.

4 TOUCH PANEL COORDINATES AUDIT

4.1 Screen configuration

A Check displayed coordinates before and after correction when pressing touch panel and perform operation check.

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9

0	# # #	T P	c o o r d i n a t e s										t e s t	# # #	0								
1																	1						
2		+	P	o	s	i	t	i	o	n	(	7	9	,	8	0	)	2					
3			A	D							(	0	,	0	)		3						
4			B	e	f	o	r	e			(	0	,	0	)		4						
5			A	f	t	e	r				(	0	,	0	)		5						
6																	6						
7																	7						
8	[	E	N	T	E	R	]		R	e	t	u	r	n		t	o	M	e	n	u		8
9																						9	

B

M152 : The + mark is not displayed at 16 points on the screen.

4.2 Operation specification

Move [+] mark by up and down, right and left keys and display its OSD coordinates.
Press [ENT] key of main unit or remote control unit to return to TOP MENU.

[Remote control unit code]

Key	Code
ENTER	AD19AF63
↑	AD40
↓	AD41
←	AD42
→	AD43

Operatable with main unit key

Operatable only with remote control unit

C

4.3 Processing detail

- * Explanation about displayed coordinates (from up to down)
(79, 80) : Drawing system coordinates of the cross point of horizontal and vertical lines (X direction, Y direction [0-500, 0-240]).
(0,0) : AD data value of the coordinates of pressed point (X direction, Y direction).
(0,0) : The coordinates of normalized AD data of pressed point within permissible zone (X direction, Y direction).
(0,0) : The coordinates corrected by calibration of the normalized coordinates (X direction, Y direction).

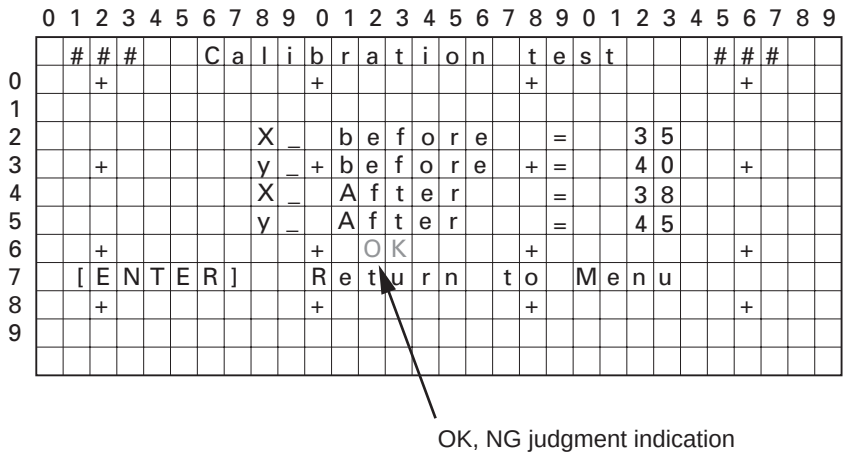
Specification correction
Rounding was done within the setting range with outermost circumference adjustment in the conventional product (AVH-P9DVA).
When value more than outermost circumference value was entered, the outermost circumference value was used.
From this time, considering that audit may be performed without outermost circumference adjustment, no limit is set.

E

F

4.4 Screen processing (additional)

The + mark at the point touched on screen is displayed.
When a finger etc. is detached, the + mark at the point pressed at the last moment is displayed continuously.
The + mark displayed when being pressed is showed at the under layer of the fixed red + mark.
The value displayed at that time is still being displayed.



4.5 Judgment processing

According to the length between + indication and touched coordinates (the point where the cursor is pointed), OK or NG is indicated.

- OK condition
- the length between + position and cursor indication is within ± 6 mm at the center
- NG condition
- except OK condition

5 TOUCH PANEL CONFIRMATION

5.1 Screen configuration

Check displayed coordinates before and after correction when pressing touch panel and perform operation check.

	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
	#	#	#					C	a	i	b	r	a	t	i	o	n		t	e	s	t					#	#	#		
0			+								+										+								+		
1																															
2								X	_			b	e	f	o	r	e		=						3	5					
3			+					y	_	+		b	e	f	o	r	e		+	=					4	0			+		
4								X	_			A	f	t	e	r		=							3	8					
5								y	_			A	f	t	e	r		=							4	5					
6			+							+								+										+			
7			[	E	N	T	E	R	]			R	e	t	u	r	n		t	o		M	e	n	u						
8			+							+									+								+				
9																															

5.2 Operation specification

Check the coordinates before and after correction by touching the touch panel.

Press [ENT] key of main unit or remote control unit to return to TOP MENU.

5.3 Processing detail

Displayed items

panel x_before = * normalized data before calibration (0-255)
 panel y_before = * normalized data before calibration (0-255)
 panel x_after = * normalized data after calibration (0-255)
 panel y_after = * normalized data after calibration (0-255)

Follow the steps below to convert AD value entered from touch panel to the corrected coordinates.

(Follow ① → ② in turn. Execute them during regular operation.)

① Data expansion of raw coordinates

Coordinates after data expansion = (raw coordinates – minimum value) × 255 ÷ (maximum value – minimum value)

* If raw coordinates are 0, the coordinates after data expansion should be 0.

② Coordinates correction after data expansion

(1) If the coordinates are under 224 after data expansion;

Coordinates after correction = coordinates after data expansion + correction value × (1 – (coordinates after data expansion – 224) ÷ 31)

* 31: Because there are 31 points of coordinates position from the value 225 to 255.

* The effect of correction value declines as the value is going to 255.

(2) If the coordinates are less than or equal to 32 after data expansion;

Coordinates after correction = coordinates after data expansion + (correction value × coordinates after data expansion ÷ 32)

* 32: Because there are 32 points of coordinates position from the value 0 to 32 (coordinates 0 is not included).

* The effect of correction value declines as the value is going to 0.

(3) If the coordinates are 33 ~ 224 after data expansion;

Coordinates after correction = coordinates after data expansion + B + (A – B) × (coordinates after data expansion – C) ÷ 64)

* 64: Because there are 64 points of coordinates position in each area.

* Add the correction value at the left corner first. Then, the effect of correction value is increasing as going to right.

Coordinates after data	A	B	C
33 ~ 95	Right corner correction data of correction area	Left corner correction data of correction area	Left corner coordinates of correction area
96 ~ 160			
161 ~ 224			

6 INITIALIZATION OF TOUCH PANEL CALIBRATION DATA

6.1 Screen configuration

Return the outermost circumference, 16-point calibration data to default.

	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9				
	#	#	#	T	P		d	a		i	n	i	t	i	a		l	i		z	e	#	#	#
0																								
1																								
2	[		▲			]	※		R	a	n	g	e		i	n	i	t						
3																								
4	[		▼			]	※		C	a	l	i	b	r	a	t	i	o	n		i	n	i	t
5																								
6																								
7																								
8	[	E	N	T	E	R	]		R	e	t	u	r	n		t	o		M	e	n	u		
9																								

The ※ mark indicates that adjustment is finished.
Deleted after initialization.
(initialization = default inside microcomputer)

6.2 Operation specification

- up key [▲] Clearing outermost circumference adjustment value and return it to default
- down key [▼] Clearing 16-point calibration value and return it to default.

Press [ENT] key of main unit or remote control unit to return to TOP MENU.

6.3 Processing detail

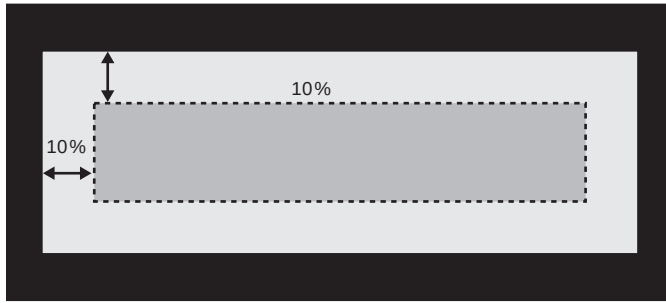
[Initialization processing]
It initializes outermost circumference value and 16-point value.
It writes default of initialized items to EEPROM and clears conditioned flag.

● Information About Permissible Error Settings For TPS Touch Panel Audit

Outermost circumference settings

Permissible error of outermost circumference should be 10% of valid zone.

* 10% is calculated by the value determined by the outermost circumference zone as 100.



 Settings valid zone (OK)

 Settings invalid zone (NG)

Outermost circumference default

		min	max
X	Voltage (V)	0.75	3.21
	digital (AD)	58	248
	dot (OSD)	0	240
	NAVI	0	255
Y	Voltage (V)	0.83	3.12
	digital (AD)	64	241
	dot (OSD)	0	232
	NAVI	0	255
	ref	3.3	(V)

*Default above is measured with to the very limit of frame during measuring outermost circumference value.

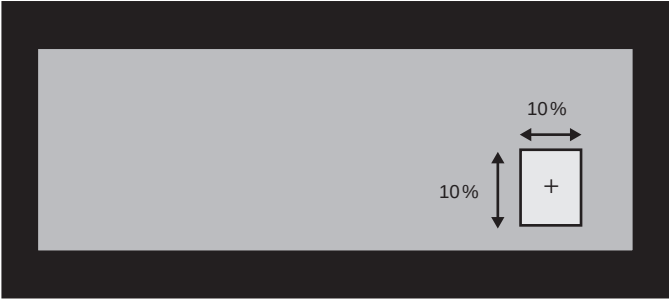
Outermost circumference permissible error value

		Δ	10%
X	Voltage (V)	0.25	
	digital (AD)	19	
	dot (OSD)	24	
	NAVI	26	
Y	Voltage (V)	0.23	
	digital (AD)	18	
	dot (OSD)	23	
	NAVI	26	

Outermost circumference adjustment OK zone

		min	max
X	Minimum permissible value	0	229
	Maximum permissible value	77	255
Y	Minimum permissible value	0	223
	Maximum permissible value	82	255

Calibration
Permissible error of point calibration should be 10%



Settings valid zone (OK)

Settings invalid zone (NG)

Outermost circumference permissible error value

		$\triangle$	10%
X	Voltage (V)	0.25	
	digital (AD)	19	
	dot (OSD)	24	
	NAVI	26	
Y	Voltage (V)	0.23	
	digital (AD)	18	
	dot (OSD)	23	
	NAVI	26	
ref	3.3 (V)		

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 DISASSEMBLY

● Removing the Grille Assy (Fig.1)

Monitor section is drawn out forward.

- ➡ **1** Remove the two screws and then remove the Holder.
Disconnect the connector.
- ➡ **2** Remove the two screws and then remove the Grille Assy.

● Removing the Case

- ➡ **3** Remove the five screws.(Fig.1)
- ➡ **4** Remove the screw.(Fig.1)
- ➡ **5** Remove the two screws and then remove the Case.(Fig.1)

Note) Inside the product there is a flexible substrate that connects the Case and the Bracket.
Be very careful and do not give it a strong pull when removing the Case, otherwise it may be torn.

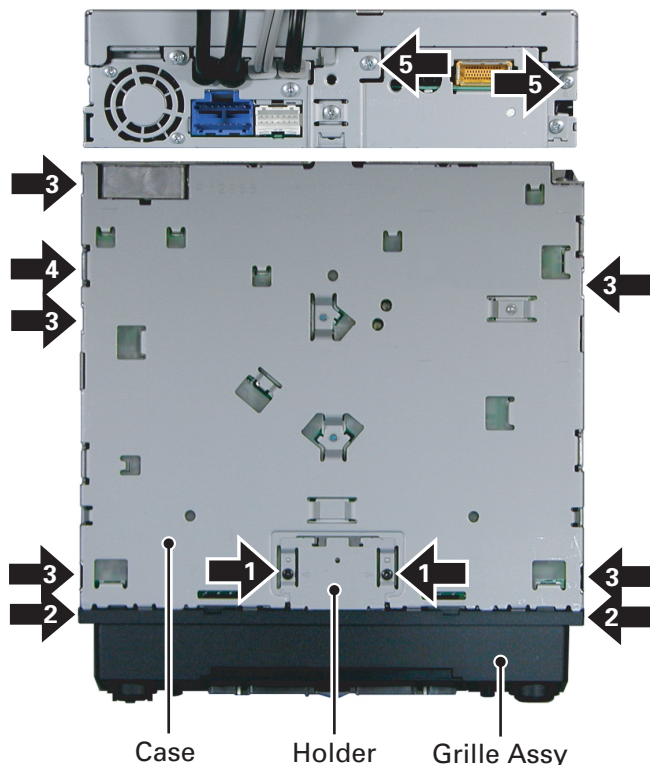


Fig.1

● Removing the DVD Mechanism Module (Fig.2)

- ➡ **1** Remove the four screws.

Disconnect the connector and then remove the DVD Mechanism Module.

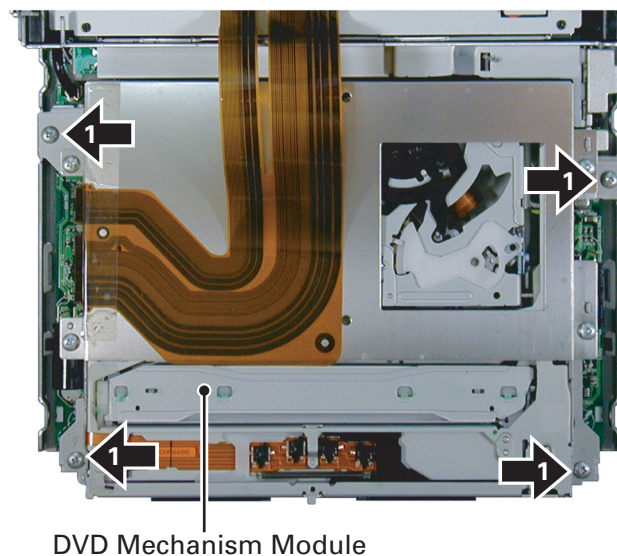


Fig.2

● Removing the Mother Unit (Fig.3)

- 1** Straighten the tabs at two locations indicated.
- 2** Remove the two screws and then remove the Holder.
- 3** Remove the two screws.
Disconnect the connector and then remove the Fan Motor.
- 4** Remove the two screws.
- 5** Remove the five screws and then remove the Panel.
- 6** Straighten the tabs at five locations indicated.
- 7** Remove the screw and then remove the Mother Unit.

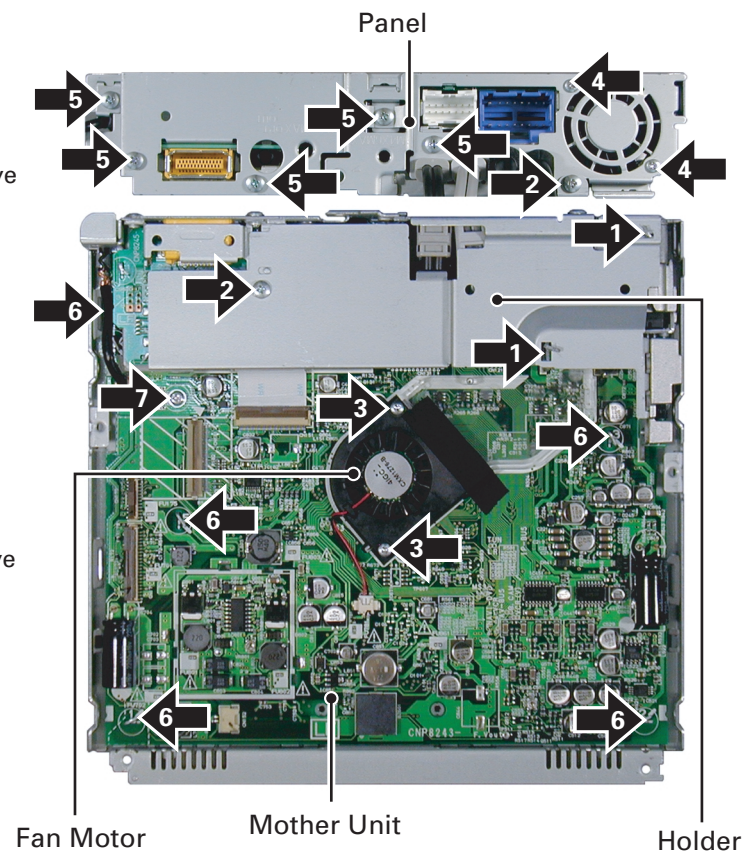


Fig.3

● Removing the Case (Fig.4)

- 1** Remove the two screws and then remove the Lever.
- 2** Remove the three screws and then remove the Holder.
- 3** Disconnect the connector.
- 4** Remove the screw.
- 5** Remove the five screws and then remove the Case.

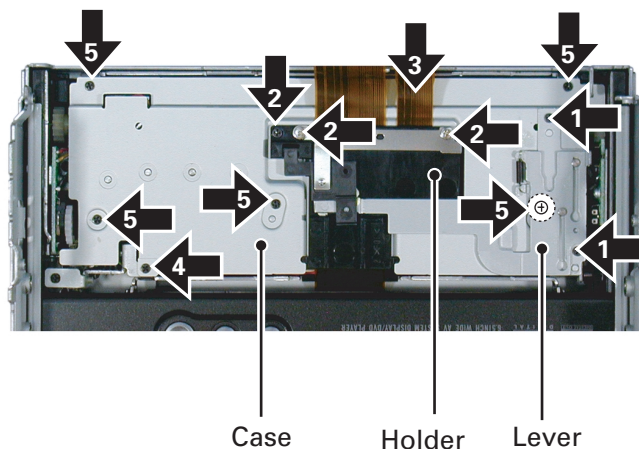


Fig.4

● Removing the Display Assy (Fig.5)

- 1** Remove the screw.
- Disconnect the connector and then remove the Motor Unit.
- 2** Remove the two screws and then remove the two Holders.
 - 3** Pull out the Display Assy in the arrow indicated direction.

Note) When reassembling, hold the switch down with tweezers or the like and put the Display Assy back to the Chassis. Otherwise, the switch may be damaged and not function properly.

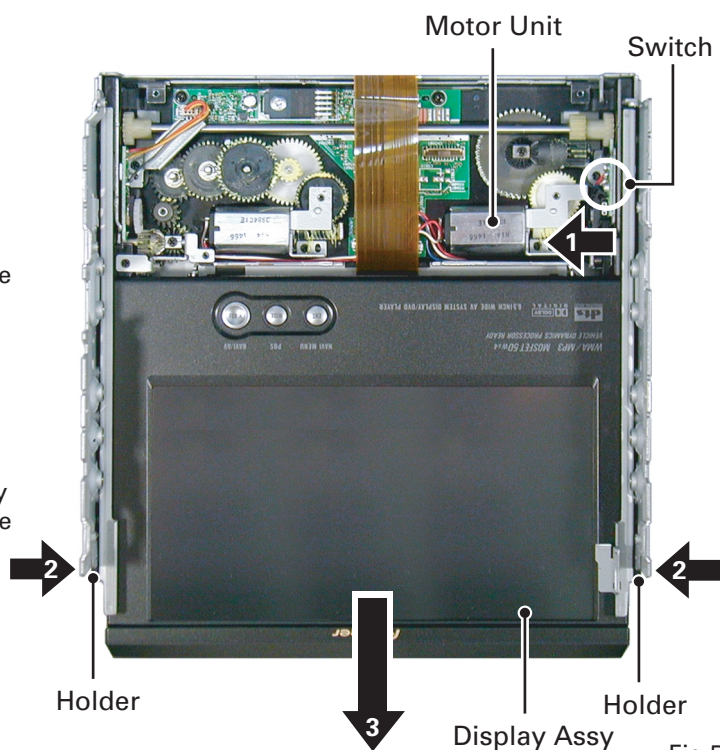


Fig.5

● Removing the Main Unit (Fig.6)

- 1** Remove the screw and then remove the Bracket.
- 2** Remove the four screws and then remove the Shaft Unit.
- 3** Remove the three screws.

Disconnect the connector and then remove the Main Unit.

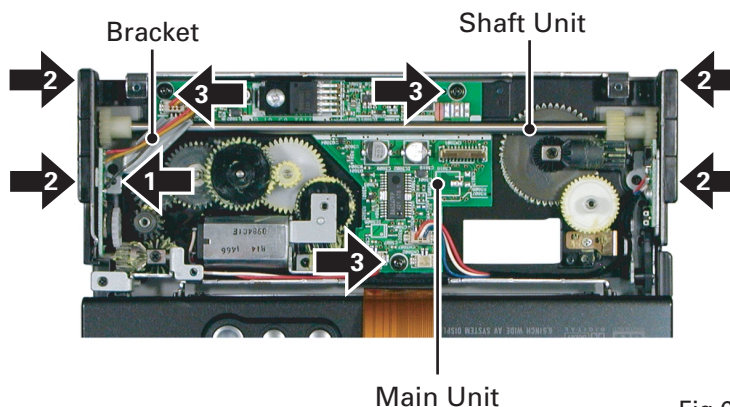


Fig.6

● Removing the Display Assy (Fig.7)

- ➡ **1** Remove the two screws and then remove the Holder.
- ➡ **2** Remove the three screws and then remove the Cover Unit.
- ➡ **3** Remove the four screws.

Disconnect the connector and then remove the Display Assy.

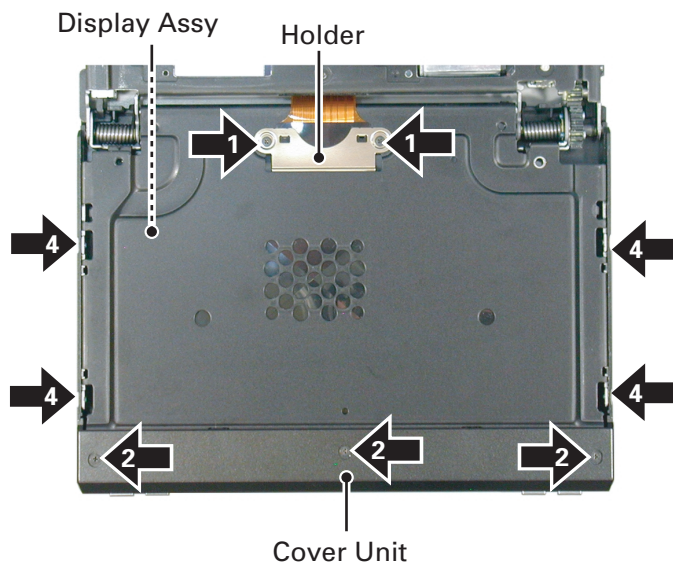


Fig.7

● Removing the Monitor PCB (Fig.8)

- ➡ **1** Straighten the tabs at two locations indicated.
- ➡ **2** Remove the three screws.

Disconnect the connector and then remove the Monitor PCB.

