



SERVICE MANUAL

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MODELS : T512C/T532C/T512AH/T532AH

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**T512C/T532C/
T512AH/T532AH**

DVD VIDEO PLAYER

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T512AH/T532AH**



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T512AH/T532AH**

DVD VIDEO PLAYER

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SECTION 1

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PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS

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

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

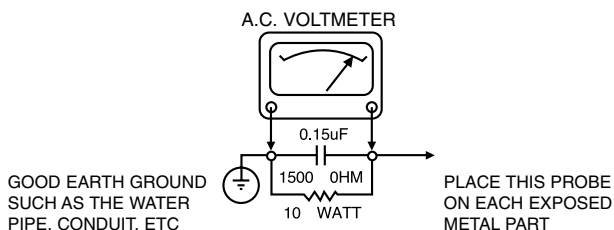
WHILE SERVICING, USE AN ISOLATION TRANSFORMER FOR PROTECTION FROM A.C. LINE SHOCK.

SAFETY CHECKS

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

SUBJECT : FIRE & SHOCK HAZARD

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



SUBJECT: GRAPHIC SYMBOLS



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



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

SUBJECT : X-RADIATION

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

SUBJECT: IMPLOSION

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

2. USE ONLY RECOMMENDED FACTORY REPLACEMENT TUBES.

SUBJECT : TIPS ON PROPER INSTALLATION

1. NEVER INSTALL ANY PRODUCT IN A CLOSED-IN RECESS, CUBBY-HOLE OR CLOSELY FITTING SHELF SPACE. OVER OR CLOSE TO HEAT DUCT, OR IN THE PATH OF HEATED AIR FLOW.
2. AVOID CONDITIONS OF HIGH HUMIDITY SUCH AS: OUTDOOR PATIO INSTALLATIONS WHERE DEW IS A FACTOR, NEAR STEAM RADIATORS WHERE STEAM LEAKAGE IS A FACTOR, ETC.
3. AVOID 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 addends, read and follow the **SAFETY PRECAUTIONS**. **NOTE :** if unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions in this publication, always follow the safety precautions.

Remembers Safety First:

General Servicing Precautions

1. Always unplug the DVD AC power cord from the AC power source before:
 - (1) Removing or reinstalling any component, circuit board, module, or any other assembly.
 - (2) Disconnection or reconnecting any internal electrical plug or other electrical connection.
 - (3) Connecting a test substitute in parallel with an electrolytic capacitor.

Caution : A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Do not spray chemicals on or near this DVD or any of its assemblies.
3. Unless specified otherwise in this service data, clean electrical contacts by applying an appropriate contact cleaning solution to the contacts with a pipe cleaner, cotton-tipped swab, or comparable soft applicator. Unless specified otherwise in this service data, lubrication of contacts is not required.
4. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.
5. Do not apply AC power to this DVD and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
6. Always connect test instrument ground lead to the appropriate ground before connection the test instrument positive lead. Always remove the test instrument ground lead last.

Insulation Checking Procedure

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

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

Electrostatically Sensitive (ES) Devices

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

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

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

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

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

SPECIFICATIONS

• GENERAL

Power requirements	AC 120V, 60Hz(USA), AC 110~220V, 60Hz(EUROPE)
Power consumption	14W
Dimensions(approx.)	430 x 69 x 230mm (W/h/d)
Mass(approx.)	3.4kg
Operating temperature	5°C to 35°C (41°F to 95°F)
Operating humidity	5% to 9%

• SYSTEM

Laser	Semiconductor laser, wavelength 650nm
Signal system	NTSC(USA), NTSC/PAL(EUROPE)
Frequency response	DVD (PCM 96kHz): 2Hz to 44kHz DVD (PCM 48kHz): 2Hz to 22kHz CD: 2Hz to 20kHz
Signal-to-noise ratio	More than 100dB (ANALOG OUT connectors only)
Harmonic distortion	Less than 0.008%
Dynamic range	More than 95dB(DVD) More than 95dB(CD)
Wow and flutter	Less than detected value ($\pm 0.001\%$ W PEAK)

• OUTPUTS

VIDEO OUTPUTS	1V p-p, 75 ohms, sync negative
S-V IDEO OUTPUTS	(Y)1.0V(p-p), 75 Ω , negative sync., Mini DIN 4-pin x 1 (C)0.286V(p-p), 75 ohms(USA), (C)0.3V(p-p), 75 ohms(EUROPE)
Audio output(digital audio)	0.5V(p-p), 75 Ω , RCA jack X 1 (TO TV)
Audio output(optical audio)	Optical connector x 1
Audio output(analog audio)	2.0Vrms (1kHz, 0dB), 330 Ω , RCA jack (L, R) x 1 (TO TV)

SECTION 2

CABINET & MAIN CHASSIS

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DISASSEMBLY

CAUTION BEFORE STARTING SERVICING

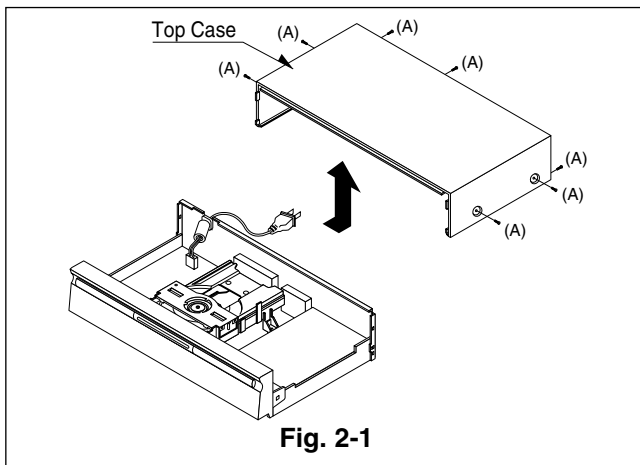
Electronic parts are susceptible to static electricity and may easily be damaged, so do not forget to take a proper grounding treatment as required.

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

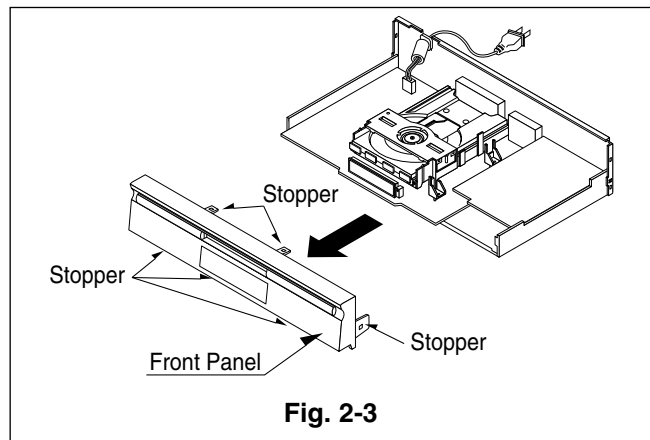
1. Top Case

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



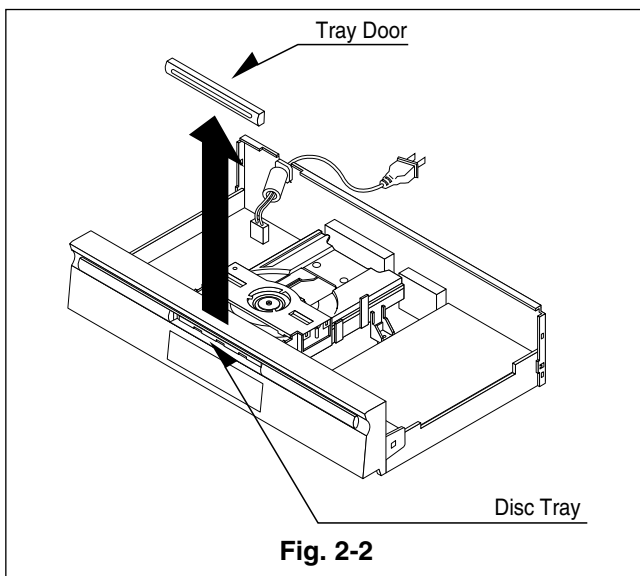
3. Front Panel

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



2. Tray Door

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

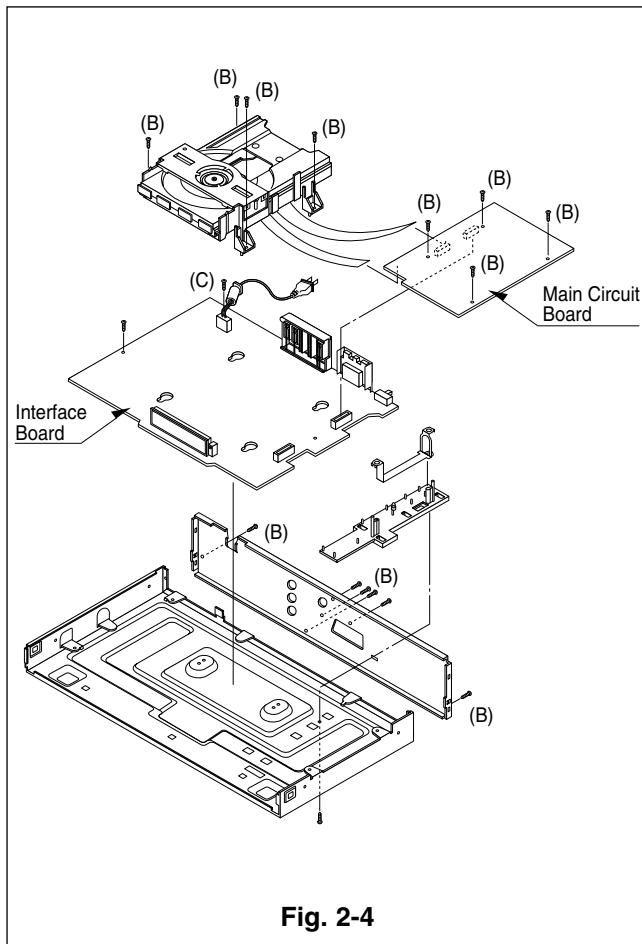


CIRCUIT BOARD DISASSEMBLY

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)

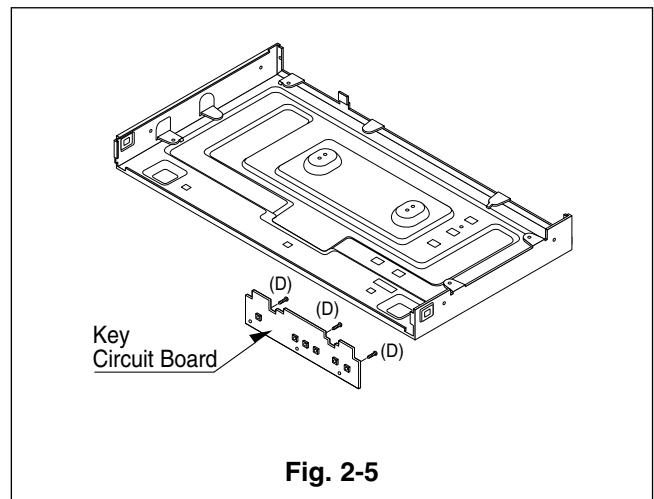
1. Disassembling of Main Circuit Board and Interface Board

1. Remove the top case.(See Fig. 2-1)
2. Remove 14 screw (B).
3. Remove the Deck from Main Circuit Board.
4. Remove Main Circuit Board from Interface Board.
5. Remove 2 screw (C).
6. Remove Interface Board from the chassis.



2. Digitron and Key Circuit Board

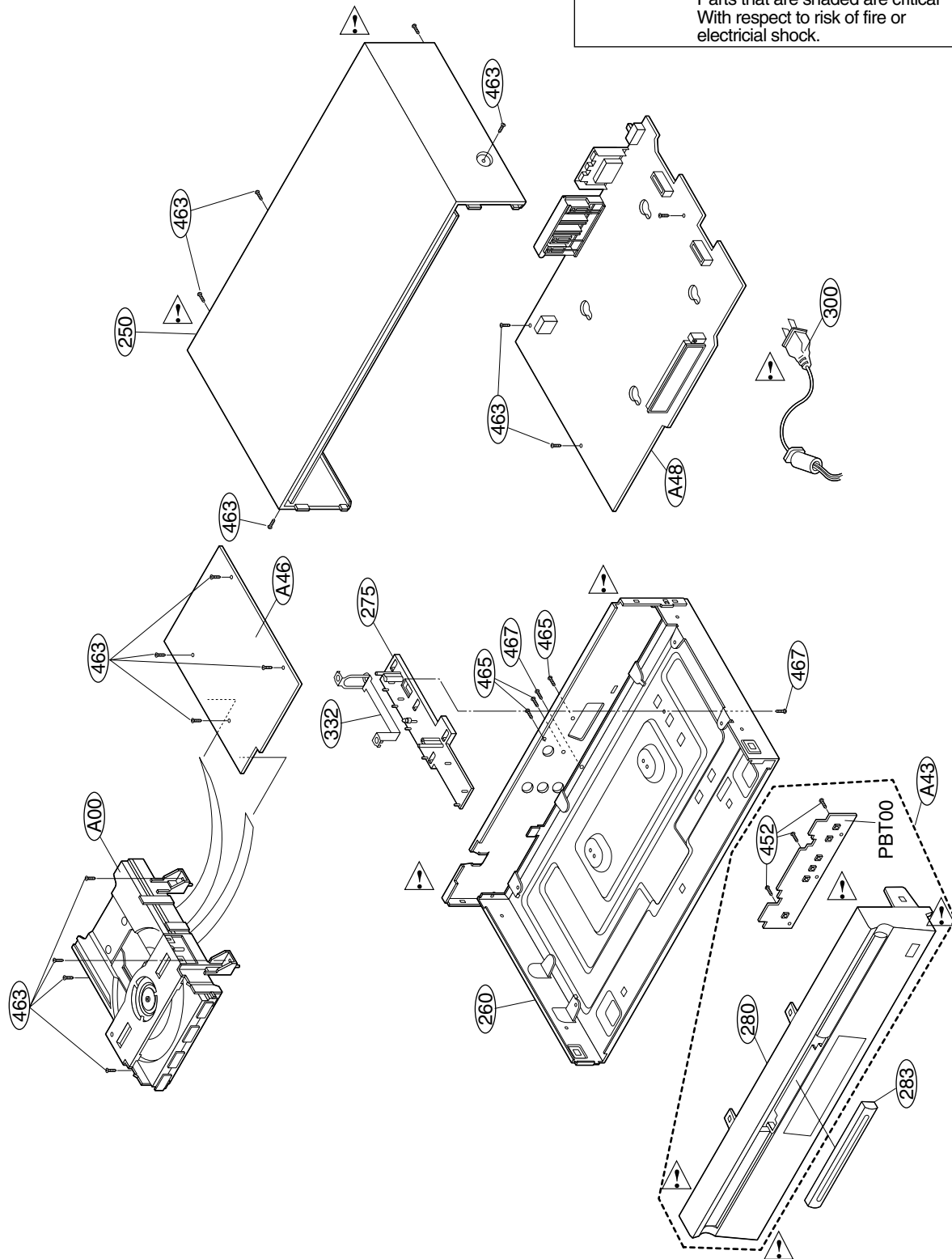
1. Remove the front panel.(See Fig. 2-3)
2. Release 3 screws (D), and remove the digitron circuit board.



