



LG Electronics Inc.

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SERVICE MANUAL

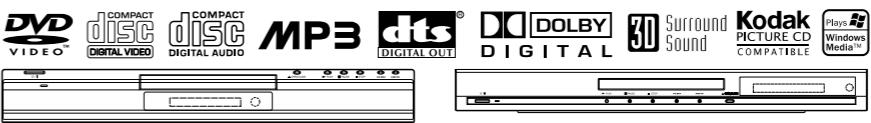
MODELS : DVD6054/DVD6184(DV7511E6S/DV7811E6S)

DVD VIDEO PLAYER **SERVICE MANUAL**

**MODELS : DVD6054/DVD6184
(DV7511E6S/DV7811E6S)**

CAUTION

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



DVD6054

DVD6184

LG Electronics Inc.

SECTION 1

SUMMARY

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PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS

IMPORTANT SAFETY NOTICE

This manual was prepared for use only by properly trained audio-video service technicians.

When servicing this product, under no circumstances should the original design be modified or altered without permission from LG Electronics Corporation. All components should be replaced only with types identical to those in the original circuit and their physical location, wiring and lead dress must conform to original layout upon completion of repairs.

Special components are also used to prevent x-radiation, shock and fire hazard. These components are indicated by the letter "x" included in their component designators and are required to maintain safe performance. No deviations are allowed without prior approval by LG Electronics Corporation.

Circuit diagrams 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.

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 property damage or user injury.

Service work should be performed only after you are thoroughly familiar with these safety checks and servicing guidelines.

GRAPHIC SYMBOLS



The exclamation point within an equilateral triangle is intended to alert the service personnel to important safety information in the service literature.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the service personnel to the presence of noninsulated "dangerous voltage" that may be of sufficient magnitude to constitute a risk of electric shock.



The pictorial representation of a fuse and its rating within an equilateral triangle is intended to convey to the service personnel the following fuse replacement caution notice:

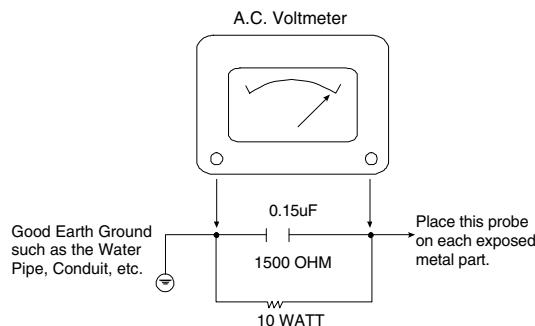
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ALL FUSES WITH THE SAME TYPE AND RATING AS MARKED NEAR EACH FUSE.

SERVICE INFORMATION

While servicing, use an isolation transformer for protection from AC line shock. After the original service problem has been corrected, make a check of the following:

FIRE AND SHOCK HAZARD

1. Be sure that all components are positioned to avoid a possibility of adjacent component shorts. This is especially important on items trans-ported to and from the repair shop.
2. Verify that all protective devices such as insulators, barriers, covers, shields, strain reliefs, power supply cords, and other hardware have been reinstalled per the 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 or damaged insulation (including the AC cord), and replace if necessary.
5. No lead or component should touch a high current device or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces must be avoided.
6. After reassembly of the set, always perform an AC leakage test on all exposed metallic parts of the cabinet (the channel selector knobs, antenna terminals, handle and screws) to be sure that set is safe to operate without danger of electrical shock. DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST. Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner: Connect a 1500 ohm, 10 watt resistor, paralleled by a .15 mfd 150V AC type capacitor between a known good earth ground water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and .15 mfd capacitor. Reverse the AC plug by using a non-polarized adaptor and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75 volts RMS. This corresponds to 0.5 millamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



TIPS ON PROPER INSTALLATION

1. Never install any receiver in a closed-in recess, cubbyhole, or closely fitting shelf space over, or close to, a 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 placement where draperies may obstruct venting. The customer should also avoid the use of decorative scarves or other coverings that 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 tests on customized installations.
5. Caution customers against mounting a product on a sloping shelf or in a tilted position, unless the receiver is properly secured.
6. A product on a roll-about cart should be stable in 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 using 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.

Remember 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 connecting 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 120V, 60Hz
Power consumption	14W
Dimensions(approx.)	430 x 43 x 242mm (W/h/d)
Weight(approx.)	2.34kg
Operating temperature	5°C to 35°C (41°F to 95°F)
Operating humidity	5% to 90%

• SYSTEM

Laser	Semiconductor laser, wavelength 650nm
Signal system	PAL/NTSC
Frequency response	DVD (PCM 96kHz): 8Hz to 44kHz DVD (PCM 48kHz): 2Hz to 22kHz CD: 8Hz to 20kHz
Signal-to-noise ratio	More than 100dB (ANALOG OUT connectors only)
Harmonic distortion	Less than 0.008%
Dynamic range	More than 100dB(DVD) More than 95dB(CD)

• OUTPUTS

VIDEO OUT	1 V (p-p) 75 Ω, sync negative, RCA jack x 1 (TO TV)
Audio output (digital audio)	0.5 V (p-p), 75 Ω, RCA jack x 1
Audio output (analog audio)	2.0 Vrms (1 kHz, 0 dB), 600 Ω, RCA jack (L, R) x 1 (TO TV)

SECTION 2

CABINET & MAIN CHASSIS

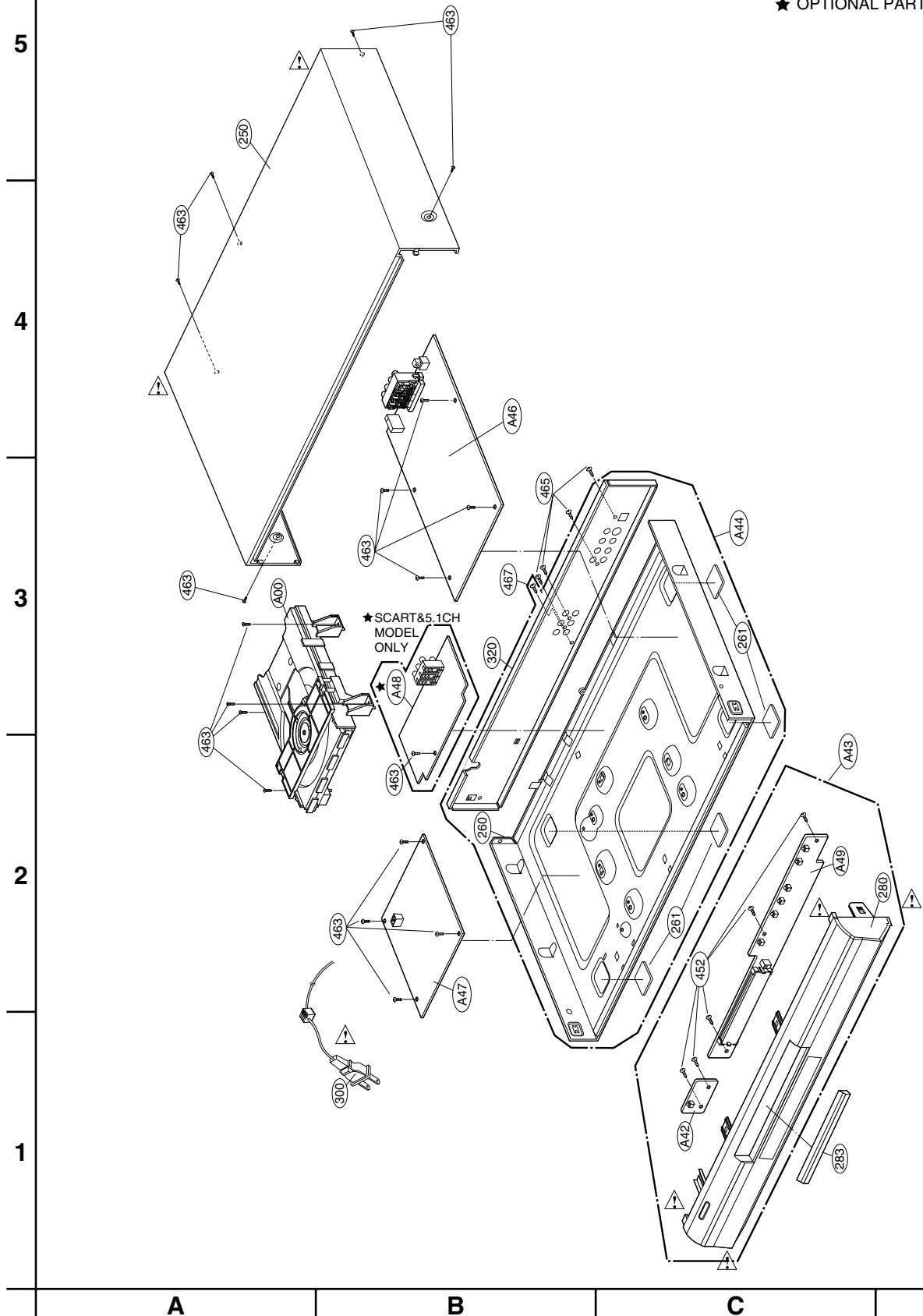
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EXPLODED VIEWS

1. Cabinet and Main Frame Section

★ OPTIONAL PART

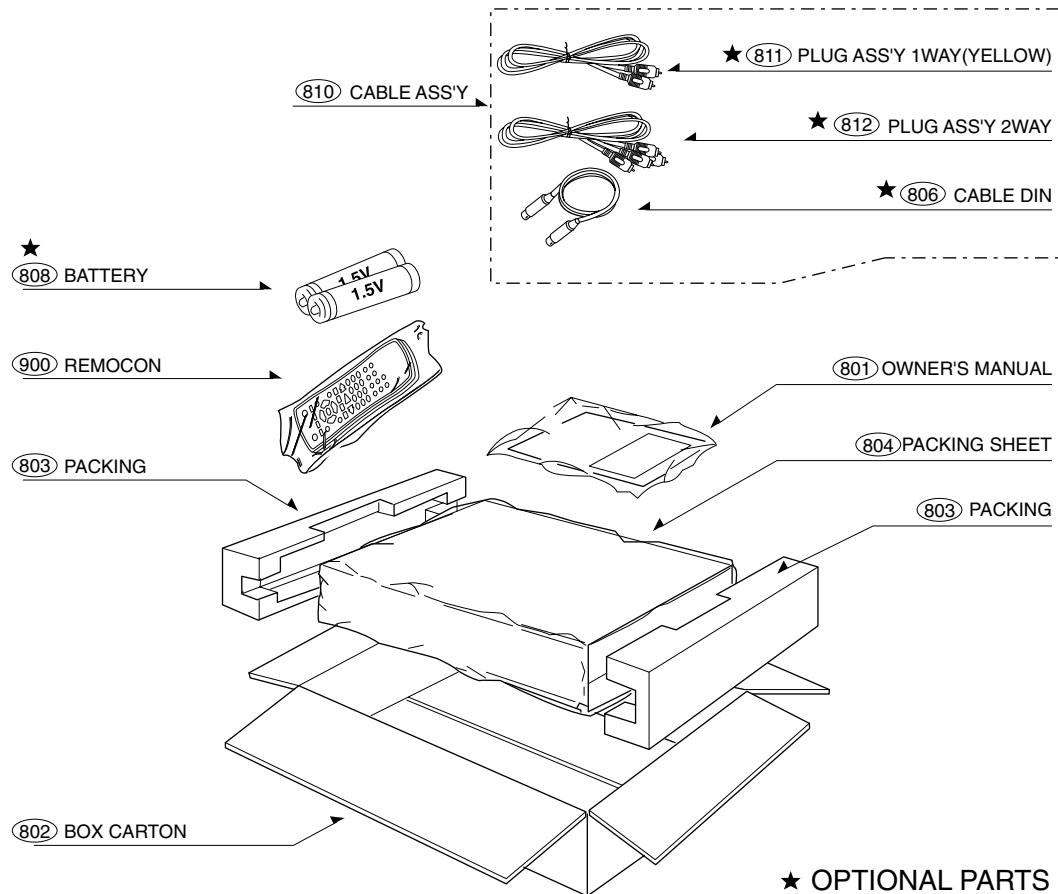


• Cabinet and Main Frame Section Part List

MODELS:(A)DV7511E6S(DVD6054) (B)DV7811E6S(DVD6184)

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
ASSEMBLY PARTS SECTION								
		A42	6871R-5725A	O		PWB(PCB) ASSEMBLY,TOTAL	DV7000S 5TOOL KEY SH	
		A42	6871R-5728A	O		PWB(PCB) ASSEMBLY,TOTAL	DV7000S 8TOOL KEY SH	
		A43	3501RF3007C	O		BOARD ASSEMBLY	DVD DV7811E4M HA3GLL	
		A43	3501RF6694F	O		BOARD ASSEMBLY	DVD DV7511E6L HA8PLL	
		A44	3141R-D003F	O		CHASSIS ASSEMBLY	DV7510E LSI,MTK 55MM	NSP
		A44	3141R-D004F	O		CHASSIS ASSEMBLY	DV7810E MTK 43MM	
		A46	6885R-1015D	O		SUB PWB(PCB) ASSEMBLY	DV7511E6S HA8PLL	
		A46	6885R-1015J	O		SUB PWB(PCB) ASSEMBLY	DV7811E6S HA8PLL	
		A47	6871R-7604C	O		PWB(PCB) ASSEMBLY,TOTAL	DV7000S SMPS SH 220V(CE)	
		A47	6871R-7604D	O		PWB(PCB) ASSEMBLY,TOTAL	DV7000S LSI SMPS SH 220V (CE)	
		A48	6871R-7601C	O	O	PWB(PCB) ASSEMBLY,TOTAL	DV7000S MTK SH SCART	
		A49	6871R-5715A	O		PWB(PCB) ASSEMBLY,TOTAL	DV7000S 5TOOL TIMER SH	
		A49	6871R-5718A	O		PWB(PCB) ASSEMBLY,TOTAL	DV7000S 8TOOL TIMER SH	
PARTS SECTION								
		250	3110R-D001A	O		CASE	DV7000 PRESS 430-55(A288G)	
		250	3110R-D004A	O		CASE	DV7000 PRESS 43MM A288G	
		260	3140R-D002A	O	O	CHASSIS	DV7000 PRESS MAIN	NSP
		261	5040R-0069D	O	O	RUBBER	FOOT(SILICONE SPONGE DS-08 T=	
		280	3721R-F306F	O		PANEL ASSEMBLY,FRONT NORMAL PA	DV7511E6L HA8PLL	NSP
		280	3721R-F318C	O		PANEL ASSEMBLY,FRONT NORMAL PA	DV7811E4M HA3GLL	NSP
		283	3581R-T068B	O		DOOR ASSEMBLY	TRAY DV7500 (CHINA)	
		283	3581R-T069A	O		DOOR ASSEMBLY	TRAY DV7800 (SPRAY)	
⚠		300	6410RCHX03A	O	O	POWER CORD	CE-503/JL201B H03VH2-F 2X0.75	
		320	3720R-D072F	O		PANEL,VIDEO	DVD DV7510E PRESS LSI,MTK 55MM	
		320	3720R-D074F	O		PANEL,VIDEO	DVD DV7810E PRESS MTK 43MM	
SCREW								
		452	353-051A	O		SCREW	SPECIAL	
		452	353-051A	O		SCREW	SPECIAL	
		463	353-051G	O	O	SCREW,DRAWING	+ 2 D3.0 L8.0 MSWR3/FN TB ROUN	
		465	353-046K	O	O	SCREW	SPECIAL (3X10 B.K)	
		467	353-046N	O	O	SCREW,DRAWING	SPECIAL(3X8 BK.)	

3. Packing Accessory Section



• Packing Accessory Section Part List

MODELS:(A)DV7511E6S(DVD6054) (B)DV7811E6S(DVD6184)

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		801	3835RS0063W	O		INSTRUCTION ASSEMBLY	DVD DV7511E6S HA8PLL	
		801	3835RS0064A		O	INSTRUCTION ASSEMBLY	DVD DV7811E6S HA8PLL	
		802	3890R-H803L	O	O	BOX	DV7511E6M HA8PLL SWW3-A 0.870	
		803	3920R-E066A	O	O	PACKING,CASING	DV7000 0.02 68 EPS 10 1165 238	
		804	292-053B	O	O	BAG	SOFT(MIDI)	NSP
		808	841-0021	O	O	BATTERY,MN	ER03X HI WATT 1.5V .MA/H AAA	
		810	6851RP0003N	O	O	CABLE ASSY,RF	DVD CABLE ASSY,RCA USING AREA	
		811	6611R1G001A	O	O	PLUG ASSY	1WAY YELLOW GLOBAL	
		812	6611R2G001A	O	O	PLUG ASSY	2WAY RED/WHITE GLOBAL	
		900	6711R1P063A	O	O	REMOTE CONTROLLER ASSEMBLY	N6 UNIFIED DV7520E LG W/O DISC	

SECTION 3

ELECTRICAL

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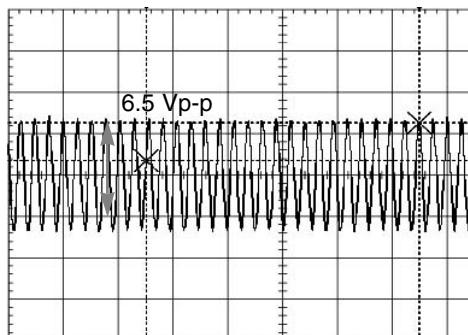
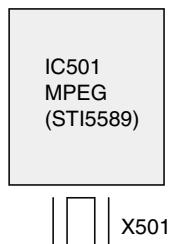
DVD PART

ELECTRICAL TROUBLESHOOTING GUIDE & WAVEFORMS

1. System Clock X501 (27Mhz)

NORMAL

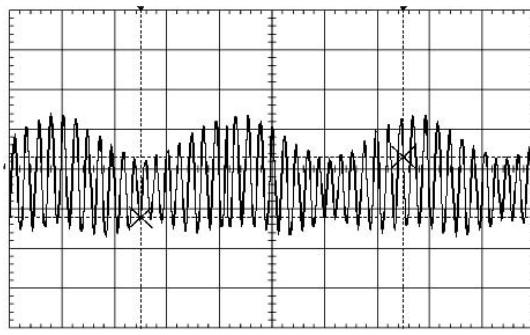
- 1) MPEG IC start oscillating after being installed VCC



X501 : 27 Mhz

ABNORMAL

- 1) Logo Picture doesn't appear
2) Initial step fail
* Initial step : power cord in -> green LED -> red LED -> power key input -> Logo picture

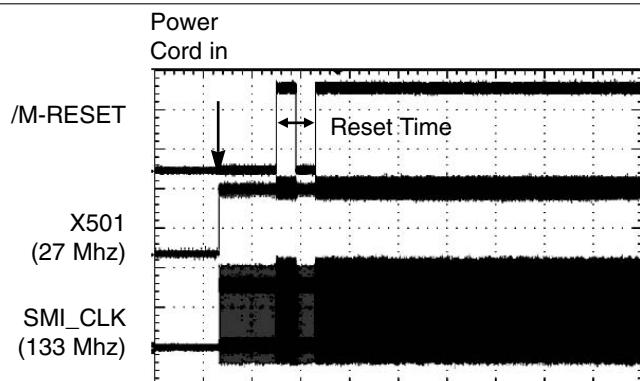
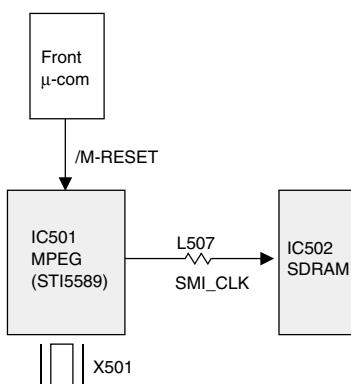


X501 : there is distortion

2. Initializing between MPEG and SDRAM

- 1) MPEG IC start oscillating(27Mhz)after being installed VCC
2) MPEG IC and DSP IC get the /M - RESET signal from front μ-com and they are initialized.
3) And then, MPEG IC generate SMI_CLK and send to SDRAM

- 4) MPEG IC and SDRAM are synchronized by SMI_CLK, they communicate between.
If oscillation(27Mhz) don't appear, check The X-TAL and VCC and replace MPEG IC.
If SMI_CLK don't appear, first cut the SMI_CLK line (remove L507) and recheck.
Don't appear -> check MPEG IC or replace
Appear -> check the SDRAM or replace



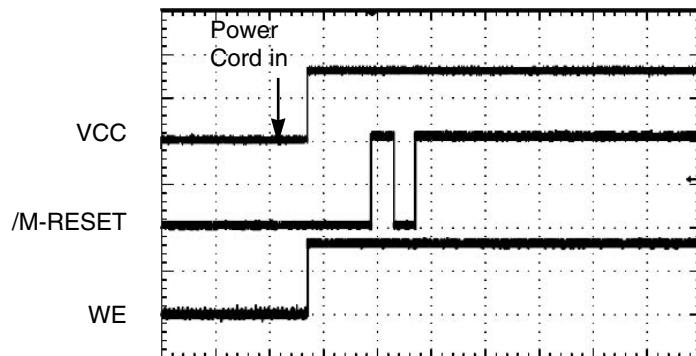
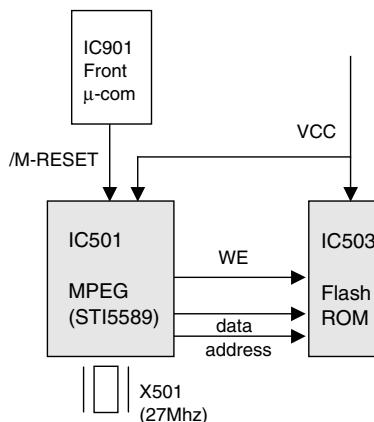
3. Initializing between MPEG and Flash

- 1) MPEG IC start oscillating(27Mhz) after being installed VCC
- 2) MPEG IC is initialized by /M - RESE T
- 3) MPEG IC send the WE(read/write) signal before communicating with FLASH ROM

WE signal should be confirmed by Flash or the next step will not continue.

