



P/NO : 3829RHP040R

MARCH,2005

SERVICE MANUAL

MODEL : DF599X(DF9912EH)



DVD VIDEO PLAYER

SERVICE MANUAL

MODEL : DF599 X (DF9912EH)

CAUTION

BEFORE SERVICING THE UNIT, READ THE "SAFETY PRECAUTIONS" IN THIS MANUAL.



LG Electronics Inc.

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SUMMARY

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PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS

CAUTION : DO NOT ATTEMPT TO MODIFY THIS PRODUCT IN ANY WAY. NEVER PERFORM CUSTOMIZED INSTALLATIONS WITHOUT MANUFACTURER'S APPROVAL. UNAUTHORIZED MODIFICATIONS WILL NOT ONLY VOID THE WARRANTY, BUT MAY LEAD TO YOUR BEING LIABLE FOR ANY RESULTING PROPERTY DAMAGE OR USER INJURY.

SERVICE WORK SHOULD BE PERFORMED ONLY AFTER YOU ARE THOROUGHLY FAMILIAR WITH ALL OF THE FOLLOWING SAFETY CHECKS AND SERVICING GUIDELINES. TO DO OTHERWISE, INCREASES THE RISK OF POTENTIAL HAZARDS AND INJURY TO THE USER.

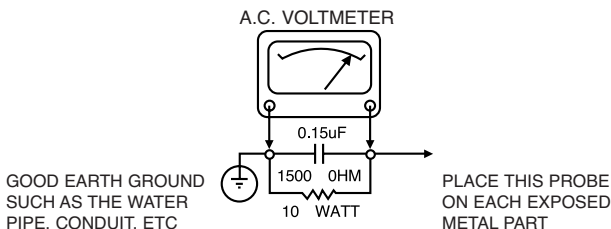
WHILE SERVICING, USE AN ISOLATION TRANSFORMER FOR PROTECTION FROM A.C. LINE SHOCK.

SAFETY CHECKS

AFTER THE ORIGINAL SERVICE PROBLEM HAS BEEN CORRECTED, A CHECK SHOULD BE MADE OF THE FOLLOWING.

SUBJECT : FIRE & SHOCK HAZARD

1. BE SURE THAT ALL COMPONENTS ARE POSITIONED IN SUCH A WAY AS TO AVOID POSSIBILITY OF ADJACENT COMPONENT SHORTS. THIS IS ESPECIALLY IMPORTANT ON THOSE MODULES WHICH ARE TRANSPORTED TO AND FROM THE REPAIR SHOP.
2. NEVER RELEASE A REPAIR UNLESS ALL PROTECTIVE DEVICES SUCH AS INSULATORS, BARRIERS, COVERS, SHIELDS, STRAIN RELIEFS, POWER SUPPLY CORDS, AND OTHER HARDWARE HAVE BEEN REINSTALLED PER ORIGINAL DESIGN. BE SURE THAT THE SAFETY PURPOSE OF THE POLARIZED LINE PLUG HAS NOT BEEN DEFEATED.
3. SOLDERING MUST BE INSPECTED TO DISCOVER POSSIBLE COLD SOLDER JOINTS, SOLDER SPLASHES OR SHARP SOLDER POINTS. BE CERTAIN TO REMOVE ALL LOOSE FOREIGN PARTICLES.
4. CHECK FOR PHYSICAL EVIDENCE OF DAMAGE OR DETERIORATION TO PARTS AND COMPONENTS. FOR FRAYED LEADS, DAMAGED INSULATION (INCLUDING A.C. CORD). AND REPLACE IF NECESSARY FOLLOW ORIGINAL LAYOUT, LEAD LENGTH AND DRESS.
5. NO LEAD OR COMPONENT SHOULD TOUCH A RECEIVING TUBE OR A RESISTOR RATED AT 1 WATT OR MORE. LEAD TENSION AROUND PROTRUDING METAL SURFACES MUST BE AVOIDED.
6. ALL CRITICAL COMPONENTS SUCH AS FUSES, FLAMEPROOF RESISTORS, CAPACITORS, ETC. MUST BE REPLACED WITH EXACT FACTORY TYPES, DO NOT USE REPLACEMENT COMPONENTS OTHER THAN THOSE SPECIFIED OR MAKE UNRECOMMENDED CIRCUIT MODIFICATIONS.
7. AFTER RE-ASSEMBLY OF THE SET ALWAYS PERFORM AN A.C. LEAKAGE TEST ON ALL EXPOSED METALLIC PARTS OF THE CABINET, (THE CHANNEL SELECTOR KNOB, ANTENNA TERMINALS, HANDLE AND SCREWS) TO BE SURE THE SET IS SAFE TO OPERATE WITHOUT DANGER OF ELECTRICAL SHOCK. DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST USE AN A.C. VOLT-METER, HAVING 5000 OHMS PER VOLT OR MORE SENSITIVITY, IN THE FOLLOWING MANNER; CONNECT A 1500 OHM 10 WATT RESISTOR, PARALLELED BY A .15 MFD. 150.V A.C TYPE CAPACITOR BETWEEN A KNOWN GOOD EARTH GROUND (WATER PIPE, CONDUIT, ETC.) AND THE EXPOSED METALLIC PARTS, ONE AT A TIME. MEASURE THE A.C. VOLTAGE ACROSS THE COMBINATION OF 1500 OHM RESISTOR AND .15 MFD CAPACITOR. REVERSE THE A.C. PLUG AND REPEAT A.C. VOLTAGE MEASUREMENTS FOR EACH EXPOSED METALLIC PART. VOLTAGE MEASURED MUST NOT EXCEED 75 VOLTS R.M.S. THIS CORRESPONDS TO 0.5 MILLIAMPS A.C ANY VALUE EXCEEDING THIS LIMIT CONSTITUTES A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED IMMEDIATELY.



SUBJECT: GRAPHIC SYMBOLS



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF IMPORTANT SAFETY INFORMATION IN SERVICE LITERATURE.

SUBJECT : X-RADIATION

1. BE SURE PROCEDURES AND INSTRUCTIONS TO ALL SERVICE PERSONNEL COVER THE SUBJECT OF X-RADIATION. THE ONLY POTENTIAL SOURCE OF X-RAYS IN CURRENT T.V. RECEIVERS IS THE PICTURE TUBE. HOWEVER, THIS TUBE DOES NOT EMIT X-RAYS WHEN THE HIGH VOLTAGE IS AT THE FACTORY SPECIFIED LEVEL. THE PROPER VALUE IS GIVEN IN THE APPLICABLE SCHEMATIC. OPERATION AT HIGHER VOLTAGES MAY CAUSE A FAILURE OF THE PICTURE TUBE OR HIGH VOLTAGE SUPPLY AND, UNDER CERTAIN CIRCUMSTANCES, MAY PRODUCE RADIATION IN EXCESS OF DESIRABLE LEVELS.
2. ONLY FACTORY SPECIFIED C.R.T. ANODE CONNECTORS MUST BE USED. DEGAUSSING SHIELDS ALSO SERVE AS X-RAY SHIELD IN COLOR SETS, ALWAYS RE-INSTALL THEM.
3. IT IS ESSENTIAL THAT SERVICE PERSONNEL HAVE AVAILABLE AN ACCURATE AND RELIABLE HIGH VOLTAGE METER. THE CALIBRATION OF THE METER SHOULD BE CHECKED PERIODICALLY AGAINST A REFERENCE STANDARD, SUCH AS THE ONE AVAILABLE AT YOUR DISTRIBUTOR.
4. WHEN THE HIGH VOLTAGE CIRCUITRY IS OPERATING PROPERLY THERE IS NO POSSIBILITY OF AN X-RADIATION PROBLEM. EVERY TIME A COLOR CHASSIS IS SERVICED, THE BRIGHTNESS SHOULD BE RUN UP AND DOWN WHILE MONITORING THE HIGH VOLTAGE WITH A METER TO BE CERTAIN THAT THE HIGH VOLTAGE DOES NOT EXCEED THE SPECIFIED VALUE AND THAT IT IS REGULATING CORRECTLY. WE SUGGEST THAT YOU AND YOUR SERVICE ORGANIZATION REVIEW TEST PROCEDURES SO THAT VOLTAGE REGULATION IS ALWAYS CHECKED AS A STANDARD SERVICING PROCEDURE. AND THAT THE HIGH VOLTAGE READING BE RECORDED ON EACH CUSTOMER'S INVOICE.
5. WHEN TROUBLESHOOTING AND MAKING TEST MEASUREMENTS IN A PRODUCT WITH A PROBLEM OF EXCESSIVE HIGH VOLTAGE, AVOID BEING UNNECESSARILY CLOSE TO THE PICTURE TUBE AND THE HIGH VOLTAGE SUPPLY. DO NOT OPERATE THE PRODUCT LONGER THAN IS NECESSARY TO LOCATE THE CAUSE OF EXCESSIVE VOLTAGE.
6. REFER TO HV. B+ AND SHUTDOWN ADJUSTMENT PROCEDURES DESCRIBED IN THE APPROPRIATE SCHEMATIC AND DIAGRAMS (WHERE USED).

SUBJECT: IMPLOSION

1. ALL DIRECT VIEWED PICTURE TUBES ARE EQUIPPED WITH AN INTEGRAL IMPLOSION PROTECTION SYSTEM, BUT CARE SHOULD BE TAKEN TO AVOID DAMAGE DURING INSTALLATION, AVOID SCRATCHING THE TUBE. IF SCRATCHED REPLACE IT.
2. USE ONLY RECOMMENDED FACTORY REPLACEMENT TUBES.

SUBJECT : TIPS ON PROPER INSTALLATION

1. NEVER INSTALL ANY PRODUCT IN A CLOSED-IN RECESS, CUBBY-HOLE OR CLOSELY FITTING SHELF SPACE. OVER OR CLOSE TO HEAT DUCT, OR IN THE PATH OF HEATED AIR FLOW.
2. AVOID CONDITIONS OF HIGH HUMIDITY SUCH AS: OUTDOOR PATIO INSTALLATIONS WHERE DEW IS A FACTOR, NEAR STEAM RADIATORS WHERE STEAM LEAKAGE IS A FACTOR, ETC.
3. AVOID PALCEMENT WHERE DRAPERIES MAY OBSTRUCT REAR VENTING. THE CUSTOMER SHOULD ALSO AVOID THE USE OF DECORATIVE SCARVES OR OTHER COVERINGS WHICH MIGHT OBSTRUCT VENTILATION.
4. WALL AND SHELF MOUNTED INSTALLATIONS USING A COMMERCIAL MOUNTING KIT. MUST FOLLOW THE FACTORY APPROVED MOUNTING INSTRUCTIONS A PRODUCT MOUNTED TO A SHELF OR PLATFORM MUST RETAIN ITS ORIGINAL FEET (OR THE EQUIVALENT THICKNESS IN SPACERS) TO PROVIDE ADEQUATE AIR FLOW ACROSS THE BOTTOM, BOLTS OR SCREWS USED FOR FASTENERS MUST NOT TOUCH ANY PARTS OR WIRING. PERFORM LEAKAGE TEST ON CUSTOMIZED INSTALLATIONS.
5. CAUTION CUSTOMERS AGAINST THE MOUNTING OF A PRODUCT ON SLOPING SHELF OR A TILTED POSITION, UNLESS THE PRODUCT IS PROPERLY SECURED.
6. A PRODUCT ON A ROLL-ABOUT CART SHOULD BE STABLE ON ITS MOUNTING TO THE CART. CAUTION THE CUSTOMER ON THE HAZARDS OF TRYING TO ROLL A CART WITH SMALL CASTERS ACROSS THRESHOLDS OR DEEP PILE CARPETS.
7. CAUTION CUSTOMERS AGAINST THE USE OF A CART OR STAND WHICH HAS NOT BEEN LISTED BY UNDERWRITERS LABORATORIES, INC. FOR USE WITH THEIR SPECIFIC MODEL OF TELEVISION RECEIVER OR GENERALLY APPROVED FOR USE WITH T.V.'S OF THE SAME OR LARGER SCREEN SIZE.
8. CAUTION CUSTOMERS AGAINST THE USE OF EXTENSION CORDS, EXPLAIN THAT A FOREST OF EXTENSIONS SPROUTING FROM A SINGLE OUTLET CAN LEAD TO DISASTROUS CONSEQUENCES TO HOME AND FAMILY.

SERVICING PRECAUTIONS

CAUTION : Before servicing the DVD covered by this service data and its supplements and addends, read and follow the SAFETY PRECAUTIONS. **NOTE** : if unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions in this publication, always follow the safety precautions.

Remembers Safety First:

General Servicing Precautions

1. Always unplug the DVD AC power cord from the AC power source before:
 - (1) Removing or reinstalling any component, circuit board, module, or any other assembly.
 - (2) Disconnection or reconnecting any internal electrical plug or other electrical connection.
 - (3) Connecting a test substitute in parallel with an electrolytic capacitor.
Caution : A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
2. Do not spray chemicals on or near this DVD or any of its assemblies.
3. Unless specified otherwise in this service data, clean electrical contacts by applying an appropriate contact cleaning solution to the contacts with a pipe cleaner, cotton-tipped swab, or comparable soft applicator. Unless specified otherwise in this service data, lubrication of contacts is not required.
4. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.
5. Do not apply AC power to this DVD and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
6. Always connect test instrument ground lead to the appropriate ground before connection the test instrument positive lead. Always remove the test instrument ground lead last.

Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power on. Connect an insulation resistance meter(500V) to the blades of the attachment plug. The insulation resistance between each blade of the attachment plug and accessible conductive parts (Note 1) should be more than 1M-ohm.

Note 1 : Accessible Conductive Parts including Metal panels, Input terminals, Earphone jacks, etc.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor chip components.

The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified a "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charge sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil, or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Normally harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

SPECIFICATIONS

• GENERAL

Power requirements:	AC 110-240 V , 50/60 Hz
Power consumption:	8W
Dimensions (Approx.):	430 x 35 x 242 mm (W x H x D) without foot
Weight (Approx.):	1.9 kg
Operating temperature:	5 °C to 35 °C (41 °F to 95 °F)
Operating humidity:	5 % to 90 %

• OUTPUTS

VIDEO OUT:	1 Vp-p 75 Ω, sync negative, RCA jack x 1 / SCART (TO TV)
COMPONENT VIDEO OUT:	(Y) 1.0 V (p-p), 75 Ω, negative sync, RCA jack x 1 (Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack x 2
AUDIO OUT:	2.0 Vrms (1 KHz, 0 dB), 600 Ω, RCA jack (L, R) x 1 / SCART (TO TV)
DIGITAL OUT (COAXIAL):	0.5 V (p-p), 75 Ω, RCA jack x 1

• SYSTEM

Laser:	Semiconductor laser, wavelength 650 nm
Signal system:	PAL / NTSC
Frequency response:	DVD (PCM 96 kHz): 8 Hz to 44 kHz DVD (PCM 48 kHz): 8 Hz to 22 kHz CD: 8 Hz to 20 kHz
Signal-to-noise ratio:	More than 100 dB (ANALOG OUT connectors only)
Harmonic distortion:	Less than 0.008%
Dynamic range:	More than 95 dB (DVD/CD)

• ACCESSORIES

Remote control (1), Batteries (2)

SECTION 2
CABINET & MAIN CHASSIS

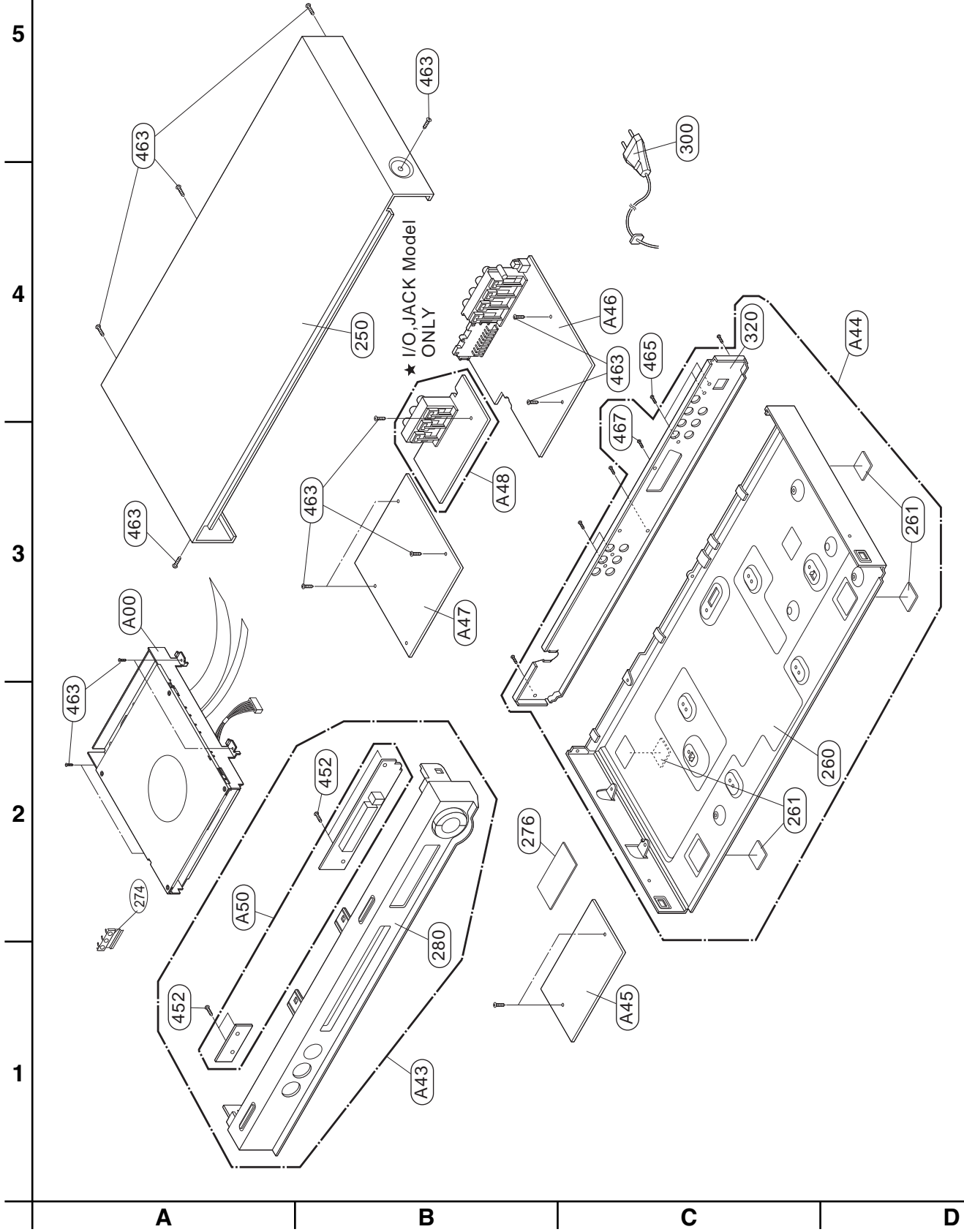
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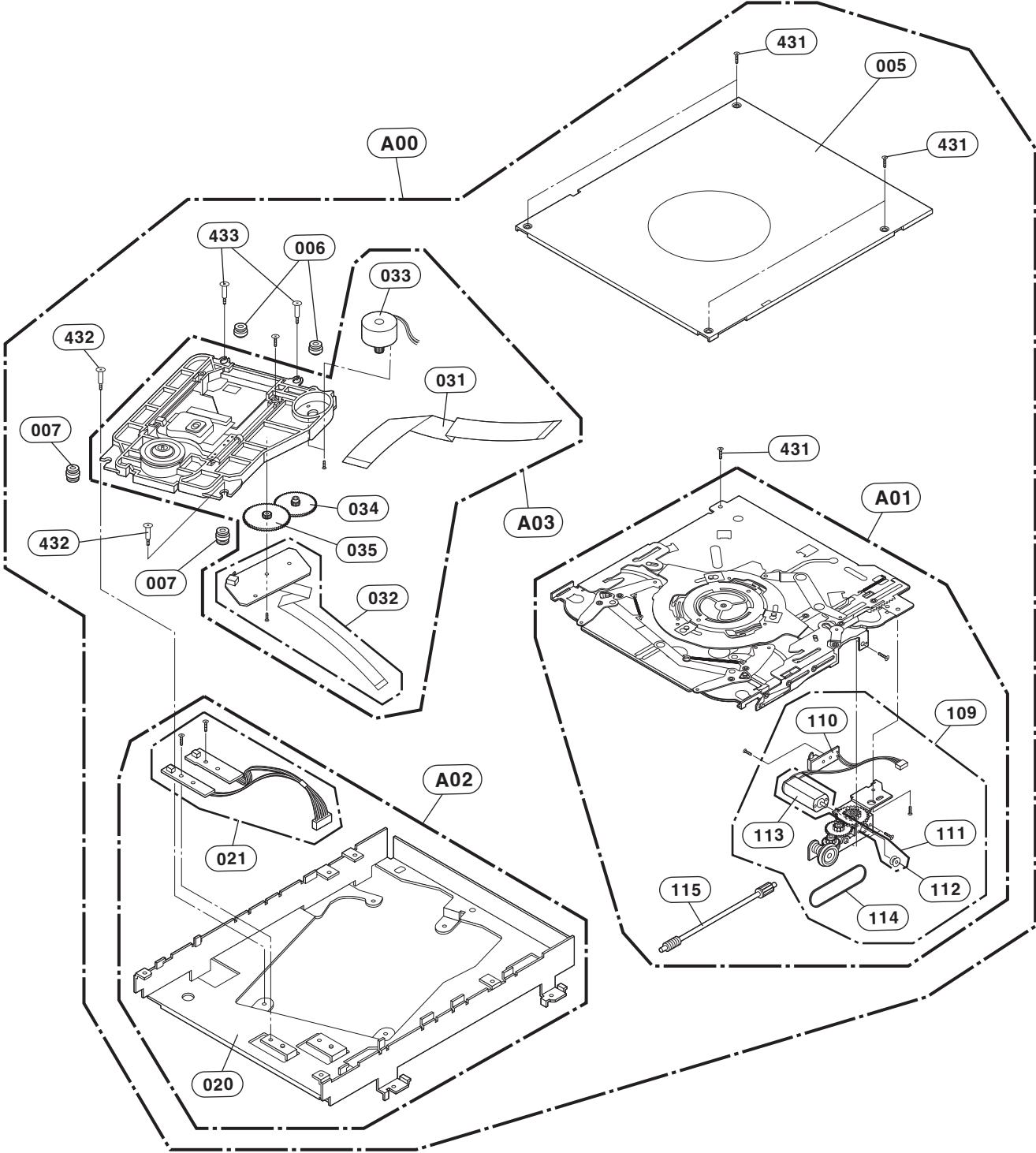
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EXPLODED VIEWS