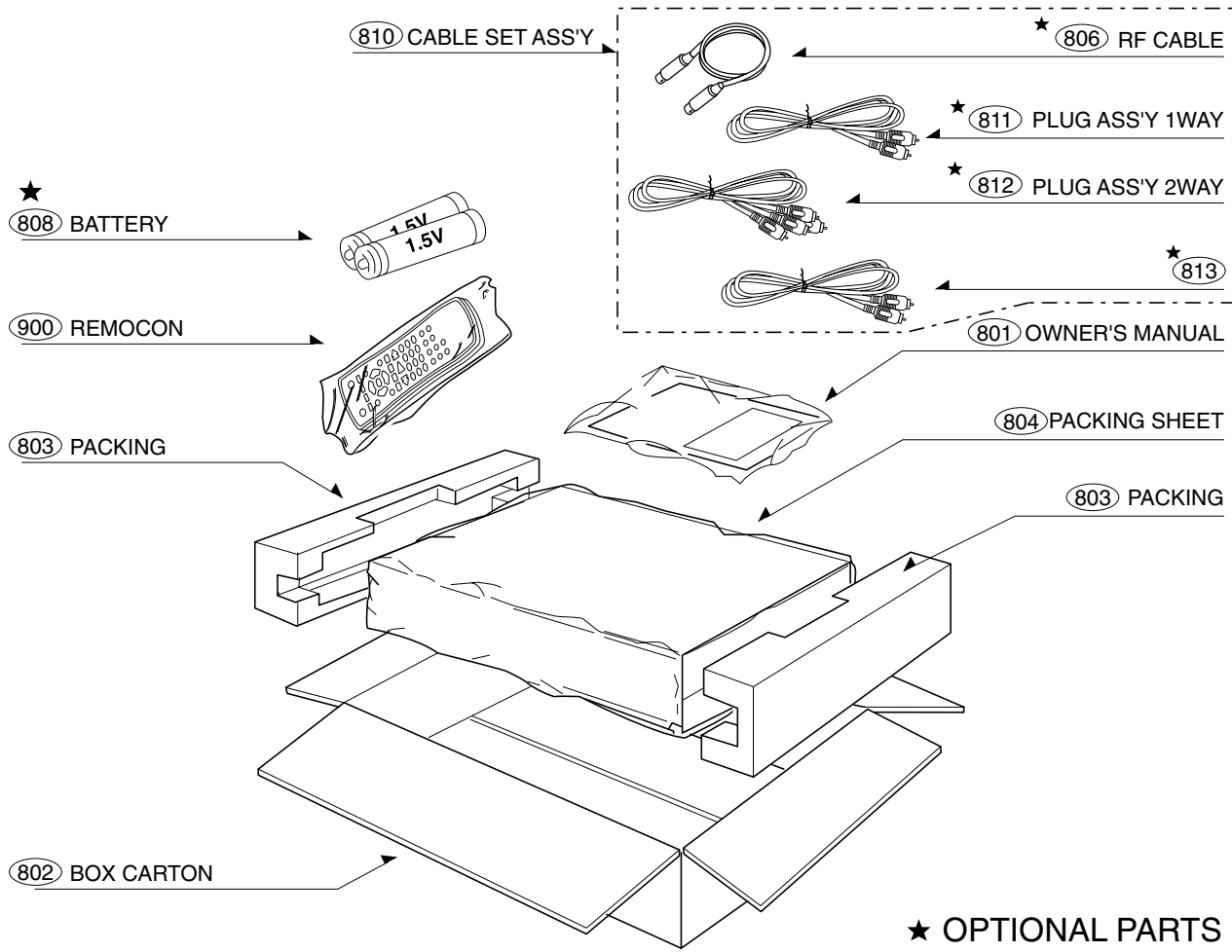
EXPLODED VIEWS

1. Cabinet and Main Frame Section

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



2. Packing Accessory Section



SECTION 3

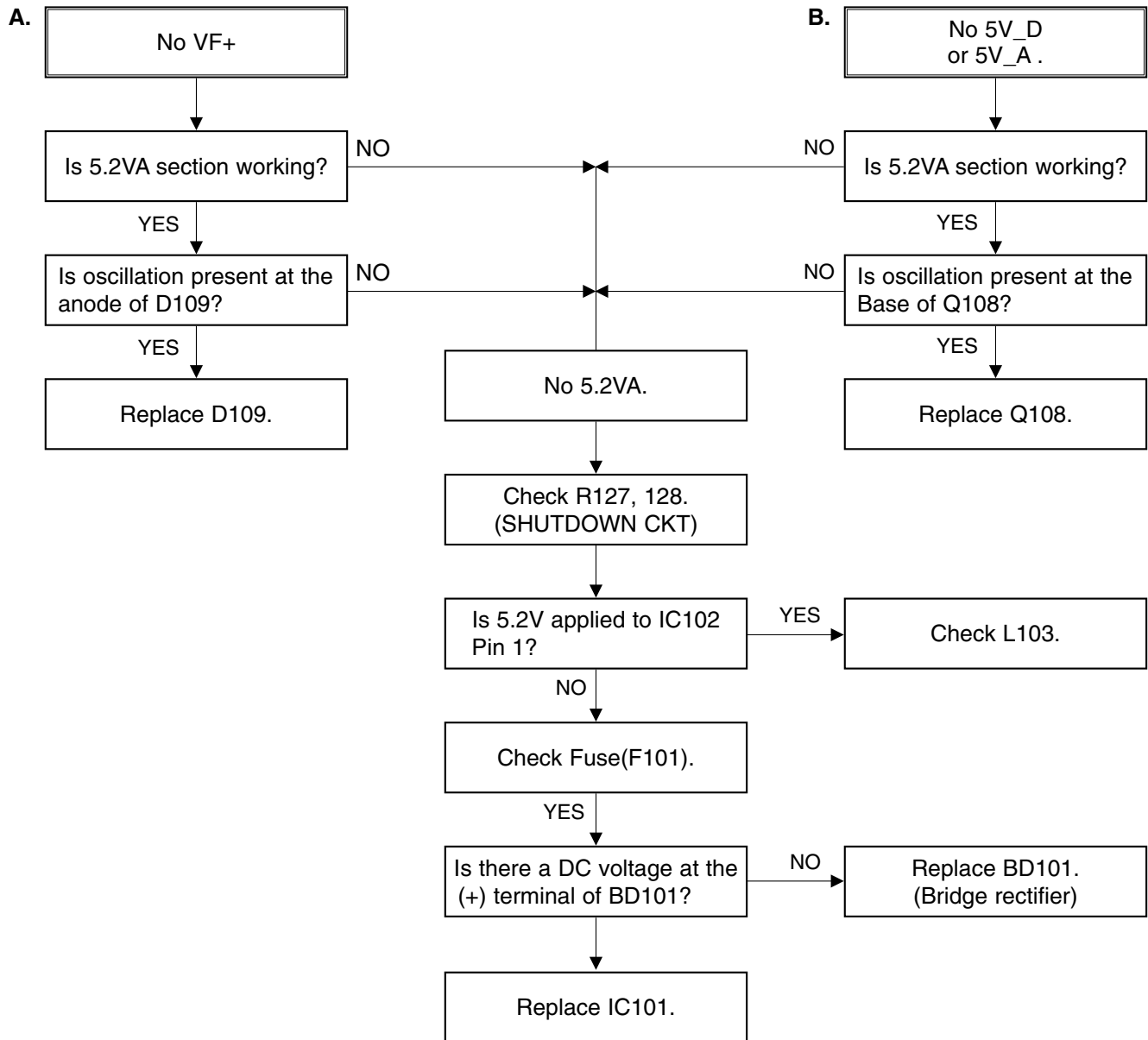
ELECTRICAL

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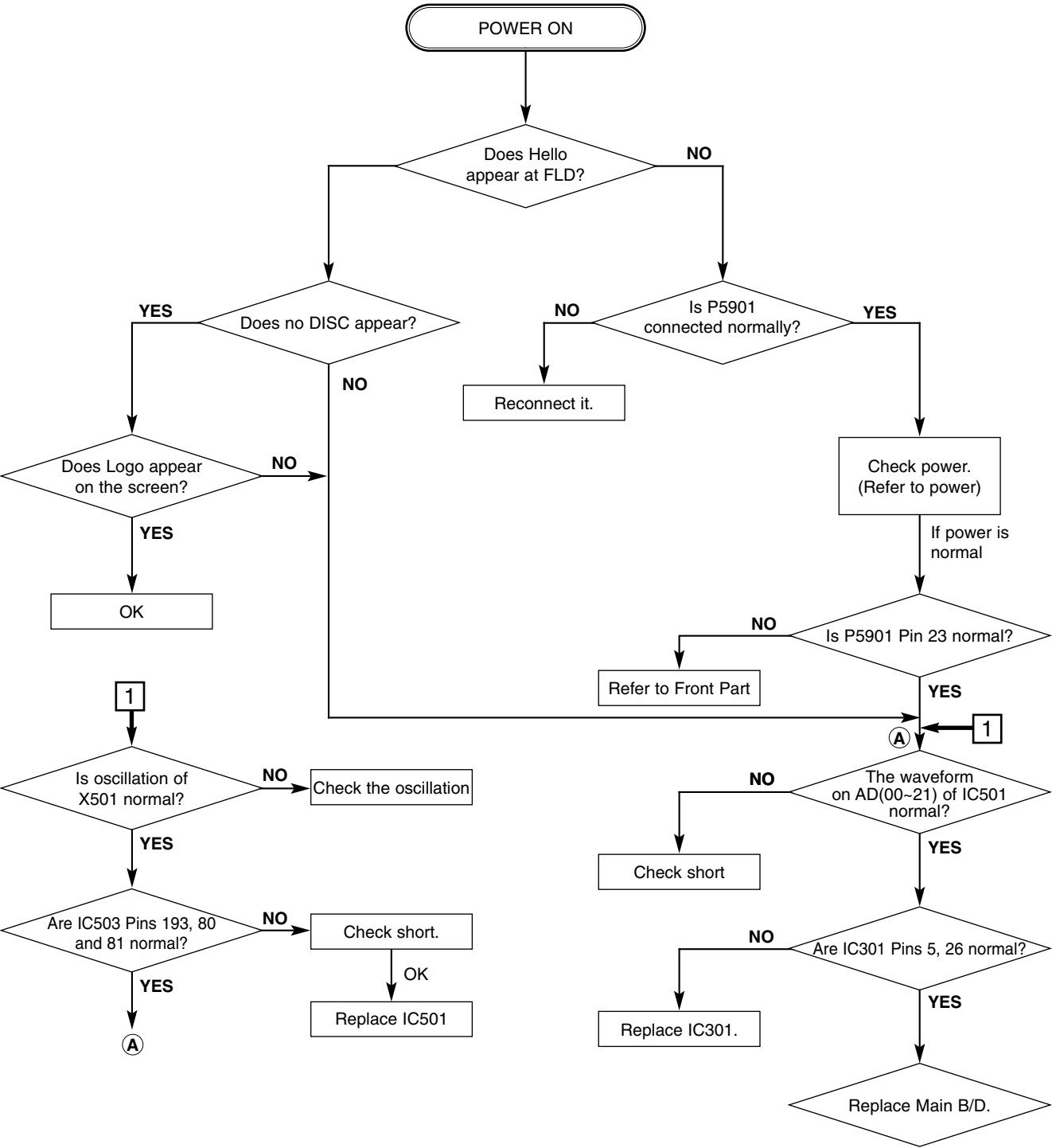
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ELECTRICAL TROUBLESHOOTING GUIDE

