

SERVICE MANUAL

MODEL
DVD-300

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

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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.

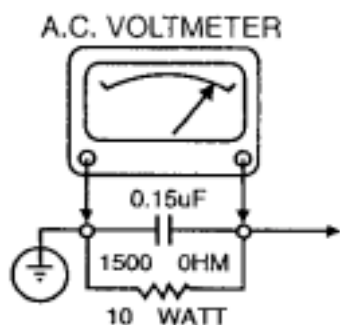
WHILE SERVICING, USE AN ISOLATION TRANSFORMER FOR PROTECTION FROM A.C. LINE SHOCK.

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 WHICH ARE TRANSPORTED TO AND FROM THE REPAIR SHOP.
2. NEVER RELEASE A REPAIR UNLESS ALL PROTECTIVE DEVICES SUCH AS INSULATORS, BARRIERS, COVERS, SHIELDS, STRAIN RELIEFS, POWER SUPPLY CORDS, AND OTHER HARDWARE HAVE BEEN REINSTALLED PER ORIGINAL DESIGN. BE SURE THAT THE SAFETY PURPOSE OF THE POLARIZED LINE PLUG HAS NOT BEEN DEFEATED.
3. SOLDERING MUST BE INSPECTED TO DISCOVER POSSIBLE COLD SOLDER JOINTS, SOLDER SPLASHES OR SHARP SOLDER POINTS. BE CERTAIN TO REMOVE ALL LOOSE FOREIGN PARTICLES.
4. CHECK FOR PHYSICAL EVIDENCE OF DAMAGE OR DETERIORATION TO PARTS AND COMPONENTS, FOR FRAYED LEADS 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 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 MILLIAMPS A.C. ANY VALUE EXCEEDING THIS LIMIT CONSTITUTES A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED IMMEDIATELY.



GOOD EARTH GROUND SUCH AS THE WATER PIPE, CONDUIT, ETC.

PLACE THIS PROBE ON EACH EXPOSED METAL PART

SUBJECT GRAPHIC SYMBOLS



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



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

SUBJECT: X-RADIATION

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

SUBJECT: IMPLOSION

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

SUBJECT: TIPS ON PROPER INSTALLATION

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

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

Insulation Checking Procedure

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

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

Electrostatically Sensitive (ES) Devices

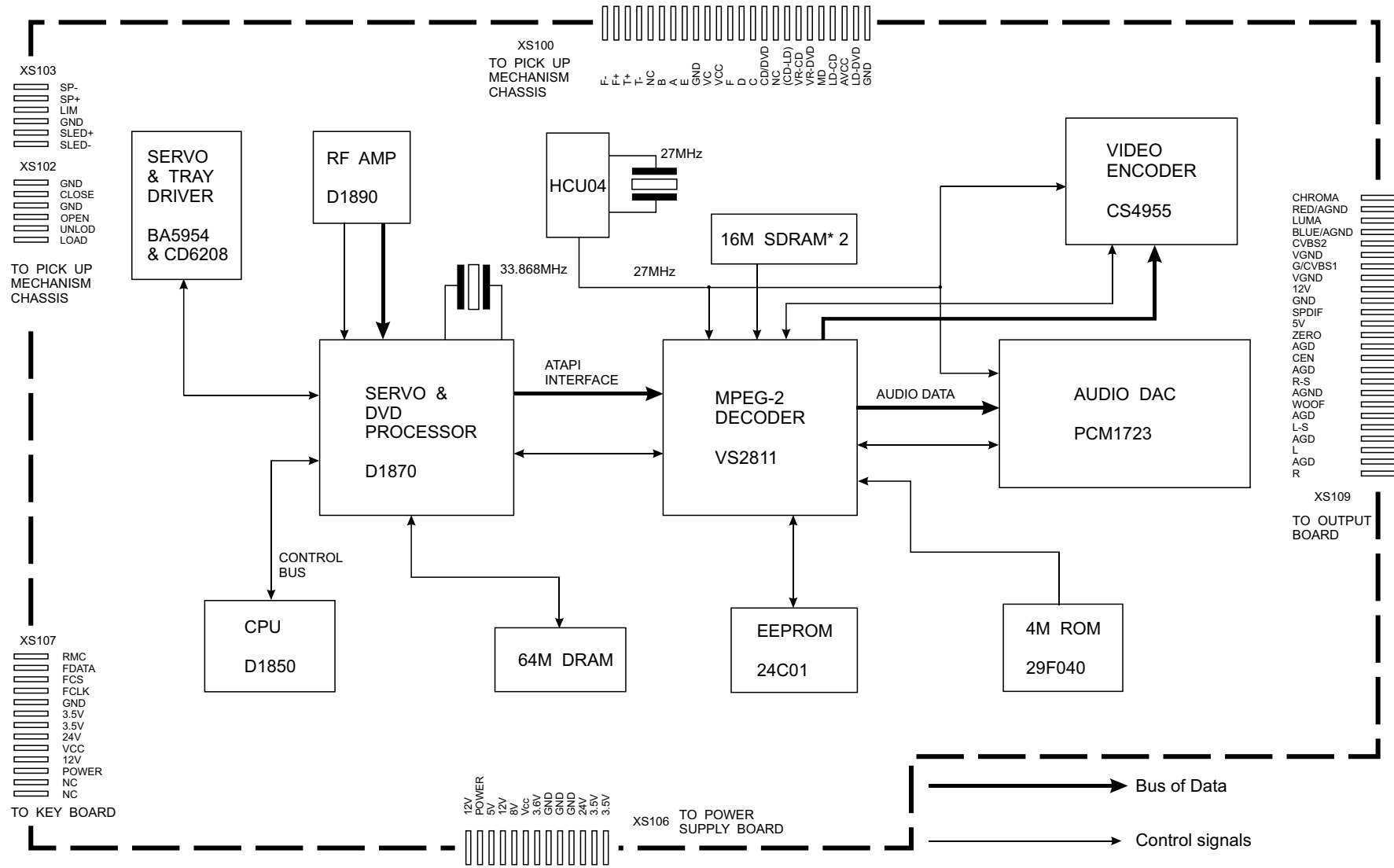
Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor chip components.

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

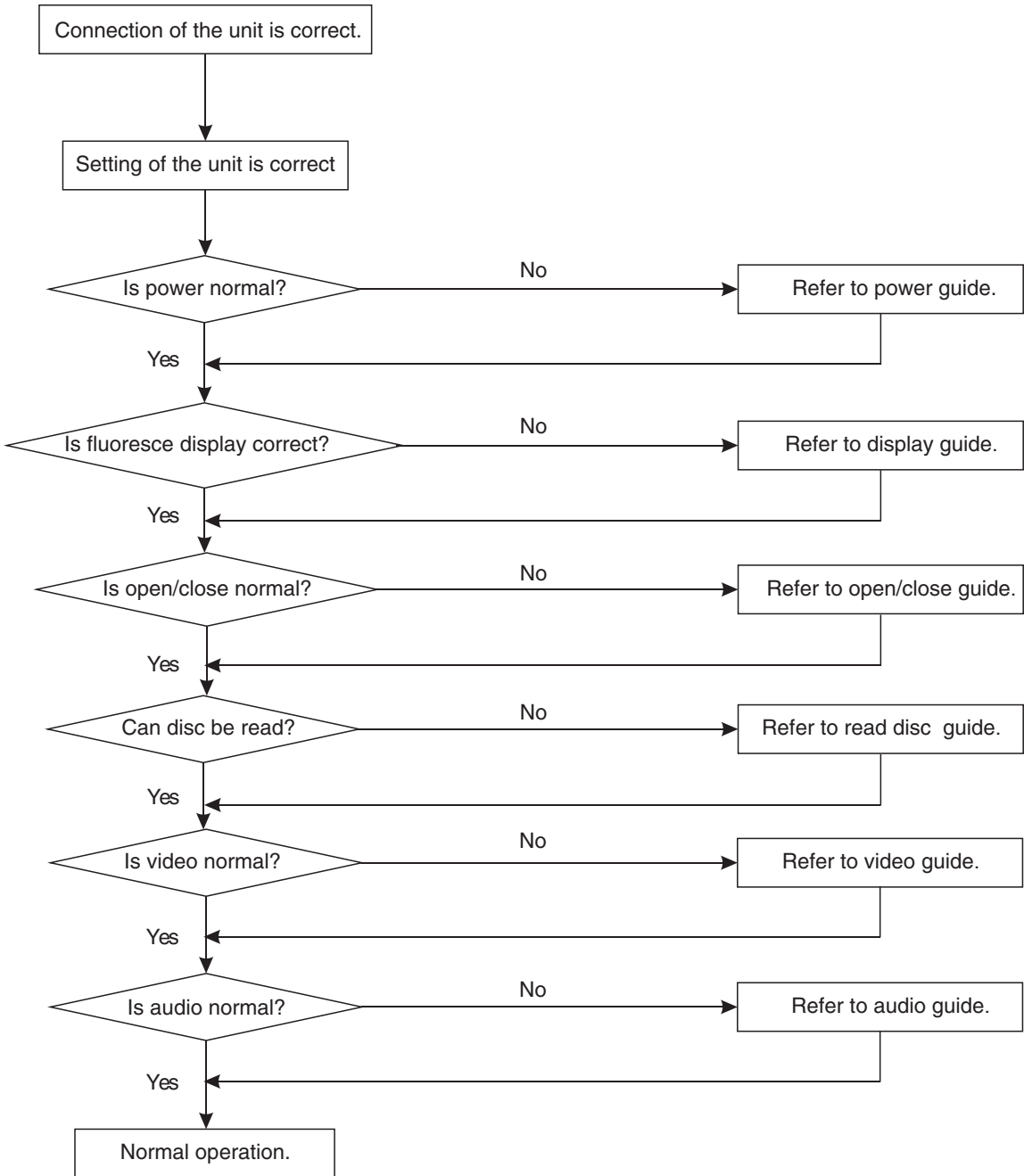
1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential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