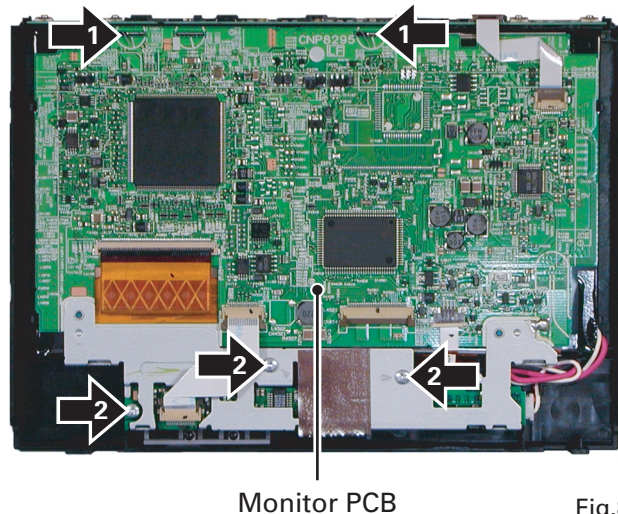
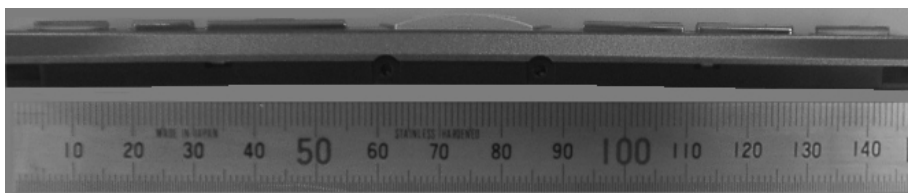


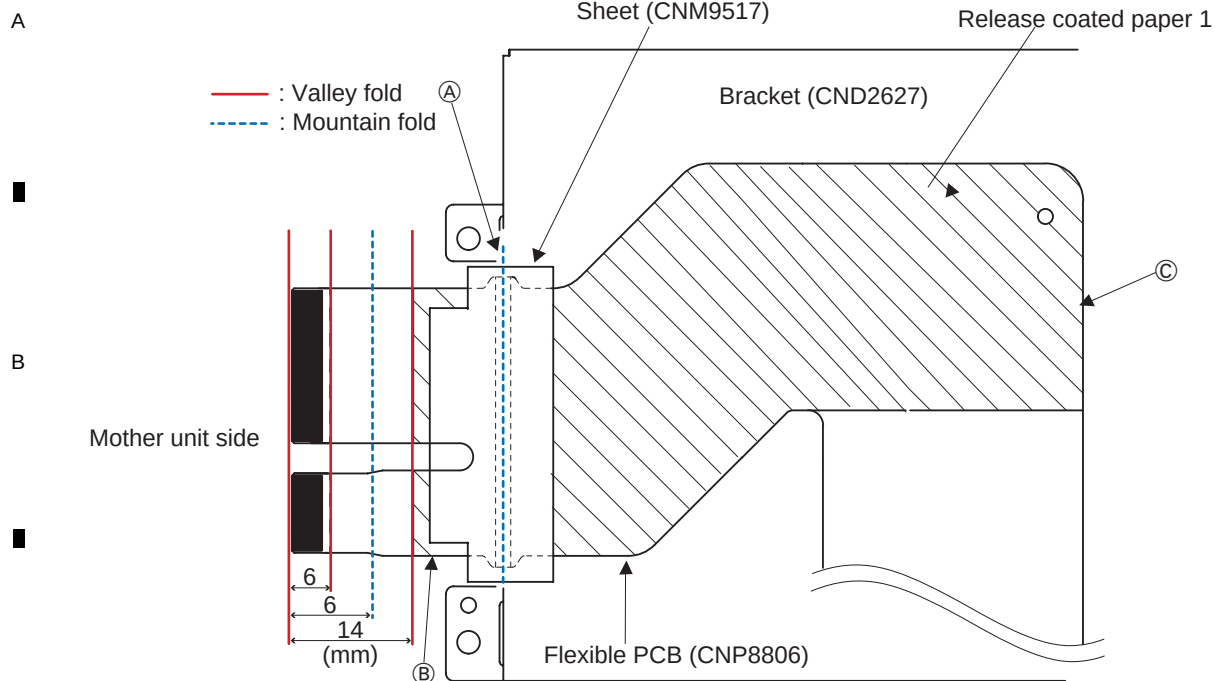
Fig.8

Note:

Tighten the screws with the panel in warped state as shown in the photograph below. Otherwise, it will be difficult to install Detach Grille Assy to Panel Assy.



● Exchanging Flexible PCB (CNP8806)



1. When exchanging a flexible PCB (CNP8806), fold the PCB as indicated in the upper figure.

2. Connect the mother unit side of the flexible PCB to the connector of the mother unit.

3. Remove release (B) part of coated paper of the flexible PCB.

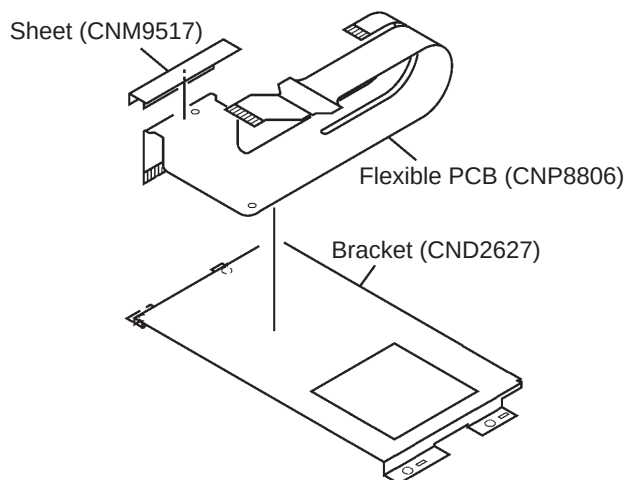
4. Paste (A) part of the flexible PCB along the corner of the bracket (CND2627).

5. Paste (C) part of the flexible PCB on the bracket.

6. Paste the sheet (CNM9517) according to (A) part of the flexible PCB.

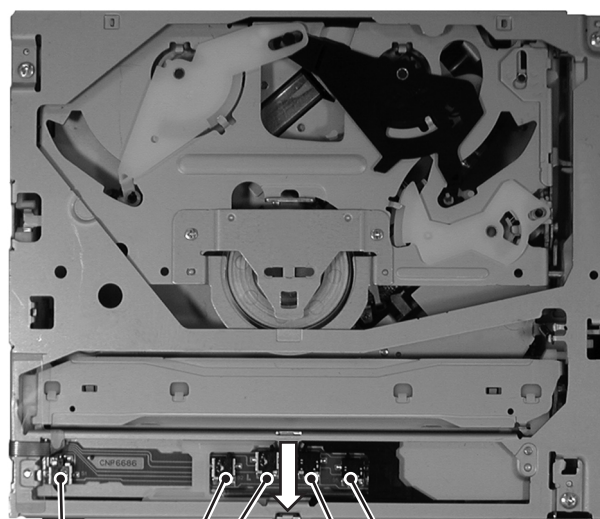
If the flexible PCB and the sheet are not contacted at this time, a monitor part will get damaged or a shutter mechanism will get hung up. Make sure that the flexible PCB and the sheet contact a bracket.

In addition, since adhesive strength becomes weak, do not use again the sheet removed once.



● Precautions on handling the mechanism module

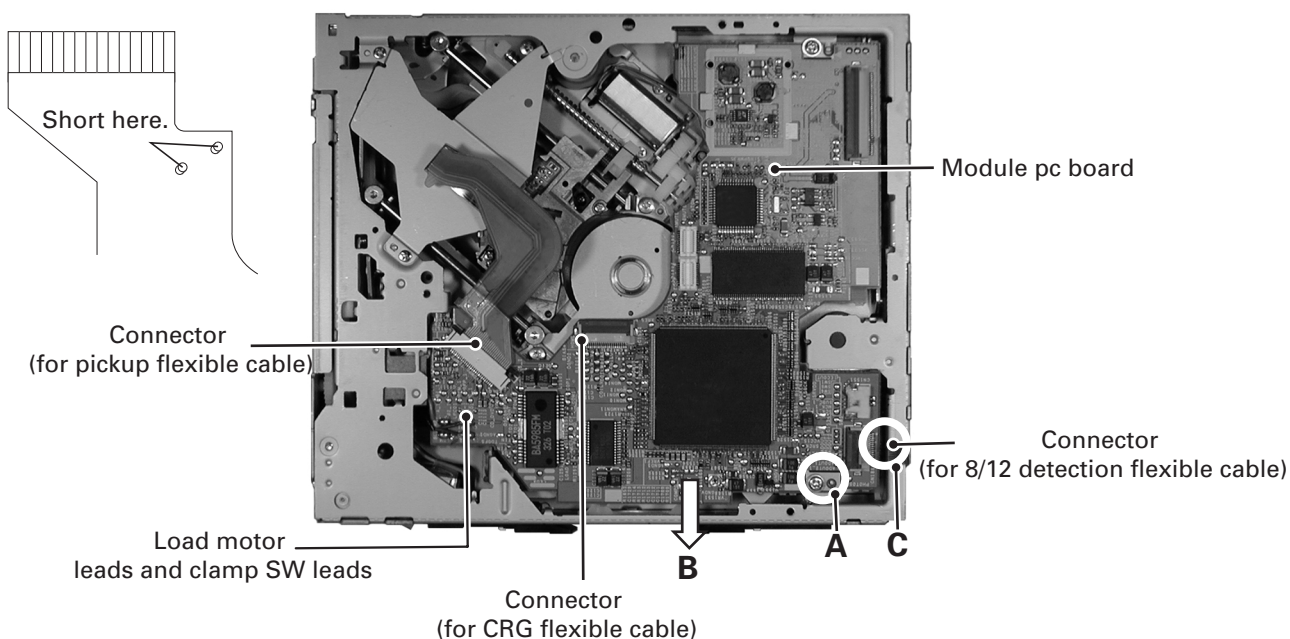
1. Hold the upper and main frames.
2. Do not hold the front portion of the upper frame. It is a delicate part.
3. Do not touch the switches on the top panel.
4. Be careful not to catch the flexible cables.



Do not touch here. Do not touch here.
Do not hold this delicate portion.

● Removing the module pc board

1. Set the mechanism to the lock position (disc load standby position).
2. Place the mechanism module upside down.
3. Short the two lands on the pickup flexible cable as shown below.
4. Be sure to disconnect the pickup flexible cable and the CRG flexible cable from the connectors to protect them from damages.
5. Remove solder from the load motor leads and clamp SW leads.
6. Loosen the two fixing screws. Lift the position A of the module pc board lightly and move it in the direction B to remove it. Be careful not to damage the flexible cable C.
7. Disconnect the 8/12 detection flexible-cable from the connector.



● Removing the pickup unit

1. Remove the module pc board in accordance with the procedure of "Removing the module pc board."
2. While holding the pickup case, remove the skew screw (main).
3. Lifting the end of the pickup rack, slide the main shaft, and remove the pickup unit.

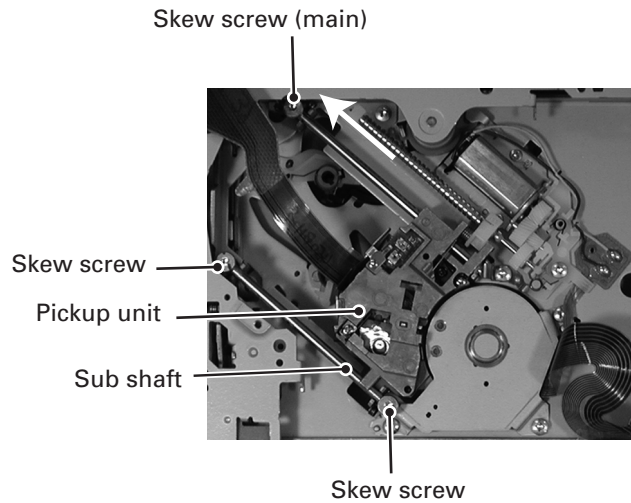
Notes:

Replacing the pickup unit requires the skew adjustment.

Remove glue from both ends of the main and sub shafts, and skew stud.

Do not reuse the old skew screw. Be sure to use a brand-new skew screw supplied with a new pickup unit.

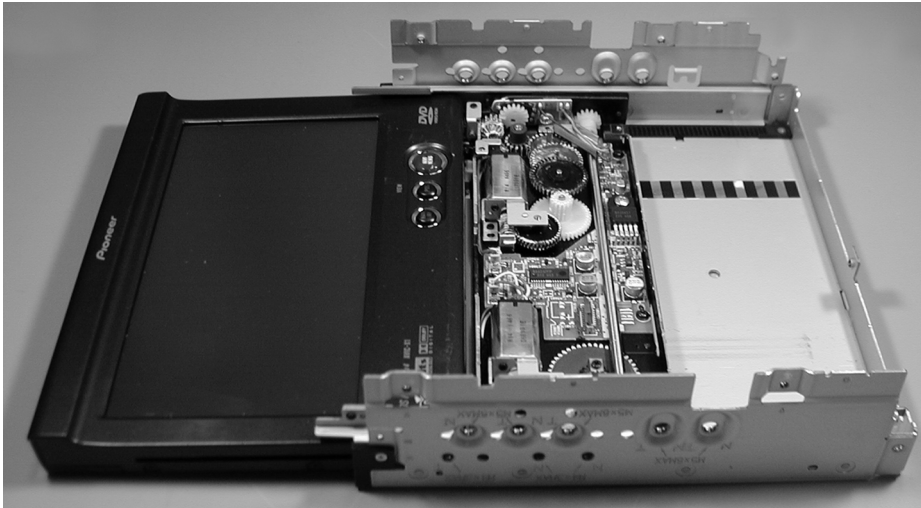
Fix the skew screw with glue (GYL1001) after adjustment.



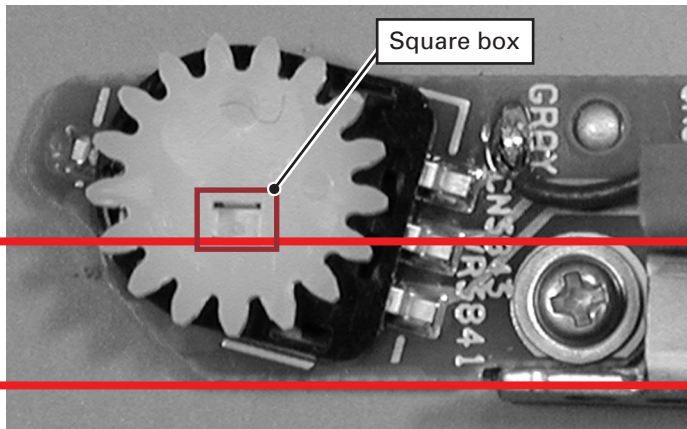
● How to install the Volume Unit to the Drive Unit

When install the Volume Unit, adjust the positioning of the rotating angle of the gear.

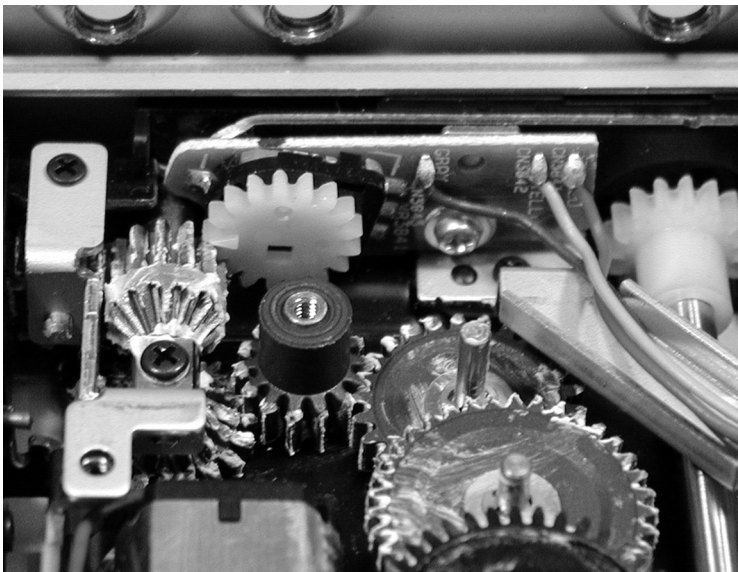
1. Set the Monitor Unit horizontally with the Main Unit of the Drive Unit.



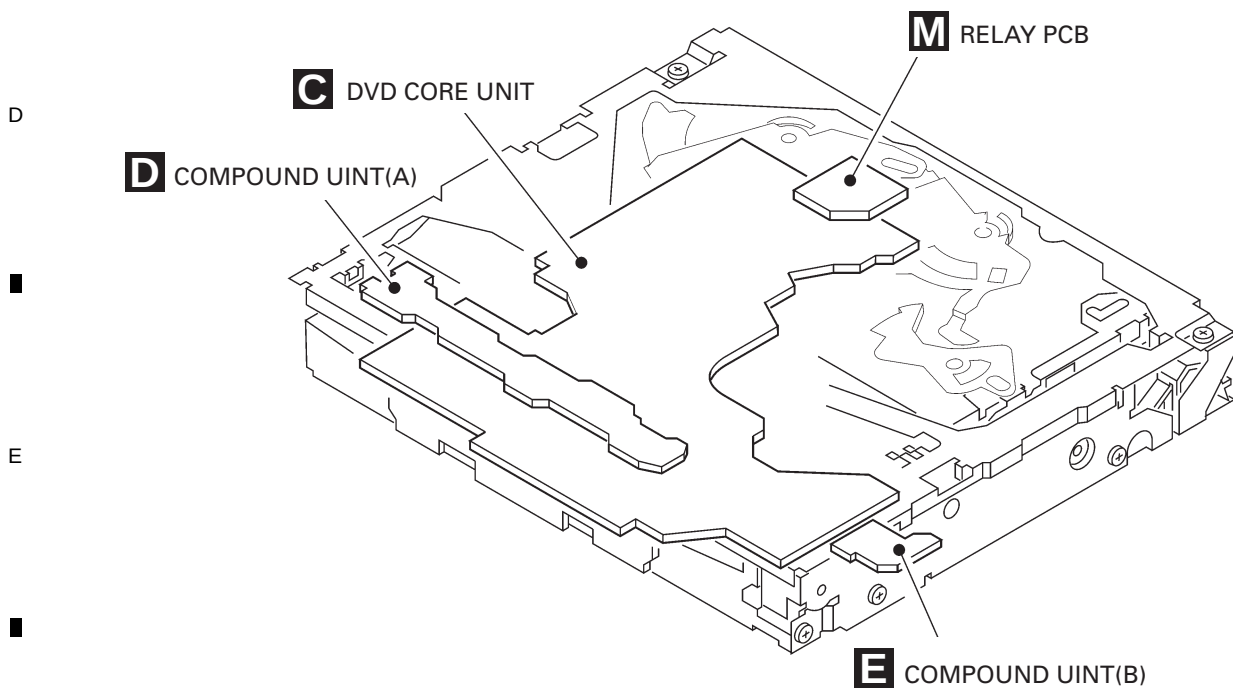
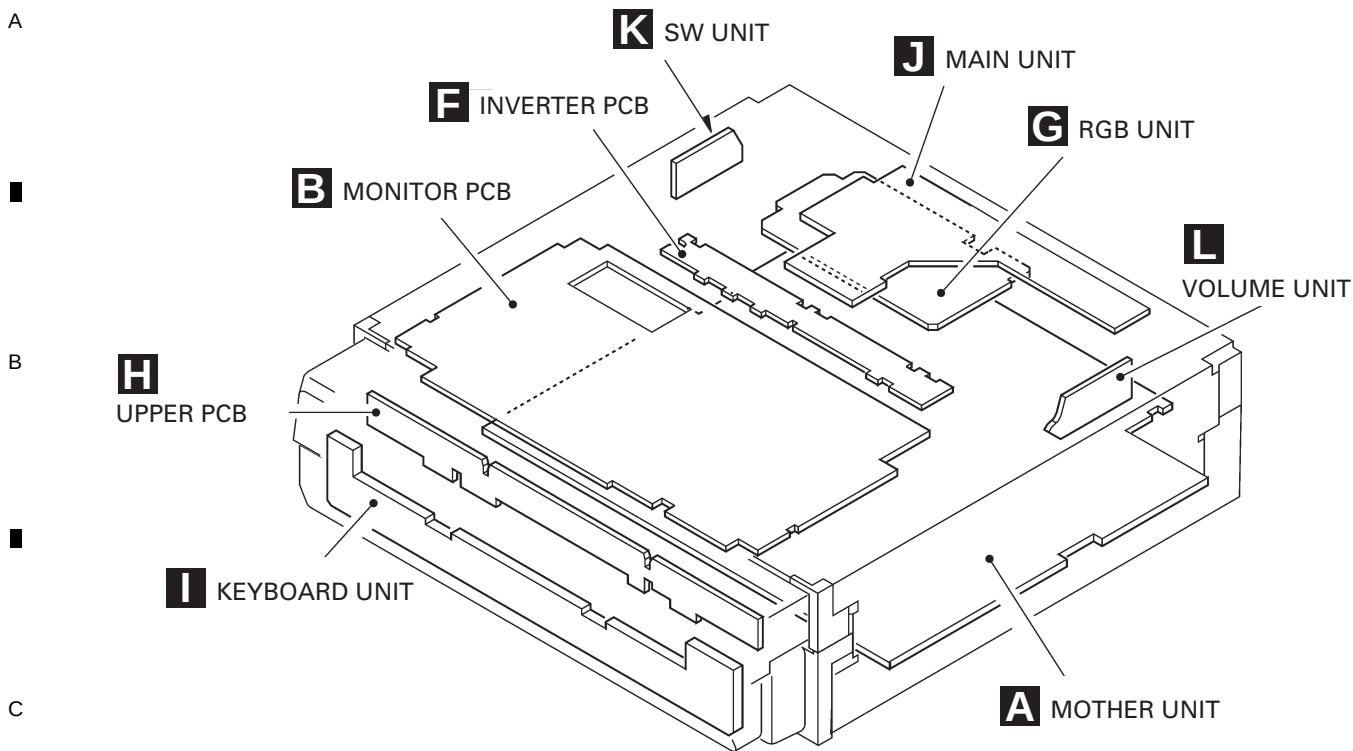
2. When install the gear unit, rotate the gear by hand until the square box of the gear keeps in a horizontal position like the figure below.



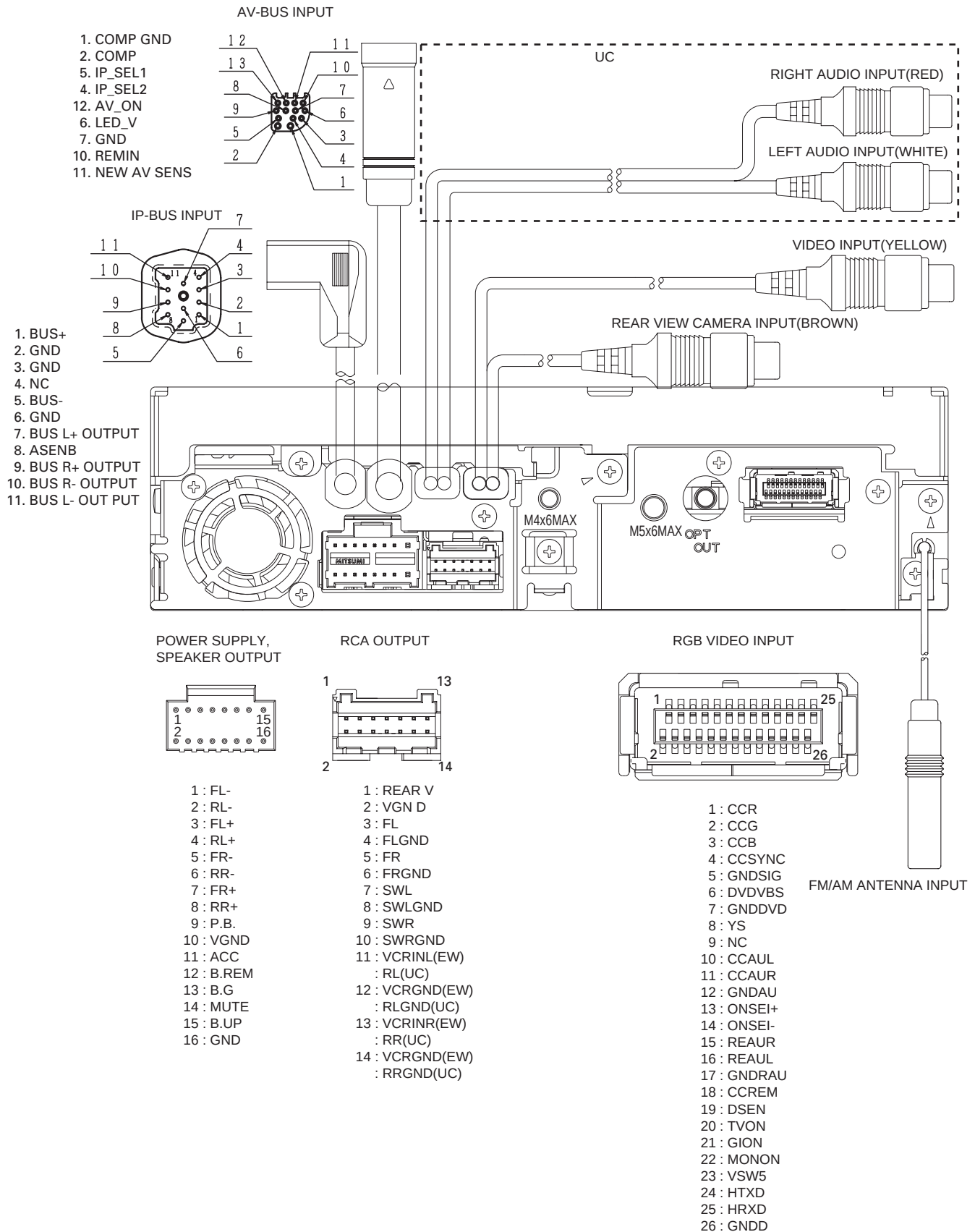
*Gap of one teeth is acceptable.