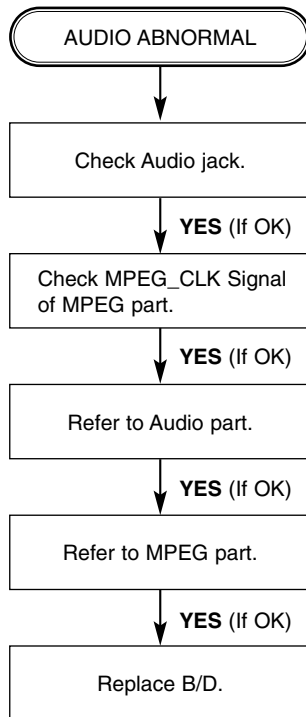
1. Power(SMPS) Circuit



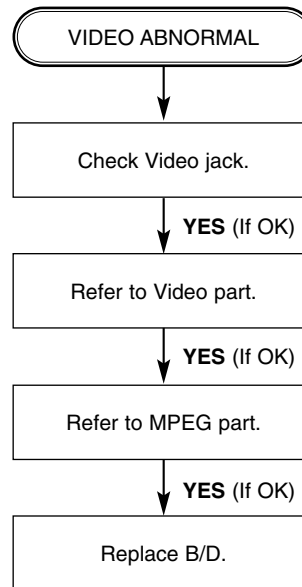
2. μ -COM Circuit
A. No Power



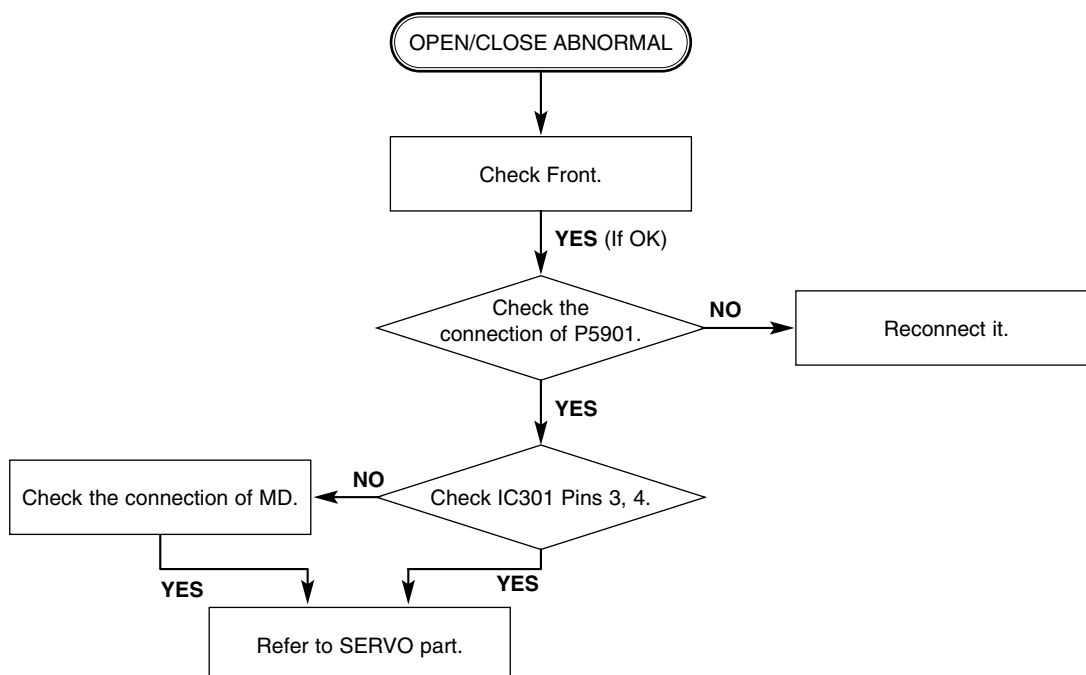
B. Audio abnormal



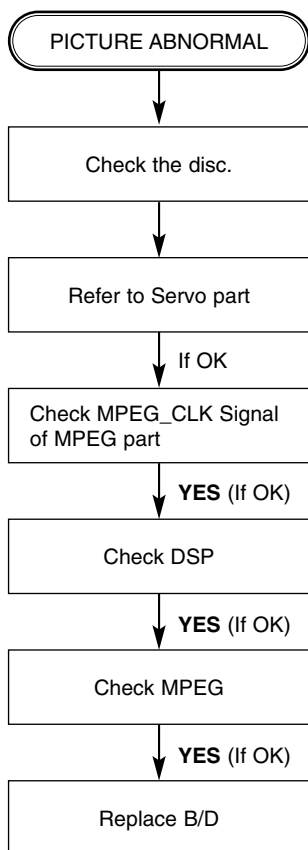
C. Video abnormal



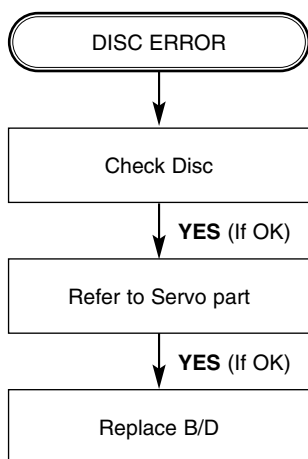
D. Open/Close abnormal



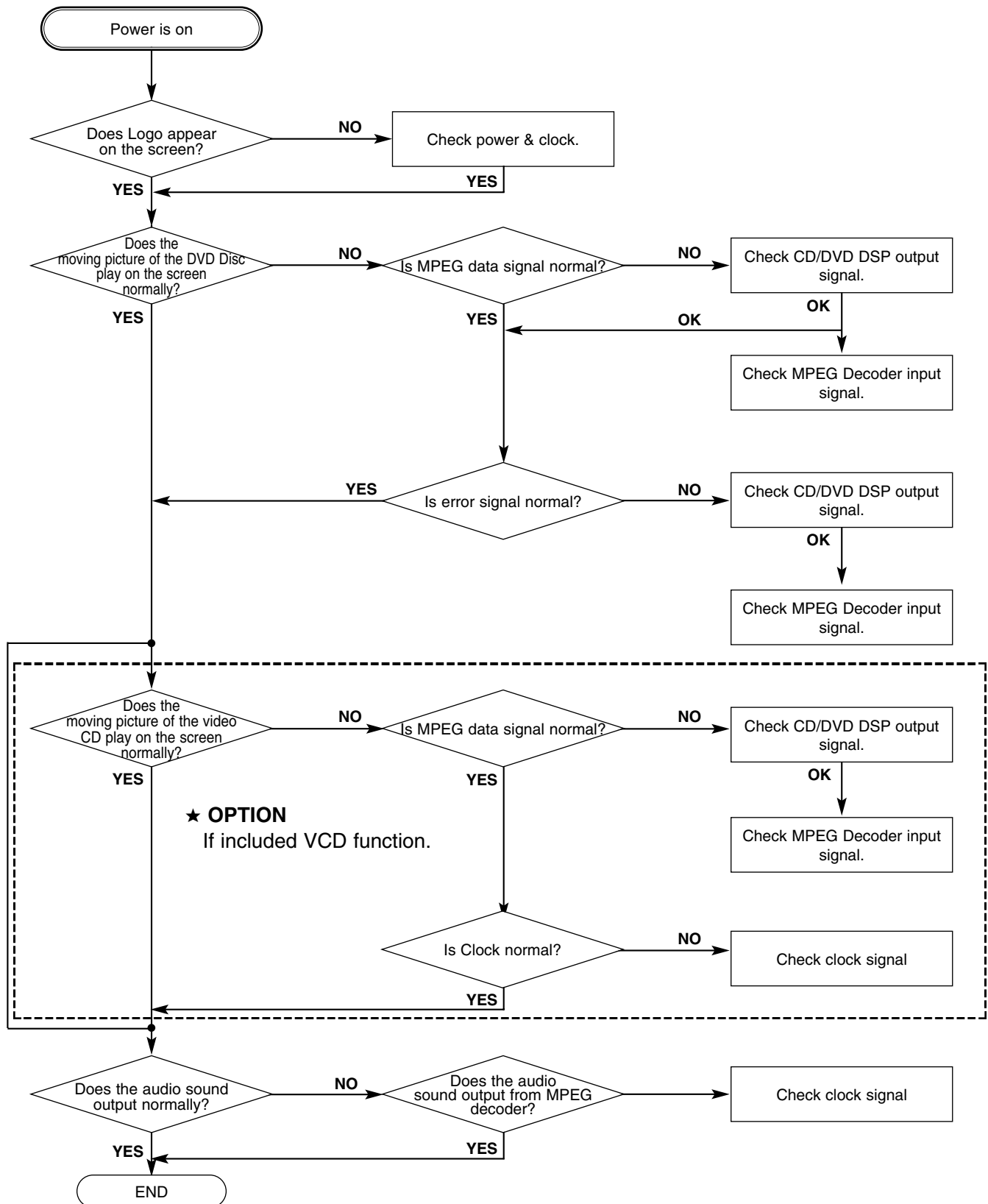
E. Picture abnormal



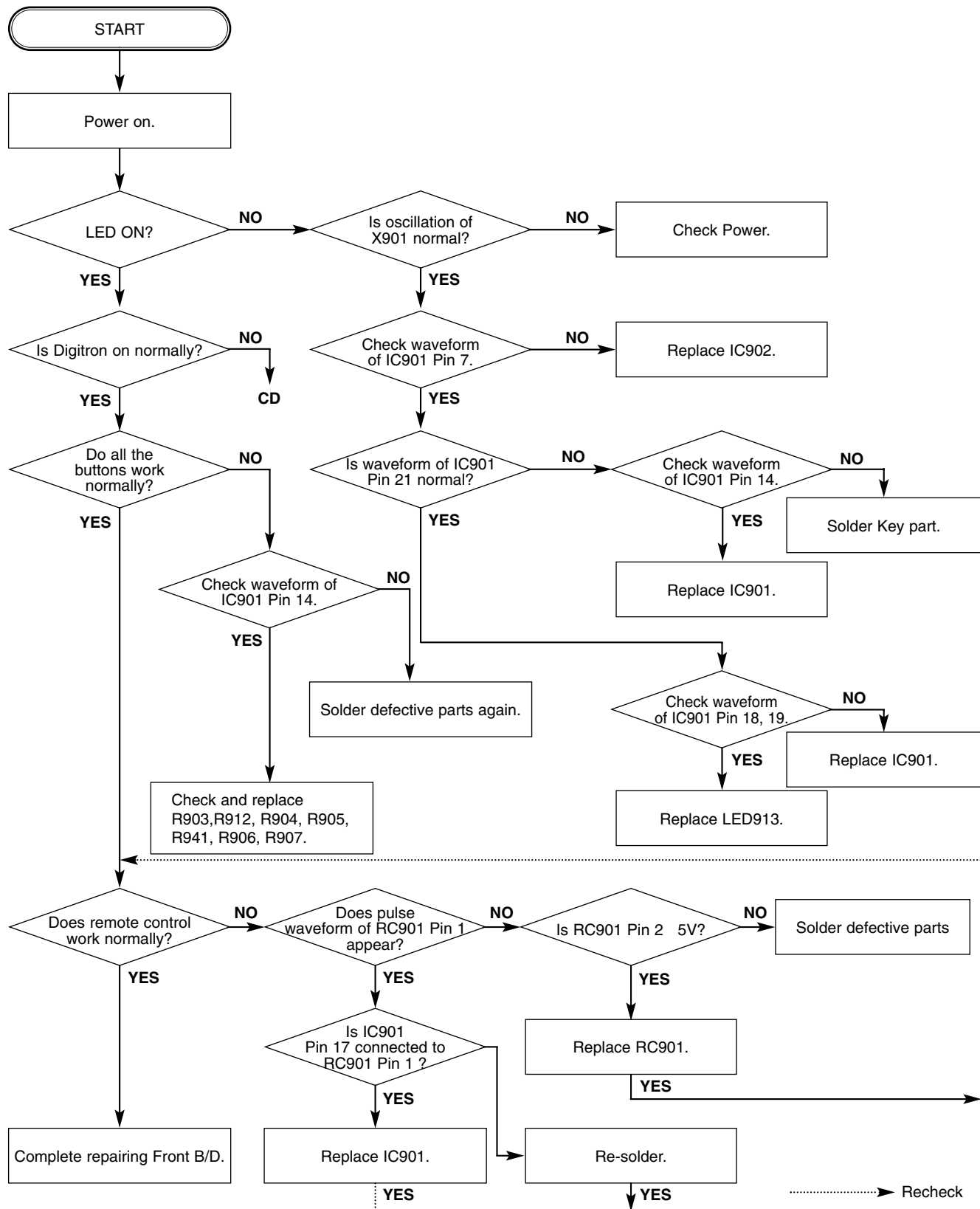
F. Disc Error



3. MPEG Circuit

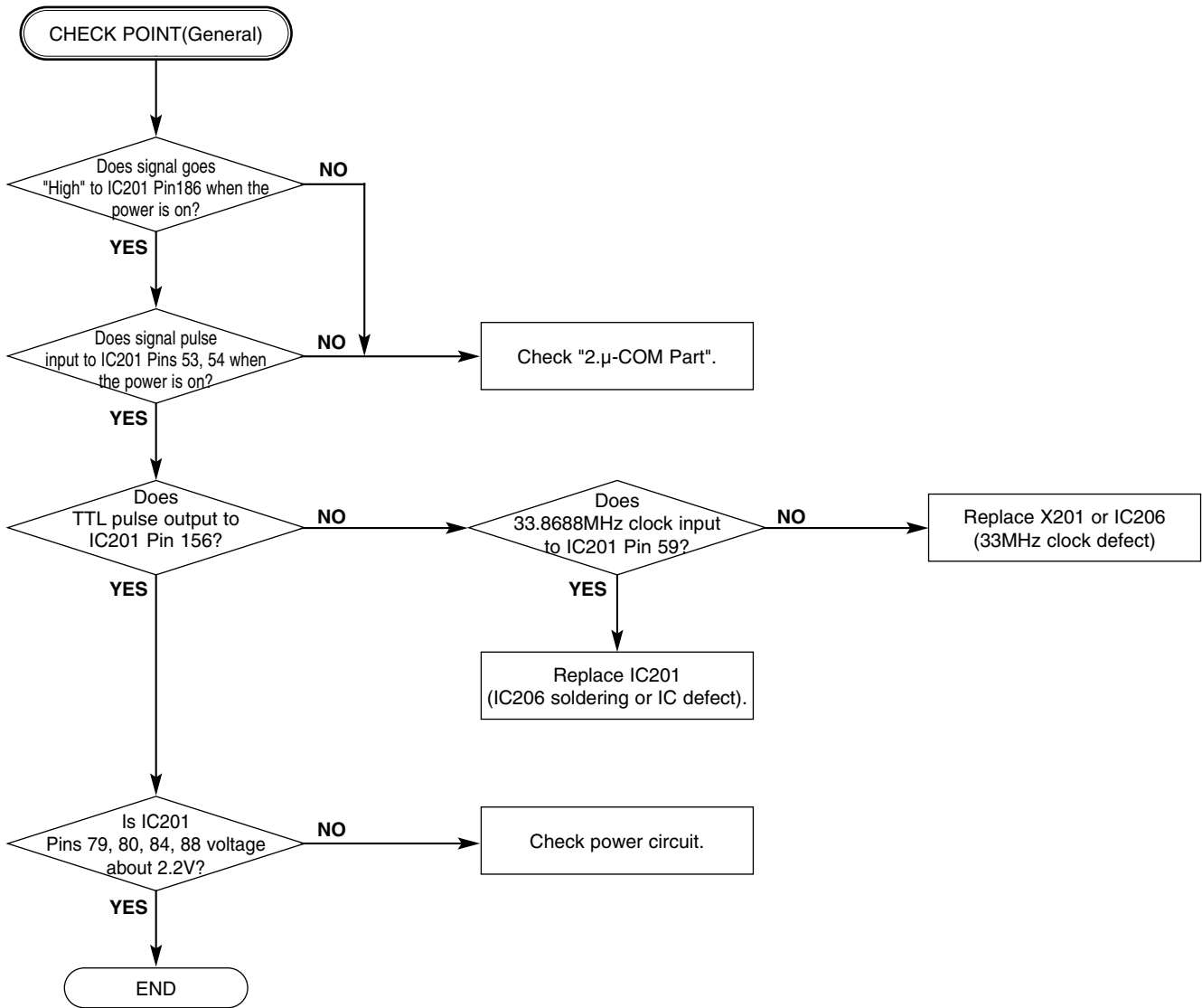


4. Front Circuit (Digitron & key)

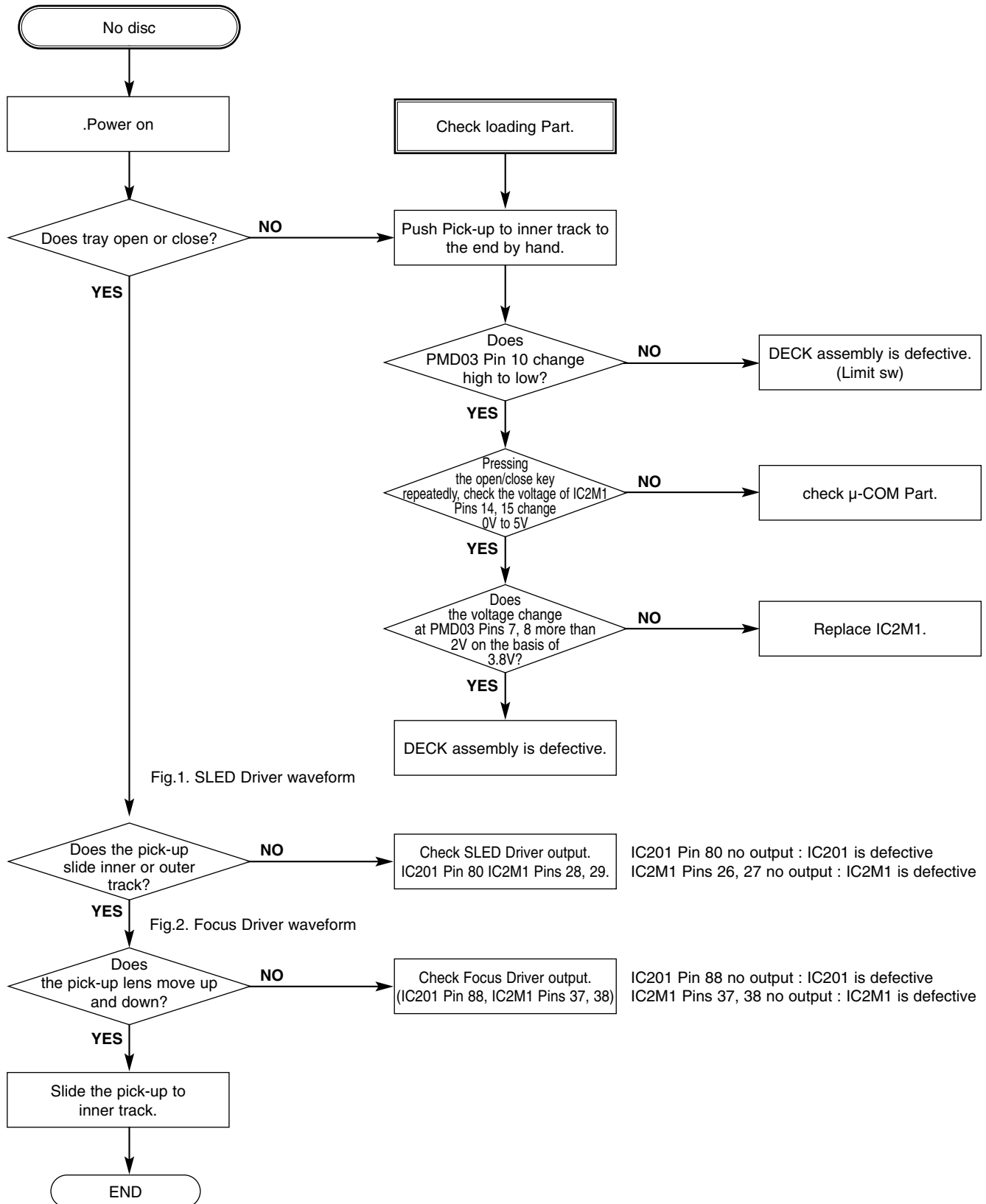


5. RF/Servo Circuit

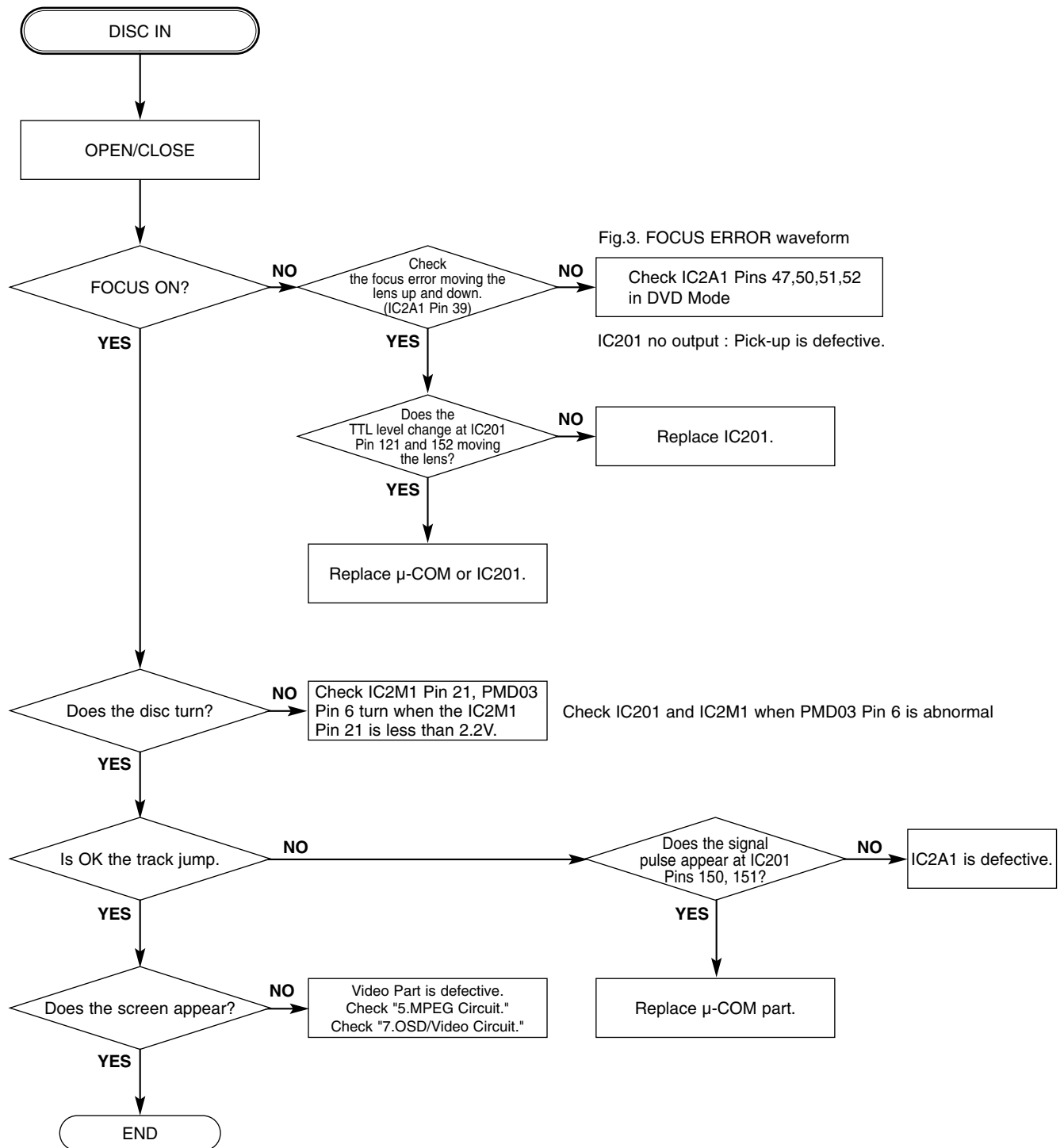
A.



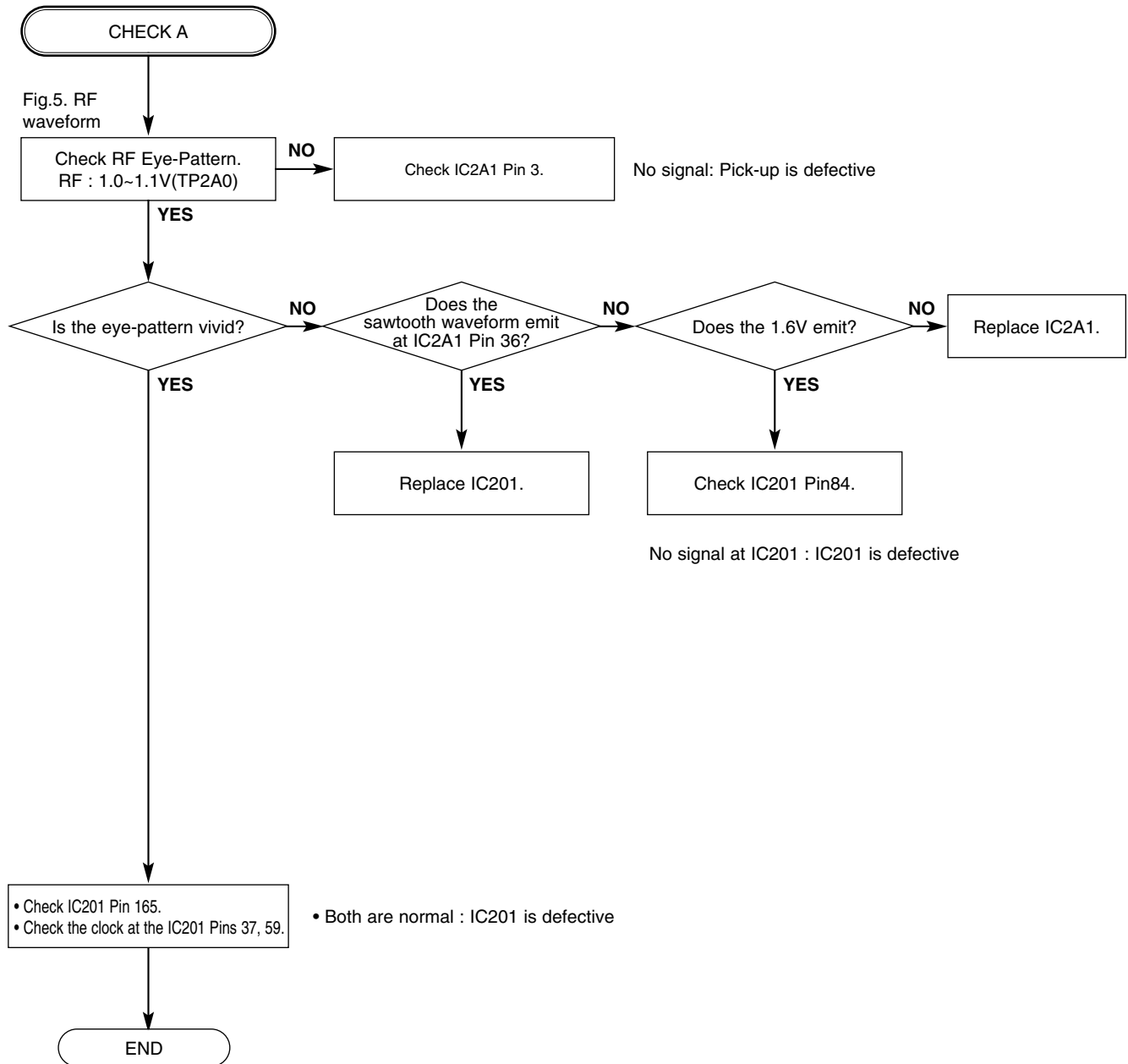
B.



C.



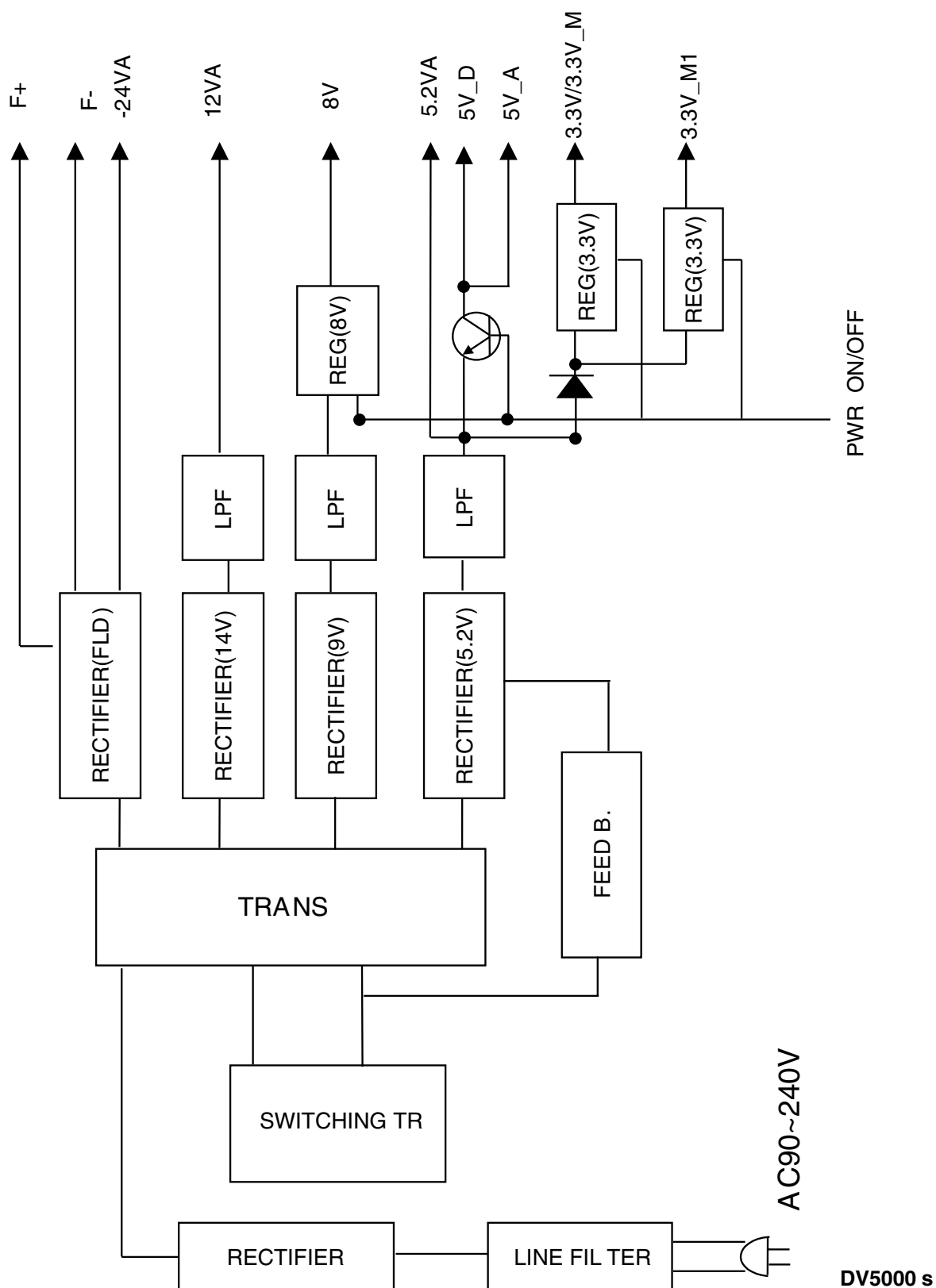
D.



