

Service Manual

DV3100 /N1B

DVD Player

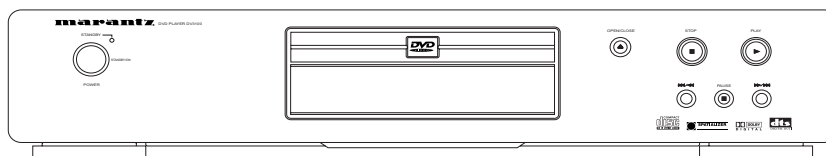


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Please use this service manual with referring to the user guide (D.F.U) without fail.

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DV3100

304W855020 ACT
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2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
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MARANTZ AMERICA, INC.
440 MEDINAH ROAD
ROSELLE, ILLINOIS 60172
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PHONE : 630 - 307 - 3100
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EUROPE / TRADING

MARANTZ EUROPE B.V.
P.O.BOX 80002, BUILDING SFF2
5600 JB EINDHOVEN
THE NETHERLANDS
PHONE : +31 - 40 - 2732241
FAX : +31 - 40 - 2735578

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PHILIPS DA AMAZONIA IND. ELET. ITDA
CENTRO DE INFORMACOES AO
CEP 04698-970
SAO PAULO, SP, BRAZIL
PHONE : 0800 - 123123(Discagem Direta Gratuita)
FAX : +55 11 534. 8988

PROFESSIONAL AMERICAS

SUPERSCOPE TECHNOLOGIES, INC.
MARANTZ PROFESSIONAL PRODUCTS
2640 WHITE OAK CIRCLE, SUITE A
AURORA, ILLINOIS 60504 USA
PHONE : 630 - 820 - 4800
FAX : 630 - 820 - 8103

PROFESSIONAL AUSTRALIA

TECHNICAL AUDIO GROUP PTY, LTD
558 DARLING STREET,
BALMAIN, NSW 2041,
AUSTRALIA
PHONE : 61 - 2 - 9810 - 5300
FAX : 61 - 2 - 9810 - 5355

CANADA

LENBROOK INDUSTRIES LIMITED
633 GRANITE COURT,
PICKERING, ONTARIO L1W 3K1
CANADA
PHONE : 905 - 831 - 6333
FAX : 905 - 831 - 6936

AUSTRALIA

JAMO AUSTRALIA PTY LTD
1 EXPO COURT, P.O. BOX 350
MT. WAVERLEY VIC 3149
AUSTRALIA
PHONE : +61 - 3 - 9543 - 1522
FAX : +61 - 3 - 9543 - 3677

THAILAND

MRZ STANDARD CO.,LTD
746 - 754 MAHACHAI ROAD.,
WANGBURAPAPIROM, PHRANAKORN,
BANGKOK, 10200 THAILAND
PHONE : +66 - 2 - 222 9181
FAX : +66 - 2 - 224 6795

SINGAPORE

WO KEE HONG DISTRIBUTION PTE LTD
130 JOO SENG ROAD
#03-02 OLIVINE BUILDING
SINGAPORE 368357
PHONE : +65 858 5535 / +65 381 8621
FAX : +65 858 6078

NEW ZEALAND

WILDASH AUDIO SYSTEMS NZ
14 MALVERN ROAD MT ALBERT
AUCKLAND NEW ZEALAND
PHONE : +64 - 9 - 8451958
FAX : +64 - 9 - 8463554

TAIWAN

PAI- YUING CO., LTD.
6 TH FL NO, 148 SUNG KIANG ROAD,
TAIPEI, 10429, TAIWAN R.O.C.
PHONE : +886 - 2 - 25221304
FAX : +886 - 2 - 25630415

MALAYSIA

WO KEE HONG ELECTRONICS SDN. BHD.
SUITE 8.1, LEVEL 8, MENARA GENESIS,
NO. 33, JALAN SULTAN ISMAIL,
50250 KUALA LUMPUR, MALAYSIA
PHONE : +60 3 - 2457677
FAX : +60 3 - 2458180

JAPAN *Technical*

MARANTZ JAPAN, INC.
35- 1, 7- CHOME, SAGAMIONO
SAGAMIHARA - SHI, KANAGAWA
JAPAN 228-8505
PHONE : +81 42 748 1013
FAX : +81 42 741 9190

日本マランツ株式会社

本社 〒228-8505
神奈川県相模原市相模大野7-35-1
営業本部 〒150-0022
東京都渋谷区恵比寿南1-11-9

KOREA

MK ENTERPRISES LTD.
ROOM 604/605, ELECTRO-OFFICETEL, 16-58,
3GA, HANGANG-RO, YONGSAN-KU, SEOUL
KOREA
PHONE : +822 - 3232 - 155
FAX : +822 - 3232 - 154

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

TECHNICAL SPECIFICATIONS

DVD VIDEO PLAYER

Power supply	AC 120V, 60Hz(U1B) /AC100V, 50/60Hz(F1N) /AC220~240V, 50Hz(N1B) /110~240V, 50Hz(K1G, A1B)
Power consumption	16W
Mass	3.2kg(7.1lbs)
External dimensions	430 x 88 x 215 (W x H x D)
Signal system	NTSC 525/60, PAL 625/50
Laser	Semiconductor laser, wavelength 650nm
Frequency range (audio)	4Hz to 20 kHz
Signal-to-noise ratio (audio)	More than 100 dB (EIAJ)
Dynamic range (audio)	More than 95 dB (EIAJ)
Harmonic distortion(audio)	0.008%
Wow and flutter	Below measurable level (less than +0.001%(W.PEAK)) (EIAJ)
Operating conditions	Temperature : 5°C(41°F) to 35°C(95°F), Operation status : Horizontal

OUTPUTS

Video output	1.0V(p-p), 75Ω, negative sync., RCA jack x 1 / SCART
S-video outputs	(Y)1.0V(p-p), 75Ω, negative sync.,Mini DIN 4-pin x 1 (C)0.286V(p-p), 75Ω
Audio output(digital audio)	0.5V(p-p), 75Ω, RCA jack x 1
Audio output(analog audio)	2.0Vrms (1kHz, 0dB), 330Ω, RCA jack (L, R) x 1 / SCART

*Designs and specifications are subject to change without notice.

PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS

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

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

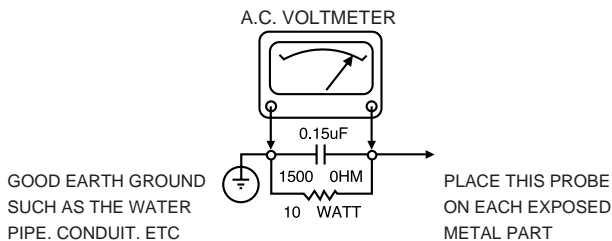
WHILE SERVICING, USE AN ISOLATION TRANSFORMER FOR PROTECTION FROM A.C. LINE SHOCK.

SAFETY CHECKS

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

SUBJECT : FIRE & SHOCK HAZARD

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



SUBJECT: GRAPHIC SYMBOLS



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



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

SUBJECT : X-RADIATION

1. BE SURE PROCEDURES AND INSTRUCTIONS TO ALL SERVICE PERSONNEL COVER THE SUBJECT OF X-RADIATION. THE ONLY POTENTIAL SOURCE OF X-RAYS IN CURRENT T.V. RECEIVERS IS THE PICTURE TUBE. HOWEVER, THIS TUBE DOES NOT EMIT X-RAYS WHEN THE HIGH VOLTAGE IS AT THE FACTORY SPECIFIED LEVEL. THE PROPER VALUE IS GIVEN IN THE APPLICABLE SCHEMATIC. OPERATION AT HIGHER VOLTAGES MAY CAUSE A FAILURE OF THE PICTURE TUBE OR HIGH VOLTAGE SUPPLY AND, UNDER CERTAIN CIRCUMSTANCES, MAY PRODUCE RADIATION IN EXCESS OF DESIRABLE LEVELS.
2. ONLY FACTORY SPECIFIED C.R.T. ANODE CONNECTORS MUST BE USED. DEGAUSSING SHIELDS ALSO SERVE AS 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, CUBBY-HOLE OR CLOSELY FITTING SHELF SPACE, OVER OR CLOSE TO HEAT DUCT, OR IN THE PATH OF HEATED AIR FLOW.
2. AVOID CONDITIONS OF HIGH HUMIDITY SUCH AS: OUTDOOR PATIO INSTALLATIONS WHERE DEW IS A FACTOR, NEAR STEAM RADIATORS WHERE STEAM LEAKAGE IS A FACTOR, ETC.
3. AVOID 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 T.V.'S OF THE SAME OR LARGER SCREEN SIZE.
8. CAUTION CUSTOMERS AGAINST THE USE OF EXTENSION CORDS. EXPLAIN THAT A FOREST OF EXTENSIONS SPROUTING FROM A SINGLE OUTLET CAN LEAD TO DISASTROUS CONSEQUENCES TO HOME AND FAMILY.

SERVICING PRECAUTIONS

CAUTION : Before servicing the DVD covered by this service data and its supplements and 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 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 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.)



3. INFORMATIONS

REGION CODE

VERSION	REGION CODE	COUNTRY
/U1B	1	USA/CANADA
/N1B	2	EUROPE
/F1N	2	JAPAN
/A1B	4	AUSTRALIA

THE DISCS THAT THE DV3100 CAN HANDLE

The following discs can be played back with a DV3100.

disc	mark	playback capability	size	side
DVD		Audio/Video	12 cm 8 cm	single/double
CD		Audio	12 cm 8 cm	single

Note: The regional code of the discs must meet to the regional code of the product.

DVD INFORMATION

Below is a glossary of the new terms related to DVD.

Title:

A disc may have more than one story/movie on it, so each story/movie is called a "title".

For example, if there are 2 movies on the disc, they are separated into Title 1 and Title 2.

Chapter:

A title may also be separated into chapters.

For example, a movie (title) may be separated into 3 scenes (chapters).

Title 1			Title 2		
Chapter 1	Chapter 2	Chapter 3	Chapter 1	Chapter 2	Chapter 3

Subtitles:

DVDs are recorded with up to 32 different subtitle languages. If a disc has more than one subtitle language, you can select the subtitle language that you want to read.

Soundtrack language:

DVDs are recorded with up to 8 different soundtrack languages. If a disc has more than one language, you can select the soundtrack language that you want to listen to.

Multi-angles:

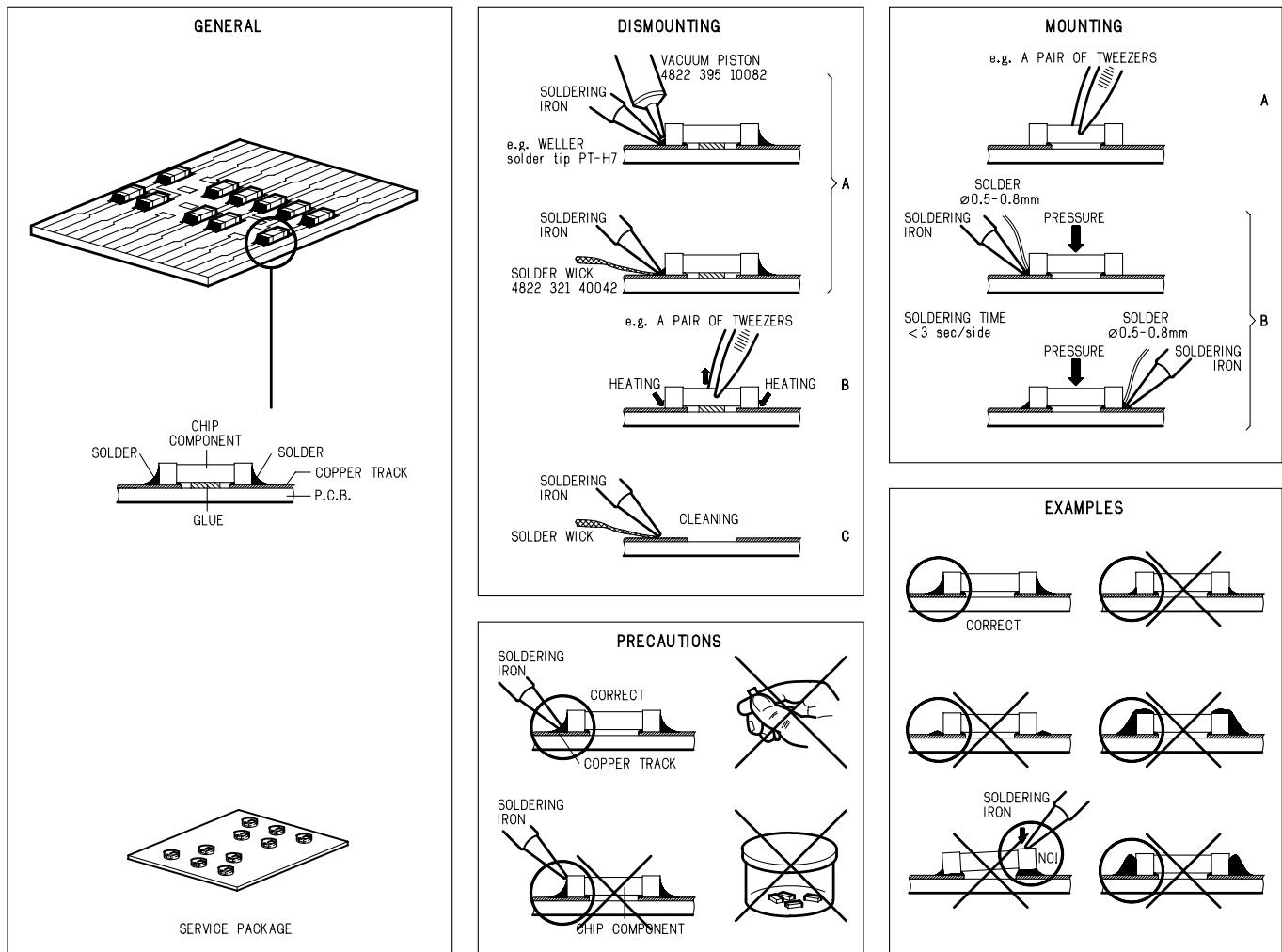
On some DVDs, scenes have been filmed from different angles (up to a maximum of 9). On these discs, you can select the angle that you want to watch. Please refer to the DVD's manual to see which scenes have multi-angles.

Parental guide:

Some discs have restriction levels that allow you to cut scenes or prevent playback of discs that have contents that you do not want children to watch.

4. SERVICING HINT

SERVICE HINTS



SERVICE TOOLS

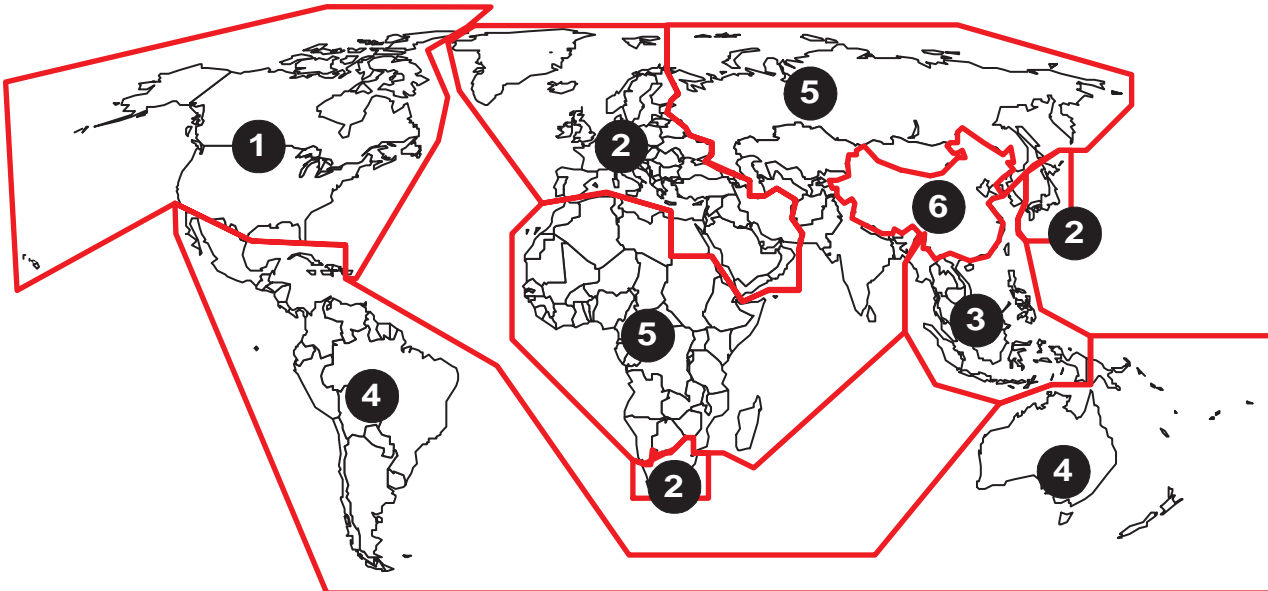
Audio signals disc	4822 397 30184
Disc without errors (SBC444)+	
Disc with DO errors, black spots and fingerprints (SBC444A)	4822 397 30245
Disc (65 min 1kHz) without no pause	4822 397 30155
Max. diameter disc (58.0 mm)	4822 397 60141
Torx screwdrivers	
Set (straight)	4822 395 50145
Set (square)	4822 395 50132
13th order filter	4822 395 30204
DVD test disc	4822 397 10131

REGIONAL CODES

What are "regional codes"?

Motion picture studios want to control the home release of movies in different countries because theater releases aren't simultaneous (a movie may come out on DVD in the US when it's just hitting screens in Europe). Therefore they have required that the DVD standard include codes which can be used to lock out the playback of certain discs in certain geographical regions. Players sold in each region will have that region's code built into the player. The player will refuse to play these "region coded" discs which are not allowed in the region. However, regional codes are entirely optional. Discs without codes will play on any player in any country. Some studios have already announced that only their new releases will have regional codes. There are six regions:

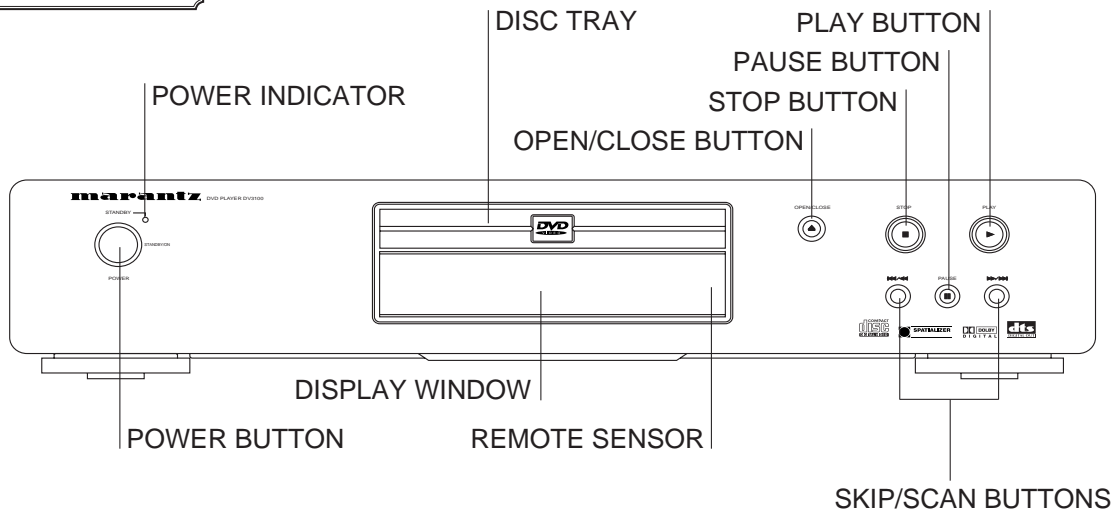
1. United States and Canada
2. Europe and Japan
3. Far East (except Japan & China)
4. South America and Oceania
5. Africa and the Middle East
6. China (except Hong Kong)



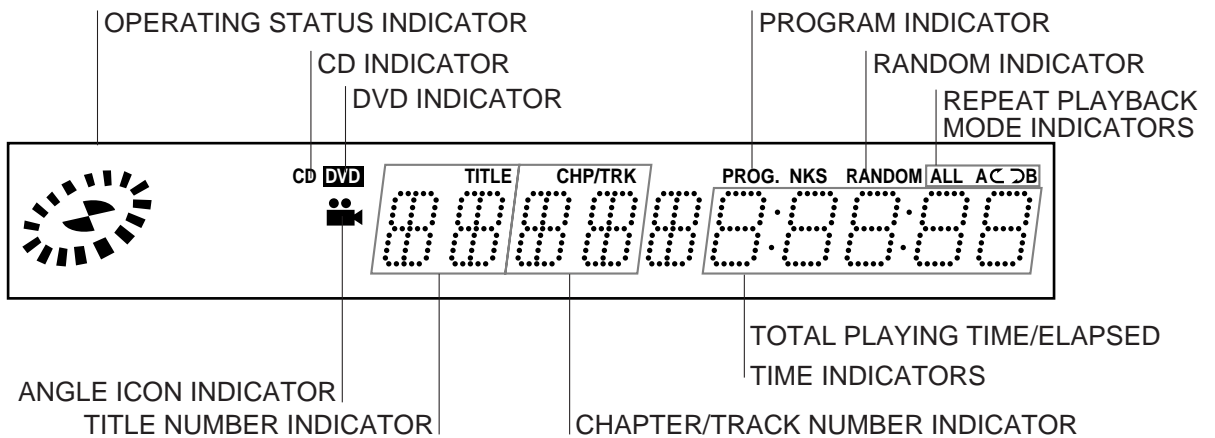
Map of DVD Regions

LOCATION OF CUSTOMER CONTROLS

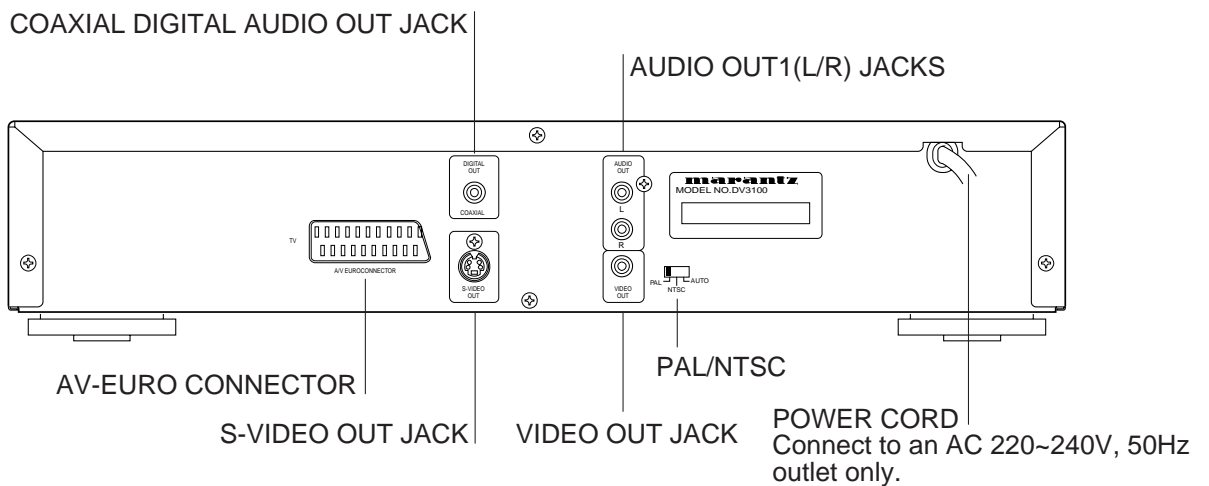
FRONT PANEL



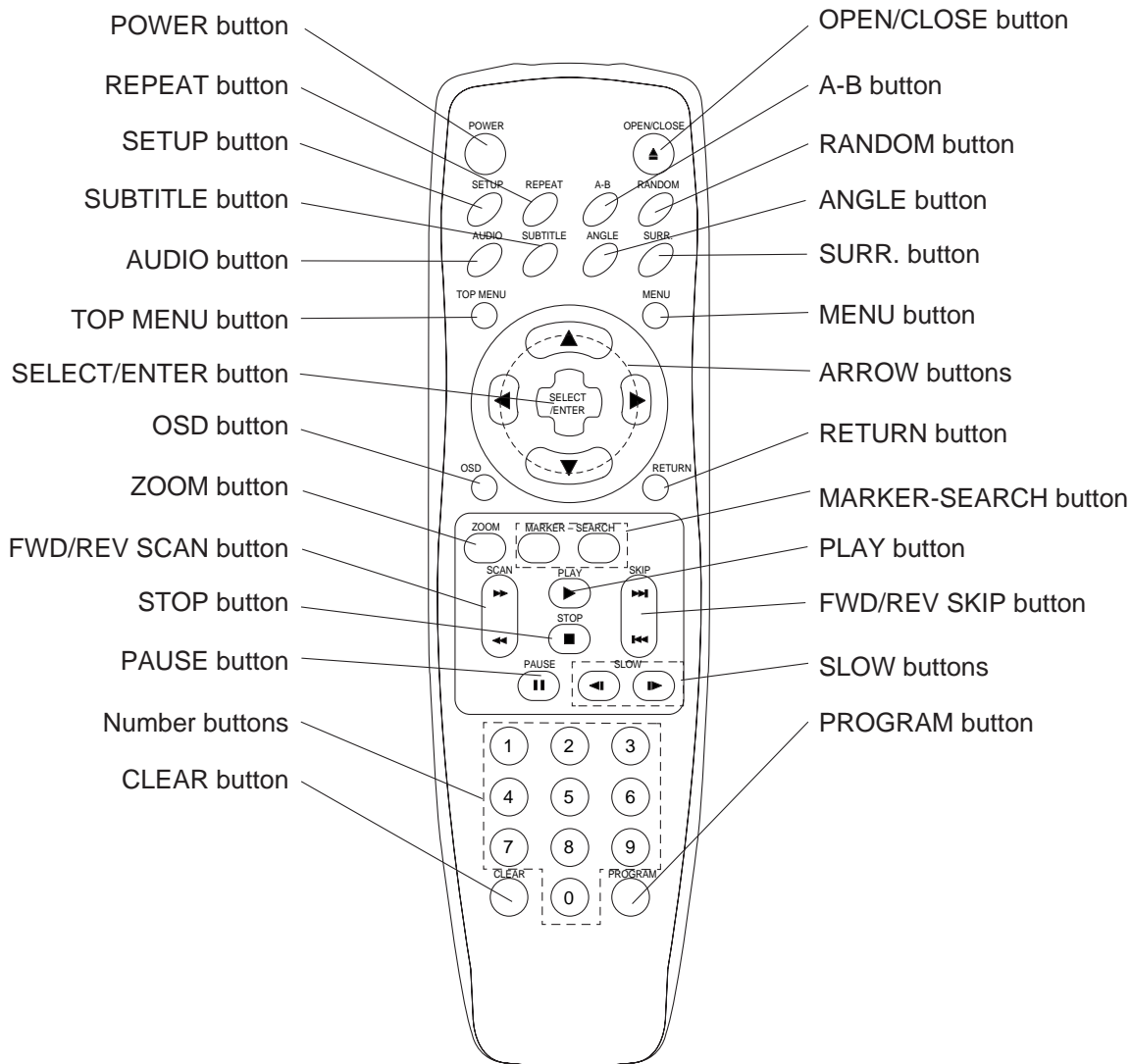
DISPLAY WINDOW



REAR PANEL



REMOTE CONTROL



SECTION 2

CABINET & MAIN CHASSIS

CONTENTS

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CABINET DISASSEMBLY	2-2
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2. Packing Accessory Section	2-5

DISASSEMBLY

CAUTION BEFORE STARTING SERVICING

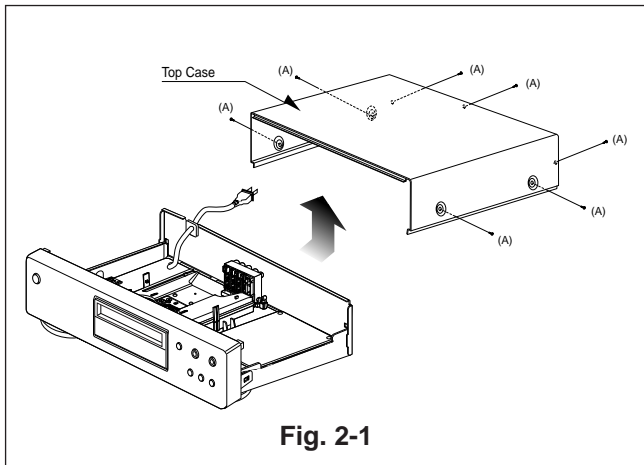
Electronic parts are susceptible to static electricity and may easily be damaged, so do not forget to take a proper grounding treatment as required.