Caution : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Normally harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

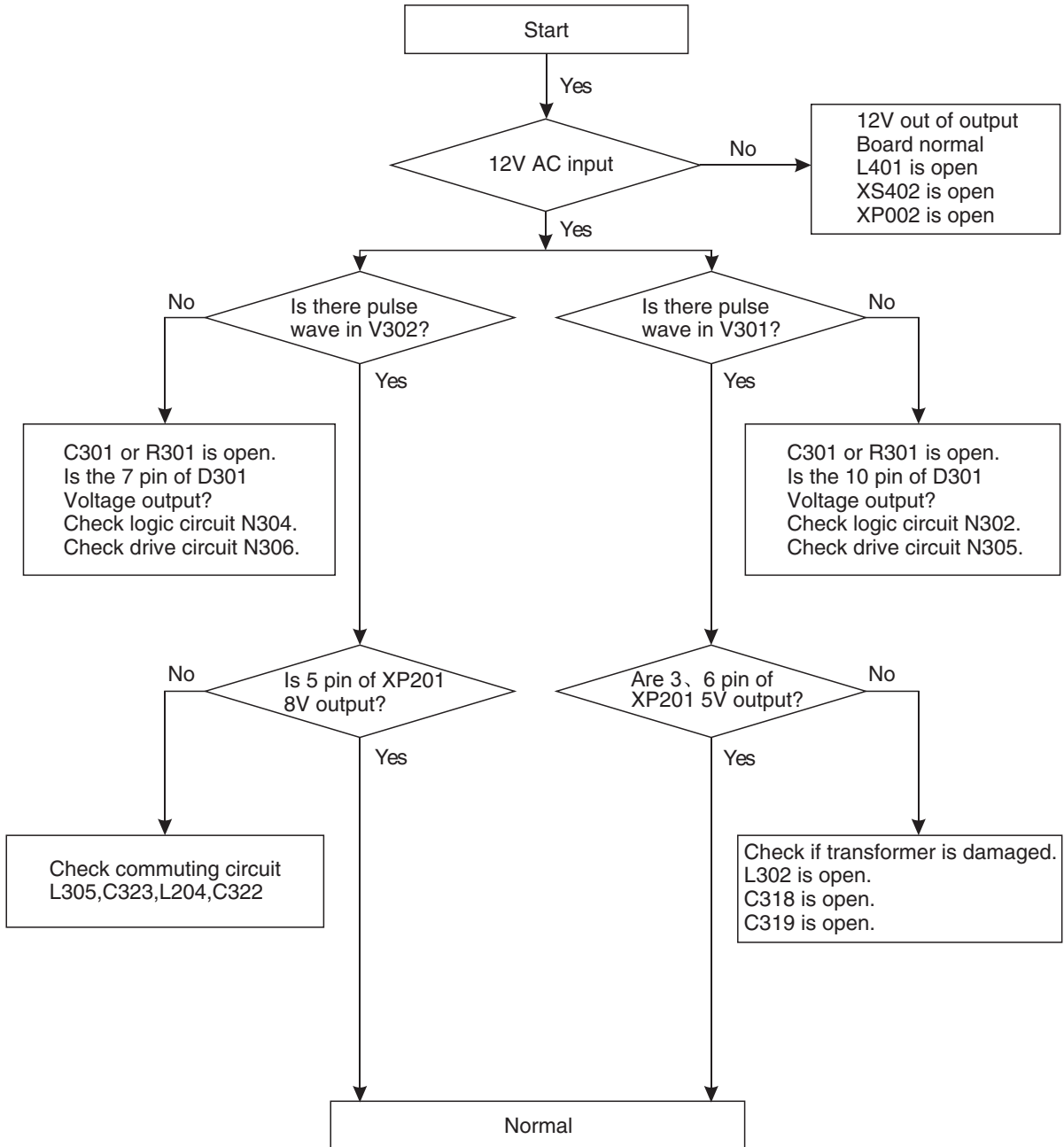
OVERALL BLOCK DIAGRAM



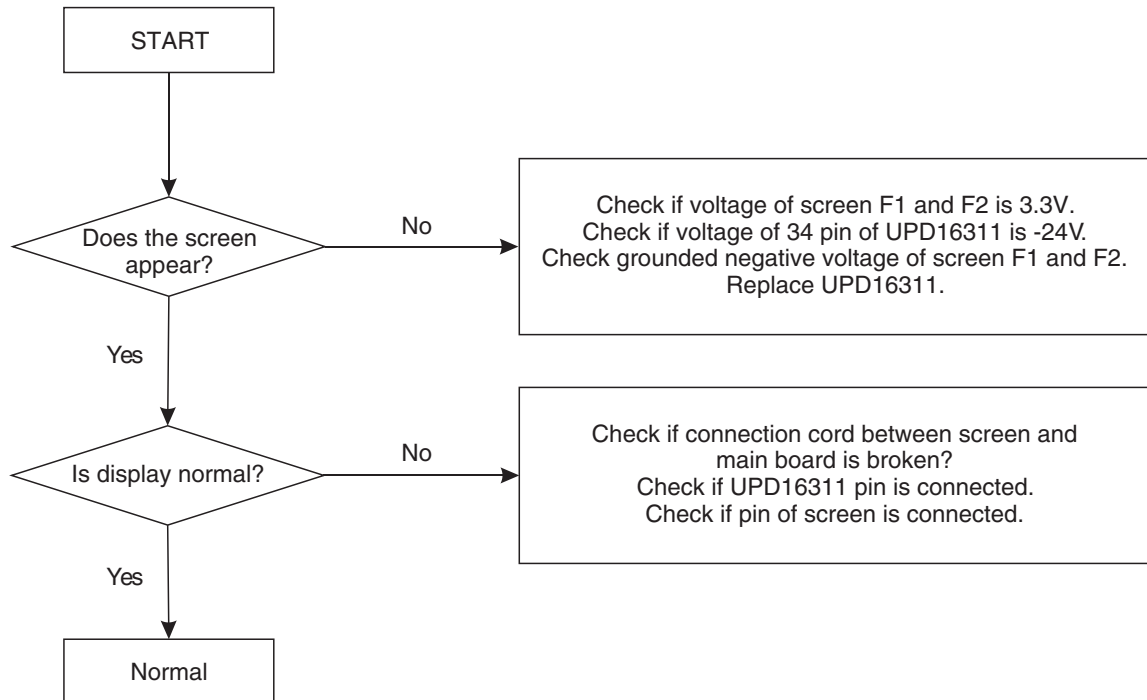
Electrical Trouble Shooting Guide



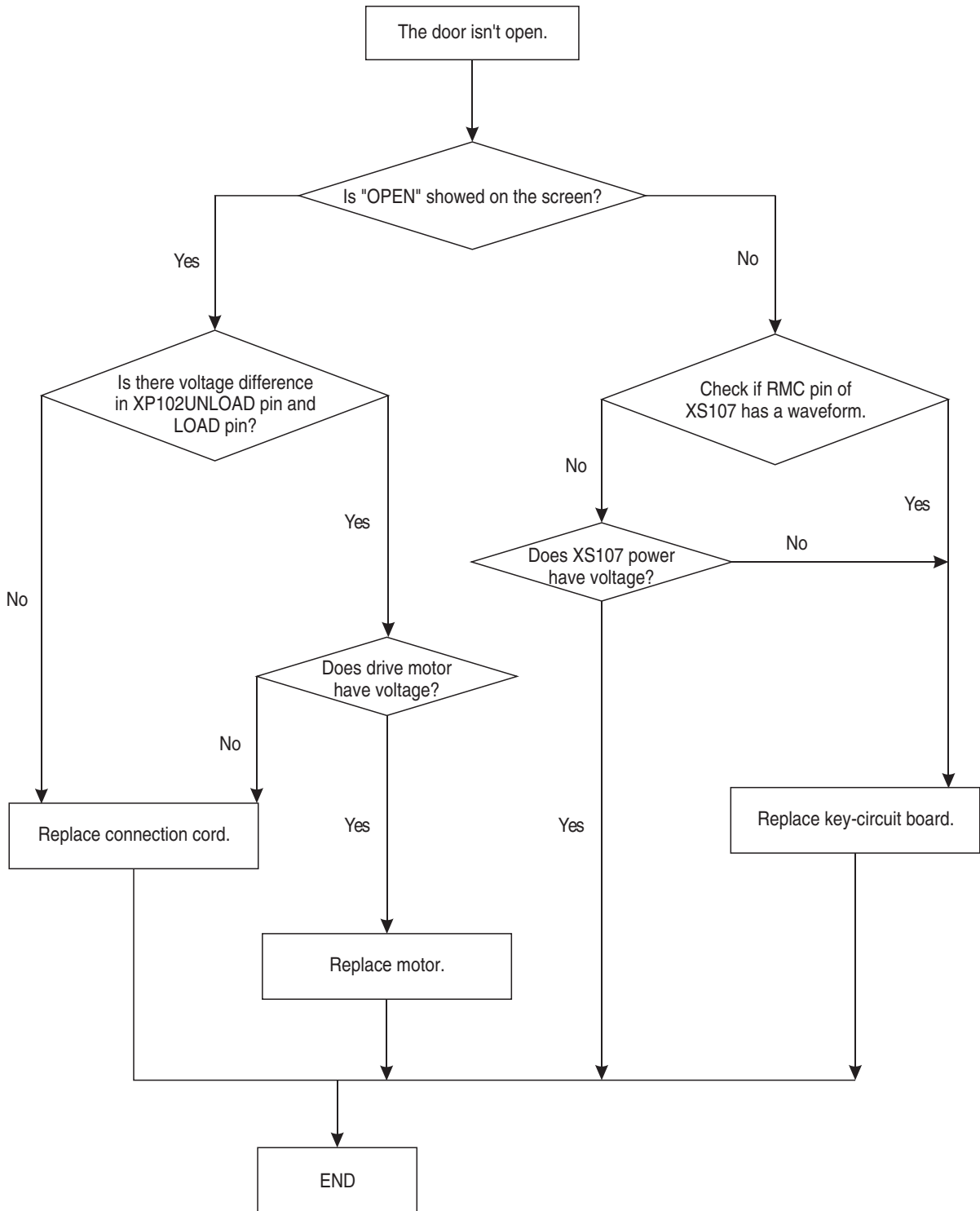
A Power Circuit abnormal



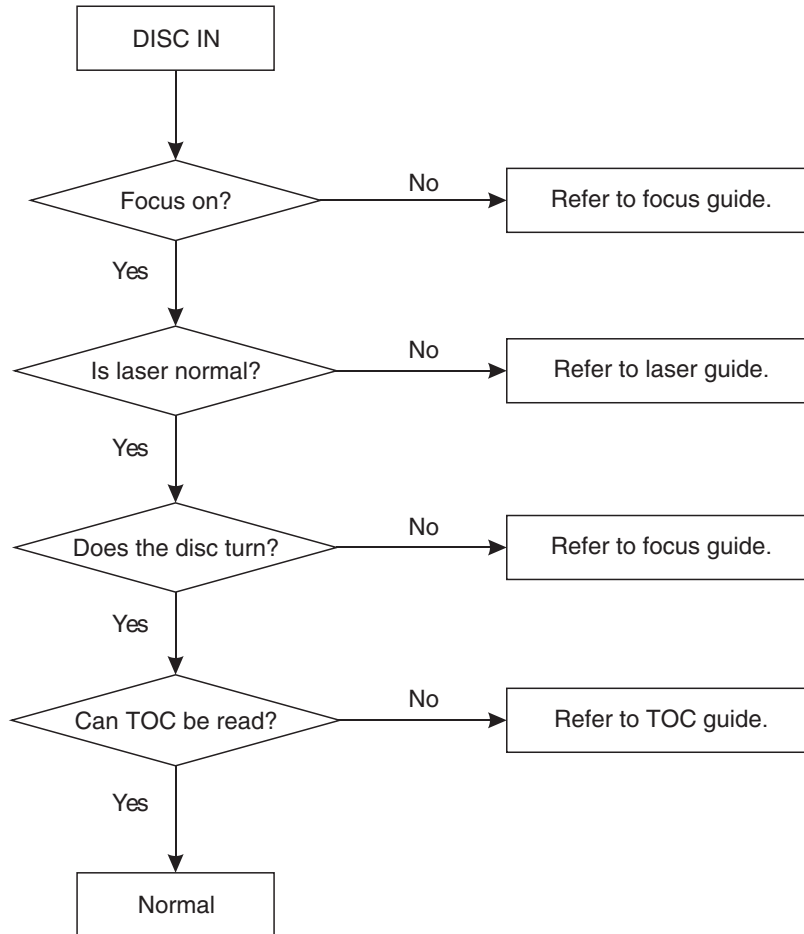
B Display abnormal



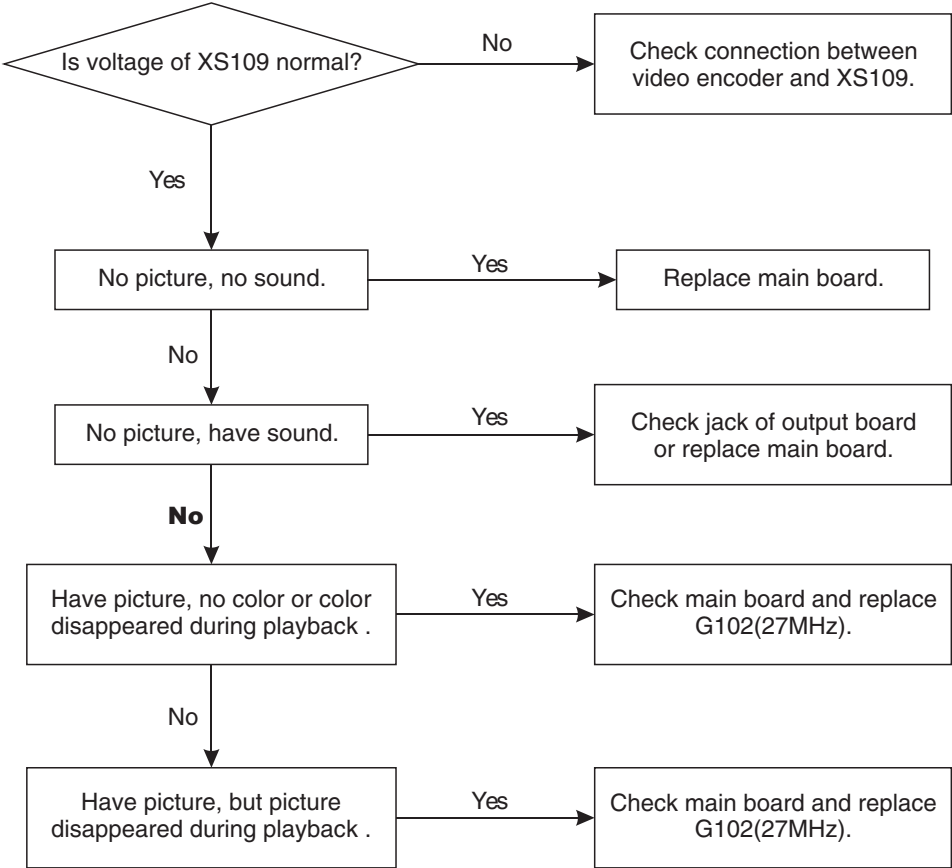
C Open/close abnormal



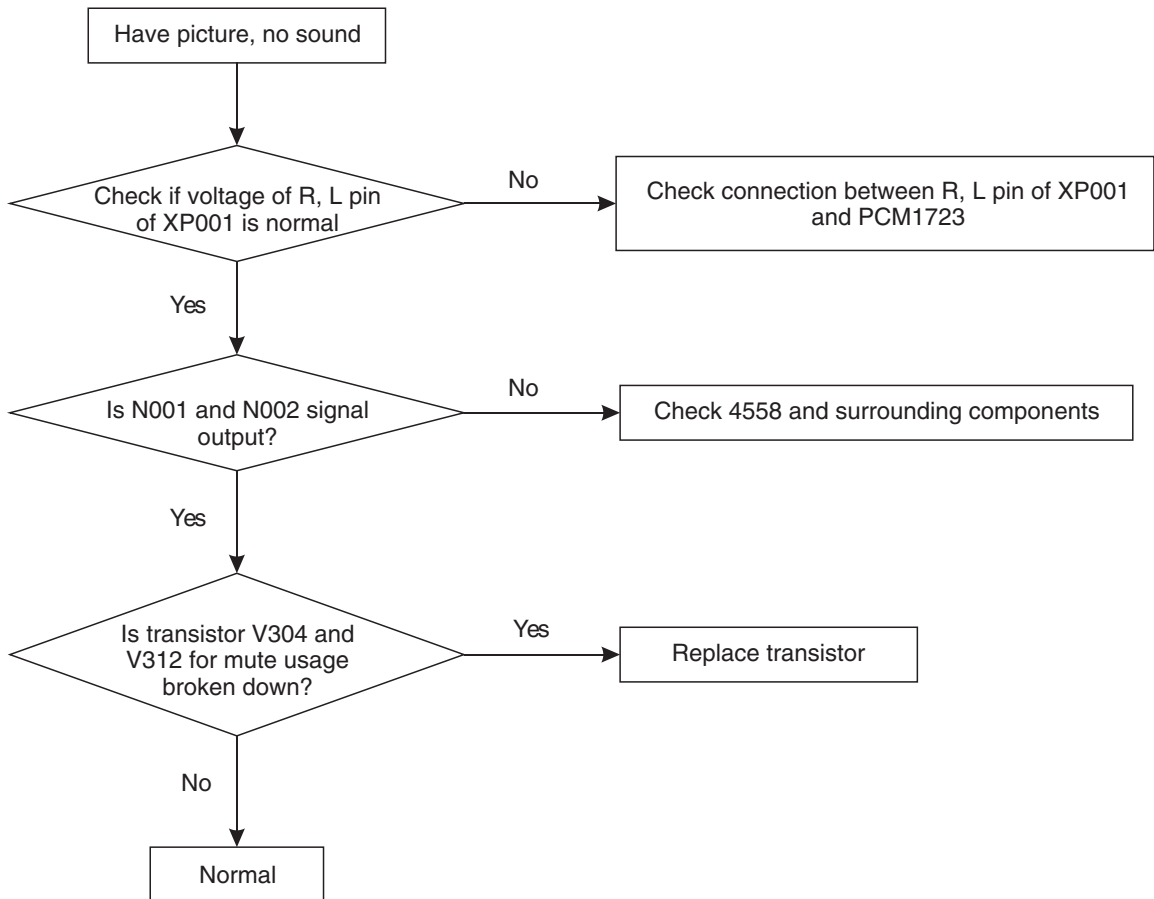
D Read disc abnormal



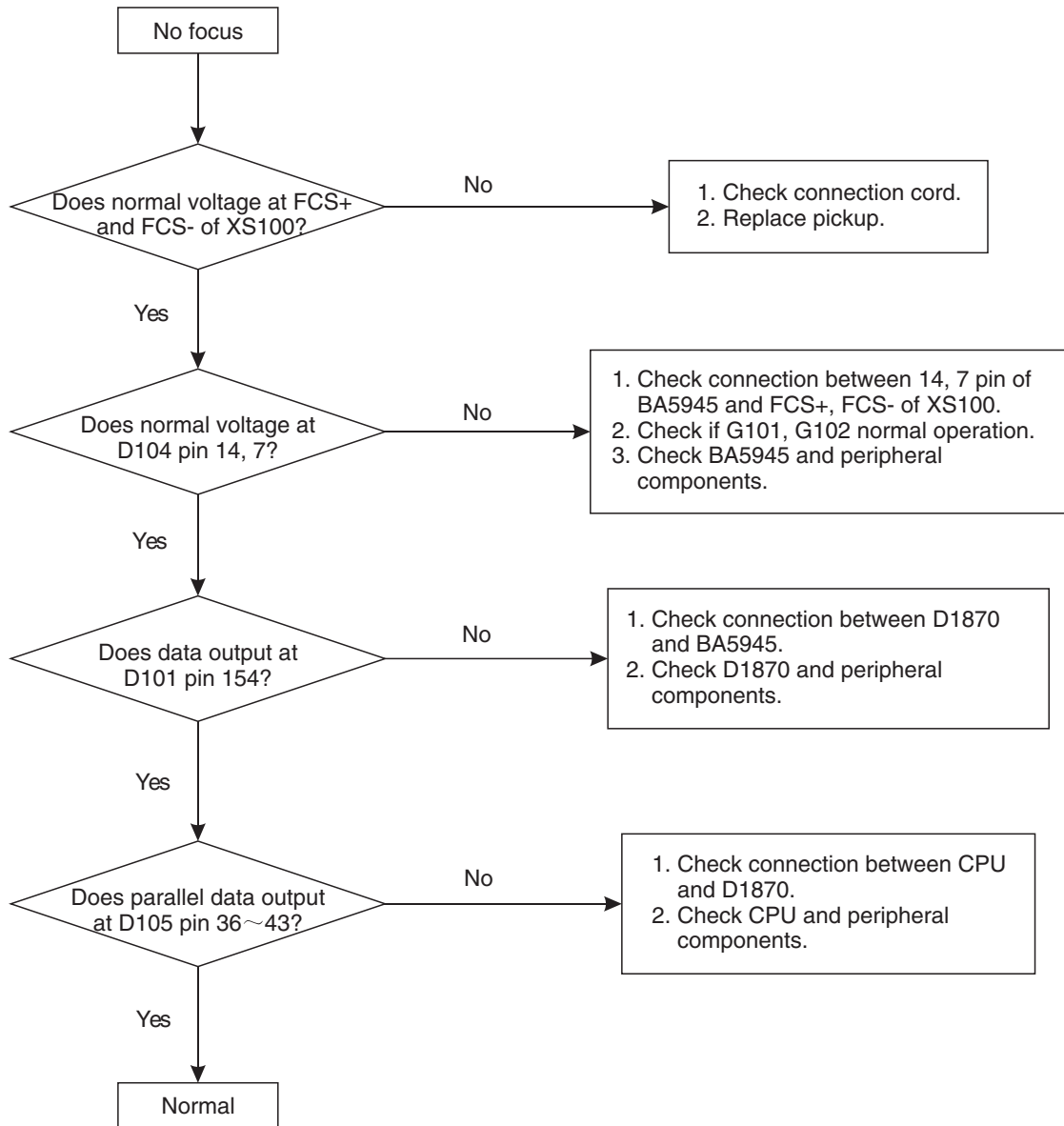
E Video abnormal



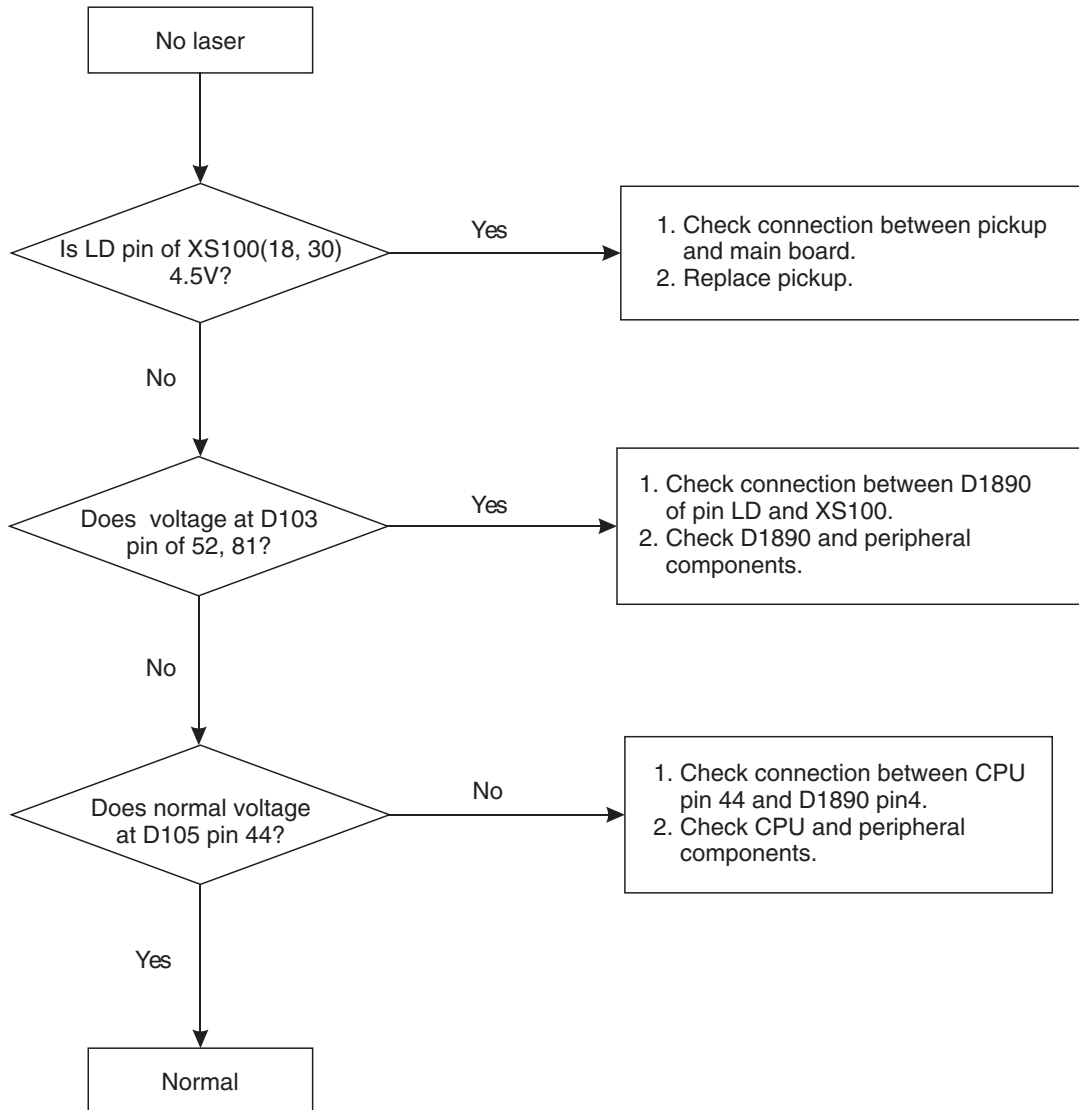
F Audio abnormal