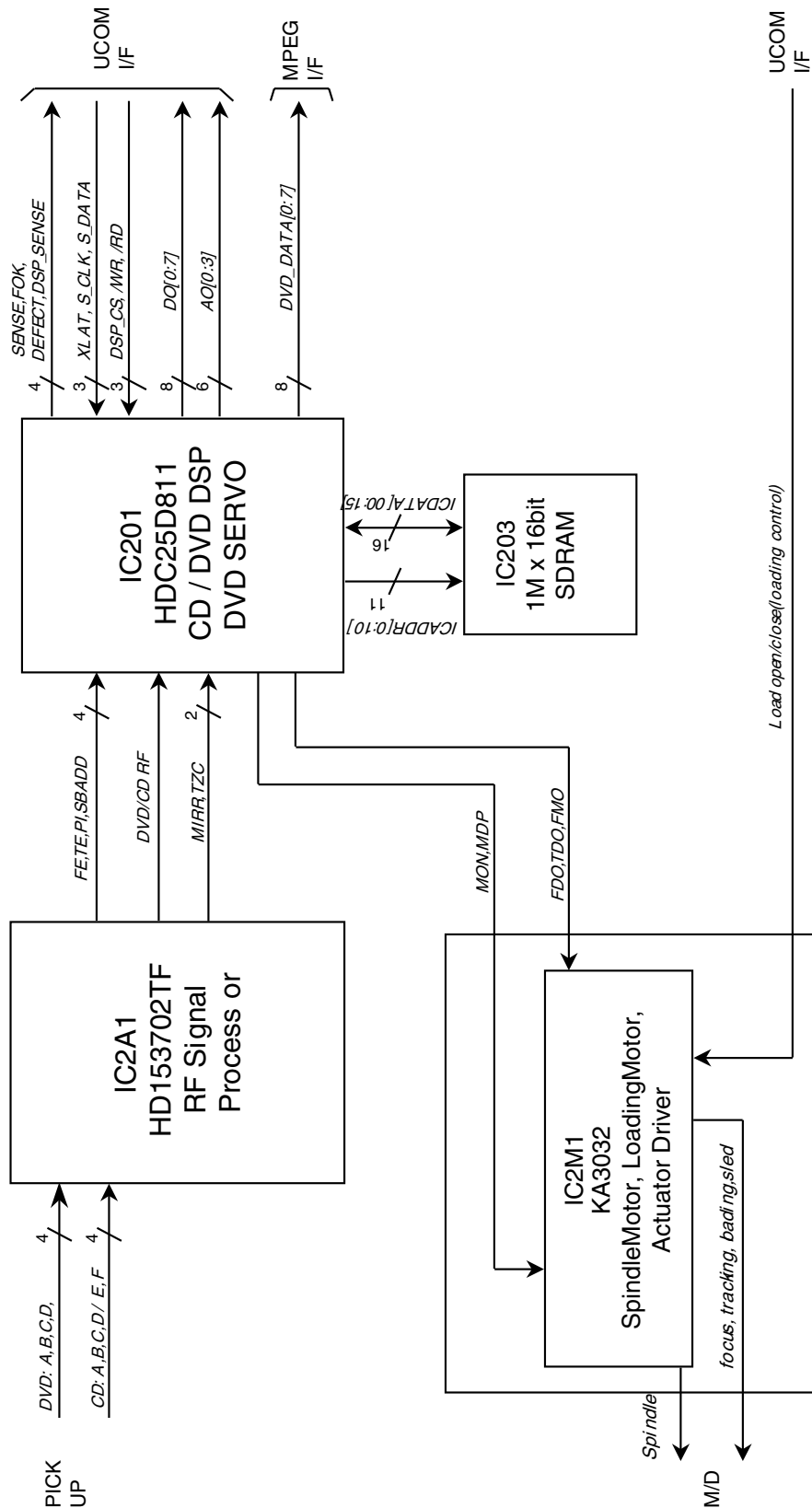
1. Overall Block Diagram



2. Power(SMPS) Block Diagram

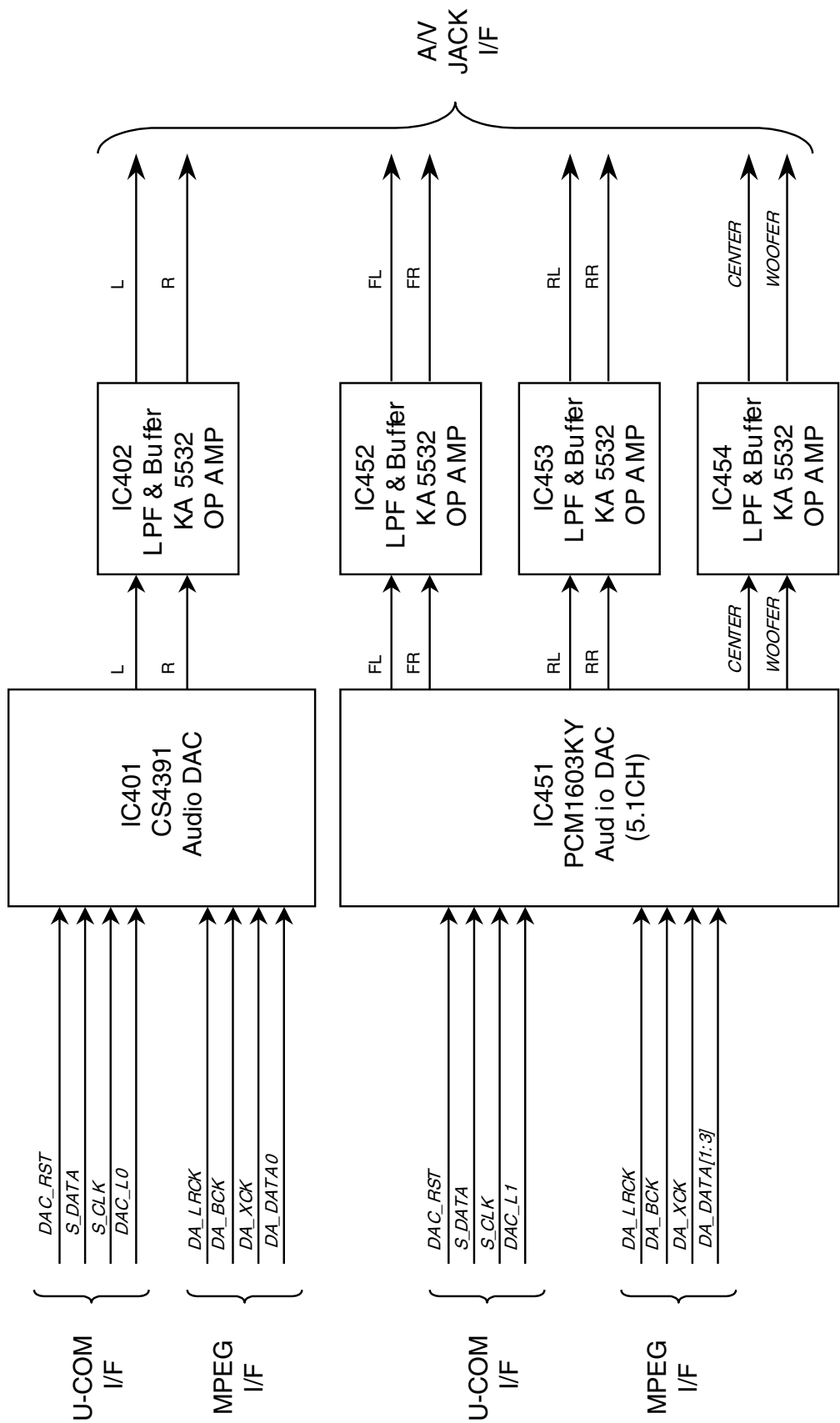


3. RF/CD DSP/DVD DSP/DVD SERVO Block Diagram

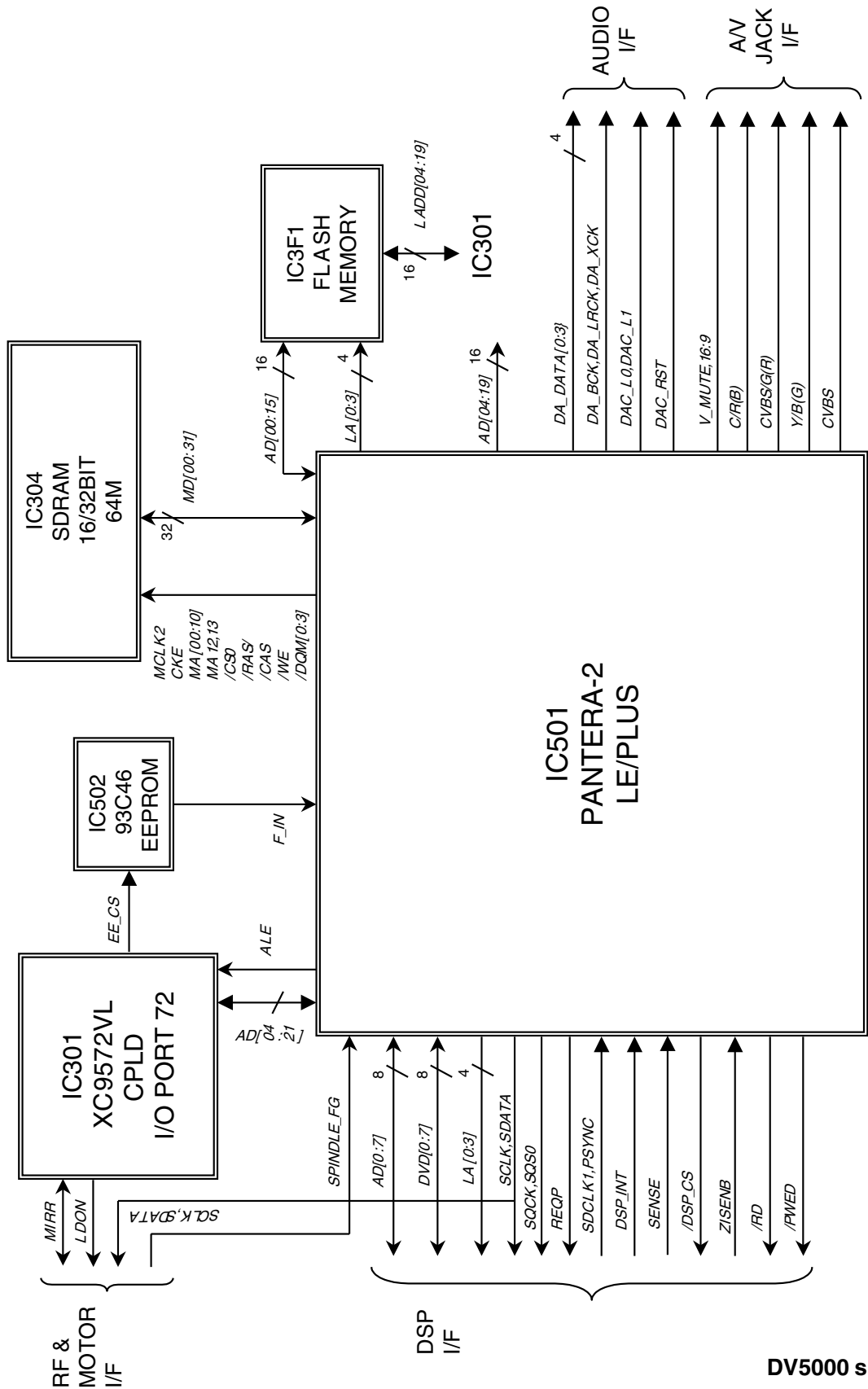


DV5000's

4. Audio Block Diagram



5. MPEG & MEMORY Block Diagram



DV5000 s

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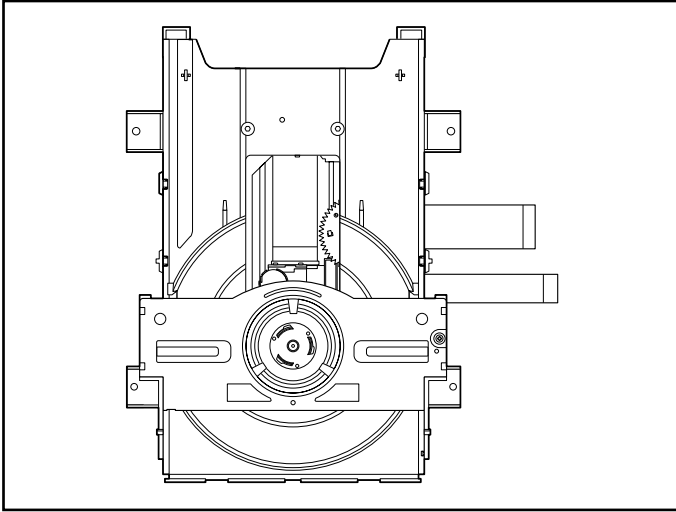
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EXPLODED VIEW

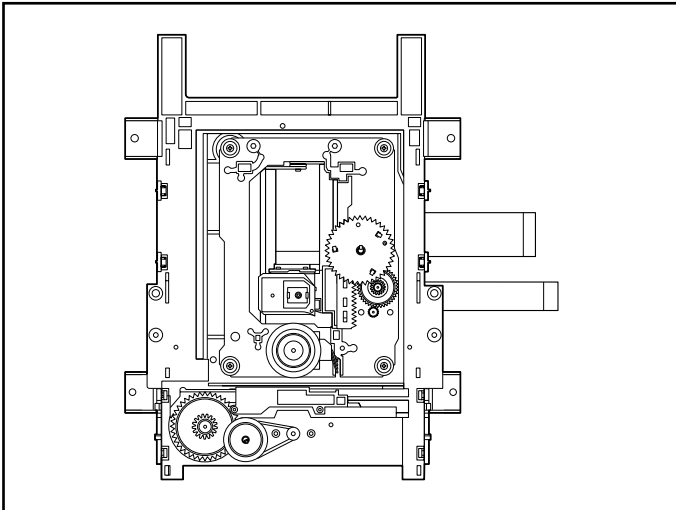
- 1. Deck Mechanism Exploded View....4-5

DECK MECHANISM PARTS LOCATION

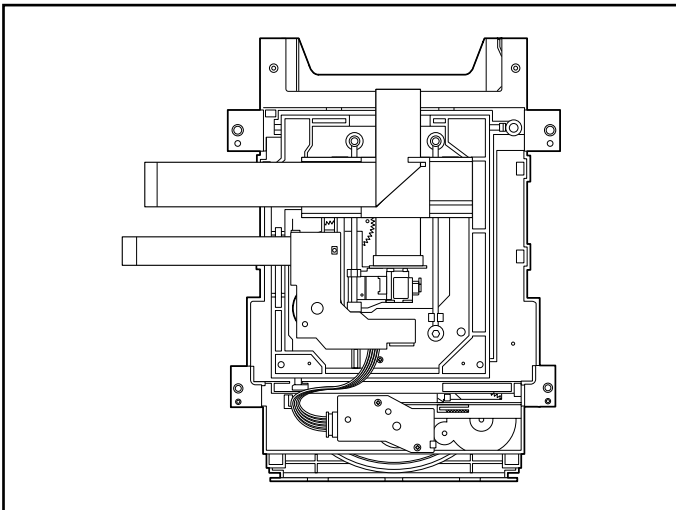
• Top View (With Tray)



• Top View (Without Tray)



• Bottom View



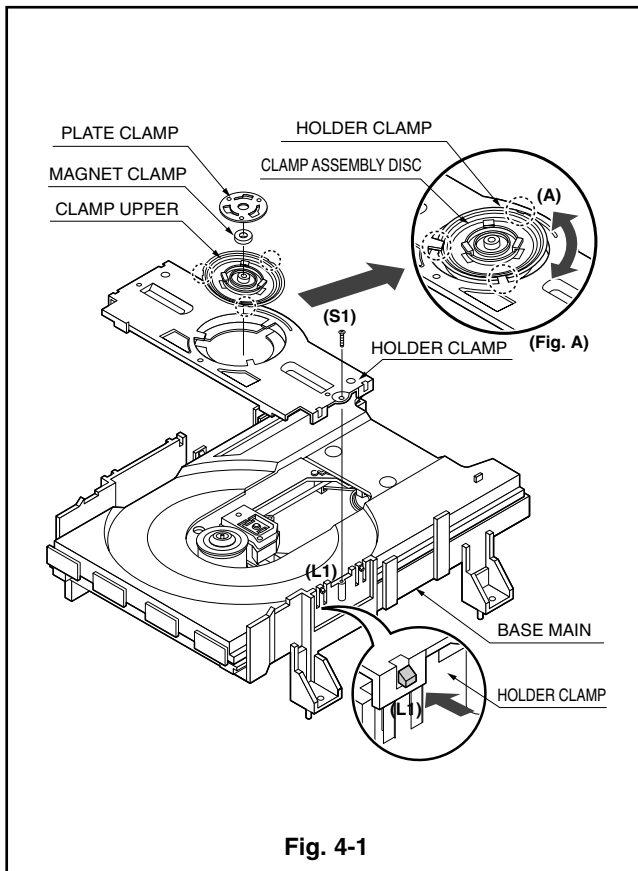
Procedure		Parts	Fixing Type	Disassembly	Figure
Starting No.					
	1	Holder Clamp	2 Screws, 2 Locking Tabs		4-1
1	2	Clamp Assembly Disc			4-1
1, 2	3	Plate Clamp			4-1
1, 2, 3	4	Magnet Clamp			4-1
1, 2, 3, 4	5	Clamp Upper			4-1
1	6	Tray Disc			4-2
1, 6	7	Base Assembly Sled			4-3
1, 2, 6	8	Gear Assembly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



1. Holder Clamp (Fig. 4-1)

- 1) Release 1 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

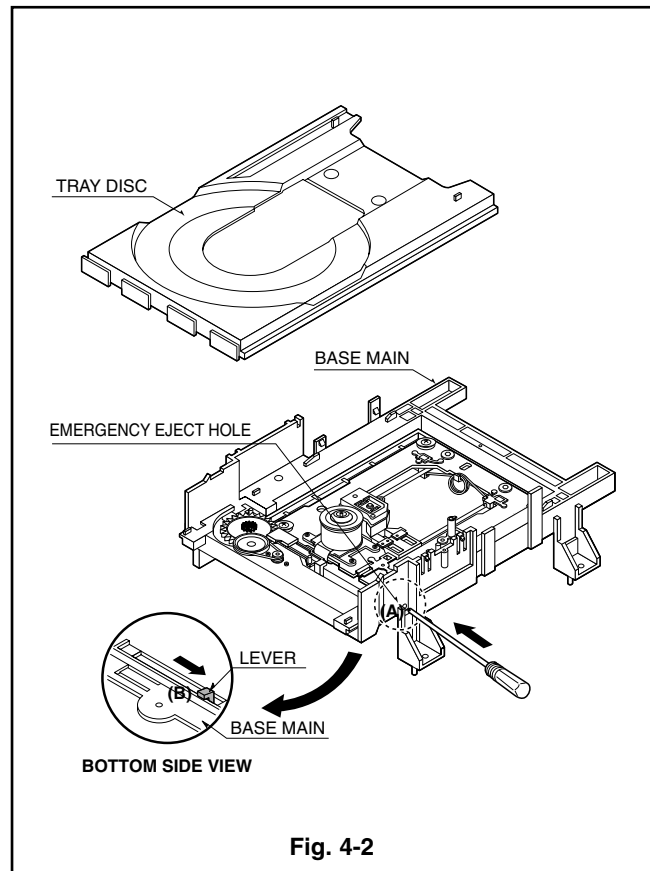
- 1) Place the Clamp Assembly Disc as Fig. (A)
- 2) Lift up the Clamp Assembly Disc in direction of arrow(A).
- 3) Separate the Clamp Assembly Disc from the Holder Clamp.

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

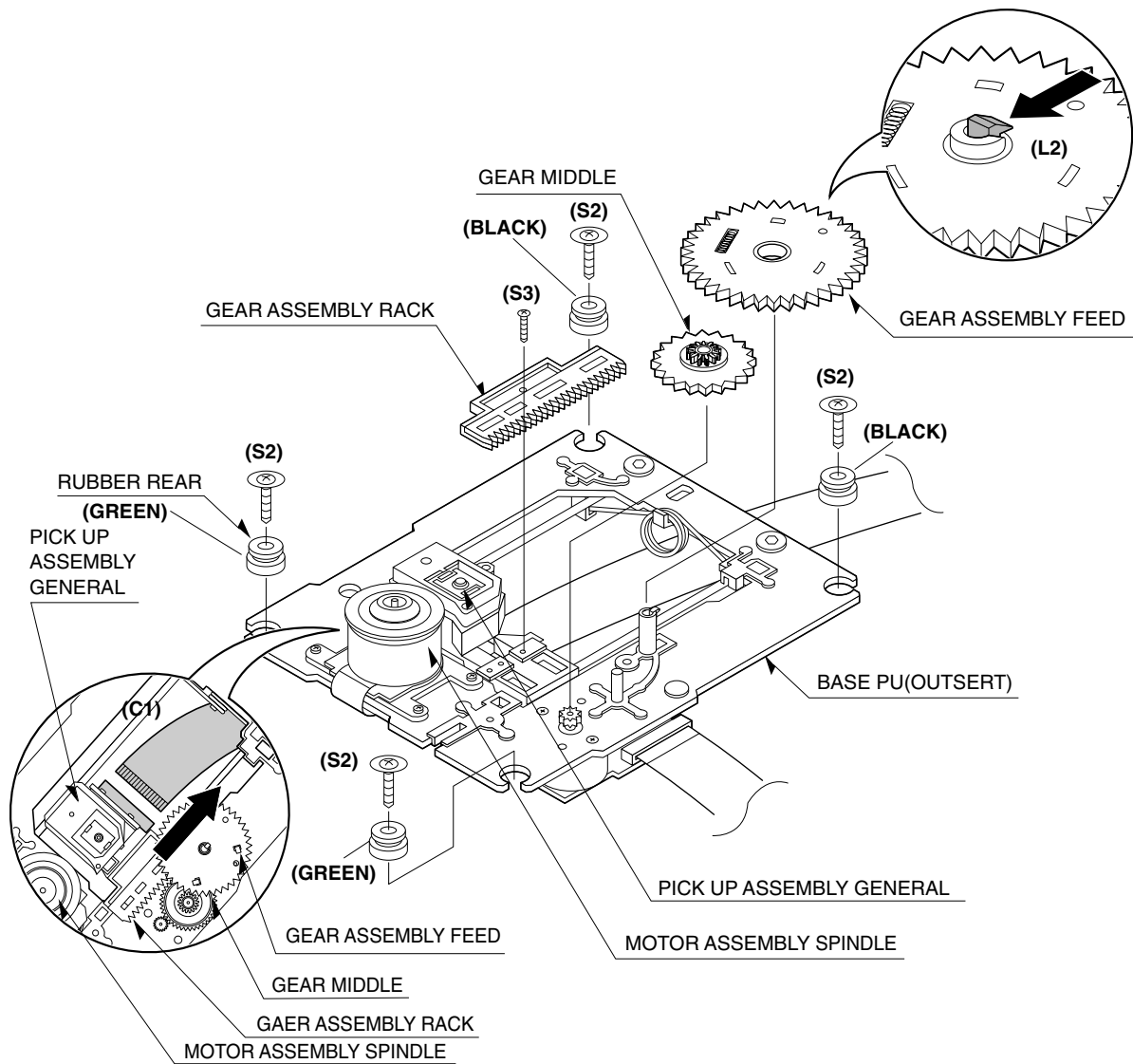


Fig. 4-3

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 Screw(S3)

4. Rubber Rear (Fig. 4-3)

DECK MECHANISM DISASSEMBLY

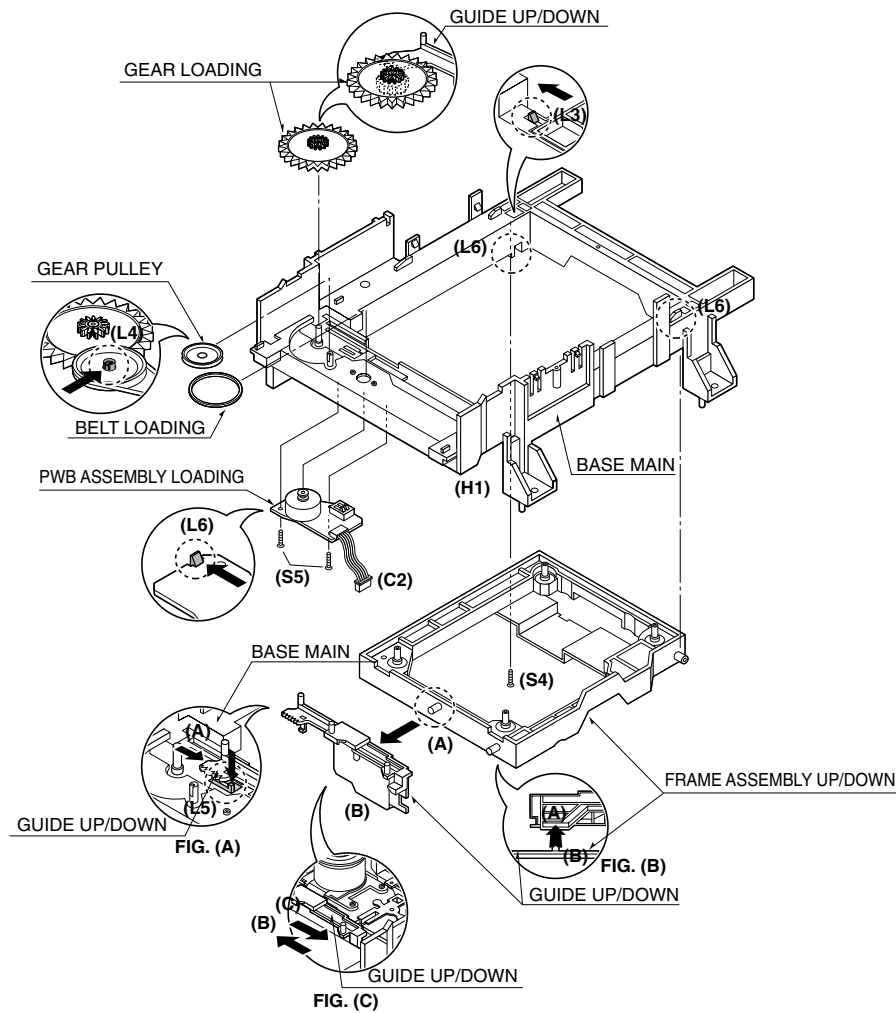


Fig. 4-4

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.