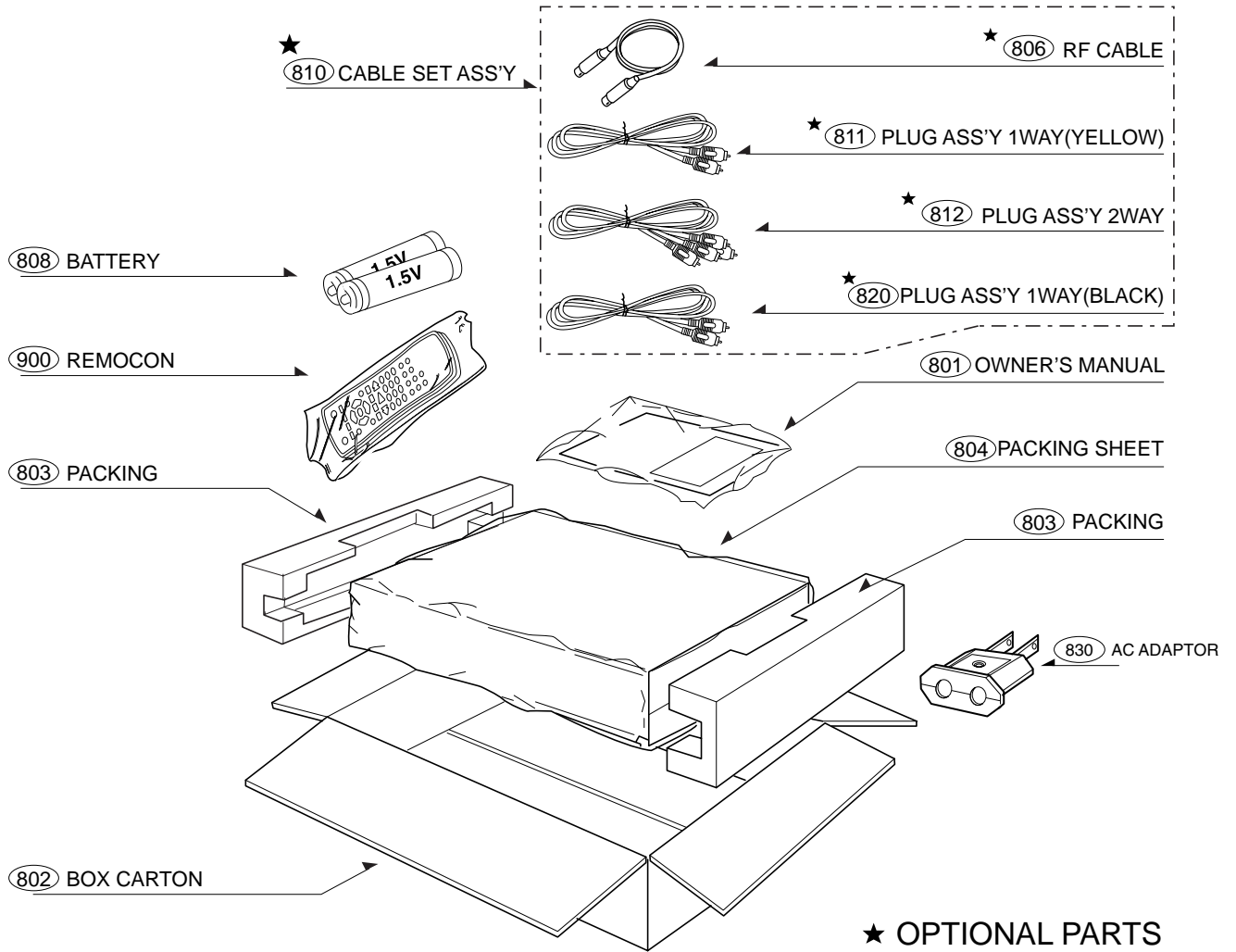
1. Cabinet and Main Frame Section



2. Deck Mechanism Section(DPS-02)



3. Packing Accessory Section

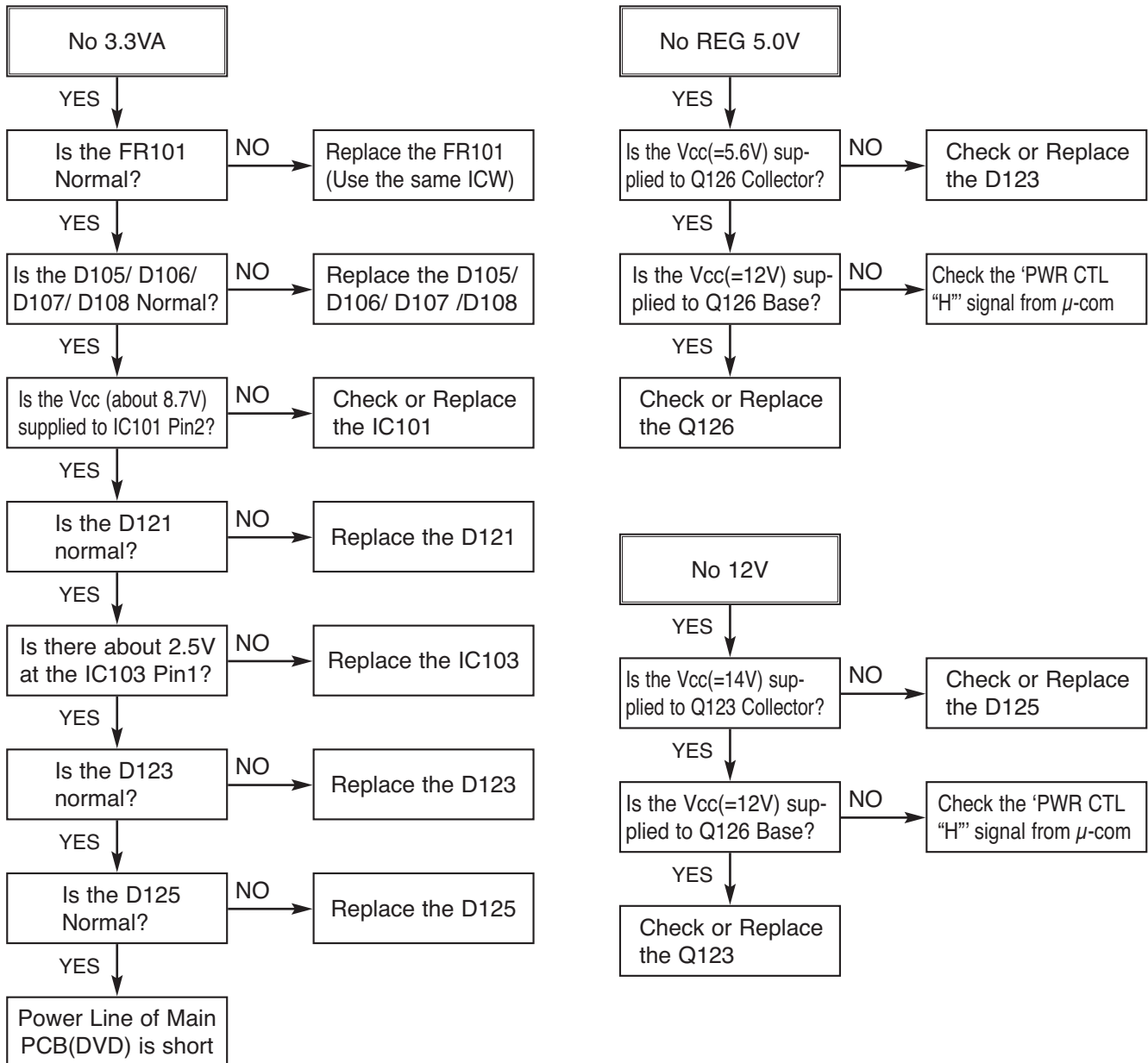


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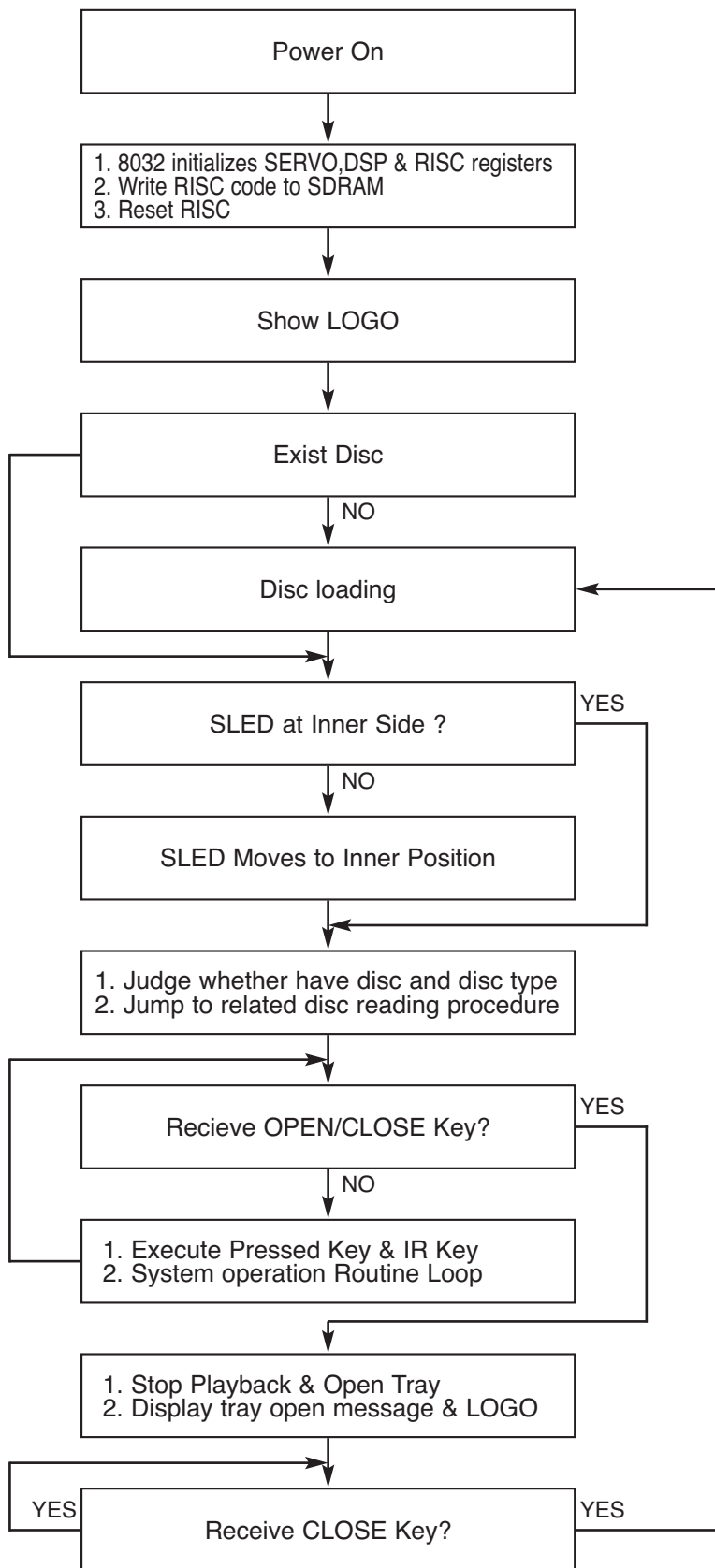
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ELECTRICAL TROUBLESHOOTING GUIDE

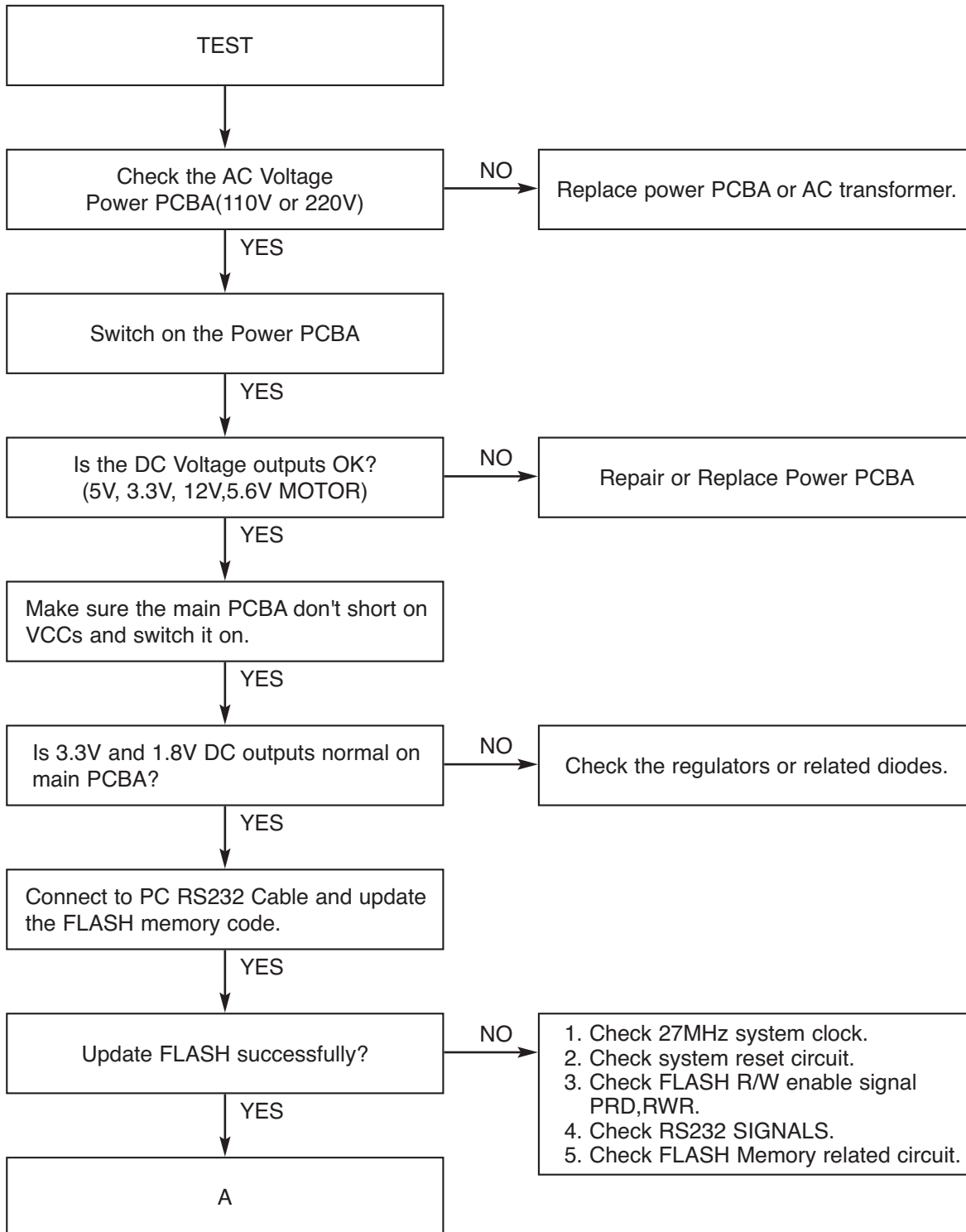
1. Power check flow

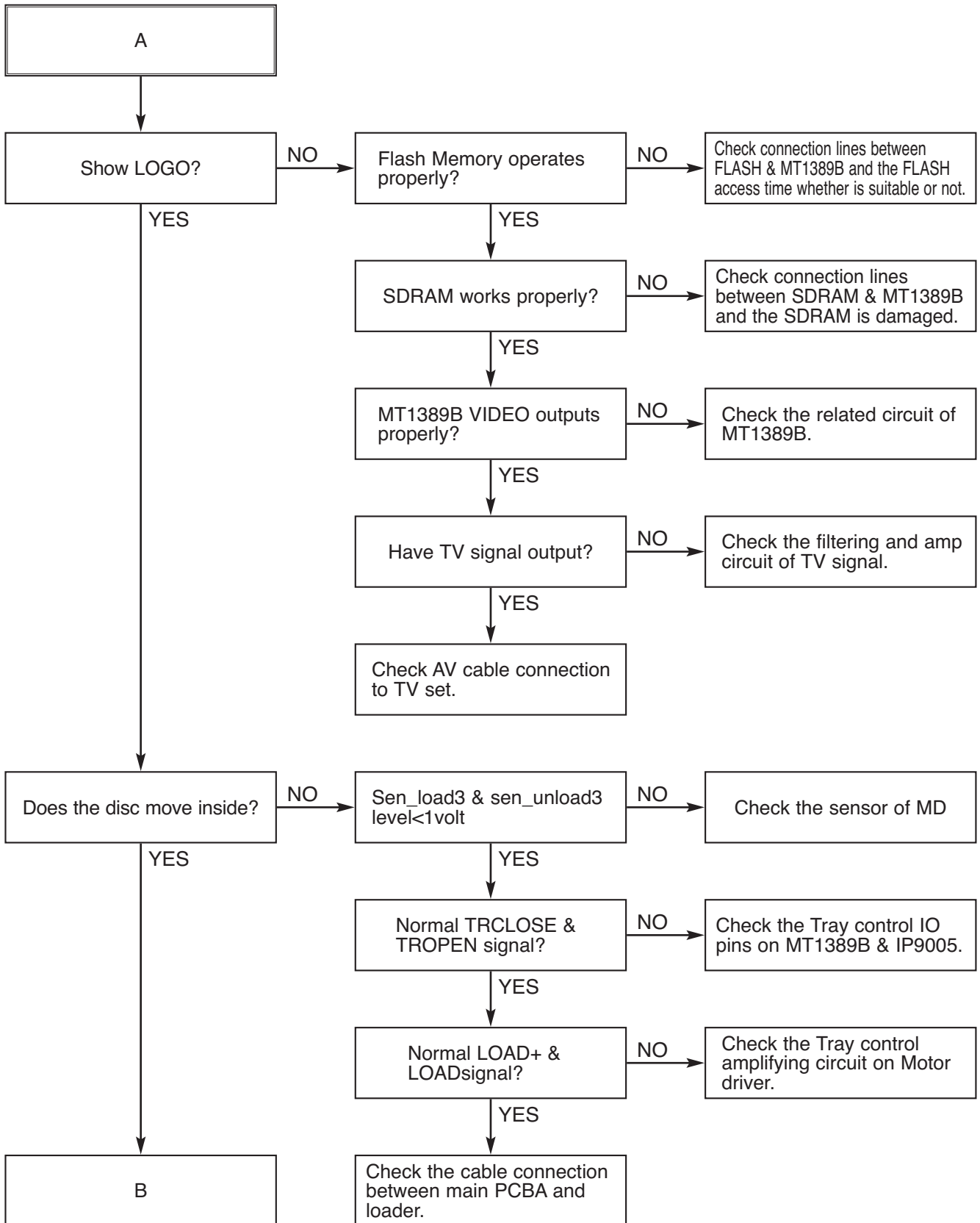


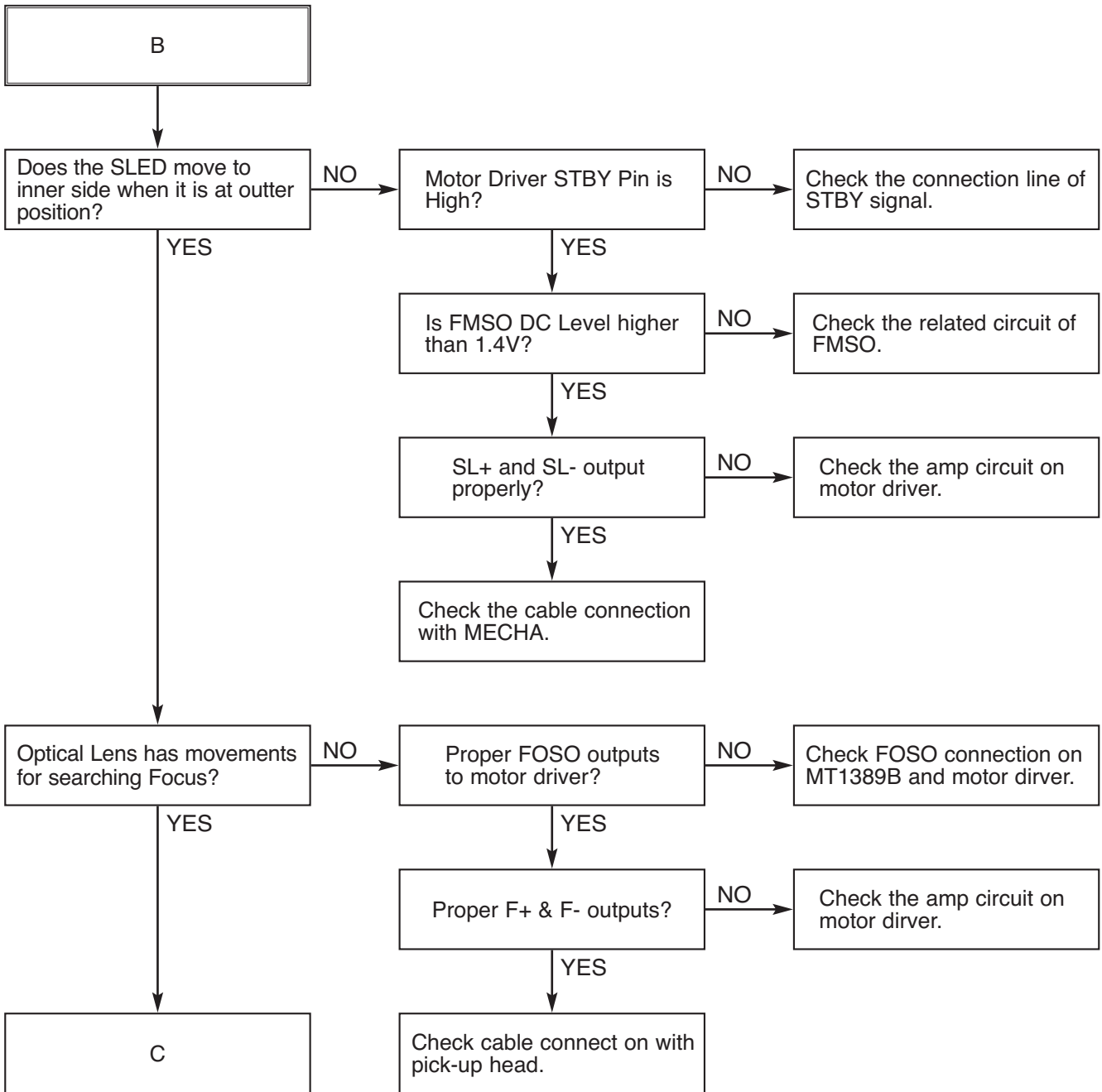
2. System operation flow

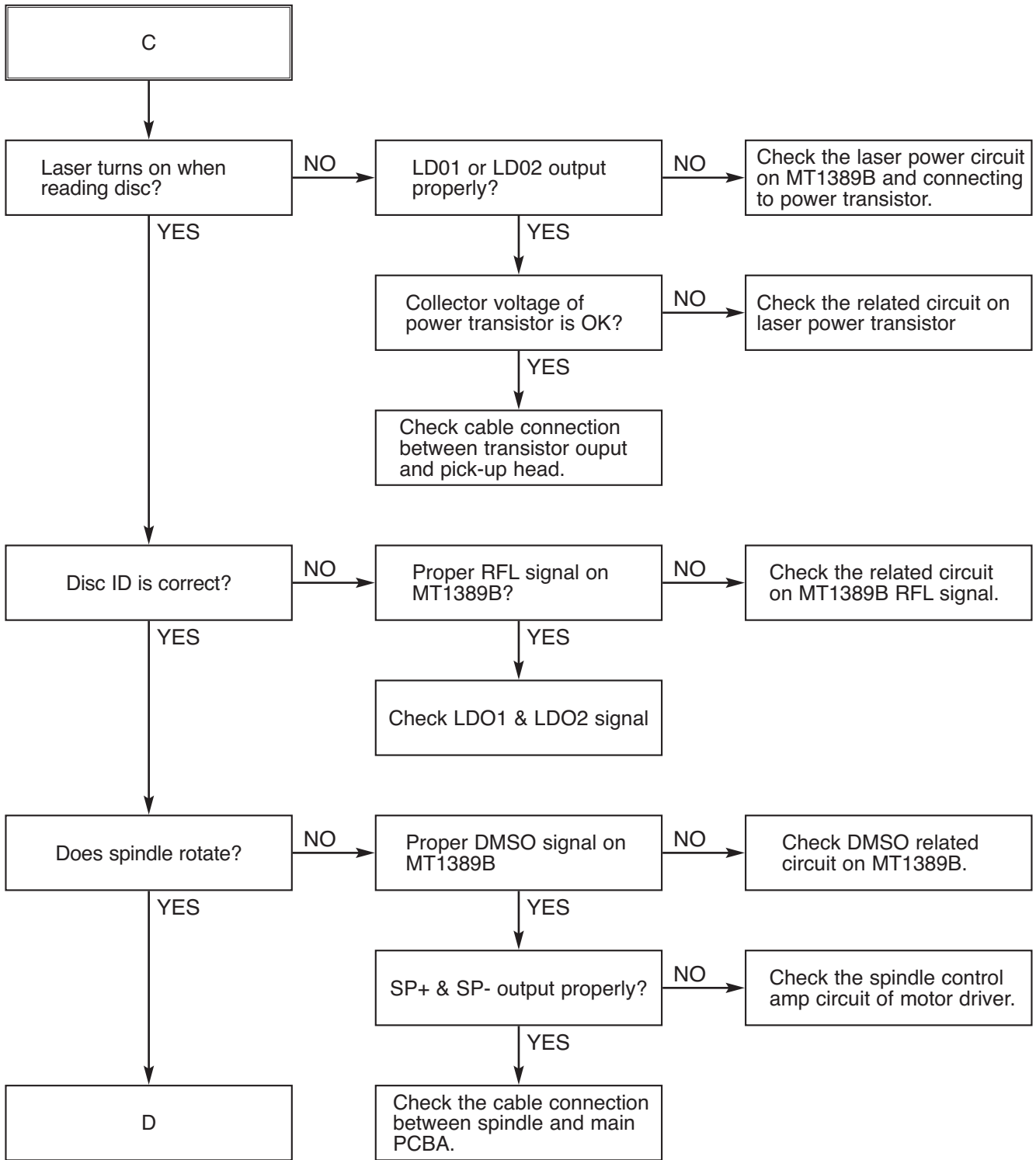


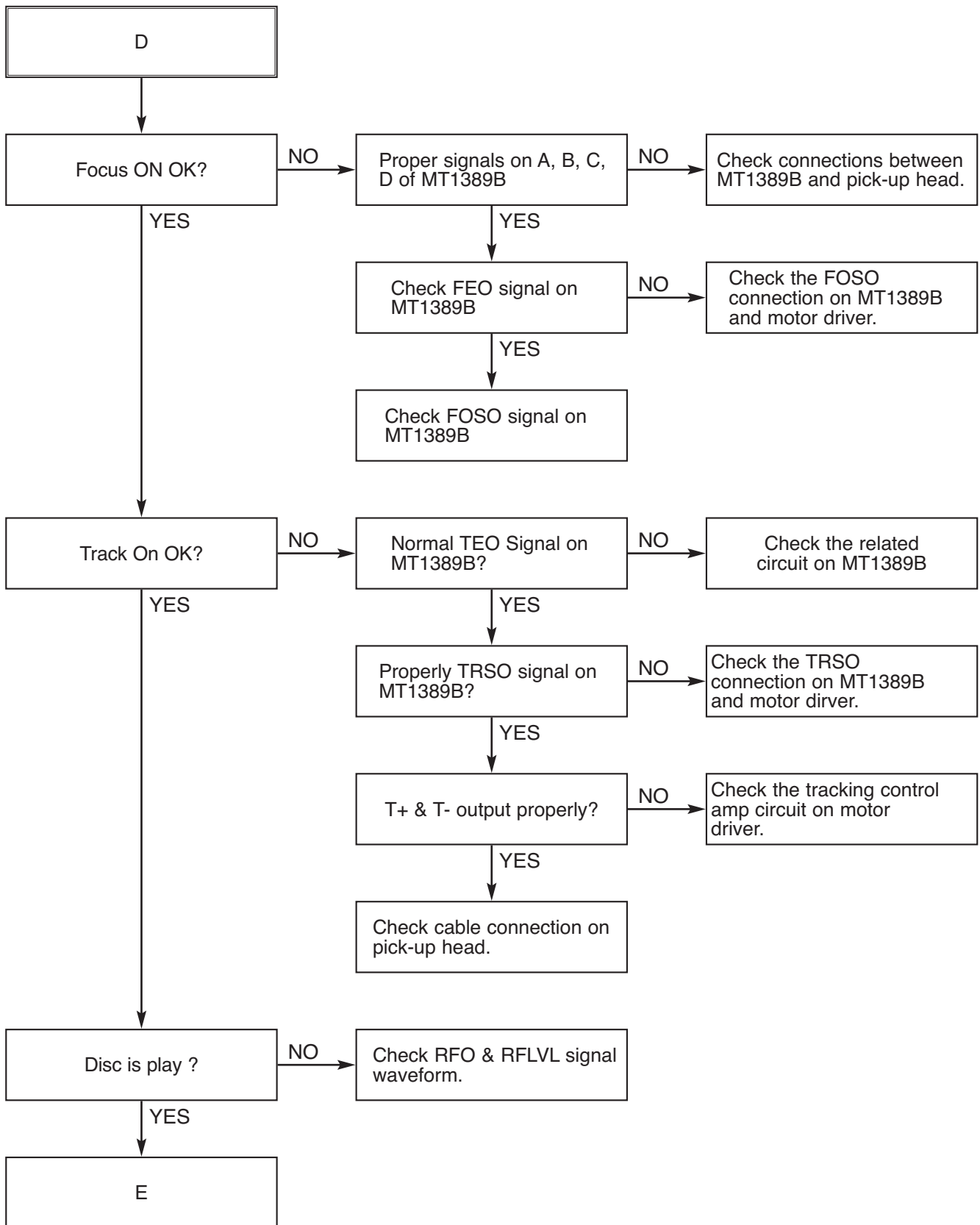
3. Test & debug flow

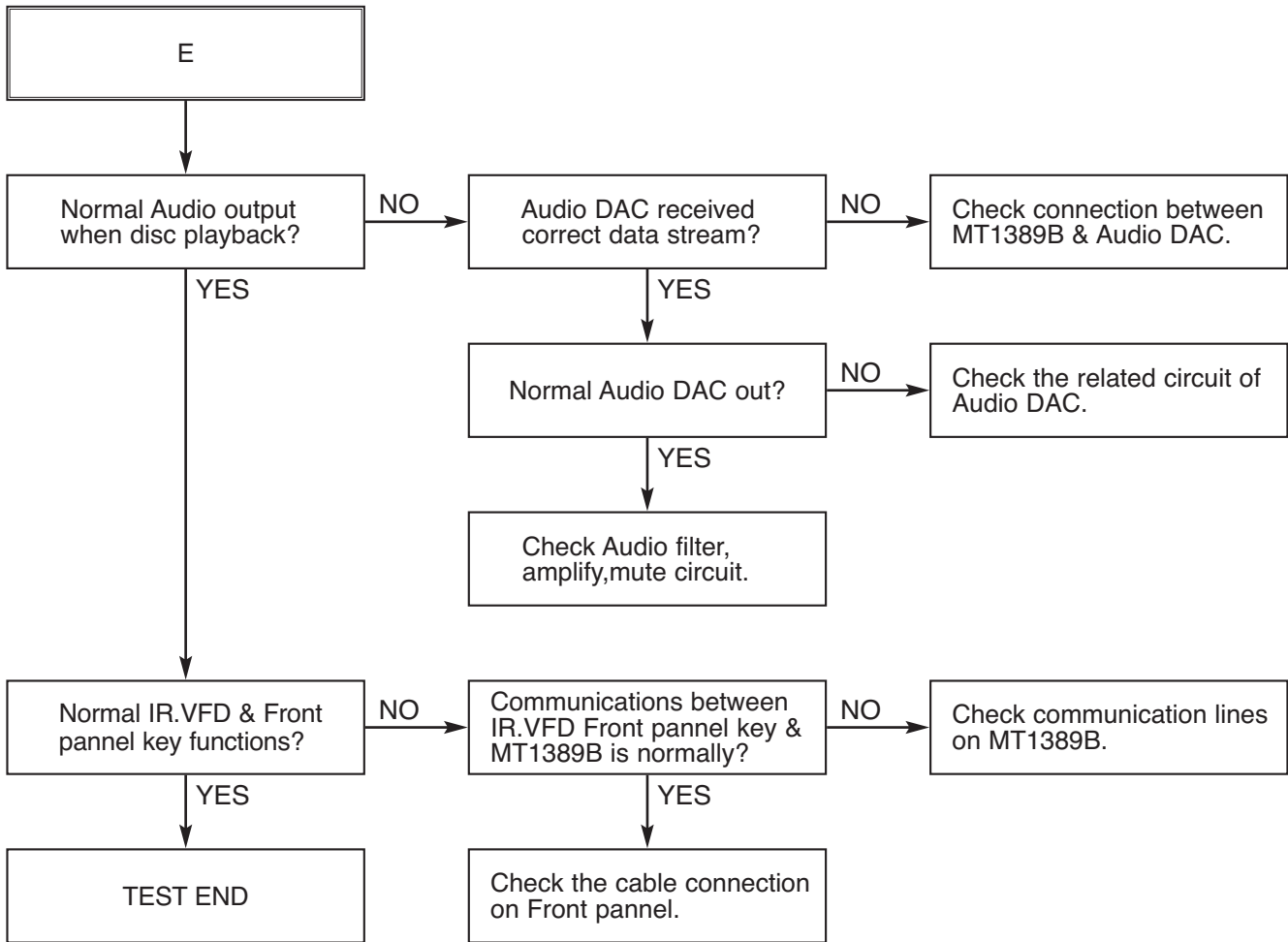












DETAILS AND WAVEFORMS ON SYSTEM TEST AND DEBUGGING

1. SYSTEM 27MHz CLOCK,RESET,FLASH R/W SIGNAL.

1) MT1389B main clock is at 27MHz(X501)

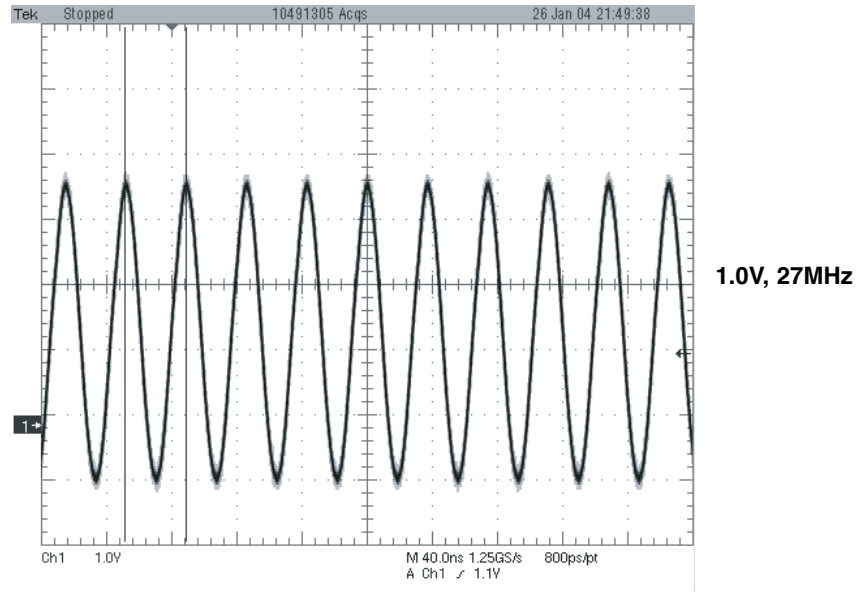


FIG 1-1

2) MT1389B reset is low active.

