Shinco[®] SERVICE MANUAL MODEL DVD-2610

CAUTION: Before servicing this chassis, read the "PRODUCT SAFETY SERVICE FOR VIDEO PRODUCTS" section on page 2 of this manual.

DVD and CD PLAYER







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PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS

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

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

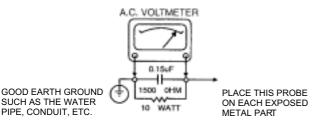
WHILE SERVICING, USE AN ISOLATION TRANSFORMER FOR PROTECTION FROM A.C. LINE SHOCK.

SAFETY CHECKS

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

SUBJECT: FIRE & SHOCK HAZARD

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



SUBJECT GRAPHIC SYMBOLS

PIPE, CONDUIT, ETC



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



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

SUBJECT: X-RADIATION

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

SUBJECT: IMPLOSION

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

SUBJECT: TIPS ON PROPER INSTALLATION

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

SERVICING PRECAUTIONS

CAUTION: Before servicing the DVD covered by this service data and its supplements and ADDENDUMS, 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 publications, always follow the safety precautions.

Remember Safety First:

General Servicing Precautions

- 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.
- 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.
- Do not defeat any plug/socket B+ voltage interlocks with witch instruments covered by this service manual might be equipped.
- Do not apply AC power to this DVD and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
- 6. Always connect test instrument ground lead to the appropriate ground before connection the test instrument positive lead. Always remove the test instrument ground lead last.

Insulation Checking Procedure

Disconnect the attachment plug trom 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

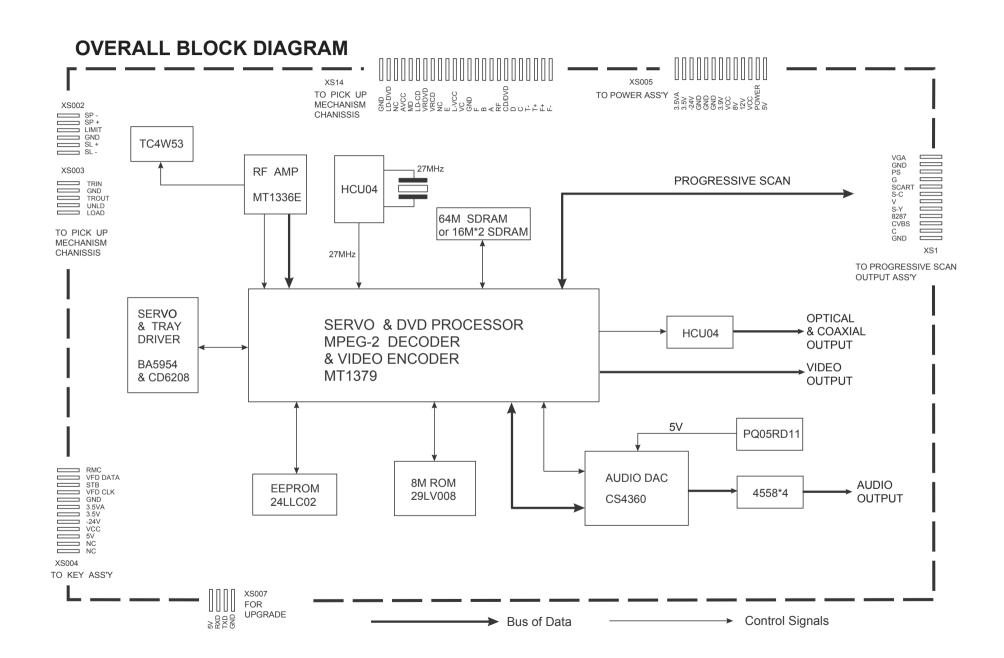
Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor chip components.

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

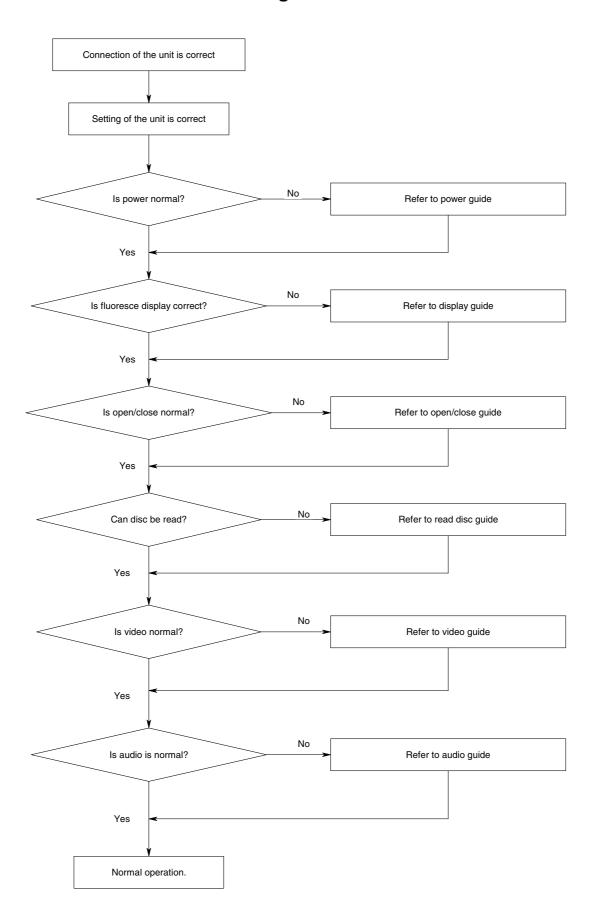
- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
- After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum toil, to prevent electrostatic charge buildup or exposure of the assembly.
- Use only a GROUNDED-tip soldering iron to solder or unsolder ES devices.
- 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.
- Do not use freon-propelled chemicals. These can generate electrical charge sufficient to damage ES devices.
- 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.)
- 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.

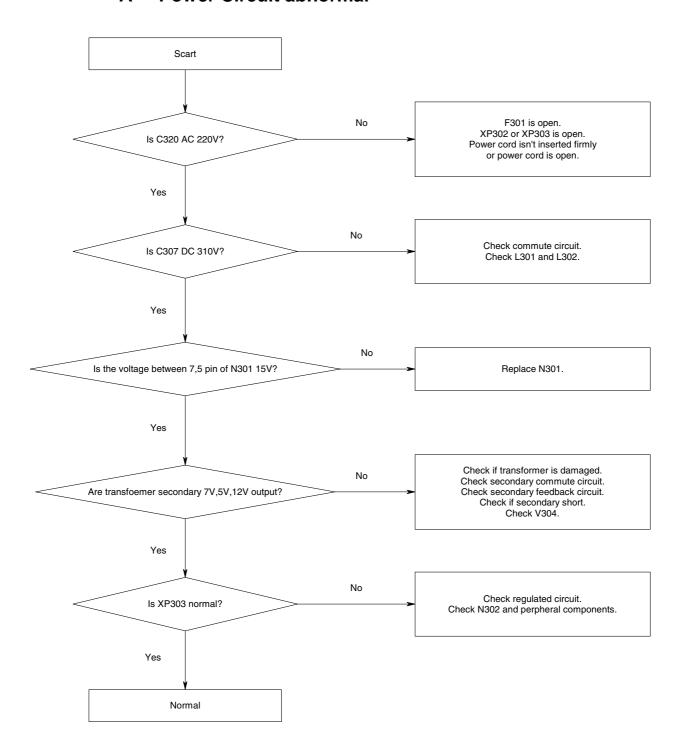
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Normally harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)