7.1.2 PCB LOCATIONS



7.1.3 CONNECTOR FUNCTION DESCRIPTION

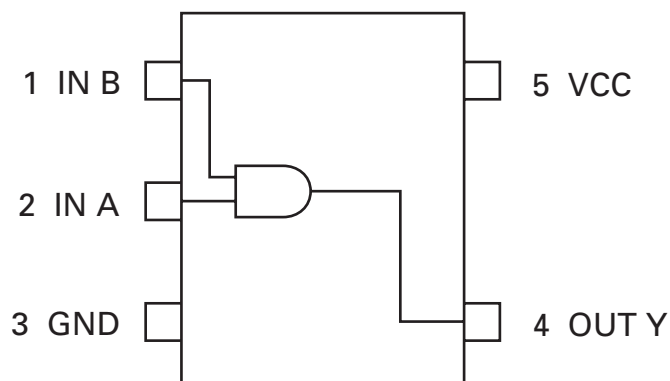


7.2 IC

TC7SET08FUS1	TC7SET04FUS1	OZ961ISN	SM8707LV
TC7SH08FUS1	TC74VHC04FTS1	PEG087A	TC74LCK16373AFT
NJM2136V	BD6171KV	K4S283232E-TC75	PE5401A
S-818A35AUC-BGP	S-1131B25UC-N4K	NJM2140R	PD6516A
NJM2388F84	S-1131B15UC-N4A	TC7WH157FU	S-L2980A50MC-C7J
TC74VHC08FTS1	TC7SH02FUS1	R1130H501B	LTC3411EMS
PE5484A	TC7SH32FUS1	SM8707LV	TC7SZ125FU
PE5485A	S-93C56BD0I-J8	TC74LCX16373AFT	MN35104UB
TC90A96AFG			

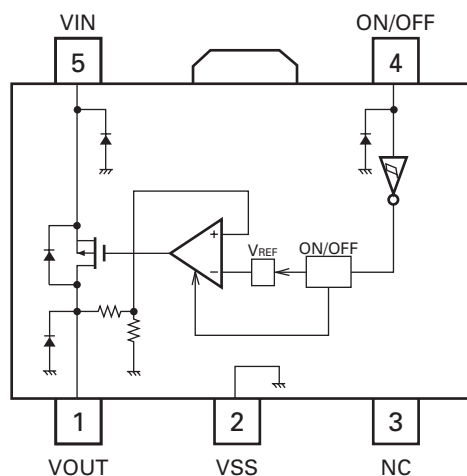
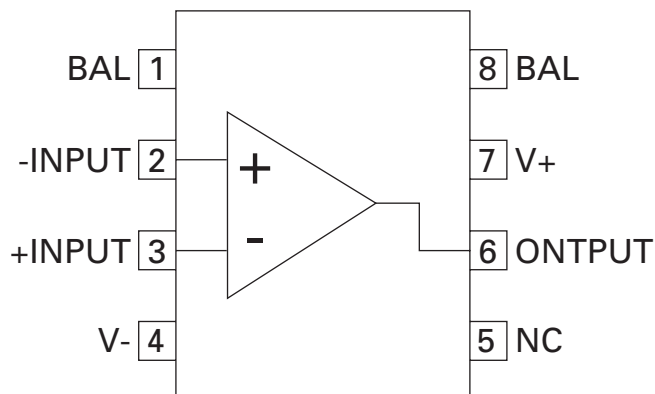
*TC7SET08FUS1,TC7SH08FUS1

IC's marked by * are MOS type.
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

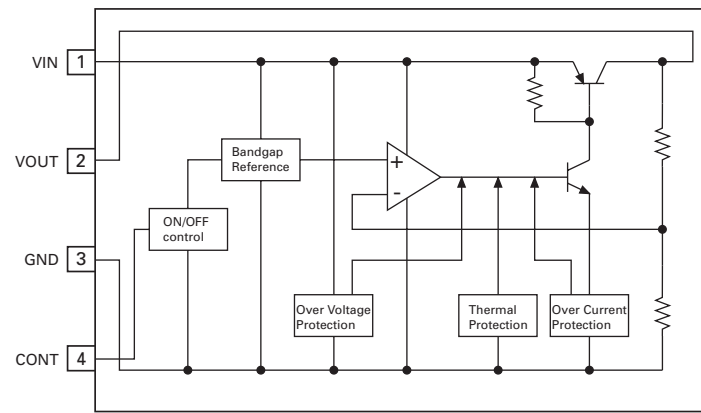


*NJM2136V

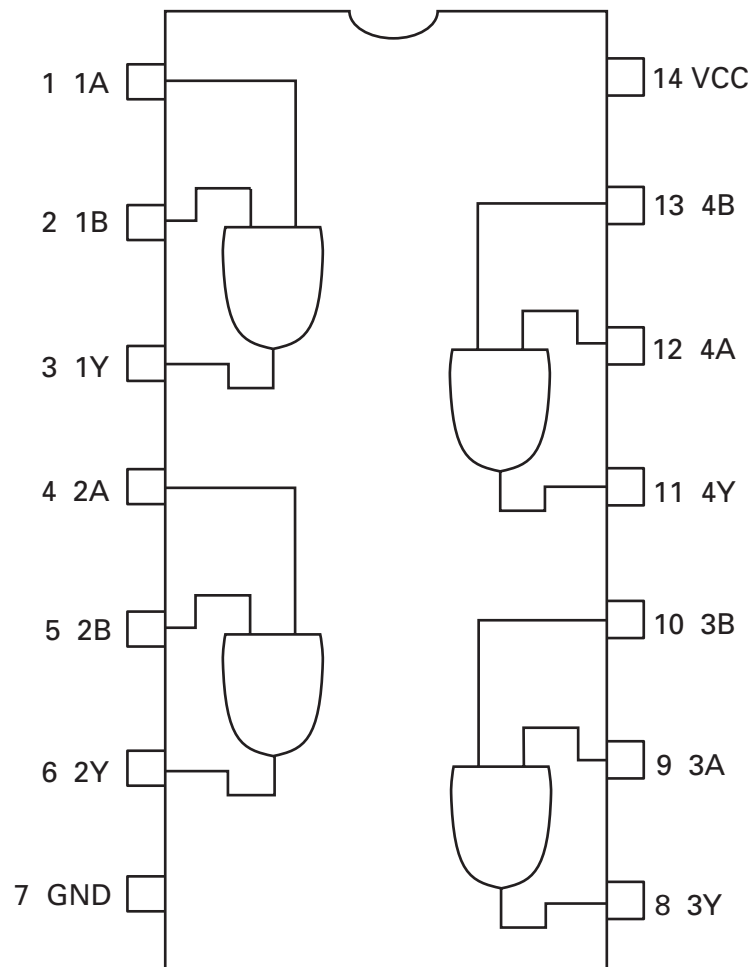
S-818A35AUC-BGP



NJM2388F84



TC74VHC08FTS1



●Pin Functions(PE5484A(EW),PE5485A(UC))

Pin No.	Pin Name	I/O	Function and operation
1	NC		Not used
2,3	MODEL0,1	I	Model select input
4	NC		Not used
5	PORTGND0		Port GND
6	ROMCS	O	ROM Chip select output
7	ROMCLK	O	ROM Clock output
8	ROMDATA	I/O	ROM Data Input/output
9	VDT	O	Electronic volume:Data output
10	VCK	O	Electronic volume:Clock output
11	FRONTMUTE	O	Front Mute output
12	VST	O	Electronic volume:Strobe output
13	MTRPW	O	FLAP Motor power supply control output
14	MTRSEL	O	FLAP motor control output
15	MTRS	O	FLAP Motor speed control output
16	MTR1	O	FLAP angle motor control signal output
17	MTR2	O	FLAP position motor control signal
18	SNSPW	O	FLAP sense power supply output
19	PUSHSW	I	FLAP LIFE sense switch input
20	DEGOSW	I	FLAP monitor angle 0 sense input
21	LIFTPL	I	FLAP lift pulse input
22	PORTVDD0		Port power supply
23	RDT	I	RDS data input (EW model)
24	RDS57K	I	RDS 57kHz input (EW model)
25	RDSLK	I	RDS signal input (EW model)
26	RECIVE	O	Not used
27,28	NC		Not used
29	ACCPW		ACC power control output
30	AMPPW	O	Amp power control output
31	SYSPW	O	
32	VPW	O	Video power control output
33	DDCCNTL	O	DC/DC converter control output
34	DLED	O	Anti-theft LED output
35	ILMGRN	O	Green illumination output
36	PCL	O	System clock output
37	GND0		GND
38	CPUREG		Filter capacitor connected
39	VDD0		Power supply
40	RESET	I	System reset input
41	VPP		Power supply for flash ROM
42	TSI	I	Test data input
43	NC		Not used
44	TCK	I	Test data clock input
45	LDET	I	RDS PLL signal (EW model)
46	TUNPDI	I	TUNER PLL data input
47	TUNPDO	I/O	TUNER PLL data input/output
48	TUNPCK	I/O	TUNER PLL clock input/output
49	NC		Not used
50	RCAMUTE	O	RCA REAR mute output
51,52	VSELIN1,2	I	VSEL input
53	AVONIN	I	AV-BUS AV video sense input
54,55	NC		Not used
56	TESTIN	I	Test mode input
57	RCK	I	RDS data clock (EW model)
58	PRGON	I	System microcomputer program mode input
59	VPPON	O	VPP ON/OFF output
60	PORTVDD1		Port power supply

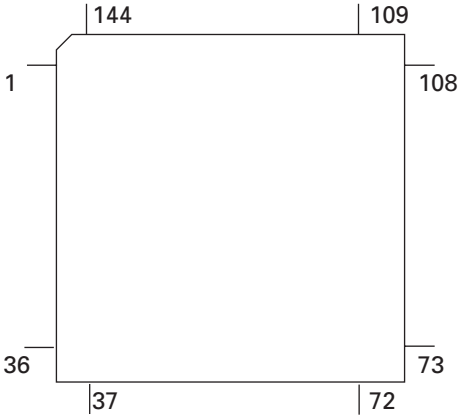
Pin No.	Pin Name	I/O	Function and operation
61	PRGSW	I	System microcomputer programing mode input
62	PRGRST	O	Display microcomputer programing mode reset output
63-65	NC		Not used
66	CILM	O	Flap illumination output
67	ILMRED	O	Red illumination output (EW model)
68	BEEP	O	BEEP output
69	BSENS	I	Backup sense input
70,71	XT2,1		Sub clock oscillator connect
72	GND2		GND
73,74	X1,2		Main clock oscillator connect
75,76	NC		Not used
77,78	COOLCNT1,2	O	Fan control output1,2
79,80	NC		Not used
81	CONTBIN	I	Backup off input
82	NC		Not used
83	DSSENS	I	Detach sense input
84	SDA	I/O	AVselector data input/output
85	NC		Not used
86	SCL	O	AV selector clock output
87	ASENBO	O	Slave ACC sense output
88	IPPW	O	IPBUS driver power supply control output
89	NC		Not used
90	IERX	I	IPBUS data input
91	IETX	O	IPBUS data output
92	PORTGND1		Port GND
93-95	NC		Not used
96	ASENS	I	ACC sense input
97-99	NC		Not used
100	TUNPCE	O	TUNER PLL chip enable output
101	TUNPCE2	O	TUNER PLL chip enable output 2
102	PORTVDD2		Port power supply
103	CONTVDD	O	DVD Mechanism modul digital power control output
104	CONTVDD8	O	DVD Mechanism modul motor power control output
105	DREM	O	NAVI Reboot remote control output
106	REMUTE	O	NAVI remote control mute output
107	RXMOM	I	Display microcomputer data input
108	TXMON	O	Display microcomputer data output
109	SWVDD	O	Display microcomputer power supply output
110	NC		Not used
111	RXMS3	I	DVD Mechanism modul data input
112	TXMS3	O	DVD Mechanism modul data output
113	IRQPWR	O	DVD Mechanism modul backup power output
114	XRESET	O	DVD Mechanism modul mechanism CPU reset output
115,116	NC		Not used
117	RXNAV	I	NAVI data input
118	TXNAV	O	NAVI command output
119	RGBARI	I	RGB navigation ON sense input
120	NC		Not used
121	NMIXCNT	O	Voice guide mute output
122	MUTE	O	Mute output
123	NC		Not used
124	AMPMUTE	O	AMP mute output
125,126	NC		Not used
127	TELIN	I	TEL mute input
128	VDD1		Power supply
129	PBSENS	I	Parking brake sense input
130	BGSSENS	I	Back gear sense input

A

Pin No.	Pin Name	I/O	Function and operation
131	GND1		GND
132-134	NC		Not used
135	TUNSL	I	TUNER signal level input
136	NC		Not used
137	ANGLEIN	I	Mechanism volume for angle sense input
138,139	NC		Not used
140-142	KEYDTA0-2	I	Key data input0-2
143	ADCVDD		A/D Power supply
144	ADCGND		A/D GND

*PE5484A (EW),PE5485A (UC)

B



C

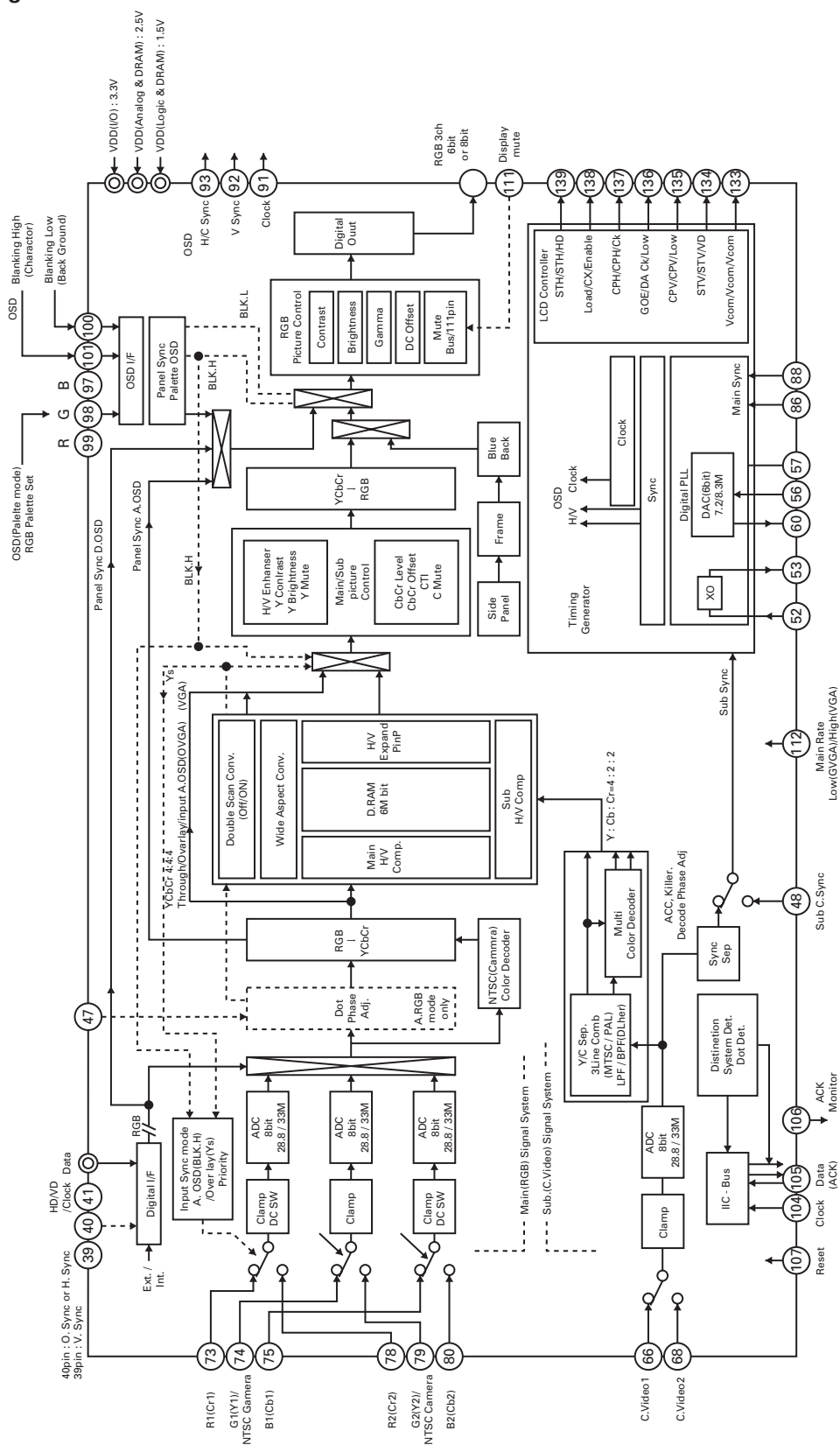
D

E

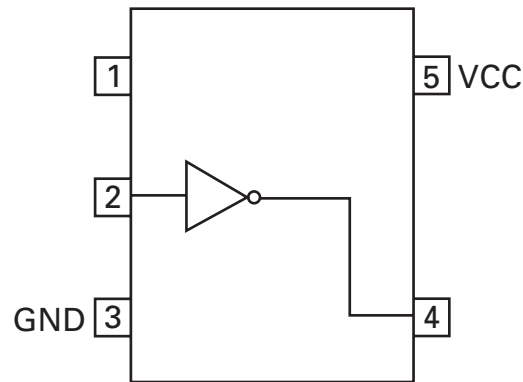
F

F

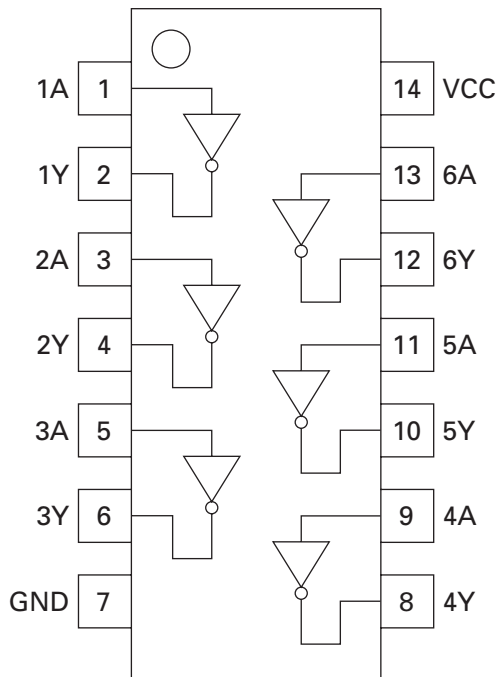
● Block Diagram



TC7SET04FUS1

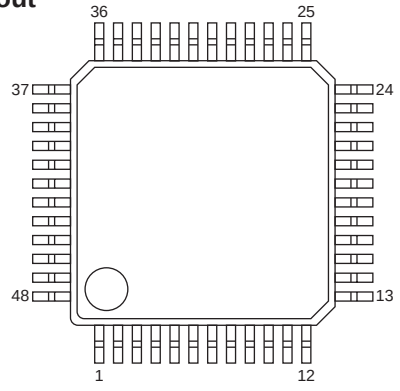


TC74VHC04FTS1

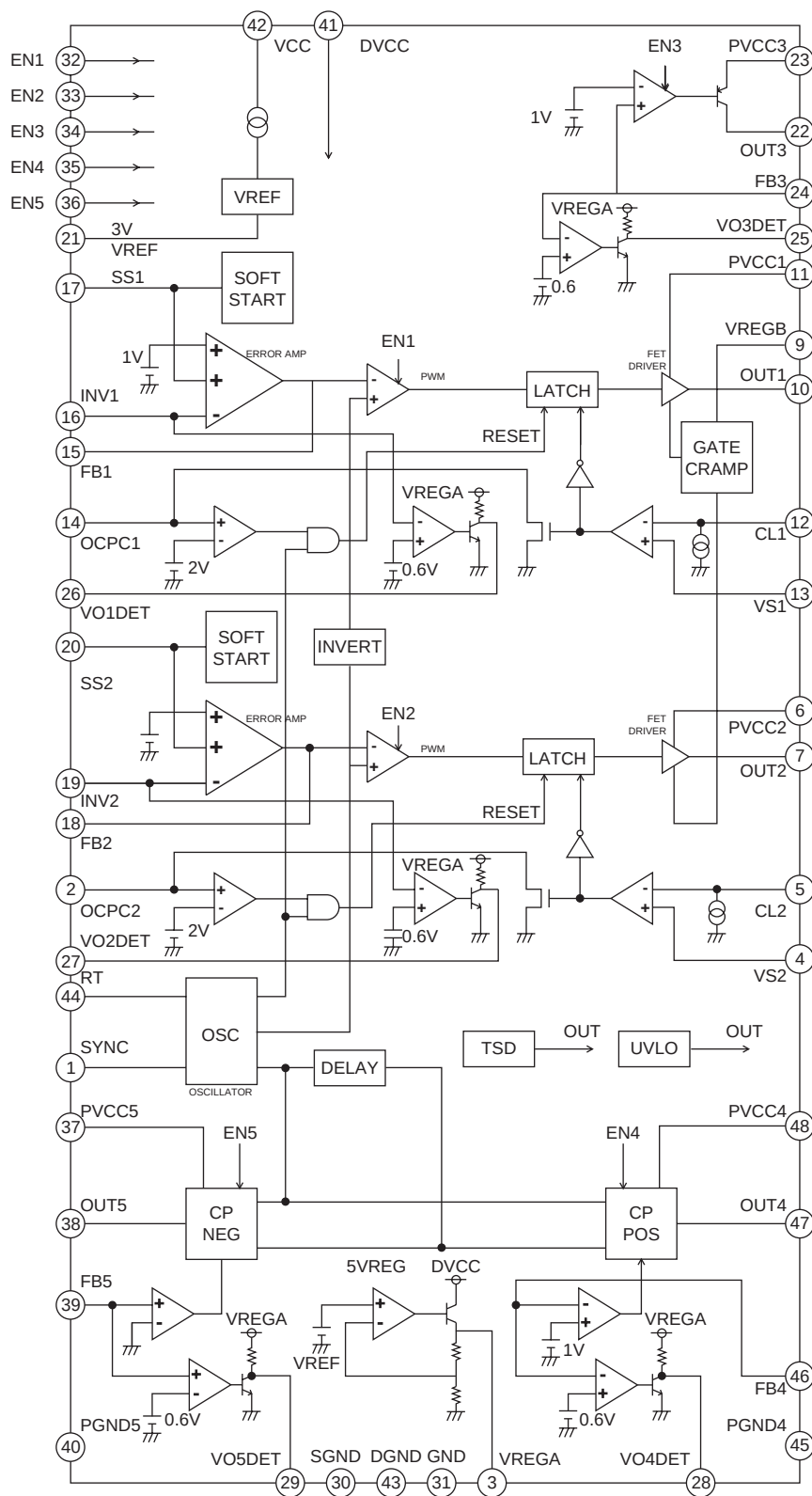


BD6171KV

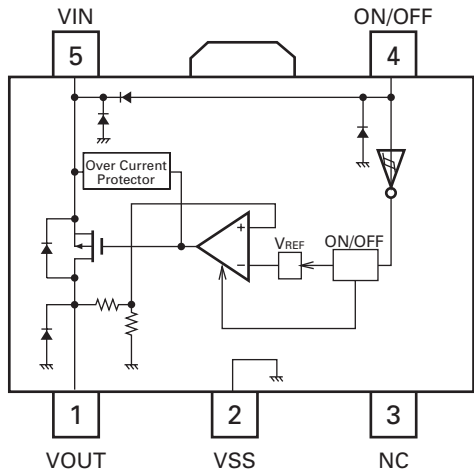
● Pin Layout



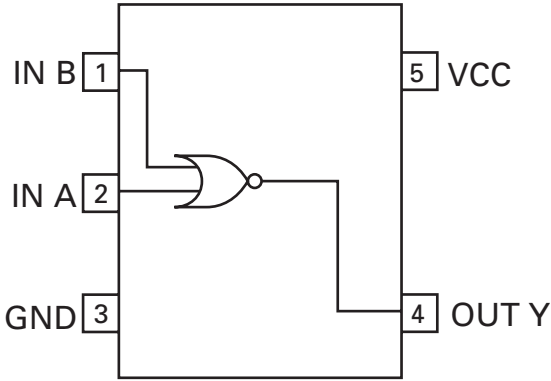
Block Diagram



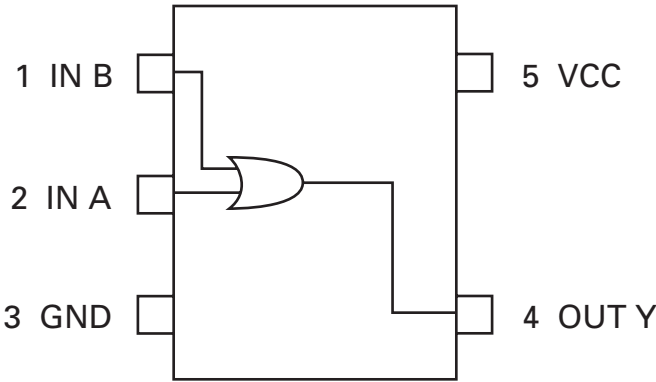
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S-1131B15UC-N4A