Many screws are used inside the unit. To prevent missing, dropping, etc. of the screws, always use a magnetized screw driver in servicing. Several kinds of screws are used and some of them need special cautions. That is, take care of the tapping screws securing molded parts and fine pitch screws used to secure metal parts. If they are used improperly, the screw holes will be easily damaged and the parts can not be fixed.

CABINET DISASSEMBLY

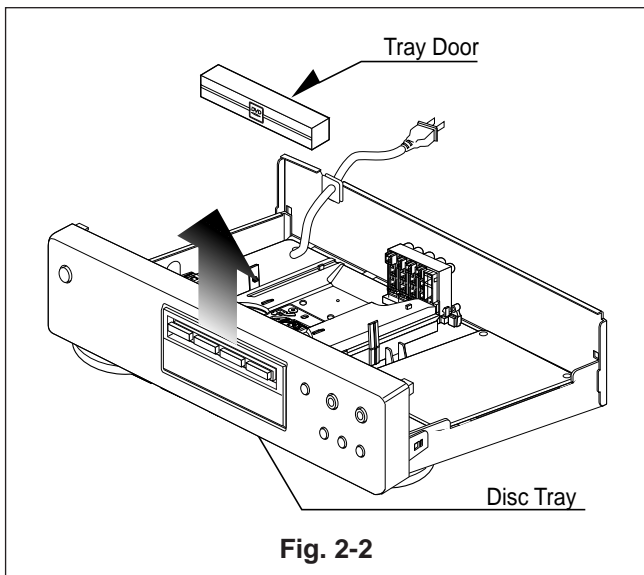
1. Top Case

1. Release 7 screws (A). (See Fig. 2-1)
2. Lift the top case with holding the back of it, and remove it in the direction of the arrow



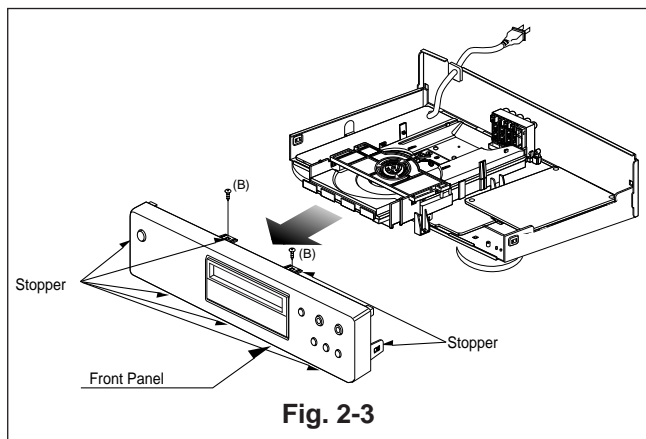
2. Tray Door

1. Eject the disc tray.
2. Lift up the tray door in the direction of the arrow.

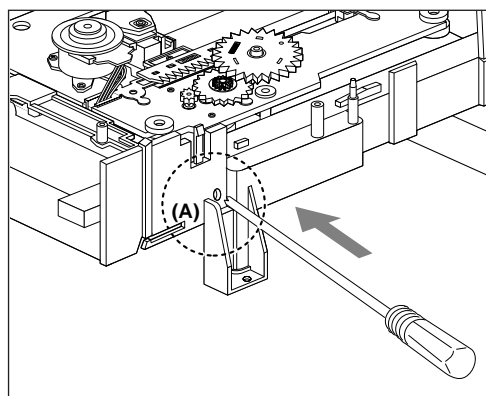


3. Front Panel

1. Eject the disc tray. (See Fig. 2-2)
2. Remove the tray door. (See Fig. 2-2)
3. Release 2 screws (B).
4. Pull the front panel toward you while pressing 7 stoppers to disengage, and remove the front panel. (See Fig. 2-3)



REMARK: Before disassemble the front panel.



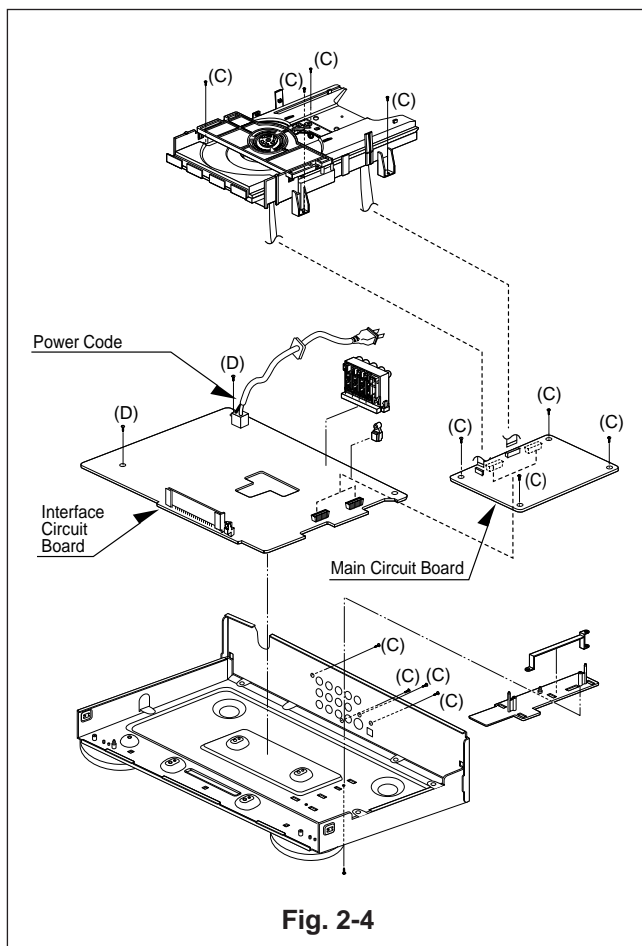
Press open/close button to open the tray. If the tray doesn't work, insert and push a small screwdriver in the emergency eject hole (A) at the right side. Then the tray comes out. After the first centimeter it is possible to pull the tray out by hand. Release the door cover of the tray.

CIRCUIT BOARD DISASSEMBLY

Note: Before removing the main circuit board, be sure to shortcircuit the laserdiode output land.
After replacing the main circuit board, open the land after inserting the flexible connector.
(Refer to Mechanism Disassembly)

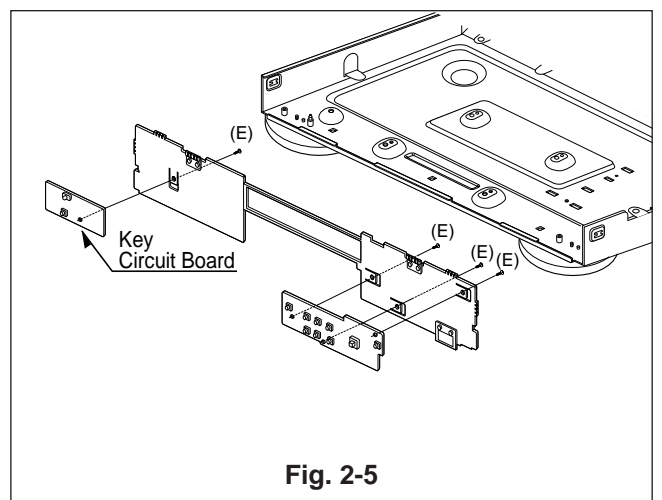
1. Disassembling of Main Circuit Board and Interface Board

1. Remove the top case.(See Fig. 2-1)
2. Remove 12 screw (C).
3. Remove the deck from Main Circuit Board.
4. Remove Main Circuit Board from Interface Board.
5. Remove 2 screw (D).
6. Remove Interface Board from the chassis.



2. Digitron and Key Circuit Board

1. Remove the front panel.(See Fig. 2-3)
2. Release 4 screws (E), and remove the digitron circuit board.



EXPLODED VIEWS

1. Cabinet and Main Frame Section

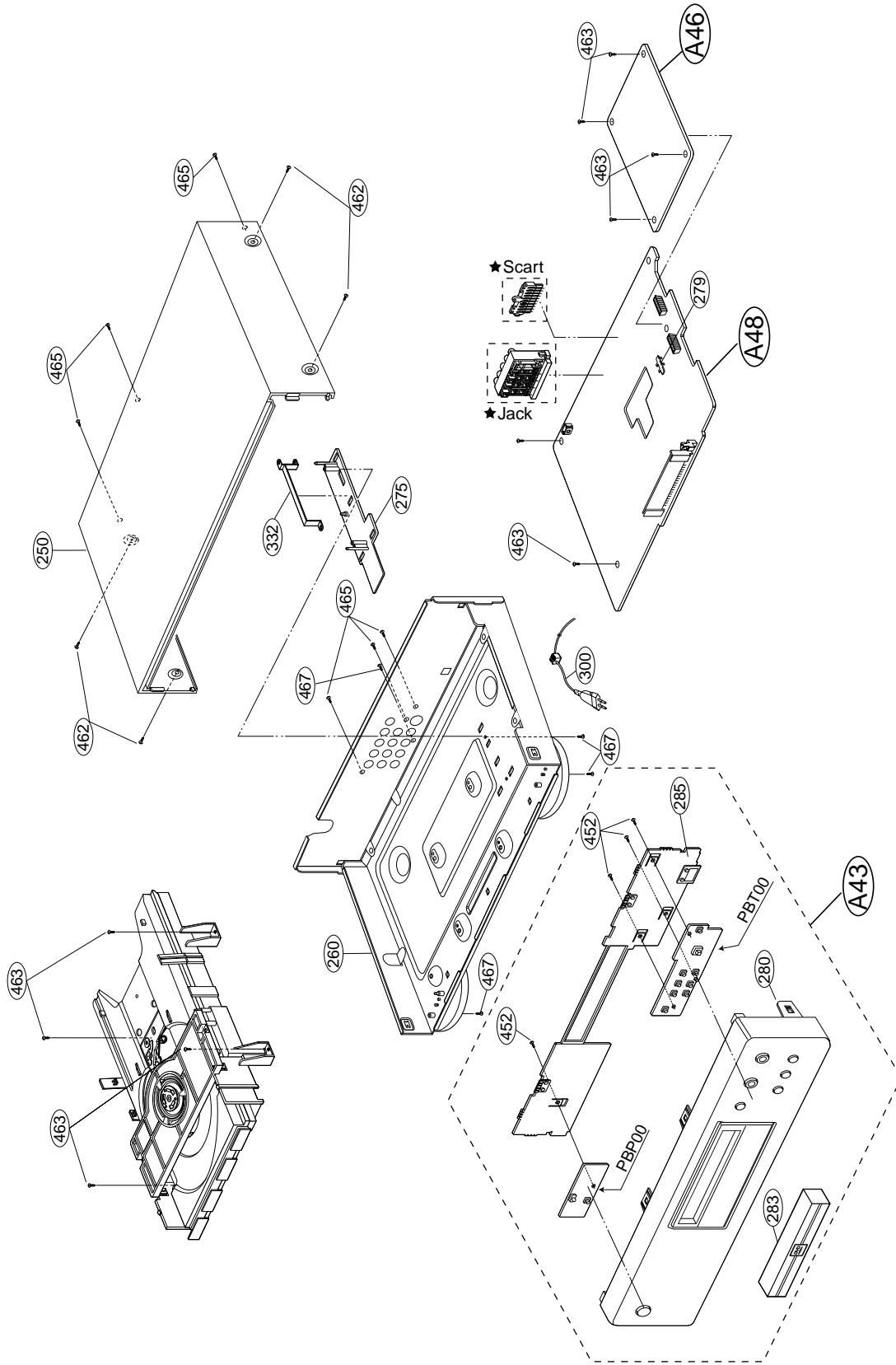
5

4

3

2

1



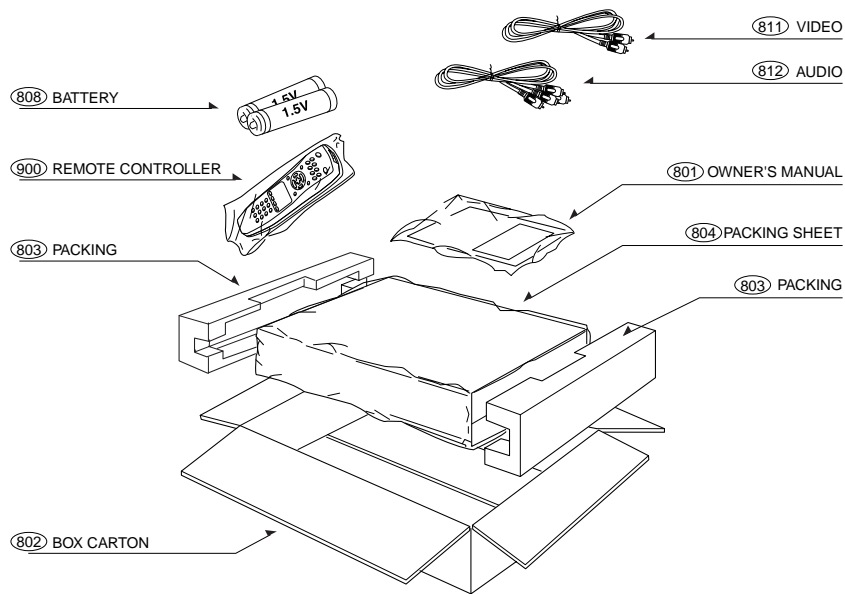
A

B

C

D

2.Packing Accessory Section



POS. NO.	VERS. COLOR	PART NO. (ANAM)	DESCRIPTON	PART NO. (MJI)
250		nsp	TOP COVER (BLACK)	nsp
260	/N1B	nsp	CHASSIS ASSY MAIN (/N1B)	nsp
275		nsp	HOLDER MAIN PCB	nsp
279		nsp	HOLDER CONNECTOR	nsp
280	/N1B	9965 000 06951	PANEL ASSY FRONT (/N1B)	304W248510
283	/N1B	9965 000 06952	DOOR ASSY (BLACK)	304W063500
300	/N1B	9965 000 06953	MAINS CORD (/N1B)	*YC000510R
332		nsp	PLATE MAIN GND	nsp
429		nsp	SCREW B-TITE	nsp
430		nsp	SCREW +D2.0 6MM	nsp
			SWRCH16A/NIY 4.5MM	
430		nsp	SCREW +D2.0 6MM	nsp
			SWRCH16A/NIY 4.5MM	
431		nsp	SCREW +D2.0 6MM	
			SWRCH16A/ZNBK 4MM 1	nsp
432		nsp	SCREW MACHINE	nsp
432		nsp	SCREW MACHINE	nsp
452		nsp	SCREW SPECIAL	nsp
462		nsp	SCREW DECORATION	nsp
463		nsp	SCREW SPECIAL	nsp
465		nsp	SCREW SPECIAL (3X10 BK)	nsp
467		nsp	SCREW SPECIAL (3X8 BK)	nsp

POS. NO.	VERS. COLOR	PART NO. (ANAM)	DESCRIPTON	PART NO. (MJI)
801	/N1B	9965 000 06954	USER GUIDE (/N1B)	304W851310
802		nsp	BOX	nsp
803		nsp	PACKING	nsp
804		nsp	SHEE	nsp
808		nsp	BATTERY AAA(R03)	nsp
811		nsp	PHONO CORD (YL)	nsp
812		nsp	PHONO CORD (RD/WH)	nsp
900		9965 000 06955	REMOTE CONTROLLER	ZK304W0010

SECTION 3

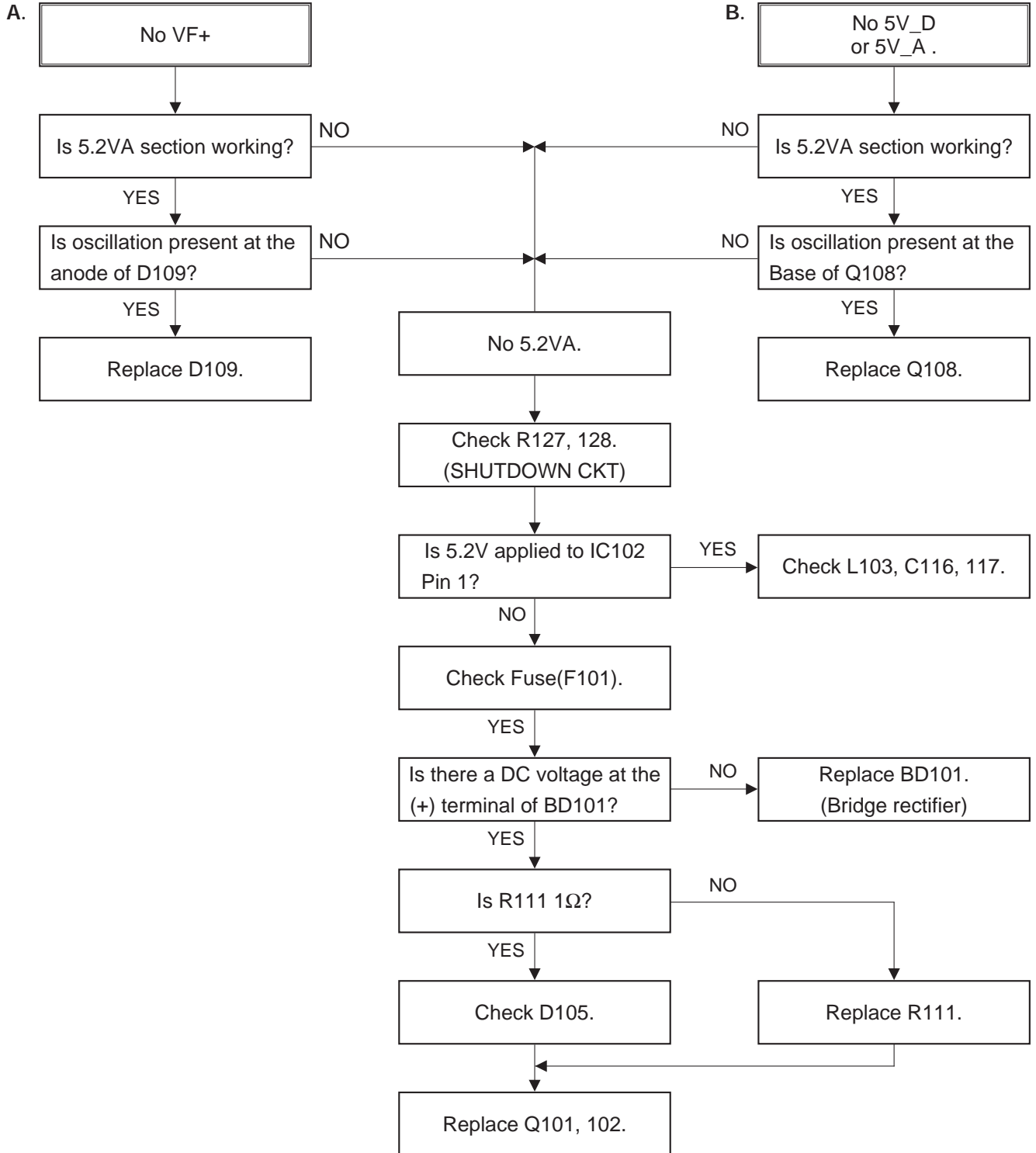
ELECTRICAL

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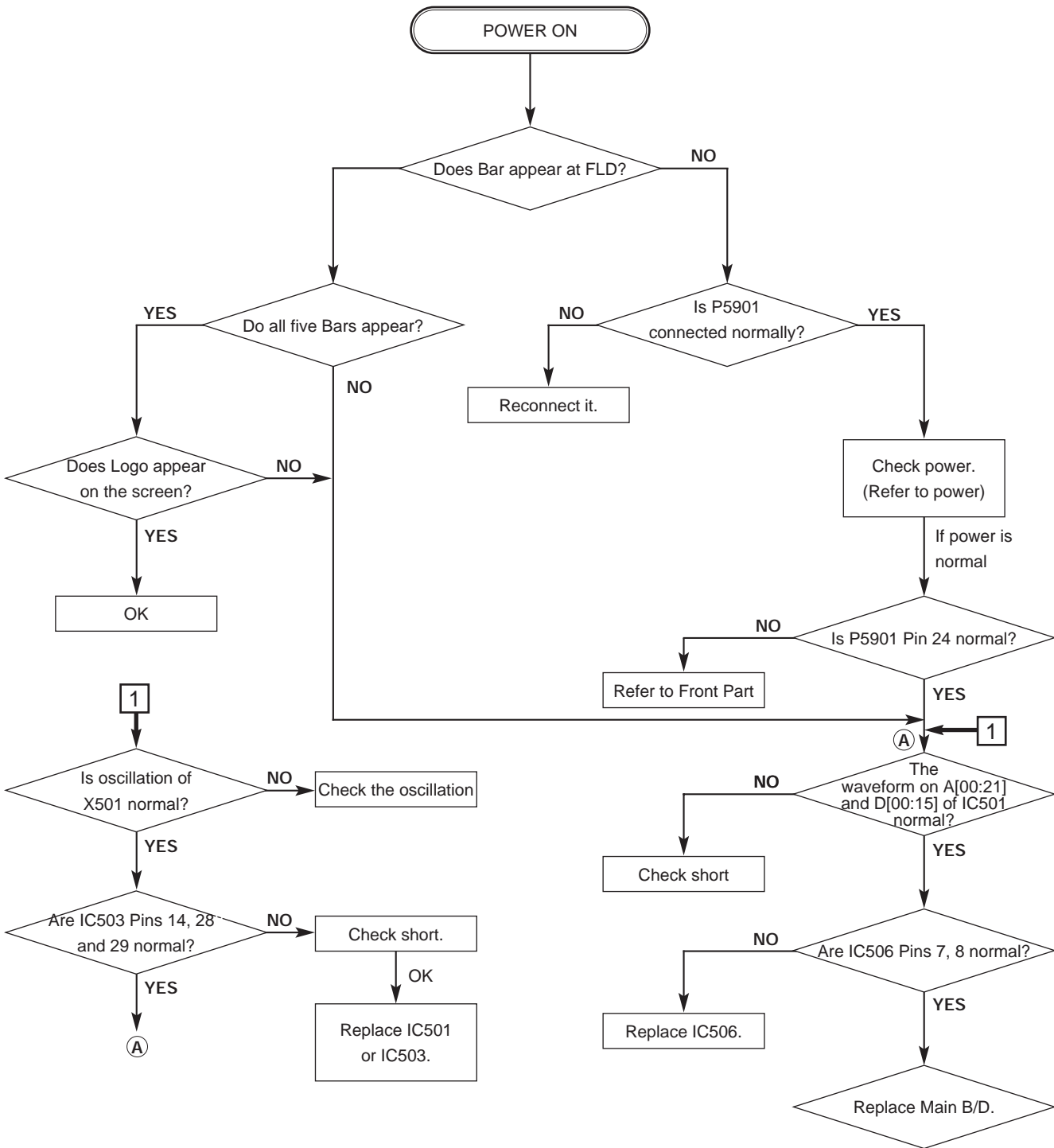
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3. MPEG Circuit	3-6
4. Front Circuit(Digitron & Key)	3-7
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ELECTRICAL TROUBLESHOOTING GUIDE

