LG Electronics Inc.

SERVICE MANUAL MODEL: DKS-5500/DKS-5600

LG

DVD KARAOKE SYSTEM

SERVICE MANUAL

MODEL: DKS-5500/DKS-5600

2005

LG Electronics Inc.

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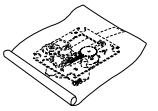
SECTION 1. GENERAL

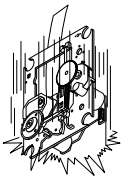
❑ SERVICING PRECAUTIONS

NOTES REGARDING HANDLING OF THE PICK-UP

1. Notes for transport and storage

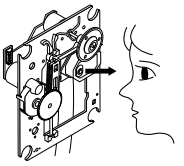
1) The pick-up should always be left in its conductive bag until immediately prior to use.
2) The pick-up should never be subjected to external pressure or impact.

Storage in conductive bag 

 Drop impact

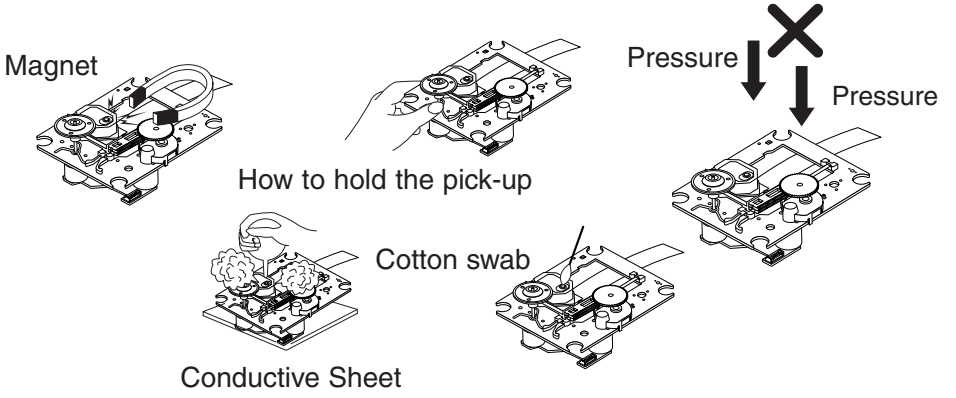
2. Repair notes

1) The pick-up incorporates a strong magnet, and so should never be brought close to magnetic materials.
2) The pick-up should always be handled correctly and carefully, taking care to avoid external pressure and impact. If it is subjected to strong pressure or impact, the result may be an operational malfunction and/or damage to the printed-circuit board.
3) Each and every pick-up is already individually adjusted to a high degree of precision, and for that reason the adjustment point and installation screws should absolutely never be touched.
4) Laser beams may damage the eyes!
   Absolutely never permit laser beams to enter the eyes!
   Also NEVER switch ON the power to the laser output part (lens, etc.) of the pick-up if it is damaged.



NEVER look directly at the laser beam, and don't let contact fingers or other exposed skin.

5) Cleaning the lens surface
   If there is dust on the lens surface, the dust should be cleaned away by using an air bush (such as used for camera lens). The lens is held by a delicate spring. When cleaning the lens surface, therefore, a cotton swab should be used, taking care not to distort this.



6) Never attempt to disassemble the pick-up.
   Spring by excess pressure. If the lens is extremely dirty, apply isopropyl alcohol to the cotton swab. (Do not use any other liquid cleaners, because they will damage the lens.) Take care not to use too much of this alcohol on the swab, and do not allow the alcohol to get inside the pick-up.

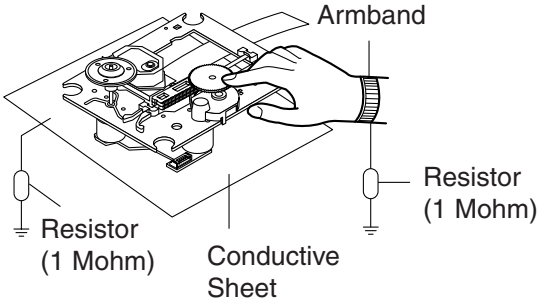
NOTES REGARDING COMPACT DISC PLAYER REPAIRS

1. Preparations

1) Compact disc players incorporate a great many ICs as well as the pick-up (laser diode). These components are sensitive to, and easily affected by, static electricity. If such static electricity is high voltage, components can be damaged, and for that reason components should be handled with care.
2) The pick-up is composed of many optical components and other high-precision components. Care must be taken, therefore, to avoid repair or storage where the temperature of humidity is high, where strong magnetism is present, or where there is excessive dust.

2. Notes for repair

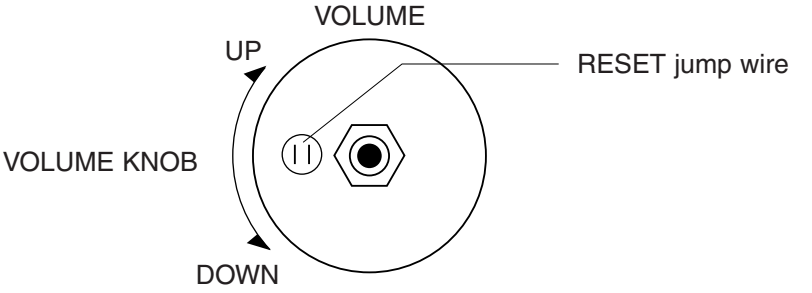
1) Before replacing a component part, first disconnect the power supply lead wire from the unit
2) All equipment, measuring instruments and tools must be grounded.
3) The workbench should be covered with a conductive sheet and grounded.
   When removing the laser pick-up from its conductive bag, do not place the pick-up on the bag. (This is because there is the possibility of damage by static electricity.)
4) To prevent AC leakage, the metal part of the soldering iron should be grounded.
5) Workers should be grounded by an armband (1M Ω)
6) Care should be taken not to permit the laser pick-up to come in contact with clothing, in order to prevent static electricity changes in the clothing to escape from the armband.
7) The laser beam from the pick-up should NEVER be directly facing the eyes or bare skin.