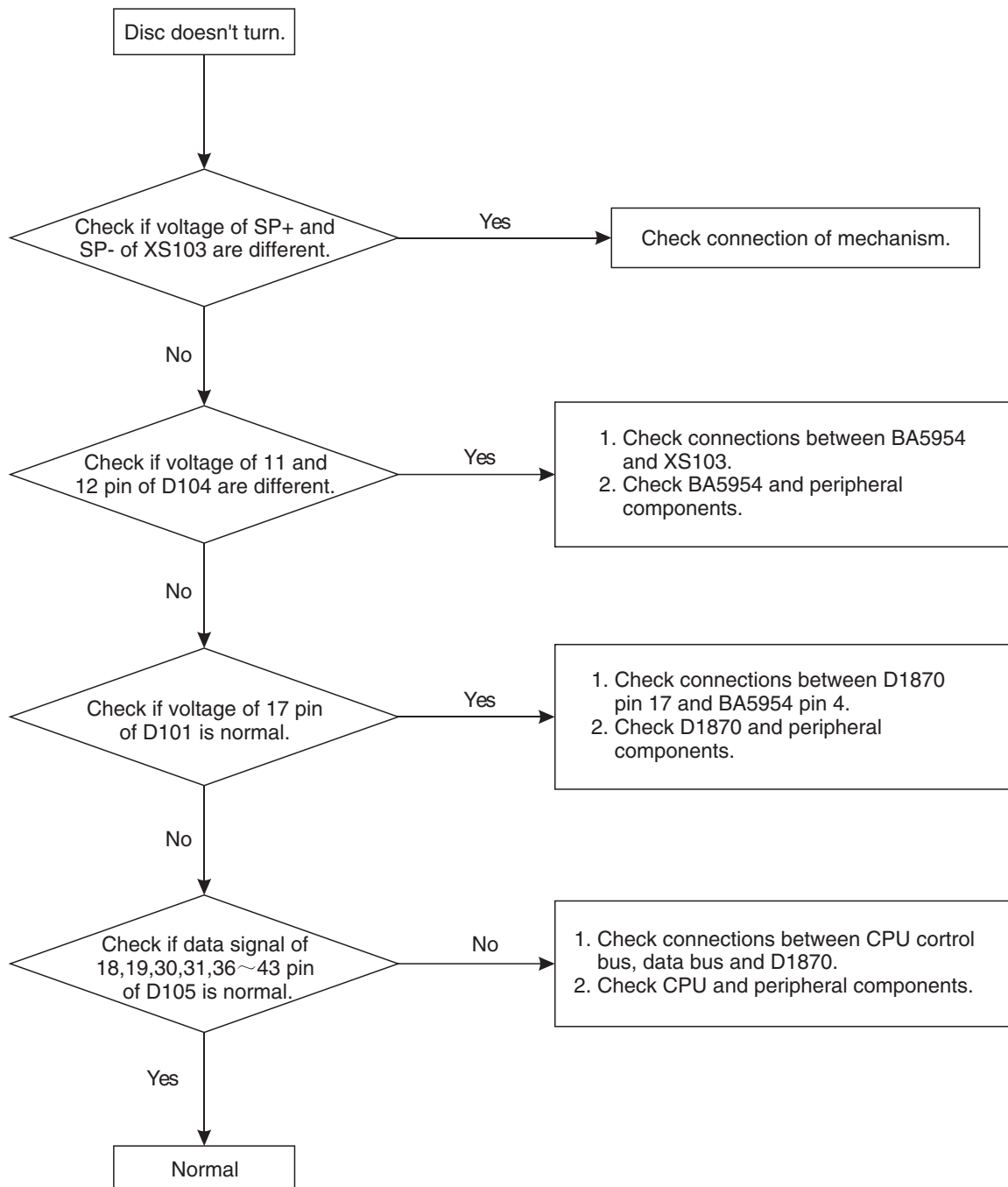
G Focus abnormal



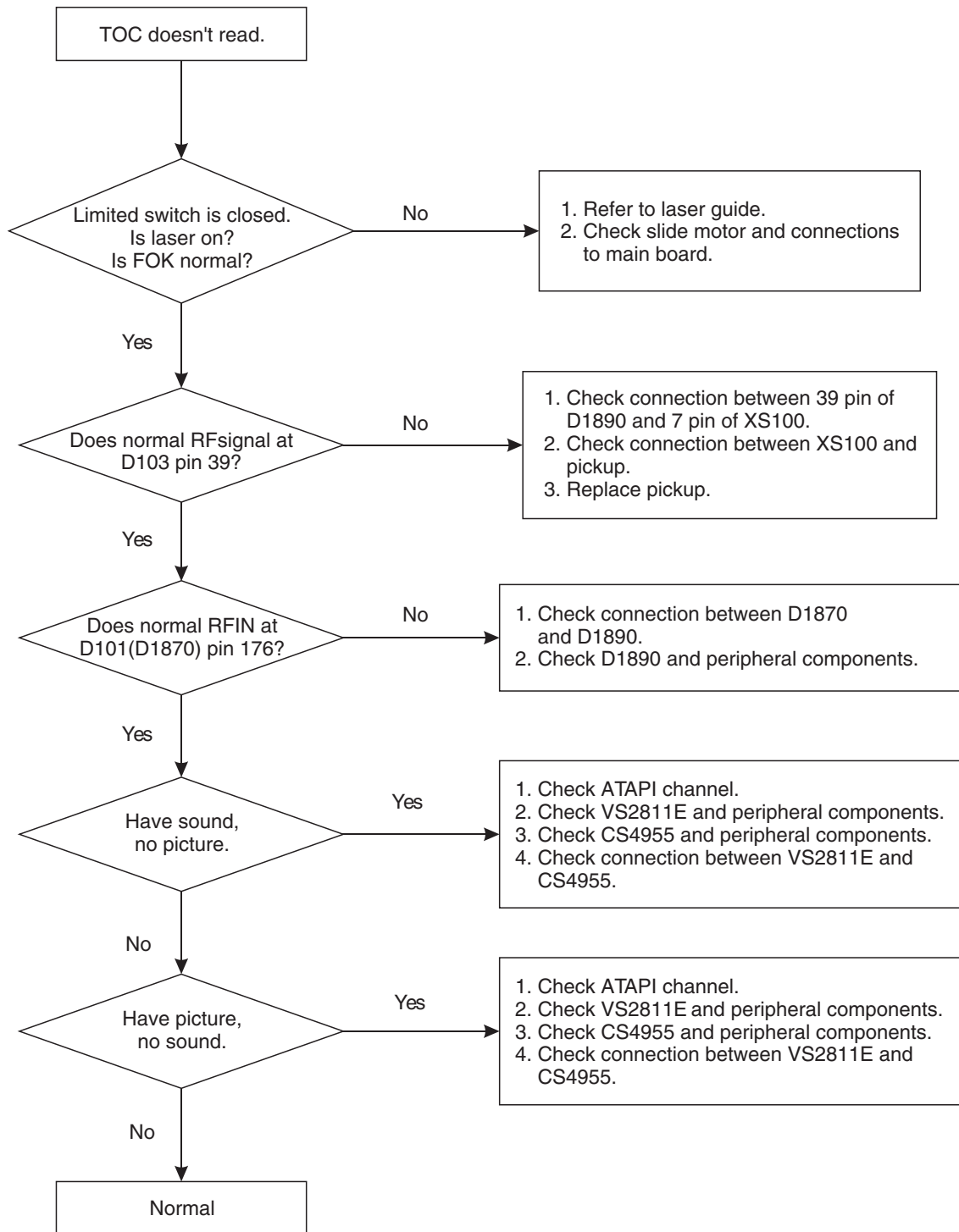
H Laser abnormal

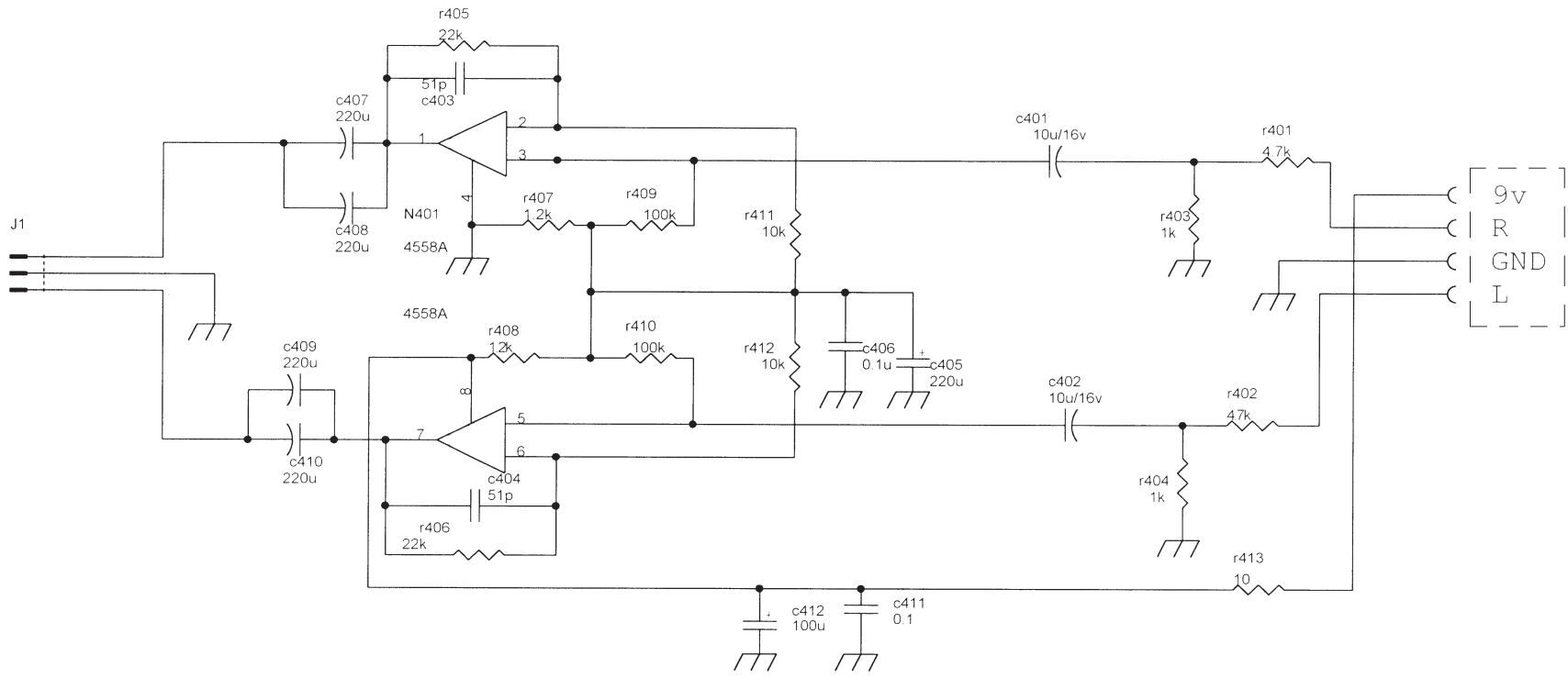


I Turn abnormal

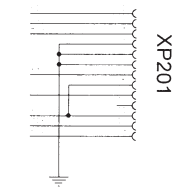
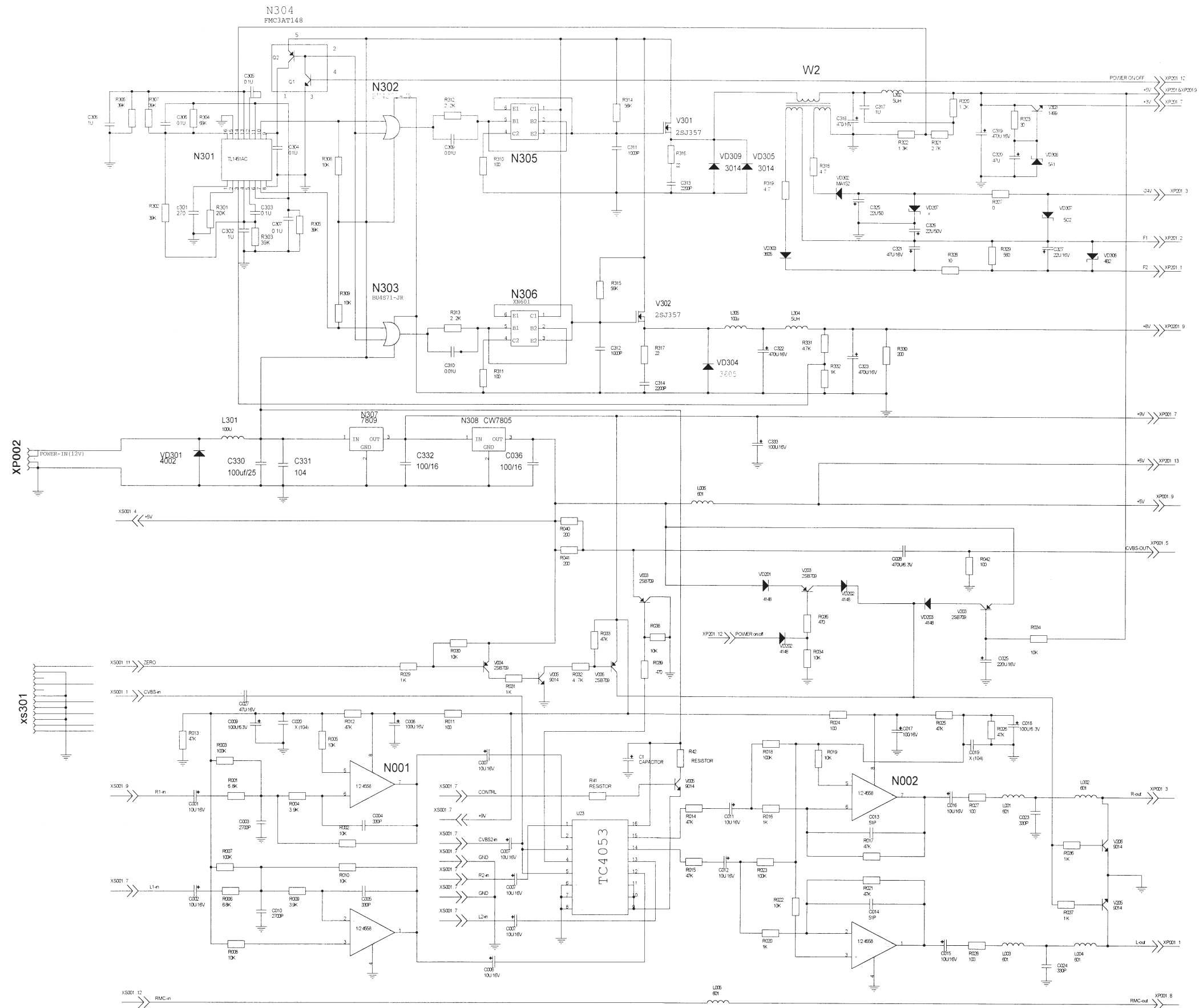


J TOC abnormal

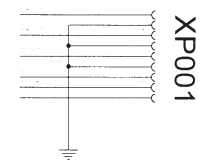


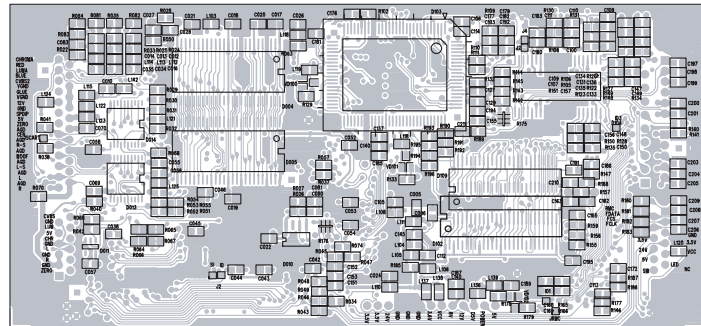
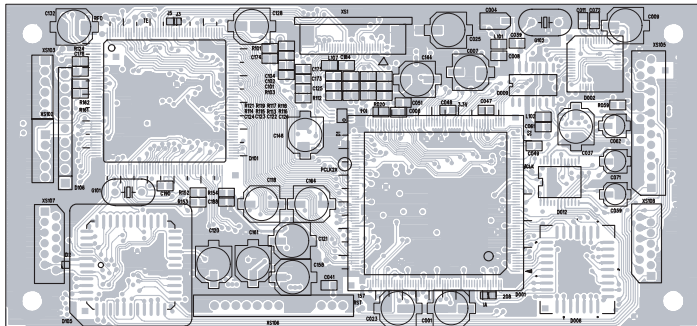


OUTPUT BOARD



POWER BOARD





DSM7012B DECODER

REPLACEMENT PARTS LIST

PART No.	PARTS NAME	Q'TY
DVD300		
S8027	KHL232C(UL) LOADING	1
01003	D168K KEY ASS'Y	1
0856	DC168 POWER ASS'Y	1
00948	DSM7012B DECODER ASS'Y	1
0857	D168OUT OUTPUT ASS'Y	1
S3230	RCA CORD AUDIO	1