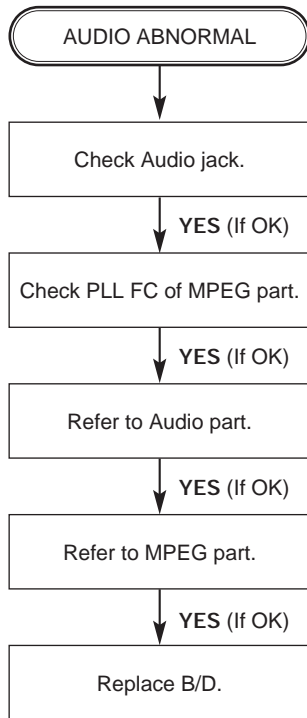
1. Power(SMPS) Circuit



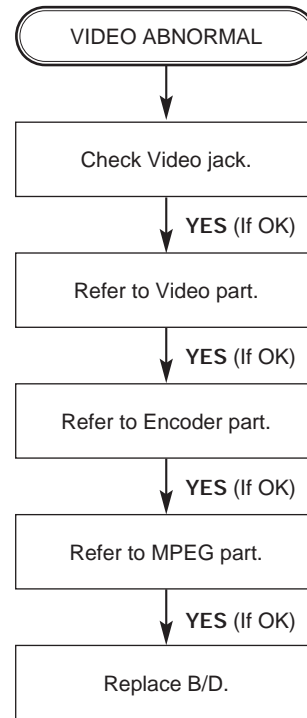
2. μ -COM Circuit
A. No Power



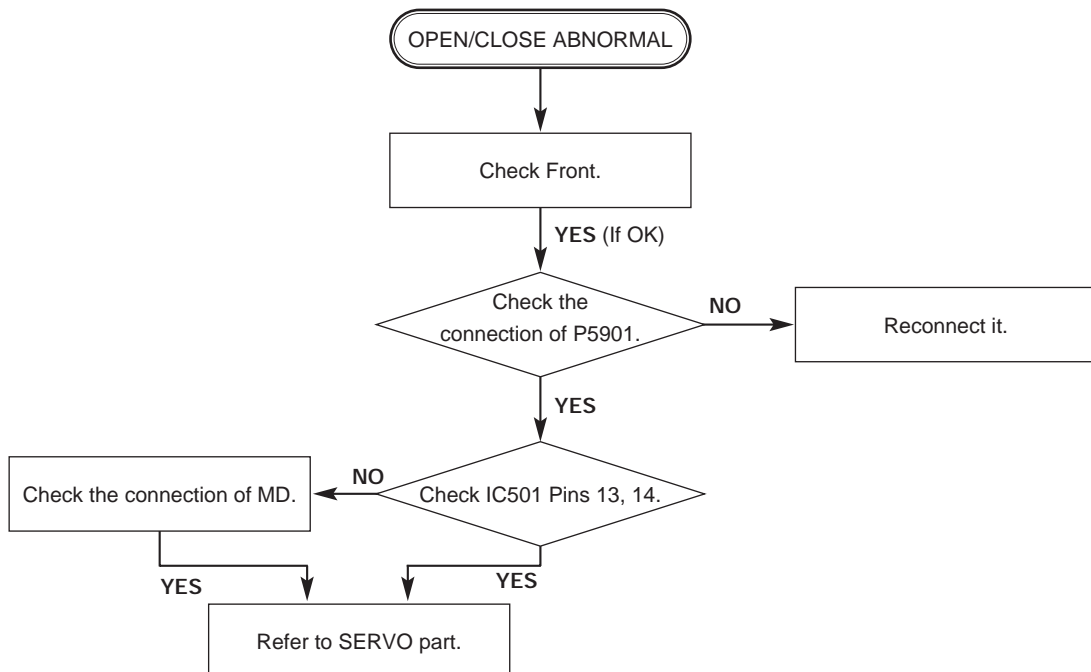
B. Audio abnormal



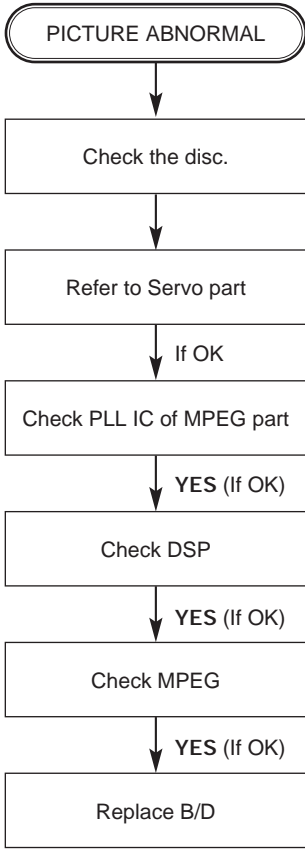
C. Video abnormal



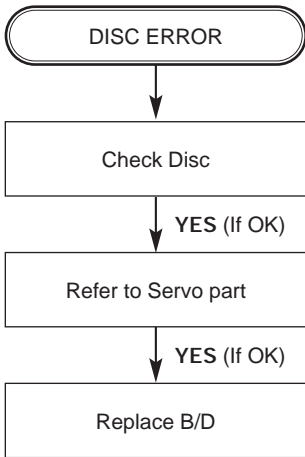
D. Open/Close abnormal



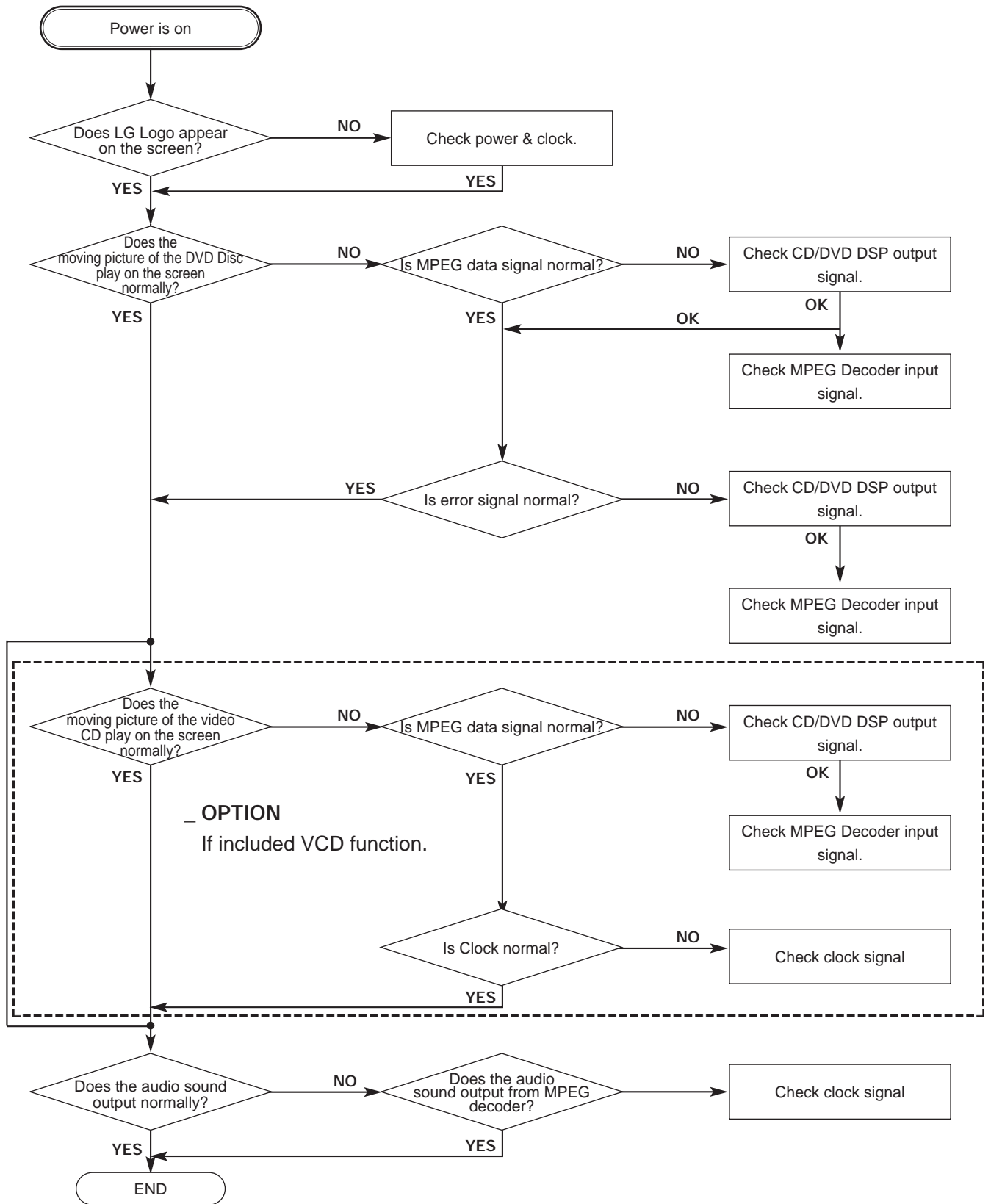
E. Picture abnormal



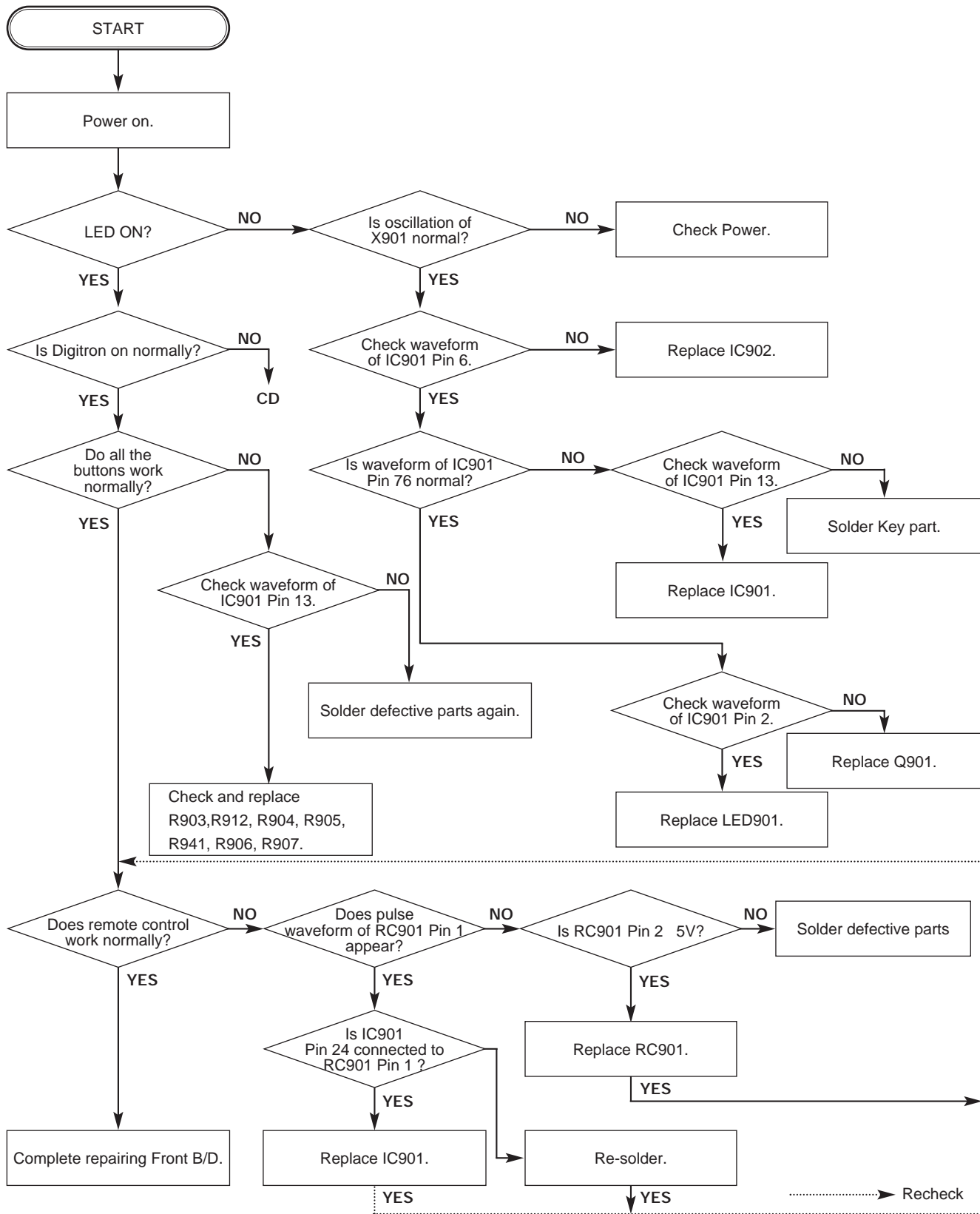
F. Disc Error



3. MPEG Circuit

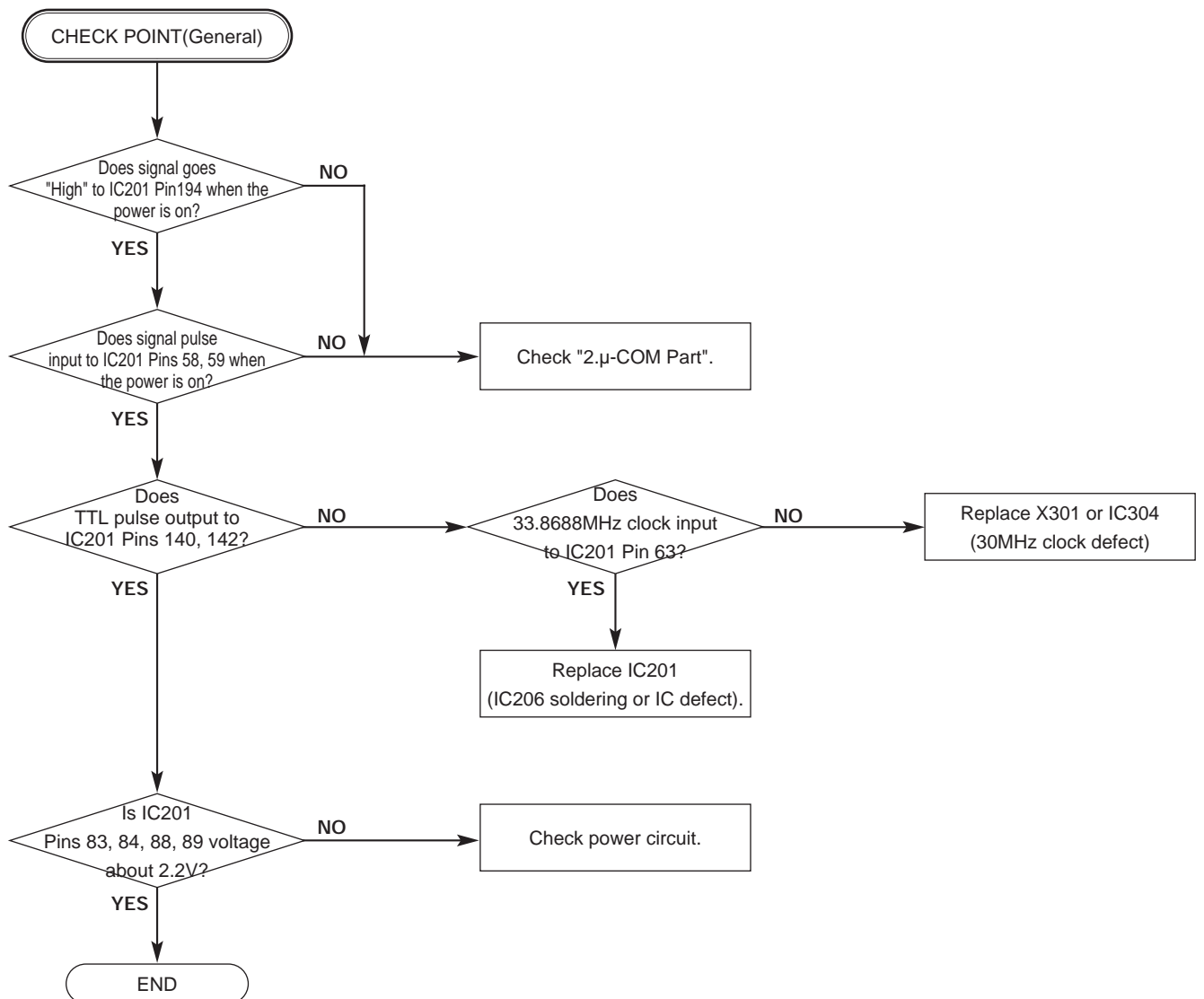


4. Front Circuit (Digitron & key)

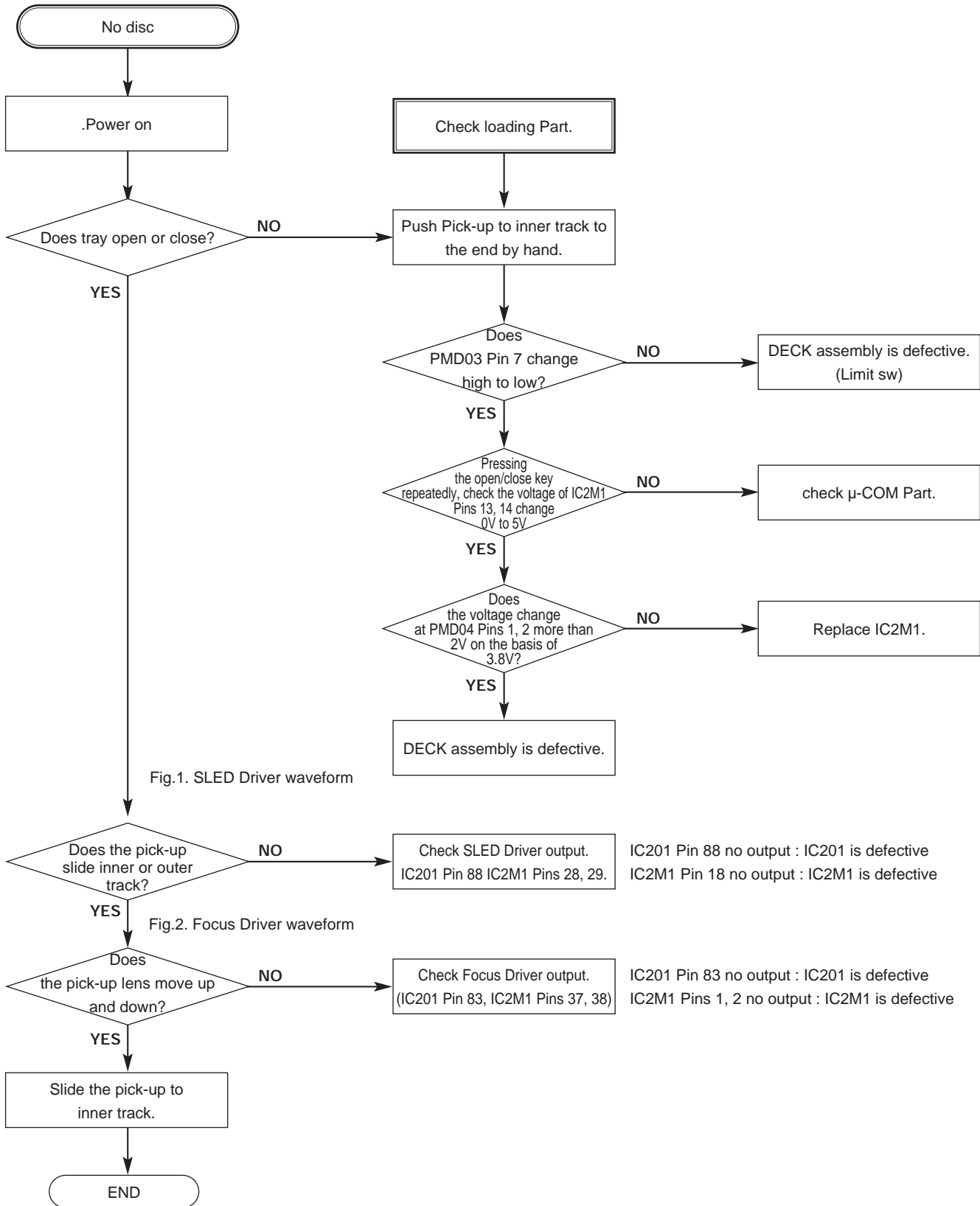


5. RF/Servo Circuit

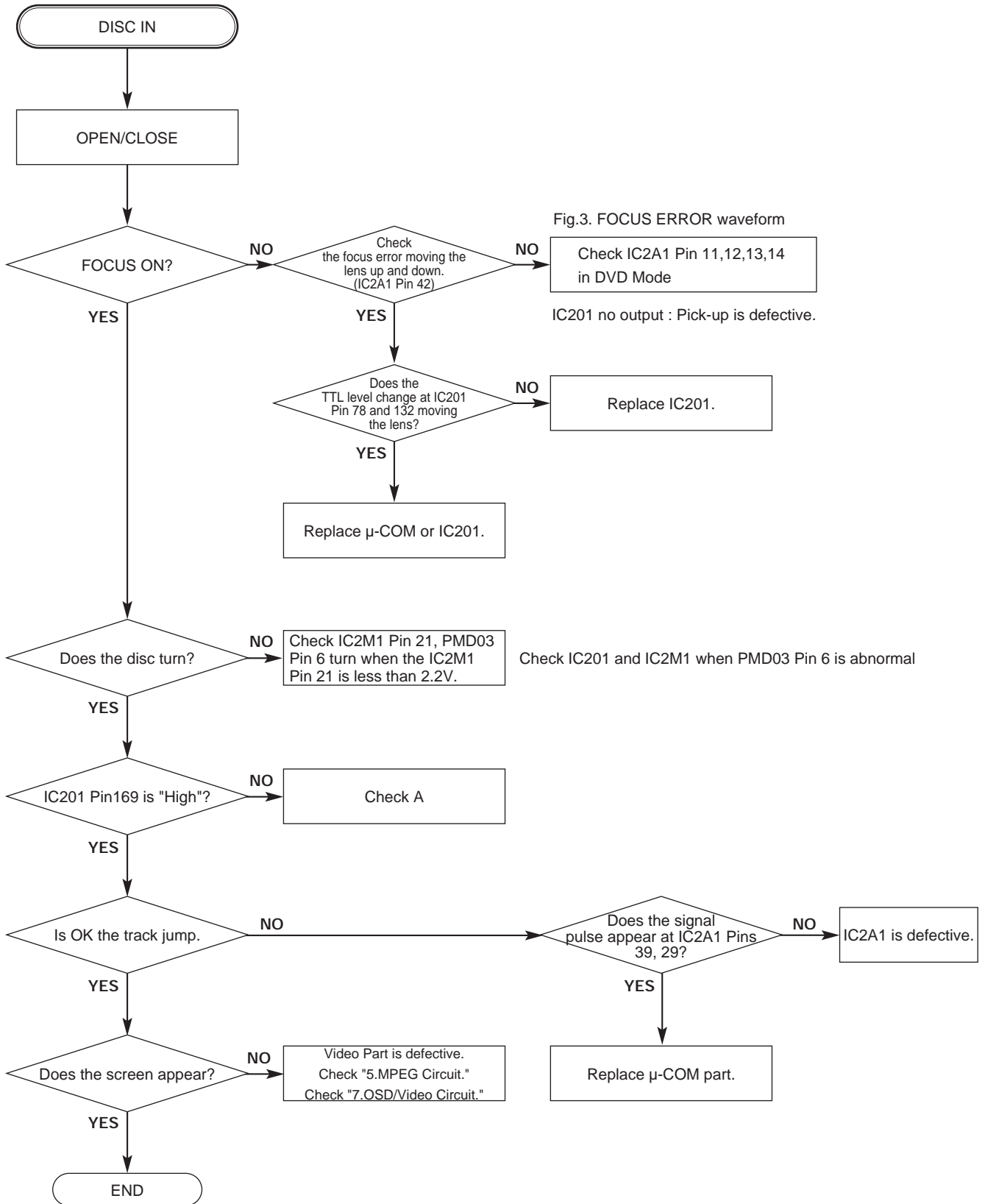
A.



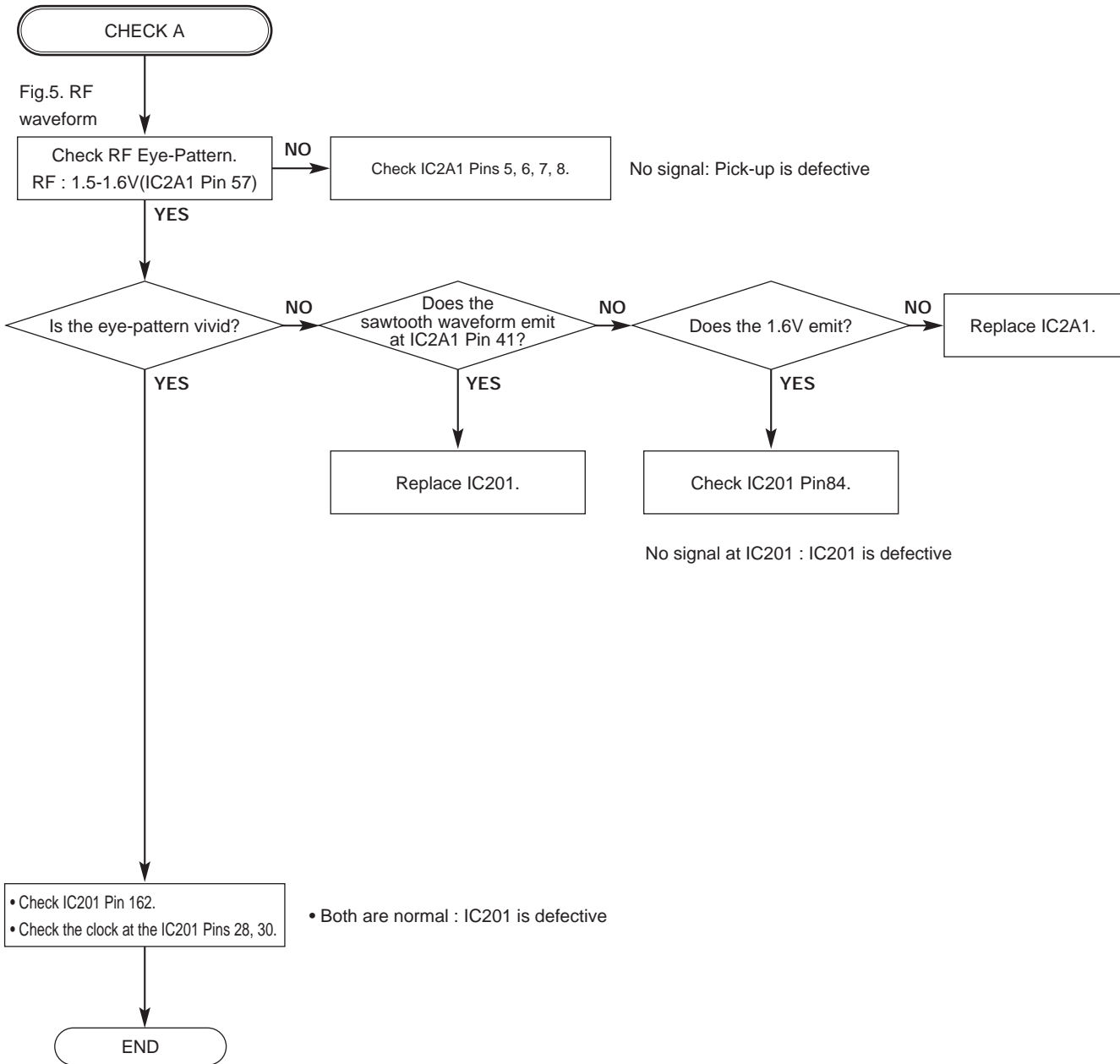
B.



C.

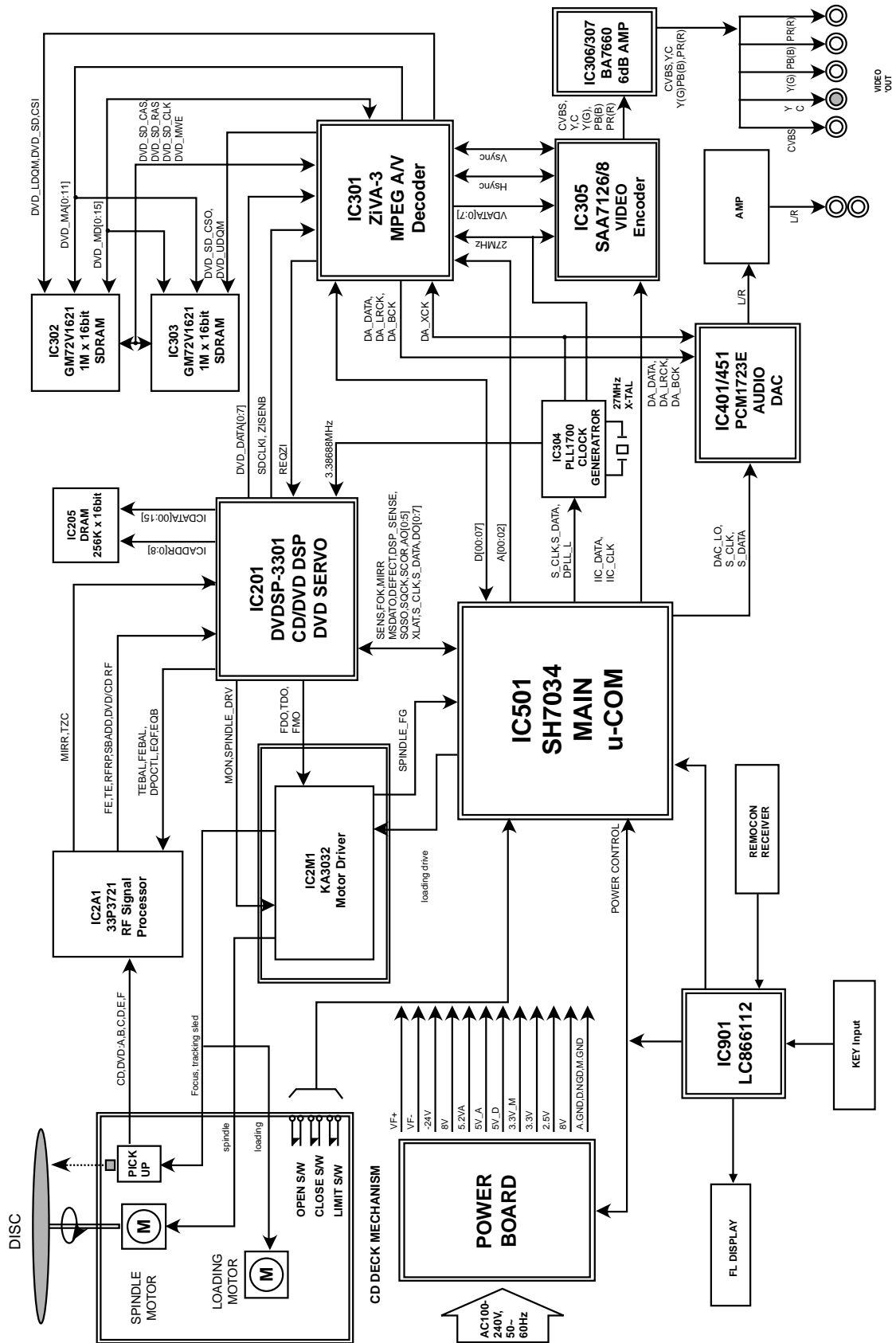


D.