CLEARING MALFUNCTION

You can reset your unit to initial status if malfunction occur(button malfunction, display, etc.).
Using a pointed good conductor(such as driver), simply short the RESET jump wire on the inside of the volume knob for more than 3 seconds.
If you reset your unit, you must reenter all its settings(stations, clock, timer)

NOTE: 1. To operate the RESET jump wire, pull the volume rotary knob and release it.
2. If you wish to operate the RESET jump wire, it is necessary to unplug the power cord.



❑ ESD PRECAUTIONS

Electrostatically Sensitive Devices (ESD)

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive Devices (ESD). Examples of typical ESD 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 ESD 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 ESD devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESD devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
6. Do not remove a replacement ESD device from its protective package until immediately before you are ready to install it. (Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
7. Immediately before removing the protective material from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will by installed.

CAUTION : BE SURE NO POWER IS APPLIED TO THE CHASSIS OR CIRCUIT, AND OBSERVE ALL OTHER SAFETY PRECAUTIONS.

8. Minimize bodily motions when handing unpackaged replacement ESD devices. (Otherwise 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 ESD device).

CAUTION. 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.

❑ SPECIFICATIONS

General

Power requirements	AC 110-240V , 50/60 Hz
Power consumption	14W
Dimensions (approx.)	430 X 43 X 256 mm (w x h x d)
Mass (approx.)	2.54 kg
Operating temperature	5˚C to 35˚C (41˚F to 95˚F)
Operating humidity	5 % to 90 %

System

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

Outputs

VIDEO OUT	1 Vp-p 75 Ω, sync negative, RCA jack x 1
Audio output (optical audio)	3 V (p-p), 75 Ω, Optical connector x 1
Audio output (analog audio)	2.0 Vrms (1 KHz, 0 dB), 600Ω , RCA jack (L, R) x 1

• Design and specifications are subject to change without notice.

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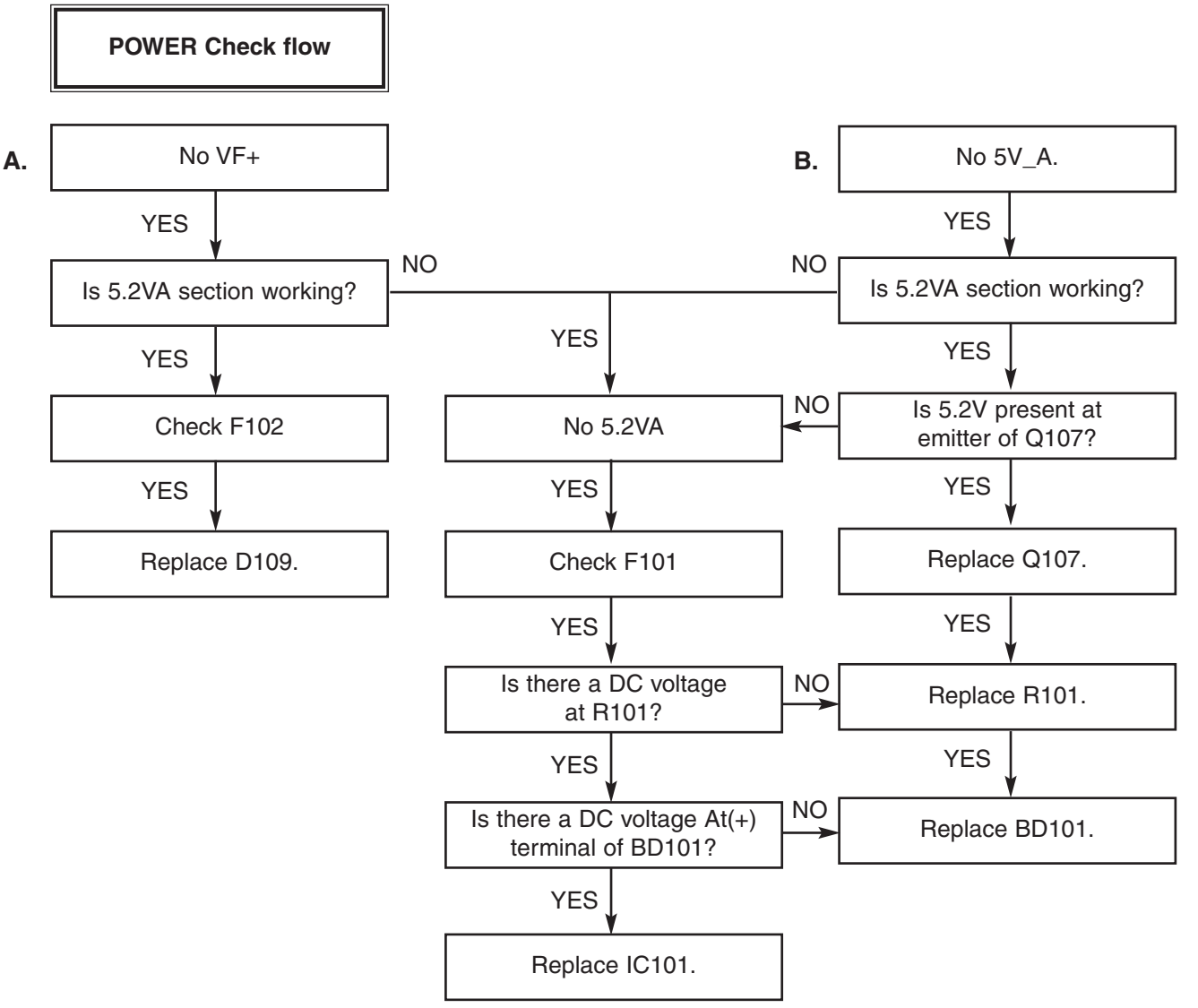
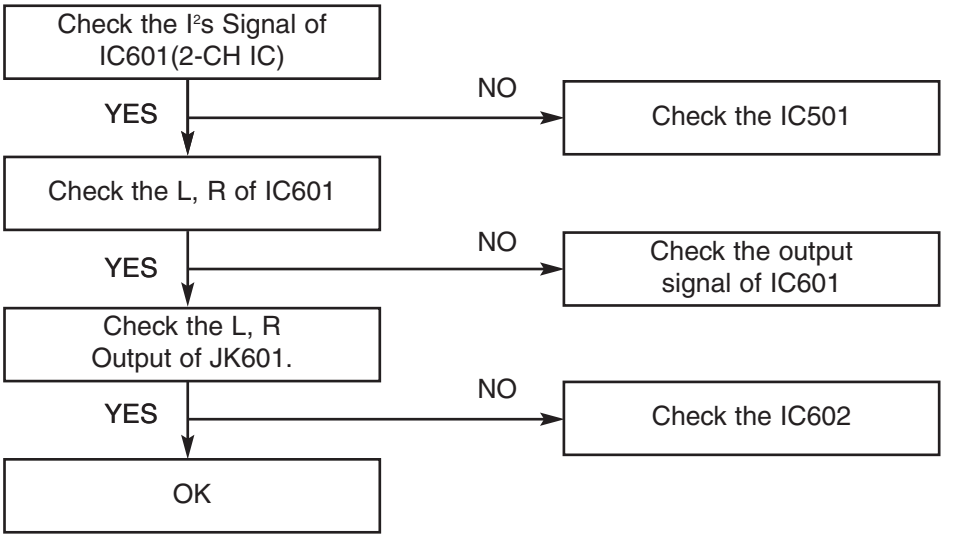
MEMO

