Pioneer *sound.vision.soul*

Service Manual

TOYOTA

ORDER NO.
CRT3571

LEXUS RX350

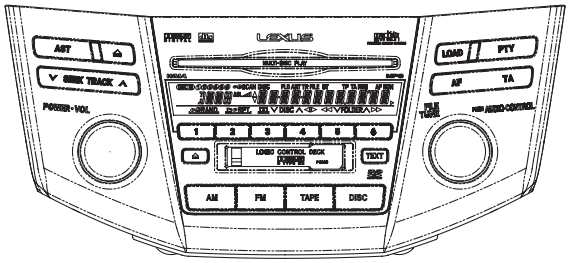
AUDIO SYSTEM
HEAD UNIT

VEHICLE	DESTINATION	PRODUCED AFTER	OEM PARTS No.	ID No.	PIONEER MODEL No.
RX350	EUROPE	January 2006	86120-48A90	P3501	FX-MG8667DVZT/EW
RX350	EUROPE	January 2006	86120-48D10	P3501	FX-MG8667DVZT91/EW
RX350	EUROPE	January 2006	86120-48A60	P3500	FX-MG8767DVZT/EW
RX350	EUROPE	January 2006	86120-48C80	P3500	FX-MG8767DVZT91/EW

Manufactured for TOYOTA
by PIONEER CORPORATION

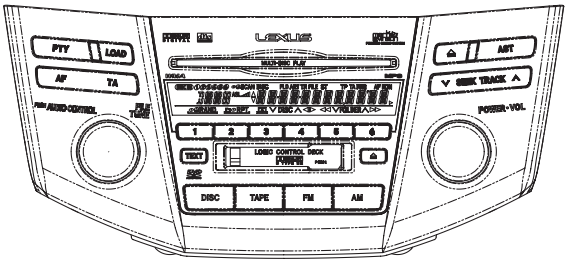
PUB.NO.CRT3571

FX-MG8767DVZT/EW



ID No.P3500

FX-MG8667DVZT/EW



ID No.P3501

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

Model No.	Order No.	Mech.Module	Remarks
CX-3150	CRT3495	MG4	DVD Mech. Module:Circuit Description, Mech. Description, Disassembly,etc.
CX-1011	CRT2406	3L	Casseette Mech. Module:Mech. Description, Disassembly

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Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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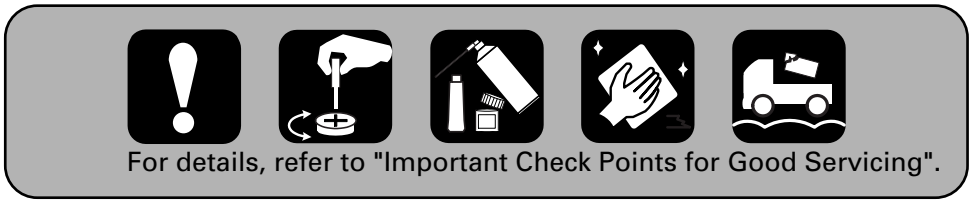
Supplementary model is identical to the original except for the addition of following items.

*:Non spare part

Description	FX-MG8667DVZT91/EW FX-MG8767DVZT91/EW
Cover	CEG1045 (x2)
Cover	CEG1324
Carton	CHG4861
Contain Box	CHL4861 (x1/2)
Air Cap	* CHW1945



SAFETY INFORMATION

● Service Precautions

1. You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.
2. Make sure to install grille when charging power.
   (* If you fail to do so, the main body will identify it as “a model without display” and the button will not function.)
3. Do not disassemble the panel assy.
   The button parts are greased by machine in order to give users comfortable touch.
   When the panel assy needs to be dismantled for repairs, change the panel assy itself.
4. The test mode is not available on this unit.
   To enter the test mode, load the mechanism to other unit designated for test mode and then try the mode by referring to its service manual.

● DVD and CD section precaution

1. 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.
2. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY" .
3. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.

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

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.**

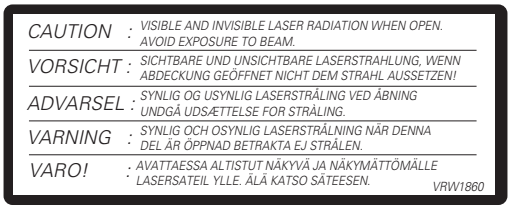
CAUTION

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

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)

Additional 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.

[Important Check Points for Good Servicing]

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

1. Product safety

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

① Use specified parts for repair.

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

② Do not perform modifications without proper instructions.

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

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

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

④ Make sure the screws are tightly fastened.

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

⑤ Make sure each connectors are correctly inserted.

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

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

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

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

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

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

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

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

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

⑩ Safe environment should be secured during servicing.

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

2. Adjustments

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

3. Lubricants, Glues, and Replacement parts

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

4. Cleaning

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

5. Shipping mode and Shipping screws

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

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1. SPECIFICATIONS

General

Power source.....13.2V DC(10.5–16.0 V allowable)
Grounding system.....Negative type
Backup current.....0.15mA or less
Weight.....3,177g

DVD player

System.....DVD video, DVD audio, Video CD, Compact disc audio system
Region number.....2
Usable discs.....DVD video, DVD audio, Video CD and Compact disc

Video
Video S/N.....50dB or more

Audio
Distortion.....0.2% or less
S/N.....80dB or more
Separation.....65dB or more
Stereo balance.....±2dB with in
Dynamic range.....80dB or more

Cassette player

Tape.....Compact cassette tape(C30–C90)
Tape speed.....4.76cm/sec.(+0.14cm/sec.,-0.05cm/sec.)
Wow and flutter.....0.2% or less(WRMS)
Distortion.....3% or less
S/N.....40dB or more
Crosstalk.....40dB or more
Stereo Separation.....30dB or more

FM tuner

Frequency.....87.5–108.0 MHz
S/N.....46dB or more
Distortion.....1.5% or less
Image interference.....35dB or more
IF interference.....80dB or more

AM(MW) tuner

Frequency.....522–1,611 kHz
S/N.....42dB or more
Distortion.....1.5% or less
IF interference.....55dB or more
Image interference.....45dB or more

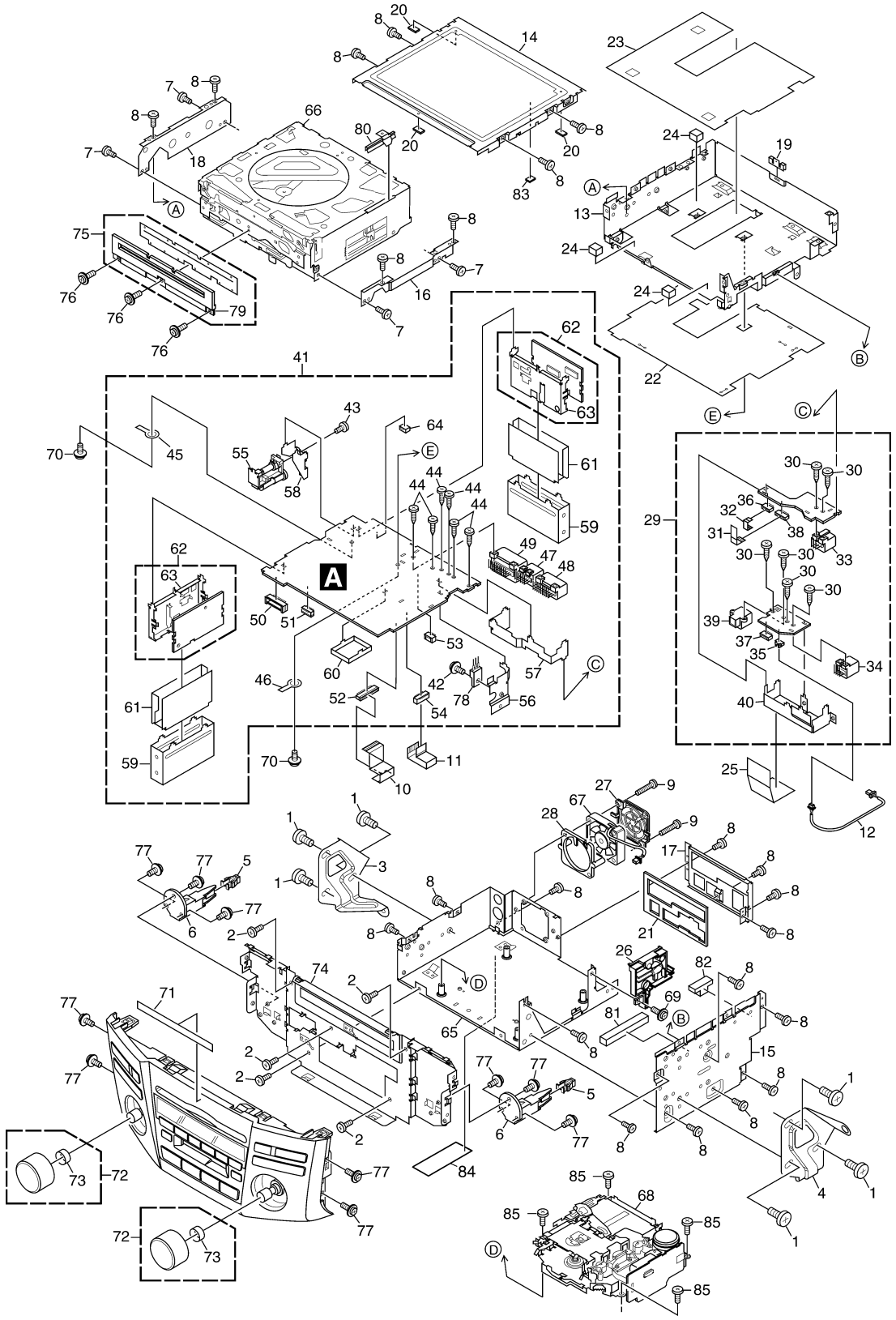
LW tuner

Frequency.....153–279 kHz
S/N.....42dB or more
Distortion.....1.5% or less
IF interference.....55dB or more
Image interference.....45dB or more

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.)

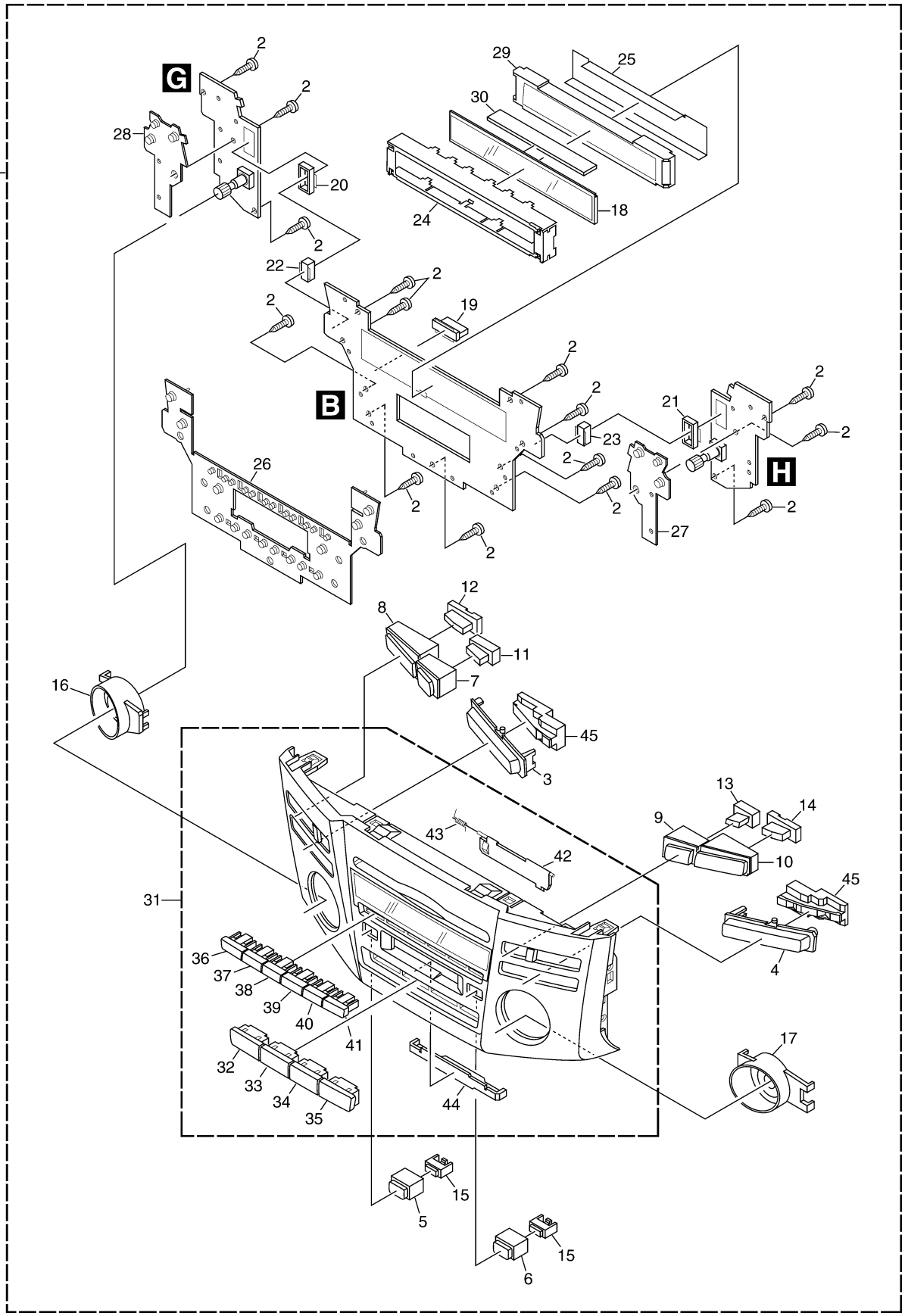
2.1 EXTERIOR(1)



EXTERIOR(1) SECTION PARTS LIST

Mark No.	Description	Part No.
1	Screw(Except -91 model)	BMZ50P080FTC
2	Screw	BSZ26P040FTC
3	86211-48030-A(Except -91 model)	CND1247
4	86212-48030-A(Except -91 model)	CND1248
5	90467-10203	CNV5641
6	Guide	CNV7306
7	Screw	BMZ30P040FTC
8	Screw	BSZ26P040FTC
9	Screw(M2.6x10)	CBA1964
10	Connector	CDE7679
11	Connector	CDE7684
12	Cord Assy	CDE8026
13	Chassis	CNA2869
14	Case	CNB3049
15	Holder	CNB3226
16	Holder	CND2427
17	Holder	CND2531
18	Holder	CND2721
19	Earth Plate	CND3060
20	Cushion	CNM9507
21	Cushion	CNM9842
22	Insulator	CNM9843
23	Insulator	CNM9844
24	Conductive Cushion	CNM9847
25	Insulator	CNM9905
26	Holder	CNV8764
27	Holder	CNV8807
28	Plate	CNV8808
29	Connector Unit	CWM9654
30	Screw(M3x6)	CBA1393
31	Connector	CDE7686
32	Connector	CDE8029
33	Connector(CN1002)	CKM1470
34	Connector(CN1102)	CKM1480
35	Connector(CN1103)	CKS4822
36	Connector(CN1005)	CKS5244
37	Connector(CN1104)	CKS5244
38	Connector(CN1003)	CKS5251
39	Socket(CN1101)	CKS5316
40	Holder	CND2433
41	Main Unit	CWN1110
42	Screw	ASZ26P060FTC
43	Screw	BMZ30P040FTC
44	Screw(M3x6)	CBA1393
45	Terminal(CN101)	CKF1064
46	Terminal(CN304)	CKF1064
47	Connector(CN301)	CKM1466
48	Connector(CN303)	CKM1467
49	Connector(CN302)	CKM1469
50	Connector(CN408)	CKS4266
51	Connector(CN501)	CKS4853
52	Connector(CN407)	CKS4958
53	Connector(CN403)	CKS5279
54	Connector(CN404)	CKS5280
55	Connector(ANT11)	CKX1064
56	Holder	CND2431
57	Holder	CND2432
58	Holder	CND2434
59	Shield	CND2436
60	Shield	CND3061
61	Insulator	CNM9861
62	FM/AM Tuner Unit	CWE1839
63	Holder	CND2144
64	Connector(CN701)	VKN1940
65	Chassis Unit	CXC5466
66	Mechanism Module(Service)	CXX2102
67	Fan Motor	CXM1336
68	Cassette Mechanism Module	EXK4298
69	Screw	ISS26P050FTC
70	Screw	PMH26P060FTC
71	Label	CRW1455
72	Knob Unit	CXC4801
73	Spring	CBL1711
74	Frame Unit	CXC4809
75	Door Unit	CXC4846
76	Screw	IMS20P022FTC
77	Screw	IMS26P060FTC
78	Transistor(Q755)	2SB1185
79	Door	CAT2730
80	Spring	CBL1727
81	Cushion	CNN1205
82	Cushion	CNN1207
83	Sheet	CNN1208
84	Label	VRW1860
85	Screw	BSZ26P050FTC

2.2 EXTERIOR(2)



(1)EXTERIOR(2) SECTION PARTS LIST

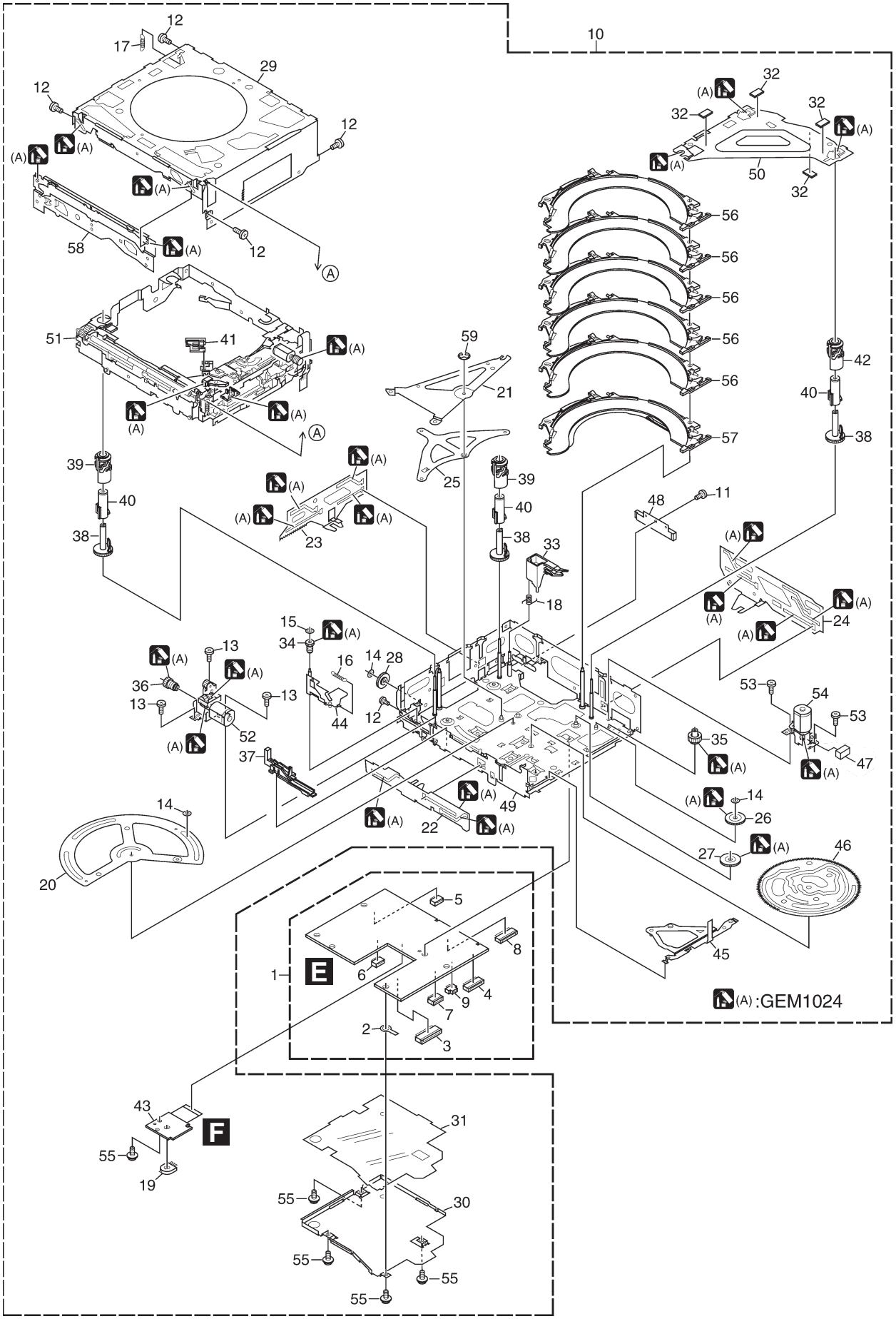
Mark	No.	Description	Part No.
	1	Grille Assy	See Contrast table(2)
	2	Screw	BPZ20P080FTC
	3	Button(AF•TA)	See Contrast table(2)
	4	Button(SEEK•TRACK)	See Contrast table(2)
	5	Button(TEXT)	See Contrast table(2)
	6	Button(TAPE EJECT)	See Contrast table(2)
	7	Button(LOAD)	See Contrast table(2)
	8	Button(PTY)	See Contrast table(2)
	9	Button(DISC EJECT)	See Contrast table(2)
	10	Button(AST)	See Contrast table(2)
	11	Lighting Conductor	CNV8527
	12	Lighting Conductor	CNV8528
	13	Lighting Conductor	CNV8529
	14	Lighting Conductor	CNV8530
	15	Lighting Conductor	CNV8532
	16	Lighting Conductor	CNV8678
	17	Lighting Conductor	CNV8679
	18	LCD(LCD801)	CAW1867
	19	Connector(CN802)	CKS4771
	20	Connector(CN980)	CKS5202
	21	Connector(CN990)	CKS5202
	22	Connector(CN801)	CKS5203
	23	Connector(CN803)	CKS5203
	24	Holder	CND2773
	25	Sheet	CNM9563
	26	Rubber	CNV8536
	27	Rubber	CNV8537
	28	Rubber	CNV8538
	29	Lighting Conductor	CNV8539
	30	Connector	CNV8540
	31	Grille Assy	See Contrast table(2)
	32	Button(DISC)	See Contrast table(2)
	33	Button(TAPE)	See Contrast table(2)
	34	Button(FM)	See Contrast table(2)
	35	Button(AM)	See Contrast table(2)
	36	Button(1)	CAC9217
	37	Button(2)	CAC9218
	38	Button(3)	CAC9219
	39	Button(4)	CAC9220
	40	Button(5)	CAC9221
	41	Button(6)	CAC9222
	42	Door	See Contrast table(2)
	43	Spring	CBH2663
	44	Lighting Conductor	CNV8533
	45	Holder Unit	CXC6105

(2) CONTRAST TABLE

FX-MG8667DVZT/EW,FX-MG8667DVZT91/EW,FX-MG8767DVZT/EW and FX-MG8767DVZT91/EW are constructed the same except for the following:

Mark	No.	Description	FX-MG8667DVZT/EW FX-MG8667DVZT91/EW	FX-MG8767DVZT/EW FX-MG8767DVZT91/EW
	1	Grille Assy	CXC4733	CXC4732
	3	Button(AF•TA)	CAC9254	CAC9205(SEEK•TRACK)
	4	Button(SEEK•TRACK)	CAC9253	CAC9252(AF•TA)
	5	Button(TEXT)	CAC9242	CAC9211(TAPE EJECT)
	6	Button(TAPE EJECT)	CAC9241	CAC9212(TEXT)
	7	Button(LOAD)	CAC9244	CAC9213(DISC EJECT)
	8	Button(PTY)	CAC9248	CAC9245(AST)
	9	Button(DISC EJECT)	CAC9243	CAC9215(LOAD)
	10	Button(AST)	CAC9247	CAC9246(PTY)
	31	Grille Assy	CXC4776	CXC4775
	32	Button(DISC)	CAC9236	CAC9232(AM)
	33	Button(TAPE)	CAC9235	CAC9208(FM)
	34	Button(FM)	CAC9234	CAC9209(TAPE)
	35	Button(AM)	CAC9233	CAC9210(DISC)
	42	Door	CAT2695	CAT2694

2.3 DVD MECHANISM MODULE

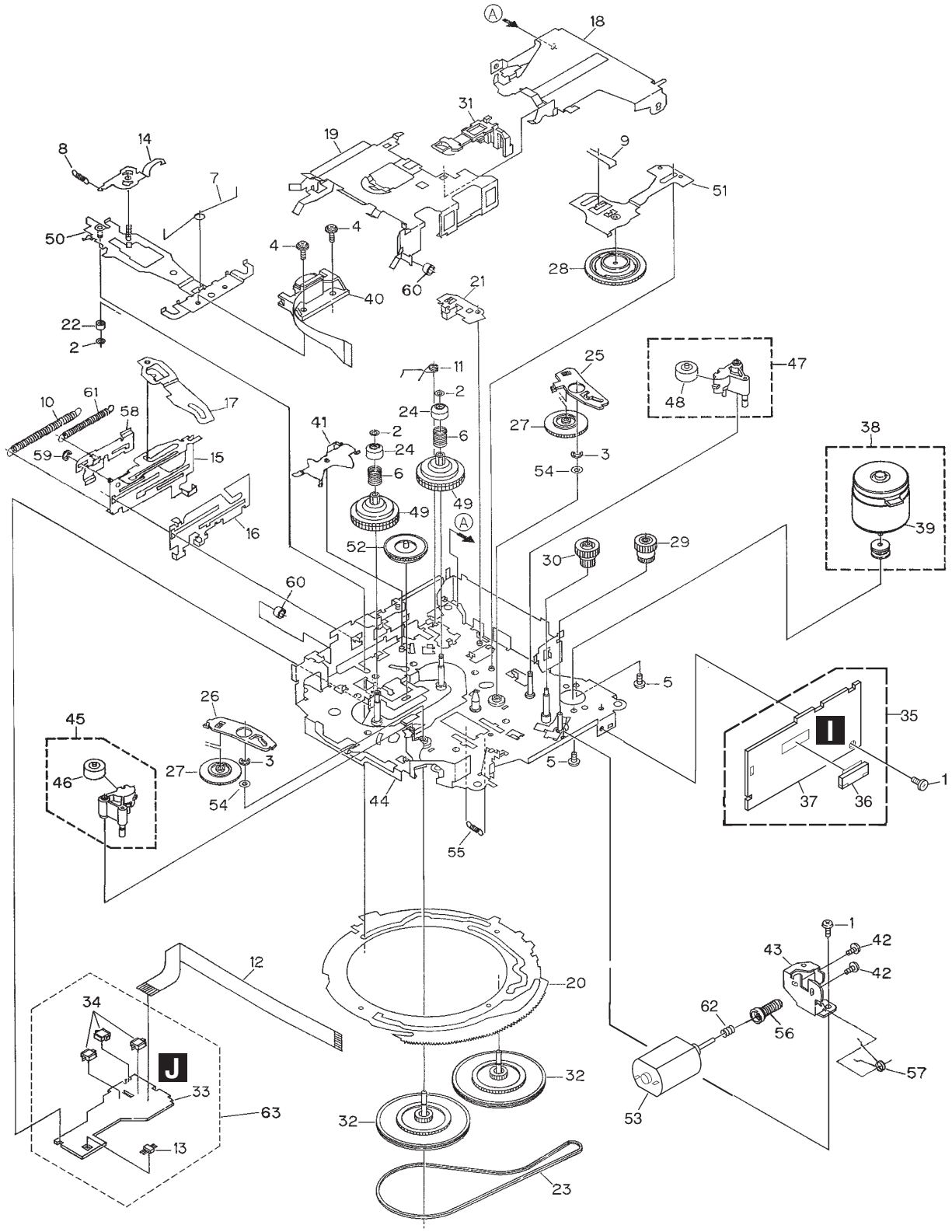


DVD MECHANISM MODULE SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	DVD Core Unit	CWX3050
	2	Terminal(CN1902)	CKF1064
	3	Connector(CN1901)	CKS3971
	4	Connector(CN1201)	CKS4273
	5	Connector(CN1903)	CKS4374
	6	Connector(CN2001)	CKS4374
	7	Connector(CN1881)	CKS4426
	8	Connector(CN1101)	CKS4625
	9	Connector(CN1551)	CKS4817
	10	Mechanism Unit(Service)	CXX2097
	11	Screw	BMZ20P025FTC
	12	Screw(M2x2.5)	CBA1623
	13	Screw(M2x2.5)	CBA1823
	14	Washer	CBF1064
	15	Washer	CBF1094
	16	Spring	CBH2720
	17	Spring	CBH2731
	18	Spring	CBH2732
	19	Variable Resistor(VR13)	CCW1029
*	20	Gear	CND1924
*	21	Arm	CND1926
	22	Stair	CND1930
	23	Stair	CND1931
	24	Stair	CND1932
*	25	Arm	CND1933
*	26	Gear	CND1936
*	27	Gear	CND1937
	28	Gear	CND1939
	29	Case	CND2656
	30	Plate	CND2902
	31	Sheet	CNM9746
	32	Sheet	CNM9774
	33	Arm	CNV7850
	34	Gear	CNV7851
	35	Gear	CNV7854
	36	Gear	CNV7856
	37	Holder	CNV7861
	38	Cam	CNV7866
	39	Cam	CNV7867
	40	Cam	CNV7868
	41	Arm	CNV7869
	42	Cam	CNV7932
	43	PCB Assy	CWX2986
*	44	Lever Unit	CXC2392
*	45	Lever Unit	CXC2393
*	46	Cam Gear Unit	CXC2435
	47	Sheet	CNN1064
	48	PCB Assy	CXC3142
*	49	Chassis Unit	CXC4341
	50	Holder Unit	CXC4342
	51	Stage Assy(Service)	CXX1957
	52	ELV Motor Assy(M2)	CXC4350
	53	Screw	JFZ20P020FTC
	54	Cam Motor Assy(M1)	CXC4349
	55	Screw	IMS26P025FTC
	56	Tray Assy	CXC4354
	57	Lower Tray Assy	CXC6755
	58	Shutter Assy	CXC4411
	59	Washer	YE15FTC

2.4 CASSETTE MECHANISM MODULE

For grease application, refer to the service manual for CX-1011 (CRT2406).

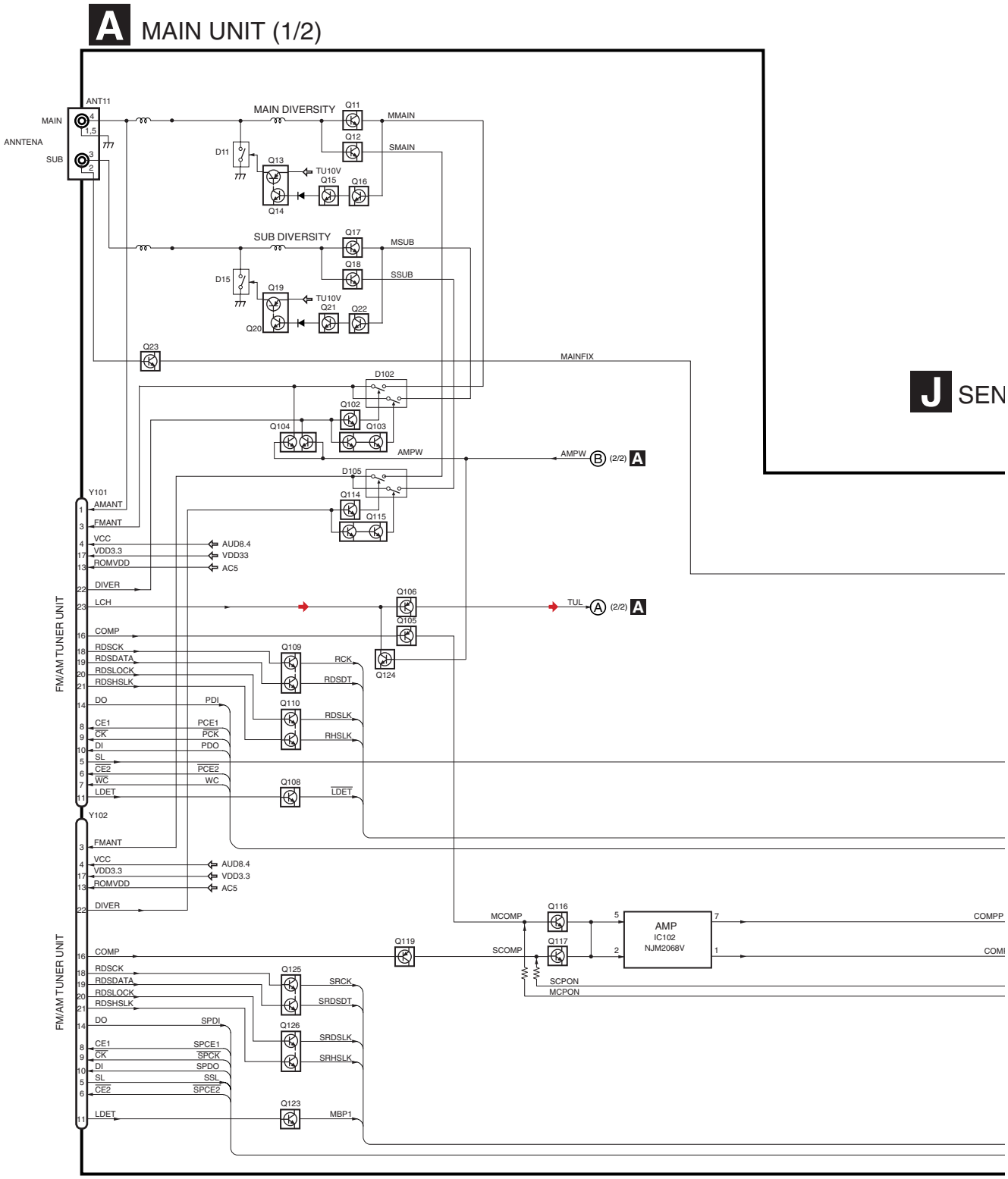


CASSETTE MECHANISM MODULE SECTION PARTS LIST

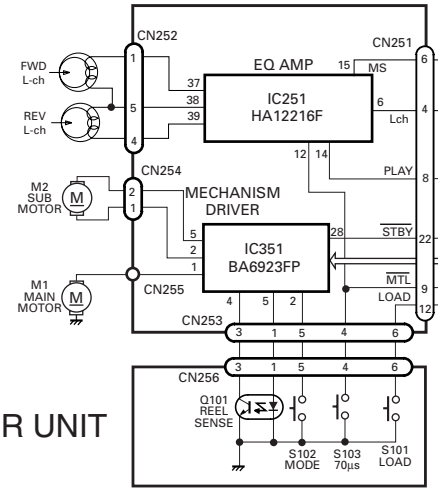
Mark	No.	Description	Part No.
	1	Screw	BSZ20P040FTC
	2	Washer	CBF1037
	3	Washer	CBG1003
	4	Screw	EBA1028
	5	Screw	BMZ20P022FTC
	6	Spring	EBH1653
	7	Spring	EBH1642
	8	Spring	EBH1641
	9	Spring	EBH1626
	10	Spring	EBH1627
	11	Spring	EBH1648
	12	Cord	EDD1024
	13	Photo-reflector(Q101)	EGN1004
	14	Arm	ENC1526
	15	Lever Unit	EXA1610
	16	Lever	ENC1543
	17	Arm	ENC1532
	18	Frame	ENC1533
	19	Holder	ENC1547
	20	Gear	ENC1535
	21	Arm	ENC1550
	22	Roller	ENR1040
	23	Belt	ENT1027
	24	Collar	ENV1508
	25	Arm	ENV1539
	26	Arm	ENV1540
	27	Gear	ENV1569
	28	Gear	ENV1547
	29	Gear	ENR1044
	30	Worm Wheel	ENV1559
	31	Lever	ENV1551
	32	Flywheel	ENV1607
	33	Gathering PCB	ENX1073
	34	Switch(S101,S102,S103)	ESG1007
	35	Deck Unit	EWM1055
	36	Plug(CN251)	EKS1026
	37	Gathering PCB	ENX1080
	38	Motor Unit(M1)	EXA1618
	39	Motor	EXM1035
	40	Head Assy(HD1)	EXA1594
	41	Arm	ENC1537
	42	Screw	EBA1031
	43	Bracket	ENC1559
	44	Chassis Unit	EXA1636
	45	Pinch Holder Unit	EXA1608
	46	Pinch Roller	ENV1518
	47	Pinch Holder Unit	EXA1607
	48	Pinch Roller	ENV1518
	49	Reel Unit	EXA1625
	50	Head Base Unit	EXA1611
	51	Lever Unit	EXA1587
	52	Gear Unit	EXA1632
	53	Motor Unit(M2)	EXA1660
	54	Washer	HBF-179
	55	Spring	EBH1537
	56	Worm Gear	ENV1564
	57	Spring	EBH1672
	58	Lever	ENC1548
	59	Washer	YE15FTC
	60	Tube	ENM1039
	61	Spring	EBH1645
	62	Spring	EBH1545
	63	Sensor Unit	EWM1057

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

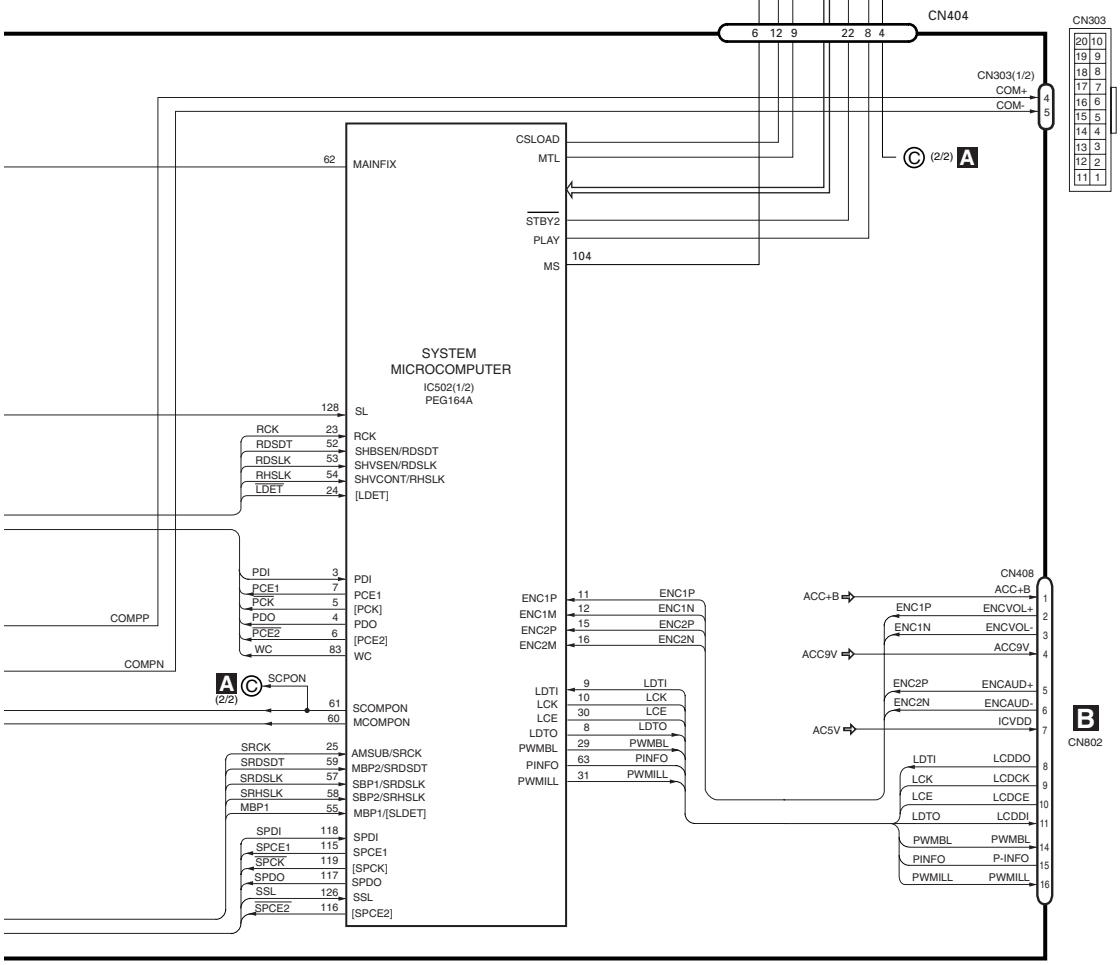
3.1 BLOCK DIAGRAM



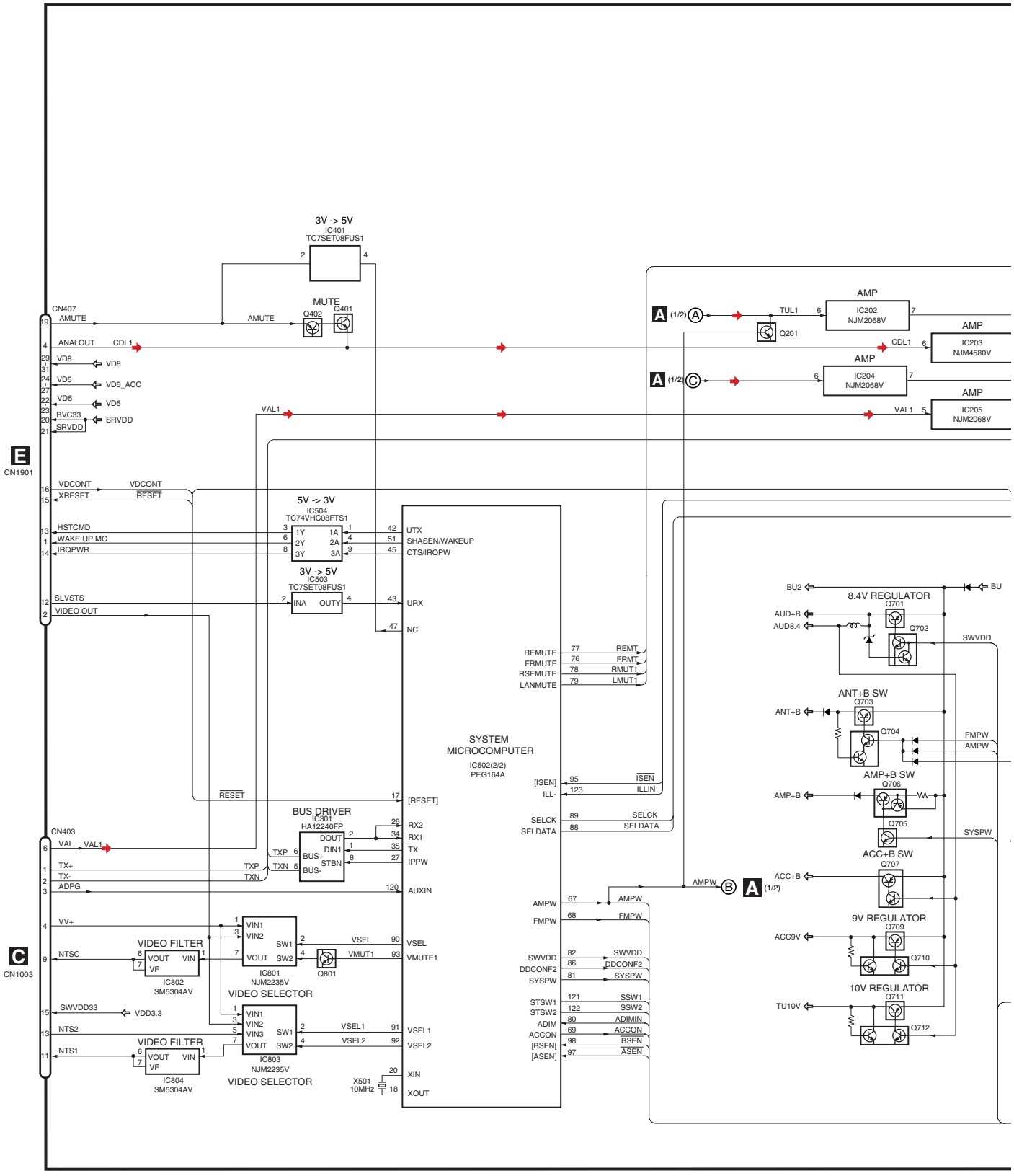
I DECK UNIT

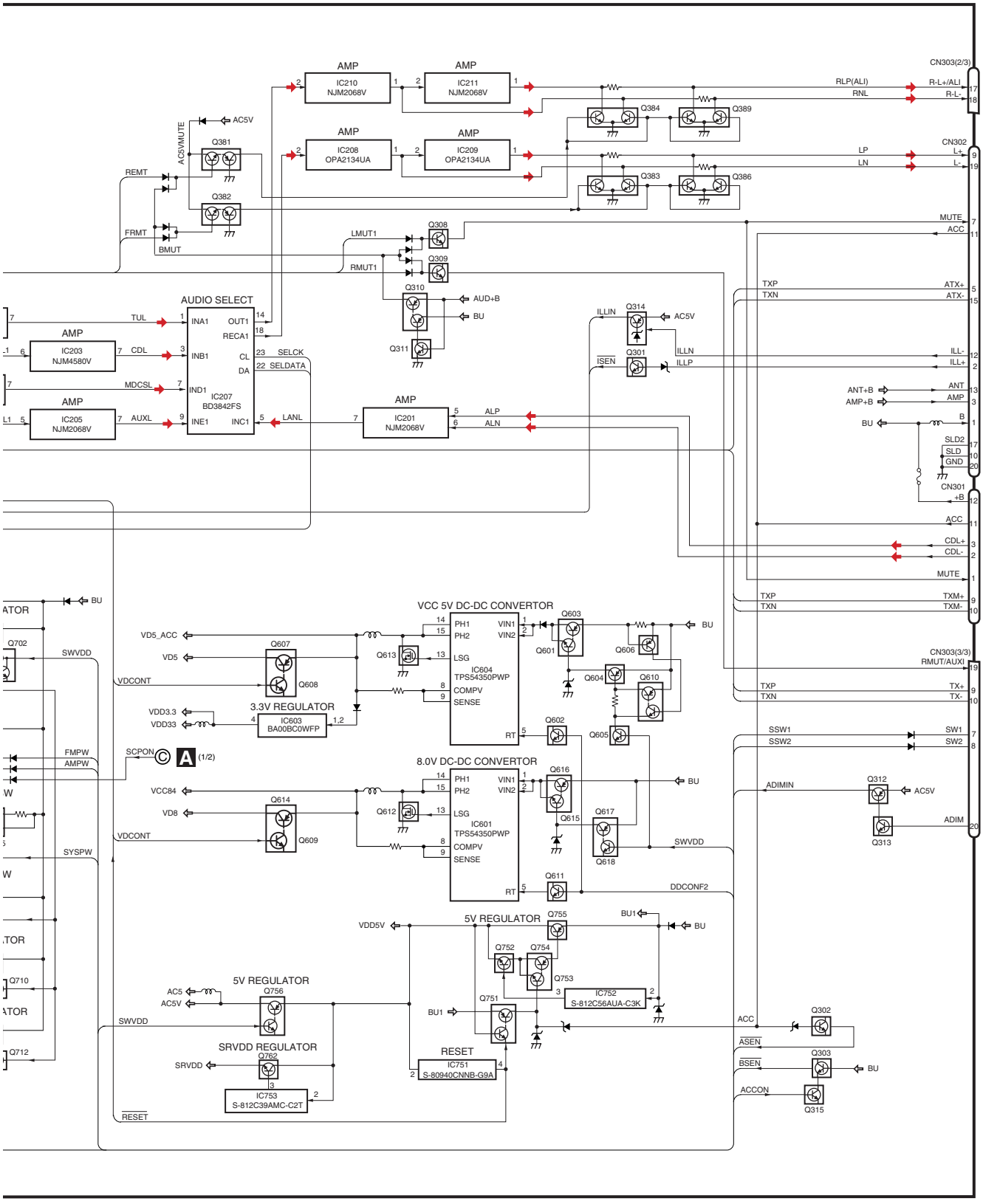


J SENSOR UNIT

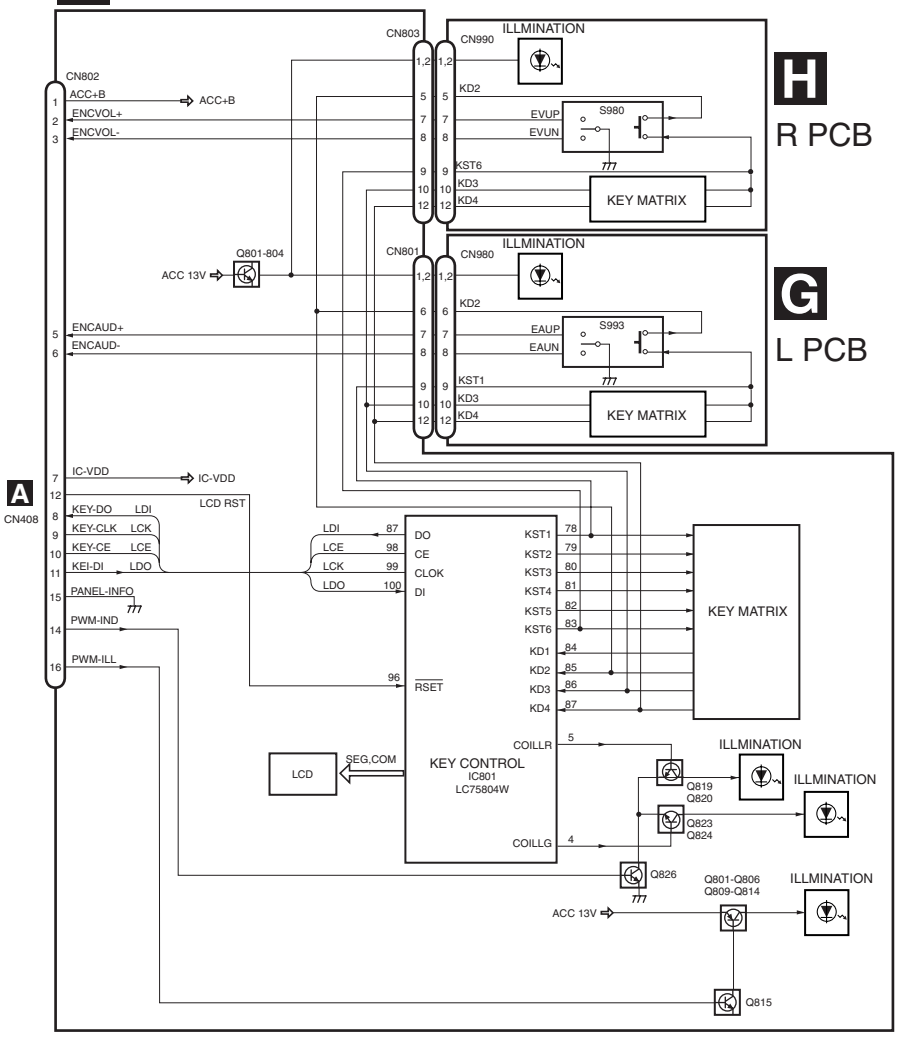


A MAIN UNIT (2/2)

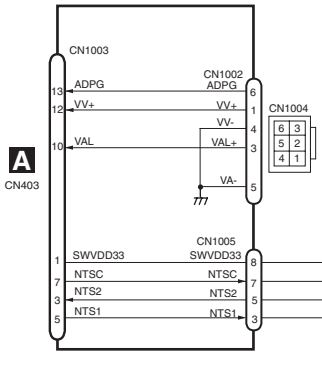



AMP
IC210 NJM2068V
IC211 NJM2068V
IC208 OPA2134UA
IC209 OPA2134UA
AC5V
AC5VMUTE
Q381
Q382
REMT
FRMT
BMUT
Q384
Q389
Q383
Q386
RLP(ALI)
RNL
LP
LN
CN303(2/3)
R-L+/ALI
R-L-
CN302
L+
L-
MUTE
ACC
LMUT1
RMUT1
Q308
Q309
Q310
Q311
AUD+B
BU
AUDIO SELECT
IC207 BD3842FS
INA1
INB1
IND1
INE1
OUT1
RECA1
CL
DA
INC1
TUL
CDL
MDCSL
AUXL
SELCK
SELDATA
LANL
IC203 NJM4580V
IC205 NJM2068V
IC201 NJM2068V
ALP
ALN
ILLIN
ISEN
Q314
Q301
ILLN
ILLP
TXP
TXN
ATX+
ATX-
ILL-
ILL+
ANT+B
AMP+B
ANT
AMP
B
SLD2
SLD
GND
CN301
+B
CDL+
CDL-
TXM+
TXM-
CN303(3/3)
RMUT/AUXL
TX+
TX-
SSW1
SSW2
SW1
SW2
ADIMIN
ADIM
Q312
Q313
VCC 5V DC-DC CONVERTOR
IC604 TPS54350PWP
PH1
PH2
LSG
COMPV
SENSE
VIN1
VIN2
RT
Q601
Q602
Q603
Q604
Q605
Q606
Q607
Q608
Q610
Q613
VD5_ACC
VD5
VDCONT
3.3V REGULATOR
IC603 BA00BC0WFP
VDD3.3
VDD33
8.0V DC-DC CONVERTOR
IC601 TPS54350PWP
Q609
Q611
Q612
Q614
Q615
Q616
Q617
Q618
VCC84
VD8
SWVDD
DDCONF2
5V REGULATOR
Q752
Q753
Q754
Q755
IC752 S-812C56AUA-C3K
VDD5V
BU1
Q751
5V REGULATOR
Q756
AC5
AC5V
SRVDD REGULATOR
Q762
SRVDD
IC753 S-812C39AMC-C2T
RESET
IC751 S-80940CNNB-G9A
ASEN
BSEN
ACCON
Q302
Q303
Q315
SCPON
(1/2)
FMPW
AMPW
SYSPW
Q702
Q710
Q712

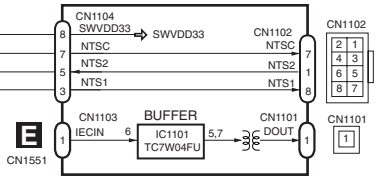
B KEYBOARD PCB



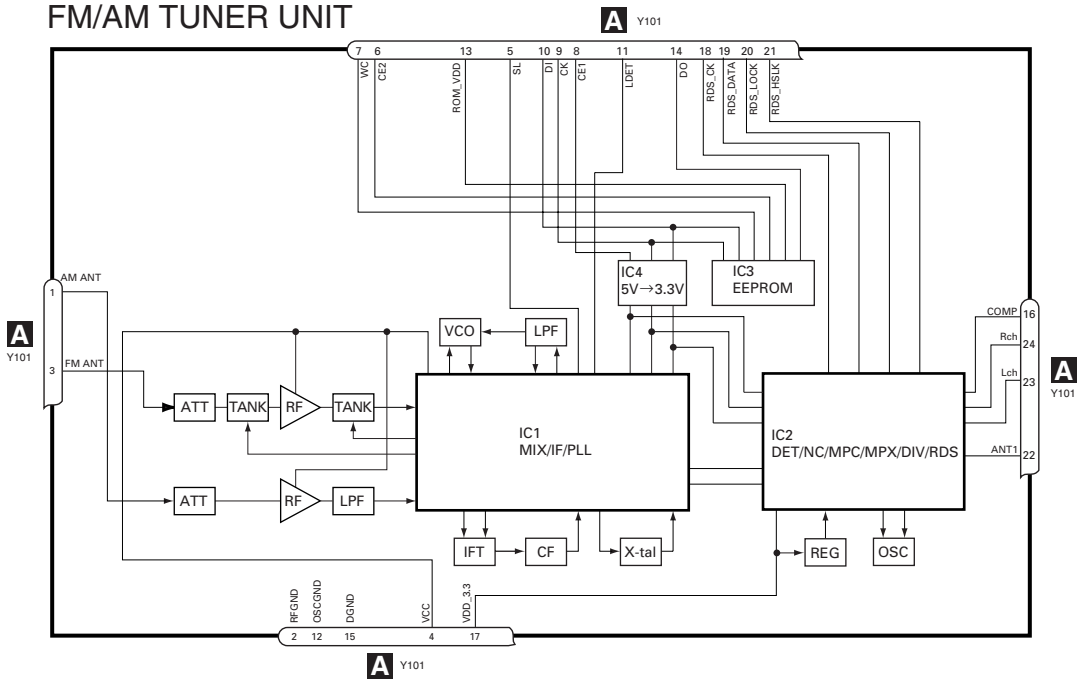
C CONNECTOR1 PCB



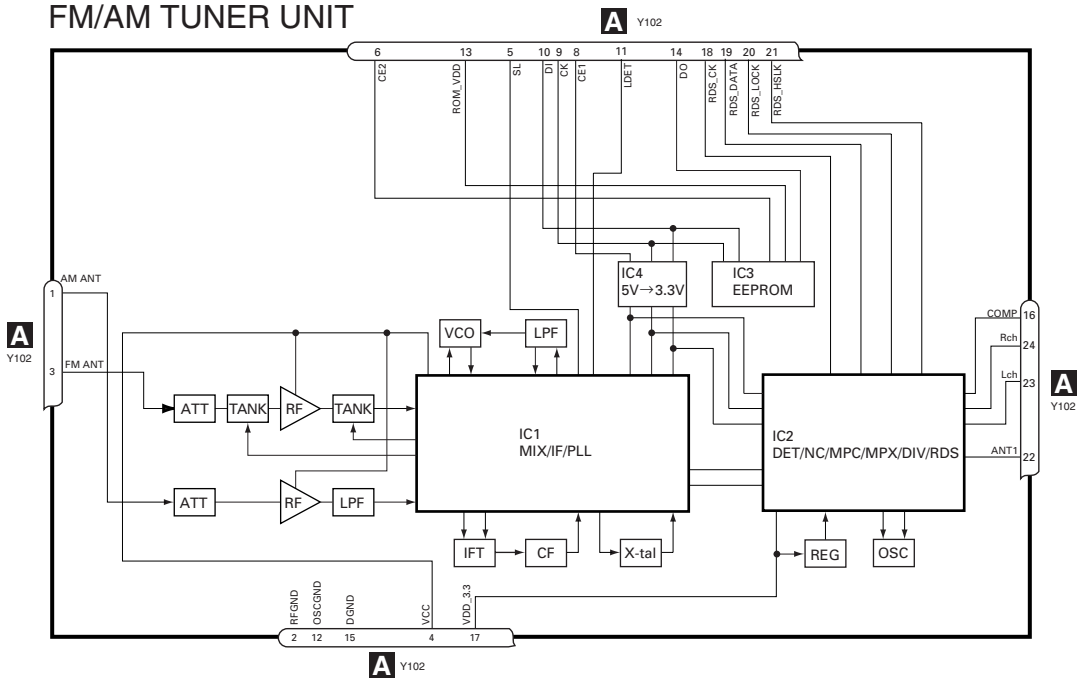
D CONNECTOR2 PCB



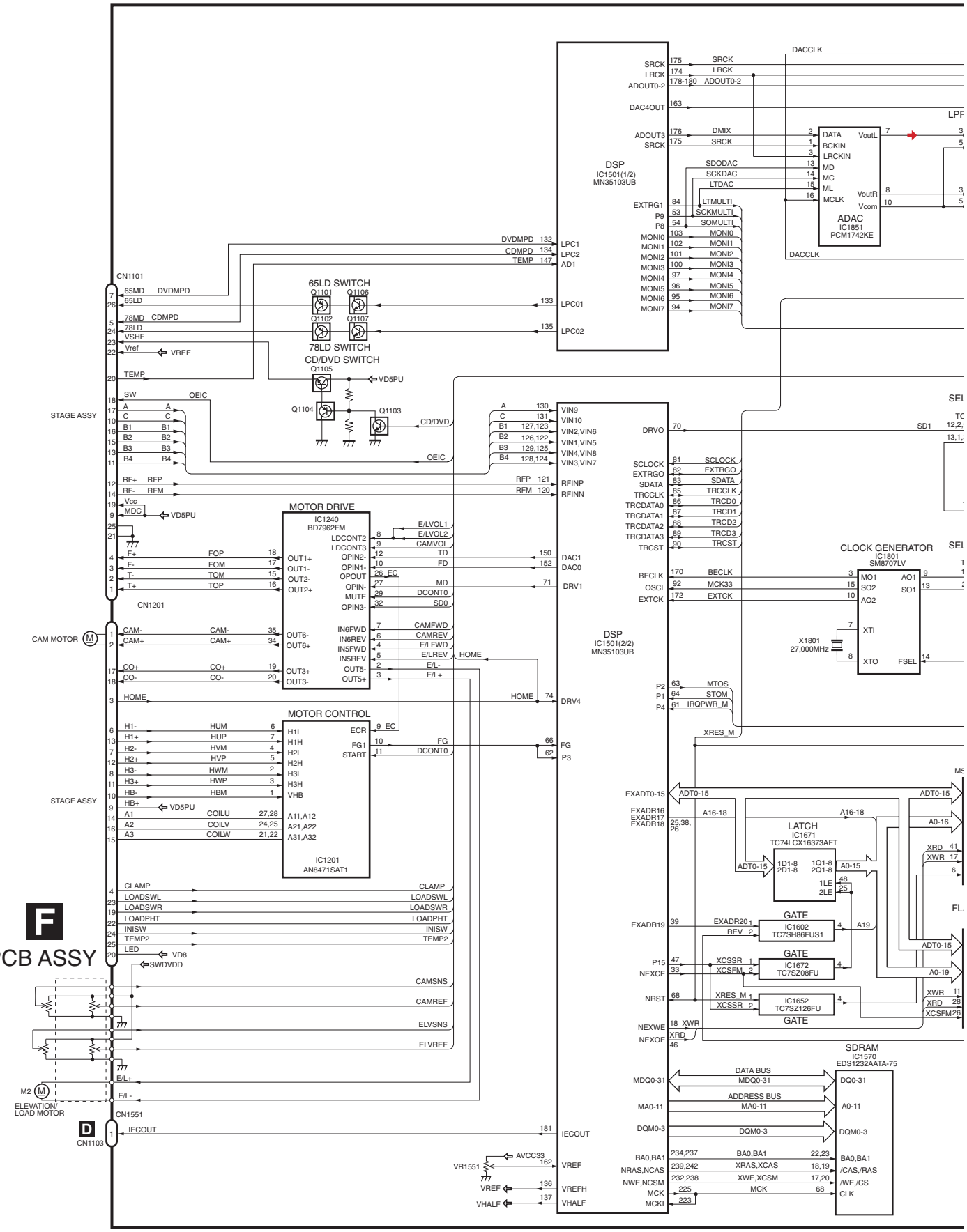
FM/AM TUNER UNIT

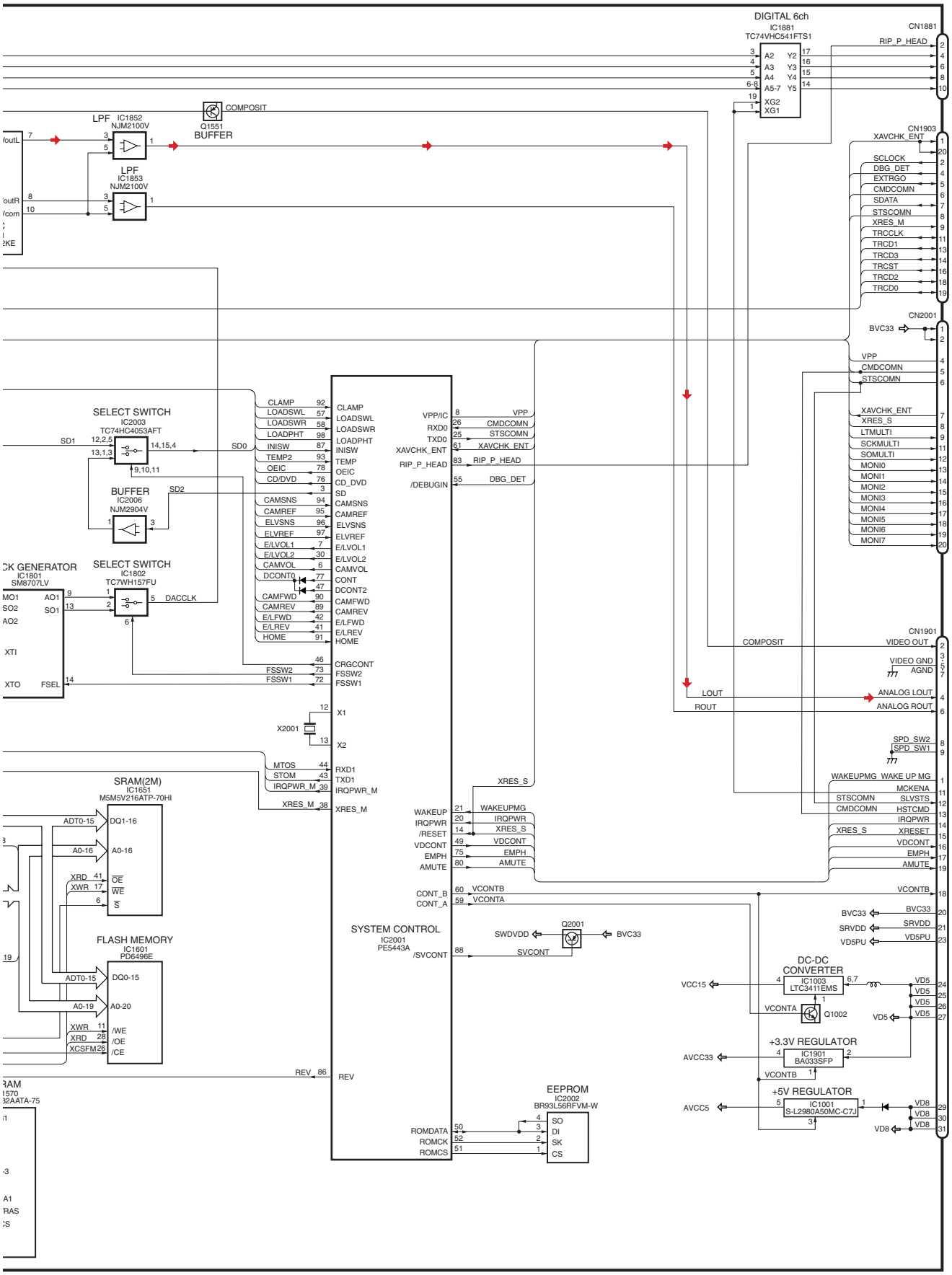


FM/AM TUNER UNIT



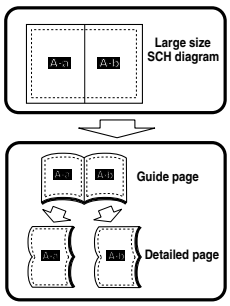
E DVD CORE UNIT

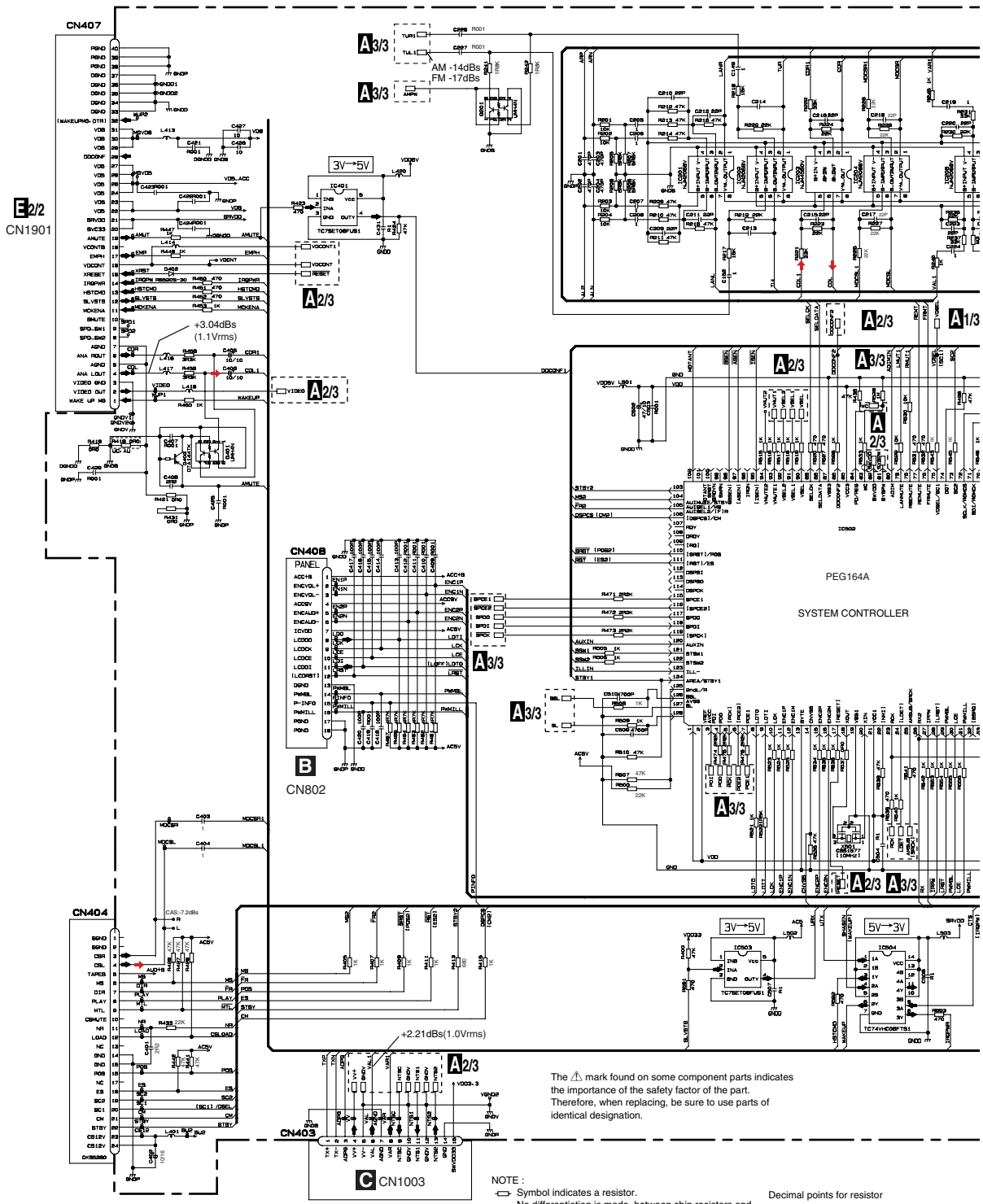



DIGITAL 6ch
IC1881
TC74VHC541FTS1
CN1881
RIP_P_HEAD
COMPOSIT
LPF IC1852 NJM2100V
LPF IC1853 NJM2100V
Q1551
BUFFER
CN1903
XAVCHK_ENT
SCLOCK
DBG_DET
EXTRGO
CMDCOMN
SDATA
STSCOMN
XRES_M
TRCCLK
TRCD1
TRCD3
TRCST
TRCD2
TRCD0
CN2001
BVC33
VPP
CMDCOMN
STSCOMN
XAVCHK_ENT
XRES_S
LTMULTI
SCKMULTI
SOMULTI
MONI0
MONI1
MONI2
MONI3
MONI4
MONI5
MONI6
MONI7
SELECT SWITCH
IC2003
TC74HC4053AFT
BUFFER
IC2006
NJM2904V
CK GENERATOR
IC1801
SM8707LV
SELECT SWITCH
IC1802
TC7WH157FU
DACCLK
CLAMP
LOADSWL
LOADSWR
LOADPHT
INISW
TEMP
OEIC
CD_DVD
SD
CAMSNS
CAMREF
ELVSNS
ELVREF
E/LVOL1
E/LVOL2
CAMVOL
CONT
DCONT2
CAMFWD
CAMREV
E/LFWD
E/LREV
HOME
CRGCONT
FSSW2
FSSW1
X2001
X1
X2
MTOS
STOM
IRQPWR_M
XRES_M
REV
VPP/IC
RXD0
TXD0
XAVCHK_ENT
RIP_P_HEAD
/DEBUGIN
DBG_DET
WAKEUPMG
IRQPWR
/RESET
VDCONT
EMPH
AMUTE
CONT_B
CONT_A
VCONTB
VCONTA
SYSTEM CONTROL
IC2001
PE5443A
/SVCONT
SWDVDD
SVCONT
Q2001
BVC33
SRAM(2M)
IC1651
M5M5V216ATP-70HI
FLASH MEMORY
IC1601
PD6496E
EEPROM
IC2002
BR93L56RFVM-W
ROMDATA
ROMCK
ROMCS
SO
DI
SK
CS
CN1901
VIDEO OUT
VIDEO GND
AGND
LOUT
ROUT
ANALOG LOUT
ANALOG ROUT
SPD_SW2
SPD_SW1
WAKEUPMG
WAKE UP MG
MCKENA
SLVSTS
HSTCMD
XRESET
BVC33
SRVDD
VD5PU
CN407
DC-DC CONVERTER
IC1003
LTC3411EMS
Q1002
VCC15
VCONTA
VD5
+3.3V REGULATOR
IC1901
BA033SFP
AVCC33
VCONTB
+5V REGULATOR
IC1001
S-L2980A50MC-C7J
AVCC5
VD8