S3231	RCA CORD VIDEO	1
S3118	WIRE	1
S3119	LASER SERVO WIRE	1
S2701a	7# BATTERY	2
S3251e	CC-0.5x24x210-6	1
S3126	CC-1.0x12x150	1
S3190	CC-1.0x12x40	1
S0588	6.2mH INDUCTOR ASS'Y	1
04003	REMOTE CONTROL ASS'Y	1
S3219a	DC168 POWER CORD ASS'Y	1
02005	PHONE JACK ASS'Y	1
S0676n	RC168 REMOTE	1
S1024a	OWNER MANUAL	1

REF No.	PART No.	PART NAME
CONTROL ASSY		
RESISTOR		
R501	G0735	RT13-0.167W-10K±5%
R502	G0735	RT13-0.167W-10K±5%
R503	G0735	RT13-0.167W-10K±5%
R504	G0735	RT13-0.167W-10K±5%
R505	G0735	RT13-0.167W-10K±5%
R506	G0735	RT13-0.167W-10K±5%
R507	G0735	RT13-0.167W-10K±5%
R508	G0728	RT13-0.167W-4.7K±5%
R509	G0719	RT13-0.167W-1K±5%
R510	G0714	RT13-0.167W-180±5%
R511	G0784	RT13-0.167W-56K±5%
R512	G0705	RT13-0.167W-10±5%
R513	G0705	RT13-0.167W-10±5%
CAPACITOR		
C403	a3540	CD110X-100u+50%-6.3V
C404	a3304	CT4-0.1u+50%-63V
C405	a3540	CD110X-100u+50%-6.3V
C406	a3304	CT4-0.1u+50%-63V
OTHER		
S501	G6434	EVQ21504M(4.5mm) TOUCH
S502	G6434	EVQ21504M(4.5mm) TOUCH
S503	G6434	EVQ21504M(4.5mm) TOUCH
S504	G6434	EVQ21504M(4.5mm) TOUCH
S507	G6434	EVQ21504M(4.5mm) TOUCH
VD501	a5004	IN4148 DIODE
VD502	a5004	IN4148 DIODE
VD503	a5004	IN4148 DIODE
V501	a6918	VFD20-0605 DISPLAY
B501	a6733	HS0038B RECEIVE
D501	a4399	UPD16311 IC
LED	a1500	ø3 RED LED
XP501	a6569	12FPZ-SM-TF SOCKET
XP2	a8820	DVD168 PHONE WIRE
OUTPUT ASSY		
RESISTOR		