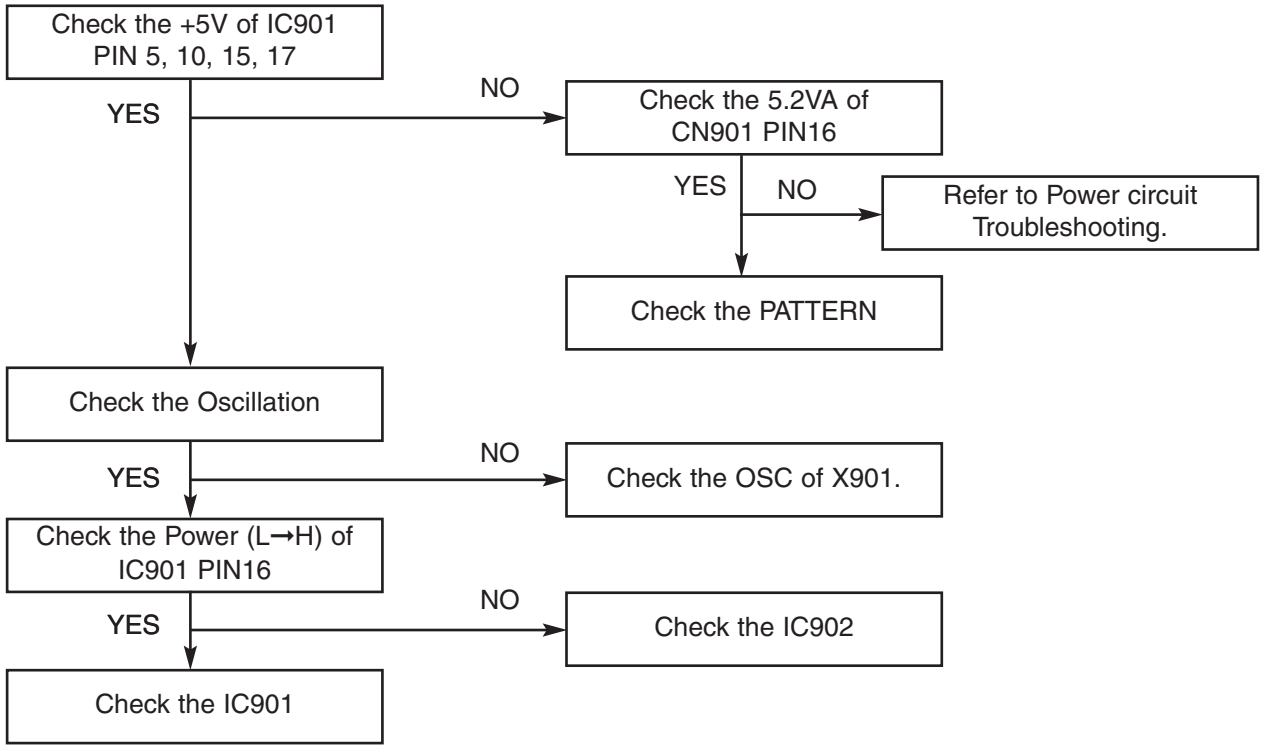
SECTION 2. ELECTRICAL

❑ ELECTRICAL TROUBLESHOOTING GUIDE

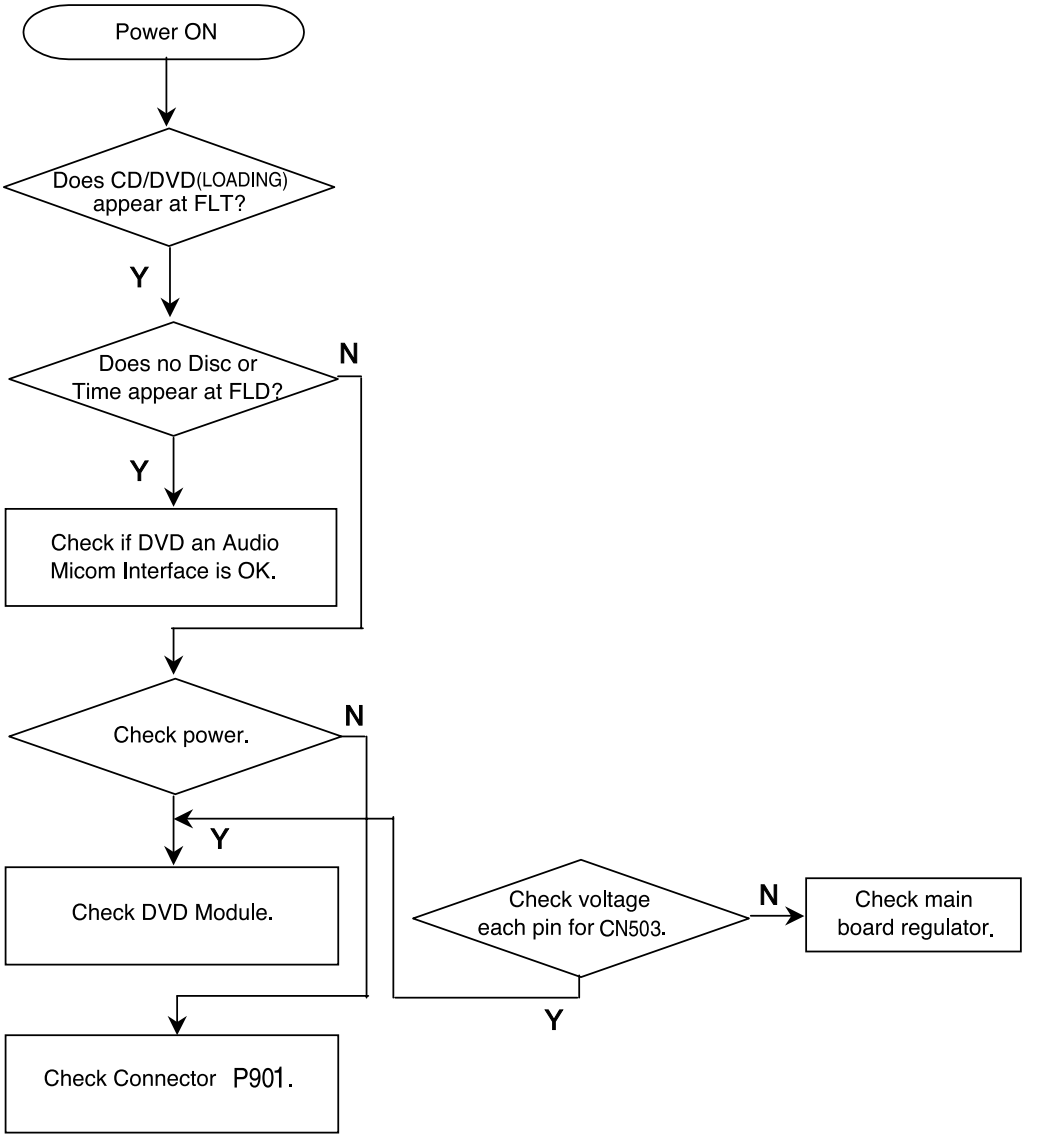




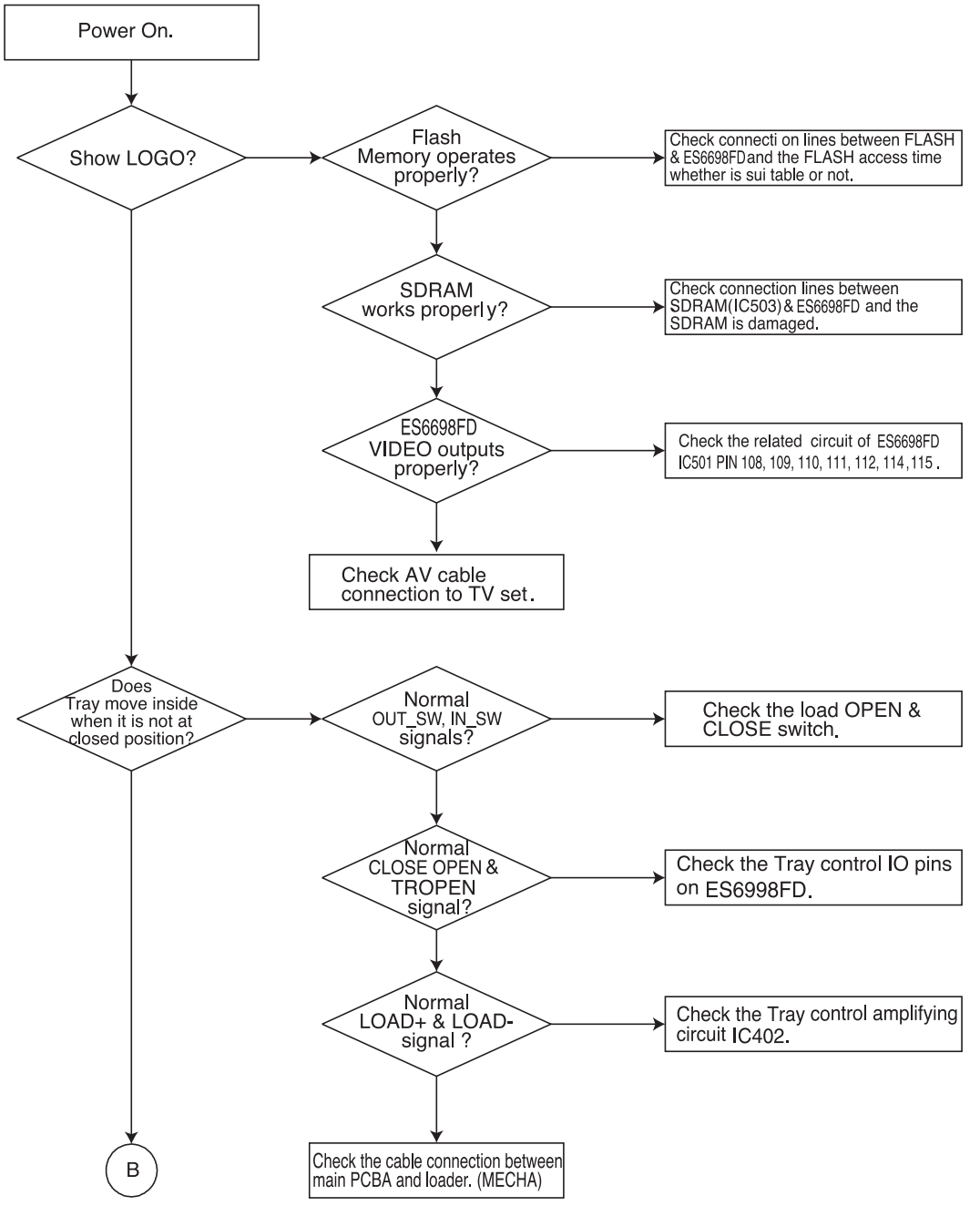
IC901 U-COM IC TROUBLESHHOTING

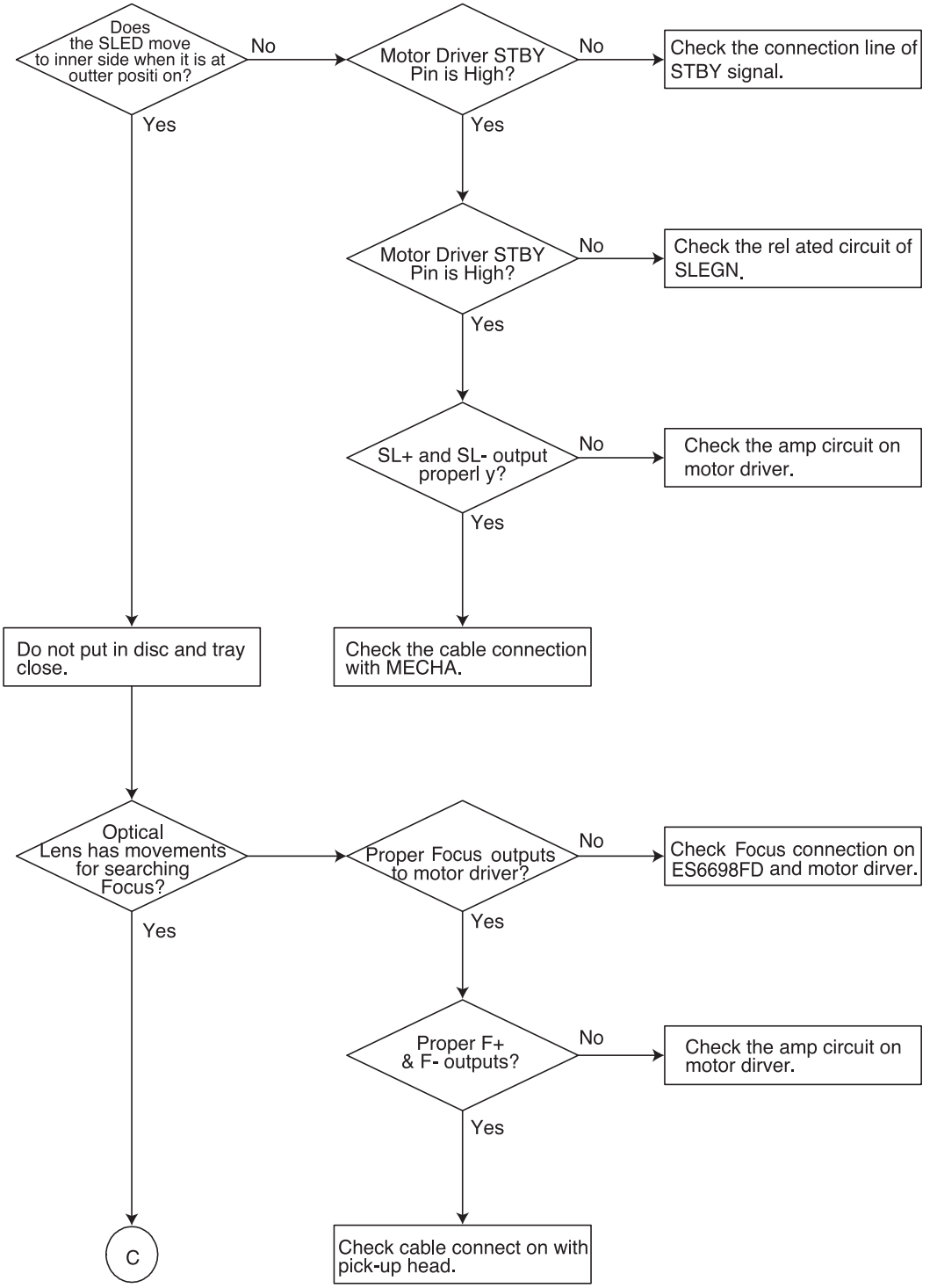


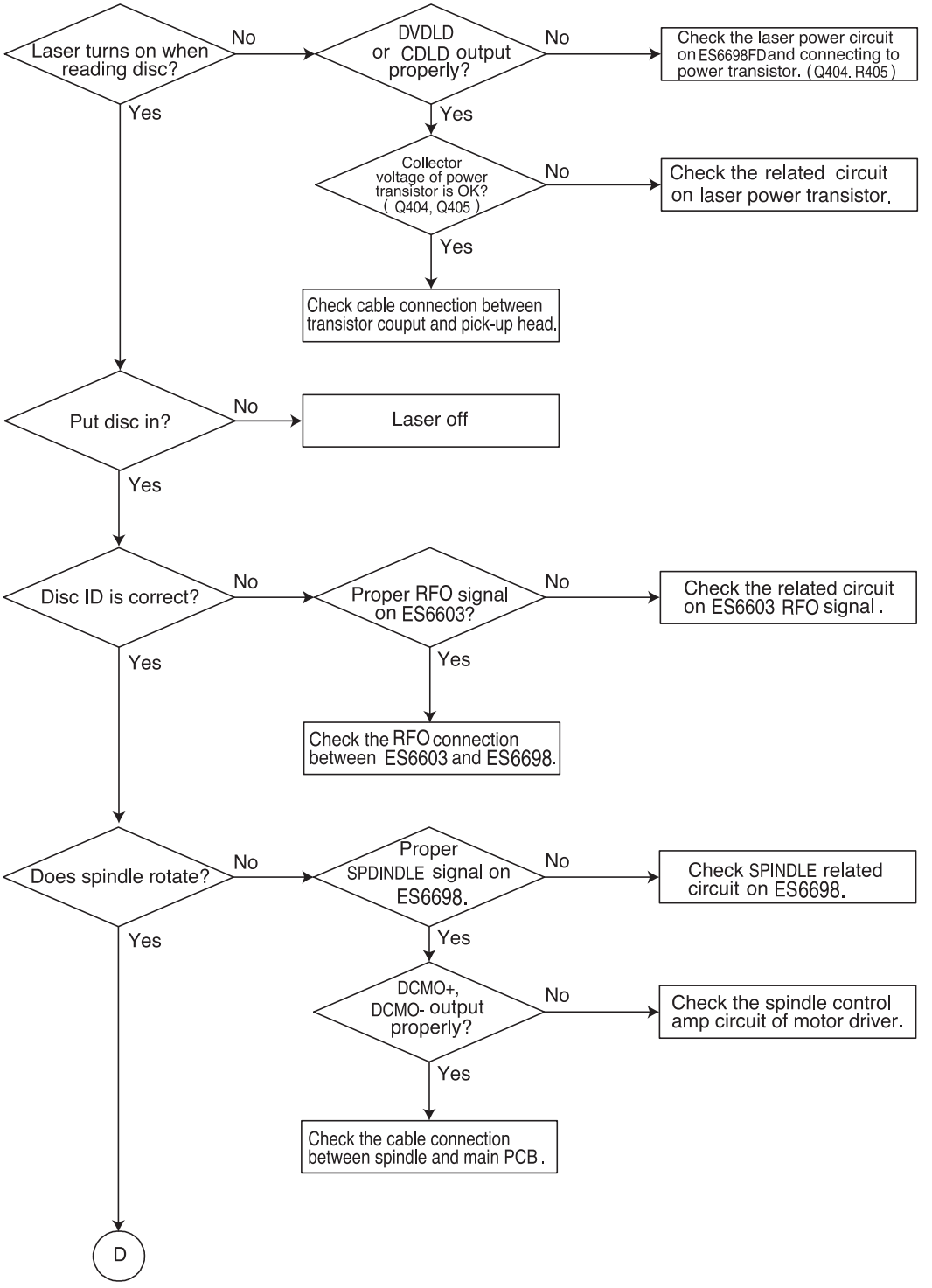
1. Power check flow

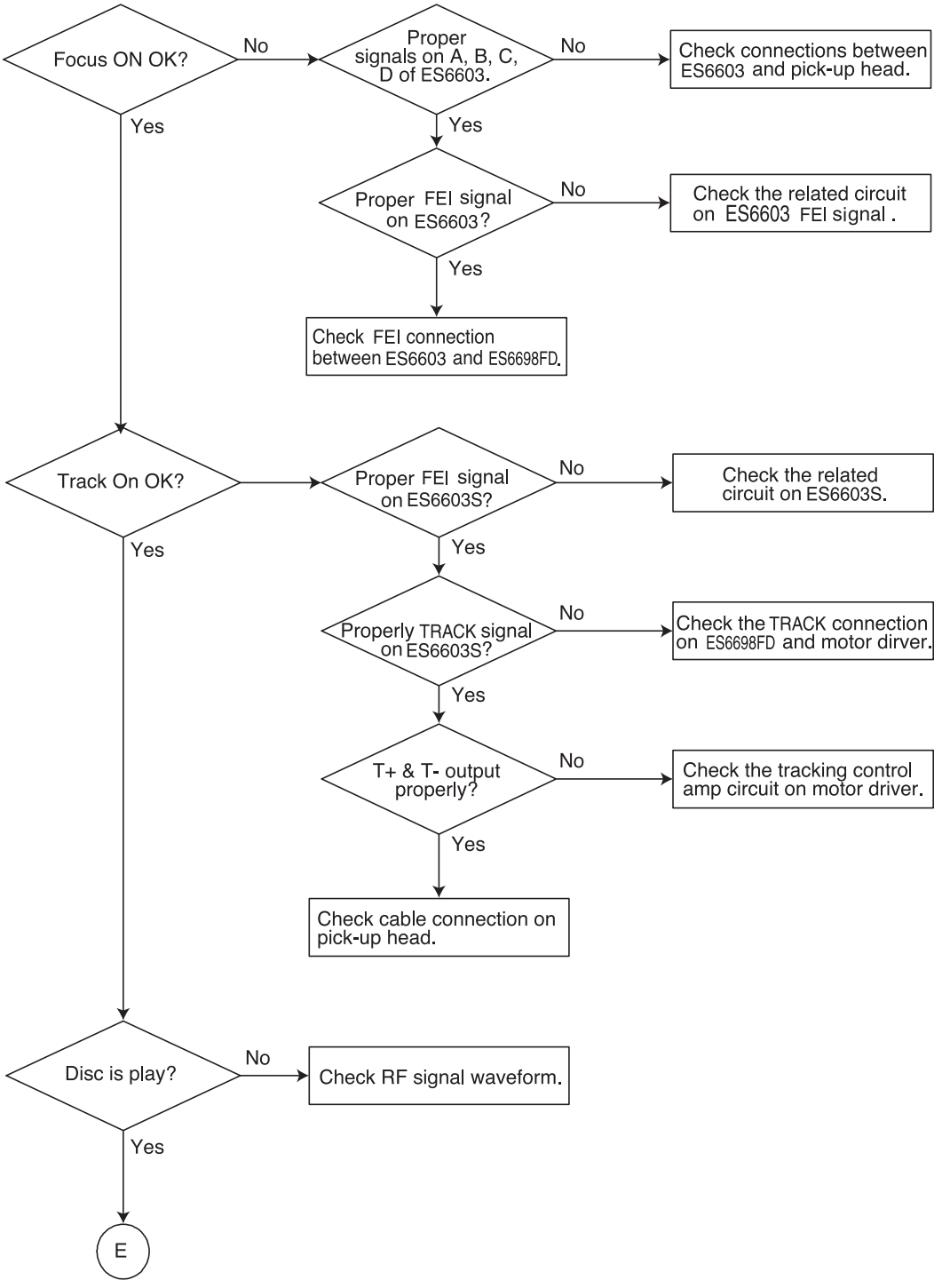