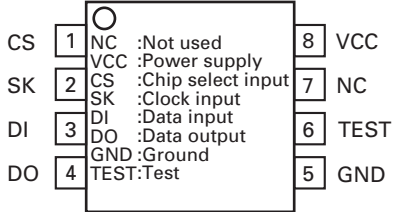
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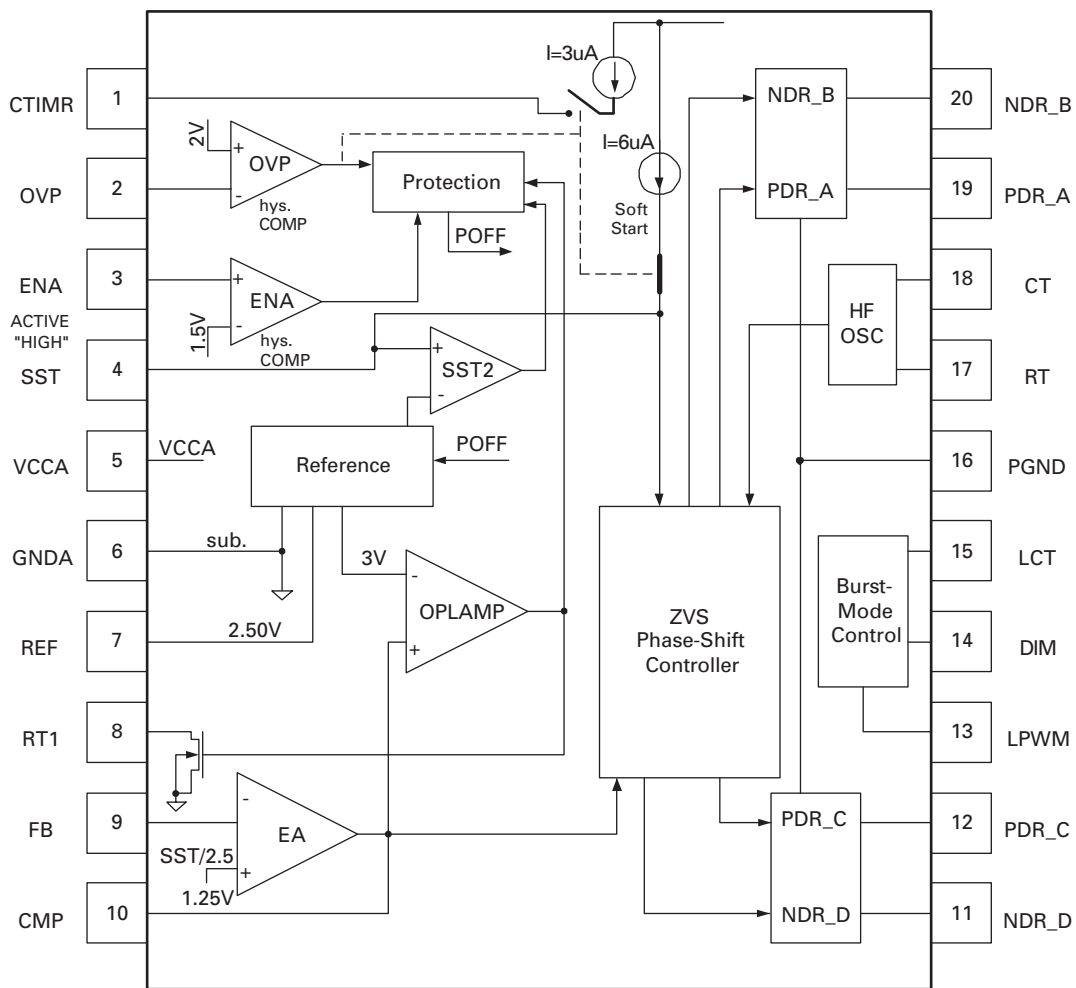
TC7SH32FUS1



S-93C56BD0I-J8



OZ961ISN



● Pin Functions (PEG087A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	VHOLD1	I		Not used
2	HLF1	I		Not used
3	INVBST	O	C	Inverter boost output
4	LD	O	C	COMAC,COMDC latch signal output
5	DI	O	C	COMAC,COMDC data output
6	REMIN	O	C	COMAC,COMDC clock output
7	REMIN	I	C	Remote control signal input
8	BYTE	I		GND connection
9	CNVSS	I		GND connection
10	VDDSENS	I		VDD power supply sense input
11	5060IN	I		50/60Hz input
12	RESET	I		Reset input
13	XOUT	O		Clock output
14	VSS			GND
15	XIN	I		Clock input
16	VCC			Power supply
17	OSDCLK	I		Clock input for OSD
18	NC			Not used
19	YSSTOP	O	C	NAVI over write enable output
20	OSDTOP	O	C	OSD/NAVI over write enable output
21	OSDBLNK	O	C	OSD blanking output
22	NC			Not used
23	MUTE	O	C	2 screens IC mute output
24	DIMMER	O	C	Dimmer pulse output
25	NC			Not used
26	INVPUL	O	C	Inverter pulse output
27	ICRES	O	C	IC reset output
28	SCL	O	C	2 screens IC clock output
29,30	NC			Not used
31	SDA	I/O	C	2 screens IC data input/output
32	OSDR	O	C	OSD analog R signal output
33	OSDG	O	C	OSD analog G signal output
34	OSDB	O	C	OSD analog B signal output
35	KYDT	O	C	Key data output
36	DPDT	I		Display data input
37	TSCK	I		Test mode clock input
38	EPRDI	I		EEPROM data input for adjustment memory
39	EPRDO	O	C	EEPROM data output for adjustment memory
40	NC			Not used
41	EPRCS	O	C	EEPROM chip select output for adjustment memory
42	EPRCK	O	C	EEPROM clock output for adjustment memory
43	TESTIN	I		Chip test input
44-50	NC			Not used
51	FSCWIDE	I		Not used
52	LCD76	I		LCD size select (H:7inch, L:6.5inch) input
53	EPRCV	I		EEPROM adjustment input
54-61	NC			Not used
62	HSYNC	I		HSYNC signal input for OSD
63	NC			Not used
64	VSYNC	I		VSYNC signal input for OSD
65,66	NC			Not used
67,68	KS2,1	I/O	C	Key strobe input/output
69-72	KD4-1	I	C	Key data input
73,74	NC			Not used
75	STEST2	I		Touch panel test mode input

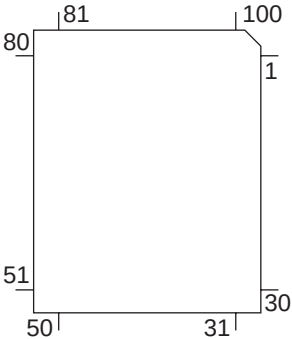
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Pin No.	Pin Name	I/O	Format	Function and Operation
76	NC			Not used
77	SELFRST	I		Self write reset input
78,79	NC			Not used
80	PNLXV	O	C	Touch panel:X direction sense output
81	MFLPW	O	C	Back light power supply control output
82	MVIPW	O	C	Video power supply control output
83	ROMCS	O	C	EEPROM chip select output
84	ROMCK	O	C	EEPROM clock output
85	ROMDATA	I		EEPROM data input
86	EPRPST	I		EEPROM initialize input for memory adjustment
87	STEST1	I		Monitor mode input
88	EPRTST	I		EEPROM set mode input for memory adjustment
89	TEMPSEN	I		Temperature sense input for inverter boost
90	PNLYV	O	C	Touch panel:Y direction sense output
91	PNLVD	O	C	Touch panel:sense output
92	PNLADY	I		Touch panel:X data input
93	PNLADX	I		Touch panel:Y data input
94	LSEN	I		Brightness on the outside sense input
95	VHOLD2	I		Not used
96	HLF2	I		Not used
97	CVIN2	I		Not used
98	TVSETB	I		Test mode input
99	VCCE			Power supply
100	CVIN1	I		Not used

B

C

*PEG087A

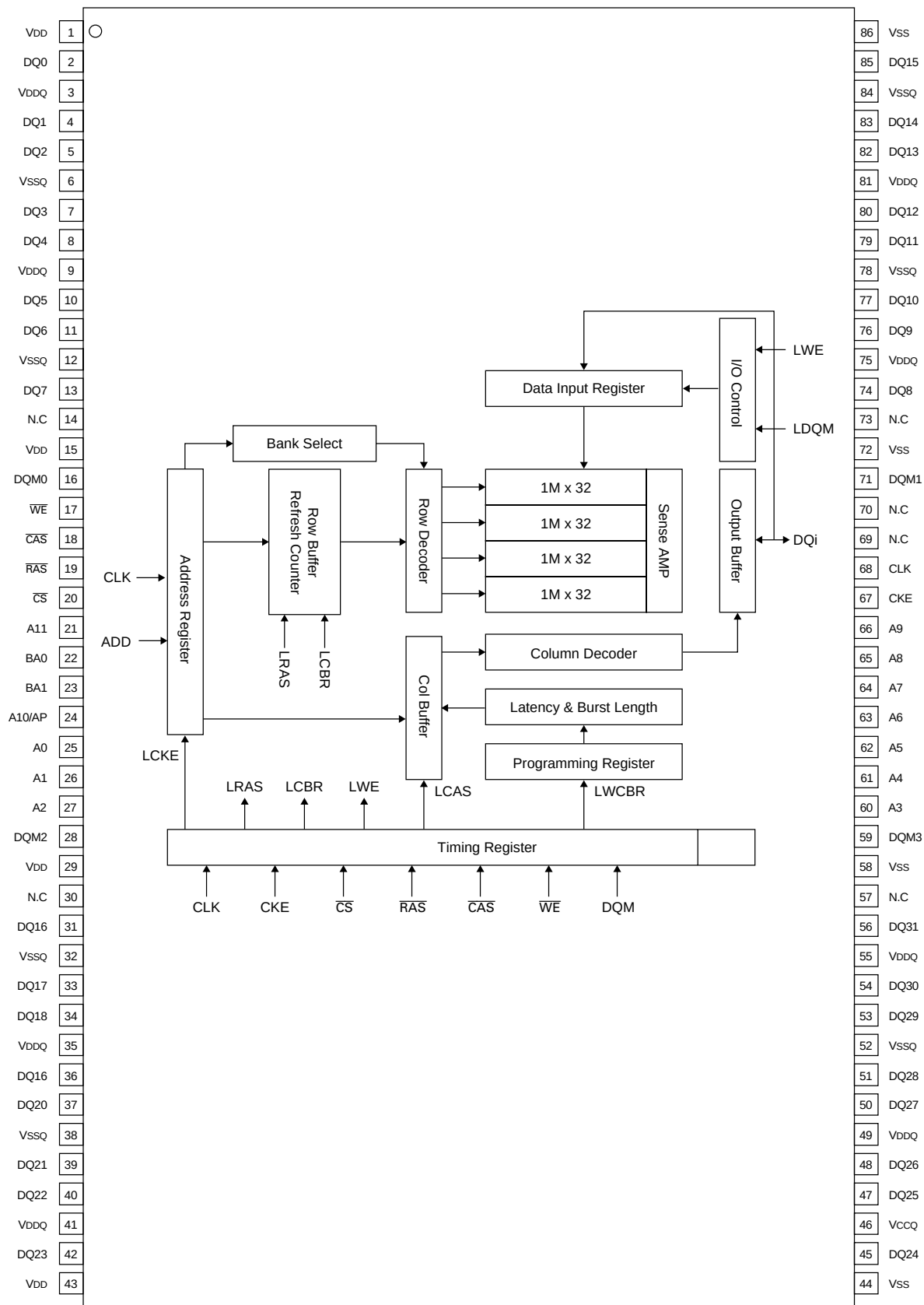


Format	Meaning
C	C MOS

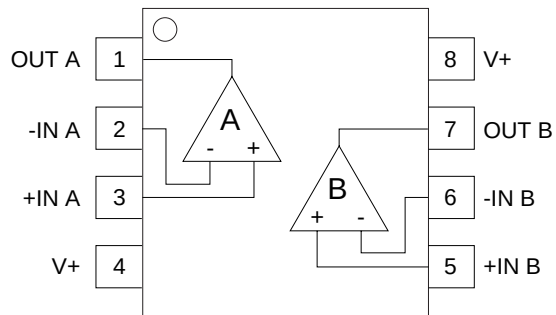
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E

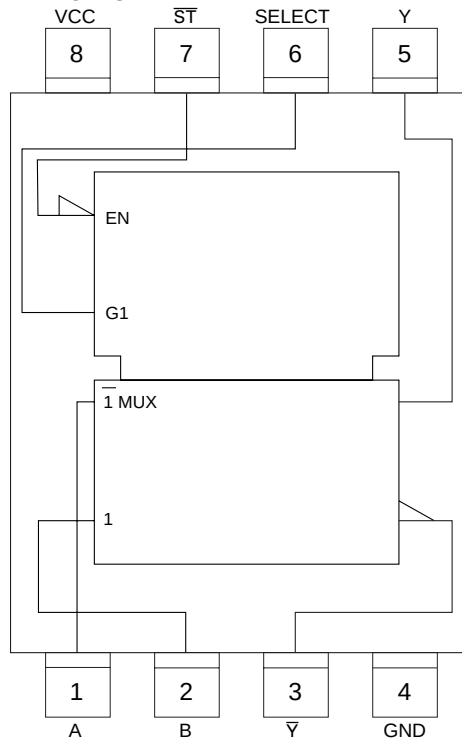
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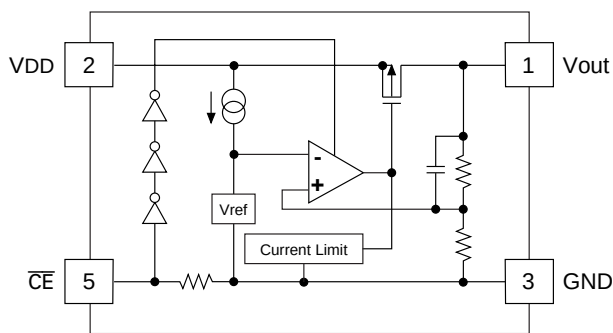
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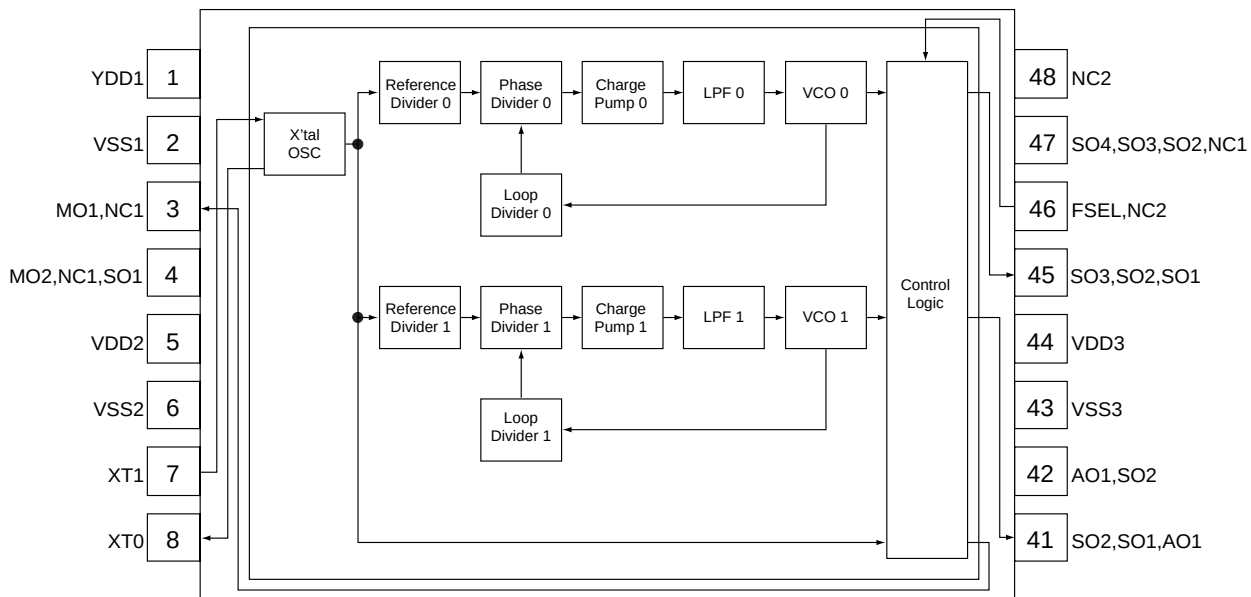
*TC7WH157FU



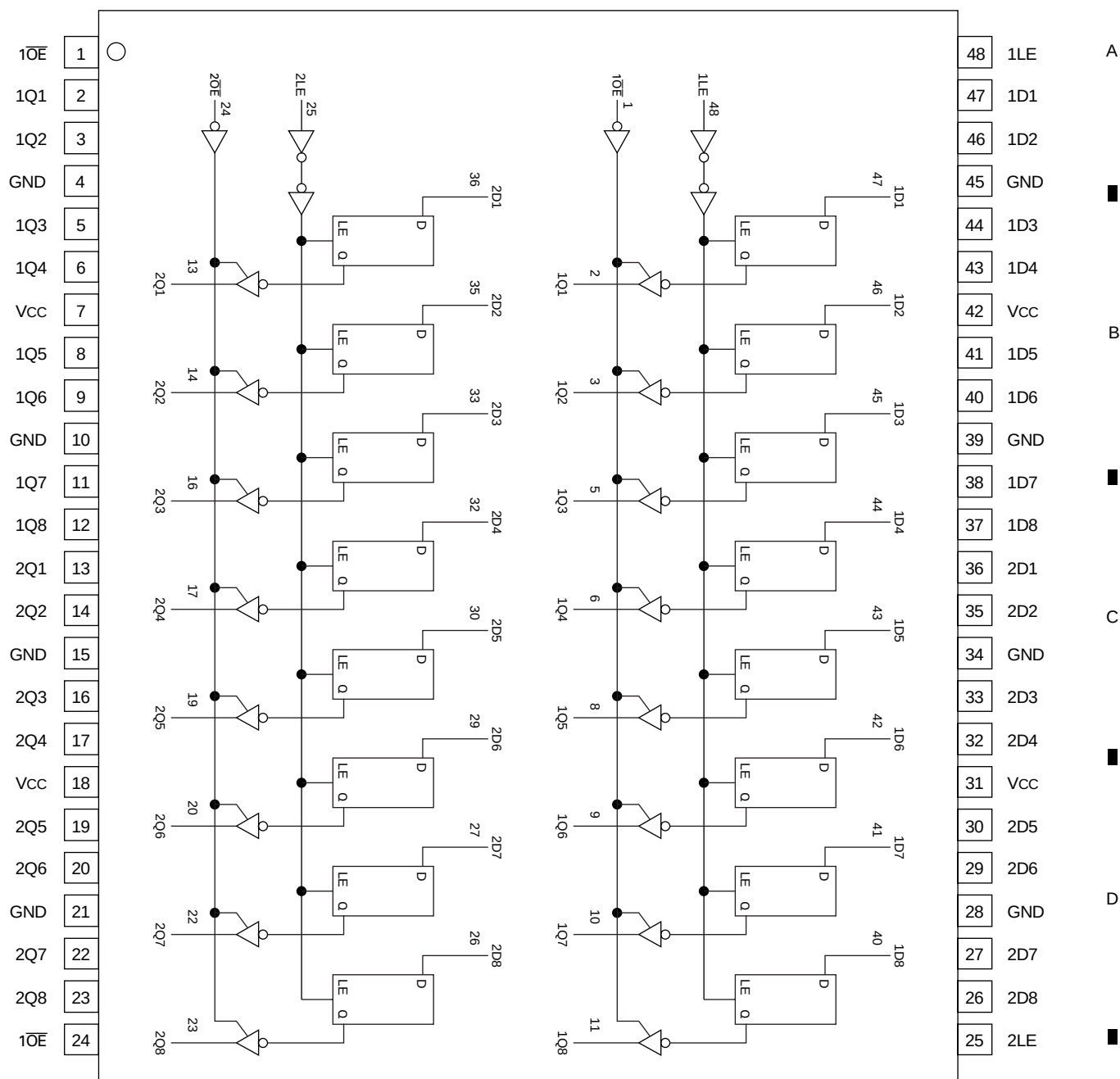
*R1130H501B



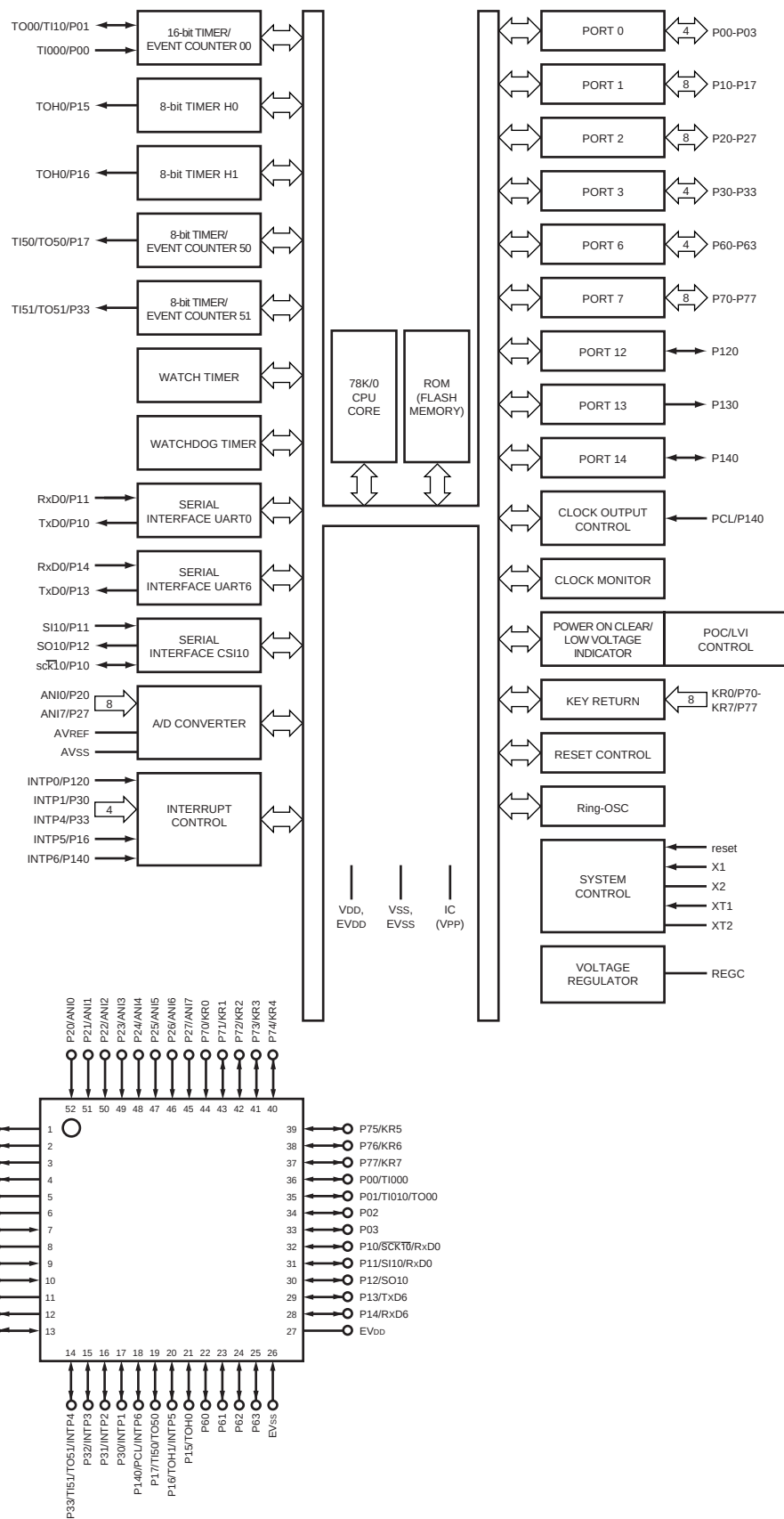
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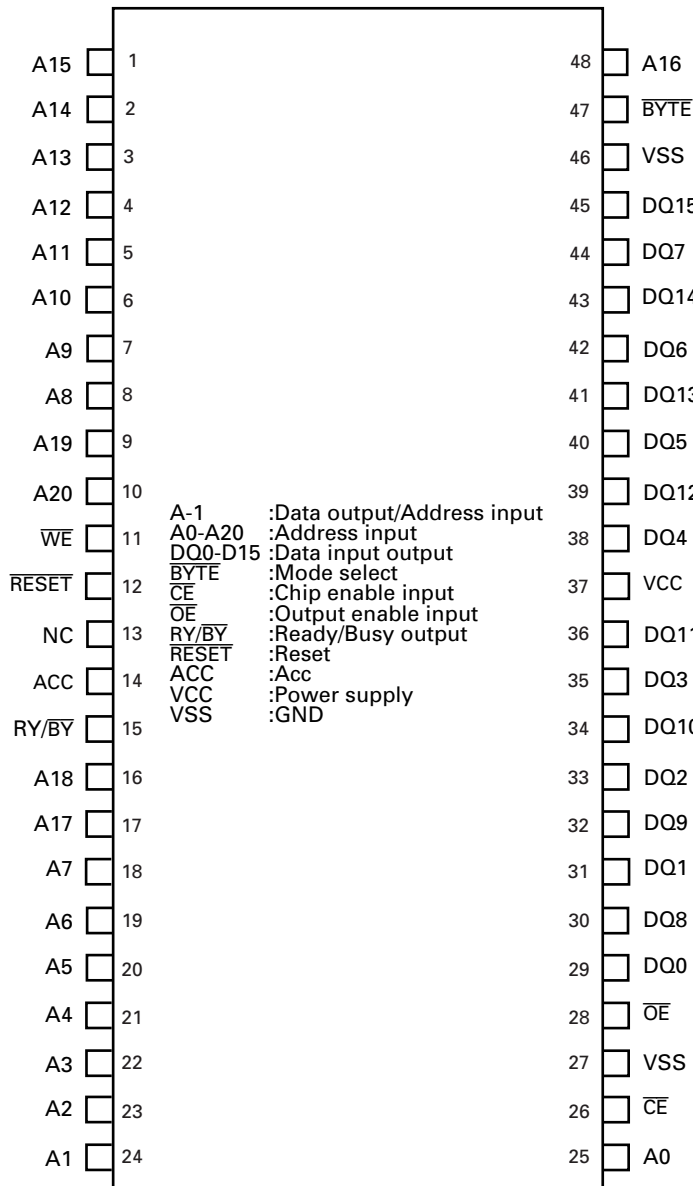
*TC74LCX16373AFT