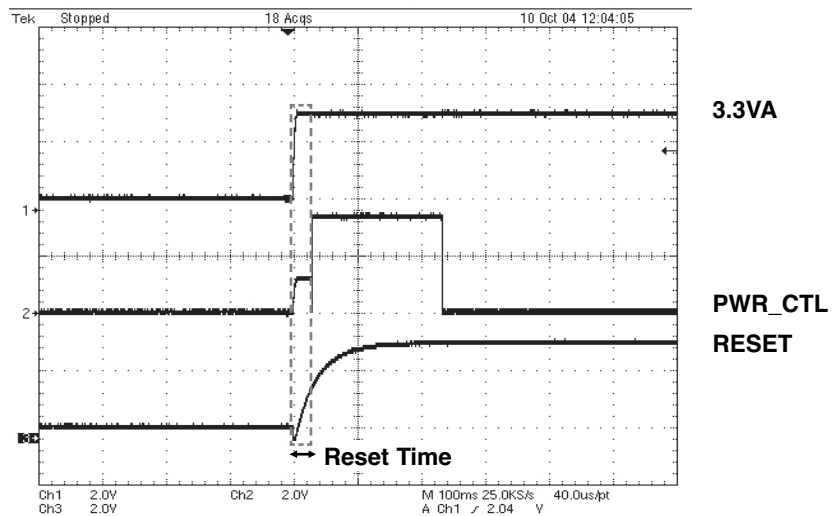


FIG 1-2

3) RS232 waveform during procedure(Downloading)

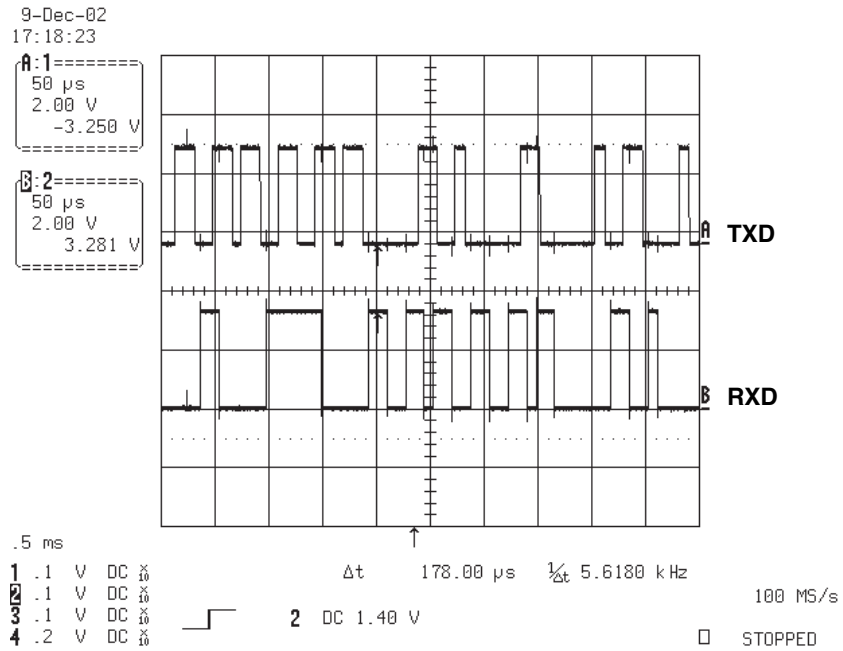


FIG 1-3

4) Flash R/W enable signal during download(Downloading)

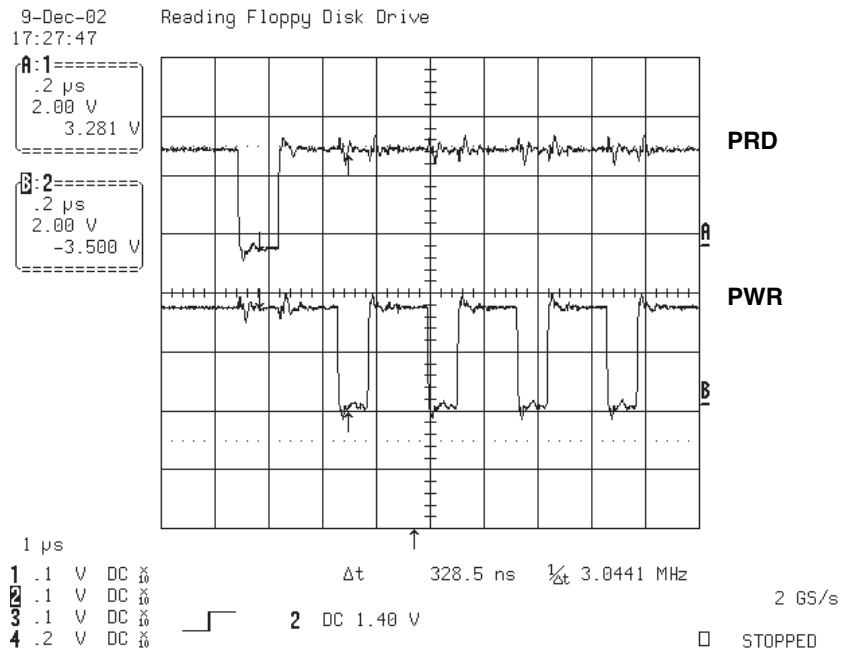


FIG 1-4

2. SDRAM CLOCK

DCLK = 128MHz, Vp-p=2.2, Vmax=2.7V

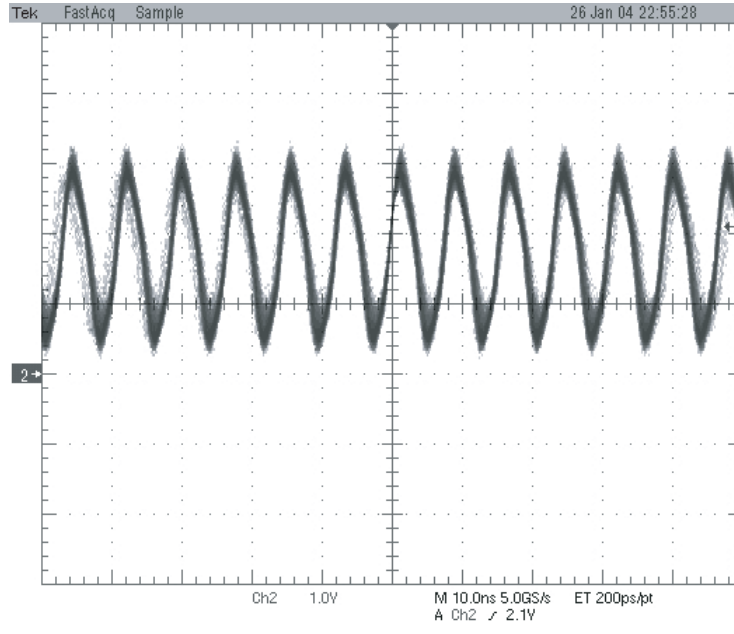


FIG 2-1

3. LOADING CONTROL RELATED SIGNAL

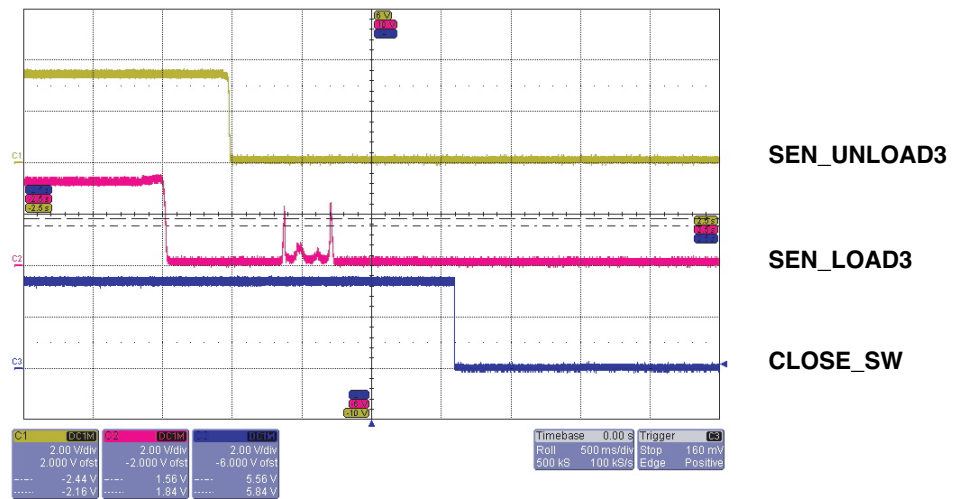


FIG 3-1

4. SLED CONTROL RELATED SIGNAL (NO DISC CONDITION)

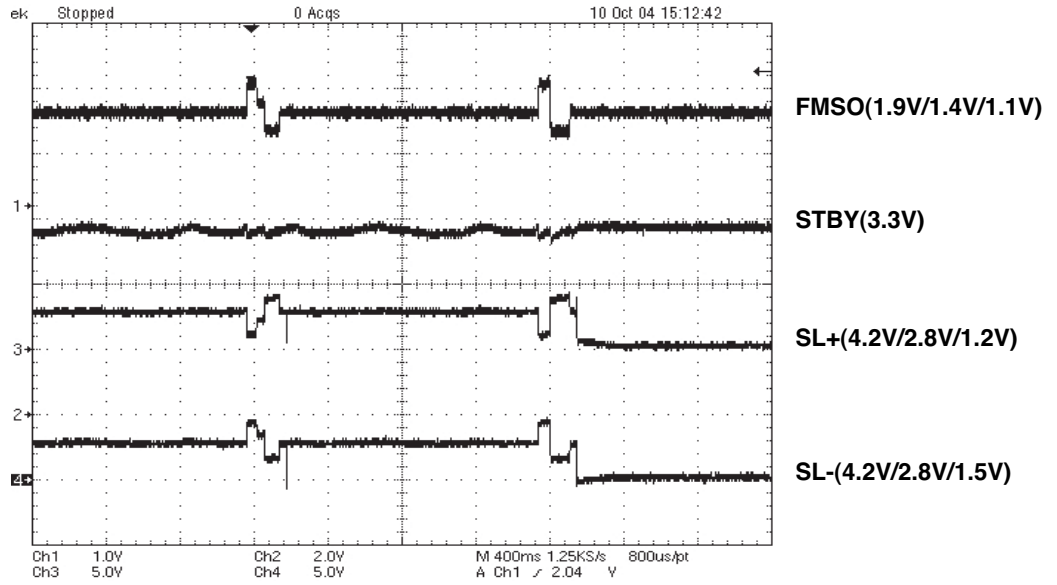


FIG 4-1

5. LENS CONTROL RELATED SIGNAL(NO DISC CONDITION)

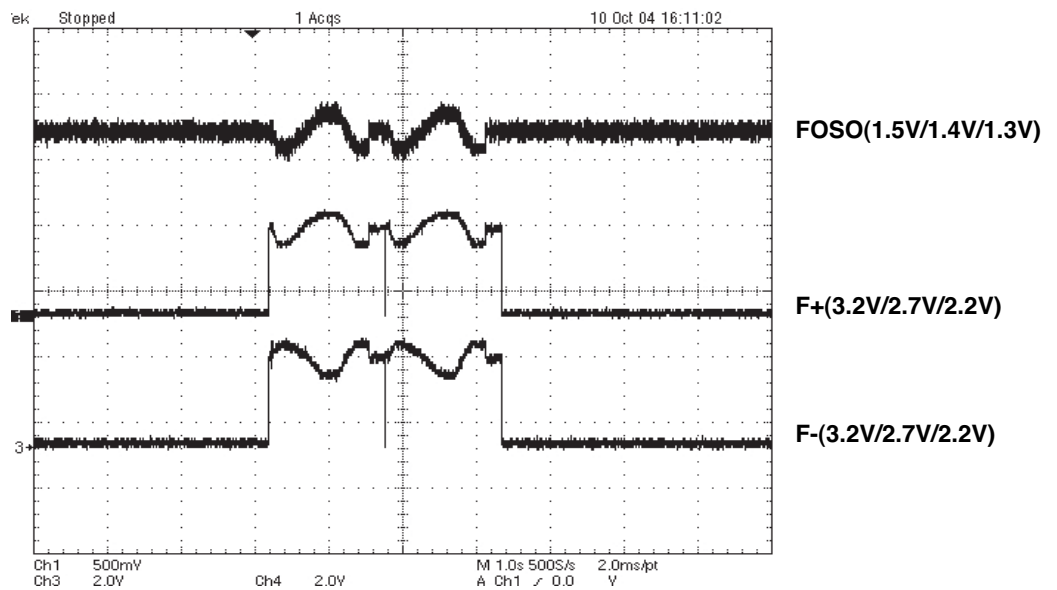


FIG 5-1

6. LASER POWER CONTROL RELATED SIGNAL(NO DISC CONDITION)

DCLK = 128MHz, Vp-p=2.2, Vmax=2.7V

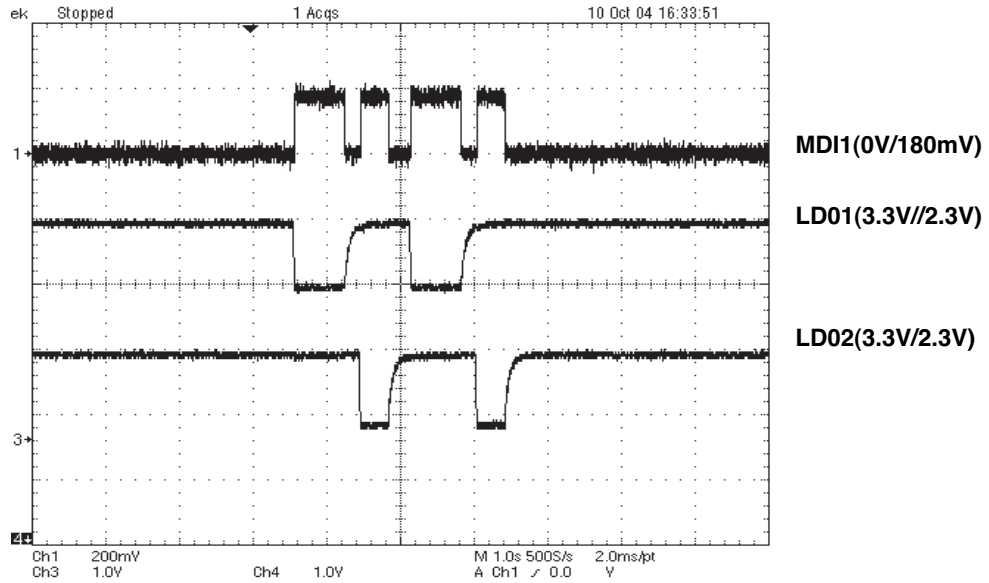


FIG 7-2 (DVD)

7. DISC TYPE JUDGEMENT WAVEFORM

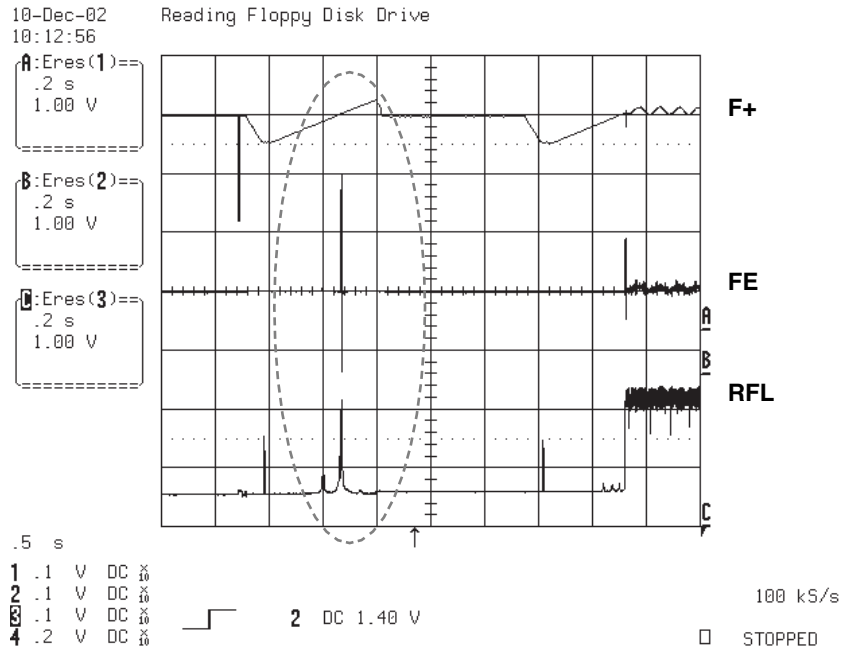


FIG 7-1

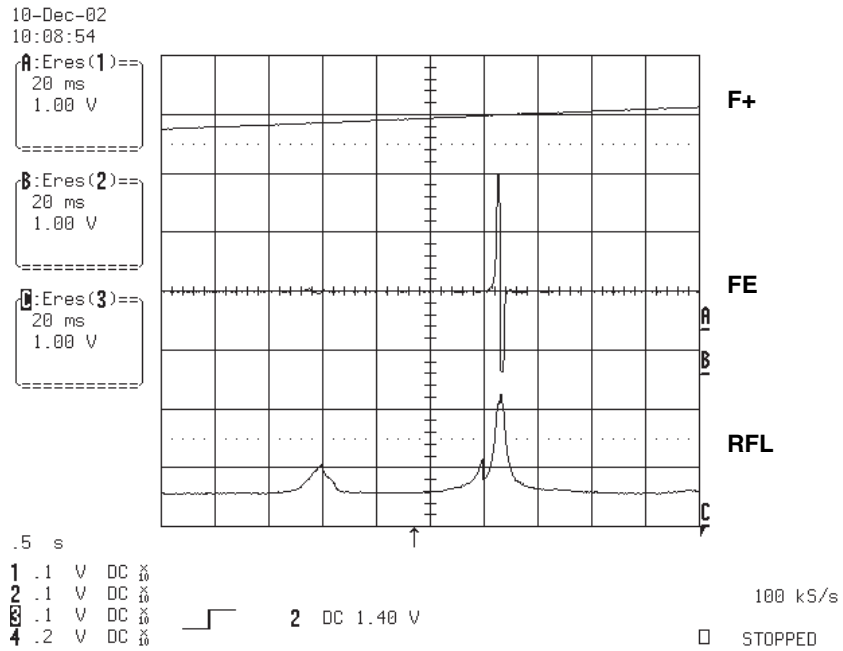


FIG 7-2 (DVD)

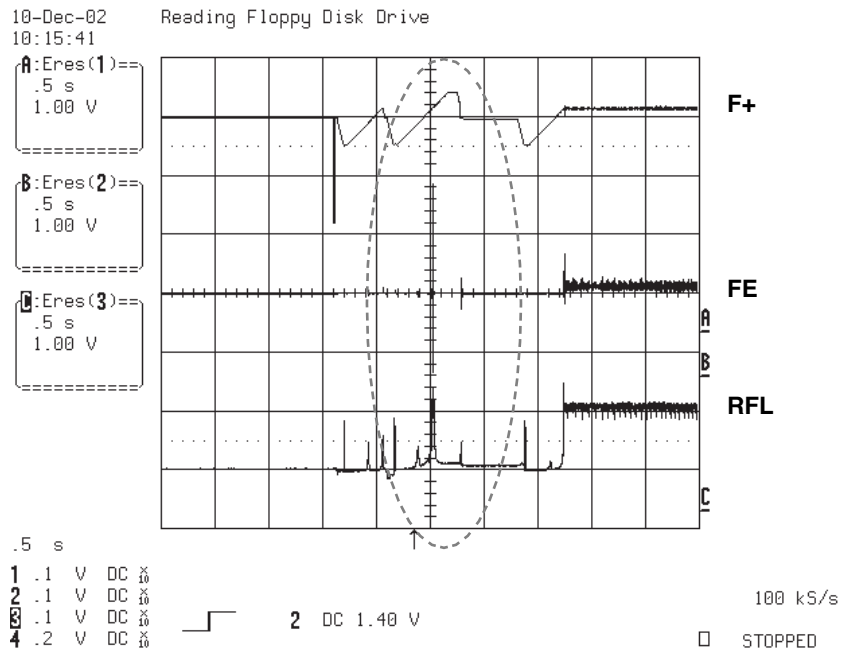


FIG 7-3 (CD)

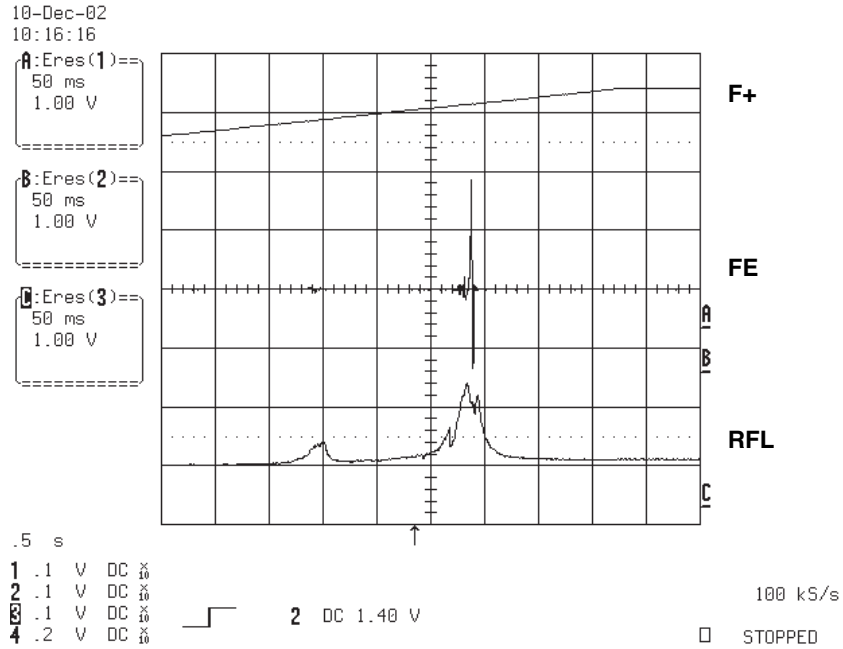


FIG 7-4 (CD)

8. FOCUS ON WAVEFORM

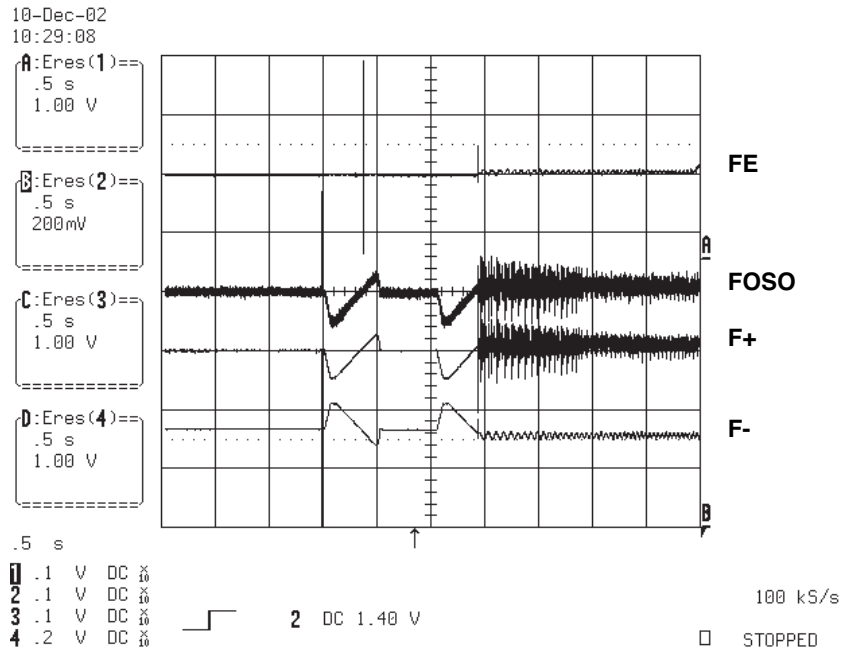


FIG 8-1 (DVD)

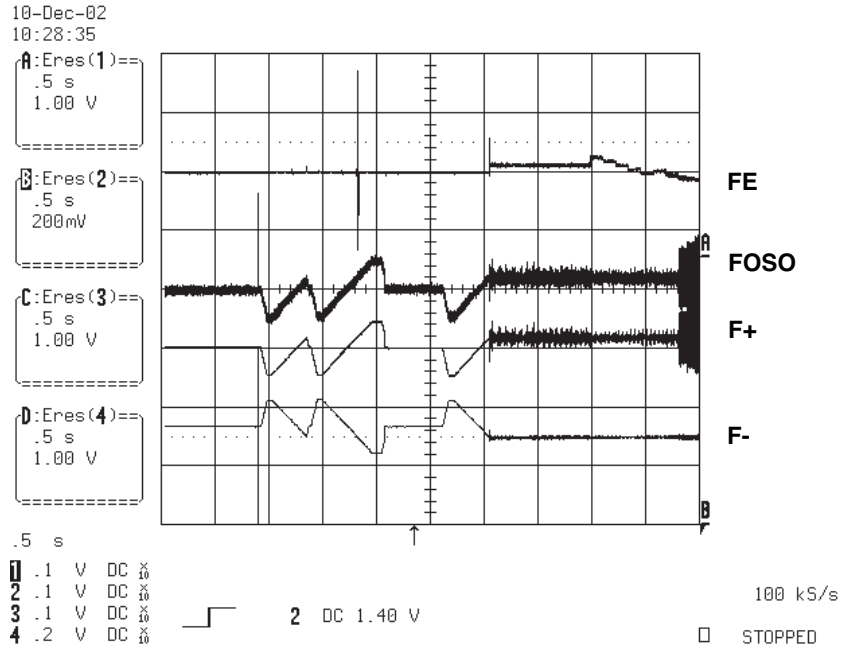


FIG 8-2 (CD)

9. SPINDLE CONTROL WAVEFORM (NO DISC CONDITION)

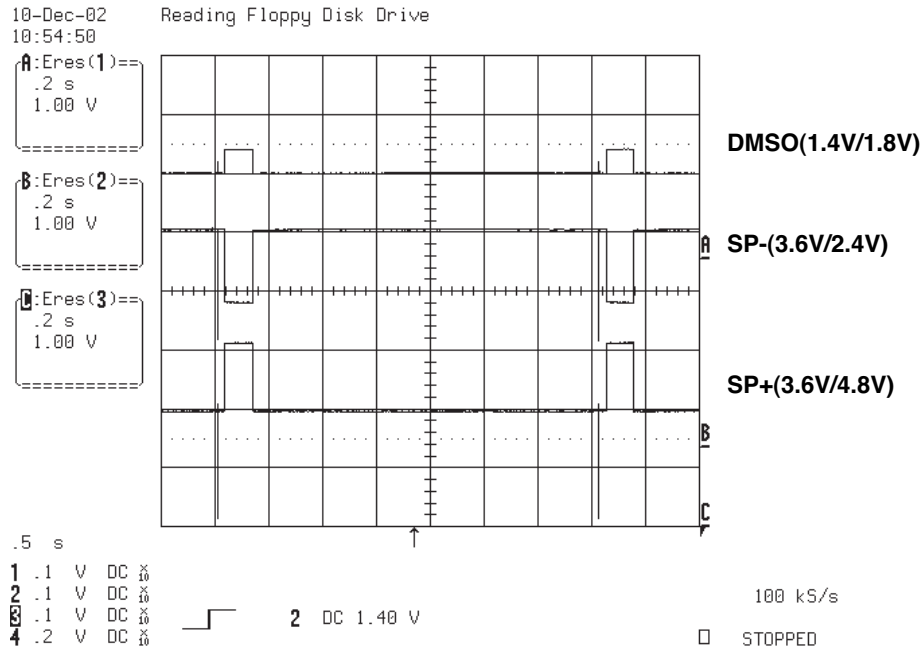


FIG 9-1

10. TRACKING CONTROL RELATED SIGNAL(System checking)

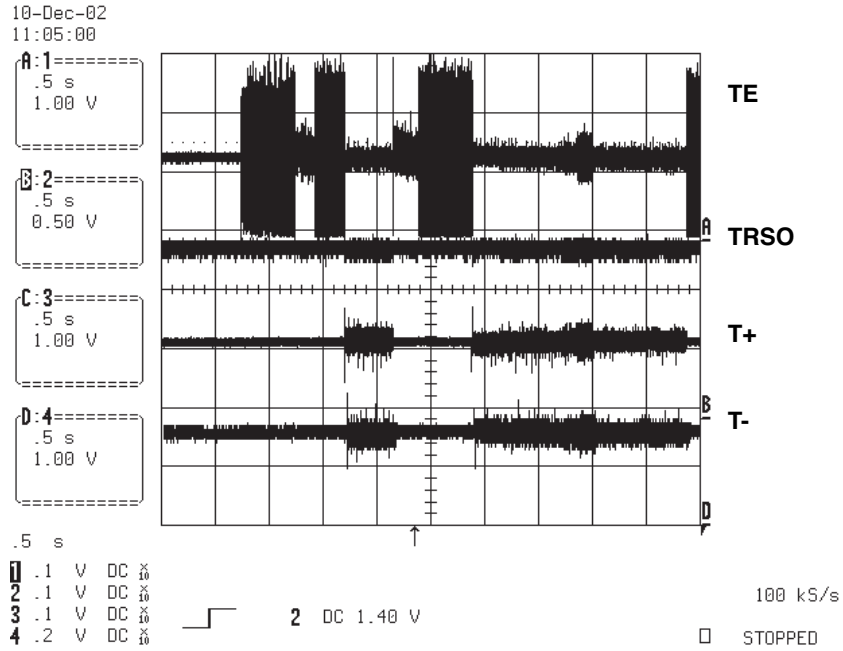


FIG 10-1 (DVD)