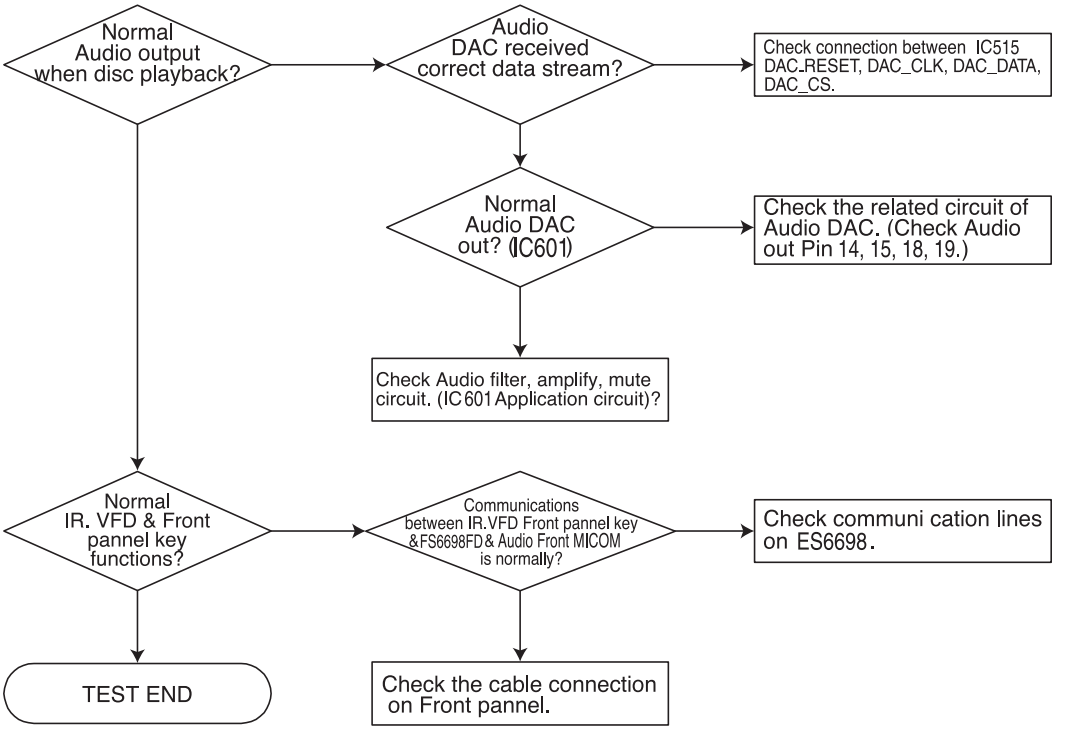
2. Test & debug flow




Does the SLED move to inner side when it is at outter positi on?
No
Motor Driver STBY Pin is High?
No
Check the connection line of STBY signal.
Yes
Yes
Motor Driver STBY Pin is High?
No
Check the rel ated circuit of SLEGN.
Yes
SL+ and SL- output properl y?
No
Check the amp circuit on motor driver.
Yes
Do not put in disc and tray close.