As that result, the initial step(power cord in -> green LED -> red LED -> standby) will fail.

If WE signal doesn't appear, check the VCC and replace the Flash ROM...



4. Reference Voltage 1

- 1) There is one kinds of reference voltage on DSP
- 2) These are outputed from DSP IC and 2.1V is used as reference of Pick - up

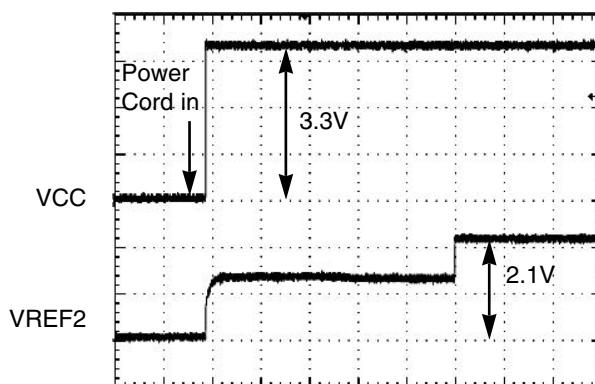
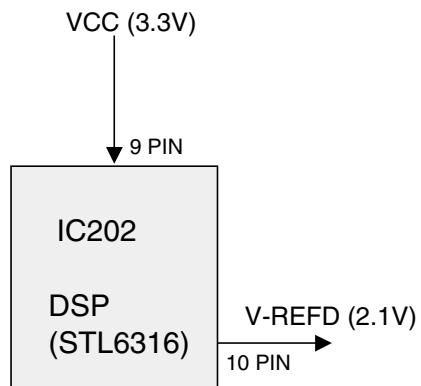
If these reference voltage don't appear, All kinds of servo control will fail.

So, should be checked first of all Check the DSP

IC and replace...

- 3) The reference voltage of DSP is 1.65V for inside of IC L6316, but we can cheek the voltage only by TP.

TP211 is for tracking error and TP212 is for focusing error.



5. Reference Voltage 2

We can see how the reference voltage, mentioned previous page, will work on servo control..

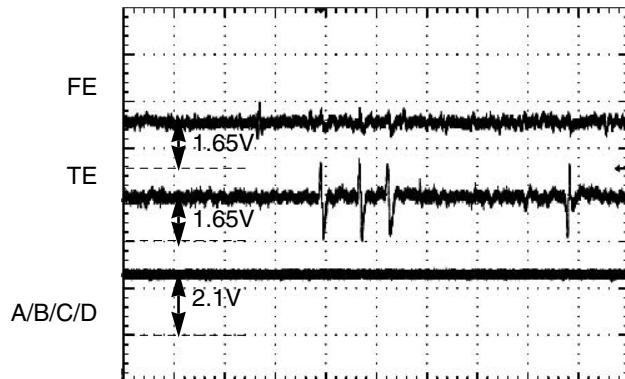
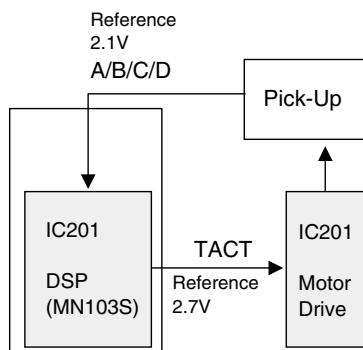
- 1) The DC level of RF signal from P/up is 2.1V
- 2) The DC level of TE and FE is 1.65V
- 3) Correct DC level of these signal make servo work normally.

Even though, the reference voltage come out correctly from DSP,

If A/B/C/D are not biased by 2.1V, and checking the P/up is needed.

If the DC level of TE is not 1.65V, check DSP and replace it...

In case of FE, procedure is same



6. Checking the initial step of M/D Ass'y

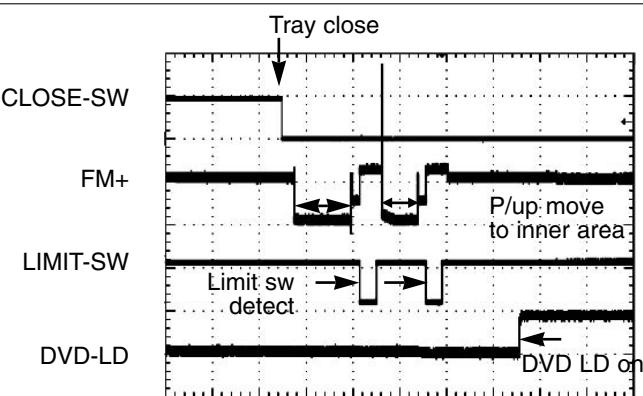
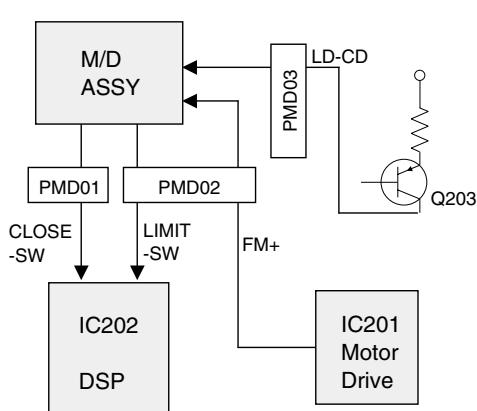
Let's look over the initial action of M/D...

- 1) When the tray is closed, CLOSE-SW should be changed from 5V to 0V and DSP need to detect this change
- 2) Feeding Motor move the P/up to inner area until the LIMIT SW is detected
- 3) After DSP detect the LIMIT SW, DVD laser is turned on and go to the next step

4) if there is a DISC on the tray, the RF will be detected by the DVD laser and go to next step..

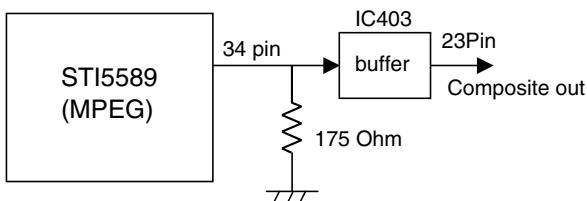
Check the CLOSE-SW and LIMIT-SW

if anything of the both is not detected, the next step won't go on. This means that even though there is a DISC on the tray the DISC will not rotate.



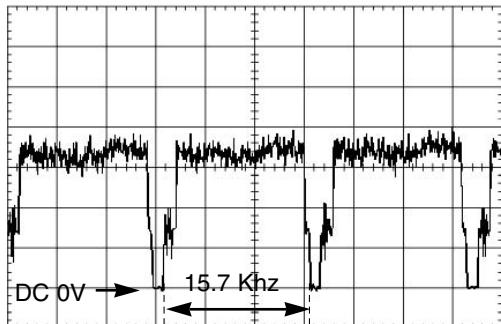
7. Checking the Video Signal

Check the followings

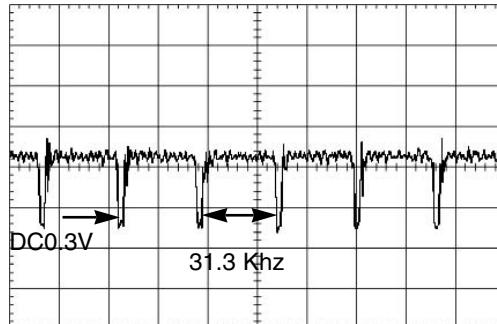


- 1) Check the video output mode. if the output mode is progressive - on, there is no composite signal.
the output mode should be changed to progressive - off
- 2) Check the buffer IC and MPEG, and then replace.

Composite signal is normal --> Screen display OK



Composite signal is abnormal -->there is no screen on TV



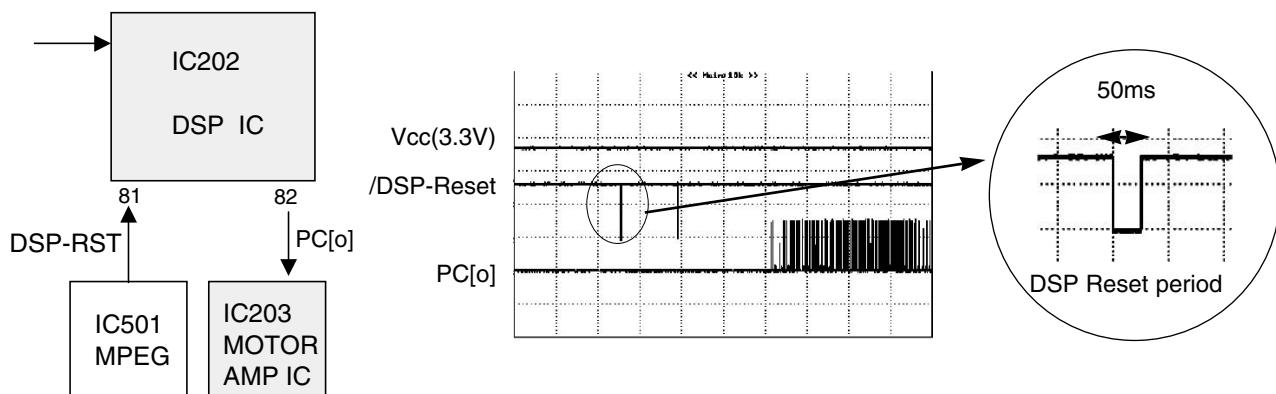
8. Checking the first step of servo (1)

Let's look over the initial step of DSP

- 1) First. DSP IC receive the DSP - Reset from MPEG
- 2) This reset signal get DSP initialized and DSP is ready to do first step for servo
- 3) PC[o] from DSP is the test signal for checking the PLL- loop

4) after checking the PLL-loop, the second step is followed. the second step will be explained on next page.....

if PC[o] doesn't appear, check DSP and replace.



9. Checking the second step of servo (2)

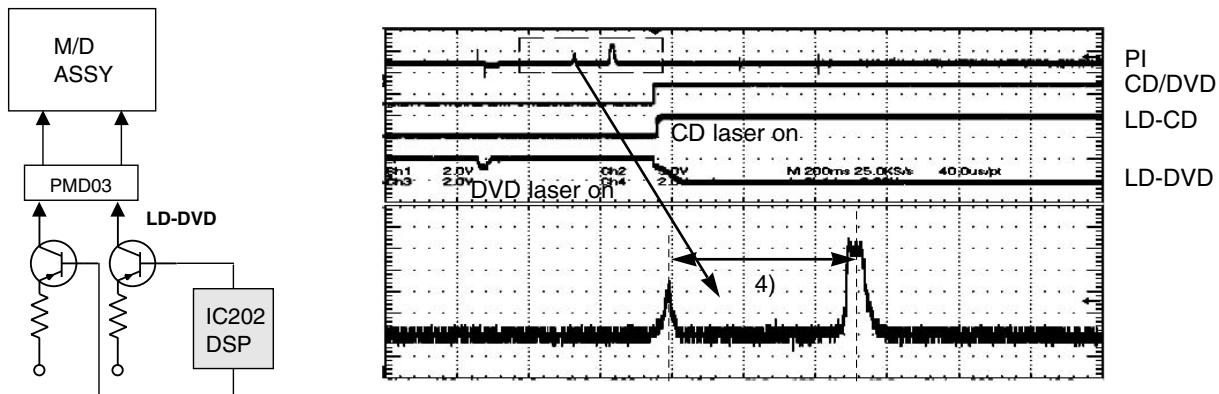
Let's look over the initial step of servo

- 1) when the tray is closed, first of all, it should be checked whether there is disc or not on tray
- 2) DVD laser is turn on and the lense is moved. if there is a disc on tray, RF signal will appear
- 3) next, it should be confirmed which disc is that. CD or DVD.

4) the following step will be done continuously
DVD -Laser on -> move up/down in according to disc type, there will be RF signal...

- 5) after confirming disc, CD or DVD laser turn on and focus servo is executed...

the below picture is related signals when CD disc is inserted



10. Checking the output of Audio signal

IC401 is called as Audio DAC, DAC means Digital-Analog Convertor.

This IC receives digital signal from MPEG and convert digital signal to analog signal, so we can hear sound...

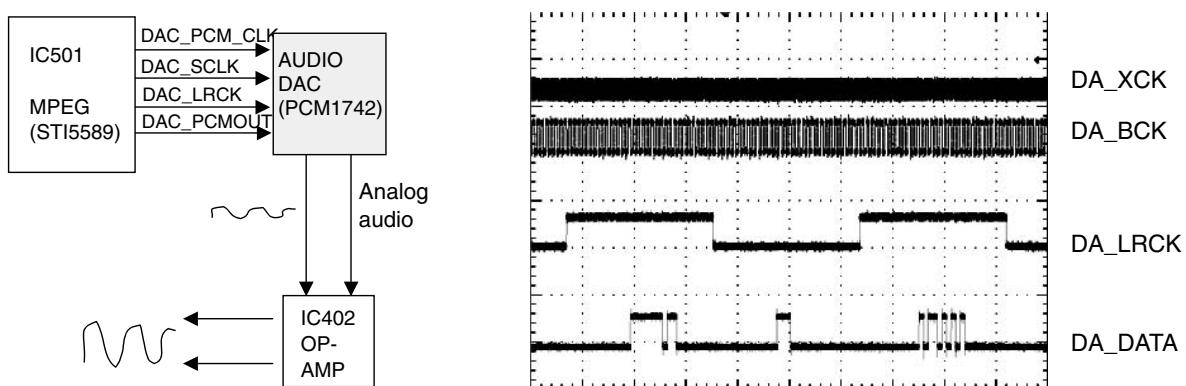
IC401 is connected with OP - AMP and an analog Audio signal is amplified at the OP - A MP. because the analog audio signal from DAC is a very low level.

DAC_PCM_CLK : this is the system clock for IC401

DAC_SCLK : this is standard clock to synchronize the audio serial data

DAC_LRCK : R-chanel and L-chanel are selected among the audio serial data by this

DAC_PCMOUT3 : serial audio data



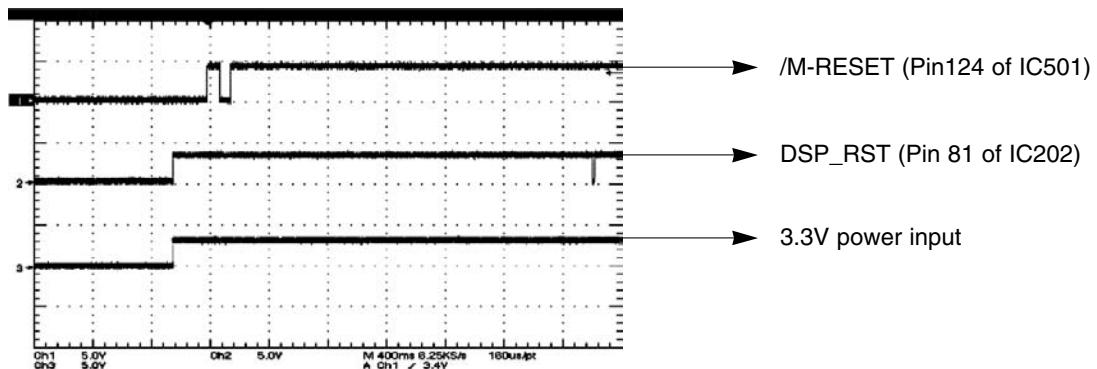
11. Checking the reset port

Pin 81 of IC202, pin 124, 186 of IC501 and pin 12 of IC503 are related to RESET.

We can know whether IC is initialized or not through those ports.

The waveform shows the status when the reset signal works normally.

If the /M-RESET is abnormal, then check the front u-com(IC901) and replace it

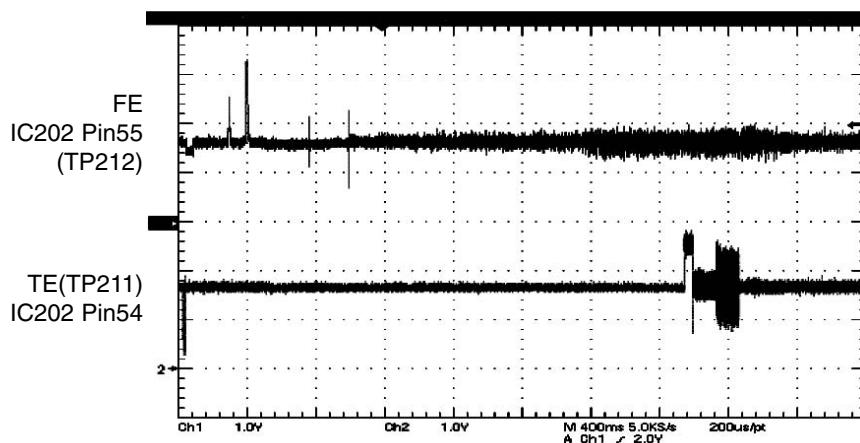


The waveform when power on

12. Checking the focus & tracking servo

Waveforms as below are regarding focusing and tracking servo normally.

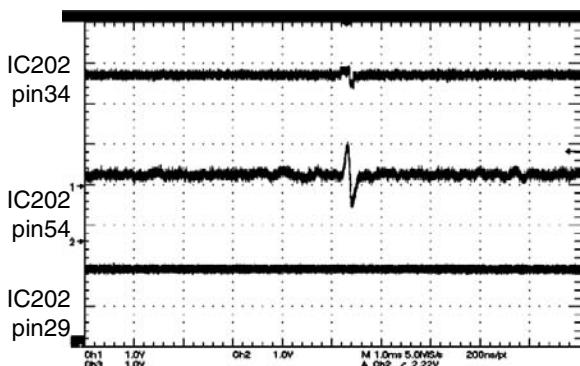
FE and TE signal are generated in IC202 and output at pin55, pin54 of IC202,(TP212, TP211) respectively.



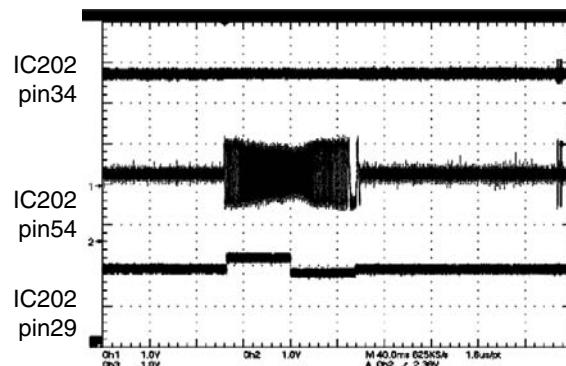
13. Checking the track jump

TE and TACT signals are output respectively from pin 54 and pin 34 of IC 202 during a normal play.

SLED signal is output pin 29 of IC 202 and flow into pin 15 and pin 18 of IC 201 to operate a sled motor when to skip chapters or to scan.



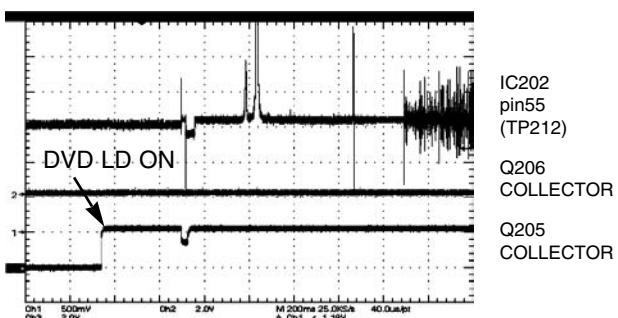
The waveform during a normal play



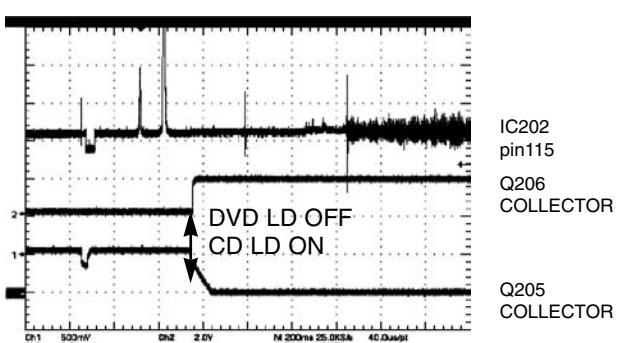
The waveform when to skip or scan

14. The status of CD_LD and DVD_LD in the PLAY MODE

The waveforms as below indicate "COLLECTOR" outputs of Q205 and Q206, respectively when to play DVD and CD



This is the waveform of FE and collector outputs of Q205 and Q206 when to play DVD

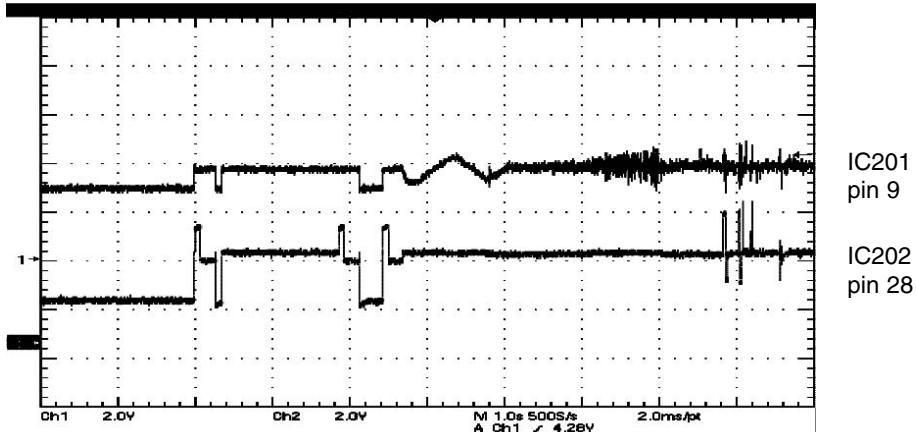


This is the waveform of FE and collector outputs of Q205 and Q206 when to play CD

15. The status Focus and spindle motor

The waveform is to display F+ signal from pin 9 IC201 and SPM+ from pin 10 IC201.

F+ is used to control a focus actuator of pick - up and SPM+ is used to operate a spindle motor. So, we can know the position of the acuator and the speed and rotating direction of the spindle motor through those signals.