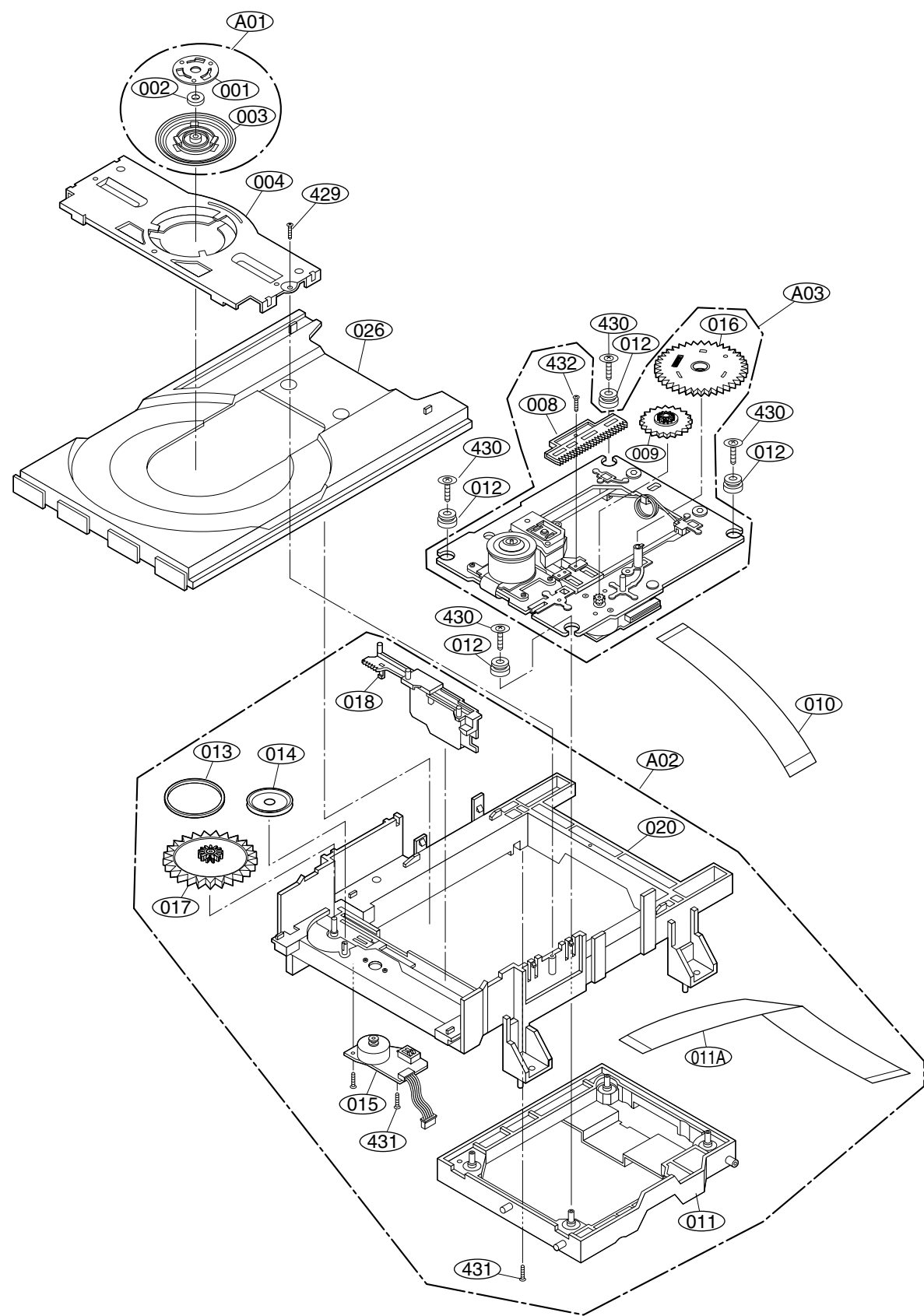
11. Base Main(Fig. 4-4)

MEMO

Handwriting practice lines consisting of 25 horizontal dotted lines.

EXPLODED VIEWS

1. Deck Mechanism Exploded View



MEMO

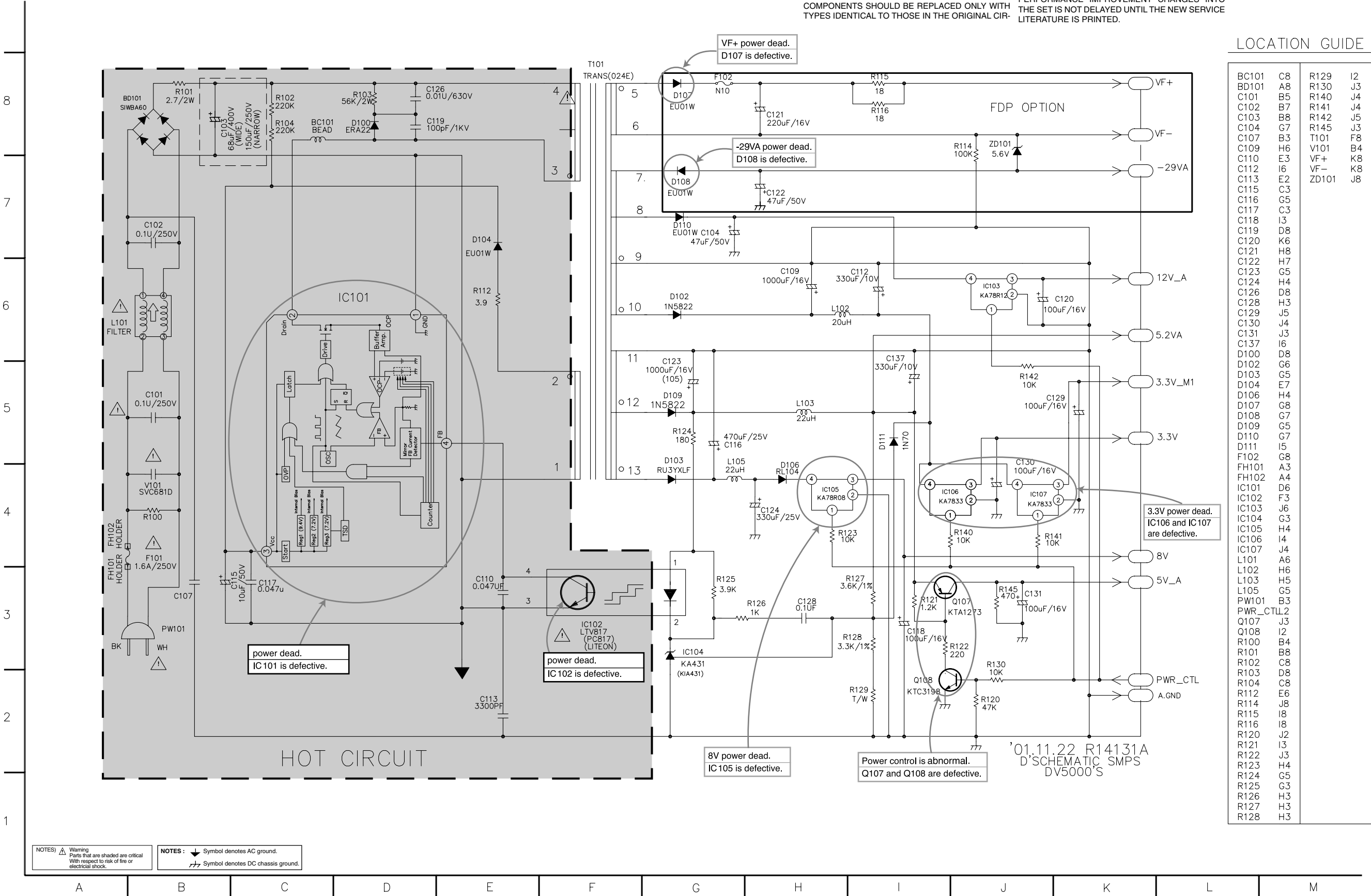
Handwriting practice area with 25 horizontal dotted lines.

MEMO

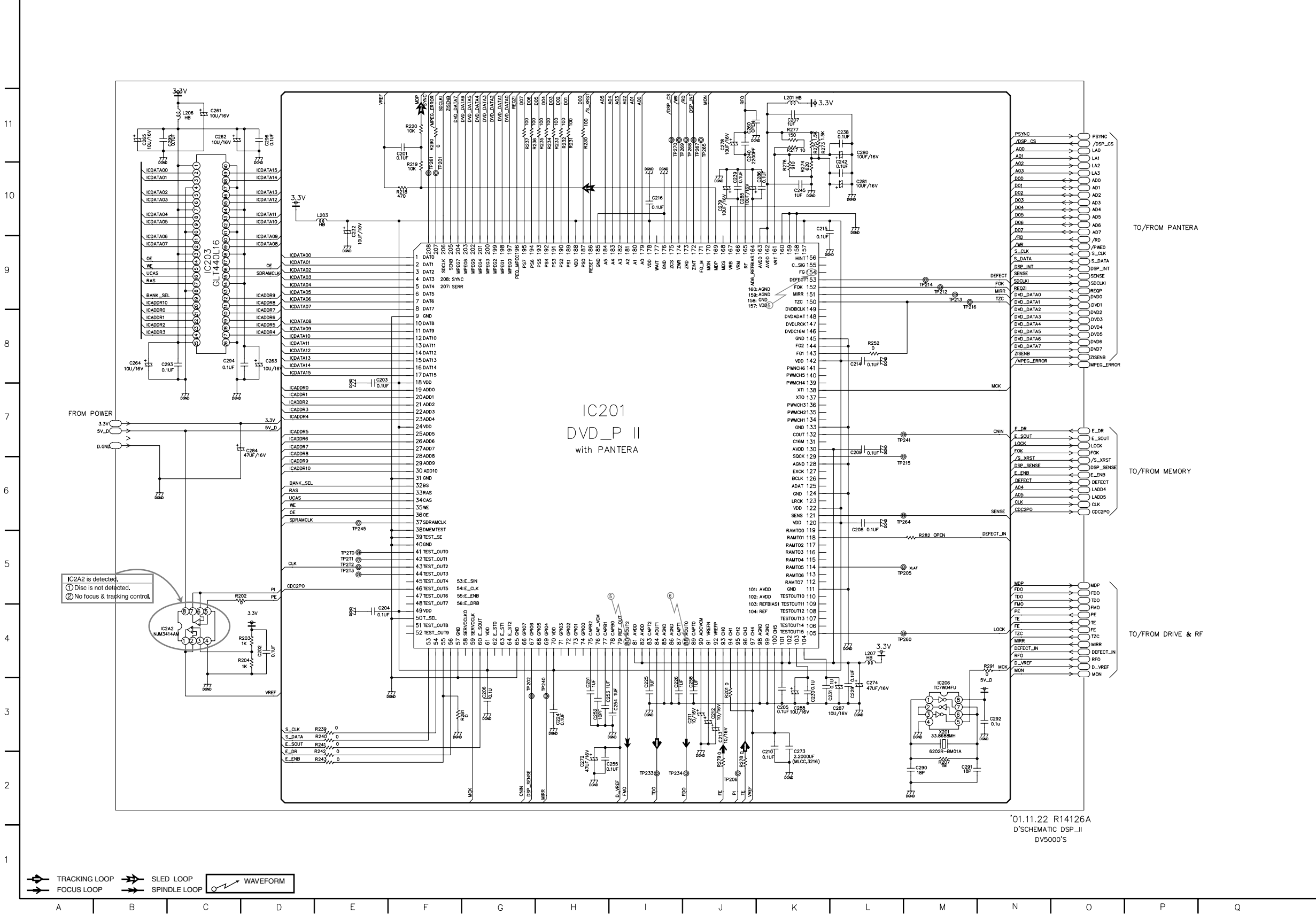
Handwriting practice area with 25 horizontal dotted lines.

CIRCUIT DIAGRAM

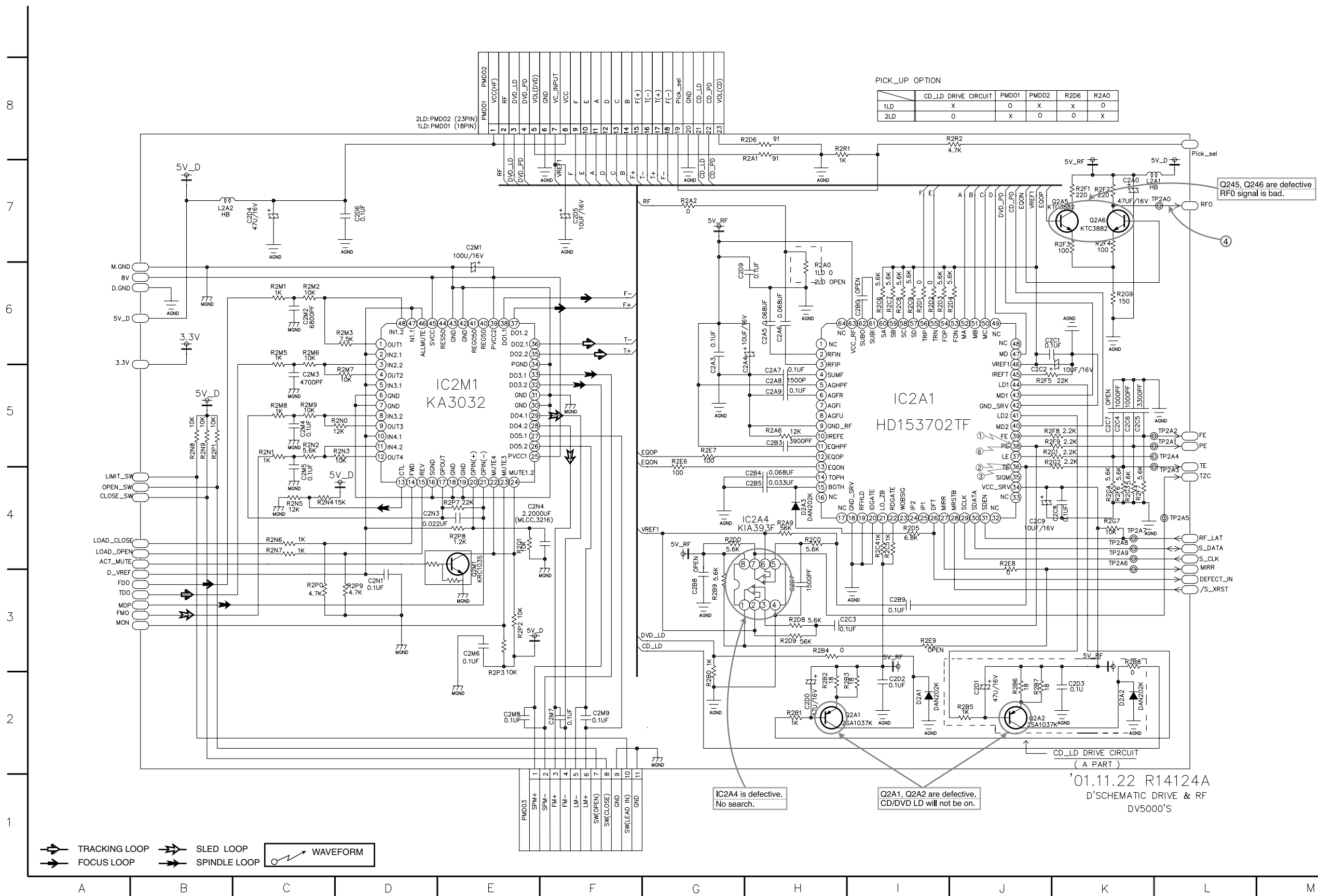
1. POWER(SMPS) CIRCUIT DIAGRAM



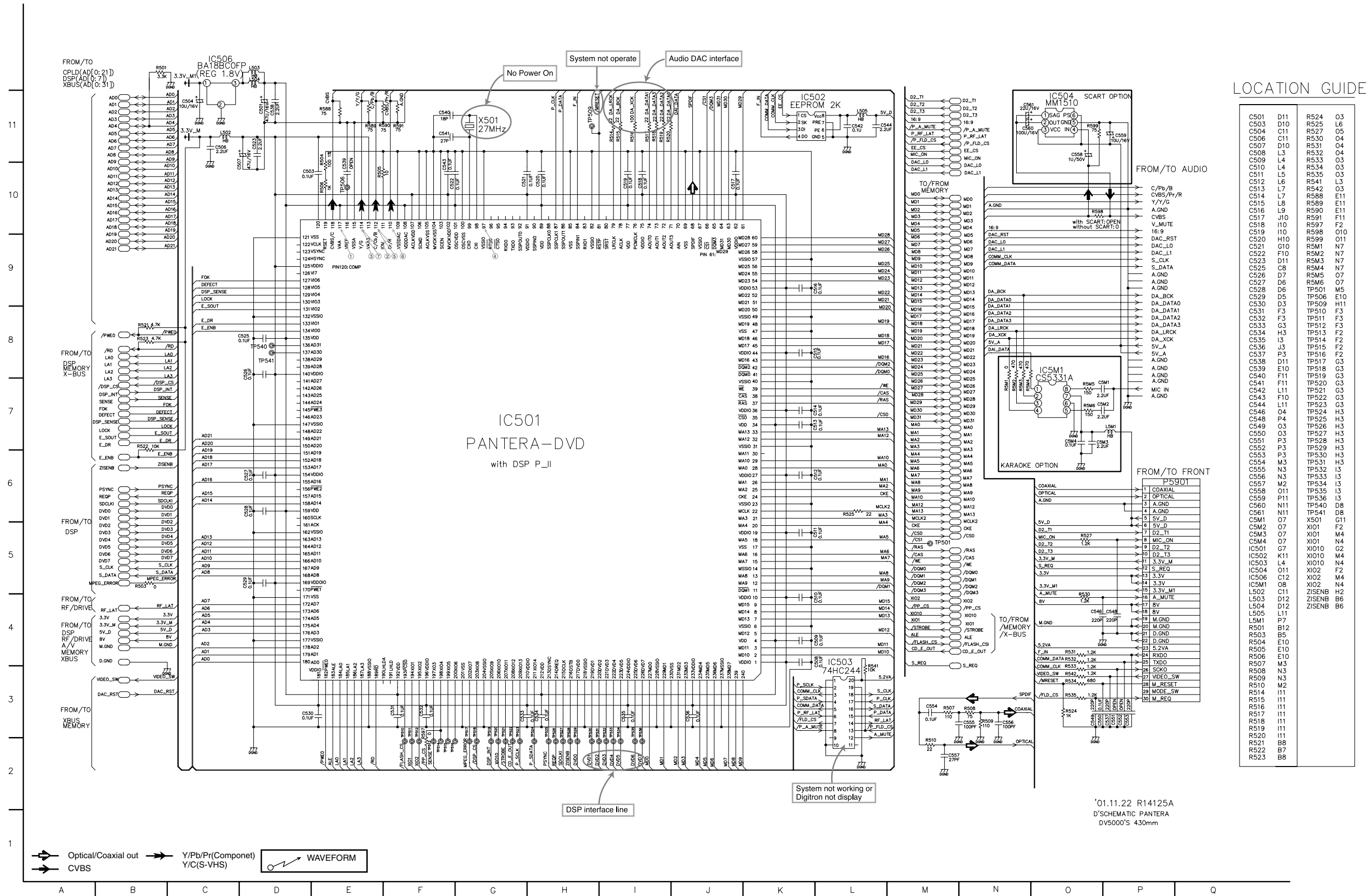
2. DVD DSP CIRCUIT DIAGRAM



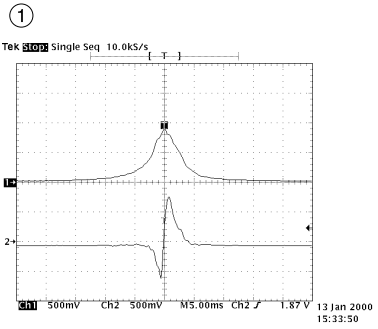
3. DRIVE & RF CIRCUIT DIAGRAM



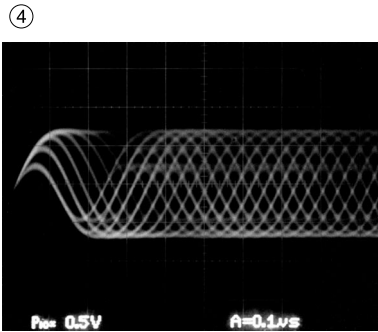
4. MPEG CIRCUIT DIAGRAM



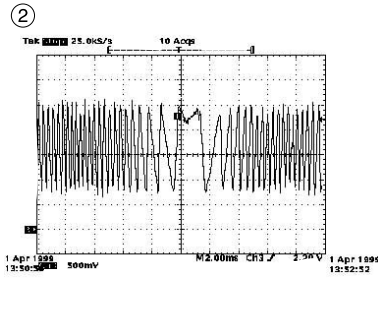
• WAVEFORMS



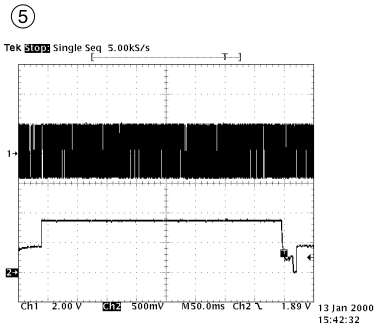
IC2A1 Pin 39, Focus Error
IC2A1 Pin 38, PE