3.2 MAIN UNIT(1/3)(GUIDE PAGE)

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

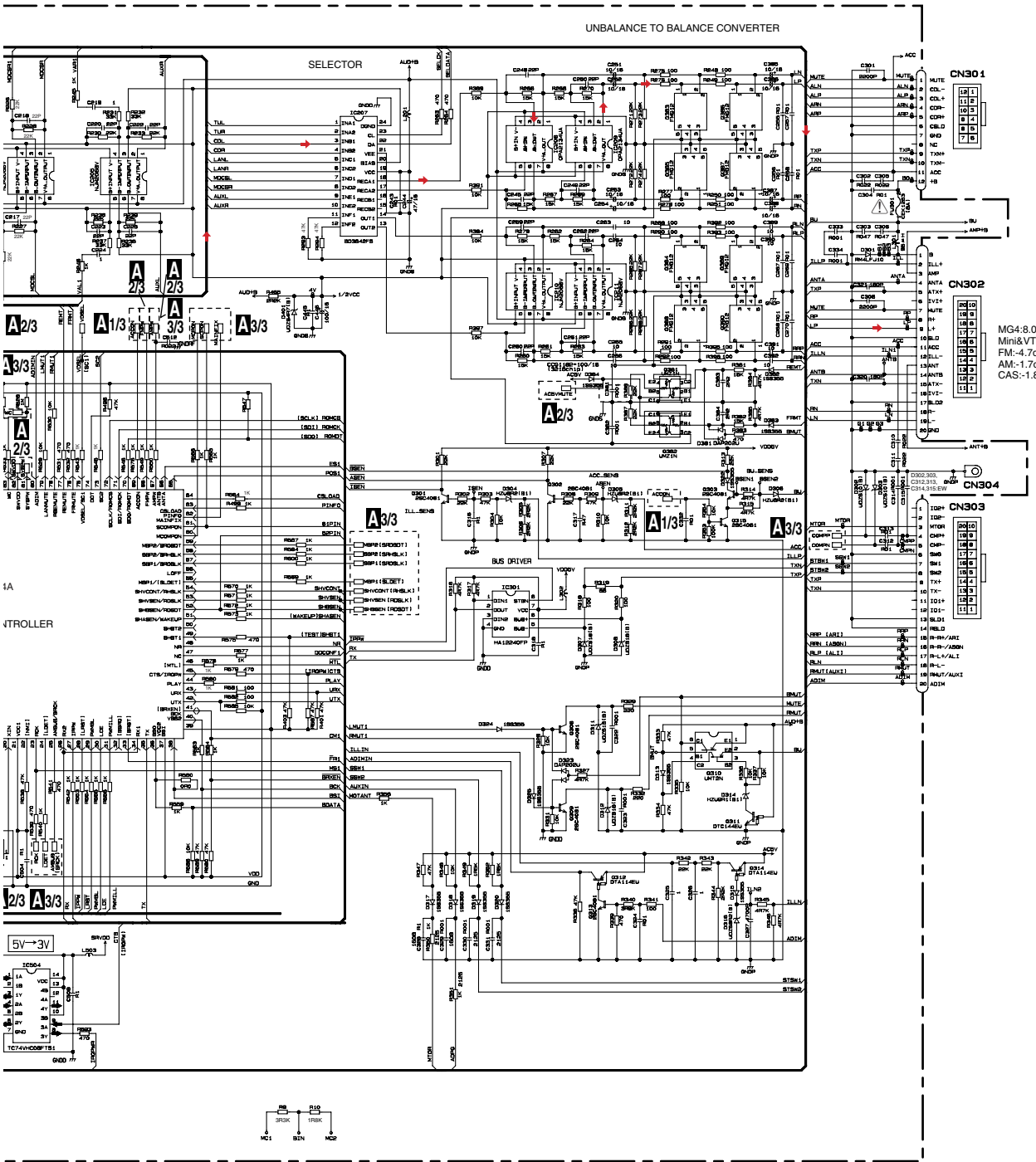


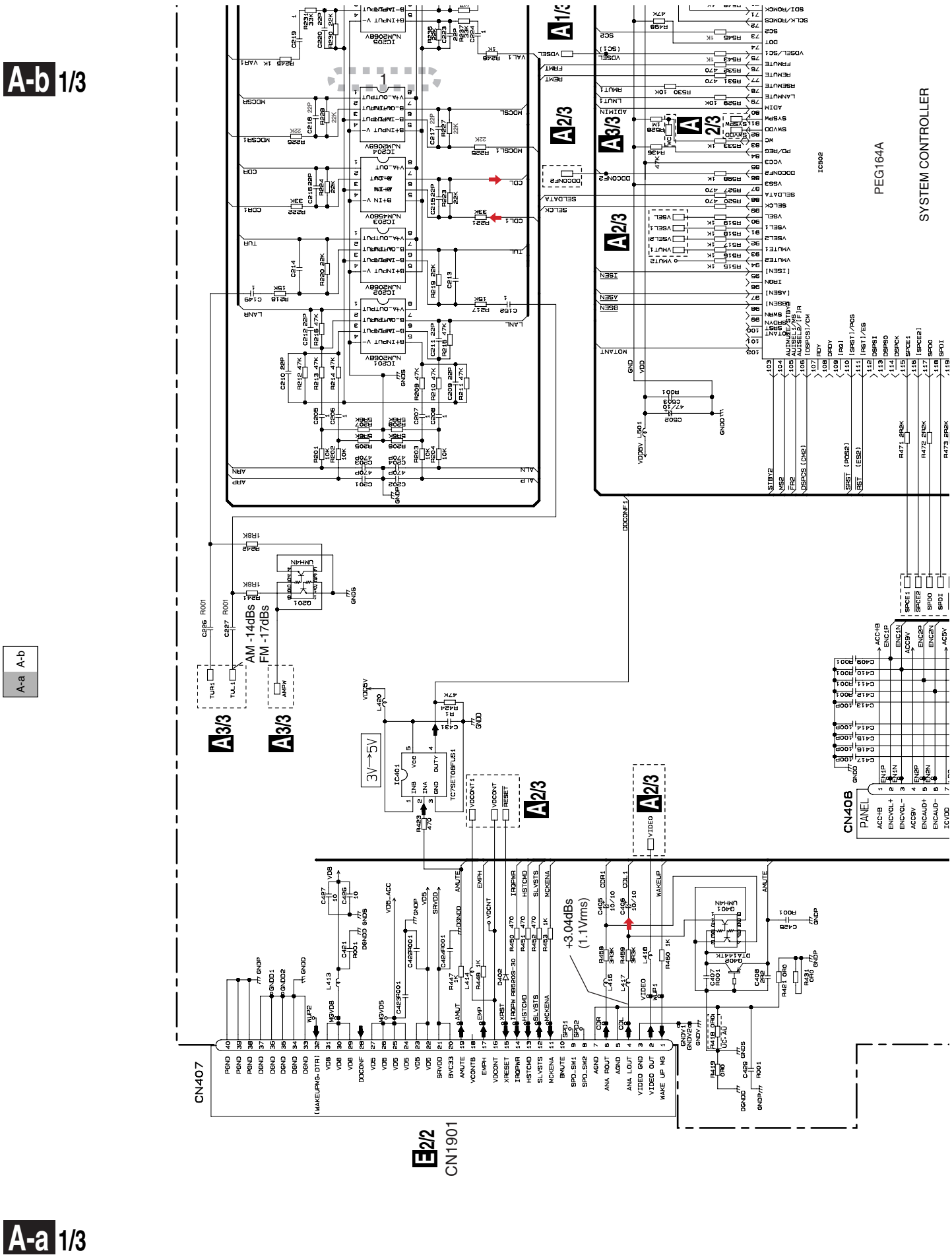


A1/3

A-b 1/3

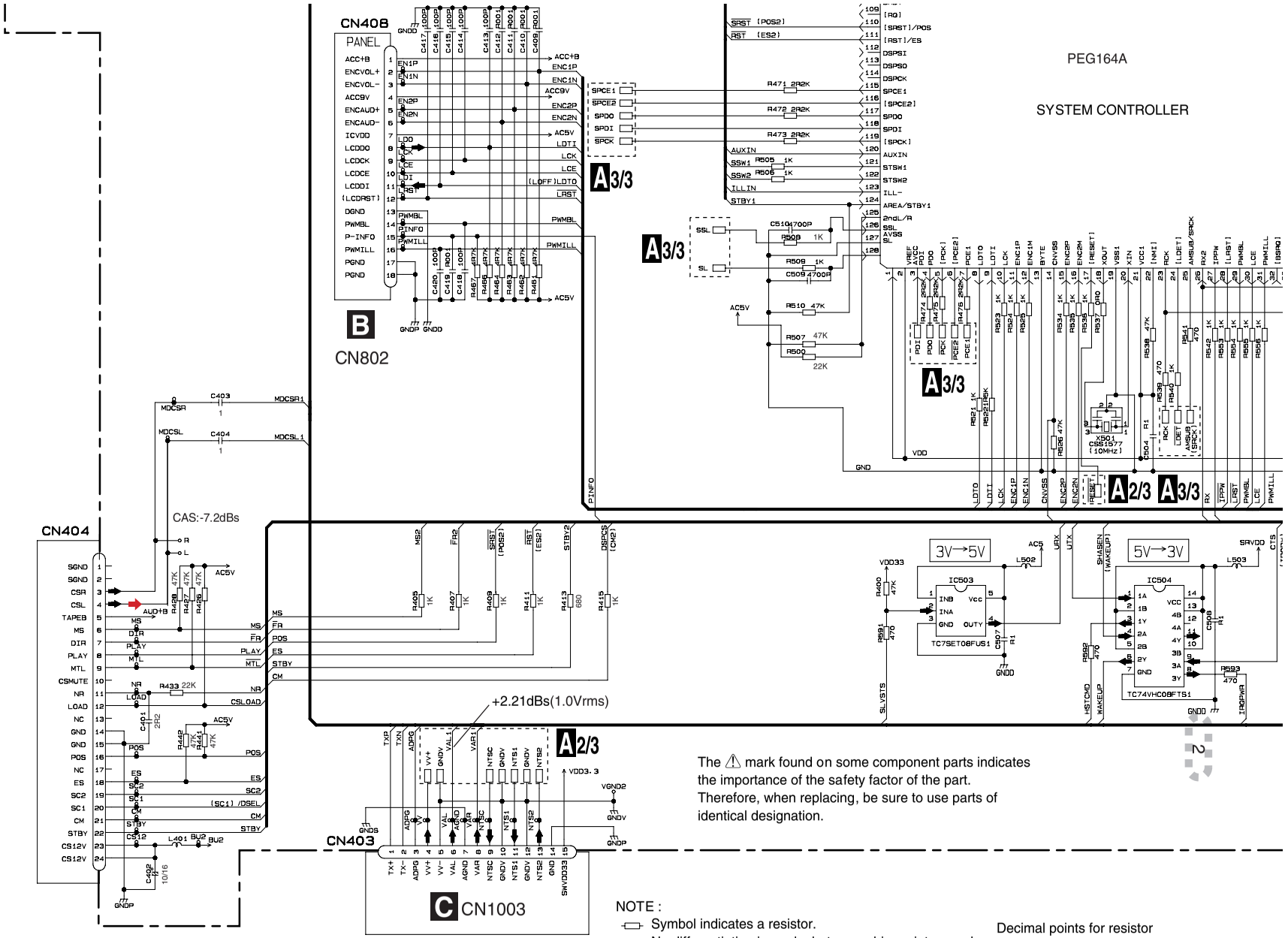
A 1/3 MAIN UNIT(1/3)




A-b 1/3
A-a 1/3
A-b
A-a
SYSTEM CONTROLLER
PEG164A
AM -14dBs
FM -17dBs
3V→5V
+3.04dBs
(1.1Vrms)
CN407
CN408
CN1901
E2/2
PANEL

PEG164A

SYSTEM CONTROLLER



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.

NOTE :

- ⊏⊐ Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- ⊣⊢ Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

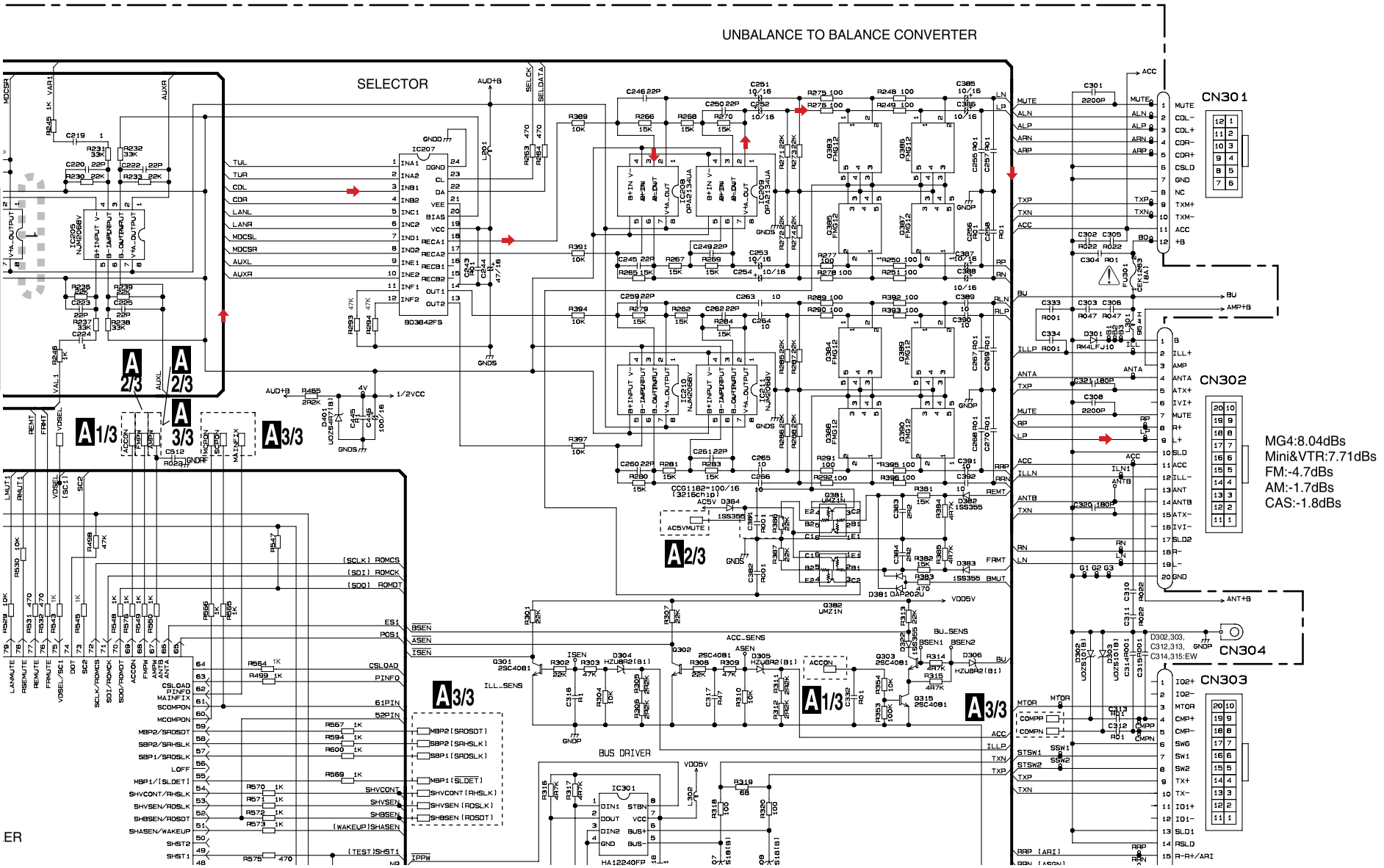
Decimal points for resistor and capacitor fixed values are expressed as :
2.2→2R2
0.022→R022

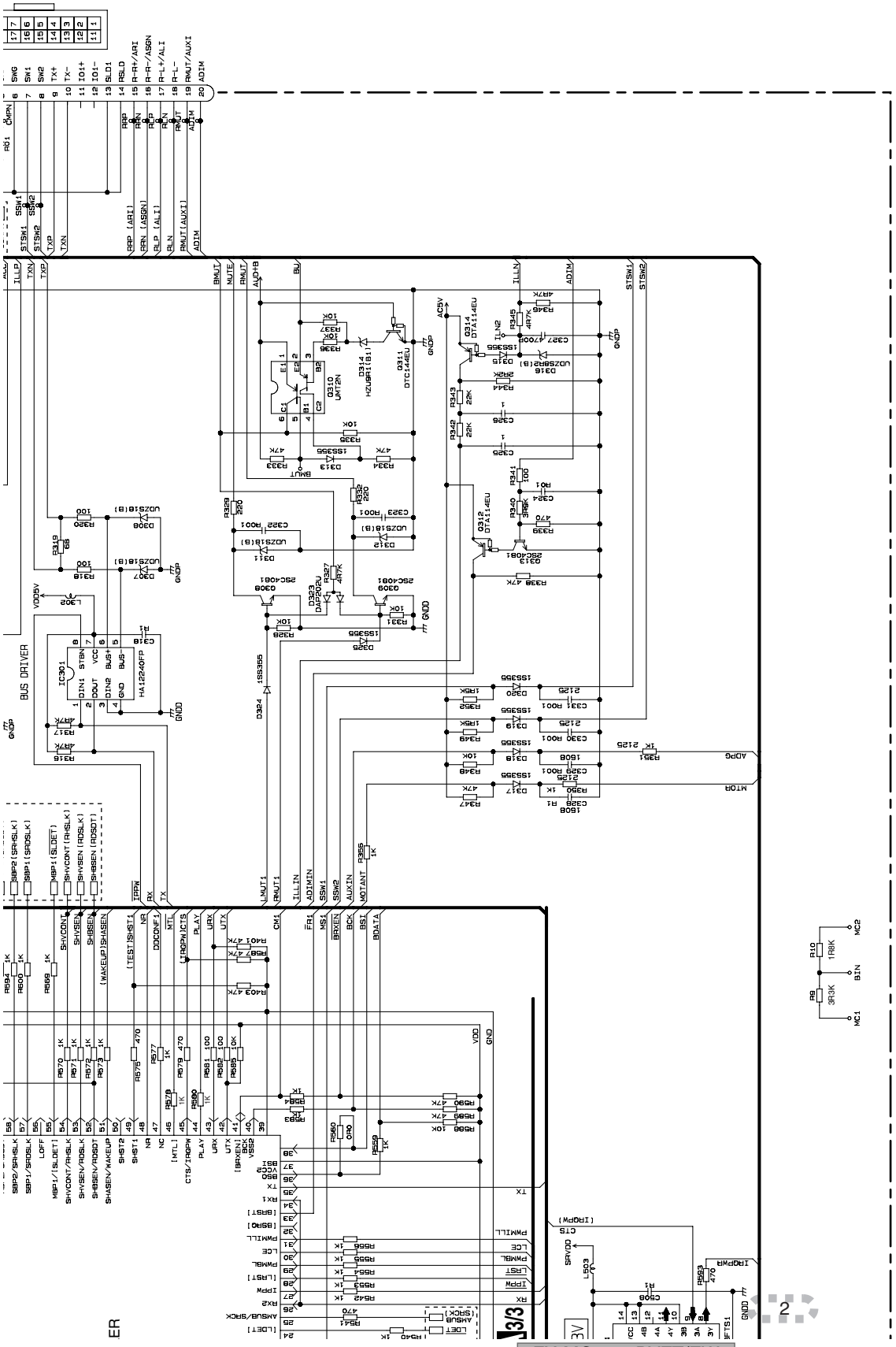
A-a 1/3

A-b 1/3

A-a A-b

A 1/3 MAIN UNIT(1/3)

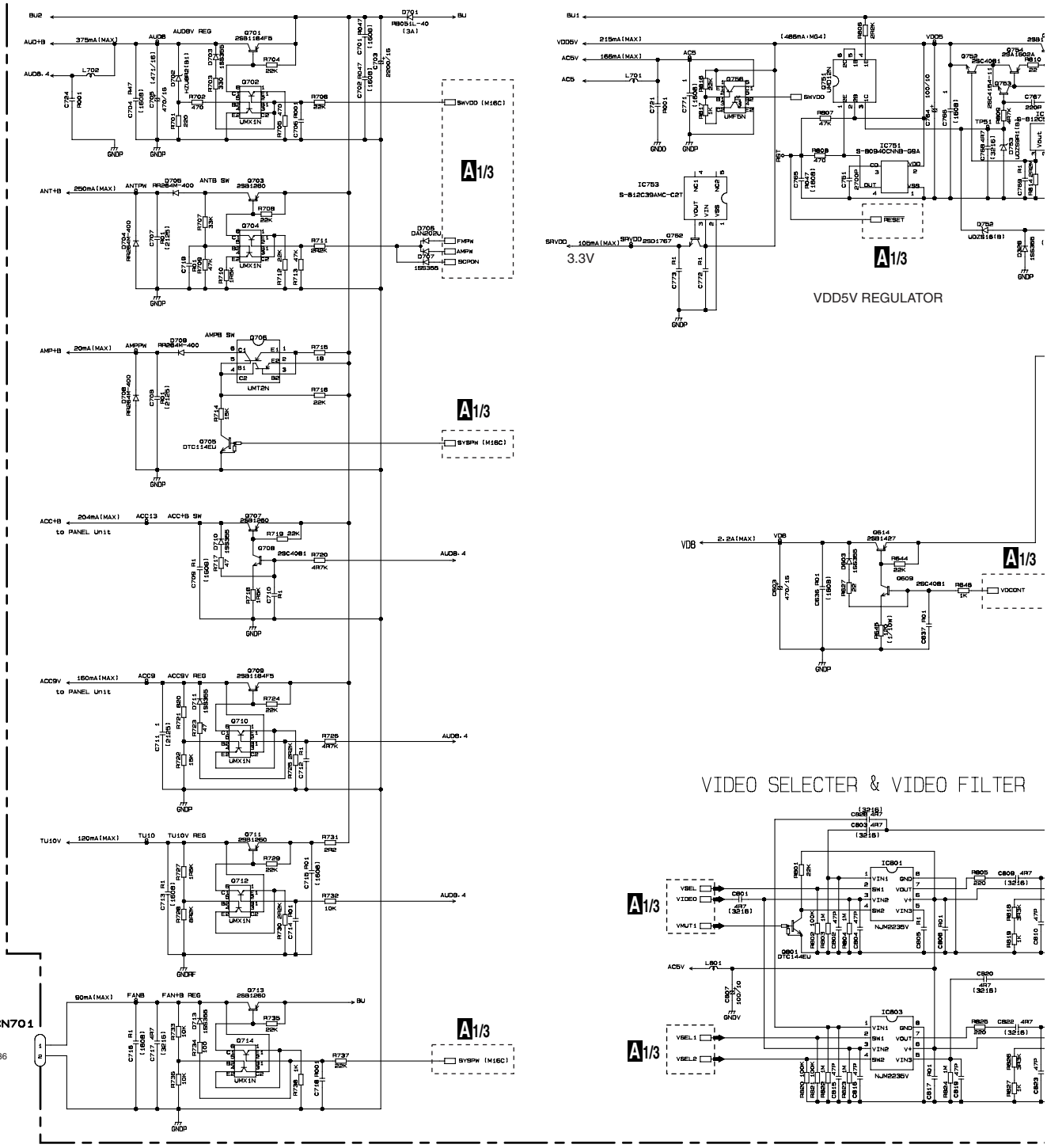


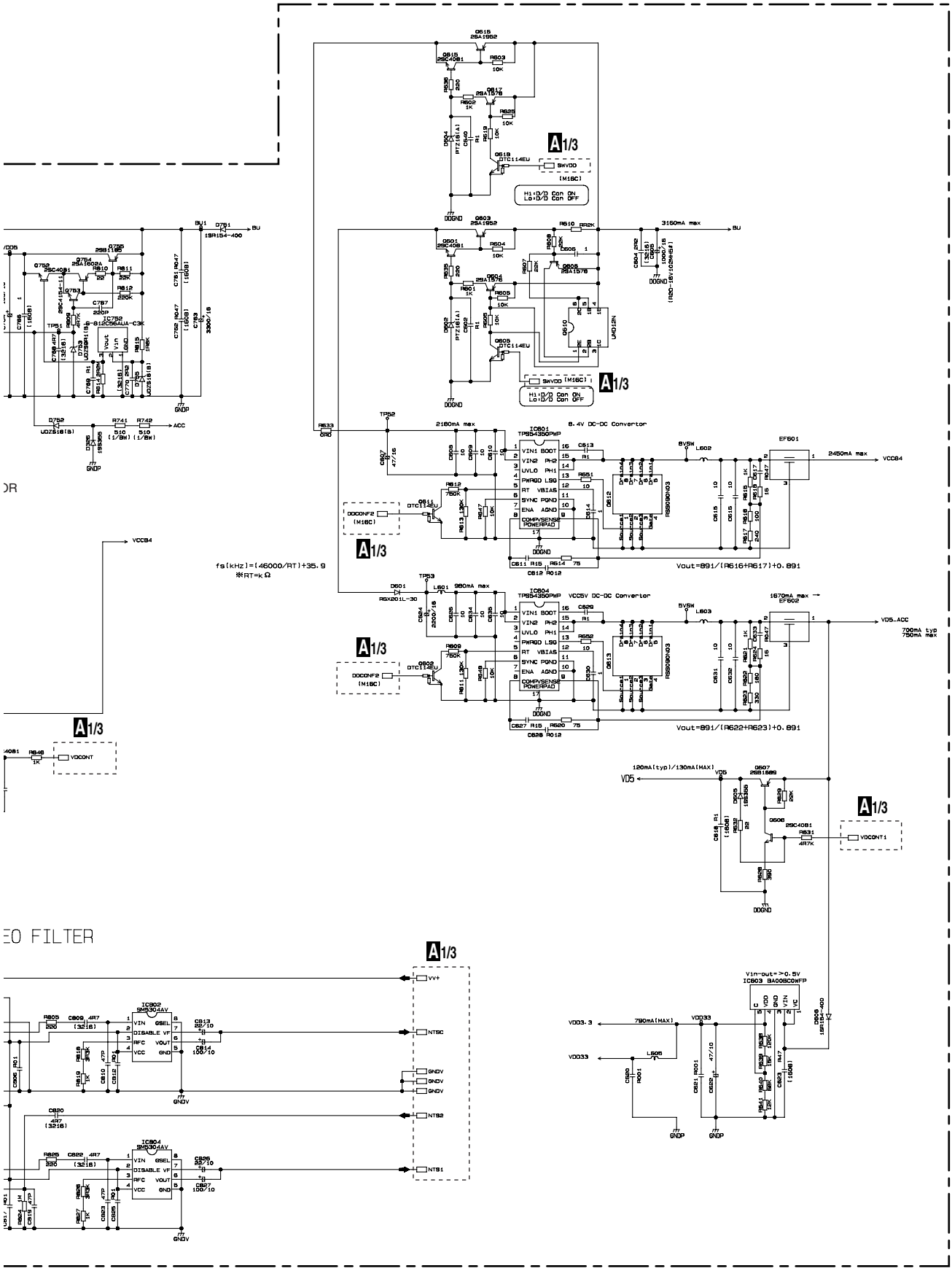

BUS DRIVER
IC301
HA12240FP
ER
3/3
2

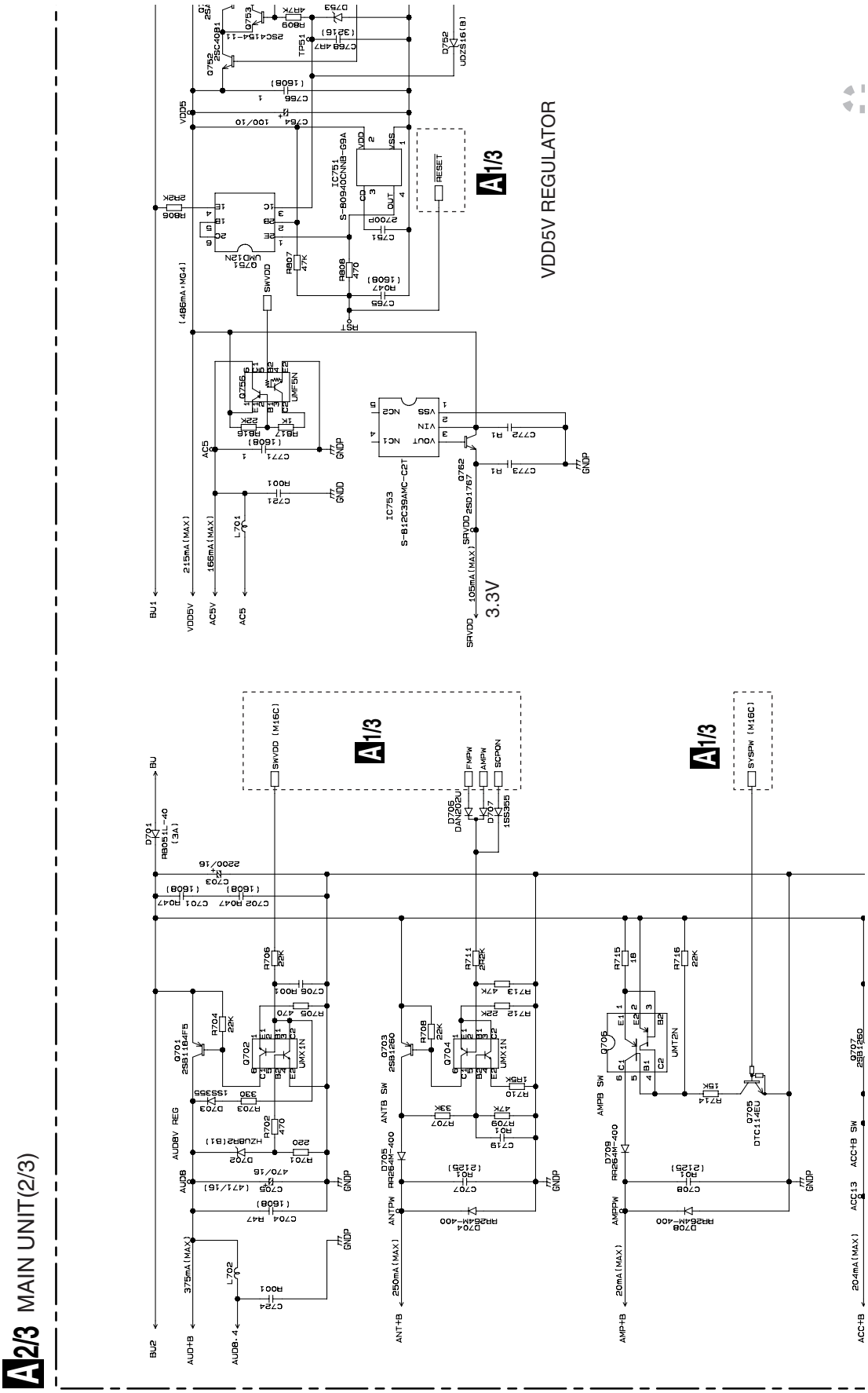
3.3 MAIN UNIT(2/3)(GUIDE PAGE)

A-a 2/3

A2/3 MAIN UNIT(2/3)

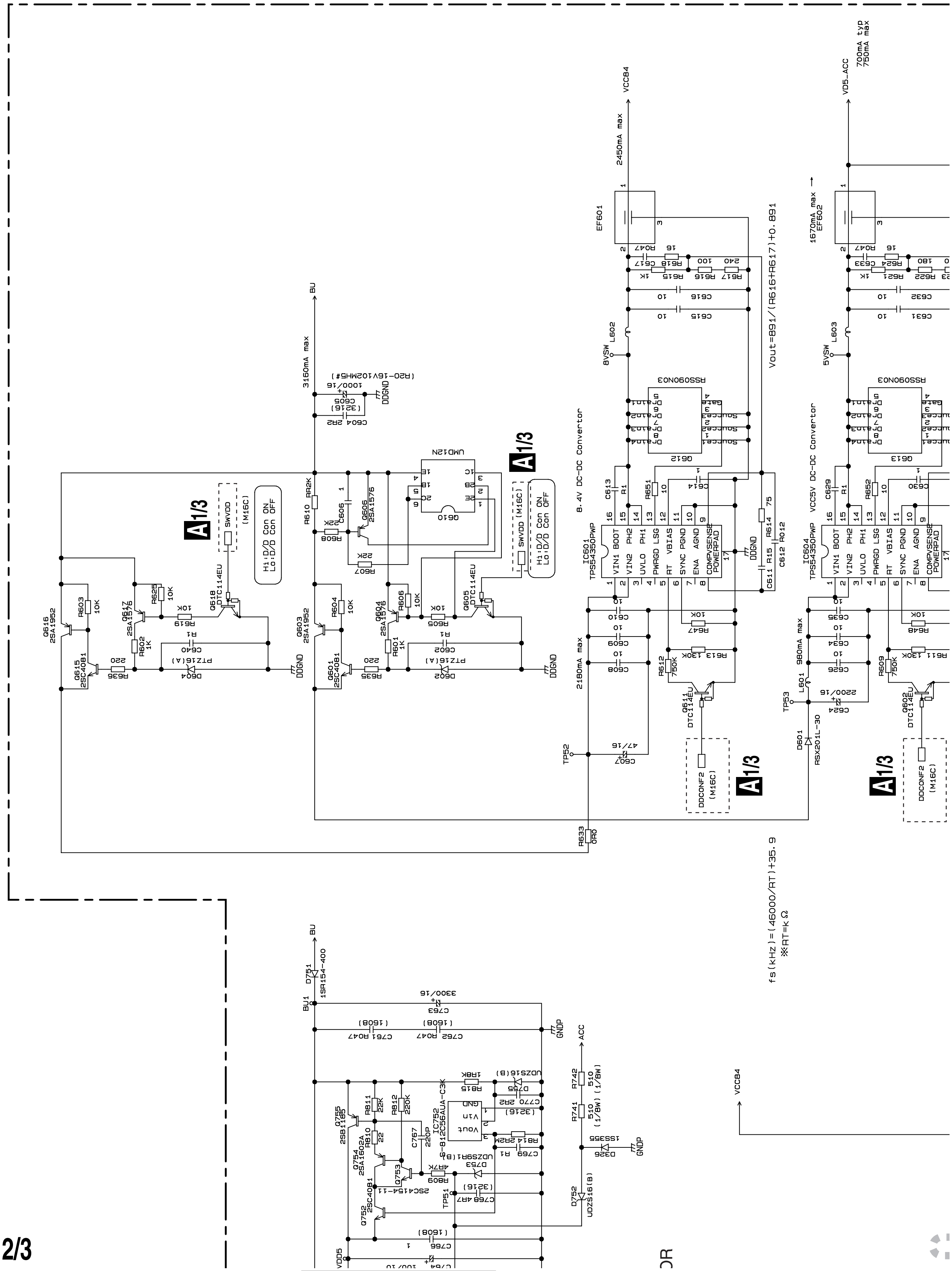



A1/3
A2/3
8.4V DC-DC Convertor
VCC5V DC-DC Convertor
Vout=891/(R616+R617)+0.891
Vout=891/(R622+R623)+0.891
fs(kHz)=(46000/RT)+35.9
※RT=kΩ
EO FILTER

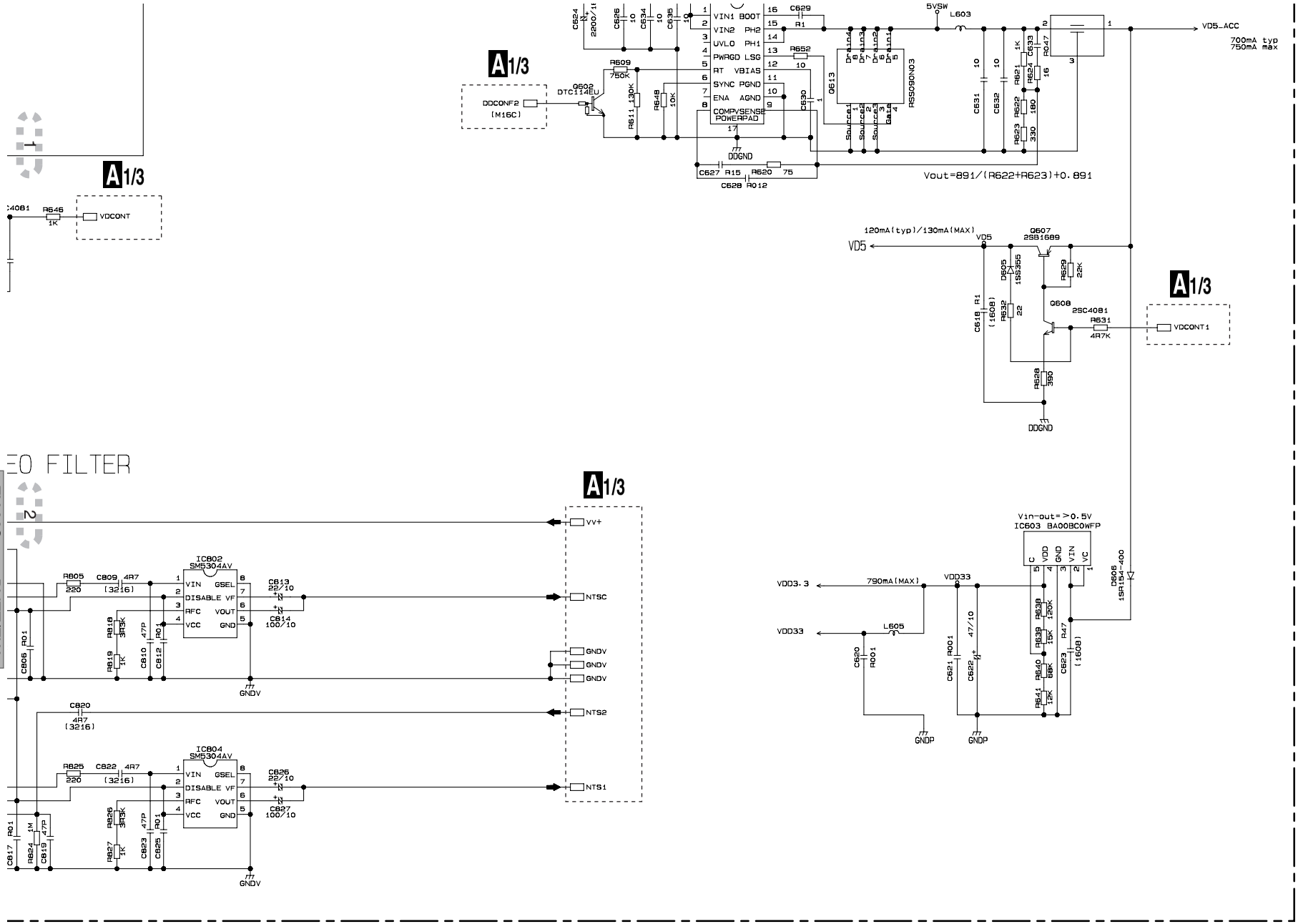

A2/3 MAIN UNIT(2/3)
VDD5V REGULATOR
3.3V
A1/3
A1/3
A1/3
BU1
BU2
VDD5V
AC5V
AC5
SRVDD
AUDB
AUDB-4
ANTPW
ANTB SW
AMPB SW
AMPPW
ACC13
ACC+B SW
AUD+B
ANT+B
AMP+B
ACC+B
SWVDD (M16C)
SYSPW (M16C)
FMPW
AMPW
SCPON
IC751
S-8094OCNNB-G9A
IC753
S-812C39AMC-C2T
AUDBV REG
215mA(MAX)
166mA(MAX)
105mA(MAX)
375mA(MAX)
250mA(MAX)
20mA(MAX)
204mA(MAX)
(486mA+MG4)

VIDEO SELECTER & VIDEO FILTE
A-b 2/3
A-a 2/3
A1/3
A1/3
A1/3
A-b
A-a
CN701
M1001
CXM1336
FX-MG8667DVZT/EW

A-a A-b

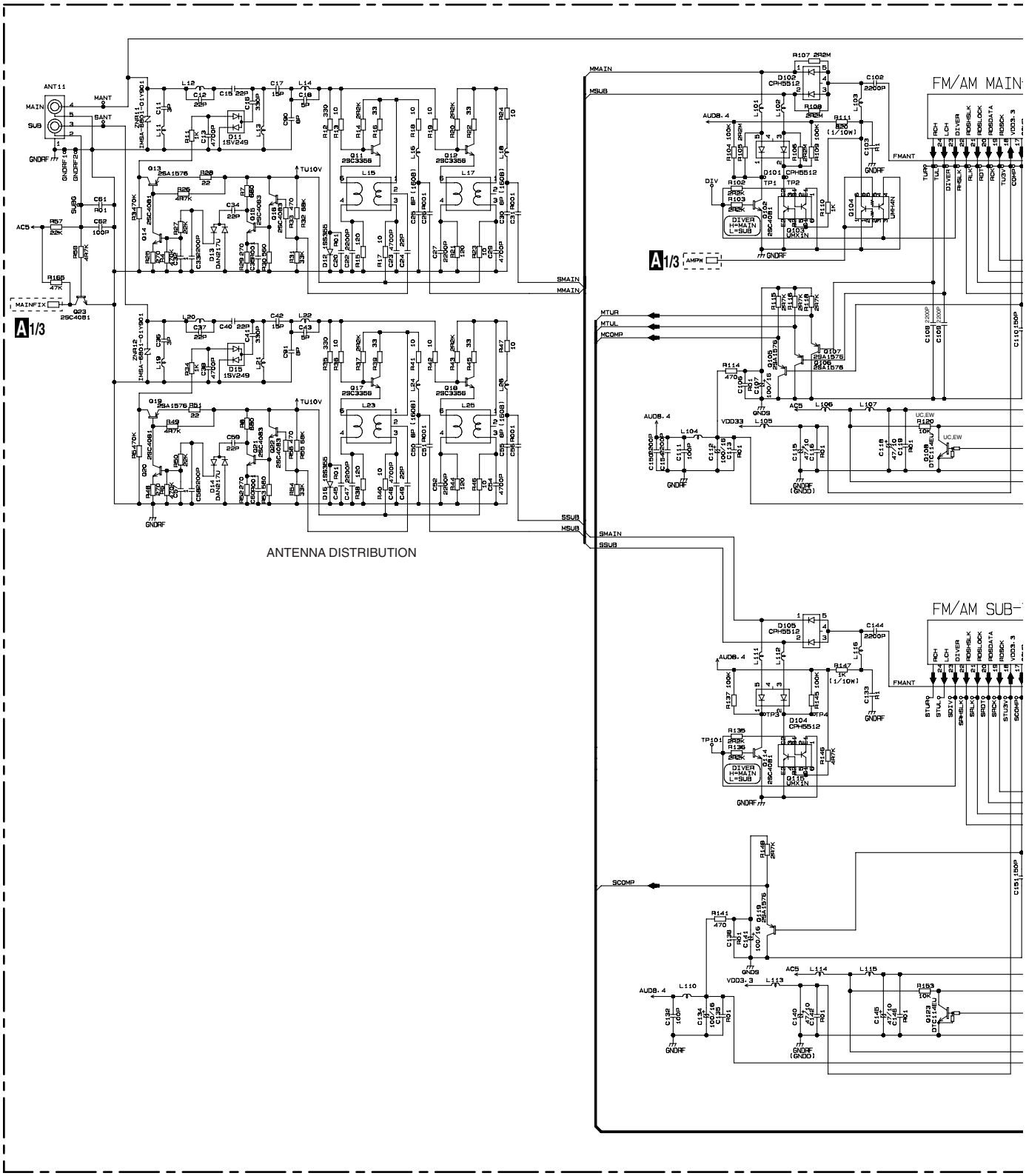

8.4V DC-DC Convertor
VCC5V DC-DC Convertor
IC601 TPS54350PWP
IC604 TPS54350PWP
Vout=891/(R616+R617)+0.891
fs(kHz)=(46000/RT)+35.9
※RT=kΩ
Hi:D/D Con ON
Lo:D/D Con OFF
VCC84
VD5_ACC
2450mA max
3160mA max
2180mA max
DDGND
GNDP

A-b 2/3


A1/3
DDCONF2
(M16C)
Q602
DTC114EU
R609
750K
R611
130K
R648
10K
VIN1 BOOT
VIN2 PH2
UVLO PH1
PWRGD LSG
RT VBIAS
SYNC PGND
ENA AGND
COMPVSENSE
POWERPAD
C629
R1
R652
10
C630
1
Q613
RSS090N03
5VSW
L603
VD5_ACC
700mA typ
750mA max
C631
C632
R621
1K
R624
16
C633
R622
180
R623
330
R647
Vout=891/(R622+R623)+0.891
DDGND
C627 R15 R620 75
C628 R012
120mA(typ)/130mA(MAX)
VD5
Q607
2SB1689
D605
1SS355
R629
22K
C618 R1
(1608)
R632
22
Q608
2SC4081
R631
4R7K
R628
390
VDCONT1
Vin-out=>0.5V
IC603 BA00BC0WFP
C
VDD
GND
VIN
VC
D606
1SR154-400
VDD3.3
790mA(MAX)
VDD33
L605
C620
R001
C621
R001
47/10
C622
R638
120K
R639
15K
R640
68K
R641
12K
R47
C623
(1608)
GNDP
R646
1K
VDCONT
IC802
SM5304AV
IC804
SM5304AV
VIN
GSEL
DISABLE
VF
AFC
VOUT
VCC
GND
R805
220
C809
4R7
(3216)
C813
22/10
C814
100/10
R818
3R3K
C810
47P
C812
R001
R819
1K
C805
R001
C820
4R7
(3216)
R825
220
C822
4R7
(3216)
C825
22/10
C827
100/10
R826
3R3K
C823
47P
C825
R001
R827
1K
C817
R001
R824
1M
C819
47P
VV+
NTSC
GNDV
NTS2
NTS1
FX-MG8667DVZT/EW
A-b 2/3
A-a
A-b

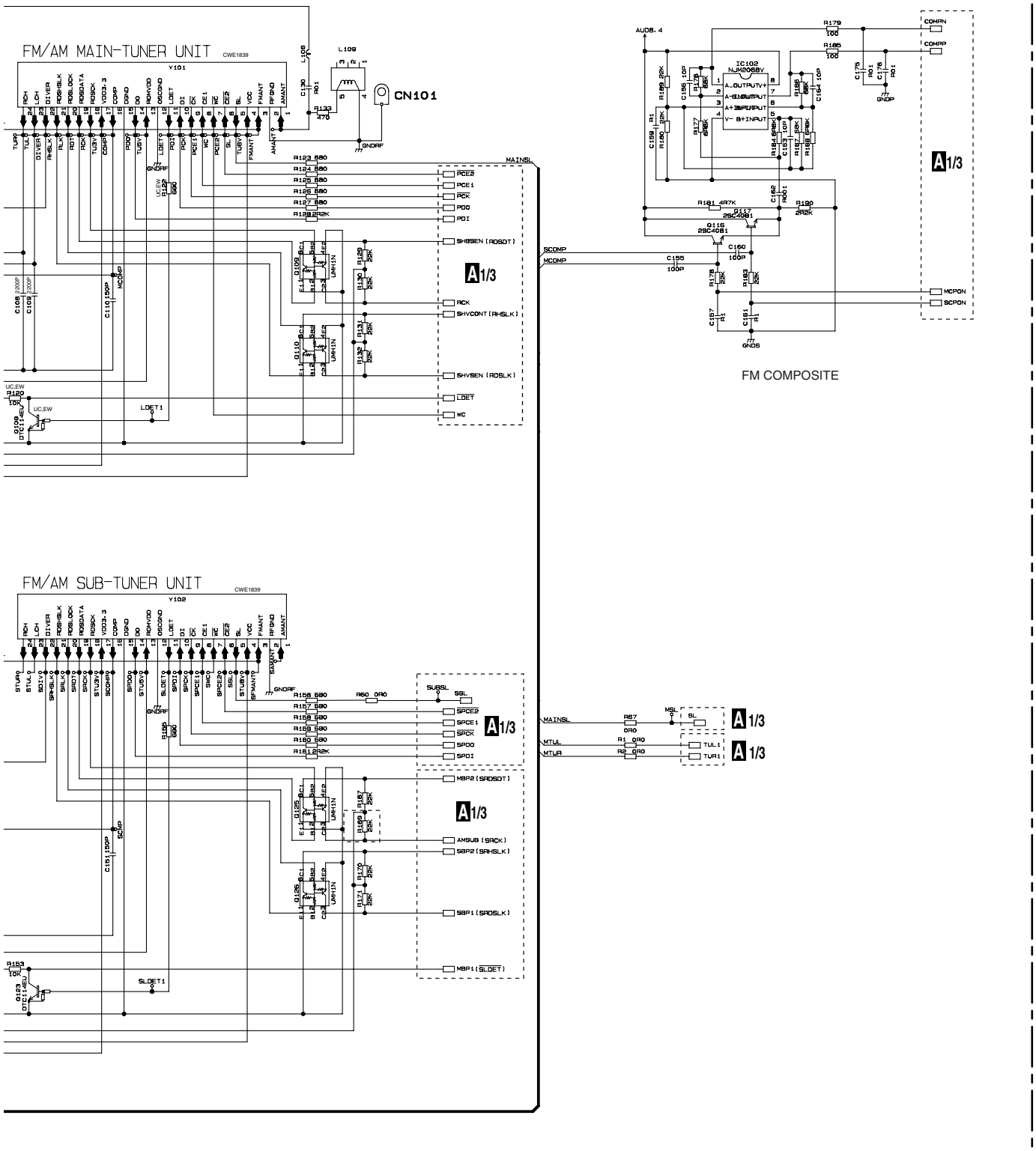
3.4 MAIN UNIT(3/3)(GUIDE PAGE)

A-a 3/3



A3/3

A3/3 MAIN UNIT(3/3)