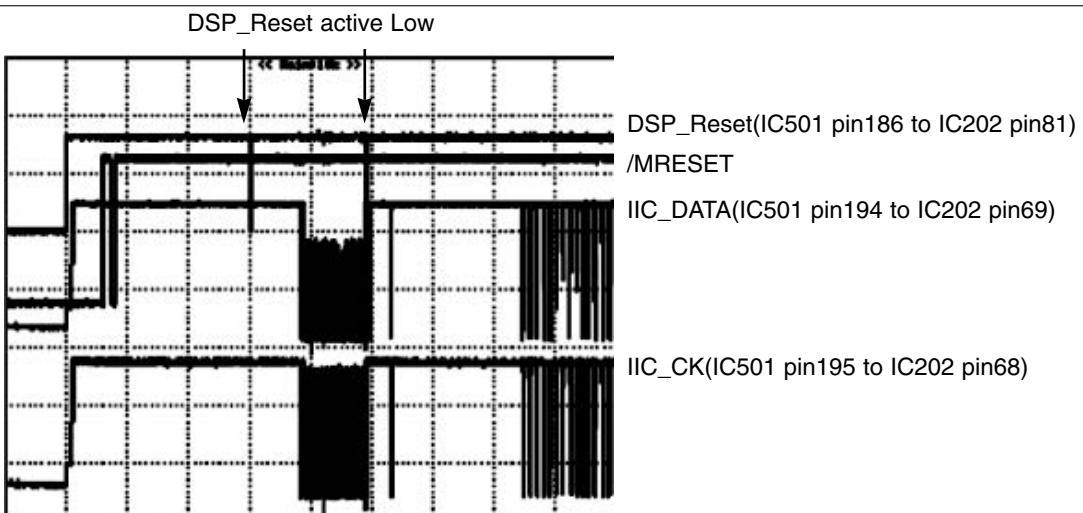


16. DATA STREAM

This waveforms are showing “The Downloading serve program”.

The most important thing of the download process is the timing.

The servo program must be downloaded before the second DSP reset.

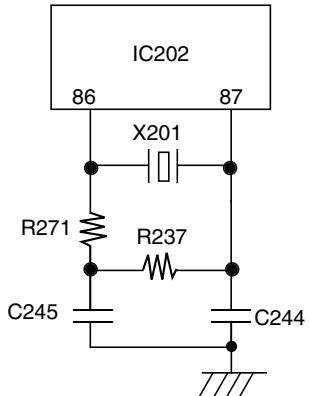


17. Input Clock to IC202

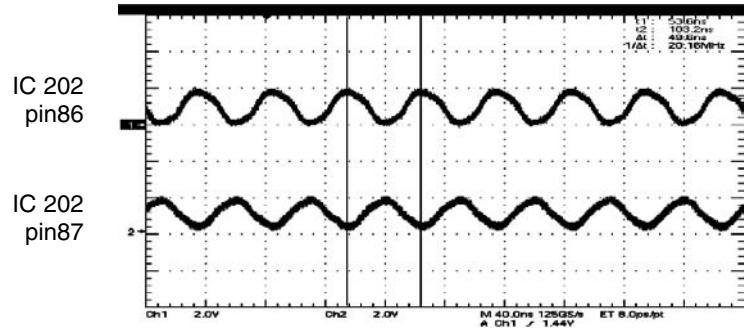
The waveform and the block diagram as below show a clock input and output between IC202 and X201.

Clocks generated in X201 is output and input into pin86 and pin87 of IC202.

The clock frequency is 20MHz.



A diagram for a colck input of IC201



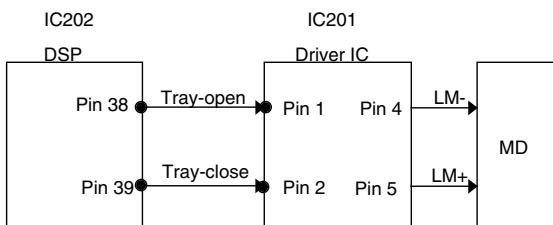
The waveform of clock inputs to IC201

18. Tray Open and Close

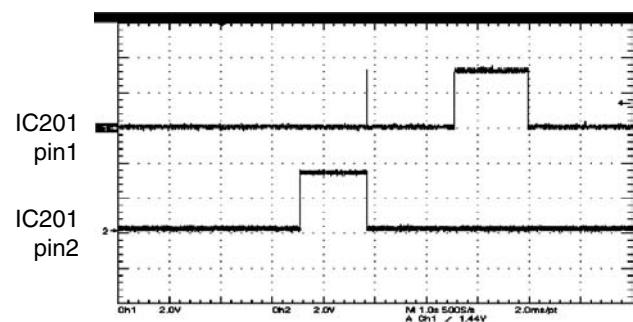
DSP send tray - open or tray - close signal to IC201(motor drive IC)

IC201 generates LM+ and LM - and transmits them to operate a loading motor.

if there is no LM+ or LM-, check the Tray-open and Tray-close. And replace the Motor Drive IC .



A signal flow for tray open and close



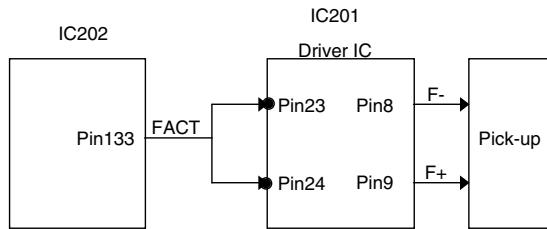
The waveform input to IC201 for tray open and close

19. Focus Drive signal(FACT)

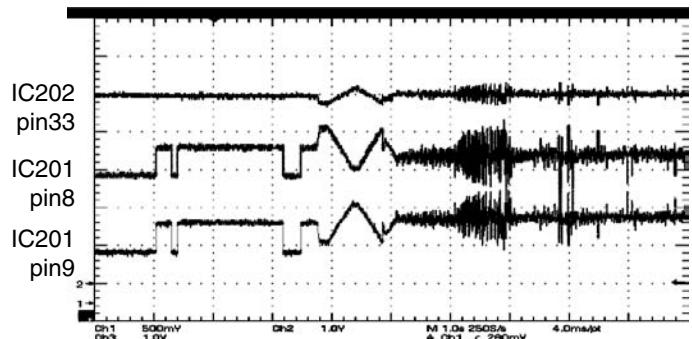
FACT is made from focus error signal at DSP(IC202) and is input to IC201.

And then FACT is converted into F - and F+ in IC201.

Finally, they are sent to pick - up to control a focus actuator.



A signal flow for FACT



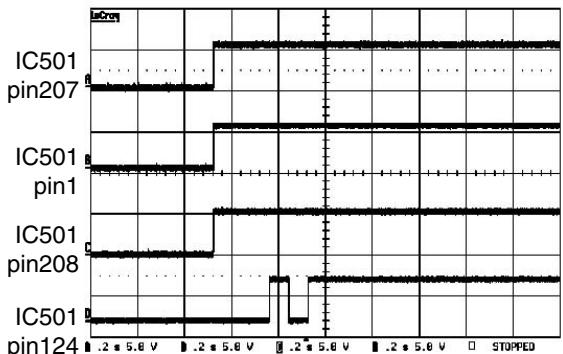
The waveform of FACT, F- and F+

20. Signals for Front micom

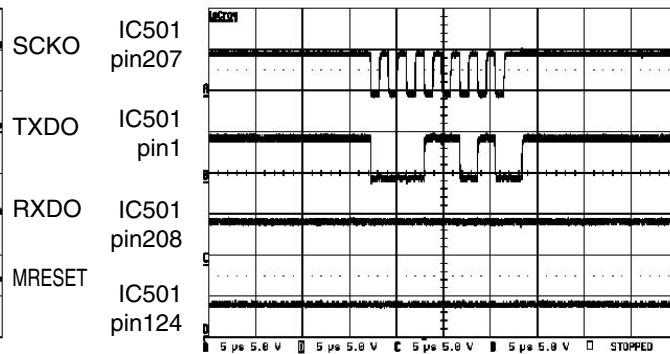
MRESET signal is output from front μ-COM when power is on, so IC501 is initialized.

And those(front μ-COM and IC501) communicate each other through SCKO, TXDO, RXDO signals

Waveforms display each signal when power on and after power on



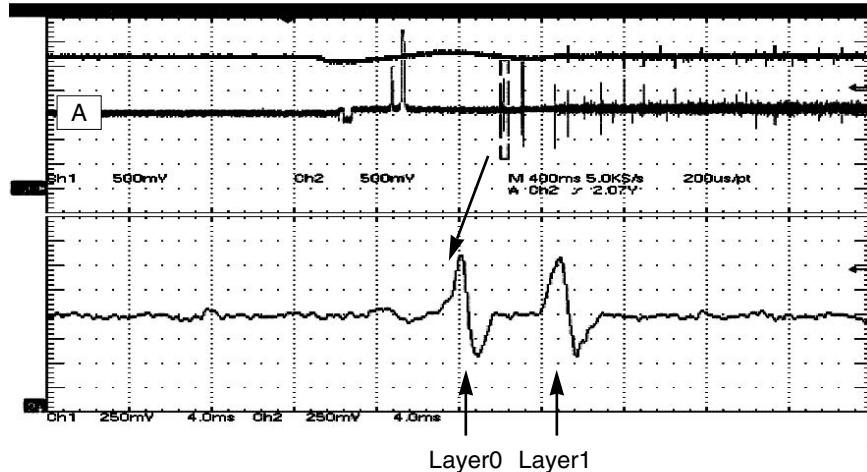
The waveform when power is on



The waveform after power on

21. FACT and FE for DVD9 (Dual disc)

FE signal becomes like the waveform 2, in case of DVD dual layer disc since the laser beam is reflected on both layer 0 and layer 1.



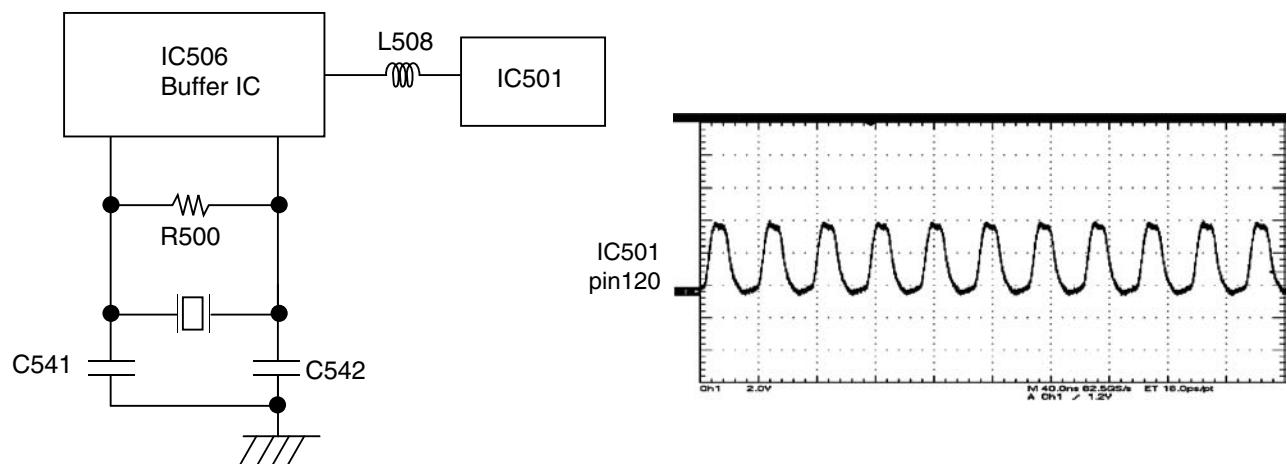
22. System clock of MPEG IC

The waveform and the block diagram as below show a clock input and output between IC501 and X501.

Clocks generated in X501 is output and input into pin120 of IC501.

The clock frequency is 27MHz.