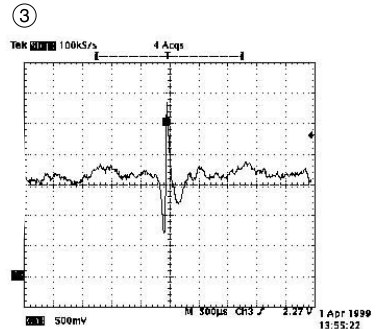
Q2A6 Collector output(TP2AO)
RF



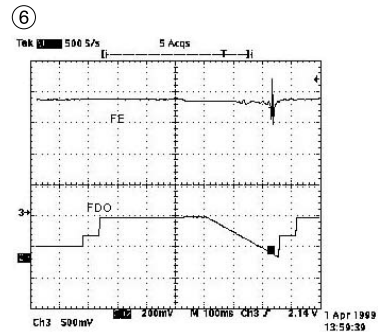
IC2A1 Pin 36
Tracking Error



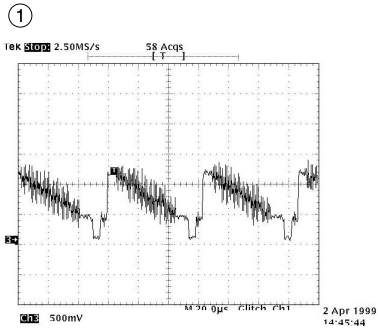
IC201 Pin 80, SLED FG
IC201 Pin 154, SLED FMO



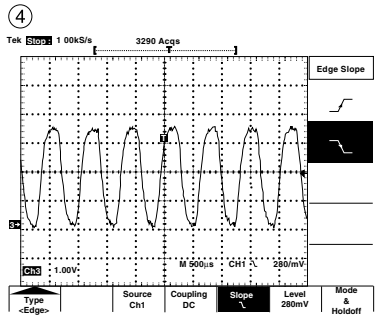
IC2A1 Pin 36
VBR TRACKING Error



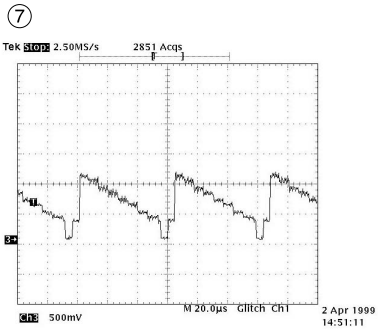
IC2A1 Pin 39, Focus Error(in Focus Search)
IC201 Pin 88, Focus Drive(FDO)



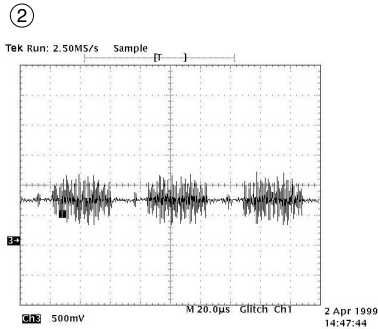
IC501 Pin 118, Composite



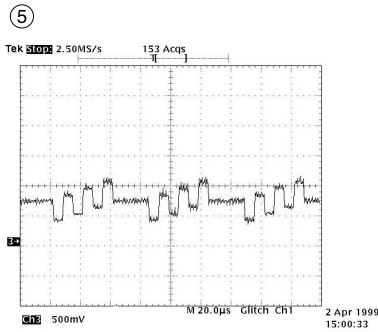
IC501 Pin 98,
MPEG Clock(27MHz)



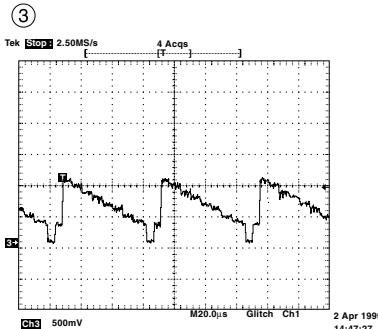
IC501 Pin 114
Component Y



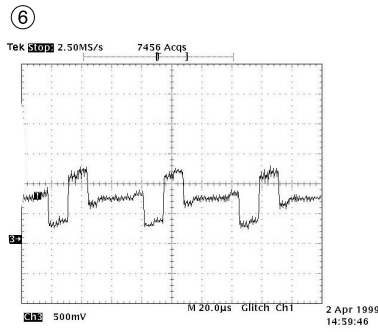
IC501 Pin 112, Chrominance
(Super video out Mode)



IC501 Pin 112
Component Pb

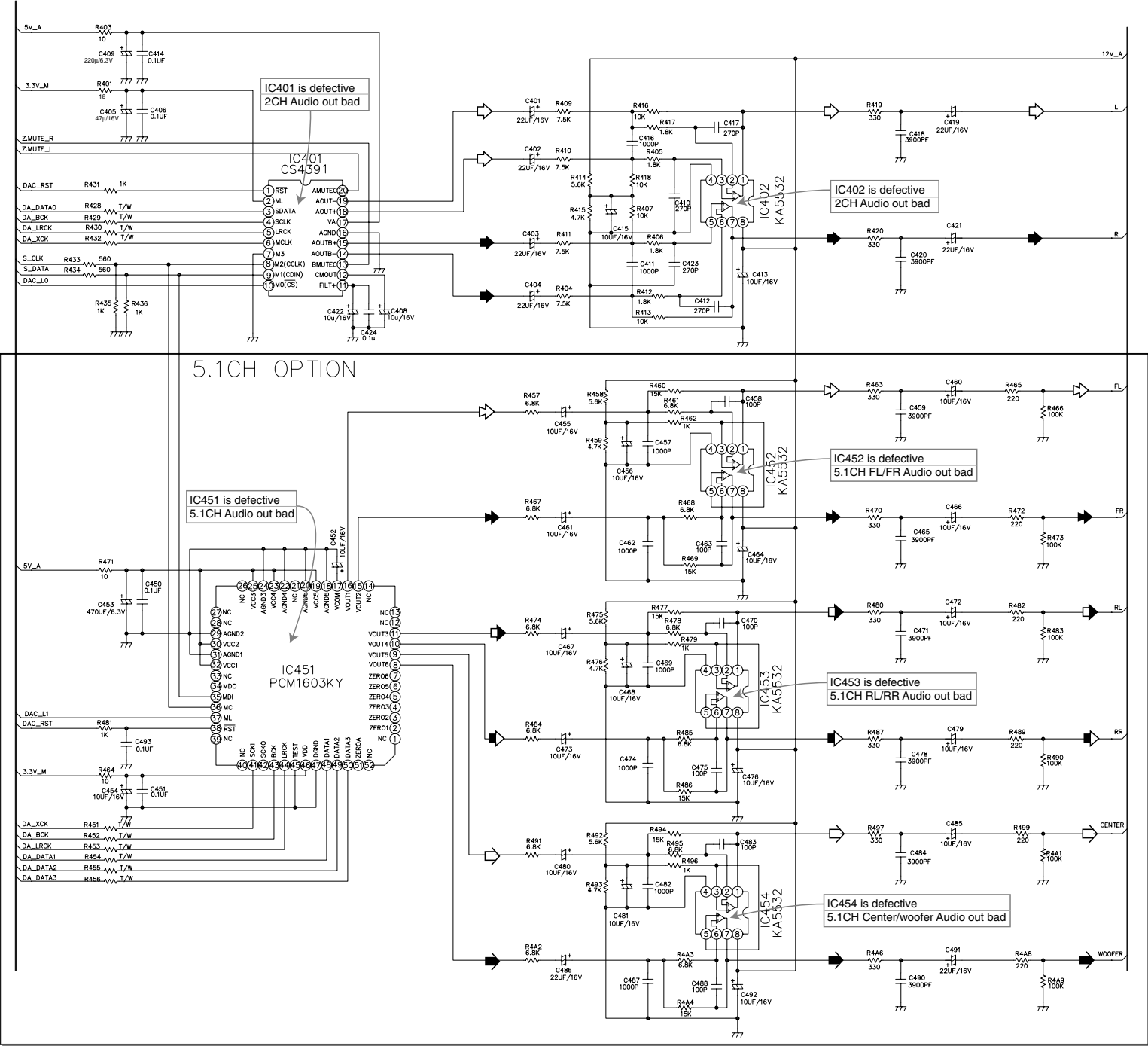


IC501 Pin 114, Luminance
(Super video out Mode)



IC501 Pin 110
Component Pr

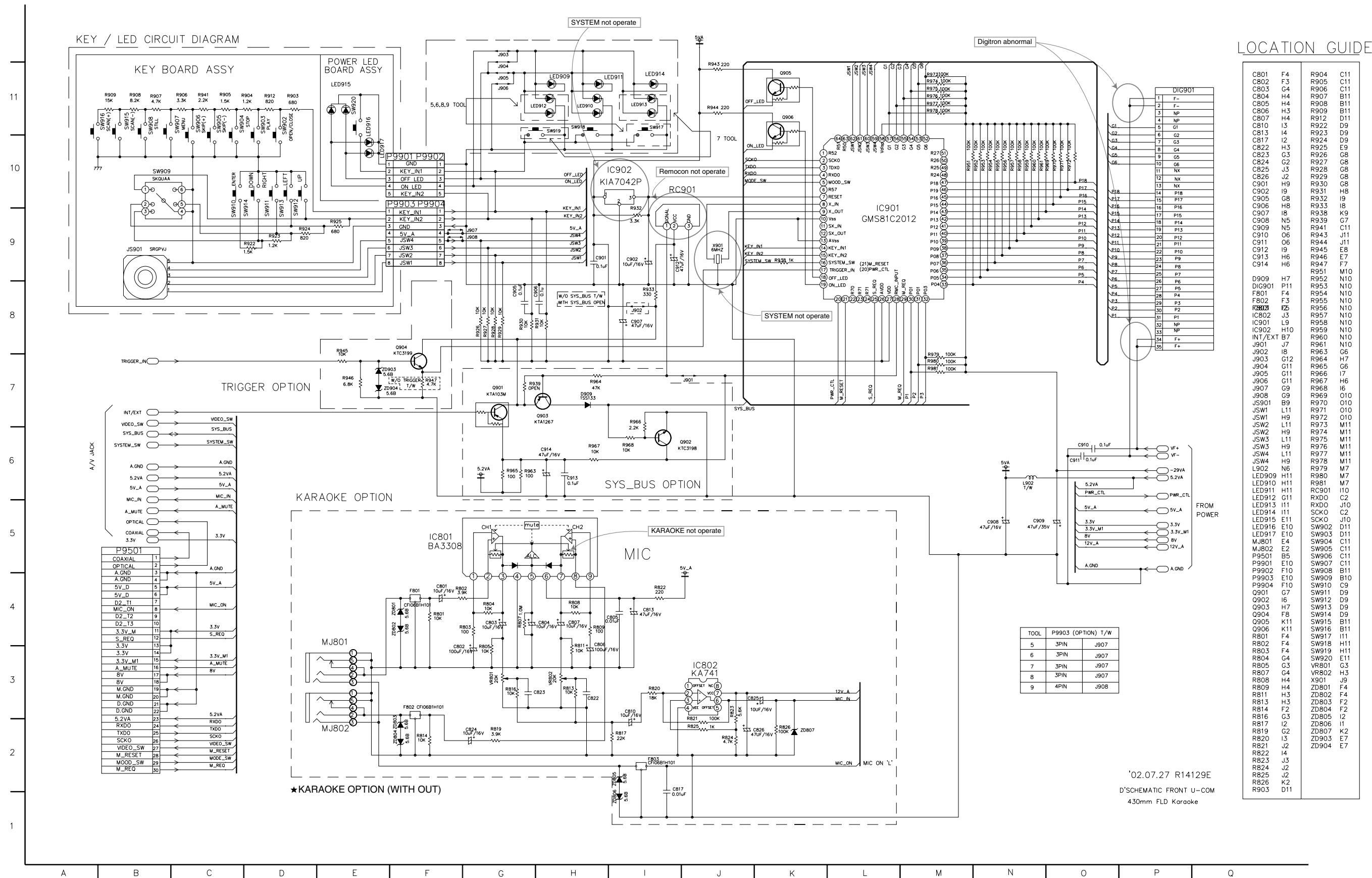
5. AUDIO CIRCUIT DIAGRAM



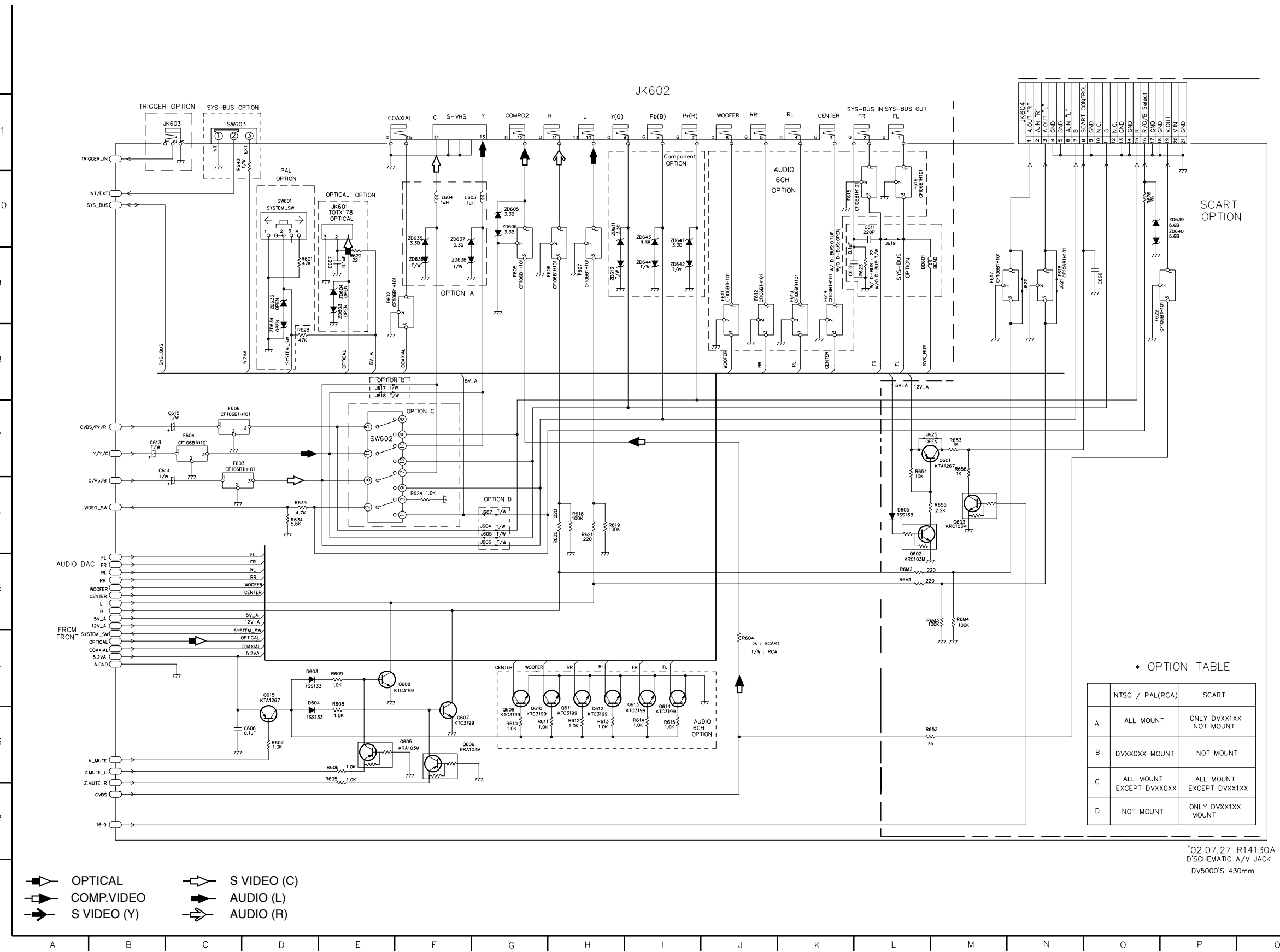
The schematic diagram illustrates the internal connections of the D5000S system. Key components include:

- IC301 XC9572VL:** A large central logic device with numerous pins connected to various control and data lines.
- IC305 HY57V652220:** A memory module connected to the system bus.
- IC3F1 3.3V 8M F/M:** A flash memory component.
- Power and Ground Connections:** Multiple 3.3V and 5V_D lines are shown, along with ground connections (GND, D.GND).
- Signal Lines:** Various control signals like /STROBE, /PP_CS, /RD, /PWE0, /P_A_MUTE, /P_RF_LAT, /D2_T1, /D2_T2, /D2_T3, /DAC_RST, /CD_E_OUT, /VIDEO_SW, /S_REQ, /XIO1, /XIO2, /XIO10, /XIO11, /XIO12, /XIO13, /XIO14, /XIO15, /XIO16, /XIO17, /XIO18, /XIO19, /XIO20, /XIO21, /XIO22, /XIO23, /XIO24, /XIO25, /XIO26, /XIO27, /XIO28, /XIO29, /XIO30, /XIO31, /XIO32, /XIO33, /XIO34, /XIO35, /XIO36, /XIO37, /XIO38, /XIO39, /XIO40, /XIO41, /XIO42, /XIO43, /XIO44, /XIO45, /XIO46, /XIO47, /XIO48, /XIO49, /XIO50, /XIO51, /XIO52, /XIO53, /XIO54, /XIO55, /XIO56, /XIO57, /XIO58, /XIO59, /XIO60, /XIO61, /XIO62, /XIO63, /XIO64, /XIO65, /XIO66, /XIO67, /XIO68, /XIO69, /XIO70, /XIO71, /XIO72, /XIO73, /XIO74, /XIO75, /XIO76, /XIO77, /XIO78, /XIO79, /XIO80, /XIO81, /XIO82, /XIO83, /XIO84, /XIO85, /XIO86, /XIO87, /XIO88, /XIO89, /XIO90, /XIO91, /XIO92, /XIO93, /XIO94, /XIO95, /XIO96, /XIO97, /XIO98, /XIO99, /XIO100, /XIO101, /XIO102, /XIO103, /XIO104, /XIO105, /XIO106, /XIO107, /XIO108, /XIO109, /XIO110, 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7. FRONT CIRCUIT DIAGRAM



8. A/V JACK CIRCUIT DIAGRAM



LOCATION GUIDE

BD601	L9	R634	D6
C606	D3	R640	C11
C607	E9	R652	L3
C611	L10	R653	M7
C612	K9	R654	L7
C613	B7	R655	M6
C614	B7	R656	M7
C615	C7	R676	O10
C666	O9	R6M1	L5
D603	D4	R6M2	L5
D604	D4	R6M3	L5
D605	L6	R6M4	M5
F602	E9	SW601	D10
F603	C7	SW602	E7
F604	C7	SW603	C11
F605	G9	ZD603	E9
F606	H9	ZD604	E9
F607	H9	ZD605	G10
F608	C7	ZD606	G10
F611	J9	ZD611	H10
F612	J9	ZD612	H9
F614	K9	ZD633	D9
F614	K9	ZD634	D8
F615	K10	ZD635	F10
F616	L10	ZD636	F9
F617	M9	ZD637	F10
F618	N9	ZD638	F9
F622	O9	ZD639	P10
J604	G6	ZD640	P10
J605	G6	ZD641	I10
J606	G6	ZD642	I9
J607	G6	ZD643	I10
J617	E8	ZD644	I9
J618	E8		
J619	L10		
J620	N9		
J621	N9		
J625	L7		
JK601	E10		
JK602	I11		
JK603	B11		
JK604	N11		
L603	F10		
L604	F10		
O601	M7		
O602	L5		
O603	M6		
O605	F3		
O606	F3		
O607	F3		
O608	F4		
O609	G3		
O610	G3		
O611	H3		
O612	H3		
O613	I4		
O614	I3		
O615	D4		
R601	D9		
R604	J4		
R605	E3		
R606	E3		
R607	D3		
R608	E4		
R609	E4		
R610	G3		
R611	G3		
R612	H3		
R613	H3		
R614	I3		
R615	I3		
R618	H6		
R619	H6		
R620	H6		
R621	H6		
R622	E9		
R623	L9		
R624	F6		
R628	D8		
R633	D6		