A

A-b 3/3

B

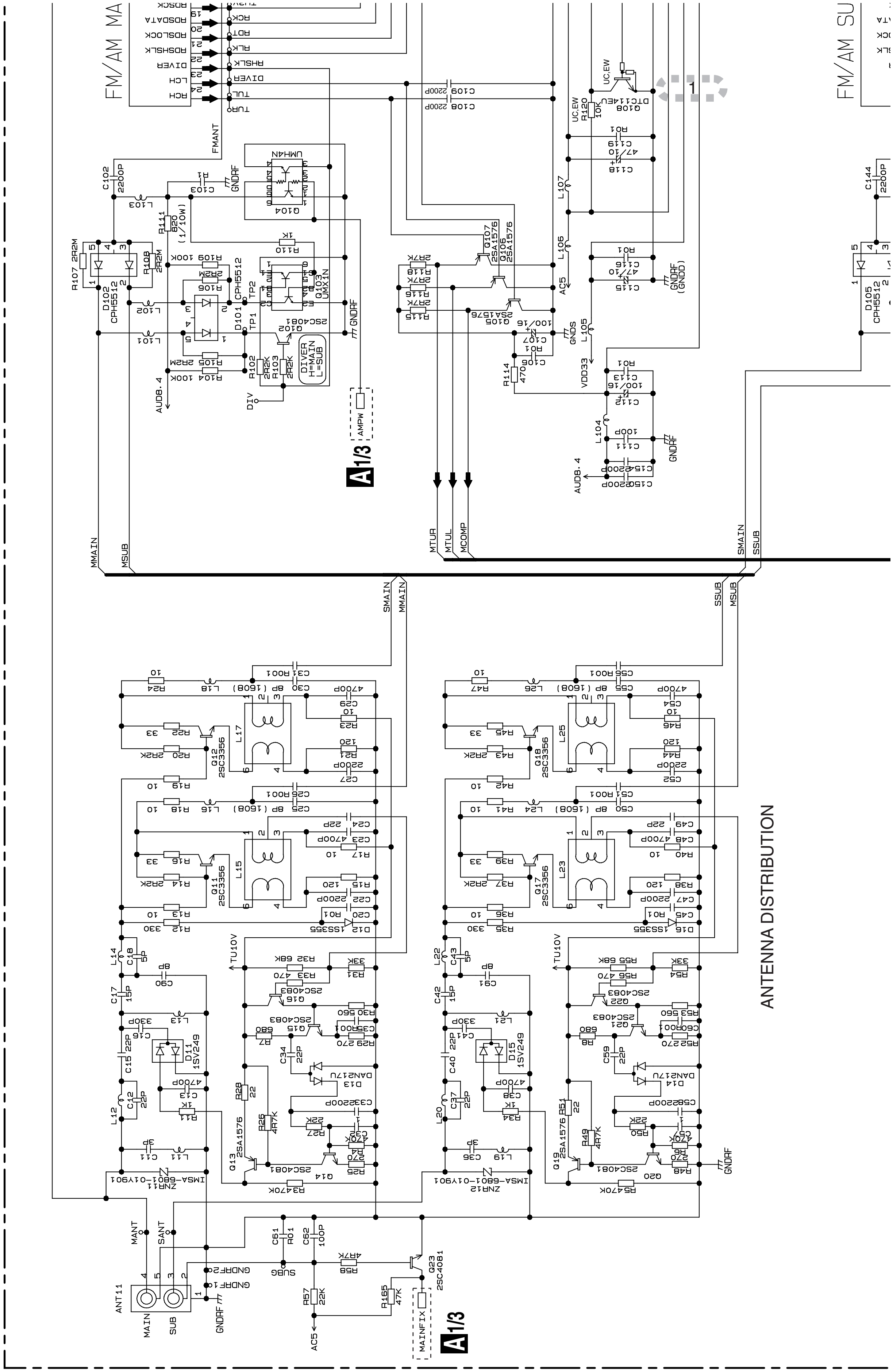
C

D

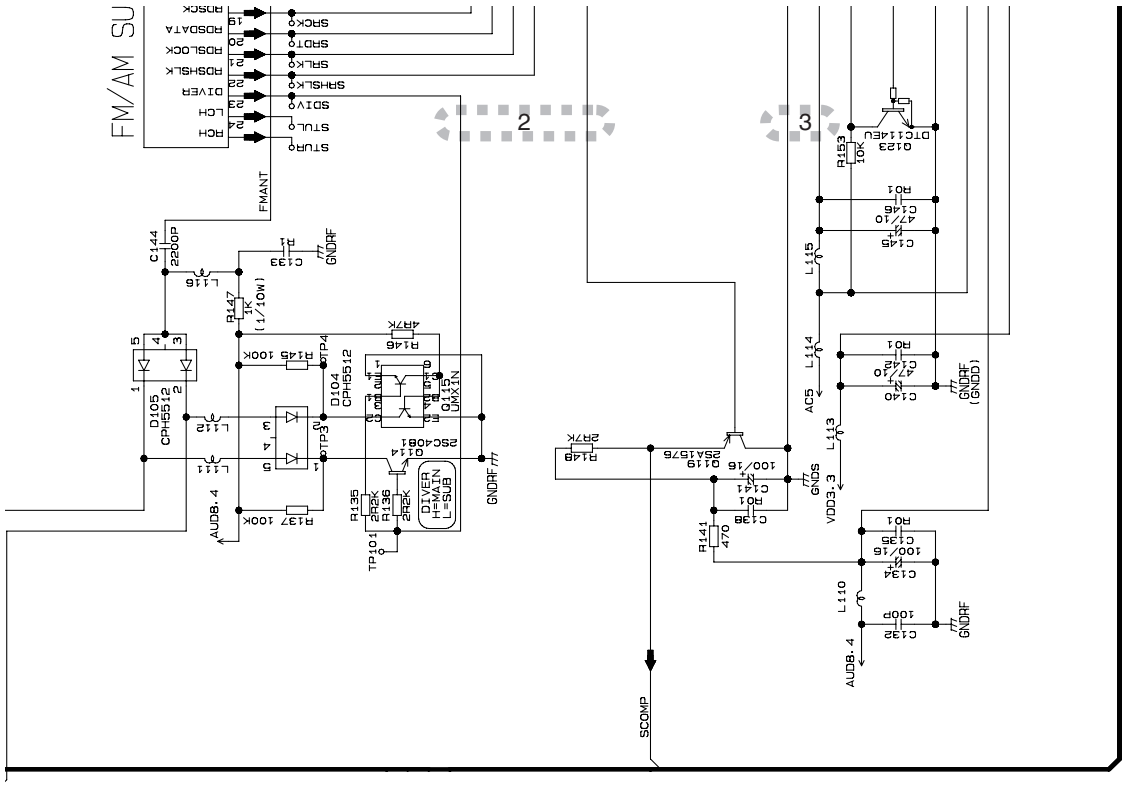
A-b
A-a

E

F



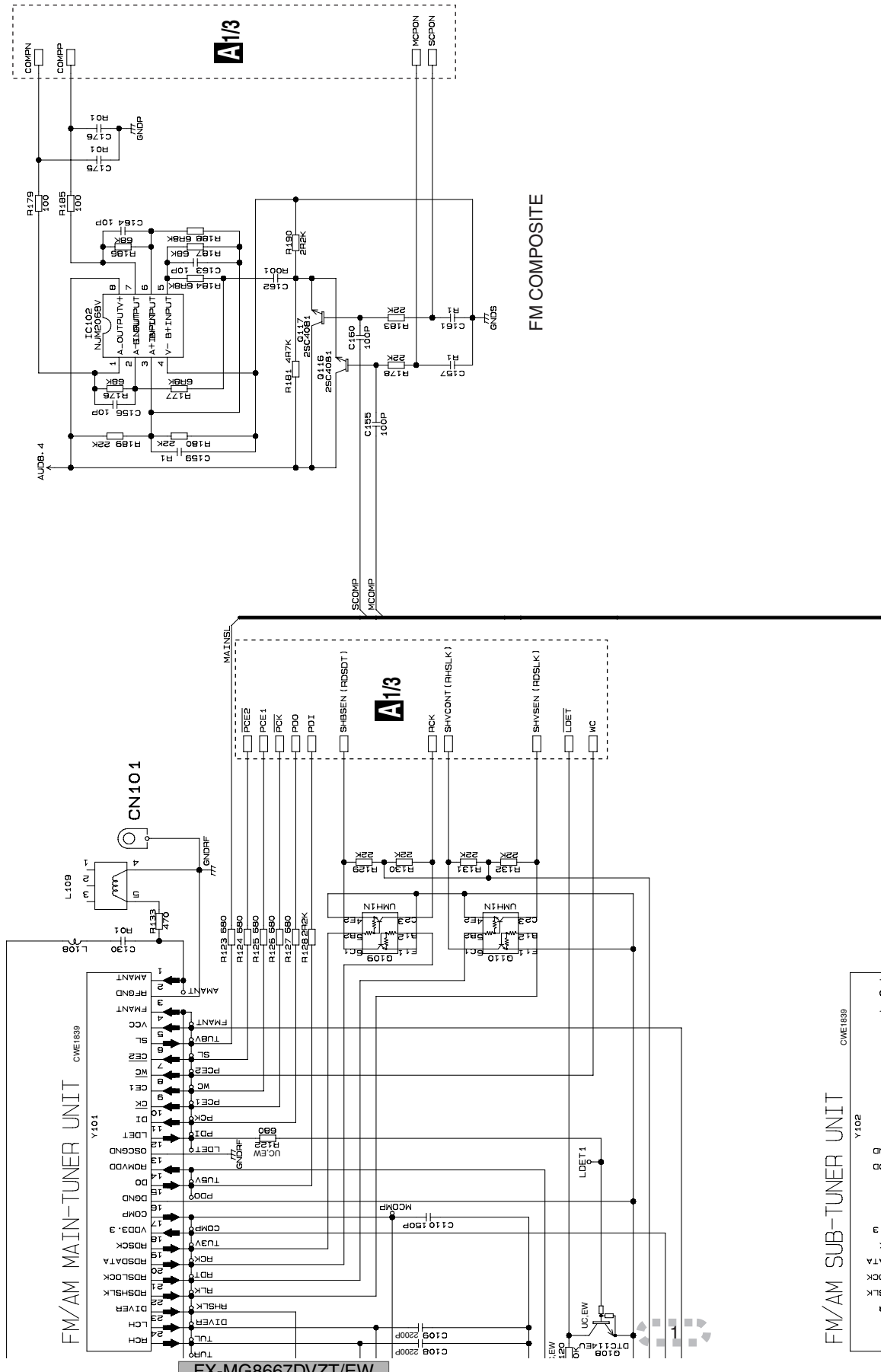
A-a 3/3



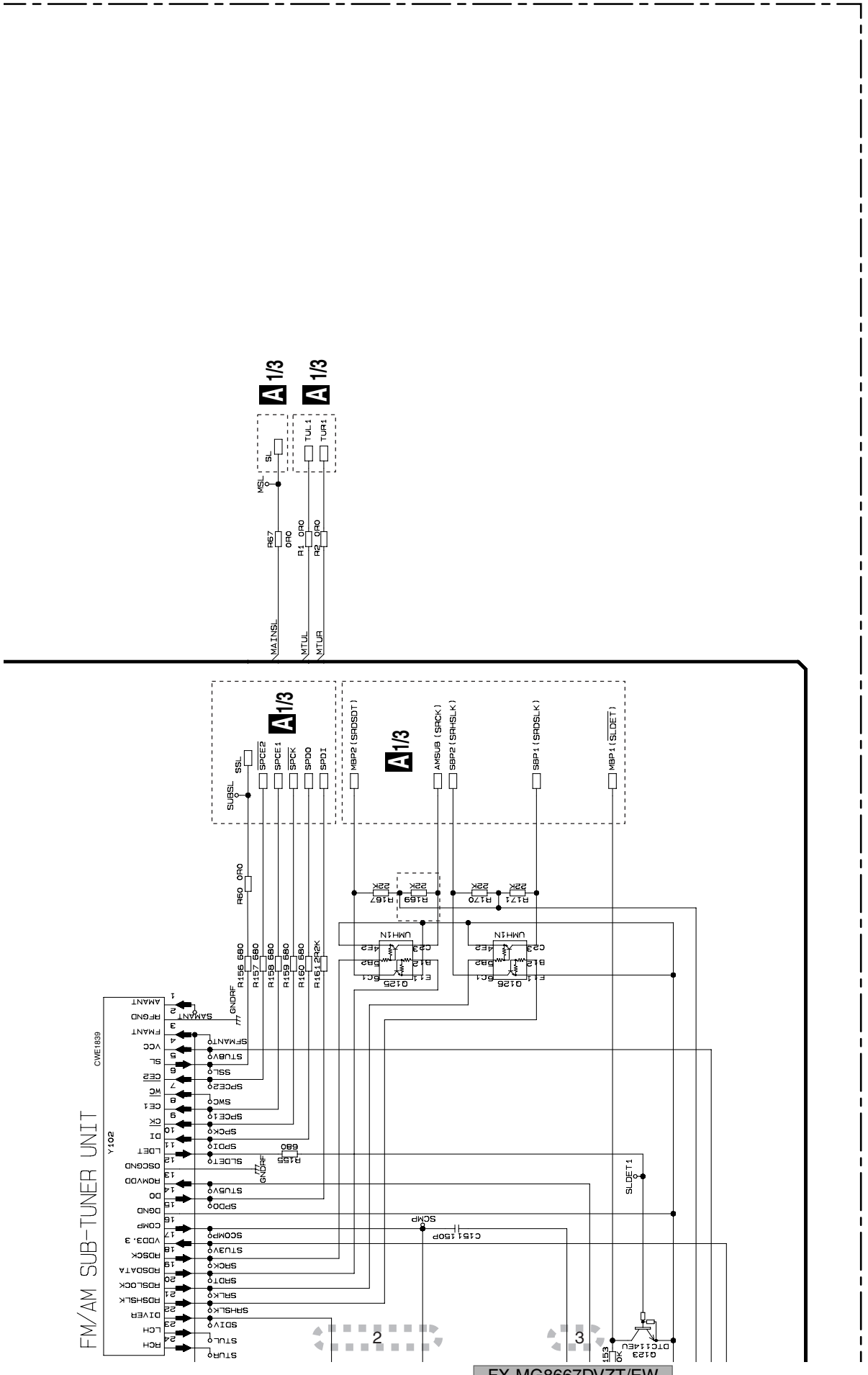
ANTENNA DISTRIBUTION

A-b 3/3

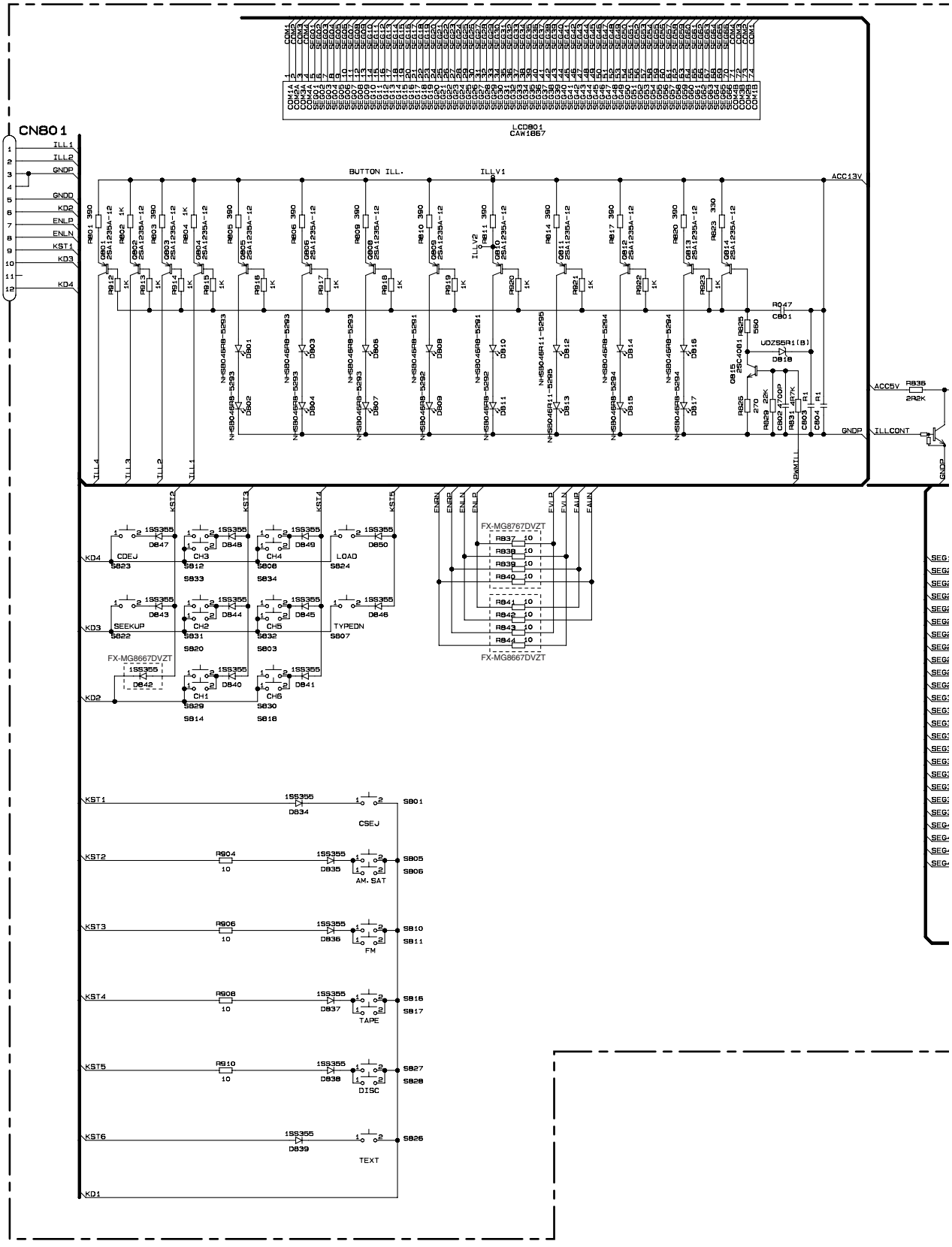
A-a 3/3


A1/3
COMPN
COMPP
MCPON
SCPON
FM COMPOSITE
IC102
NJM2068V
SCOMP
MCOMP
MAINSL
PCE2
PCE1
PCK
PDO
PDI
SHBSEN (RDSDT)
RCK
SHVCONT (RHSLK)
SHVSEN (RDSLK)
LDET
WC
CN101
L109
FM/AM MAIN-TUNER UNIT
CWE1839
Y101
FM/AM SUB-TUNER UNIT
Y102
LDET1
UC.EW
MCOMP
AUDB.4
GNDF
GNDS

A-b 3/3


FM/AM SUB-TUNER UNIT
CWE1839
Y102
A 1/3
SL
TUL1
TUR1
MSL
R67 0R0
R1 0R0
R2 0R0
MAINSL
MTUL
MTUR
SUBSL
SSL
SPCE2
SPCE1
SPCK
SPDO
SPDI
MBP2(SRDSDT)
AMSUB(SRCK)
SBP2(SRHSLK)
SBP1(SRDSLK)
MBP1(SLDET)
R60 0R0
R156 680
R157 680
R158 680
R159 680
R160 680
R161 22K
R169 22K
R167 22K
R170 22K
R171 22K
UMH1N
Q125
SAMANT
GNDRF
SFMANT
STUBV
SSL
SPCE2
SWC
SPCE1
SPCK
SPDI
SLDET
STUSV
SPDO
SCOMP
STUSV
SRCK
SRDT
SRLK
SRHSLK
SDIV
STUL
STUR
R155 680
C154 150P
SLDET1
Q123 DTC114EU
2
3

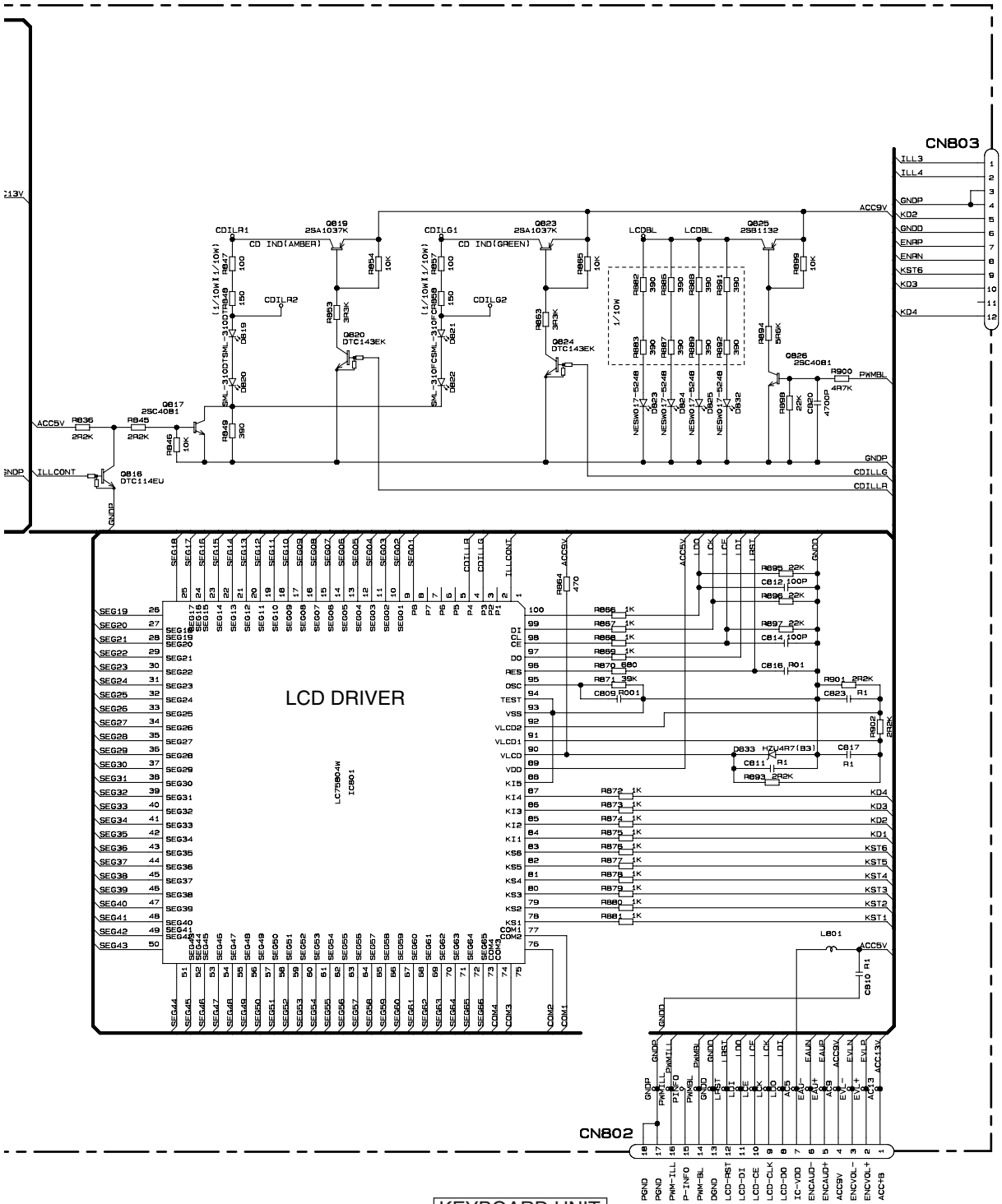
3.5 KEYBOARD PCB



G CN980

B

B KEYBOARD PCB



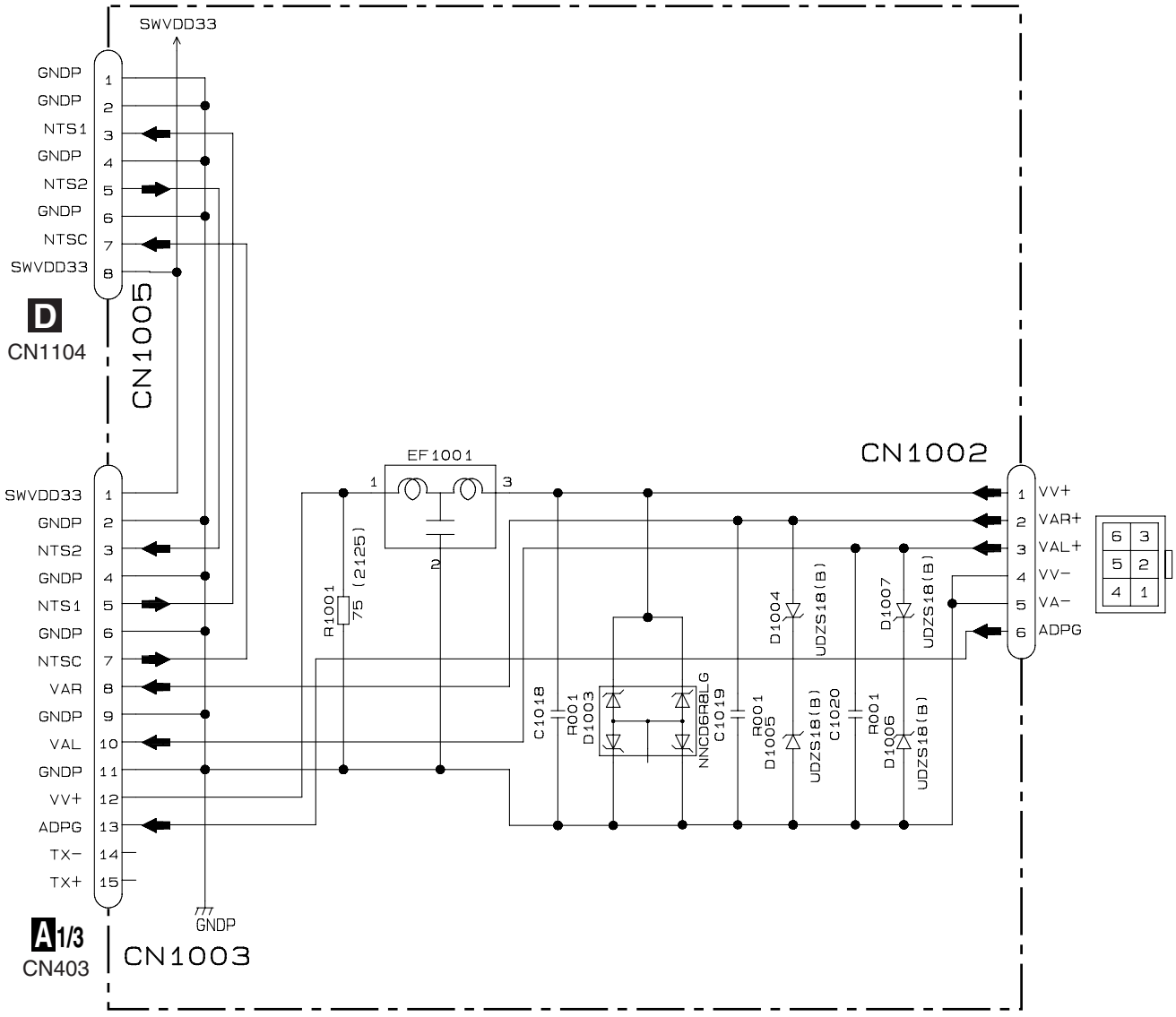
H CN990

A 1/3 CN408

KEYBOARD UNIT
Consists of
KEYBOARD PCB
L PCB
R PCB

3.6 CONNECTOR1 PCB

C CONNECTOR1 PCB

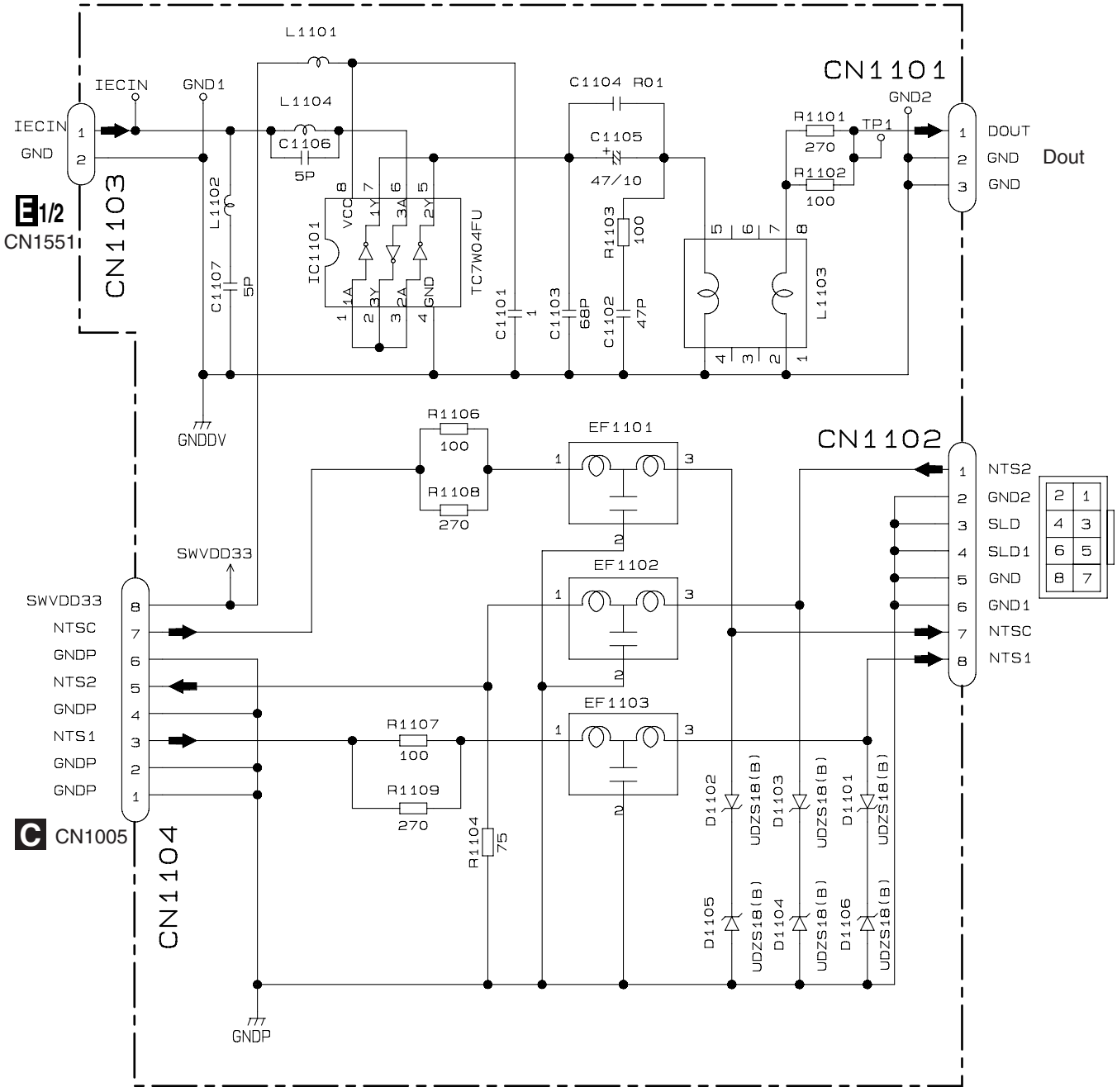


CONNECTOR UNIT
Consists of
CONNECTOR1 PCB
CONNECTOR2 PCB

C

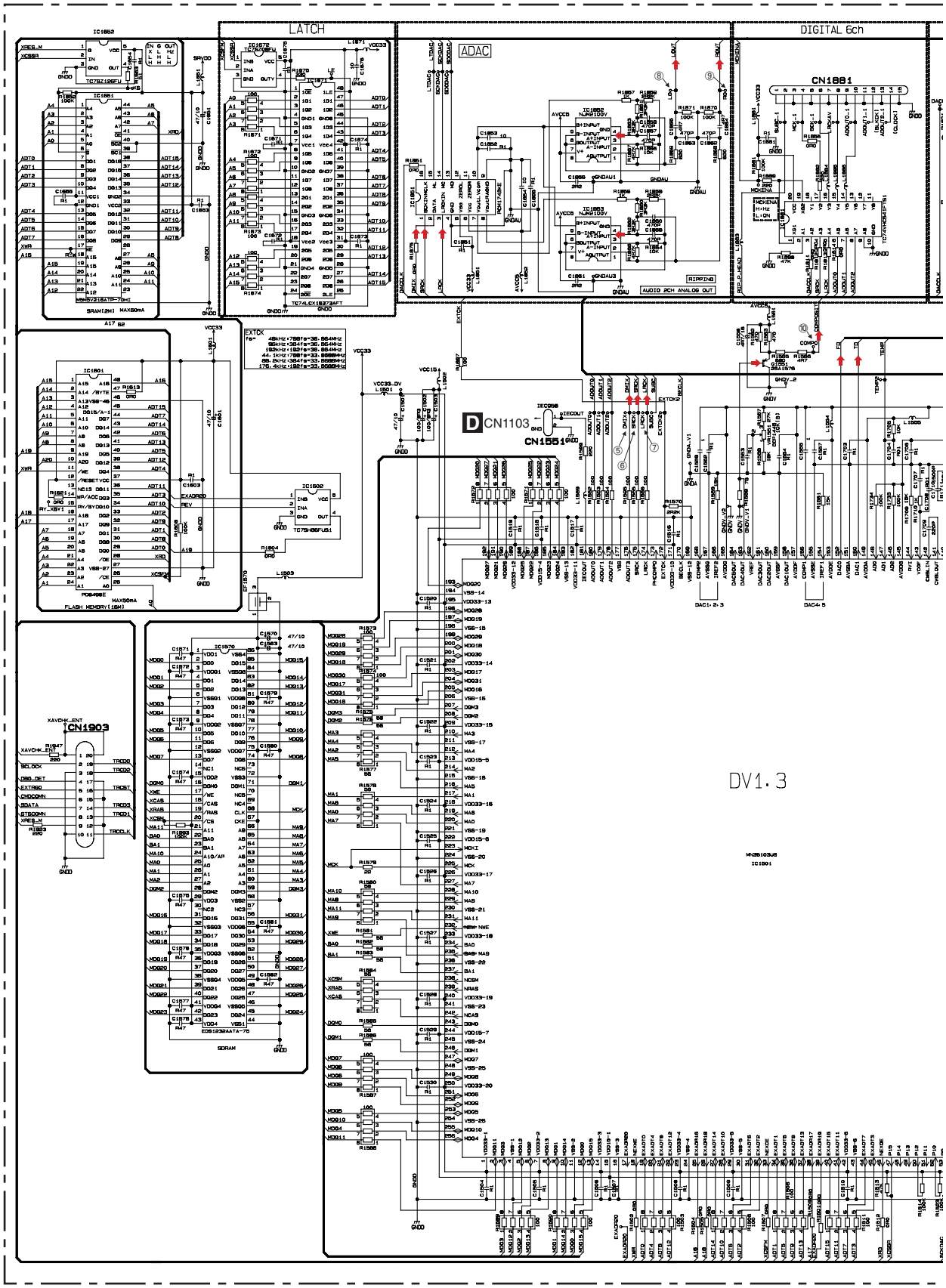
3.7 CONNECTOR2 PCB

D CONNECTOR2 PCB



CONNECTOR UNIT
Consists of
CONNECTOR1 PCB
CONNECTOR2 PCB

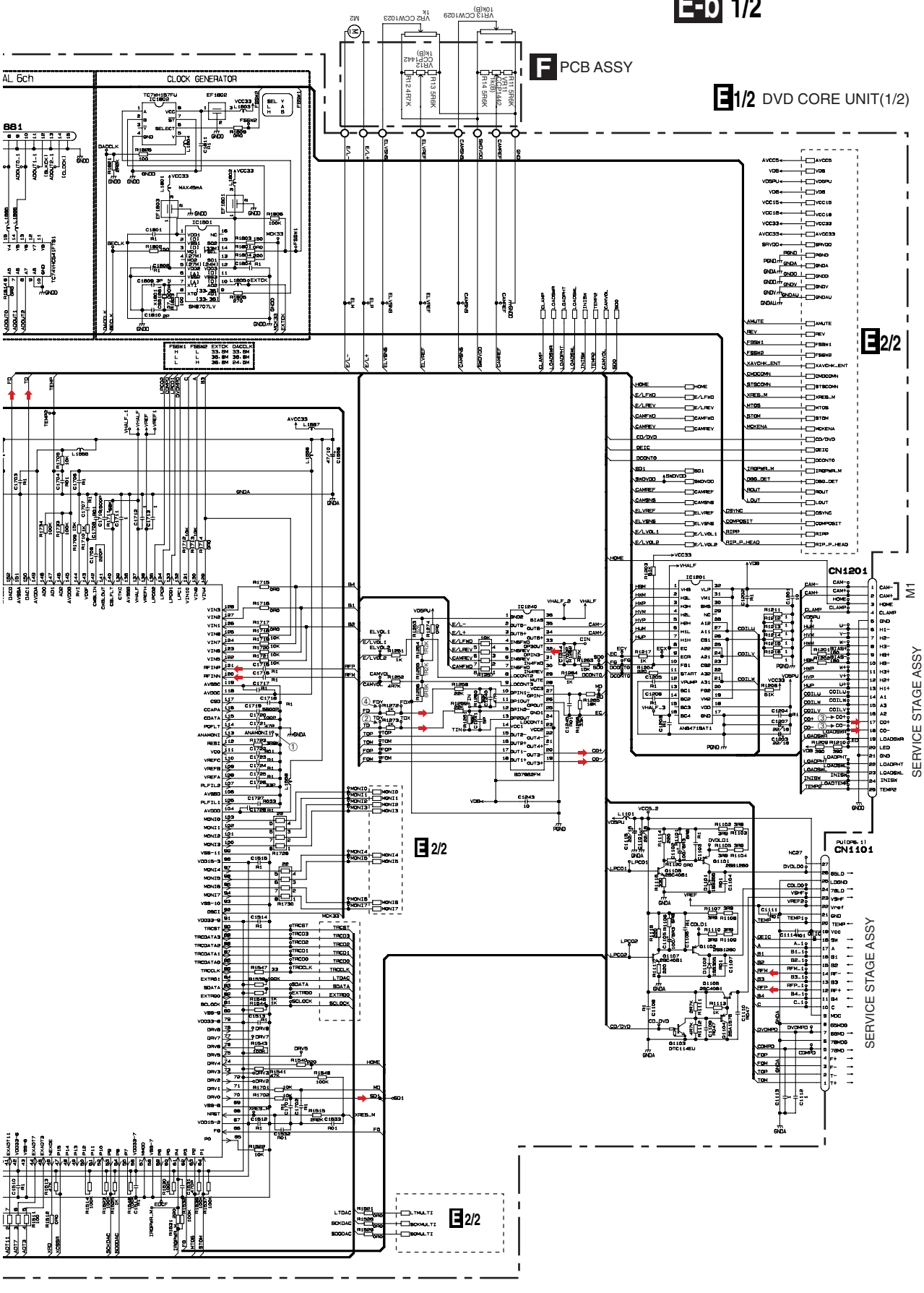
3.8 DVD CORE UNIT(1/2)(GUIDE PAGE)



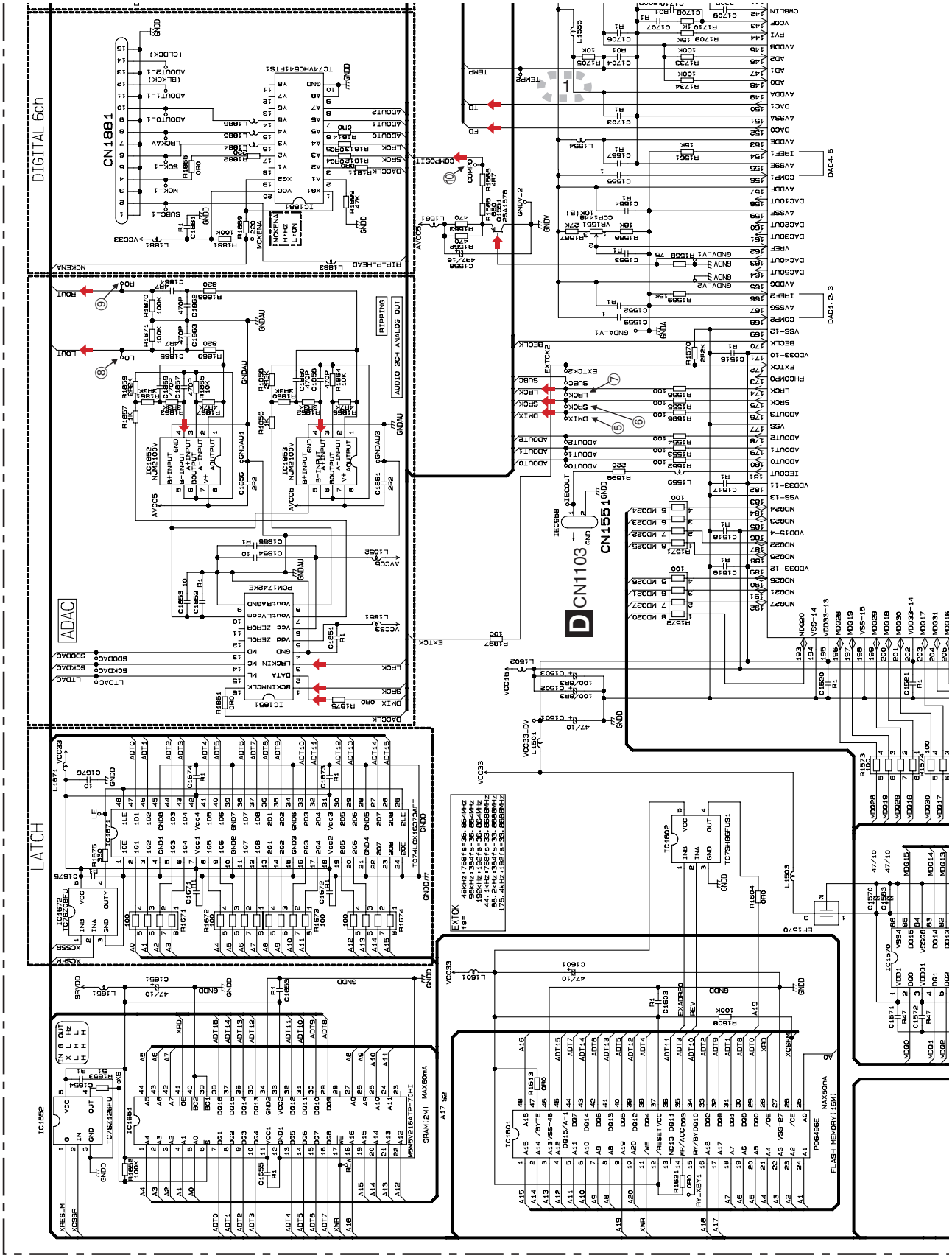
E-b 1/2

F PCB ASSY

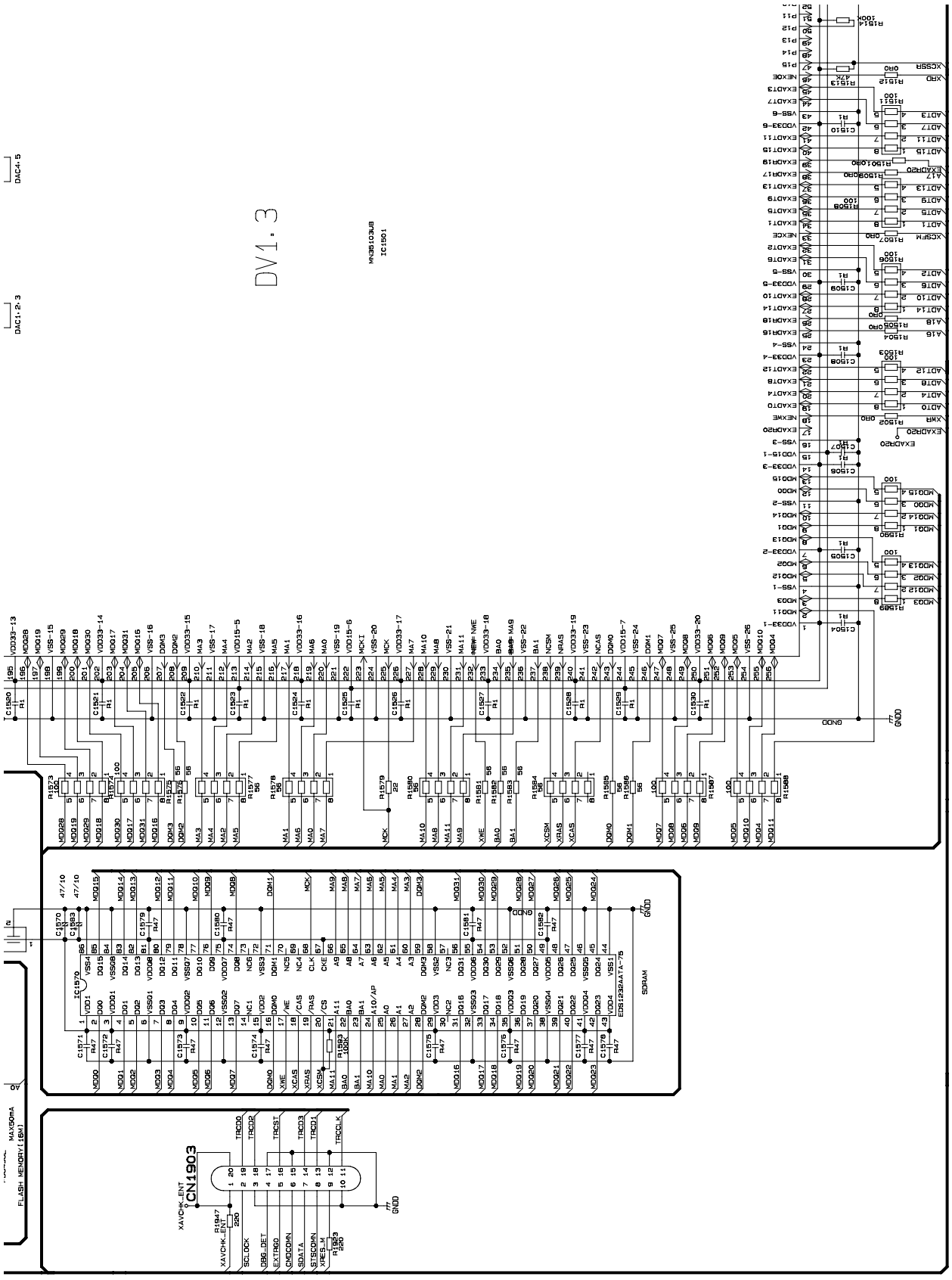
E1/2 DVD CORE UNIT(1/2)



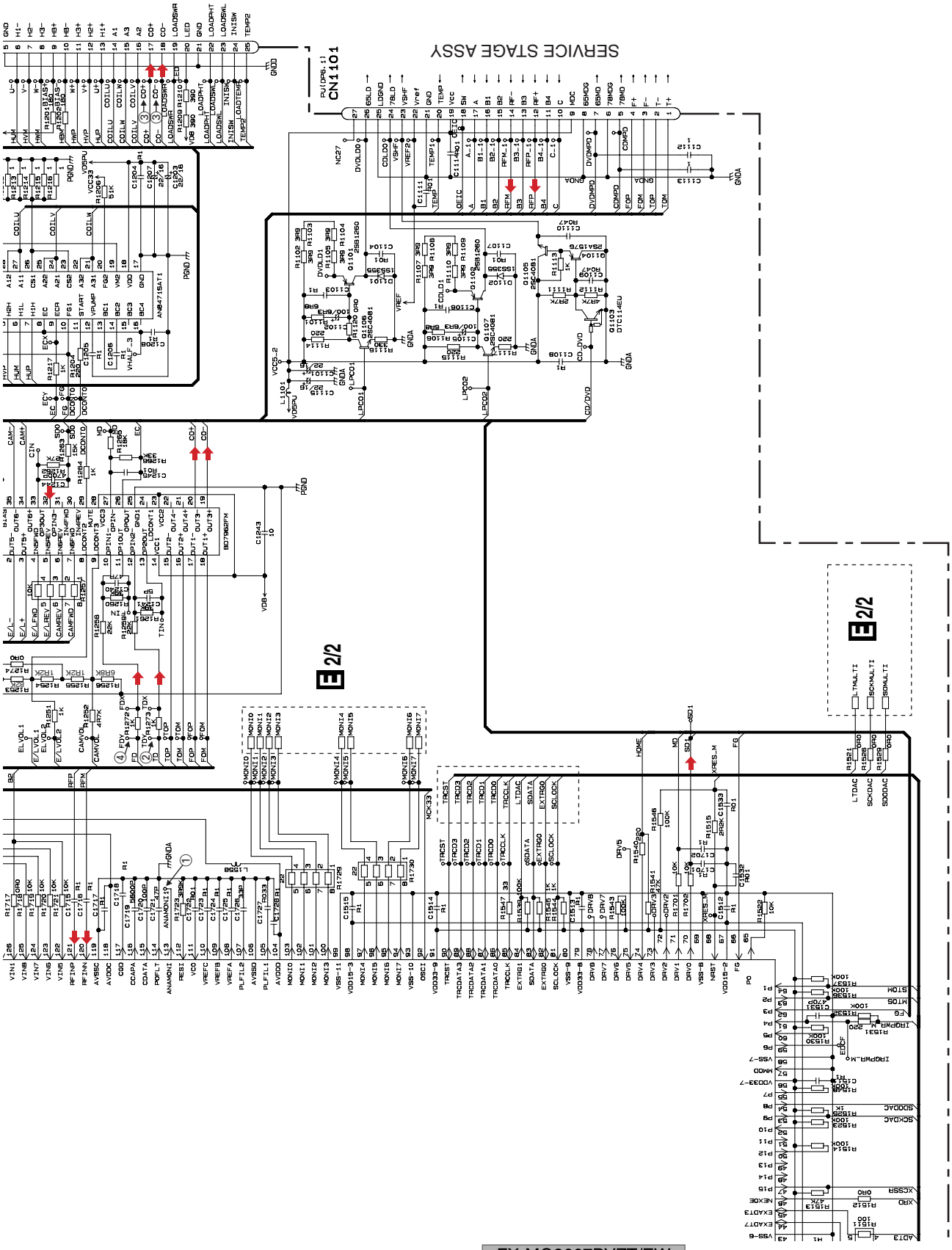
E1/2 F


DIGITAL 6ch
CN1881
ADAC
AUDIO 2CH ANALOG OUT
LATCH
CN1103
CN1551
DAC4-5
DAC1-2-3
FLASH MEMORY(16M)
SRAM(2M)

E-a E-b

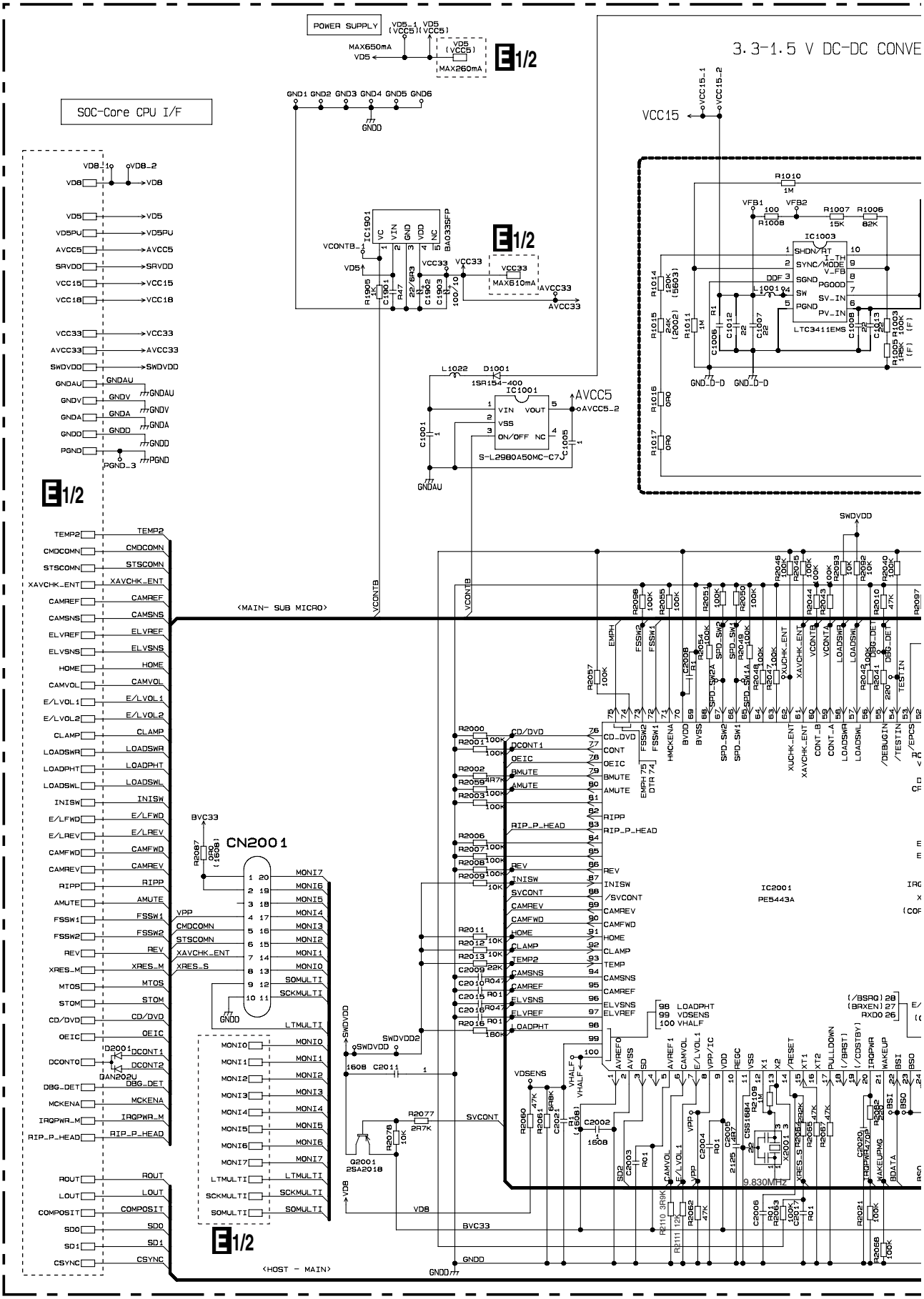

DV1.3
E-b 1/2
E-a 1/2
E-b
E-a
SDRAM
FLASH MEMORY(16M)
CN1903
IC1570
IC1501

E-a E-b
F PCB ASSY
E1/2 DVD CORE UNIT(1/2)
E2/2
M1
TAGE ASSY
CN1201
IC1201
IC1240
CLOCK GENERATOR
M2
VR13 CCW1029 10k(B)
VR2 CCW1023 1k
R11 5R6K
VR11 CCP1442 1k(B)
R14 5R6K
R13 5R6K
R12 4R7K
GND
CAMREF
SWDVDD
CAMSNS
ELVREF
ELVSNS
E/L+
E/L-
F
E-b 1/2

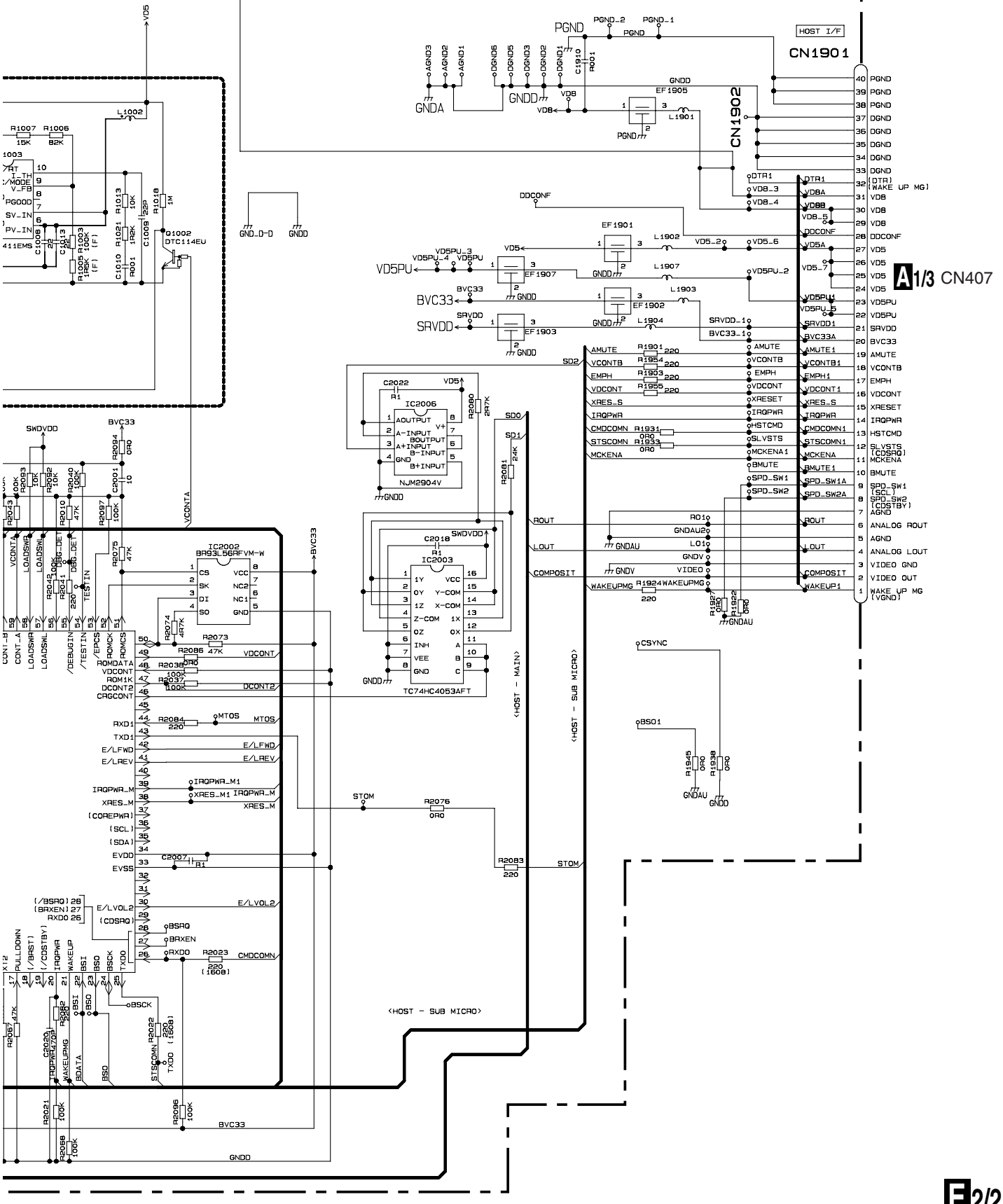


E-a E-b

3.9 DVD CORE PCB(2/2)

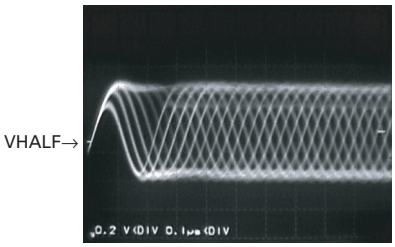
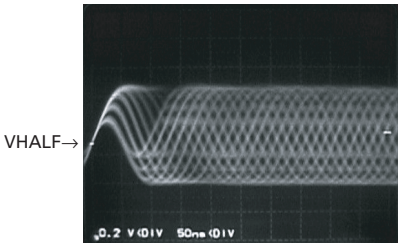
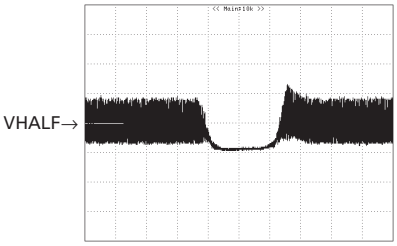
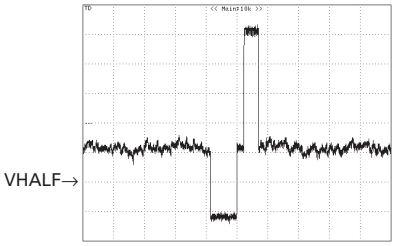
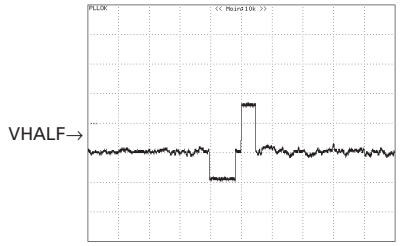
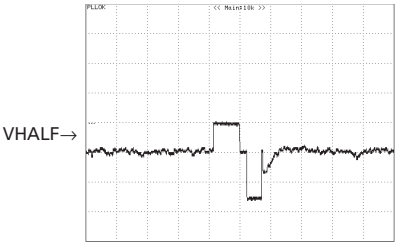
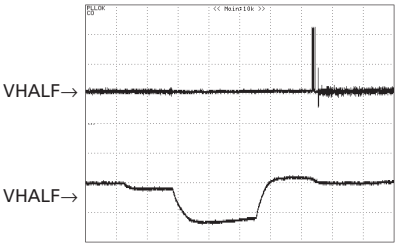
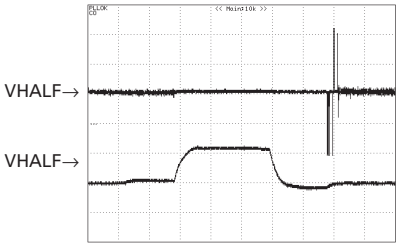
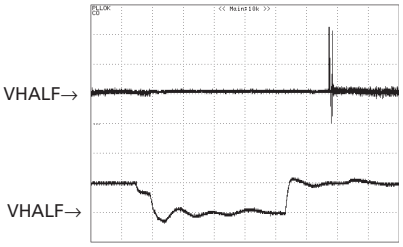
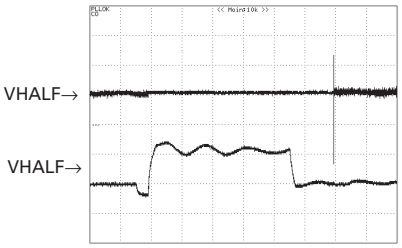
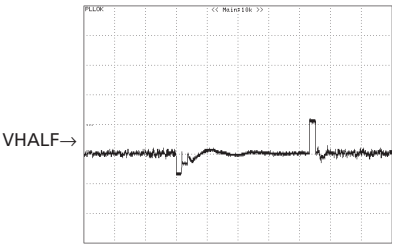
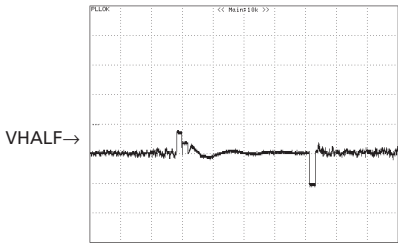


E2/2 DVD CORE UNIT(2/2)

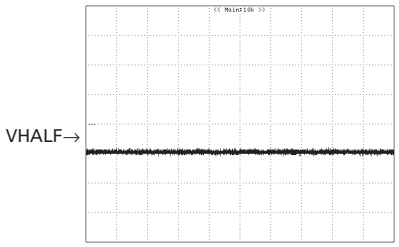


● Waveforms

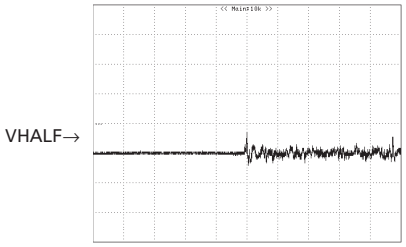
Note:1. The encircled number denote measuring pointes in the circuit diagram.
2. Reference voltage VHALF : 1.65V(TD1,FD1,CRGDRV)
: 2V Center(ANAMONI1)
In this waveform, it is seeing on the GND standard.
Offset of 1.65V or 2V is put in.

① ANAMONI1 0.2V/div. 0.1µs/div. CDRF 	① ANAMONI1 0.2V/div. 0.1µs/div. DVDRF 	① ANAMONI1 0.5V/div. 100µs/div. DVDRF(BD1mm) 
② TDY 0.2V/div. 100µs/div. Interval 	② TDY 0.5V/div. 100µs/div. Interval FWD 	② TDY 0.5V/div. 100µs/div. Interval REV 
② CH1: TDY 0.5V/div.5ms/div. ③ CH2:(CO+)-(CO-) 2.0V/div.5ms/div. Traverse501FWD 	② CH1: TDY 0.5V/div.5ms/div. ③ CH2:(CO+)-(CO-) 2.0V/div.5ms/div. Traverse501REV 	② CH1: TDY 0.5V/div.5ms/div. ③ CH2:(CO+)-(CO-) 2.0V/div.5ms/div. Traverse5000FWD 
② CH1: TDY 0.5V/div.5ms/div. ③ CH2:(CO+)-(CO-) 2.0V/div.5ms/div. Traverse5000REV 	② TDY 0.5V/div.500µs/div. Multi 32FWD 	② TDY 0.5V/div.500µs/div. Multi 32REV 

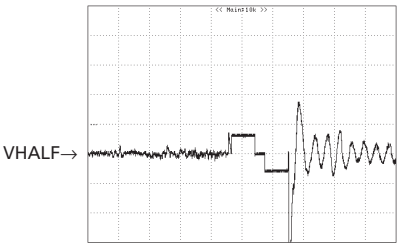
② TDY 0.5V/div.20ms/div.
Play TD



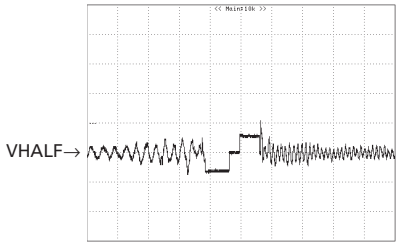
④ FDY 0.5V/div. 1ms/div.
Focus close



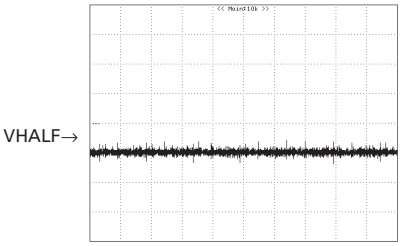
④ FDY 0.5V/div.500µs/div.
Focus jamp L 0 → L1



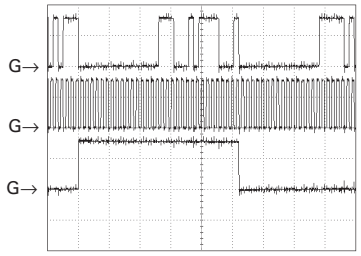
④ FDY 0.5V/div.500µs/div.
Focus jamp L1 → L 0



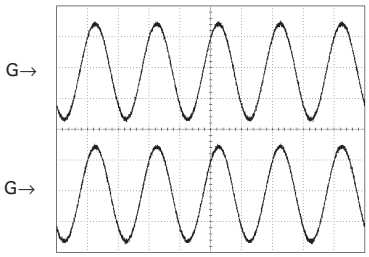
④ FDY 0.5V/div.20ms/div.
Play TD



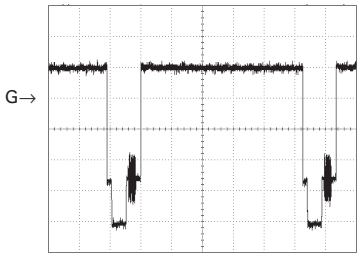
⑤ CH1: ADOUT0
⑥ CH2: SRCK
⑦ CH3: LRCK
2V/div. 2µs/div.



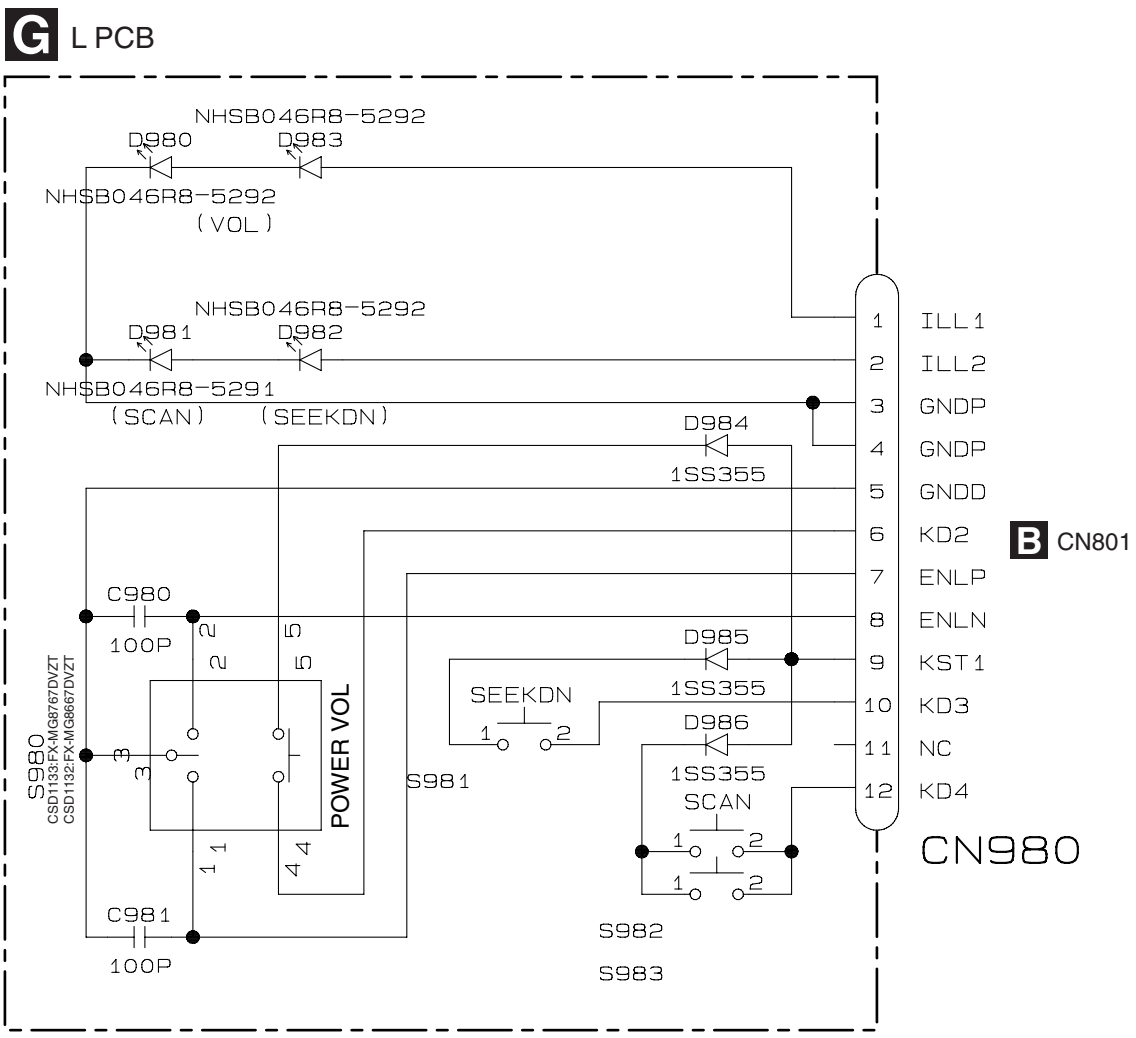
⑧ CH1: LO
⑨ CH2: RO
1V/div. 500µs/div.