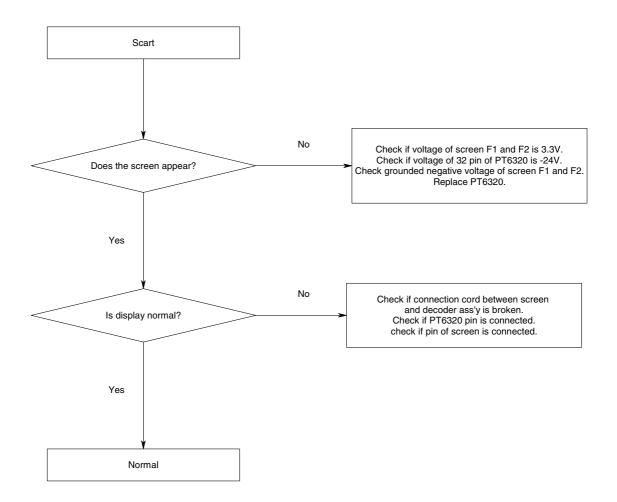
Electrical Trouble Shooting Guide



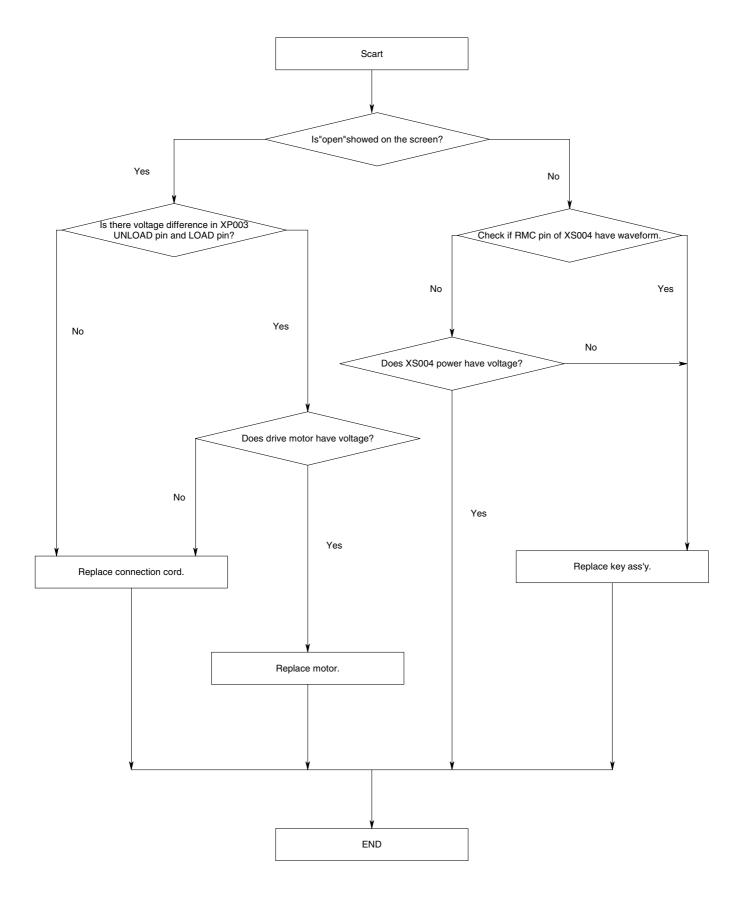
A Power Circuit abnormal



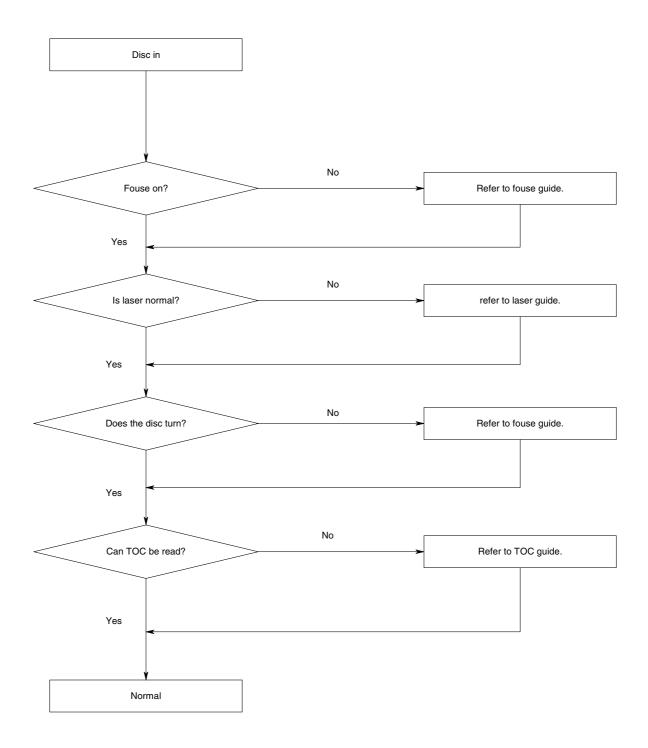
B Display abnormal



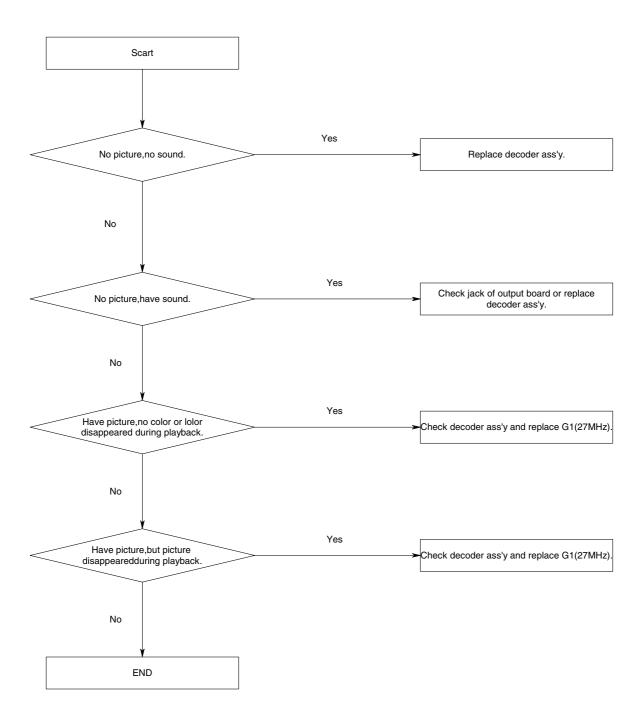
C Open/close abnormal



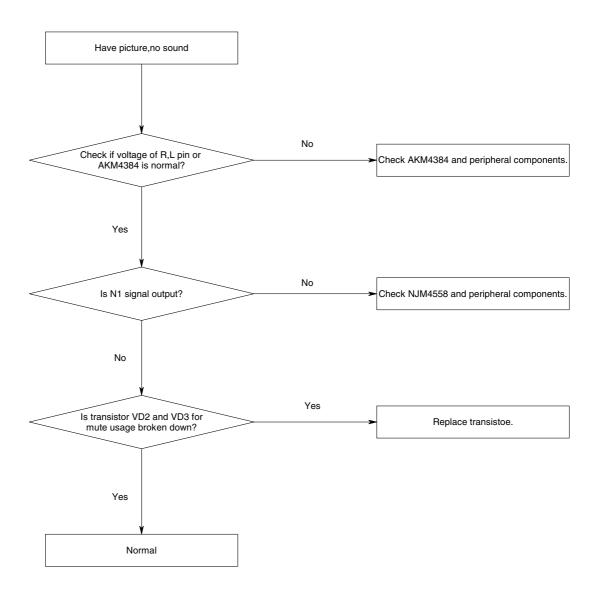
D Read disc abnormal



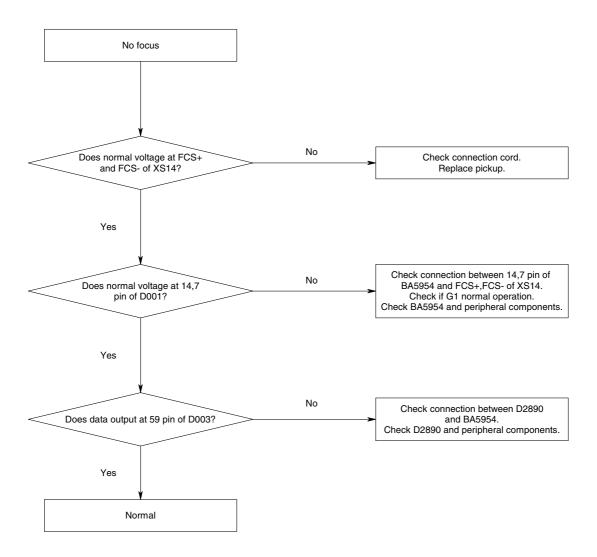
E Video abnormal



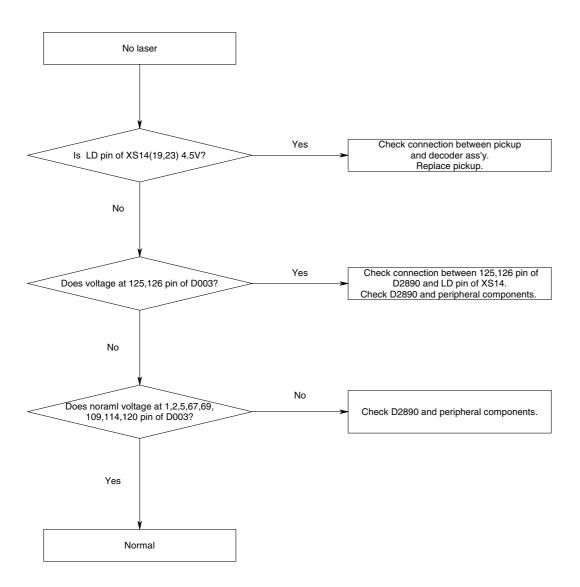
F Audio abnormal



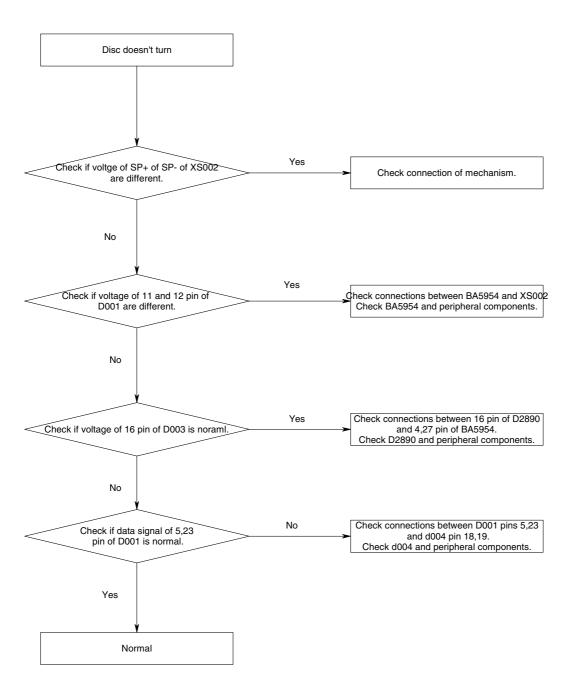
G Focus abnormal



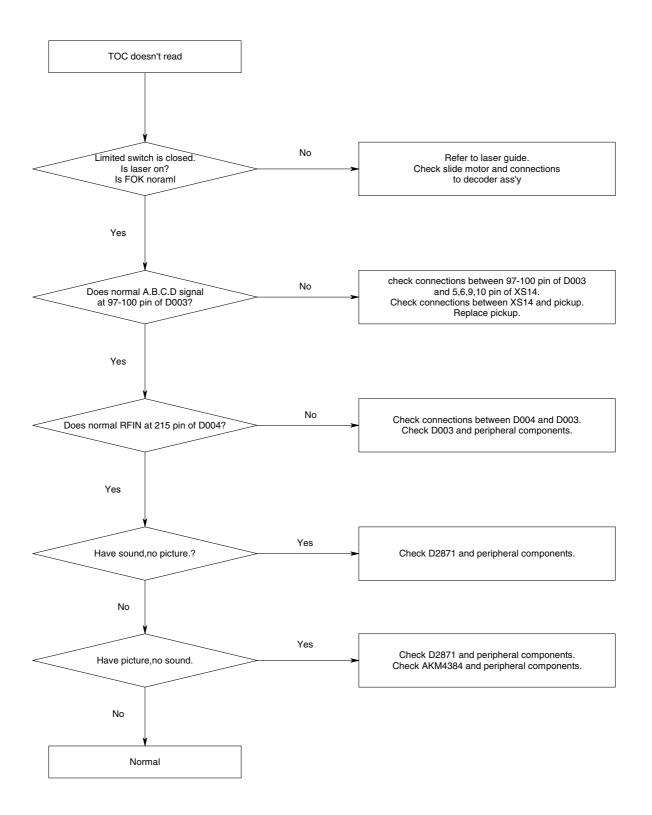
H Laser abnormal

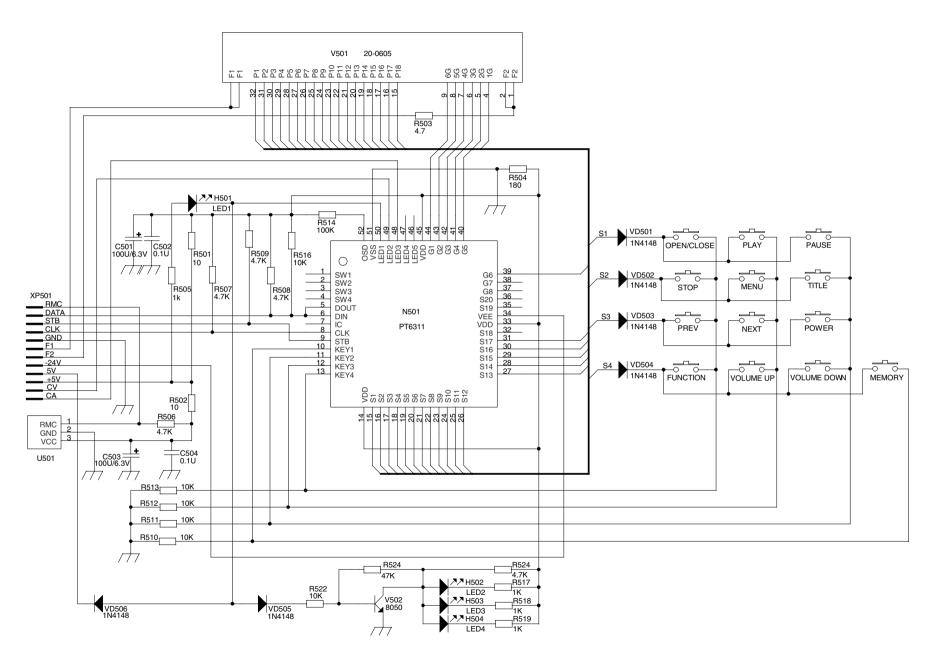


I Turn abnormal

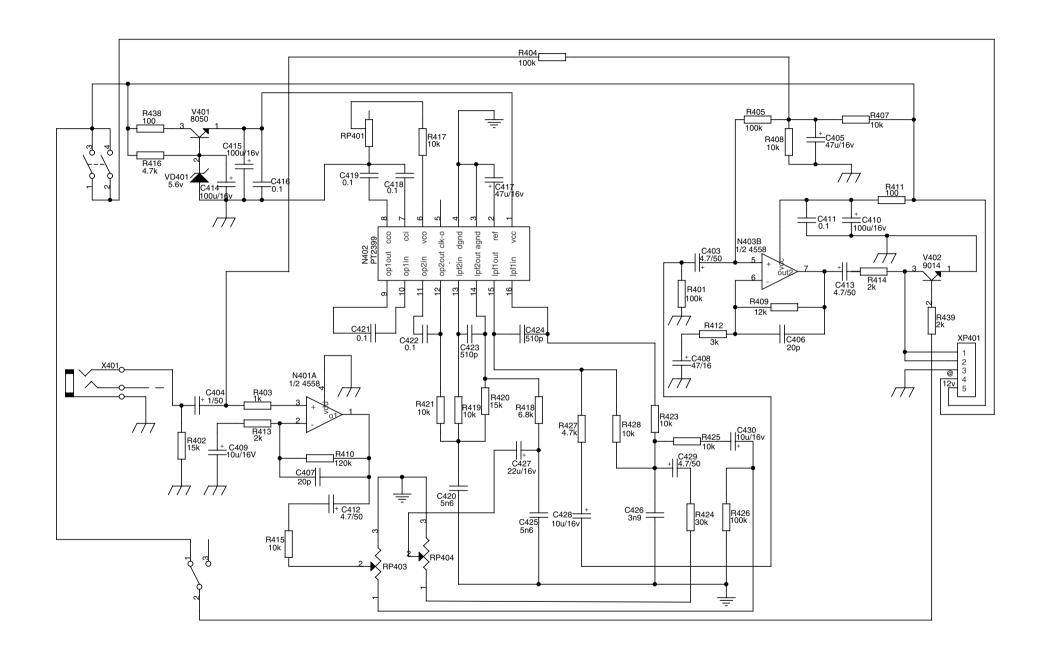


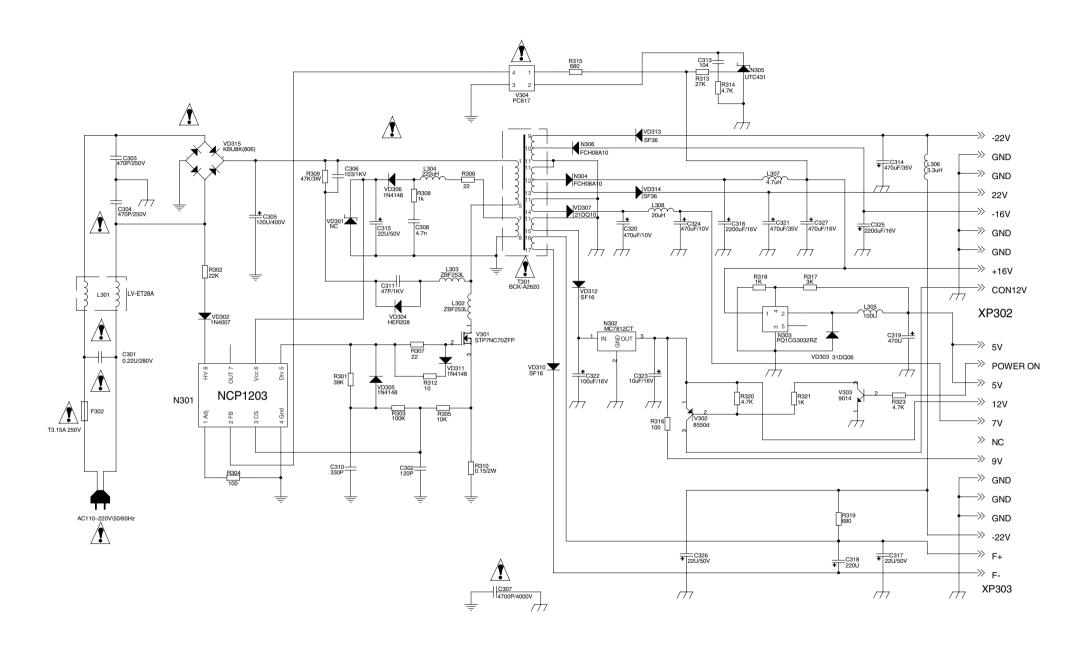
J TOC abnormal



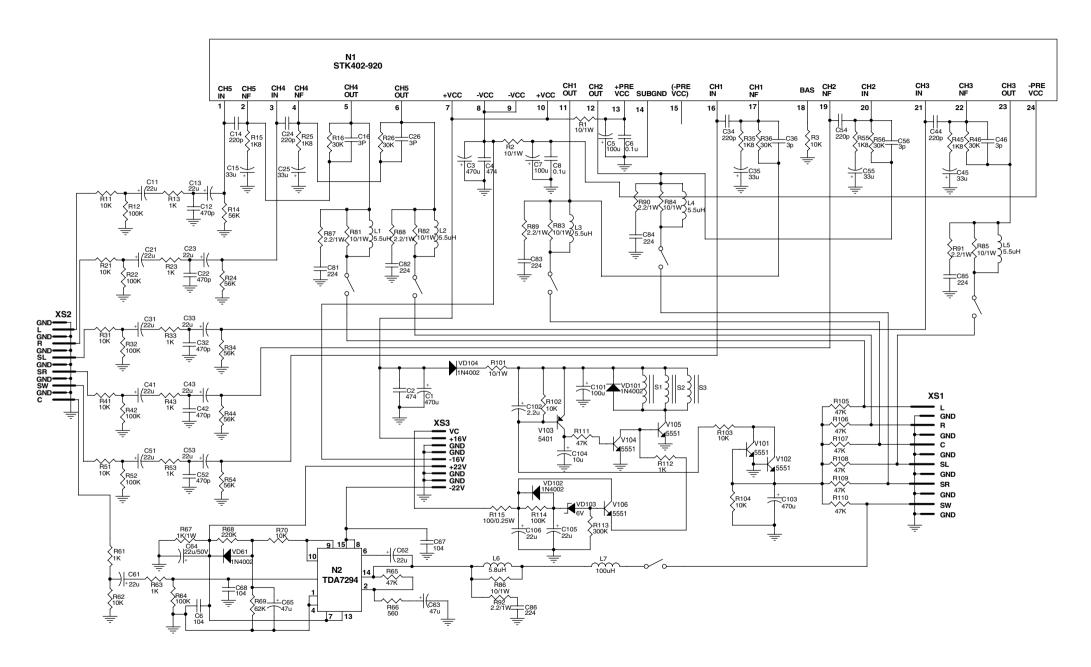


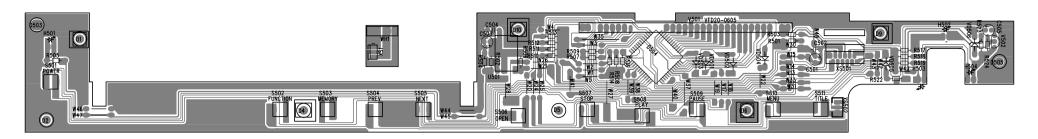
DVD2610 KEY CIRCUIT DIAGRAM



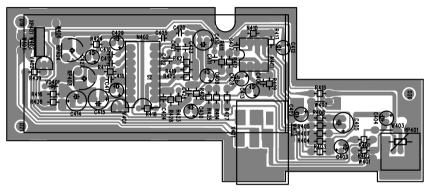


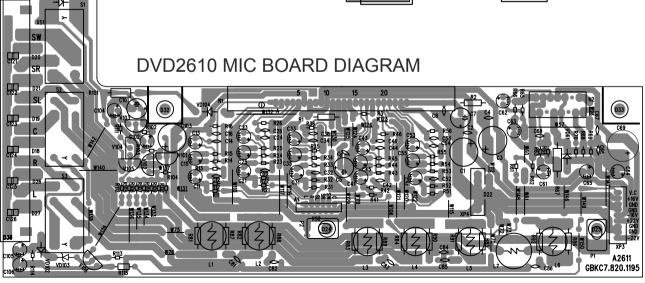
AD2620 POWER CIRCUIT DIAGRAM



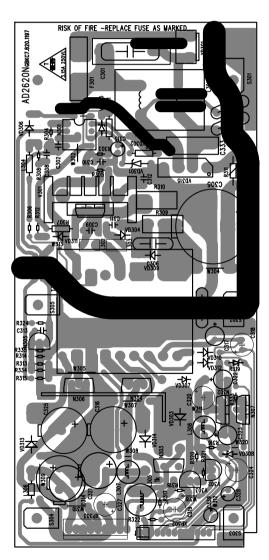


DVD2610 KEY BOARD DIAGRAM

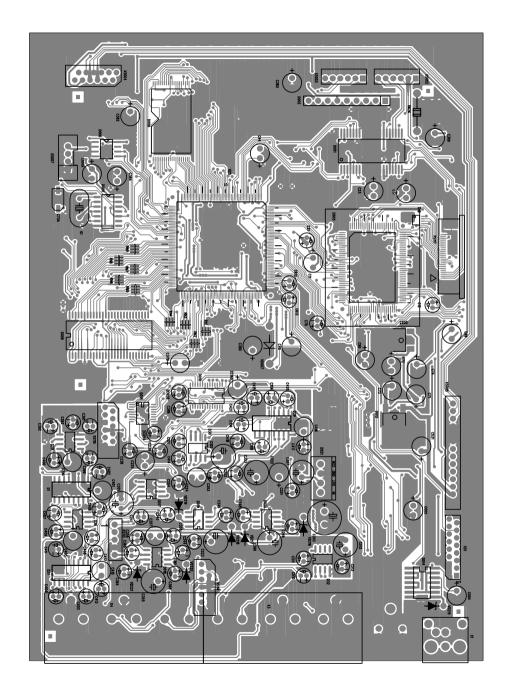


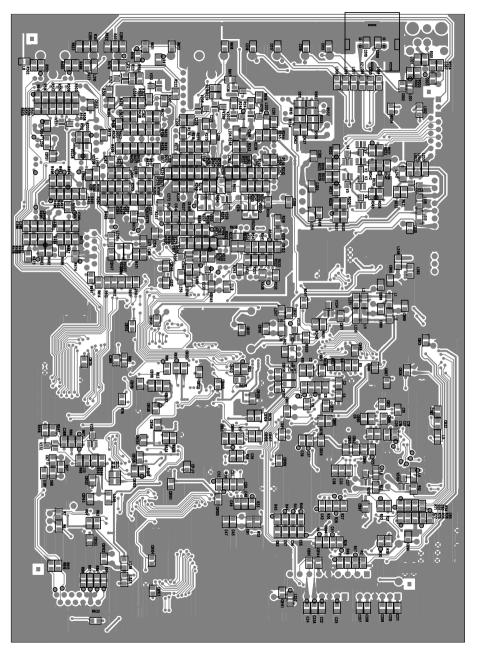






AD2620 POWER BOARD DIAGRAM





DHB2698M1 DECODER BOARD DIAGRAM

ELECTRICAL PARTS LIST

PART No.	PART NAME	Q'TY			
	DVD2610				
21224	DHB2698M1 DECODER ASS'Y	1			
750JSK	DVD750 ANTENNA ASS'Y	1			
S7427-1	AD2620NAH POWER ASS'Y	1			
S7423	A2611 AMP ASS'Y	1			
S7340-2	DVD2610KH(L) KEY ASS'Y	1			
S7358	D2610M MIC ASS'Y	1			
S2865	SP-2610 SPEAKER ASS'Y	1			
00960	TN100 RECEIVER	1			
S2701	7# BATTERY	2			
S2672	VDE POWER CORD	1			
S8040	KHL-233C LOADING ASS'Y	1			