If this clock is abnormal or does not appear, replace the X-tal or MPEG IC

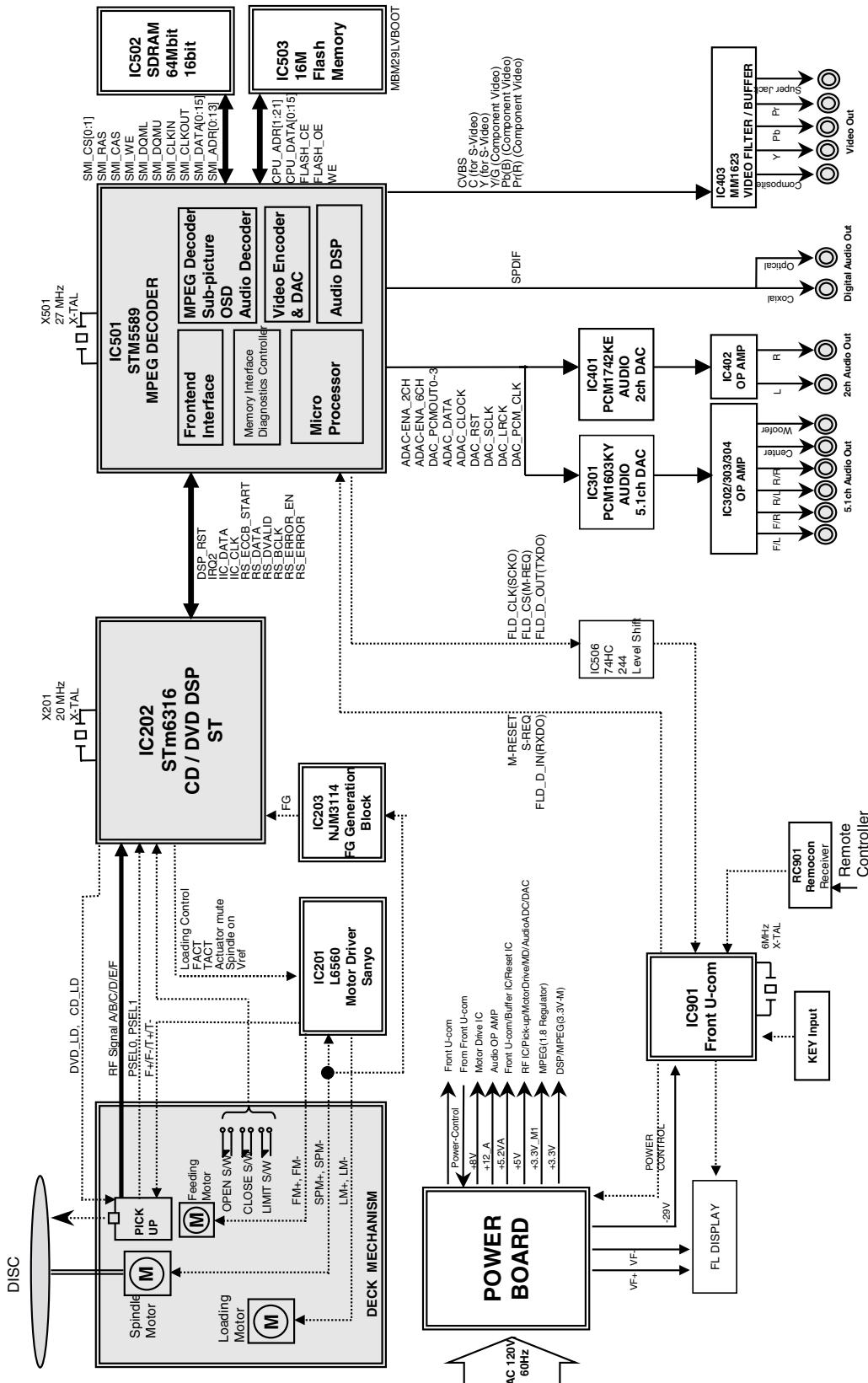


A diagram for a colck input of IC501

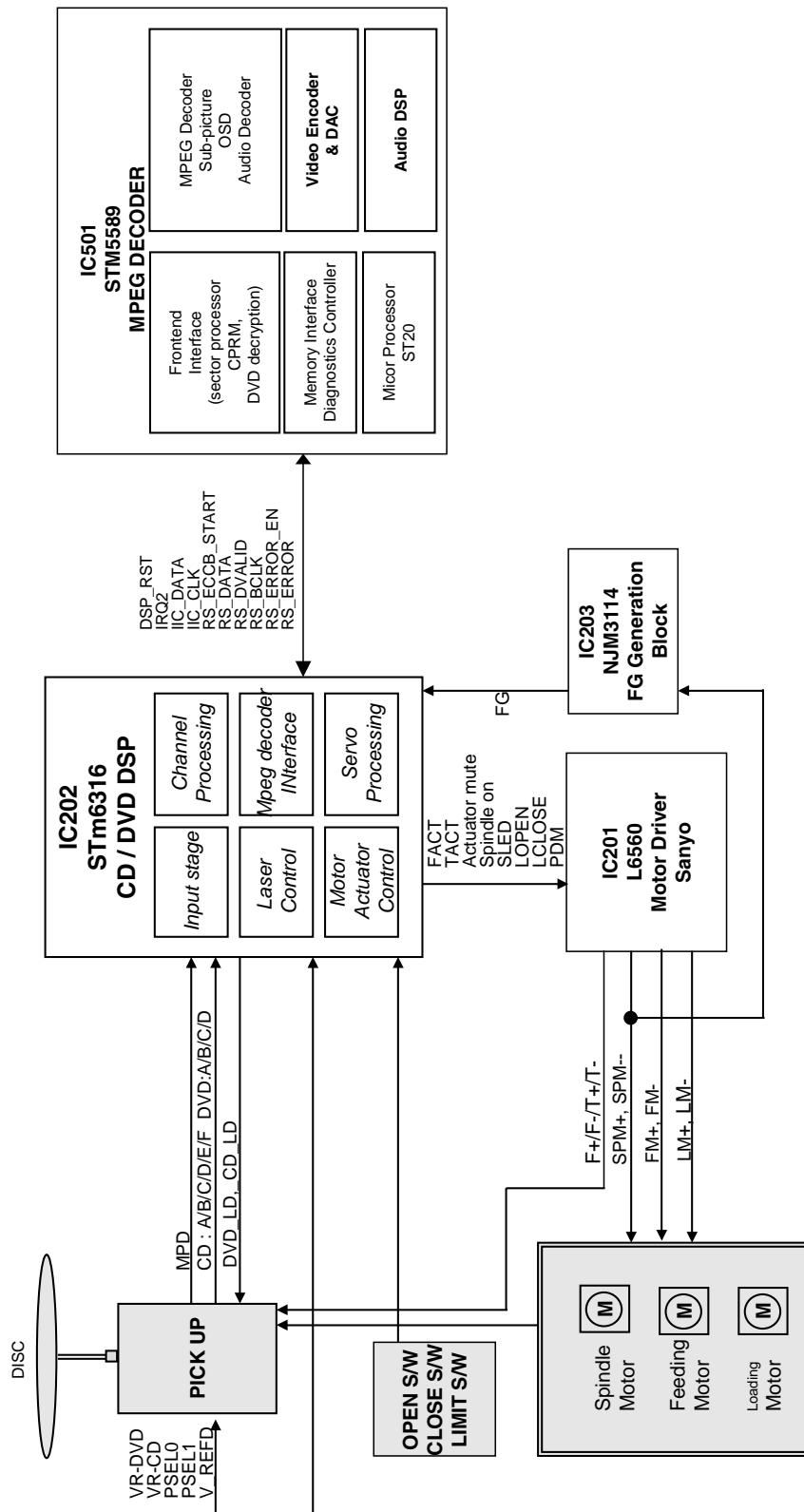
MPEG CLOCK

BLOCK DIAGRAMS

1. DVD OVERALL BLOCK DIAGRAM

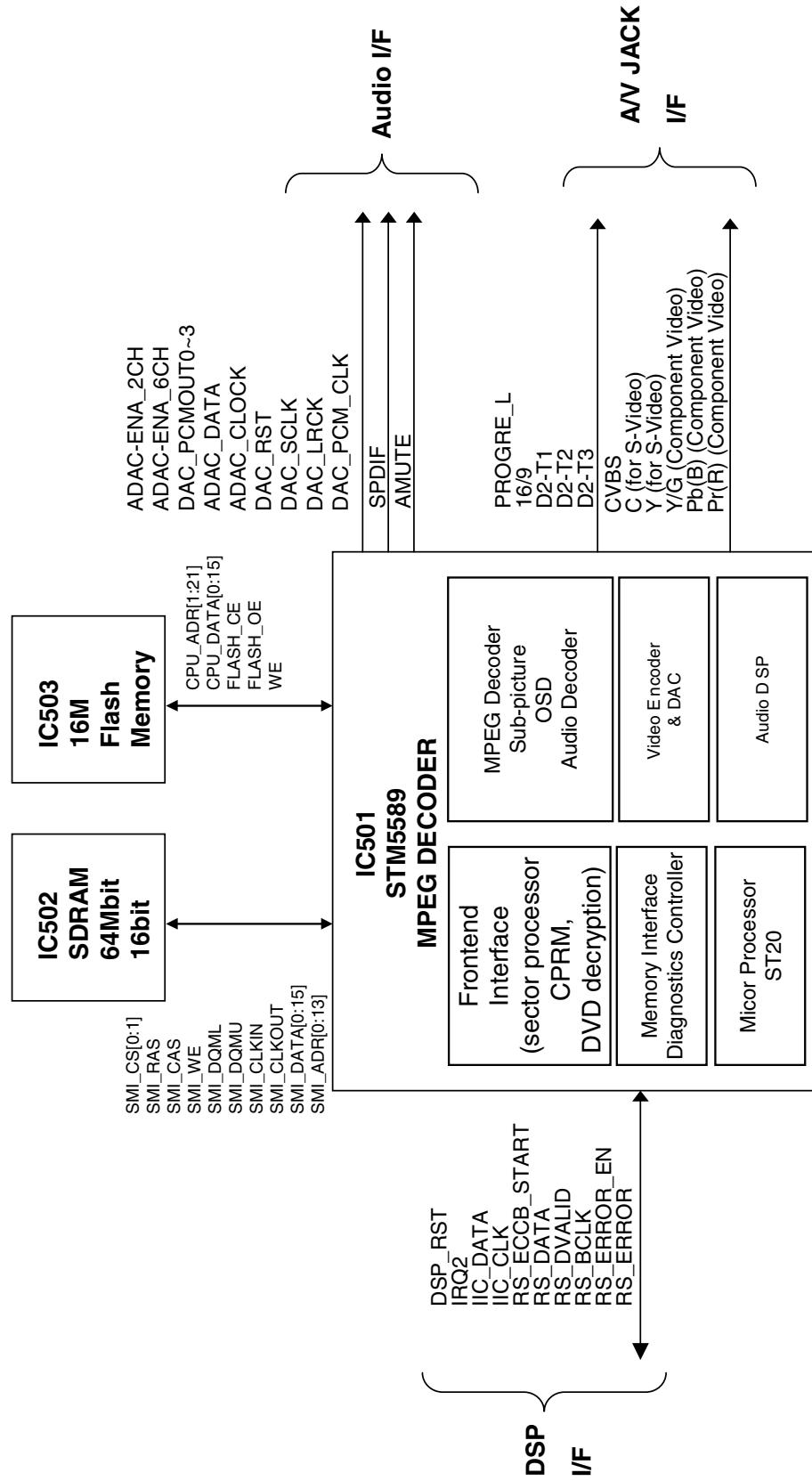


2. SERVO BLOCK DIAGRAM



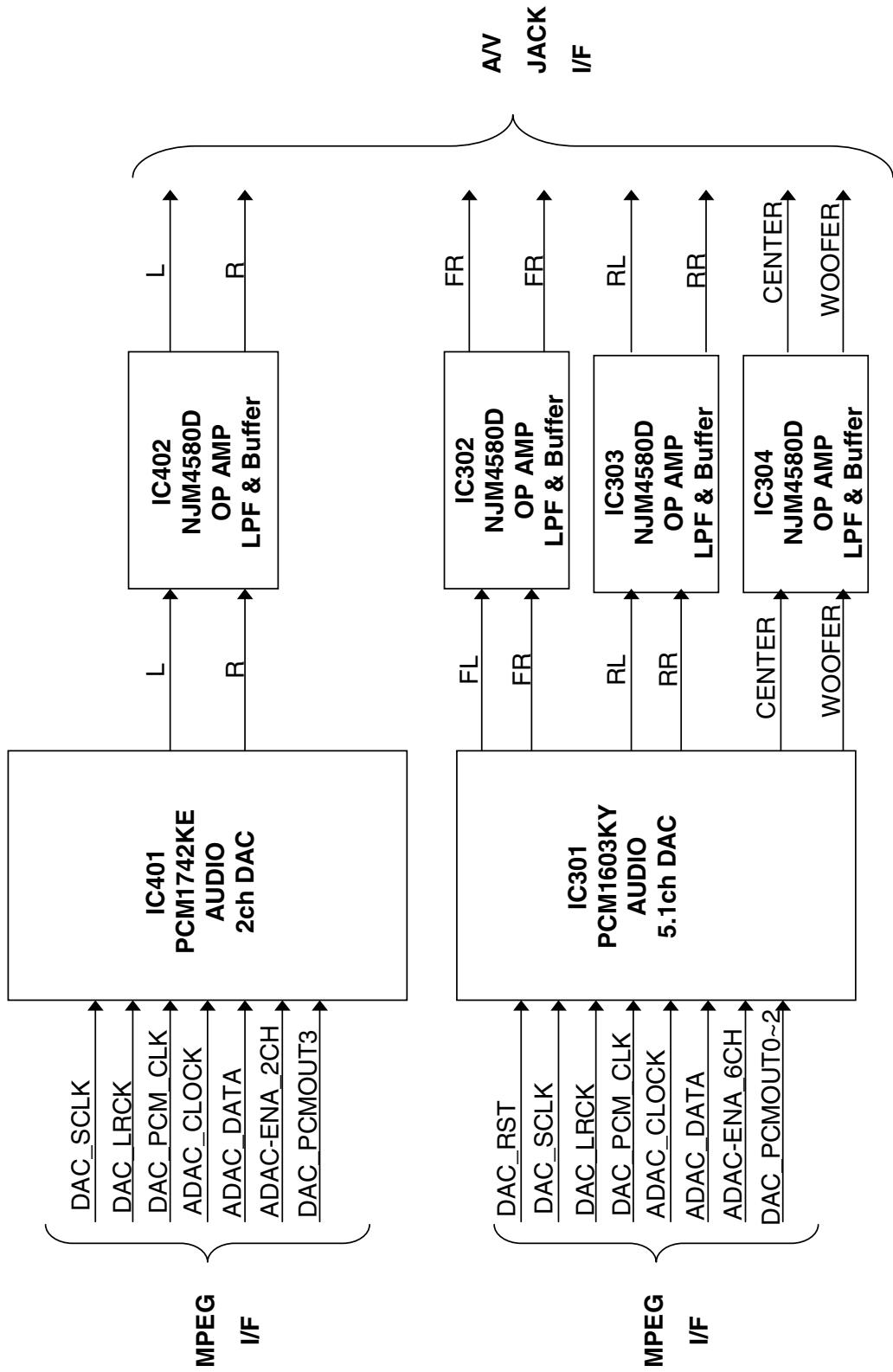
DV7732NS
STM MODEL

3. MPEG BLOCK DIAGRAM



DV7732NS
STM MODEL

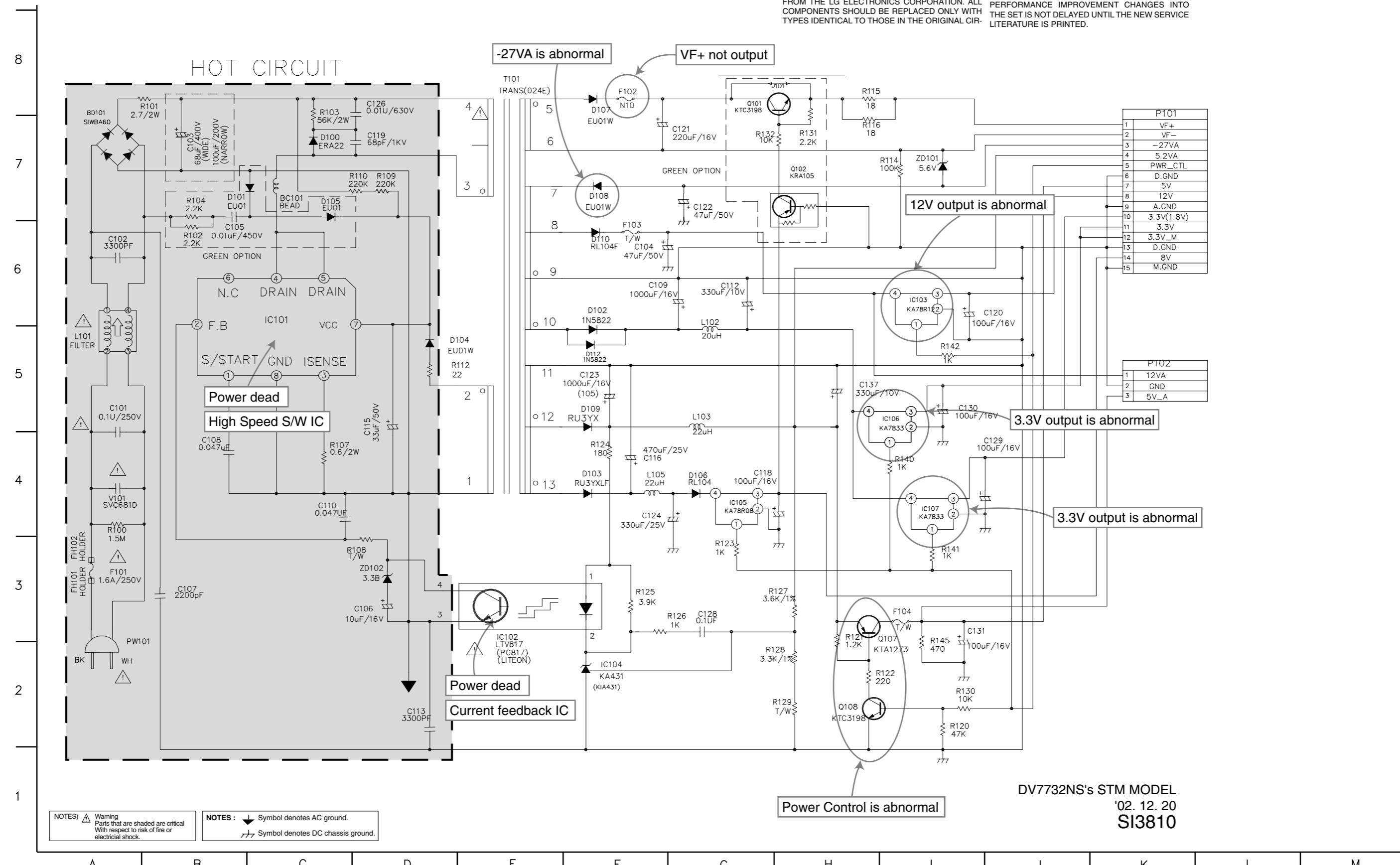
4. AUDIO Block Diagram



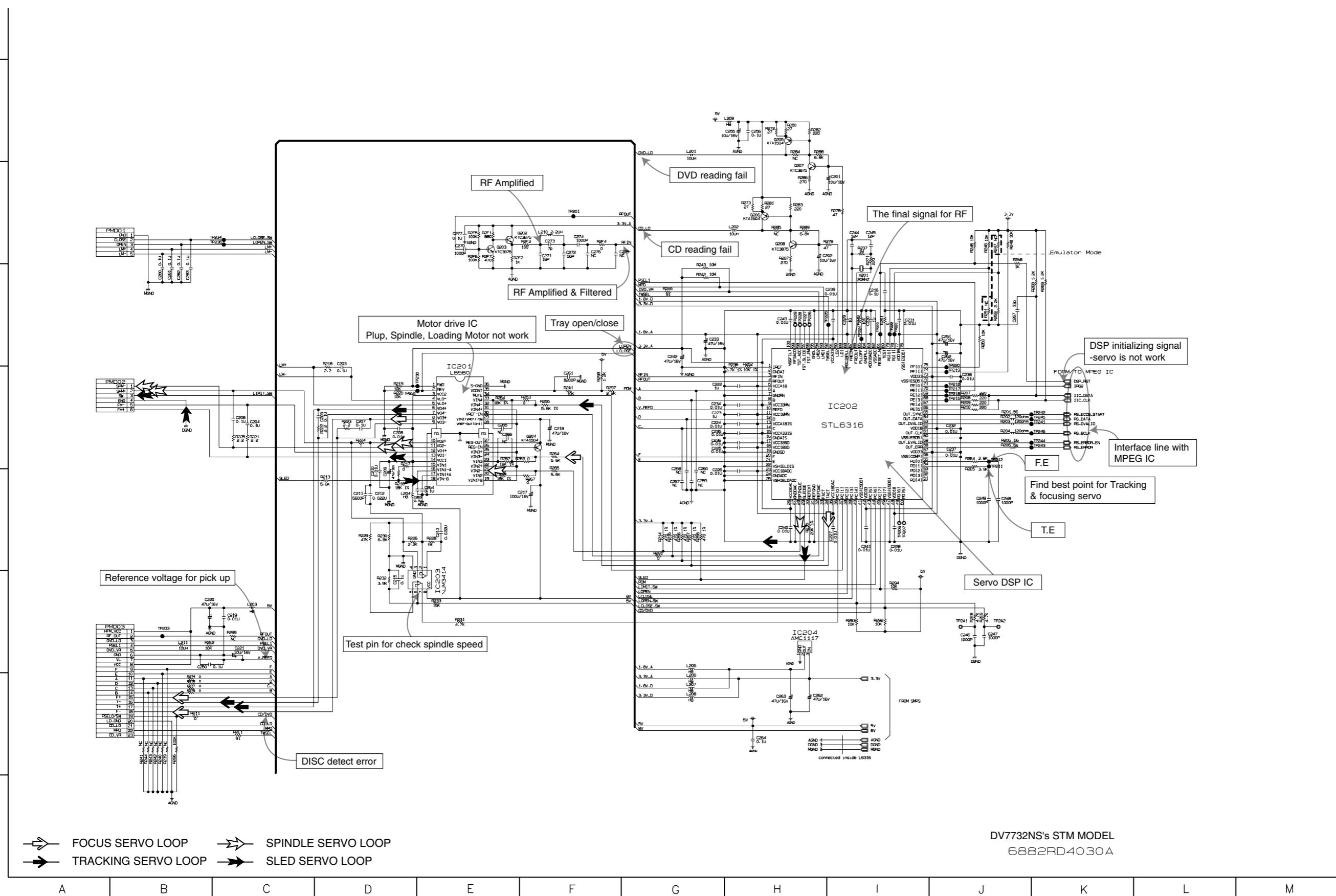
DV7732NS
STM MODEL

CIRCUIT DIAGRAM

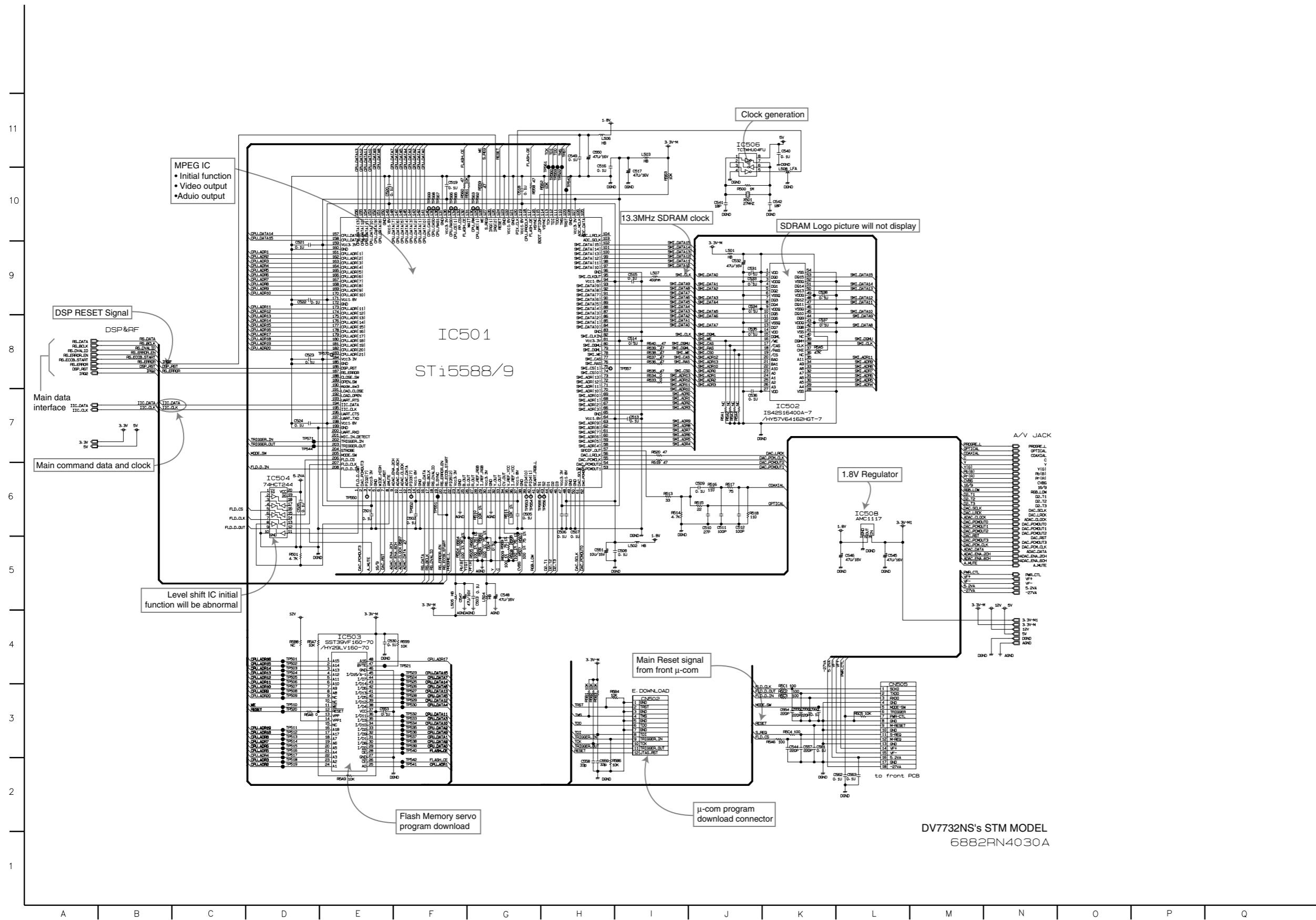
1. POWER(SMPS) CIRCUIT DIAGRAM



2. RF & SERVO CIRCUIT DIAGRAM



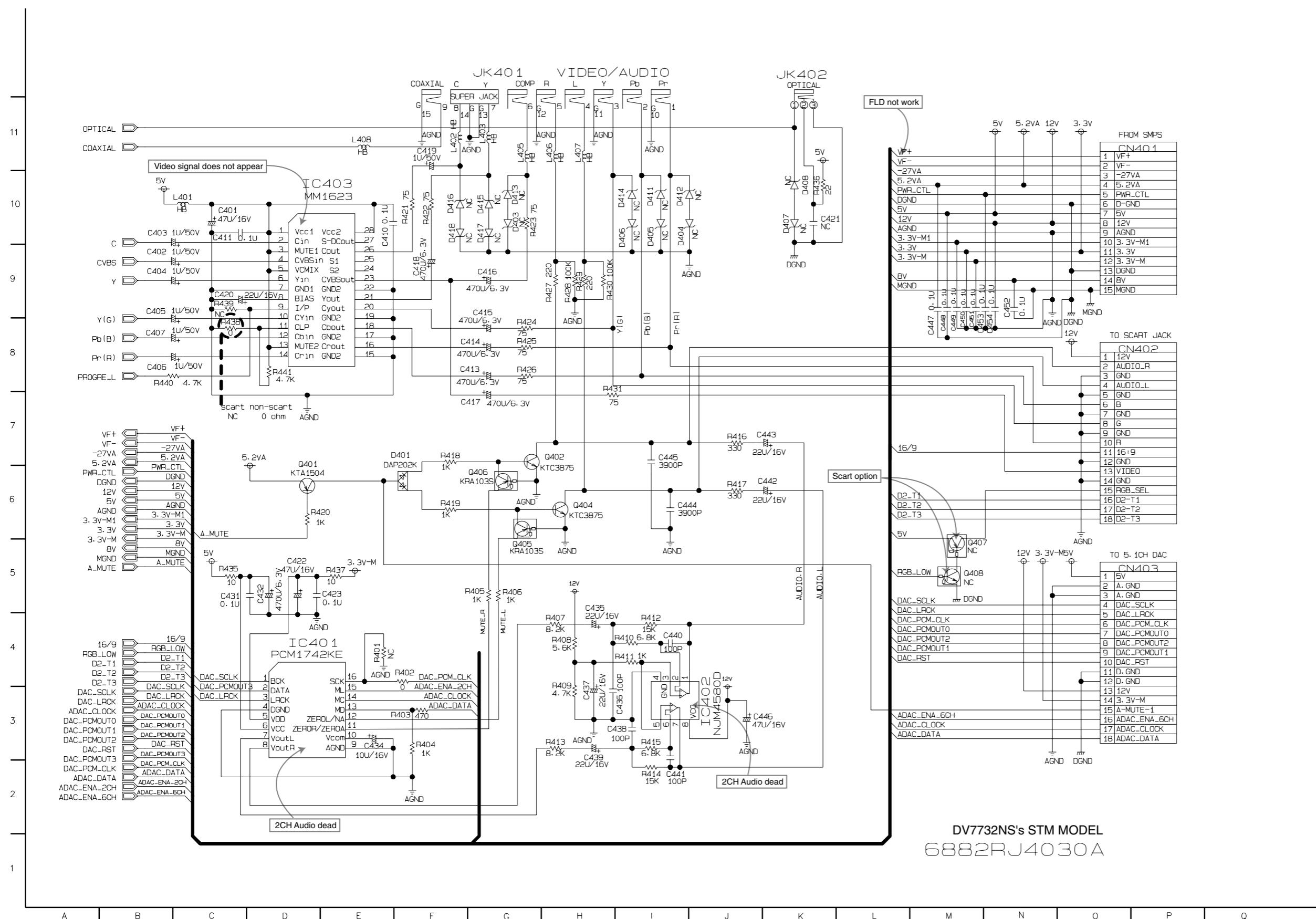
3. SYSTEM CIRCUIT DIAGRAM



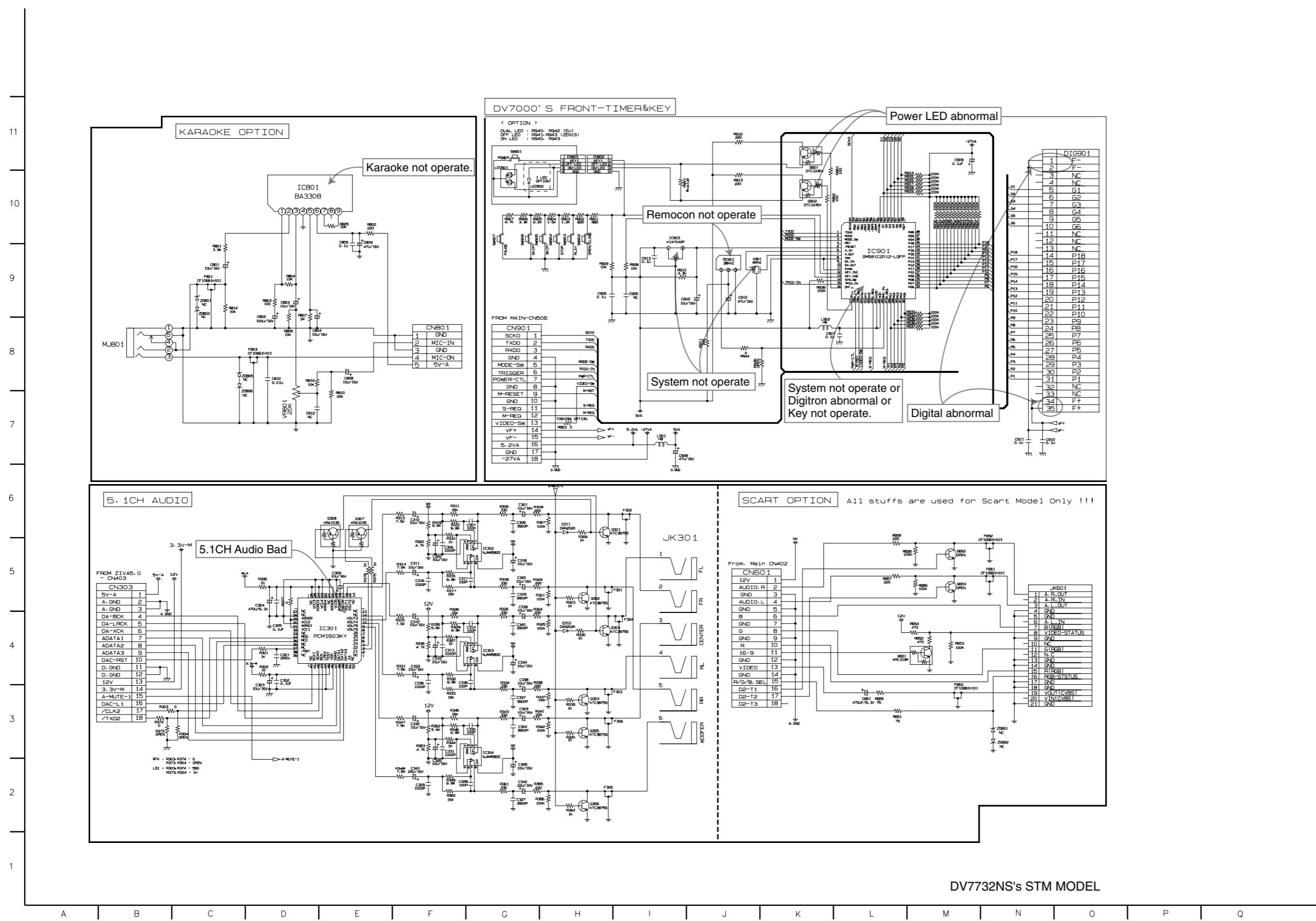
3-2-

3-22

4. AUDIO & JACK CIRCUIT DIAGRAM



5. TIMER/5.1CH CIRCUIT DIAGRAM

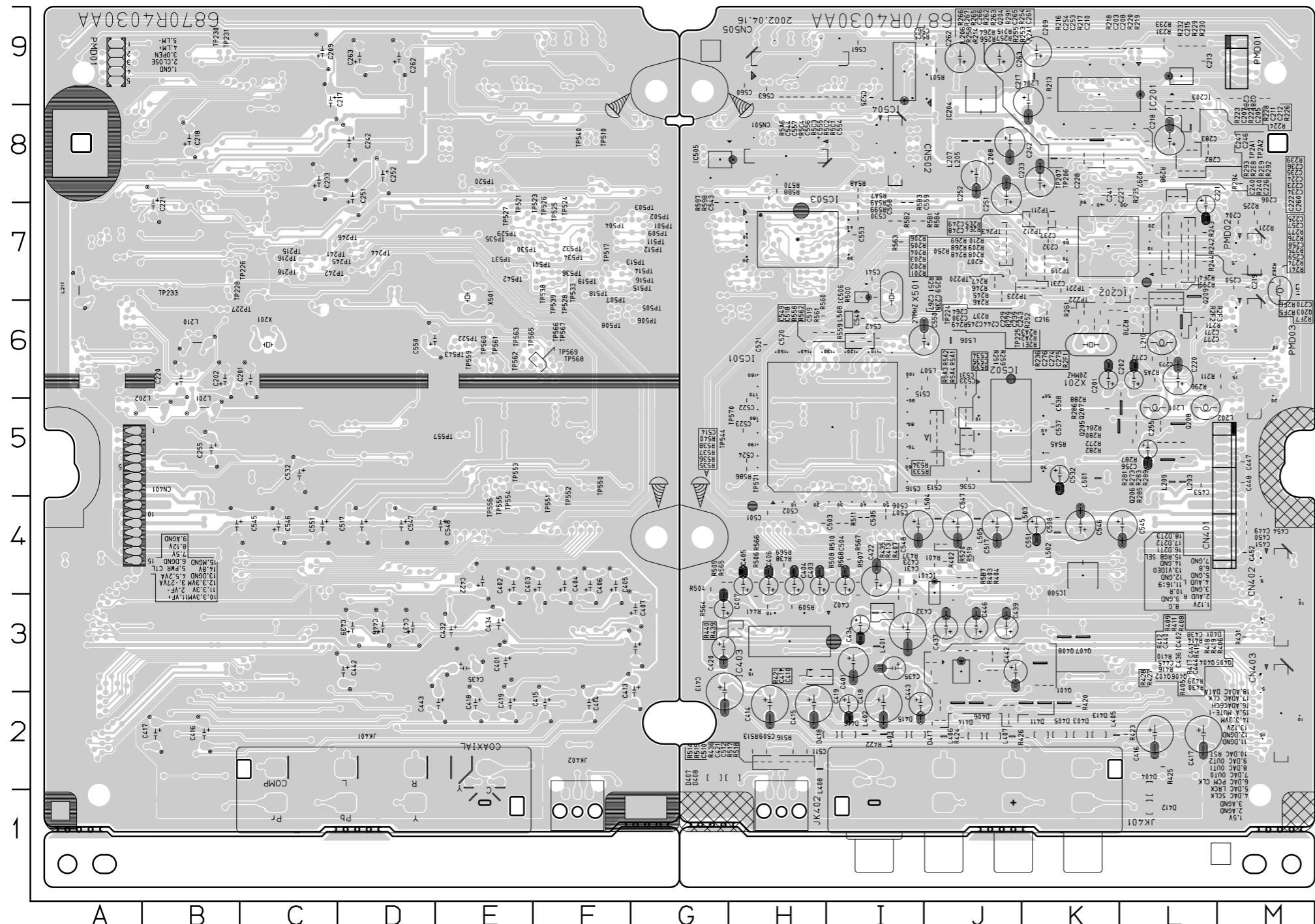


• CIRCUIT VOLTAGE CHART

IC501 (ST15589)			IC501 (ST15589)			IC501 (ST15589)		
PIN	EE	PLAY	PIN	EE	PLAY	PIN	EE	PLAY
1	1.75	2	81	3.63	0.69	161	3.68	3.68
2	0	1.43	82	3.63	2.16	162	0	3.68
3	0	0	83	2.17	0	163	0	3.68
4	0	3.73	84	0.14	0.63	164	0	3.68
5	0	0	85	0.14	0.64	165	0	3.67
6	0	0	86	0	0.62	166	0	0.02
7	3.63	0	87	0.15	0.63	167	0	0
8	0	3.73	88	0.15	0.64	168	0	0.02
9	3.63	3.73	89	0.15	0.65	169	0	3.67
10	3.63	0	90	0.16	0.65	170	0	0.02
11	0.02	3.73	91	0.16	0.66	171	1.98	1.91
12	0	0	92	0.16	0.64	172	0	0
13	3.63	0	93	316	0.65	173	0	3.68
14	1.89	1.94	94	1.9	1.94	174	0	0
15	0	0	95	1.9	2.15	175	0	3.68
16	0	0	96	0	0	176	0	0
17	1.76	0	97	0	0.66	177	0	3.68
18	0	0	98	0.15	0.64	178	0.02	3.68
19	0	0	99	0.16	0.64	179	0	3.68
20	0	0	100	0	0.63	180	0	3.68
21	0	0	101	0.16	0.64	181	0	3.68
22	0.06	0.06	102	0.15	0.65	182	0	3.68
23	3.63	0.03	103	0.15	2.56	183	0	3.68
24	0	0	104	2.45	2.56	184	3.69	3.68
25	0	0.84	105	2.63	3.14	185	0	0
26	0.65	0.73	106	2.01	2	186	3.65	3.68
27	0.75	0.78	107	3.65	3.68	187	0.38	0.02
28	0.02	0	108	0	0	188	0	2.84
29	0.02	1.46	109	0	0	189	2.56	2.84
30	3.63	3.74	110	3.65	3.69	190	2.5	2.85
31	0	0	111	0.24	1.18	191	2.51	2.84
32	0.65	0	112	3.65	0	192	0.29	2.91
33	0.78	0.82	113	3.65	3.69	193	0.31	2.84
34	0.66	0.74	114	0.03	0.03	194	2.55	0
35	0.03	0.03	115	0.03	0.03	195	2.55	5.23
36	1.42	1.46	116	0.03	0.03	196	0.28	2.89
37	1.9	1.95	117	3.66	3.69	197	2.5	2.97
38	0	0	118	2.13	2.16	198	1.99	1.92
39	2.61	0.23	119	1.99	1.92	199	0	0
40	2.62	0.24	120	1.98	2.02	200	0.02	2.89
41	3.63	0.21	121	0	0	201	0.28	2.85
42	0	0.24	122	1.99	0	202	0	0
43	2.65	0.24	123	0.02	2	203	0	0
44	0.02	0	124	4.67	4.67	204	0.25	2.84
45	0	0	125	3.62	3.68	205	3.68	3.68
46	0	0	126	3.62	3.82	206	2.5	3.55
47	3.65	3.75	127	0	3.83	207	0.22	3.68
48	1.9	1.95	128	3.67	3.02	208	0	5.65
49	0	0	129	3.67	3.69	209		
50	1.82	0	130	3.67	3.69	210		
51	0	1.87	131	0	3.69	211		
52	0	1.82	132	3.67	3.69	212		
53	0	0	133	1.74	3.69	213		
54	0	0	134	3.67	3.69	214		
55	1.5	1.5	135	3.67	3.69	215		
56	1.8	1.5	136	3.67	3.69	216		
57	1.78	1.4	137	0	0	217		
58	1.78	1.8	138	3.67	3.69	218		
59	0.99	1.15	139	2.35	3.69	219		