⑩ CH1: COMPO 200mV/div. 10µs/div.
[White 100% output]

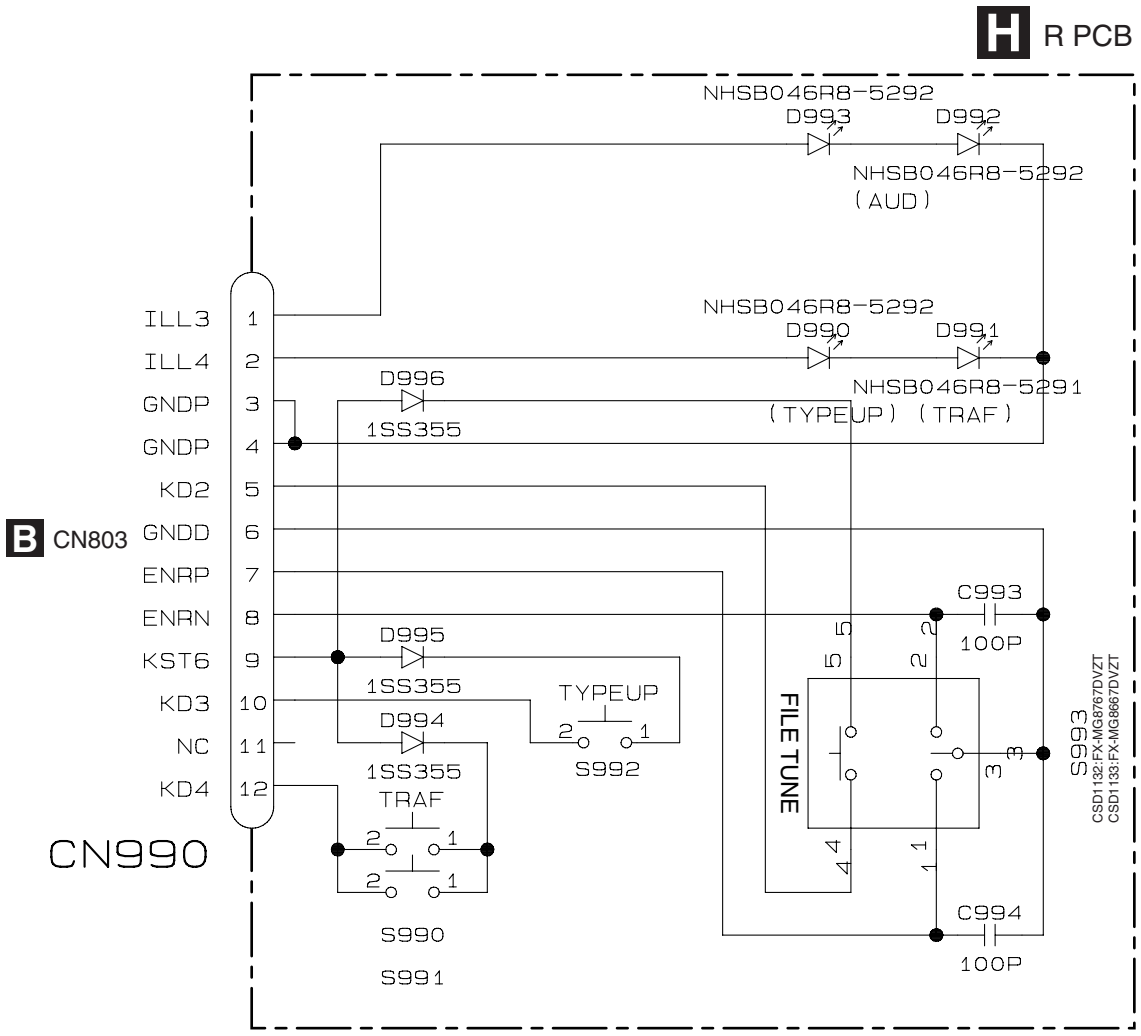


3.10 L PCB



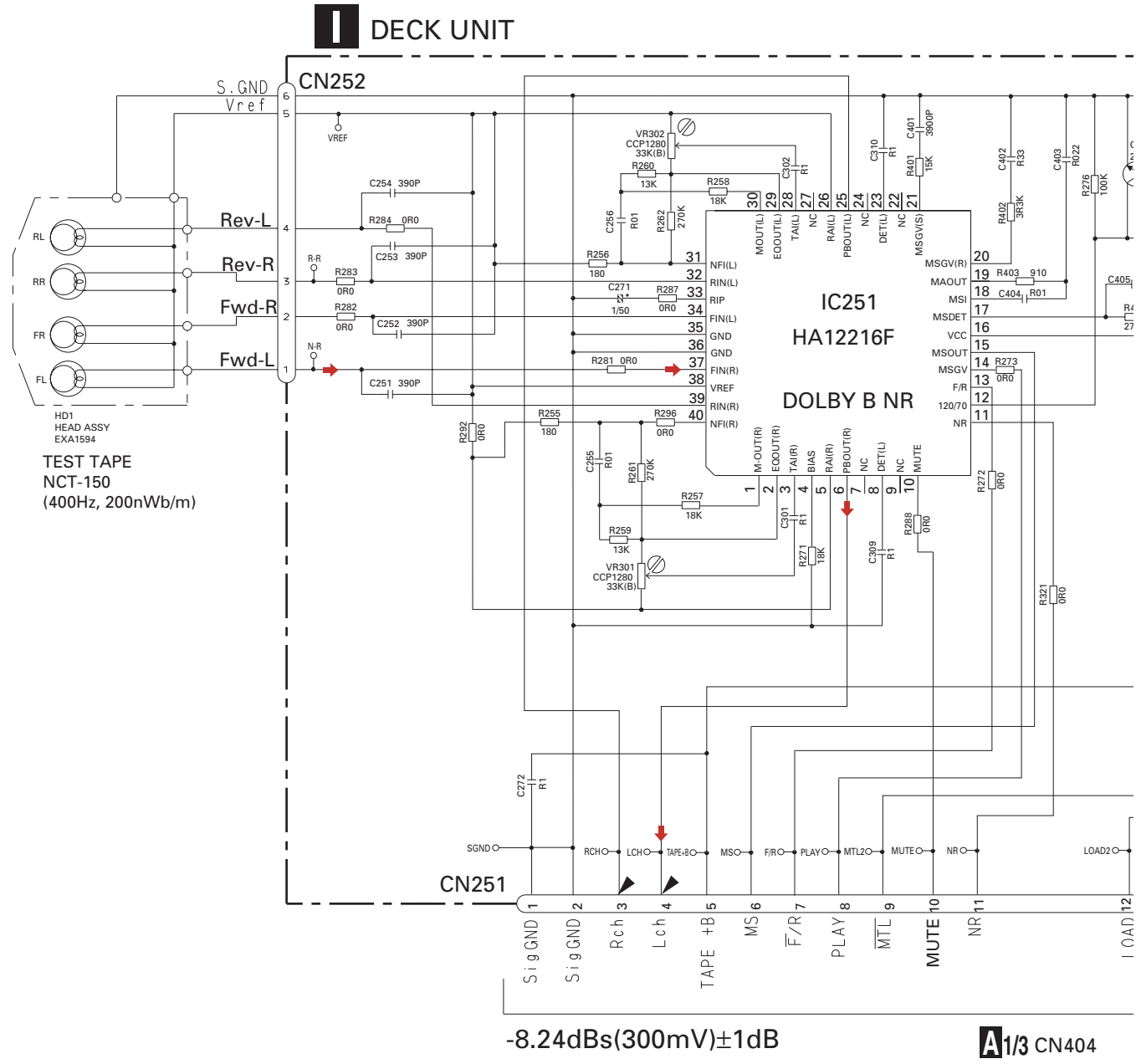
KEYBOARD UNIT
Consists of
KEYBOARD PCB
L PCB
R PCB

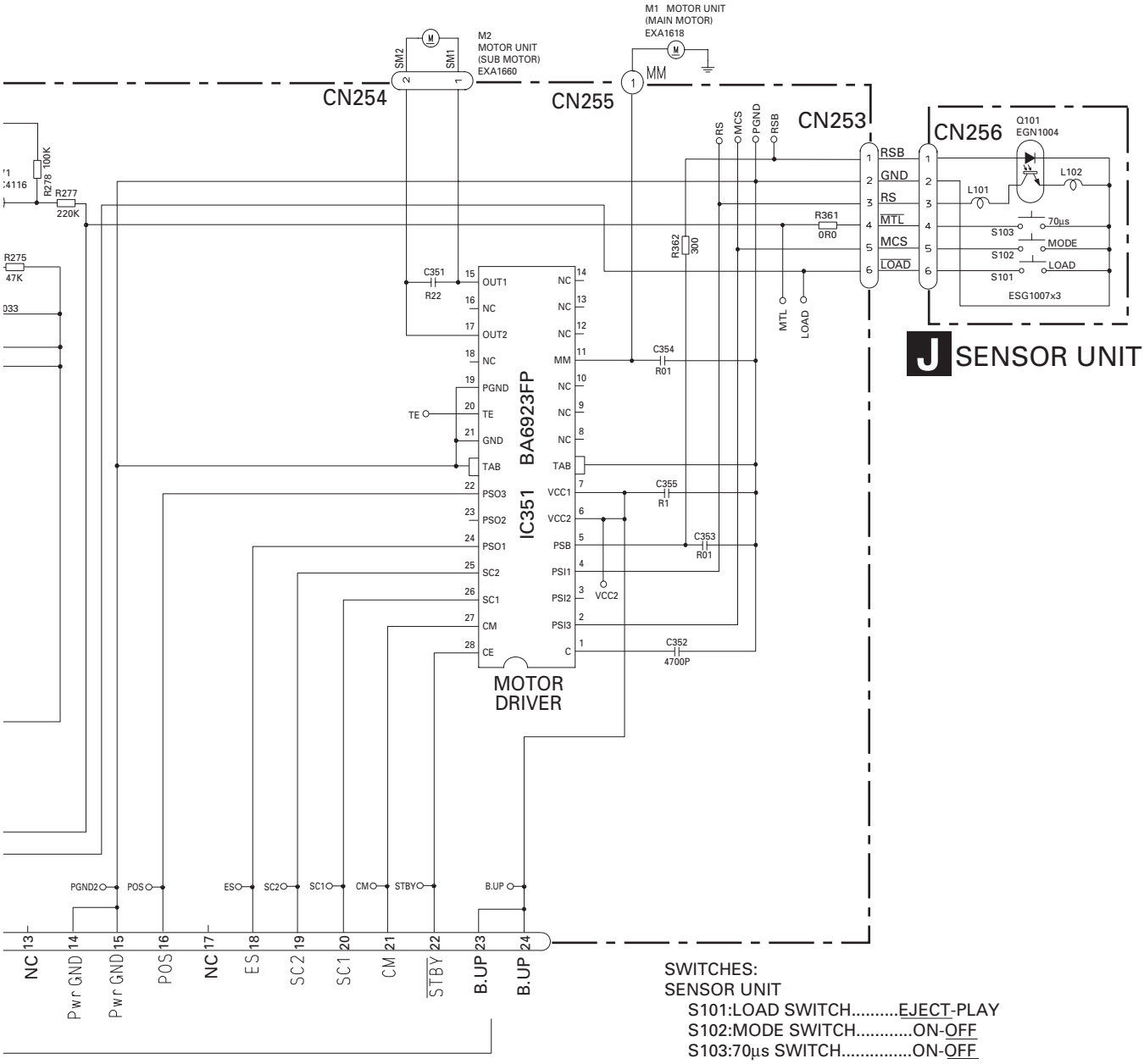
3.11 R PCB



KEYBOARD UNIT
Consists of
KEYBOARD PCB
L PCB
R PCB

3.12 CASSETTE MECHANISM MODULE





SWITCHES:
SENSOR UNIT
S101:LOAD SWITCH.....EJECT-PLAY
S102:MODE SWITCH.....ON-OFF
S103:70µs SWITCH.....ON-OFF
The underlined indicates the switch position.

Main Unit(CN403)<->Connector1 PCB(CN1003)

Pin No	Main Unit	Connector1 PCB	Pin No
1	TX+	TX+	15
2	TX-	TX-	14
3	ADPG	ADPG	13
4	VV+	VV+	12
5	VV-	GNDP	11
6	VAL	VAL	10
7	AGND	GNDP	9
8	VAR	VAR	8
9	NTSC	NTSC	7
10	GNDV	GNDP	6
11	NTS1	NTS1	5
12	GNDV	GNDP	4
13	NTS2	NTS2	3
14	GND	GNDP	2
15	SWVDD33	SWVDD33	1

Connector1 PCB(CN1005)<->Connector2 PCB(CN1104)

Pin No	Connector1 PCB	Connector2 PCB	Pin No
1	GNDP	GNDP	1
2	GNDP	GNDP	2
3	NTS1	NTS1	3
4	GNDP	GNDP	4
5	NTS2	NTS2	5
6	GNDP	GNDP	6
7	NTSC	NTSC	7
8	SWVDD33	SWVDD33	8

Connector2 PCB(CN1103)<->DVD Core Unit(CN1551)

Pin No	Connector2 PCB	DVD Core Unit	Pin No
1	IECIN	IEC OUT	1
2	GND	GNDD	2

Main Unit(CN404)<->Deck Unit(CN251)

Pin No	Main Unit	Deck Unit	Pin No
1	SGND	SigGND	1
2	SGND	SigGND	2
3	CSR	Rch	3
4	CSL	Lch	4
5	TAPEB	TAPE+B	5
6	MS	MS	6
7	DIR	F/R	7
8	PLAY	PLY	8
9	MTL	MTL	9
10	CSMUTE	MUTE	10
11	NR	NR	11
12	LOAD	LOAD	12
13	NC	NC	13
14	GND	PwrGND	14
15	GND	PwrGND	15
16	POS	POS	16
17	NC	NC	17
18	ES	ES	18
19	SC2	SC2	19
20	SC1	SC1	20
21	CM	CM	21
22	STBY	STBY	22
23	CS12V	B.UP	23
24	CS12V	B.UP	24

Main Unit(CN408)<->Keyboard Unit(CN802)

Pin No	Main Unit	Keyboard Unit	Pin No
1	ACC+B	ACC+B	1
2	ENCVOL+	ENCVOL+	2
3	ENCVOL-	ENCVOL-	3
4	ACC9V	ACC9V	4
5	ENCAUD+	ENCAUD+	5
6	ENCAUD-	ENCAUD-	6
7	ICVDD	IC-VDD	7
8	LCDDO	LCD-DO	8
9	LCDCK	LCD-CLK	9
10	LCDCE	LCD-CE	10
11	LCDDI	LCD-DI	11
12	(LCDRST)	LCD-RST	12
13	DGND	DGND	13
14	PWLBL	PWM-BL	14
15	P-INFO	P-INFO	15
16	PWMILL	PWM-ILL	16
17	PGND	PGND	17
18	PGND	PGND	18

Keyboard Unit(CN801)<->LEFT PCB(CN980)

Pin No	Keyboard Unit	Left PCB	Pin No
1	ILL1	ILL1	1
2	ILL2	ILL2	2
3	GNDP	GNDP	3
4	GNDP	GNDP	4
5	GNDD	GNDD	5
6	KD2	KD2	6
7	ENLP	ENLP	7
8	ENLN	ENLN	8
9	KST1	KST1	9
10	KD3	KD3	10
11	NC	NC	11
12	KD4	KD4	12

Keyboard Unit(CN803)<->RIGHT PCB(CN990)

Pin No	Keyboard Unit	Right PCB	Pin No
1	ILL3	ILL3	1
2	ILL4	ILL4	2
3	GNDP	GNDP	3
4	GNDP	GNDP	4
5	KD2	KD2	5
6	GNDD	GNDD	6
7	ENRP	ENRP	7
8	ENRN	ENRN	8
9	KST6	KST6	9
10	KD3	KD3	10
11	NC	NC	11
12	KD4	KD4	12

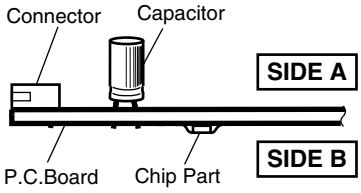
Main Unit(CN407)<->DVD Core Unit(CN1901)

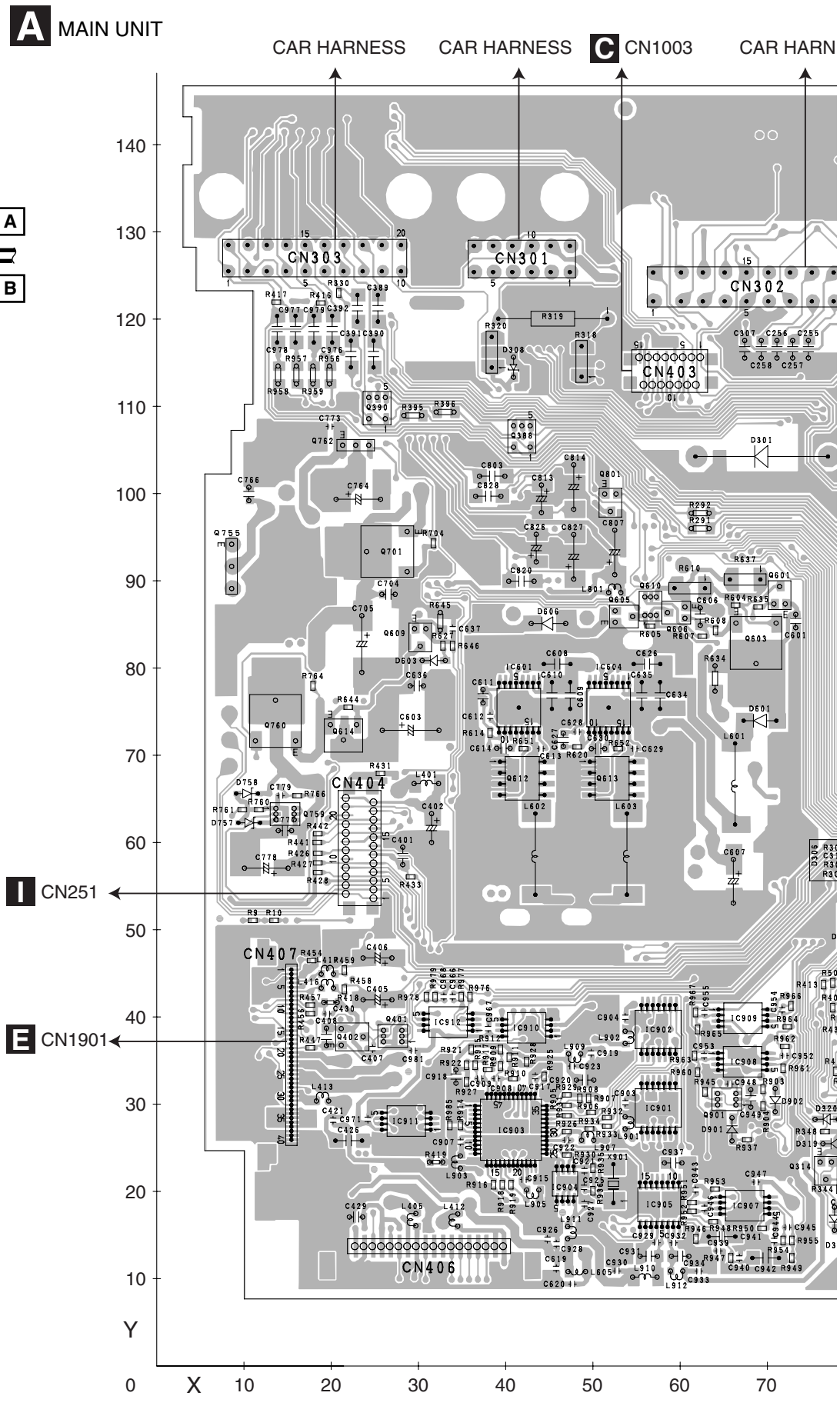
Pin No	Main Unit	DVD Core Unit	Pin No
1	MAKE UP MG	MAKEUP MG	1
2	VIDEO OUT	VIDEO OUT/YSIG	2
3	VIDEO GND	VIDEO GND	3
4	ANA LOUT	ANALOG LOUT	4
5	AGND	AGND	5
6	ANA ROUT	ANALOG ROUT	6
7	AGND	AGND	7
8	SPD-SW2	SPD_SW2	8
9	SPD-SW1	SPD_SW1	9
10	BMUTE	BMUTE	10
11	MCKENA	MCKENA	11
12	SLVSTS	SLVSTS	12
13	HSTCMD	HSTCMD	13
14	IRQPWR	IRQPWR	14
15	XRESET	XRESET	15
16	VDCONT	VDCONT	16
17	EMPH	EMPH	17
18	VCONTB	VDCONTB	18
19	AMUTE	AMUTE	19
20	BVC33	BVC33	20
21	SRVDD	SRVDD	21
22	VD5	VD5PU	22
23	VD5	VD5PU	23
24	VD5	VD5	24
25	VD5	VD5	25
26	VD5	VD5	26
27	VD5	VD5	27
28	DDCONF	DDCONF	28
29	VD8	VD8	29
30	VD8	VD8	30
31	VD8	VD8	31
32	(MAKEUPMG,DTR)	MAKEUP MG	32
33	DGND	DGND	33
34	DGND	DGND	34
35	DGND	DGND	35
36	DGND	DGND	36
37	DGND	DGND	37
38	PGND	PGND	38
39	PGND	PGND	39
40	PGND	PGND	40

4. PCB CONNECTION DIAGRAM
4.1 MAIN UNIT

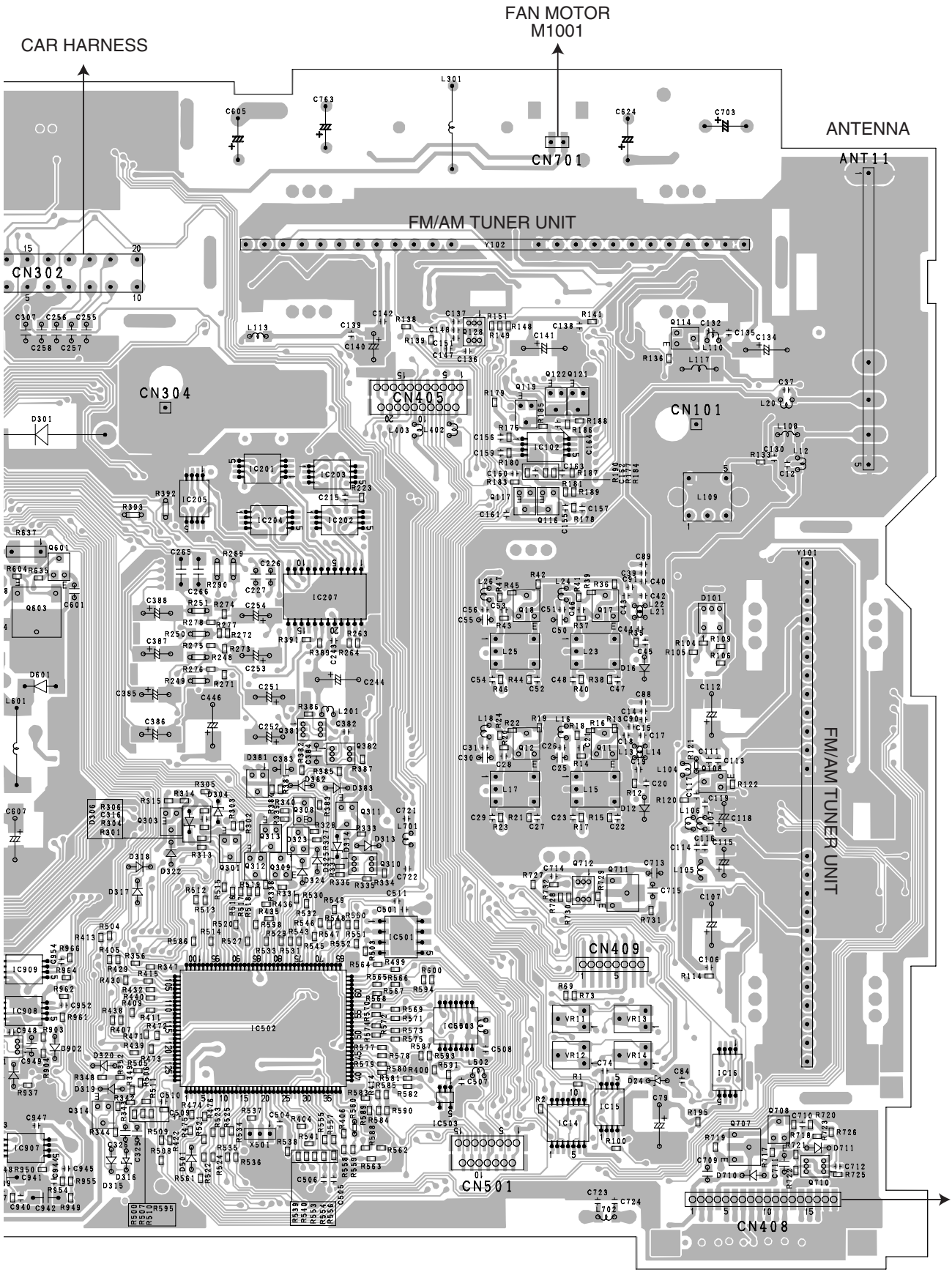
NOTE FOR PCB DIAGRAMS

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

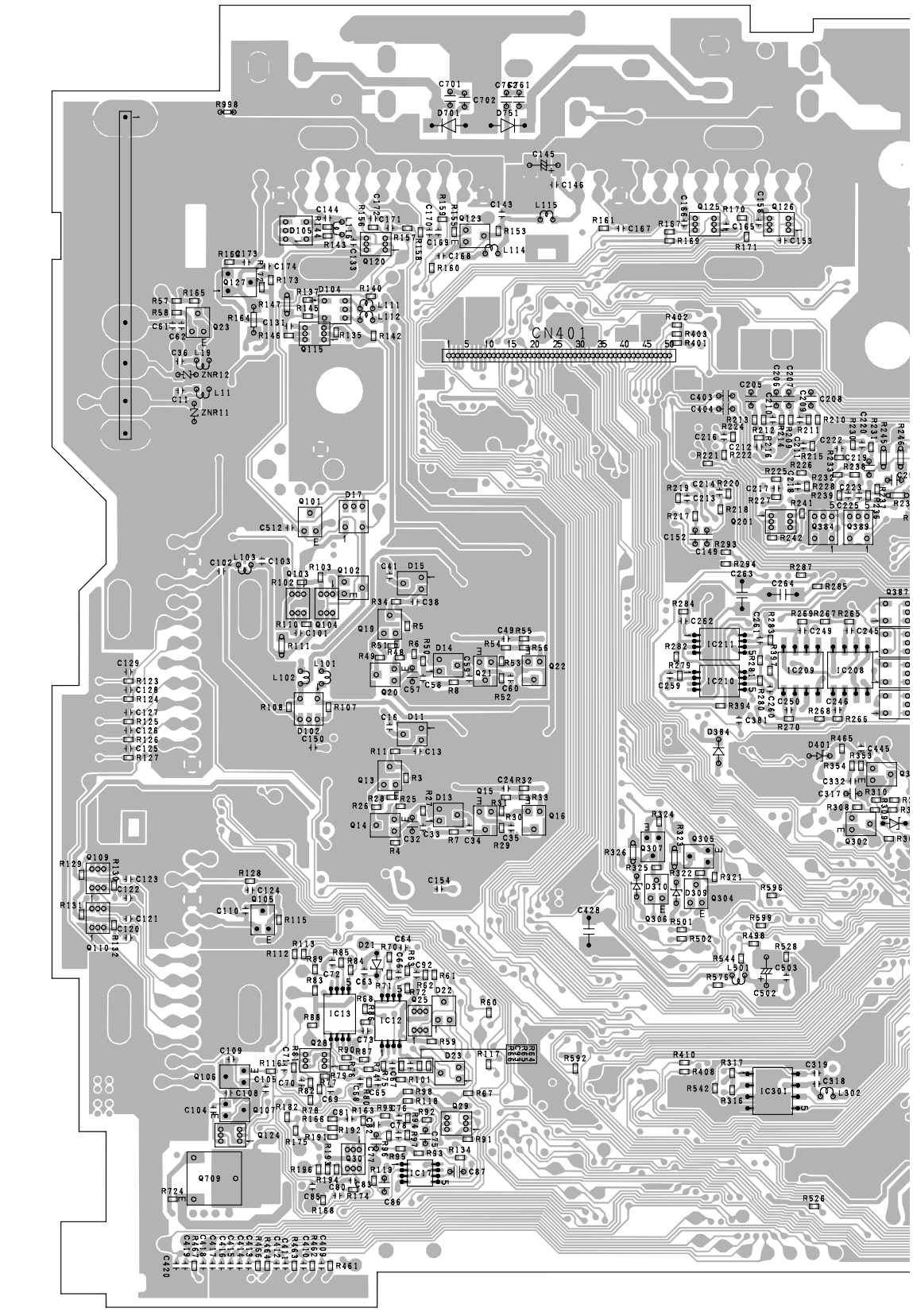




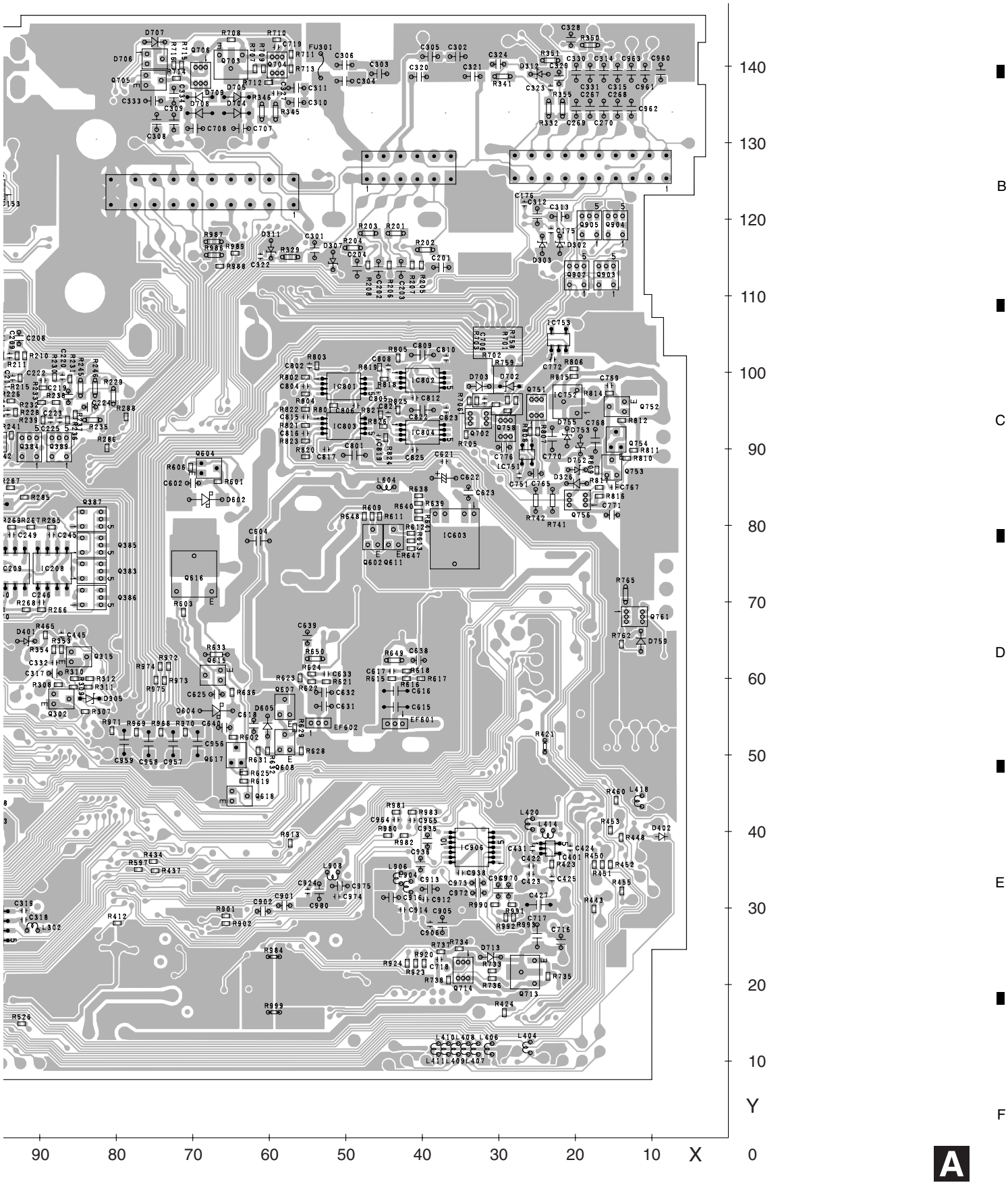
SIDE A


FAN MOTOR
M1001
CAR HARNESS
ANTENNA
ANT11
CN701
CN302
FM/AM TUNER UNIT
Y102
CN304
CN405
CN101
CN409
CN501
CN408
CN802
FM/AM TUNER UNIT
FRONT
70 80 90 100 110 120 130 140 150 160 170 180

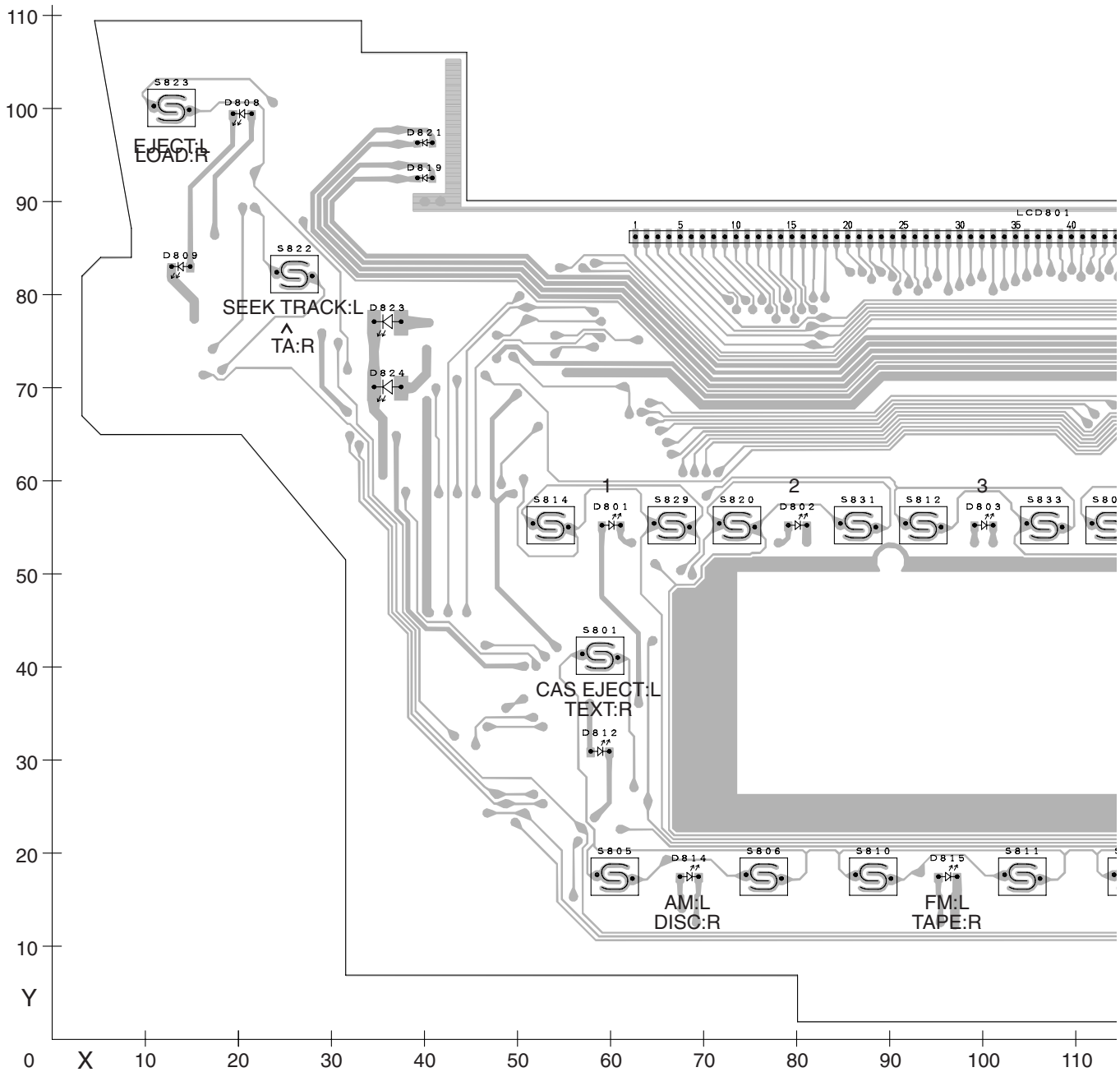
A MAIN UNIT


CN401
1 5 10 15 20 25 30 35 40 45 50
180 170 160 150 140 130 120 110 100 90
A
A

SIDE B

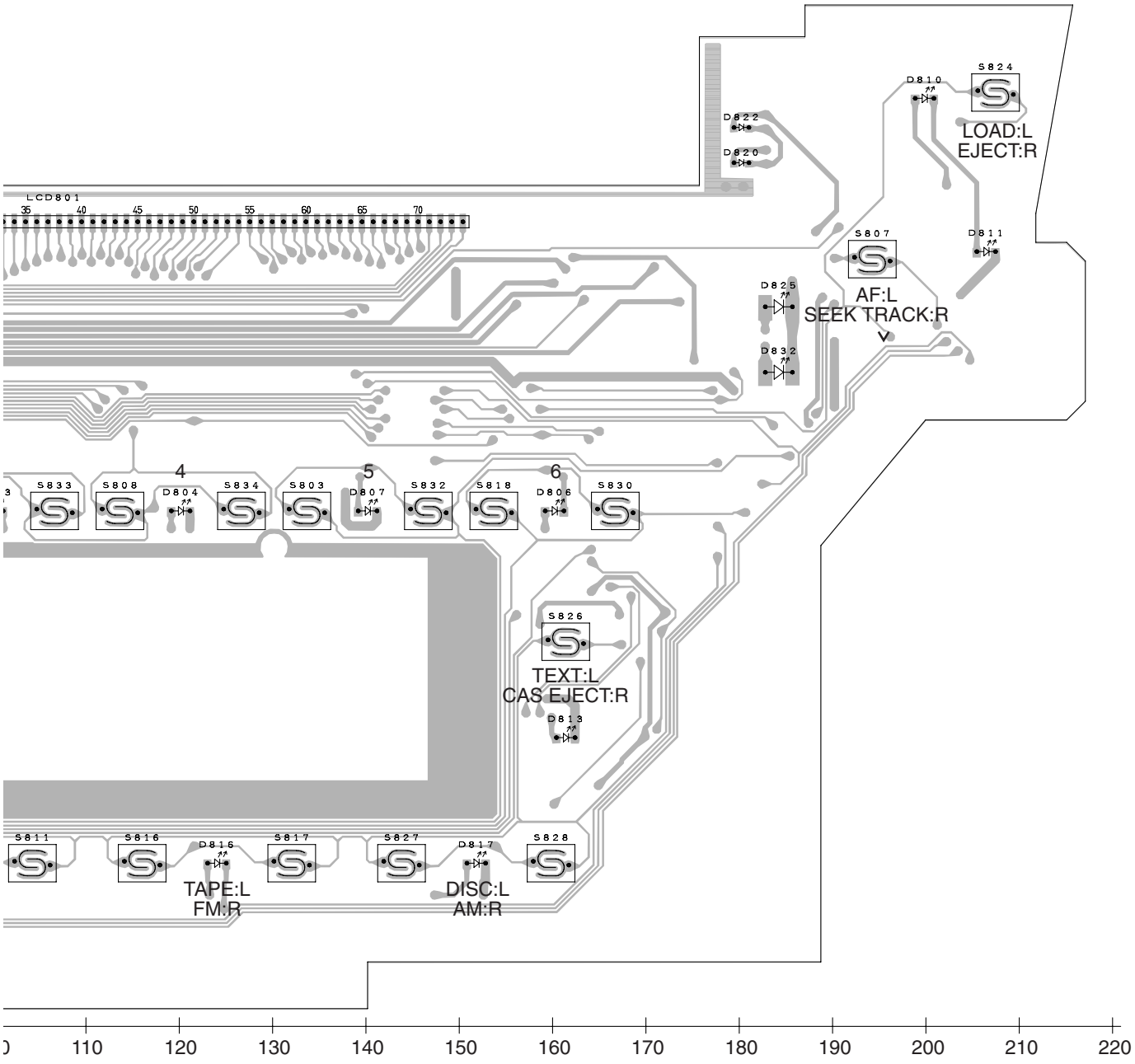

A
B
C
D
E
F
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
90
80
70
60
50
40
30
20
10
X

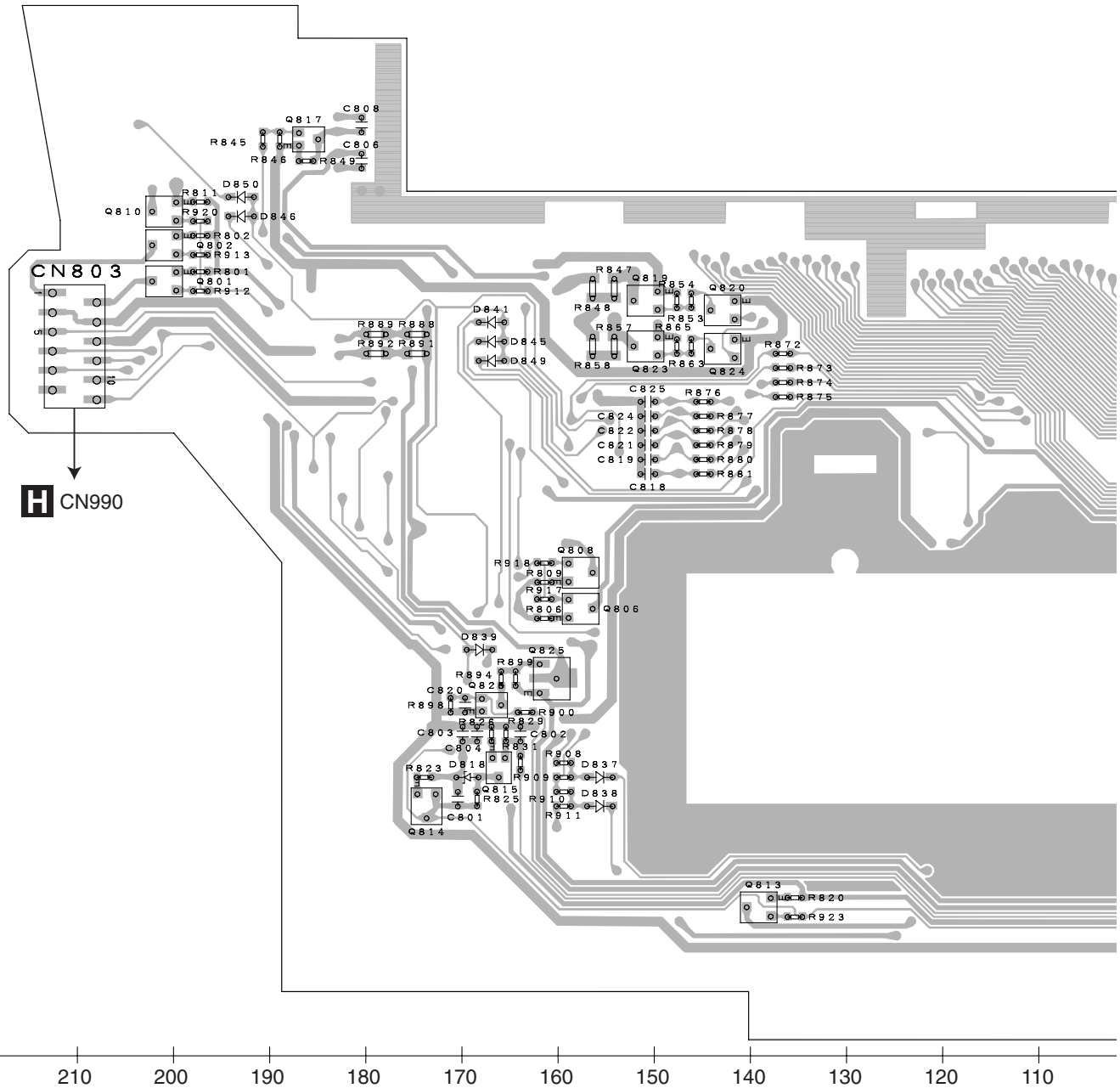
4.2 KEYBOARD PCB



SIDE A

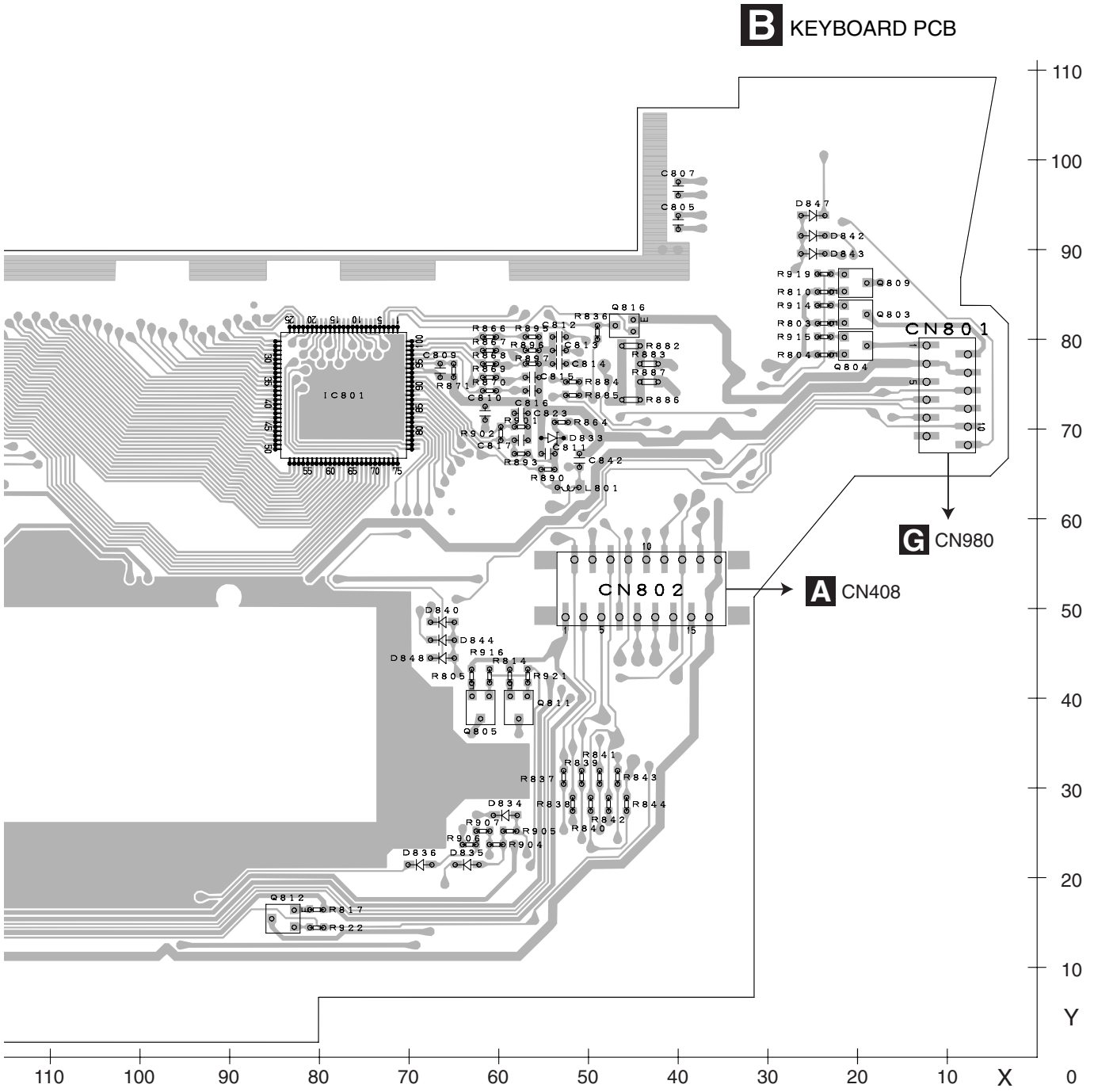
B KEYBOARD PCB




CN803
H CN990
Q817
C808
C806
R845
R846
R849
D850
R811
Q810
R920
D846
R802
Q802
R913
R801
Q801
R912
R889
R888
R892
R891
D841
D845
D849
R847
Q819
R854
Q820
R848
R853
R857
R865
R858
R863
Q823
Q824
R872
R873
R874
R875
C825
R876
C824
R877
C822
R878
C821
R879
C819
R880
R881
C818
Q808
R918
R809
R917
R805
Q806
D839
Q825
R899
R894
Q826
C820
R898
R900
R829
C803
C802
C804
R831
R908
R823
D818
R909
D837
Q815
R825
R910
D838
C801
R911
Q814
Q813
R820
R923
220
210
200
190
180
170
160
150
140
130
120
110

B

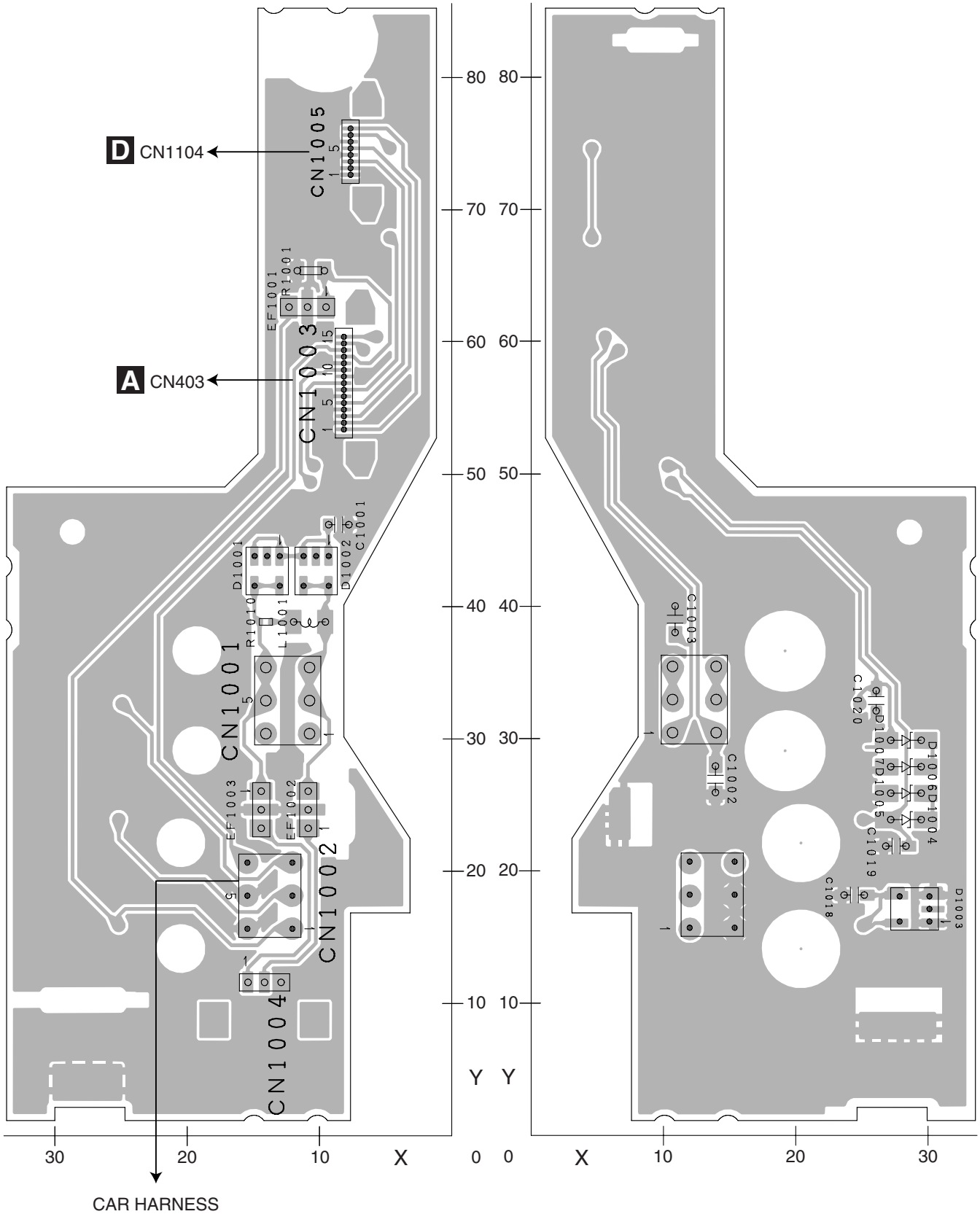
SIDE B


B KEYBOARD PCB
IC801
CN801
CN802
G CN980
A CN408
C807
C805
D847
D842
D843
R919
R810
R914
R803
R915
R804
Q809
Q803
Q804
R836
Q816
R882
R883
R887
R884
R885
R886
C809
C810
C816
C823
R901
R902
C817
D833
C811
C842
R893
R890
L801
D840
D844
D848
R916
R814
R805
R921
Q811
Q805
R841
R839
R837
R843
D834
R838
R844
R842
R907
R840
R905
R906
R904
D836
D835
Q812
R817
R922
110
100
90
80
70
60
50
40
30
20
10
0
X
Y

4.3 CONNECTOR1 PCB

C CONNECTOR1 PCB **SIDE A**

C CONNECTOR1 PCB **SIDE B**

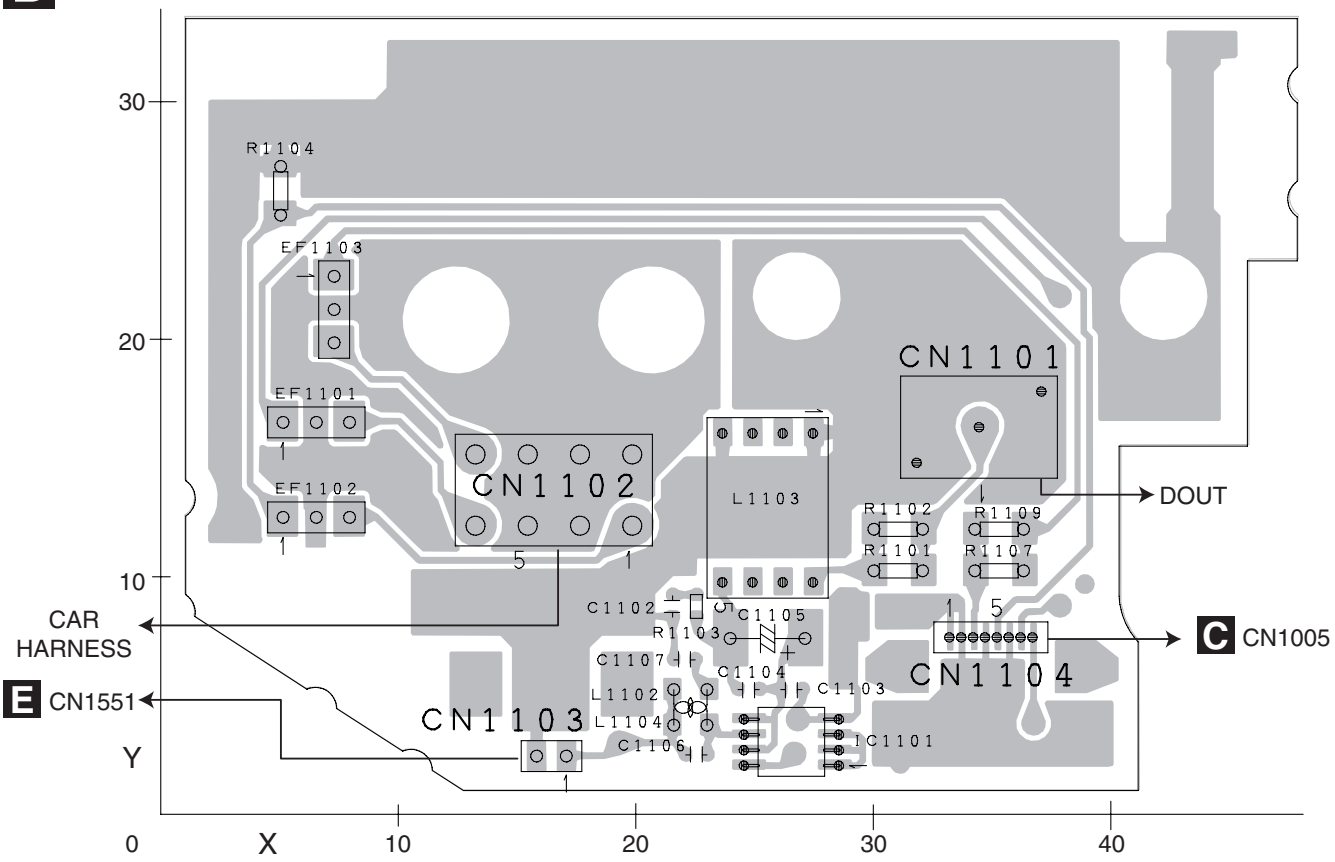


C

4.4 CONNECTOR2 PCB

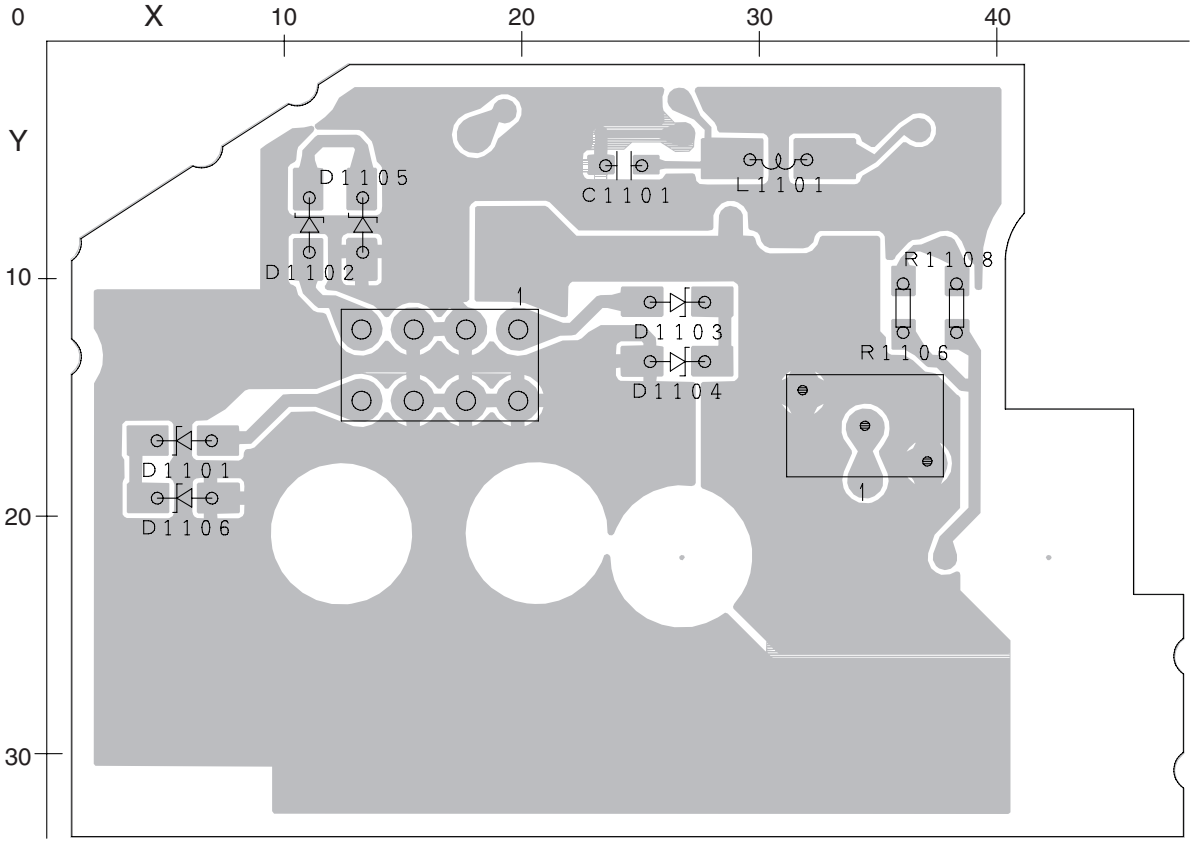
D CONNECTOR2 PCB

SIDE A



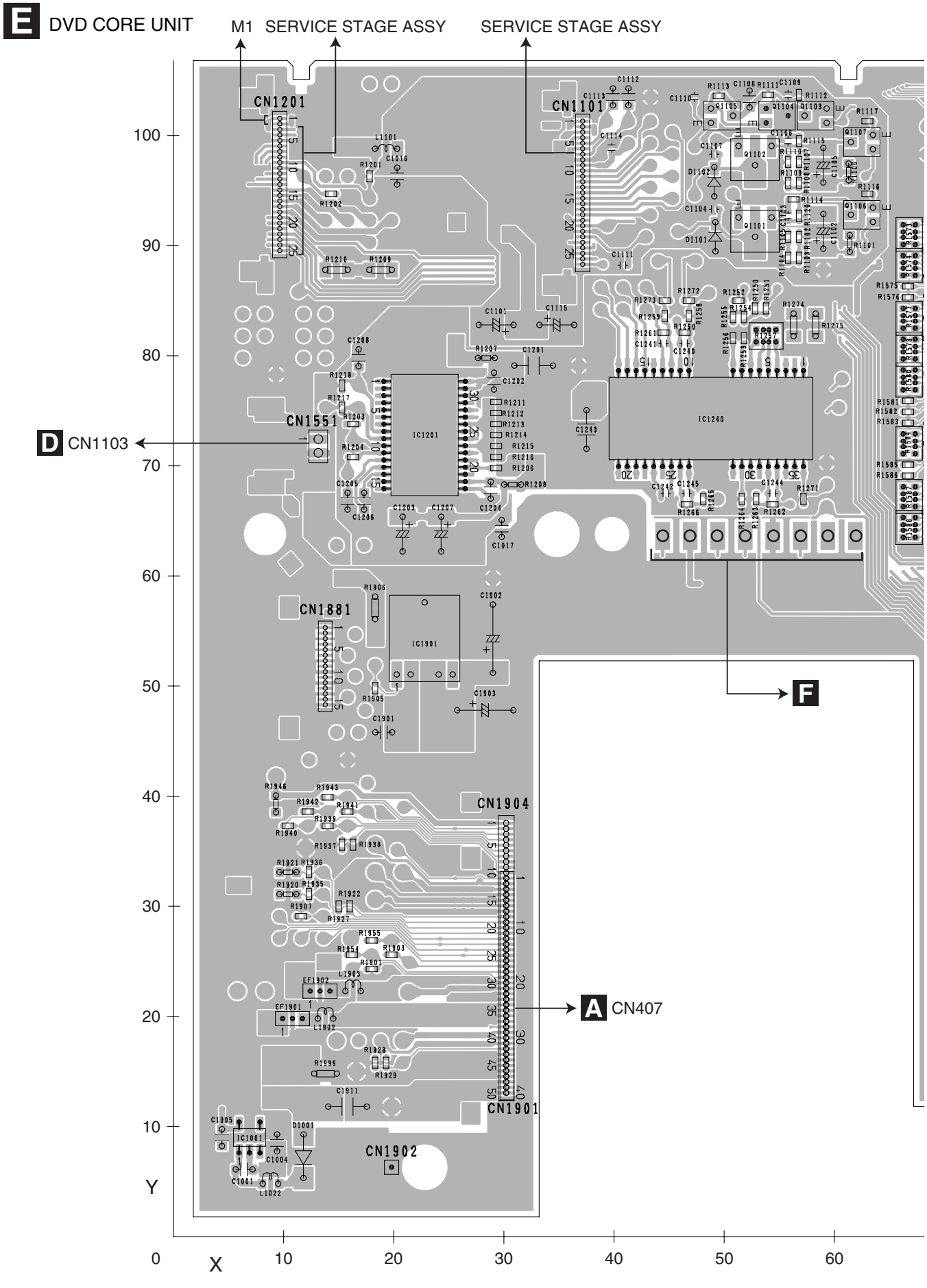
D CONNECTOR2 PCB

SIDE B

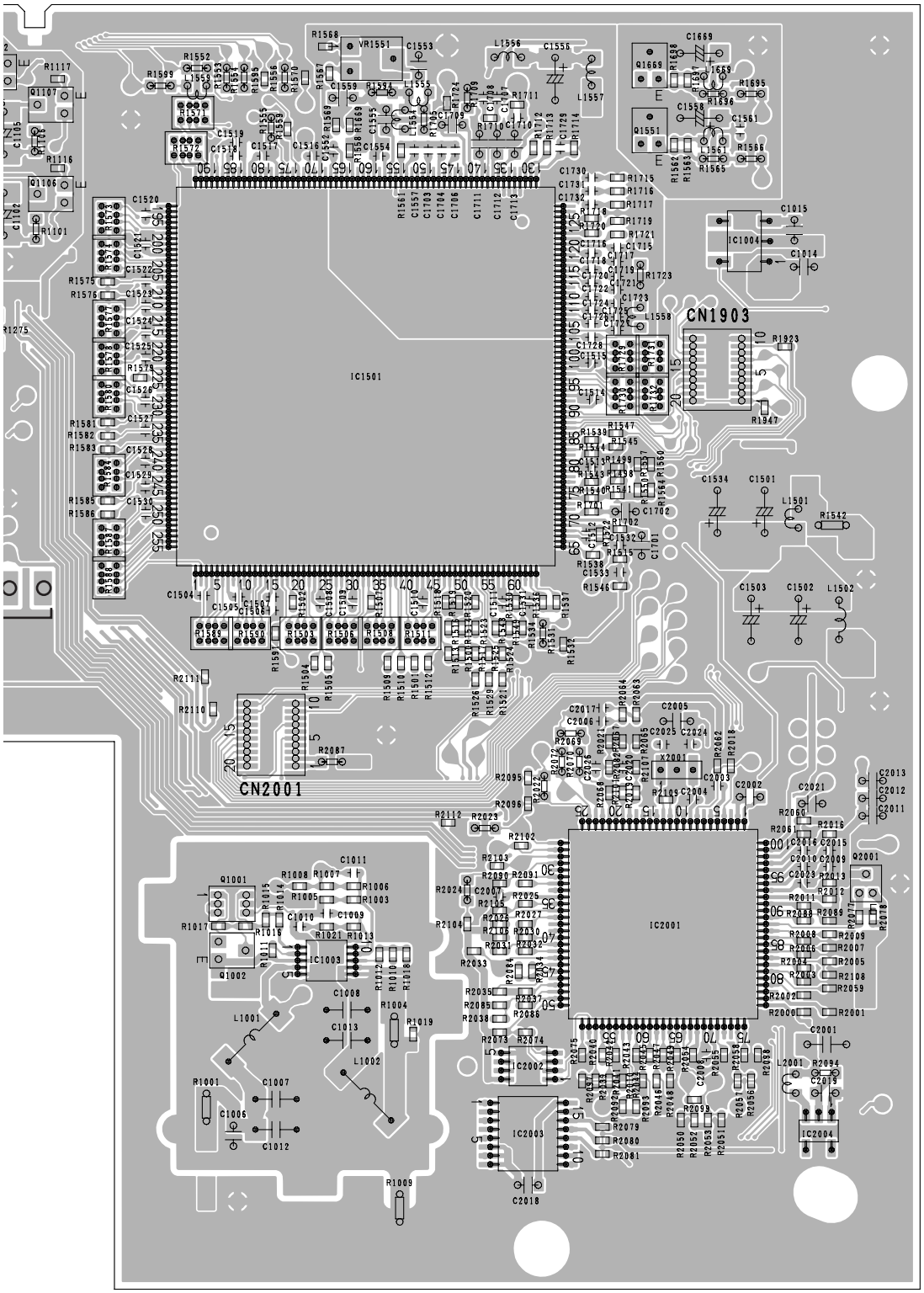


D

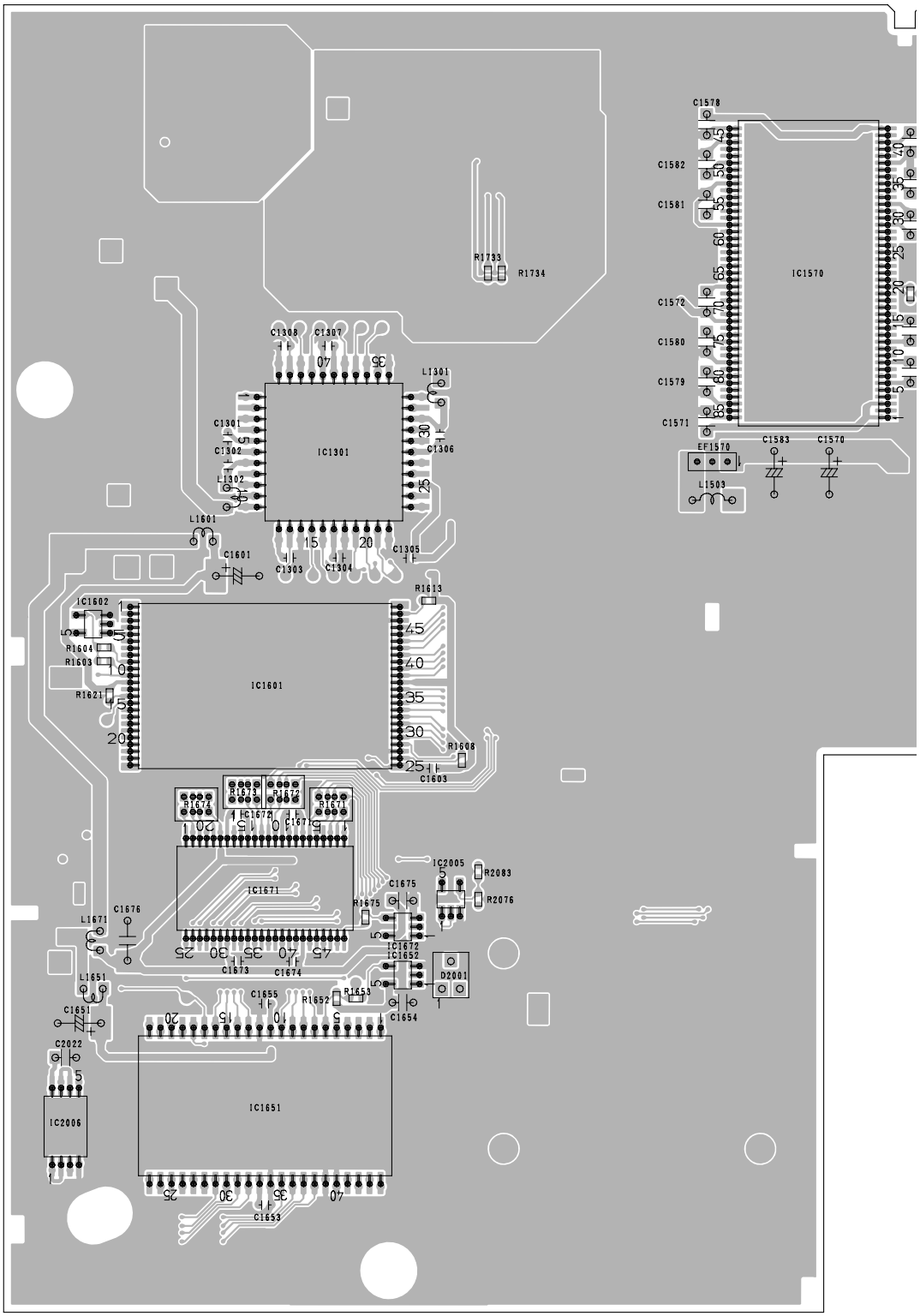
4.5 DVD CORE UNIT



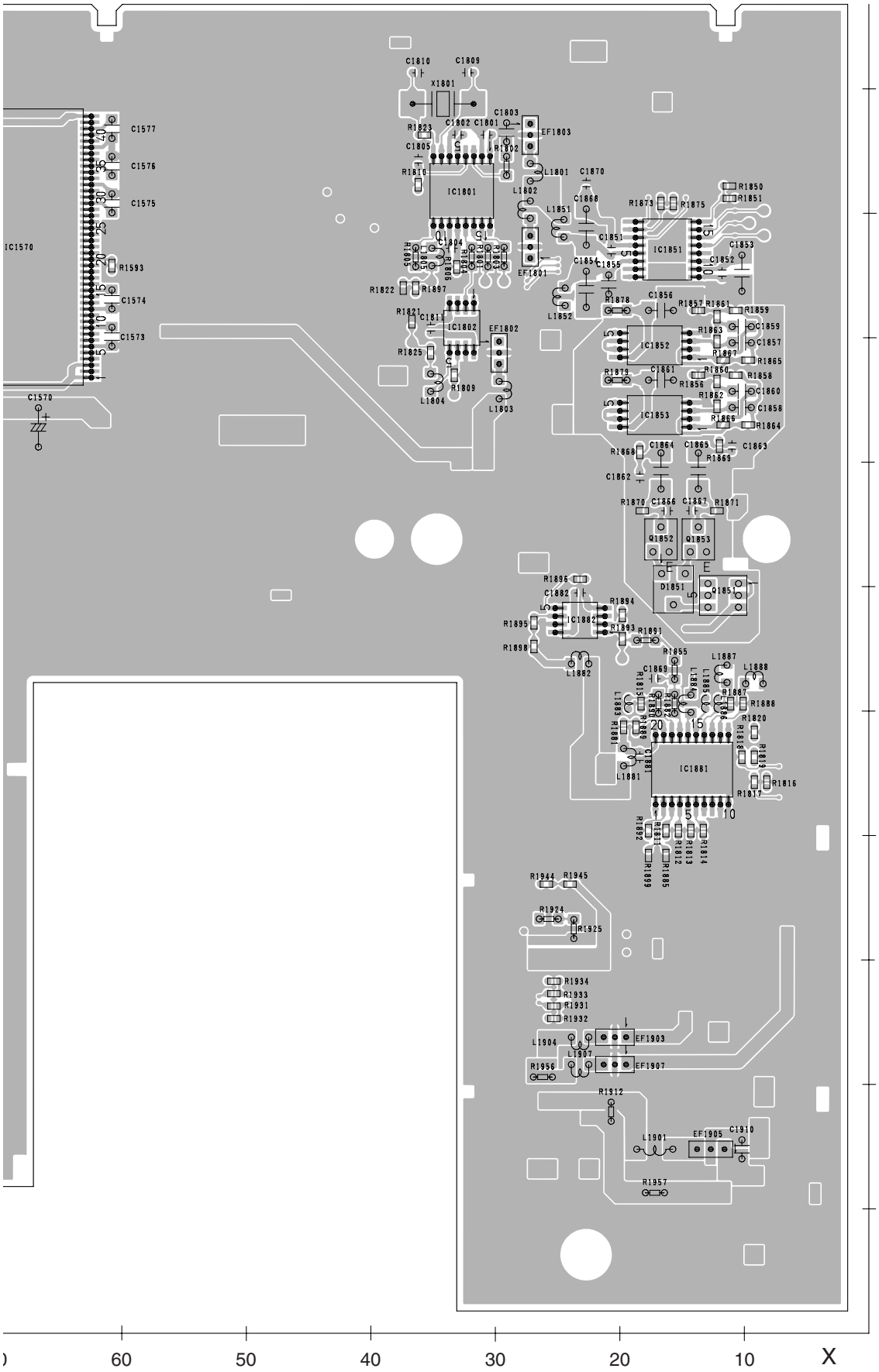
SIDE A


IC1501
CN1903
CN2001
IC2001
IC1004
IC1003
IC2002
IC2003
IC2004
Q1669
Q1551
Q1001
Q1002
X2001
L1556
L1557
L1558
L1501
L1502
L1001
L1002
VR1551