S3024	POWER CORD HOLE	1			
S1549g	DVD2610 OWNER MANUAL	1			
S4308	A300 FM ANTENNA	1			
S3021a	RCA CORD AUDIO	1			
S3022a	RCA CORD VIDEO	1			
S3142	CC-1.0×12×100	1			
S3202	CC-1.0×12×170	1			
S3251a	CC-0.5×24×210-N	1			
S3467	KHL-DV34 LOADING WIRE	1			
S06034C	RC-380HT REMOTE CONTROLLER (WHITE)	1			
S2868	SL-2610 SUBWOOFER SPEAKER	1			

REF No.	PART No. PART NAME		
DVD2610KH(L) KEY ASS'Y			
S501	G6434	TOUCH EVQ21504M(4.5mm)	
S502	G6434	TOUCH EVQ21504M(4.5mm)	
S503	G6434	TOUCH EVQ21504M(4.5mm)	
S504	G6434	TOUCH EVQ21504M(4.5mm)	
S505	G6434	TOUCH EVQ21504M(4.5mm)	
S506	G6434	TOUCH EVQ21504M(4.5mm)	
S507	G6434	TOUCH EVQ21504M(4.5mm)	
S508	G6434	TOUCH EVQ21504M(4.5mm)	
S509	G6434	TOUCH EVQ21504M(4.5mm)	
S510	G6434	TOUCH EVQ21504M(4.5mm)	
S511	G6434	TOUCH EVQ21504M(4.5mm)	
C501	a3540	CD110-6.3V-100uF±20%	
C502	a3304	CT4D-2F4-63V-0.1uF-S	
C503	a3540	CD110-6.3V-100uF±20%	
C504	a3304	CT4D-2F4-63V-0.1uF-S	
C505	a3450	CD11CX-22uF-M-16V	
R501	G0705	RT13-0.167W-10±5%	
R502	G0705	RT13-0.167W-10±5%	
R503	G0704	RT13-0.167W-4.7±5%	
R504	G0714	RT13-0.167W-180±5%	
R505	G0719	RT13-0.167W-1K±5%	
R506	G0728	RT13-0.167W-4.7K±5%	
R507	G0728	RT13-0.167W-4.7K±5%	
R508	G0728	RT13-0.167W-4.7K±5%	
R509	G0728	RT13-0.167W-4.7K±5%	
R510	G0735	RT13-0.167W-10K±5%	
R511	G0735	RT13-0.167W-10K±5%	
R512	G0735	RT13-0.167W-10K±5%	
R513	G0735	RT13-0.167W-10K±5%	
R514	G0784	RT13-0.167W-56K±5%	
R516	G0735	RT13-0.167W-10K±5%	
R517	G0714	RT13-0.167W-180±5%	
R518	G0714	RT13-0.167W-180±5%	
R519	G0714	RT13-0.167W-180±5%	
R522	G0738	RT13-0.167W-15K±5%	
R523	G0728	RT13-0.167W-4.7K±5%	
VD501	a5004	1N4148	
VD502	a5004	1N4148	
VD503	a5004	1N4148	