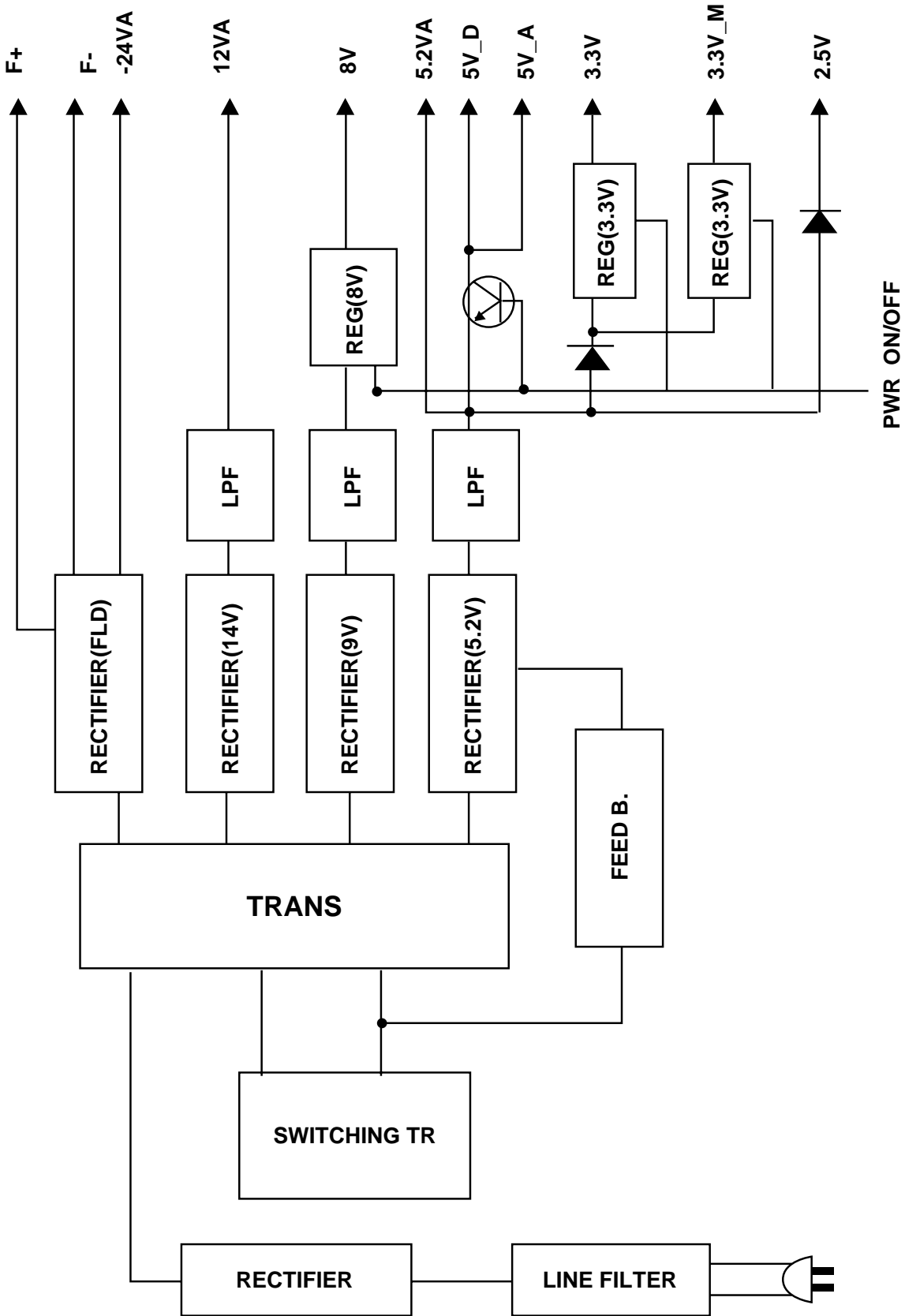


BLOCK DIAGRAMS

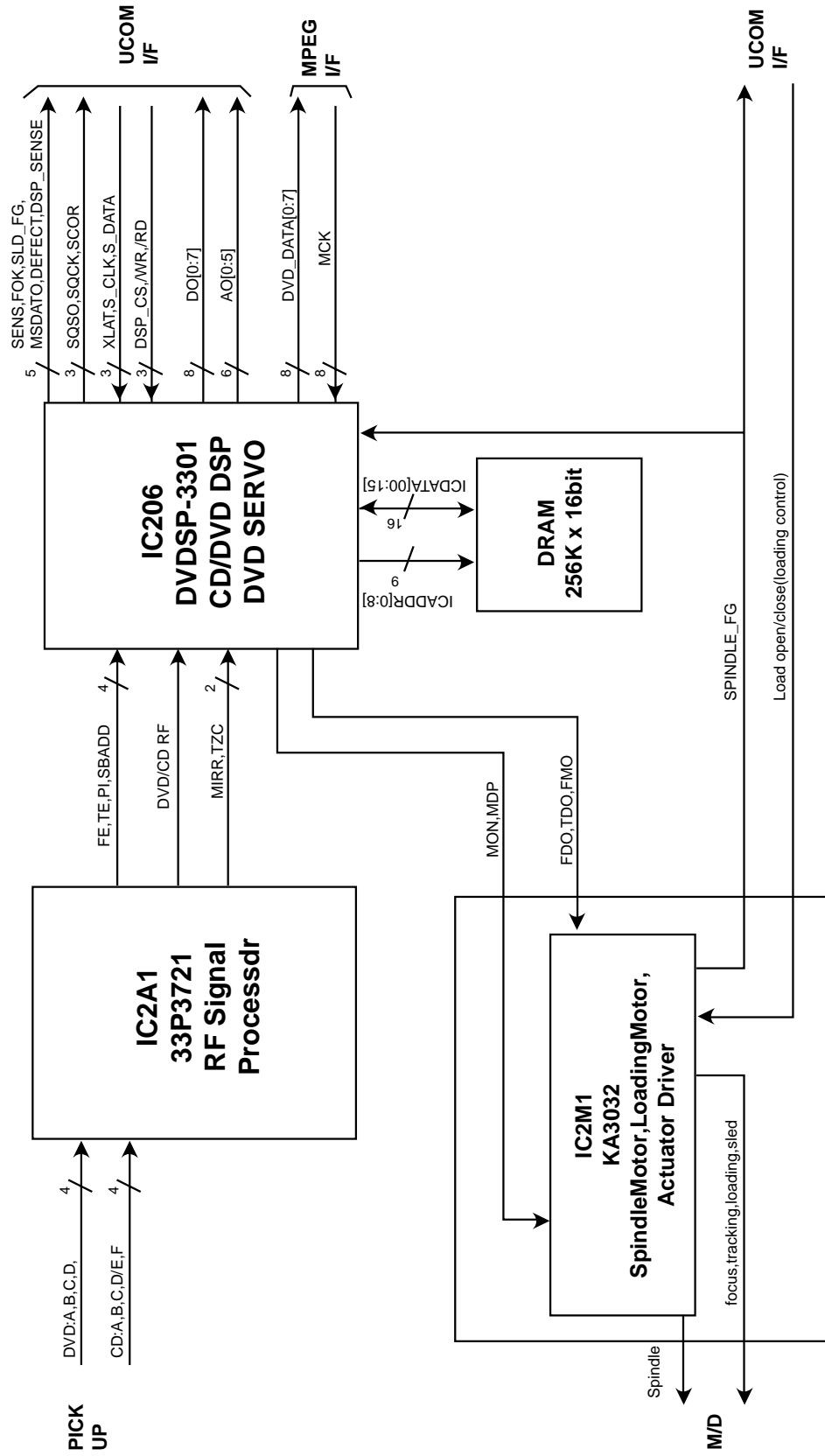
1. Overall Block Diagram



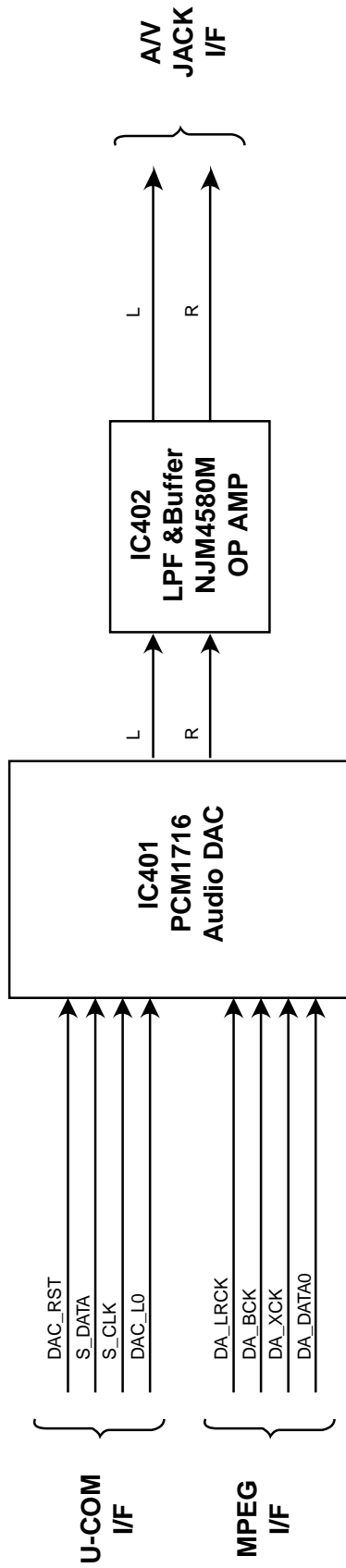
2. Power(SMPS) Block Diagram



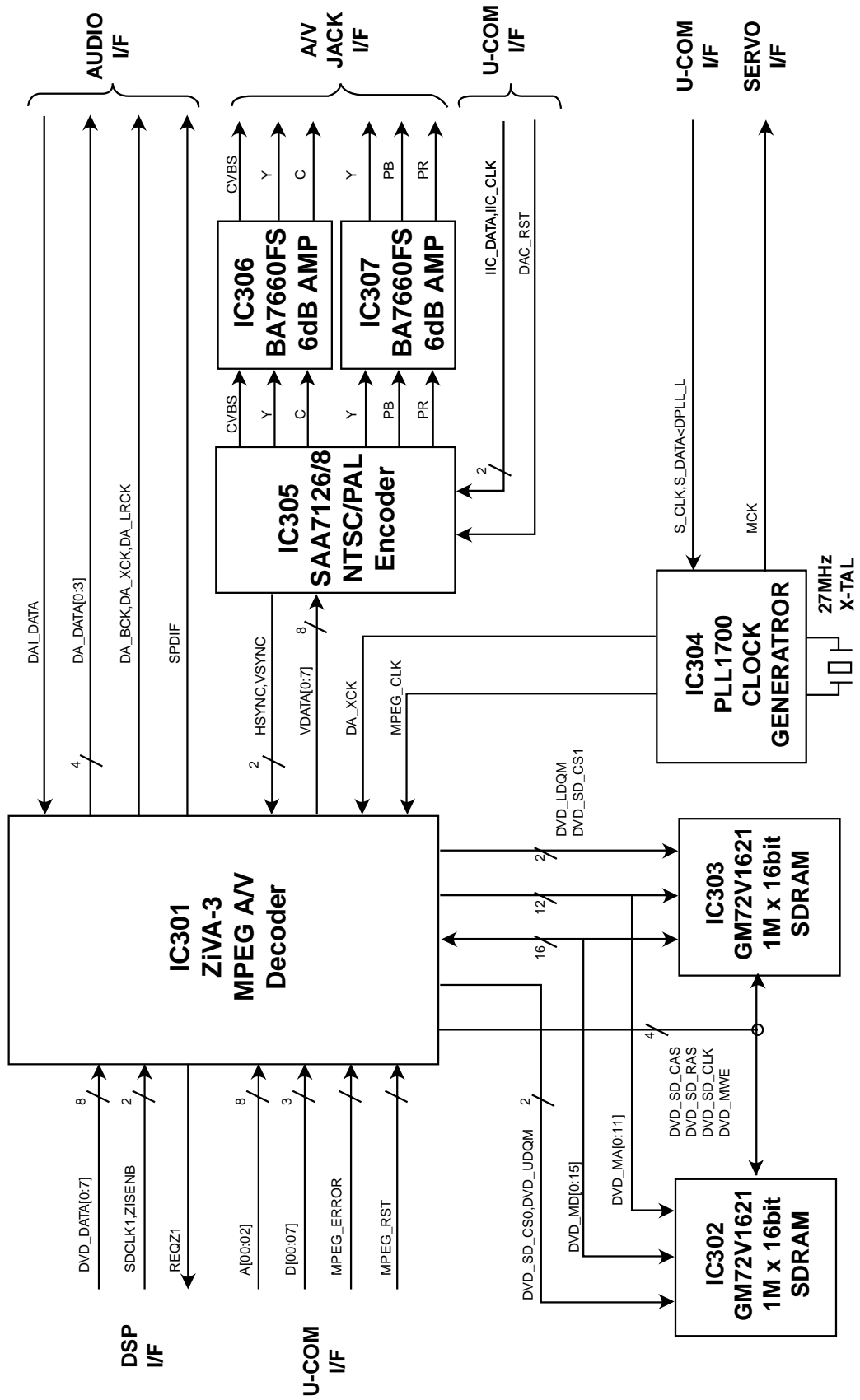
3. RF/CD DSP/DVD DSP/DVD SERVO Block Diagram



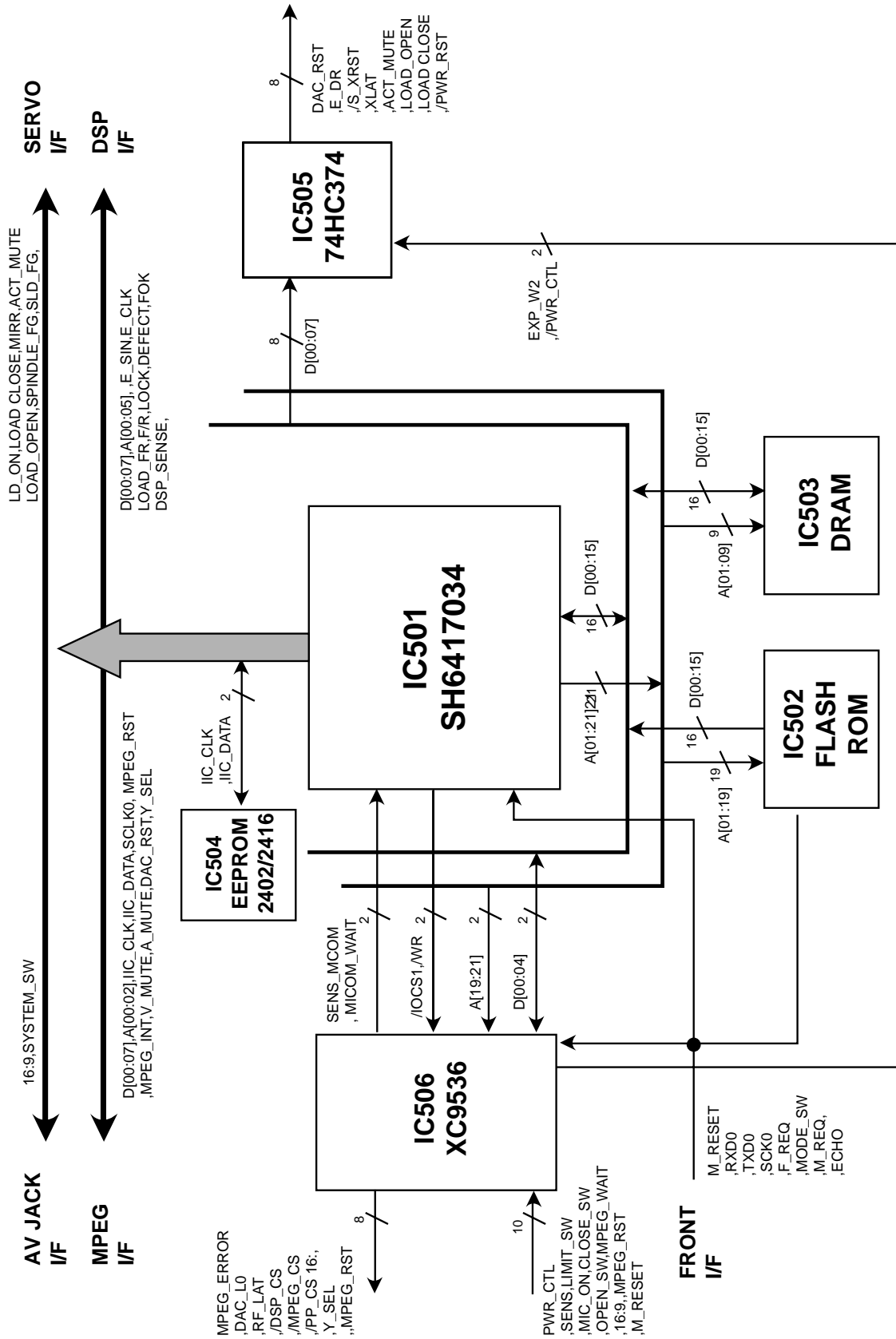
4. Audio Block Diagram



5. MPEG Block Diagram



6. μ -COM Block Diagram



CIRCUIT DIAGRAM

1. POWER(SMPS) CIRCUIT DIAGRAM (DV3100/U1B,/F1N)

IMPORTANT SAFETY NOTICE

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

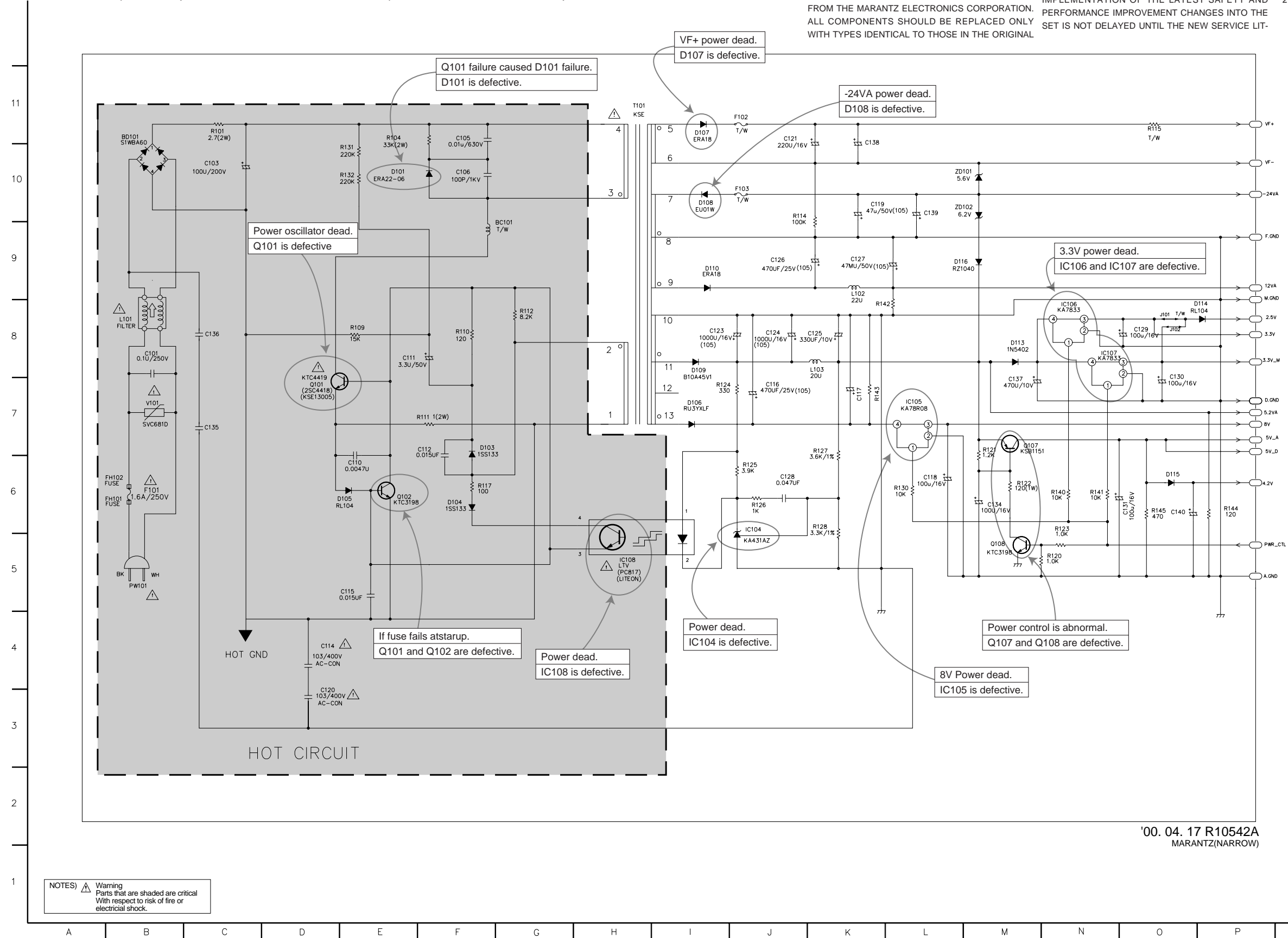
CIRCUIT. SPECIAL COMPONENTS ARE SHADED ON THE SCHEMATIC FOR EASY IDENTIFICATION. THIS CIRCUIT DIAGRAM MAY OCCASIONALLY DIFFER FROM THE ACTUAL CIRCUIT USED. THIS WAY, IMPLEMENTATION OF THE LATEST SAFETY AND PERFORMANCE IMPROVEMENT CHANGES INTO THE SET IS NOT DELAYED UNTIL THE NEW SERVICE LIT-

NOTE :

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

LOCATION GUIDE

C101	B8
C103	C10
C105	F11
C106	F10
C110	E6
C111	E8
C112	F7
C114	D4
C115	E5
C116	J7
C117	K7
C118	L6
C119	K10
C120	D3
C121	J11
C123	I8
C124	J8
C125	K8
C126	J9
C127	K9
C128	J6
C129	O8
C130	O7
C131	O6
C134	M6
C135	C7
C136	C8
C137	M7
C138	K10
C139	L10
C140	O6
D101	E10
D103	F7
D104	F6
D105	D6
D106	I7
D107	I11
D108	I10
D109	I8
D110	I9
D113	M8
D114	O8
D115	O6
D116	L9
F102	J11
F103	J10
FH101	B6
FH102	B6
IC104	J6
IC105	L7
IC106	N8
IC107	N8
IC108	H5
J101	O8
J102	O8
L101	B8
L102	K9
L103	K8
Q101	D7
Q102	E6
Q107	M7
Q108	M5
R101	C11
R104	E11
R109	E8
R110	F8
R111	F7
R112	G8
R114	J10
R115	O11
R117	F6
R120	N5
R121	M7
R122	M6
R123	N6
R124	I7
R125	J6
R126	J6
R127	K7
R128	K6
R130	L6
R131	E10
R132	E10
R140	N6
R141	N6
R142	K8
R143	K7
R144	P6
R145	O6
T101	H11
V101	B7
ZD101	L10
ZD102	L10



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MARANTZ(NARROW)

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

1. POWER(SMPS) CIRCUIT DIAGRAM (DV3100/A1B,/N1B)

IMPORTANT SAFETY NOTICE

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

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

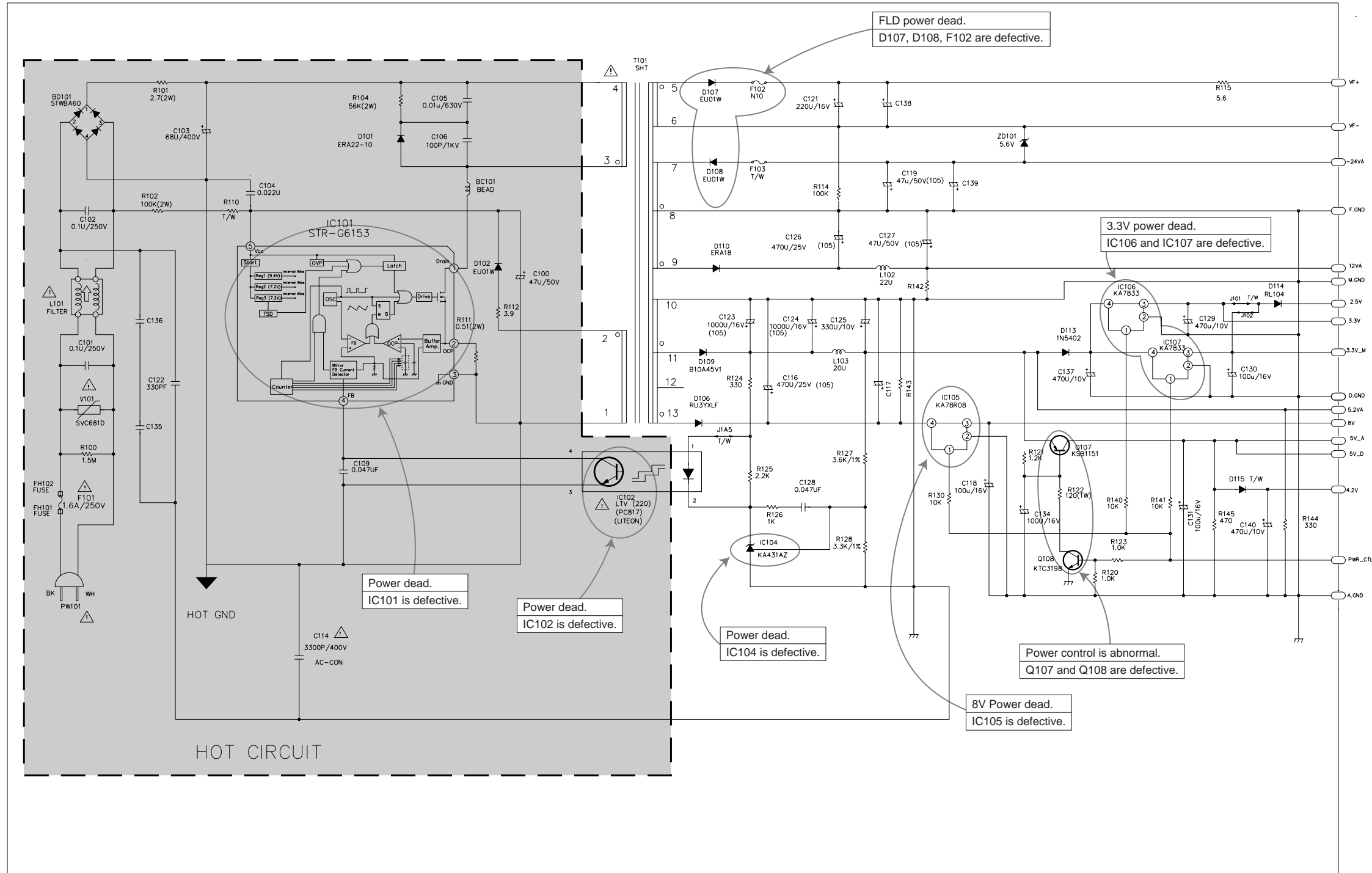
VICE LITERATURE IS PRINTED.