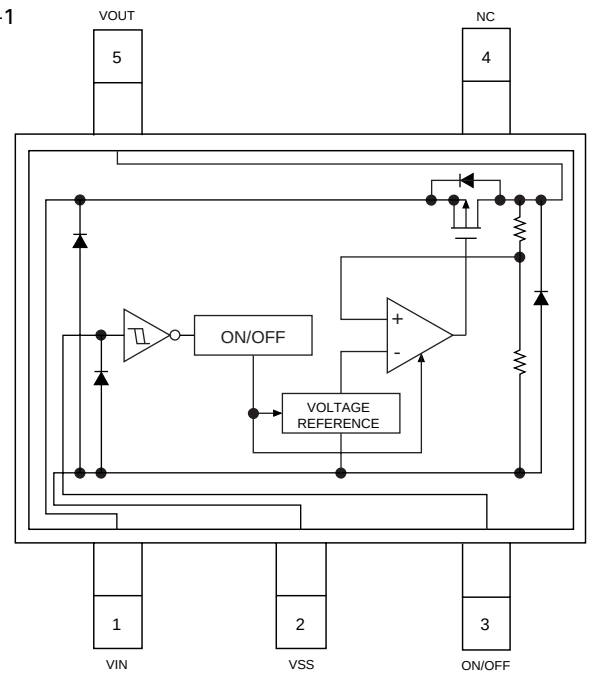
*PE5401A



*PD6516A

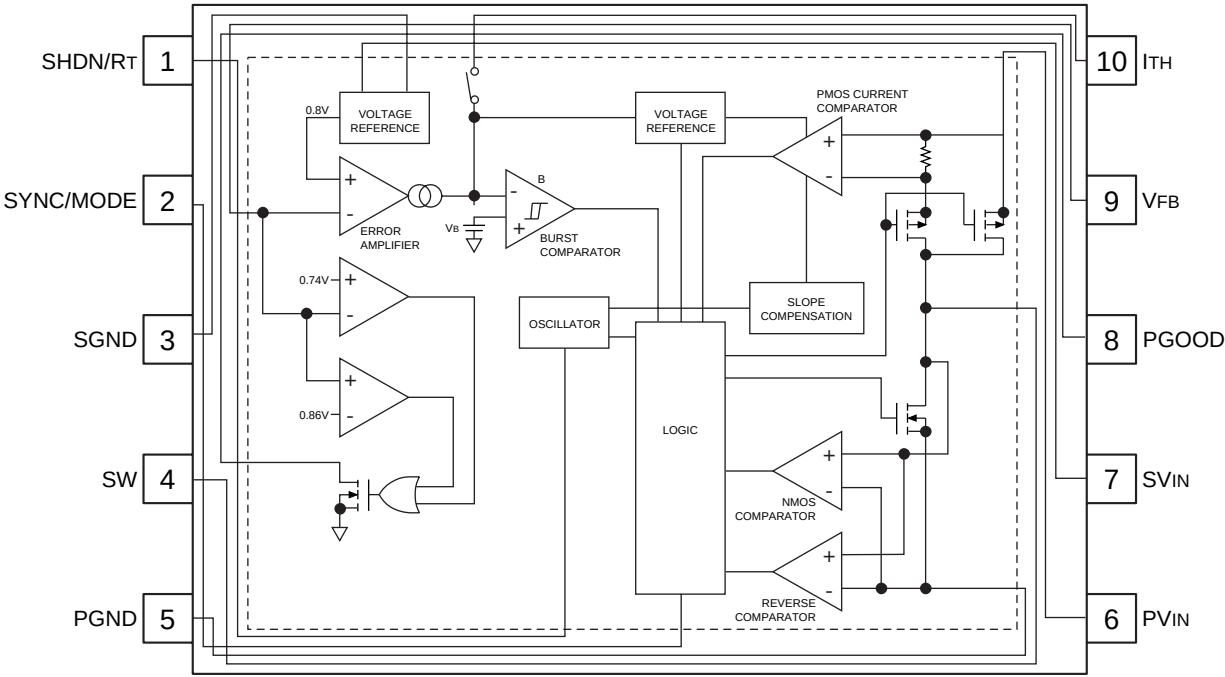


*S-L2980A50MC-C7J



*LTC3411EMS

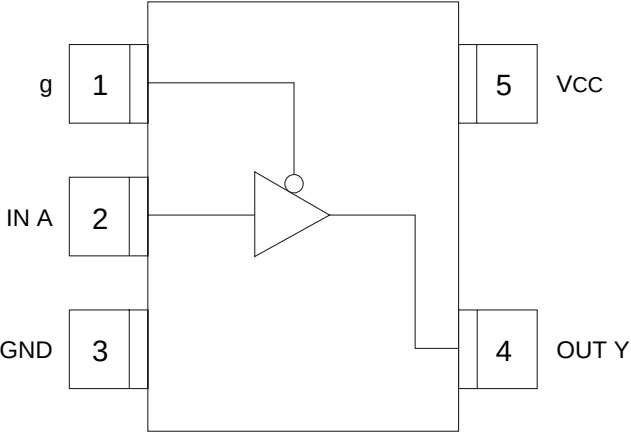
A



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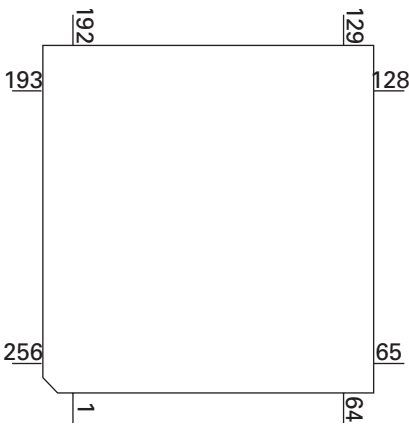
C

*TC7SZ125FU



D

*MN35104UB



E

F

● Pin Functions(MN35104UB)

Pin No.	Pin Name	I/O	Function and Operation
1	VDD33		IO power supply
2,3	MDQ	I / O	SDRAM data
4	VSS		GND
5,6	MDQ	I / O	SDRAM data
7	VDD33		IO power supply
8-10	MDQ	I / O	SDRAM data
11	VSS		GND
12,13	MDQ	I / O	SDRAM data
14	VDD33		IO power supply
15	VDD15		Power supply
16	VSS		GND
17	EXADR	I / O	Memory address
18	NEXWE	O	Memory write enable
19-22	EXADT	I / O	Memory address data
23	VDD33		IO power supply
24	VSS		GND
25,26	EXADR	I / O	Memory address
27,28	EXADT	I / O	Memory address data
29	VDD33		IO power supply
30	VSS		GND
31,32	EXADT	I / O	Memory address data
33	NEXCE	O	Memory chip select
34-37	EXADT	I / O	Memory address data
38,39	EXADR	I / O	Memory address
40,41	EXADT	I / O	Memory address data
42	VD33		IO power supply
43	VSS		GND
44,45	EXADT	I / O	Memory address data
46	NEXOE	O	Memory output(Read) enable
47	P15	I / O	Memory address bus
48	P14	I / O	The flag of transmitting end
49	P13	I / O	The flag of transmitting start
50	P12	I / O	Serial clock
51	P11	I / O	Serial output data
52	P10	I / O	Serial input data
53	P9	I / O	Serial clock
54	P8	I / O	Serial output data
55	P7	I / O	Serial input data
56	VDD3		IO power supply
57	MMOD	I	Test mode setting
58	VSS		GND
59	P6	I / O	Serial clock

A

B

C

D

E

F

Pin No.	Pin Name	I/O	Function and Operation
60	P5	I / O	Serial output data
61	P4	I / O	Serial input data
62	P3	I / O	Serial clock
63	P2	I / O	Serial output data
64	P1	I / O	Serial input data
65	P0	I / O	Serial clock
66	FG	I	Motor FG
67	VDD15		Power supply
68	NRST	I	Master reset
69	VSS		GND
70-77	DRV	I / O	Servo port
78	DRV8		Servo port
79	VDD33		IO power supply
80	VSS	I / O	GND
81	SCLOCK	I / O	Input clock for debug
82	EXTRG	I / O	I/O trigger for debug
83	SDATA	I / O	I/O data for debug
84	EXTRG	I / O	I/O trigger for debug
85	TRCCLK	I / O	Output trace clock for debug
86-89	TRCDATA	I / O	I/O trace data for debug
90	TRCST	I / O	Output trace status for debug
91	VDD33		Power supply
92	OSCI	I	Front end clock input
93	VSS		GND
94-97	MONI	I / O	Inside monitor
98	VDD15		Power supply
99	VSS		GND
100-103	MONI	I / O	Inside monitor
104	AVDDD	O	Power supply
105	PLFIL1		DRC VCO
106	AVSSD	O	GND
107	PLFIL2	O	DRC VCO
108-110	VREF	I	Reference voltage
111	VC0	I	gm-cEQ
112	RESI	O	gm-cEQ
113	ANAMONI	O	Inside analog monitor
114	POFLT	O	DPDOFTR
115	CDATA		Inline data
116	CCAPA	O	Inline capacitor
117	CGD	O	Reference voltage
118	AVDDC		Analog current
119	AVSSC	I	Analog GND

Pin No.	Pin Name	I/O	Function and Operation
120	RFINN	I	RF input
121	RFINP	I	RF input
122-131	VIN	I	Head input
132	LPC1	O	DVDLPC input
133	LPCO1	I	DVDLPC output
134	LPC2	O	CDLPC input
135	LPCO2	O	CDLPC output
136	VREFH	O	Reference voltage
137	VHALF		Reference voltage
138	AVSSB	O	Analog GND
139	CTKC	I	TC
140	CSLFLT	O	Capasitor
141	CWBLOUT	I	DC cut for wobble
142	CWBLIN		DC cut for wobble
143	VCOF	I	JFVCO control voltage
144	RVI		VREFH reference current
145	AVDDB	I	Analog current
146-148	AD	I	AD input
149	AVDDA		Analog current
150	DAC1	O	Tracking drive output
151	AVSSA		Analog GND
152	DAC0	O	Focus drive output
153	AVDDE		Analog current
154	IREF1	I	Inside DAC bias current
155	AVSSE		Analog GND
156	COMP1	I	Inside DAC
157	AVDDF		Analog current
158	DAC1OUT	O	Analog signal
159	AVSSF		Analog GND
160	DAC2OUT	O	Analog signal
161	DAC3OUT	O	Analog signal
162	VREF	I	Reference voltage
163	DAC4OUT	O	Analog signal
164	DAC5OUT	O	Analog signal
165	AVDDG	I	Analog power supllly
166	IREF2		Inside DAC bias current
167	VSSG	I	Analog GND
168	COMP2		Inside DAC
169	VSS	I	GND
170	BECLK		Backend clock input
171	VDD33	I	IO power supply
172	EXTCK		Exterior audio clock

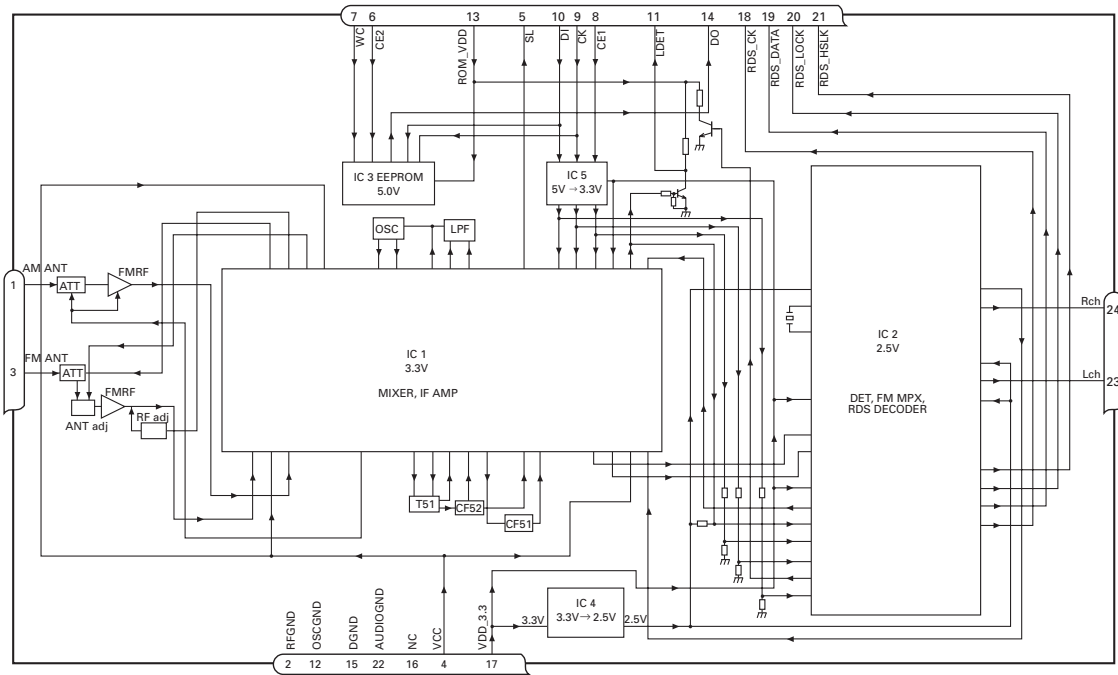
A

Pin No.	Pin Name	I/O	Function and Operation
173	PHCOMPO		Composite audio clock
174	LRCK	O	LR chanel clock output
175	SRCK	O	Bit clock output
176	ADOUT3	O	Audio down mixing
177	VSS	O	GND
178-180	ADOUT	O	Audio data
181	IECOUT	O	IEC958 digital audio output
182	VDD33		IO power supply
183	VSS		GND
184,185	MDQ	I / O	SDRAM data
186	VDD15		Power supply
187,188	MDQ	I / O	SDRAM data
189	VDD33		IO power supply
190-193	MDQ	I / O	SDRAM data
194	VSS		GND
195	VDD33		IO power supply
196,197	MDQ	I / O	SDRAM data
198	VSS		GND
199-201	MDQ	I / O	SDRAM data
202	VDD33		GND
203-205	MDQ	I / O	SDRAM data
206	VSS		GND
207,208	DQM	O	SDRAM data mask
209	VDD33		Power supply
210	MA	O	SDRAM address
211	VSS		GND
212	MA4	O	SDRAM address
213	VDD15		Power supply
214	MA2	O	SDRAM address
215	VSS		GND
216,217	MA	O	SDRAM address
218	VDD33		Power supply
219,220	MA	O	SDRAM address
221	VSS		GND
222	VDD15		Power supply
223	MCKI	I	SDRAM output clock
224	VSS		GND
225	MCK	O	SDRAM input clock
226	VDD33		IO power supply
227-229	MA	O	SDRAM address
230	VSS		GND
231	MA	O	SDRAM address

F

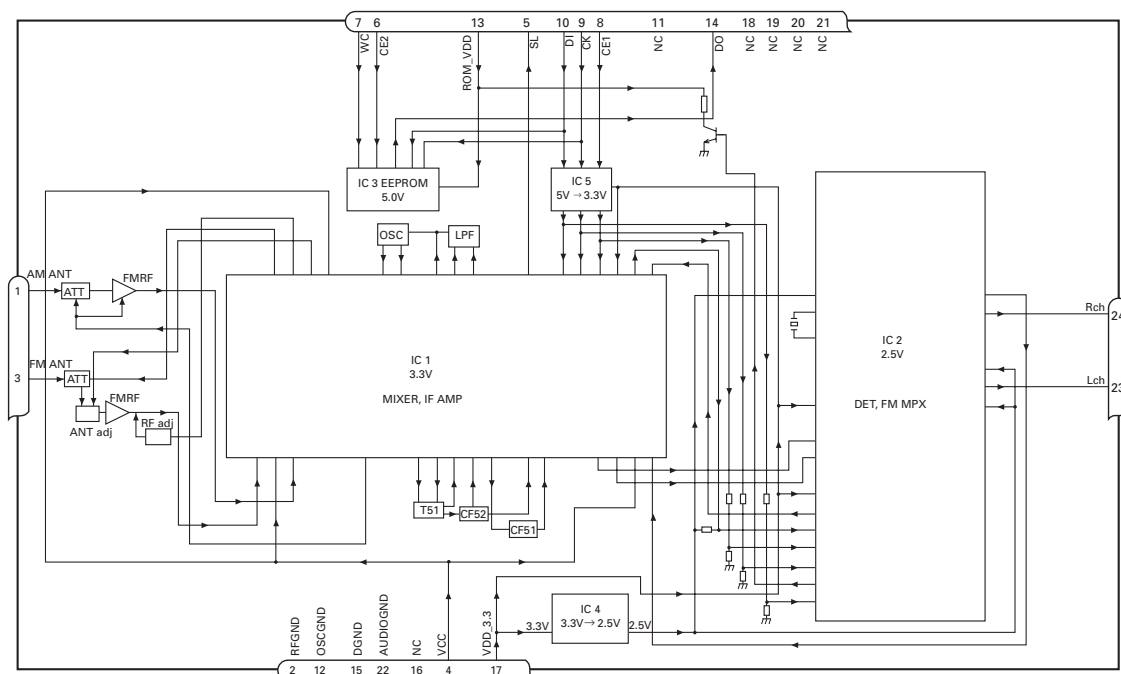
Pin No.	Pin Name	I/O	Function and Operation
232	NWE	O	SDRAM write enable
233	VDD33		IO power supply
234	BA0	O	SDRAM bank address
235	MA	O	SDRAM address
236	VSS		GND
237	BA1	O	SDRAM bank address
238	NCSM	O	SDRAM chip select
239	NRAS	O	SDRAM low address strobe
240	VDD33		IO power supply
241	VSS		GND
242	NCAS	O	SDRAM column address strobe
243	DQM0	O	SDRAM data mask
244	VDD15		Power supply
245	VSS		GND
246	DQM	O	SDRAM data mask
247	MDQ	I / O	SDRAM data
248	VSS		GND
249	MDQ	I / O	SDRAM data
250	VDD33		IO power supply
251-253	MDQ	I / O	SDRAM data
254	VSS		GND
255,256	MDQ	I / O	SDRAM data

FM/AM Tuner Unit(AVH-P5700DVD/EW)



No.	Symbol	I/O	Explain	
1	AMANT	I	AM antenna input	AM antenna input high impedance AMANT pin is connected with an all antenna by way of 4.7μH. (LAU type inductor) A series circuit including an inductor and a resistor is connected with RF ground for the countermeasure against the hum of power transmission line.
2	RFGND		RF ground	Ground of antenna block
3	FMANT	I	FM antenna input	Input of FM antenna 75Ω Surge absorber(DSP-201M-S00B) is necessary.
4	VCC		power supply	The power supply for analog block. D.C 8.4V ± 0.3V
5	SL	O	signal level	Output of FM/AM signals level
6	CE2	I	chip enable-2	Chip enable for EEPROM "Low" active
7	WC	I	write control	You can write EEPROM, when EEPROM write control is "Low". Ordinary non connection
8	CE1	I	chip enable-1	Chip enable for AF•RF "High" active
9	CK	I	clock	Clock
10	DI	I	data in	Data input
11	LDET	O	lock detector	"Low" active
12	OSCGND		osc ground	Ground of oscillator block
13	ROM_VDD		power supply	Power supply for EEPROM pin 13 is connected with a power supply of micro computer.
14	DO	O	data out	Data output
15	DGND		digital ground	Ground of digital block
16	NC		non connection	Not used
17	VDD_3.3		power supply	The power supply for digital block. 3.3V ± 0.2V
18	RDS CK	O	RDS clock	Output of RDS clock(2.5V)
19	RDS DATA	O	RDS data	Output of RDS data(2.5V)
20	RDS LOCK	O	RDS lock	Output unit "High" active(2.5V) (RDS_LOCK turns over by the external transistor. "Low" active)
21	RDS_HSLK	O	RDS high speed lock	Output unit "High" active(2.5V)(RDS_HSLK turns over by the external transistor. "Low" active)
22	AUDIOGND		audio ground	Ground of audio block
23	L ch	O	L channel output	FM stereo "L-ch" signal output or AM audio output
24	R ch	O	R channel output	FM stereo "R-ch" signal output or AM audio output

● FM/AM Tuner Unit(AVH-P5700DVD/UC)



No.	Symbol	I/O	Explain	
1	AMANT	I	AM antenna input	AM antenna input high impedance AMANT pin is connected with an all antenna by way of 4.7μH. (LAU type inductor) A series circuit including an inductor and a resistor is connected with RF ground for the countermeasure against the hum of power transmission line.
2	RFGND		RF ground	Ground of antenna block
3	FMANT	I	FM antenna input	Input of FM antenna 75Ω Surge absorber(DSP-201M-S00B) is necessary.
4	VCC		power supply	The power supply for analog block. D.C 8.4V ± 0.3V
5	SL	O	signal level	Output of FM/AM signals level
6	CE2	I	chip enable-2	Chip enable for EEPROM "Low" active
7	WC	I	write control	You can write EEPROM, when EEPROM write control is "Low". Ordinary non connection
8	CE1	I	chip enable-1	Chip enable for AF•RF "High" active
9	CK	I	clock	Clock
10	DI	I	data in	Data input
11	NC		non connection	Not used
12	OSCGND		osc ground	Ground of oscillator block
13	ROM_VDD		power supply	Power supply for EEPROM pin 13 is connected with a power supply of micro computer.
14	DO	O	data out	Data output
15	DGND		digital ground	Ground of digital block
16	NC		non connection	Not used
17	VDD_3.3		power supply	The power supply for digital block. 3.3V ± 0.2V
18	NC		non connection	Not used
19	NC		non connection	Not used
20	NC		non connection	Not used
21	NC		non connection	Not used
22	AUDIOGND		audio ground	Ground of audio block
23	L ch	O	L channel output	FM stereo "L-ch" signal output or AM audio output
24	R ch	O	R channel output	FM stereo "R-ch" signal output or AM audio output

7.3 EXPLANATION

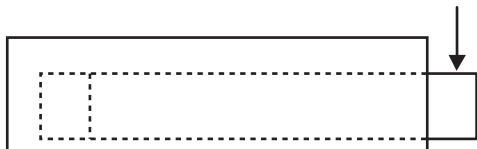
7.3.1 MECHANISM DESCRIPTIONS

● Outline of the FLAP motion

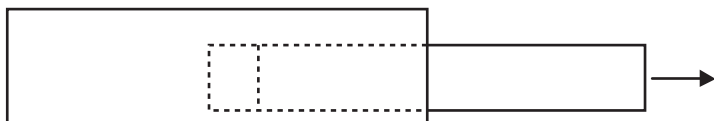
1. The motion is actuated made by two motors, the forward/backward driving motor (CXB9515) and the angle driving motor (CXB9516).
2. Analog electric potential generated by the angle encoder is detected to detect angle motion status and motion position.
3. Memory function for the angle last position is accomplished by the micro processor using the 256 resolution steps of the VDD.
4. A pulse is detected by the photo interrupter to detect the horizontal motion status.
5. In the case of reset start, the monitor will be in a stored position first, and ejection motion will take place, which puts the system in the booted up state.
6. Angle adjustment is made by the angle key (+/-).
7. OPEN/CLOSE key makes the monitor stored or ejected, and temporary folding key folds the monitor temporarily.
8. Setting of the monitor auto storage/ejection ON/OFF and set back ON/OFF at the time of ACC ON/OFF is made on the navigation menu screen.
9. A backlight is switched-off during forward/backward and storage.