Check the cable connection with MECHA.
Optical Lens has movements for searching Focus?
Proper Focus outputs to motor driver?
No
Check Focus connection on ES6698FD and motor dirver.
Yes
Yes
Proper F+ & F- outputs?
No
Check the amp circuit on motor dirver.
Yes
C
Check cable connect on with pick-up head.

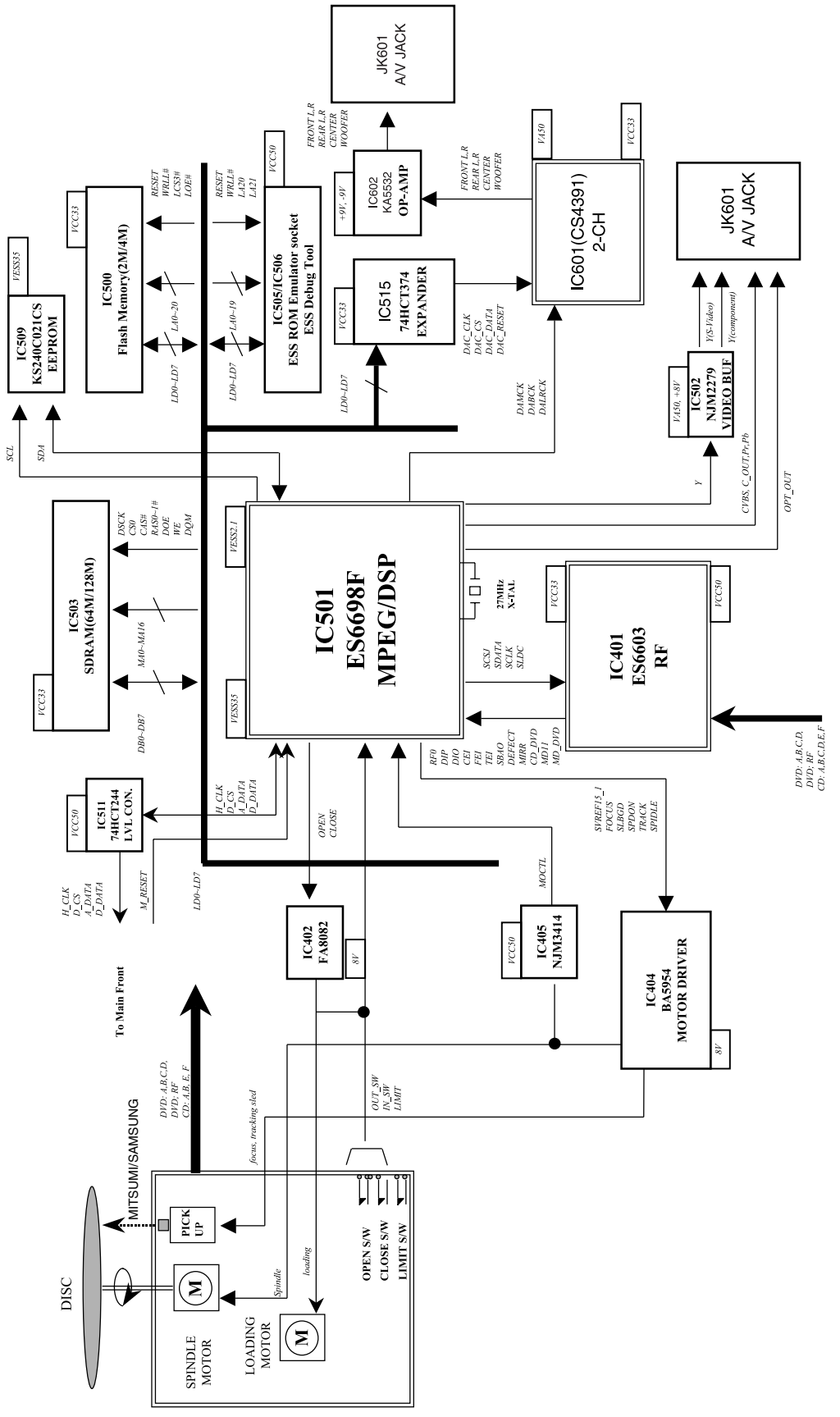

Laser turns on when reading disc?
No
DVDLD or CDLD output properly?
No
Check the laser power circuit on ES6698FD and connecting to power transistor. (Q404. R405)
Yes
Yes
Collector voltage of power transistor is OK? (Q404, Q405)
No
Check the related circuit on laser power transistor.
Yes
Check cable connection between transistor couput and pick-up head.
Put disc in?
No
Laser off
Yes
Disc ID is correct?
No
Proper RFO signal on ES6603?
No
Check the related circuit on ES6603 RFO signal.
Yes
Yes
Check the RFO connection between ES6603 and ES6698.
Does spindle rotate?
No
Proper SPDINDLE signal on ES6698.
No
Check SPINDLE related circuit on ES6698.
Yes
Yes
DCMO+, DCMO- output properly?
No
Check the spindle control amp circuit of motor driver.
Yes
Check the cable connection between spindle and main PCB.
D