NOTE :

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

LOCATION GUIDE

BC101	G10
BD101	B11
C100	G9
C101	B8
C102	B9
C103	C10
C104	D10
C105	F11
C106	F10
C109	E6
C114	E4
C116	J7
C117	K7
C118	L6
C119	K10
C121	J11
C122	C7
C123	I8
C124	J8
C125	K8
C126	J9
C127	K9
C128	J6
C129	O8
C130	O7
C131	O6
C134	M6
C135	C7
C136	C8
C137	M7
C138	K10
C139	L10
C140	O6
D101	P7
D102	F9
D106	I7
D107	I11
D108	I10
D109	I8
D110	I9
D113	MB
D114	O8
D115	O6
F102	J11
F103	J10
FH101	B6
FH102	B6
IC101	E9
IC102	H6
IC104	J6
IC105	L7
IC106	N8
IC107	N8
J101	O8
J102	O8
J1A5	I7
L101	B8
L102	K9
L103	K8
PW101	B5
Q107	M7
Q108	M5
R100	B7
R101	C11
R102	C9
R104	E11
R110	D9
R111	F8
R112	G8
R114	J10
R115	O11
R120	N5
R121	M7
R122	M6
R123	N6
R124	I7
R125	J6
R126	J6
R127	K7
R128	K6
R130	L6
R140	N6
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R144	P6
R145	O6
T101	H11
V101	B7
ZD101	L10

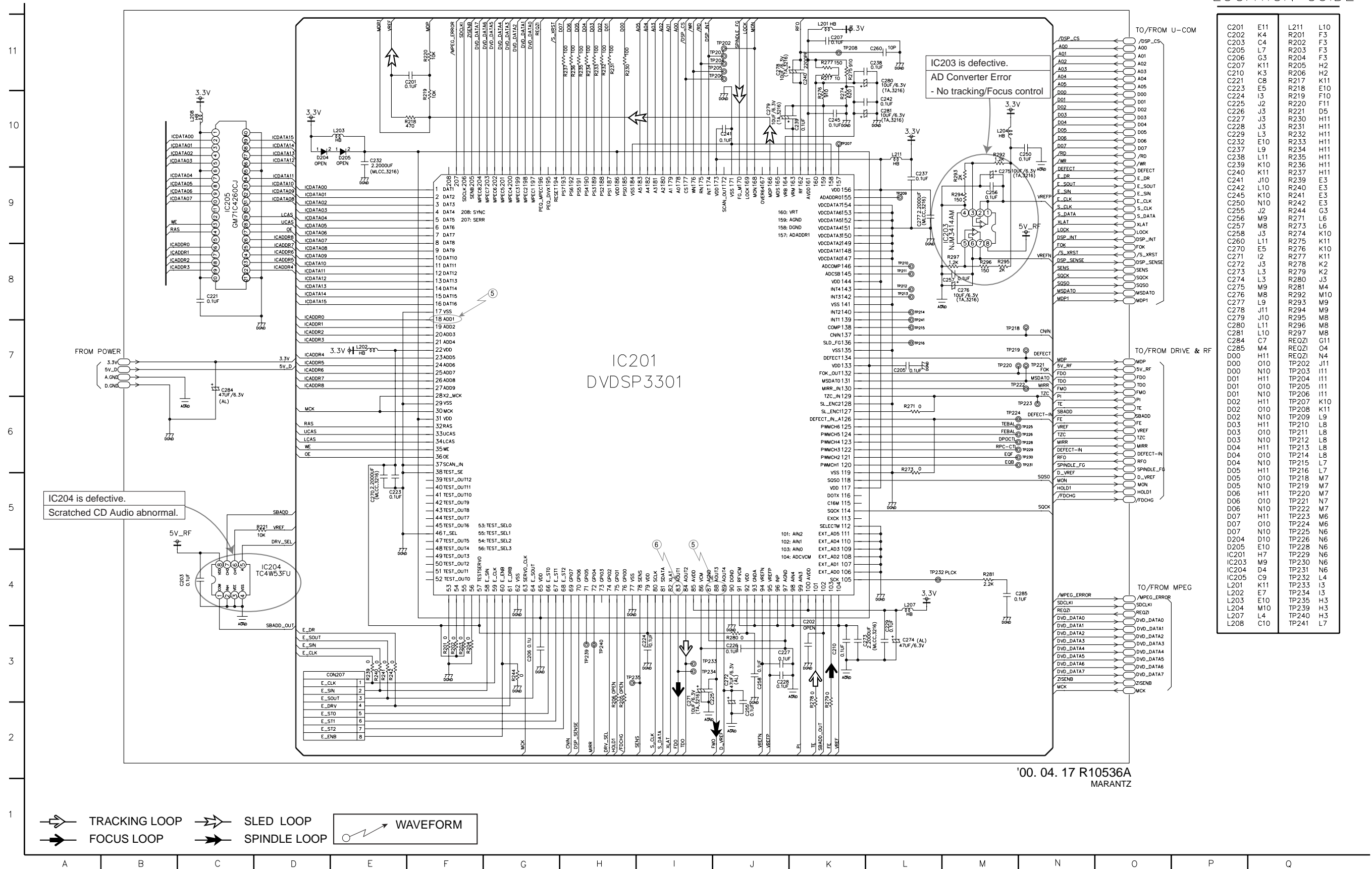


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MARANTZ(WIDE)

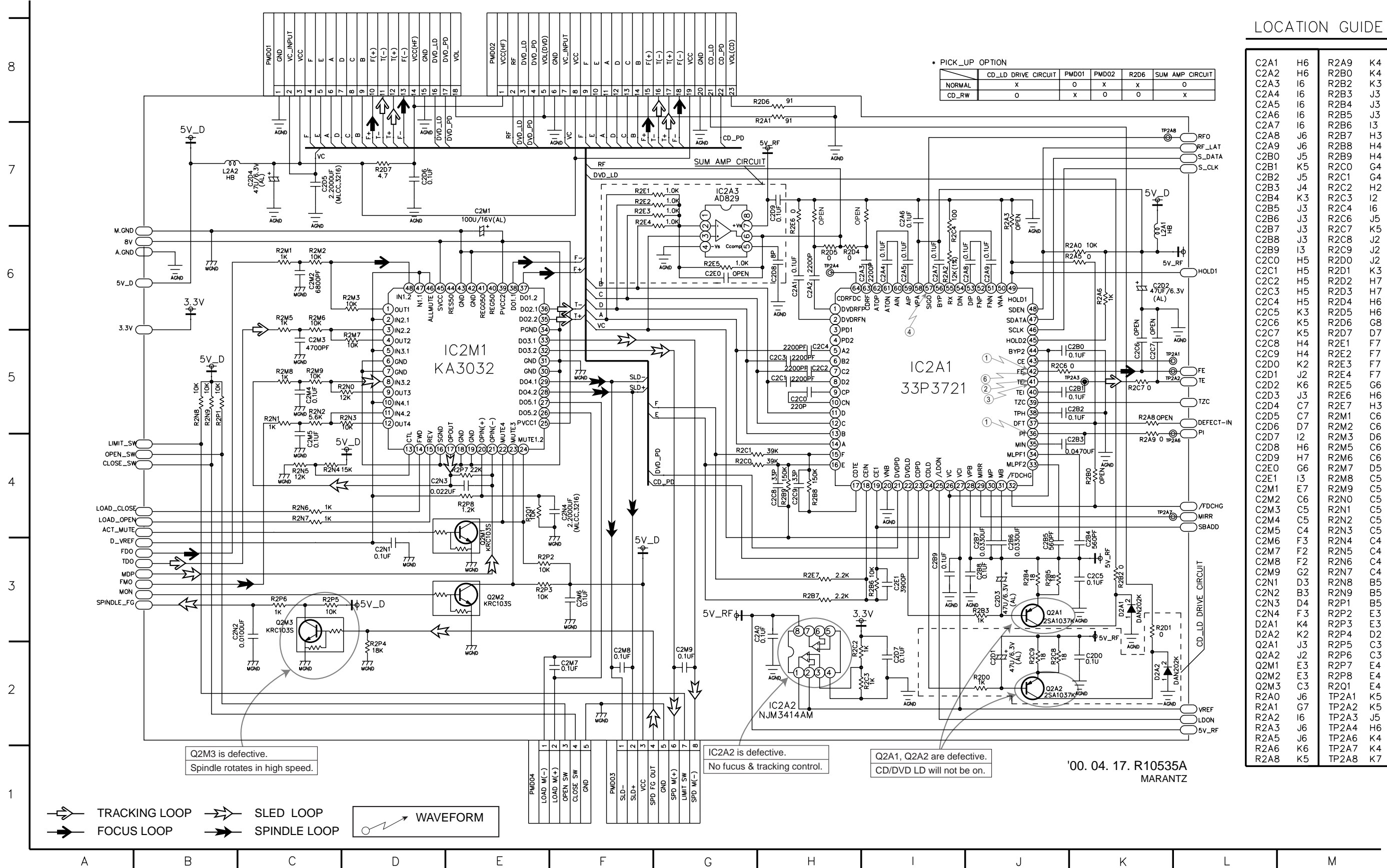
NOTES Warning
Parts that are shaded are critical
With respect to risk of fire or
electrical shock.

2. DVD DSP CIRCUIT DIAGRAM

LOCATION GUIDE



3. DRIVE & RF CIRCUIT DIAGRAM



LOCATION GUIDE

C2A1	H6	R2A9	K4
C2A2	H6	R2B0	K4
C2A3	I6	R2B2	K3
C2A4	I6	R2B3	J3
C2A5	I6	R2B4	J3
C2A6	I6	R2B5	J3
C2A7	I6	R2B6	I3
C2A8	J6	R2B7	H3
C2A9	J6	R2B8	H4
C2B0	J5	R2B9	H4
C2B1	K5	R2C0	G4
C2B2	J5	R2C1	G4
C2B3	J4	R2C2	H2
C2B4	K3	R2C3	I2
C2B5	J3	R2C4	I6
C2B6	J3	R2C6	J5
C2B7	J3	R2C7	K5
C2B8	J3	R2C8	J2
C2B9	I3	R2C9	J2
C2C0	H5	R2D0	J2
C2C1	H5	R2D1	K3
C2C2	H5	R2D2	H7
C2C3	H5	R2D3	H7
C2C4	H5	R2D4	H6
C2C5	K3	R2D5	H6
C2C6	K5	R2D6	G8
C2C7	K5	R2D7	D7
C2C8	H4	R2E1	F7
C2C9	H4	R2E2	F7
C2D0	K2	R2E3	F7
C2D1	J2	R2E4	F7
C2D2	K6	R2E5	G6
C2D3	J3	R2E6	H6
C2D4	C7	R2E7	H3
C2D5	C7	R2M1	C6
C2D6	D7	R2M2	C6
C2D7	I2	R2M3	D6
C2D8	H6	R2M5	C6
C2D9	H7	R2M6	C6
C2E0	G6	R2M7	D5
C2E1	I3	R2M8	C5
C2M1	E7	R2M9	C5
C2M2	C6	R2N0	C5
C2M3	C5	R2N1	C5
C2M4	C5	R2N2	C5
C2M5	C4	R2N3	C5
C2M6	F3	R2N4	C4
C2M7	F2	R2N5	C4
C2M8	F2	R2N6	C4
C2M9	G2	R2N7	C4
C2N1	D3	R2N8	B5
C2N2	B3	R2N9	B5
C2N3	D4	R2P1	B5
C2N4	F3	R2P2	E3
D2A1	K4	R2P3	E3
D2A2	K2	R2P4	D2
Q2A1	J3	R2P5	C3
Q2A2	J2	R2P6	C3
Q2M1	E3	R2P7	E4
Q2M2	E3	R2P8	E4
Q2M3	C3	R2Q1	E4
R2A0	J6	TP2A1	K5
R2A1	G7	TP2A2	K5
R2A2	I6	TP2A3	J5
R2A3	J6	TP2A4	H6
R2A5	J6	TP2A6	K4
R2A6	K6	TP2A7	K4
R2A8	K5	TP2A8	K7

* PICK_UP OPTION

	CD_LD DRIVE CIRCUIT	PMD01	PMD02	R2D6	SUM AMP CIRCUIT
NORMAL	x	o	x	x	o
CD_RW	o	x	o	o	x

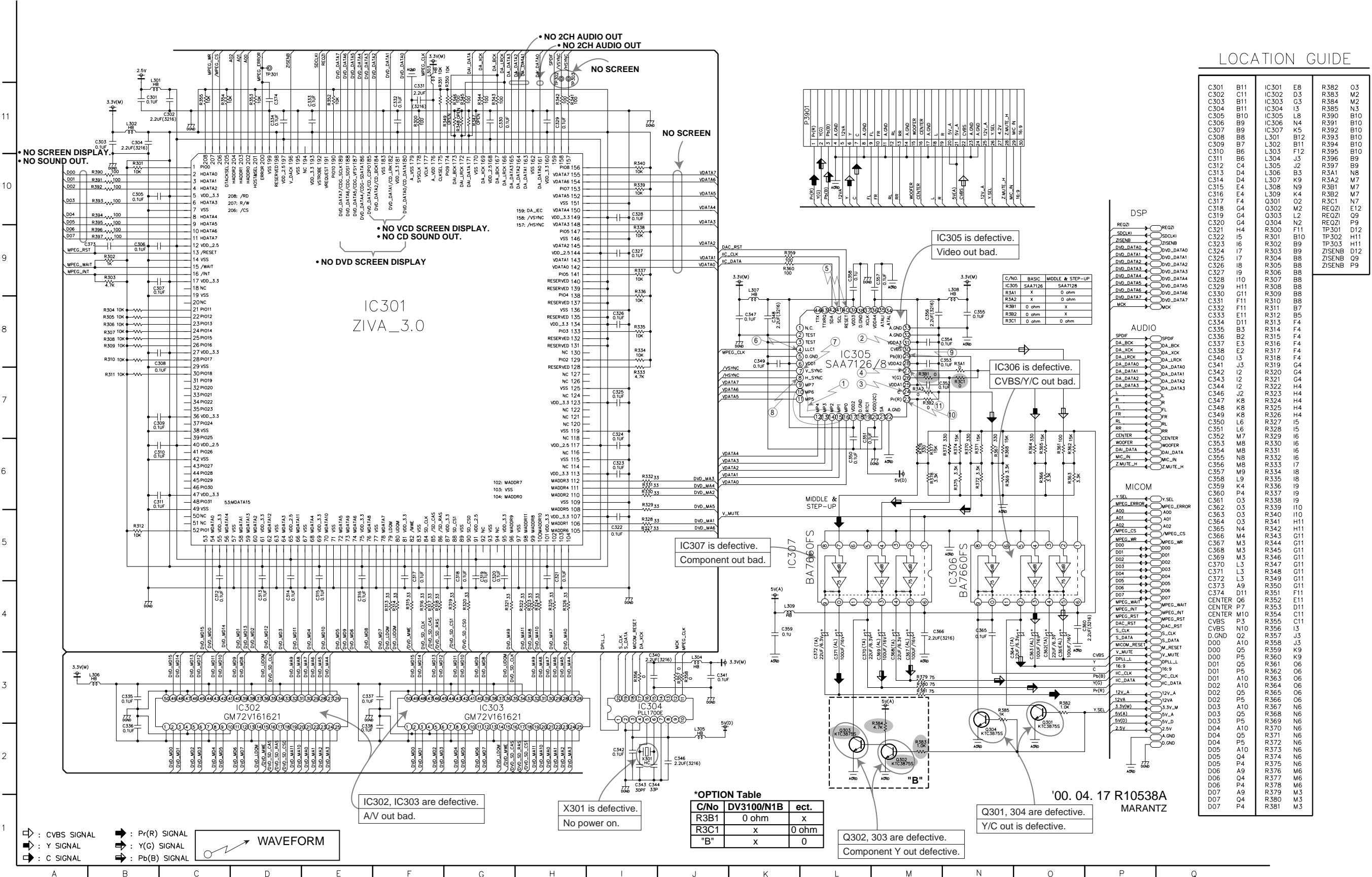
Q2M3 is defective.
Spindle rotates in high speed.

IC2A2 is defective.
No focus & tracking control.

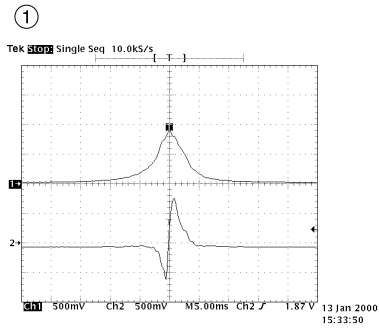
Q2A1, Q2A2 are defective.
CD/DVD LD will not be on.

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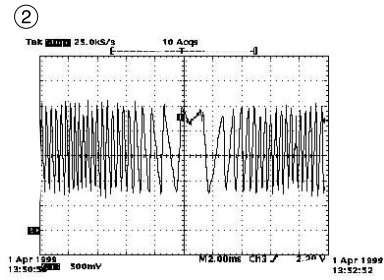
4. MPEG CIRCUIT DIAGRAM



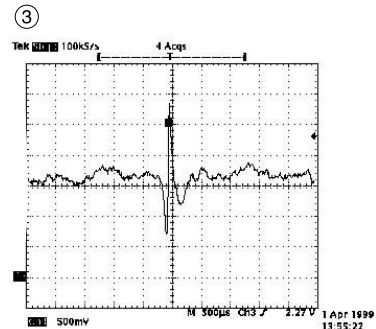
• WAVEFORMS (RF/SERVO)



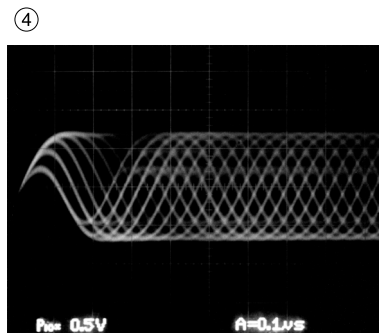
IC2A1 Pin 42, Focus Error
IC2A1 Pin 36, Pi



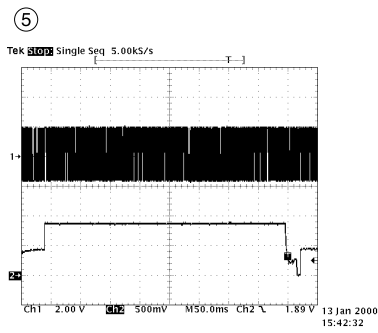
IC2A1 Pin 41
Tracking Error



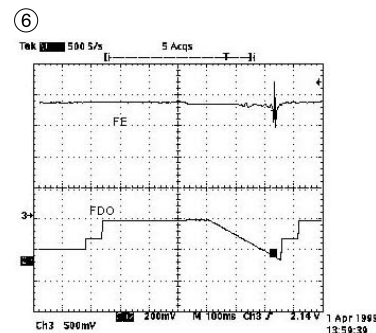
IC2A1 Pin 41
VBR TRACKING Error



IC2A1 Pin 57,
RF

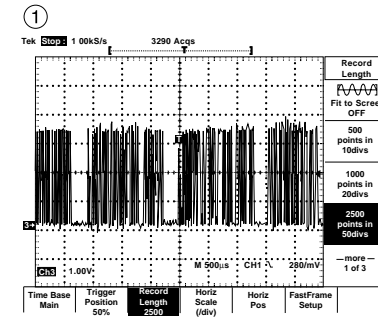


IC201 Pin 88, SLED Drive(FMO)
IC201 Pin 18, SLED FG

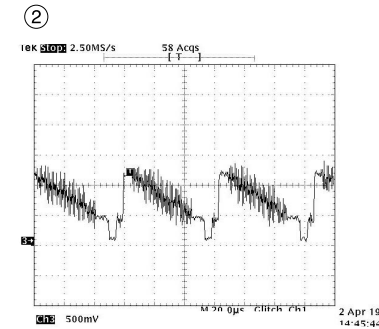


IC2A1 Pin42, Focus Error(in Focus Search)
IC201 Pin 83, Focus Drive(FDO)

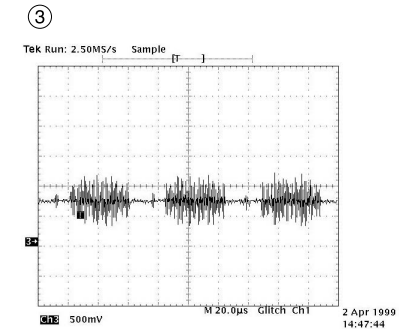
(VIDEO ENCODER)



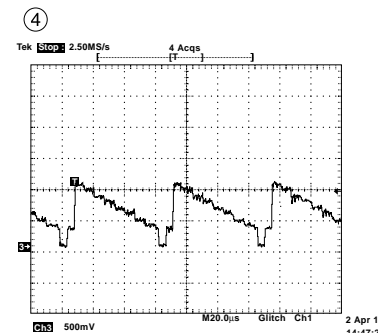
IC305 Pins 9~16, MPEG Data



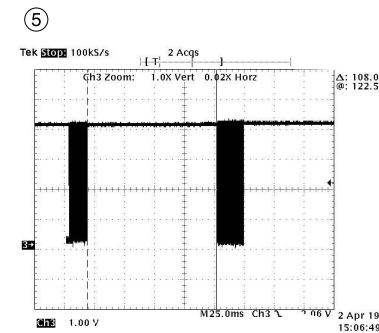
IC305 Pin 30, Composite



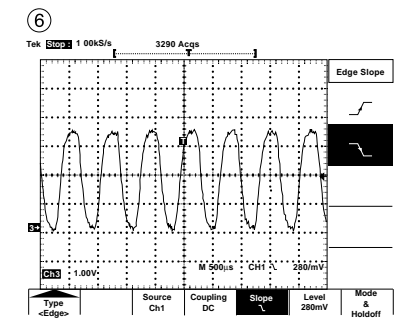
IC305 Pin 24, Chrominance



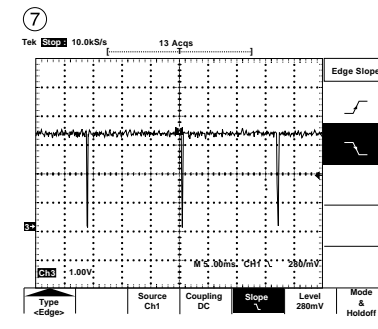
IC305 Pin 27, Luminance



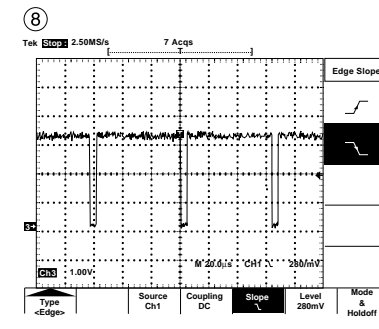
IC305 Pins 40, 41 SDA/SCL



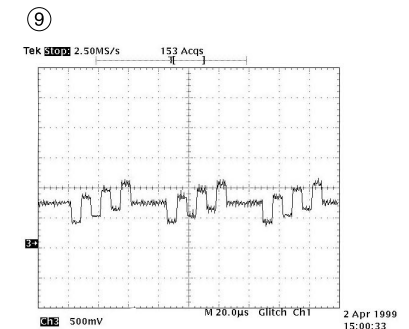
IC305 Pin 4, MPEG Clock(27MHz)