VD504 a5004 IN4148 VD505 a5004 IN4148 VD506 a1134 HZ4B2 LED501 a1500 RED LED H502 a1601 BLUE LED H503 a1601 BLUE LED H504 a1601 BLUE LED V502 a5009 C9014C U501 a6444 HS0038A2 RECEIVER D501 P4399 PT6311 VE501 a6918a VFD20-0605A XS502 P6783 12 PINS SOCKET XS505 a9061 B-3B-PH SOCKET WH501 a6216 KHX3-3WHD D2610M MIC ASS'Y RESISTOR R401 G0753 RT13-0.167W-100K±5% R402 G0738 RT13-0.167W-15K±5% R403 G0719 RT13-0.167W-10K±5% R404 G0753 RT13-0.167W-10K±5% R405 G0738 RT13-0.167W-10K±5% R409 G0737 RT13-0.167W-10K±5% R410	REF No.	PART No.	PART NAME	
VD506 a1134 HZ4B2 LED501 a1500 RED LED H502 a1601 BLUE LED H503 a1601 BLUE LED H504 a1601 BLUE LED V502 a5009 C9014C U501 a6444 HS0038A2 RECEIVER D501 P4399 PT6311 VE501 a6918a VFD20-0605A XS502 P6783 12 PINS SOCKET XS505 a9061 B-3B-PH SOCKET WH501 a6216 KHX3-3WHD D2610M MIC ASS'Y RESISTOR R401 G0753 RT13-0.167W-100K±5% R402 G0738 RT13-0.167W-100K±5% R403 G0719 RT13-0.167W-100K±5% R404 G0753 RT13-0.167W-100K±5% R405 G0733 RT13-0.167W-10K±5% R406 G0735 RT13-0.167W-10K±5% R409 G0737 RT13-0.167W-10K±5% R410 G0754 RT13-0.167W-10K±5%	VD504	a5004	1N4148	
LED501 a1500 RED LED H502 a1601 BLUE LED H503 a1601 BLUE LED H504 a1601 BLUE LED V502 a5009 C9014C U501 a6444 HS0038A2 RECEIVER D501 P4399 PT6311 VE501 a6918a VFD20-0605A XS502 P6783 12 PINS SOCKET XS505 a9061 B-3B-PH SOCKET WH501 a6216 KHX3-3WHD D2610M MIC ASS'Y RESISTOR R401 G0753 RT13-0.167W-100K±5% R402 G0738 RT13-0.167W-10K±5% R403 G0719 RT13-0.167W-10K±5% R404 G0753 RT13-0.167W-10K±5% R405 G0753 RT13-0.167W-10K±5% R406 G0753 RT13-0.167W-10K±5% R407 G0735 RT13-0.167W-10K±5% R408 G0737 RT13-0.167W-10K±5% R410 G0754 RT13-0.167W-10K±5%	VD505	a5004	1N4148	
H502 a1601 BLUE LED H503 a1601 BLUE LED H504 a1601 BLUE LED V502 a5009 C9014C U501 a6444 HS0038A2 RECEIVER D501 P4399 PT6311 VE501 a6918a VFD20-0605A XS502 P6783 12 PINS SOCKET XS505 a9061 B-3B-PH SOCKET WH501 a6216 KHX3-3WHD D2610M MIC ASS'Y RESISTOR R401 G0753 RT13-0.167W-100K±5% R402 G0738 RT13-0.167W-10K±5% R403 G0719 RT13-0.167W-10K±5% R404 G0753 RT13-0.167W-10K±5% R405 G0753 RT13-0.167W-10K±5% R408 G0735 RT13-0.167W-10K±5% R409 G0737 RT13-0.167W-10K±5% R410 G0754 RT13-0.167W-12K±5% R411 G0712 RT13-0.167W-3K±5% R412 G0724 RT13-0.167W-3K±5% <td>VD506</td> <td>a1134</td> <td>HZ4B2</td>	VD506	a1134	HZ4B2	
H503 a1601 BLUE LED V502 a5009 C9014C U501 a6444 HS0038A2 RECEIVER D501 P4399 PT6311 VE501 a6918a VFD20-0605A XS502 P6783 12 PINS SOCKET XS505 a9061 B-3B-PH SOCKET WH501 a6216 KHX3-3WHD D2610M MIC ASS'Y RESISTOR R401 G0753 RT13-0.167W-100K±5% R402 G0738 RT13-0.167W-10K±5% R403 G0719 RT13-0.167W-10K±5% R404 G0753 RT13-0.167W-10K±5% R405 G0753 RT13-0.167W-10K±5% R406 G0753 RT13-0.167W-10K±5% R407 G0735 RT13-0.167W-10K±5% R408 G0735 RT13-0.167W-10K±5% R410 G0754 RT13-0.167W-10K±5% R411 G0712 RT13-0.167W-12K±5% R412 G0724 RT13-0.167W-3K±5% R413 G0721 RT13-0.167	LED501	a1500	RED LED	
H504 a1601 BLUE LED V502 a5009 C9014C U501 a6444 HS0038A2 RECEIVER D501 P4399 PT6311 VE501 a6918a VFD20-0605A XS502 P6783 12 PINS SOCKET XS505 a9061 B-3B-PH SOCKET WH501 a6216 KHX3-3WHD D2610M MIC ASS'Y RESISTOR R401 G0753 RT13-0.167W-100K±5% R402 G0738 RT13-0.167W-10K±5% R403 G0719 RT13-0.167W-10K±5% R404 G0753 RT13-0.167W-10K±5% R405 G0753 RT13-0.167W-10K±5% R406 G0735 RT13-0.167W-10K±5% R409 G0737 RT13-0.167W-10K±5% R410 G0754 RT13-0.167W-12K±5% R411 G0712 RT13-0.167W-10E±5% R412 G0724 RT13-0.167W-10E±5% R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167	H502	a1601	BLUE LED	
V502 a5009 C9014C U501 a6444 HS0038A2 RECEIVER D501 P4399 PT6311 VE501 a6918a VFD20-0605A XS502 P6783 12 PINS SOCKET XS505 a9061 B-3B-PH SOCKET WH501 a6216 KHX3-3WHD D2610M MIC ASS'Y RESISTOR R401 G0753 RT13-0.167W-100K±5% R402 G0738 RT13-0.167W-100K±5% R403 G0719 RT13-0.167W-10K±5% R404 G0753 RT13-0.167W-10K±5% R405 G0735 RT13-0.167W-10K±5% R406 G0735 RT13-0.167W-10K±5% R408 G0735 RT13-0.167W-10K±5% R410 G0754 RT13-0.167W-12K±5% R411 G0712 RT13-0.167W-10K±5% R412 G0724 RT13-0.167W-2K±5% R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167W-10K±5% R416 G0735	H503	a1601	BLUE LED	
U501 a6444 HS0038A2 RECEIVER D501 P4399 PT6311 VE501 a6918a VFD20-0605A XS502 P6783 12 PINS SOCKET XS505 a9061 B-3B-PH SOCKET WH501 a6216 KHX3-3WHD D2610M MIC ASS'Y RESISTOR R401 G0753 RT13-0.167W-100K±5% R402 G0738 RT13-0.167W-10K±5% R403 G0719 RT13-0.167W-10K±5% R404 G0753 RT13-0.167W-100K±5% R405 G0753 RT13-0.167W-10K±5% R406 G0735 RT13-0.167W-10K±5% R408 G0735 RT13-0.167W-10K±5% R409 G0737 RT13-0.167W-10K±5% R410 G0754 RT13-0.167W-12K±5% R411 G0712 RT13-0.167W-100±5% R412 G0724 RT13-0.167W-2K±5% R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167W-10K±5% R416 G0735	H504	a1601	BLUE LED	
D501 P4399 PT6311 VE501 a6918a VFD20-0605A XS502 P6783 12 PINS SOCKET XS505 a9061 B-3B-PH SOCKET WH501 a6216 KHX3-3WHD D2610M MIC ASS'Y RESISTOR R401 G0753 RT13-0.167W-100K±5% R402 G0738 RT13-0.167W-10K±5% R403 G0719 RT13-0.167W-10K±5% R404 G0753 RT13-0.167W-100K±5% R405 G0753 RT13-0.167W-10K±5% R407 G0735 RT13-0.167W-10K±5% R408 G0735 RT13-0.167W-10K±5% R409 G0737 RT13-0.167W-12K±5% R410 G0754 RT13-0.167W-12K±5% R411 G0712 RT13-0.167W-10X±5% R412 G0724 RT13-0.167W-2K±5% R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167W-10K±5% R416 G0735 RT13-0.167W-10K±5% R417 G0735	V502	a5009	C9014C	
VE501 a6918a VFD20-0605A XS502 P6783 12 PINS SOCKET XS505 a9061 B-3B-PH SOCKET WH501 a6216 KHX3-3WHD D2610M MIC ASS'Y RESISTOR R401 G0753 RT13-0.167W-100K±5% R402 G0738 RT13-0.167W-15K±5% R403 G0719 RT13-0.167W-10K±5% R404 G0753 RT13-0.167W-100K±5% R405 G0753 RT13-0.167W-10K±5% R407 G0735 RT13-0.167W-10K±5% R408 G0735 RT13-0.167W-10K±5% R410 G0754 RT13-0.167W-12K±5% R411 G0754 RT13-0.167W-100±5% R412 G0724 RT13-0.167W-10K±5% R413 G0721 RT13-0.167W-10K±5% R414 G0721 RT13-0.167W-2K±5% R415 G0735 RT13-0.167W-10K±5% R416 G0728 RT13-0.167W-10K±5% R419 G0735 RT13-0.167W-10K±5% R420 <	U501	a6444	HS0038A2 RECEIVER	
XS502 P6783 12 PINS SOCKET XS505 a9061 B-3B-PH SOCKET WH501 a6216 KHX3-3WHD D2610M MIC ASS'Y RESISTOR R401 G0753 RT13-0.167W-100K±5% R402 G0738 RT13-0.167W-15K±5% R403 G0719 RT13-0.167W-15K±5% R404 G0753 RT13-0.167W-100K±5% R405 G0753 RT13-0.167W-10K±5% R407 G0735 RT13-0.167W-10K±5% R408 G0735 RT13-0.167W-10K±5% R409 G0737 RT13-0.167W-12K±5% R410 G0754 RT13-0.167W-120K±5% R411 G0712 RT13-0.167W-100±5% R412 G0724 RT13-0.167W-10K±5% R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167W-10K±5% R415 G0735 RT13-0.167W-10K±5% R416 G0735 RT13-0.167W-10K±5% R418 G0731 RT13-0.167W-10K±5% R420	D501	P4399	PT6311	
XS505 a9061 B-3B-PH SOCKET WH501 a6216 KHX3-3WHD D2610M MIC ASS'Y RESISTOR R401 G0753 RT13-0.167W-100K±5% R402 G0738 RT13-0.167W-15K±5% R403 G0719 RT13-0.167W-10K±5% R404 G0753 RT13-0.167W-100K±5% R405 G0753 RT13-0.167W-10K±5% R407 G0735 RT13-0.167W-10K±5% R408 G0735 RT13-0.167W-10K±5% R409 G0737 RT13-0.167W-120K±5% R410 G0754 RT13-0.167W-120K±5% R411 G0712 RT13-0.167W-100±5% R412 G0724 RT13-0.167W-10K±5% R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167W-2K±5% R415 G0735 RT13-0.167W-10K±5% R416 G0728 RT13-0.167W-10K±5% R418 G0731 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-10K±5% R421	VE501	a6918a	VFD20-0605A	
WH501 a6216 KHX3-3WHD D2610M MIC ASS'Y RESISTOR R401 G0753 RT13-0.167W-100K±5% R402 G0738 RT13-0.167W-15K±5% R403 G0719 RT13-0.167W-10K±5% R404 G0753 RT13-0.167W-100K±5% R405 G0753 RT13-0.167W-10K±5% R407 G0735 RT13-0.167W-10K±5% R408 G0735 RT13-0.167W-10K±5% R409 G0737 RT13-0.167W-120K±5% R410 G0754 RT13-0.167W-120K±5% R411 G0712 RT13-0.167W-100±5% R412 G0724 RT13-0.167W-3K±5% R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167W-2K±5% R415 G0735 RT13-0.167W-10K±5% R416 G0728 RT13-0.167W-10K±5% R418 G0731 RT13-0.167W-10K±5% R419 G0735 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-10K±5%	XS502	P6783	12 PINS SOCKET	
D2610M MIC ASS'Y RESISTOR R401 G0753 RT13-0.167W-100K±5% R402 G0738 RT13-0.167W-15K±5% R403 G0719 RT13-0.167W-10K±5% R404 G0753 RT13-0.167W-100K±5% R405 G0753 RT13-0.167W-10K±5% R407 G0735 RT13-0.167W-10K±5% R408 G0735 RT13-0.167W-10K±5% R409 G0737 RT13-0.167W-120K±5% R410 G0754 RT13-0.167W-120K±5% R411 G0712 RT13-0.167W-100±5% R412 G0724 RT13-0.167W-3K±5% R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167W-2K±5% R415 G0735 RT13-0.167W-10K±5% R416 G0728 RT13-0.167W-10K±5% R418 G0731 RT13-0.167W-10K±5% R419 G0735 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-10K±5%	XS505	a9061	B-3B-PH SOCKET	