E DVD CORE UNIT

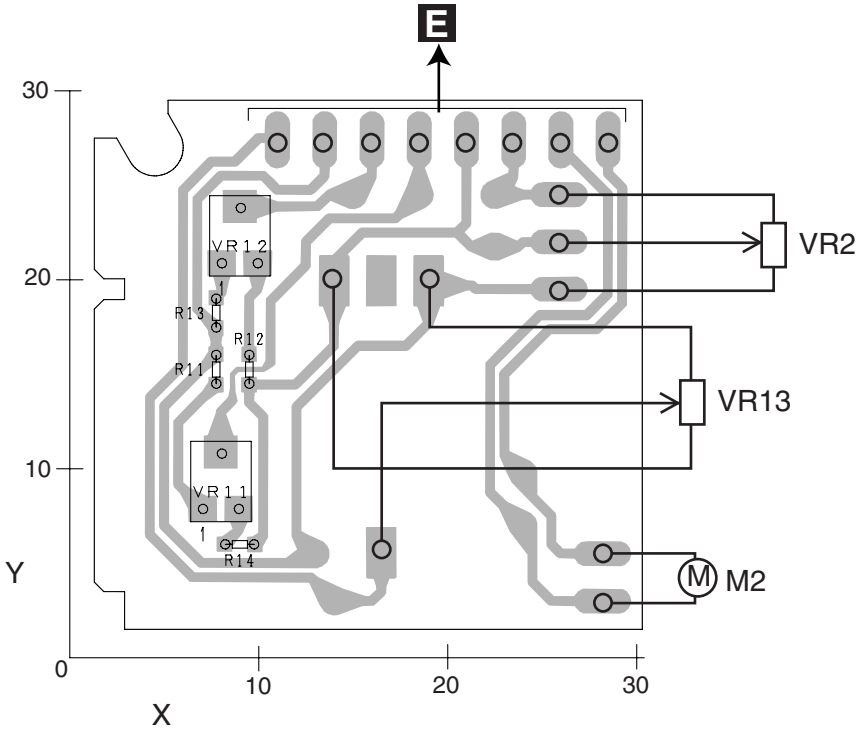


SIDE B


C1810
C1809
X1801
C1803
C1802
C1801
EF1803
R1823
C1805
R1802
R1810
IC1801
L1801
L1802
C1870
C1868
L1851
R1850
R1851
R1873
R1875
IC1851
C1851
C1853
C1852
C1854
C1855
EF1801
R1822
R1897
C1856
R1878
L1852
R1857
R1861
R1859
C1859
C1857
R1865
R1863
R1867
IC1852
R1879
C1861
R1856
R1850
R1858
C1860
R1862
C1858
IC1853
R1866
R1864
C1864
C1865
C1863
R1868
R1869
C1862
R1870
C1866
C1867
R1871
Q1852
Q1853
D1851
C1851
R1896
C1882
R1894
IC1882
R1895
R1893
R1891
R1898
L1882
R1855
C1869
L1887
L1888
L1886
L1885
C1867
R1888
L1883
R1820
R1881
IC1881
L1881
R1819
R1816
R1817
R1892
R1831
R1812
R1813
R1814
R1899
R1885
R1944
R1945
R1924
R1925
R1934
R1933
R1931
R1932
EF1903
L1904
L1907
EF1907
R1956
R1912
L1901
EF1905
C1910
R1957
C1577
C1576
C1575
IC1570
R1593
C1574
C1573
C1570
100
90
80
70
60
50
40
30
20
10
0
Y
60
50
40
30
20
10
X

4.6 PCB ASSY

F PCB ASSY

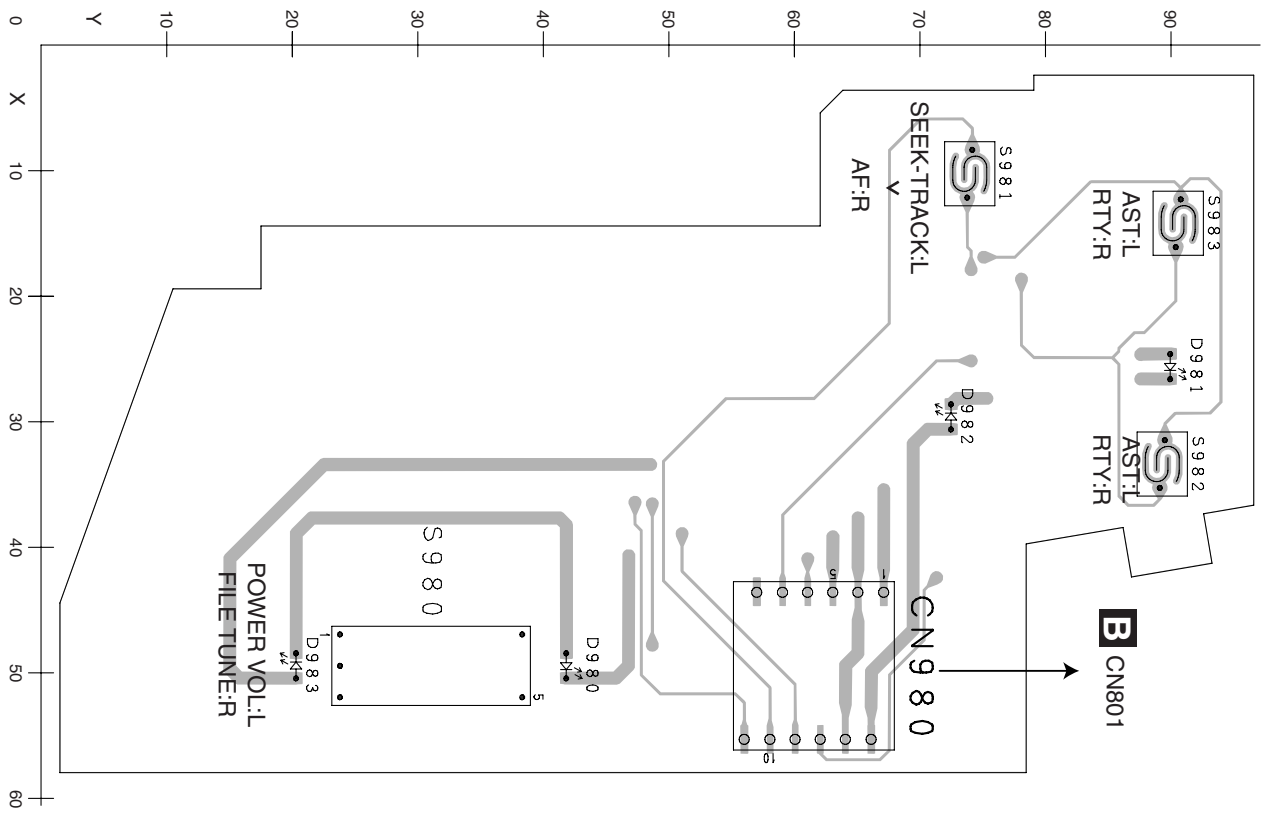


F

4.7 L PCB

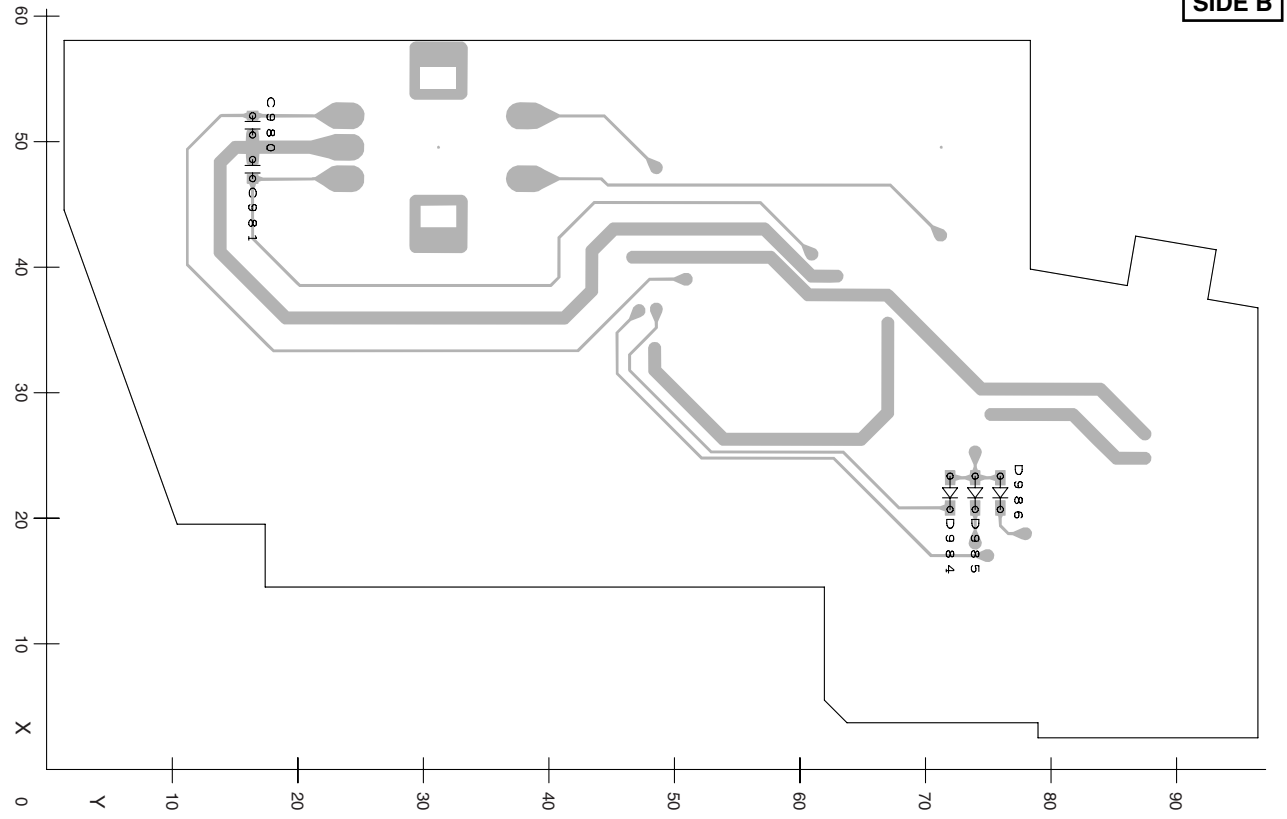
G L PCB

SIDE A



G L PCB

SIDE B

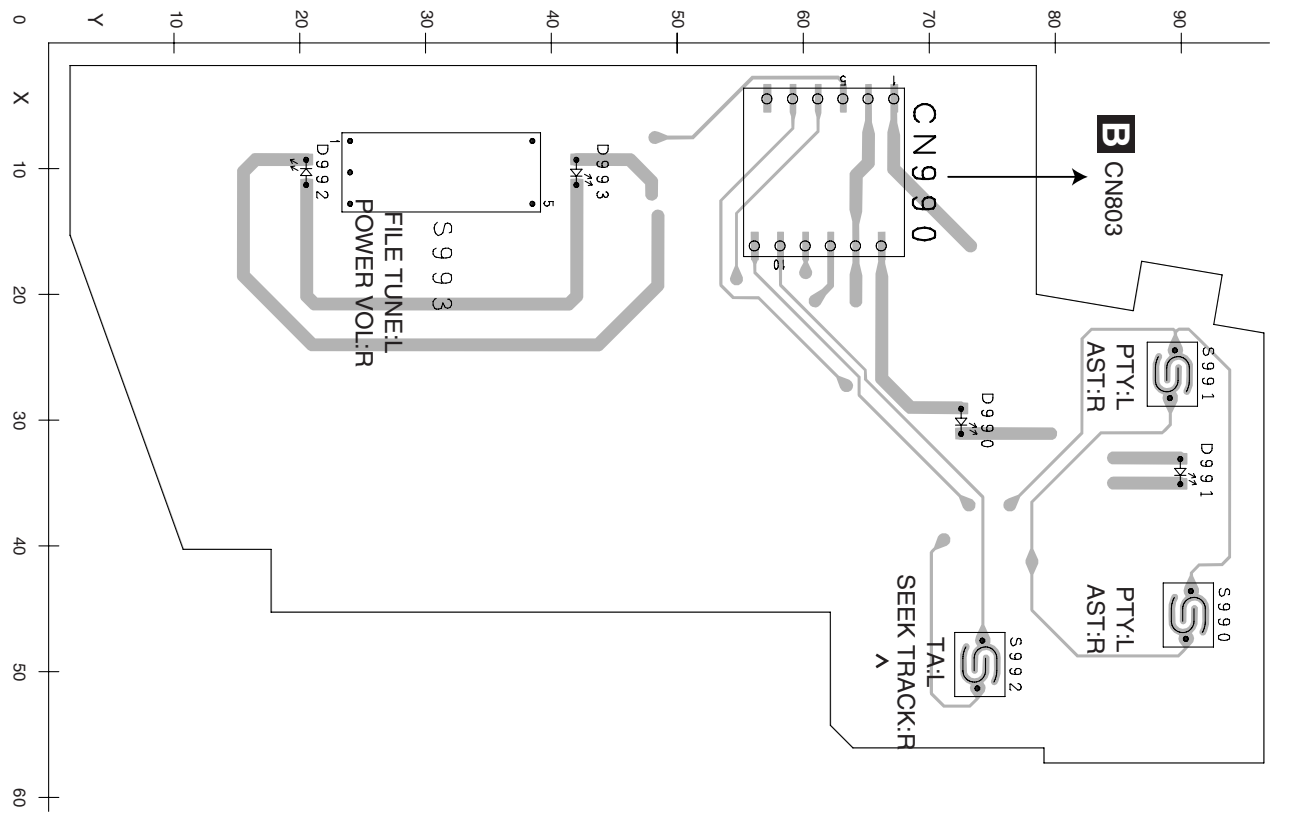


G

4.8 R PCB

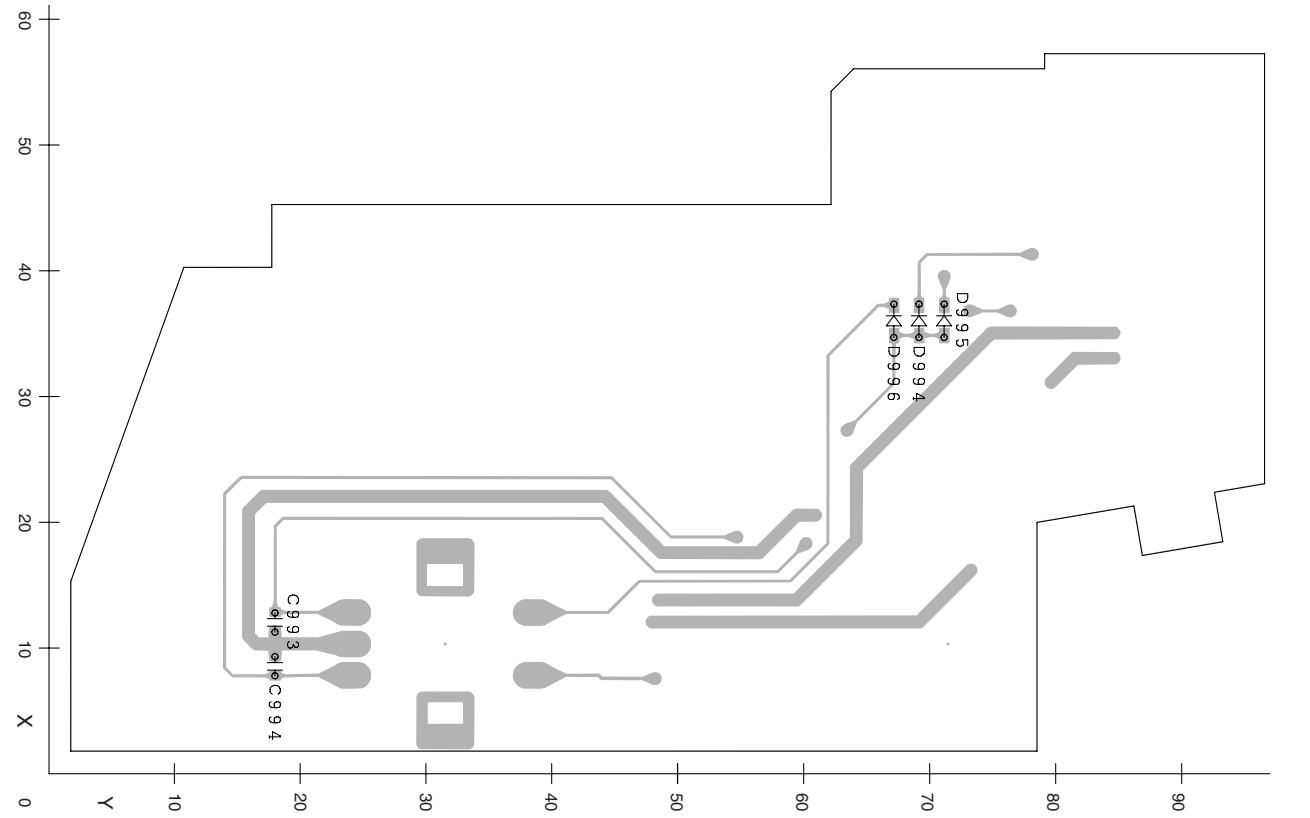
H R PCB

SIDE A



H R PCB

SIDE B

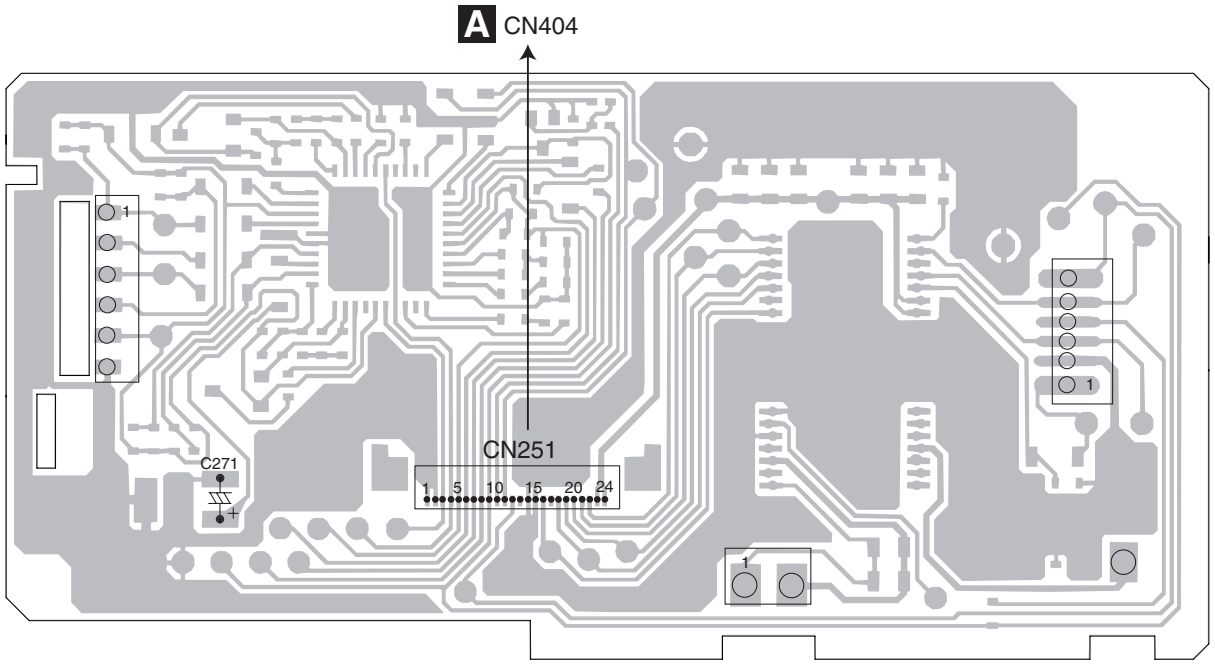


H

4.9 DECK UNIT

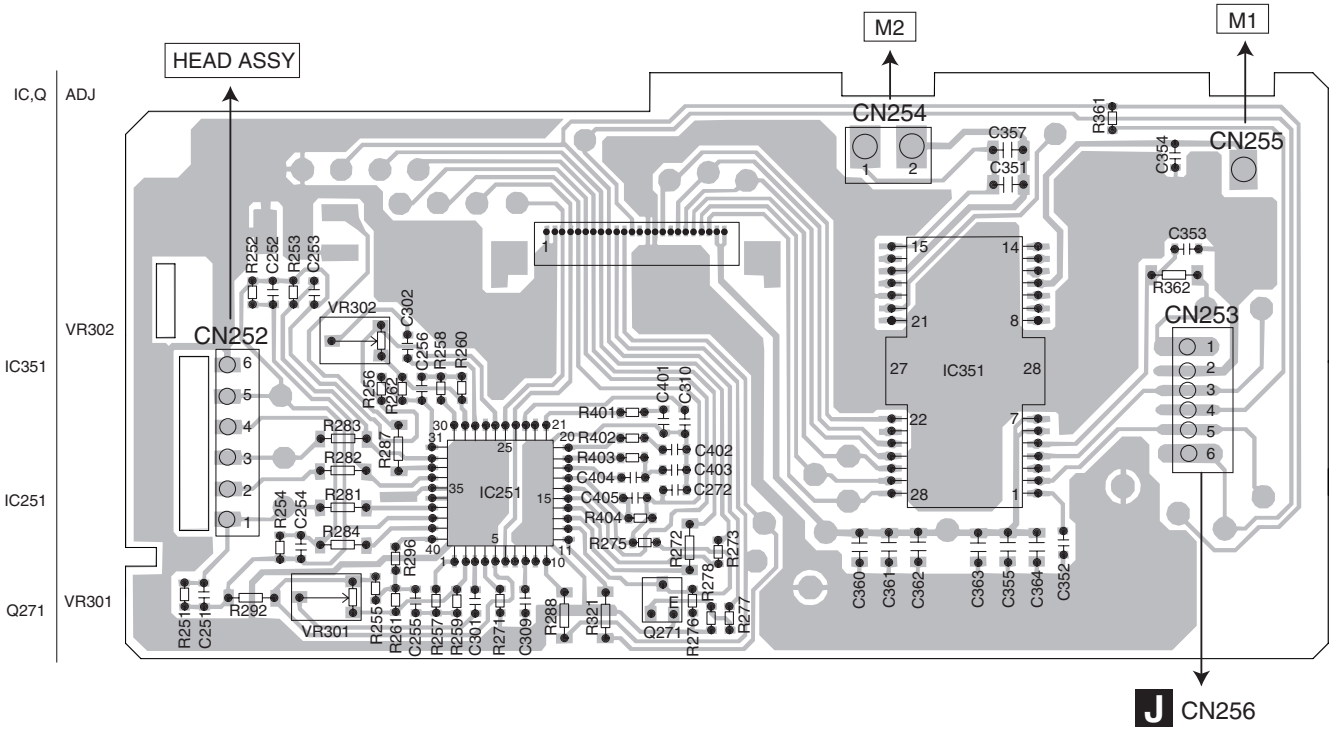
I DECK UNIT

SIDE A



SIDE B

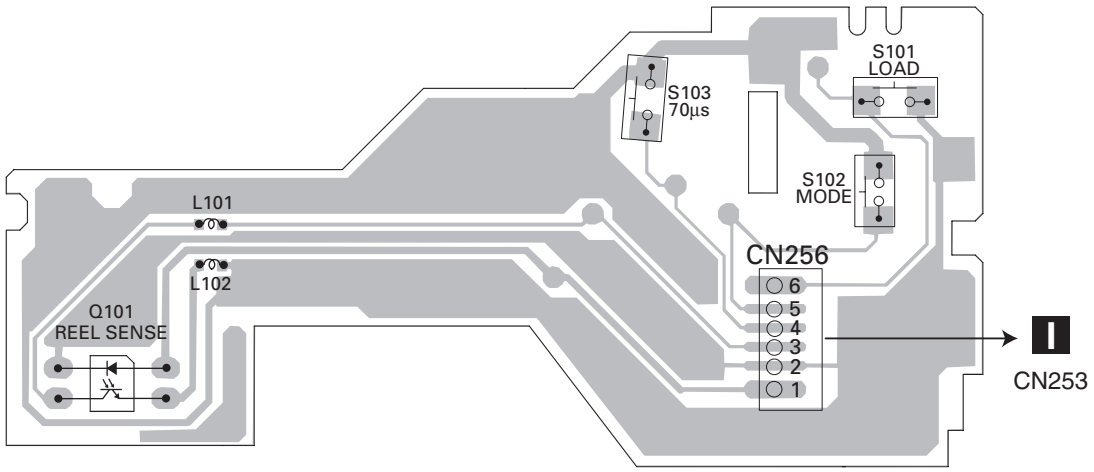
I DECK UNIT



4.10 SENSOR UNIT

A

J SENSOR UNIT



B

C

D

E

F

J

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.**

Unit Number : CWN1110
Unit Name : Main Unit
Unit Number : CWM9654
Unit Name : Connector Unit
Unit Number :
Unit Name : Keyboard Unit
Unit Number : CWX3050
Unit Name : DVD Core Unit
Unit Number : CWX2986
Unit Name : PCB Assy
Unit Number : EWM1055
Unit Name : Deck Unit
Unit Number : EWM1057
Unit Name : Sensor Unit

A

Unit Number : CWN1110
Unit Name : Main Unit

MISCELLANEOUS

IC 102	(A,130,103) IC	NJM2068V
IC 201	(A,96,100) IC	NJM2068V
IC 202	(A,105,94) IC	NJM2068V
IC 203	(A,104,99) IC	NJM4580V
IC 204	(A,97,94) IC	NJM2068V
IC 205	(A,88,97) IC	NJM2068V
IC 207	(A,103,85) IC	BD3842FS
IC 208	(B,88,74) IC	OPA2134UA
IC 209	(B,94,74) IC	OPA2134UA
IC 210	(B,103,73) IC	NJM2068V
IC 211	(B,103,77) IC	NJM2068V
IC 301	(B,97,28) IC	HA12240FP
IC 401	(B,23,38) IC	TC7SET08FUS1
IC 502	(A,96,33) IC	PEG164A
IC 503	(A,118,24) IC	TC7SET08FUS1
IC 504	(A,119,33) IC	TC74VHC08FTS1
IC 601	(A,42,75) IC	TPS54350PWP

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

IC 603	(B,36,77) IC	BA00BC0WFP
IC 604	(A,52,75) IC	TPS54350PWP
IC 751	(B,26,89) IC	S-80940CNNB-G9A
IC 752	(B,22,96) IC	S-812C56AUA-C3K
IC 753	(B,22,104) IC	S-812C39AMC-C2T
IC 801	(B,50,98) IC	NJM2235V
IC 802	(B,40,99) IC	SM5304AV
IC 803	(B,50,93) IC	NJM2235V
IC 804	(B,40,92) IC	SM5304AV
Q 11	(A,137,67) Transistor	2SC3356
Q 12	(A,128,67) Transistor	2SC3356
Q 13	(B,140,63) Transistor	2SA1576
Q 14	(B,140,57) Transistor	2SC4081
Q 15	(B,129,58) Transistor	2SC4083
Q 16	(B,124,58) Transistor	2SC4083
Q 17	(A,137,84) Transistor	2SC3356
Q 18	(A,128,84) Transistor	2SC3356
Q 19	(B,140,80) Transistor	2SA1576
Q 20	(B,140,74) Transistor	2SC4081
Q 21	(B,129,74) Transistor	2SC4083
Q 22	(B,124,74) Transistor	2SC4083
Q 23	(B,161,113) Transistor	2SC4081
Q 102	(B,144,84) Transistor	2SC4081
Q 103	(B,150,82) Transistor	UMX1N
Q 104	(B,147,82) Transistor	UMH4N
Q 105	(B,154,47) Transistor	2SA1576
Q 106	(B,157,29) Transistor	2SA1576
Q 107	(B,157,26) Transistor	2SA1576
Q 108	(A,150,62) Transistor	DTC114EU
Q 109	(B,172,51) Transistor	UMH1N
Q 110	(B,172,47) Transistor	UMH1N
Q 114	(A,147,116) Transistor	2SC4081
Q 115	(B,148,112) Transistor	UMX1N
Q 116	(A,130,96) Transistor	2SC4081
Q 117	(A,128,96) Transistor	2SC4081
Q 119	(A,128,107) Transistor	2SA1576
Q 123	(B,130,123) Transistor	DTC114EU
Q 125	(B,105,124) Transistor	UMH1N
Q 126	(B,96,124) Transistor	UMH1N
Q 201	(B,96,91) Transistor	UMH4N
Q 301	(A,92,54) Transistor	2SC4081

Circuit Symbol and No.		Part No.
Q 302	(B,87,57) Transistor	2SC4081
Q 303	(A,85,58) Transistor	2SC4081
Q 308	(A,101,59) Transistor	2SC4081
Q 309	(A,98,52) Transistor	2SC4081
Q 310	(A,108,53) Transistor	UMT2N
Q 311	(A,106,58) Transistor	DTC144EU
Q 312	(A,95,52) Transistor	DTA114EU
Q 313	(A,97,56) Transistor	2SC4081
Q 314	(A,77,22) Transistor	DTA114EU
Q 315	(B,85,63) Transistor	2SC4081
Q 381	(A,102,69) Transistor	UMZ1N
Q 382	(A,105,66) Transistor	UMZ1N
Q 383	(B,83,74) Transistor	FMG12
Q 384	(B,91,90) Transistor	FMG12
Q 385	(B,83,78) Transistor	FMG12
Q 386	(B,83,71) Transistor	FMG12
Q 387	(B,83,81) Transistor	FMG12
Q 388	(A,42,107) Transistor	FMG12
Q 389	(B,88,90) Transistor	FMG12
Q 390	(A,25,110) Transistor	FMG12
Q 401	(A,27,38) Transistor	UMH4N
Q 402	(A,22,38) Transistor	DTA144TK
Q 601	(A,71,88) Transistor	2SC4081
Q 602	(B,47,79) Transistor	DTC114EU
Q 603	(A,69,81) Transistor	2SA1952
Q 604	(B,68,88) Transistor	2SA1576
Q 605	(A,54,86) Transistor	DTC114EU
Q 606	(A,60,86) Transistor	2SA1576
Q 607	(B,58,56) Transistor	2SB1689
Q 608	(B,58,52) Transistor	2SC4081
Q 609	(A,30,84) Transistor	2SC4081
Q 610	(A,57,87) Transistor	UMD12N
Q 611	(B,44,79) Transistor	DTC114EU
Q 612	(A,42,67) POWER MOS FET	RSS090N03
Q 613	(A,52,67) POWER MOS FET	RSS090N03
Q 614	(A,21,72) Transistor	2SB1427
Q 615	(B,67,61) Transistor	2SC4081
Q 616	(B,70,76) Transistor	2SA1952
Q 617	(B,64,50) Transistor	2SA1576
Q 618	(B,64,45) Transistor	DTC114EU
Q 701	(A,24,93) Transistor	2SB1184F5
Q 702	(B,33,94) Transistor	UMX1N
Q 703	(B,65,140) Transistor	2SB1260
Q 704	(B,59,140) Transistor	UMX1N
Q 705	(B,75,138) Transistor	DTC114EU
Q 706	(B,69,139) Transistor	UMT2N
Q 707	(A,155,18) Transistor	2SB1260
Q 708	(A,158,21) Transistor	2SC4081
Q 709	(B,157,18) Transistor	2SB1184F5
Q 710	(A,162,16) Transistor	UMX1N
Q 711	(A,140,49) Transistor	2SB1260
Q 712	(A,135,49) Transistor	UMX1N
Q 713	(B,27,22) Transistor	2SB1260
Q 714	(B,35,22) Transistor	UMX1N
Q 751	(B,25,96) Transistor	UMD12N
Q 752	(B,15,96) Transistor	2SC4081
Q 753	(B,15,88) Transistor	2SC4154-11
Q 754	(B,15,91) Transistor	2SA1602A
Q 755	(A,9,92) Transistor	2SB1185
Q 756	(B,20,83) Transistor	UMF5N

Circuit Symbol and No.		Part No.
Q 762	(A,23,104) Transistor	2SD1767
Q 801	(A,52,99) Transistor	DTC144EU
D 11	(B,137,67) Diode	1SV249
D 12	(A,142,59) Diode	1SS355
D 13	(B,133,58) Diode	DAN217U
D 14	(B,133,75) Diode	DAN217U
D 15	(B,137,84) Diode	1SV249
D 16	(A,142,76) Diode	1SS355
D 101	(A,150,82) Diode	CPH5512
D 102	(B,149,70) Diode	CPH5512
D 104	(B,146,115) Diode	CPH5512
D 105	(B,150,123) Diode	CPH5512
D 301	(A,69,104) Diode	RM4LFJ10
D 302	(B,22,117) Diode	UDZS10(B)
D 303	(B,24,117) Diode	UDZS10(B)
D 304	(A,91,59) Diode	HZU8R2(B1)
D 305	(B,84,57) Diode	HZU8R2(B1)
D 306	(A,87,58) Diode	HZU8R2(B1)
D 307	(B,52,115) Diode	UDZS18(B)
D 308	(A,41,115) Diode	UDZS18(B)
D 311	(B,60,116) Diode	UDZS18(B)
D 312	(B,25,139) Diode	UDZS18(B)
D 313	(A,109,55) Diode	1SS355
D 314	(A,105,55) Diode	HZU9R1(B1)
D 315	(A,78,17) Diode	1SS355
D 316	(A,80,17) Diode	UDZS8R2(B)
D 317	(A,81,49) Diode	1SS355
D 318	(A,81,52) Diode	1SS355
D 319	(A,78,25) Diode	1SS355
D 320	(A,77,28) Diode	1SS355
D 322	(A,85,54) Diode	1SS355
D 323	(A,100,55) Diode	DAP202U
D 324	(A,101,52) Diode	1SS355
D 325	(A,103,53) Diode	1SS355
D 326	(B,20,86) Diode	1SS355
D 381	(A,95,62) Diode	DAP202U
D 382	(A,101,62) Diode	1SS355
D 383	(A,105,62) Diode	1SS355
D 384	(B,103,65) Diode	1SS355
D 401	(B,92,65) Diode	UDZS4R7(B)
D 402	(B,9,39) Diode	RB520S-30
D 601	(A,69,74) Diode	RSX201L-30
D 602	(B,68,83) Diode	PTZ16(A)
D 603	(A,32,81) Diode	1SS355
D 604	(B,67,56) Diode	PTZ16(A)
D 605	(B,60,54) Diode	1SS355
D 606	(A,45,85) Diode	1SR154-400
D 701	(B,133,135) Diode	RB051L-40
D 702	(B,29,98) Diode	HZU8R2(B1)
D 703	(B,33,98) Diode	1SS355
D 704	(B,64,134) Diode	RR264M-400
D 705	(B,64,136) Diode	RR264M-400
D 706	(B,75,141) Diode	DAN202U
D 707	(B,75,143) Diode	1SS355
D 708	(B,69,134) Diode	RR264M-400
D 709	(B,69,136) Diode	RR264M-400
D 710	(A,155,15) Diode	1SS355
D 711	(A,163,18) Diode	1SS355
D 713	(B,31,24) Diode	1SS355
D 751	(B,126,135) Diode	1SR154-400

Circuit Symbol and No.		Part No.
D 752	(B,20,87) Diode	UDZS16(B)
D 753	(B,19,91) Diode	UDZS9R1(B)
D 755	(B,21,92) Diode	UDZS16(B)
ZNR11	(B,161,103) Surge Protector	IMSA-6801-01Y901
ZNR12	(B,162,107) Surge Protector	IMSA-6801-01Y901
L 11	(B,160,106) Inductor	LCYB68NJ1608
L 12	(A,160,101) Inductor	LCYB12NJ1608
L 13	(A,142,66) Inductor	LCYBR12J1608
L 14	(A,141,66) Inductor	LCYBR12J1608
L 15	(A,136,62) Coil	CTC1187
L 16	(A,133,68) Inductor	LCYBR15J1608
L 17	(A,126,62) Coil	CTC1187
L 18	(A,123,69) Inductor	LCYBR15J1608
L 19	(B,160,109) Inductor	LCYB68NJ1608
L 20	(A,159,108) Inductor	LCYB12NJ1608
L 21	(A,142,83) Inductor	LCYBR12J1608
L 22	(A,141,83) Inductor	LCYBR12J1608
L 23	(A,136,78) Coil	CTC1187
L 24	(A,133,85) Inductor	LCYBR15J1608
L 25	(A,126,78) Coil	CTC1187
L 26	(A,123,85) Inductor	LCYBR15J1608
L 101	(B,147,74) Inductor	LCTC6R8K1608
L 102	(B,149,74) Inductor	LCTC6R8K1608
L 103	(B,156,86) Inductor	LCTC6R8K1608
L 104	(A,147,64) Inductor	CTF1473
L 105	(A,149,52) Inductor	CTF1295
L 106	(A,148,57) Inductor	CTF1473
L 107	(A,149,57) Inductor	CTF1473
L 108	(A,159,104) Chip Coil	LCTAW330J2520
L 110	(A,150,116) Inductor	CTF1473
L 111	(B,142,115) Inductor	LCTC6R8K1608
L 112	(B,142,113) Inductor	LCTC6R8K1608
L 113	(A,95,116) Inductor	CTF1295
L 114	(B,128,121) Inductor	CTF1473
L 115	(B,122,124) Inductor	CTF1473
L 116	(B,145,124) Inductor	LCTC6R8K1608
L 201	(A,104,71) Inductor	CTF1473
L 301	(A,119,141) Choke Coil 95µH	CTH1301
L 302	(B,91,27) Inductor	CTF1473
L 401	(A,31,67) Inductor	CTF1616
L 413	(A,19,30) Inductor	CTF1558
L 414	(B,24,40) Inductor	CTF1473
L 416	(A,20,43) Inductor	CTF1473
L 417	(A,20,45) Inductor	CTF1473
L 418	(B,11,44) Inductor	CTF1306
L 420	(B,26,41) Inductor	CTF1473
L 501	(B,101,41) Inductor	CTF1473
L 502	(A,122,27) Inductor	CTF1473
L 503	(A,123,33) Inductor	CTF1473
L 601	(A,66,67) Inductor	CTH1257
L 602	(A,43,59) Inductor	CTH1257
L 603	(A,54,59) Inductor	CTH1257
L 605	(A,48,11) Inductor	CTF1295
L 701	(A,114,56) Inductor	CTF1473
L 702	(A,137,10) Inductor	CTF1295
L 801	(A,53,89) Inductor	CTF1473
X 501	(A,96,20) Radiator 10.0MHz	CSS1577
⚠FU301	(B,53,140) Fuse 8A	CEK1263
EF601	(B,44,54) EMI Filter	CCG1163
EF602	(B,54,54) EMI Filter	CCG1163

RESISTORS

Circuit Symbol and No.		Part No.
R 1	(A,134,26)	RS1/16SS0R0J
R 2	(A,129,23)	RS1/16SS0R0J
R 3	(B,138,63)	RS1/16SS474J
R 4	(B,139,55)	RS1/16SS474J
R 5	(B,138,79)	RS1/16SS474J
R 6	(B,137,76)	RS1/16SS474J
R 7	(B,132,57)	RS1/16SS681J
R 8	(B,132,73)	RS1/16SS681J
R 9	(A,11,51)	RS1/16SS332J
R 10	(A,13,51)	RS1/16SS822J
R 11	(B,139,65)	RS1/16SS102J
R 12	(A,141,62)	RS1/16SS331J
R 13	(A,138,69)	RS1/16SS100J
R 14	(A,134,66)	RS1/16SS222J
R 15	(A,138,58)	RS1/16SS121J
R 16	(A,135,69)	RS1/16SS330J
R 17	(A,134,58)	RS1/16SS100J
R 18	(A,134,68)	RS1/16SS100J
R 19	(A,129,69)	RS1/16SS100J
R 20	(A,125,67)	RS1/16SS222J
R 21	(A,128,58)	RS1/16SS121J
R 22	(A,126,69)	RS1/16SS330J
R 23	(A,125,58)	RS1/16SS100J
R 24	(A,125,68)	RS1/16SS100J
R 25	(B,138,59)	RS1/16SS271J
R 26	(B,141,59)	RS1/16SS472J
R 27	(B,136,59)	RS1/16SS223J
R 28	(B,139,60)	RS1/16SS220J
R 29	(B,127,57)	RS1/16SS271J
R 30	(B,127,59)	RS1/16SS561J
R 31	(B,127,60)	RS1/16SS333J
R 32	(B,125,61)	RS1/16SS683J
R 33	(B,125,60)	RS1/16SS471J
R 34	(B,139,82)	RS1/16SS102J
R 35	(A,141,79)	RS1/16SS331J
R 36	(A,138,86)	RS1/16SS100J
R 37	(A,134,82)	RS1/16SS222J
R 38	(A,138,75)	RS1/16SS121J
R 39	(A,136,85)	RS1/16SS330J
R 40	(A,134,75)	RS1/16SS100J
R 41	(A,134,85)	RS1/16SS100J
R 42	(A,129,86)	RS1/16SS100J
R 43	(A,125,82)	RS1/16SS222J
R 44	(A,128,75)	RS1/16SS121J
R 45	(A,126,85)	RS1/16SS330J
R 46	(A,125,75)	RS1/16SS100J
R 47	(A,125,85)	RS1/16SS100J
R 48	(B,138,76)	RS1/16SS271J
R 49	(B,141,76)	RS1/16SS472J
R 50	(B,136,75)	RS1/16SS223J
R 51	(B,139,77)	RS1/16SS220J
R 52	(B,127,74)	RS1/16SS271J
R 53	(B,127,75)	RS1/16SS561J
R 54	(B,127,77)	RS1/16SS333J
R 55	(B,125,78)	RS1/16SS683J
R 56	(B,125,77)	RS1/16SS471J
R 57	(B,163,115)	RS1/16SS223J

Circuit Symbol and No.		Part No.
R 58	(B,163,114)	RS1/16SS472J
R 60	(B,129,36)	RS1/16SS0R0J
R 67	(B,131,28)	RS1/16SS0R0J
R 102	(B,149,84)	RS1/16SS222J
R 103	(B,147,85)	RS1/16SS222J
R 104	(A,149,79)	RS1/16SS104J
R 105	(A,148,78)	RS1/16SS225J
R 106	(A,151,77)	RS1/16SS225J
R 107	(B,146,70)	RS1/16SS225J
R 108	(B,151,70)	RS1/16SS225J
R 109	(A,151,79)	RS1/16SS104J
R 110	(B,149,80)	RS1/16SS102J
R 111	(B,152,77)	RS1/10S821J
R 114	(A,150,39)	RS1/16SS471J
R 115	(B,152,47)	RS1/16SS272J
R 116	(B,153,30)	RS1/16SS272J
R 118	(B,138,27)	RS1/16SS272J
R 120	(A,147,60)	RS1/16SS103J
R 122	(A,153,62)	RS1/16SS681J
R 123	(B,169,73)	RS1/16SS681J
R 124	(B,169,71)	RS1/16SS681J
R 125	(B,169,69)	RS1/16SS681J
R 126	(B,169,67)	RS1/16SS681J
R 127	(B,169,65)	RS1/16SS681J
R 128	(B,155,51)	RS1/16SS222J
R 129	(B,174,52)	RS1/16SS223J
R 130	(B,170,51)	RS1/16SS223J
R 131	(B,174,47)	RS1/16SS223J
R 132	(B,170,46)	RS1/16SS223J
R 135	(B,145,112)	RS1/16SS222J
R 136	(A,145,113)	RS1/16SS222J
R 137	(B,149,116)	RS1/16SS104J
R 141	(A,136,118)	RS1/16SS471J
R 145	(B,149,114)	RS1/16SS104J
R 146	(B,151,112)	RS1/16SS472J
R 147	(B,151,115)	RS1/10S102J
R 148	(A,126,117)	RS1/16SS272J
R 153	(B,127,123)	RS1/16SS103J
R 155	(B,132,123)	RS1/16SS681J
R 156	(B,141,124)	RS1/16SS681J
R 157	(B,138,124)	RS1/16SS681J
R 158	(B,136,123)	RS1/16SS681J
R 159	(B,134,125)	RS1/16SS681J
R 160	(B,135,119)	RS1/16SS681J
R 161	(B,116,124)	RS1/16SS222J
R 165	(B,161,115)	RS1/16SS473J
R 167	(B,108,123)	RS1/16SS223J
R 169	(B,108,122)	RS1/16SS223J
R 170	(B,100,125)	RS1/16SS223J
R 171	(B,100,123)	RS1/16SS223J
R 176	(A,126,104)	RS1/16SS683J
R 177	(A,130,100)	RS1/16SS682J
R 178	(A,133,95)	RS1/16SS223J
R 179	(A,124,108)	RS1/16SS101J
R 180	(A,126,102)	RS1/16SS223J
R 181	(A,132,97)	RS1/16SS472J
R 183	(A,126,99)	RS1/16SS223J
R 184	(A,131,100)	RS1/16SS682J
R 185	(A,130,105)	RS1/16SS101J
R 186	(A,133,106)	RS1/16SS683J
R 187	(A,133,100)	RS1/16SS683J
R 188	(A,134,106)	RS1/16SS682J
R 189	(A,133,97)	RS1/16SS223J
R 190	(A,128,100)	RS1/16SS222J
R 201	(B,44,118)	RS1/10S103J
R 202	(B,40,116)	RS1/10S103J
R 203	(B,47,118)	RS1/10S103J
R 204	(B,49,116)	RS1/10S103J
R 205	(B,40,114)	RS1/16SS562J
R 206	(B,44,114)	RS1/16SS562J
R 207	(B,41,114)	RS1/16SS562J
R 208	(B,47,114)	RS1/16SS562J
R 209	(B,95,102)	RS1/16SS473J
R 210	(B,92,102)	RS1/16SS473J
R 211	(B,93,102)	RS1/16SS473J
R 212	(B,98,102)	RS1/16SS473J
R 213	(B,99,102)	RS1/16SS473J
R 214	(B,96,102)	RS1/16SS473J
R 215	(B,93,99)	RS1/16SS473J
R 216	(B,99,100)	RS1/16SS473J
R 217	(B,106,92)	RS1/16SS153J
R 218	(B,103,92)	RS1/16SS153J
R 219	(B,108,94)	RS1/16SS223J
R 220	(B,102,94)	RS1/16SS223J
R 221	(B,104,97)	RS1/16SS333J
R 222	(B,102,98)	RS1/16SS333J
R 223	(A,108,97)	RS1/16SS223J
R 224	(B,101,100)	RS1/16SS223J
R 225	(B,97,96)	RS1/16SS223J
R 226	(B,94,96)	RS1/16SS223J
R 227	(B,97,94)	RS1/16SS223J
R 228	(B,93,95)	RS1/16SS223J
R 230	(B,88,99)	RS1/16SS223J
R 231	(B,86,99)	RS1/16SS333J
R 232	(B,90,96)	RS1/16SS333J
R 233	(B,90,98)	RS1/16SS223J
R 236	(B,86,94)	RS1/16SS223J
R 237	(B,85,95)	RS1/16SS333J
R 238	(B,88,96)	RS1/16SS333J
R 239	(B,90,94)	RS1/16SS223J
R 241	(B,94,92)	RS1/16SS182J
R 242	(B,97,89)	RS1/16SS182J
R 245	(B,85,98)	RS1/10S102J
R 246	(B,83,98)	RS1/10S102J
R 248	(A,88,77)	RS1/10S101J
R 249	(A,88,75)	RS1/10S101J
R 250	(A,88,80)	RS1/10S101J
R 251	(A,88,83)	RS1/10S101J
R 263	(A,107,79)	RS1/16SS471J
R 264	(A,106,79)	RS1/16SS471J
R 265	(B,89,80)	RS1/16SS153J
R 266	(B,90,69)	RS1/16SS153J
R 267	(B,91,80)	RS1/16SS153J
R 268	(B,92,69)	RS1/16SS153J
R 269	(B,94,80)	RS1/16SS153J
R 270	(B,95,69)	RS1/16SS153J
R 271	(A,91,75)	RS1/16SS223J
R 272	(A,92,80)	RS1/16SS223J
R 273	(A,91,78)	RS1/16SS223J
R 274	(A,91,83)	RS1/16SS223J
R 275	(A,90,79)	RS1/16SS101J

Circuit Symbol and No.		Part No.
R 276	(A,90,76)	RS1/16SS101J
R 277	(A,91,80)	RS1/16SS101J
R 278	(A,90,82)	RS1/16SS101J
R 279	(B,107,74)	RS1/16SS153J
R 280	(B,98,73)	RS1/16SS153J
R 281	(B,98,76)	RS1/16SS153J
R 282	(B,108,76)	RS1/16SS153J
R 283	(B,97,78)	RS1/16SS153J
R 284	(B,107,81)	RS1/16SS153J
R 285	(B,92,84)	RS1/16SS223J
R 286	(B,81,90)	RS1/16SS223J
R 287	(B,94,85)	RS1/16SS223J
R 288	(B,79,94)	RS1/16SS223J
R 289	(A,92,88)	RS1/10S101J
R 290	(A,90,88)	RS1/10S101J
R 291	(A,62,96)	RS1/10S101J
R 292	(A,62,98)	RS1/10S101J
R 293	(B,102,88)	RS1/16SS473J
R 294	(B,102,86)	RS1/16SS473J
R 301	(A,89,56)	RS1/16SS223J
R 302	(A,93,57)	RS1/16SS223J
R 303	(A,92,57)	RS1/16SS473J
R 304	(A,89,57)	RS1/16SS103J
R 305	(A,89,61)	RS1/16SS222J
R 306	(A,89,59)	RS1/16SS222J
R 307	(B,84,56)	RS1/16SS223J
R 308	(B,88,59)	RS1/16SS223J
R 309	(B,86,59)	RS1/16SS473J
R 310	(B,86,60)	RS1/16SS103J
R 311	(B,84,59)	RS1/16SS222J
R 312	(B,84,60)	RS1/16SS222J
R 313	(A,89,55)	RS1/16SS223J
R 314	(A,87,60)	RS1/16SS472J
R 315	(A,85,60)	RS1/16SS472J
R 316	(B,102,28)	RS1/16SS472J
R 317	(B,102,30)	RS1/16SS472J
R 318	(A,49,115)	RS1/4S101J
R 319	(A,45,120)	RS1PMF680J
R 320	(A,38,116)	RS1/4S101J
R 327	(A,102,55)	RS1/16SS472J
R 328	(A,102,56)	RS1/16SS103J
R 329	(B,57,115)	RS1/10S221J
R 331	(A,98,50)	RS1/16SS103J
R 332	(B,24,135)	RS1/10S221J
R 333	(A,108,56)	RS1/16SS473J
R 334	(A,111,51)	RS1/16SS473J
R 335	(A,109,51)	RS1/16SS103J
R 336	(A,105,51)	RS1/16SS103J
R 337	(A,105,52)	RS1/16SS103J
R 338	(A,96,50)	RS1/16SS473J
R 339	(A,99,58)	RS1/16SS471J
R 340	(A,99,59)	RS1/16SS392J
R 341	(B,30,139)	RS1/10S101J
R 342	(A,80,24)	RS1/16SS223J
R 343	(A,79,23)	RS1/16SS223J
R 344	(A,78,20)	RS1/16SS222J
R 345	(B,59,134)	RS1/10S472J
R 346	(B,61,134)	RS1/10S472J
R 347	(A,82,40)	RS1/16SS473J
R 348	(A,77,27)	RS1/16SS103J
R 349	(A,80,25)	RS1/16SS152J
R 350	(B,18,143)	RS1/10S102J
R 351	(B,23,141)	RS1/10S102J
R 352	(A,79,27)	RS1/16SS152J
R 353	(B,87,64)	RS1/16SS104J
R 354	(B,88,64)	RS1/16SS103J
R 356	(A,81,41)	RS1/16SS102J
R 381	(A,98,62)	RS1/16SS153J
R 382	(A,101,64)	RS1/16SS153J
R 383	(A,103,60)	RS1/16SS471J
R 384	(A,97,62)	RS1/16SS472J
R 385	(A,105,64)	RS1/16SS472J
R 386	(A,101,71)	RS1/16SS223J
R 387	(A,108,65)	RS1/16SS223J
R 389	(A,103,79)	RS1/16SS103J
R 391	(A,101,80)	RS1/16SS103J
R 392	(A,84,95)	RS1/10S101J
R 393	(A,80,95)	RS1/10S101J
R 394	(B,103,71)	RS1/16SS103J
R 395	(A,29,109)	RS1/10S101J
R 396	(A,33,109)	RS1/10S101J
R 397	(B,97,74)	RS1/16SS103J
R 400	(A,117,28)	RS1/16SS473J
R 401	(B,108,111)	RS1/16SS473J
R 403	(B,108,112)	RS1/16SS473J
R 405	(A,78,41)	RS1/16SS102J
R 407	(A,79,34)	RS1/16SS102J
R 409	(A,80,35)	RS1/16SS102J
R 411	(A,82,35)	RS1/16SS102J
R 413	(A,76,44)	RS1/16SS681J
R 415	(A,82,38)	RS1/16SS102J
R 419	(A,32,23)	RS1/16S0R0J
R 421	(B,24,51)	RS1/16S0R0J
R 423	(B,23,36)	RS1/16SS471J
R 424	(B,29,16)	RS1/16SS473J
R 426	(A,18,59)	RS1/16SS473J
R 427	(A,18,58)	RS1/16SS473J
R 428	(A,18,57)	RS1/16SS473J
R 431	(A,26,68)	RS1/16SS0R0J
R 433	(A,29,56)	RS1/16SS223J
R 436	(A,96,48)	RS1/16SS473J
R 441	(A,18,60)	RS1/16SS473J
R 442	(A,18,61)	RS1/16SS473J
R 447	(A,18,36)	RS1/16SS102J
R 448	(B,14,39)	RS1/16SS102J
R 450	(B,18,36)	RS1/16SS471J
R 451	(B,17,36)	RS1/16SS471J
R 452	(B,15,36)	RS1/16SS471J
R 458	(A,22,43)	RS1/16SS332J
R 459	(A,22,45)	RS1/16SS332J
R 460	(B,15,44)	RS1/16SS102J
R 461	(B,146,8)	RS1/16SS472J
R 462	(B,148,8)	RS1/16SS472J
R 463	(B,150,8)	RS1/16SS472J
R 464	(B,153,8)	RS1/16SS472J
R 465	(B,89,66)	RS1/16SS222J
R 466	(B,154,8)	RS1/16SS472J
R 467	(B,161,8)	RS1/16SS472J
R 471	(A,82,32)	RS1/16SS222J
R 472	(A,83,32)	RS1/16SS222J
R 473	(A,83,30)	RS1/16SS222J