60	0.96	0	140	3.66	3.69	220		
61	0.56	0.65	141	0.24	1.65	221		
62	0.08	0.65	142	0.88	1.65	222		
63	0.03	0.64	143	0.88	1.65	223		
64	0.03	1.93	144	0.88	1.65	224		
65	1.9	0.07	145	0.87	1.65	225		
66	0	0.5	146	0.88	0	226		
67	0.66	0.44	147	0.85	1.66	227		
68	0.18	0.62	148	0.87	1.63	228		
69	0.17	0.59	149	1.91	1.92	229		
70	0.17	0.62	150	0	0	230		
71	0	0.63	151	0.82	1.65	231		
72	0.17	0.63	152	0.85	1.65	232		
73	0.15	0.61	153	0.86	1.66	233		
74	0.16	0	154	0.86	1.67	234		
75	0	0	155	0.83	1.64	235		
76	0.15	0.62	156	0	1.61	236		
77	0	0	157	0.29	0.75	237		
78	0	0	158	0.26	3.68	238		
79	0	0.62	159	3.68	3.68	239		
80	0.15	0.69	160	0	0	240		

PRINTED CIRCUIT DIAGRAMS

1. MAIN P.C.BOARD



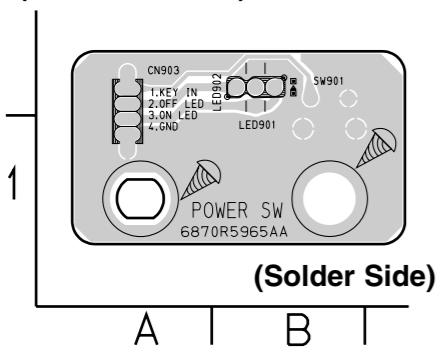
3-31

3-32

LOCATION GUIDE	
TP215	C7
TP216	C7
TP217	E7
TP218	C7
TP219	E7
TP220	E7
TP221	D7
TP222	B7
TP223	B7
TP224	D7
TP225	B7
TP226	G7
TP227	B6
TP228	B7
TP229	B7
TP230	B7
TP231	B9
TP232	E7
TP233	B7
TP234	A9
TP235	A9
TP236	E7
TP237	E7
TP238	E7
TP239	E7
TP240	E7
TP241	D7
TP242	D7
TP243	D7
TP244	D7
TP245	D7
TP246	G7
TP247	E7
TP248	E7
TP249	E7
TP250	G7
TP251	G7
TP252	G7
TP253	F7
TP254	F8
TP255	F8
TP256	F8
TP257	F8
TP258	F7
TP259	F7
TP260	F7
TP261	F7
TP262	F7
TP263	F7
TP264	F7
TP265	F7
TP266	F7
TP267	F7
TP268	F7
TP269	F7
TP270	F7
TP271	F7
TP272	F7
TP273	F7
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TP225	F8
TP226	F8
TP227	F8
TP228	F8
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TP231	F8
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TP233	F8
TP234	F8
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TP294	F8
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TP202	F8
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TP206	F8
TP207	F8
TP208	F8
TP209	F8
TP210	F8
TP211	F8
TP212	F8
TP213	F8
TP214	F8
TP215	F8
TP216	F8
TP217	F8
TP218	F8
TP219	F8
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TP223	F8
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TP225	F8
TP226	F8
TP227	F8
TP228	F8
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TP236	F8
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TP277	F8
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TP284	F8</

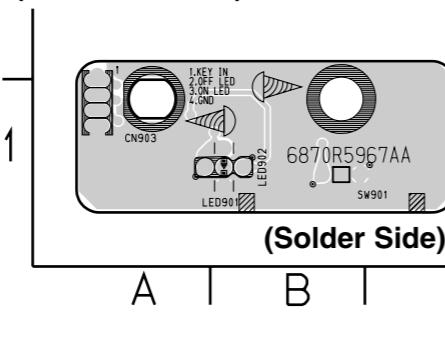
2. KEY P.C.BOARD

(5 TOOL ONLY)



(Solder Side)

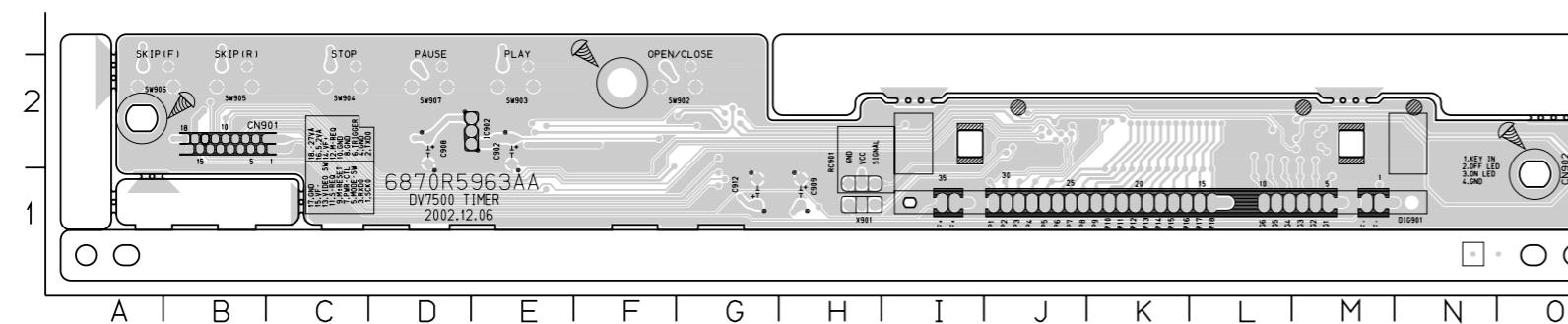
(8 TOOL ONLY)



(Solder Side)

3. TIMER P.C.BOARD

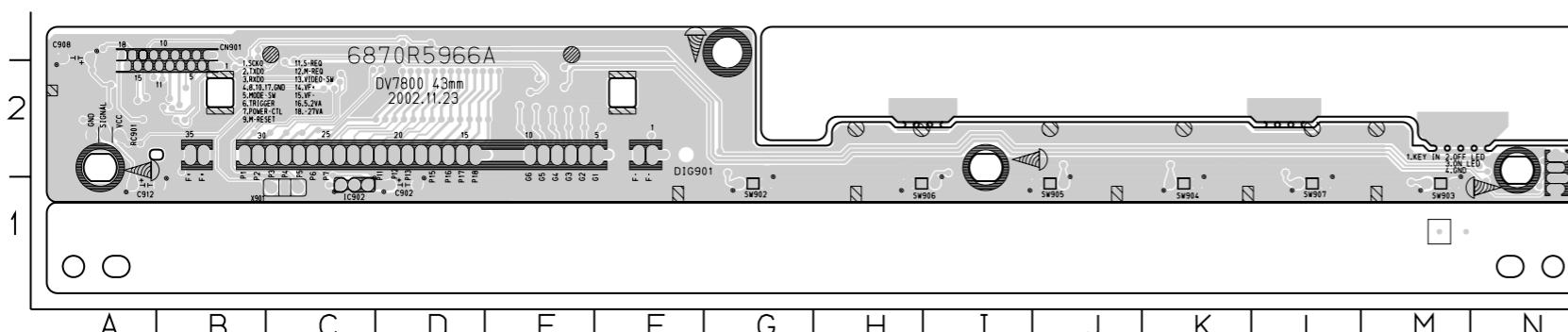
(5 TOOL ONLY)



(Solder Side)

C902	E2	R916	M1
C906	G2	R917	M1
C907	K2	R918	M1
C908	D2	R919	M1
C909	H1	R920	L1
C910	H1	R921	L1
C911	M1	R922	L1
C912	G1	R923	K1
C913	D2	R924	K1
CN901	C2	R925	K1
CN902	O2	R926	K1
DIG901	M1	R927	K1
IC901	J2	R928	K1
IC902	E2	R929	K1
L901	D2	R930	K1
Q901	M2	R931	K1
Q902	M2	R932	K1
R901	F2	R933	J1
R902	E3	R934	J1
R903	D3	R935	J1
R904	C3	R936	J1
R905	B3	R937	I1
R906	B2	R938	G2
R907	D2	R940	L2
R908	G2	R944	C2
R909	G2	RC901	H1
R910	E2	SW902	G2
R911	G1	SW903	E2
R912	M2	SW904	C2
R913	M2	SW905	B2
R914	L1	SW906	A2
R915	L1	SW907	D2
X901	H1	X901	H1

(8 TOOL ONLY)



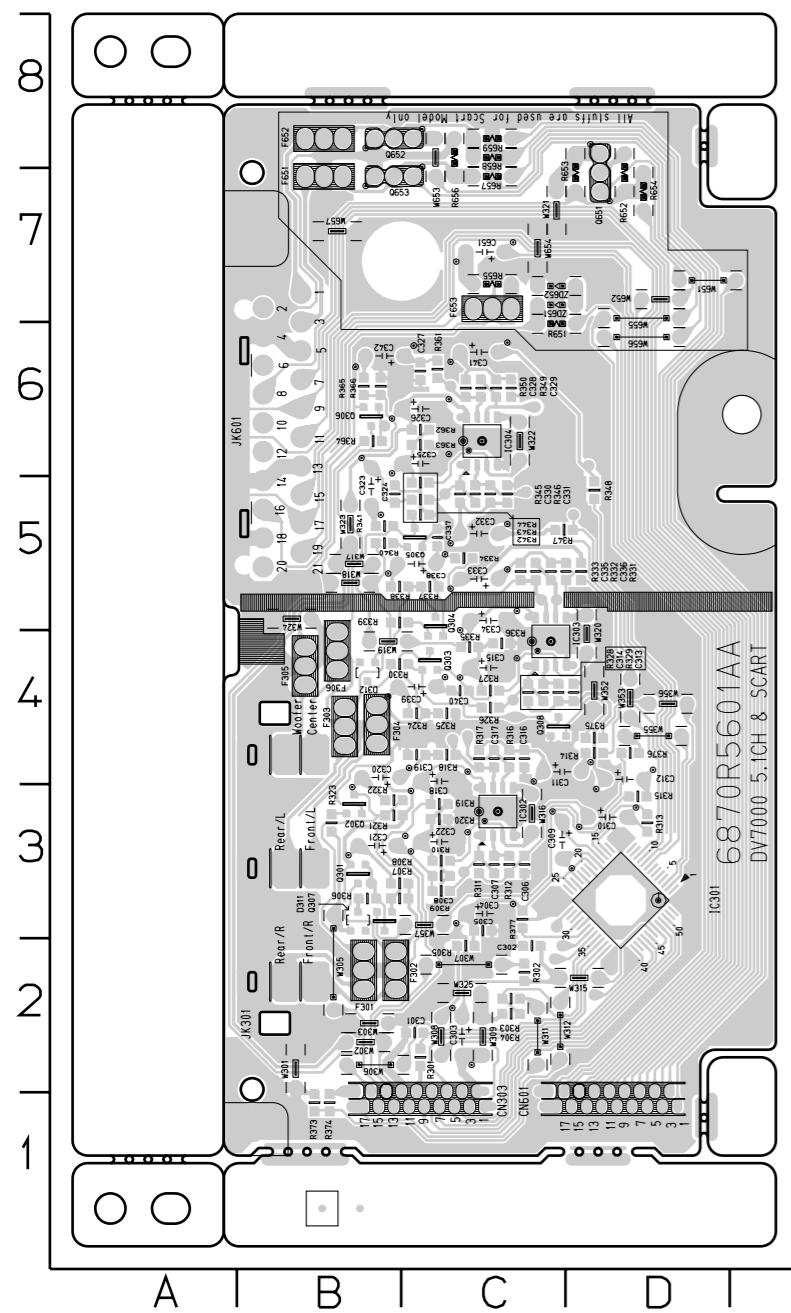
(Solder Side)