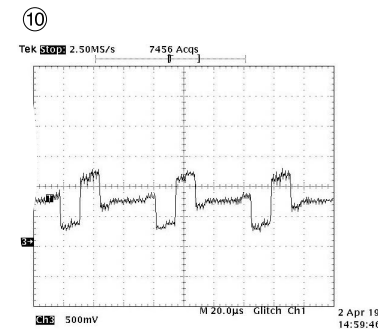
IC305 Pin 7, Vertical SYNC



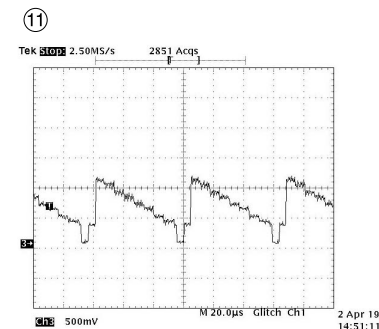
IC305 Pin 8 Horizontal SYNC



IC305 Pin 29 Component Pb



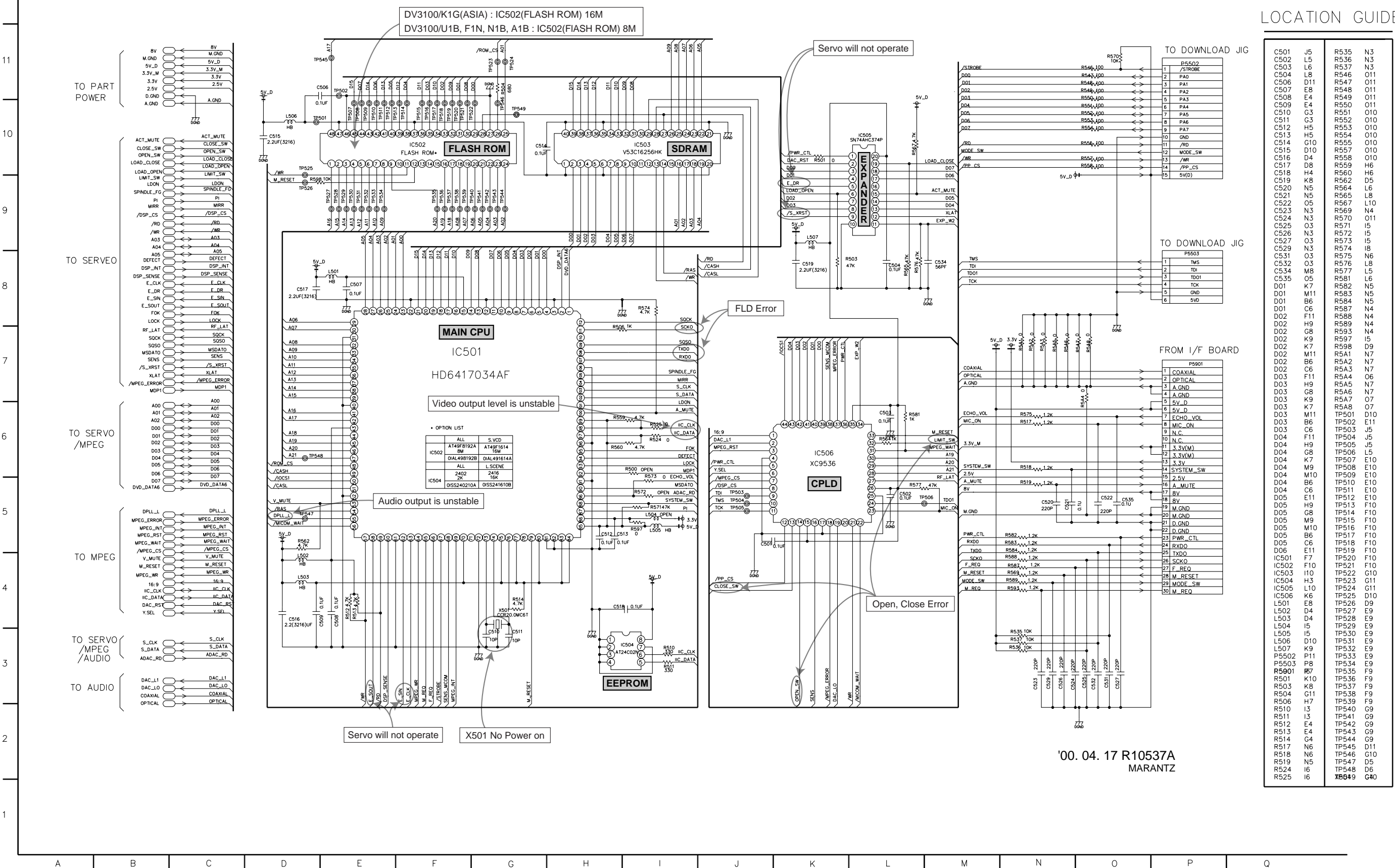
IC305 Pin 23 Component Pr



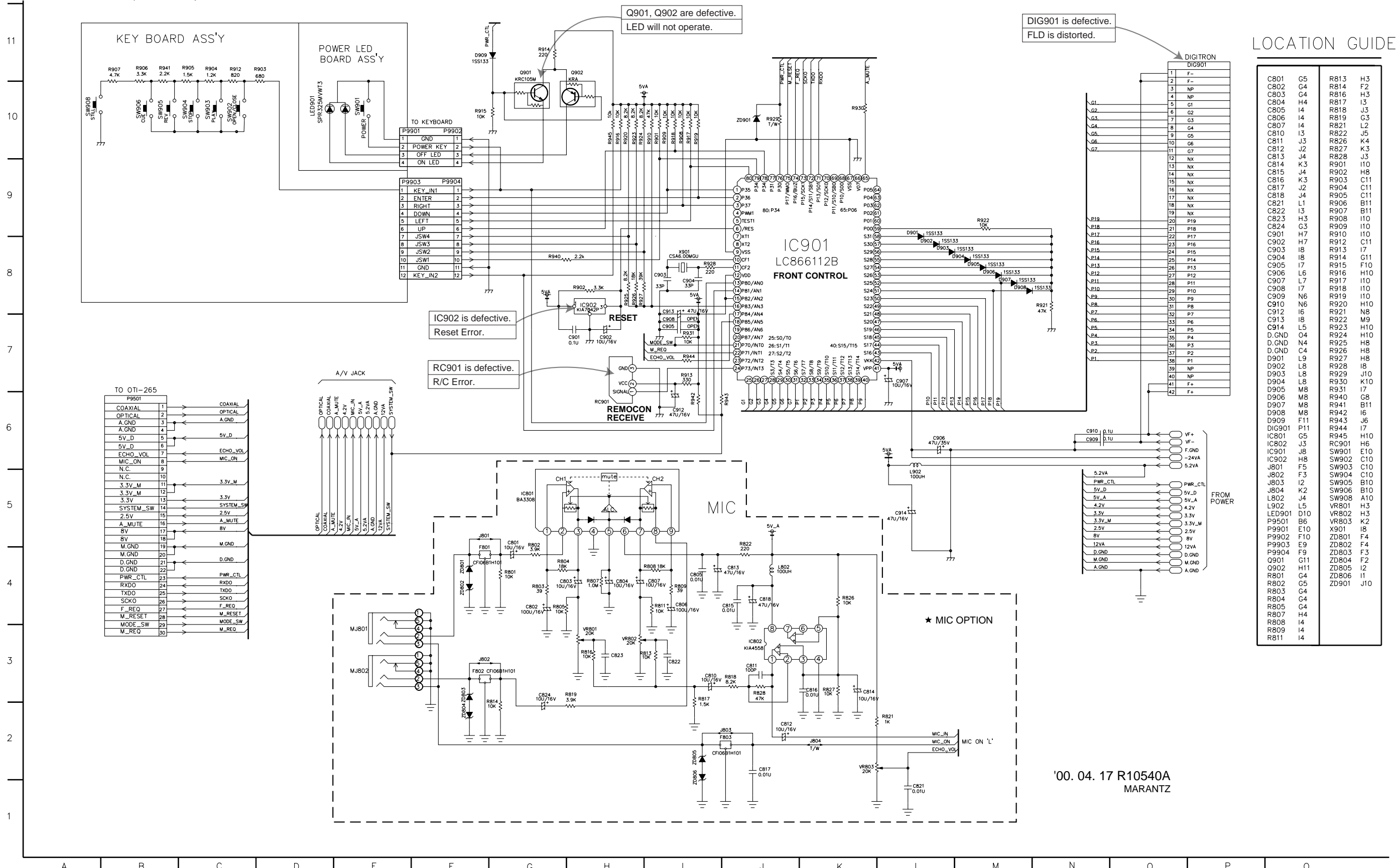
IC305 Pin 27 Component Y

6. μ-COM/EXPANDER CIRCUIT DIAGRAM

LOCATION GUIDE



7. DIGITRON(TIMER) & KEY CIRCUIT DIAGRAM

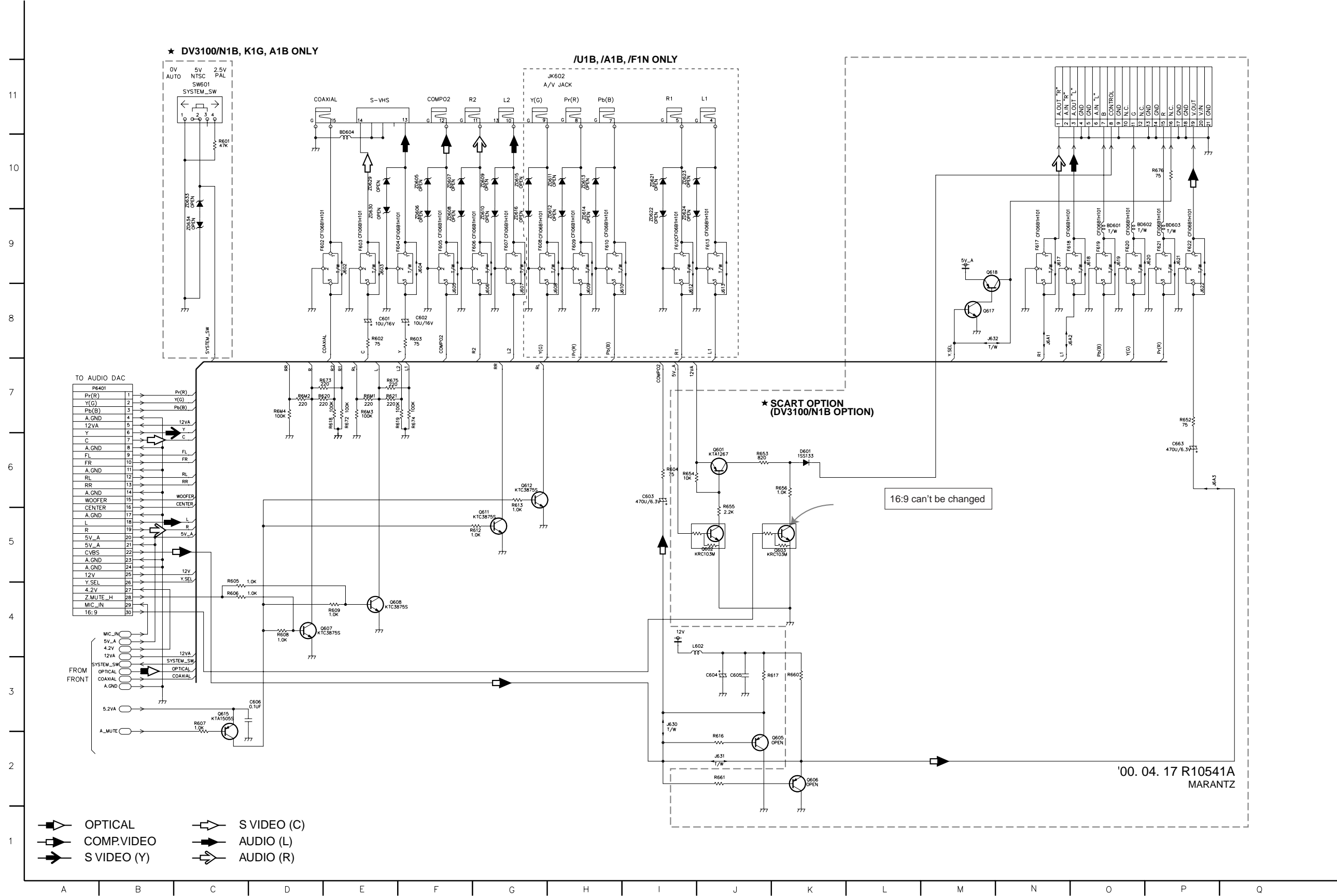


LOCATION GUIDE

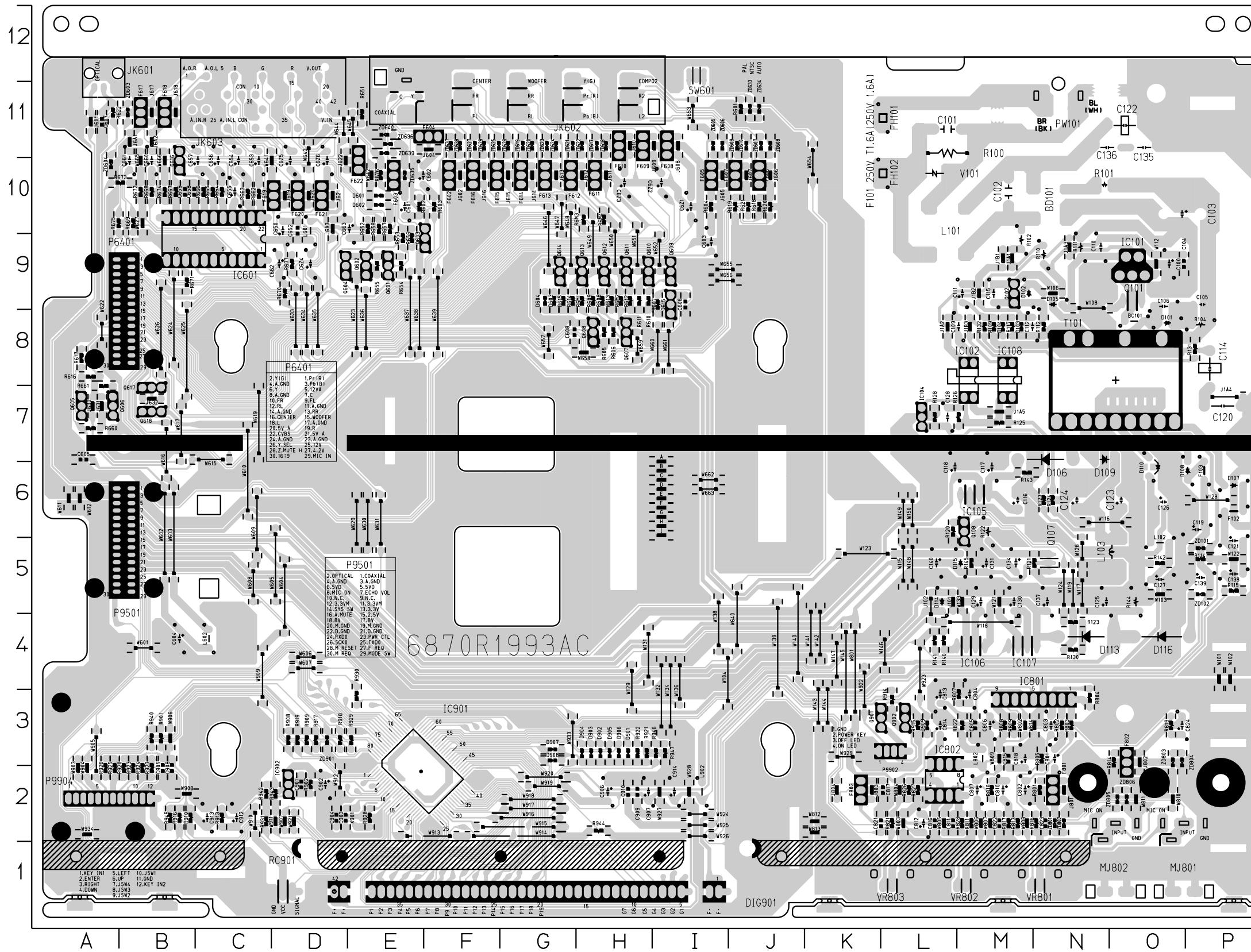
C801	G5	R813	H3
C802	G4	R814	F2
C803	G4	R816	H3
C804	H4	R817	I3
C805	I4	R818	J3
C806	I4	R819	G3
C807	I4	R821	L2
C810	I5	R822	J5
C811	J3	R826	K4
C812	J2	R827	K3
C813	J4	R828	J3
C814	K3	R901	I10
C815	J4	R902	H8
C816	K3	R903	C11
C817	J2	R904	C11
C818	J4	R905	C11
C821	L1	R906	B11
C822	I3	R907	B11
C823	H3	R908	I10
C824	G3	R909	I10
C901	H7	R910	I10
C902	H7	R912	C11
C903	I8	R913	I7
C904	I8	R914	G11
C905	I7	R915	F10
C906	L6	R916	H10
C907	L7	R917	I10
C908	I7	R918	I10
C909	N6	R919	I10
C910	N6	R920	H10
C912	I6	R921	N8
C913	I8	R922	M9
C914	L5	R923	H10
D.GND	O4	R924	H10
D.GND	N4	R925	H8
D.GND	C4	R926	H8
D901	L9	R927	H8
D902	L8	R928	I8
D903	L8	R929	J10
D904	L8	R930	K10
D905	M8	R931	I7
D906	M8	R940	B8
D907	M8	R941	G11
D908	M8	R942	I6
D909	F11	R943	J6
DIG901	P11	R944	I7
IC801	G5	R945	H10
IC802	J3	RC901	H6
IC901	J8	SW901	E10
IC902	H8	SW902	C10
J801	F5	SW903	C10
J802	F3	SW904	C10
J803	I2	SW905	B10
J804	K2	SW906	B10
L802	J4	SW908	A10
L902	L5	VR801	H3
L903	L5	VR802	H3
LED901	D10	VR803	K2
P9501	B6	VR803	K2
P9901	E10	X901	I8
P9902	F10	ZD801	F4
P9903	E9	ZD802	F4
P9904	F9	ZD803	F3
Q901	G11	ZD804	F2
Q902	H11	ZD805	I2
R801	G4	ZD806	I1
R802	G5	ZD901	J10
R803	G4		
R804	G4		
R805	G4		
R807	H4		
R808	I4		
R809	I4		
R811	I4		

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MARANTZ

8. JACK CIRCUIT DIAGRAM



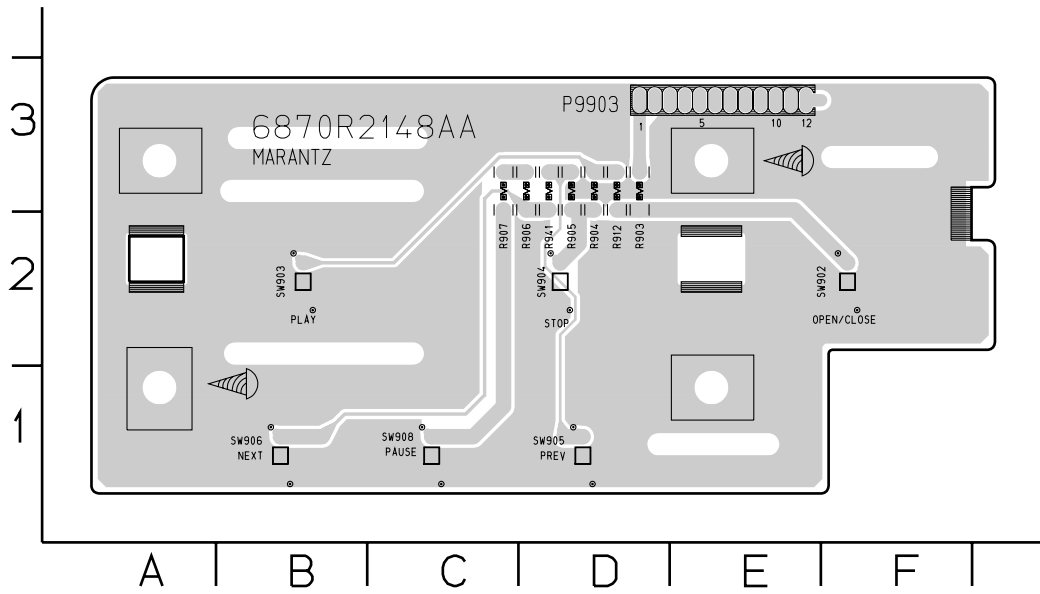
2. Power, A/V, Front P.C.BOARD



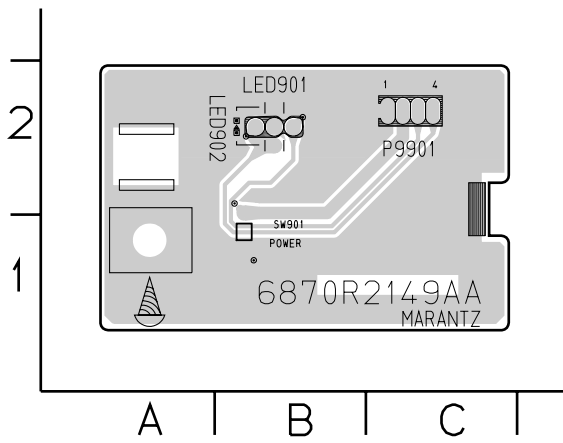
LOCATION GUIDE

BC101	08	F616	F10	L602	C4	R609	H9	R915	L3
BD101	N10	F617	B11	L802	M3	R610	H9	R916	B2
C100	09	F618	B11	L902	12	R611	H9	R917	D3
C101	L11	F619	D10	MJ801	01	R612	H9	R918	D3
C102	M10	F620	L3	MJ802	01	R613	H9	R919	D3
C103	010	F621	D10	P6401	B8	R614	G9	R920	B2
C104	09	F622	E10	P9501	B5	R615	G9	R921	H3
C105	F9	F801	N2	P990A	A2	R616	A8	R922	H3
C106	09	F802	03	PW101	N11	R617	A8	R923	B2
C109	M8	F803	K2	Q101	09	R618	J10	R924	B2
C110	N9	FH101	L11	Q102	09	R619	J10	R925	A2
C111	M9	FH102	L10	Q102	M9	R620	J10	R926	A2
C112	M8	IC101	09	Q107	N5	R621	J10	R927	B2
C114	P8	IC102	M7	Q108	M6	R622	A11	R928	E2
C115	M9	IC104	L7	Q601	E9	R651	E11	R929	E3
C116	M6	IC105	M6	Q602	E9	R652	E10	R930	E3
C117	M6	IC106	M4	Q603	F9	R653	E9	R931	C2
C118	L6	IC107	M4	Q604	D9	R654	E9	R940	B3
C119	P6	IC108	M7	Q605	A7	R655	E9	R942	C2
C120	P7	IC601	C9	Q606	A7	R656	E9	R943	D2
C121	P5	C907	H2	IC801	N3	R657	E10	R944	H2
C122	011	C908	B2	IC802	M2	R658	E10	R945	B2
C123	06	C909	H2	IC902	D2	R659	19	R946	B2
C124	N6	C910	H2	J101	L5	R660	A7	R947	I3
C125	N5	C912	C2	J102	L5	R661	A7	R947	I3
C126	06	C913	C2	J1A1	M8	R662	C10	RC901	D1
C127	05	C914	12	J1A2	L8	R663	C10	SW601	U2
C128	L7	D101	08	J1A3	N9	R664	C10	T101	08
C129	M5	D102	M9	J1A4	P7	R665	C10	V101	L10
C130	M5	D103	M8	J1A5	M7	R666	B10	VR801	N1
C131	M5	D104	M8	J1B1	M9	R667	B10	VR803	L1
C134	M5	D105	N9	J1B2	M9	R668	B10	X901	E2
C135	011	D106	N7	J1B3	M8	R669	B10	ZD101	P5
C136	N11	D107	P6	J601	A11	R670	D9	ZD102	P5
C137	N5	D108	P6	J602	F10	R671	B10	ZD103	B11
C138	P5	D109	N7	J604	F11	R672	B10	ZD604	A10
C139	P5	D110	06	J605	I10	R673	B10	ZD605	I11
C140	L5	D113	N4	J606	J10	R674	A10	ZD606	I11
C601	E10	D114	L5	J607	J10	R675	E10	ZD607	J11
C602	E10	D115	M5	J608	111	R676	D9	ZD608	J11
C603	19	D116	04	J609	111	R677	D9	ZD609	J11
C604	B4	D601	E10	J610	H11	R678	H9	ZD610	J11
C605	A7	D602	E10	J611	H10	R679	H10	ZD611	H11
C606	19	D603	G9	J612	H10	R680	H10	ZD612	H11
C607	A11	D604	G9	J613	G10	R681	N2	ZD613	G11
C608	G8	D901	H3	J614	G10	R682	N3	ZD620	G11
C650	D10	D902	H3	J615	G10	R683	N3	ZD621	G11
C652	D10	D903	H3	J616	F10	R684	N3	ZD622	G11
C653	C10	D904	H3	J617	B11	R685	N3	ZD623	G11
C654	C10	D905	H3	J618	B11	R686	M3	ZD624	G11
C655	C10	D906	H3	J619	D10	R687	M3	ZD625	F11
C656	C10	D907	G3	J620	D10	R688	M3	ZD626	F11
C657	C10	D908	G3	J621	D10	R689	M3	ZD627	F11
C658	B10	D909	L3	J622	D10	R690	M2	ZD628	F11
C659	B10	D1G901	11	J630	A7	R691	O3	ZD633	J11
C660	B10	F102	P6	J631	A7	R692	N2	ZD634	J11
C661	B10	F103	P6	J632	B7	R693	M2	ZD635	J11
C662	D9	F602	F10	J6A1	B11	R694	L4	ZD636	E11
C663	E10	F603	E10	J6A2	B11	R695	L4	ZD637	F11
C671	I10	F604	F11	J6A3	D10	R696	O3	ZD638	F11
C672	I10	F605	I10	J801	N2	R697	M3	ZD639	F11
C673	H10	F606	J10	J802	O3	R698	L5	ZD640	E11
C674	D9	F607	J10	J803	K2	R699	L2	ZD801	N2
C675	D10	F608	111	J804	K2	R700	J11	ZD802	N2
C676	D10	F609	H11	JK601	A11	R701	B3	ZD803	O3
C801	N3	F610	H11	JK602	G12	R702	D2	ZD804	O3
C802	M2	F611	H10	JK603	B12	R703	D3	ZD805	O2
C803	N3	F612	G10	L101	L10	R704	D3	ZD806	O2
C804	M3	F613	G10	L102	O5	R705	B2	ZD901	D3
C805	M3	F614	G10	L103	O5	R706	C2		
C806	M3	F615	F10	L601	D10	R707	L3		

3. KEY P.C.BOARD



4. Power LED P.C.BOARD



5. ELECTRICAL PARTS LIST

POS. NO.	VERS. COLOR	PART NO. (ANAM)	DESCRIPTON	PART NO. (MJI)	POS. NO.	VERS. COLOR	PART NO. (ANAM)	DESCRIPTON	PART NO. (MJI)
BC101	/N1B	9965 000 06959	BEAD CORE BFS3550R2FD8	*FC900210R	C2B3	/N1B	nsp	GRM39Y5V473Z25C500 PT266	nsp
BD101		4822 130 81248	S1WBAA60 (1A 600V)	*HD201400R	C2B4		nsp	560PF 50V K NPO 1608	nsp
C100	/N1B	9965 000 00393	CE 47µF/50V KME (SMPS)	EA47605020	C2B5		nsp	560PF 50V K NPO 1608	nsp
C101		nsp	PCX2 275V 0.1µF M	nsp	C2B6		nsp	0.033µF 50V K X7R(X) 1508	nsp
C102	/N1B	nsp	PCX2 275V 0.1µF M	nsp	C2B7		nsp	0.033µF 50V K X7R(X) 1508	nsp
C103	/N1B	9965 000 07003	68µF SHL SD 400V M FL BK7.5	*EA000980R	C2B8		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C104		nsp	0.022µF 50V Z F TA26 S	nsp	C2B9		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C105		nsp	0.01µF D 630V K PE NI	nsp	C2C0		nsp	220P 50V J COG 1.6X0.8	nsp
C106		nsp	HIGH-VOL 100P/1KV SMPS	nsp	C2C1		nsp	2200PF 50V K X7R(X) 1608	nsp
C109	/N1B	nsp	0.047µF S 50V J PE	nsp	?				
C114	/N1B	nsp	3300PF 400V M E R(NK AD SD)	nsp	C2C4				
C116		9965 000 07004	470µF KME 25V M FM5	EA47702520	C2C5		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C118		nsp	100M SMS 16V M FM5	nsp	C2C8		nsp	33P 50V J COG 1.6X0.8	nsp
C119		9965 000 00393	CE 47µF/50V	EA47605020	C2C9		nsp	33P 50V J COG 1.6X0.8	nsp
C121		nsp	220U SMS 16V M FM5	nsp	C2D2				
C122		nsp	330PF 400V K B R	nsp	?	4822 124 11131	47µF 6.3V M 85STD(CYL)	EY47600620	
C123		4822 124 23111	1000µF KME TYPE 16V M FM5	EA10801620	C2D4				
C124		4822 124 23111	1000µF KME TYPE 16V M FM5	EA10801620	C2D5	4822 124 11383	10µF 6.3V M 3216	EY10600650	
C125		nsp	330µF SMS 10V M FM5	nsp	C2D6		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C126		9965 000 07004	470µF KME 25V M FM5	EA47702520	C2D7		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C127	/N1B	nsp	220µF SMS 25V M FM5	nsp	C2D9		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C128		nsp	0.047µF S 50V J PE	nsp	C2E1		nsp	3900PF 50V K Z5U(E) 1608	nsp
C129		nsp	470µF SHL SD 10V M FM5	nsp	C2M1	9965 000 07005	100µF 16V M 85STD(CYL)	EY10701660	
C130		nsp	100M SMS 16V M FM5	nsp	C2M2		nsp	6800P 50V K X7R 1.6X0.8	nsp
C131		nsp	100M SMS 16V M FM5	nsp	C2M3		nsp	4700PF 50V K X7R(X) 1608	nsp
C134		nsp	100M SMS 16V M FM5	nsp	C2M4				
C137		nsp	470µF SHL SD 10V M FM5	nsp	?		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C140		nsp	470µF SHL SD 10V M FM5	nsp	C2M9				
C201		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C2N1		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C203		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C2N2	/N1B	nsp	GRM39X7R103K50C500 PT266	nsp
C205					C2N3		nsp	0.022µF 50V Z Y5V(F) 1508	nsp
?					C2N4		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp
C207		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C301		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C210		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C302		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp
C221		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C303		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C223		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C304		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp
C224		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C305				
C226		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	?		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C227		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C330				
C228		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C331		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp
C229		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C332				
C232		4822 124 11383	10µF 6.3V M 3216	EY10600650	?		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C237					C338				
?		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C340	/N1B	nsp	10µF 10V M 3216 TP(-)	nsp
C239					C341		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C240		nsp	2200PF 50V K X7R(X) 1608	nsp	C342		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C241		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C343		nsp	22P 50V J COG 1.6X0.8	nsp
C242		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C344		nsp	22P 50V J COG 1.6X0.8	nsp
C245		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C346		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp
C250		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C347		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C255					C348		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp
?		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C349				
C260					?		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C270		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp	C355				
C271		4822 124 11383	10µF 6.3V M 3216	EY10600650	C356		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp
C272		4822 124 11131	47µF 6.3V M 85STD(CYL)	EY47600620	C357				
C273		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp	?		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C274		4822 124 11131	47µF 6.3V M 85STD(CYL)	EY47600620	C359				
C275		4822 124 11383	10µF 6.3V M 3216	EY10600650	C360		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp
C276		4822 124 11383	10µF 6.3V M 3216	EY10600650	C361	9965 000 07005	100µF 16V M 85STD(CYL)	EY10701660	
C277		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp	C362	4822 124 11435	22µF 6.3V M 3528	EY22600650	
C278					C363	9965 000 07005	100µF 16V M 85STD(CYL)	EY10701660	
?		4822 124 11383	10µF 6.3V M 3216	EY10600650	C364	4822 124 11435	22µF 6.3V M 3528	EY22600650	
C281					C365		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C284		4822 124 11131	47µF 6.3V M 85STD(CYL)	EY47600620	C366		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp
C285		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C367	9965 000 07005	100µF 16V M 85STD(CYL)	EY10701660	
C2A0		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C368	4822 124 11435	22µF 6.3V M 3528	EY22600650	
C2A1		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C369	9965 000 07005	100µF 16V M 85STD(CYL)	EY10701660	
C2A2		nsp	2200PF 50V K X7R(X) 1608	nsp	C370	4822 124 11435	22µF 6.3V M 3528	EY22600650	
C2A3					C371	9965 000 07005	100µF 16V M 85STD(CYL)	EY10701660	
?		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C372	4822 124 11435	22µF 6.3V M 3528	EY22600650	
C2A8					C373		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C2A9		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C401		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C2B0		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C402				
C2B1		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	?		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp
C2B2		nsp	0.1µF 50V Z Y5V(F) 1508	nsp	C404				
					C406	9965 000 07005	100µF 16V M 85STD(CYL)	EY10701660	
					C407	4822 124 11131	47µF 6.3V M 85STD(CYL)	EY47600620	