Circuit Symbol and No.		Part No.
R 474	(A,87,22)	RS1/16SS222J
R 475	(A,87,20)	RS1/16SS222J
R 476	(A,89,22)	RS1/16SS222J
R 498	(B,99,44)	RS1/16SS473J
R 499	(A,112,40)	RS1/16SS102J
R 500	(A,81,22)	RS1/16SS223J
R 505	(A,81,28)	RS1/16SS102J
R 506	(A,81,26)	RS1/16SS102J
R 507	(A,82,23)	RS1/16SS473J
R 508	(A,84,17)	RS1/16SS102J
R 509	(A,84,19)	RS1/16SS102J
R 510	(A,83,22)	RS1/16SS473J
R 515	(A,91,50)	RS1/16SS102J
R 516	(A,92,49)	RS1/16SS102J
R 517	(A,93,49)	RS1/16SS102J
R 518	(A,94,49)	RS1/16SS102J
R 519	(A,95,49)	RS1/16SS102J
R 520	(A,93,45)	RS1/16SS471J
R 521	(A,89,19)	RS1/16SS102J
R 522	(A,89,17)	RS1/16SS152J
R 523	(A,90,20)	RS1/16SS102J
R 524	(A,90,17)	RS1/16SS102J
R 525	(A,91,20)	RS1/16SS102J
R 526	(B,92,15)	RS1/16SS473J
R 527	(A,94,43)	RS1/16SS471J
R 528	(B,96,43)	RS1/16SS105J
R 529	(A,98,43)	RS1/16SS103J
R 530	(A,100,48)	RS1/16SS103J
R 531	(A,99,43)	RS1/16SS471J
R 532	(A,101,48)	RS1/16SS471J
R 533	(A,96,43)	RS1/16SS102J
R 534	(A,92,20)	RS1/16SS102J
R 535	(A,92,17)	RS1/16SS102J
R 536	(A,93,17)	RS1/16SS102J
R 537	(A,95,22)	RS1/16SS0R0J
R 538	(A,99,18)	RS1/16SS473J
R 539	(A,100,17)	RS1/16SS471J
R 540	(A,101,17)	RS1/16SS102J
R 541	(A,102,19)	RS1/16SS471J
R 542	(B,103,28)	RS1/16SS102J
R 543	(A,100,43)	RS1/16SS102J
R 545	(A,102,44)	RS1/16SS102J
R 547	(A,104,45)	RS1/16SS473J
R 548	(A,105,45)	RS1/16SS102J
R 549	(A,105,47)	RS1/16SS102J
R 550	(A,106,45)	RS1/16SS102J
R 553	(A,102,17)	RS1/16SS102J
R 554	(A,103,17)	RS1/16SS102J
R 555	(A,103,19)	RS1/16SS102J
R 556	(A,105,17)	RS1/16SS102J
R 559	(A,107,18)	RS1/16SS102J
R 560	(A,107,21)	RS1/16S0R0J
R 564	(A,110,40)	RS1/16SS102J
R 565	(A,110,38)	RS1/16SS102J
R 566	(A,112,38)	RS1/16SS102J
R 567	(A,110,37)	RS1/16SS102J
R 569	(A,112,35)	RS1/16SS102J
R 570	(A,110,34)	RS1/16SS102J
R 571	(A,112,34)	RS1/16SS102J
R 572	(A,110,33)	RS1/16SS102J
R 573	(A,112,33)	RS1/16SS102J
R 575	(A,112,31)	RS1/16SS471J
R 576	(B,103,40)	RS1/16SS102J
R 577	(A,110,30)	RS1/16SS102J
R 578	(A,110,29)	RS1/16SS102J
R 579	(A,110,28)	RS1/16SS471J
R 580	(A,110,27)	RS1/16SS102J
R 581	(A,113,27)	RS1/16SS101J
R 582	(A,113,26)	RS1/16SS101J
R 583	(A,108,24)	RS1/16SS102J
R 584	(A,110,23)	RS1/16SS102J
R 585	(A,111,25)	RS1/16SS103J
R 587	(A,115,29)	RS1/16SS473J
R 588	(A,108,18)	RS1/16SS103J
R 589	(A,109,23)	RS1/16SS473J
R 590	(A,111,23)	RS1/16SS473J
R 591	(A,118,27)	RS1/16SS471J
R 592	(B,119,30)	RS1/16SS471J
R 593	(A,116,29)	RS1/16SS471J
R 594	(A,115,39)	RS1/16SS102J
R 598	(A,95,45)	RS1/16SS102J
R 600	(A,116,39)	RS1/16SS102J
R 601	(B,67,86)	RS1/16SS102J
R 602	(B,65,52)	RS1/16SS102J
R 603	(B,71,69)	RS1/16SS103J
R 604	(A,66,87)	RS1/16SS103J
R 605	(A,57,85)	RS1/16SS103J
R 606	(B,70,88)	RS1/16SS103J
R 607	(A,63,84)	RS1/16SS223J
R 608	(A,64,84)	RS1/16SS223J
R 609	(B,47,81)	RS1/16SS7503D
R 610	(A,61,89)	RS1/4SR22J
R 611	(B,46,81)	RS1/16SS1303D
R 612	(B,42,79)	RS1/16SS7503D
R 613	(B,42,78)	RS1/16SS1303D
R 614	(A,38,73)	RS1/16SS750J
R 615	(B,44,60)	RS1/16SS1001D
R 616	(B,42,60)	RS1/16SS1000D
R 617	(B,40,60)	RS1/16SS24R0D
R 618	(B,42,61)	RS1/16SS160J
R 619	(B,63,47)	RS1/16SS103J
R 620	(A,48,71)	RS1/16SS750J
R 621	(B,53,60)	RS1/16SS1001D
R 622	(B,54,60)	RS1/16SS1800D
R 623	(B,56,60)	RS1/16SS33R0D
R 624	(B,54,61)	RS1/16SS160J
R 625	(B,63,48)	RS1/16SS103J
R 627	(A,33,83)	RS1/16SS220J
R 628	(B,56,51)	RS1/16SS391J
R 629	(B,57,54)	RS1/16SS223J
R 631	(B,62,51)	RS1/16SS472J
R 632	(B,60,51)	RS1/16SS220J
R 633	(B,67,63)	RS1/8S0R0J
R 635	(A,69,87)	RS1/16SS221J
R 636	(B,65,58)	RS1/16SS221J
R 638	(B,41,84)	RS1/16SS1203D
R 639	(B,41,83)	RS1/16SS1502D
R 640	(B,41,82)	RS1/16SS6802D
R 641	(B,41,81)	RS1/16SS1202D
R 644	(A,22,76)	RS1/16SS223J

Circuit Symbol and No.		Part No.
R 645	(A,33,85)	RS1/10S121J
R 646	(A,34,83)	RS1/16SS102J
R 647	(B,42,77)	RS1/16SS103J
R 648	(B,48,81)	RS1/16SS103J
R 651	(A,42,71)	RS1/16SS100J
R 652	(A,53,71)	RS1/16SS100J
R 701	(B,29,96)	RS1/16SS221J
R 702	(B,30,96)	RS1/16SS471J
R 703	(B,33,96)	RS1/16SS331J
R 704	(A,32,94)	RS1/16SS223J
R 705	(B,34,92)	RS1/16SS471J
R 706	(B,34,96)	RS1/16SS223J
R 707	(B,62,140)	RS1/16SS333J
R 708	(B,65,144)	RS1/16SS223J
R 709	(B,61,140)	RS1/16SS473J
R 710	(B,59,144)	RS1/16SS152J
R 711	(B,57,142)	RS1/16SS222J
R 712	(B,60,138)	RS1/16SS223J
R 713	(B,57,140)	RS1/16SS473J
R 714	(B,72,139)	RS1/16SS153J
R 715	(B,72,140)	RS1/16SS180J
R 716	(B,73,140)	RS1/16SS223J
R 717	(A,157,18)	RS1/16SS470J
R 718	(A,160,21)	RS1/16SS152J
R 719	(A,150,18)	RS1/16SS223J
R 720	(A,162,21)	RS1/16SS472J
R 721	(A,160,18)	RS1/16SS821J
R 722	(A,160,16)	RS1/16SS153J
R 723	(A,163,20)	RS1/16SS470J
R 724	(B,164,16)	RS1/16SS223J
R 725	(A,165,15)	RS1/16SS222J
R 726	(A,164,20)	RS1/16SS472J
R 727	(A,129,50)	RS1/16SS152J
R 728	(A,132,49)	RS1/16SS822J
R 729	(A,136,49)	RS1/16SS223J
R 730	(A,133,49)	RS1/16SS222J
R 731	(A,143,47)	RS1/16SS2R2J
R 732	(A,131,50)	RS1/16SS103J
R 733	(B,31,22)	RS1/16SS103J
R 734	(B,35,25)	RS1/16SS101J
R 735	(B,24,21)	RS1/16SS223J
R 736	(B,31,21)	RS1/16SS103J
R 737	(B,38,24)	RS1/16SS223J
R 738	(B,37,21)	RS1/16SS102J
R 741	(B,23,83)	RS1/8S511J
R 742	(B,25,83)	RS1/8S511J
R 801	(B,52,96)	RS1/16SS223J
R 802	(B,55,99)	RS1/16SS104J
R 803	(B,54,101)	RS1/16SS105J
R 804	(B,55,97)	RS1/16SS105J
R 805	(B,43,102)	RS1/16SS221J
R 806	(B,20,101)	RS1/16SS222J
R 807	(B,25,92)	RS1/16SS473J
R 808	(B,26,92)	RS1/16SS471J
R 809	(B,17,87)	RS1/16SS472J
R 810	(B,13,89)	RS1/16SS220J
R 811	(B,12,90)	RS1/16SS223J
R 812	(B,14,94)	RS1/16SS224J
R 814	(B,16,97)	RS1/16SS225J
R 815	(B,20,100)	RS1/16SS182J
R 816	(B,17,84)	RS1/16SS223J
R 817	(B,17,85)	RS1/16SS102J
R 818	(B,45,99)	RS1/16SS3301D
R 819	(B,46,101)	RS1/16SS1001D
R 820	(B,55,89)	RS1/16SS104J
R 821	(B,55,93)	RS1/16SS104J
R 822	(B,55,95)	RS1/16SS105J
R 823	(B,55,91)	RS1/16SS105J
R 824	(B,45,92)	RS1/16SS105J
R 825	(B,43,95)	RS1/16SS221J
R 826	(B,45,93)	RS1/16SS3301D
R 827	(B,46,95)	RS1/16SS1001D
R 984	(B,59,24)	RS1/16S0R0J

CAPACITORS

C 11	(B,163,106)	CCSSCJ3R0C50
C 12	(A,159,101)	CCSSCH220J50
C 13	(B,136,65)	CKSSYB472K25
C 15	(A,142,70)	CCSSCH220J50
C 16	(B,140,68)	CKSSYB331K50
C 17	(A,142,68)	CCSSCH150J50
C 18	(A,140,68)	CCSSCH5R0C50
C 20	(A,142,62)	CKSSYB103K16
C 22	(A,139,58)	CKSSYB222K50
C 23	(A,133,58)	CKSSYB472K25
C 24	(B,127,61)	CCSSCH220J50
C 25	(A,132,65)	CCSRCH8R0D50
C 26	(A,132,67)	CKSSYB102K50
C 27	(A,129,58)	CKSSYB222K50
C 29	(A,124,58)	CKSSYB472K25
C 30	(A,123,65)	CCSRCH8R0D50
C 31	(A,123,67)	CKSSYB102K50
C 32	(B,137,57)	CKSRYB105K10
C 33	(B,136,57)	CKSSYB222K50
C 34	(B,131,57)	CCSSCH220J50
C 35	(B,126,57)	CKSSYB102K50
C 36	(B,163,109)	CCSSCJ3R0C50
C 37	(A,159,110)	CCSSCH220J50
C 38	(B,137,82)	CKSSYB472K25
C 40	(A,142,87)	CCSSCH220J50
C 41	(B,140,85)	CKSSYB331K50
C 42	(A,142,85)	CCSSCH150J50
C 43	(A,140,85)	CCSSCH5R0C50
C 45	(A,142,79)	CKSSYB103K16
C 47	(A,139,75)	CKSSYB222K50
C 48	(A,133,75)	CKSSYB472K25
C 49	(B,127,78)	CCSSCH220J50
C 50	(A,132,82)	CCSRCH8R0D50
C 51	(A,132,83)	CKSSYB102K50
C 52	(A,129,75)	CKSSYB222K50
C 54	(A,124,75)	CKSSYB472K25
C 55	(A,123,82)	CCSRCH8R0D50
C 56	(A,123,83)	CKSSYB102K50
C 57	(B,137,74)	CKSRYB105K10
C 58	(B,136,74)	CKSSYB222K50
C 59	(B,131,74)	CCSSCH220J50
C 60	(B,126,74)	CKSSYB102K50
C 61	(B,164,113)	CKSSYB103K16
C 62	(B,163,113)	CCSSCH101J50
C 90	(A,140,69)	CCSSCH8R0D50

Circuit Symbol and No.		Part No.
C 91	(A,140,86)	CCSSCH8R0D50
C 102	(B,158,85)	CKSSYB222K50
C 103	(B,154,87)	CKSSYB104K10
C 106	(A,150,40)	CKSSYB103K16
C 107	(A,150,45)	CEVW101M16
C 108	(B,157,28)	CKSSYB222K50
C 109	(B,157,31)	CKSSYB222K50
C 110	(B,156,48)	CCSSCH151J50
C 111	(A,150,65)	CCSSCH101J50
C 112	(A,150,71)	CEVW101M16
C 113	(A,151,65)	CKSSYB103K16
C 115	(A,152,53)	CSZSR470M10
C 116	(A,149,55)	CKSSYB103K16
C 118	(A,152,58)	CSZSR470M10
C 119	(A,149,60)	CKSSYB103K16
C 130	(A,158,101)	CKSSYB103K16
C 132	(A,150,117)	CCSSCH101J50
C 133	(B,144,122)	CKSSYB104K10
C 134	(A,157,114)	CEVW101M16
C 135	(A,152,117)	CKSSYB103K16
C 138	(A,134,117)	CKSSYB103K16
C 140	(A,109,115)	CSZSR470M10
C 141	(A,130,115)	CEVW101M16
C 142	(A,110,118)	CKSSYB103K16
C 144	(B,146,125)	CKSSYB222K50
C 145	(B,122,131)	CSZSR470M10
C 146	(B,121,128)	CKSSYB103K16
C 149	(B,104,89)	CKSRYB105K10
C 150	(B,148,66)	CKSSYB222K50
C 151	(A,119,116)	CCSSCH151J50
C 152	(B,106,89)	CKSRYB105K10
C 154	(B,134,50)	CKSSYB222K50
C 155	(A,132,95)	CCSSCH101J50
C 156	(A,125,104)	CCSSCH100D50
C 157	(A,134,95)	CKSSYB104K10
C 159	(A,125,102)	CKSSYB104K10
C 160	(A,126,100)	CCSSCH101J50
C 161	(A,125,95)	CKSSYB104K10
C 162	(A,129,100)	CKSSYB102K50
C 163	(A,132,100)	CCSSCH100D50
C 164	(A,131,106)	CCSSCH100D50
C 175	(B,23,119)	CKSSYB103K16
C 176	(B,27,122)	CKSSYB103K16
C 201	(B,38,114)	CCSQCH471J50
C 202	(B,46,114)	CCSQCH471J50
C 203	(B,43,114)	CCSQCH471J50
C 204	(B,49,114)	CCSQCH471J50
C 205	(B,99,105)	CKSRYB105K10
C 206	(B,97,105)	CKSRYB105K10
C 207	(B,95,105)	CKSRYB105K10
C 208	(B,93,105)	CKSRYB105K10
C 209	(B,94,102)	CCSSCH220J50
C 210	(B,97,102)	CCSSCH220J50
C 211	(B,94,99)	CCSSCH220J50
C 212	(B,99,99)	CCSSCH220J50
C 213	(B,107,94)	CKSSYB102K50
C 214	(B,103,94)	CKSSYB102K50
C 215	(A,106,97)	CCSSCH220J50
C 216	(B,102,100)	CCSSCH220J50
C 217	(B,97,95)	CCSSCH220J50

Circuit Symbol and No.		Part No.
C 218	(B,94,95)	CCSSCH220J50
C 219	(B,86,97)	CKSRYB105K10
C 220	(B,87,99)	CCSSCH220J50
C 222	(B,90,99)	CCSSCH220J50
C 223	(B,87,94)	CCSSCH220J50
C 224	(B,84,96)	CKSRYB105K10
C 225	(B,89,94)	CCSSCH220J50
C 226	(A,97,87)	CKSRYB105K10
C 227	(A,95,87)	CKSRYB105K10
C 243	(A,105,79)	CKSSYB103K16
C 244	(A,105,75)	CEVW470M16
C 245	(B,89,79)	CCSSCH220J50
C 246	(B,90,70)	CCSSCH220J50
C 249	(B,94,79)	CCSSCH220J50
C 250	(B,95,70)	CCSSCH220J50
C 251	(A,97,73) 10µF/16V	CCH1585
C 252	(A,97,68) 10µF/16V	CCH1585
C 253	(A,95,78) 10µF/16V	CCH1585
C 254	(A,95,82) 10µF/16V	CCH1585
C 255	(A,75,117)	CKSQYB103K50
C 256	(A,71,117)	CKSQYB103K50
C 257	(A,73,117)	CKSQYB103K50
C 258	(A,69,117)	CKSQYB103K50
C 259	(B,108,74)	CCSSCH220J50
C 260	(B,97,72)	CCSSCH220J50
C 261	(B,98,78)	CCSSCH220J50
C 262	(B,107,80)	CCSSCH220J50
C 263	(B,100,83) 10µF	CCG1182
C 264	(B,96,83) 10µF	CCG1182
C 265	(A,86,88) 10µF	CCG1182
C 266	(A,88,88) 10µF	CCG1182
C 267	(B,18,135)	CKSQYB103K50
C 268	(B,15,135)	CKSQYB103K50
C 269	(B,20,135)	CKSQYB103K50
C 270	(B,16,135)	CKSQYB103K50
C 301	(B,54,116)	CKSQYB222K50
C 302	(B,35,141)	CKSQYB223K50
C 303	(B,46,139)	CKSQYB473K50
C 304	(B,50,138)	CKSQYB103K50
C 305	(B,39,141)	CKSQYB223K50
C 306	(B,50,140)	CKSQYB473K50
C 308	(B,75,133)	CKSQYB222K50
C 310	(B,57,135)	CKSQYB223K50
C 311	(B,57,137)	CKSQYB223K50
C 312	(B,25,121)	CKSQYB103K50
C 313	(B,22,120)	CKSQYB103K50
C 314	(B,16,139)	CKSQYB102K50
C 315	(B,15,139)	CKSQYB102K50
C 316	(A,89,58)	CKSSYB104K10
C 317	(B,88,61)	CKSRYB474K10
C 318	(B,92,29)	CKSSYB104K10
C 320	(B,40,139)	CCSQCH181J50
C 321	(B,33,139)	CCSQCH181J50
C 322	(B,61,115)	CKSSYB102K50
C 323	(B,23,137)	CKSSYB102K50
C 324	(B,30,140)	CKSRYB103K50
C 325	(A,81,20)	CKSRYB105K10
C 326	(A,79,20)	CKSRYB105K10
C 327	(B,59,137)	CKSSYB472K25
C 328	(B,21,144)	CKSRYB104K50

Circuit Symbol and No.		Part No.
C 329	(B,22,139)	CKSRYB102K50
C 330	(B,20,139)	CKSQYB102K50
C 331	(B,18,139)	CKSQYB102K50
C 332	(B,88,62)	CKSSYB103K16
C 333	(B,75,136)	CKSQYB102K50
C 334	(B,73,136)	CKSQYB102K50
C 381	(B,101,69)	CKSSYB102K50
C 382	(A,106,68)	CKSSYB102K50
C 383	(A,98,64)	CKSQYB225K10
C 384	(A,102,66)	CKSQYB225K10
C 385	(A,83,73) 10µF/16V	CCH1585
C 386	(A,83,68) 10µF/16V	CCH1585
C 387	(A,83,78) 10µF/16V	CCH1585
C 388	(A,83,83) 10µF/16V	CCH1585
C 389	(A,25,121) 10µF	CCG1182
C 390	(A,25,116) 10µF	CCG1182
C 391	(A,22,116) 10µF	CCG1182
C 392	(A,23,121) 10µF	CCG1182
C 401	(A,28,58)	CKSQYB225K10
C 402	(A,32,62)	CEVW100M16
C 403	(B,102,105)	CKSRYB105K10
C 404	(B,102,103)	CKSRYB105K10
C 405	(A,25,42)	CEVW100M10
C 406	(A,25,47)	CEVW100M10
C 407	(A,25,36)	CKSSYB102K50
C 408	(A,19,38)	CKSQYB225K10
C 409	(B,147,8)	CKSSYB102K50
C 410	(B,149,8)	CKSSYB102K50
C 411	(B,151,8)	CKSSYB102K50
C 412	(B,152,8)	CKSSYB102K50
C 413	(B,155,8)	CCSSCH101J50
C 414	(B,156,8)	CCSSCH101J50
C 415	(B,157,8)	CCSSCH101J50
C 416	(B,158,8)	CCSSCH101J50
C 417	(B,159,8)	CCSSCH101J50
C 418	(B,160,8)	CCSSCH101J50
C 419	(B,162,8)	CKSSYB102K50
C 420	(B,163,8)	CCSSCH101J50
C 421	(A,20,28)	CKSSYB102K50
C 422	(B,26,36)	CKSSYB102K50
C 423	(B,26,35)	CKSSYB102K50
C 424	(B,21,38)	CKSSYB102K50
C 425	(B,23,34)	CKSSYB102K50
C 426	(A,22,26) 10µF	CCG1182
C 427	(B,25,31) 10µF	CCG1182
C 429	(A,23,17)	CKSRYB102K50
C 431	(B,26,38)	CKSSYB104K10
C 445	(B,87,66)	CKSSYB104K10
C 446	(A,90,69)	CEVW101M16
C 502	(B,98,41)	CSZSR470M10
C 503	(B,96,40)	CKSSYB102K50
C 504	(A,98,21)	CKSSYB104K10
C 507	(A,120,26)	CKSSYB104K10
C 508	(A,123,30)	CKSSYB104K10
C 509	(A,86,22)	CKSSYB472K25
C 510	(A,84,24)	CKSSYB472K25
C 512	(B,151,90)	CKSSYB223K16
C 602	(B,70,86)	CKSRYB104K50
C 603	(A,29,73) 470µF/16V	CCH1677
C 604	(B,61,78)	CKSYB225K16
C 605	(A,93,140) 1000µF/16V	CCH1681(P45)

Circuit Symbol and No.		Part No.
C 606	(A,62,86)	CKSQYB105K16
C 607	(A,66,56)	CEVLW470M16
C 608	(A,46,80) 10µF	CCG1182
C 609	(A,47,77) 10µF	CCG1182
C 610	(A,45,77) 10µF	CCG1182
C 611	(A,37,77)	CKSRYB154K10
C 612	(A,38,74)	CKSSYB123K16
C 613	(A,44,71)	CKSSYB104K10
C 614	(A,40,71)	CKSRYB105K10
C 615	(B,44,56) 10µF	CCG1182
C 616	(B,44,58) 10µF	CCG1182
C 617	(B,44,61)	CKSSYB473K10
C 618	(B,62,54)	CKSRYB104K50
C 620	(A,48,9)	CKSSYB102K50
C 621	(B,37,88)	CKSSYB102K50
C 622	(B,37,86)	CSZSR470M10
C 623	(B,34,84)	CKSRYB474K10
C 624	(A,140,140) 2200µF/16V	CCH1405(P45)
C 626	(A,56,80) 10µF	CCG1182
C 627	(A,47,72)	CKSRYB154K10
C 628	(A,48,73)	CKSSYB123K16
C 629	(A,55,71)	CKSSYB104K10
C 630	(A,51,71)	CKSRYB105K10
C 631	(B,53,56) 10µF	CCG1171
C 632	(B,53,58) 10µF	CCG1171
C 633	(B,53,61)	CKSSYB473K10
C 634	(A,58,77) 10µF	CCG1182
C 635	(A,56,77) 10µF	CCG1182
C 636	(A,30,78)	CKSRYB103K50
C 637	(A,34,85)	CKSSYB103K16
C 640	(B,66,54)	CKSRYB104K50
C 701	(B,133,138)	CKSRYB473K50
C 702	(B,131,138)	CKSRYB473K50
C 703	(A,152,141) 2200µF/16V	CCH1676(P45)
C 704	(A,27,88)	CKSRYB474K10
C 705	(A,24,83) 470µF/16V	CCH1677
C 706	(B,32,96)	CKSSYB102K50
C 707	(B,64,132)	CKSQYB103K50
C 708	(B,70,132)	CKSQYB103K50
C 709	(A,150,15)	CKSRYB104K50
C 710	(A,161,21)	CKSSYB104K10
C 711	(A,159,16)	CKSQYB105K16
C 712	(A,165,16)	CKSSYB104K10
C 713	(A,143,51)	CKSRYB104K50
C 714	(A,131,51)	CKSSYB103K16
C 715	(A,143,49)	CKSRYB103K50
C 716	(B,22,26)	CKSRYB104K50
C 717	(B,25,26)	CKSYB475K16
C 718	(B,38,23)	CKSSYB102K50
C 719	(B,59,143)	CKSSYB103K16
C 721	(A,113,58)	CKSSYB102K50
C 724	(A,138,12)	CKSSYB102K50
C 751	(B,27,87)	CKSSYB272K50
C 761	(B,125,138)	CKSRYB473K50
C 762	(B,127,138)	CKSRYB473K50
C 763	(A,104,141) 3300µF/16V	CCH1486(P45)
C 764	(A,23,99)	CSZSC101M10
C 765	(B,25,87)	CKSRYB473K50
C 766	(A,11,100)	CKSRYB105K10
C 767	(B,15,85)	CCSSCH221J50

Circuit Symbol and No.		Part No.
C 768	(B,17,91)	CKSYB475K16
C 769	(B,16,98)	CKSSYB104K10
C 770	(B,23,91)	CKSYB225K16
C 771	(B,15,81)	CKSRYB105K10
C 772	(B,23,102)	CKSSYB104K10
C 773	(A,20,108)	CKSSYB104K10
C 801	(B,49,89)	CKSYB475K16
C 802	(B,55,101)	CCSSCH470J50
C 803	(A,38,102)	CKSYB475K16
C 804	(B,55,98)	CCSSCH470J50
C 805	(B,46,98)	CKSSYB104K10
C 806	(B,49,96)	CKSSYB103K16
C 807	(A,53,93)	CSZSC101M10
C 809	(B,40,102)	CKSYB475K16
C 810	(B,37,102)	CCSSCH470J50
C 812	(B,41,97)	CKSSYB103K16
C 813	(A,44,99)	CSZSR220M10
C 814	(A,48,101)	CSZSC101M10
C 815	(B,55,94)	CCSSCH470J50
C 816	(B,55,92)	CCSSCH470J50
C 817	(B,53,90)	CKSSYB103K16
C 819	(B,46,92)	CCSSCH470J50
C 820	(A,42,90)	CKSYB475K16
C 822	(B,40,95)	CKSYB475K16
C 823	(B,37,95)	CCSSCH470J50
C 825	(B,41,90)	CKSSYB103K16
C 826	(A,44,94)	CSZSR220M10
C 827	(A,48,93)	CSZSC101M10
C 828	(A,38,100)	CKSYB475K16
C 926	(A,45,15)	CKSSYB102K50

Connector Unit
Consists of
Connector1 PCB
Connector2 PCB

CD

Unit Number : CWM9654
Unit Name : Connector Unit

MISCELLANEOUS

IC 1101	(A,27,3) IC	TC7W04FU
D 1003	(B,17,29) Diode	NNCD6R8LG
D 1004	(B,24,28) Diode	UDZS18(B)
D 1005	(B,26,28) Diode	UDZS18(B)
D 1006	(B,28,28) Diode	UDZS18(B)
D 1007	(B,30,28) Diode	UDZS18(B)
D 1101	(B,6,17) Diode	UDZS18(B)
D 1102	(B,11,8) Diode	UDZS18(B)
D 1103	(B,27,11) Diode	UDZS18(B)
D 1104	(B,27,14) Diode	UDZS18(B)
D 1105	(B,13,8) Diode	UDZS18(B)
D 1106	(B,6,19) Diode	UDZS18(B)
L 1101	(B,31,5) Inductor	LCTAW101J2520
L 1102	(A,22,5) Inductor	LCYB47NJ1608
L 1103	(A,26,13) Coil	CTC1184
L 1104	(A,22,4) Inductor	LCYB47NJ1608
EF1001	(A,63,11) EMI Filter	CCG1076
EF1101	(A,7,17) EMI Filter	CCG1076
EF1102	(A,7,13) EMI Filter	CCG1076
EF1103	(A,7,21) EMI Filter	CCG1076

RESISTORS

R 1001	(A,65,11)	RS1/10S750J
R 1101	(A,31,10)	RS1/10S271J
R 1102	(A,31,12)	RS1/10S101J
R 1103	(A,23,9)	RS1/16SS101J
R 1104	(A,5,26)	RS1/10S750J
R 1106	(B,36,11)	RS1/10S101J
R 1107	(A,35,10)	RS1/10S101J
R 1108	(B,38,11)	RS1/10S271J
R 1109	(A,35,12)	RS1/10S271J

CAPACITORS

C 1018	(B,18,25)	CKSRYB102K50
C 1019	(B,22,28)	CKSRYB102K50
C 1020	(B,33,26)	CKSRYB102K50
C 1101	(B,24,5)	CKSRYB105K6R3
C 1102	(A,22,9)	CCSSCH470J50
C 1103	(A,27,5)	CCSSCH680J50
C 1104	(A,25,5)	CKSSYB103K16
C 1105	(A,26,7)	CSZSR470M10
C 1106	(A,23,3)	CCSSCH5R0C50
C 1107	(A,22,7)	CCSSCH5R0C50

E

Unit Number : CWX3050
Unit Name : DVD Core Unit

MISCELLANEOUS

IC 1001	(A,7,9) IC	S-L2980A50MC-C7J
IC 1003	(A,83,36) IC	LTC3411EMS
IC 1201	(A,23,73) IC	AN8471SAT1
IC 1240	(A,49,74) IC	BD7962FM
IC 1501	(A,86,79) IC	MN35103UB
IC 1570	(B,68,87) IC	EDS1232AATA-75
IC 1601	(B,108,57) IC	PD6496E
IC 1602	(B,120,62) IC	TC7SH86FUS1
IC 1651	(B,108,27) IC	M5M5V216ATP-70HI
IC 1652	(B,98,36) IC	TC7SZ126FU
IC 1671	(B,108,43) IC	TC74LCX16373AFT
IC 1672	(B,98,40) IC	TC7SZ08FU
IC 1801	(B,33,92) IC	SM8707LV
IC 1802	(B,33,81) IC	TC7WH157FU
IC 1851	(B,16,87) IC	PCM1742KE
IC 1852	(B,17,79) IC	NJM2100V
IC 1853	(B,17,74) IC	NJM2100V
IC 1881	(B,14,45) IC	TC74VHC541FTS1
IC 1901	(A,23,56) IC	BA033SFP
IC 2001	(A,108,39) IC	PE5443A
IC 2002	(A,98,28) IC	BR93L56RFVM-W
IC 2003	(A,98,23) IC	TC74HC4053AFT
IC 2006	(B,122,25) IC	NJM2904V
Q 1002	(A,76,37) Transistor	DTC114EU
Q 1101	(A,53,91) Transistor	2SB1260
Q 1102	(A,53,97) Transistor	2SB1260

Circuit Symbol and No.		Part No.
Q 1103	(A,58,102) Transistor	DTC114EU
Q 1104	(A,55,102) Transistor	2SA1576
Q 1105	(A,50,102) Transistor	2SC4081
Q 1106	(A,63,93) Transistor	2SC4081
Q 1107	(A,63,99) Transistor	2SC4081
Q 1551	(A,107,98) Transistor	2SA1576
Q 2001	(A,123,42) Transistor	2SA2018
D 1001	(A,12,7) Diode	1SR154-400
D 1101	(A,49,91) Diode	1SS355
D 1102	(A,49,96) Diode	1SS355
D 2001	(B,94,36) Diode	DAN202U
L 1001	(A,77,30) Inductor	CTF1623
L 1002	(A,86,26) Inductor	CTF1624
L 1022	(A,9,5) Inductor	CTF1558
L 1101	(A,19,99) Inductor	CTF1305
L 1501	(A,118,69) Inductor	CTF1378
L 1502	(A,121,61) Inductor	CTF1487
L 1503	(B,75,71) Inductor	CTF1488
L 1554	(A,89,98) Inductor	CTF1473
L 1555	(A,90,100) Inductor	CTF1473
L 1556	(A,96,103) Inductor	CTF1400
L 1557	(A,103,102) Inductor	CTF1395
L 1558	(A,106,84) Inductor	CTF1473
L 1559	(A,73,101) Inductor	CTF1387
L 1561	(A,112,97) Inductor	CTF1473
L 1601	(B,112,68) Inductor	CTF1464
L 1651	(B,120,35) Inductor	CTF1464
L 1671	(B,120,39) Inductor	CTF1473
L 1801	(B,27,93) Inductor	CTF1558
L 1802	(B,27,90) Inductor	CTF1558
L 1803	(B,30,76) Inductor	CTF1464
L 1804	(B,35,76) Inductor	CTF1385
L 1805	(B,35,87) Inductor	CTF1385
L 1851	(B,25,89) Inductor	CTF1464
L 1852	(B,25,83) Inductor	CTF1473
L 1881	(B,20,46) Inductor	CTF1473
L 1883	(B,19,51) Ferrite Bead	CTF1528
L 1884	(B,14,51) Inductor	CTF1389
L 1885	(B,13,51) Ferrite Bead	CTF1528
L 1886	(B,12,51) Ferrite Bead	CTF1528
L 1901	(B,17,15) Inductor	CTF1487
L 1902	(A,14,20) Inductor	CTF1558
L 1903	(A,16,22) Inductor	CTF1558
L 1904	(B,23,24) Inductor	CTF1468
L 1907	(B,23,22) Inductor	CTF1558
X 1801	(B,34,99) Resonator 27.000MHz	CSS1661
X 2001	(A,109,50) Ceramic Resonator 9.830MHz	CSS1684
VR1551	(A,86,103) Semi-fixed 10kΩ(B)	CCP1448
EF1570	(B,75,74) EMI Filter	DTF1106
EF1801	(B,27,87) EMI Filter	DTL1106
EF1802	(B,30,79) EMI Filter	DTL1106
EF1803	(B,27,96) EMI Filter	DTL1106
EF1901	(A,11,20) EMI Filter	DTL1106
EF1902	(A,13,22) EMI Filter	DTL1106
EF1903	(B,21,24) EMI Filter	DTL1106
EF1905	(B,13,15) EMI Filter	DTF1106
EF1907	(B,21,22) EMI Filter	DTL1106

RESISTORS

Circuit Symbol and No.		Part No.
R 1003	(A,85,41)	RS1/16SS1003D
R 1005	(A,83,41)	RS1/16SS1501D
R 1006	(A,85,42)	RS1/16SS8202D
R 1007	(A,83,42)	RS1/16SS1502D
R 1008	(A,81,42)	RS1/16SS101J
R 1010	(A,88,37)	RS1/16SS105J
R 1011	(A,79,37)	RS1/16SS105J
R 1013	(A,85,39)	RS1/16SS103J
R 1014	(A,79,39)	RS1/16SS1203D
R 1015	(A,78,39)	RS1/16SS2402D
R 1016	(A,77,39)	RS1/16SS0R0J
R 1017	(A,75,39)	RS1/16SS0R0J
R 1018	(A,89,37)	RS1/16SS105J
R 1021	(A,83,39)	RS1/16SS122J
R 1101	(A,61,90)	RS1/16S6R8J
R 1102	(A,57,91)	RS1/16SS3R9J
R 1103	(A,57,89)	RS1/16SS3R9J
R 1104	(A,56,89)	RS1/16SS3R9J
R 1105	(A,56,91)	RS1/16SS3R9J
R 1106	(A,61,97)	RS1/16S6R8J
R 1107	(A,57,98)	RS1/16SS3R9J
R 1108	(A,57,96)	RS1/16SS3R9J
R 1109	(A,56,96)	RS1/16SS3R9J
R 1110	(A,56,98)	RS1/16SS3R9J
R 1111	(A,54,104)	RS1/16SS272J
R 1112	(A,57,104)	RS1/16SS472J
R 1113	(A,50,104)	RS1/16SS102J
R 1114	(A,56,94)	RS1/16SS221J
R 1115	(A,57,100)	RS1/16SS221J
R 1116	(A,63,95)	RS1/16SS331J
R 1117	(A,63,101)	RS1/16SS221J
R 1120	(A,57,93)	RS1/16SS0R0J
R 1201	(A,18,96)	RS1/16SS181J
R 1202	(A,14,95)	RS1/16SS181J
R 1203	(A,16,74)	RS1/16SS513J
R 1204	(A,16,71)	RS1/16SS221J
R 1206	(A,29,70)	RS1/16SS513J
R 1209	(A,19,88)	RS1/10S391J
R 1210	(A,15,88)	RS1/10S391J
R 1211	(A,29,76)	RS1/16SS1R0J
R 1212	(A,29,75)	RS1/16SS1R0J
R 1213	(A,29,74)	RS1/16SS1R0J
R 1214	(A,29,73)	RS1/16SS1R0J
R 1215	(A,29,72)	RS1/16SS1R0J
R 1216	(A,29,71)	RS1/16SS1R0J
R 1217	(A,15,75)	RS1/16SS102J
R 1251	(A,54,84)	RS1/16SS102J
R 1252	(A,51,85)	RS1/16SS472J
R 1253	(A,52,82)	RS1/16SS823J
R 1254	(A,52,84)	RS1/16SS122J
R 1255	(A,51,84)	RS1/16SS122J
R 1256	(A,51,82)	RS1/16SS682J
R 1257	(A,54,82)	RAB4CQ103J
R 1258	(A,47,84)	RS1/16SS223J
R 1259	(A,45,84)	RS1/16SS223J
R 1260	(A,46,82)	RS1/16SS393J
R 1261	(A,45,82)	RS1/16SS393J
R 1262	(A,54,67)	RS1/16SS273J
R 1263	(A,53,67)	RS1/16SS153J
R 1264	(A,52,67)	RS1/16SS102J

Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.
R 1265	(A,48,67)	RS1/16SS183J	R 1577	(A,67,83)	RAB4CQ560J
R 1266	(A,47,67)	RS1/16SS333J	R 1578	(A,67,81)	RAB4CQ560J
R 1272	(A,47,85)	RS1/16SS102J	R 1579	(A,69,79)	RS1/16SS220J
R 1273	(A,45,85)	RS1/16SS102J	R 1580	(A,67,78)	RAB4CQ560J
R 1274	(A,56,83)	RS1/10S0R0J	R 1581	(A,67,76)	RS1/16SS560J
R 1501	(A,89,58)	RS1/16SS0R0J	R 1582	(A,67,75)	RS1/16SS560J
R 1502	(A,80,63)	RS1/16SS0R0J	R 1583	(A,67,74)	RS1/16SS560J
R 1503	(A,81,60)	RAB4CQ101J	R 1584	(A,67,72)	RAB4CQ560J
R 1504	(A,82,58)	RS1/16SS0R0J	R 1585	(A,67,70)	RS1/16SS560J
R 1505	(A,83,58)	RS1/16SS0R0J	R 1586	(A,67,69)	RS1/16SS560J
R 1506	(A,84,60)	RAB4CQ101J	R 1587	(A,67,67)	RAB4CQ101J
R 1507	(A,86,63)	RS1/16SS0R0J	R 1588	(A,67,64)	RAB4CQ101J
R 1508	(A,87,60)	RAB4CQ101J	R 1589	(A,74,60)	RAB4CQ101J
R 1509	(A,87,58)	RS1/16SS0R0J	R 1590	(A,77,60)	RAB4CQ101J
R 1511	(A,90,60)	RAB4CQ101J	R 1593	(B,61,86)	RS1/16SS104J
R 1512	(A,90,58)	RS1/16SS0R0J	R 1595	(A,78,101)	RS1/16SS101J
R 1513	(A,92,59)	RS1/16SS473J	R 1599	(A,71,101)	RS1/16S221J
R 1514	(A,93,61)	RS1/16SS104J	R 1604	(B,120,60)	RS1/16SS0R0J
R 1515	(A,105,66)	RS1/16SS222J	R 1608	(B,94,52)	RS1/16SS104J
R 1521	(A,96,57)	RS1/16SS0R0J	R 1613	(B,96,64)	RS1/16SS0R0J
R 1522	(A,103,68)	RS1/16SS103J	R 1621	(B,119,57)	RS1/16SS0R0J
R 1523	(A,94,61)	RS1/16SS104J	R 1652	(B,103,35)	RS1/16SS104J
R 1525	(A,95,59)	RS1/16SS102J	R 1653	(B,101,35)	RS1/16SS510J
R 1526	(A,94,57)	RS1/16SS0R0J	R 1671	(B,103,49)	RAB4CQ101J
R 1529	(A,95,57)	RS1/16SS0R0J	R 1672	(B,107,50)	RAB4CQ101J
R 1530	(A,97,63)	RS1/16SS104J	R 1673	(B,109,50)	RAB4CQ101J
R 1531	(A,99,60)	RS1/16S221J	R 1674	(B,113,49)	RAB4CQ101J
R 1532	(A,100,60)	RS1/16SS104J	R 1675	(B,101,41)	RS1/16SS331J
R 1536	(A,99,63)	RS1/16SS104J	R 1701	(A,103,69)	RS1/16SS103J
R 1537	(A,100,63)	RS1/16SS104J	R 1702	(A,105,68)	RS1/16SS103J
R 1539	(A,103,75)	RS1/16SS104J	R 1705	(A,90,98)	RN1/16SE1002D
R 1540	(A,103,70)	RS1/16SS221J	R 1709	(A,93,100)	RS1/16S1502D
R 1541	(A,104,71)	RS1/16SS473J	R 1710	(A,95,98)	RS1/16SS102J
R 1543	(A,103,72)	RS1/16SS104J	R 1711	(A,97,99)	RS1/16SS683J
R 1544	(A,103,74)	RS1/16SS102J	R 1712	(A,98,96)	RS1/16SS103J
R 1545	(A,104,74)	RS1/16SS102J	R 1713	(A,99,96)	RS1/16SS103J
R 1546	(A,105,64)	RS1/16SS104J	R 1714	(A,101,96)	RS1/16SS0R0J
R 1547	(A,104,75)	RS1/16SS330J	R 1715	(A,104,94)	RS1/16SS0R0J
R 1548	(A,95,61)	RS1/16SS104J	R 1716	(A,104,93)	RS1/16SS0R0J
R 1552	(A,73,102)	RS1/16S101J	R 1717	(A,104,92)	RS1/16SS0R0J
R 1553	(A,76,101)	RS1/16S101J	R 1718	(A,103,91)	RS1/16SS103J
R 1554	(A,77,101)	RS1/16S101J	R 1719	(A,104,91)	RS1/16SS103J
R 1555	(A,79,98)	RS1/16S101J	R 1720	(A,103,90)	RS1/16SS103J
R 1556	(A,80,101)	RS1/16S101J	R 1721	(A,104,90)	RS1/16SS103J
R 1558	(A,85,96)	RS1/16SS750J	R 1723	(A,106,87)	RN1/16SE3901D
R 1561	(A,88,96)	RS1/16SS153J	R 1729	(A,105,81)	RAB4CQ220J
R 1562	(A,109,96)	RS1/16SS471J	R 1730	(A,105,78)	RAB4CQ220J
R 1563	(A,110,96)	RS1/16SS471J	R 1733	(B,92,87)	RS1/16SS104J
R 1565	(A,112,95)	RS1/16S68R0D	R 1734	(B,91,87)	RS1/16SS104J
R 1566	(A,114,95)	RS1/16S4R7J	R 1801	(B,31,87)	RS1/16S0R0J
R 1567	(A,83,102)	RS1/16SS273J	R 1802	(B,29,94)	RS1/16S151J
R 1568	(A,83,104)	RS1/16SS183J	R 1803	(B,29,87)	RS1/16S151J
R 1569	(A,84,98)	RS1/16SS153J	R 1804	(B,32,87)	RS1/16S221J
R 1570	(A,81,101)	RS1/16SS222J	R 1805	(B,37,87)	RS1/16S271J
R 1571	(A,73,99)	RAB4CQ101J	R 1806	(B,33,86)	RS1/16SS104J
R 1572	(A,73,96)	RAB4CQ101J	R 1809	(B,33,77)	RS1/16SS0R0J
R 1573	(A,67,91)	RAB4CQ101J	R 1811	(B,16,40)	RS1/16SS0R0J
R 1574	(A,67,88)	RAB4CQ101J	R 1812	(B,15,40)	RS1/16SS0R0J
R 1575	(A,67,86)	RS1/16SS560J	R 1813	(B,14,40)	RS1/16SS0R0J
R 1576	(A,67,85)	RS1/16SS560J	R 1814	(B,13,40)	RS1/16SS0R0J

Circuit Symbol and No.		Part No.
R 1821	(B,37,81)	RS1/16SS222J
R 1823	(B,36,96)	RS1/16SS101J
R 1825	(B,35,79)	RS1/16SS101J
R 1851	(B,11,91)	RS1/16SS0R0J
R 1855	(B,16,53)	RS1/16S0R0J
R 1856	(B,14,77)	RS1/16SS102J
R 1857	(B,14,82)	RS1/16SS102J
R 1858	(B,11,77)	RS1/16SS222J
R 1859	(B,11,82)	RS1/16SS222J
R 1860	(B,12,77)	RS1/16SS332J
R 1861	(B,12,82)	RS1/16SS332J
R 1862	(B,12,75)	RS1/16SS332J
R 1863	(B,12,80)	RS1/16SS332J
R 1864	(B,10,73)	RS1/16SS103J
R 1865	(B,10,78)	RS1/16SS103J
R 1866	(B,12,73)	RS1/16SS472J
R 1867	(B,12,78)	RS1/16SS472J
R 1868	(B,19,71)	RS1/16SS821J
R 1869	(B,12,71)	RS1/16SS821J
R 1870	(B,18,66)	RS1/16SS104J
R 1871	(B,12,66)	RS1/16SS104J
R 1875	(B,16,91)	RS1/16SS0R0J
R 1881	(B,20,49)	RS1/16SS104J
R 1882	(B,16,51)	RS1/16S221J
R 1889	(B,19,49)	RS1/16SS221J
R 1897	(B,37,84)	RS1/16SS101J
R 1899	(B,18,38)	RS1/16SS473J
R 1901	(A,18,24)	RS1/16SS221J
R 1903	(A,20,26)	RS1/16SS221J
R 1905	(A,18,50)	RS1/16SS102J
R 1922	(A,16,30)	RS1/16SS0R0J
R 1923	(A,117,82)	RS1/16SS221J
R 1924	(B,26,33)	RS1/16S221J
R 1927	(A,15,30)	RS1/16SS0R0J
R 1931	(B,25,26)	RS1/16SS0R0J
R 1933	(B,25,27)	RS1/16SS0R0J
R 1938	(A,16,36)	RS1/16SS0R0J
R 1945	(B,24,36)	RS1/16SS0R0J
R 1947	(A,115,77)	RS1/16SS221J
R 1954	(A,16,26)	RS1/16SS221J
R 1955	(A,18,27)	RS1/16SS221J
R 2000	(A,118,32)	RS1/16SS104J
R 2001	(A,120,32)	RS1/16SS104J
R 2002	(A,118,34)	RS1/16SS472J
R 2003	(A,118,35)	RS1/16SS104J
R 2006	(A,118,37)	RS1/16SS104J
R 2007	(A,120,37)	RS1/16SS104J
R 2008	(A,118,38)	RS1/16SS104J
R 2009	(A,120,38)	RS1/16SS103J
R 2010	(A,105,27)	RS1/16SS473J
R 2011	(A,118,40)	RS1/16SS103J
R 2012	(A,120,41)	RS1/16SS103J
R 2013	(A,120,42)	RS1/16SS223J
R 2016	(A,120,45)	RS1/16SS184J
R 2021	(A,104,52)	RS1/16SS104J
R 2022	(A,99,49)	RS1/16S221J
R 2023	(A,95,46)	RS1/16S221J
R 2037	(A,98,34)	RS1/16SS104J
R 2038	(A,96,32)	RS1/16SS104J
R 2040	(A,103,29)	RS1/16SS104J

Circuit Symbol and No.		Part No.
R 2041	(A,104,27)	RS1/16SS221J
R 2042	(A,104,29)	RS1/16SS104J
R 2043	(A,106,29)	RS1/16SS104J
R 2044	(A,106,27)	RS1/16SS104J
R 2045	(A,107,29)	RS1/16SS104J
R 2046	(A,107,27)	RS1/16SS104J
R 2047	(A,108,29)	RS1/16SS104J
R 2048	(A,108,27)	RS1/16SS104J
R 2049	(A,109,29)	RS1/16SS104J
R 2050	(A,109,24)	RS1/16SS104J
R 2051	(A,112,24)	RS1/16SS104J
R 2054	(A,110,29)	RS1/16SS104J
R 2055	(A,112,29)	RS1/16SS104J
R 2057	(A,113,27)	RS1/16SS104J
R 2059	(A,120,34)	RS1/16SS104J
R 2060	(A,118,46)	RS1/16SS473J
R 2061	(A,118,45)	RS1/16SS682J
R 2062	(A,112,51)	RS1/16SS473J
R 2063	(A,106,54)	RS1/16SS104J
R 2064	(A,105,54)	RS1/16SS222J
R 2065	(A,106,52)	RS1/16SS473J
R 2067	(A,105,52)	RS1/16SS473J
R 2068	(A,104,49)	RS1/16SS104J
R 2073	(A,96,31)	RS1/16SS473J
R 2074	(A,98,31)	RS1/16SS472J
R 2075	(A,102,29)	RS1/16SS473J
R 2076	(B,92,42)	RS1/16SS0R0J
R 2077	(A,122,39)	RS1/16SS272J
R 2078	(A,123,39)	RS1/16SS103J
R 2080	(A,103,23)	RS1/16SS272J
R 2081	(A,103,22)	RS1/16SS243J
R 2082	(A,104,50)	RS1/16SS221J
R 2083	(B,92,44)	RS1/16SS221J
R 2084	(A,97,35)	RS1/16SS221J
R 2086	(A,98,33)	RS1/16SS0R0J
R 2087	(A,83,51)	RS1/16S0R0J
R 2092	(A,105,25)	RS1/16SS103J
R 2093	(A,106,25)	RS1/16SS103J
R 2094	(A,120,28)	RS1/16S0R0J
R 2096	(A,98,48)	RS1/16SS104J
R 2097	(A,102,27)	RS1/16SS104J
R 2098	(A,115,29)	RS1/16SS104J
R 2109	(A,108,48)	RS1/16SS105J
R 2110	(A,75,55)	RS1/16SS392J
R 2111	(A,74,57)	Rs1/16SS123J

CAPACITORS

C 1001	(A,6,6)	CKSRYB105K10
C 1005	(A,4,9)	CKSRYB105K10
C 1006	(A,76,23)	CKSRYB104K25
C 1007	(A,79,26) 22µF	CCG1178
C 1008	(A,84,32) 22µF	CCG1178
C 1009	(A,83,40)	CCSSCH220J50
C 1010	(A,81,39)	CKSSYB102K50
C 1012	(A,79,24) 22µF	CCG1178
C 1013	(A,84,30) 22µF	CCG1178
C 1101	(A,29,83)	CSZSR220M16
C 1102	(A,59,91)	CSZSR101M6R3

Circuit Symbol and No.			Part No.	Circuit Symbol and No.		Part No.
C 1103	(A,56,93)		CKSSYB104K10	C 1553	(A,90,102)	CKSRYB104K25
C 1104	(A,49,93)		CKSSYB103K16	C 1554	(A,87,96)	CKSSYB104K10
C 1105	(A,59,97)		CSZSR101M6R3	C 1555	(A,87,98)	CKSRYB105K10
C 1106	(A,56,100)		CKSSYB104K10	C 1556	(A,100,101)	CSZSR470M10
C 1107	(A,49,98)		CKSSYB103K16	C 1557	(A,89,96)	CKSSYB104K10
C 1108	(A,52,103)		CKSRYB104K25	C 1558	(A,111,98)	CSZS4R7M16
C 1109	(A,56,104)		CKSSYB473K10	C 1559	(A,84,100)	CKSRYB105K10
C 1110	(A,47,104)		CKSSYB473K10	C 1570	(B,67,73)	CSZSR470M10
C 1111	(A,41,88)		CKSSYB103K16	C 1571	(B,76,77)	CKSRYB474K10
C 1112	(A,41,104)		CKSRYB105K10	C 1572	(B,76,85)	CKSRYB474K10
C 1113	(A,40,104)		CKSRYB105K10	C 1573	(B,61,80)	CKSRYB474K10
C 1114	(A,40,99)		CKSSYB103K16	C 1574	(B,61,83)	CKSRYB474K10
C 1115	(A,35,83)		CSZSR220M16	C 1575	(B,61,91)	CKSRYB474K10
C 1201	(A,33,79)	10µF	CCG1138	C 1576	(B,61,94)	CKSRYB474K10
C 1202	(A,29,78)		CKSRYB104K25	C 1577	(B,61,97)	CKSRYB474K10
C 1203	(A,21,64)		CSZSR220M16	C 1578	(B,76,98)	CKSRYB474K10
C 1204	(A,29,68)		CKSRYB104K25	C 1579	(B,76,79)	CKSRYB474K10
C 1205	(A,16,67)		CKSRYB104K25	C 1580	(B,76,82)	CKSRYB474K10
C 1206	(A,17,67)		CKSRYB104K25	C 1581	(B,76,92)	CKSRYB474K10
C 1207	(A,24,64)		CSZSR220M16	C 1582	(B,76,95)	CKSRYB474K10
C 1208	(A,17,80)		CKSRYB104K25	C 1583	(B,71,73)	CSZSR470M10
C 1240	(A,46,81)		CCSSCH470J50	C 1601	(B,110,65)	CSZSR470M10
C 1241	(A,45,81)		CCSSCH5R0C50	C 1603	(B,96,51)	CKSSYB104K10
C 1243	(A,38,73)	10µF	CCG1138	C 1651	(B,121,33)	CSZSR470M10
C 1244	(A,54,68)		CKSSYB472K25	C 1653	(B,108,20)	CKSSYB104K10
C 1245	(A,47,68)		CKSSYB103K16	C 1654	(B,98,34)	CKSRYB104K25
C 1501	(A,115,69)		CSZSR470M10	C 1655	(B,108,34)	CKSSYB104K10
C 1502	(A,118,61)		CSZSR101M6R3	C 1671	(B,106,48)	CKSSYB104K10
C 1503	(A,114,61)		CSZSR101M6R3	C 1672	(B,110,48)	CKSSYB104K10
C 1504	(A,74,63)		CKSSYB104K10	C 1673	(B,110,37)	CKSSYB104K10
C 1505	(A,76,63)		CKSSYB104K10	C 1674	(B,106,37)	CKSSYB104K10
C 1506	(A,79,62)		CKSSYB104K10	C 1675	(B,98,42)	CKSRYB104K25
C 1507	(A,79,63)		CKSSYB104K10	C 1676	(B,118,39)	CKSYB106K6R3
C 1508	(A,82,63)		CKSSYB104K10	C 1701	(A,106,67)	CKSRYB104K25
C 1509	(A,85,63)		CKSSYB104K10	C 1702	(A,105,69)	CKSRYB104K25
C 1510	(A,90,63)		CKSSYB104K10	C 1703	(A,90,96)	CKSSYB104K10
C 1511	(A,96,63)		CKSSYB104K10	C 1704	(A,91,96)	CKSSYB103K16
C 1512	(A,102,68)		CKSSYB104K10	C 1706	(A,92,96)	CKSSYB104K10
C 1513	(A,103,73)		CKSSYB104K10	C 1707	(A,96,100)	CKSSYB104K10
C 1514	(A,103,78)		CKSSYB104K10	C 1708	(A,95,100)	CKSSYB103K16
C 1515	(A,103,80)		CKSSYB104K10	C 1709	(A,92,98)	CCSRCH221J50
C 1516	(A,82,96)		CKSSYB104K10	C 1710	(A,97,98)	CKSSYB152K50
C 1517	(A,78,96)		CKSSYB104K10	C 1711	(A,94,97)	CKSRYB105K10
C 1518	(A,76,96)		CKSSYB104K10	C 1712	(A,96,97)	CKSRYB105K10
C 1519	(A,76,97)		CKSSYB104K10	C 1713	(A,97,97)	CKSRYB105K10
C 1520	(A,70,91)		CKSSYB104K10	C 1715	(A,104,89)	CKSSYB104K10
C 1521	(A,70,89)		CKSSYB104K10	C 1716	(A,103,88)	CKSSYB104K10
C 1522	(A,70,86)		CKSSYB104K10	C 1717	(A,104,88)	CKSSYB104K10
C 1523	(A,70,85)		CKSSYB104K10	C 1718	(A,103,87)	CKSSYB104K10
C 1524	(A,70,83)		CKSSYB104K10	C 1719	(A,104,87)	CKSSYB562K25
C 1525	(A,70,81)		CKSSYB104K10	C 1720	(A,103,86)	CCSSCH101J50
C 1526	(A,70,78)		CKSSYB104K10	C 1721	(A,104,86)	CCSSCH470J50
C 1527	(A,70,75)		CKSSYB104K10	C 1722	(A,103,85)	CKSSYB103K16
C 1528	(A,70,73)		CKSSYB104K10	C 1723	(A,104,85)	CKSSYB104K10
C 1529	(A,70,71)		CKSSYB104K10	C 1724	(A,103,84)	CKSSYB104K10
C 1530	(A,70,69)		CKSSYB104K10	C 1725	(A,104,84)	CKSSYB104K10
C 1531	(A,98,63)		CKSSYB471K50	C 1726	(A,103,83)	CCSSCH330J50
C 1532	(A,105,67)		CKSSYB103K16	C 1727	(A,104,83)	CKSSYB333K16
C 1533	(A,105,65)		CKSSYB103K16	C 1728	(A,103,82)	CKSSYB104K10
C 1552	(A,83,96)		CKSSYB104K10	C 1801	(B,31,96)	CKSSYB104K10

Circuit Symbol and No.		Part No.
C 1802	(B,33,96)	CKSSYB104K10
C 1804	(B,34,87)	CKSSYB104K10
C 1809	(B,32,101)	CCSSCJ3R0C50
C 1810	(B,36,101)	CCSSCK2R0C50
C 1811	(B,35,81)	CKSSYB104K10
C 1851	(B,21,87)	CKSSYB104K10
C 1852	(B,12,85)	CKSSYB104K10
C 1853	(B,10,85)	CKSYB106K6R3
C 1854	(B,23,84)	CKSYB106K6R3
C 1855	(B,21,84)	CKSRYB104K25
C 1856	(B,17,82)	CKSQYB225K10
C 1857	(B,10,80)	CCSRCH471J50
C 1858	(B,10,74)	CCSRCH471J50
C 1859	(B,10,81)	CCSRCH471J50
C 1860	(B,10,76)	CCSRCH471J50
C 1861	(B,17,77)	CKSQYB225K10
C 1862	(B,19,69)	CKSSYB471K50
C 1863	(B,11,71)	CKSSYB471K50
C 1864	(B,17,69)	CKSYB475K10
C 1865	(B,14,69)	CKSYB475K10
C 1881	(B,19,46)	CKSSYB104K10
C 1901	(A,19,46)	CKSRYB474K10
C 1902	(A,29,54) 22µF/6.3V	CCH1300
C 1903	(A,28,48)	CSZSC101M10
C 1910	(B,10,15)	CKSRYB102K50
C 2001	(A,120,30)	CKSYB106K6R3
C 2002	(A,114,48)	CKSRYB105K10
C 2003	(A,112,49)	CKSSYB103K16
C 2004	(A,110,48)	CKSSYB103K16
C 2005	(A,109,54)	CKSQYB475K10
C 2006	(A,103,54)	CKSSYB103K16
C 2007	(A,96,41)	CKSSYB104K10
C 2008	(A,111,29)	CKSSYB104K10
C 2009	(A,120,43)	CKSSYB473K10
C 2010	(A,118,43)	CKSSYB103K16
C 2011	(A,123,47)	CKSRYB105K10
C 2015	(A,120,44)	CKSSYB473K10
C 2016	(A,118,44)	CKSSYB103K16
C 2017	(A,103,55)	CKSSYB103K16
C 2018	(A,98,20)	CKSRYB104K25
C 2020	(A,105,50)	CKSSYB471K50
C 2021	(A,119,48)	CKSRYB104K25
C 2022	(B,122,30)	CKSRYB104K16

F

Unit Number : CWX2986
Unit Name : PCB Assy

MISCELLANEOUS

VR11	(A,8,10)	Semi-fixed 1kΩ(B)	CCP1442
VR12	(A,9,23)	Semi-fixed 1kΩ(B)	CCP1442
R 11	(A,8,15)		RS1/16S562J
R 12	(A,10,15)		RS1/16S472J
R 13	(A,8,18)		RS1/16S562J
R 14	(A,9,6)		RS1/16S562J

Keyboard Unit
Consists of
Keyboard PCB

Circuit Symbol and No.		Part No.
L PCB		
R PCB		

B G H

Unit Number :
Unit Name : Keyboard Unit

MISCELLANEOUS

IC 801	(B,77,74)	IC	LC75804W
Q 801	(B,201,81)	Transistor	2SA1235A-12
Q 802	(B,201,84)	Transistor	2SA1235A-12
Q 803	(B,20,83)	Transistor	2SA1235A-12
Q 804	(B,20,79)	Transistor	2SA1235A-12
Q 805	(B,62,39)	Transistor	2SA1235A-12
Q 806	(B,157,47)	Transistor	2SA1235A-12
Q 808	(B,157,50)	Transistor	2SA1235A-12
Q 809	(B,20,86)	Transistor	2SA1235A-12
Q 810	(B,201,88)	Transistor	2SA1235A-12
Q 811	(B,58,39)	Transistor	2SA1235A-12
Q 812	(B,84,16)	Transistor	2SA1235A-12
Q 813	(B,139,16)	Transistor	2SA1235A-12
Q 814	(B,173,26)	Transistor	2SA1235A-12
Q 815	(B,166,30)	Transistor	2SC4081
Q 816	(B,46,82)	Transistor	DTC114EU
Q 817	(B,186,95)	Transistor	2SC4081
Q 819	(B,151,79)	Transistor	2SA1037K
Q 820	(B,143,78)	Transistor	DTC143EK
Q 823	(B,151,74)	Transistor	2SA1037K
Q 824	(B,143,74)	Transistor	DTC143EK
Q 825	(B,160,39)	Transistor	2SB1132
Q 826	(B,167,37)	Transistor	2SC4081
D 801	(A,60,55)	LED	NHSB046R8-5293
D 802	(A,80,55)	LED	NHSB046R8-5293
D 803	(A,100,55)	LED	NHSB046R8-5293
D 804	(A,120,55)	LED	NHSB046R8-5293
D 806	(A,160,55)	LED	NHSB046R8-5293
D 807	(A,140,55)	LED	NHSB046R8-5293
D 808	(A,20,99)	LED	NHSB046R8-5291
D 809	(A,14,83)	LED	NHSB046R8-5292
D 810	(A,200,99)	LED	NHSB046R8-5291
D 811	(A,206,83)	LED	NHSB046R8-5292
D 812	(A,59,31)	LED	NHSB046R11-5295
D 813	(A,161,31)	LED	NHSB046R11-5295
D 814	(A,68,17)	LED	NHSB046R8-5294
D 815	(A,96,17)	LED	NHSB046R8-5294
D 816	(A,124,17)	LED	NHSB046R8-5294
D 817	(A,152,17)	LED	NHSB046R8-5294
D 818	(B,169,29)	Diode	UDZS5R1(B)
D 819	(A,40,92)	LED	SML-310DT
D 820	(A,180,92)	LED	SML-310DT
D 821	(A,40,96)	LED	SML-310FC
D 822	(A,180,96)	LED	SML-310FC
D 823	(A,36,77)	LED	NESW017-5248
D 824	(A,36,70)	LED	NESW017-5248
D 825	(A,184,77)	LED	NESW017-5248
D 832	(A,184,70)	LED	NESW017-5248
D 833	(B,54,69)	Diode	HZU4R7(B3)
D 834	(B,59,27)	Diode	1SS355

Circuit Symbol and No.		Part No.
D 835	(B,63,22) Diode	1SS355
D 836	(B,69,22) Diode	1SS355
D 837	(B,155,29) Diode	1SS355
D 838	(B,155,26) Diode	1SS355
D 839	(B,168,42) Diode	1SS355
D 840	(B,66,49) Diode	1SS355
D 841	(B,167,76) Diode	1SS355
D 842	(B,25,92) Diode(FX-MG8667DVZT)	1SS355
D 843	(B,25,90) Diode	1SS355
D 844	(B,66,47) Diode	1SS355
D 845	(B,167,74) Diode	1SS355
D 846	(B,193,87) Diode	1SS355
D 847	(B,25,94) Diode	1SS355
D 848	(B,66,45) Diode	1SS355
D 849	(B,167,72) Diode	1SS355
D 850	(B,193,89) Diode	1SS355
D 980	(A,49,42) LED	NHSB046R8-5292
D 981	(A,26,90) LED	NHSB046R8-5291
D 982	(A,30,72) LED	NHSB046R8-5292
D 983	(A,49,20) LED	NHSB046R8-5292
D 984	(B,22,72) Diode	1SS355
D 985	(B,22,74) Diode	1SS355
D 986	(B,22,76) Diode	1SS355
D 990	(A,30,73) LED	NHSB046R8-5292
D 991	(A,34,90) LED	NHSB046R8-5291
D 992	(A,10,20) LED	NHSB046R8-5292
D 993	(A,10,42) LED	NHSB046R8-5292
D 994	(B,36,69) Diode	1SS355
D 995	(B,36,71) Diode	1SS355
D 996	(B,36,67) Diode	1SS355
L 801	(B,52,64) Inductor	CTF1529
S 980	(A,49,31) Encoder(FX-MG8767DVZT)(POWER VOL)	CSD1133
S 980	(A,49,31) Encoder(FX-MG8667DVZT)(POWER VOL)	CSD1132
S 993	(A,10,31) Encoder(FX-MG8767DVZT)(FILE TUNE)	CSD1132
S 993	(A,10,31) Encoder(FX-MG8667DVZT)(FILE TUNE)	CSD1133
LCD801	(A,63,86) LCD	CAW1867