R401	P11012	RC-03K472JT
R402	P11012	RC-03K472JT
R403	P11009	RC-03K102JT
R404	P11009	RC-03K102JT
R405	P11036	RC-02K223JI
R406	P11036	RC-02K223JI
R407	P11026	RC-03K122JT
R408	P11026	RC-03K122JT

REF No.	PART No.	PART NAME
R409	P11019	RC-03K104JT
R410	P11019	RC-03K104JT
R411	P11013	RC-03K103JT
R412	P11013	RC-03K103JT
R413	P11003	RC-03K100JT
R430	P11003	RC-03K100JT
R431	P11009	RC-03K102JT
R432	P11009	RC-03K102JT
CAPACITOR		
C401	a3636	CD11CX-10uF-M-16V
C402	a3636	CD11CX-10uF-M-16V
C403	P20064	GRM39CH510J50PT
C404	P20064	GRM39CH510J50PT
C405	a3574	CD11CX-220uF-M-10V
C406	P20015	GRM39F104Z25PT
C407	a3574	CD11CX-220uF-M-10V
C408	a3574	CD11CX-220uF-M-10V
C409	a3574	CD11CX-220uF-M-10V
C410	a3574	CD11CX-220uF-M-10V
C411	P20015	GRM39F104Z25PT
C412	a3639	CD11CX-100uF-M-10V
OTHER		
X401	a6662	HSJ1715-01110
X402	a6985	AV -8.4-01
X403	a6976	53259-02 POWER SOCKET
XS401	a6515	B-10B-PH SOCKET
XS402	a6531	B-4B-XH SOCKET
XP401	a6519	S-3B-PH SOCKET
L401	a6878	FILTER
L402	P6817	BSZ-2012-600T3
L403	P6817	BSZ-2012-600T3
V401	P5073a	2SB601AR
V402	P5073a	2SB601AR
D401	P4513	NJM4580
VD401	a1226	18-1 MANOSTAT
POWER ASSY		
R001	P11033	RC-03K682JT
R002	P11013	RC-03K103JT
R003	P11019	RC-03K104JT
R004	P11031	RC-03K392JT
R005	P11013	RC-03K103JT
R006	P11033	RC-03K682JT
R007	P11019	RC-03K104JT
R008	P11013	RC-03K103JT
R009	P11031	RC-03K392JT