LOCATION GUIDE

C902	D1	Q902	E2	R917	E2	R935	C2
C905	D3	R901	G2	R918	E2	R936	B2
C906	D3	R902	K2	R919	F2	R937	B2
C907	C3	R903	K2	R920	E2	R938	B3
C908	A3	R904	J2	R921	D2	R944	A2
C909	C2	R905	J2	R922	D2	R945	A2
C910	B2	R906	J1	R923	D2	R951	E2
C911	F2	R907	K1	R924	D2	R952	E2
C912	A1	R908	D3	R925	D2	R953	C3
C913	C1	R909	D3	R926	D2	R951	M2
CN901	B2	R910	C1	R927	D2	RC901	A2
CN902	N2	R911	A2	R928	D2	SW902	G1
DIG901	F2	R912	F2	R929	D2	SW903	M1
IC901	C2	R913	F2	R930	D2	SW904	K1
IC902	C1	R914	E2	R931	D2	SW905	J1
L901	A2	R915	E2	R932	D2	SW906	H1
L902	B3	R916	E2	R933	C2	SW907	L1
X901	E2	X934	C2	X901	C1		

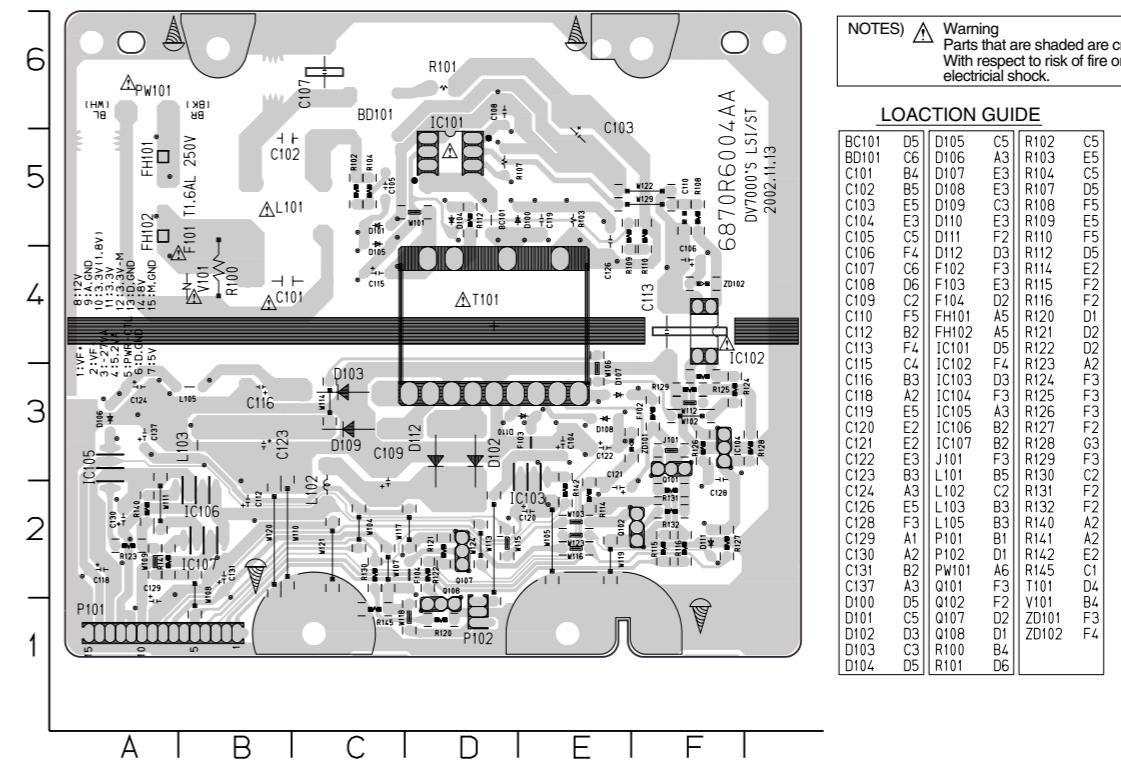
(Solder Side)

4. SCART & 5.1CH P.C.BOARD



(Solder Side)

5. POWER(SMPS) P.C.BOARD



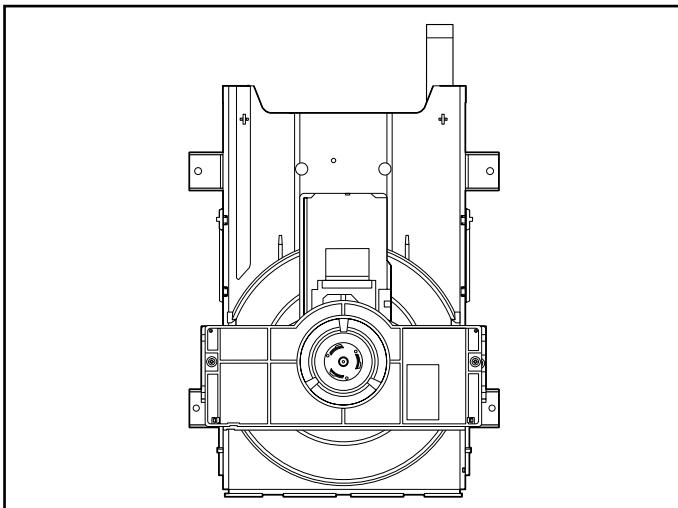
SECTION 4 MECHANISM

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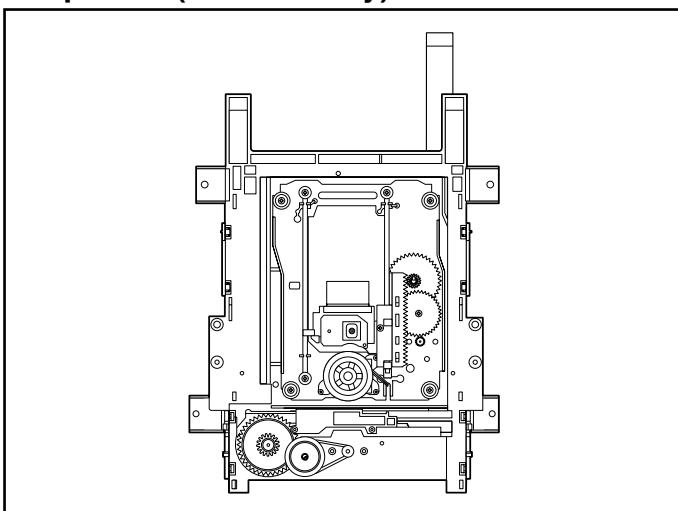
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DECK MECHANISM PARTS LOCATION

- Top View (With Tray)

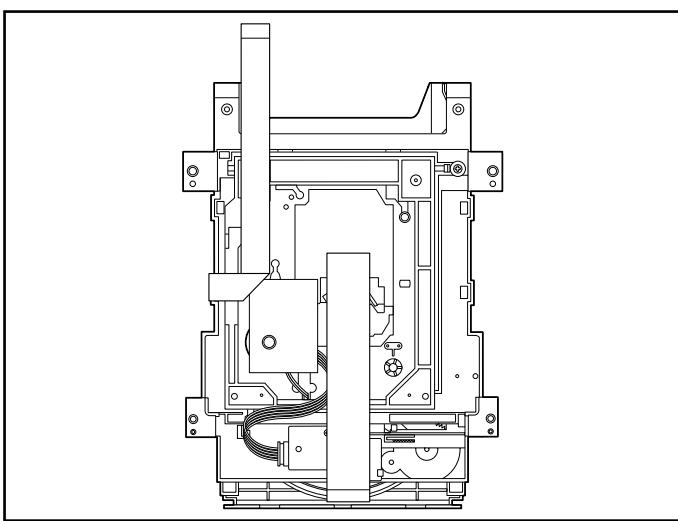


- Top View (Without Tray)



Starting No.	Procedure	Parts	Fixing Type	Disassembly	Figure
	1	Holder Clamp	2 Screws, 2 Locking Tabs		4-1
1	2	Clamp Assembly Disc			4-1
1, 2	3	Plate Clamp			4-1
1, 2, 3	4	Magnet Clamp			4-1
1, 2, 3, 4	5	Clamp Upper			4-1
1	6	Tray Disc			4-2
1, 6	7	Base Assembly Sled	4 Screws,		4-3
1, 2, 6	8	Gear Assembly Feed			4-3
1, 2, 6, 8	9	Gear Middle			4-3
1, 2, 6, 8, 9	10	Gear Assembly Rack	1 Screw		4-3
1, 2, 7	11	Rubber Rear			4-3
1, 2, 7	12	Frame Assembly Up/Down	1 Screw	Bottom	4-4
1, 2	13	Belt Loading	1 Locking Tab		4-4
1, 2, 13	14	Gear Pulley			4-4
1, 2, 13, 14	15	Gear Loading	1 Locking Tab		4-4
1, 2, 7, 12, 13, 14	16	Guide Up/Down			4-4
1, 2, 13	17	PWB Assembly Loading	1 Locking Tab 1 Hook 2Screw	Bottom	4-4
1, 2, 7, 12, 13, 14, 15, 16, 17	18	Base Main			4-4

- Bottom View



Note

When reassembling, perform the procedure in reverse order.

The “Bottom” on Disassembly column of above Table indicates the part should be disassembled at the Bottom side.

DECK MECHANISM DISASSEMBLY

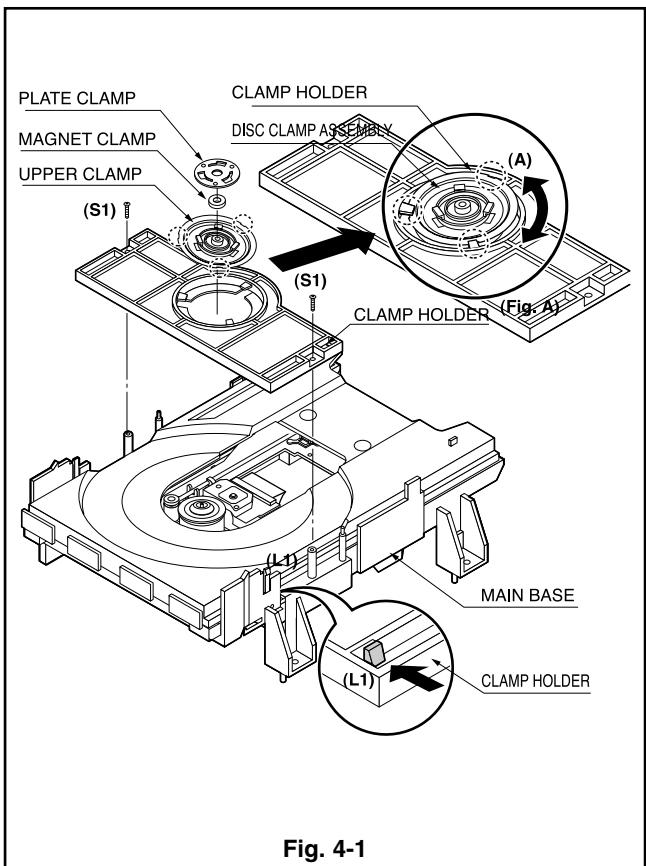


Fig. 4-1

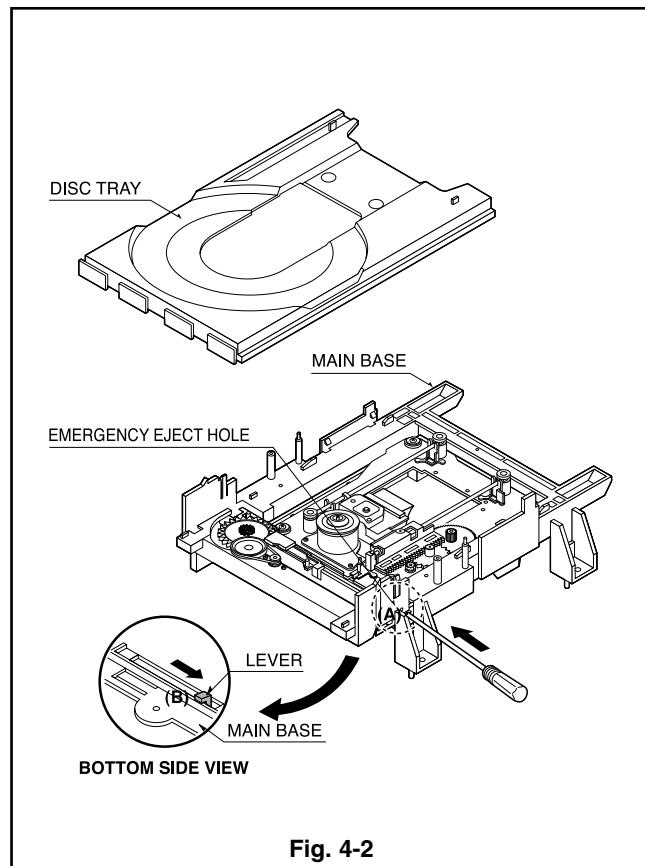


Fig. 4-2

1. Holder Clamp (Fig. 4-1)

- 1) Release 2 Screws(S1).
- 2) Unhook 2 Locking Tabs(L1).
- 3) Lift up the Holder Clamp and then separate it from the Base Main.

1-1. Clamp Assembly Disc

- 1) Place the Clamp Assembly Disc as Fig. (A)
- 2) Lift up the Clamp Assembly Disc in direction of arrow(A).
- 3) Separate the Clamp Assembly Disc from the Holder Clamp.

1-1-1. Plate Clamp

- 1) Turn the Plate Clamp to counterclockwise direction and then lift up the Plate Clamp.

1-1-2. Magnet Clamp

1-1-3. Clamp Upper

2. Tray Disc (Fig. 4-2)

- 1) Insert and push a Driver in the emergency eject hole(A) at the right side, or put the Driver on the Lever(B) of the Gear Emergency and pull the Lever(B) in direction of arrow so that the Tray Disc is ejected about 15~20mm.
- 2) Pull the Tray Disc until it is separated from the Base Main completely.

DECK MECHANISM DISASSEMBLY

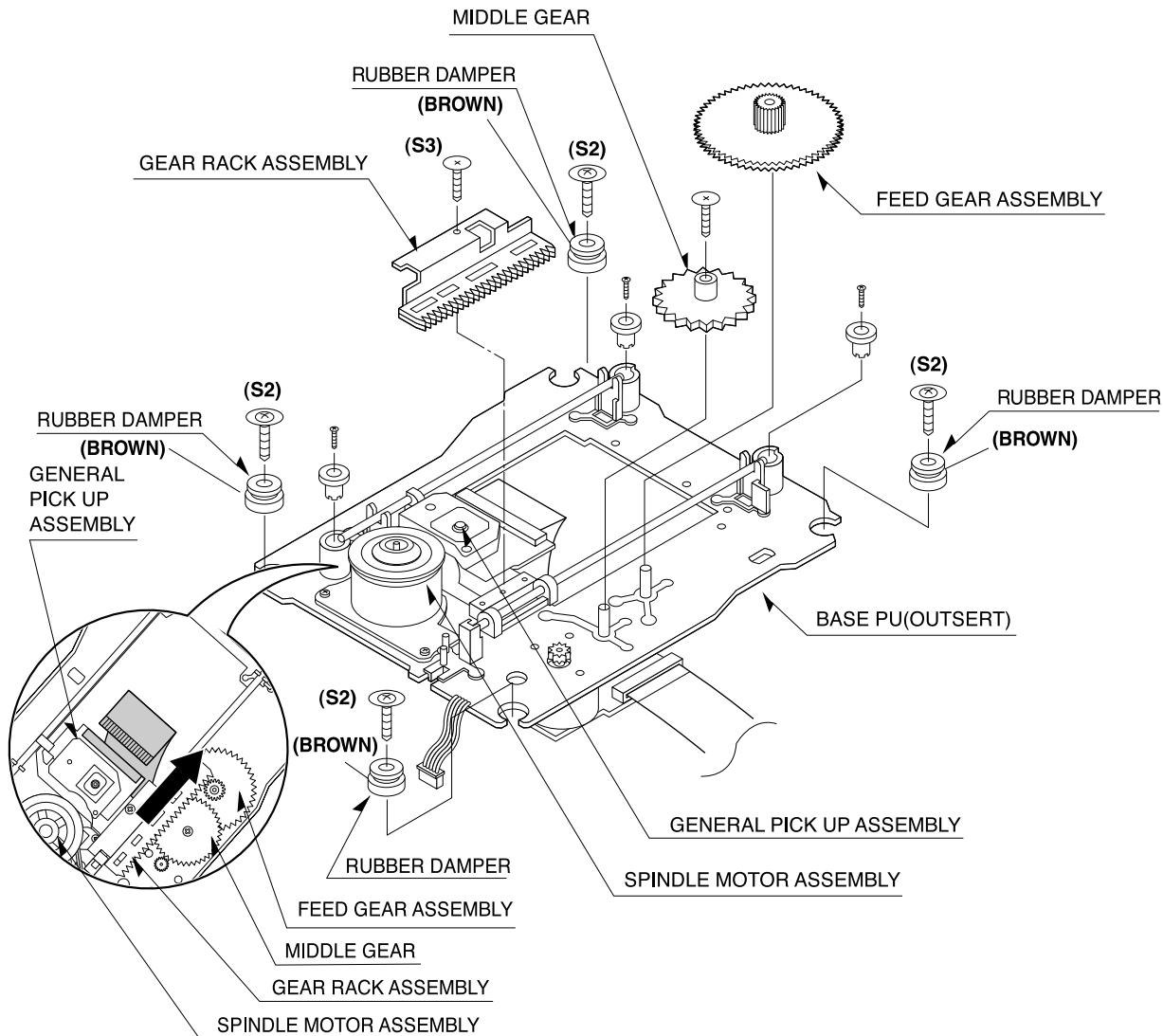


Fig. 4-3

3. Base Assembly Sled (Fig. 4-3)

- 1) Release 4 Screw(S2).
- 2) Disconnect the FFC Connector(C1)

3-1. Gear Assembly Feed

3-2. Gear Middle

3-3. Gear Assembly Rack

- 1) Release the Scerw(S3)

4. Rubber Rear (Fig. 4-3)

DECK MECHANISM DISASSEMBLY

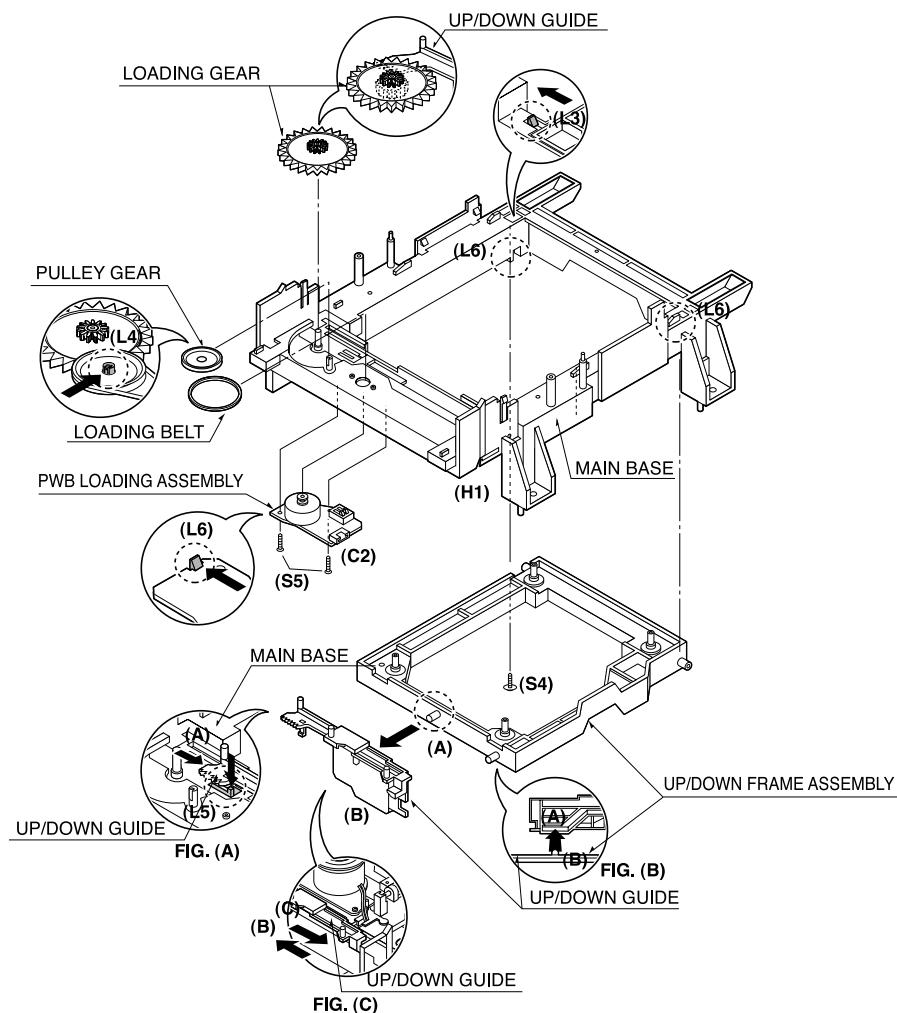


Fig. 4-4

5. Frame Assembly Up/Down (Fig. 4-4)

Note

Put the Base Main face down(Bottom Side)

- 1) Release the Screw(S4)
- 2) Unlock the Locking Tab(L3) in direction of arrow and then lift up the Frame Assembly Up/Down to separate it from the Base Main.

Note

- When reassembling move the Guide Up/Down in direction of arrow(C) until it is positioned as Fig.(C).
- When reassembling insert (A) portion of the Frame Assembly Up/Down in the (B) portion of the Guide Up/Down as Fig.(B)

6. Belt Loading(Fig. 4-4)

Note

Put the Base Main on original position(Top Side)

7. Gear pulley (Fig. 4-4)

- 1) Unlock the Locking Tab(L4) in direction of arrow(B) and then separate the Gear Pulley from the Base Main.

8. Gear Loading (Fig. 4-4)

9. Guide Up/Down (Fig. 4-4)

- 1) Move the Guide Up/Down in direction of arrow(A) as Fig.(A)
- 2) Push the Locking Tab(L5) down and then lift up the Guide Up/Down to separate it from the Base Main.