RESISTORS

R 801	(B,197,82)	RS1/16S391J
R 802	(B,197,85)	RS1/16S821J
R 803	(B,24,82)	RS1/16S391J
R 804	(B,24,78)	RS1/16S821J
R 805	(B,63,43)	RS1/16S391J
R 806	(B,161,46)	RS1/16S391J
R 809	(B,161,49)	RS1/16S391J
R 810	(B,24,85)	RS1/16S391J
R 811	(B,197,89)	RS1/16S391J
R 814	(B,59,43)	RS1/16S391J
R 817	(B,80,17)	RS1/16S391J
R 820	(B,135,17)	RS1/16S391J
R 823	(B,174,29)	RS1/16S331J
R 825	(B,168,27)	RS1/16S561J
R 826	(B,167,34)	RS1/16S271J
R 829	(B,165,34)	RS1/16S223J
R 831	(B,164,31)	RS1/16S472J
R 836	(B,49,81)	RS1/16S222J
R 837	(B,53,31)(FX-MG8767DVZT)	RS1/16S100J
R 838	(B,52,28)(FX-MG8767DVZT)	RS1/16S100J
R 839	(B,51,31)(FX-MG8767DVZT)	RS1/16S100J
R 840	(B,50,28)(FX-MG8767DVZT)	RS1/16S100J
R 841	(B,49,31)(FX-MG8667DVZT)	RS1/16S100J
R 842	(B,48,28)(FX-MG8667DVZT)	RS1/16S100J
R 843	(B,47,31)(FX-MG8667DVZT)	RS1/16S100J
R 844	(B,46,28)(FX-MG8667DVZT)	RS1/16S100J
R 845	(B,190,95)	RS1/16S222J
R 846	(B,189,95)	RS1/16S103J
R 847	(B,154,80)	RS1/10S101J
R 848	(B,156,80)	RS1/10S151J
R 849	(B,186,93)	RS1/16S391J
R 853	(B,146,79)	RS1/16S332J
R 854	(B,147,79)	RS1/16S103J
R 857	(B,154,74)	RS1/10S101J
R 858	(B,156,74)	RS1/10S151J
R 863	(B,146,74)	RS1/16S332J
R 864	(B,53,71)	RS1/16S471J
R 865	(B,147,74)	RS1/16S103J
R 866	(B,61,80)	RS1/16S102J
R 867	(B,61,79)	RS1/16S102J
R 868	(B,61,77)	RS1/16S102J
R 869	(B,61,76)	RS1/16S102J
R 870	(B,61,74)	RS1/16S681J
R 871	(B,65,77)	RS1/16S393J
R 872	(B,136,73)	RS1/16S102J
R 873	(B,136,72)	RS1/16S102J
R 874	(B,136,70)	RS1/16S102J
R 875	(B,136,69)	RS1/16S102J
R 876	(B,145,68)	RS1/16S102J
R 877	(B,145,67)	RS1/16S102J
R 878	(B,145,65)	RS1/16S102J
R 879	(B,145,64)	RS1/16S102J
R 880	(B,145,62)	RS1/16S102J
R 881	(B,145,61)	RS1/16S102J
R 882	(B,45,79)	RS1/10S391J
R 883	(B,43,77)	RS1/10S391J
R 886	(B,45,73)	RS1/10S391J
R 887	(B,43,75)	RS1/10S391J
R 888	(B,174,75)	RS1/10S391J
R 889	(B,179,75)	RS1/10S391J
R 891	(B,174,73)	RS1/10S391J
R 892	(B,179,73)	RS1/10S391J
R 893	(B,57,67)	RS1/16S222J
R 894	(B,166,39)	RS1/16S562J
R 895	(B,56,80)	RS1/16S223J
R 896	(B,56,79)	RS1/16S223J
R 897	(B,56,77)	RS1/16S223J
R 898	(B,171,37)	RS1/16S223J
R 899	(B,164,39)	RS1/16S103J
R 900	(B,163,36)	RS1/16S472J
R 901	(B,57,70)	RS1/16S222J
R 902	(B,60,70)	RS1/16S222J
R 904	(B,60,24)	RS1/16S100J
R 906	(B,63,24)	RS1/16S100J
R 908	(B,159,31)	RS1/16S100J
R 910	(B,159,28)	RS1/16S100J
R 912	(B,197,80)	RS1/16S102J
R 913	(B,197,83)	RS1/16S102J
R 914	(B,24,84)	RS1/16S102J
R 915	(B,24,80)	RS1/16S102J
R 916	(B,61,43)	RS1/16S102J

Circuit Symbol and No.		Part No.
R 917	(B,161,48)	RS1/16S102J
R 918	(B,161,51)	RS1/16S102J
R 919	(B,24,87)	RS1/16S102J
R 920	(B,197,87)	RS1/16S102J
R 921	(B,57,43)	RS1/16S102J
R 922	(B,80,15)	RS1/16S102J
R 923	(B,135,15)	RS1/16S102J

CAPACITORS

C 801	(B,170,27)	CKSRYB473K50
C 802	(B,164,34)	CKSRYB472K50
C 803	(B,170,34)	CKSRYB104K25
C 804	(B,168,34)	CKSRYB104K25
C 809	(B,66,77)	CKSRYB102K50
C 810	(B,61,72)	CKSRYB104K25
C 811	(B,54,67)	CKSRYB104K25
C 812	(B,53,80)	CCSRCH101J50
C 814	(B,53,77)	CCSRCH101J50
C 816	(B,56,74)	CKSRYB103K50
C 817	(B,57,69)	CKSRYB104K25
C 820	(B,169,37)	CKSRYB472K50
C 823	(B,57,72)	CKSRYB104K25
C 980	(B,51,17)	CCSRCH101J50
C 981	(B,48,17)	CCSRCH101J50
C 993	(B,12,18)	CCSRCH101J50
C 994	(B,9,18)	CCSRCH101J50

I

Unit Number : EWM1055
Unit Name : Deck Unit

MISCELLANEOUS

IC 251	IC	HA12216F
IC 351	IC	BA6923FP
Q 271	Transistor	2SC4116
VR301	Semi-fixed 33kΩ(B)	CCP1280
VR302	Semi-fixed 33kΩ(B)	CCP1280

RESISTORS

R 255		RS1/16S181J
R 256		RS1/16S181J
R 257		RS1/16S183J
R 258		RS1/16S183J
R 259		RS1/16S133J
R 260		RS1/16S133J
R 261		RS1/16S274J
R 262		RS1/16S274J
R 271		RS1/16S183J
R 272		RS1/8S0R0J
R 273		RS1/16S0R0J
R 275		RS1/16S473J
R 276		RS1/16S104J
R 277		RS1/16S224J
R 278		RS1/16S104J
R 281		RS1/8S0R0J
R 282		RS1/8S0R0J
R 283		RS1/8S0R0J
R 284		RS1/8S0R0J
R 287		RS1/8S0R0J

Circuit Symbol and No.	Part No.
R 288	RS1/8S0R0J
R 292	RS1/8S0R0J
R 296	RS1/16S0R0J
R 321	RS1/8S0R0J
R 361	RS1/16S0R0J
R 362	RS1/8S301J
R 401	RS1/16S153J
R 402	RS1/16S332J
R 403	RS1/16S911J
R 404	RS1/16S274J

CAPACITORS

C 251	CKSRYB391K50
C 252	CKSRYB391K50
C 253	CKSRYB391K50
C 254	CKSRYB391K50
C 255	CKSRYB103K50
C 256	CKSRYB103K50
C 271	CEH1R0M50
C 272	CKSRYB104K25
C 301	CKSRYB104K25
C 302	CKSRYB104K25
C 309	CKSRYB104K25
C 310	CKSRYB104K25
C 351	CKSQYB224K16
C 352	CKSRYB472K50
C 353	CKSRYB103K50
C 354	CKSRYB103K50
C 355	CKSQYB104K50
C 401	CKSRYB392K50
C 402	CKSRYB334K10
C 403	CKSRYB223K25
C 404	CKSRYB103K50
C 405	CKSRYB333K16

J

Unit Number : EWM1057
Unit Name : Sensor Unit

MISCELLANEOUS

L 101	Inductor	CTF1546
L 102	Inductor	CTF1546
S 101	Switch(LOAD)	ESG1007
S 102	Switch(MODE)	ESG1007
S 103	Switch(70µS)	ESG1007
Q 101	Photo-reflector	EGN1004

Miscellaneous Parts List

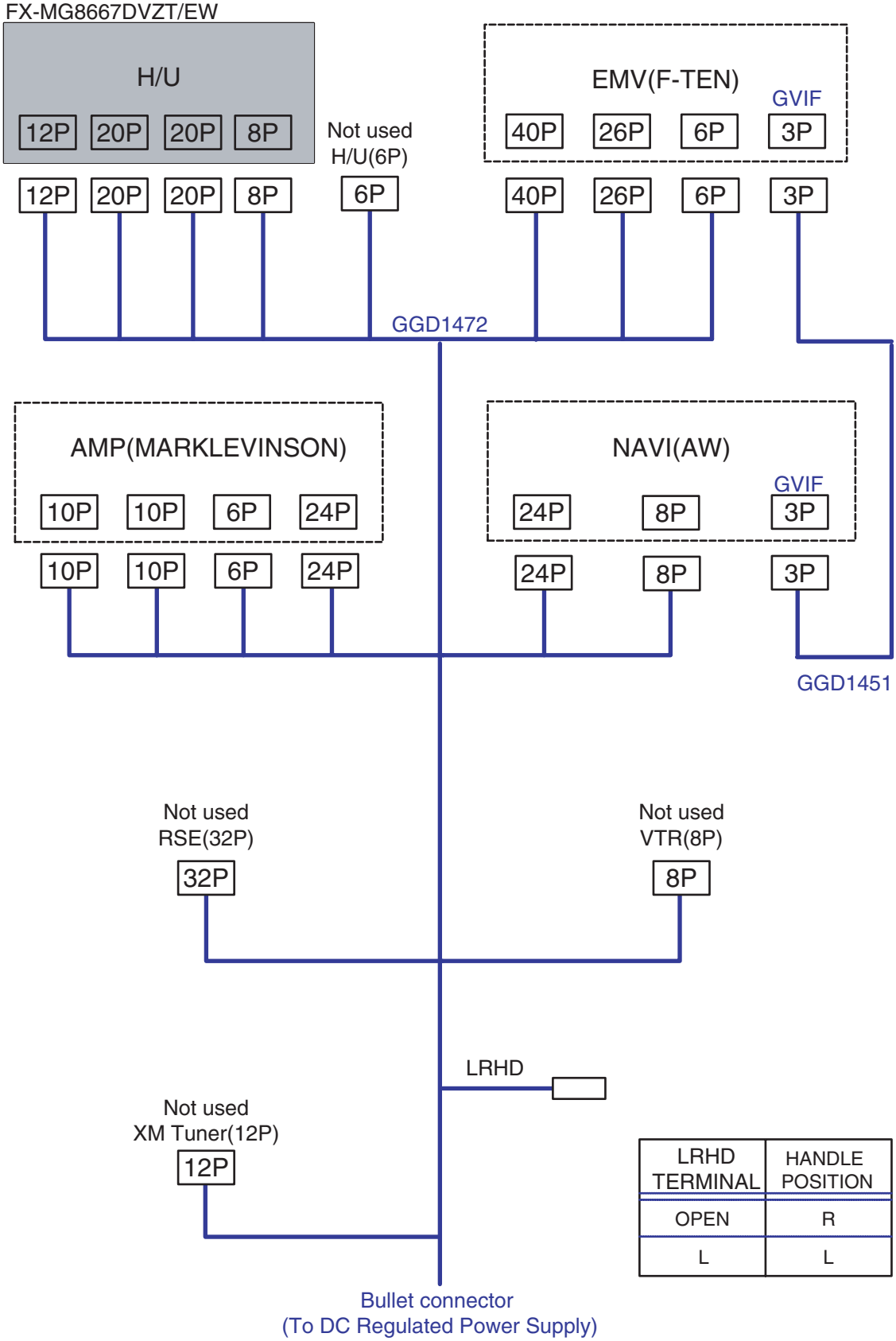
M 1	Motor Unit(MAIN)	EXA1618
M 2	Motor Unit(SUB)	EXA1660
HD1	Head Assy	EXA1594
	Stage Assy(Service)	CXX1957
M 1	Cam Motor Assy	CXC4349
M 2	ELV Motor Assy	CXC4350
VR13	Variable Resistor	CCW1029
M 1001	Fan Motor	CXM1336

6. ADJUSTMENT

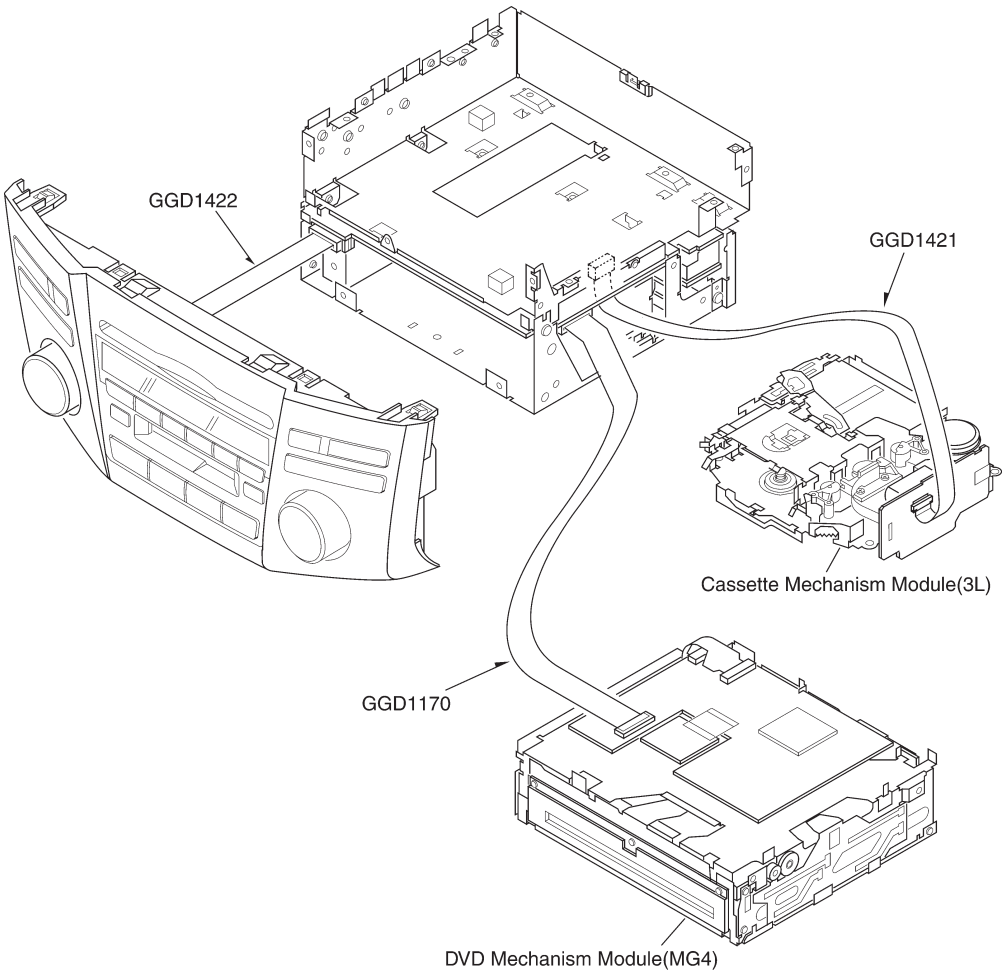
6.1 JIG CONNECTION DIAGRAM

● **Connection Diagram**

FX-MG8767DVZT/EW
FX-MG8667DVZT/EW

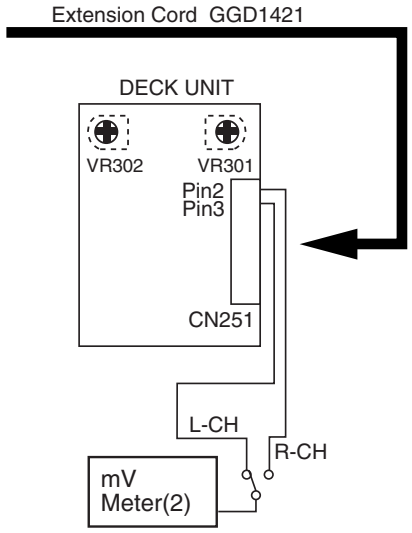


LRHD TERMINAL	HANDLE POSITION
OPEN	R
L	L



Note) Do not insert, reject or change discs when the mechanism is placed upside down.

6.2 DOLBY ADJUSTMENT



DOLBY B NR ADJUSTMENT

No.	Test Tape	Adjustment Point	Adjustment Method (Switch Position)
1	NCT-150 (400Hz, 200nwb/m)	VR301(Lch), VR302(Rch) (DOLBY NR Switch : OFF)	mV Meter(2) : - 8.24dBm ± 1dB

6.3 TEST MODE

● MG4 Test Mode

Note) Mount the MG4 mechanic assembly on FX-MG8567DVZT before performing this test mode.

1. System Configuration

◆ System with Step-1 Master

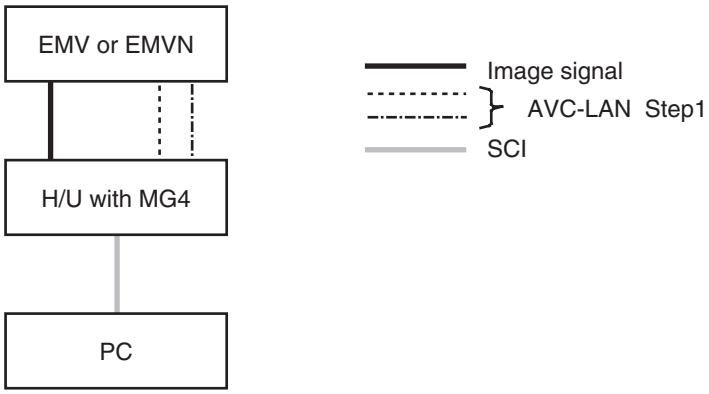
1	Step-1 Master	EMV, EMVN
2	Target Device	H/U with MG4
3	Periphery Equipment	PC, power supply, serial cable, etc.

◆ System without Step-1 Master (H/U unit operation)

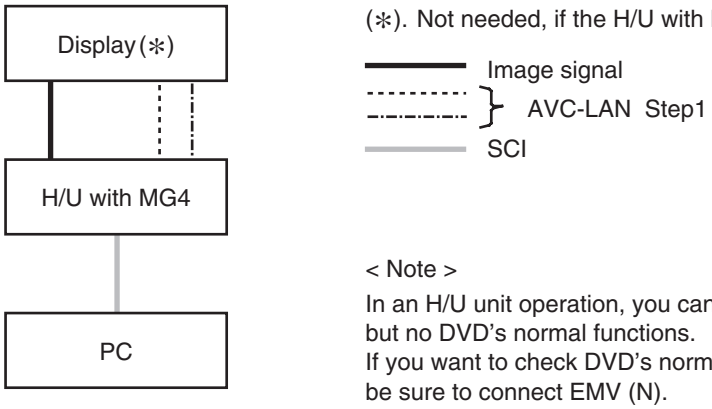
1	Display	Not needed, if the H/U has an LCD
2	Target Device	H/U with MG4
3	Periphery Equipment	PC, power supply, serial cable, etc.

2. System Configuration Scheme

◆ System with Step-1 Master



◆ System without Step-1 Master (H/U unit operation)



(*). Not needed, if the H/U with MG4 has an LCD.

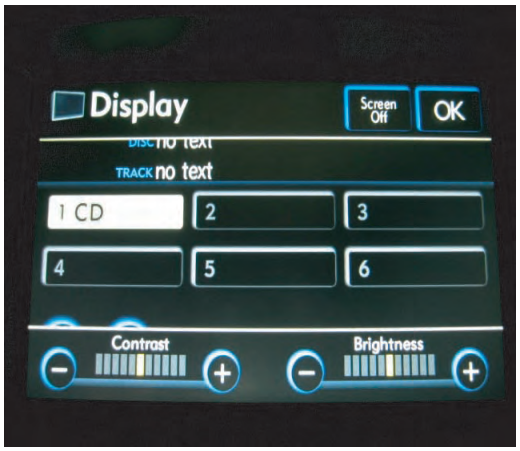
< Note >
In an H/U unit operation, you can operate MG4 test mode functions, but no DVD's normal functions.
If you want to check DVD's normal function operation, be sure to connect EMV (N).

3. DIAG Mode

For implementation of the test mode for MG4 service, you have to go to the DIAG Mode .
We explain below how to go to DIAG Mode .

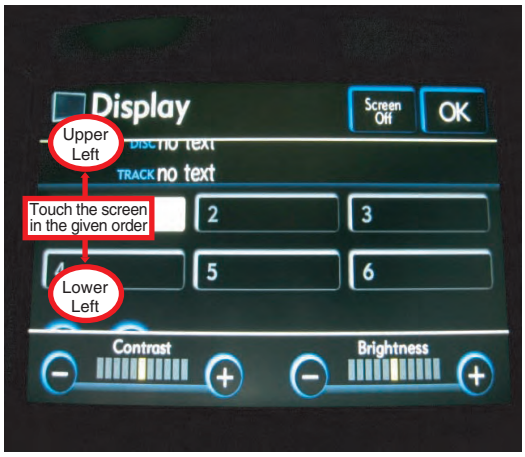
3-1. System with Step-1 Master

① Press Image Quality / Erase button of the Master (EMV (N)) to display the Image Quality Adjustment Screen (see the picture below).



Note) This screen is different from the actual screen.
Manipulate in accordance with your screen.

② Touch inside of the framework on the Image Quality Adjustment Screen in the following order:
Upper Left → Lower Left → Upper Left → Lower Left → Upper Left → Lower Left (see the picture below).



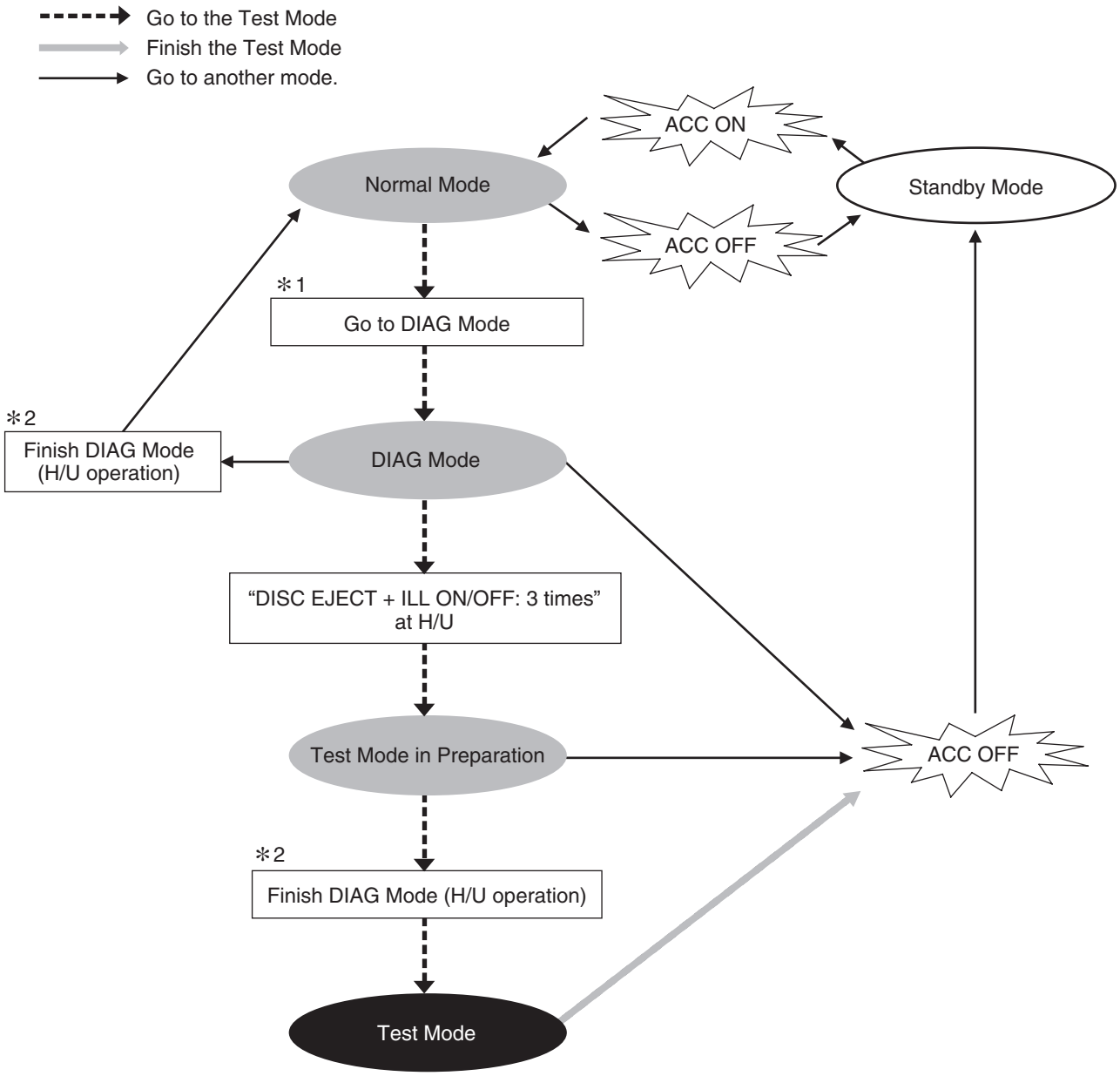
③ To finish DIAG Mode, press and hold the Image Quality / Erase button for 2 seconds.
Or, turn off the ACC.

3-2. System without Step-1 Master (H/U unit operation)

① Press the DISC button three times, while holding the 1 and 6 buttons (see the picture below).

② To finish DIAG Mode, press and hold the DISC button for 2 seconds.
Or, turn off the ACC.

4. Operation Specification



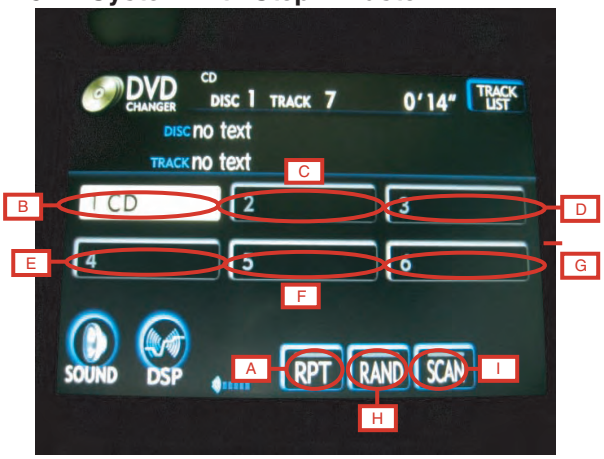
＊1. For operation of “Go to DIAG Mode”, see “3. DIAG Mode”.

＊2. For operation to finish DIAG Mode, see “3. DIAG Mode”.

5. Operation Buttons

In the Test Mode for service of MG4, the following buttons are used for implementation of different tests.

5-1. System with Step-1 Master



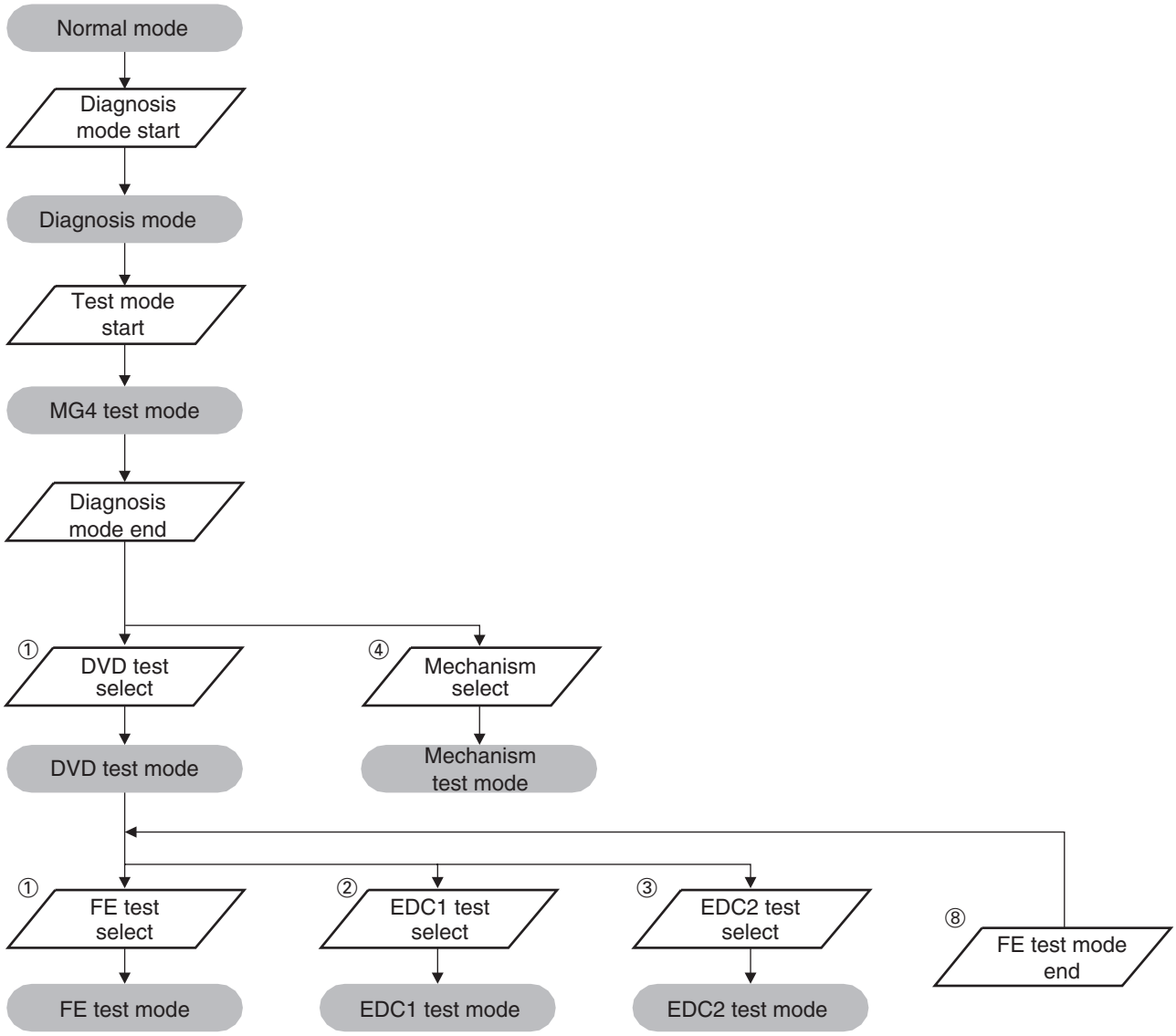
Note) This screen is different from the actual screen.
Manipulate in accordance with your screen.

Drawing No.	Button	Application
A	RPT	Command for Test Mode: EJECT
B	DISC1	Command for Test Mode: ①
C	DISC2	Command for Test Mode: ②
D	DISC3	Command for Test Mode: ③
E	DISC4	Command for Test Mode: ④
F	DISC5	Command for Test Mode: ⑤
G	DISC6	Command for Test Mode: ⑥
H	RAND	Command for Test Mode: ⑦
I	SCAN	Command for Test Mode: ⑧
—		reserve
—	--	Command for Test Mode: NULL

5-2. System without Step-1 Master (H/U unit operation)

Drawing No.	Button	Application
A	TEXT	Command for Test Mode: EJECT
B	1	Command for Test Mode: ①
C	2	Command for Test Mode: ②
D	3	Command for Test Mode: ③
E	4	Command for Test Mode: ④
F	5	Command for Test Mode: ⑤
G	6	Command for Test Mode: ⑥
H	TRACK UP	Command for Test Mode: ⑦
I	TRACK DOWN	Command for Test Mode: ⑧
—		reserve
—	--	Command for Test Mode: NULL

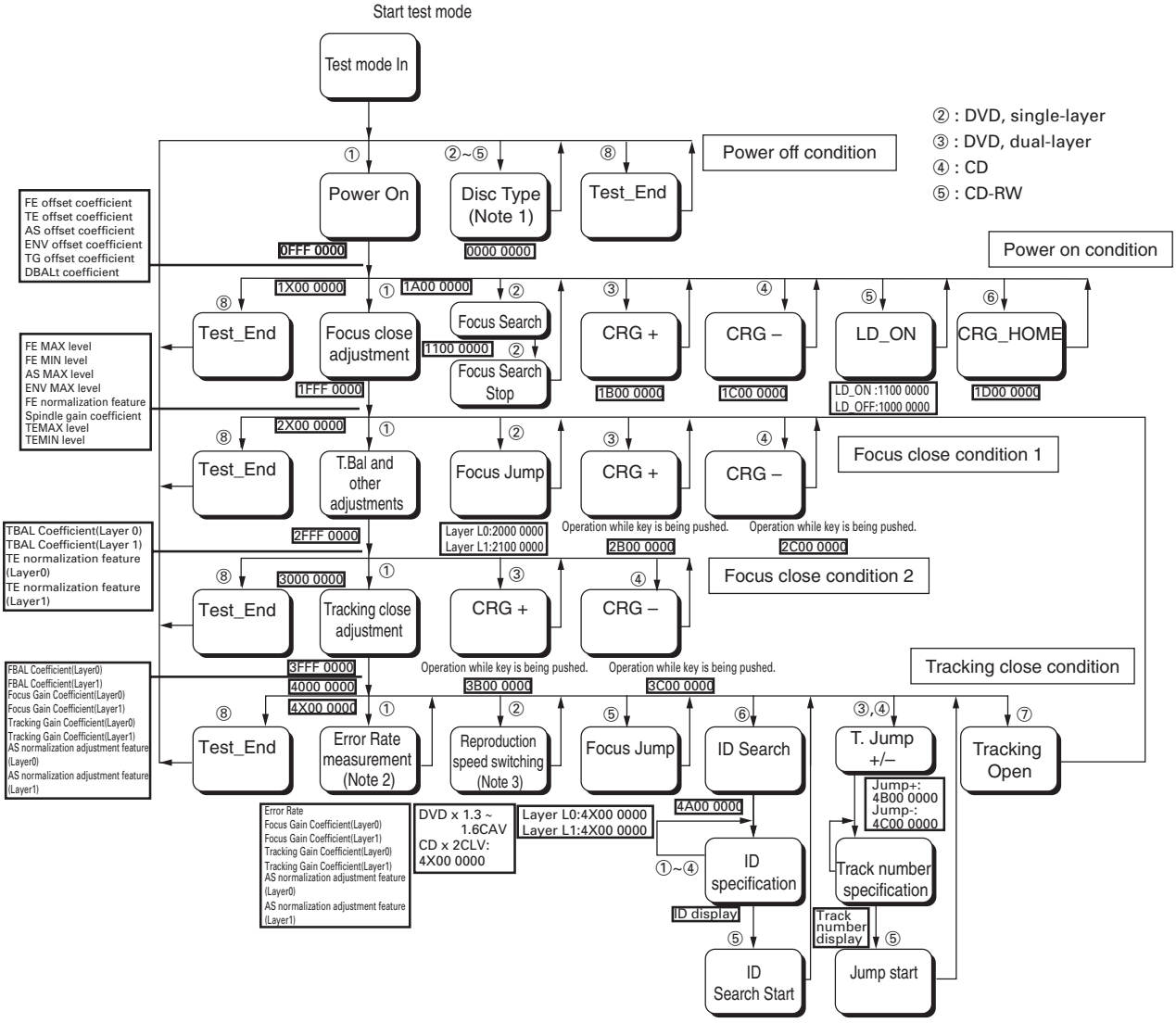
TEST MODE

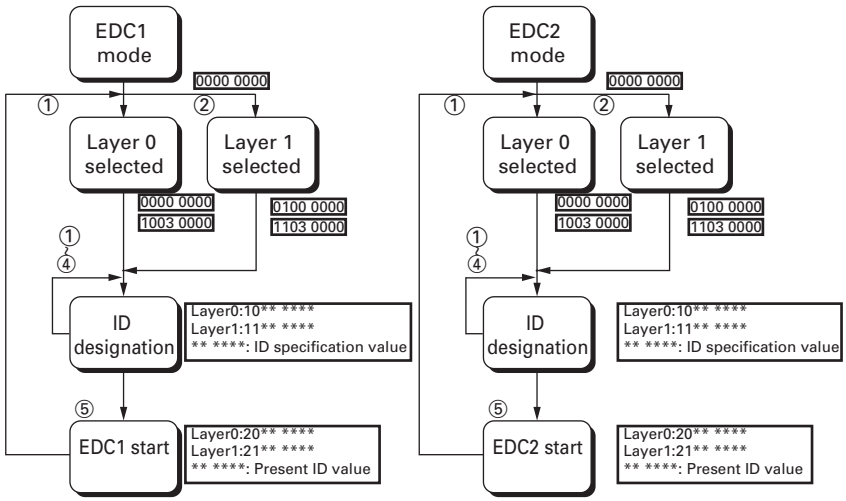


Note)When you turn off Acc in a static test mode,
please be sure to check that the mechanism has stopped.

● Front-End test mode flow chart

Note 1: At this stage select the media type. Various settings are carried out according to the media selection made here.
Note 2: While measurements are being taken, only the operation, for which the measurement is being taken, is allowed.
Note 3: Reproduction (play) speed is selectable from
DVD : x1.3 1.6CAV,CD : x 4CLV Fixation
Note 4: Gain change: Normal gain -> OEIC=H -> OEIC=H and FEP x 4 AMP ON





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 ③, and the decision is finalized (entered) in step ④.

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 ① and ②. Numerical UP/DOWN operations are performed through commands ③ and ④. The decision is finalized (entered) with command ⑤.

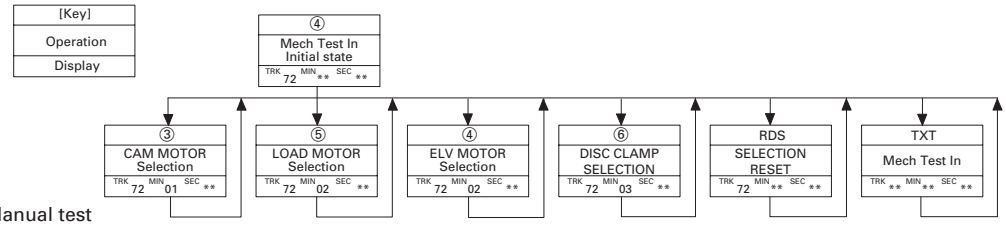
Display

Error Code List

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

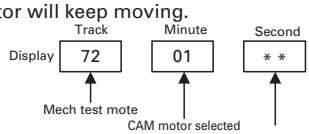
Error code of read error(Part of XX)

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	RecaveryNG(BE)	DVD is stopping because mechanism detected abnormality
0X9C	Play state error	
0X9D	Disc data error	
0X9E	Serface error (Disc distinction is improper)	

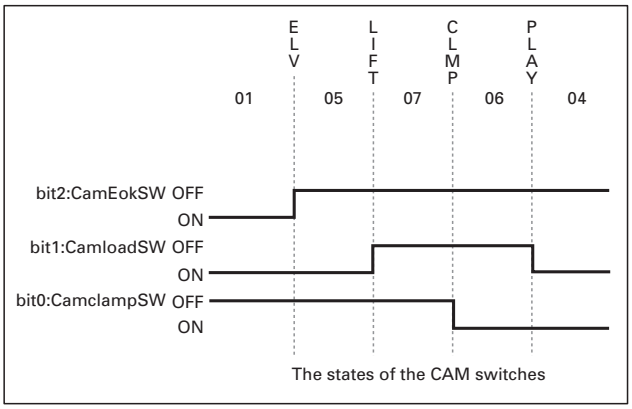


Manual test

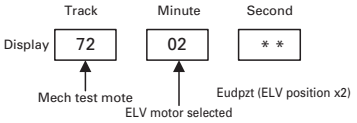
Select the motor you desire to move by using one of the following four keys: ① and ②.
After selecting the motor, use the SEEK UP or SEEK DOWN key tomove the selected motor.
While the key is being pressed, the motor will keep moving.



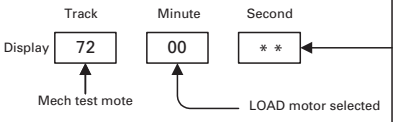
1. To select the CAM motor, press the ③key.

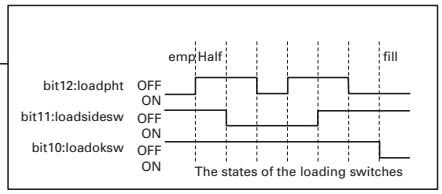


2. To select the ELV motor, press the ④ key.



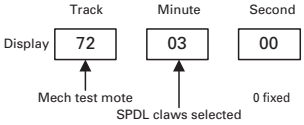
3. To select the LOAD motor, press the ⑤key. (Default)





4. To select the SPDL claws, press the ⑥ key.
Caution: SPDL claw test should be performed in the servo test mode. The SPDL claws are controlled by the servo systems and the switches conditions cannot be checked in the mechanical test mode.

To open the claws, use the ① key.
To close the claws, use the ② key.



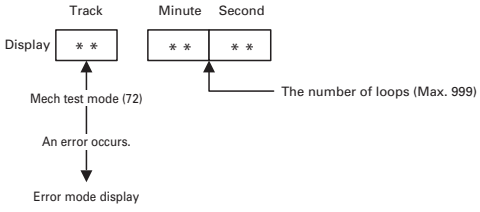
Durability test

1. LOAD durability test (Load <-> Eject)
At the door open position (disc insertion/eject position), insert a disc and to durability test.

2. CAM durability test (Play <-> ELVOK)
At any position between CAM4P and CAM5P (display: 06, 04), to durability test.

3. LIFT durability test (Current disc <-> Door Open)
At any position between CAM2P and CAM3P (display: 05, 07), to durability test.

4. ELV durability test (ELV1F <-> 6F)
At the CAM1P position (display: 01), to durability test.



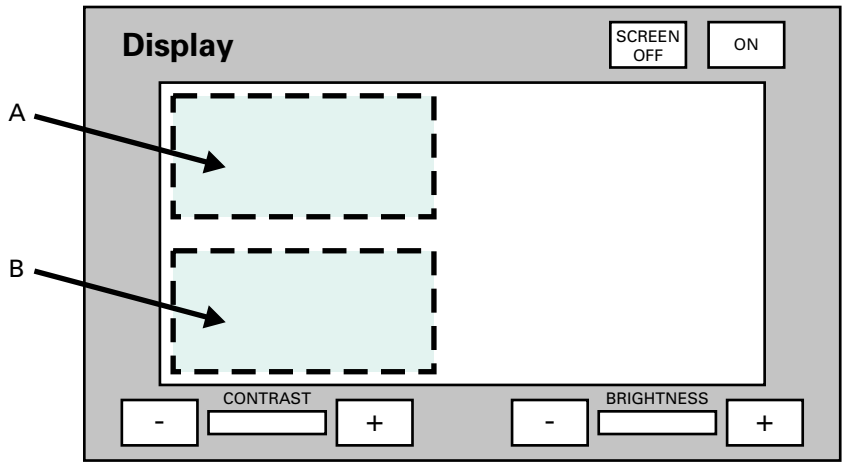
7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 AVC-LAN DIAGNOSIS MODE

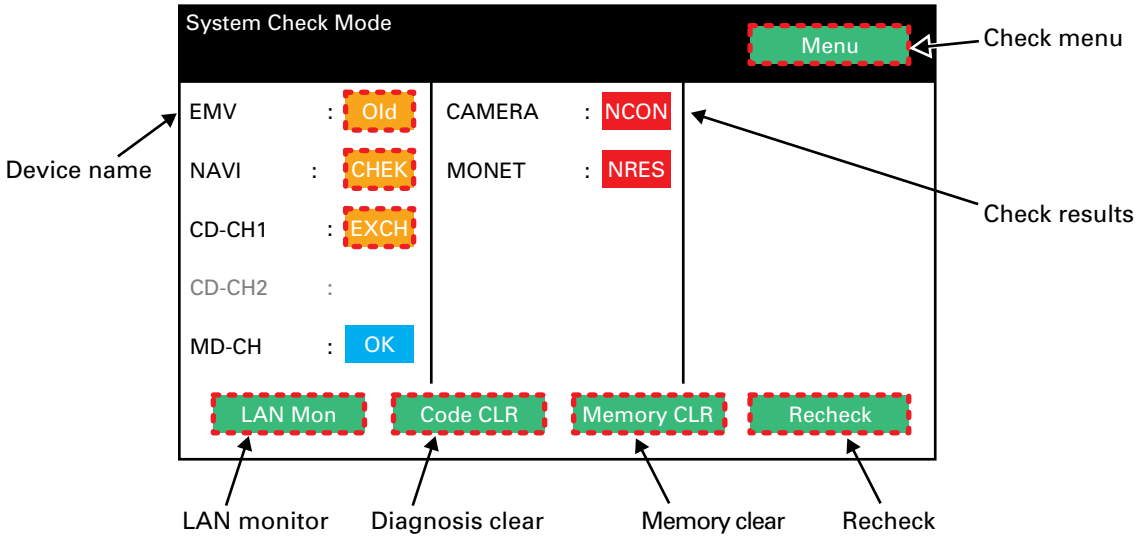
● SYSTEM WITH EMV

1. To Service Check



1. Press [OPTION] key of EMV .
2. Press [DISPLAY] key of EMV .
3. The position of A and B is order of pushed 6 times in A,B,A,B,A and B.
   ->Service Check screen is displayed.

2. Service Check



->As it is, it waits for a while.
(In general less than 1 minute)

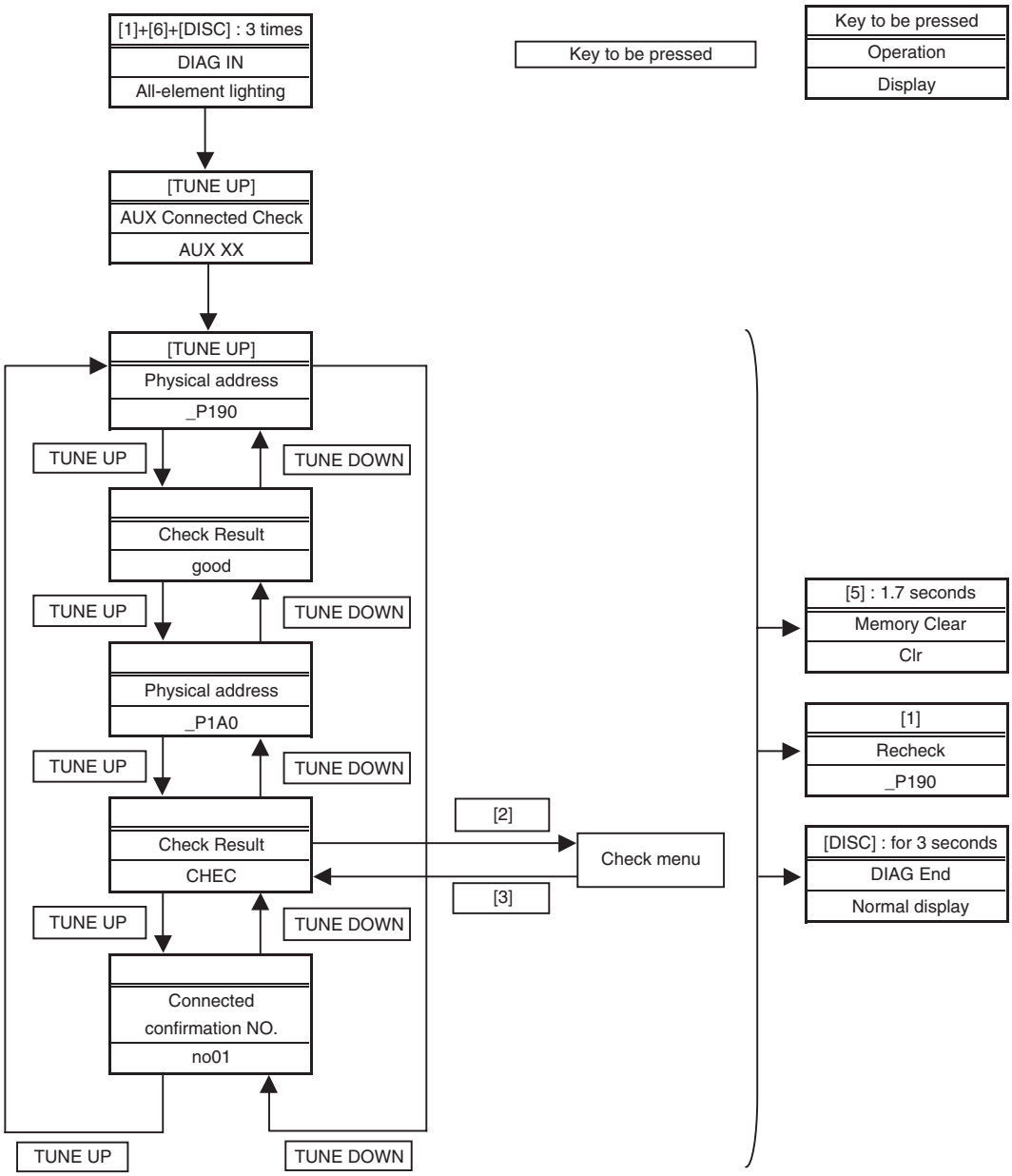
Inspection result list

OK	No problem
EXCH	Exchange
CHEK	Check(diagnosis recorded)
NCON	Not connected
NRES	No response
Old	Old version

3. How to exit from the diagnostic test mode

Turn off the ACC.

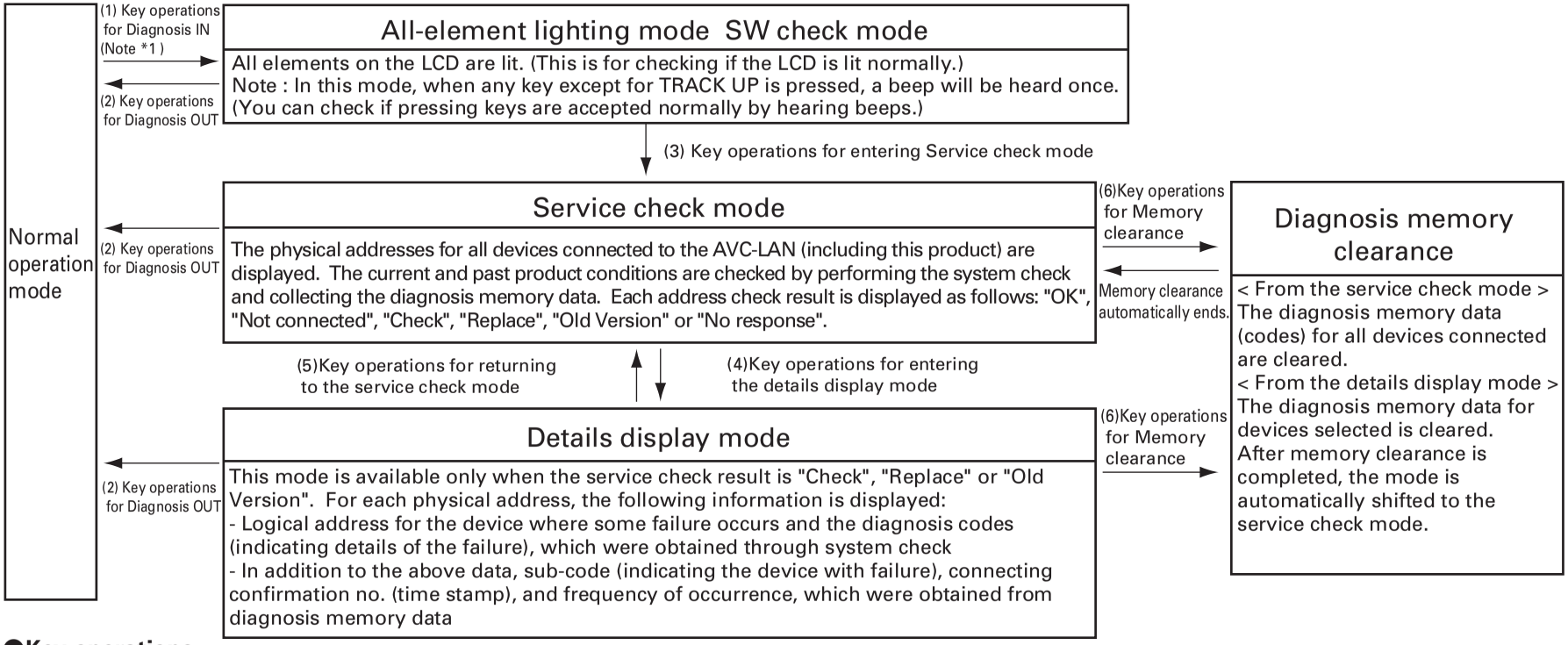
● SYSTEM WITHOUT EMV



Key operations

(1) Diagnosis IN With three times of beep sound, the mode change operation completes.	While pressing the CH1 and CH6 buttons simultaneously, press the DISC button three times.
(2) Diagnosis OUT	Keep the DISC button pressed for 1.7 seconds or more and turn the ACC switch OFF.
(3) Entering the Service check mode. With a beep sound, the mode change completes.	Press the TUNE UP button.
(4) Entering the Derails display mode.	Press the CH2 button.
(5) Returning to the service check mode.	Press the CH3 button.
(6)Clearing the Memory data	Keep the CH5 button pressed for 1.7 seconds or more.
Change the display (forward)	Press the TUNE-UP button.
Change the display (backward)	Press the TUNE-DOWN button.

●Operations and functions



●Key operations

(1) Diagnosis IN With three times of beep sound, the mode change operation completes.	While pressing the CH1 and CH6 buttons simultaneously, press the DISC button three times.
(2) Diagnosis OUT	Keep the DISC button pressed for 1.7 seconds or more and turn the ACC switch OFF.
(3) Entering the Service check mode. With a beep sound, the mode change completes.	Press the TRACK UP button.
(4) Entering the Details display mode.	Press the CH2 button.
(5) Returning to the service check mode.	Press the CH3 button.
(6)Clearing the Memory data	Keep the CH5 button pressed for 1.7 seconds or more.
Change the display (forward)	Press the TRACK UP button.
Change the display (backward)	Press the TRACK DOWN button.

Note *1: To enter the diagnosis IN mode, use the buttons on the head unit.

●Diagnosis mode display

Service check mode

After system check completes, the check results for the devices connected to the AVC-LAN are displayed in turn in order of physical address number as follows:

◆"Physical address"
...The smallest physical address number is displayed first, whose check result will follow it.

Ex. P190
- P190: The physical address is displayed.
- 90: Physical address number (radio cassette)

◆"Check result"
...The check result is displayed.

Ex.
- good Normal (OK)
- ECHn Replace
- CHEC Check
- OLd Old Version

(ECHn, CHEC, OLd → Details display mode)

◆"Physical address"
...The next physical address number is displayed.

◆"Connecting confirmation no. (current)"
...The AVC-LAN time stamp is displayed.

Ex. no01
- no: The connecting confirmation number is displayed.
- 01: The current connecting confirmation number (expressed in the hexadecimal number system by using 00 to FF)

The number increases by one each time one minute passes. When 256 minutes pass, the indication returns to 00.

Details display mode (only in case of "Replace", "Check", or "Old Version")

This mode is available only when the service check result is "Replace", "Check" or "Old Version".
To select this mode, press the CH2 key.

◆"Physical address (for selected devices)"
The physical address number is displayed, whose check result details will follow it.

Ex. _ P360
- P360: Physical address number (CD-CH)

◆"Diagnosis data source"
The detailed items depend on the data source.

Ex. SyS The data was obtained from system check.

◆"Logical address"
The logical address number for the device with failure is displayed.

Ex. 1L_63
- 1L: The logical address is displayed.
- _: Serial number
- 63: Logical address number (CD-CH)

◆"Diagnosis code"
The diagnosis code indicates what problem occurs.

Ex. 1d_45
- 1d: The diagnosis code is displayed.
- _: Diagnosis code (abnormal EJECT)
- 45: Diagnosis code (abnormal EJECT)

If there are two or more diagnosis codes, the diagnosis data display will continue.

Ex. COdE The data was obtained from diagnosis memory data.

◆"Logical address"...The same as that for the SyS data
◆"Diagnosis code"...The same as that for the SyS data
◆"Sub code"...This code indicates the device with failure.

Ex. 1P_190
- 1P: The sub code is displayed.
- _: The sub code is displayed.
- 190: The sub code is displayed.

◆"Connecting confirmation number (when some failure occurs)"... AVC-LAN time stamp

Ex. no01
- no: The connecting confirmation number is displayed.
- 01: The connecting confirmation number (expressed in the hexadecimal number system by using 00 to FF)

◆"Frequency of occurrence"
...The frequency of failures occurred

Ex. 1c_15
- 1c: The frequency of occurrence is displayed.
- _: The frequency of occurrence is displayed.
- 15: The frequency of occurrence expressed in the decimal number system.

Physical address allocation

① 1	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	M.DISP computer	New EMV	New device with AV	New MM ECU	device with AV				Audio ECU (RSA-L)	Audio H/U	DVD-P	Rear TV	Rear Control SW	Multi-CD decoder	CD-CH commander	AMP controlled radio tuner
1																XM radio tuner
2													Europe GW ECU			SIRIUS radio tuner
4					G-BOOK							1-DIN Navigation	Consolidated inside panel	Simple LCD	Consolidated SW	RSA-M
6													Gateway ECU			RSE-M
8			New 1-DIN TV		Europe navigation DISP.M/U		Rear TV with movie mode	Navigation with controls				DISPLAY with SW	FM multiplex DISPLAY	Fr controlled SW	MD-CH commander	
C							RES-L1	MONET ECU			Camera with controls		Steering SW	Navigation remote controller	Body computer	
D							RES-L2	Overseas TEL ECU								
E								Vehicle Information ECU								
1,3,5,7, 9-B,D,F																

Display
P①②③
Ex.P190
Physical address

① 2	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	Navigation computer	ATIS	VICS	TV tuner	H/W CD-CH	H/W DVD-CH	TEL information ECU		Camera controller							
8				DTV tuner		DVD deck										
1-7, 9-F																

① 3	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	Radio		Cassette	Radio cassette with no CH controller	CD-P		1DIN CD-CH		MD-P		MD-CH		DAT		DCC	
8																TEL ECU
1-7, 9-F																

① 4	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	Equalizer				DSP				H/W AMP							
1-F																

① 5	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	GPS receiver	ATIS decoder	FM multiplex decoder	ETC	CD-CH		MD-CH		CD-ROM -CH		MD-ROM -CH		TEL information			
8			Radio wave beacon										May Day			
C			Optical beacon													
1-7,9-8,D-F																

① 6	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	A/C computer								Body computer							
1-F																

Diagnosis code table

Logical address name	Logical address	Diagnosis code	Diagnosis details
Communi -cation control	01H	00	No diagnosis
		01	Abnormal reset
		10	Abnormal +B
		11	Abnormal ACC
		12	Abnormal MUTE
		13	Fuse broken
		20	Microcomputer - abnormal
		21	ROM - abnormal
		22	RAM - abnormal
		23	Bus - abnormal
		24	F-ROM - abnormal
		25	V-RAM - abnormal
		26	Gate allay abnormal
		27	Paint controller abnormal
		28	Backup memory abnormal
		29	Voice output controller abnormal
		2A	Internal power supply abnormal
		30	Sync signal abnormal (input)
		31	Sync signal abnormal (output)
		D0	ECU not connected
		D1	Transmission abnormal
		D2	Connecting confirmation: abnormal
		D4	Connecting confirmation: no response
		D5	Registered device data missing (History of registered devices)
		D6	Master unavailable
		D7	Connecting confirmation: abnormal
		D8	Connecting confirmation: no response
		D9	Last mode abnormal
		DA	Command/order: no response
		DB	Mode status abnormal
		DC	Transmission fault
		DD	Master reset
		DE	Slave reset
		DF	Master abnormal
		E0	Registration completion acknowledgement error
		E1	Voice processor ON abnormal
		E2	ON/OFF command or parameter abnormal
		E3	Registration command transmission
		E4	Multiple frames intermit.
		FF	Diagnosis - no response

Logical address name	Logical address	Diagnosis code	Diagnosis details
Radio	60H	10	AM tuner PLL unlocked
		11	FM tuner PLL unlocked
		40	No antenna connected
		41	Antenna power supply abnormal
		42	Tuner power supply abnormal
		43	AM tuner abnormal
		44	FM tuner abnormal
		45	SW tuner abnormal
TV tuner	40H	10	TV tuner PLL unlocked
		11	FRONTEND abnormal
		40	TV divergence shifting error
		41	TV – no reception
		42	VNR screen error
		43	No antenna connected
		44	Antenna power supply abnormal
		45	SEL +B current – small
		46	SEL +B current – large
Cassette tape	61H	10	Belt broken
		40	Mechanical failure or cassette broken
		41	EJECT failure
		42	TAPE jamming
		43	Dirty head
		44	Mech power supply abnormal
CD CD-P CD-CH	43H 62H 63H	10	CD Mech abnormal
		11	CD loading/unloading abnormal
		12	CD lead-in abnormal
		40	No disc loaded
		41	Incorrect disc
		42	Disc unreadable
		43	CD-ROM abnormal
		44	CD abnormal
		45	EJECT abnormal
		46	Scratches or non-recorded side
		47	CD high temperature detected
		48	Excessive current detected
		50	Tray IN/OUT abnormal
		51	Elevator abnormal
		52	Clamp abnormal
MD MD-CH	64H 65H	10	MD mech abnormal
		11	MD IN/OUT abnormal
		12	MD lead-in abnormal
		40	No disc loaded
		41	Incorrect disc
		42	Disc unreadable
		43	MD-ROM abnormal
		44	MD abnormal
		45	EJECT error
		46	Scratches or non-recorded side
		47	MD high temperature detected
		48	Excessive current detected
		50	Tray IN/OUT abnormal
		51	Elevator abnormal
		52	Clamp abnormal

Logical address name	Logical address	Diagnosis code	Diagnosis details
Navigation /GPS	58H 80H	10	Gyroscope abnormal
		11	GPS receiver abnormal
		12	RTC abnormal
		13	SS section abnormal
		14	No Time updating
		15	TCXO abnormal
		16	PLL lock abnormal
		40	GPS antenna abnormal
		41	GPS antenna power supply abnormal
		42	Map disc reading abnormal
		43	SPD signal abnormal
		44	Player abnormal
		45	High temperature abnormal
FM multiplex (VICS), radio wave beacon, beacon, optical beacon, FM multiplex (data), and FM multiplex tuner	5AH 84H 5BH 83H 82H 9AH	41	Antenna power supply abnormal
		45	Radio wave beacon - no antenna connected
		46	Optical beacon - no antenna connected
		47	No FM antenna connected
		4A	FM receiver abnormal
		4B	Radio wave beacon abnormal
		4C	Optical beacon abnormal
Voice control	85H	40	Voice-control activation SW abnormal
		41	Voice-control Microphone abnormal
Extended communi -cation	02H	40	Multi-CD-CH (optical cable) abnormal
		41	Multi-CD-CH (optical cable) not connected
		42	Multi-CD-CH (CarNet) abnormal
		43	Multi-CD-CH (CarNet) not connected
		50	HIT64 communication not connected
		51	HIT64 communication abnormal
		52	HIT64 BRQ disconnection
		53	HIT64 BRQ short-circuit
		54	HIT64 disconnection
		55	CarNet communication not connected
		56	CarNet communication abnormal
		57	CarNet periodical communication abnormal
Information display/front monitors	32H 34H	10	Video circuit abnormal
		11	Back light abnormal (with no current)
		12	Back light abnormal (with excessive current)
		13	Panel open/close mechanical operation abnormal
		40	Front seat monitor abnormal
		41	Heater abnormal
SW, Audio SW, SW shifting, Command SW	21H 23H 24H 25H	10	Panel SW abnormal
		11	Touch SW failure
XM tuner	C0H	11	PLL Unlock
		12	CODEC Communication Error
		13	SSDEC Communication Error
		14	SSDEC No Response Error
		15	NVM Error
		16	CAP Error
		40	ANTENNA No Contact
		41	ANTENNA Short

Diagnosis code table

Logical address name	Logical address	Diagnosis code	Diagnosis details
XM	C0H	11	PLL unlocked
		12	CDEC communication error
		13	SSDEC communication error
		14	SSDEC no response
		15	NVM error
		16	CAP error
		40	No antenna connected
		41	Antenna short-circuited
DVD-CH	45H	42	Disc unreadable
		44	DVD abnormal
		45	EJECT abnormal
		46	Scratches or non-recorded side
		47	DVD high temperature detected
		48	Excessive current detected
		50	Tray IN/OUT abnormal
		51	Elevator abnormal

7.1.2 DISASSEMBLY

● Removing the Case (not shown)

1. Remove the four screws and then remove the Case.

● Removing the Grille Assy (Fig.1)

1 Remove the four screws and then remove the Grille Assy.

Fig.1

● Removing the Frame Unit (Fig.2)

1 Remove the five screws and then remove the Frame Unit.

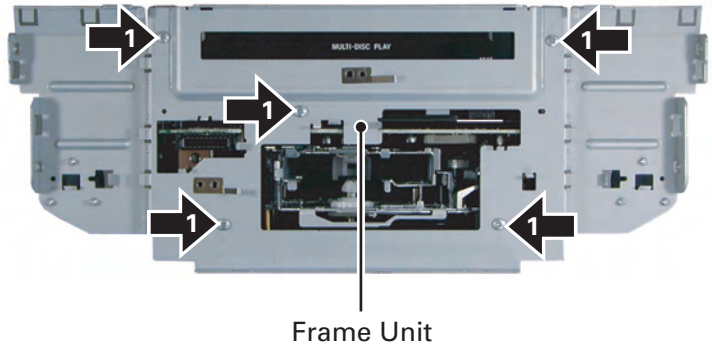


Fig.2

● Removing the Holder (Fig.3)

1 Remove the six screws and then remove the Holder.

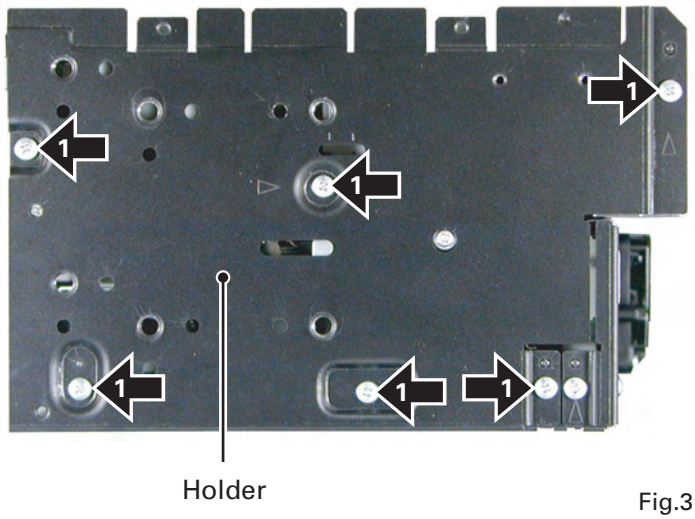


Fig.3

● Removing the Holder (Fig.4)

1 Remove the screw and then remove the Holder.

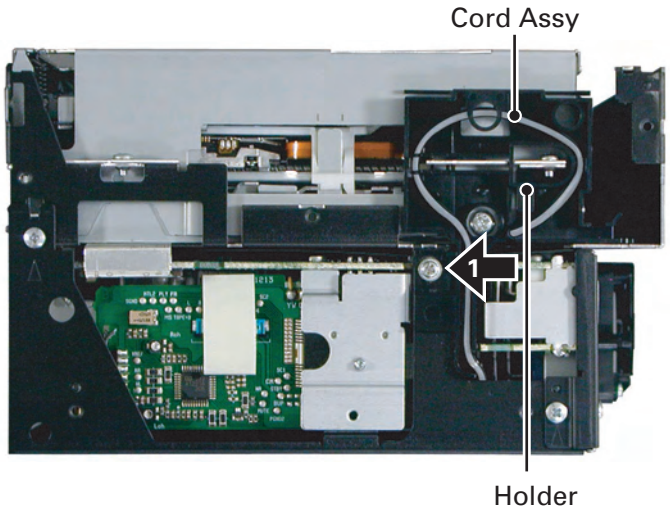


Fig.4

● Removing the DVD Mechanism Module (Fig.5)

1 Remove the four screws.

Disconnect the connector and then remove the DVD Mechanism Module.