REF No.	PART No.	PART NAME
R010	P11013	RC-03K103JT
R011	P11006	RC-03K101JT
R012	P11018	RC-03K473JT
R013	P11018	RC-03K473JT
R014	P11018	RC-03K473JT
R015	P11018	RC-03K473JT
R016	P11009	RC-03K102JT
R017	P11018	RC-03K473JT
R018	P11019	RC-03K104JT
R019	P11013	RC-03K103JT
R020	P11009	RC-03K102JT
R021	P11018	RC-03K473JT
R022	P11013	RC-03K103JT
R023	P11019	RC-03K104JT
R024	P11006	RC-03K101JT
R025	P11018	RC-03K473JT
R026	P11018	RC-03K473JT
R027	P11006	RC-03K101JT
R028	P11006	RC-03K101JT
R029	P11009	RC-03K102JT
R030	P11013	RC-03K103JT
R031	P11009	RC-03K102JT
R032	P11012	RC-03K472JT
R033	P11018	RC-03K473JT
R034	P11008	RC-03K471JT
R035	P11013	RC-03K103JT
R036	P11009	RC-03K102JT
R037	P11009	RC-03K102JT
R038	P11013	RC-03K103JT
R039	P11008	RC-03K471JT
R040	P11067	RC-03K201JT
R041	P11067	RC-03K201JT
R042	P20054	GRM39CH271J50PT
R301	P11035	RC-03K203JT
R302	P11038	RC-03K393JT
R303	P11038	RC-03K393JT
R304	P11040	RC-03K683JT
R305	P11038	RC-03K393JT
R306	P11038	RC-03K393JT
R307	P11038	RC-03K393JT
R308	P11013	RC-03K103JT
R309	P11013	RC-03K103JT
R310	P11006	RC-03K101JT
R311	P11006	RC-03K101JT
R312	P11029	RC-03K222JT

REF No.	PART No.	PART NAME
R313	P11029	RC-03K222JT
R314	P11039	RC-03K563JT
R315	P11039	RC-03K563JT
R316	P11140	RC-03K220JT
R317	P11140	RC-03K220JT
R318	P11205	RC-05K0000T
R319	P11205	RC-05K0000T
R320	P11026	RC-03K122JT
R321	P11030	RC-03K272JT
R322	P11027	RC-03K132JT
R323	P11004	RC-03K330JT
R327	P11205	RC-05K0000T
R328	P11095	RC-05K100JT
R329	P11098	RC-05K681JT
R330	a0028	RT14-0.25W-220±5%
R331	P11012	RC-03K472JT
R332	P11009	RC-03K102JT
R333	P11010	RC-03K202JT
R335	P11013	RC-03K103JT
R335	P11013	RC-03K103JT
R339	P11051	RC-03K-152JT
R340	P11080	470
CAPACITOR		
C001	a3561	CD110X-16V-10u±20%
C002	a3561	CD110X-16V-10u±20%
C003	P20030	GRM39B272K50PT
C004	P20029	GRM39CH331J50PT
C005	P20029	GRM39CH331J50PT
C006	a3561	CD110X-16V-10u±20%
C007	a3561	CD110X-16V-10u±20%
C008	a3609	CD110X-16V-100u±20%
C009	a3594	CD110X-10V-47u±20%
C010	P20030	GRM39B272K50PT
C011	a3561	CD110X-16V-10u±20%
C012	a3561	CD110X-16V-10u±20%
C013	P20064	GRM39CH510J50PT
C014	P20064	GRM39CH510J50PT
C015	a3561	CD110X-16V-10u±20%
C016	a3561	CD110X-16V-10u±20%
C017	a3609	CD110X-16V-100u±20%
C018	a3594	CD110X-10V-47u±20%
C023	P20029	GRM39CH331J50PT
C024	P20029	GRM39CH331J50PT
C026	a3514	CD110X-220uF-M-16V
C027	a3594	CD110X-10V-47u±20%

REF No.	PART No.	PART NAME
C028	a3664	CD110X-10V-470u±20%
C034	a3609	CD110X-16V-100u±20%
C301	P20054	GRM39CH271J50PT
C302	P20035	GRM39F105210PT
C303	P20015	GRM39F104225PT
C304	P20015	GRM39F104225PT
C305	P20015	GRM39F104225PT
C306	P20015	GRM39F104225PT
C307	P20015	GRM39F104225PT
C308	P20035	GRM39F105210PT
C309	P20012	GRM39B103K50PT
C310	P20012	GRM39B103K50PT
C311	P20009	GRM39B102K50PT
C312	P20009	GRM39B102K50PT
C313	P20042	GRM39B222K50PT
C314	P20042	GRM39B222K50PT
C317	P20035	GRM39F105210PT
C318	a3542	CD110X-1000u-6.3V±20%
C319	a3542	CD110X-1000u-6.3V±20%
C320	a3594	CD110X-10V-47u±20%
C321	a3594	CD110X-10V-47u±20%
C322	a3209	CD288-10V-1000u-10%+30%
C323	a3209	CD288-10V-1000u-10%+30%
C325	a3607	CD110-50V-22u±20%
C326	a3607	CD110-50V-22u±20%
C327	a3607	CD110-50V-22u±20%
C330	a3613	CD110X-25V-100u±20%
C331	P20015	GRM39F104225PT
C332	a3609	CD110X-16V-100u±20%
C333	a3609	CD110X-16V-100u±20%
C334	a3648	CD110X-6.3V-100u±20%
INDUCTOR		
L001	P6817	BSZ2012-600T
L002	P6817	BSZ2012-600T
L003	P6817	BSZ2012-600T
L004	P6817	BSZ2012-600T
L005	P6817	BSZ2012-600T
L006	P6817	BSZ2012-600T
L204	a6945	5uH
L302	a6945	5uH
L301	a6879	100uH
L305	a6879	100uH
TRANSISTOR		
V003	P5700	2SB709
V004	P5700	2SB709

REF No.	PART No.	PART NAME
V005	P5073a	2SD601AR
V006	P5700	2SB709
V203	P5700	2SB709
V205	P5073a	2SD601AR
V206	P5073a	2SD601AR
V301	P5723	2SJ357
V302	P5723	2SJ357
V303	a5063	3DA3852
V304	P5700	2SB709
VD201	P1200	ISS355
VD203	P1200	ISS355
VD301	a5001	IN4001
VD302	P1556	MA152
VD303	P5721	RB160L-40
VD304	P5721	RB160L-40
VD305	P5722	RB060L-40
VD306	a1139	5A1
VD307	a1106	2CW-5.1V
VD308	a1136	2CW-4C2
VD309	P11000	RC-03K0000T
VD310	P1200	ISS355
VD312	P1200	ISS355
IC		
N001	P4530	4558
N002	P4530	4558
D301	P4580	TL1451AC
N302	P4590	BU4S71-JR
N303	P4590	BU4S71-JR
N304	P5714	FMC3AT148
N305	P5702	XN4601
N306	P5702	XN4601
N307	a4714	CW7809
N308	a4571	CW7805
N309	P90090	PQ05DZ11
OTHER		
W2	a6946	EPC-19 TRANSFORMER
XP001	a8821	OUTPUT CONNECT WIRE 1
XP002	a8822	OUTPUT CONNECT WIRE 2
XP201	a6947	S-13B-PH SOCKET
XS001	a6787	FABSE1252 SOCKET
WIRE ASSY		
	a6969	0.4mHINDUCTOR
	a8844	DVD168 WIRE 1
	a8845	DVD168 WIRE 2