Note

When reassembling place the Guide Up/Down as Fig.(C) and move it in direction arrow(B) until it is locked by the Locking Tab(L5). And confirm the Guide Up/Down as Fig.(A)

10. PWB Assembly Loading (Fig. 4-4)

Note

Put the Base Main face down(Bottom Side)

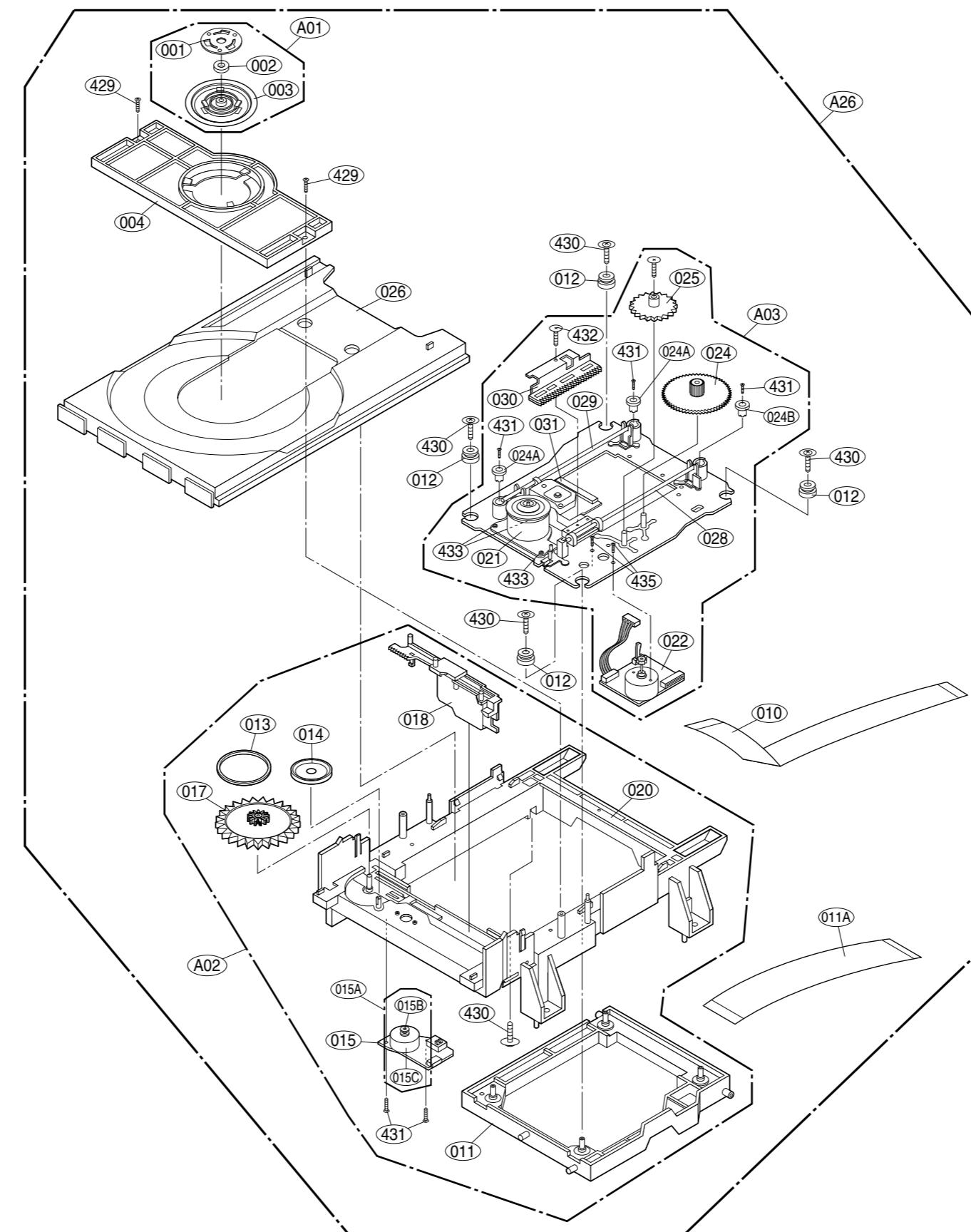
- 1) Release 2 Screws(S5)
- 2) Unlock the Loading Motor (C2) from the Hook (H1) on the Base Main.
- 3) Unlock 2 Locking Tabs(L6) and separate the PWB Assembly Loading from the Base Main.

11. Base Main(Fig. 4-4)

MEMO

EXPLODED VIEWS

1. Deck Mechanism Exploded View



MEMO

MEMO

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

SECTION 5 REPLACEMENT PARTS LIST

MODELS:(A)DV7511E6S(DVD6054) (B)DV7811E6S(DVD6184)

RUN DATE:01.SEP.2003

NSP:Not Service Part

.MECHANICAL SECTION

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
ASSEMBLY PARTS SECTION								
		A00	6721RH0370A	O	O	DECK ASSEMBLY,VIDEO	DECK/MECHA DP-7(55) MITSUMI GO	NSP
		A01	4861R-0016B	O	O	CLAMP ASSEMBLY	DISC DP7 - SH	
		A02	3041R-M003B	O	O	BASE ASSEMBLY	MAIN(DP-7R) - SH	
		A03	3041R-M002B	O	O	BASE ASSEMBLY	SLED DP7(MIT 502W-GOLD) - SH	
PARTS SECTION								
		001	3300R-0547A	O	O	PLATE	CLAMP	NSP
		002	5016H-1016B	O	O	MAGNET	CLAMP(LDM-R608,10*5,1*1.5T)	NSP
		003	4860R-0021A	O	O	CLAMP	UPPER DP7	NSP
		004	4930R-0365A	O	O	HOLDER	CLAMP DP7	
		010	6850R-GF10B	O	O	CABLE,FLAT	P=1.0 FFC UL2896(0.05X0.65) 6	
		011	3210R-M001A	O	O	FRAME	UP/DOWN DP7 MOLD	
		011A	6850R-JW24Y	O	O	CABLE,FLAT	P=1.0 FFC UL2896(0.035X0.7) 23	
		012	5040R-0075D	O	O	RUBBER	DAMPER DP7 (YAMAUCHI 30)	
		013	4400H-1009A	O	O	BELT	GM-RT1332A	
		014	4470R-0055A	O	O	GEAR	PULLEY	
		015	6871R-9248B	O	O	PWB(PCB) ASSEMBLY,TOTAL	DP7 LOADING - SH	
		015A	4681R-A003B	O	O	MOTOR ASSEMBLY	LOADING DP7 - SH	
		015B	4560R-0008A	O	O	PULLEY	MOTOR	
		015C	4680R-E007A	O	O	MOTOR(MECH)	FEEDING BCZ3B01 SANKYO FOR DVD	
		017	4470R-0056A	O	O	GEAR	LOADING	
		018	4974R-0046A	O	O	GUIDE	UP/DOWN(DP-7)	
		020	3040R-M004A	O	O	BASE	MAIN(DP7-55MM) MOLD	NSP
		021	4680R-C010A	O	O	MOTOR(MECH)	SPINDLE JCL9B78 SANKYO FOR DVD	
		022	4681R-B005B	O	O	MOTOR ASSEMBLY	FEEDING DP7 - SH	
		022A	4680R-E008A	O	O	MOTOR(MECH)	FEEDING RF-300EA-1D390 MABUCHI	
		023	4470R-0119A	O	O	GEAR	FEED MOTOR	
		024	4470R-0124A	O	O	GEAR	PINION DP7	
		024A	5006R-0040A	O	O	CAP	SKEW (T) DP7	
		024B	5006R-0039A	O	O	CAP	SKEW (R) DP7	
		025	4470R-0122A	O	O	GEAR	MIDDLE A DP7	
		026	3390R-0015A	O	O	TRAY	DISC DP7	
		027	4470R-0123A	O	O	GEAR	MIDDLE B DP7	
		028	4370R-0083A	O	O	SHAFT	DECK/MECHA DP7 OTHER PU-T	
		029	4370R-0075A	O	O	SHAFT	PU	
		030	4471R-0010A	O	O	GEAR ASSEMBLY	RACK DP7	
		031	6716DPH005A	O	O	PICK UP,DVD	PVR-502W MITSUMI PLAYER H/HIGH	
		032	6871R-9243B	O	O	PWB(PCB) ASSEMBLY,TOTAL	DP7 FEEDING - SH	
SCREW								
		430	1SZZR-0046A	O	O	SCREW,DRAWING	+ 1 D2.0 L6.0 SWRCH16A/FZY	
		431	1SZZH-1007B	O	O	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/ZNBK 4MM 1	
		433	1SZZR-0050A	O	O	SCREW,DRAWING	+ 1 D2.0 L4.5 SWRCH16A/ZNY S-T	
		434	1SZZR-0023B	O	O	SCREW,DRAWING	+ 1 D1.7 L6.0 SWRCH16A/FZY RAC	
		435	1SZZR-0011A	O	O	SCREW,	MACHINE	
		436	1SZZR-0047A	O	O	SCREW,DRAWING	+ 1 D1.4 L4.5 SWRCH16A/FZY TAP	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
.CABINET & MAIN FRAME SECTION								
ASSEMBLY PARTS SECTION								
	A42	6871R-5725A	O		PWB(PCB) ASSEMBLY,TOTAL	DV7000S 5TOOL KEY SH		
	A42	6871R-5728A	O		PWB(PCB) ASSEMBLY,TOTAL	DV7000S 8TOOL KEY SH		
	A43	3501RF3007C	O		BOARD ASSEMBLY	DVD DV7811E4M HA3GLL		
	A43	3501RF6694F	O		BOARD ASSEMBLY	DVD DV7511E6L HA8PLL		
	A44	3141R-D003F	O		CHASSIS ASSEMBLY	DV7510E LSI,MTK 55MM	NSP	
	A44	3141R-D004F	O		CHASSIS ASSEMBLY	DV7810E MTK 43MM		
	A46	6885R-1015D	O		SUB PWB(PCB) ASSEMBLY	DV7511E6S HA8PLL		
	A46	6885R-1015J	O		SUB PWB(PCB) ASSEMBLY	DV7811E6S HA8PLL		
	A47	6871R-7604C	O		PWB(PCB) ASSEMBLY,TOTAL	DV7000S SMPS SH 220V(CE)		
	A47	6871R-7604D	O		PWB(PCB) ASSEMBLY,TOTAL	DV7000S LSI SMPS SH 220V (CE)		
	A48	6871R-7601C	O	O	PWB(PCB) ASSEMBLY,TOTAL	DV7000S MTK SH SCART		
	A49	6871R-5715A	O		PWB(PCB) ASSEMBLY,TOTAL	DV7000S 5TOOL TIMER SH		
	A49	6871R-5718A	O		PWB(PCB) ASSEMBLY,TOTAL	DV7000S 8TOOL TIMER SH		
PARTS SECTION								
	250	3110R-D001A	O		CASE	DV7000 PRESS 430-55(A288G)		
	250	3110R-D004A	O		CASE	DV7000 PRESS 43MM A288G		
	260	3140R-D002A	O	O	CHASSIS	DV7000 PRESS MAIN	NSP	
	261	5040R-0069D	O	O	RUBBER	FOOT(SILICONE SPONGE DS-08 T=		
	280	3721R-F306F	O		PANEL ASSEMBLY,FRONT[NORMAL PA	DV7511E6L HA8PLL	NSP	
	280	3721R-F318C	O		PANEL ASSEMBLY,FRONT[NORMAL PA	DV7811E4M HA3GLL	NSP	
	283	3581R-T068B	O		DOOR ASSEMBLY	TRAY DV7500 (CHINA)		
	283	3581R-T069A	O		DOOR ASSEMBLY	TRAY DV7800 (SPRAY)		
⚠	300	6410RCHX03A	O	O	POWER CORD	CE-503/JL201B H03VVH2-F 2X0.75		
	320	3720R-D072F	O		PANEL,VIDEO	DVD DV7510E PRESS LSI,MTK 55MM		
	320	3720R-D074F	O		PANEL,VIDEO	DVD DV7810E PRESS MTK 43MM		
SCREW								
	452	353-051A	O		SCREW	SPECIAL		
	452	353-051A	O		SCREW	SPECIAL		
	463	353-051G	O	O	SCREW,DRAWING	+ 2 D3.0 L8.0 MSWR3/FN TB ROUN		
	465	353-046K	O	O	SCREW	SPECIAL (3X10 B.K)		
	467	353-046N	O	O	SCREW,DRAWING	SPECIAL(3X8 BK.)		
.PACKING & ACCESSORY SECTION								
	801	3835RS0063W	O		INSTRUCTION ASSEMBLY	DVD DV7511E6S HA8PLL		
	801	3835RS0064A	O		INSTRUCTION ASSEMBLY	DVD DV7811E6S HA8PLL		
	802	3890R-H803L	O	O	BOX	DV7511E6M HA8PLL SWW3-A 0.870		
	803	3920R-E066A	O	O	PACKING,CASING	DV7000 0.02 68 EPS 10 1165 238		
	804	292-053B	O	O	BAG	SOFT(MIDI)	NSP	
	808	841-0021	O	O	BATTERY,MN	ER03X HI WATT 1.5V .MA/H AAA		
	810	6851RP0003N	O	O	CABLE ASSY,RF	DVD CABLE ASSY,RCA USING AREA		
	811	6611R1G001A	O	O	PLUG ASSY	1WAY YELLOW GLOBAL		
	812	6611R2G001A	O	O	PLUG ASSY	2WAY RED/WHITE GLOBAL		
.REMOTE CONTROL SECTION								
	900	6711R1P063A	O	O	REMOTE CONTROLLER ASSEMBLY	N6 UNIFIED DV7520E LG W/O DISC		

.ELECTRICAL SECTION

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		BC101	636-004C	O	O	FILTER(CIRC),EMC	BEAD CORE BFS3550R2FD8,R T/P	
		BD101	ODD160000DA	O	O	DIODE	S1WBA60(1A 600V) SHIDENKEN	
⚠		C101	624-088S	O	O	CAPACITOR,DRAWING	MPX104K ETR/EUROPTRONIC BULK	
⚠		C102	624-088S	O	O	CAPACITOR,DRAWING	MPX104K ETR/EUROPTRONIC BULK	
		C103	0CE686CU611	O		CAPACITOR,AL.ELECTROLYTIC	68UF SHL,SD 400V M FL BK7.5	
		C103	0CE686JU6A0		O	CAPACITOR,FIXED ELECTROLYTIC	68UF SMH,HC 400V 20% VNSN BULK	
		C104	624-085D	O	O	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C106	0CE1064F638	O	O	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C107	0CG2220U630	O	O	CAPACITOR,SEMI CERAMIC	2200 PF 400V M E R (NK,AD,SD)	
		C108	0CE4744K638	O	O	CAPACITOR,ELECTROLYTIC	0.47M SRA 50V M FM5 TP(5)	
		C109	0CE108BF630	O	O	CAPACITOR,FIXED ELECTROLYTIC	1000UF KME 16V M FM5 BULK	
		C110	0CN4730K948	O	O	CAPACITOR,FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)	
		C112	0CE3376D638	O	O	CAPACITOR,ELECTROLYTIC	330UF SMS 10V M FM5 TP5	
		C113	0CG1020U630	O	O	CAPACITOR,SEMI CERAMIC	1000PF 400V M E(Z5U) R	
		C115	0CE3366K638	O	O	CAPACITOR,FIXED ELECTROLYTIC	33UF SMS,SG 50V 20% FM5 TP 5	
		C116	0CE477BH630	O	O	CAPACITOR,AL.ELECTROLYTIC	470UF KME TYPE 25V M FM5 BULK	
		C118	0CE1074F638	O	O	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C119	624-087G	O	O	CAPACITOR	HIGH-VOL 68PF/1KV SMPS SAMHWA	
		C120	0CE1074F638	O	O	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C121	0CE2276F638	O	O	CAPACITOR,ELECTROLYTIC	220U SMS 16V M FM5 TP(5)	
		C122	624-085D	O	O	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C123	0CE108BF630	O	O	CAPACITOR,FIXED ELECTROLYTIC	1000UF KME 16V M FM5 BULK	
		C124	0CE337CH618	O	O	CAPACITOR,FIXED ELECTROLYTIC	330UF SHL,SD 25V 20% FL TP 5	
		C126	0CQ1031Y519	O	O	CAPACITOR,POLYESTER	0.01UF D 630V K PE NI TP	
		C128	0CQ1042K409	O	O	CAPACITOR,FIXED FILM	0.1UF S 50V J PE TP	
		C129	0CE1074F638	O	O	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C130	0CE1074F638	O	O	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C131	0CE1074F638	O	O	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C137	0CE3376D638	O	O	CAPACITOR,ELECTROLYTIC	330UF SMS 10V M FM5 TP5	
		C201	0CE1064F638	O	O	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C202	0CE1064F638	O	O	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C203	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C204	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C205	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C206	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C207	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C208	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C209	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C210	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C211	0CH1562K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	5600PF 50V 10% X7R(X) 1608 R/T	
		C212	0CH1223K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.022UF 50V Z Y5V(F) 1508 R/TP	
		C213	0CH1223K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.022UF 50V Z Y5V(F) 1508 R/TP	
		C215	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C216	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C217	0CE1074F638	O	O	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C218	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C219	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C220	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C221	0CE1064F638	O	O	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C222	0CH1105F942	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000000PF 16V 80%,-20% Y5V(F)	
		C223	0CH1105F942	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000000PF 16V 80%,-20% Y5V(F)	
		C224	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C225	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C226	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C227	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		C228	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C229	0CH1105F942	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000000PF 16V 80%, -20% Y5V(F)	
		C230	0CH1105F942	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000000PF 16V 80%, -20% Y5V(F)	
		C231	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C232	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C233	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C234	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C235	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C236	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C237	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C238	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C239	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C240	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C241	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C242	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C243	0CH1103K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C244	0CH4120K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	12P 50V J COG 1.6X0.8 R/TP	
		C245	0CH4120K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	12P 50V J COG 1.6X0.8 R/TP	
		C246	0CH1102K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C247	0CH1102K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C248	0CH1102K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C249	0CH1102K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C250	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C251	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C252	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C253	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C254	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C255	0CE1064F638	O	O	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C256	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C261	0CH1822K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	8200PF 50V 10% X7R(X) 1608 R/T	
		C262	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C263	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C264	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C267	0CH4330K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C270	0CH1102K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C271	0CH4180K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	18P 50V J COG 1.6X0.8 R/TP	
		C272	0CH4560K412	O	O	CAPA,CHIP CERAMIC M/L T.C F/S	56P 50V J COG 1.6X0.8 R/TP	
		C273	0CH4070K112	O	O	CAPACITOR,FIXED CERAMIC(High d	7PF 50V 0.5 pF NPO 1608 R/TP	
		C274	0CH1102K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C277	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C280	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C281	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C282	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C283	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C401	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C402	0CE1054K638	O	O	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C403	0CE1054K638	O	O	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C404	0CE1054K638	O	O	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C405	0CE1054K638	O	O	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C406	0CE1054K638	O	O	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C407	0CE1054K638	O	O	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C410	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C411	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C413	0CE4775C638	O	O	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C414	0CE4775C638	O	O	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C415	0CE4775C638	O	O	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	

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		C416	0CE4775C638	O	O	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C417	0CE4775C638	O	O	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C418	0CE4775C638	O	O	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C419	0CE1054K638	O	O	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C420	0CE2264F638	O	O	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C422	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C423	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C431	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C432	0CE4775C638	O	O	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C434	0CE1064F638	O	O	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C435	0CE2264F638	O	O	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C436	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C437	0CE2264F638	O	O	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C438	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C439	0CE2264F638	O	O	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C440	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C441	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C442	0CE2264F638	O	O	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C443	0CE2264F638	O	O	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C444	0CH1392K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	3900PF 50V K Z5U(E) 1608 R/TP	
		C445	0CH1392K562	O	O	CAPACITOR,FIXED CERAMIC(Temp.c	3900PF 50V K Z5U(E) 1608 R/TP	
		C446	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C447	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C448	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C449	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C450	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C451	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C452	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C453	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C454	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C501	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C502	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C503	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C504	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C505	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C506	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C507	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C508	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C509	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C510	0CH4270K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C511	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C512	0CH4101K412	O	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C513	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C514	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C515	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C516	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C517	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C518	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C519	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C520	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C521	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C522	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C523	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C524	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C525	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C530	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		C531	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C532	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C533	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C534	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C535	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C536	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C537	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C538	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C540	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C541	0CH4180K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	18P 50V J COG 1.6X0.8 R/TP	
		C542	0CH4180K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	18P 50V J COG 1.6X0.8 R/TP	
		C543	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C544	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C545	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C546	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C547	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C548	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C549	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C550	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C551	0CE1064F638	O	O	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C553	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C554	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C555	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C556	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C557	0CH4221K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C558	0CH4330K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C559	0CH4330K412	O	O	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C560	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C561	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C562	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C563	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C651	0CE2274C638	O	O	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C902	0CE1064F638	O	O	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C906	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C907	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C908	0CE2274C638	O	O	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C909	0CE4764J638	O		CAPACITOR,AL.ELECTROLYTIC	47UF SRA,SS 35V M FM5 TP 5	
		C909	0CH1104K942		O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C910	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C911	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C912	0CE4764F638	O	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C913	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C9A1	0CH1104K942	O	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		CN401	561-7110	O	O	CONNECTOR (CIRC),WAFER	GIL-S-15P-S2T2-EF LG CABLE 15P	
		CN402	6630XE00118	O	O	CONNECTOR (CIRC),FFC/FPC	04-6232-018-010-000/JE500-B1.0	
		CN505	6630XE00118	O	O	CONNECTOR (CIRC),FFC/FPC	04-6232-018-010-000/JE500-B1.0	
		CN601	6630R-FB05R	O	O	CONNECTOR (CIRC),FFC/FPC	00-6232-018-104-800 ELCO 18PIN	
		CN901	6630R-FB05R		O	CONNECTOR (CIRC),FFC/FPC	00-6232-018-104-800 ELCO 18PIN	
		CN901	6630R-FB10R	O		CONNECTOR (CIRC),FFC/FPC	00-6232-018-006-800 ELCO 18PIN	
		CN902	6631R-E034H		O	CONNECTOR ASSEMBLY	GIL-S/9073ST 4 PIN 100M/M UL10	
		CN902	6631R-E034H	O		CONNECTOR ASSEMBLY	GIL-S/9073ST 4 PIN 100M/M UL10	
		CN903	561-712D		O	CONNECTOR (CIRC),WAFER	GIL-S-04P-S2L2-EF LG CABLE 4PI	
		CN903	561-712D	O		CONNECTOR (CIRC),WAFER	GIL-S-04P-S2L2-EF LG CABLE 4PI	
		D100	0DD221009AA	O	O	DIODE,RECTIFIERS	ERA22-10 KFLB,TP ,R T/P,FUJI	
		D101	0DZ240009AF	O	O	DIODE,ZENERS	GDZJ24B GRANDE TP26 DO34 0.5W	
		D102	0DR158220AA	O	O	DIODE,RECTIFIER	1N5822 BK RECTRON DO201AD 40V	