POS. NO.	VERS. COLOR	PART NO. (ANAM)	DESCRIPTON	PART NO. (MJI)
C408		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C409		4822 124 11131	47µF 6.3V M 85STD(CYL)	EY47600620
C410		4822 124 11131	47µF 6.3V M 85STD(CYL)	EY47600620
C411	/N1B	nsp	GRM39X7R102K50-500 PT266	nsp
C412		nsp	100P 50V J COG 1.6X0.8	nsp
C413		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp
C415		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp
C416	/N1B	nsp	GRM39X7R102K50-500 PT266	nsp
C417		nsp	100P 50V J COG 1.6X0.8	nsp
C418		nsp	3900PF 50V K Z5U(E) 1608	nsp
C419		4822 124 11131	47µF 6.3V M 85STD(CYL)	EY47600620
C420		nsp	3900PF 50V K Z5U(E) 1608	nsp
C421		4822 124 11131	47µF 6.3V M 85STD(CYL)	EY47600620
C423		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C424	/N1B	nsp	GRM39X7R103K50C500 PT266	nsp
C427		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C428		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C429		9965 000 07005	100µF 16V M 85STD(CYL)	EY10701660
C430		9965 000 07005	100µF 16V M 85STD(CYL)	EY10701660
C501		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C504		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C506		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C509		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C512		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C514		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C515		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp
C517		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C518		nsp	2.2000µF 16V Z Y5V(F) 3216	nsp
C519		nsp	220P 50V J COG 1.6X0.8	nsp
C520		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C521		nsp	220P 50V J COG 1.6X0.8	nsp
C522		nsp	220P 50V J COG 1.6X0.8	nsp
C527		nsp	220P 50V J COG 1.6X0.8	nsp
C529		nsp	220P 50V J COG 1.6X0.8	nsp
C531		nsp	220P 50V J COG 1.6X0.8	nsp
C532		nsp	56P 50V J COG 1.6X0.8	nsp
C534		nsp	0.1µF 50V Z Y5V(F) 1508	nsp
C535		nsp	10µF 16V M 3528MM TP(-)	EY10601670
C536		9965 000 03911	10µF 16V M 3528MM TP(-)	EY10601670
C606		nsp	0.01M 16V M Y TA26	nsp
C608	/N1B	nsp	0.047M 50V Z F TA26	nsp
C901		nsp	0.1µF 50V Z F TA26 D	nsp
C902		nsp	10µF SMS 16V M FM5	nsp
C903		nsp	33P 50V J SL TA26	nsp
C904		nsp	33P 50V J SL TA26	nsp
C906		nsp	47M SMS 50V M FM5	nsp
C907		nsp	10µF SMS 16V M FM5	nsp
C909		nsp	0.1µF 50V Z F TA26 D	nsp
C910		nsp	0.1µF 50V Z F TA26 D	nsp
C912		nsp	47M SMS 16V M FM5	nsp
C914		nsp	47M SMS 16V M FM5	nsp
D101	/N1B	4822 130 81244	ERA22-10	*HD201480R
D102	/N1B	9965 000 06965	EU01W	*HD201390R
D106		9965 000 06966	RU3YXLF-C1	*HD201470R
D107	/N1B	9965 000 06965	EU01W	*HD201390R
D108	/N1B	9965 000 06965	EU01W	*HD201390R
D109		9965 000 06968	B10A45V1	*HD201440R
D110		9965 000 06971	ERA18-02KFRB	*HD201460R
D113		4822 130 33765	1N5402	*HD201450R
D114		9965 000 06973	RL104	*HD201430R
D2A1		4822 130 33944	DAN202K	HZ20002210
D601	/N1B	4822 130 32778	1SS133	HD20015210
D909		4822 130 32778	1SS133	HD20015210
DIG901		9965 000 06975	7-BT-273GN	*HQ300420R
F101	/N1B	4822 070 31602	1600MA 250 V 5.2X20 CY/GL SEMK	*FS000740R
F102	/N1B	4822 252 51025	ICP-N10 T104	FU40115020
F103		nsp	D=0.6 ROLL	nsp
F603		nsp	CFI06B1H101MF 2.5K/T	nsp
F604		nsp	CFI06B1H101MF 2.5K/T	nsp

POS. NO.	VERS. COLOR	PART NO. (ANAM)	DESCRIPTON	PART NO. (MJI)
FH101		nsp	FUSE CLIP	nsp
FH102		nsp	FUSE CLIP	nsp
IC101		9965 000 06978	STR-G6153T 5PIN FM CUT BK PWM	*HC106630R
IC102	/N1B	4822 130 11545	PC123Y PHOTO-COUPLER(SARPH)	*HC200110R
IC104		4822 209 81397	KA431AZ	*HC105750R
IC105		9965 000 06979	KA78R08	*HC300250R
IC106		9965 000 06980	PQ3RD13	*HC105730R
IC107		9965 000 06980	PQ3RD13	*HC105730R
IC201		9965 000 06984	GDC25D801C	*HC105650R
IC203		4822 209 90472	NJM3414AM-TE1_3K	HC10179090
IC204		9322 119 37685	TC4W53FU	*HC105800R
IC205	/N1B	9965 000 06985	GLT440L16-40J4 40P SOJ TP 4M(2	*HC106620R
IC2A1		9965 000 06986	SSI33P3721(VER.2)	*HC105760R
IC2A2		4822 209 90472	NJM3414AM-TE1_3K	HC10179090
IC2A3		5322 209 12918	AD8011AR	*HC105540R
IC2M1		9965 000 06987	KA3032	*HC105610R
IC301		9965 000 06988	ZIVA3-PE0	*HC105590R
IC302		9965 000 06989	GM72V161621ET-7	*HC105630R
IC303		9965 000 06989	GM72V161621ET-7	*HC105630R
IC304		9965 000 06990	PLL1700E	*HC105570R
IC305		9965 000 06991	SAA7128	*HC105690R
IC306		9965 000 04716	BA7660FS	*HC105700R
IC307		9965 000 04716	BA7660FS	*HC105700R
IC401		8203 303 11278	PCM1716E	*HC105580R
IC402		9965 000 04714	NJM4580M	*HC105660R
IC403		4822 209 33521	TC7W04FU	HC10382050
IC404		9965 000 06992	PQ20WZ5U	*HC105720R
IC501		9965 000 06993	HD6417034AFI20	*HC105640R
IC502	/N1B	9965 000 06994	AT49F8192A-90TC (N1B)	*HC106600R
IC503	/N1B	9965 000 06995	M11B416256A-35J ELITE 4M(256K)	*HC106610R
IC504		9965 000 06996	KS24C021CS	*HC105740R
IC505		9965 000 06997	SN74AHC374PWLE	*HC105770R
IC506		9965 000 06292	XC9536-15VQ44C-PROGRAM	HC10102990
IC901		9965 000 06998	LC866112B-5R54	*HC105710R
IC902		9965 000 06999	KIA7042P	*HC105670R
JK602	/N1B	9965 000 07000	RCA DIN-09G YUQIU D.GND R4P+DI	*YT002250R
JK603	/N1B	9965 000 07001	1F-21P 3.81 ANGLE(BLACK)	*YT002260R
L101		9965 000 07002	SHT LFS2020V4-04350	*FN000110R
L102		nsp	CHOCK(22MH) 5MM	nsp
L103		nsp	CHOCK 20UH	nsp
L201		nsp	HB-1M2012-102JT 3K	nsp
L204		nsp	HB-1M2012-102JT 3K	nsp
L207		nsp	HB-1M2012-102JT 3K	nsp
L208		nsp	HB-1M2012-102JT 3K	nsp
L211		nsp	HB-1M2012-102JT 3K	nsp
L2A1		nsp	HB-1M2012-102JT 3K	nsp
L2A2		nsp	HB-1M2012-102JT 3K	nsp
L301		nsp	HB-1M2012-102JT 3K	nsp
L309		nsp	HB-1M2012-102JT 3K	nsp
L401		nsp	HB-1M2012-102JT 3K	nsp
L402		nsp	HB-1M2012-102JT 3K	nsp
L501		nsp	HB-1M2012-102JT 3K	nsp
L502		nsp	HB-1M2012-102JT 3K	nsp
L503		nsp	HB-1M2012-102JT 3K	nsp
L505		nsp	HB-1M2012-102JT 3K	nsp
L506		nsp	HB-1M2012-102JT 3K	nsp
L507		nsp	HB-1M2012-102JT 3K	nsp
L902		nsp	100M K 6X6 L5	nsp
LED901		9965 000 04671	SPR325MVWT31	*HI100860R
P3901		nsp	2254-30S-T ILSSAN 30PIN 2.0MM	nsp
P5502		nsp	04-6232-115-008-800	nsp
P5901		nsp	2254-30S-T ILSSAN 30PIN 2.0MM	nsp
P6401		nsp	2254-30P-T ILSSAN 30PIN 2.0MM	nsp
P9501		nsp	2254-30P-T ILSSAN 30PIN 2.0MM	nsp
P9901		nsp	GIL-S/9073AN 4 150M/M UL1571 A	nsp
P9902		nsp	GIL-S-04P-S2T2-EF LG CABLE 4PI	nsp
P9903		nsp	GIL-S/GIL-T 12 PIN 100M/M UL15	nsp
P9904		nsp	*WAFER G/S GIL-S-12P-S2T2-EF	nsp

POS. NO.	VERS. COLOR	PART NO. (ANAM)	DESCRIPTON	PART NO. (MJ)
PBJIG		9965 000 07006	DV3100 JIG ASSY	*DV3100JIG
PBP00		nsp	PCB ASSY P.LED	nsp
PBT00		nsp	PCB ASSY KEY	nsp
PMD01		nsp	04-6232-118-008-800 ELCO 18PIN	nsp
PMD03		nsp	04-6232-108-008-800 ELCO 8PIN	nsp
PMD04		nsp	GT200 LG CABLE 5PIN 2MM STRAIG	nsp
PW101		nsp	GP390 LGC 3P 3.96 STRAIGHT SN	nsp
Q107		9965 000 07007	KSB1151-Y BK	*HT200390R
Q108		4822 130 41319	KTC3198-TP-BL	*HT300720R
Q2A1		9965 000 04336	2SA1037K-Q	HX110371A0
Q2M1				
}		4822 130 60729	DTC124EK SOT23 3	*BA001080R
Q2M3				
Q301		4822 130 62937	2SC2412KR(BR)-T96	*HT300800R
Q304		4822 130 62937	2SC2412KR(BR)-T96	*HT300800R
Q401		4822 130 10481	KTA1505S-Y -T1	*HT100500R
Q404		9965 000 07008	UMZ1N TL UM6 3K	BA30002210
Q601		9965 000 07009	KTA1266-GR	*HT100480R
Q602		4822 130 10098	KRC103M-TP (KRC1203) KEC	*HT300790R
Q603		4822 130 10098	KRC103M-TP (KRC1203) KEC	*HT300790R
Q607		4822 130 41319	KTC3198-TP-BL	*HT300720R
Q608		4822 130 41319	KTC3198-TP-BL	*HT300720R
Q615		9965 000 07009	KTA1266-GR	*HT100480R
Q901		9965 000 07010	KRC105M(KRC1205) TP KEC	*BA000880R
Q902		9965 000 07011	KRA 105M KEC	*BA000890R
R100		nsp	1.5M Ω 1/2 W 5% MF10	nsp
R101		nsp	2.7/2W CEMENT SMPS V	nsp
R102		9965 000 07012	100K Ω 2 W 5% TR	GA05104020
R104		9965 000 07013	56K Ω 2 W 5% TR	GA05563020
R110		nsp	D=0.6 ROLL	nsp
R111		9965 000 07014	0.51 Ω 2 W 5% TR	GB05512020
R112		nsp	3.9 1/6W 5 TA26	nsp
R114		nsp	100K 1/6W 5 TA26	nsp
R115		nsp	5.6 1/6W 5 TA26	nsp
R120		nsp	1.0K 1/6W 5 TA26	nsp
R121		nsp	1.2K 1/6W 5 TA26	nsp
R122		4822 053 10121	120 1W 5% TR	GA05121010
R123		nsp	1.0K 1/6W 5 TA26	nsp
R124		nsp	330 1/6W 5 TA26	nsp
R125		nsp	2.2K 1/6W 5 TA26	nsp
R126		nsp	1.0K 1/6W 5 TA26	nsp
R127		nsp	3.6K Ω 1/8 W 1% TA26	nsp
R128		nsp	3.3K 1/6W 1 TA26	nsp
R130		nsp	10K 1/6W 5 TA26	nsp
R140		nsp	10K 1/6W 5 TA26	nsp
R141		nsp	10K 1/6W 5 TA26	nsp
R144		nsp	330 1/6W 5 TA26	nsp
R145		nsp	470 1/6W 5 TA26	nsp
R201				
}		nsp	0 1/16W 5 D.	nsp
R204				
R217		nsp	10 1/16W 5 D.	nsp
R218		nsp	470 1/16W 5 D.	nsp
R219				
}		nsp	10K 1/16W 5 D.	nsp
R221				
R230				
}		nsp	100 1/16W 5 D.	nsp
R237				
R239				
}		nsp	0 1/16W 5 D.	nsp
R242				
R244		nsp	0 1/16W 5 D.	nsp
R271		nsp	0 1/16W 5 D.	nsp
R273		nsp	0 1/16W 5 D.	nsp
R274		nsp	620 Ω 1 / 16 W 1608 5% D	nsp
R275		nsp	910 Ω 1 / 16 W 1608 5% D	nsp
R276		nsp	910 Ω 1 / 16 W 1608 5% D	nsp
R277		nsp	150 1/16W 5 D.	nsp
R278		nsp	0 1/16W 5 D.	nsp
R279		nsp	0 1/16W 5 D.	nsp
R280		nsp	0 1/16W 5 D.	nsp
R281		nsp	2.2K 1/16W 5 D.	nsp
R292		nsp	1.2K 1/16W 5 D.	nsp

POS. NO.	VERS. COLOR	PART NO. (ANAM)	DESCRIPTON	PART NO. (MJ)
R293		nsp	2K Ω 1 / 16 W 1608 5% D	nsp
R294		nsp	150 1/16W 5 D.	nsp
R295		nsp	2K Ω 1 / 16 W 1608 5% D	nsp
R296		nsp	150 1/16W 5 D.	nsp
R297		nsp	1.2K 1/16W 5 D.	nsp
R2A0		nsp	10K 1/16W 5 D.	nsp
R2A1		nsp	91 Ω 1 / 16 W 1608 5% D	nsp
R2A2		nsp	12K 1/16W 5 D.	nsp
R2A5		nsp	0 1/16W 5 D.	nsp
R2A6		nsp	1K Ω 1 / 16 W 1608 5.00% D	nsp
R2A9		nsp	0 1/16W 5 D.	nsp
R2B2		nsp	0 1/16W 5 D.	nsp
R2B3		nsp	1K Ω 1 / 16 W 1608 5.00% D	nsp
R2B4		nsp	18 1/16W 5 D.	nsp
R2B5		nsp	18 1/16W 5 D.	nsp
R2B6		nsp	10K 1/16W 5 D.	nsp
R2B7		nsp	2.2K 1/16W 5 D.	nsp
R2B8		nsp	150K 1/16W 5 D.	nsp
R2B9		nsp	150K 1/16W 5 D.	nsp
R2C0		nsp	39K 1/16W J D.	nsp
R2C1		nsp	39K 1/16W J D.	nsp
R2C2		nsp	1K Ω 1 / 16 W 1608 5.00% D	nsp
R2C3		nsp	1K Ω 1 / 16 W 1608 5.00% D	nsp
R2C4		nsp	100 1/16W 5 D.	nsp
R2C6		nsp	0 1/16W 5 D.	nsp
R2C7		nsp	0 1/16W 5 D.	nsp
R2D1		nsp	0 1/16W 5 D.	nsp
R2D4		nsp	0 1/16W 5 D.	nsp
R2D5		nsp	0 1/16W 5 D.	nsp
R2D7		nsp	47 1/16W 5 D.	nsp
R2E1				
}		nsp	1K Ω 1 / 16 W 1608 5.00% D	nsp
R2E5				
R2E6		nsp	0 1/16W 5 D.	nsp
R2E7		nsp	2.2K 1/16W 5 D.	nsp
R2M1		nsp	1K Ω 1 / 16 W 1608 5.00% D	nsp
R2M2		nsp	10K 1/16W 5 D.	nsp
R2M3		nsp	10K 1/16W 5 D.	nsp
R2M5		nsp	1K Ω 1 / 16 W 1608 5.00% D	nsp
R2M6		nsp	10K 1/16W 5 D.	nsp
R2M7		nsp	10K 1/16W 5 D.	nsp
R2M8		nsp	1K Ω 1 / 16 W 1608 5.00% D	nsp
R2M9		nsp	10K 1/16W 5 D.	nsp
R2N0		nsp	12K 1/16W 5 D.	nsp
R2N1		nsp	1K Ω 1 / 16 W 1608 5.00% D	nsp
R2N2		nsp	5.6K 1/16W 5 D.	nsp
R2N3		nsp	10K 1/16W 5 D.	nsp
R2N4		nsp	15K 1/16W 5 D.	nsp
R2N5		nsp	12K 1/16W 5 D.	nsp
R2N6		nsp	1K Ω 1 / 16 W 1608 5.00% D	nsp
R2N7		nsp	1K Ω 1 / 16 W 1608 5.00% D	nsp
R2N8		nsp	10K 1/16W 5 D.	nsp
R2N9		nsp	10K 1/16W 5 D.	nsp
R2P1				
}		nsp	10K 1/16W 5 D.	nsp
R2P3				
R2P4		nsp	18K 1/16W 5 D.	nsp
R2P5		nsp	10K 1/16W 5 D.	nsp
R2P6		nsp	1K Ω 1 / 16 W 1608 5.00% D	nsp
R2P7		nsp	22K 1/16W 5 D.	nsp
R2P8		nsp	1.2K 1/16W 5 D.	nsp
R2Q1		nsp	10K 1/16W 5 D.	nsp
R300		nsp	100 1/16W 5 D.	nsp
R301		nsp	10K 1/16W 5 D.	nsp
R302		nsp	1K Ω 1 / 16 W 1608 5.00% D	nsp
R303		nsp	4.7K 1/16W 5 D.	nsp
R304				
}		nsp	10K 1/16W 5 D.	nsp
R312				
R313				
}		nsp	33 1/16W 5 D.	nsp
R332				
R333		nsp	4.7K 1/16W 5 D.	nsp
R334		nsp	10K 1/16W 5 D.	nsp
}		nsp	10K 1/16W 5 D.	nsp
R346		nsp	100 1/16W 5 D.	nsp

POS. NO.	VERS. COLOR	PART NO. (ANAM)	DESCRIPTON	PART NO. (MJI)
R350		nsp	10K 1/16W 5 D.	nsp
∩				
R355				
R356		nsp	0 1/16W 5 D.	nsp
∩				
R358				
R359		nsp	100 1/16W 5 D.	nsp
∩				
R361				
R362		nsp	15K 1/16W 5 D.	nsp
R363		nsp	3.3K 1/16W 5 D.	nsp
R364		nsp	330 1/16W 5 D.	nsp
R365		nsp	15K 1/16W 5 D.	nsp
R366		nsp	3.3K 1/16W 5 D.	nsp
R367		nsp	330 1/16W 5 D.	nsp
R368		nsp	15K 1/16W 5 D.	nsp
R369		nsp	3.3K 1/16W 5 D.	nsp
R370		nsp	820 1/16W 5 D.	nsp
R371		nsp	15K 1/16W 5 D.	nsp
R372		nsp	3.3K 1/16W 5 D.	nsp
R373		nsp	820 1/16W 5 D.	nsp
R374		nsp	15K 1/16W 5 D.	nsp
R375		nsp	3.3K 1/16W 5 D.	nsp
R376		nsp	820 1/16W 5 D.	nsp
R377		nsp	15K 1/16W 5 D.	nsp
R378		nsp	3.3K 1/16W 5 D.	nsp
R379				
∩		nsp	75 1/16W 5 D.	nsp
R381				
R382		nsp	1KΩ 1 / 16 W 1608 5.00% D	nsp
R385		nsp	1KΩ 1 / 16 W 1608 5.00% D	nsp
R390				
∩		nsp	100 1/16W 5 D.	nsp
R397				
R3A1		nsp	0 1/16W 5 D.	nsp
R3A2		nsp	0 1/16W 5 D.	nsp
R3B1		nsp	0 1/16W 5 D.	nsp
R401		nsp	33 1/16W 5 D.	nsp
R402		nsp	4.7K 1/16W 5 D.	nsp
R403				
∩		nsp	470 1/16W 5 D.	nsp
R406				
R407		nsp	6.8K 1/16W 5 D.	nsp
R408		nsp	2.2K 1/16W 5 D.	nsp
R409		nsp	7.5K 1/16W 5 D.	nsp
R411		nsp	7.5K 1/16W 5 D.	nsp
R412		nsp	6.8K 1/16W 5 D.	nsp
R413		nsp	15K 1/16W 5 D.	nsp
R414		nsp	5.6K 1/16W 5 D.	nsp
R415		nsp	4.7K 1/16W 5 D.	nsp
R416		nsp	15K 1/16W 5 D.	nsp
R417		nsp	6.8K 1/16W 5 D.	nsp
R418		nsp	1KΩ 1 / 16 W 1608 5.00% D	nsp
R419		nsp	100 1/16W 5 D.	nsp
R420		nsp	100 1/16W 5 D.	nsp
R425		nsp	330 1/16W 5 D.	nsp
R426		nsp	220 1/16W 5 D.	nsp
R427		nsp	330 1/16W 5 D.	nsp
R428		nsp	220 1/16W 5 D.	nsp
R429		nsp	56 1/16W 5 D.	nsp
R437		nsp	2.2K 1/16W 5 D.	nsp
R438		nsp	7.5K 1/16W 5 D.	nsp
R439		nsp	10K 1/16W 5 D.	nsp
R501		nsp	0 1/16W 5 D.	nsp
R503		nsp	47K 1/16W 5 D.	nsp
R504		nsp	680 1/16W 5 D.	nsp
R506		nsp	1KΩ 1 / 16 W 1608 5.00% D	nsp
R510		nsp	330 1/16W 5 D.	nsp
R511		nsp	330 1/16W 5 D.	nsp
R512				
∩		nsp	4.7K 1/16W 5 D.	nsp
R514				
R517				
∩		nsp	1.2K 1/16W 5 D.	nsp
R519				
R524		nsp	0 1/16W 5 D.	nsp
R525		nsp	0 1/16W 5 D.	nsp

POS. NO.	VERS. COLOR	PART NO. (ANAM)	DESCRIPTON	PART NO. (MJI)
R535		nsp	100 1/16W 5 D.	nsp
∩				
R555				
R557		nsp	100 1/16W 5 D.	nsp
R558		nsp	100 1/16W 5 D.	nsp
R559		nsp	4.7K 1/16W 5 D.	nsp
R560		nsp	4.7K 1/16W 5 D.	nsp
R562		nsp	4.7K 1/16W 5 D.	nsp
R564		nsp	1KΩ 1 / 16 W 1608 5.00% D	nsp
R565		nsp	47K 1/16W 5 D.	nsp
R567		nsp	4.7K 1/16W 5 D.	nsp
R569		nsp	1.2K 1/16W 5 D.	nsp
R570		nsp	10K 1/16W 5 D.	nsp
R571		nsp	47K 1/16W 5 D.	nsp
R573		nsp	0 1/16W 5 D.	nsp
R574		nsp	4.7K 1/16W 5 D.	nsp
R575		nsp	1.2K 1/16W 5 D.	nsp
R576		nsp	47K 1/16W 5 D.	nsp
R577		nsp	47K 1/16W 5 D.	nsp
R581		nsp	1KΩ 1 / 16 W 1608 5.00% D	nsp
R582				
∩		nsp	1.2K 1/16W 5 D.	nsp
R584				
R587				
∩		nsp	1.2K 1/16W 5 D.	nsp
R589				
R593		nsp	1.2K 1/16W 5 D.	nsp
R597		nsp	0 1/16W 5 D.	nsp
R598		nsp	10K 1/16W 5 D.	nsp
R5A1				
∩		nsp	0 1/10W 5 D.	nsp
R5A7				
R601		nsp	47K 1/6W 5 TA26	nsp
R602		nsp	75 1/6W 5 TA26	nsp
R603		nsp	75 1/6W 5 TA26	nsp
R604		nsp	75 1/6W 5 TA26	nsp
R605				
∩		nsp	1.0K 1/6W 5 TA26	nsp
R609				
R618		nsp	100K 1/6W 5 TA26	nsp
R619		nsp	100K 1/6W 5 TA26	nsp
R620		nsp	220 1/6W 5 TA26	nsp
R621		nsp	220 1/6W 5 TA26	nsp
R652		nsp	75 1/6W 5 TA26	nsp
R653		nsp	10K 1/6W 5 TA26	nsp
R654		nsp	10K 1/6W 5 TA26	nsp
R655		nsp	2.2K 1/6W 5 TA26	nsp
R656		nsp	10K 1/6W 5 TA26	nsp
R672		nsp	100K 1/6W 5 TA26	nsp
R673		nsp	220 1/6W 5 TA26	nsp
R674		nsp	100K 1/6W 5 TA26	nsp
R675		nsp	220 1/6W 5 TA26	nsp
R676		nsp	75 1/6W 5 TA26	nsp
R901		nsp	10K 1/6W 5 TA26	nsp
R902		nsp	3.3K 1/6W 5 TA26	nsp
R903		nsp	680 1/6W 5 TA26	nsp
R904		nsp	1.2K 1/6W 5 TA26	nsp
R905		nsp	1.5K 1/6W 5 TA26	nsp
R906		nsp	3.3K 1/6W 5 TA26	nsp
R907		nsp	4.7K 1/6W 5 TA26	nsp
R908		nsp	10K 1/6W 5 TA26	nsp
R909		nsp	10K 1/6W 5 TA26	nsp
R910		nsp	47K 1/6W 5 TA26	nsp
R912		nsp	820 1/6W 5 TA26	nsp
R913		nsp	330 1/6W 5 TA26	nsp
R914		nsp	220 1/6W 5 TA26	nsp
R915				
∩		nsp	10K 1/6W 5 TA26	nsp
R919				
R921		nsp	47K 1/6W 5 TA26	nsp
R922		nsp	10K 1/6W 5 TA26	nsp
R928		nsp	220 1/6W 5 TA26	nsp
R929		nsp	D=0.6 ROLL	nsp
R931		nsp	10K 1/6W 5 TA26	nsp
R941		nsp	2.2K 1/6W 5 TA26	nsp
R945		nsp	10K 1/6W 5 TA26	nsp
R946		nsp	10K 1/6W 5 TA26	nsp