RESISTOR R401 G0753 RT13-0.167W-100K±5% R402 G0738 RT13-0.167W-15K±5% R403 G0719 RT13-0.167W-1K±5% R404 G0753 RT13-0.167W-100K±5% R405 G0753 RT13-0.167W-100K±5% R407 G0735 RT13-0.167W-10K±5% R408 G0735 RT13-0.167W-10K±5% R409 G0737 RT13-0.167W-12K±5% R410 G0754 RT13-0.167W-12K±5% R411 G0712 RT13-0.167W-100±5% R412 G0724 RT13-0.167W-3K±5% R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167W-2K±5% R415 G0735 RT13-0.167W-10K±5% R416 G0728 RT13-0.167W-10K±5% R417 G0735 RT13-0.167W-4.7K±5% R418 G0731 RT13-0.167W-10K±5% R419 G0735 RT13-0.167W-10K±5% R419 G0735 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-10K±5% R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-10K±5% R424 G0743 RT13-0.167W-30K±5% R425 G0735 RT13-0.167W-30K±5% R425 G0735 RT13-0.167W-30K±5%	WH501	a6216	KHX3-3WHD	
R401 G0753 RT13-0.167W-100K±5% R402 G0738 RT13-0.167W-15K±5% R403 G0719 RT13-0.167W-10K±5% R404 G0753 RT13-0.167W-100K±5% R405 G0735 RT13-0.167W-10K±5% R407 G0735 RT13-0.167W-10K±5% R408 G0735 RT13-0.167W-10K±5% R409 G0737 RT13-0.167W-12K±5% R410 G0754 RT13-0.167W-12K±5% R411 G0712 RT13-0.167W-100±5% R412 G0724 RT13-0.167W-3K±5% R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167W-2K±5% R415 G0735 RT13-0.167W-10K±5% R416 G0728 RT13-0.167W-10K±5% R418 G0731 RT13-0.167W-10K±5% R419 G0735 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-10K±5% R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-10K±5% R424 G0		D261	OM MIC ASS'Y	
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R404 G0753 RT13-0.167W-100K±5% R405 G0753 RT13-0.167W-100K±5% R407 G0735 RT13-0.167W-10K±5% R408 G0735 RT13-0.167W-10K±5% R409 G0737 RT13-0.167W-12K±5% R410 G0754 RT13-0.167W-120K±5% R411 G0712 RT13-0.167W-100±5% R412 G0724 RT13-0.167W-3K±5% R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167W-2K±5% R415 G0735 RT13-0.167W-10K±5% R416 G0728 RT13-0.167W-10K±5% R417 G0735 RT13-0.167W-10K±5% R418 G0731 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-10K±5% R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-30K±5% R424 G0743 RT13-0.167W-10K±5% R425 G0735 RT13-0.167W-10K±5%	R402	G0738	RT13-0.167W-15K±5%	
R405 G0753 RT13-0.167W-100K±5% R407 G0735 RT13-0.167W-10K±5% R408 G0735 RT13-0.167W-10K±5% R409 G0737 RT13-0.167W-12K±5% R410 G0754 RT13-0.167W-120K±5% R411 G0712 RT13-0.167W-100±5% R412 G0724 RT13-0.167W-3K±5% R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167W-2K±5% R415 G0735 RT13-0.167W-10K±5% R416 G0728 RT13-0.167W-10K±5% R417 G0735 RT13-0.167W-10K±5% R418 G0731 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-10K±5% R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-30K±5% R424 G0743 RT13-0.167W-30K±5% R425 G0735 RT13-0.167W-10K±5%	R403	G0719	RT13-0.167W-1K±5%	
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R408 G0735 RT13-0.167W-10K±5% R409 G0737 RT13-0.167W-12K±5% R410 G0754 RT13-0.167W-120K±5% R411 G0712 RT13-0.167W-100±5% R412 G0724 RT13-0.167W-3K±5% R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167W-2K±5% R415 G0735 RT13-0.167W-10K±5% R416 G0728 RT13-0.167W-10K±5% R417 G0735 RT13-0.167W-10K±5% R418 G0731 RT13-0.167W-10K±5% R419 G0735 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-10K±5% R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-30K±5% R424 G0743 RT13-0.167W-10K±5% R425 G0735 RT13-0.167W-10K±5%	R405	G0753	RT13-0.167W-100K±5%	
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R410 G0754 RT13-0.167W-120K±5% R411 G0712 RT13-0.167W-100±5% R412 G0724 RT13-0.167W-3K±5% R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167W-2K±5% R415 G0735 RT13-0.167W-10K±5% R416 G0728 RT13-0.167W-10K±5% R417 G0735 RT13-0.167W-10K±5% R418 G0731 RT13-0.167W-10K±5% R419 G0735 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-10K±5% R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-30K±5% R424 G0743 RT13-0.167W-10K±5% R425 G0735 RT13-0.167W-10K±5%	R408	G0735	RT13-0.167W-10K±5%	
R411 G0712 RT13-0.167W-100±5% R412 G0724 RT13-0.167W-3K±5% R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167W-2K±5% R415 G0735 RT13-0.167W-10K±5% R416 G0728 RT13-0.167W-10K±5% R417 G0735 RT13-0.167W-10K±5% R418 G0731 RT13-0.167W-10K±5% R419 G0735 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-10K±5% R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-30K±5% R424 G0743 RT13-0.167W-30K±5% R425 G0735 RT13-0.167W-10K±5%	R409	G0737	RT13-0.167W-12K±5%	
R412 G0724 RT13-0.167W-3K±5% R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167W-2K±5% R415 G0735 RT13-0.167W-10K±5% R416 G0728 RT13-0.167W-4.7K±5% R417 G0735 RT13-0.167W-10K±5% R418 G0731 RT13-0.167W-10K±5% R419 G0735 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-10K±5% R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-30K±5% R424 G0743 RT13-0.167W-30K±5% R425 G0735 RT13-0.167W-10K±5%	R410	G0754	RT13-0.167W-120K±5%	
R413 G0721 RT13-0.167W-2K±5% R414 G0721 RT13-0.167W-2K±5% R415 G0735 RT13-0.167W-10K±5% R416 G0728 RT13-0.167W-4.7K±5% R417 G0735 RT13-0.167W-10K±5% R418 G0731 RT13-0.167W-10K±5% R419 G0735 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-10K±5% R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-30K±5% R424 G0743 RT13-0.167W-30K±5% R425 G0735 RT13-0.167W-10K±5%	R411	G0712	RT13-0.167W-100±5%	
R414 G0721 RT13-0.167W-2K±5% R415 G0735 RT13-0.167W-10K±5% R416 G0728 RT13-0.167W-4.7K±5% R417 G0735 RT13-0.167W-10K±5% R418 G0731 RT13-0.167W-6.8K±5% R419 G0735 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-15K±5% R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-30K±5% R424 G0743 RT13-0.167W-30K±5% R425 G0735 RT13-0.167W-10K±5%	R412	G0724	RT13-0.167W-3K±5%	
R415 G0735 RT13-0.167W-10K±5% R416 G0728 RT13-0.167W-4.7K±5% R417 G0735 RT13-0.167W-10K±5% R418 G0731 RT13-0.167W-6.8K±5% R419 G0735 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-15K±5% R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-10K±5% R424 G0743 RT13-0.167W-30K±5% R425 G0735 RT13-0.167W-10K±5%	R413	G0721	RT13-0.167W-2K±5%	
R416 G0728 RT13-0.167W-4.7K±5% R417 G0735 RT13-0.167W-10K±5% R418 G0731 RT13-0.167W-6.8K±5% R419 G0735 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-15K±5% R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-10K±5% R424 G0743 RT13-0.167W-30K±5% R425 G0735 RT13-0.167W-10K±5%	R414	G0721	RT13-0.167W-2K±5%	
R417 G0735 RT13-0.167W-10K±5% R418 G0731 RT13-0.167W-6.8K±5% R419 G0735 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-15K±5% R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-10K±5% R424 G0743 RT13-0.167W-30K±5% R425 G0735 RT13-0.167W-10K±5%	R415	G0735	RT13-0.167W-10K±5%	
R418 G0731 RT13-0.167W-6.8K±5% R419 G0735 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-15K±5% R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-10K±5% R424 G0743 RT13-0.167W-30K±5% R425 G0735 RT13-0.167W-10K±5%	R416	G0728	RT13-0.167W-4.7K±5%	
R419 G0735 RT13-0.167W-10K±5% R420 G0738 RT13-0.167W-15K±5% R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-10K±5% R424 G0743 RT13-0.167W-30K±5% R425 G0735 RT13-0.167W-10K±5%	R417	G0735	RT13-0.167W-10K±5%	
R420 G0738 RT13-0.167W-15K±5% R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-10K±5% R424 G0743 RT13-0.167W-30K±5% R425 G0735 RT13-0.167W-10K±5%	R418	G0731	RT13-0.167W-6.8K±5%	
R421 G0735 RT13-0.167W-10K±5% R423 G0735 RT13-0.167W-10K±5% R424 G0743 RT13-0.167W-30K±5% R425 G0735 RT13-0.167W-10K±5%	R419	G0735	RT13-0.167W-10K±5%	
R423 G0735 RT13-0.167W-10K±5% R424 G0743 RT13-0.167W-30K±5% R425 G0735 RT13-0.167W-10K±5%	R420	G0738	RT13-0.167W-15K±5%	
R424 G0743 RT13-0.167W-30K±5% R425 G0735 RT13-0.167W-10K±5%	R421	G0735	RT13-0.167W-10K±5%	
R425 G0735 RT13-0.167W-10K±5%	R423	G0735	RT13-0.167W-10K±5%	
	R424	G0743	RT13-0.167W-30K±5%	
R427 G0728 RT13-0.167W-4.7K±5%	R425	G0735	RT13-0.167W-10K±5%	
· · · · · · · · · · · · · · · · · · ·	R427	G0728	RT13-0.167W-4.7K±5%	