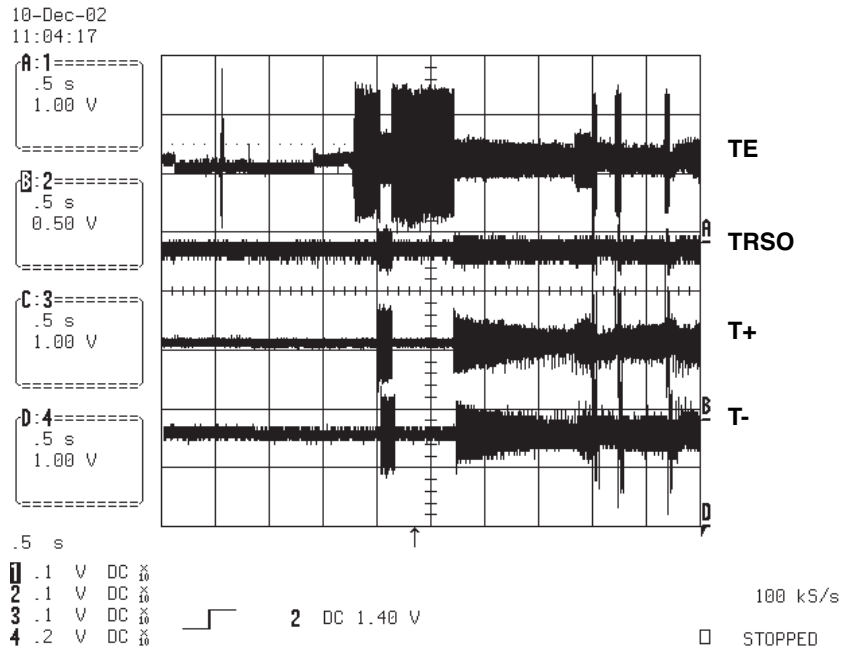


FIG 10-2 (CD)

11. MT1389B AUDIO OPTICAL AND COAXIAL OUTPUT (SPDIF)

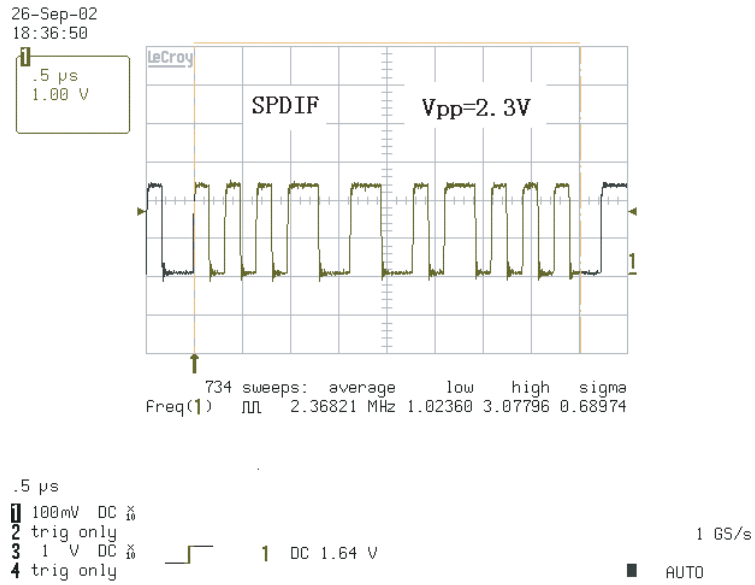


FIG 11-1

12. MT1389B VIDEO OUTPUT WAVEFORM

1) 100%

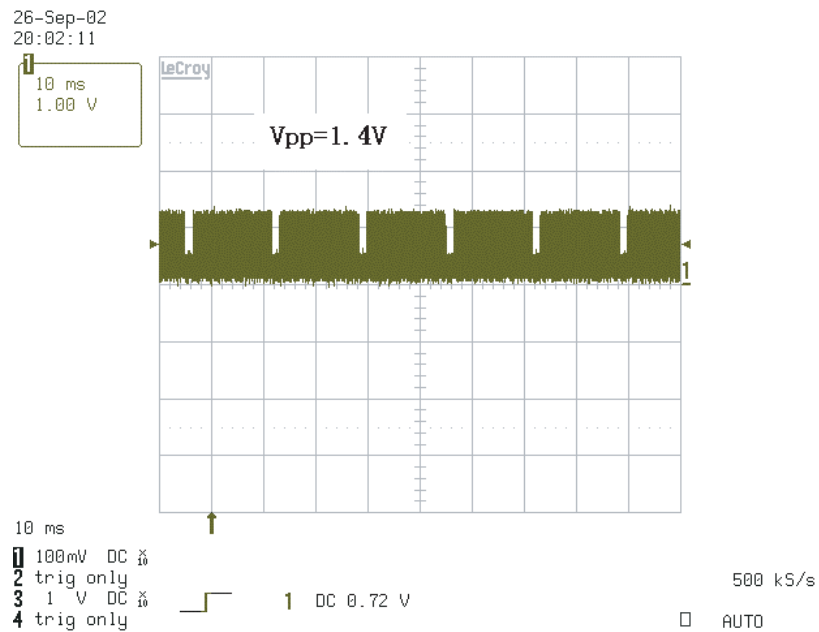


FIG 12-1

2) COMPOSITE VIDEO SIGNAL

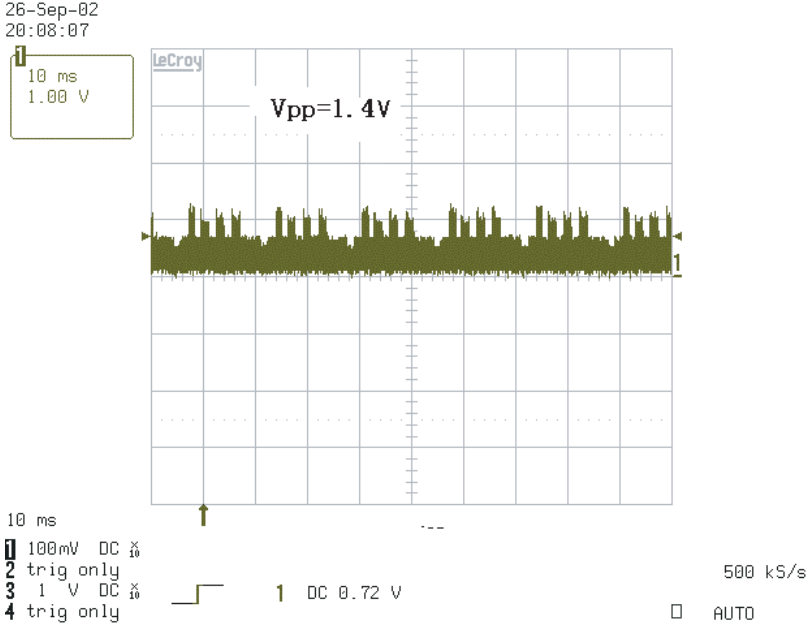


FIG 12-2

13. MT1389B AUDIO OUTPUT TO AUDIO DAC

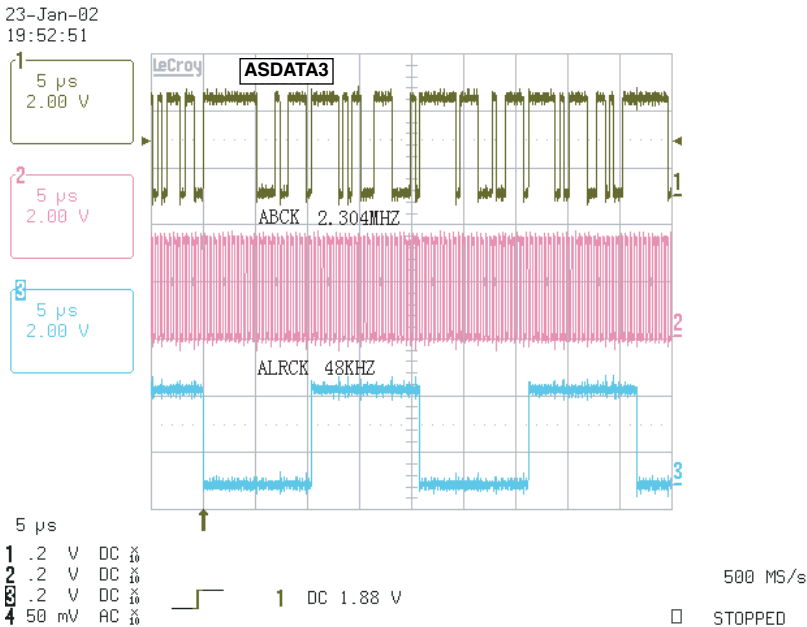


FIG 13-1

14. AUDIO OUTPUT FROM AUDIO DAC

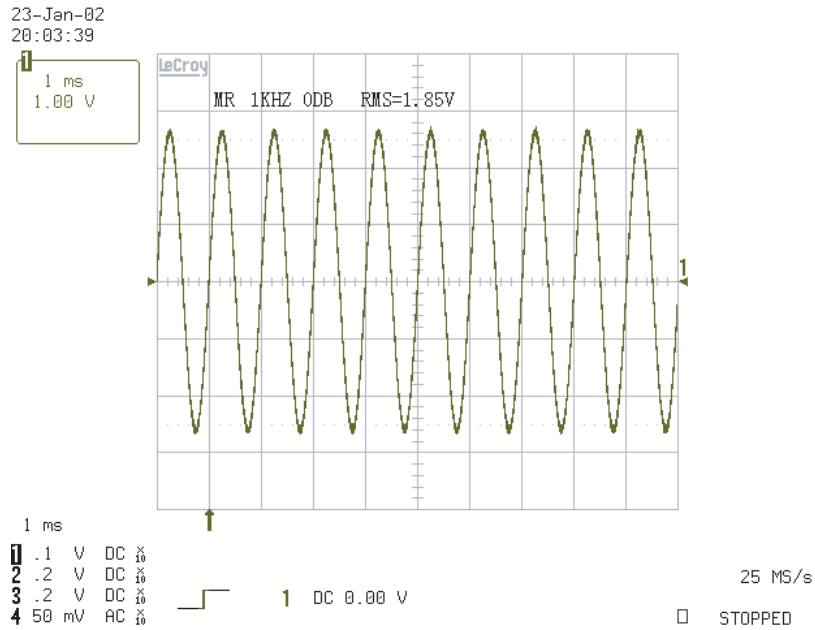


FIG 14-1

15. MEMORY SLOT DATA SIGNAL

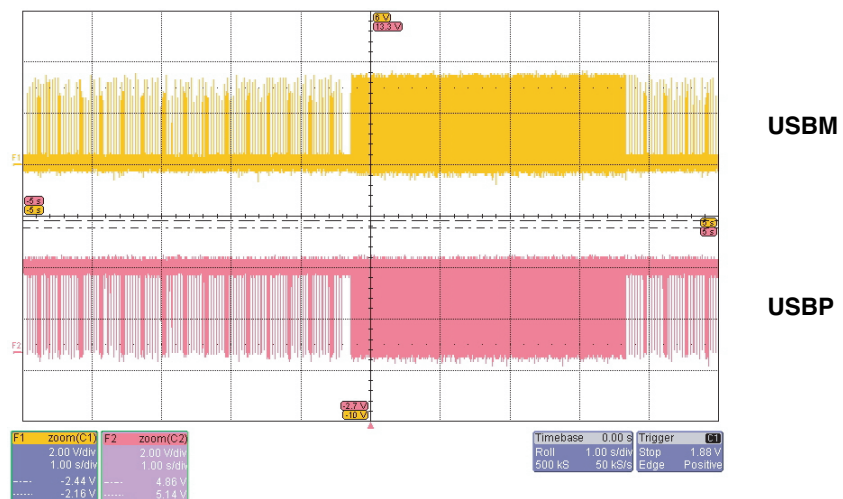
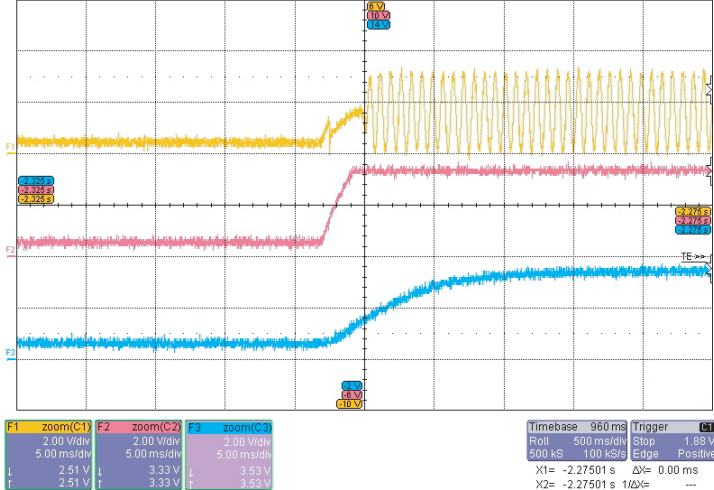


FIG 15-1

16. MEMORY CLOCK & RESET SIGNAL



X1001(12Mhz)

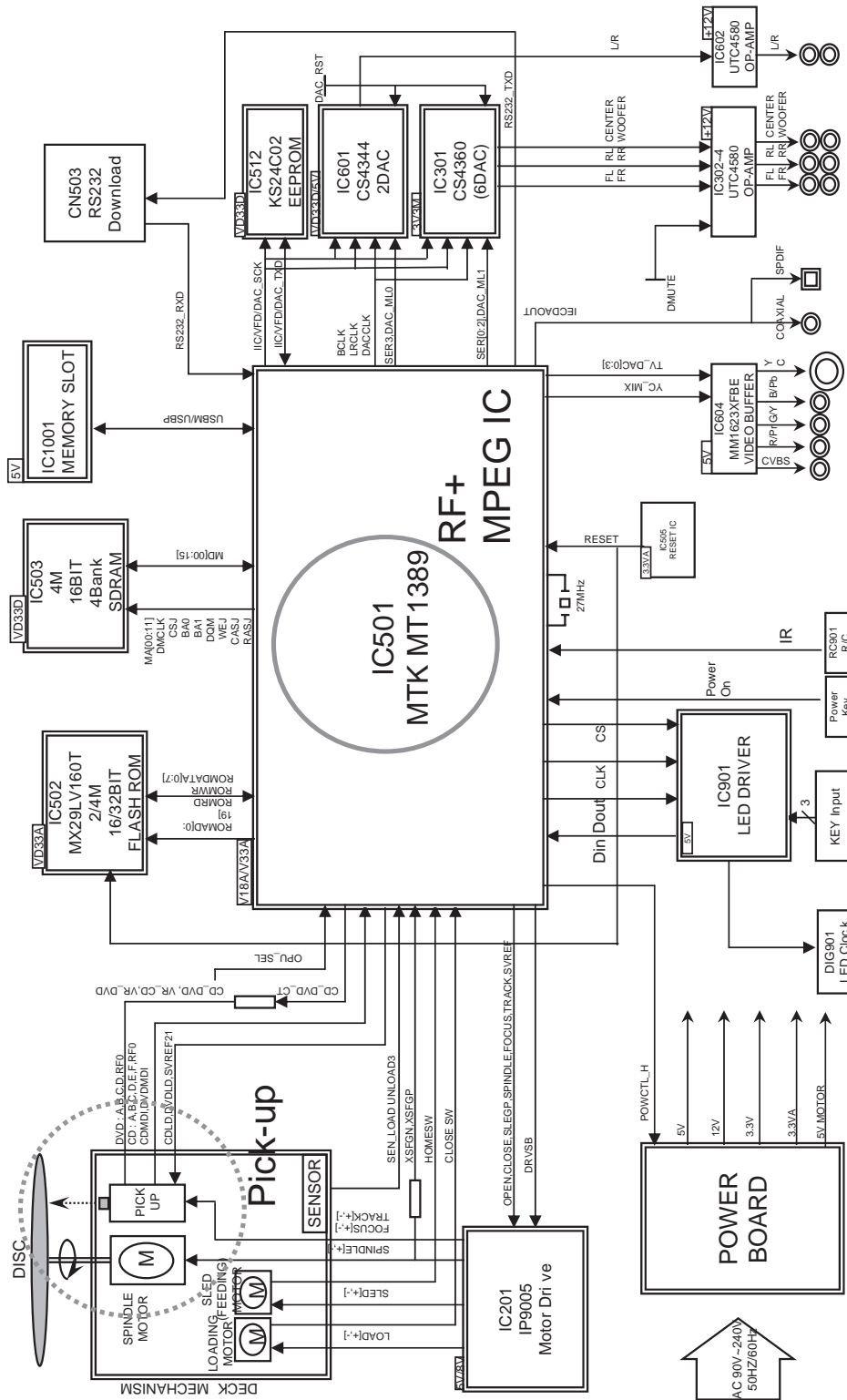
IC1003 (3pin)

RESETn
(C1003 1pin)