POS. NO.	VERS. COLOR	PART NO. (ANAM)	DESCRIPTON	PART NO. (MJI)
RC901		9965 000 07015	TSOP2836WE1 TEMIC 19MM 36.7KHZ	*HW100470R
SW601 SW901 ? SW906 SW908	/N1B	9965 000 07016	SKQ-23D15-G3-NA LUP FUNG VDE/S	*SS000660R
		9965 000 07017	THVV502GAA POSTECH NON 12V 5A	*SP001000R
		9965 000 07017	THVV502GAA POSTECH NON 12V 5A	*SP001000R
T101 V101	/N1B	9965 000 07018 nsp	SHT-023T/KSE-023T SVC681D-10A 4.O CUT	*TS001170R nsp
X301		9965 000 07019	HC-49/SM5H 27MHZ 20P	*JX000660R
X501		9965 000 07020	CSTCV20.00MXJ040-TC20 MURATA 2	*FQ000440R
X901		9965 000 07021	CSA6.00MGU MURATA 6MHZ BK	*FQ000430R
ZD101 ZD635 ? ZD640		9965 000 07022	GDZJ5.6B 26MM	*HD301840R
		9965 000 07022	GDZJ5.6B 26MM	*HD301840R

SECTION 4 MECHANISM

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DECK MECHANISM ADJUSTMENT

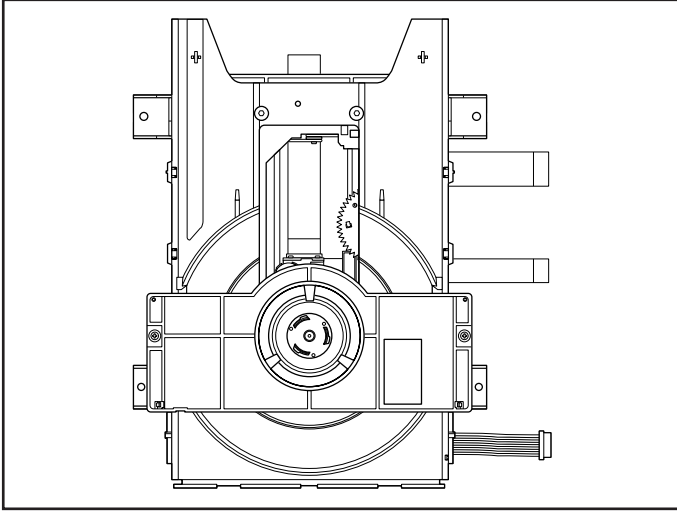
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EXPLODED VIEW

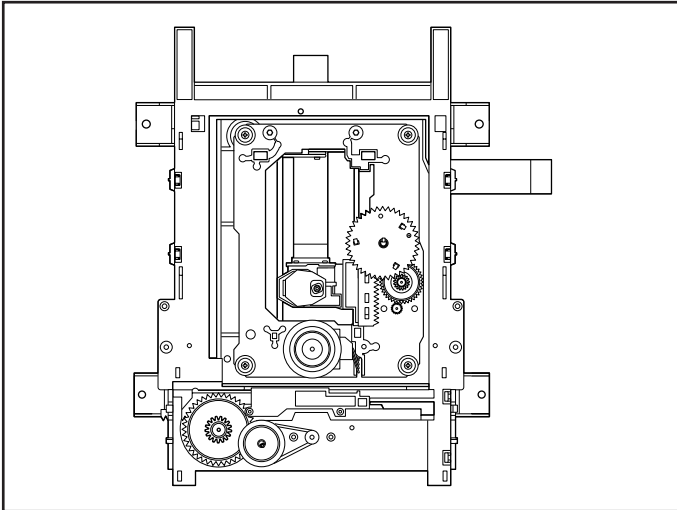
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DECK MECHANISM PARTS LOCATION

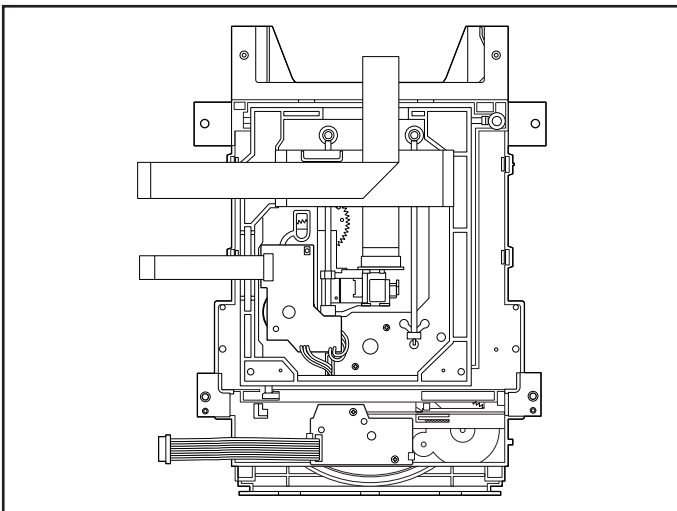
• Top View (With Tray)



• Top View (Without Tray)



• Bottom View



Procedure Starting No.	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			4-3
1, 2, 6	8 Gear Assembly Feed	4 Screws, 1 Connector 1 Locking Tabs		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	12 Frame Assembly Up/Down	1 Screw	Bottom	4-4
1, 2, 13	13 Belt Loading	1 Locking Tab		4-4
1, 2, 13, 14	14 Gear Pulley			4-4
1, 2, 7, 12, 13, 14	15 Gear Loading	1 Locking Tab		4-4
1, 2, 13	16 Guide Up/Down			4-4
1, 2, 7, 12, 13,	17 PWB Assembly Loading	1 Locking Tab 1 Hook 2Screw	Bottom	4-4
14, 15, 16, 17	18 Base Main	2 Locking Tabs		4-4

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

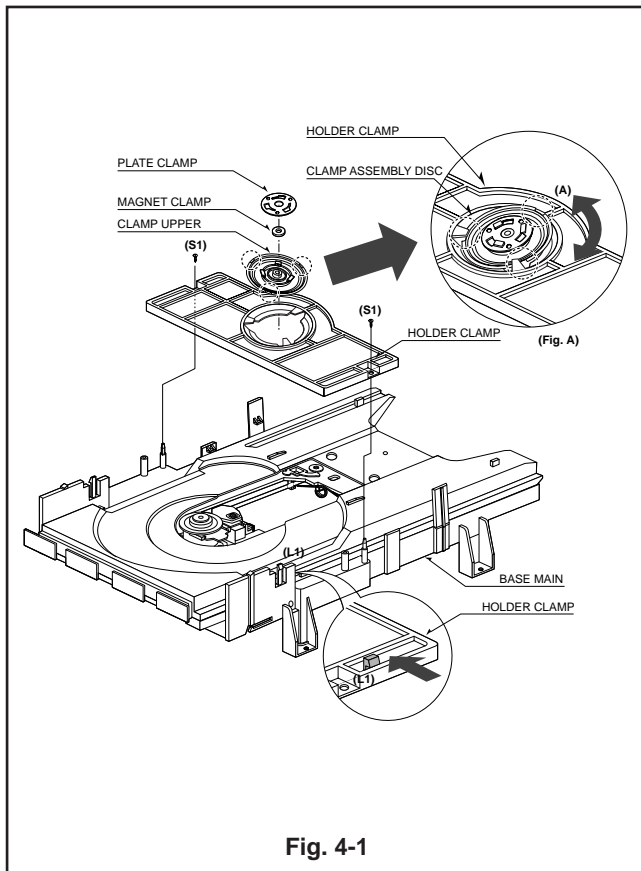


Fig. 4-1

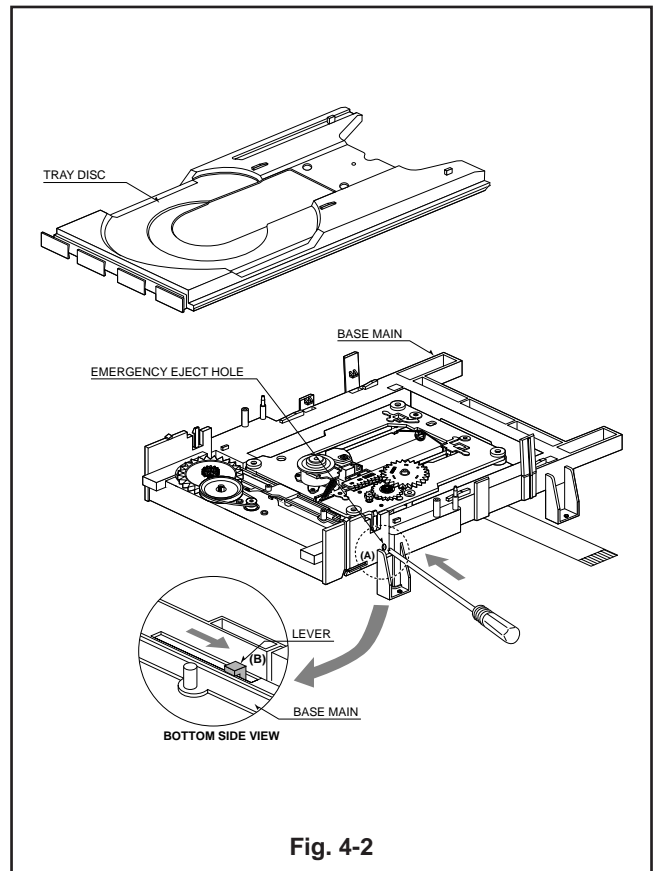


Fig. 4-2

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

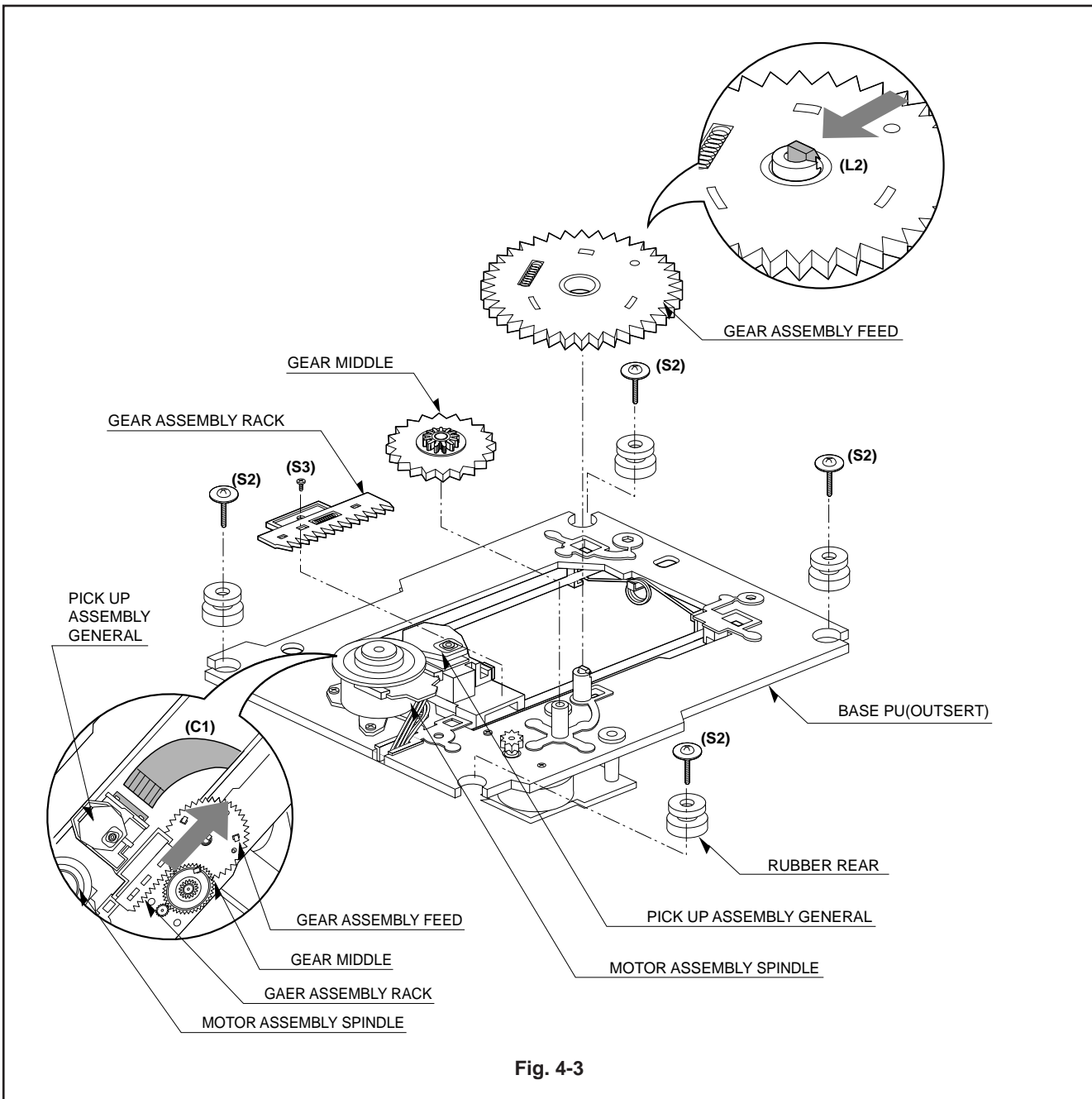


Fig. 4-3

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

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

3-1. Gear Assembly Feed

- 1) Unhook the Locking Tab(L2) in direction of arrow.

3-2. Gear Middle

3-3. Gear Assembly Rack

- 1) Release the Scerw(S3)

4. Rubber Rear (Fig. 4-3)

DECK MECHANISM DISASSEMBLY

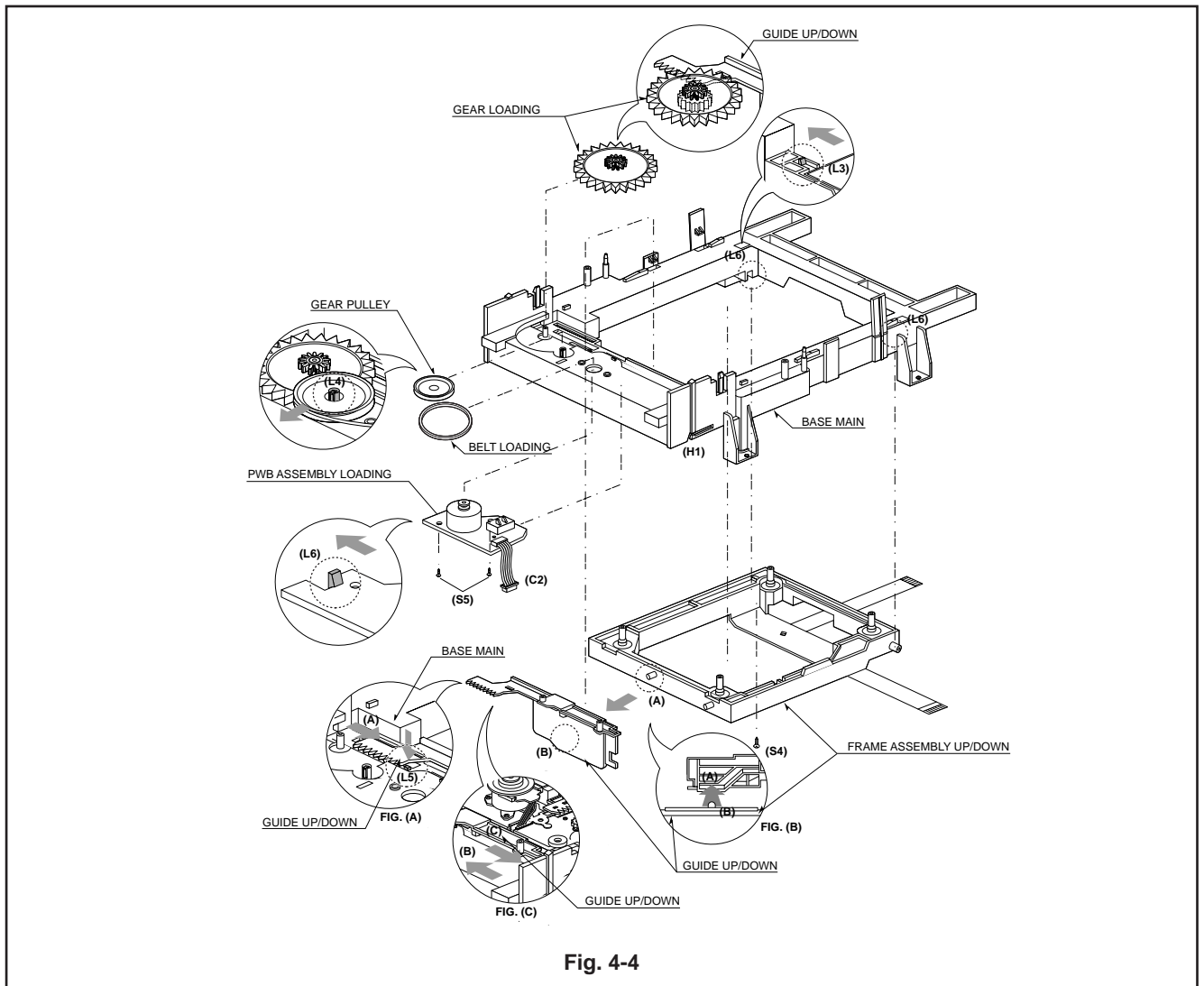


Fig. 4-4

5. Frame Assembly Up/Down

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 Assembly 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

Note

Put the Base Main face down(Bottom Side)

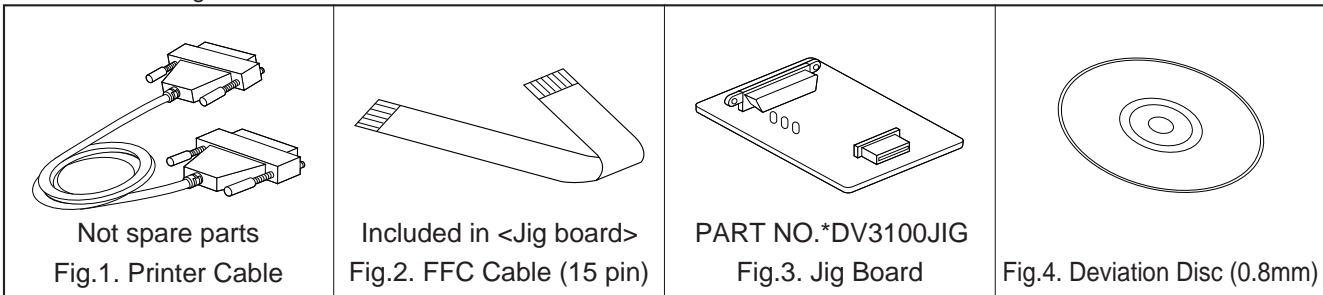
- 1) Release 2 Screws(S5)
- 2) Unhook the Loading Motor Connector (C2) from the Hook (H1) on the Base Main.
- 3) Unlock 2 Locking Tabs(L6) and separate the PWB Assembly Loading from the Base Main.

11. Base Main(Fig. 4-4)

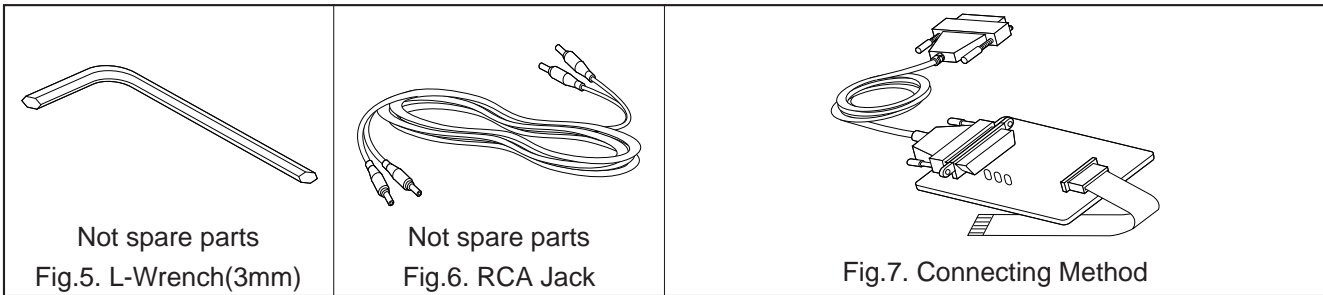
DECK MECHANISM ADJUSTMENT

1. Tools and Fixtures for SVC

• For SVC Program Down-Load

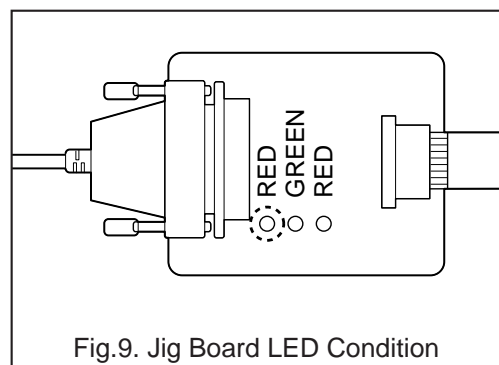
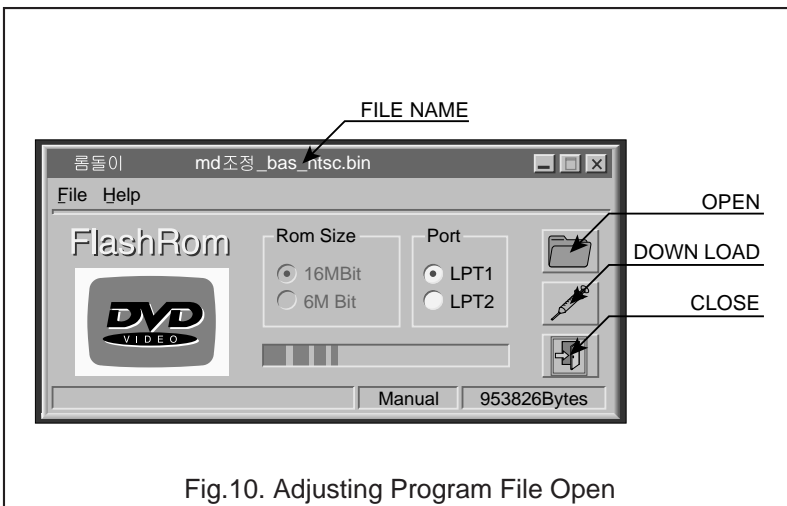
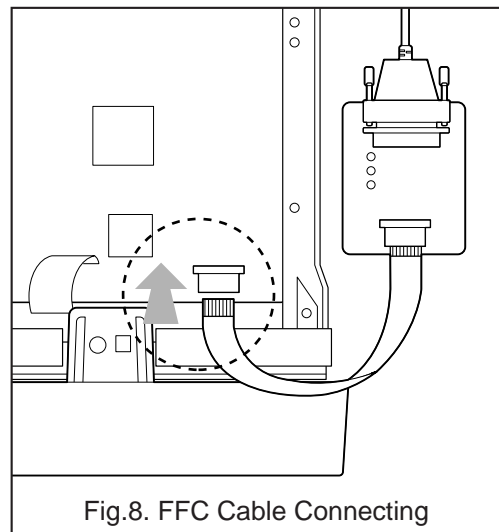


• For T-Skew and R-Skew Adjustment



2. Install Process

1. Connect Fig. 1, 2, 3 as Fig. 7.
2. Plug out the Power cord of DVD set.
3. Connect FFC Cable(Fig.2) to the Connector on DVD Set(Fig.8)
4. Connect Printer Cable(Fig.1) to the P.C.Printer Port (LPT1).
5. Plug in the DVD Power cord.
6. Press the Menu key on Remocon.
7. Confirm No.1 LED(RED Color) of Jig board is ON. (Fig.9)
8. Perform The S/W for Down-load at P.C.
9. Open the Program File for Adjusting(Fig.10)
10. Click the Down-load Icon and perform Program Down-load.
11. Displayed remaining time.
12. Confirm LED No.1(RED) and No.2(GREEN) is ON.
13. Plug out the DVD Set Power cord.
14. Disconnect the FFC Cable.



EXPLODED VIEWS

1. Deck Mechanism Exploded View

POS. NO.	VERS. COLOR	PART NO. (PCS)	DESCRIPTION	PART NO. (MUJ)
A00		nsp	DECK ASSY DVD PLAYER(DP2)	304W304500
A01		9965 000 06956	CLAMP ASSY DISC(DP2)	304W005500
A02		nsp	BASE ASSY MAIN(DP2 PLAYER)	304W064500
A03		9965 000 06957	BASE ASSY SLED(DP2)	304W304510
A43		nsp	BASE ASSY FRONT (ADV3520NC 1UM1)	nsp
A46	/N1B	9965 000 06958	DVD MAIN PCB ASSY (/N1B)	*ZZ001660R
A48		nsp	PCB ASSY IO	nsp
001		nsp	PLATE CLAMP	nsp
002		nsp	MAGNET CLAMP	nsp
003		nsp	CLAMP UPPER	nsp
004		9965 000 06937	HOLDER CLAMP	304W271010
008		9965 000 06938	GEAR ASSY RACK	304W058010
009		9965 000 06939	GEAR MIDDLE	304W058020
011		nsp	FRAME ASSY	nsp
012	/N1B	nsp	DAMPER (E2 5040H-1054A)	304W130020
013		9965 000 06944	BELT LOADING	304W264010
014		9965 000 06945	GEAR PULLEY	304W262010
015		9965 000 06946	PWB(PCB) ASSY LOADING (DP2)	*ZZ001480R
016		9965 000 06947	GEAR ASSY FEED	304W058030
017		9965 000 06948	GEAR LOADING	304W058040
018		9965 000 06949	GUIDE UP/DOWN	304W127010
020		nsp	BASE MAIN	nsp
026		9965 000 06950	TRAY DISC	304W163010