● Explanation on the FLAP ejection motion

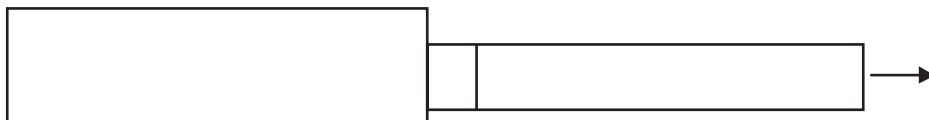
1. When the OPEN key is pressed or ACC is set to ON while the auto OPEN/CLOSE is being set to ON, angle driving motor rotates in the 0° direction for 500ms. (Pressed down.)



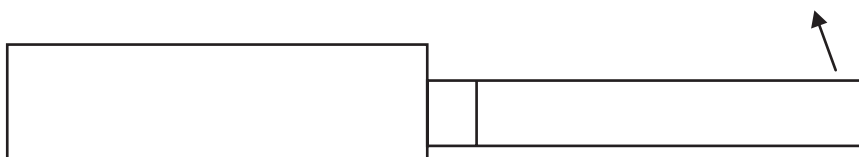
2. After 500ms, the angle driving motor is stopped, and the forward/backward driving motor rotates in the ejection direction.



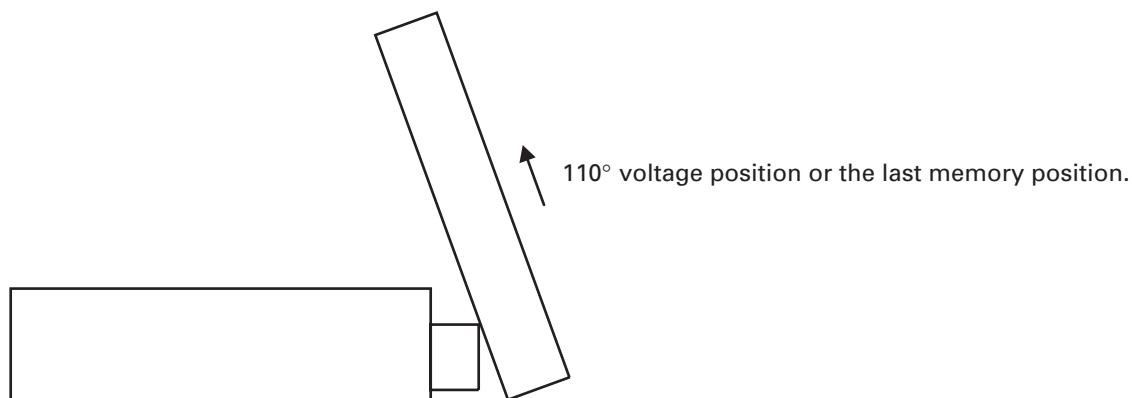
3. For a period of 600ms from the time when LIFTSW is switched from H to L, the forward/backward driving motor keeps rotating in the ejection direction.



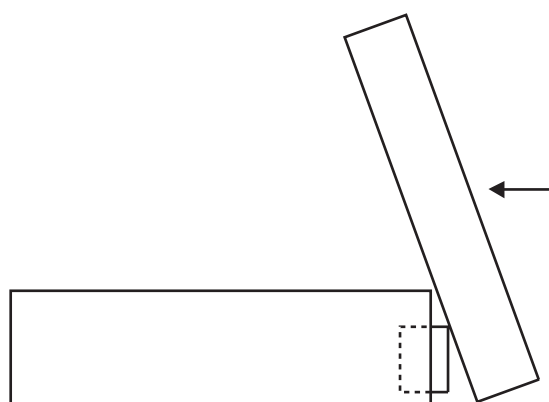
4. After 600ms, the forward/backward driving motor is stopped, and the angle driving motor rotates in the UP direction.



5. When the angle voltage reaches the voltage for 110° , brake is applied to the angle driving motor, and the ejection is completed. (In case the previous angle is stored in the memory, the motion continues to that angle.)

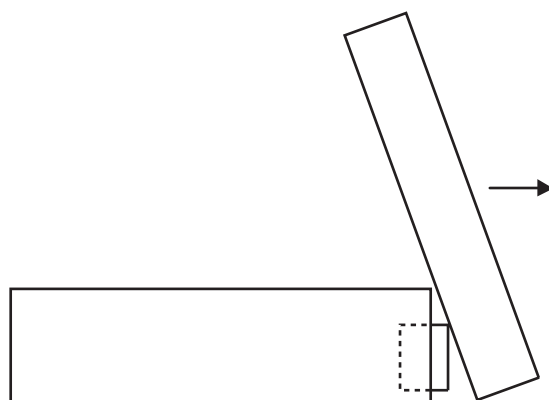


6. When the setback is set to ON, after the monitor angle voltage has reached the previously memorized voltage, brake is applied to the angle driving motor, then the forward/backward driving motor is rotated in slow speed in the storage direction. After that, when LIFTSW has switched from L to H, the forward/backward driving motor is stopped.

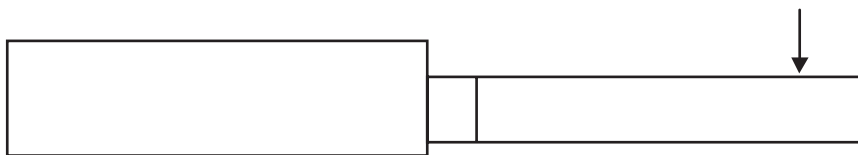


● Explanation of the FLAP storage motion

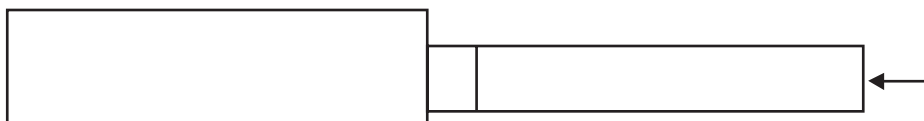
1. When CLOSE key is pressed, or after 6 seconds from ACC OFF when auto OPEN/CLOSE is being set to ON, the angle driving motor is rotated in the 0° direction. In case the setback setting is ON, the forward/backward driving motor is rotated in high speed in the ejection direction and the motor continues to rotate for 600ms from the time when LIFTSW is switched from H to L, then the angle driving motor is rotated in the 0° direction.



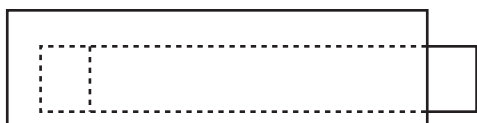
2. For a period of 500ms from the time when DIGOSW is switched from H to L, the angle driving motor is rotated in the 0° direction for the "pressed down" motion.



3. After 500ms, brake is applied to the angle driving motor, and then the forward/backward driving motor is rotated in the storage direction.

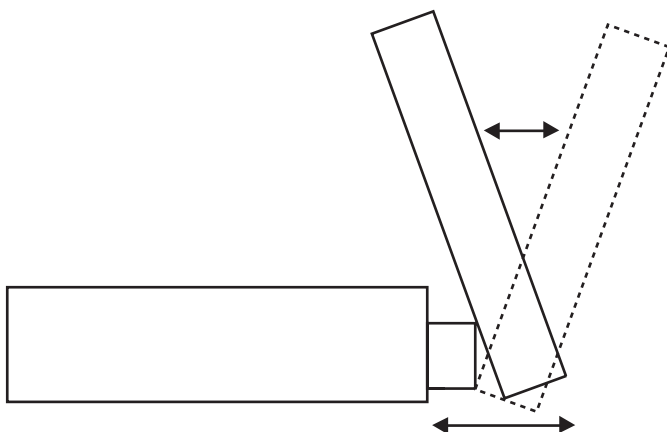


4. When the horizontal motion detection pulse is no longer detected for 200ms, brake is applied and the monitor storage motion is completed.



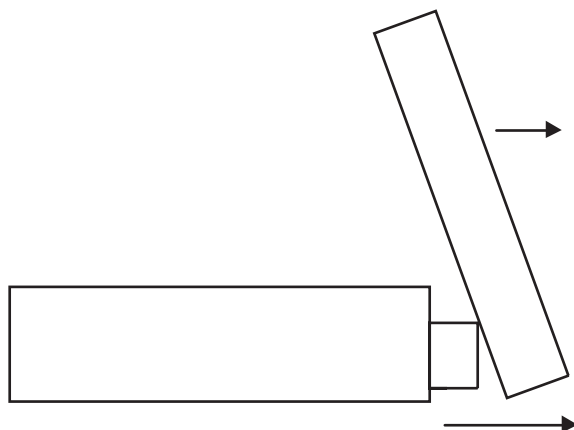
● Explanation on the FLAP angle adjustment

1. The angle driving motor is rotated in UP direction by the "+" key and in DOWN direction by the "-" key from the monitor stop position. If the key is kept pressed, the monitor will keep changing the angle without steps within the range of 50 to 110 degrees. When the setback is being set to ON, the forward/backward driving motor is rotated in the horizontal ejection direction while the key is being pressed, and angle adjustment is made by changing the angle voltage to the extent the angle adjustment key is effective after 600ms has elapsed from the time when LIFTSW has switched from H to L. When 3 seconds have elapsed from the time of angle adjustment completion, the forward/backward driving motor is rotated in slow speed in the horizontal storage direction, and brake is applied when LIFTSW has switched from L to H.

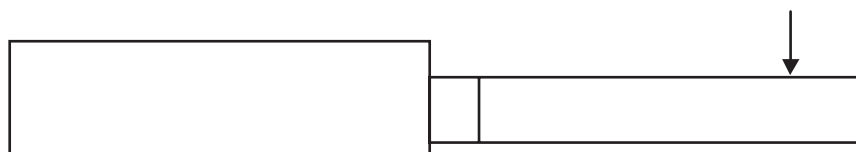


● Explanation on the FLAP temporary folding operation

1. By pressing the temporary folding key, the angle driving motor is rotated from the monitor stop position toward 0° direction. When the setback is being set to ON, the forward/backward driving motor is rotated when the key is pressed, brake is applied after 600ms has elapsed from the time when LIFTSW has switched from H to L, and the angle driving motor is rotated in 0° direction.



2. For a period of 500ms after DEGOSW has switched from H to L, the angle driving motor is rotated, and the monitor stops at its horizontal position by the brake. After 7 seconds, navigator operation sound is heard three times in 1 second interval. After 10 seconds, the angle driving motor is rotated in UP direction, and then the brake is applied to stop the motor at the last memory position. When the setback is being set to ON, after the angle driving motor stops at the last memory position, the forward/backward driving motor is rotated in slow speed in the horizontal storage direction, and the motor stops after LIFTSW has switched from L to H.



● Notes related to the FLAP motion

1. Regarding the angle position, angle voltage is always checked, and the last memory is stored by addition or subtraction of the voltage. It should be noted, however, that the last memory will not be stored when the monitor is manually moved by force.
2. If the expected pulse is not detected during horizontal motion, the monitor will stop at that position.

● Table of driving unit operations by different preset modes

		OPEN state	In OPEN motion	In CLOSE motion	CLOSE state
Auto OPEN/CLOSE setting ON	Bup ON (Reset start)	CLOSE state ↓ CLOSE ↓ OPEN state ↓ Last angle	————	————	Continue OPEN motion ↓ Last angle
	Bup OFF	To stand-by	To stand-by	To stand-by	To stand-by
	Bup OFF → ON	No state change	Continue OPEN motion ↓ Last angle ↓ Return	Continue CLOSE motion ↓ CLOSE	No state change
	ACC ON	No state change	————	————	OPEN motion ↓ Last angle ↓ Return
	ACC OFF → ON	No state change	Continue OPEN motion ↓ Last angle ↓ Return	Continue CLOSE motion ↓ CLOSE	No state change
	ACC OFF	6 sec from ACC OFF ↓ Advance ↓ CLOSE motion ↓ CLOSE	Continue OPEN motion ↓ Last angle ↓ Return ↓ 6 sec from ACC OFF ↓ Advance ↓ CLOSE motion ↓ CLOSE	Continue CLOSE motion ↓ CLOSE	No state change
	Last memory	OPEN	OPEN	CLOSE	CLOSE
Auto OPEN/CLOSE setting OFF	Bup ON (Reset start)	————	————	————	————
	Bup OFF	To stand-by	To stand-by	To stand-by	To stand-by
	Bup OFF → ON	No state change	Continue OPEN motion ↓ Last angle ↓ Return	Continue CLOSE motion ↓ CLOSE	No state change
	ACC ON	No state change	————	————	No state change
	ACC OFF → ON	No state change	Continue OPEN motion ↓ Last angle ↓ Return	Continue CLOSE motion ↓ CLOSE	No state change
	ACC OFF	No state change	Continue OPEN motion ↓ Last angle ↓ Return	Continue CLOSE motion ↓ CLOSE	No state change
	Last memory	OPEN	OPEN	CLOSE	CLOSE

* When the setback is being set to OFF, there will be no advance/return motion.

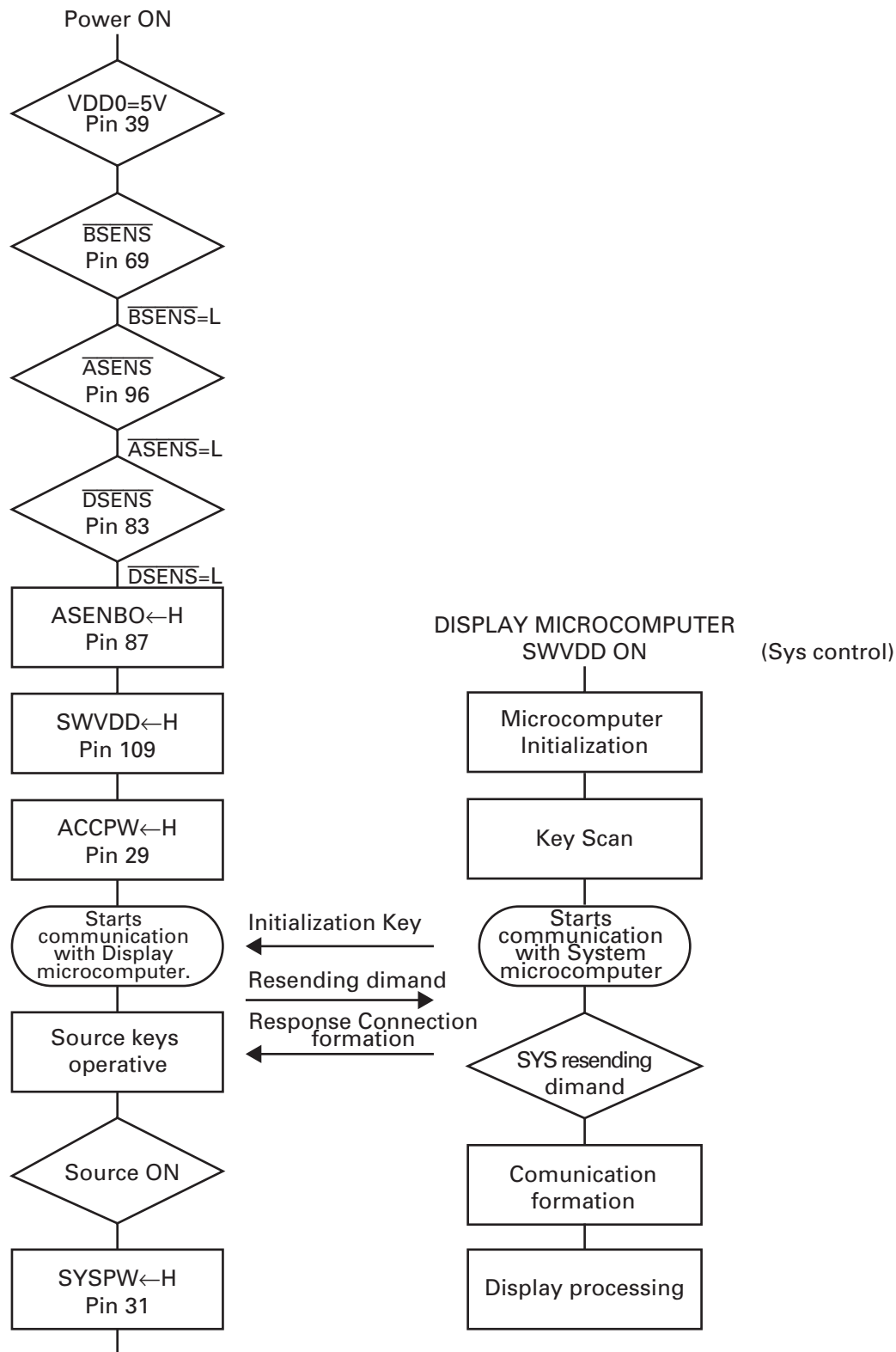
After ACC OFF, if ACC is switched ON again during the 6 seconds counting, standby will be passed and the FLAP status will not change.

● Table of temporary folding control

		Temporary folding state (horizontal position)	Temporary folding reset (horizontal position→last angle)	Temporary folding in motion (last angle→horizontal position)
Auto OPEN/CLOSE setting ON	Bup ON	——	——	——
	Bup OFF	To stand-by	To stand-by	To stand-by
	Bup OFF→ON	Continue temporary folding motion	Continue OPEN motion ↓ Last angle ↓ Return	Continue temporary folding motion ↓ Temporary folding
	ACC ON	——	——	——
	ACC OFF→ON	OPEN motion ↓ Last angle ↓ Return	Continue OPEN motion ↓ Last angle ↓ Return	Continue temporary folding motion ↓ Temporary folding
	ACC OFF	6 sec from ACC OFF ↓ CLOSE motion ↓ CLOSE	Continue OPEN motion ↓ Last angle ↓ Return ↓ 6 sec from ACC OFF ↓ Advance ↓ CLOSE motion ↓ CLOSE	Continue temporary folding motion ↓ Temporary folding ↓ 6 sec from ACC OFF ↓ CLOSE motion ↓ CLOSE
	Last memory	OPEN	OPEN	OPEN
	Bup ON	——	——	——
	Bup OFF	To stand-by	To stand-by	To stand-by
	Bup OFF→ON	Continue temporary folding motion	Temporary folding reset	Temporary folding in motion
Auto OPEN/CLOSE setting OFF	ACC ON	——	——	——
	ACC OFF→ON	OPEN motion ↓ Last angle ↓ Return	Continue OPEN motion ↓ Last angle ↓ Return	OPEN motion ↓ Last angle ↓ Return
	ACC OFF	OPEN motion ↓ Last angle ↓ Return	Continue OPEN motion ↓ Last angle ↓ Return	OPEN motion ↓ Last angle ↓ Return
	Last memory	OPEN	OPEN	OPEN

* When the setback is being set to OFF, there will be no advance/return motion.

7.3.2 OPERATIONAL FLOW CHART



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

7.4 CLEANING



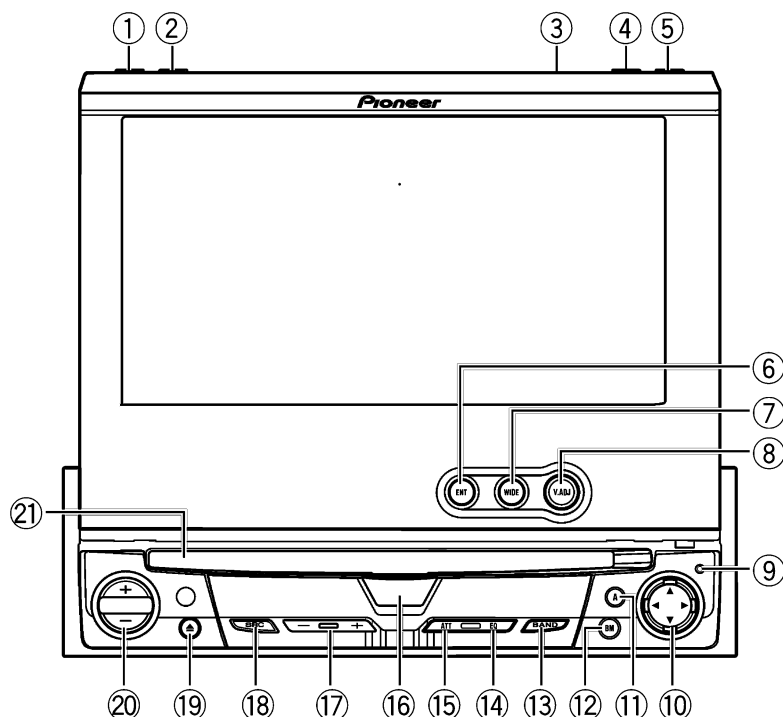
Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

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

8. OPERATIONS

● AVH-P5700DVD/EW



Head unit

① INFO button

Press to turn the information bar on/off.

② TA/NEWS button

Press to turn traffic announcements function on or off.

Press and hold to turn NEWS function on or off.

③ Ambient light sensor

Senses ambient light. This system automatically adjusts the brightness of the display to compensate for ambient light.

④ FLIP DOWN button

Press to turn the LCD panel horizontal temporarily from upright position.

⑤ OPEN/CLOSE button

Press to open or close the LCD panel.

⑥ ENTERTAINMENT (ENT) button

Press to switch between the background displays.

⑦ WIDE button

Press to select a desired mode for enlarging a 4:3 picture to a 16:9 one.

⑧ V.ADJ button

Press and hold to display the picture adjustment menu.

⑨ RESET button

Press to return to the factory settings (initial settings).

⑩ ▲/▼/◀/▶ buttons

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

⑪ A.MENU button

Press to display **MENU**.

■ 5 ■ 6 ■ 7 ■ 8 ■

⑫ **BOOKMARK (BM) button**

Press to bookmark a scene that you want to resume playback.

A

⑬ **BAND/ESC button**

Press to select among three FM bands and MW/LW bands and to cancel the control mode of functions.

■

⑭ **EQ button**

Press to select various equalizer curves.

B

⑮ **ATT button**

Press to quickly lower the volume level, by about 90%. Press once more to return to the original volume level.

■

⑯ **Release button**

Press downward to detach the front panel.

⑰ **ANGLE (+/-) button**

Press to change the LCD panel angle.

C

⑱ **SOURCE button**

This unit is turned on by selecting a source. Press to cycle through all the available sources.

■

⑲ **EJECT button**

Press to eject a disc from this unit.

D

⑳ **VOLUME**

Press to increase or decrease the volume.

㉑ **Disc loading slot**

Insert a disc to play. ■

■

Optional remote control

E

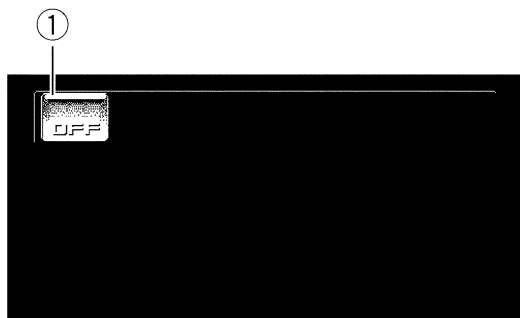
You can also control this unit with a separately sold remote control.

For details concerning operations, see the remote control manual. ■

■

F

Turning the unit on and selecting a source



① Source icon

Shows which source has been selected.

You can select a source you want to listen to. To switch to the DVD player, load a disc in the unit to switch to **DVD**.

● When using the touch panel keys, touch the source icon and then touch the desired source name.

The source names are displayed and selectable ones are highlighted.

- **DVD** – Built-in DVD player
- **S-DVD** – DVD player/multi-DVD player
- **M-CD** – Multi-CD player
- **TUNER** – Tuner
- **TV** – Television
- **iPod** – iPod
- **AV** – AV input
- **EXT-1** – External unit 1
- **EXT-2** – External unit 2
- **AUX** – AUX
- **DAB** – Digital audio broadcasting
- **NAVI** – Navigation unit
- **OFF** – Turn the unit off

- When the source icon is not displayed, you can display it by touching the screen.
- To return to the playback display, touch **ESC**.

● When using the buttons, press **SOURCE** to select a source.