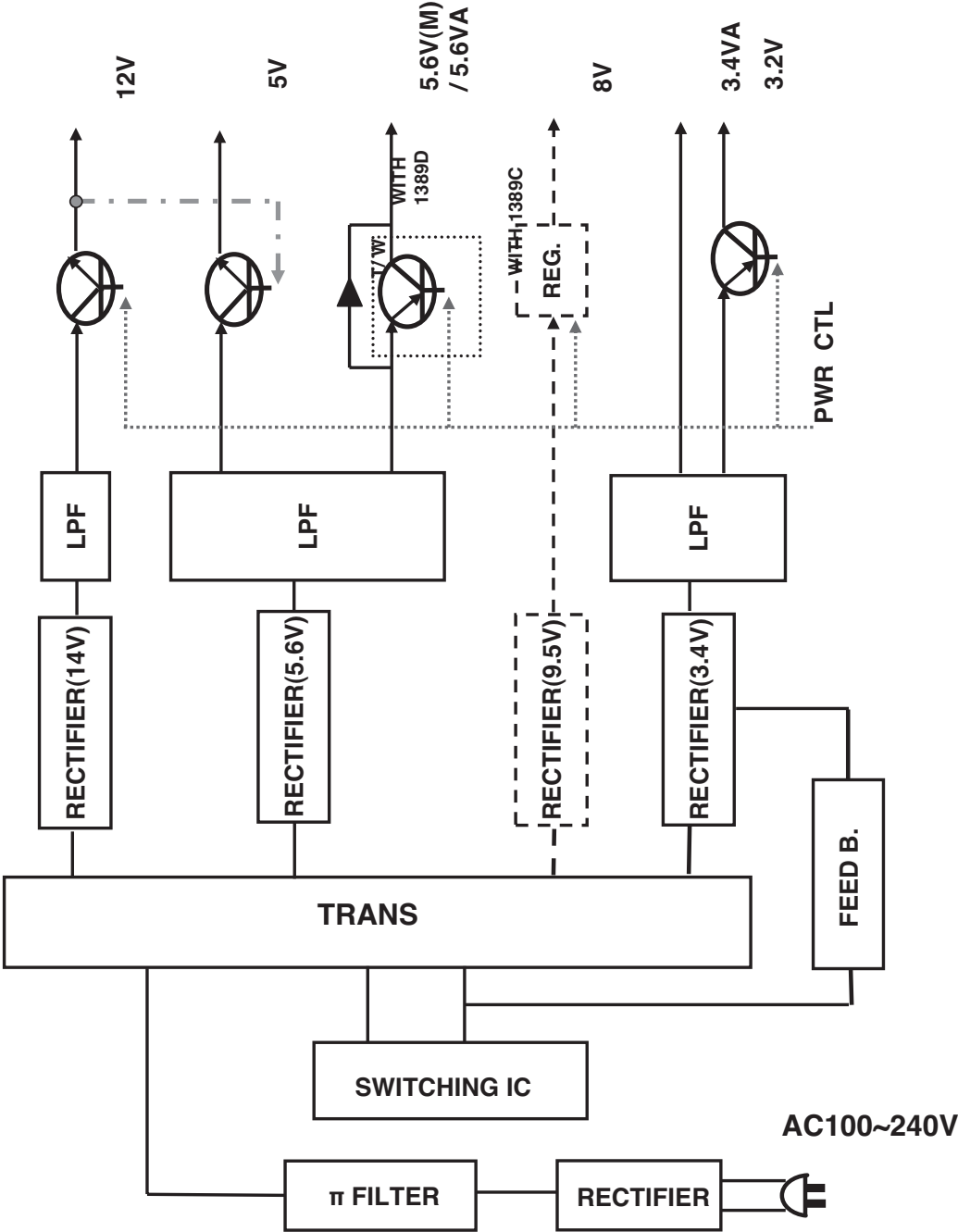
FIG 16-1

BLOCK DIAGRAMS

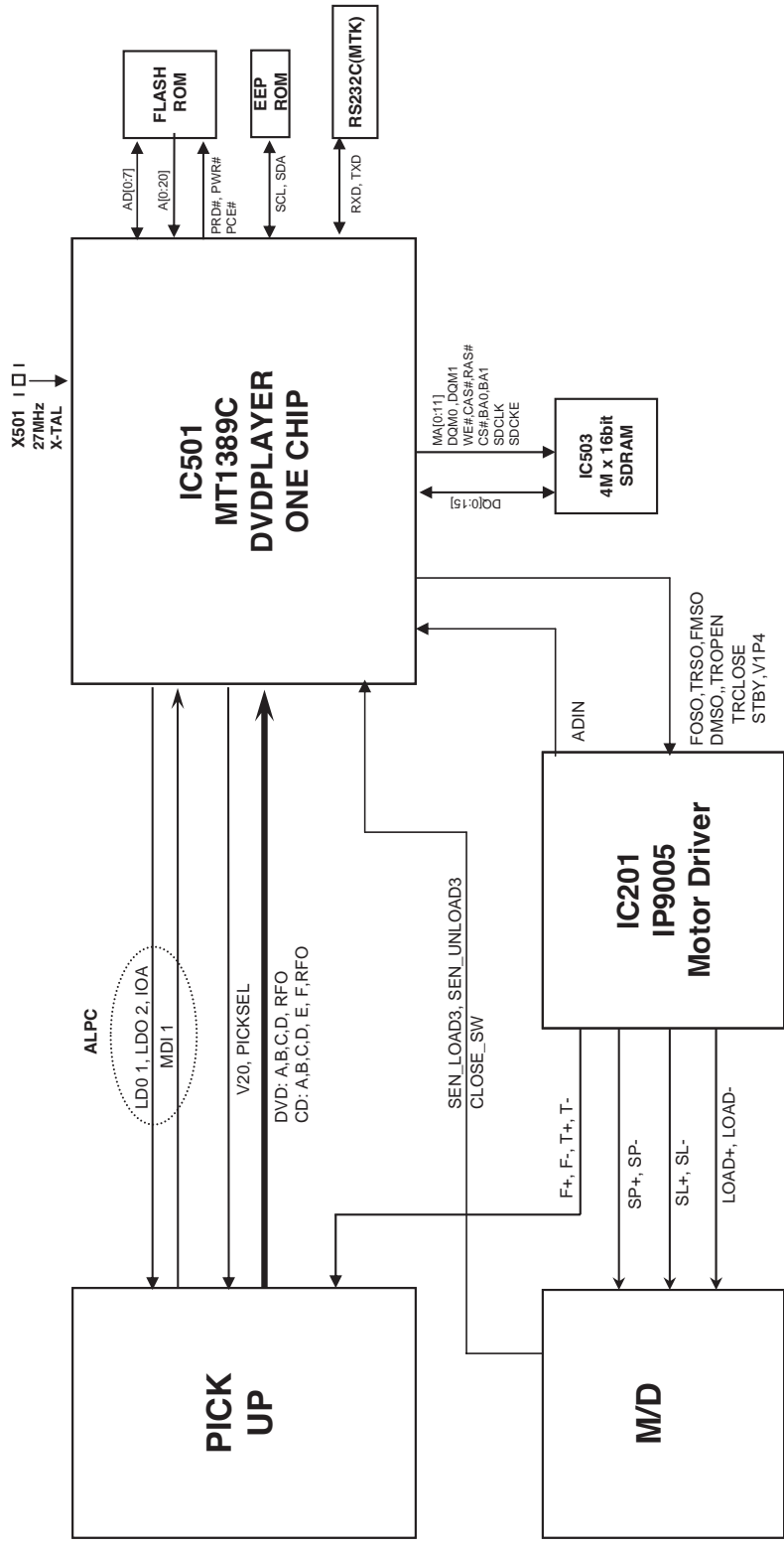
1. Overall Block Diagram



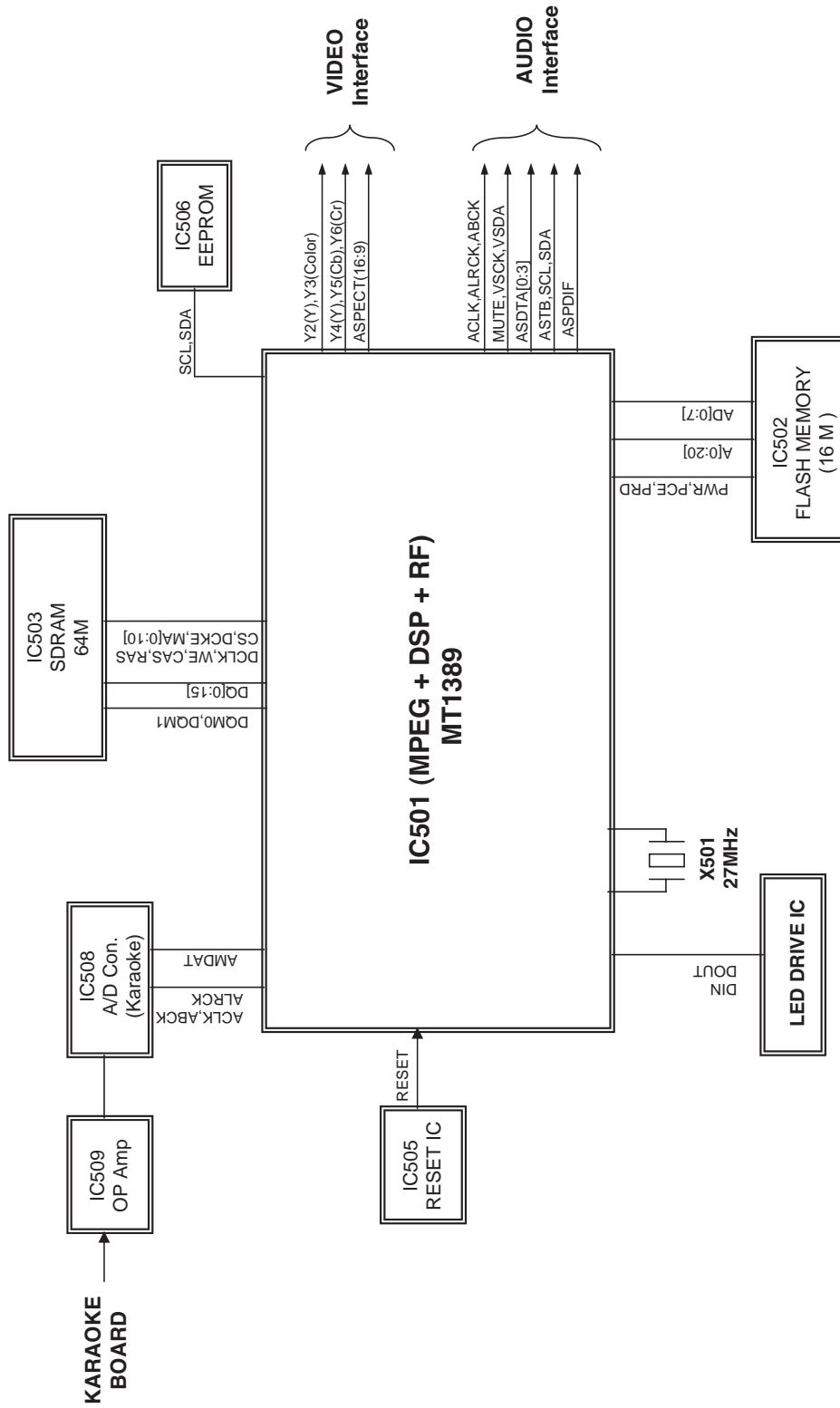
2. Power(SMPS) Block Diagram



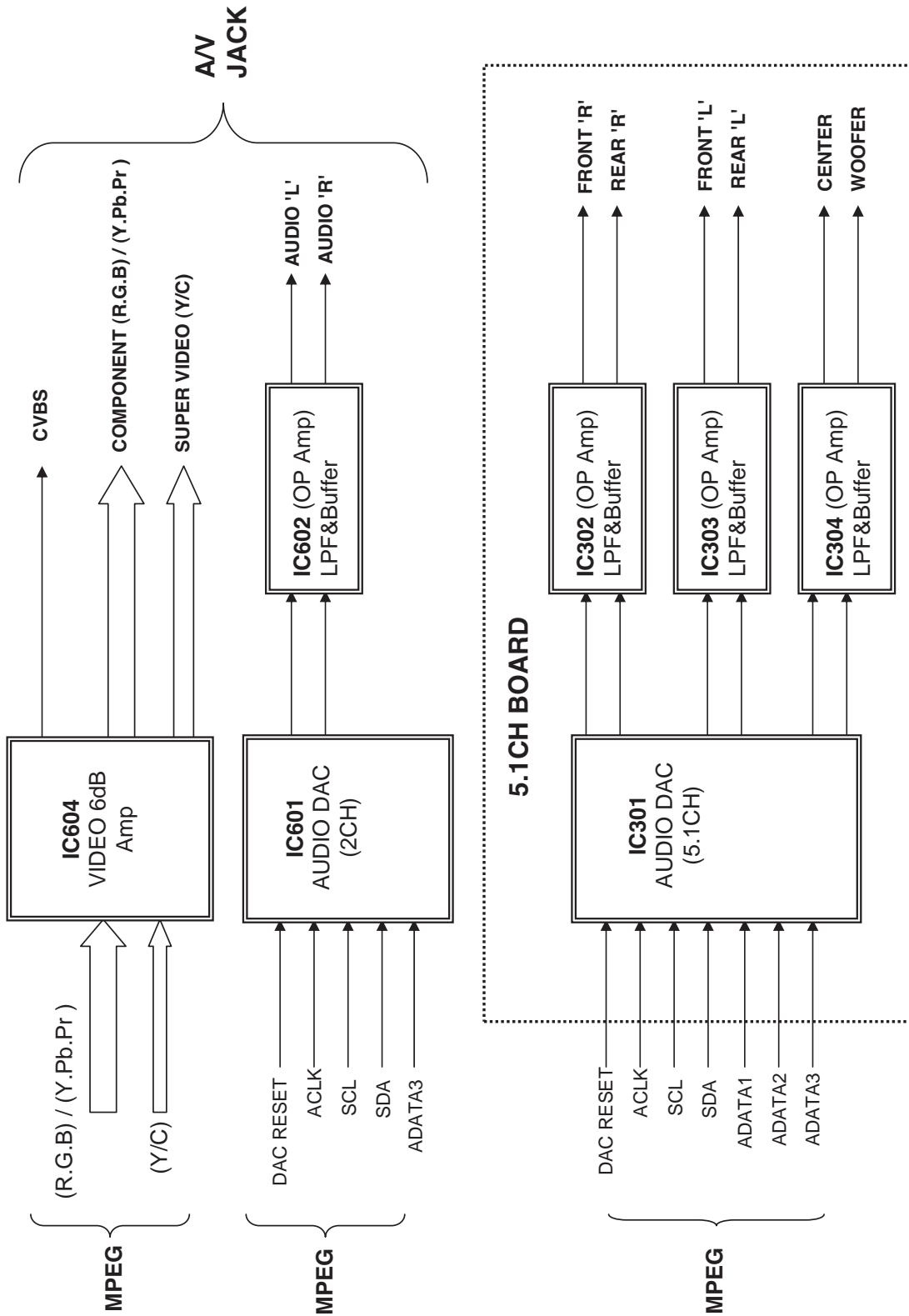
3. SERVO Block Diagram



4. MPEG & MEMORY Block Diagram



5. VIDEO & AUDIO Block Diagram



CIRCUIT DIAGRAMS

1. POWER(SMPS) CIRCUIT DIAGRAM

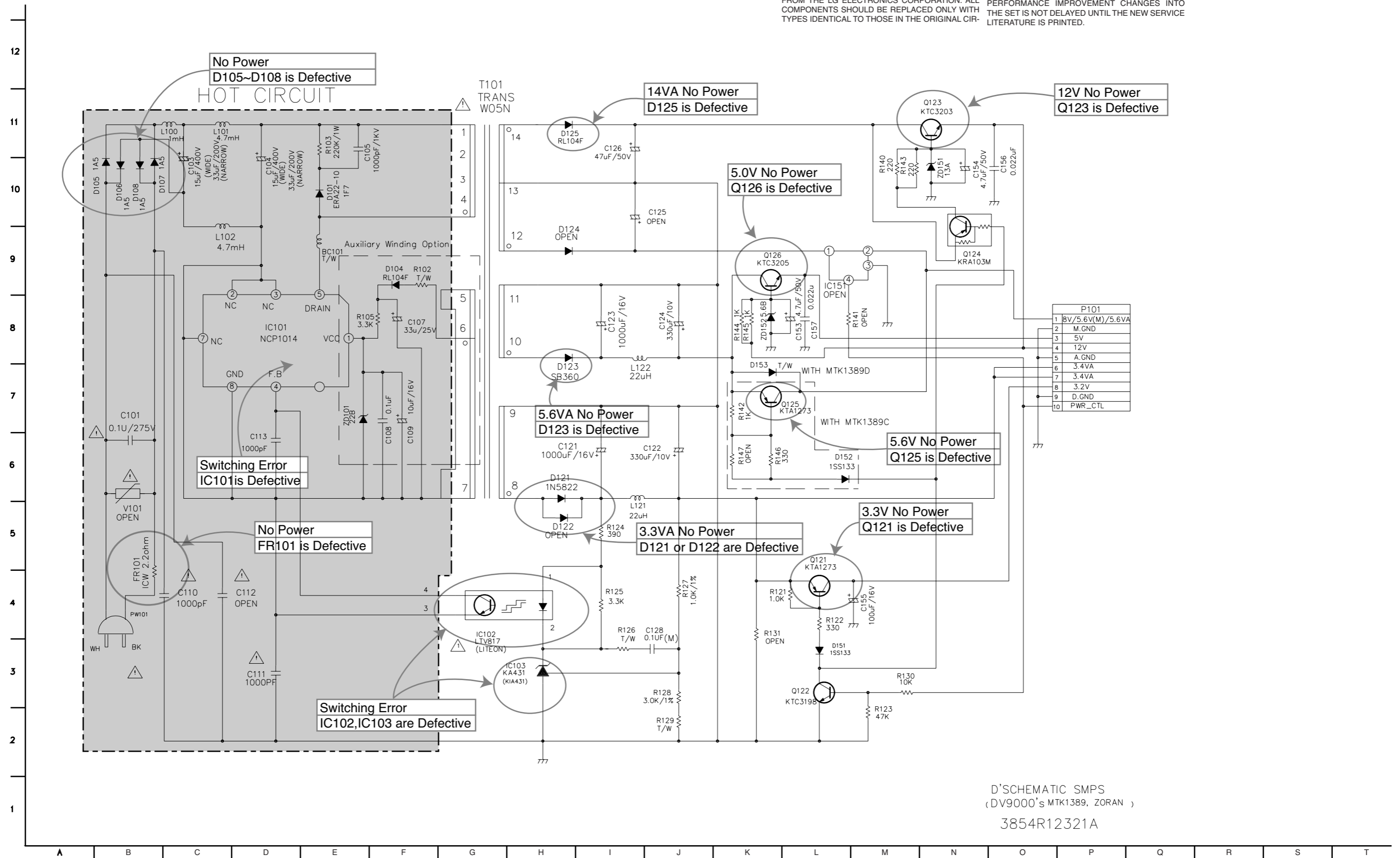
IMPORTANT SAFETY NOTICE

WHEN SERVICING THIS CHASSIS, UNDER NO CIRCUMSTANCES SHOULD THE ORIGINAL DESIGN BE MODIFIED OR ALTERED WITHOUT PERMISSION FROM THE LG ELECTRONICS CORPORATION. ALL COMPONENTS SHOULD BE REPLACED ONLY WITH TYPES IDENTICAL TO THOSE IN THE ORIGINAL CIR-

CUIT. SPECIAL COMPONENTS ARE SHADED ON THE SCHEMATIC FOR EASY IDENTIFICATION. THIS CIRCUIT DIAGRAM MAY OCCASIONALLY DIFFER FROM THE ACTUAL CIRCUIT USED. THIS WAY, IMPLEMENTATION OF THE LATEST SAFETY AND PERFORMANCE IMPROVEMENT CHANGES INTO THE SET IS NOT DELAYED UNTIL THE NEW SERVICE LITERATURE IS PRINTED.

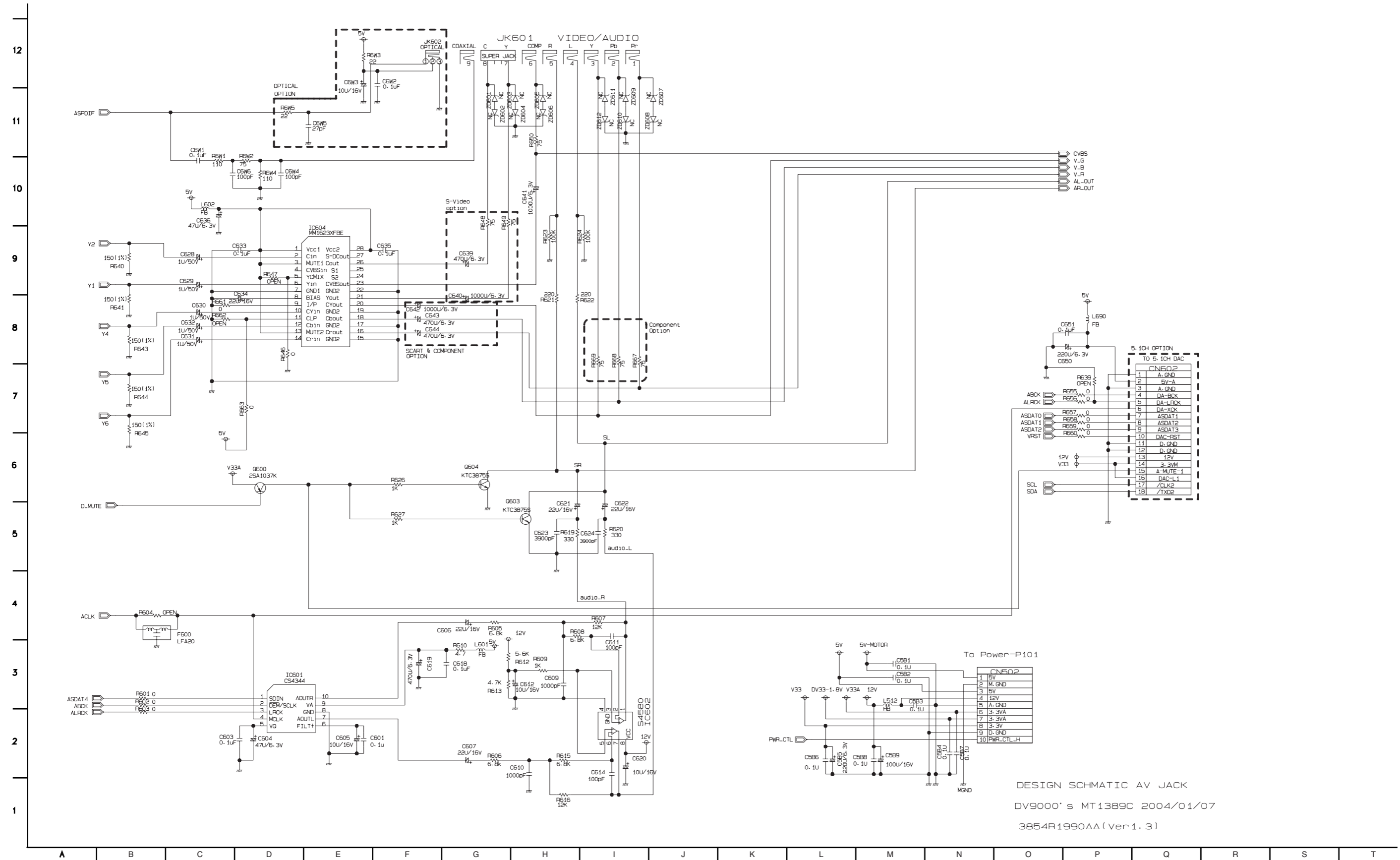
NOTE :

1. Shaded(■) parts are critical for safety. Replace only with specified part number.
2. Voltages are DC-measured with a digital voltmeter during Play mode.



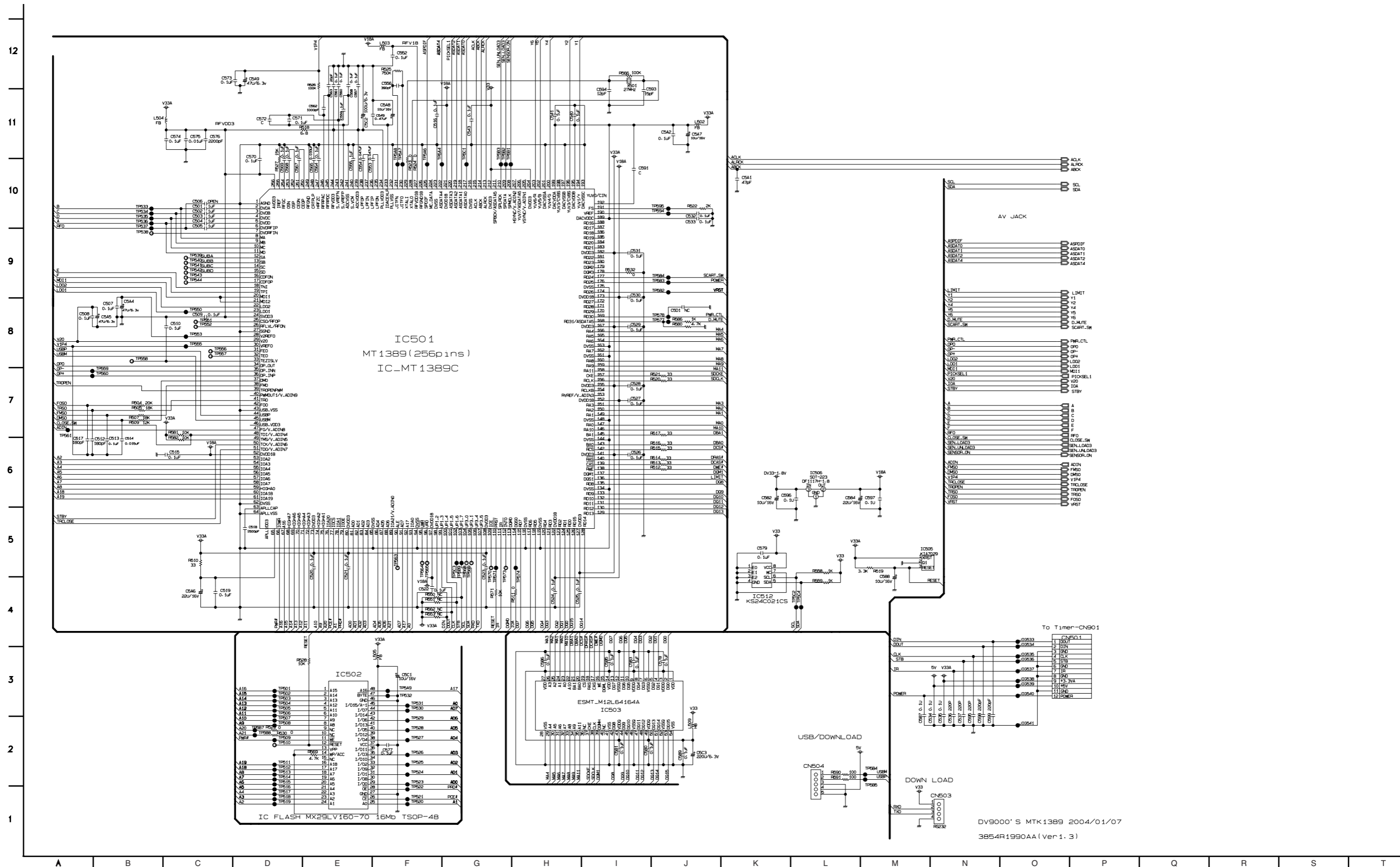
D'SCHEMATIC SMPS
(DV9000's MTK1389, ZORAN)
3854R12321A

2. AV/JACK CIRCUIT DIAGRAM



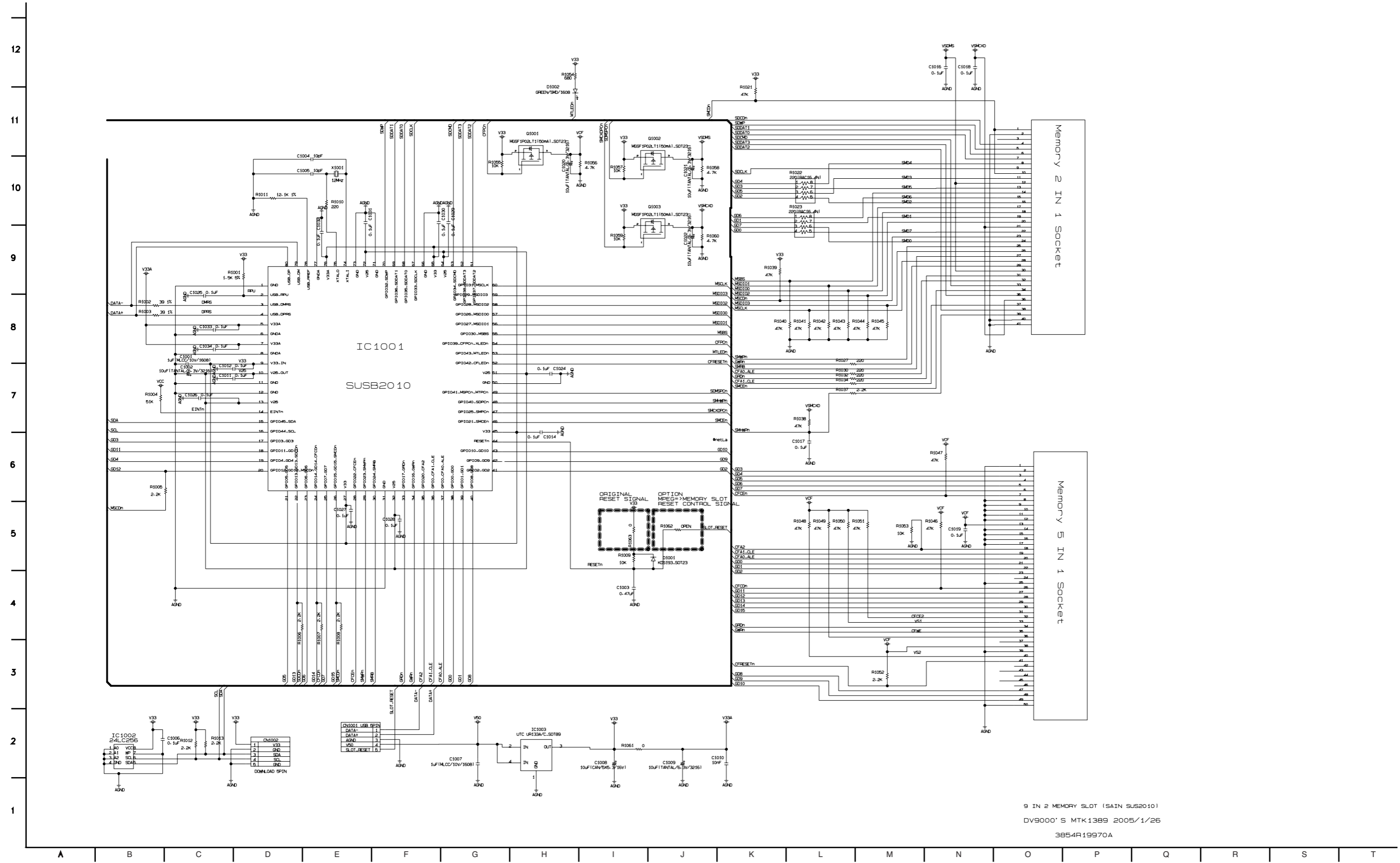
DESIGN SCHMATIC AV JACK
 DV9000's MT1389C 2004/01/07
 3854R1990AA (Ver 1.3)

3. SYSTEM CIRCUIT DIAGRAM



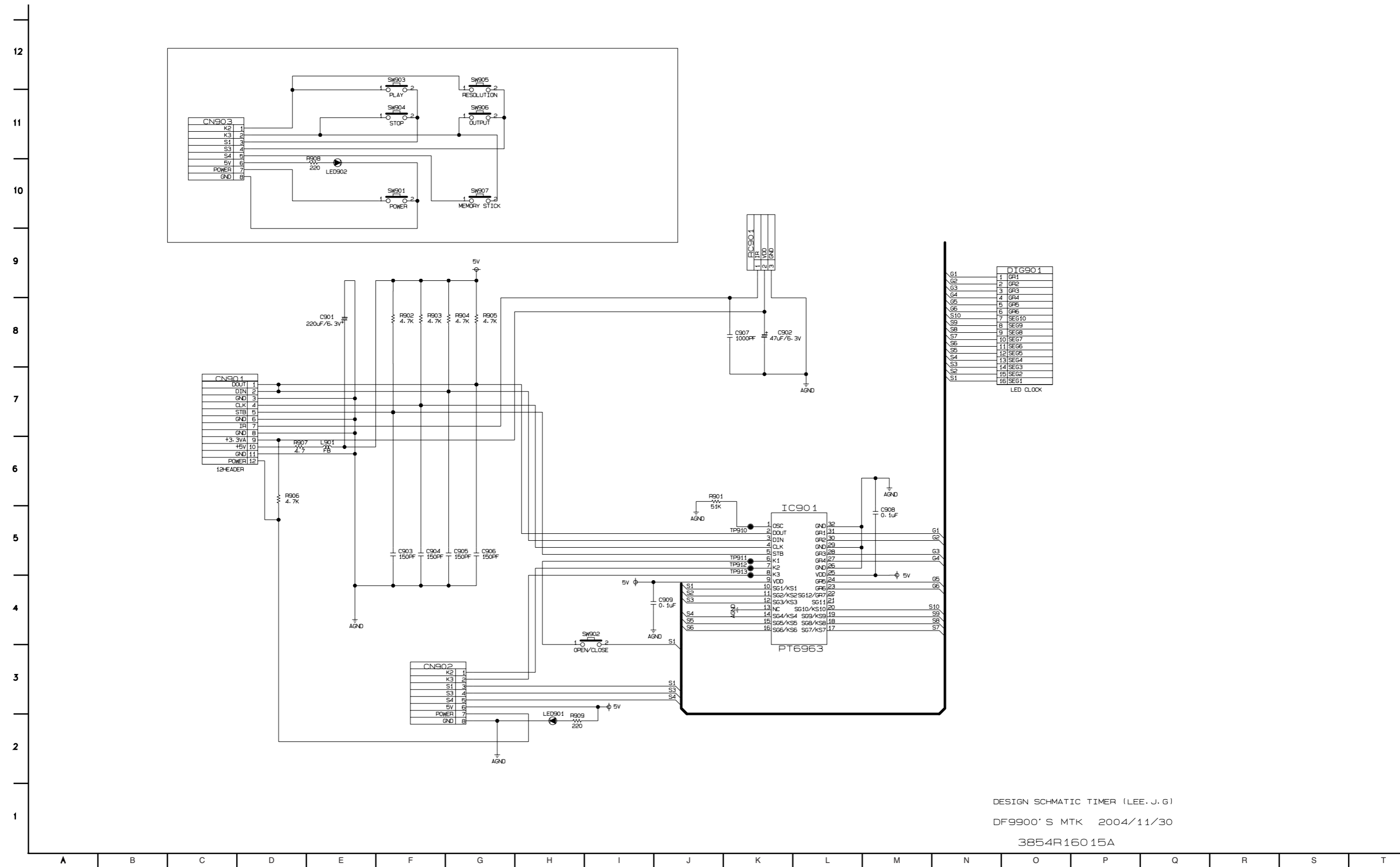
DV9000'S MTK1389 2004/01/07
3854R1990AA (Ver 1.3)

4. 9 IN 2 MEMORY SLOT CIRCUIT DIAGRAM



9 IN 2 MEMORY SLOT (SAIN SUS2010)
 DV9000'S MTK1389 2005/1/26
 3854R19970A

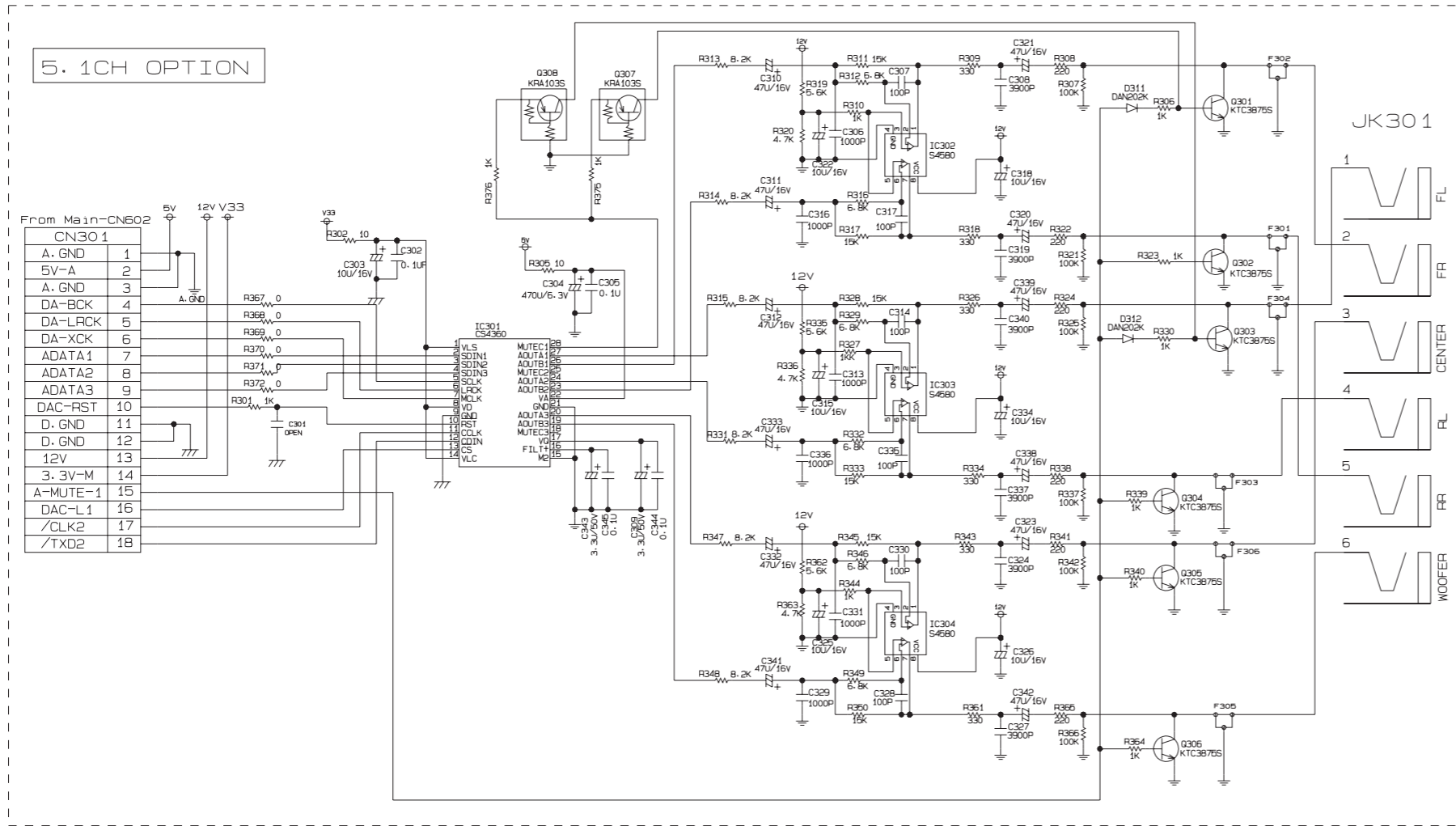
5. TIMER CIRCUIT DIAGRAM



DESIGN SCHEMATIC TIMER (LEE.J.G)
 DF9900' S MTK 2004/11/30
 3854R160 15A

6. 5.1CH & KARAOKE(KARAOKE MODEL ONLY) CIRCUIT DIAGRAM

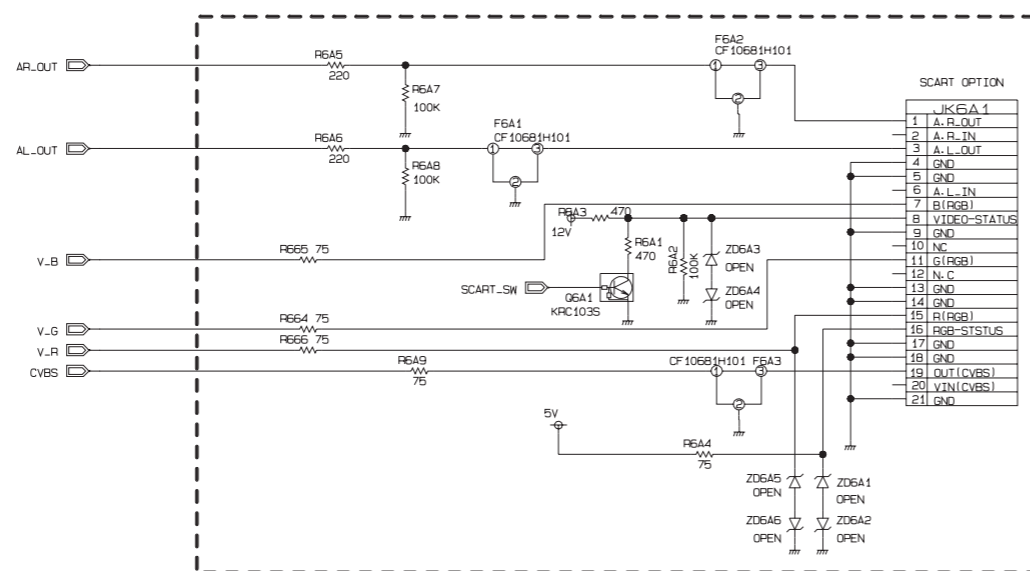
12
11
10
9
8
7
6
5
4
3
2
1



DESIGN SCHEMATIC KARAOKE&5.1CH
DV9000'S MTK1389C 2004/8/28
3854R1600BA (1.08)