NOTE:
Take care not to engage code when wire-processing the digital connecting code of DVD mechanism during assembly.

(* For service use, this specification has a long code for detachable MG4-mechanism part enabling resin parts wire-processed between the Holder.)

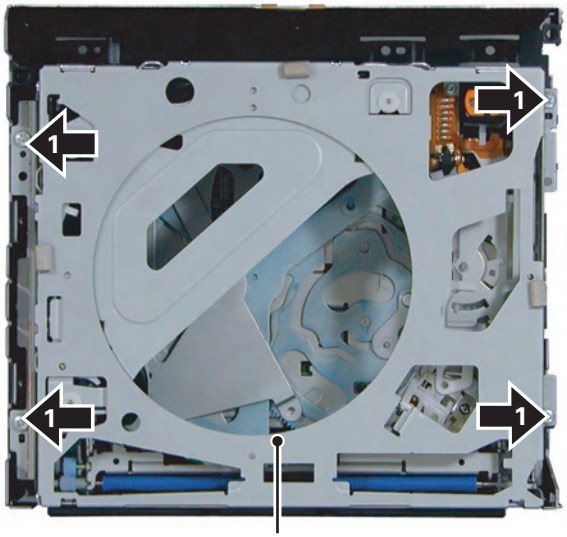


Fig.5

● Removing the Holder (Fig.6)

1 Remove the four screws and then remove the Holder.

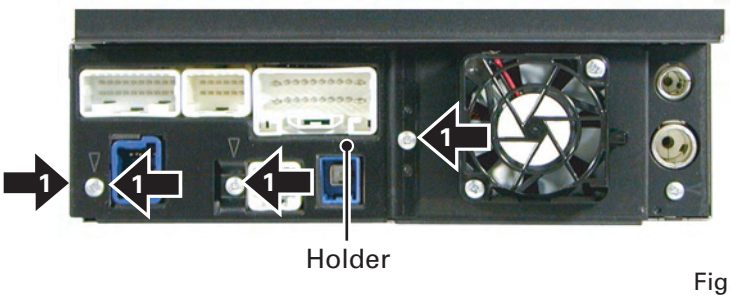


Fig.6

● Removing the Chassis Unit (Fig.7)

1 Remove the four screws and then remove the Chassis Unit.

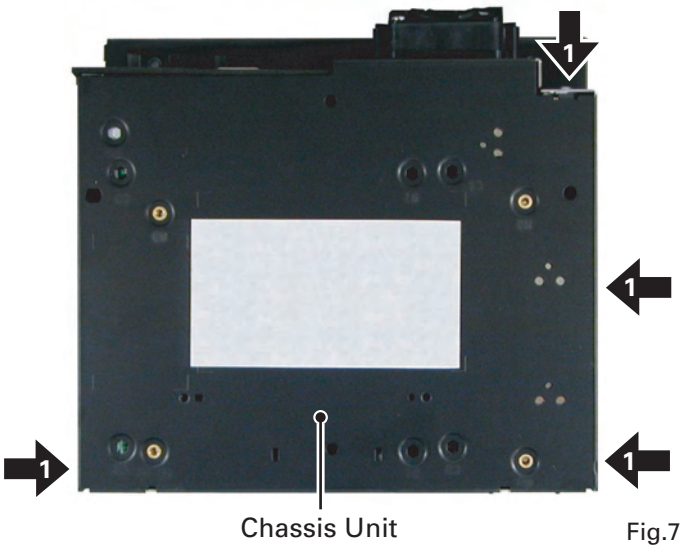


Fig.7

● Removing the Cassette Mechanism Module (Fig.8)

1 Remove the four screws and then remove the Cassette Mechanism Module.

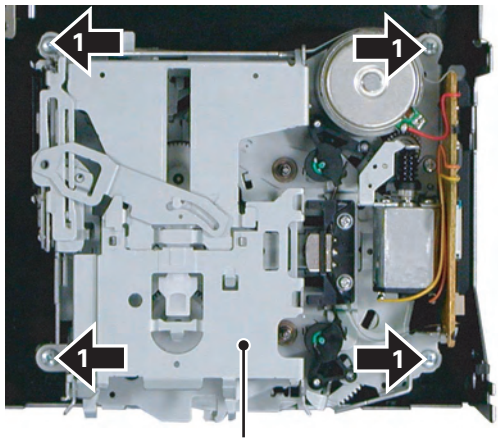


Fig.8

● Removing the Main Unit (Fig.9)

1 Straighten the tabs at three locations indicated.

2 Remove the two screws and then remove the Main Unit.

The Main Unit may appear slightly different to the unit at right.

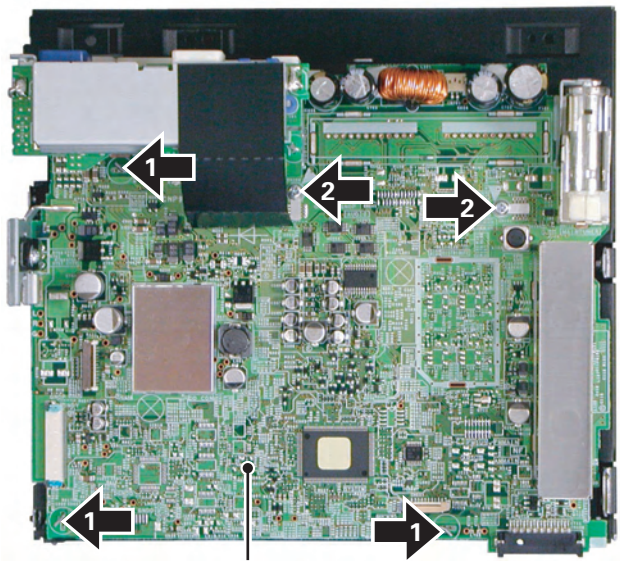
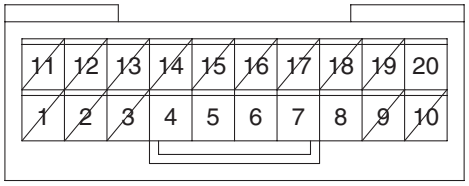


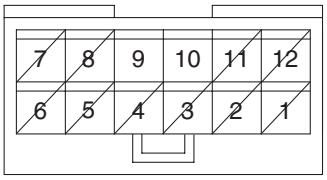
Fig.9

* Please refer to Mechanism Manual (CRT3495) for removing module part of DVD mechanism.
Three GGF1538 are necessary to build up MG4 mechanism.

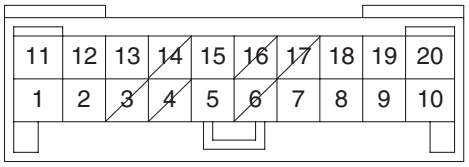
7.1.3 CONNECTOR FUNCTION DESCRIPTION



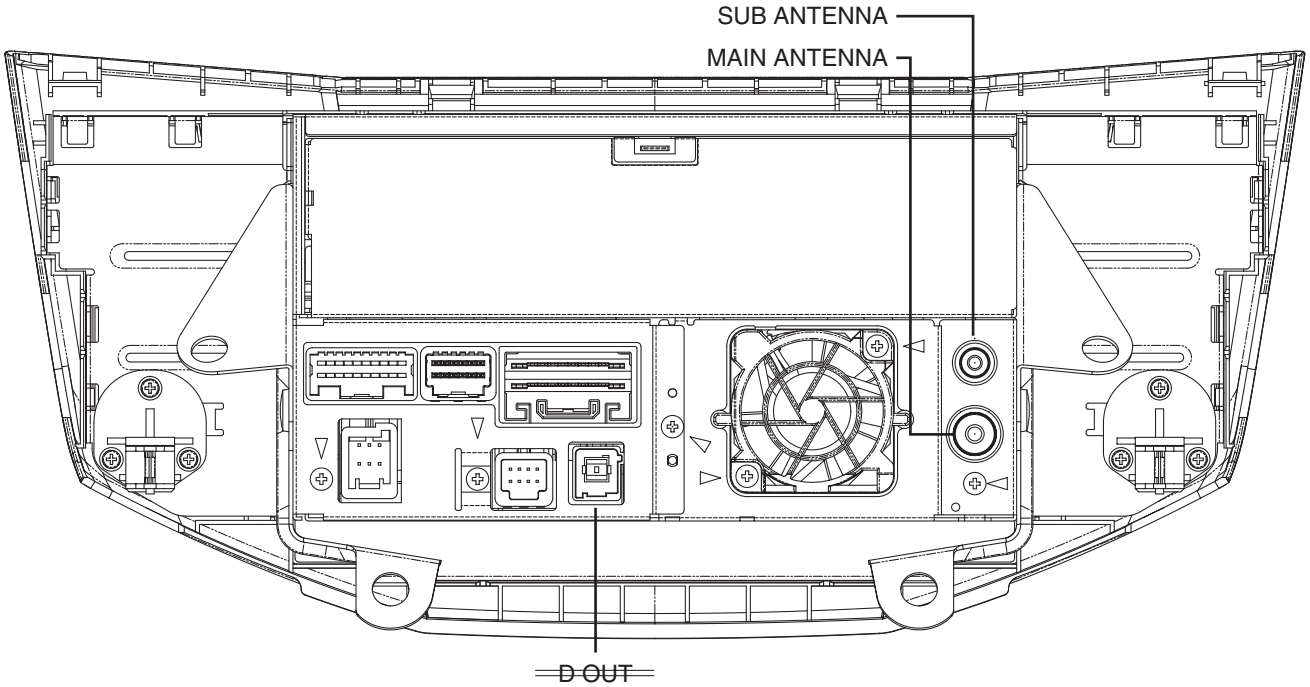
1 : I02+	11 : I01+
2 : I02-	12 : I01-
3 : MTOR	13 : SLD1
4 : CMP+	14 : RSLD
5 : CMP-	15 : R-R+/ARI
6 : SWG	16 : R-R-/ASGN
7 : SW1	17 : R-L+/ALI
8 : SW2	18 : R-L-
9 : TX+	19 : RMUT/AUXI
10 : TX-	20 : ADIM

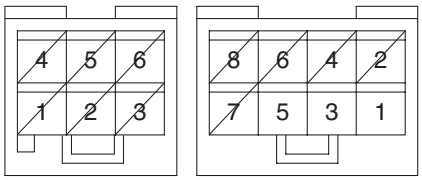


1 : MUTE	7 : GND
2 : CDL-	8 : NC
3 : CDL+	9 : TXM+
4 : CDR-	10 : TXM-
5 : CDR+	11 : ACC
6 : CSLD	12 : +B



1 : B	11 : ACC
2 : ILL+	12 : ILL-
3 : AMP	13 : ANT
4 : ANTA	14 : ANTB
5 : ATX+	15 : ATX-
6 : IVI+	16 : IVI-
7 : MUTE	17 : SLD2
8 : R+	18 : R-
9 : L+	19 : L-
10 : SLD	20 : GND





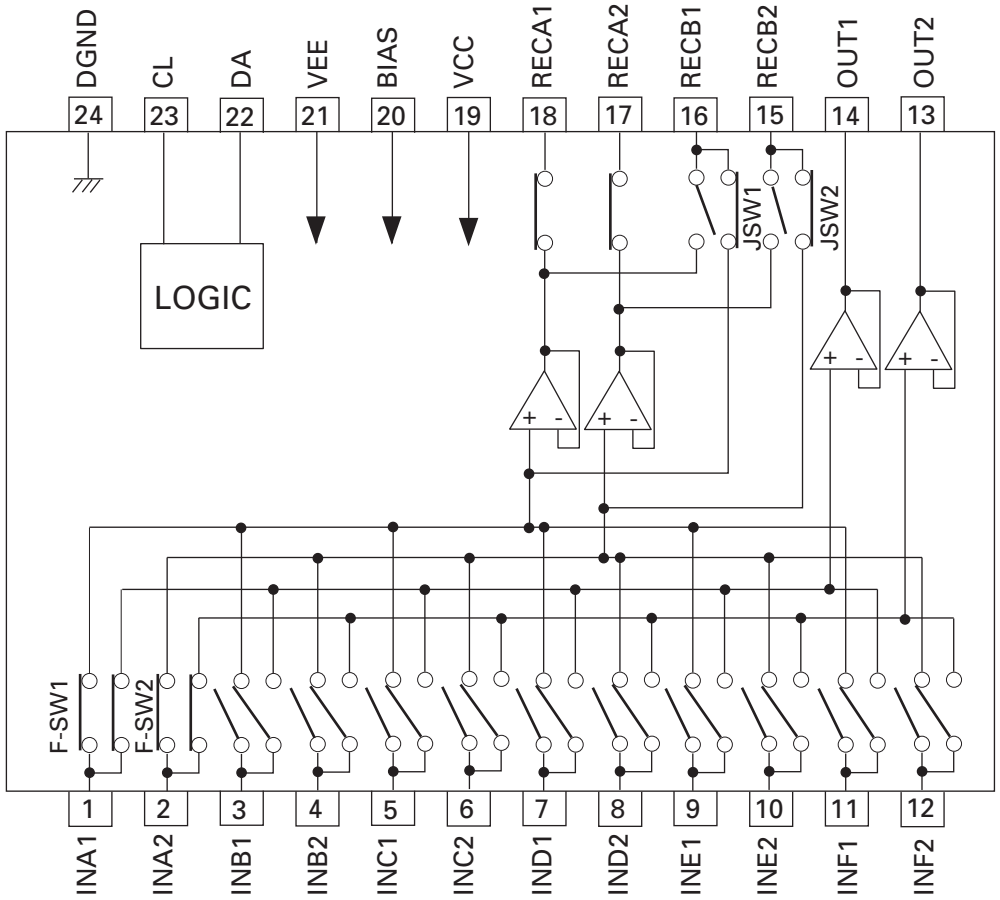
1 : VV+	1 : NTS2
2 : VAR+	2 : GND2
3 : VAL+	3 : SLD
4 : VV-	4 : SLD1
5 : VA-	5 : GND
6 : ADPG	6 : GND1
	7 : NTSC
	8 : NTS1

7.2 PARTS

7.2.1 IC

BD3842FS	S-812C39AMC-C2T	PE5443A	BR93L56RFVM-W
S-80940CNNB-G9A	TC7SET08FUS1	PD6496E	
PEG164A	MN35103UB	TC7SH86FUS1	
TPS54350PWP	TC74VHC08FTS1	TC74VHC541FTS1	

* BD3842FS



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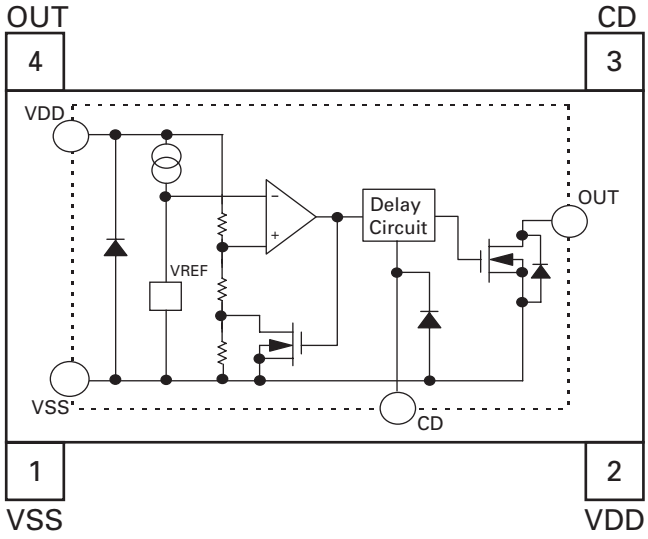


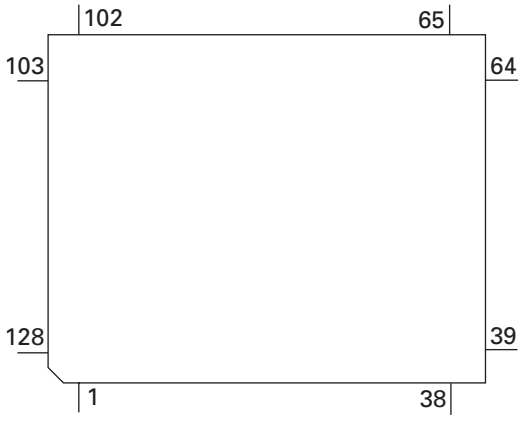
IC's marked by * are MOS type.
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

● Pin Functions(PEG164A)

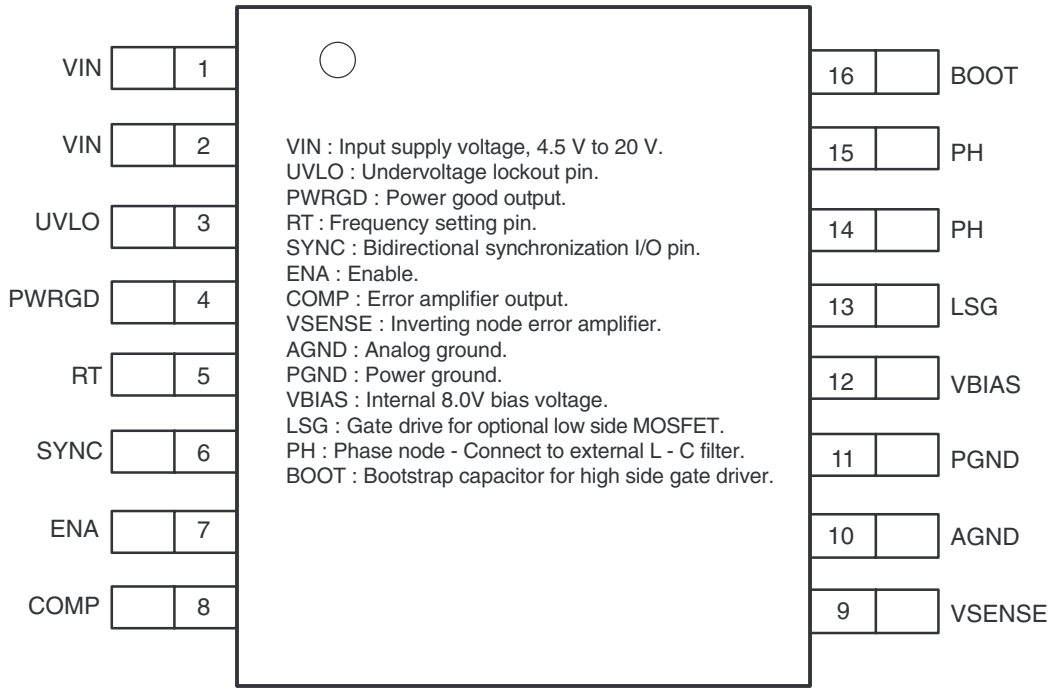
Pin No.	Pin Name	I/O	Function and Operation
1	VREF	I	A/D reference voltage input
2	AVCC		AVCC
3	PDI	I	PLL : Data input
4	PDO	O	PLL : Data output
5	$\overline{\text{PCK}}$	O	PLL : Data clock output
6	$\overline{\text{PCE2}}$	O	EEPROM : Chip enable output
7	PCE1	O	PLL : Chip enable output
8	LDTO	O	LCD Driver : Data output
9	LDTI	I	LCD Driver : Data input
10	LCK	O	LCD Driver : Clock output
11	ENC1P	I	Rotaly Encoder 1+ : input
12	ENC1M	I	Rotaly Encoder 1- : input
13	BYTE		GND
14	CNVSS		GND
15	ENC2P	I	Rotaly Encoder 2+ : input
16	ENC2M	I	Rotaly Encoder 2- : input
17	$\overline{\text{RESET}}$	I	Reset input
18	XOUT	O	Crystal oscillating element connection output
19	VSS		GND
20	XIN	I	Crystal oscillating element connection input
21	VCC		Power supply
22	$\overline{\text{NMI}}$		VDD connection
23-25	NC		Not used
26	RX2	I	AVC-LAN : Data input
27	IPPW	O	AVC-LAN : Power supply control output
28	$\overline{\text{LRST}}$	O	LCD Driver : Reset output
29	PWRBL	O	Backlight control output
30	LCE	O	LCD Driver : Chip enable output
31	PWMILL	O	Illumination control output
32	$\overline{\text{BSRQ}}$	I	P-BUS : Request input
33	$\overline{\text{BRST}}$	O	P-BUS : Reset output
34	RX1	I	AVC-LAN : Data input
35	TX	O	AVC-LAN : Data output
36	BSO	O	P-BUS : Data output
37	VCC		Power supply
38	NC		Not used
39	VSS		GND
40,41	NC		Not used
42	UTX	O	UART : Data output
43	URX	I	UART : Data input
44	PLAY	O	MS gain select output
45	IRQPW	I	UART : Request signal input
46	$\overline{\text{MTL}}$	I	Cassette mechanism tape select input
47	NC		Not used
48	NR	O	Dolby NR ON/OFF select output
49	TEST	I	Test mode program input
50-61	NC		Not used
62	MAINFIX	I	Antenna control input
63	PINFO	I	Panel type detect input
64	CSLOAD	I	Tape loading detect input
65	ANTA	O	ANT A control output
66	ANTB	O	ANT B control output
67	AMPW	O	TUNER : AM power supply control output
68	FMPW	O	TUNER : FM power supply control output
69	ACCON	O	BSENS power supply control output
70-72	NC		Not used
73	SC2	O	Cassette mechanism sub motor output
74	DOT		Connect to GND
75	NC		Not used
76	FRMUTE	O	SPOUT mute output
77	REMUTE	O	RSEOUT mute output
78	RSEMUTE	O	RSE unit mute output
79	LANMUTE	O	AVC-LAN mute output

Pin No.	Pin Name	I/O	Function and Operation
80	ADIM	I	ADIM data input
81	SYSPW	O	System power supply control output
82	SWVDD	O	SWVDD control output
83	WC	I/O	Test mode input / Tuner write control output
84	REGION	O	REGION set output
85	VCC		Power supply
86	DDCONF2	O	DD control frequency select output
87	VSS		GND
88	SELDATA	O	Audio selector control output
89	SELCK	O	Audio selector clock output
90	VSEL	O	Front monitor source select control output
91	VSEL1	O	Rear monitor source select control output 1
92	VSEL2	O	Rear monitor source select control output 2
93	VMUTE1	O	Front monitor mute output
94	VMUTE2	O	Rear monitor mute output
95	$\overline{\text{ISEN}}$	I	Illumination sense input
96	NC		Not used
97	$\overline{\text{ASEN}}$	I	ACC power sense input
98	$\overline{\text{BSEN}}$	I	Back up power sense input
99-101	NC		Not used
102	MOTANT	I	Motor antenna detect input
103	STBY2	O	Cassette mechanism driver stand-by output
104	MS	I	Music sense input
105	$\overline{\text{FR}}$	O	Cassette mechanism head forward/reverse select output
106	CM	O	Cassette mechanism capstan motor control output
107-109	NC		Not used
110	POS	I	Cassette mechanism position sense input
111	ES	I	Cassette mechanism end sense input
112-119	NC		Not used
120	AUXIN	I	Mini Jack sense input
121	STSW1	I	Steering switch 1 input
122	STSW2	I	Steering switch 2 input
123	ILL-	I	Illumination minus input
124	AREA	I	Area distinguish input
125	2NDL/R	I	Model type detect input
126	NC		Not used
127	AVSS		Analog power GND
128	SL	I	TUNER : Signal level input

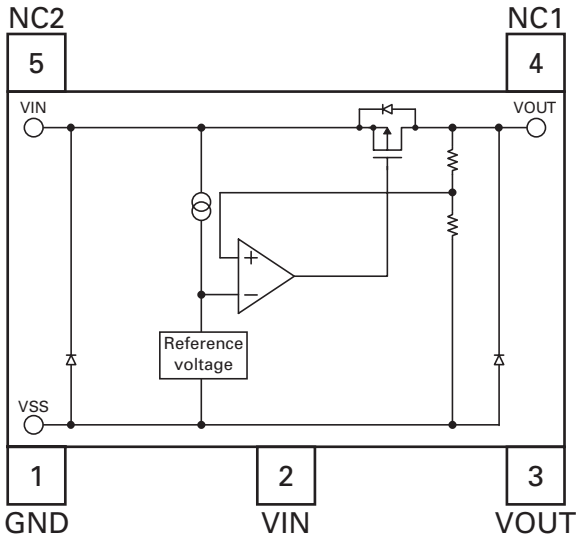
* PEG164A



TPS54350PWP



* S-812C39AMC-C2T



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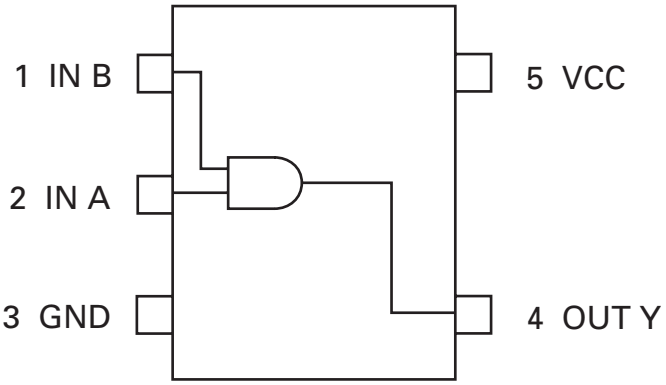


● Pin Functions(MN35103UB)

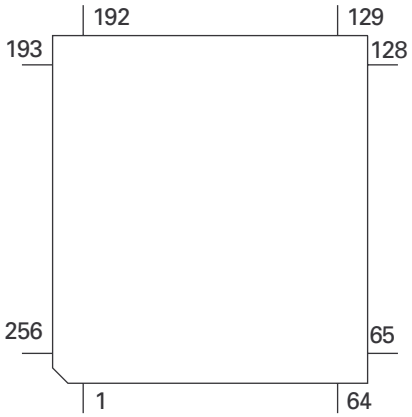
Pin No.	Pin Name	I/O	Function and Operation
1	VDD33		IO power supply
2,3	MDQ	I / O	SDRAM data
4	VSS		GND
5,6	MDQ	I / O	SDRAM data
7	VDD33		IO power supply
8-10	MDQ	I / O	SDRAM data
11	VSS		GND
12,13	MDQ	I / O	SDRAM data
14	VDD33		IO power supply
15	VDD15		Power supply
16	VSS		GND
17	EXADR	I / O	Memory 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	VDD33		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	VDD33		IO power supply
57	MMOD	I	Test mode setting
58	VSS		GND
59	P6	I / O	Serial clock
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

Pin No.	Pin Name	I/O	Function and Operation
84	EXTRG1	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
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

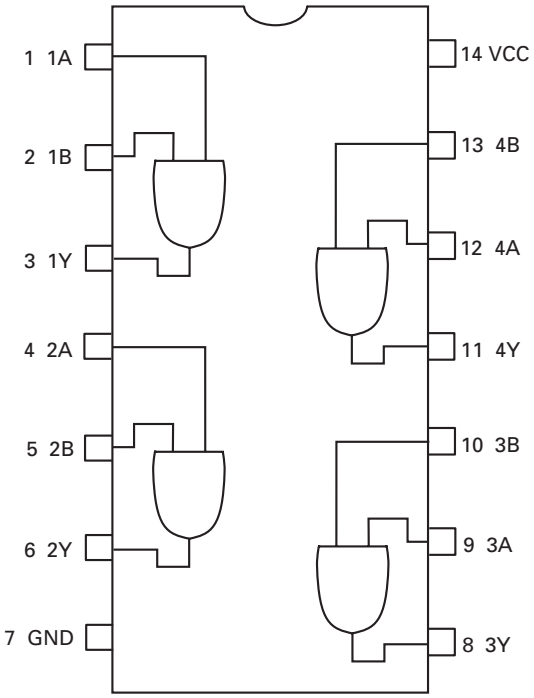
Pin No.	Pin Name	I/O	Function and Operation
165	AVDDG	I	Analog power suplly
166	IREF2		Inside DAC bias current
167	AVSSG	I	Analog GND
168	COMP2		Inside DAC
169	VSS	I	GND
170	BECLK		Backend clock input
171	VDD33	I	IO power supply
172	EXTCK		Exterior audio clock
173	PHCOMPO		Composite audio clock
174	LRCK	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
232	NWE	O	SDRAM writte 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

Pin No.	Pin Name	I/O	Function and Operation
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

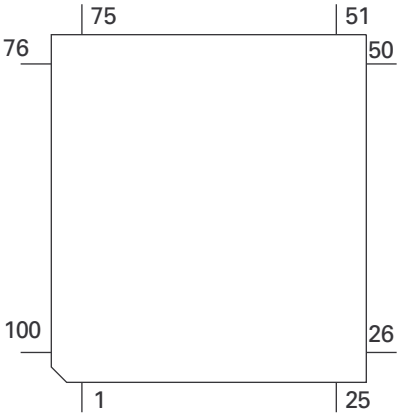
*MN35103UB



* TC74VHC08FTS1



*PE5443A

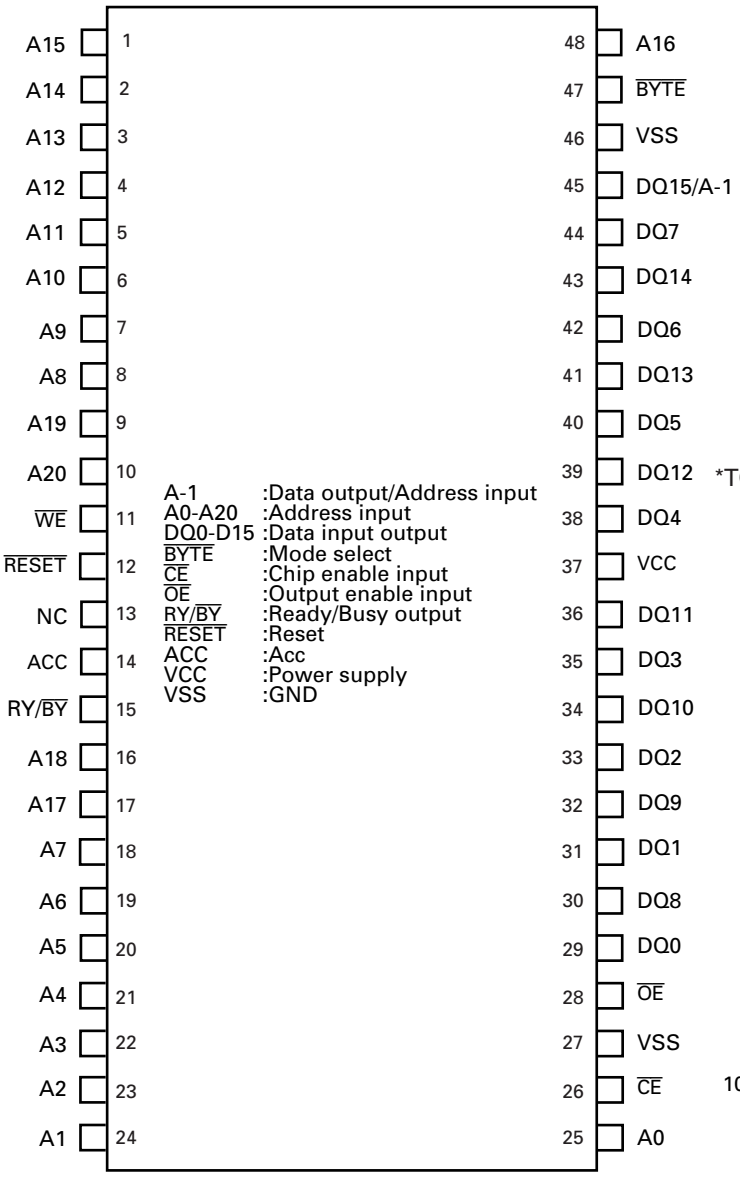


● Pin Functions(PE5443A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	AVREF0	O		A/D converter reference voltage
2	AVSS			A power supply GND
3	SD	O		CRG drive output(controlled by claw)
4	NC			(Cannot used exept D/A)
5	AVREF1		C	Not used
6	CAMVOL	O	C	Switching CAM motor driver output voltage
7	E/LVOL1	O		Switching 1 ELV/LOAD motor driver output
8	VPP/IC			IC: Connected to VSS directry/ VPP:Pull-down
9	VDD			Positive power supply (5 V) pin
10	REGC			Connected to the capacity stabilizing output of the regulator (4.7μF electric capacitor)
11	VSS			GND
12	X1			Connected to the oscillator for main-clock
13	X2			Connected to the oscillator for main-clock
14	/RESET	I		Mechanism microcomputer reset signal
15	XT1	I		Connected to the oscillator for sub-clock (connected to VSS via the resistor)
16	XT2			Connected to the oscillator for sub-clock (Open)
17	PULLDOWN	I		Connected to EVDD or EVSS via the resistor
18	/BRST	O		(Reserve: P-BUS reset)
19	/CDSTBY	O		(Reserve: IIC-BUS reset)
20	IRQPWR			Interruption to the reduced voltage
21	WAKEUP			Interruption to rise up the detection of DVD/CD DISC insert
22	BSI	I		(Reserve: P-BUS serial-data input)
23	BSO	O		(Reserve: P-BUS serial-data output)
24	BSCK	I/O	C	(Reserve: P-BUS serial-data input/output
25	TXDO	O		HOST(PC) UART data output/for flash rewriting (transmitted signal)
26	RXDO	I	C	HOST(PC) UART data input/for flash rewriting (received signal)
27	(BRXEN)	O	C	(Reserva: P-BUS possible to receive signal)
28	(/BSRQ)	O	C	(Reserve: P-BUS demand for service request)
29	(/CDSRQ)	O	C	(Reserve: IIC-BUS demand for request)
30	E/LVOL2	O	N	Switching 2 ELV/LOAD motor driver output
31,32	NC			Not used
33	EVSS			E power supply GND
34	EVDD		N	E power supply positive power supply
35	(SDA)	O	N	(Reserve: IIC-BUS data)
36	(SCL)	O		(Reserve: IIC-BUS clock)
37	(COREPWR)	O	C	Not used
38	XRES_M	O	C	DVD microcomputer reset signal (L: RESET)
39	IRQPWR_M	O		Notice to reduce the voltage of DVD microcomputer
40	NC		C	Not used
41	E/LFWD	O	C	ELV/LOAD motor control output 2 (FWD)
42	E/LREV	O	C	ELV/LOAD motor control output 1 (REV)
43	TXD1	O		DVD UART data output
44	RXD1	I		DVD UART data input
45	NC		C	Not used
46	CRGCONT	O		Output of the switching to servo driver control (H: acquirement)
47	DCONT2	O		(Reserve: servo driver output ON/OFF control (H: ON)
48	ROM1K	I	C	EEPROM switching to input 2k(L)/1k
49	VDCONT	O	/C	VD power supply control output
50	ROMDATA	I/O		E2PROM data input/output

Pin No.	Pin Name	I/O	Format	Function and Operation
51	ROMCS	O	C	E2PROM chip selection output
52	ROMCK	O	C	E2PROM clock output
53	/EPCS	I		E2PROM input(L)/no input & (E2PROM chip selection (output))
54	/TESTIN	I		Chip check test program starting up input
55	/DBBUGIN	I		Detection on-board debugger
56	NC			Not used
57	LOADSWL	I		LOAD operation sense L (DISC shape detecting, LOAD completed)
58	LOADSWR	I		LOAD operation sense R (DISC shape detecting, LOAD completed)
59	CONT_A	O	C	DVD/CD power supply control A pin
60	CONT_B	O	C	DVD/CD power supply control B pin
61	XAVCHK_ENT	I		AV check entry
62	XUCHK_ENT	I		Unit check entry
63-65	NC			(Reserve: DVD IN Port)
66	SPD_SW1	I		SW1 to set the speed of HOST (PC) UART
67	SPD_SW2	I		SW2 to set the speed of HOST (PC) UART
68	NC			Not used
69	BVSS			B power supply GND
70	BVDD			B power supply positive power supply (3.3 V)
71	HMCKENA	O	C	Master clock output control for CD
72	FSSW1	O	C	SW1 switching fs CG
73	FSSW2	O	C	SW2 switching fs CG
74	DTR	O	C	PC connected DTR
75	EMPH	O	C	Emphasis ON/OFF
76	CD_DVD	O	C	Switching CD/DVD (PLL LOCK detection)
77	CONT	O	C	ACT driver mute
78	OEIC	O	C	Switching gain of pick-up OEIC
79	BMUTE	O	C	BMUTE output
80	AMUTE	O	C	Last stage of audio Mute
81	NC		C	(AVREF_SW)
82	RIPP	O	C	Port for CDDA ripping
83	RIP_P_HEAD	O	C	Detection the interval of music (eqivalent to ripping) H: normal/L: detecting the interval
84,85	NC		C	(Reserve: DVD OUT Port)
86	REV	O	C	Not used
87	INISW	I		Disc/no disc sense input when initializing
88	/SVCONT	O	C	Switching the reference voltage
89	CAMREV	O	C	CAM motor control output 1 (REV)
90	CAMFWD	O	C	CAM motor control output 2 (FWD)
91	HOME	I		HOME SW sense input
92	CLAMP	I		CLAMP SW sense input
93	TEMP	I		Temperature information sense input (Reserve)
94	CAMSNS			CAM position select input (linear position)
95	CAMREF			Reference voltage for CAM sense
96	ELVSNS	I		ELV position select input (linear position)
97	ELVREF			Reference voltage for ELV sense
98	LOADPHT			LOAD operation photo sense (no DISC, starting LOAD)
99	VDSENS	I		VD power supply shorted air/ground sense input
100	VHALF	I		Servo driver center voltage input

*PD6496E



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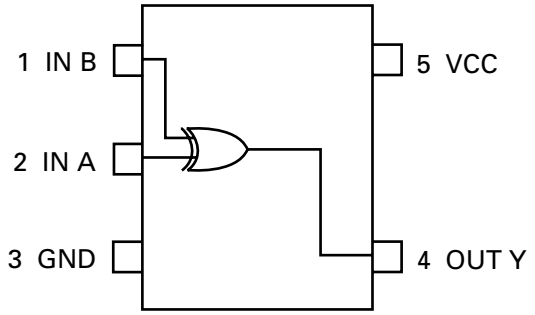

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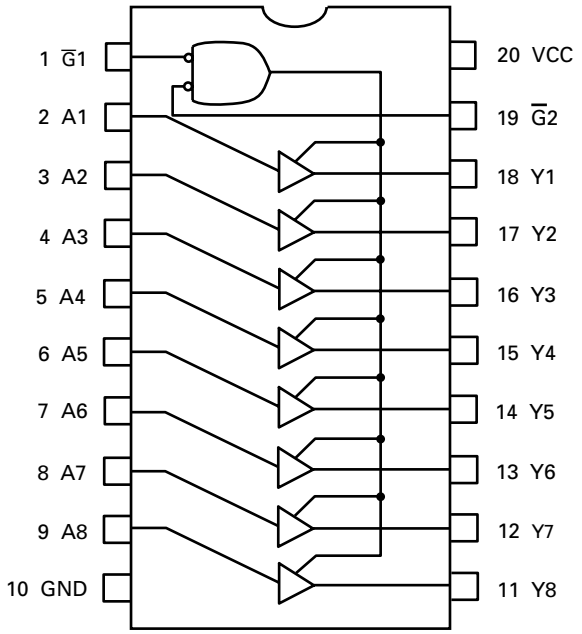
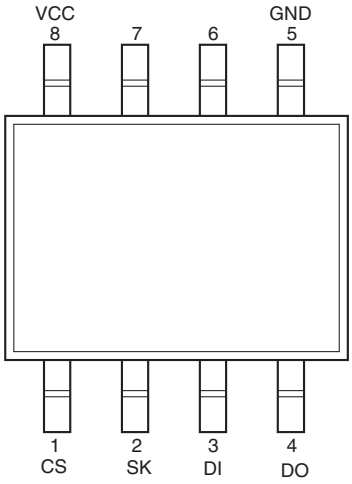
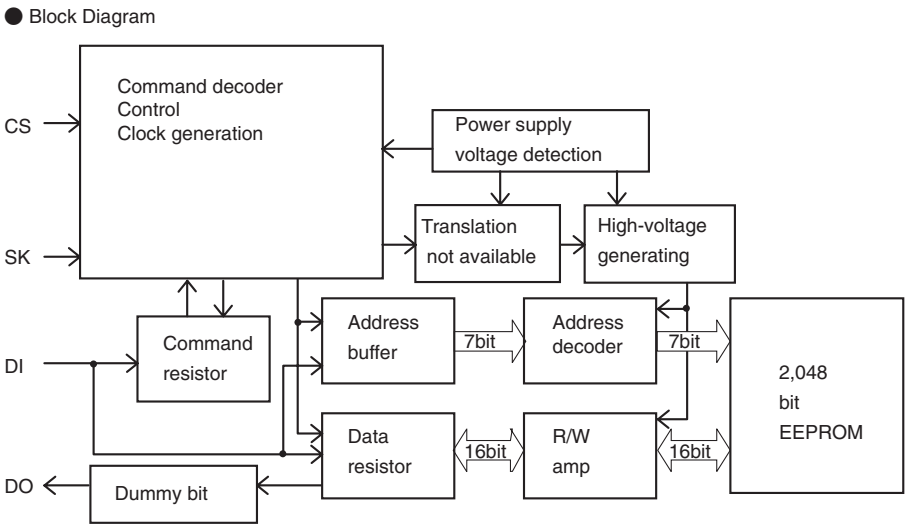


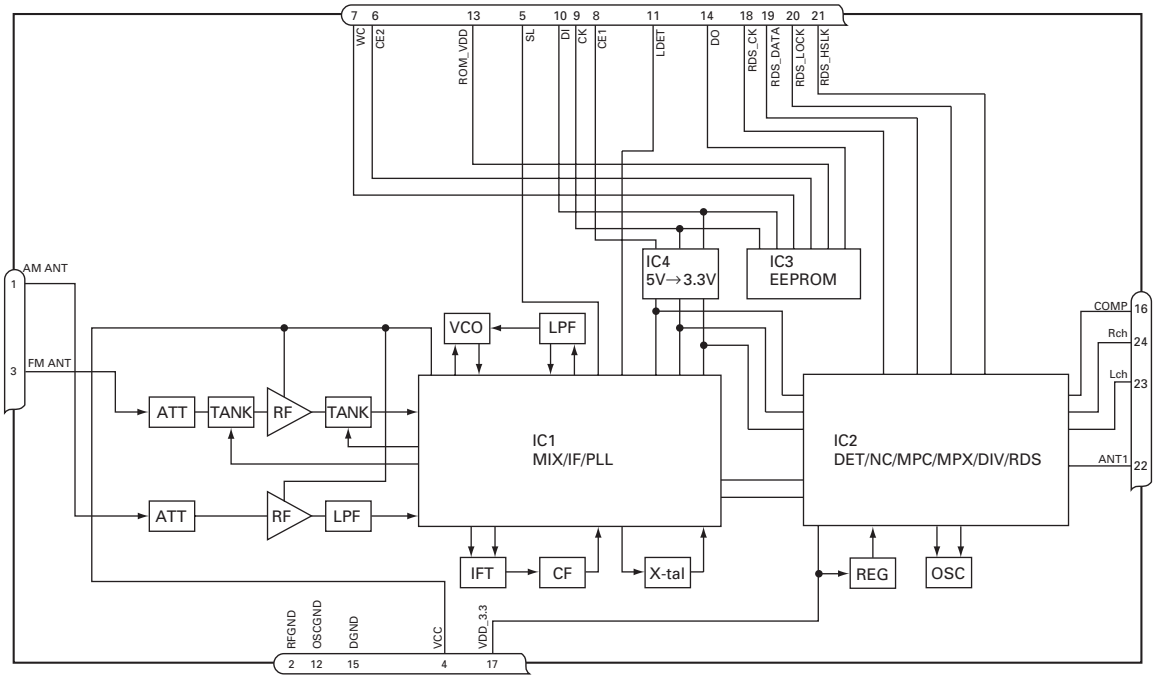
*BR93L56RFVM-W



● Block Diagram



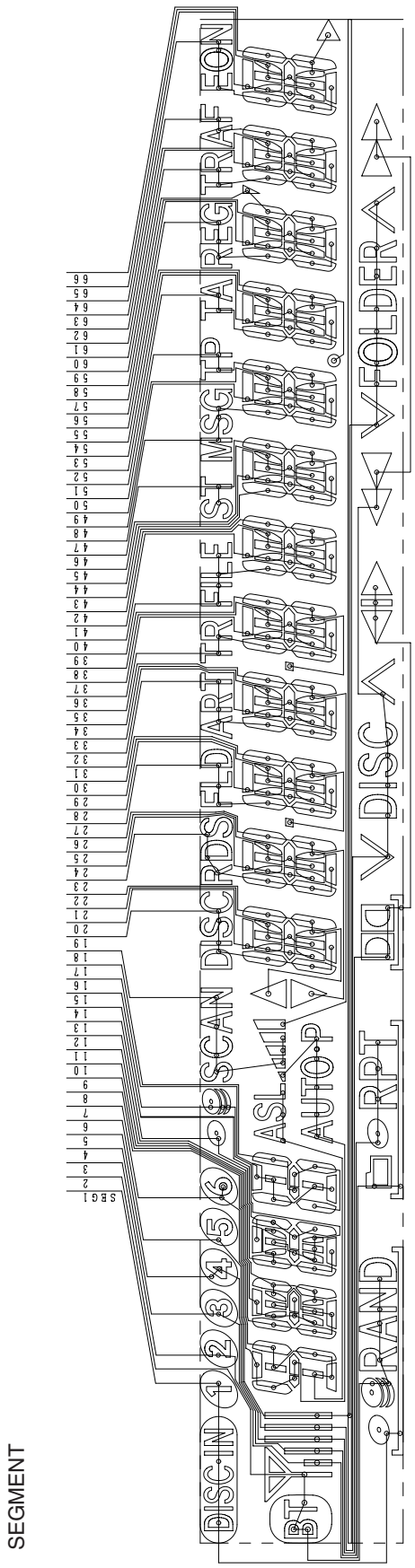
● FM/AM Tuner Unit

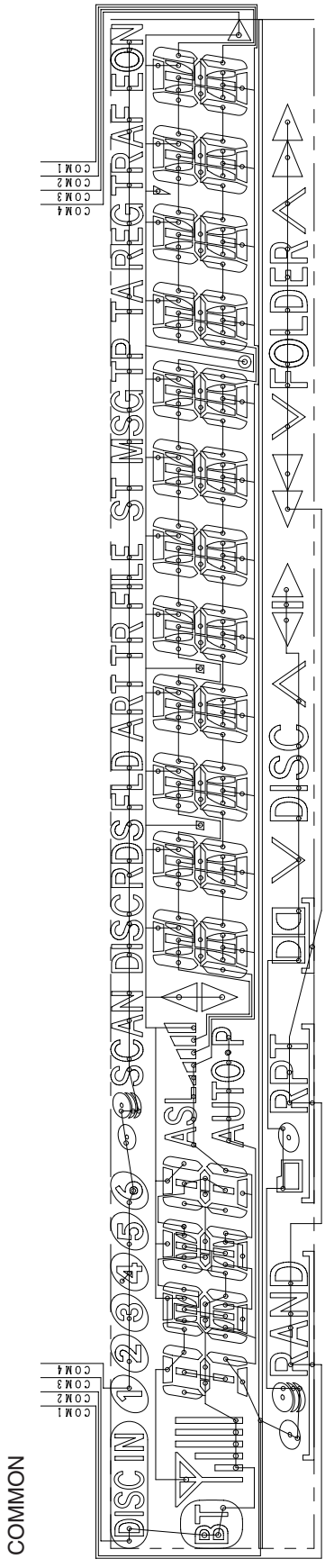


No.	Symbol	I/O	Explain	
1	AMANT	I	AM antenna input	AM antenna input high impedance AMANT pin is connected with an all antenna by way of 33μH. (LAU type inductor) A series circuit including an inductor and a resistor is connected with RF ground for the countermeasure against the hum of power transmission line.
2	RFGND		RF ground	Ground of antenna block
3	FMANT	I	FM antenna input	Input of FM antenna 75Ω Surge absorber 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 data input
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	COMP	O	composite output	FM composite signal output.
17	VDD_3.3		power supply	The power supply for digital block. 3.3V ± 02V
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	ANT1		diversity antenna control	Antenna switch control signal output. "High" : MAIN, "Low"=SUB
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

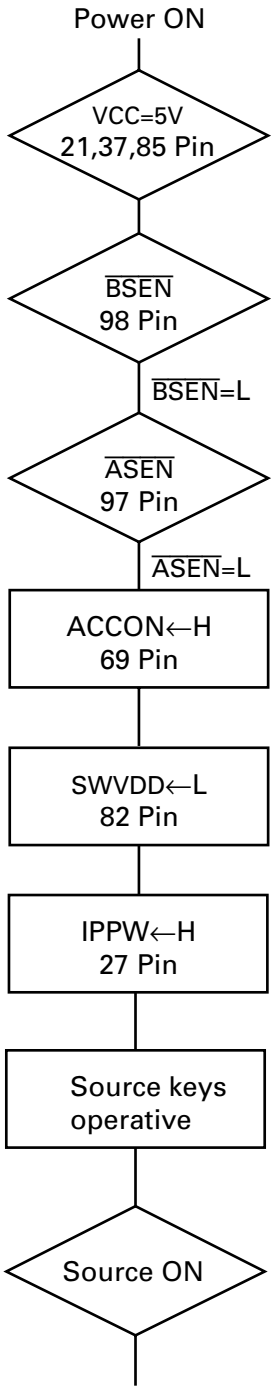
7.2.2 DISPLAY

● **CAW1867**



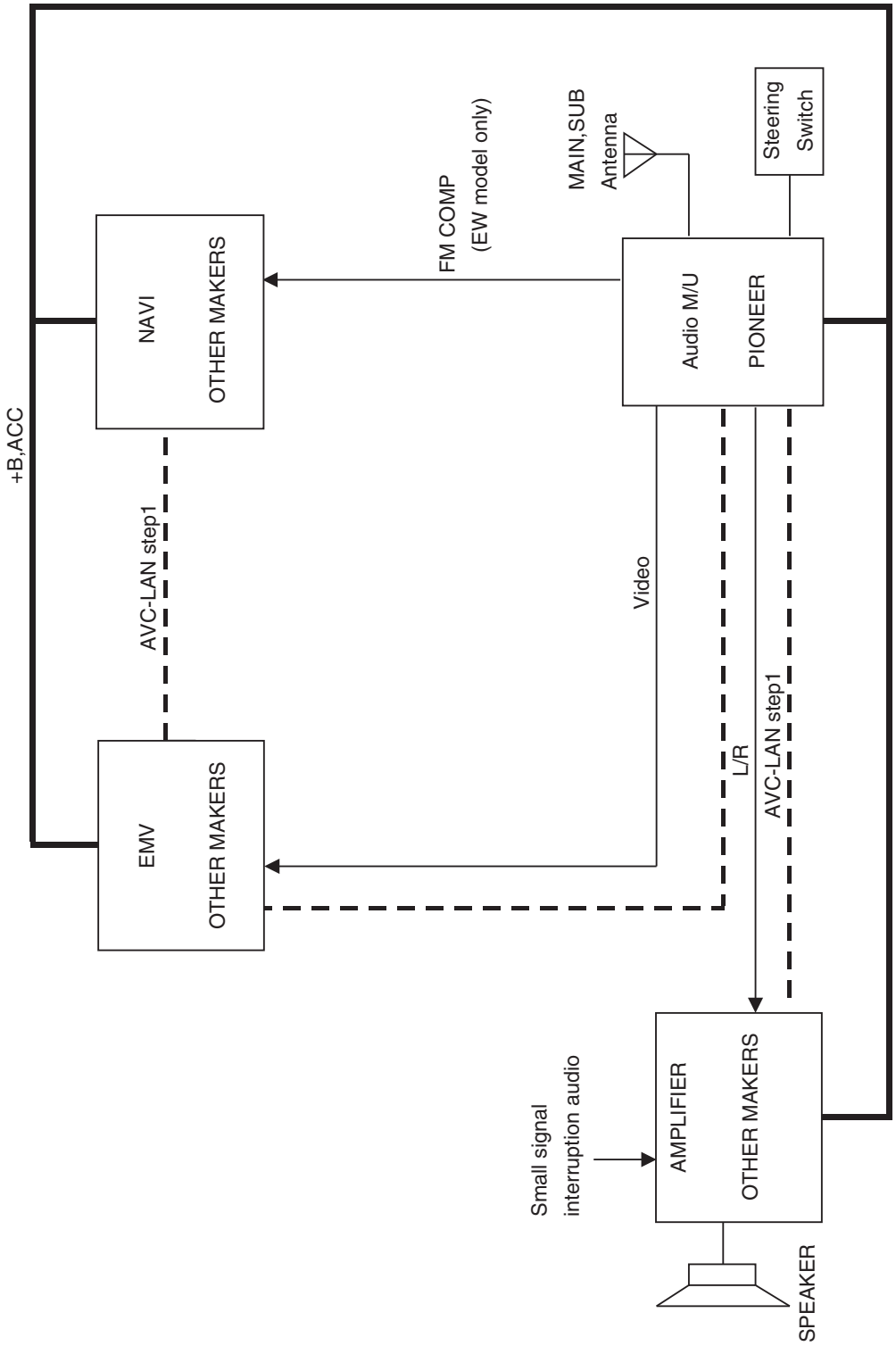


7.3 EXPLANATION
7.3.1 OPERATIONAL FLOW CHART



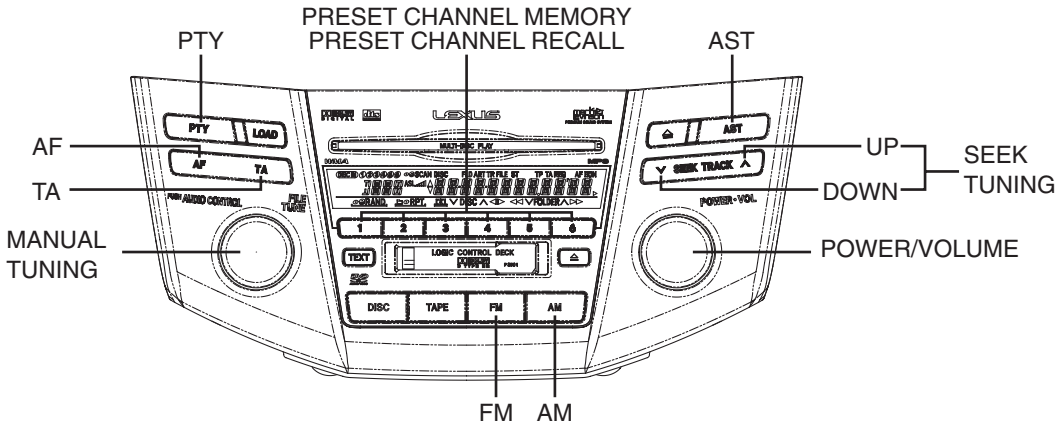
Completes power-on operation.
(After that, proceed to each source operation)

7.3.2 SYSTEM BLOCK DIAGRAM

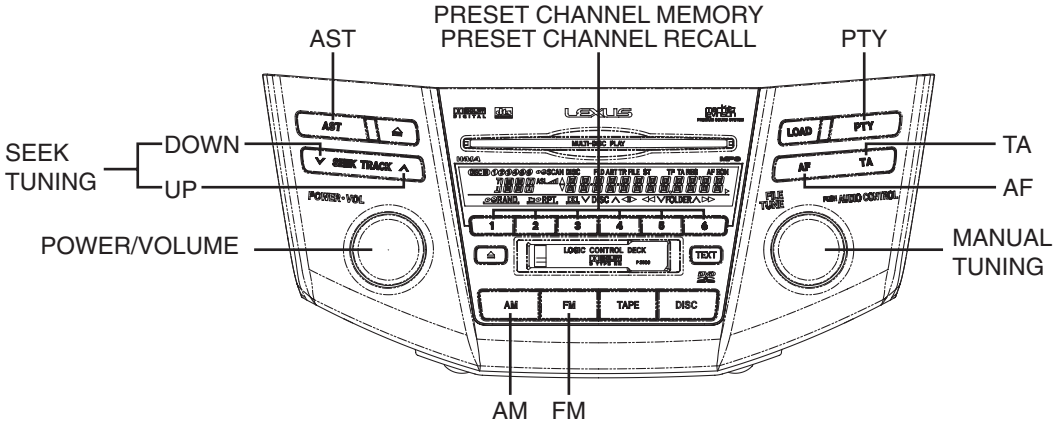


8. OPERATIONS

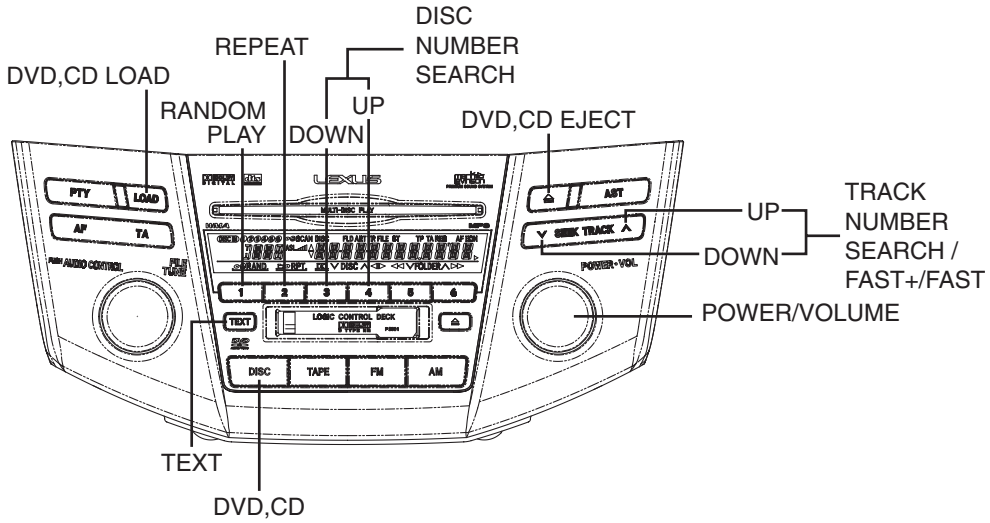
● **RADIO**
● **FX-MG8667DVZT/EW**



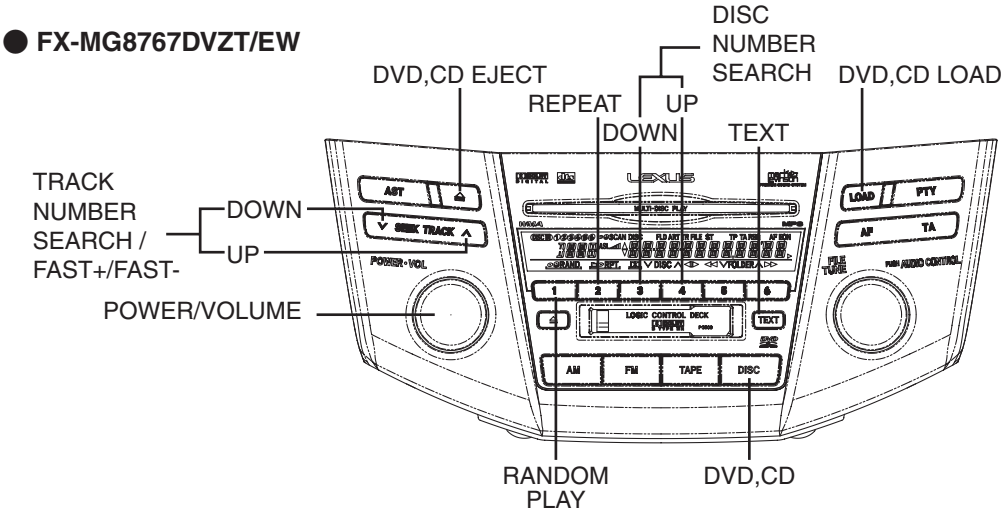
● **FX-MG8767DVZT/EW**



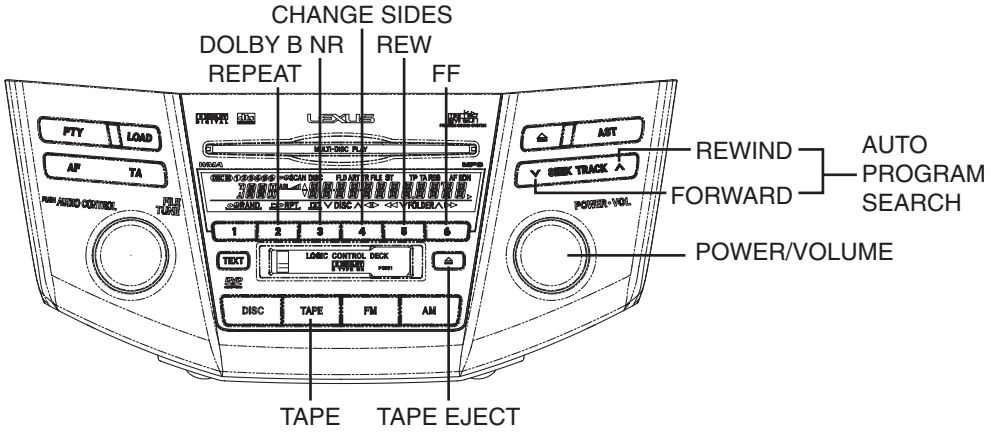
● **DVD / CD**
● **FX-MG8667DVZT/EW**



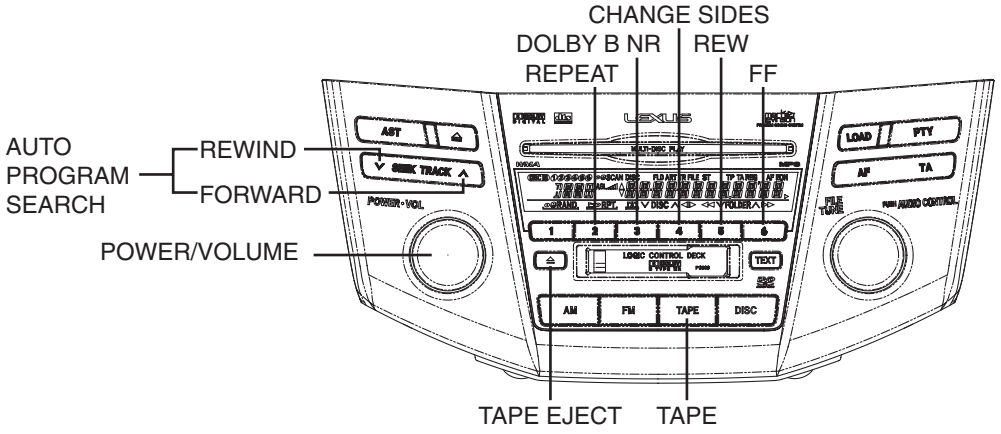
● **FX-MG8767DVZT/EW**



● **CASSETTE**
● **FX-MG8667DVZT/EW**



● **FX-MG8767DVZT/EW**



● Jigs List

Name	Jig No.	Remarks
Assembly jig	GGF1538	Assembly jig for MG4 (3pcs)
Flexible extension	GGD1170	40-Pin flexible extension
Flexible extension	GGD1422	18-Pin flexible extension
Flexible extension	GGD1421	24-Pin flexible extension
Extension Cord	GGD1472	For system confirmation
Extension Cord	GGD1451	For system confirmation

● Grease List

Name	Jig No.	Remarks
PG641	GEM1024	Mechanism Module Unit(SERVICE)

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,CD pickup lenses	Cleaning liquid : GEM1004 Cleaning paper : GED-008

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

● Internal multi-DVD shipping position mode setting

Auto change to the SHIP MODE after ALL DISC EJECT.

NOTE :
Do not switch off ACC and +B at the same time immediately after ejecting DISC.
(Switch off +B at 5 seconds after the shutter door is closed.)

*PICK UP is made to be automatically shifted to SHIP MODE. However, the above action may discontinue operation, disabling a shift to SHIP MODE.

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