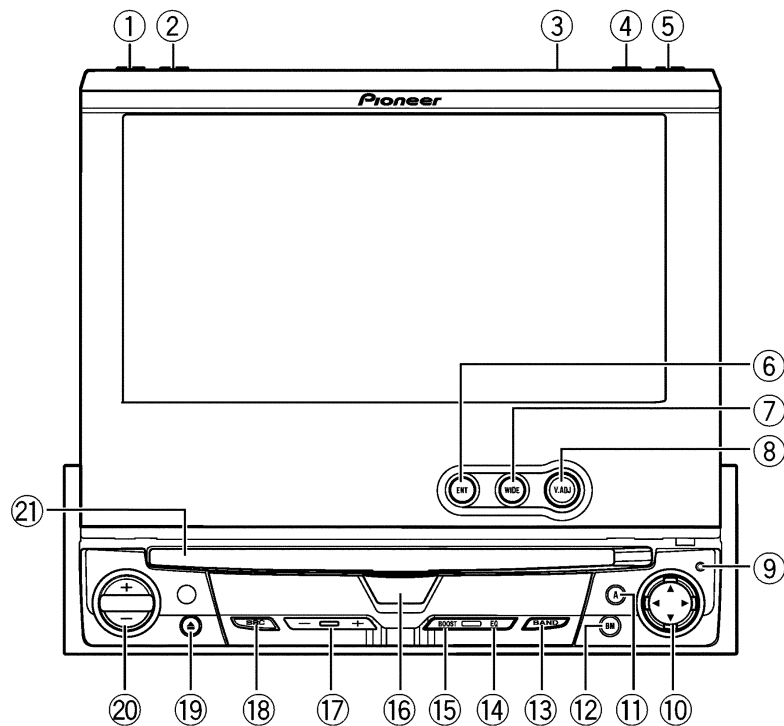
Press **SOURCE** repeatedly to switch between the following sources:

DAB (digital audio broadcasting)—**TUNER** (tuner)—**TV** (television)—**AV** (AV)—**DVD** (built-in DVD player)—**S-DVD** (DVD player/multi-DVD player)—**M-CD** (multi-CD player)—**iPod** (iPod)—**EXT-1** (external unit 1)—**EXT-2** (external unit 2)—**AUX** (AUX)—**NAVI** (navigation unit)



Notes

- In the following cases, the sound source will not change:
 - When there is no unit corresponding to the selected source connected to this unit.
 - When there is no disc in the unit.
 - When there is no disc in the DVD player.
 - When there is no magazine in the multi-CD player.
 - When there is no magazine in the multi-DVD player.
 - When the AUX (auxiliary input) is set to off.
 - When the AV (AV input) is not set to **VIDEO**.
- External unit refers to a Pioneer product (such as one available in the future) that, although incompatible as a source, enables control of basic functions by this unit. Two external units can be controlled by this unit. When two external units are connected, the allocation of them to external unit 1 or external unit 2 is automatically set by this unit.
- When this unit's blue/white lead is connected to the vehicle's auto-antenna relay control terminal, the vehicle's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off. When using with a Pioneer navigation unit, the car's antenna extends regardless of turning this unit on or off.



Head unit

① INFO button

Press to turn the information bar on/off.

② PGM button

Press to operate the preprogrammed functions for each source.

③ Ambient light sensor

Senses ambient light. This system automatically adjusts the brightness of the display to compensate for ambient light.

④ FLIP DOWN button

Press to turn the LCD panel horizontal temporarily from upright position.

⑤ OPEN/CLOSE button

Press to open or close the LCD panel.

⑥ ENTERTAINMENT (ENT) button

Press to switch between the background displays.

⑦ WIDE button

Press to select a desired mode for enlarging a 4:3 picture to a 16:9 one.

⑧ V.ADJ button

Press and hold to display the picture adjustment menu.

⑨ RESET button

Press to return to the factory settings (initial settings).

⑩ ▲/▼/◀/▶ buttons

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

⑪ A.MENU button

Press to display **MENU**.

A

⑫ BOOKMARK (BM) button

Press to bookmark a scene that you want to resume playback.

⑬ BAND/ESC button

Press to select among three FM bands and one AM band and to cancel the control mode of functions.

B

⑭ EQ button

Press to select various equalizer curves.

⑮ BOOST button

Press to boost the subwoofer level.
When the separately sold multi-channel processor is connected to this unit and the subwoofer is set to ON, press to display the speaker level menu. When it is OFF, press to display the speaker setting menu.

C

⑯ Release button

Press downward to detach the front panel.

⑰ ANGLE (+/-) button

Press to change the LCD panel angle.

⑱ SOURCE button

This unit is turned on by selecting a source.
Press to cycle through all the available sources.

D

⑲ EJECT button

Press to eject a disc from this unit.

⑳ VOLUME

Press to increase or decrease the volume.

E

㉑ Disc loading slot

Insert a disc to play. 

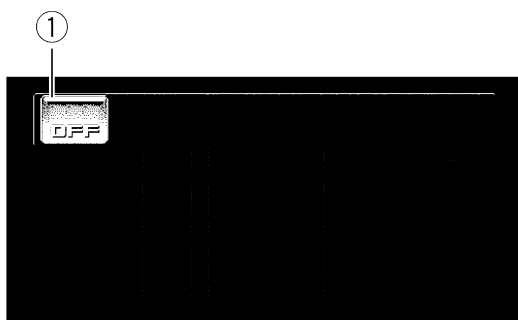
F

Optional remote control

You can also control this unit with a separately sold remote control.

For details concerning operations, see the remote control manual. 

Turning the unit on and selecting a source



① Source icon

Shows which source has been selected.

You can select a source you want to listen to. To switch to the DVD player, load a disc in the unit to switch to **DVD**.

● When using the touch panel keys, touch the source icon and then touch the desired source name.

The source names are displayed and selectable ones are highlighted.

- **DVD** – Built-in DVD player
 - **S-DVD** – DVD player/multi-DVD player
 - **M-CD** – Multi-CD player
 - **TUNER** – Tuner
 - **TV** – Television
 - **iPod** – iPod
 - **EXT-1** – External unit 1
 - **EXT-2** – External unit 2
 - **AUX** – AUX
 - **AV** – AV input
 - **NAVI** – Navigation unit
 - **XM** – XM tuner
 - **SIRIUS** – SIRIUS tuner
 - **OFF** – Turn the unit off
- When the source icon is not displayed, you can display it by touching the screen.
 - To return to the playback display, touch **ESC**.

● When using the buttons, press **SOURCE** to select a source.

Press **SOURCE** repeatedly to switch between the following sources:

XM (XM tuner)—**SIRIUS** (SIRIUS tuner)
 —**TUNER** (tuner)—**TV** (television)—**AV** (AV)
 —**DVD** (built-in DVD player)—**S-DVD** (DVD player/multi-DVD player)—**M-CD** (multi-CD player)—**iPod** (iPod)—**EXT-1** (external unit 1)
 —**EXT-2** (external unit 2)—**AUX** (AUX)—**NAVI** (navigation unit)



Notes

- In the following cases, the sound source will not change:
 - When there is no unit corresponding to the selected source connected to this unit.
 - When there is no disc in the unit.
 - When there is no disc in the DVD player.
 - When there is no magazine in the multi-CD player.
 - When there is no magazine in the multi-DVD player.
 - When the AUX (auxiliary input) is set to off.
 - When the AV (AV input) is not set to **VIDEO**.
- External unit refers to a Pioneer product (such as one available in the future) that, although incompatible as a source, enables control of basic functions by this unit. Two external units can be controlled by this unit. When two external units are connected, the allocation of them to external unit 1 or external unit 2 is automatically set by this unit.
- When this unit's blue/white lead is connected to the vehicle's auto-antenna relay control terminal, the vehicle's antenna extends when this unit's source is turned on. To retract the antenna, turn the source off. [■]

A

Loading a disc

- **Insert a disc into the disc loading slot.**

Playback will automatically start.

- When the automatic playback function is on, this unit will cancel the DVD menu and automatically start playback from the first chapter of the first title.

- To eject a disc, press **EJECT**.

B



Notes

- The DVD player plays one, standard, 12-cm or 8-cm (single) disc at a time. Do not use an adapter when playing 8-cm discs.
- Do not insert anything other than a disc into the disc loading slot.

C

- If you cannot insert a disc completely or if after you insert a disc the disc does not play, check that the label side of the disc is up. Press **EJECT** to eject the disc, and check the disc for damage before inserting it again.
- If an error message such as **ERROR-02** is displayed, refer to *Error messages* on page 100.
- If bookmark function is on, DVD playback resumes from the selected point. ■

D

Adjusting the volume

- **Use VOLUME to adjust the sound level.**

Press **VOLUME** up/+ or down/- to increase or decrease the source volume. ■

E

F

Turning the unit off

- **When using the touch panel keys, touch the source icon and then touch OFF.**

- When the source icon is not displayed, you can display it by touching the screen.

- **When using the buttons, press SOURCE and hold until the unit turns off. ■**

Using the rear display

You can watch a DVD/Video CD/TV/AV on the rear display.

1 Press A.MENU button and touch SETUP to display the setup function names.

2 Touch R.DISP on the setup menu to display video of the selected source on rear display.

Touch **R.DISP** until **SOURCE** appears in the display.

- **SOURCE** – Display the video of the selected source on rear display
- **NAVI** – Display the navigation image or AVG-VDP1 on rear display



Note

When a Pioneer navigation unit or a Pioneer Vehicle Dynamics Processor (AVG-VDP1) is connected to this unit, the navigation or the AVG-VDP1 can be displayed on the rear display. ■

Displaying the navigation image

You can display navigation map and navigation menu on this display.

- You can operate these functions only when a Pioneer navigation unit is connected to this unit.

Displaying navigation map

- **Press WIDE to display navigation map.**
 - When the map is scrolled, pressing this button returns to the display of the map of your surroundings.

Displaying navigation menu

- **Press ENTERTAINMENT (ENT) to display navigation menu when the navigation map is displayed.**

Switching to the navigation image

- **Press V.ADJ to switch the display to navigation image.**
 - To return to the video of sources, press **V.ADJ** again. 

Displaying the AVG-VDP1 (Pioneer Vehicle Dynamics Processor)

This unit can be used as the display unit for the AVG-VDP1 (sold separately) product.

- You can operate this function only when a Pioneer Vehicle Dynamics Processor (AVG-VDP1) is connected to this unit.

Displaying AVG-VDP1

- **Press V.ADJ to switch the display to the AVG-VDP1.**
 - To return to the video of sources, press **V.ADJ** again.

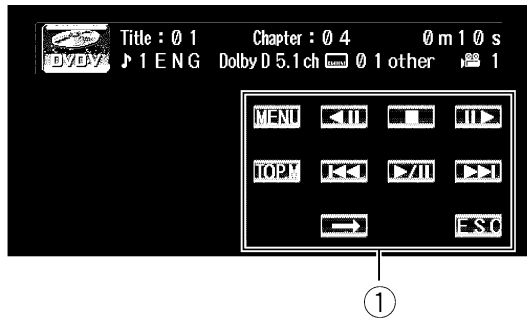


Note

You can also use **WIDE** and **ENTERTAINMENT (ENT)** buttons when you display the AVG-VDP1. For details concerning operation, refer to the AVG-VDP1 operation manual. 

Touch panel key basic operation

Activating the touch panel keys



① Touch panel keys

Touch to do various operations.

1 Touch the screen to activate the touch panel keys corresponding to each source.

The touch panel keys appear on the display.

- To go to the next group of touch panel keys, touch →.

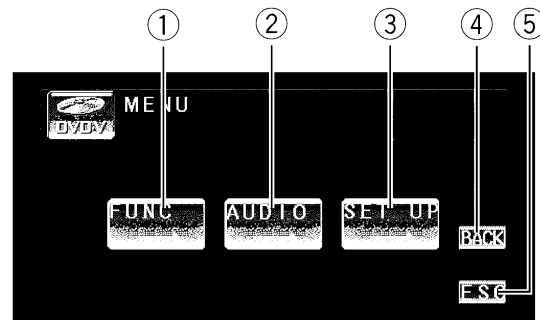
2 Touch ESC to hide the touch panel keys.



Note

If you do not use the touch panel keys within 30 seconds, they will be hidden automatically.

Operating the menu



① FUNCTION key

Touch to select functions for each source.

② AUDIO key

Touch to select various sound quality controls.

③ SETUP key

Touch to select various setup functions.

④ BACK key

Touch to return to the previous display.

⑤ ESC key

Touch to cancel the control mode of functions.

1 Press A.MENU button to display MENU. MENU appears on the display.

2 Touch the desired key to display the function names you want to operate.

- To go to the next group of function names, touch **NEXT**.
- To return to the previous group of function names, touch **PREV**.

3 Touch ESC to return to the display of each source.

Note

If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display. ■

Opening and closing the LCD panel

The LCD panel will be opened or closed automatically with the turning of the ignition switch on or off. You can turn off the automatic close/open function.

- Do not close the LCD panel with hands by force. That cause malfunction.
- The automatic close/open function will operate the display as follows.
 - When the ignition switch is turned OFF while the LCD panel is opened, the LCD panel will close after six seconds.
 - When the ignition switch is turned ON again (or turned to ACC), the LCD panel will be opened automatically.
 - Removing or attaching the front panel will automatically close or open the LCD panel.
- When the ignition switch is turned OFF after the LCD panel has been closed, turning the ignition switch ON again (or turning it to ACC) will not open the LCD panel. In this case, press **OPEN/CLOSE** to open the LCD panel.
- When closing the LCD panel, check to make sure that it has closed completely. If the LCD panel has stopped halfway, leaving it like this could result in damage.

● Press OPEN/CLOSE to open the LCD panel.

- To close the LCD panel, press **OPEN/CLOSE** again.

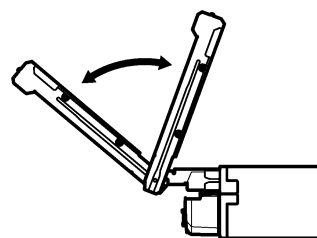
Adjusting the LCD panel angle

Important

- If you can hear the LCD panel knocking against your vehicle's console or dashboard, press **ANGLE (-)** to move the LCD panel a little forward.
- When adjusting the LCD panel angle, be sure to press **ANGLE (+/-)**. Forcibly adjusting the LCD panel by hand may damage it.

● Press ANGLE (+/-) to adjust the LCD panel to an easily viewable angle.

The LCD panel angle continues changing as long as you press **ANGLE (+/-)** and hold.



- The adjusted LCD panel angle will be memorized and automatically returned to the next time the LCD panel is opened.

Turning the LCD panel horizontal

When the LCD panel is upright and it hinders the operation of the air conditioner, the panel can be turned horizontal temporarily.

● Press FLIP DOWN to turn the LCD panel horizontal.

- To return to original position, press **FLIP DOWN** again.
- The LCD panel returns to the original position automatically with beeping sound 10 seconds after operation. ■

Changing the wide screen mode

You can select a desired mode for enlarging a 4:3 picture to a 16:9 one.

● Press **WIDE** to select the desired setting.

Press **WIDE** repeatedly to switch between the following settings:

FULL (full)—**JUST** (just)—**CINEMA** (cinema)—**ZOOM** (zoom)—**NORMAL** (normal)

■ When a Pioneer navigation unit is connected to this unit, press **WIDE** and hold to select the desired setting. Press and hold **WIDE** repeatedly to switch between the settings.

FULL (full)

A 4:3 picture is enlarged in the horizontal direction only, giving you a 4:3 TV picture (normal picture) without any omissions.

JUST (just)

The picture is enlarged slightly at the center and the amount of enlargement increases horizontally to the ends, enabling you to enjoy a 4:3 picture without sensing any disparity even on a wide screen.

CINEMA (cinema)

The picture is enlarged by the same proportion as **FULL** or **ZOOM** in the horizontal direction and by an intermediate proportion between **FULL** and **ZOOM** in the vertical direction; ideal for a cinema-sized picture (wide screen picture) where captions lie outside.

ZOOM (zoom)

A 4:3 picture is enlarged in the same proportion both vertically and horizontally; ideal for a cinema-sized picture (wide screen picture).

NORMAL (normal)

A 4:3 picture is displayed as it is, giving you no sense of disparity since its proportions are the same as that of the normal picture.



Notes

- Different settings can be memorized for each video source.
- When video is viewed in a wide screen mode that does not match its original aspect ratio, it may appear different.
- Remember that using the wide mode feature of this system for commercial or public viewing purposes may constitute an infringement on the author's rights protected by the Copyright Law.
- Video will appear grainy when viewed in **CINEMA** or **ZOOM** mode.
- The navigation map and the rear view camera picture is always **FULL**. □

Adjusting the picture adjustment

You can adjust **BRIGHT** (brightness), **CONTRAST** (contrast), **COLOR** (color) and **HUE** (hue) for each source and rear view camera.

- The adjustments of **BRIGHT** and **CONTRAST** are stored separately for light ambient (daytime) and dark ambient (night-time). A sun ☀ or moon 🌙 is displayed to the left of **BRIGHT** and **CONTRAST**, respectively, as the ambient light sensor determines brightness or darkness.
- You cannot adjust **COLOR** or **HUE** for the audio source.

1 Press **V.ADJ** and hold to display **PICTURE ADJUST**.

Press **V.ADJ** until **PICTURE ADJUST** appears in the display.

2 Touch any of the following touch panel keys to select the function to be adjusted.

The adjustment function names are displayed and adjustable ones are highlighted.

- **BRIGHT** – Adjust the black intensity
- **CONTRAST** – Adjust the contrast
- **COLOR** – Adjust the color saturation
- **HUE** – Adjust the tone of color (red is emphasized or green is emphasized)
- **DIMMER** – Adjust the brightness of display
- **BACK-CAMERA** – Switch to the picture adjustment display for the rear view camera
 - You can adjust the picture adjustment for rear view camera only when **B-CAM** is turned on.
 - With some rear view cameras, picture adjustment may not be possible.

3 Touch ◀ or ▶ to adjust the selected item.

Each time you touch ◀ or ▶ it increases or decreases the level of selected item. **+24 – –24** is displayed as the level is increased or decreased.

4 Touch ESC to hide the touch panel keys.

Adjusting the dimmer

The adjustment of **DIMMER** is stored separately for each ambient light; daytime, evening and nighttime. The brightness of LCD screen will be adjusted to optimum level automatically in accordance with the ambient light based on the setting values.

1 Press V.ADJ and hold to display PICTURE ADJUST.

Press **V.ADJ** until **PICTURE ADJUST** appears in the display.

2 Touch DIMMER.

The ambient light level used as the standard for adjusting **DIMMER** appears above the level bar.

- Red sun ☀ – Adjust the brightness for bright ambient light (daytime)
- White sun 🌄 – Adjust the brightness for intermediate brightness (evening)
- Blue moon 🌙 – Adjust the brightness for dark ambient light (nighttime)

3 Touch ◀ or ▶ to adjust the brightness.

Each time you touch ◀ or ▶ moves the key towards the left or the right.

The level indicates the brightness of the screen being adjusted. The farther the key moves to the right, the brighter the screen.

4 Touch ESC to hide the touch panel keys.



Note

The icons indicating the current ambient brightness used for adjusting **BRIGHT** and **CONTRAST** may differ from **DIMMER** slightly. □

Protecting your unit from theft

The front panel can be detached from the head unit to discourage theft.

- If the front panel is not detached from the head unit within five seconds of turning off the ignition, a warning tone will sound.
- You can turn off the warning tone.



Important

- Never use force or grip the display and the buttons too tightly when removing or attaching.

A

- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.
- If removed, replace the front panel on the unit before starting up your vehicle.

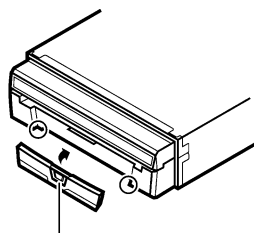
B

Removing the front panel

- **Push the release button downward and release the front panel.**

Take care not to grip it too tightly or to drop the front panel and protect it from contact with water or other fluids to prevent permanent damage.

C



Release button

D

Attaching the front panel

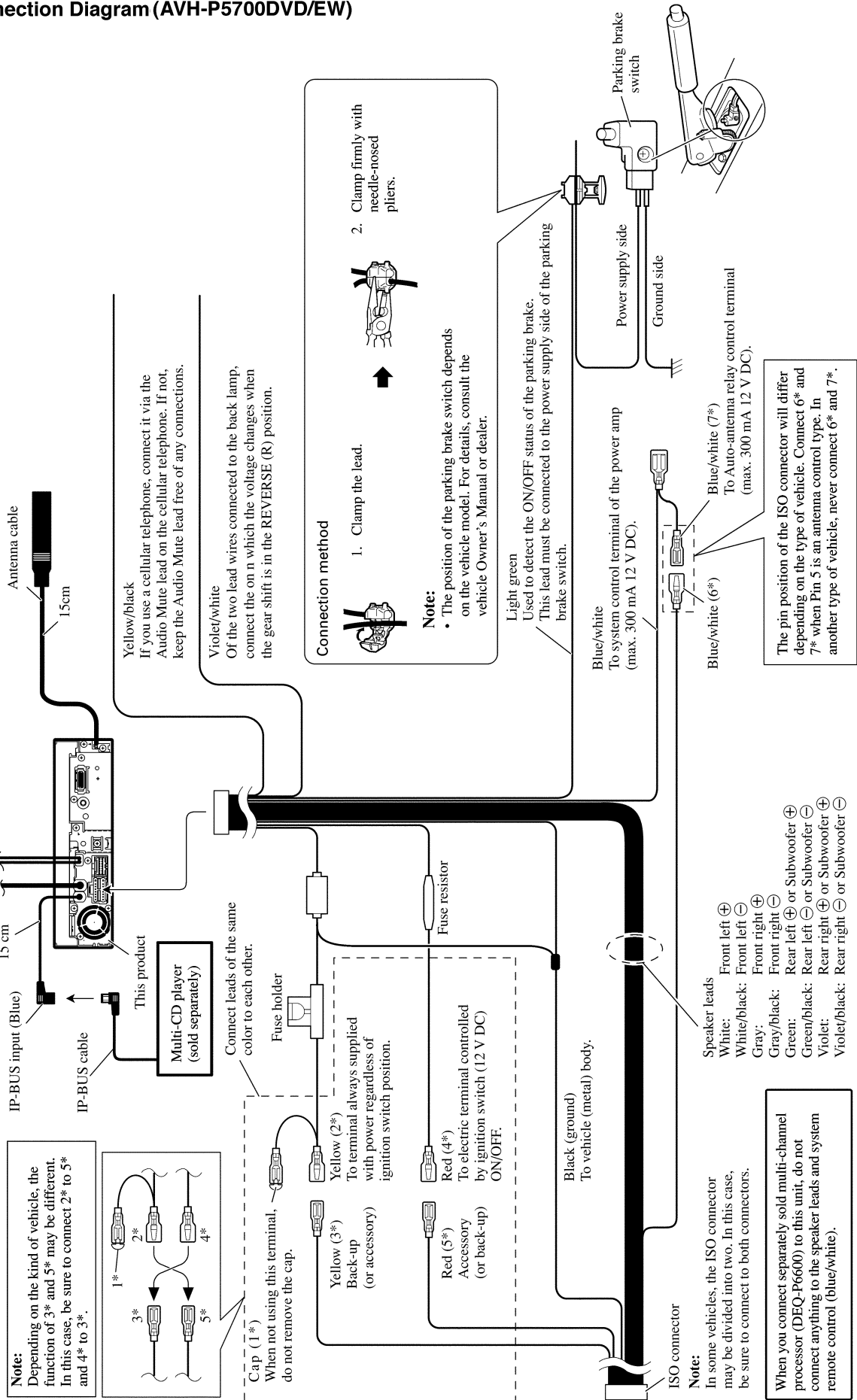
- **Replace the front panel by holding it upright to the unit and clipping it securely into the mounting hook. ▢**