A B C D E F G H I J K L M N O P Q R S T

7. SCART CIRCUI T DIAGRAM



DESIGN SCHEMATIC SCART (ZHU LIBIN)
 DV9000' S MTK13B9C 2004/01/07
 3854R1990AA (Ver 1. 3)

• CIRCUIT VOLTAGE CHART

MODE PIN NO.	STOP	PLAY
IC201(9005)		
1	0	0
2	0	0
3	5.01	5.04
4	5.52	5.55
5	1.8	1.76
6	1.42	1.42
7	5.52	5.55
8	5.52	5.54
9	0	0
10	0	0
11	2.65	2.69
12	2.61	2.63
13	1.2	1.46
14	4.08	3.85
15	2.66	2.69
16	2.66	2.68
17	2.68	2.71
18	2.63	2.66
19	0	0
20	5.53	5.56
21	3.29	3.29
22	1.43	1.43
23	1.43	1.43
24	1.43	1.43
25	1.42	1.43
26	1.43	1.43
27	1.43	1.43
28	1.43	1.43
IC501		
1	0	0
2	1.73	0
3	1.73	1.73
4	1.73	1.73
5	1.73	1.73
6	1.75	1.73
7	2.15	1.74
8	2.2	2.21
9	2.18	2.18
10	2.16	0
11	2.14	2.14
12	1.74	1
13	1.04	1
14	1.03	1
15	0.12	1
16	0.13	0
17	0.12	1
18	0.13	2.05
19	2.05	0
20	2.05	0
21	2.05	0
22	2.38	0
23	3.29	0
24	3.3	3.3
25	0.21	1

MODE PIN NO.	STOP	PLAY
26	2.34	0
27	0	0
28	2.8	2.8
29	2	0
30	1.4	0
31	1.52	0
32	1.38	0
33	1.38	0
34	2.62	0
35	2.62	2.73
36	2.25	0
37	2.2	2.11
38	1.37	1.36
38	0	0
40	1.4	0
41	1.43	0
42	1.4	141
43	0	0
44	0	0
45	0	0
46	3.3	3.3
47	2.64	0
48	3.32	0
49	0.01	0
50	3.3	0
51	0	0
52	1.76	1.8
53	2.13	0
54	2.14	2.12
55	2.13	1.74
56	1.81	1.34
57	2.12	0
58	1.83	1.52
59	0	1.63
60	0	2.99
61	0	0
62	0	0
63	0	2.05
64	0	0
65	3.3	3.3
66	3.3	3.32
67	1.29	0
68	2.36	0.32
69	0	0.37
70	0.56	0.46
71	0	3.2
72	1.27	1.42
73	3.3	3.3
74	2.23	1.93
75	1.39	0
76	0	0
77	0	0
78	2.06	0
79	0	0
80	3.3	3.3

MODE PIN NO.	STOP	PLAY
81	1.2	1.07
82	0	0.82
83	1.17	0.77
84	0.64	0.54
85	0	0
86	1.44	0.53
87	1.65	1.77
88	1.4	1.53
89	0	0
90	1.21	1.2
91	1.02	1.03
92	0	0
93	2.06	1.93
94	0	0
95	3	2.74
96	3.28	3.25
97	1.8	1.8
98	3	2.7
99	3	2.7
100	2.97	2.67
101	0	2.68
102	3.33	3.32
103	3.33	3.32
104	3	2.7
105	5.18	5.18
106	3.32	3.31
107	2.76	2.75
108	3.3	3.3
109	0	0
110	5.2	5.2
111	2.67	2.92
112	3.14	3.18
113	2.28	1.6
114	0	0
115	1.06	0.85
116	0	0
117	1.04	1.09
118	1.28	0.94
119	0	0
120	1.18	1.65
121	1.36	1.7
122	1.8	1.75
123	1.26	1.51
124	1.23	1.4
125	1.28	1.16
126	0	0.86
127	3.3	3.3
128	2.35	1.28
129	1.8	1.05
130	0	1.1
131	1.39	1.25
132	1.37	1.27
133	1.31	1.3
134	0	0
135	1.33	1.37

MODE PIN NO.	STOP	PLAY
136	3.3	3.3
137	2.63	1.65
138	3.27	3.1
139	3	2.63
140	3.2	3.1
141	3.3	3.3
142	2.9	2.38
143	1.59	1.7
144	0	0
145	1.38	1.55
146	0.07	0
147	0.31	0.78
148	0	0
149	1.51	1.95
150	1.49	1.93
151	1.49	1.62
152	1.8	1.75
153	0	0
154	0	0
155	3.3	3.3
156	1.72	1.72
157	0.92	2.29
158	0	0
159	0	0
160	0	0
161	0	0
162	1.56	1.4
163	0	0
164	2.36	1.54
165	2.32	1.61
166	1.49	1.61
167	3.3	3.3
168	3.25	3.24
169	3.3	3.27
170	0	0
171	0	0
172	0	0
173	1.8	1.8
174	3.33	3.3
175	0	0
176	2.73	2.73
177	0	0
178	3.32	3.32
179	2.75	0
180	0	0
181	0	0
182	3.3	3.3
183	0	0
184	0	0
185	0	0
186	0	0
187	0	0
188	0	0
189	3.3	3.3
190	1.24	1.24

MODE PIN NO.	STOP	PLAY
191	1.25	1.24
192	2.26	2.25
193	0	0
194	0.46	0.47
195	3.3	3.3
196	0.7	0.7
197	0	0
198	3.28	3.29
199	3.3	3.3
200	0.42	0.43
201	0	0
202	0.57	0.38
203	0	0.42
204	3.3	3.3
205	0.25	2.62
206	2.72	2.64
207	2.71	2.63
208	0	0
209	0	0
210	0	0
211	0.1	3.3
212	3.3	3.3
213	1.31	1.66
214	1.67	1.64
215	1.58	1.57
216	0	0
217	0	1.24
218	0	1.1
219	0	0
220	0	0
221	1.76	1.76
222	0	1.24
223	0	0
224	0	0
225	1.66	1.65
226	0	0
227	1.8	1.76
228	3.3	3.3
229	3.3	3.3
230	0.85	0.86
231	0.81	0.82
232	0	0
233	0.83	0.89
234	3.19	3.18
235	1.74	1.72
236	1.71	1.71
237	1.71	1.71
238	1.72	1.75
239	3.19	3.18
240	0	0
241	0	0
242	0	0
243	0	0
244	3.19	3.19
245	1.55	1.55

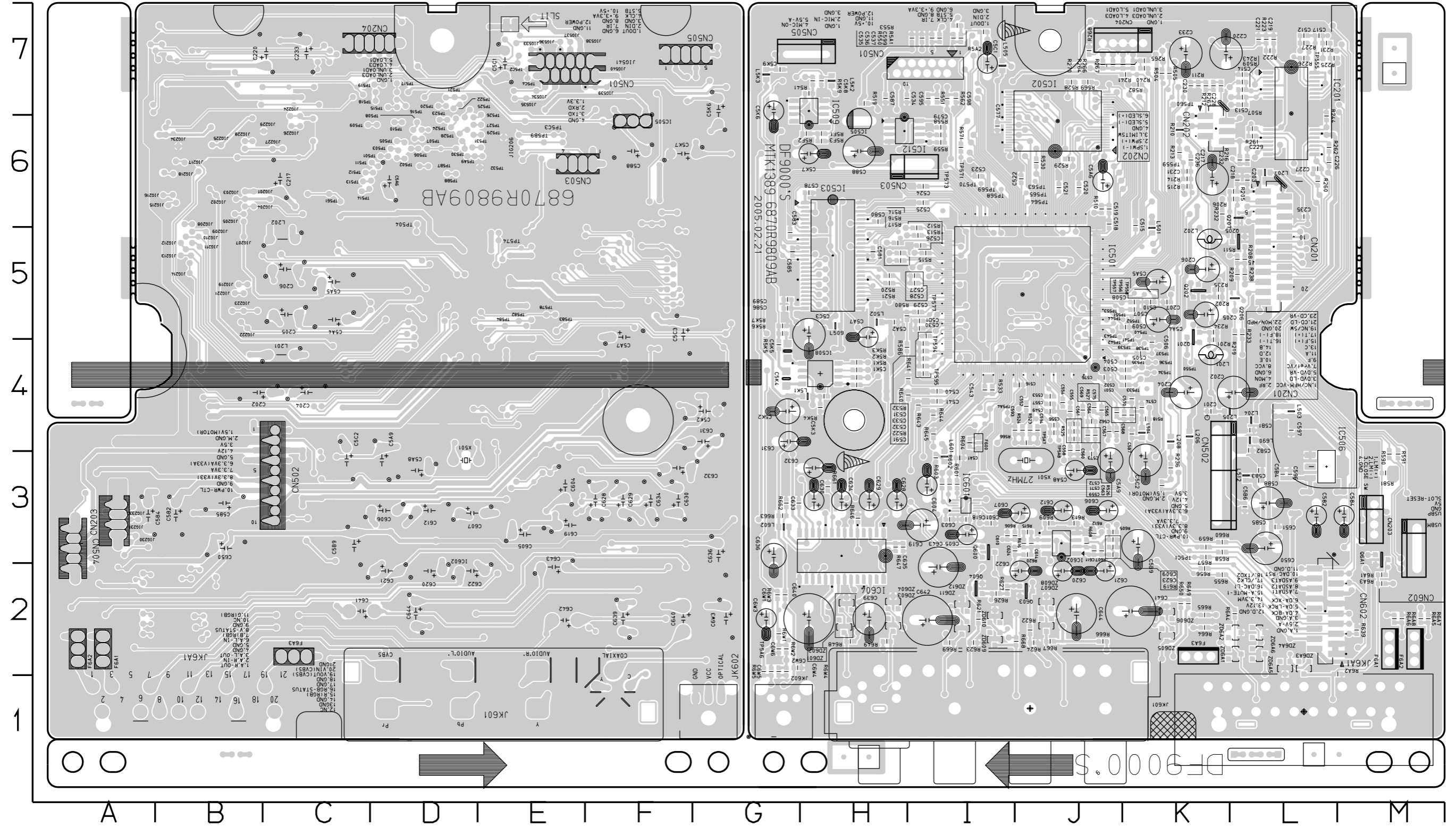
MODE PIN NO.	STOP	PLAY
246	1.39	1.39
247	1.45	1.44
248	1.93	1.94
249	0	0
250	0	0
251	0	0
252	1.75	1.75
253	1.71	1.71
254	1.37	1.37
255	0.94	0.94
256	3.3	3.3
IC502 (MX29LV160-70)		
1	3.2	3.17
2	0	3.17
3	3.2	3.17
4	3.2	0.97
5	3.2	3.16
6	3.2	3.16
7	0	3.16
8	0	3.16
9	0	3.16
10	0	1.02
11	3.2	3.16
12	5.25	5.25
13	0	2.73
14	1.54	3.19
15	1.33	1.71
16	3.2	2.43
17	3.2	3.17
18	3.2	3.16
19	1.7	3.17
20	2.2	3.17
21	0	3.17
22	0	3.17
23	0	0
24	0	0
25	0	0
26	0	0
27	0	0
28	3.2	3.17
29	3.2	3.17
30	0	0
32	0	0
33	0	0
34	0	0
35	3.2	0
36	0	0
37	3.2	3.23
38	3.26	0
39	3.2	3.17
40	0	0
41	3.2	3.17
42	0	0
43	0	3.17
44	0	0

MODE PIN NO.	STOP	PLAY
45	0	0
46	0	0
47	0	0
48	3.2	3.17
IC503 (M12L64164A)		
1	3.25	3.23
2	2.85	2.86
3	3.25	3.22
4	2.87	2.87
5	2.85	2.5
6	0	0
7	2.81	2.1
8	2.9	2.04
9	3.25	3.22
10	2.85	2.1
11	2.87	2.91
12	1.9	0
13	2.8	
14	3.25	3.22
15	0	0
16	3.18	3.1
17	3.07	2.58
18	3.14	0.61
19	2.95	2.97
20	2.9	2.96
21	2.6	0.32
22	2.81	2.83
23	0.05	0.06
24	0.16	0.18
25	0.16	0.18
26	0.16	0.17
27	3.26	3.24
28	0	0.59
29	0.16	0.17
30	0.15	0.53
31	0.16	0.53
32	0.12	0.5
33	0.05	0.16
34	0.05	0.17
35	0.04	0.5
36	2.85	0.08
37	3.26	3.236
38	1.79	1.78
39	0	0
40	2.7	0.1
41	2.7	0
42	2.9	2
43	3.26	3.23
44	2.92	1.95
45	2.92	2.01
46	0	0
47	2.92	2.03
48	2.94	2.17
49	3.26	3.23
50	2.91	2

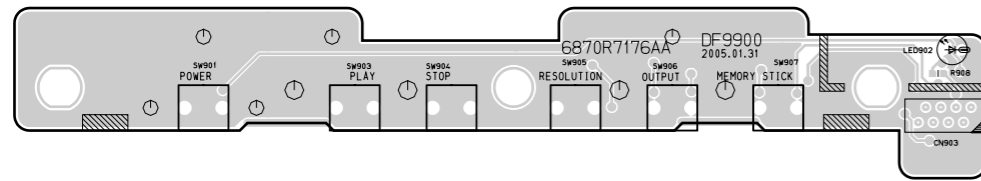
MODE PIN NO.	STOP	PLAY
51	2.94	2
52	0	0
53	2.9	1.85
54	0	0
IC601		
1	0	1.23
2	1.65	1.64
3	1.65	1.65
4	1.64	1.63
5	2.37	2.382
6	4.7	4.69
7	2.4	2.39
8	0	0
9	4.79	1.91
10	2.38	1.72
IC604(MM1623)		
1	5.17	5.16
2	2.52	2.47
3	5.17	5.16
4	1.36	1.27
5	0	0
6	1.68	1.55
7	0	0
8	2.52	2.51
9	0	0
10	1.68	1.53
11	0	0
12	2.49	2.47
13		

PRINTED CIRCUIT DIAGRAMS

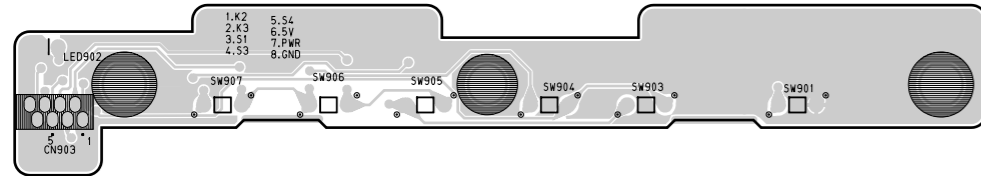
1. MAIN P.C.BOARD



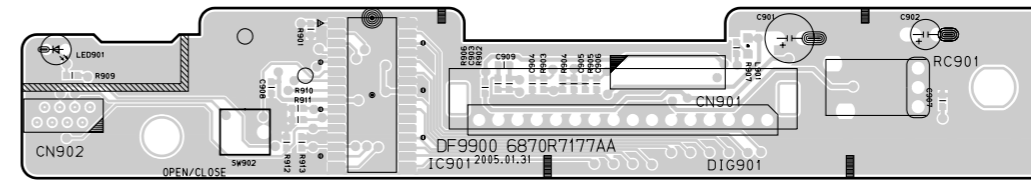
**2. KEY P.C.BOARD
(TOP VIEW)**



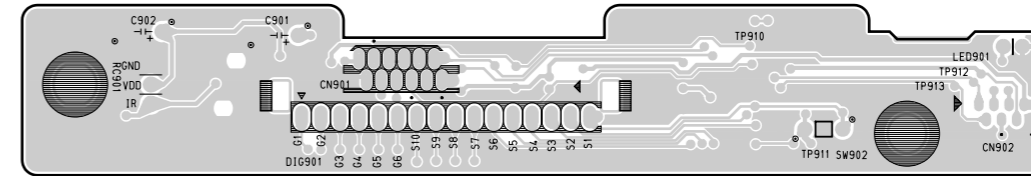
(BOTTOM VIEW)



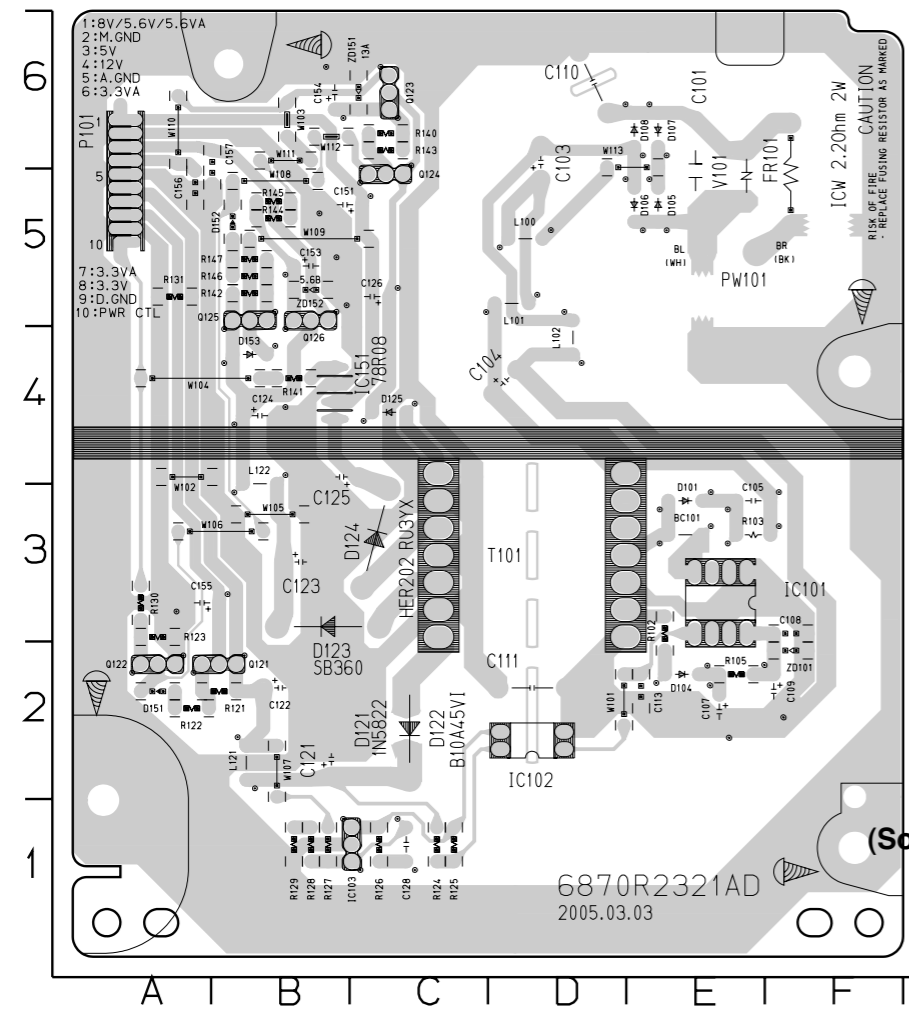
**3. TIMER P.C.BOARD
(TOP VIEW)**



(BOTTOM VIEW)



4. SMPS P.C.BOARD

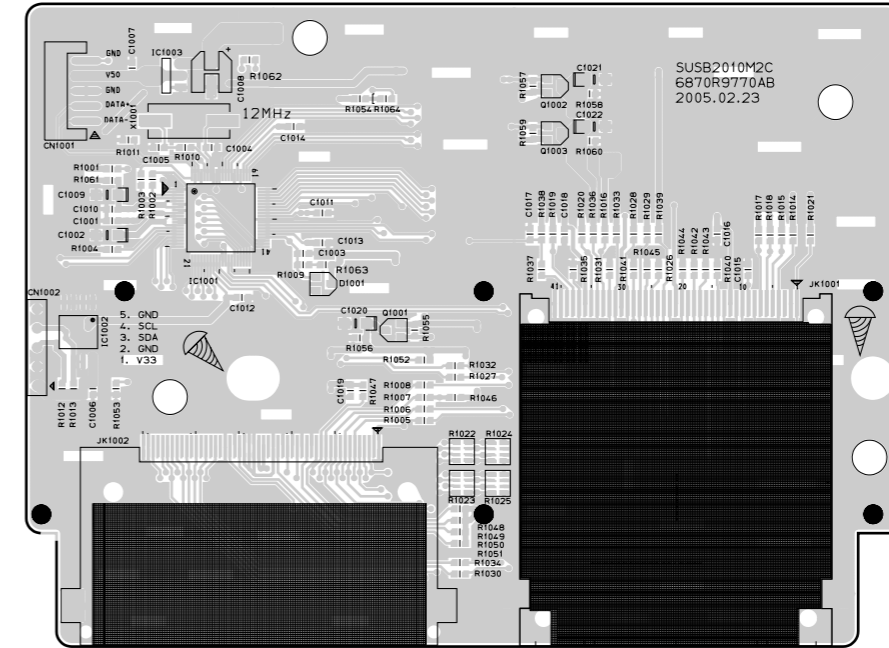


LOCATION GUIDE

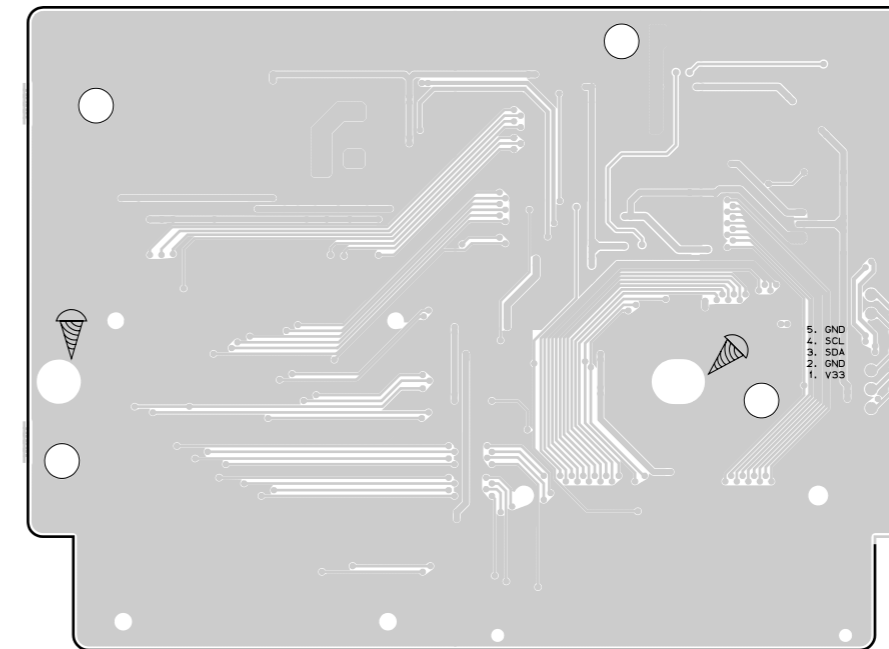
BC101	E3	IC151	B4
C101	E5	L100	D5
C103	D6	L101	D5
C104	D4	L102	D4
C105	E3	L121	B2
C107	E2	L122	B3
C108	F3	P101	A6
C109	F2	PW101	E5
C110	D6	Q121	B2
C111	D2	Q122	A2
C113	E2	Q123	C6
C121	B2	Q124	C5
C122	B2	Q125	B5
C123	B3	Q126	B5
C124	B4	R102	E3
C125	B4	R103	E3
C126	C5	R105	E2
C128	C1	R121	B2
C151	B5	R122	A2
C153	B5	R123	A3
C154	B6	R124	C1
C155	A3	R125	C1
C156	A5	R126	C1
C157	B6	R127	B1
D101	E3	R128	B1
D104	E2	R129	B1
D105	E5	R130	A3
D106	E5	R131	A5
D107	E6	R140	C6
D108	E6	R141	B4
D121	C2	R142	B5
D122	C2	R143	C6
D123	B3	R144	B5
D124	C3	R145	B5
D125	C4	R146	B5
D151	A2	R147	B5
D152	B5	T101	D3
D153	B4	V101	E5
FR101	F5	ZD101	F2
IC101	E3	ZD151	C6
IC102	D2	ZD152	B5
IC103	C1		

5. MEMORY P.C.BOARD

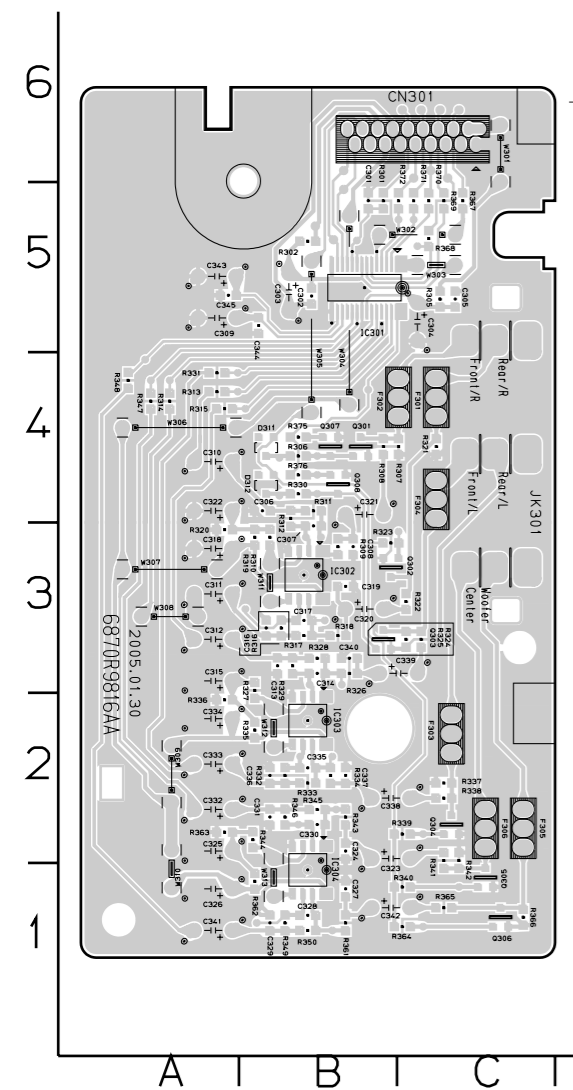
(TOP VIEW)



(BOTTOM VIEW)



6. I/O P.C.BOARD



LOCATION GUIDE

C303	B5
C304	C5
C309	A5
C310	A4
C311	A3
C312	A3
C315	A3
C318	A3
C320	B3
C321	B4
C322	A4
C323	B2
C325	A2
C326	A1
C332	A2
C333	A2
C334	A2
C338	B2
C339	C3
C341	A1
C342	B1
C343	A5
CN301	C6
F301	C4
F302	C4
F303	C2
F304	C4
F305	C2
F306	C2
JK301	C4

NOTES) If you want to purchase
Flash memory, you must order
"IC502A"

NOTES) ⚠ Warning
Parts that are shaded are critical With
respect to risk of fire or electrical
shock.