REF No.	PART No.	PART NAME
R428	G0735	RT13-0.167W-10K±5%
R438	G0712	RT13-0.167W-100±5%
R439	G0721	RT13-0.167W-2K±5%
	R	HEOSTAT
RP401	a0638b	WH9011-50KB-F20
RP403	a0511	WH06-2-22K
RP404	a0640	WH0615-47K
	C	APACITOR
C403	a3508	CD110-16V-4.7uF-M
C404	a3505	CD110-1u-M-16V
C405	a3512	CD110-47u-M-16V
C406	a2015	CC1-63V-05B-20K-CH
C407	a2015	CC1-63V-05B-20K-CH
C408	a3512	CD110-47u-M-16V
C409	a3509	CD110-16V-10u-M
C410	a3513	CD110X-16V-100u-M
C411	a3304	CT4D-2F4-63V-0.1uF-S
C412	a3508	CD110-16V-4.7uF-M
C413	a3508	CD110-16V-4.7uF-M
C414	a3513	CD110X-16V-100u-M
C415	a3513	CD110X-16V-100u-M
C416	a3304	CT4D-2F4-63V-0.1uF-S
C417	a3512	CD110-16V-47uF-M
C418	a3304	CT4D-2F4-63V-0.1uF-S
C419	a3304	CT4D-2F4-63V-0.1uF-S
C420	a3044	CL11-100V-5600P-K
C421	a3304	CT4D-2F4-63V-0.1uF-S
C422	a3304	CT4D-2F4-63V-0.1uF-S
C423	a2038	CC1-63V-10B-511K-SL
C424	a2038	CC1-63V-10B-511K-SL
C425	a3044	CL11-100V-5600P-K
C426	a3041	CL11-100V-3900P-K
C427	a3510	CD110-16V-22uF-M
C428	a3509	CD110-16V-10u-M
C429	a3508	CD110-16V-4.7uF-M
C430	a3509	CD110-16V-10u-M
		OTHER
VD401	a1118	HZ6A3(1/2W,5.6V)
V401	a5014	C8050C
V402	a5009	C9014C