• CIRCUIT VOLTAGE CHART

PIN	IC203		IC201		IC301		IC3F1		IC501		IC305		IC2A1		IC2M1	
	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY
1	3.18	3.16	3.12	0	3.17	3.16	0	0	3.12	3.1	3.06	3.05	0	0	2.11	2.14
2	3.12	2.69	3.12	0	0	0	0	0	0	0.41	0.29	0.35	3.16	3.13	2.1	2.12
3	3.12	2.69	3.12	0	3.16	0	0	0	0	0.47	3.06	3.05	3.16	3.13	2.11	2.11
4	0	0	3.12	0	3.16	0	0	0	1.75	1.73	3.06	0.33	0.75	1.55	2.1	2.15
5	3.12	2.74	3.12	3.12	3.17	3.16	0	0	0	0.49	0	0	2.04	3.02	2.1	2.12
6	3.12	2.71	3.12	3.12	3.17	3.16	0	0	0	0	0	0	0	0	0	0
7	3.18	3.17	3.12	0	0	0	0	0	0	0.37	0	0.34	0	0	0	0
8	3.12	2.68	3.12	3.12	3.17	3.16	0	0	0	0.35	0.4	0	0	0.33	2.11	2.12
9	3.12	2.63	0	0	0	0	3.13	2.92	0	0.33	0	3.05	0	0	2.02	1.99
10	0	0	3.12	3.12	0	0	0	0	3.22	3.19	0.33	0	0.44	0	2.1	2.12
11	3.12	2.7	3.12	3.12	0	0	3.13	3.12	0	0	0.41	0	1.72	1.19	2.11	2.12
12	3.12	2.7	3.12	0	0	0	3.2	3.2	0	0	0	0	2.06	2.3	2.09	2.13
13	3.18	3.17	3.12	3.12	3.17	3.16	3.2	3.2	0	0	0	0.46	2.25	3.08	3.25	2.23
14	0	0	3.12	0	0	0	0	0	0	0	0	0	1.32	3.13	2.51	0
15	3.12	3.04	3.12	0	0	0	0	0	0	0.79	3.06	3.05	1.46	2.27	2.51	0
16	3.12	0	3.12	0	2.17	2.18	3.19	0	0	0.74	0	0	0	2.4	0	0
17	3.12	3.02	3.12	0	0.38	2.21	0	0	0	0	3.09	3.07	0	0	2.18	0
18	0	0	3.13	3.12	0.41	0.61	0	0	0	0.71	0	2.82	0	0	0	0
19	0	0	3.13	0	0	0	0	0	3.22	3.1	2.84	3.03	0	0	0	0
20	0	3.12	0	0	0	0	0	0	3.22	3.13	3.05	2.76	0	0	1.52	1.89
21	3.13	0	3.13	0	0	0	0	0	3.22	3.13	0	0	3.01	5.01	1.88	1.89
22	3.13	3.17	0	0	0	0	0	0	1.64	0	0	1.38	3.85	5.01	0	0
23	3.13	0	0	0	0	0	0	0	0	0	0.8	0.79	0	0	3.13	0
24	0	0	3.13	0	0	0	0	0	3.22	3.13	0	0	0	0	0	0
25	3.18	0	3.12	0	0	0	3.11	3.11	0	3.13	1.14	1.1	0	0	7.95	7.92
26	0	0	0	0	3.21	3.16	3.17	3.2	0	3.13	0.38	1.54	3.31	3.63	3.92	3.71
27	0	0	0	3.12	0	0	0	0	3.22	3.11	0	0	0	0	3.92	3.71
28	3.12	0	0	0	0	0	3.11	0	0	1.1	0	0	3.14	3.16	3.9	3.74
29	0	3.12	0	0	0	0	0.61	1.07	0	0	0	0.05	5.15	5.14	3.95	3.68
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	3.17	0	3.12	0	0	0	0.6	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	3.22	1.39	0	0	0	0	1.18	4.2
33	3.1	0	3.12	0	0	0	0.59	0	3.22	0.8	0	0	0	0	1.18	3.43
34	3.18	0	3.12	0	0	0	0	0	1.75	1.52	0.34	0	5.03	4.99	0	0
35	1.5	0	3.12	0	0	0	0.61	0	3.22	2.76	3.03	3.05	2.29	2.34	3.92	3.75
36	0	3.12	0	0	0	0	0	0	3.22	3.11	0	0.34	2.2	2.3	3.93	3.73
37	0	0	1.51	0	0	0	3.18	0	3.22	3.03	0	0	2.2	2.2	3.92	3.73
38	3.18	0	0	0	3.17	3.16	0	0	3.22	2.83	0	0	2.29	2.26	3.92	3.68
39	3.12	3.12	0	0	0	0	0	0	3.22	3.08	0.56	0	2.24	2.24	7.95	7.94
40	3.12	3.12	0	0	0	0	2.17	0	0	0	0.56	0	0	0	7.91	7.87
41	0	3.17	0	0	0	0	0	0	0	0	0	3.05	5.03	5.01	0	0
42	3.12	0	0	0	0	0	0.38	2.28	0	0	0	3.03	0.45	0	0	0
43	3.12	0	0	0	0	0	0	0	0	0.34	3.03	3.05	0	0	0	0
44	3.18	0	0	0	0	0	0.41	0.65	3.22	3.11	0	0	5.03	1.59	0	0
45	3.12	3.12	0	0	3.17	3.15	0	0	0.45	0.33	0	0.44	2.3	2.3	7.95	7.94
46	2.76	3.12	1.56	0	0	0	0	0	0	0	0	0	2.3	2.3	2.11	2.12
47	0	0	0.91	0	3.17	3.15	0	0	0	0	0.38	0	1.74	2.3	2.1	2.12
48	3.12		1.65	0	2.19	0	0	0	0	0	0	0	0	0	2.11	2.12
49	3.12		3.14	0.53	0	0			0	0	3.03	0	0	0		
50	0		0	0	0	0			0.43	0.39	0.36	3.05	2.3	2.3		
51			0.64	0	3.17	0			0.42	0.45	0	0.34	2.3	2.3		
52			0.43	0	3.17	3.19			0.43	0.35	0	0	2.3	2.3		
53			0	0	3.11	2.91			3.12	3.11	0	0	2.3	2.3		
54			2.58	0	0	0			0	0	0.41	0	2.3	2.3		
55			0	0	0	0			0	0.33	3.03	3.05	2.3	2.3		
56			3.11	0	0	0			0.39	0.36	0	0.34	2.3	2.3		
57			0	0	3.17	3.19			0	0	0	0	2.3	2.3		
58			1.65	0	0	0			0	0	0	0	2.3	2.3		
59			1.79	0	0	0			0	0.42	0	0	2.29	2.3		
60			0	0	0	0			0.44	0.4	0	0.79	2.29	2.3		
61			3.13	0	0	0			0.44	0.47	0	0.79	0.36	0.56		
62			0	0	0	0			3.12	3.11	0	2.26	0.37	0.62		
63			3.13	0	0	0			0.45	0.35	0	0.74	5.03	5.02		
64			0	0	0	0			0	0	0	0.78	0	0		
65			0	0	0	0			0	0	0	0				
66			3.12	0	0	0			0	0	0	0				
67			0	0	0	0			0	0.31	3.11	3.1				
68			3.13	3.12	3.11	3.1			1.51	0	1.6	1.59				
69			4.08	0	0	0			0	1.5	0	0				
70			3.13	0	0	3.16			1.47	0	0	0				
71			0	0	3.11	3.1			0	0	0	0				
72			3.13	3.13	0	0			0	0	0	0				
73			0	0	0	0			0	0	0	0				
74			0	0	3.11	3.1			0	0	0	0.45				
75			0.78	0	0	0			3.12	3.11	3.04	3.05				
76			1.41	0	0	0			1.48	1.26	0	0				
77			0.77	0	0	0			1.74	1.74	0	0				
78			0.77	0	0	0			1.54	1.54	0	0				
79			2.1	2.11	3.17	0			1.56	1.55	0	0				
80			2.12	2.11	0	0			3.11	3.1	0	0.34				
81			3.18	0	3.17	0			3.01	3.01	1.69	0				

IC203			IC201		IC301		IC3F1		IC501		IC305		IC2A1		IC2M1	
PIN	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY
82			3.18	0	3.17	3.19			0	0	0	0				
83			1.93	1.93	2.12	2.27			0	0.33	0	0				
84			2.11	2.11	0	0			1.74	5.12	0	0				
85			0	0	4.41	4.41			0	0	0	0.33				
86			0	0	0	0			0	0	0	0				
87			1.93	0	0	0			1.42	3.11						
88			2.1	0	3.17	3.19			1.87	3.11						
89			1.93	1.92	2.66	0			1.67	1.74						
90			1.59	0	0	3.17			0	0						
91			0.8	0	3.19	0			3.11	3.11						
92			2.36	2.36	3.19	3.19			0	3.11						
93			2.24	1.6	3.19	3.19			3.11	3.11						
94			1.58	1.56	0	0			0	0.34						
95			1.64	1.62	3.13	3.13			0	0.34						
96			1.58	1.62	0	0			2.82	3.11						
97			1.58	1.56	3.19	3.19			0	0						
98			0	0	3.19	3.19			0.85	0.92						
99			0	0	0.36	0.36			0.89	0.93						
100			1.58	0	0	0			0	0						
101			3.18	0					1.79	1.74						
102			3.18	0					3.23	3.1						
103			2.01	2.01					0	0						
104			2.01	2.01					0	0						
105			0	0					0	0						
106			3.12	0					0	0						
107			2.07	3.12					3.23	3.09						
108			0.41	0					1.74	1.74						
109			0	0					0	0						
110			2.15	0					1.75	1.3						
111			0	0					0.34	0.74						
112			0	0					0	1.39						
113			0	0					3.2	3.1						
114			0	0					0.49	0.64						
115			0	0					0	0						
116			0	0					1.17	1.29						
117			0	0					1.79	1.74						
118			0	0					0	0.74						
119			0	0					1.17	1.28						
120			3.12	0					2.04	1.82						
121			0	0					0	0						
122			3.12	3.12					0	0						
123			3.12	3.12					0	0.36						
124			0	0					0	0.36						
125			3.12	3.12					3.16	3.1						
126			3.12	0					0	0.36						
127			2.42	0					0	0						
128			0	0					0	0						
129			2.41	0					0	0						
130			3.18	3.17					0	0						
131			3.12	3.12					0	0						
132			3.12	0					0	0						
133			0	0					3.13	0						
134			3.12	3.12					0	0						
135			3.12	3.12					1.74	1.74						
136			2.45	2.33					0	0						
137			1.68	1.65					0	0						
138			1.77	1.87					0	0						
139			2.45	2.33					0	0						
140			2.61	0.32					3.13	3.1						
141			2.54	0					0	0						
142			3.12	0					0	0						
143			0	0					0	0						
144			0	0					0	0						
145			0	0					3.13	3.09						
146			2.54	0					0	0						
147			2.54	0					0	0						
148			2.54	0					0	0						
149			2.54	0					0	0						
150			4.76	0					0	0						
151			4.13	0					0	0						
152			0	0					0	0						
153			0	0					0	0						
154			0	0					3.13	3.1						
155			3.12	0					0	0						
156			3.12	0					3.13	3.09						
157			3.12	0					0	0						
158			0	0					0	1.73						
159			0	0					1.74	1.73						
160			0	0					1.12	1.83						
161			2.64	2.62					3.13	0						
162			3.18	3.16					0	0						

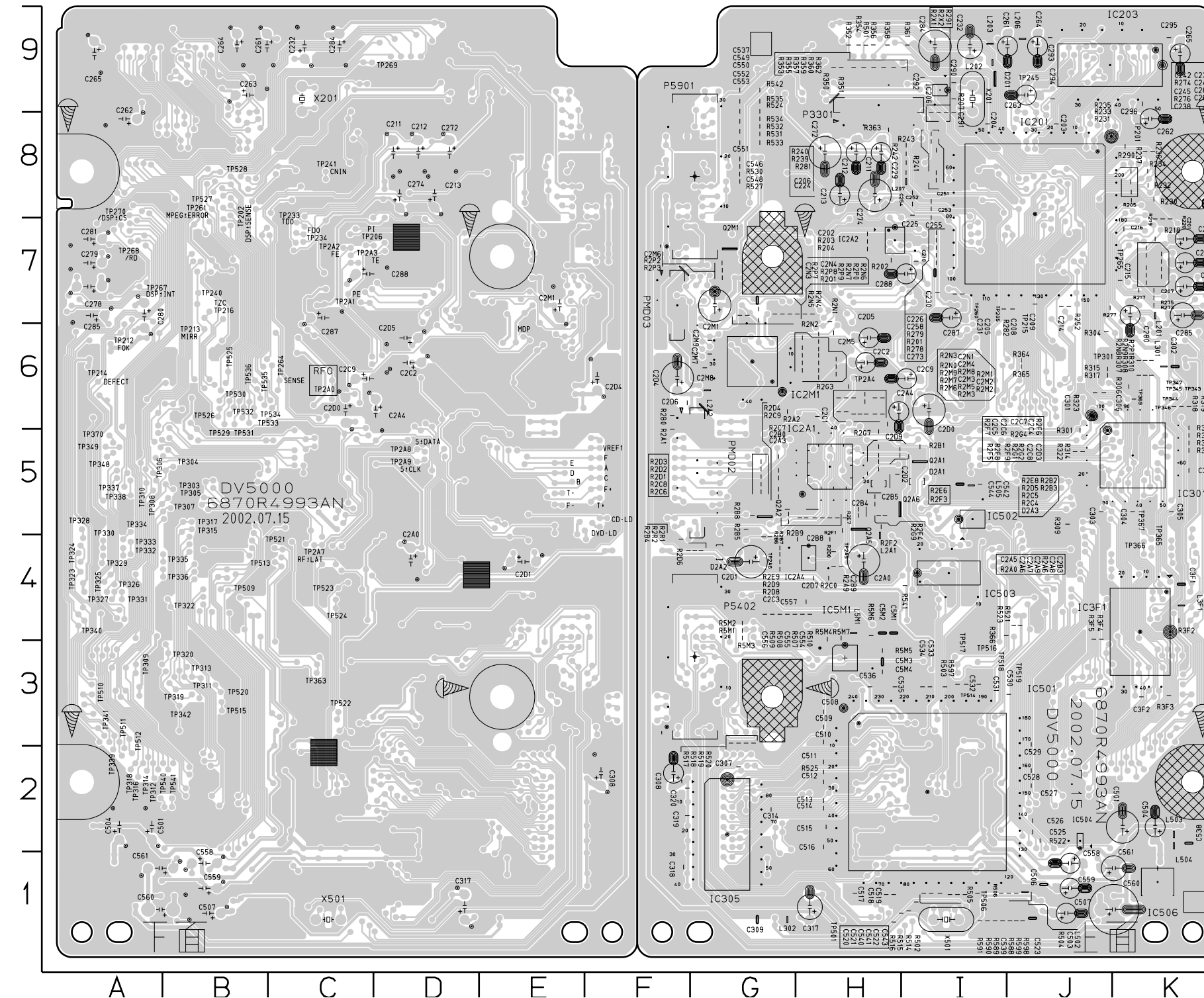
	IC901		IC451		IC401		IC454		IC453		IC452		IC402		IC801	
PIN	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY
1	0	0	0	0	2.98	2.98	5.51	5.51	5.41	5.42	5.49	0	5.47	5.47	1.83	1.81
2	5.1	5.05	3.15	3.15	3.26	3.26	5.51	5.51	5.41	5.42	5.49	5.51	5.47	5.47	0	0
3	0	0	3.15	3.15	0	0	5.51	5.51	5.41	5.41	5.49	5.51	5.47	5.47	1.83	1.81
4	5.14	5.14	3.15	3.14	1.57	0	0	0	0	0	0	0	0	0	0	0
5	0.48	0	3.15	3.15	1.58	1.58	5.51	5.51	5.41	5.41	5.49	5.51	5.47	5.47	0	0
6	0.48	0	3.15	3.15	1.3	0	5.51	5.51	5.41	5.42	5.49	5.51	5.47	5.47	4.59	4.57
7	5.17	5.17	3.15	3.15	0	0	5.51	5.51	5.41	5.41	5.49	0	5.47	5.47	1.84	1.82
8	2.22	2.21	2.43	2.42	3.24	3.24	11.95	11.95	11.95	11.95	11.95	11.95	11.95	11.95	0	0
9	2.35	2.35	2.48	2.46	0	0									1.84	1.82
10	0	0	2.43	2.42	3.2	3.19										
11	2.26	2.24	2.48	0	4.85	4.84										
12	2.46	2.45	0	0	2.31	0										
13	0	0	0	0	2.35	0										
14	5.17	5.16	0	0	2.35	0										
15	5.17	5.16	2.43	2.43	0	0										
16	5.1	5.06	2.47	3.14	0	0										
17	0	0	2.45	0	4.91	0										
18	0	0	0	0	2.34	2.34										
19	5.16	5.16	4.91	4.88	2.34	2.33										
20	5.14	5.14	0	0	0	0										
21	5.01	5.02	0	0												
22	0	0	0	0												
23	0	0	4.91	0												
24	0	0	0	0												
25	2.68	2.68	4.9	4.88												
26	5.17	5.17	0	0												
27	5.17	5.17	0	0												
28	4.77	4.87	0	0												
29	5.07	5.06	0	0												
30	21.58	18	4.91	4.88												
31	23.58	18	0	0												
32	23.6	23	4.91	4.88												
33	27.54	21.21	0	0												
34	23.6	17.18	0.36	0												
35	23.6	22.91	0	0												
36	21.6	19.14	3.24	3.23												
37	21.61	25.01	3.19	3.19												
38	23.65	23.06	2.93	3.92												
39	23.65	23.09	0	0												
40	23.57	23.08	0	0												
41	25.6	23.07	1.3	1.31												
42	25.6	25.03	1.48	1.47												
43	25.6	25.03	1.57	0												
44	25.6	23.07	1.58	1.58												
45	27.6	25.07	0	0												
46	27.6	21.16	3.15	3.15												
47	27.5	25.11	0	0												
48	27.5	24.76	0	0												
49	27.5	27.86	0	0												
50	27.5	26.88	0	0												
51	6.73	6.69	3.15	3.14												
52	25.7	25.13	0	0												
53	25.6	25.08														
54	25.6	25.16														
55	25.6	25.15														
56	25.6	25.08														
57	25.6	25.13														
58	27.7	27.08														
59	5.16	5.15														
60	5.16	5.16														
61	5.16	5.16														
62	5.16	5.16														
63	0	0														
64	0	0														

	IC503		IC502		IC2A4		IC2A2		IC206		IC504		IC506	
PIN	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY
1	0	0	0	0	4.87	4.39	1.57	1.56	2.63	2.64	2.11	2.19	(IN)0	0
2	3.1	3.1	5.03	5.03	2.3	2.31	1.57	1.56	2.74	0	5.05	5.05	(OUT)1.80	0
3	5.03	5.03	0	0	2.29	2.29	1.57	0	2.74	2.76	2.37	2.44		
4	0	0	5.1	5.1	0	0	0	0	0	0	0	0		
5	0	0	0	0	2.29	2.29	1.62	1.62	1.92	1.88				
6	0	0	5.04	5.04	2.3	2.31	1.62	1.62	2.28	0				
7	5.05	5.05	0	0	2.51	2.45	1.62	1.62	2.28	0				
8	0	3.15	5.03	5.04	5.02	5.02	5.04	4.99	5.04	0				
9	0	0												
10	0	0												
11	0	0.46												
12	0	0.15												
13	3.11	3.1												
14	0	0												
15	0	0												
16	0	0												
17	3.09	3.09												
18	5.15	5.14												
19	0	0												
20	5.15	5.15												

	Q2M1		Q2A1		Q2A6		Q2A5		Q2A2	
	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY
E	0	0	5.02	0	0	2.41	2.34	2.35	5.02	4.95
B	0	0	0	0	3.62	3.72	3.82	0	0	0
C	0	3.14	0	0	0	3.1	0	0	5.01	4.94

	Q610		Q611		Q609		Q613		Q614		Q612	
PIN	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY
Emitter	0	0	0	0	0	0	0	0	0	0	0	0
Collector	0	0	0	0	0	0	0	0	0	0	0	0
Base	0.77	0.78	0.77	0.77	0.76	0.77	0.76	0.77	0.77	0.77	0.76	0.79