SECTION 4 REPLACEMENT PARTS LIST

MODEL : DF9912EH HA3RML(CIS)

NSP : Not available as service parts.

RUN DATE : 15-MARCH-05

S	AL	LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
*** INDIVIDUAL PARTS ***						
		250	3110R-D023A	CASE	DV9000 B6432G PRESS WWITHOUT LG	
		274	3300R-D070A	PLATE	BRKT FRONT SLOT PRESS	
		276	4930R-0602A	HOLDER	DVD DF9900 MOLD MOMORY STICK	
		300	6410RCHX03A	POWER CORD		
		452	1SZZR-0098E	SCREW,DRAWING	+ 2 D3.0 L12.0 MSWR3/FZMCW-1 3	
		463	1SZZR-0098G	SCREW,DRAWING	+ 2 D3.0 L8.0 MSWR3/FZMCW-1 3C	
		465	1SZZR-0097K	SCREW,DRAWING	+ 2 D3.0 L10.0 MSWR3/FZB 3 CR	
		801	3835RD0037Y	INSTRUCTION ASSEMBLY	DVD DF9911PH-HA2ILL	
		802	3890RCG010N	BOX,MASTER	DF9912PH HA2ILL SWM3-A BOX	
		803	3920R-E141A	PACKING	DVD DV9000 100 DVD	
		804	292-053A	BAG	SOFT(VCP)	NSP
		804	3880R-E002A	BAG,VINYL	430 500 0.5 DVD9000	NSP
		808	6910A90004A	BATTERY,ALKALINE	R03P SHANGHAI SHENKANG 1.5V 4A	
		808	841-0021	BATTERY,MN	ER03X HI WATT 1.5V .MA/H AAA	ALTERNATE
		811	6850R-PAA2F	CABLE,COAXIAL	1 WAY COAXIAL DT_HY_HIT_SEIL	
		812	6850R-PBA2H	CABLE,COAXIAL	2 WAY COAXIAL RED_WHITE DT_HY_	
		830	591N010B	ADAPTER,AC	- - - ADP-01(II) YUQIU FOR IN	
		900	6711R1P070B	REMOTE CONTROLLER ASSEMBLY	U1 DV8900E4A HA5ILL LG (PAL)	
*** CHASSIS ASSEMBLY ***						
		A44	3141R-D063D	CHASSIS ASSEMBLY	DF9911PH.	
		260	3140R-D020A	CHASSIS	DV9000 PRESS 430MM	NSP
		261	5040R-0069Q	RUBBER	DVD DV9000S OTHER 05 NEW FOOT	
		320	3720R-D134D	PANEL,VIDEO	DVD DF9911PH.HA2ILL PRESS HA2I	
		467	1SZZR-0097N	SCREW,DRAWING	+ 2 D3.0 L8.0 MSWR3/FZB 3CR BK	
*** DECK ASSEMBLY,DVD ***						
		A00	6721RHD050A	DECK ASSEMBLY,DVD	SLOT DPS-02 MITSUMI VA9 (V.E.	NSP
		A02	3041R-M071A	BASE ASSEMBLY	MAIN DPS-02	
		020	3040R-M069A	BASE	MAIN(DPS-02) PRESS	
		021	6871R-7987A	PWB(PCB) ASSEMBLY,TOTAL	DPS-02 SENSOR - SH	
		A03	3041R-M072A	BASE ASSEMBLY	SLED DP8/DPS-02 (MITSUMI VA9)	
		031	6850R-JW26Y	CABLE,FLAT	P=1.0 FFC UL2896(0.035X0.7) 23	
		032	6871R-9283B	PWB(PCB) ASSEMBLY,TOTAL	FEEDING DP8/DPS-02 - SH	
		033	4680R-E008A	MOTOR(MECH)	FEEDING RF-300EA-1D390 MABUCHI	
		034	4470R-0151A	GEAR	DECK/MECHA PINION MOLD DP8	
		035	4470R-0150A	GEAR	DECK/MECHA MIDDLE MOLD DP8	
		006	5040R-0110B	RUBBER	DVD DP-8 REAR LEFT 30 OTHER BL	
		007	5040R-0083A	RUBBER	DVD DP-6, DP-8 FRONT RIGHT 20	
		431	1SZZR-0036A	SCREW,DRAWING	+ 1 D2.0 L3.5 SWRCH16A/ZNW 4MM	
		432	1SZZR-0094A	SCREW,DRAWING	+ 1 D2.0 L4.5 SWRCH18A/FZY DPS	
		433	1SZZR-0095A	SCREW,DRAWING	+ 1 D2.0 L4.5 SWRCH18A/FZW DPS	
		A01	3041H-1057A	BASE ASSEMBLY	BASE MECHA ASSY CRN-8242B	
		109	4811H-1018A	BRACKET ASSEMBLY	BRACKET ASSY GEAR CHUCK CRN-82	
		111	4681H-1023A	MOTOR ASSEMBLY	LOADING	
		114	4400H-1011A	BELT	BELT CRN-8242B	
		110	6871R-0311A	PWB(PCB) ASSEMBLY,TOTAL	LOAD DPS-02	
		112	4560H-1016A	PULLEY	LOADING DISC CRN-8242B KEPITAL	

S	AL	LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		113	4680HP2009A	MOTOR(MECH)	AT-M12-0740 NMM N4 LOADING	
		115	4371H-1012A	SHAFT ASSEMBLY	SHAFT ASSY GEAR CRN-8242B	
*** PWB(PCB) ASSEMBLY,TOTAL ***						
		A47	6871R-2322M	PWB(PCB) ASSEMBLY,TOTAL	DF9000S SMPS ASSY 1389B,C SLOT	
		C101	624-088L	CAPACITOR,DRAWING	435D SUNIL ELECTRONICS 0.1UF/2	
		C101	624-088S	CAPACITOR,DRAWING	MPX104K ETR/EUROPTRONIC BULK	ALTERNATE
		C101	624-088J	CAPACITOR,DRAWING	ECQU2A104ML 0.1UF/275VAC 4.0 C	ALTERNATE
		C103	0CZZR00011B	CAPACITOR,DRAWING	SAMYOUNG,SAMWHA,G-LUXON E-CAP	
		C104	0CZZR00011B	CAPACITOR,DRAWING	SAMYOUNG,SAMWHA,G-LUXON E-CAP	
		C105	624-087J	CAPACITOR,FIXED CERAMIC(HIGH D	HIGH-VOL 102PF/1KV CERAMIC	
		C109	0CE2264F638	CAPACITOR,FIXED ELECTROLYTIC	22UF SRA,SS 16V 20% FM5 TP 5	
		C110	0CG1020U630	CAPACITOR,SEMI CERAMIC	1000PF 400V M E(Z5U) R	
		C111	0CG1020U630	CAPACITOR,SEMI CERAMIC	1000PF 400V M E(Z5U) R	
		C113	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C121	0CE108BF630	CAPACITOR,FIXED ELECTROLYTIC	1000UF KME 16V M FM5 BULK	
		C121	0CE108EF630	CAPACITOR,FIXED ELECTROLYTIC	1000UF KMG 16V 20% FM5 BULK	ALTERNATE
		C122	0CE3376D638	CAPACITOR,ELECTROLYTIC	330UF SMS 10V M FM5 TP5	
		C123	0CE108BF630	CAPACITOR,FIXED ELECTROLYTIC	1000UF KME 16V M FM5 BULK	
		C123	0CE108EF630	CAPACITOR,FIXED ELECTROLYTIC	1000UF KMG 16V 20% FM5 BULK	ALTERNATE
		C124	0CE3376D638	CAPACITOR,ELECTROLYTIC	330UF SMS 10V M FM5 TP5	
		C125	0CE477BH630	CAPACITOR,AL.ELECTROLYTIC	470UF KME TYPE 25V M FM5 BULK	
		C126	624-085D	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C128	0CQ1042K409	CAPACITOR,FIXED FILM	0.1UF S 50V 5% PE TP5	
		C151	0CE1074F638	CAPACITOR,FIXED ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C153	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C154	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C155	0CE1074F638	CAPACITOR,FIXED ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C156	0CN223AK948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S	
		C157	0CN223AK948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S	
		D101	0DR400709AA	DIODE,RECTIFIERS	10SP07U(SUF4007SP) TP GULF SEM	
		D101	0DD221009AA	DIODE,RECTIFIERS	ERA22-10 KFLB,TP ,R T/P,FUJI	ALTERNATE
		D101	0DRRE00163A	DIODE,RECTIFIERS	1F7(U FORMING) RECTRON BK NON	ALTERNATE
		D105	0DRGF00309A	DIODE,RECTIFIERS	1A5 GULF TP R4 600V 1A 30A .SE	
		D106	0DRGF00309A	DIODE,RECTIFIERS	1A5 GULF TP R4 600V 1A 30A .SE	
		D107	0DRGF00309A	DIODE,RECTIFIERS	1A5 GULF TP R4 600V 1A 30A .SE	
		D108	0DRGF00309A	DIODE,RECTIFIERS	1A5 GULF TP R4 600V 1A 30A .SE	
		D121	0DR810040BA	DIODE,RECTIFIERS	ERC81-004L22 BK FUJI DO201AD 4	
		D121	0DR158220AA	DIODE,RECTIFIERS	1N5822 BK RECTRON DO201AD 40V	ALTERNATE
		D121	0DRGF00210A	DIODE,RECTIFIERS	1N5822 GULF BK DO201AD 40V 3A	ALTERNATE
		D123	0DSGF00030A	DIODE,SWITCHING	SB360-24A GULF BK DO201AD 60V	
		D124	0DR202000AB	DIODE,RECTIFIERS	HER202 BK RECTRON - 100V 2A 60	
		D124	0DR310000AA	DIODE,RECTIFIERS	RU3YXLF-C1 BK SANKEN - 100V 2A	ALTERNATE
		D124	0DRGF00200A	DIODE,RECTIFIERS	SUF2003(=HER202) GULF BK DO15	ALTERNATE
		D125	0DD010009AC	DIODE,RECTIFIERS	EU01W(R-FORM) TP SANKEN	
		D125	0DR104009BA	DIODE,RECTIFIERS	RL104F TP RECTRON - 400V 1A 30	ALTERNATE
		D125	0DRGF00239A	DIODE,RECTIFIERS	FR104E GULF TP NON 400V 1A 30A	ALTERNATE
		D151	0DS141489BB	DIODE,SWITCHING	1N4148 26MM TP GRANDE DO34 75V	
		FR101	0RF0221K634	RESISTOR,VARIABLE[CARBON FILM]	2.2 OHM 2 W 5% MF15	
		IC101	0IPMGON024A	IC,POWER MANAGEMENT	NCP1014AP100G ON SEMI 7PIN,PDI	
		IC102	657-063A	SENSOR	LTV-817B,PHOTO COUPLER(LITEON)	
		IC102	6500RDB010A	SENSOR	PC123YN2J00F SHARP PHOTOCOUPLE	ALTERNATE
		IC103	0IPMGUK001A	IC,POWER MANAGEMENT	SL431-AT AUK 3PIN TO-92 TP PRO	
		IC103	0IKE431000A	IC,KEC	KIA431 3 PIN TP - -	ALTERNATE
		IC103	0ISS431000A	IC,SAMSUNG ELECTRONICS	KA431AZ (LM431AZ)	ALTERNATE
		IC151	0IPMGJR007A	IC,POWER MANAGEMENT	NJM2396F08 JRC 4PIN TO-220 ST	
		IC151	0IPMGSH009A	IC,POWER MANAGEMENT	PQ08RD1LJ00H SHARP 4PIN TO-220	ALTERNATE

S	AL	LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		IC151	0IPMGKE008B	IC,POWER MANAGEMENT	KIA78R08PI/API CU KEC 4P TO-22	ALTERNATE
		IC151	0IPMGFA016A	IC,POWER MANAGEMENT	KA78R08TSTU FAIRCHILD 4P TO-22	ALTERNATE
		L101	6140RCC003J	COIL,RF	4.7 MH PEAKING COIL OWA 67 X 7	
		L102	6140RCC003J	COIL,RF	4.7 MH PEAKING COIL OWA 67 X 7	
		L121	633-088G	COIL,CHOKE	22MH TOKO 5MM TP	
		L121	6140R-C011A	COIL,RF	CHOKE COIL TDK 22UH(=633-088G	ALTERNATE
		L122	633-088G	COIL,CHOKE	22MH TOKO 5MM TP	
		L122	6140R-C011A	COIL,RF	CHOKE COIL TDK 22UH(=633-088G	ALTERNATE
		P101	6631R-E078H	CONNECTOR ASSEMBLY	GIL-S10/9073 10ST 10P 260MM U	
		PW101	6630V90108A	CONNECTOR (CIRC),WAFER	JE202-2L-AG JAE EUN 2P 3.96MM	
		Q121	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q122	0TR319809AC	TRANSISTOR	KTC3198-TP-BL (KTC1815)KEC	
		Q122	0TR534309BA	TRANSISTOR,BIPOLARS	2SC5343-L TP AUK TO92 -	ALTERNATE
		Q122	0TR319909AF	TRANSISTOR,BIPOLARS	KTC3199-BL MINI TP KEC	ALTERNATE
		Q123	0TR534409AA	TRANSISTOR	2SC5344Y TP	
		Q123	0TR320309AA	TRANSISTOR,BIPOLARS	KTC3203 KEC TP TO92 50V 150MA	ALTERNATE
		Q124	0TR220309AF	TRANSISTOR,BIPOLARS	SRA2203 TP AUK TO92 22K,22K	
		Q124	0TR103009AF	TRANSISTOR,BIPOLARS	KRA103M(KRA2203) KEC TP TO92M	ALTERNATE
		Q126	0TR232809AB	TRANSISTOR	KSC2328A-Y TP SAMSUNG TO-92L	
		Q126	0TR320509AB	TRANSISTOR	KTC3205-TP-Y (KTC2236A)KEC	ALTERNATE
		R103	0RS2203J618	RESISTOR,FIXED METAL OXIDE FIL	220K OHM 1 W 5% RT5	
		R121	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R122	0RD3300F608	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5% TA26	
		R123	0RD4702F608	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5% TA26	
		R124	0RD3900F608	RESISTOR,FIXED CARBON FILM	390 OHM 1/6 W 5% TA26	
		R125	0RD3301F608	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5% TA26	
		R127	0RN1001F408	RESISTOR,FIXED METAL FILM	1K OHM 1/6 W 1% TA26	
		R128	0RN3001F408	RESISTOR,FIXED METAL FILM	3K OHM 1/6 W 1% TA26	
		R130	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R140	0RD2200F608	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R141	0RD4701F608	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R143	0RD2200F608	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R144	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R145	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		T101	6170RNGW05N	TRANSFORMER,SMPS[COIL]	EE2532 SOOJUNG SAMWHA DVD 9000	
		V101	656-004C	VARISTOR,DRAWING	SVC681D-10A SAMHWA 4.0 CUT	
		ZD151	0DZ132609AB	DIODE,ZENERS	GDZJ13A 26MM TP GRANDE DO34 0	
		ZD152	0DZ562609AA	DIODE,ZENERS	GDZJ5.6B 26MM TP GRANDE DO34	
*** BOARD ASSEMBLY ***						
		A43	3501RF0528A	BOARD ASSEMBLY	DVD DF9911PH	
		280	3721R-F995A	PANEL ASSEMBLY,FRONT[NORMAL PA	DF9911PH HA2ILL P/FRONT ASSY	NSP
		452	1SZZR-0098A	SCREW,DRAWING	+ 2 D3.0 L10.0 MSWR3/FZMCY-1 3	
		A50	6871R-7560A	PWB(PCB) ASSEMBLY,TOTAL	DF9000S TIMER/KEY PWB SH	
		CN901	6630R-FB05L	CONNECTOR (CIRC),FFC/FPC	00-6232-012-104-800 ELCO 12P 1	
		CN902	6630R-FB05H	CONNECTOR (CIRC),FFC/FPC	00-6232-008-104-800 ELCO 8PIN	
		CN903	6630R-FB05H	CONNECTOR (CIRC),FFC/FPC	00-6232-008-104-800 ELCO 8PIN	
		DIG901	6301R2U017A	LED ASSEMBLY	TOS-2604AG-B4 OASIS UNIVERSAL	
		LED901	0DLLT0359AA	LED	LITEON LTL87HTBK TP BLUE 50MCD	
		LED902	0DLLT0359AA	LED	LITEON LTL87HTBK TP BLUE 50MCD	
		RC901	6712R1238HA	REMOTE CONTROLLER RECEIVER	AT138ARF1 OPTO 346HF6N2-B 38K	
		C903	0CH4151K412	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C904	0CH4151K412	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C905	0CH4151K412	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C906	0CH4151K412	CAPA,CHIP CERAMIC M/L T.C F/S	150P 50V J COG 1.6X0.8 R/TP	
		C907	0CH1102K562	CAPACITOR,FIXED CERAMIC(TEMP.C	1000PF 50V 10% X7R(X) 1608 R/T	
		C907	0CH1102K512	CAPACITOR,FIXED CERAMIC(TEMP.C	1000PF 50V 10% B(5YP) 1608 R/T	ALTERNATE
		C908	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	

S	AL	LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C909	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		IC901	0IPRPPY005A	IC, PERIPHERALS	PT6963 PTC 32PIN SO R/TP LED D	
		IC901	0IPRPPY007A	IC, PERIPHERALS	PT6961 PTC 32PIN SOP R/TP LED	ALTERNATE
		L901	6200HJC102A	FILTER (CIRC), EMC	HB-1M2012-102JT CERATECH TP	
		R901	0RH5102C622	RESISTOR, METAL GLAZED (CHIP)	51K OHM 1 / 16 W 1608 5.00% D	
		R902	0RH4701C622	RESISTOR, METAL GLAZED (CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R903	0RH4701C622	RESISTOR, METAL GLAZED (CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R904	0RH4701C622	RESISTOR, METAL GLAZED (CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R905	0RH4701C622	RESISTOR, METAL GLAZED (CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R906	0RH4701C622	RESISTOR, METAL GLAZED (CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R907	0RH0471C622	RESISTOR, METAL GLAZED (CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	
		R908	0RH2200C622	RESISTOR, METAL GLAZED (CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R909	0RH2200C622	RESISTOR, METAL GLAZED (CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		C901	0CE2274C638	CAPACITOR, ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C902	0CE4764C638	CAPACITOR, ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
		SW901	556-219B	SWITCH, TACT	THV10910G TACT DC 12 V 5-0 A V	
		SW901	6600R000036	SWITCH, TACT	EVQ 225 05R MATSUSHITA 15VDC 2	ALTERNATE
		SW902	556-219B	SWITCH, TACT	THV10910G TACT DC 12 V 5-0 A V	
		SW902	6600R000036	SWITCH, TACT	EVQ 225 05R MATSUSHITA 15VDC 2	ALTERNATE
		SW903	556-219B	SWITCH, TACT	THV10910G TACT DC 12 V 5-0 A V	
		SW903	6600R000036	SWITCH, TACT	EVQ 225 05R MATSUSHITA 15VDC 2	ALTERNATE
		SW904	556-219B	SWITCH, TACT	THV10910G TACT DC 12 V 5-0 A V	
		SW904	6600R000036	SWITCH, TACT	EVQ 225 05R MATSUSHITA 15VDC 2	ALTERNATE
		SW905	556-219B	SWITCH, TACT	THV10910G TACT DC 12 V 5-0 A V	
		SW905	6600R000036	SWITCH, TACT	EVQ 225 05R MATSUSHITA 15VDC 2	ALTERNATE
		SW906	556-219B	SWITCH, TACT	THV10910G TACT DC 12 V 5-0 A V	
		SW906	6600R000036	SWITCH, TACT	EVQ 225 05R MATSUSHITA 15VDC 2	ALTERNATE
		SW907	556-219B	SWITCH, TACT	THV10910G TACT DC 12 V 5-0 A V	
		SW907	6600R000036	SWITCH, TACT	EVQ 225 05R MATSUSHITA 15VDC 2	ALTERNATE
*** SUB PWB(PCB) ASSEMBLY ***						
		A46	6885R-9873A	SUB PWB(PCB) ASSEMBLY	I(49) N(4E) 00(ENG) EF 03 55 F	
		IC502A	6957R-919AA	PROGRAM	LT9C702C3E MIH DF9911PH HA2ILL	
		C202	0CE2274C638	CAPACITOR, ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C204	0CE2274C638	CAPACITOR, ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C205	0CE4764C638	CAPACITOR, ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
		C206	0CE4764C638	CAPACITOR, ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
		C217	0CE1074C638	CAPACITOR, FIXED ELECTROLYTIC	100UF SRA, SS 6.3V 20% FM5 TP 5	
		C220	0CE2274C638	CAPACITOR, ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C233	0CE2274C638	CAPACITOR, ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C582	0CE1064F638	CAPACITOR, ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C584	0CE2264F638	CAPACITOR, FIXED ELECTROLYTIC	22UF SRA, SS 16V 20% FM5 TP 5	
		C588	0CE1064F638	CAPACITOR, ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C5A4	0CE4764C638	CAPACITOR, ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
		C5A5	0CE4764C638	CAPACITOR, ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
		C5A6	0CE2264F638	CAPACITOR, FIXED ELECTROLYTIC	22UF SRA, SS 16V 20% FM5 TP 5	
		C5A7	0CE1064F638	CAPACITOR, ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C5A8	0CE1064F638	CAPACITOR, ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C5A9	0CE4764C638	CAPACITOR, ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
		C5B5	0CE2274C638	CAPACITOR, ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C5B9	0CE1074F638	CAPACITOR, FIXED ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C5C1	0CE1064F638	CAPACITOR, ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C5C2	0CE1074C638	CAPACITOR, FIXED ELECTROLYTIC	100UF SRA, SS 6.3V 20% FM5 TP 5	
		C5C3	0CE2274C638	CAPACITOR, ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C604	0CE4764C638	CAPACITOR, ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
		C605	0CE1064F638	CAPACITOR, ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C606	0CE2264F638	CAPACITOR, FIXED ELECTROLYTIC	22UF SRA, SS 16V 20% FM5 TP 5	
		C607	0CE2264F638	CAPACITOR, FIXED ELECTROLYTIC	22UF SRA, SS 16V 20% FM5 TP 5	

S	AL	LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C612	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C619	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C620	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C621	0CE2264F638	CAPACITOR,FIXED ELECTROLYTIC	22UF SRA,SS 16V 20% FM5 TP 5	
		C622	0CE2264F638	CAPACITOR,FIXED ELECTROLYTIC	22UF SRA,SS 16V 20% FM5 TP 5	
		C634	0CE2264F638	CAPACITOR,FIXED ELECTROLYTIC	22UF SRA,SS 16V 20% FM5 TP 5	
		C636	0CE4764C638	CAPACITOR,ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
		C639	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C640	0CE1086C638	CAPACITOR,FIXED ELECTROLYTIC	1000000000 PF SMS,SG 6.3V M FM	
		C641	0CE1086C638	CAPACITOR,FIXED ELECTROLYTIC	1000000000 PF SMS,SG 6.3V M FM	
		C642	0CE1086C638	CAPACITOR,FIXED ELECTROLYTIC	1000000000 PF SMS,SG 6.3V M FM	
		C643	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C644	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C650	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C6W3	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		CN203	561-711D	CONNECTOR (CIRC),HOUSING	GIL-S-04P-S2T2-EF LG CABLE 4PI	
		CN204	561-711E	CONNECTOR (CIRC),WAFER	GIL-S-05P-S2T2-EF LG CABLE 5PI	
		CN501	6630R-FB10L	CONNECTOR (CIRC),FFC/FPC	00-6232-012-006-800 ELCO 12PIN	
		CN502	561-711J	CONNECTOR (CIRC),WAFER	GIL-S-10P-S2T2-EF LG CABLE 10P	
		CN504	561-711E	CONNECTOR (CIRC),WAFER	GIL-S-05P-S2T2-EF LG CABLE 5PI	
		IC505	0IKE702900D	IC,LINEAR	KIA7029AP TO-92 TP 2.9V DETECT	
		IC505	0IPMGA0014A	IC,POWER MANAGEMENT	AZ7029R AAC TO-92 ST 2.9V RESE	ALTERNATE
		JK601	6612J00044B	JACK,RCA	RCA/DIN-200 YUQIU	
		JK602	6612K00003B	JACK,FIBER OPTIC	PLT131/T5/12(12Mbps) EVERLIGHT	
		JK602	6612K00003A	JACK,FIBER OPTIC	PLT131/T5/6 EVERLIGHT PUSH TYP	ALTERNATE
		JK602	6612K00003D	JACK,FIBER OPTIC	JST1164 SOLTEAM	ALTERNATE
		L201	0LR0102J025	INDUCTOR,RADIAL LEAD	10UH 5% 4X5 TR5	
		L202	0LR0102J025	INDUCTOR,RADIAL LEAD	10UH 5% 4X5 TR5	
		X501	6212AA2270F	RESONATOR,CRYSTAL	HC-49S KYUNGIL 27MHZ +/- 20 PP	
		X501	6202R-BL06C	RESONATOR,CRYSTAL	HC-49/S BUBANG 27MHZ 20PPM 15	ALTERNATE
		X501	6212AA2270G	RESONATOR,CRYSTAL	HC-49S SOUTH STAR 27MHZ +/- 20	ALTERNATE
		C201	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C203	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C207	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C218	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C219	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C221	0CH1332K562	CAPACITOR,FIXED CERAMIC(TEMP.C	3300PF 50V 10% X7R(X) 1608 R/T	
		C230	0CH1222K562	CAPACITOR,FIXED CERAMIC(TEMP.C	2200PF 50V 10% X7R(X) 1608 R/T	
		C231	0CH1222K562	CAPACITOR,FIXED CERAMIC(TEMP.C	2200PF 50V 10% X7R(X) 1608 R/T	
		C235	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C236	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C501	0CH1105D942	CAPACITOR,FIXED CERAMIC(TEMP.C	1UF 10V 80%,-20% Y5V(F) 1608 R	
		C502	0CH1105D942	CAPACITOR,FIXED CERAMIC(TEMP.C	1UF 10V 80%,-20% Y5V(F) 1608 R	
		C503	0CH1105D942	CAPACITOR,FIXED CERAMIC(TEMP.C	1UF 10V 80%,-20% Y5V(F) 1608 R	
		C504	0CH1105D942	CAPACITOR,FIXED CERAMIC(TEMP.C	1UF 10V 80%,-20% Y5V(F) 1608 R	
		C505	0CH1105D942	CAPACITOR,FIXED CERAMIC(TEMP.C	1UF 10V 80%,-20% Y5V(F) 1608 R	
		C507	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C508	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C509	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C510	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C512	0CH4181K412	CAPACITOR,FIXED CERAMIC(HIGH D	180PF 50V 5% NP0 1608 R/TP	
		C513	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C514	0CH1153K562	CAPACITOR,FIXED CERAMIC(TEMP.C	0.015UF 50V 10% X7R(X) 1608 R/	
		C515	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C516	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C517	0CH4181K412	CAPACITOR,FIXED CERAMIC(HIGH D	180PF 50V 5% NP0 1608 R/TP	
		C518	0CH1152K562	CAPACITOR,FIXED CERAMIC(TEMP.C	1500PF 50V 10% X7R(X) 1608 R/T	

S	AL	LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C519	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C520	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C521	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C522	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C523	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C524	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C525	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C526	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C527	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C528	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C529	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C530	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C531	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C532	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C533	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C534	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C535	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C536	0CH4221K412	CAPACITOR, FIXED CERAMIC (HIGH D	220PF 50V 5% NP0 1608 R/TP	
		C537	0CH4221K412	CAPACITOR, FIXED CERAMIC (HIGH D	220PF 50V 5% NP0 1608 R/TP	
		C540	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C541	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C543	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C549	0CH1474H942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.47UF 25V 80%, -20% Y5V(F) 160	
		C552	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C553	0CH1473K942	CAPACITOR, FIXED CERAMIC (Temp. c	0.047UF 50V 80%, -20% Y5V(F) 16	
		C554	0CH1473K942	CAPACITOR, FIXED CERAMIC (Temp. c	0.047UF 50V 80%, -20% Y5V(F) 16	
		C555	0CH1105D942	CAPACITOR, FIXED CERAMIC (TEMP. C	1UF 10V 80%, -20% Y5V(F) 1608 R	
		C556	0CH4391K412	CAPACITOR, FIXED CERAMIC (HIGH D	390PF 50V 5% NP0 1608 R/TP	
		C557	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C558	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C559	0CH1105D942	CAPACITOR, FIXED CERAMIC (TEMP. C	1UF 10V 80%, -20% Y5V(F) 1608 R	
		C560	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C561	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C562	0CH1102K562	CAPACITOR, FIXED CERAMIC (TEMP. C	1000PF 50V 10% X7R(X) 1608 R/T	
		C563	0CH4200K412	CAPACITOR, FIXED CERAMIC (HIGH D	20PF 50V 5% NP0 1608 R/TP	
		C564	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C565	0CH1333K562	CAPACITOR, FIXED CERAMIC (TEMP. C	0.033UF 50V 10% X7R(X) 1608 R/	
		C567	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C568	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C569	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C570	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C571	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C573	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C574	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C575	0CH1103K562	CAPACITOR, FIXED CERAMIC (TEMP. C	0.01UF 50V 10% X7R(X) 1608 R/T	
		C576	0CH1222K562	CAPACITOR, FIXED CERAMIC (TEMP. C	2200PF 50V 10% X7R(X) 1608 R/T	
		C577	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C578	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C579	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C580	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C581	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C583	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C585	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C586	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C587	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C589	0CH1104K942	CAPACITOR, FIXED CERAMIC (TEMP. C	0.1UF 50V 80%, -20% Y5V(F) 1608	
		C593	0CH4150K412	CAPA, CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	