REF No.	PART No.	PART NAME	
N401	a4042b	UTC4558	
N402	a4503	PT2399	
X401	a6871	CKX-6.35-7 JACK	
XP401	a8825	MIC WIRE	
	AD2620N	AH POWER ASS'Y	
	F	RESISTOR	
R301	G0080	RT14-0.25W-39K±5%	
R302	G0010	RT14-0.25W-22±5%	
R303	G0753	RT13-0.167W-100K±5%	
R304	G0712	RT13-0.167W-100±5%	
R305	G0735	RT13-0.167W-10K±5%	
R306	G0707	RT13-0.167W-22±5%	
R307	G0010	RT14-0.25W-22±5%	
R308	G0719	RT13-0.167W-1K±5%	
R309	a0416	RY27-3W-47K±5%	
R310	a0415	RY27-2W-0.22±10%	
R312	G0705	RT13-0.167W-10±5%	
R313	G0804	RT13-0.167W-27K±5%	
R314	G0728	RT13-0.167W-4.7K±5%	
R315	G0778	RT13-0.167W-680±5%	
R316	G0712	RT13-0.167W-100±5%	
R317	G0724	RT13-0.167W-3K±5%	
R318	G0719	RT13-0.167W-1K±5%	
R319	G0778	RT13-0.167W-680±5%	
R320	G0728	RT13-0.167W-4.7K±5%	
R321	G0719	RT13-0.167W-1K±5%	
R322	G0728	RT13-0.167W-4.7K±5%	
	C	APACITOR	
C301	a3447a	MKP61-275VAC-0.22u-K	
C302	a2028	CC1-05B-121K-63V-SL	
C303	a3312	CT81-12B-2B4-471K-400VAC-YA	
C304	a3312	CT81-12B-2B4-471K-400VAC-YA	
C305	a3496	CD293-120uF-M-400V	
C306	a2077	CT81-14B-2E4-103M-1KV	
C307	a2081	CT81-18B-2E4-472M-400VAC-YA	
C308	a2048	CT1-05B-472M-63V-Y5V	
C310	a2035	CC1-08B-331K-63V-SL	
C311	a2063	CC81-06B-47K-1KV-SL	
C313	a2056	CS1-06B-104Z-63V-Y5V	
C314	a3495a	CD288-2200uF-M-25V	

a3495a CD288-2200uF-M-25V a3607 CD110X-22uF-M-50V a3495a CD288-2200uF-M-25V DIODE a5005a 1N4007-YG a1568a SR306 a1598 HER208-YG a5004 1N4148 a5004 1N4148 a1203 21DQ10 a1202a SF16-YG a5129 SF36-YG a5129 SF36-YG a5129 SF36-YG a1597 KBU8K(806) TRIODE.IC a4756 NCP1203P60 a4031a MC7812CT a4720 PQ1CG3032RZ a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	0
a3607 CD110X-22uF-M-50V a3514 CD110X-220uF-M-16V a3561 CD110X-470uF-M-10V a3561 CD110X-470uF-M-10V a3244 CD288-470uF-M-35V a3613 CD110X-100uF-M-25V a3509 CD110-10uF-M-16V a3561 CD110X-470uF-M-10V a3561 CD110X-470uF-M-10V a3561 CD110X-470uF-M-10V a3495a CD288-2200uF-M-25V a3607 CD110X-22uF-M-50V a3495a CD288-2200uF-M-25V DIODE a5005a 1N4007-YG a1568a SR306 a1598 HER208-YG a5004 1N4148 a1203 21DQ10 a1202a SF16-YG a5004 1N4148 a1202a SF16-YG a5129 SF36-YG a5129 SF36-YG a5129 SF36-YG a1597 KBU8K(806) TRIODE.IC a4756 NCP1203P60 a4031a MC7812CT a4720 PQ1CG3032RZ a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
a3514 CD110X-220uF-M-16V a3561 CD110X-470uF-M-10V a3561 CD110X-470uF-M-10V a3244 CD288-470uF-M-35V a3613 CD110X-100uF-M-25V a3609 CD110-10uF-M-16V a3561 CD110X-470uF-M-10V a3561 CD110X-470uF-M-10V a3561 CD110X-470uF-M-10V a3495a CD288-2200uF-M-25V a3607 CD110X-22uF-M-50V a3495a CD288-2200uF-M-25V DIODE a5005a 1N4007-YG a1568a SR306 a1598 HER208-YG a5004 1N4148 a5004 1N4148 a1203 21DQ10 a1202a SF16-YG a5004 1N4148 a1202a SF16-YG a5129 SF36-YG a5129 SF36-YG a5129 SF36-YG a1597 KBU8K(806) TRIODE.IC a4756 NCP1203P60 a4031a MC7812CT a4720 PQ1CG3032RZ a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	3
a3561 CD110X-470uF-M-10V a3561 CD110X-470uF-M-10V a3244 CD288-470uF-M-35V a3613 CD110X-100uF-M-25V a3509 CD110-10uF-M-16V a3561 CD110X-470uF-M-10V a3495a CD288-2200uF-M-25V a3607 CD110X-22uF-M-50V a3495a CD288-2200uF-M-25V DIODE a5005a 1N4007-YG a1568a SR306 a1598 HER208-YG a5004 1N4148 a1203 21DQ10 a1202a SF16-YG a5004 1N4148 a1202a SF16-YG a5129 SF36-YG a5129 SF36-YG a1597 KBU8K(806) TRIODE.IC a4756 NCP1203P60 a4031a MC7812CT a4720 PQ1CG3032RZ a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	•
a3561 CD110X-470uF-M-10V a3244 CD288-470uF-M-35V a3613 CD110X-100uF-M-25V a3509 CD110-10uF-M-16V a3561 CD110X-470uF-M-10V a3495a CD288-2200uF-M-25V a3607 CD110X-22uF-M-50V a3495a CD288-2200uF-M-25V DIODE a5005a 1N4007-YG a1568a SR306 a1598 HER208-YG a5004 1N4148 a1203 21DQ10 a1202a SF16-YG a5004 1N4148 a1202a SF16-YG a5129 SF36-YG a5129 SF36-YG a1597 KBU8K(806) TRIODE.IC a4756 NCP1203P60 a4031a MC7812CT a4720 PQ1CG3032RZ a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
a3244 CD288-470uF-M-35V a3613 CD110X-100uF-M-25V a3509 CD110-10uF-M-16V a3561 CD110X-470uF-M-10V a3495a CD288-2200uF-M-25V a3607 CD110X-22uF-M-50V a3495a CD288-2200uF-M-25V DIODE a5005a 1N4007-YG a1568a SR306 a1598 HER208-YG a5004 1N4148 a1203 21DQ10 a1202a SF16-YG a5004 1N4148 a1202a SF16-YG a5129 SF36-YG a1597 KBU8K(806) TRIODE.IC a4756 NCP1203P60 a4031a MC7812CT a4720 PQ1CG3032RZ a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
a3613 CD110X-100uF-M-25V a3509 CD110-10uF-M-16V a3561 CD110X-470uF-M-10V a3495a CD288-2200uF-M-25V a3607 CD110X-22uF-M-50V a3495a CD288-2200uF-M-25V DIODE a5005a 1N4007-YG a1568a SR306 a1598 HER208-YG a5004 1N4148 a5004 1N4148 a1203 21DQ10 a1202a SF16-YG a5129 SF36-YG a5129 SF36-YG a1597 KBU8K(806) TRIODE.IC a4756 NCP1203P60 a4031a MC7812CT a4720 PQ1CG3032RZ a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
a3509 CD110-10uF-M-16V a3561 CD110X-470uF-M-10V x3495a CD288-2200uF-M-25V x3607 CD110X-22uF-M-50V x3495a CD288-2200uF-M-25V DIODE a5005a 1N4007-YG a1568a SR306 a1598 HER208-YG a5004 1N4148 a1203 21DQ10 a1202a SF16-YG a5004 1N4148 a1202a SF16-YG a5129 SF36-YG a5129 SF36-YG a1597 KBU8K(806) TRIODE.IC a4756 NCP1203P60 a4031a MC7812CT a4720 PQ1CG3032RZ a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
a3561 CD110X-470uF-M-10V a3495a CD288-2200uF-M-25V a3607 CD110X-22uF-M-50V a3495a CD288-2200uF-M-25V DIODE DIODE a5005a 1N4007-YG a1568a SR306 a1598 HER208-YG a5004 1N4148 a1203 21DQ10 a1202a SF16-YG a5004 1N4148 a1202a SF16-YG a5129 SF36-YG a5129 SF36-YG a1597 KBU8K(806) TRIODE.IC A4756 a4756 NCP1203P60 a4031a MC7812CT a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER A7348 DCK-2620 TRANSFORMER	
a3495a CD288-2200uF-M-25V a3607 CD110X-22uF-M-50V a3495a CD288-2200uF-M-25V DIODE a5005a a5005a 1N4007-YG a1568a SR306 a1598 HER208-YG a5004 1N4148 a5004 1N4148 a1203 21DQ10 a1202a SF16-YG a5004 1N4148 a1202a SF16-YG a5129 SF36-YG a1597 KBU8K(806) TRIODE.IC a4756 a4756 NCP1203P60 a4031a MC7812CT a4720 PQ1CG3032RZ a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
a3607 CD110X-22uF-M-50V a3495a CD288-2200uF-M-25V DIODE a5005a a1568a SR306 a1598 HER208-YG a5004 1N4148 a5004 1N4148 a1203 21DQ10 a1202a SF16-YG a5004 1N4148 a1202a SF16-YG a5129 SF36-YG a1597 KBU8K(806) TRIODE.IC a4756 a4756 NCP1203P60 a4031a MC7812CT a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
DIODE a5005a 1N4007-YG a1568a SR306 a1598 HER208-YG a5004 1N4148 a5004 1N4148 a1203 21DQ10 a1202a SF16-YG a5004 1N4148 a1202a SF16-YG a5129 SF36-YG a5129 SF36-YG a1597 KBU8K(806) TRIODE.IC a4756 NCP1203P60 a4031a MC7812CT a4720 PQ1CG3032RZ a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5134 PC817 OTHER a7348 DCK-2620 TRANSFORMER	3
DIODE a5005a 1N4007-YG a1568a SR306 a1598 HER208-YG a5004 1N4148 a5004 1N4148 a1203 21DQ10 a1202a SF16-YG a5004 1N4148 a1202a SF16-YG a5129 SF36-YG a5129 SF36-YG a1597 KBU8K(806) TRIODE.IC a4756 NCP1203P60 a4031a MC7812CT a4720 PQ1CG3032RZ a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a57348 DCK-2620 TRANSFORMER	
a5005a 1N4007-YG a1568a SR306 a1598 HER208-YG a5004 1N4148 a5004 1N4148 a1203 21DQ10 a1202a SF16-YG a5004 1N4148 a1202a SF16-YG a5129 SF36-YG a5129 SF36-YG a1597 KBU8K(806) TRIODE.IC a4756 NCP1203P60 a4031a MC7812CT a4720 PQ1CG3032RZ a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	a
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a1597 KBU8K(806) TRIODE.IC a4756 NCP1203P60 a4031a MC7812CT a4720 PQ1CG3032RZ a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
a1597 KBU8K(806) TRIODE.IC a4756 NCP1203P60 a4031a MC7812CT a4720 PQ1CG3032RZ a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
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a4031a MC7812CT a4720 PQ1CG3032RZ a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
a4720 PQ1CG3032RZ a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
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a4748 FCH08A10 a4557a UTC431 a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
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a4748 FCH08A10 a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
a5128 STP7NC70ZFP a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
a5104 C8550D a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
a5009 C9014C a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
a5114 PC817 OTHER a7348 DCK-2620 TRANSFORMER	
OTHER a7348 DCK-2620 TRANSFORMER	
a7348 DCK-2620 TRANSFORMER	
a6929a FC502HA FUSE HOLDER	