E

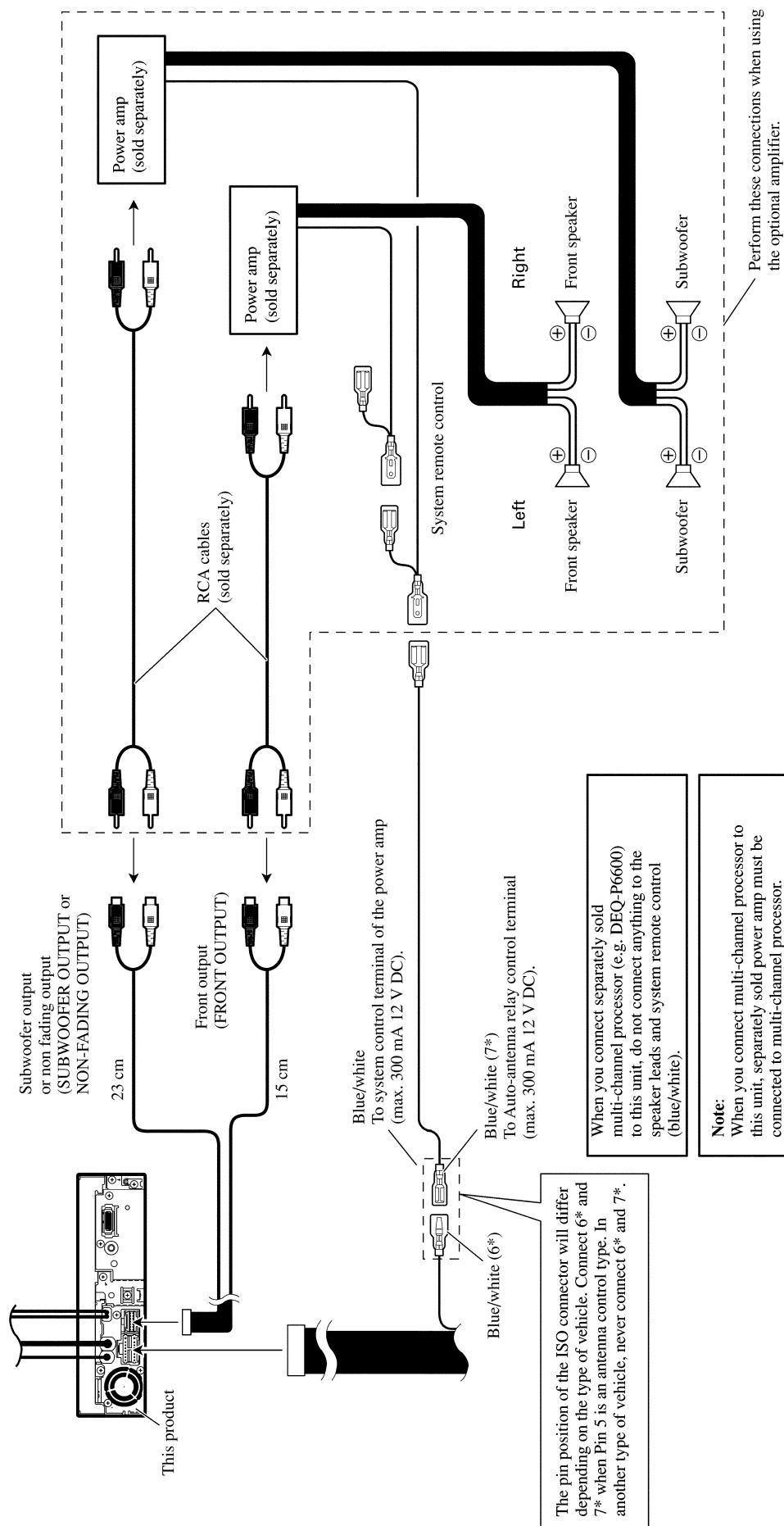
F

● Connection Diagram (AVH-P5700DVD/EW)

Connecting the power cord



When connecting to separately sold power amp



When connecting with a rear view camera

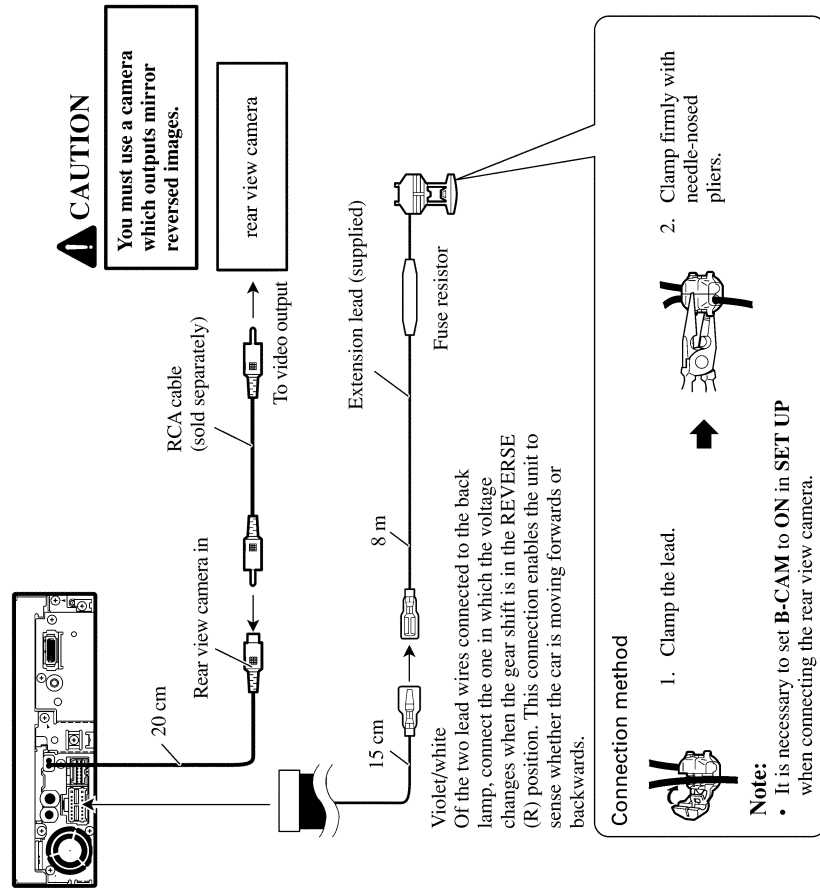
When using this product with a rear view camera, automatic switching to video from a rear view camera when the gear shift is moved to **REVERSE (R)** position is possible. When connecting to a navigation unit, rear view mode also allows you to check what is behind you while driving. For details, refer to the Operation Manual.

⚠ WARNING

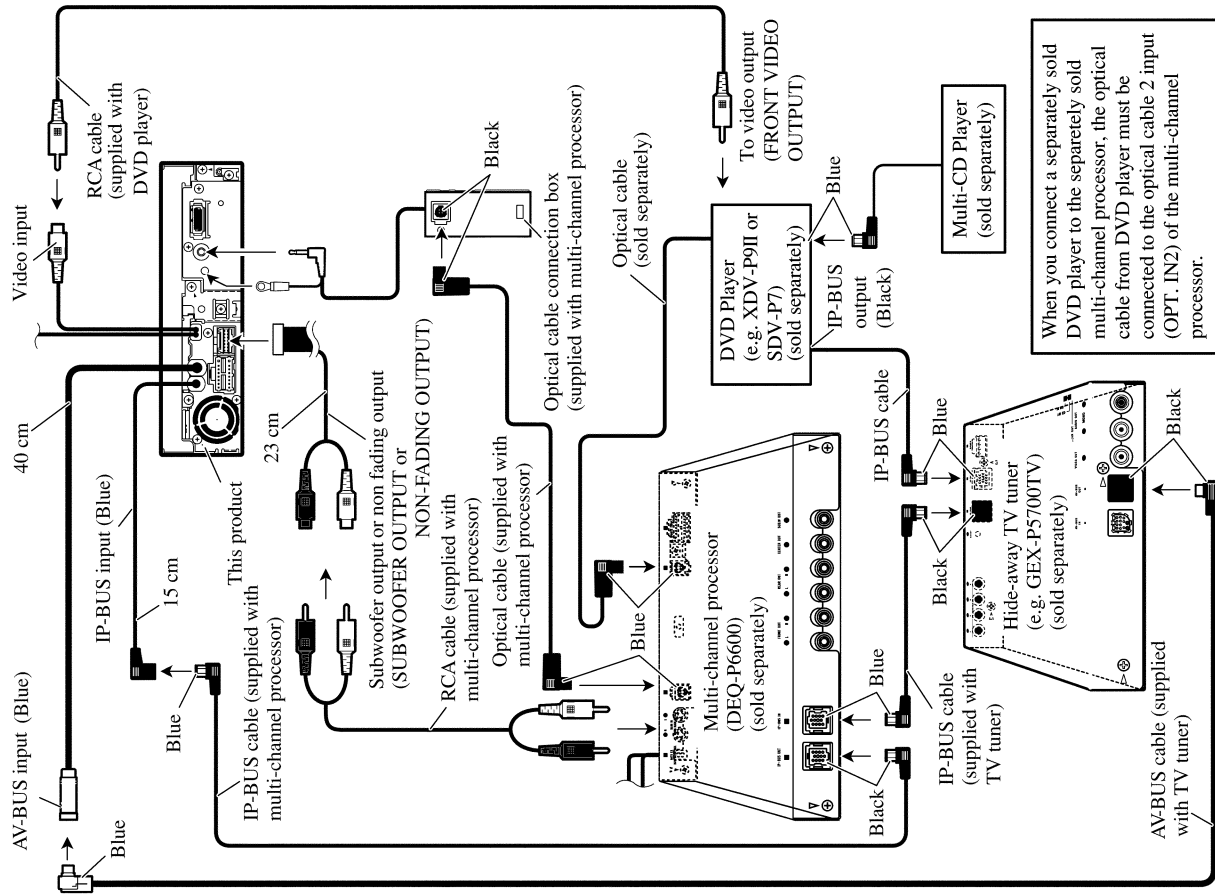
USE INPUT ONLY FOR REVERSE OR MIRROR IMAGE REAR VIEW CAMERA. OTHER USE MAY RESULT IN INJURY OR DAMAGE.

⚠ CAUTION

- The screen image may appear reversed.
- The rear view camera function is to use this product as an aid to keep an eye on trailers, or backing into a tight parking spot. Do not use this function for entertainment purposes.
- The object in rear view may appear closer or more distant than in reality.

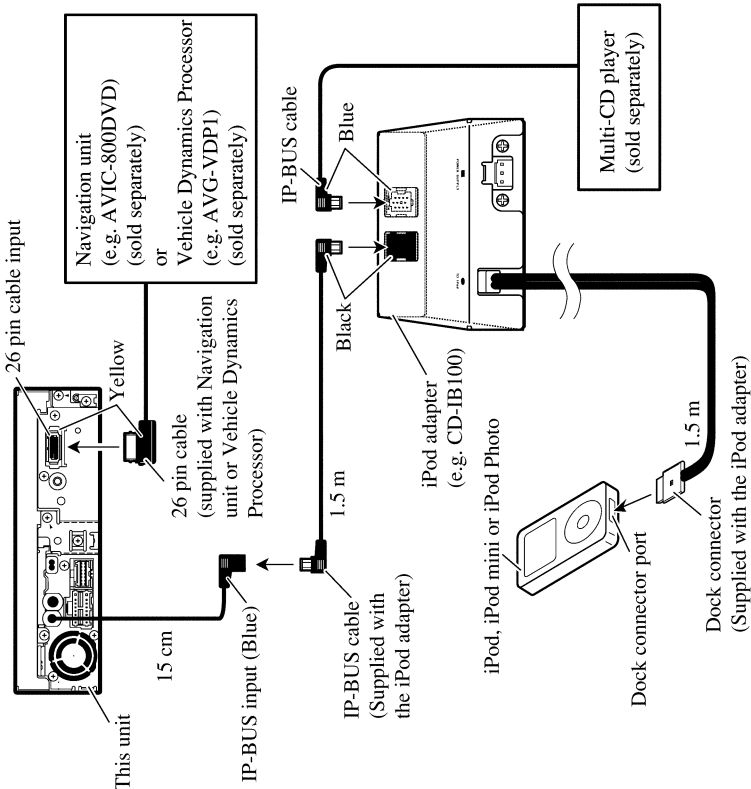


When connecting with a multi-channel processor



A
B
C
D
E
F

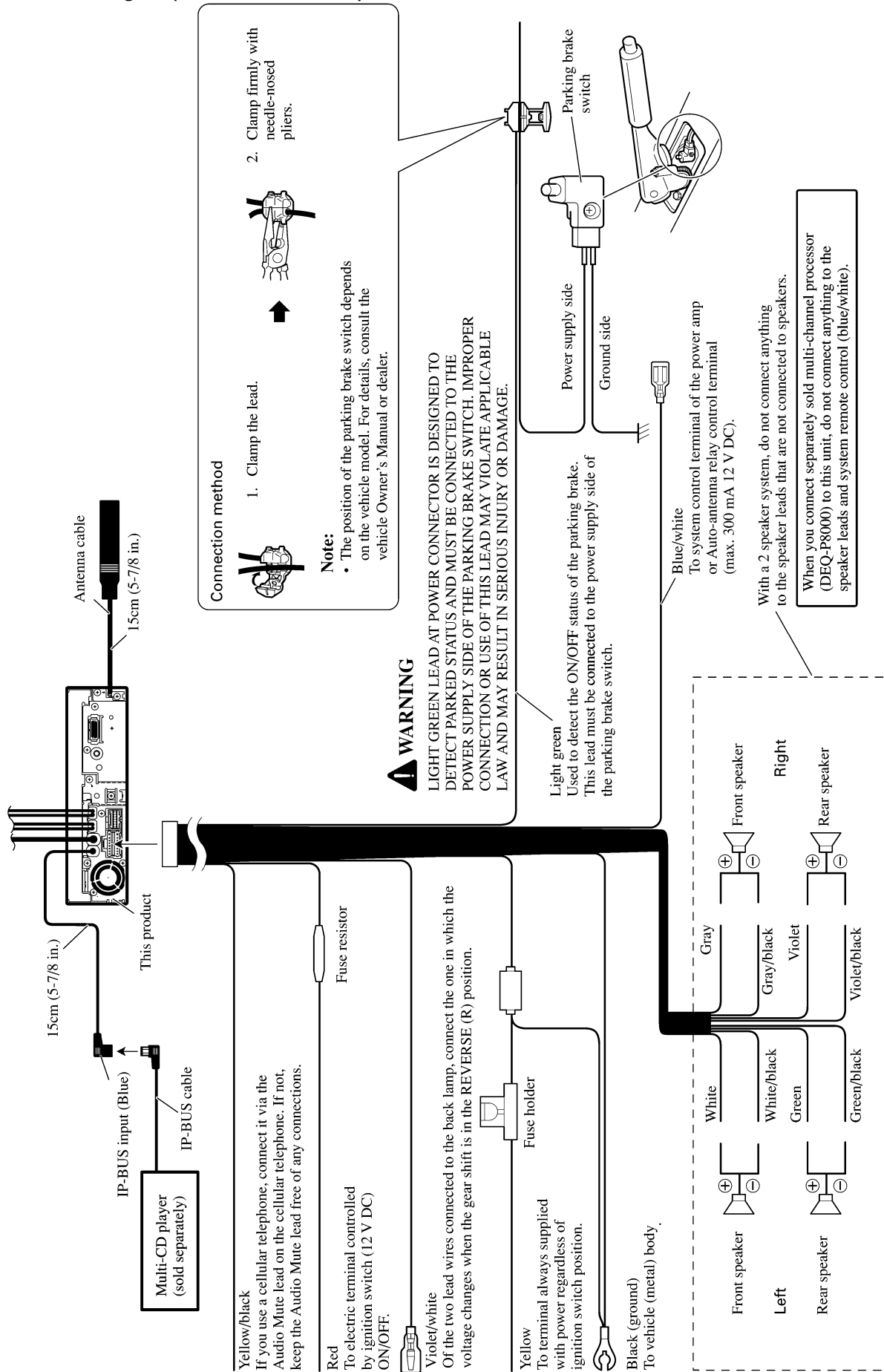
When connecting with navigation unit and iPod adapter



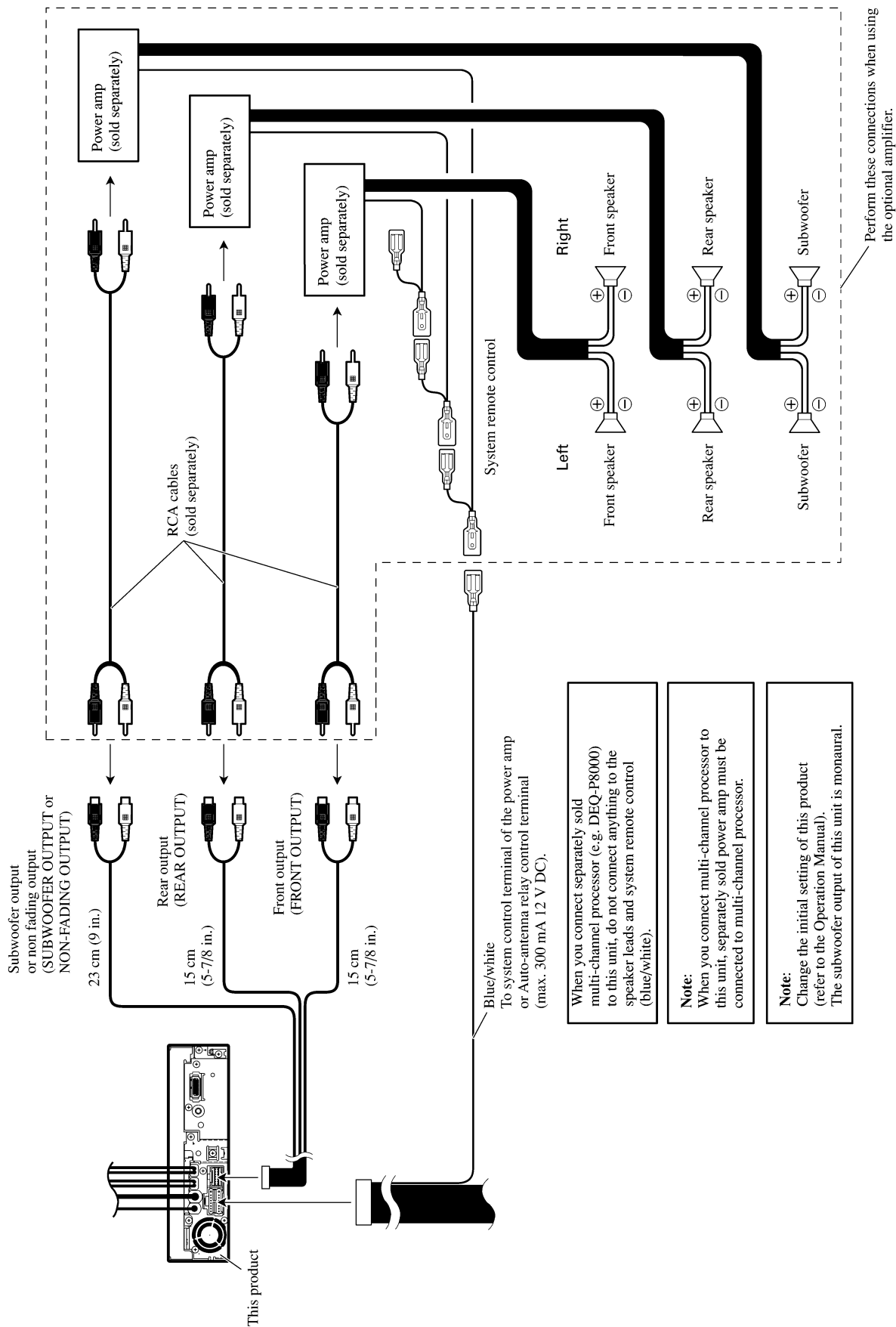
It is necessary to set **AV IN** to **M-DVD**
in **SET UP** when connecting to the DVD
player.

● Connection Diagram(AVH-P5700DVD/UC)

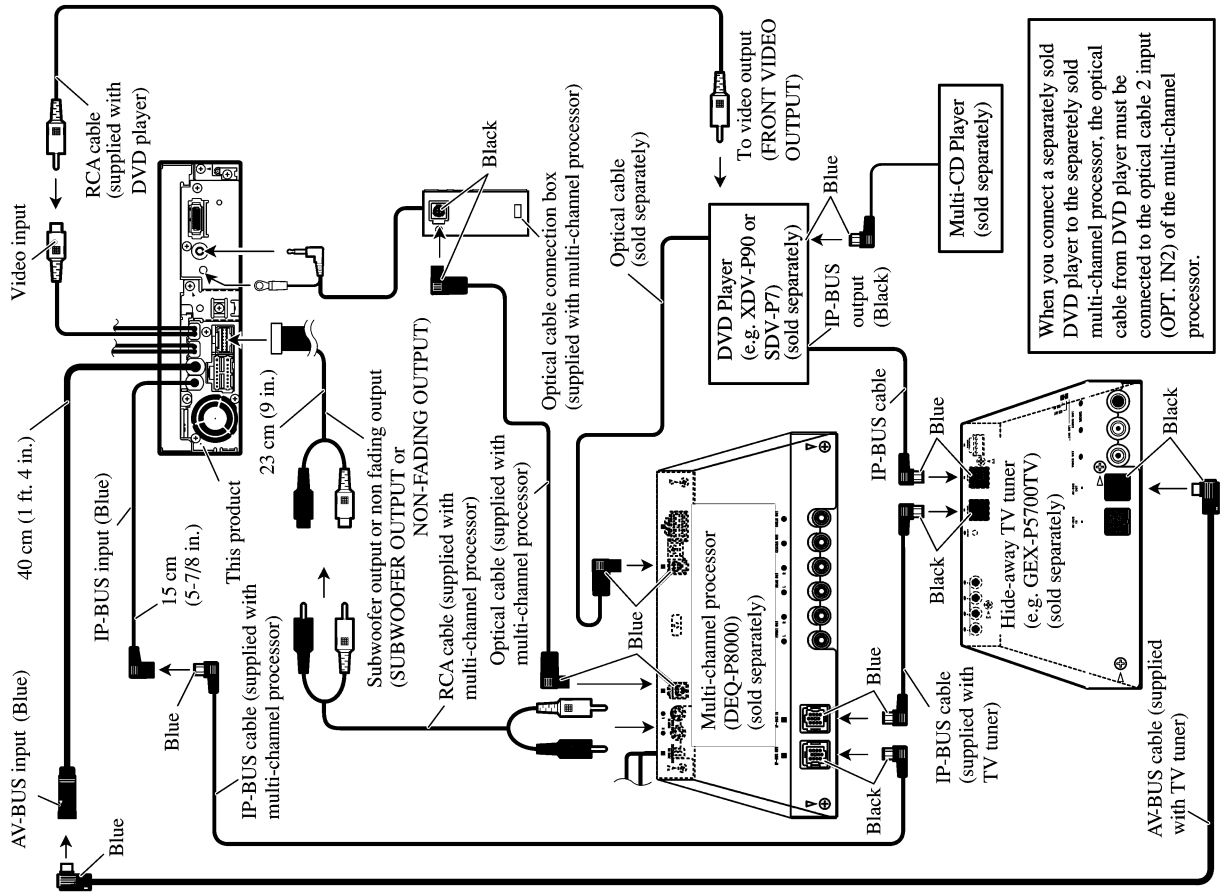
Connecting the power cord



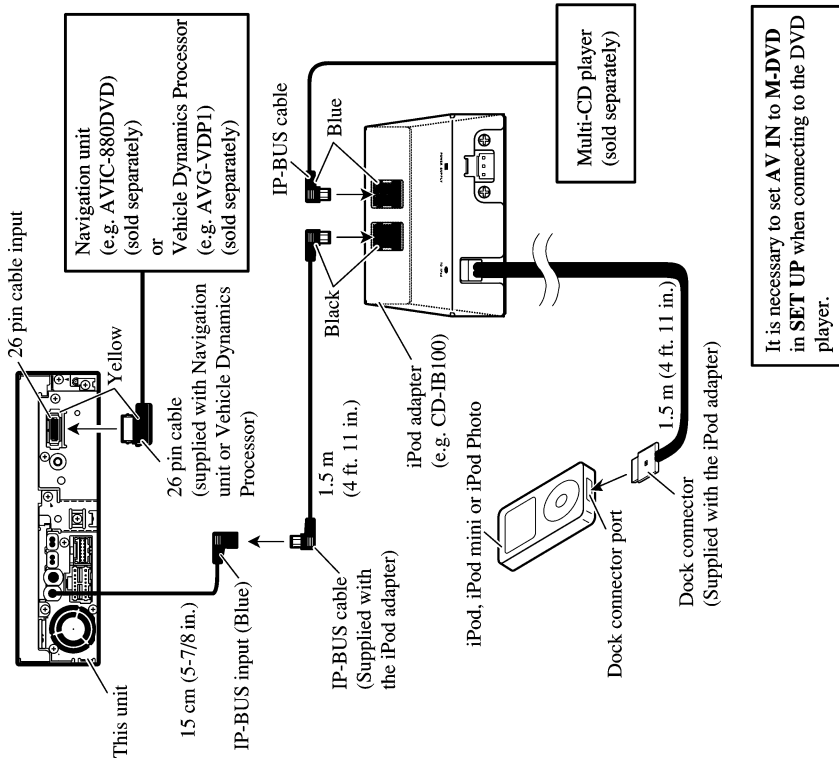
When connecting to separately sold power amp



When connecting with a multi-channel processor



When connecting with a navigation unit and an iPod adapter



● Jigs List

Name	Jig No.	Remarks
Test Disc	GGV1018	Adjusting the skew
Screw lock	GYL1001	Adjusting the skew
33 pin extension cable	GGD1262	Connecting the monitor PCB to relay PCB(GGF1462)
Relay PCB	GGF1462	Connecting the monitor PCB extension cable to flexible PCB
Relay PCB	GGF1461	Connecting the monitor PCB extension cable to flexible PCB
20 pin extension cable	GGD1209	Connecting the mother unit to relay PCB(GGF1461)
40 pin extension cable	GGD1170	Connecting the mother unit to relay PCB(GGF1461)
40 pin extension cable	GGD1284	Connecting the mother unit to DVD mechanism module
2 pin extension cable	GGD1439	Connecting the mother unit to DVD mechanism module