S	AL	LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C594	0CH4120K412	CAPACITOR, FIXED CERAMIC(HIGH D	12PF 50V 5% NP0 1608 R/TP	
		C595	0CH4221K412	CAPACITOR, FIXED CERAMIC(HIGH D	220PF 50V 5% NP0 1608 R/TP	
		C596	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C597	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C598	0CH4221K412	CAPACITOR, FIXED CERAMIC(HIGH D	220PF 50V 5% NP0 1608 R/TP	
		C599	0CH4221K412	CAPACITOR, FIXED CERAMIC(HIGH D	220PF 50V 5% NP0 1608 R/TP	
		C5A1	0CH4470K412	CAPA,CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C5A2	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C5B1	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C5B2	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C5B3	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C5B4	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C5B6	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C5B7	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C5B8	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C601	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C603	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C609	0CH1102K562	CAPACITOR, FIXED CERAMIC(TEMP.C	1000PF 50V 10% X7R(X) 1608 R/T	
		C610	0CH1102K562	CAPACITOR, FIXED CERAMIC(TEMP.C	1000PF 50V 10% X7R(X) 1608 R/T	
		C611	0CH4101K412	CAPACITOR, FIXED CERAMIC(HIGH D	100PF 50V 5% NP0 1608 R/TP	
		C614	0CH4101K412	CAPACITOR, FIXED CERAMIC(HIGH D	100PF 50V 5% NP0 1608 R/TP	
		C618	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C623	0CH1392K562	CAPACITOR, FIXED CERAMIC(TEMP.C	3900PF 50V 10% X7R(X) 1608 R/T	
		C624	0CH1392K562	CAPACITOR, FIXED CERAMIC(TEMP.C	3900PF 50V 10% X7R(X) 1608 R/T	
		C633	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C635	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C651	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C6W1	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C6W2	0CH1104K942	CAPACITOR, FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C6W4	0CH4101K412	CAPACITOR, FIXED CERAMIC(HIGH D	100PF 50V 5% NP0 1608 R/TP	
		C6W5	0CH4270K412	CAPACITOR, FIXED CERAMIC(HIGH D	27PF 50V 5% NP0 1608 R/TP	
		C6W6	0CH4101K412	CAPACITOR, FIXED CERAMIC(HIGH D	100PF 50V 5% NP0 1608 R/TP	
		CN201	6630XE00123	CONNECTOR (CIRC),FFC/FPC	04-6232-023-010-000/JE500-B1.0	
		CN202	6630XE00106	CONNECTOR (CIRC),FFC/FPC	JE500-B1.0-T06/04-6232-006-010	
		CN602	6630XE00118	CONNECTOR (CIRC),FFC/FPC	04-6232-018-010-000/JE500-B1.0	
		F600	6200JB8010V	FILTER(CIRC),EMC	LFA20-2A1E473MT MITSUBISHI MAT	
		IC201	01LNRIJ003A	IC, LINEAR	IP9005LTF INTERPION 28PIN,SSOP	
		IC501	01LNRFN009A	IC, LINEAR	MT1389FE//BO2-L MEDIATEK INCOR	
		IC503	01MMRHY001E	IC, MEMORIES	HY57V641620HGT-7 HYUNDAI 54PIN	
		IC503	01MMREB004A	IC, MEMORIES	M12L64164A-7T ELITE MEMORY TEC	ALTERNATE
		IC503	01MMREB004D	IC, MEMORIES	M12L64164A-7TG ESMT 54P TSOPII	ALTERNATE
		IC506	01PMGUC006B	IC, POWER MANAGEMENT	LD1117A-1.8V UTC 3PIN,SOT-223	
		IC506	01PMGAU008A	IC, POWER MANAGEMENT	S1117-18Q AUK KOREA 3PIN,SOT-2	ALTERNATE
		IC506	01PMGA0013A	IC, POWER MANAGEMENT	AZ1117H-1.8 AAC 3PIN,SOT-223 R	ALTERNATE
		IC512	0ISS240210A	IC, SAMSUNG ELECTRONICS	S524A40X21-SCT0 SOP8 TP EEPROM	
		IC512	01MMRSE002A	IC, MEMORIES	S-24CC02A-J8T1G SEIKO 8PIN,SOP	ALTERNATE
		IC601	01PRPCI016A	IC, PERIPHERALS	CS4344 CIRRUS LOGIC 10PIN,TSSO	
		IC602	01LNRA0001A	IC, LINEAR	AZ4580 AAC 8PIN,DIP ST OPAMP	
		IC602	01LNROC001A	IC, LINEAR	MC4580 UTC 8PIN,SOP R/TP 2CH O	ALTERNATE
		IC602	01LNRAU017A	IC, LINEAR	S4580 AUK KOREA 8PIN,SOP R/TP	ALTERNATE
		IC604	01PRPMT008A	IC, PERIPHERALS	MM1623XFBE MITSUMI 28PIN SOP R	
		L204	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L205	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L206	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L207	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L208	0LCCE00004E	INDUCTOR,CHIP	FI-C2012-103KJT (10UH) CERATEC	
		L502	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	

S	AL	LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		L503	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L504	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L505	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L509	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L512	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L601	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L602	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L690	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		Q201	0TR103709BB	TRANSISTOR,BIPOLARS	2SA1037K-Q CHIP TP ROHM - -	
		Q201	0TR150409AC	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	ALTERNATE
		Q201	0TRON80008A	TRANSISTOR,BIPOLARS	MSA1162YT1G ON SEMI(MOTOROLA)	ALTERNATE
		Q201	0TRAU80008A	TRANSISTOR,BIPOLARS	AUK KOREA 2SA1980SY R/TP SOT23	ALTERNATE
		Q202	0TR103709BB	TRANSISTOR,BIPOLARS	2SA1037K-Q CHIP TP ROHM - -	
		Q202	0TR150409AC	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	ALTERNATE
		Q202	0TRON80008A	TRANSISTOR,BIPOLARS	MSA1162YT1G ON SEMI(MOTOROLA)	ALTERNATE
		Q202	0TRAU80008A	TRANSISTOR,BIPOLARS	AUK KOREA 2SA1980SY R/TP SOT23	ALTERNATE
		Q205	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q205	0TRON80009A	TRANSISTOR,BIPOLARS	BC846ALT1 ON SEMI(MOTOROLA) R/	ALTERNATE
		Q205	0TRAU80017A	TRANSISTOR,BIPOLARS	2SC5343SG AUK KOREA R/TP SOT23	ALTERNATE
		Q206	0TRRH80042A	TRANSISTOR,BIPOLARS	2SK3018 T106 ROHM KOREA R/TP U	
		Q207	0TRRH80042A	TRANSISTOR,BIPOLARS	2SK3018 T106 ROHM KOREA R/TP U	
		Q600	0TR103709BB	TRANSISTOR,BIPOLARS	2SA1037K-Q CHIP TP ROHM - -	
		Q600	0TR150409AC	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	ALTERNATE
		Q600	0TRAU80008A	TRANSISTOR,BIPOLARS	AUK KOREA 2SA1980SY R/TP SOT23	ALTERNATE
		Q600	0TRON80008A	TRANSISTOR,BIPOLARS	MSA1162YT1G ON SEMI(MOTOROLA)	ALTERNATE
		Q603	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q603	0TRON80009A	TRANSISTOR,BIPOLARS	BC846ALT1 ON SEMI(MOTOROLA) R/	ALTERNATE
		Q603	0TRAU80017A	TRANSISTOR,BIPOLARS	2SC5343SG AUK KOREA R/TP SOT23	ALTERNATE
		Q604	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q604	0TRON80009A	TRANSISTOR,BIPOLARS	BC846ALT1 ON SEMI(MOTOROLA) R/	ALTERNATE
		Q604	0TRAU80017A	TRANSISTOR,BIPOLARS	2SC5343SG AUK KOREA R/TP SOT23	ALTERNATE
		R201	0RH0471C622	RESISTOR,METAL GLAZED(CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	
		R202	0RH0471C622	RESISTOR,METAL GLAZED(CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	
		R205	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R206	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R208	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R209	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R210	0RH0101D622	RESISTOR,METAL GLAZED(CHIP)	1 OHM 1 / 10 W 2012 5.00% D	
		R211	0RJ7503C677	RESISTOR,METAL GLAZED(CHIP)	750K OHM 1/16 W 5% 1608 R/TP	
		R212	0RH3903C622	RESISTOR,METAL GLAZED(CHIP)	390K OHM 1 / 16 W 1608 5.00% D	
		R213	0RH3903C622	RESISTOR,METAL GLAZED(CHIP)	390K OHM 1 / 16 W 1608 5.00% D	
		R214	0RJ7503C677	RESISTOR,METAL GLAZED(CHIP)	750K OHM 1/16 W 5% 1608 R/TP	
		R215	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R219	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R222	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R223	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R225	0RH2002C622	RESISTOR,METAL GLAZED(CHIP)	20K OHM 1 / 16 W 1608 5.00% D	
		R226	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R227	0RH2202C622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R231	0RH2202C622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R232	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R233	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R236	0RH6802C622	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 16 W 1608 5.00% D	
		R238	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R240	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R241	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R243	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R244	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R245	0RH5603C622	RESISTOR,METAL GLAZED(CHIP)	560K OHM 1 / 16 W 1608 5.00% D	
		R264	0RH2702C622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R265	0RH1503C622	RESISTOR,METAL GLAZED(CHIP)	150K OHM 1 / 16 W 1608 5.00% D	
		R266	0RH1200C622	RESISTOR,METAL GLAZED(CHIP)	120 OHM 1 / 16 W 1608 5.00% D	
		R267	0RH2702C622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R268	0RH1503C622	RESISTOR,METAL GLAZED(CHIP)	150K OHM 1 / 16 W 1608 5.00% D	
		R270	0RH1200C622	RESISTOR,METAL GLAZED(CHIP)	120 OHM 1 / 16 W 1608 5.00% D	
		R504	0RH2002C622	RESISTOR,METAL GLAZED(CHIP)	20K OHM 1 / 16 W 1608 5.00% D	
		R505	0RH1802C622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R507	0RH1802C622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R509	0RH1202C622	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 16 W 1608 5.00% D	
		R510	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R511	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R512	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R513	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R514	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R515	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R516	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R517	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R518	0RH0681C622	RESISTOR,METAL GLAZED(CHIP)	6.8 OHM 1 / 16 W 1608 5.00% D	
		R519	0RH3301C622	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R520	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R521	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R522	0RH2001C622	RESISTOR,METAL GLAZED(CHIP)	2K OHM 1 / 16 W 1608 5.00% D	
		R523	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R524	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R525	0RJ7503C677	RESISTOR,METAL GLAZED(CHIP)	750K OHM 1/16 W 5% 1608 R/TP	
		R526	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R527	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R528	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R529	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R530	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R532	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R558	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R559	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R566	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R569	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R571	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R580	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R581	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R582	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R586	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R590	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R591	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R601	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R602	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R603	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R605	0RH6801C622	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R606	0RH6801C622	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R607	0RH1202C622	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 16 W 1608 5.00% D	
		R608	0RH6801C622	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R609	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R610	0RH0471C622	RESISTOR,METAL GLAZED(CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	
		R612	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R613	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R615	0RH6801C622	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R616	0RH1202C622	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 16 W 1608 5.00% D	
		R619	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R620	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R621	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R622	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R623	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R624	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R626	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R627	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R640	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R641	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R643	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R644	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R645	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R646	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R648	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R649	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R650	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R655	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R656	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R657	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R658	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R659	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R660	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R661	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R663	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R667	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R668	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R669	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R6W1	0RH1100C622	RESISTOR,METAL GLAZED(CHIP)	110 OHM 1 / 16 W 1608 5.00% D	
		R6W2	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R6W3	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R6W4	0RH1100C622	RESISTOR,METAL GLAZED(CHIP)	110 OHM 1 / 16 W 1608 5.00% D	
		R6W5	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		C628	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C629	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C630	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C631	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C632	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
*** PWB(PCB) ASSEMBLY,TOTAL ***						
		A45	6871R-9279A	PWB(PCB) ASSEMBLY,TOTAL	DF9000S MEMORY CARD BOARD ASS	
		C1001	0CH1105D942	CAPACITOR,FIXED CERAMIC(TEMP.C	1UF 10V 80%,-20% Y5V(F) 1608 R	
		C1002	0CS106EC5DC	CAPACITOR,FIXED TANTALUM	10UF 3216 6.3V 10% SMD R/TP(SM	
		C1003	0CH1474K562	CAPACITOR,FIXED CERAMIC(TEMP.C	470000PF 1608 50V 10% - R/TP	
		C1004	0CH4100K412	CAPACITOR,FIXED CERAMIC(HIGH D	10PF 50V 5% NP0 1608 R/TP	
		C1005	0CH4100K412	CAPACITOR,FIXED CERAMIC(HIGH D	10PF 50V 5% NP0 1608 R/TP	
		C1006	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C1007	0CH1105D942	CAPACITOR,FIXED CERAMIC(TEMP.C	1UF 10V 80%,-20% Y5V(F) 1608 R	
		C1008	0CE476SF6DC	CAPACITOR,FIXED ELECTROLYTIC	47UF MVG 16V 20% SMD R/TP	
		C1009	0CS106EC5DC	CAPACITOR,FIXED TANTALUM	10UF 3216 6.3V 10% SMD R/TP(SM	
		C1010	0CH1103K512	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C1011	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C1012	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C1013	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C1014	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C1015	0CH4100K412	CAPACITOR,FIXED CERAMIC(HIGH D	10PF 50V 5% NP0 1608 R/TP	
		C1016	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	

S	AL	LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C1017	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C1018	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C1019	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C1020	0CS106EC5DC	CAPACITOR,FIXED TANTALUM	10UF 3216 6.3V 10% SMD R/TP(SM	
		C1021	0CS106EC5DC	CAPACITOR,FIXED TANTALUM	10UF 3216 6.3V 10% SMD R/TP(SM	
		C1022	0CS106EC5DC	CAPACITOR,FIXED TANTALUM	10UF 3216 6.3V 10% SMD R/TP(SM	
		CN1001	6630R3S006F	CONNECTOR(CIRC),DRAWING	GT200 LG CABLE 5PIN 2MM STRAIG	
		D1001	0DD193009AB	DIODE,RECTIFIERS	KDS193(F3) CHIP TP KEC	
		IC1001	0IPRP00536A	IC,PERIPHERALS	SUSB2010 SAIN 80PIN,LQFP TRAY	
		IC1002	0IMP242560A	IC,MEMORIES	24LC256-I/SM 8P,SOP TP 256K II	
		IC1003	0IPMG00059A	IC,POWER MANAGEMENT	UR133A-3.3V-C UTC 4PIN,SOT-89	
		JK1001	6630C00019A	CONNECTOR (CIRC),CARD BUS	152-4001005901-AY TAI-SOL SPEC	
		JK1002	6630CZ018ZW	CONNECTOR (CIRC),CARD BUS	149-2120012901 TAI-SOL SPECIAL	
		Q1001	0TFON80004A	TRANSISTOR,FETS	NTR1P02T1G ON SEMI(MOTOROLA) R	
		Q1002	0TFON80004A	TRANSISTOR,FETS	NTR1P02T1G ON SEMI(MOTOROLA) R	
		Q1003	0TFON80004A	TRANSISTOR,FETS	NTR1P02T1G ON SEMI(MOTOROLA) R	
		R1001	0RH1501C622	RESISTOR,METAL GLAZED(CHIP)	1.5K OHM 1 / 16 W 1608 5.00% D	
		R1002	0RJ0392C477	RESISTOR,METAL GLAZED(CHIP)	39 OHM 1/16 W 1% 1608 R/TP	
		R1003	0RJ0392C477	RESISTOR,METAL GLAZED(CHIP)	39 OHM 1/16 W 1% 1608 R/TP	
		R1004	0RH5102C622	RESISTOR,METAL GLAZED(CHIP)	51K OHM 1 / 16 W 1608 5.00% D	
		R1005	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R1006	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R1007	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R1008	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R1009	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R1010	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R1011	0RJ1212C477	RESISTOR,METAL GLAZED(CHIP)	12.1K OHM 1/16 W 1% 1608 R/TP	
		R1012	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R1013	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R1014	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R1015	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R1016	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R1017	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R1018	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R1019	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R1020	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R1021	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R1022	0RRZVTA0013	RESISTOR,DRAWING	220 OHM 1/16W 3216 5% R/TR 8T4	
		R1023	0RRZVTA0013	RESISTOR,DRAWING	220 OHM 1/16W 3216 5% R/TR 8T4	
		R1024	0RRZVTA0014	RESISTOR,DRAWING	10K OHM 1/16W 3216 5% R/TR 8T4	
		R1025	0RRZVTA0014	RESISTOR,DRAWING	10K OHM 1/16W 3216 5% R/TR 8T4	
		R1026	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R1027	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R1028	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R1029	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R1030	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R1031	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R1032	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R1033	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R1034	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R1035	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R1036	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R1037	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R1038	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R1039	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R1040	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R1041	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R1042	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R1043	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R1044	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R1045	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R1046	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R1047	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R1048	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R1049	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R1050	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R1051	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R1052	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R1053	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R1054	0RH6800C622	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R1055	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R1056	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R1057	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R1058	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R1059	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R1060	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R1061	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R1063	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		X1001	6212AB2120E	RESONATOR,CRYSTAL	HC-49/S SMD CSC(SSANGTAI) 12MH	
*** PWB(PCB) ASSEMBLY,TOTAL ***						
		A48	6871R-9716A	PWB(PCB) ASSEMBLY,TOTAL	DF 9000S I/O BOARD PWB TOTAL A	
		CN301	6630R-FB05R	CONNECTOR (CIRC),FFC/FPC	00-6232-018-104-800 ELCO 18PIN	
		JK301	6612JH002XB	JACK,RCA	RCA-621A-01 YUQIU DV 8000 SERI	
		C302	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C305	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C306	0CH1102K562	CAPACITOR,FIXED CERAMIC(TEMP.C	1000PF 50V 10% X7R(X) 1608 R/T	
		C307	0CH4101K412	CAPACITOR,FIXED CERAMIC(HIGH D	100PF 50V 5% NP0 1608 R/TP	
		C308	0CH1392K562	CAPACITOR,FIXED CERAMIC(TEMP.C	3900PF 50V 10% X7R(X) 1608 R/T	
		C313	0CH1102K562	CAPACITOR,FIXED CERAMIC(TEMP.C	1000PF 50V 10% X7R(X) 1608 R/T	
		C314	0CH4101K412	CAPACITOR,FIXED CERAMIC(HIGH D	100PF 50V 5% NP0 1608 R/TP	
		C316	0CH1102K562	CAPACITOR,FIXED CERAMIC(TEMP.C	1000PF 50V 10% X7R(X) 1608 R/T	
		C317	0CH4101K412	CAPACITOR,FIXED CERAMIC(HIGH D	100PF 50V 5% NP0 1608 R/TP	
		C319	0CH1392K562	CAPACITOR,FIXED CERAMIC(TEMP.C	3900PF 50V 10% X7R(X) 1608 R/T	
		C324	0CH1392K562	CAPACITOR,FIXED CERAMIC(TEMP.C	3900PF 50V 10% X7R(X) 1608 R/T	
		C327	0CH1392K562	CAPACITOR,FIXED CERAMIC(TEMP.C	3900PF 50V 10% X7R(X) 1608 R/T	
		C328	0CH4101K412	CAPACITOR,FIXED CERAMIC(HIGH D	100PF 50V 5% NP0 1608 R/TP	
		C329	0CH1102K562	CAPACITOR,FIXED CERAMIC(TEMP.C	1000PF 50V 10% X7R(X) 1608 R/T	
		C330	0CH4101K412	CAPACITOR,FIXED CERAMIC(HIGH D	100PF 50V 5% NP0 1608 R/TP	
		C331	0CH1102K562	CAPACITOR,FIXED CERAMIC(TEMP.C	1000PF 50V 10% X7R(X) 1608 R/T	
		C335	0CH4101K412	CAPACITOR,FIXED CERAMIC(HIGH D	100PF 50V 5% NP0 1608 R/TP	
		C336	0CH1102K562	CAPACITOR,FIXED CERAMIC(TEMP.C	1000PF 50V 10% X7R(X) 1608 R/T	
		C337	0CH1392K562	CAPACITOR,FIXED CERAMIC(TEMP.C	3900PF 50V 10% X7R(X) 1608 R/T	
		C340	0CH1392K562	CAPACITOR,FIXED CERAMIC(TEMP.C	3900PF 50V 10% X7R(X) 1608 R/T	
		C344	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		C345	0CH1104K942	CAPACITOR,FIXED CERAMIC(TEMP.C	0.1UF 50V 80%,-20% Y5V(F) 1608	
		D311	0DD184009AA	DIODE,SWITCHING	CHIP KDS184-T1(B3) KEC	
		D311	0DS202009CA	DIODE,SWITCHING	DAN202K TP ROHM KOREA SOT23 80	ALTERNATE
		D312	0DD184009AA	DIODE,SWITCHING	CHIP KDS184-T1(B3) KEC	
		D312	0DS202009CA	DIODE,SWITCHING	DAN202K TP ROHM KOREA SOT23 80	ALTERNATE
		IC301	0IPRPCI012A	IC,PERIPHERALS	CS4360-KZR CIRRUS LOGIC 28PIN,	
		IC302	0ILNRA0001A	IC,LINEAR	AZ4580 AAC 8PIN,DIP ST OPAMP	
		IC302	0ILNRAU017A	IC,LINEAR	S4580 AUK KOREA 8PIN,SOP R/TP	ALTERNATE
		IC302	0ILNRUC001A	IC,LINEAR	MC4580 UTC 8PIN,SOP R/TP 2CH O	ALTERNATE
		IC303	0ILNRA0001A	IC,LINEAR	AZ4580 AAC 8PIN,DIP ST OPAMP	

S	AL	LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		IC303	0ILNRUC001A	IC,LINEAR	MC4580 UTC 8PIN,SOP R/TP 2CH O	ALTERNATE
		IC303	0ILNRAU017A	IC,LINEAR	S4580 AUK KOREA 8PIN,SOP R/TP	ALTERNATE
		IC304	0ILNRA0001A	IC,LINEAR	AZ4580 AAC 8PIN,DIP ST OPAMP	
		IC304	0ILNRUC001A	IC,LINEAR	MC4580 UTC 8PIN,SOP R/TP 2CH O	ALTERNATE
		IC304	0ILNRAU017A	IC,LINEAR	S4580 AUK KOREA 8PIN,SOP R/TP	ALTERNATE
		Q301	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q301	0TRAU80017A	TRANSISTOR,BIPOLARS	2SC5343SG AUK KOREA R/TP SOT23	ALTERNATE
		Q301	0TRON80009A	TRANSISTOR,BIPOLARS	BC846ALT1 ON SEMI(MOTOROLA) R/	ALTERNATE
		Q302	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q302	0TRON80009A	TRANSISTOR,BIPOLARS	BC846ALT1 ON SEMI(MOTOROLA) R/	ALTERNATE
		Q302	0TRAU80017A	TRANSISTOR,BIPOLARS	2SC5343SG AUK KOREA R/TP SOT23	ALTERNATE
		Q303	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q303	0TRON80009A	TRANSISTOR,BIPOLARS	BC846ALT1 ON SEMI(MOTOROLA) R/	ALTERNATE
		Q303	0TRAU80017A	TRANSISTOR,BIPOLARS	2SC5343SG AUK KOREA R/TP SOT23	ALTERNATE
		Q304	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q304	0TRAU80017A	TRANSISTOR,BIPOLARS	2SC5343SG AUK KOREA R/TP SOT23	ALTERNATE
		Q304	0TRON80009A	TRANSISTOR,BIPOLARS	BC846ALT1 ON SEMI(MOTOROLA) R/	ALTERNATE
		Q305	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q305	0TRAU80017A	TRANSISTOR,BIPOLARS	2SC5343SG AUK KOREA R/TP SOT23	ALTERNATE
		Q305	0TRON80009A	TRANSISTOR,BIPOLARS	BC846ALT1 ON SEMI(MOTOROLA) R/	ALTERNATE
		Q306	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q306	0TRAU80017A	TRANSISTOR,BIPOLARS	2SC5343SG AUK KOREA R/TP SOT23	ALTERNATE
		Q306	0TRON80009A	TRANSISTOR,BIPOLARS	BC846ALT1 ON SEMI(MOTOROLA) R/	ALTERNATE
		Q307	0TR103009AC	TRANSISTOR	KRA103S-T1(PC)22-22 CHIP KEC	
		Q307	0TRAU80012A	TRANSISTOR,BIPOLARS	SRA2203S AUK KOREA R/TP SOT23	ALTERNATE
		Q307	0TRON80007A	TRANSISTOR,BIPOLARS	MMUN2112LT1 ON SEMI(MOTOROLA)	ALTERNATE
		Q308	0TR103009AC	TRANSISTOR	KRA103S-T1(PC)22-22 CHIP KEC	
		Q308	0TRAU80012A	TRANSISTOR,BIPOLARS	SRA2203S AUK KOREA R/TP SOT23	ALTERNATE
		Q308	0TRON80007A	TRANSISTOR,BIPOLARS	MMUN2112LT1 ON SEMI(MOTOROLA)	ALTERNATE
		R301	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R302	0RH102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R305	0RH102C622	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 16 W 1608 5.00% D	
		R306	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R307	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R308	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R309	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R310	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R311	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R312	0RH6801C622	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R313	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R314	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R315	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R316	0RH6801C622	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R317	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R318	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R319	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R320	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R321	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R322	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R323	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R324	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R325	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R326	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R327	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R328	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R329	0RH6801C622	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R330	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R331	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R332	0RH6801C622	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R333	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R334	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R335	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R336	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R337	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R338	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R339	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R340	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R341	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R342	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R343	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R344	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R345	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R346	0RH6801C622	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R347	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R348	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R349	0RH6801C622	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R350	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R361	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R362	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R363	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R364	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R365	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R366	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R367	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R368	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R369	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R370	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R371	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R372	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R375	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R376	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		C303	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C304	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C309	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C310	0CE4764F638	CAPACITOR,FIXED ELECTROLYTIC	47UF SRA,SS 16V 20% FM5 TP 5	
		C311	0CE4764F638	CAPACITOR,FIXED ELECTROLYTIC	47UF SRA,SS 16V 20% FM5 TP 5	
		C312	0CE4764F638	CAPACITOR,FIXED ELECTROLYTIC	47UF SRA,SS 16V 20% FM5 TP 5	
		C315	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C318	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C320	0CE4764F638	CAPACITOR,FIXED ELECTROLYTIC	47UF SRA,SS 16V 20% FM5 TP 5	
		C321	0CE4764F638	CAPACITOR,FIXED ELECTROLYTIC	47UF SRA,SS 16V 20% FM5 TP 5	
		C322	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C323	0CE4764F638	CAPACITOR,FIXED ELECTROLYTIC	47UF SRA,SS 16V 20% FM5 TP 5	
		C325	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C326	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C332	0CE4764F638	CAPACITOR,FIXED ELECTROLYTIC	47UF SRA,SS 16V 20% FM5 TP 5	
		C333	0CE4764F638	CAPACITOR,FIXED ELECTROLYTIC	47UF SRA,SS 16V 20% FM5 TP 5	
		C334	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C338	0CE4764F638	CAPACITOR,FIXED ELECTROLYTIC	47UF SRA,SS 16V 20% FM5 TP 5	
		C339	0CE4764F638	CAPACITOR,FIXED ELECTROLYTIC	47UF SRA,SS 16V 20% FM5 TP 5	
		C341	0CE4764F638	CAPACITOR,FIXED ELECTROLYTIC	47UF SRA,SS 16V 20% FM5 TP 5	
		C342	0CE4764F638	CAPACITOR,FIXED ELECTROLYTIC	47UF SRA,SS 16V 20% FM5 TP 5	
		C343	0CE3354K638	CAPACITOR,FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		F301	6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	

S	AL	LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		F302	6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		F303	6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		F304	6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		F305	6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		F306	6200HJC901A	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	