REF No.	PART No.	PART NAME	REF No.	PART No.	PART NAME
R51	G0735	RT13-0.167W-10K±5%	R113	G0761	RT13-0.167W-300K±5%
R52	G0753	RT13-0.167W-100K±5%	R114	G0753	RT13-0.167W-100K±5%
R53	G0719	RT13-0.167W-1K±5%	R115	G0023	RT14-0.25W-100±5%
R54	G0784	RT13-0.167W-56K±5%		C	APACITOR
R55	G0782	RT13-0.167W-1.8K±5%	C1	a3521	CD110X-470uF-M-25V
R56	G0743	RT13-0.167W-30K±5%	C2	a3308	CT4D-2F4-0.47uF-63V-S
R61	G0719	RT13-0.167W-1K±5%	C3	a3521	CD110X-470uF-M-25V
R62	G0735	RT13-0.167W-10K±5%	C4	a3308	CT4D-2F4-0.47uF-63V-S
R63	G0719	RT13-0.167W-1K±5%	C5	a3613	CD110X-100uF-M-25V
R64	G0753	RT13-0.167W-100K±5%	C6	a2056	CS1-06B-104Z-63V-Y5V
R65	G0748	RT13-0.167W-47K±5%	C7	a3613	CD110X-100uF-M-25V
R66	G0776	RT13-0.167W-560±5%	C8	a2056	CS1-06B-104Z-63V-Y5V
R67	a0452	RJ-1W-1K±5%	C11	a3510	CD110-22uF-M-16V
R68	G0759	RT13-0.167W-220K±5%	C12	a2324	CT1-05B-471K-50V-Y5P
R69	G0750	RT13-0.167W-62K±5%	C13	a3510	CD110-22uF-M-16V
R70	G0735	RT13-0.167W-10K±5%	C14	a2032	CC1-05B-221K-63V-SL
R81	a0476	RJ-1W-10±5%	C15	a3511	CD110-33uF-M-16V
R82	a0476	RJ-1W-10±5%	C16	a2006	CC1-05B-3.3D-63V-CH
R83	a0476	RJ-1W-10±5%	C21	a3510	CD110-22uF-M-16V
R84	a0476	RJ-1W-10±5%	C22	a2324	CT1-05B-471K-50V-Y5P
R85	a0476	RJ-1W-10±5%	C23	a3510	CD110-22uF-M-16V
R86	a0476	RJ-1W-10±5%	C24	a2032	CC1-05B-221K-63V-SL
R87	a0436	RY-1W-2.2±5%	C25	a3511	CD110-33uF-M-16V
R88	a0436	RY-1W-2.2±5%	C26	a2006	CC1-05B-3.3D-63V-CH
R89	a0436	RY-1W-2.2±5%	C31	a3510	CD110-22uF-M-16V
R90	a0436	RY-1W-2.2±5%	C32	a2324	CT1-05B-471K-50V-Y5P
R91	a0436	RY-1W-2.2±5%	C33	a3510	CD110-22uF-M-16V
R92	a0436	RY-1W-2.2±5%	C34	a2032	CC1-05B-221K-63V-SL
R101	a0476	RJ-1W-10±5%	C35	a3511	CD110-33uF-M-16V
R102	G0735	RT13-0.167W-10K±5%	C36	a2006	CC1-05B-3.3D-63V-CH
R103	G0735	RT13-0.167W-10K±5%	C41	a3510	CD110-22uF-M-16V
R104	G0735	RT13-0.167W-10K±5%	C42	a2324	CT1-05B-471K-50V-Y5P
R105	G0748	RT13-0.167W-47K±5%	C43	a3510	CD110-22uF-M-16V
R106	G0748	RT13-0.167W-47K±5%	C44	a2032	CC1-05B-221K-63V-SL
R107	G0748	RT13-0.167W-47K±5%	C45	a3511	CD110-33uF-M-16V
R108	G0748	RT13-0.167W-47K±5%	C46	a2006	CC1-05B-3.3D-63V-CH
R109	G0748	RT13-0.167W-47K±5%	C51	a3510	CD110-22uF-M-16V
R110	G0748	RT13-0.167W-47K±5%	C52	a2324	CT1-05B-471K-50V-Y5P
R111	G0748	RT13-0.167W-47K±5%	C53	a3510	CD110-22uF-M-16V
R112	G0719	RT13-0.167W-1K±5%	C54	a2032	CC1-05B-221K-63V-SL

REF No.	PART No.	PART NAME
C55	a3511	CD110-33uF-M-16V
C56	a2006	CC1-05B-3.3D-63V-CH
C61	a3510	CD110-22uF-M-16V
C62	a3510	CD110-22uF-M-16V
C63	a3512	CD110X-47uF-M-16V
C64	a3607	CD110X-22uF-M-50V
C65	a3512	CD110X-47uF-M-16V
C66	a2056	CS1-06B-104Z-63V-Y5V
C67	a2056	CS1-06B-104Z-63V-Y5V
C68	a2056	CS1-06B-104Z-63V-Y5V
C81	a3306	CT4D-2F4-0.22uF-63V-S
C82	a3306	CT4D-2F4-0.22uF-63V-S
C83	a3306	CT4D-2F4-0.22uF-63V-S
C84	a3306	CT4D-2F4-0.22uF-63V-S
C85	a3306	CT4D-2F4-0.22uF-63V-S
C86	a3306	CT4D-2F4-0.22uF-63V-S
C101	a3613	CD110X-100uF-M-25V
C102	a3576	CD110-2.2uF-M-50V
C103	a3516	CD110X-470uF-M-16V
C104	a3509	CD110-10uF-M-16V
C105	a3510	CD110-22uF-M-16V
C106	a3510	CD110-22uF-M-16V
	TF	ANSISTOR
VD101	a5001	1N4002
VD102	a5001	1N4002
VD103	a1126	HZ6C1
VD104	a5001	1N4002
VD61	a5001	1N4002
V101	a5022	2N5551
V102	a5022	2N5551
V103	a5023	2N5401
V104	a5022	2N5551
V105	a5022	2N5551
V106	a5022	2N5551
	r	OTHER
L1	a6997	5.5uH
L2	a6997	5.5uH
L3	a6997	5.5uH
L4	a6997	5.5uH
L5	a6997	5.5uH

REF No.	PART No.	PART NAME
L6	a6997	5.5uH
L7	a6879	100uH
S1	a7346	12V RELAY FTR-F4AK012T
S2	a7346	12V RELAY FTR-F4AK012T
S3	a7346	12V RELAY FTR-F4AK012T
N1	P90263	STK402-920
N2	a4390	TDA7294
XS1	a6953	ST-12L PLUG
XS2	a6556	12 PINS SOCKET
XS3	a6514	9 PINS SOCKET