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		D103	0DR202000AB	O	O	DIODE,RECTIFIER	HER202 BK RECTRON NON 100V 2A	
		D104	0DR104009BA	O	O	DIODE,RECTIFIERS	RL104F TP RECTRON - 400V 1A 30	
		D105	874-000T	O	O	WIRE COPPER TIN COATED	D=0.6 ROLL	
		D106	0DR104009AB	O	O	DIODE,RECTIFIER	RL104 R. TP GULF SEMICONDUCTOR	
		D107	0DR104009BA	O	O	DIODE,RECTIFIERS	RL104F TP RECTRON - 400V 1A 30	
		D108	0DR104009BA	O	O	DIODE,RECTIFIERS	RL104F TP RECTRON - 400V 1A 30	
		D109	0DR202000AB	O	O	DIODE,RECTIFIER	HER202 BK RECTRON NON 100V 2A	
		D110	0DR104009BA	O	O	DIODE,RECTIFIERS	RL104F TP RECTRON - 400V 1A 30	
		D111	0DRRE00029A	O	O	DIODE,RECTIFIERS	1N17 RECTRON TP NON 20V 1A 20	
		D112	0DR158220AA	O	O	DIODE,RECTIFIER	1N5822 BK RECTRON DO201AD 40V	
		D401	0DSRM00118A	O	O	DIODE,SWITCHING	DAP202K T146 ROHM R/TP SMD 80V	
		DIG901	6302R-V205A		O	DIGITRON	HNV-06SC03T SS SDI SEG VFD DVD	
		DIG901	6302R-V205A	O		DIGITRON	HNV-06SC03T SS SDI SEG VFD DVD	
⚠		F101	0FS1601B51D	O	O	FUSE,SLOW BLOW	1600MA 250 V 5.2X20 CY/GL KS/J	
		F102	0RF0200F708	O	O	RESISTOR,VARIABLE[CARBON FILM]	0.2 OHM 1/6 W 10% TA26	
		F103	874-000T	O	O	WIRE COPPER TIN COATED	D=0.6 ROLL	
		F104	874-000T	O	O	WIRE COPPER TIN COATED	D=0.6 ROLL	
		F651	6200HJC901A	O	O	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		F652	6200HJC901A	O	O	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		F653	6200HJC901A	O	O	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		FH101	586-008B	O	O	HOLDER	FUSE CLIP TP SINSUNG	
		FH102	586-008B	O	O	HOLDER	FUSE CLIP TP SINSUNG	
		IC01	0IXL953615A	O	O	IC,XILINX	XC9536-15VQ44C 44P VQFP BK CPL	
⚠		IC101	0IPMGH004A	O	O	IC,POWER MANAGEMENT	ICE2B0565 INFINEON 8PIN DIP ST	
⚠		IC102	657-063A	O	O	SENSOR	LTV-817B,PHOTO COUPLER(LITEON)	
		IC103	0IPMGFA017A	O	O	IC,POWER MANAGEMENT	KA78R12TSTU FAIRCHILD 4P TO-22	
		IC104	0IKE431000A	O	O	IC,KEC	KIA431 3 PIN TP	
		IC105	0IPMGFA016A	O	O	IC,POWER MANAGEMENT	KA78R08TSTU FAIRCHILD 4P TO-22	
		IC106	0IPMGFA015A	O	O	IC,POWER MANAGEMENT	KA78R33TSTU FAIRCHILD 4P TO-22	
		IC107	0IPMGFA015A	O	O	IC,POWER MANAGEMENT	KA78R33TSTU FAIRCHILD 4P TO-22	
		IC201	0IPRPSA010A	O	O	IC,PERIPHERALS	LA6560-A-TE-L SANYO HSOP-36R R	
		IC202	0ILNRSG010A	O	O	IC,LINEAR	STM6316-RAM SGS-TOMSON 100PIN	
		IC203	0IJR341400C	O	O	IC,JRC	NJM3414AM-TE1,3K/REEL. JRC -	
		IC204	0IPMGA7001A	O	O	IC,POWER MANAGEMENT	AMC1117-1.8SJ ADD MICROTECH 3P	
		IC401	0IPRPBB006A	O	O	IC,PERIPHERALS	PCM1742KE BUR BROWN 16PIN SSOP	
		IC402	0IJR458000B	O	O	IC,JRC	NJM4580M 8,DMP8 TP OP AMP 2K/R	
		IC403	0IPRPMT008A	O	O	IC,PERIPHERALS	MM1623XFBE MITSUMI 28PIN SOP R	
		IC501	0ILNRSG011A	O	O	IC,LINEAR	STI5589 SGS-TOMSON 208PIN PQF	
		IC502	0IMMRIII006A	O	O	IC,MEMORIES	IS42S16400A-7T INTEGRATED SILI	
		IC503	0IMMRHY040A	O	O	IC,MEMORIES	HY29LV160TT-70 HYNIX 48PIN TSO	
		IC504	0IFA742440F	O	O	IC,FAIRCHILD	MM74HCT244SJ 20P SOIC TP 3-STA	
		IC506	0ISLTLO015A	O	O	IC,STANDARD LOGIC	TC7WHU04FU TOSHIBA 8PIN SSOP R	
		IC508	0IPMGA7001A	O	O	IC,POWER MANAGEMENT	AMC1117-1.8SJ ADD MICROTECH 3P	
		IC901	0IMCRHY070B	O	O	IC,MICRO CONTROLLER	HMS81C2012A-HK006 HYNIX 64PIN	
		IC902	0IKE704200B	O	O	IC,KEC	KIA7042P 3P 4.2V RESET(TAPING)	
		JK401	6612JH003LD	O	O	JACK,RCA	RCA-701A-02(SILVER) YUQIU	
		JK601	6612M00003A	O	O	JACK,SCART	RGB-21F(REV TYPE-SHIELD) BAE E	
⚠		L101	616-145M	O	O	FILTER(CIRC),DRAWING	V-04350 LS FUTAI BULK =616-145	
		L102	633-088D	O	O	COIL,CHOKE	CHOCK ,20UH KWANGSUNG LEAD CU	
		L103	633-088G	O	O	COIL,CHOKE	CHOCK(22MH) 5MM TOKO TP	
		L105	633-088G	O	O	COIL,CHOKE	CHOCK(22MH) 5MM TOKO TP	
		L201	0LR0102K035	O	O	INDUCTOR RADIAL LEAD	10M K 6X6 L5 TP	
		L202	0LR0102K035	O	O	INDUCTOR RADIAL LEAD	10M K 6X6 L5 TP	
		L203	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L204	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L205	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	

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		L206	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L207	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L208	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L209	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L210	OLR0221K035	O	O	INDUCTOR RADIAL LEAD	2.2M K 6X6 L5 TP	
		L211	OLR0102K035	O	O	INDUCTOR RADIAL LEAD	10M K 6X6 L5 TP	
		L401	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L402	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L403	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L405	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L406	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L407	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L408	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L501	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L502	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L503	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L504	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L505	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L506	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L507	OLCCE00005T	O	O	INDUCTOR,CHIP	HB-1S1608-400JT 40OHM CERATECH	
		L508	6200JB8010V	O	O	FILTER(CIRC),EMC	LFA20-2A1E473MT MITSUBISHI MAT	
		L901	6200HJC102A	O	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L902	6200HJC102A		O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		LED01	ODL111209CA	O	O	LED	LTL-1CHEES-UA TP LITEON RED =0	
		LED02	ODL111209EA	O	O	LED	LTL-1CHKES-UA TP LITEON GREEN	
		LED03	ODL111209CA	O	O	LED	LTL-1CHEES-UA TP LITEON RED =0	
		LED901	ODL325319AA	O	O	LED	SPR325MVWT31 TP ROHM GREEN/RED	
		Q101	OTR534309BA	O	O	TRANSISTOR	2SC5343-L TP AUK TO92	
		Q102	OTR105009AD	O	O	TRANSISTOR,BIPOLARS	KRA105M KEC TP TO92 50V 100MA	
		Q107	OTR127309AA	O	O	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q108	OTR534309BA	O	O	TRANSISTOR	2SC5343-L TP AUK TO92	
		Q202	OTR387509AC	O	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q203	OTR387509AC	O	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q204	OTR150409AC	O	O	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q205	OTR150409AC	O	O	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q206	OTR150409AC	O	O	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q207	OTR387509AC	O	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q208	OTR387509AC	O	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q401	OTR150409AC	O	O	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q402	OTR387509AC	O	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q404	OTR387509AC	O	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q405	OTR103009AC	O	O	TRANSISTOR	KRA103S-T1(PC)22-22 CHIP KEC	
		Q406	OTR103009AC	O	O	TRANSISTOR	KRA103S-T1(PC)22-22 CHIP KEC	
		Q407	OTR103009AC	O	O	TRANSISTOR	KRA103S-T1(PC)22-22 CHIP KEC	
		Q408	OTR103009AA	O	O	TRANSISTOR	CHIP KRC103S-T1(NC)22-22 KEC	
		Q651	OTR120309AE	O	O	TRANSISTOR	SRC1203 TP AUK TO92 22K,22K	
		Q901	OTR103009AA	O	O	TRANSISTOR	CHIP KRC103S-T1(NC)22-22 KEC	
		Q902	OTR103009AA	O	O	TRANSISTOR	CHIP KRC103S-T1(NC)22-22 KEC	
		R01	ORD3900F608	O	O	RESISTOR,FIXED CARBON FILM	390 OHM 1/6 W 5% TA26	
		R02	ORD3900F608	O	O	RESISTOR,FIXED CARBON FILM	390 OHM 1/6 W 5% TA26	
		R03	ORD3900F608	O	O	RESISTOR,FIXED CARBON FILM	390 OHM 1/6 W 5% TA26	
		R100	ORD1504H632	O	O	RESISTOR,FIXED CARBON FILM	1.5M OHM 1/2 W 5.00% MF10	
		R101	614-007A	O	O	RESISTOR	2.7/2W CEMENT SMPS V	
		R103	0RS5602K619	O	O	RESISTOR,FIXED METAL OXIDE FIL	56K OHM 2 W 5.00% TR	
		R107	0RS0600K619	O	O	RESISTOR,FIXED METAL OXIDE FIL	0.6 OHM 2 W 5% TR	
		R108	874-000T	O	O	WIRE COPPER TIN COATED	D=0.6 ROLL	

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		R109	ORD2203F608	O	O	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5% TA26	
		R110	ORD2203F608	O	O	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5% TA26	
		R112	ORD0472F608	O	O	RESISTOR,FIXED CARBON FILM	47 OHM 1/6 W 5% TA26	
		R114	ORD1003F608	O	O	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R115	ORD0182F608	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA26	
		R116	ORD0182F608	O	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA26	
		R120	ORD4702F608	O	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5% TA26	
		R121	ORD1201F608	O	O	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5% TA26	
		R122	ORD2200F608	O	O	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R123	ORD1001F608	O	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R124	ORD1800F608	O	O	RESISTOR,FIXED CARBON FILM	180 OHM 1/6 W 5% TA26	
		R125	ORD3901F608	O	O	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5% TA26	
		R126	ORD1001F608	O	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R127	ORN3601E408	O	O	RESISTOR,FIXED METAL FILM	3.6K OHM 1/8 W 1.00% TA26	
		R128	ORN3301E408	O	O	RESISTOR,FIXED METAL FILM	3.3K OHM 1/8 W 1.00% TA26	
		R129	874-000T	O	O	WIRE COPPER TIN COATED	D=0.6 ROLL	
		R130	ORD1002F608	O	O	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R131	ORD2201F608	O	O	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R132	ORD1002F608	O	O	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R140	ORD1001F608	O	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R141	ORD1001F608	O	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R142	ORD1001F608	O	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R145	ORD4700F608	O	O	RESISTOR,FIXED CARBON FILM	470 OHM 1/6 W 5% TA26	
		R201	ORH0562C622	O	O	RESISTOR,METAL GLAZED(CHIP)	56 OHM 1 / 16 W 1608 5.00% D	
		R202	6200RJC003A	O	O	FILTER(CIRC),EMC	HB-1S1608-121 CERATECH TP	
		R203	6200RJC003A	O	O	FILTER(CIRC),EMC	HB-1S1608-121 CERATECH TP	
		R204	6200RJC003A	O	O	FILTER(CIRC),EMC	HB-1S1608-121 CERATECH TP	
		R205	ORH0562C622	O	O	RESISTOR,METAL GLAZED(CHIP)	56 OHM 1 / 16 W 1608 5.00% D	
		R206	ORH0562C622	O	O	RESISTOR,METAL GLAZED(CHIP)	56 OHM 1 / 16 W 1608 5.00% D	
		R207	ORH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R208	ORH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R209	ORH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R210	ORH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R211	ORH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R213	ORH5601C622	O	O	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R214	ORH4700C422	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 1.00% D	
		R215	ORH4700C422	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 1.00% D	
		R216	ORH1802C422	O	O	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 1.00% D	
		R217	ORH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R218	ORH0221C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R219	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R220	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R221	ORH0221C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R222	ORH0221C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R223	ORH0221C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R224	ORH0101D622	O	O	RESISTOR,METAL GLAZED(CHIP)	1 OHM 1 / 10 W 2012 5.00% D	
		R225	ORH0221C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R226	ORH2201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R228	ORH1004C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	
		R229	ORH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R230	ORH6801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R231	ORH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R232	ORH3901C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 16 W 1608 5.00% D	
		R233	ORH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R235	ORH2002C422	O	O	RESISTOR,METAL GLAZED(CHIP)	20K OHM 1 / 16 W 1608 1.00% D	
		R236	ORH2701C422	O	O	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 1.00% D	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R237	ORH1004C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	
		R245	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R246	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R248	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R249	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R250	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R252	ORH1002C422	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 1.00% D	
		R253	ORH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R254	ORH1802C422	O	O	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 1.00% D	
		R255	ORH5601C622	O	O	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R256	ORH4700C422	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 1.00% D	
		R257	ORH4700C422	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 1.00% D	
		R258	ORH4700C422	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 1.00% D	
		R259	ORH2201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R261	ORH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R262	ORH1802C422	O	O	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 1.00% D	
		R263	ORH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R264	ORH5601C622	O	O	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R265	ORH5601C622	O	O	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R266	ORH1802C422	O	O	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 1.00% D	
		R267	ORH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R268	ORH1201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R269	ORH1201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R271	ORH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R272	ORH0272C622	O	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R273	ORH0272C622	O	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R274	ORH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R275	ORH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R276	ORH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R277	ORH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R278	ORH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R279	ORH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R280	ORH0272C622	O	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R281	ORH0272C622	O	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R282	ORH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R283	ORH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R286	ORH2700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 16 W 1608 5.00% D	
		R287	ORH2700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 16 W 1608 5.00% D	
		R288	ORH6801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R289	ORH6801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R291	ORH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R292	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R293	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R294	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R296	ORH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R297	ORH2201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R298	ORH1201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R2A1	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R2A2	ORH1005C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1e+007 OHM 1 / 16 W 1608 5.00%	
		R2A3	ORH1005C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1e+007 OHM 1 / 16 W 1608 5.00%	
		R2A5	ORH0912C622	O	O	RESISTOR,METAL GLAZED(CHIP)	91 OHM 1 / 16 W 1608 5.00% D	
		R2A6	ORH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R2E1	ORH0912C622	O	O	RESISTOR,METAL GLAZED(CHIP)	91 OHM 1 / 16 W 1608 5.00% D	
		R2E2	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R2E4	ORH3901C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 16 W 1608 5.00% D	
		R2E5	ORH3901C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R2E8	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R2E9	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R2F1	0RH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R2F2	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R2F3	0RH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R2F4	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R2F5	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R2F6	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R2F7	0RH4700C422	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 1.00% D	
		R402	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R403	0RH4700C622	O	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R404	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R405	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R406	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R407	0RH8201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R408	0RH5601C622	O	O	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R409	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R410	0RH6801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R411	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R412	0RH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R413	0RH8201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R414	0RH1502C622	O	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R415	0RH6801C622	O	O	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R416	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R417	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R418	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R419	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R420	0RH1001C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R421	0RH0752C622	O	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R422	0RH0752C622	O	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R423	0RH0752C622	O	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R424	0RH0752C622	O	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R425	0RH0752C622	O	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R426	0RH0752C622	O	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R427	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R428	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R429	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R430	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R431	0RH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R435	0RH0102D622	O	O	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 10 W 2012 5.00% D	
		R436	0RH0222C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R437	0RH0102D622	O	O	RESISTOR,METAL GLAZED(CHIP)	10 OHM 1 / 10 W 2012 5.00% D	
		R440	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R441	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R500	0RH1004C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	
		R501	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R504	0RH1000C422	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 1.00% D	
		R505	0RH1000C422	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 1.00% D	
		R506	0RH1000C422	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 1.00% D	
		R507	0RH1000C422	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 1.00% D	
		R508	0RH1000C422	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 1.00% D	
		R509	0RH1000C422	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 1.00% D	
		R510	0RH1002C422	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 1.00% D	
		R511	0RH1002C422	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 1.00% D	
		R513	0RH0332C622	O	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R514	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R515	ORH0222C622	O	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R516	ORH1100C622	O	O	RESISTOR,METAL GLAZED(CHIP)	110 OHM 1 / 16 W 1608 5.00% D	
		R517	ORH0752C622	O	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R518	ORH1100C622	O	O	RESISTOR,METAL GLAZED(CHIP)	110 OHM 1 / 16 W 1608 5.00% D	
		R519	ORH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R520	ORH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R533	ORH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R534	ORH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R535	ORH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R536	ORH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R537	ORH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R538	ORH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R539	ORH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R540	ORH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R558	ORH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R559	ORH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R560	ORH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R561	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R562	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R563	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R564	ORH0752C622	O	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R565	ORH0752C622	O	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R566	ORH0752C622	O	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R567	ORH0752C622	O	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R568	ORH0752C622	O	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R569	ORH0752C622	O	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R570	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R599	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R5A5	ORH4702C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R5A6	ORH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R5A7	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R5A8	ORH0000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R5A9	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R5B1	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R5B2	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R5B3	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R5B4	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R5B6	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R5B7	ORH0472C622	O	O	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R5C1	ORH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R5C2	ORH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R5C3	ORH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R5C4	ORH1000C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R5C5	ORH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R651	ORD0752F608	O	O	RESISTOR,FIXED CARBON FILM	75 OHM 1/6 W 5.00% TA26	
		R652	ORD4700F608	O	O	RESISTOR,FIXED CARBON FILM	470 OHM 1/6 W 5% TA26	
		R653	ORD1003F608	O	O	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R654	ORD4700F608	O	O	RESISTOR,FIXED CARBON FILM	470 OHM 1/6 W 5% TA26	
		R655	ORD0752F608	O	O	RESISTOR,FIXED CARBON FILM	75 OHM 1/6 W 5.00% TA26	
		R656	ORD1003F608	O	O	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R657	ORD2200F608	O	O	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R658	ORD1003F608	O	O	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R659	ORD2200F608	O	O	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R901	ORH6800C622	O	O	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R902	ORH8200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	820 OHM 1 / 16 W 1608 5.00% D	
		R903	ORH1201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA.NO	PART NO(LG)	A	B	DESCRIPTION	SPECIFICATION	REMARKS
		R904	0RH1501C622	O	O	RESISTOR,METAL GLAZED(CHIP)	1.5K OHM 1 / 16 W 1608 5.00% D	
		R905	0RH2201C622	O	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R906	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R907	0RH4701C622	O	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R908	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R909	0RH1002C622	O	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R910	0RH3301C622	O	O	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R911	0RH3300C622	O	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R912	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R913	0RH2200C622	O	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R914	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R915	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R916	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R917	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R918	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R919	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R920	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R921	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R922	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R923	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R924	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R925	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R926	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R927	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R928	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R929	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R930	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R931	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R932	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R933	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R934	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R935	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R936	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R937	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R938	0RH1003C622	O	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R944	0RH0000C622		O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R951	0RH1000C622		O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R952	0RH1000C622		O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		RC901	6712R1038GA		O	REMOTE CONTROLLER RECEIVER	TSOP2438SB1 VISHAY 38KHZ 10.2M	
		RC901	6712R1038GA	O		REMOTE CONTROLLER RECEIVER	TSOP2438SB1 VISHAY 38KHZ 10.2M	
		X201	6212AA2200E	O	O	RESONATOR,CRYSTAL	HC-49S CSC(SSANGTAI) 20.000000	
		X501	6202R-BL06C	O	O	RESONATOR,CRYSTAL	HC-49/S BUBANG 27MHZ 20PPM 1	
		X901	6212BA3004A	O	O	RESONATOR,CERAMIC	CSTLS6M00G53-A0 MURATA 6MHZ +/-	
		ZD101	0DZ560009CJ	O	O	DIODE,ZENERS	GDZJ5.6B 26MM GRANDE TP26 DO34	
		ZD102	0DZ332609FB	O	O	DIODE,ZENERS	GDZJ3.3B 26MM GRANDE TP26 DO34	

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