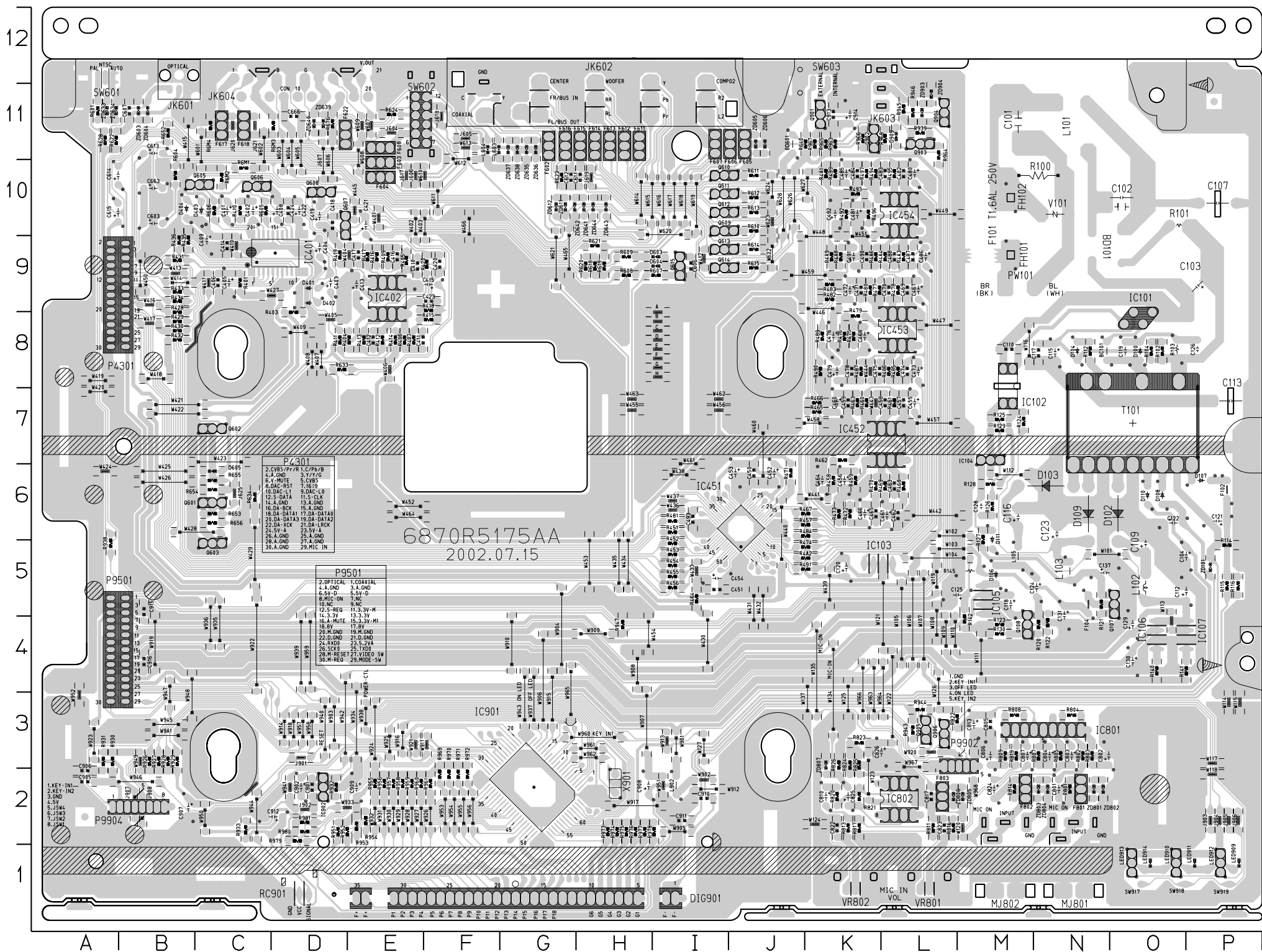
1. MAIN P.C.BOARD



LOCATION GUIDE

T2202	B8	T2327	A4	C21	K7	C296	K9	C319	F7	C560	K1	R217	K7	R208	G4	R309	J5	R532	G8
T2206	C7	T2328	A5	C202	H7	C240	H4	C320	F2	C561	K1	R218	K7	R209	G4	R310	J6	R533	G8
T2112	A6	T2329	A4	C203	J8	C243	G5	C3F1	K4	C5M1	H4	R219	K7	R2E6	H5	R314	J5	R534	G8
T2123	B6	T2330	A4	C204	L8	C244	H6	C3F2	K3	C5M2	H4	R220	K7	R2E7	H5	R315	J6	R535	G9
T2124	A6	T2331	A4	C205	I7	C245	G5	C503	K2	C5M3	H3	R230	K8	R2E8	H5	R317	J6	R541	I4
T216	B7	T2332	A4	C206	L8	C246	H5	C501	J1	C5M4	H3	R231	K8	R2E9	G4	R318	J6	R542	G9
T217	C3	T2333	A3	C207	J7	C247	H5	C504	K2	C5M5	H3	R232	K8	R2F1	H5	R319	J5	R543	G9
T2324	C7	T2334	A5	C208	J7	C248	H5	C506	J1	D2A1	I5	R233	K8	R2F2	H5	R320	J6	R589	I1
T2420	B7	T2335	B4	C209	J7	C249	H5	C507	J1	D2A2	G4	R234	K8	R2F3	H5	R321	J5	R590	I1
T2421	C8	T2336	B4	C210	I7	C280	G5	C508	H3	D2A3	H5	R235	K8	R2F4	H5	R322	J5	R591	I1
T261	B8	T2337	A5	C211	H8	C283	H5	C509	H3	I2C01	H8	R236	K8	R2F5	H5	R323	J6	R597	I3
T264	C6	T2338	A5	C212	H8	C284	H5	C510	H3	I2C02	H8	R237	K8	R2F6	H5	R324	J6	R598	I3
T267	A7	T2339	A2	C213	H7	C285	H5	C511	H2	I2C06	I9	R239	K7	R2F7	H5	R325	J6	R599	I1
T268	A7	T2340	A4	C214	J7	C288	H4	C512	H2	I2CA1	H5	R240	I8	R2F8	H5	R352	J9	R631	G4
T269	C9	T2341	A3	C215	K7	C289	H4	C513	H2	I2CA2	H7	R241	I8	R2F9	H5	R353	J9	R632	G4
T270	A7	T2342	B3	C216	K7	C2C1	H6	C514	H2	I2CA4	H4	R242	I8	R2G1	H5	R354	J9	R633	G4
T240	C6	T2348	A5	C224	L8	C2C2	H6	C515	H2	I2CM1	G6	R243	I8	R2G2	H5	R355	J9	R634	H4
T241	C7	T2349	A5	C225	L8	C2C3	H6	C516	H1	I2CM2	G6	R244	I8	R2G3	H5	R356	J9	R635	H3
T242	C7	T2363	C3	C226	I7	C2C4	H6	C517	H1	I3C05	G2	R273	K7	R2G4	H5	R357	J9	R636	H4
T243	C7	T2370	A5	C229	I8	C2C5	H6	C518	H1	I3CF1	K4	R274	K7	R2G7	H5	R358	J9	R637	H4
T247	C4	T2509	B4	C230	I7	C2C6	H6	C519	H1	I3C01	I2	R275	K7	R2G9	H5	R359	J9	R638	H4
T248	D5	T2510	A3	C231	I7	C2C7	H6	C520	I1	I3C02	I5	R276	K7	R2M1	H5	R360	J9	R639	H4
T249	D5	T2511	A2	C232	I7	C2C8	H6	C521	I1	I3C03	I4	R277	K7	R2M2	H5	R361	J9	R640	H4
T250	B3	T2512	C2	C233	I7	C2C9	H6	C522	I1	I3C04	I2	R278	K7	R2M3	H5	R362	J9	R641	H4
T253	B5	T2513	C2	C234	I7	C2D0	I6	C523	J1	I3C06	K1	R279	I7	R2M5	H5	R363	H8	R642	I7
T254	B5	T2514	C2	C235	I7	C2D1	G4	C525	J2	I3C07	K1	R280	I7	R2M6	H5	R364	J6	R643	I7
T255	B5	T2515	C2	C236	I7	C2D2	H5	C526	J2	I3C08	K1	R281	I7	R2M7	H5	R365	J6	R644	I7
T256	B5	T2521	C4	C245	K7	C2D3	H6	C527	J2	I3C09	K1	R282	I7	R2M8	H5	R366	J4	R645	H4
T257	B5	T2522	C4	C246	K7	C2D4	H6	C528	J2	I3C10	K1	R283	I7	R2M9	H5	R367	J4	R646	H4
T259	A3	T2523	C4	C252	L8	C2D5	H6	C529	J3	L2D6	J9	R240	G5	R2N0	H5	R3F2	K4	T2P70	I8
T2301	A5	T2524	C4	C253	L8	C2D6	F6	C530	J3	L207	I8	R241	F5	R2N1	H7	R3F3	K3	T2P71	I9
T311	B3	T2525	B6	C254	L8	C2D7	H4	C531	J3	L2A1	H4	R242	G6	R2N2	H6	R3F4	J4	T2P72	I9
T312	A2	T2526	B6	C255	I7	C2D9	H6	C532	J3	L2A2	G6	R246	H5	R2N3	H6	R3F5	J4	T2P73	I9
T313	B3	T2527	B8	C258	I7	C2M1	G7	C533	J3	L301	K6	R249	H5	R2N4	H7	R3F6	K1	T2P74	I9
T314	A2	T2528	B6	C259	I7	C2M2	G6	C534	K2	L2A3	F6	R248	F6	R2N5	H7	R502	I7	T3P43	K6
T3515	B5	T2529	B6	C261	J9	C2M3	H6	C535	H3	L3F1	K4	R281	I5	R2N6	H7	R503	I3	T3P44	K6
T316	A2	T2530	B6	C262	K8	C2M4	H6	C536	H3	L502	J1	R282	H5	R2N7	G7	R504	J1	T3P45	K6
T317	B5	T2531	B6	C263	J9	C2M5	H6	C537	G9	L503	K2	R283	H5	R2N8	K6	R505	I1	T3P46	K6
T318	A2	T2532	B6	C264	J9	C2M6	G7	C538	K2	L504	K2	R284	F4	R2N9	K6	R506	I1	T3P47	K6
T319	B3	T2533	B6	C265	J9	C2M7	G6	C539	K2	L505	K2	R285	F4	R2P0	K6	R507	I1	T3P48	K6
T320	B3	T2534	B6	C272	H8	C2M8	G6	C540	I1	L5M1	H4	R286	G4	R2P1	K6	R508	G4	T3P66	K4
T322	B4	T2535	B6	C273	I7	C2M9	G6	C541	I1	P3301	H9	R287	G4	R2P2	G7	R509	G4	T3P67	K5
T323	A4	T2536	B6	C274	H8	C2M10	G6	C542	I5	P5402	G3	R288	G5	R2P3	G7	R510	H4	T3P69	K6
T324	A4	T2537	B6	C278	K7	C2M3	G7	C543	I1	P5901	H8	R289	H4	R2P4	G7	R514	I1	T3P61	I1
T325	A4	T2541	B2	C277	K7	C2M4	G7	C544	I5	P5902	H8	R290	H4	R2P5	G7	R515	I1	T3P62	I1
T326	A4			C280	K7	C301	J6	C546	H6	PM002	F7	R285	H5	R2P7	G7	R516	H1	T3P5	I3
				C281	K7	C302	K6	C548	H6	PM003	F7	R285	H5	R2P7	G7	R517	G3	T3P16	I3
				C284	I9	C303	J5	C549	G9	Q201	I5	R2C5	H5	R201	G4	R518	G3	T3P17	I3
				C285	K7	C304	K5	C550	G9	Q2A2	G5	R2C7	G5	R2R2	G4	R519	G3	T3P18	I3
				C286	K7	C305	K5	C551	G8	Q2A5	H6	R2C8	G5	R2X1	I8	R520	G3	T3P19	J3
				C287	G6	C306	K5	C552	G8	Q2B1	F7	R2C9	G5	R2X2	G2	R521	G3	T3P20	J3
				C288	I7	C307	G2	C553	G8	Q2M1	G7	R2D0	H4	R301	J5	R522	J2	X501	I1
				C290	I9	C308	F2	C554	H4	R201	I7	R2D1	G5	R302	K5	R523	J4		
				C291	I8	C309	G1	C555	G4	R202	H7	R2D2	G5	R303	K5	R524	G9		
				C292	I9	C314	G2	C556	G4	R203	H7	R2D3	G5	R304	J6	R525	H2		
				C293	J1	C316	K5	C557	H4	R204	H7	R2D4	G5	R306	K6	R527	G8		
				C294	J1	C317	K5	C558	H4	R205	H7	R2D5	G5	R307	K6	R528	H8		
				C295	K9	C318	F1	C559	J1	R207	I9	R2D6	F4	R308	K6	R531	G8		

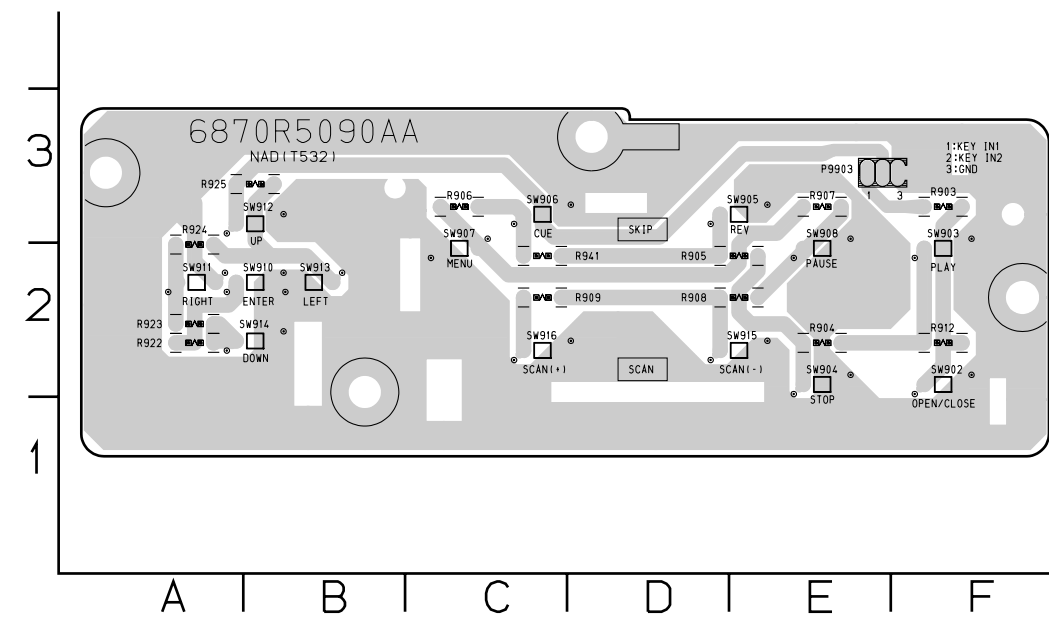
2. POWER, A/V, FRONT P.C.BOARD



LOCATION GUIDE

BC101	N8	C470	L9	D402	D9	L604	F11	R414	E8	R605	C10	R955	E2
BD101	N9	C471	K9	D403	C10	L902	I2	R415	F8	R606	C10	R956	E2
BD601	J11	C472	K9	D404	B10	LED909	P1	R416	E9	R607	I9	R957	E2
C101	M11	C473	L8	D603	I9	LED910	O1	R417	E9	R608	H9	R958	E2
C102	O10	C474	L8	D604	I9	LED911	O1	R418	F9	R609	H9	R959	E2
C103	P9	C475	K8	D605	C5	LED912	P1	R419	F9	R610	J10	R960	E2
C104	P5	C476	K8	D909	L11	LED913	O1	R420	F9	R611	J10	R961	F2
C107	P10	C478	K8	D16901	I1	LED914	O1	R428	B8	R612	J10	R963	K11
C109	O5	C479	K8	F102	P6	MJ801	N1	R429	B8	R613	J10	R964	L11
C110	M8	C480	L10	F104	N5	MJ802	M1	R430	B8	R614	J9	R965	K11
C112	P5	C481	K10	F602	G11	P4301	A9	R431	B9	R615	J9	R966	K11
C113	P7	C482	L10	F603	E10	P9501	A4	R432	B8	R618	H9	R967	K11
C115	N8	C483	L10	F604	E10	P9902	L3	R433	B9	R619	H9	R968	L11
C116	M6	C484	K10	F605	J11	P9904	A2	R434	B9	R620	H9	R969	F2
C117	N8	C485	K10	F606	J11	PW101	M9	R435	B9	R621	H9	R970	F2
C118	M5	C486	L9	F607	I11	Q107	O5	R436	B9	R622	A11	R971	F2
C119	O8	C487	L9	F608	E11	Q108	M4	R451	I6	R623	G10	R972	F2
C120	K5	C488	L9	F611	H11	Q601	C6	R452	I5	R624	E11	R973	H2
C121	P6	C490	K9	F612	H11	Q602	C7	R453	I5	R628	A11	R974	H2
C122	O6	C491	K9	F613	H11	Q603	C5	R454	I5	R633	O8	R975	H2
C123	N6	C492	K10	F614	H11	Q605	C10	R455	I5	R634	O8	R976	H2
C124	N5	C493	I6	F615	H11	Q606	C10	R456	I5	R640	K11	R977	H2
C125	M5	C603	B10	F616	G11	Q607	D10	R457	K6	R652	B11	R978	I2
C126	P8	C606	I9	F617	C11	Q608	D10	R458	K6	R653	C6	R979	D2
C128	M6	C607	B11	F618	C11	Q609	I10	R459	K6	R654	C6	R980	D2
C129	O4	C611	H10	F622	D11	Q610	I10	R460	K7	R655	C6	R981	D2
C130	O4	C612	G10	F621	N2	Q611	I10	R461	L7	R656	C6	R982	D2
C131	N5	C613	B11	F622	D11	Q612	I10	R462	K7	R657	D11	R983	A12
C137	N5	C614	A10	F803	L2	Q613	I9	R463	K7	R661	C10	R984	E11
C401	C10	C615	A10	FH101	M9	Q614	I9	R464	I5	R662	C10	R985	K12
C402	C10	C663	B10	FH102	M10	Q615	I9	R465	K7	R663	D11	R986	O1
C403	D9	C666	D11	IC101	O8	Q901	K11	R466	K7	R664	C11	R987	O1
C404	D9	C801	N2	IC102	M7	Q902	K11	R467	K6	R665	N2	R988	P1
C405	C9	C802	N3	IC103	L5	Q903	L11	R468	L6	R666	N2	R989	O1
C406	C9	C803	N3	IC104	L5	Q904	L11	R469	L6	R667	N2	R990	O1
C408	D10	C804	N3	IC105	M5	Q905	L3	R470	K6	R668	N3	R991	O1
C409	C9	C805	M3	IC106	O4	Q906	L3	R471	J6	R669	N3	R992	K1
C410	E9	C806	M3	IC107	P4	R100	N10	R472	K6	R670	N3	R993	H2
C411	E8	C807	M3	IC402	E9	R101	O10	R473	K6	R671	N3	R994	P5
C412	E8	C810	K2	IC452	K7	R102	O8	R474	K5	R672	N3	R995	B11
C413	E9	C813	M3	IC453	L8	R103	O8	R475	K8	R673	L2	R996	B11
C414	C9	C817	L2	IC454	L10	R104	O8	R476	K8	R674	K2	R997	J11
C415	F9	C822	K2	IC801	N3	R112	N8	R477	K9	R675	M2	R998	O1
C416	E9	C823	L2	IC802	L2	R114	P5	R478	L9	R676	L2	R999	G10
C417	E9	C824	M2	IC802	D2	R115	P5	R479	K8	R677	K2	R1000	G10
C418	D10	C825	K2	J604	E11	R116	P5	R480	K9	R678	M3	R1001	A11
C419	D10	C826	L3	J605	F11	R120	N4	R481	I6	R679	K2	R1002	A11
C420	F9	C901	D2	J606	E10	R121	N5	R482	K9	R680	K2	R1003	G11
C421	E10	C902	D2	J607	D10	R122	N4	R483	K9	R681	K2	R1004	G11
C422	D10	C905	A2	J617	E10	R123	M4	R484	K6	R682	K3	R1005	G11
C423	F9	C906	A2	J618	F11	R124	M7	R485	L8	R683	K3	R1006	G11
C424	D10	C907	B2	J619	H10	R125	M7	R486	L8	R684	K3	R1007	D11
C450	J6	C908	H2	J620	C11	R126	M6	R487	K8	R685	K3	R1008	H10
C451	I5	C909	E2	J621	C11	R127	M6	R488	K8	R686	K3	R1009	H10
C452	J6	C910	I2	J625	C6	R128	M6	R489	K8	R687	K3	R1010	H10
C453	J6	C911	I2	J901	D3	R129	M7	R490	K8	R688	K3	R1011	H10
C454	I5	C912	D2	J902	D2	R130	M4	R491	K8	R689	K3	R1012	H10
C455	L7	C913	K11	J903	P2	R140	O4	R492	K10	R690	K3	R1013	H10
C456	K6	C914	K11	J904	P2	R141	P4	R493	K10	R691	K3	R1014	H10
C457	L7	C915	B5	J905	P2	R142	M4	R494	K10	R692	K3	R1015	H10
C458	L7	C916	B4	J906	P2	R145	M5	R495	K10	R693	K3	R1016	H10
C459	K7	D100	O8	J907	B2	R401	C9	R497	K10	R694	K3	R1017	H10
C460	K7	D102	O6	J908	B2	R403	D8	R499	K10	R695	K3	R1018	H10
C461	L6	D103	N6	JK601	B11	R404	E8	R4A1	K10	R696	K3	R1019	H10
C462	L6	D104	N6	JK602	H12	R405	E9	R4A2	K5	R697	K3	R1020	H10
C463	L6	D106	M5	JK603	L11	R406	E8	R4A3	L9	R698	K3	R1021	H10
C464	K6	D107	P6	JK604	D12	R407	E8	R4A4	L9	R699	K3	R1022	H10
C465	K6	D108	O6	L101	N11	R409	E9	R4A6	K9	R700	K3	R1023	H10
C466	K6	D109	N6	L102	O5	R410	C10	R4A8	K9	R701	K3	R1024	H10
C467	L9	D110	O6	L103	N5	R411	D8	R4A9	K9	R702	K3	R1025	H10
C468	K8	D111	M6	L105	M5	R412	E8	R601	A11	R703	K3	R1026	H10
C469	L9	D401	D9	L603	F11	R413	E8	R604	B10	R704	K3	R1027	H10

3. KEY P.C.BOARD



LOCATION GUIDE

P9903	E3
R903	F3
R904	E2
R905	E2
R906	C3
R907	E3
R908	E2
R909	C2
R912	F2
R922	A2
R923	A2
R924	A2
R925	B3
R941	C2
SW902	F2
SW903	F2
SW904	E2
SW905	E3
SW906	C3
SW907	C2
SW908	E2
SW910	B2
SW911	A2
SW912	B3
SW913	B2
SW914	B2
SW915	E2
SW916	C2