Focus ON OK?
No
Proper signals on A, B, C, D of ES6603.
No
Check connections between ES6603 and pick-up head.
Yes
Yes
Proper FEI signal on ES6603?
No
Check the related circuit on ES6603 FEI signal .
Yes
Check FEI connection between ES6603 and ES6698FD.
Track On OK?
Proper FEI signal on ES6603S?
No
Check the related circuit on ES6603S.
Yes
Yes
Properly TRACK signal on ES6603S?
No
Check the TRACK connection on ES6698FD and motor dirver.
Yes
T+ & T- output properly?
No
Check the tracking control amp circuit on motor driver.
Yes
Check cable connection on pick-up head.
Disc is play?
No
Check RF signal waveform.
Yes
E

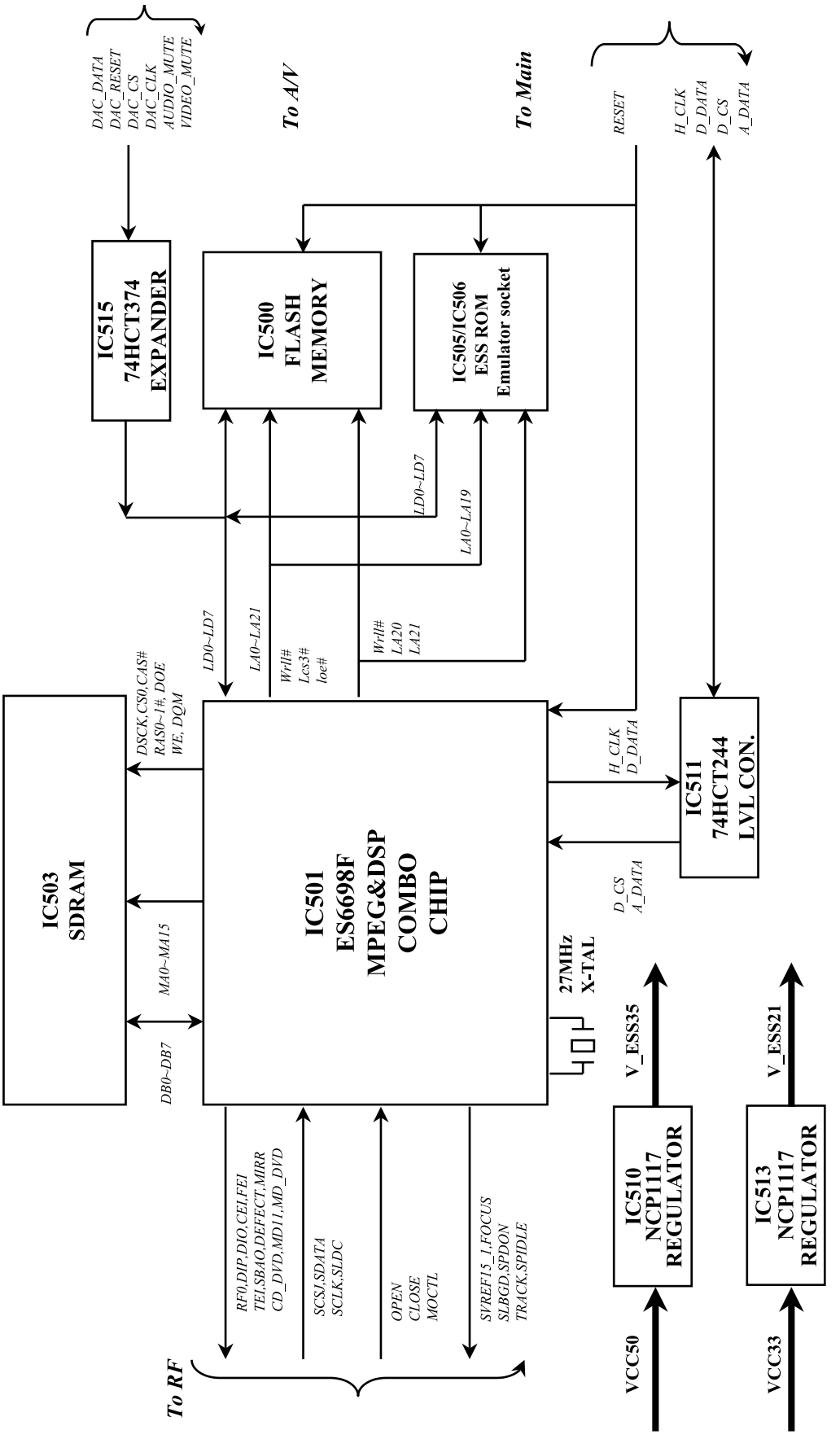

Normal Audio output when disc playback?
Audio DAC received correct data stream?
Check connection between IC515 DAC_RESET, DAC_CLK, DAC_DATA, DAC_CS.
Normal Audio DAC out? (IC601)
Check the related circuit of Audio DAC. (Check Audio out Pin 14, 15, 18, 19.)
Check Audio filter, amplify, mute circuit. (IC601 Application circuit)?
Normal IR. VFD & Front pannel key functions?
Communications between IR.VFD Front pannel key &FS6698FD & Audio Front MICOM is normally?
Check communi cation lines on ES6698.
TEST END
Check the cable connection on Front pannel.

❑ BLOCK DIAGRAM

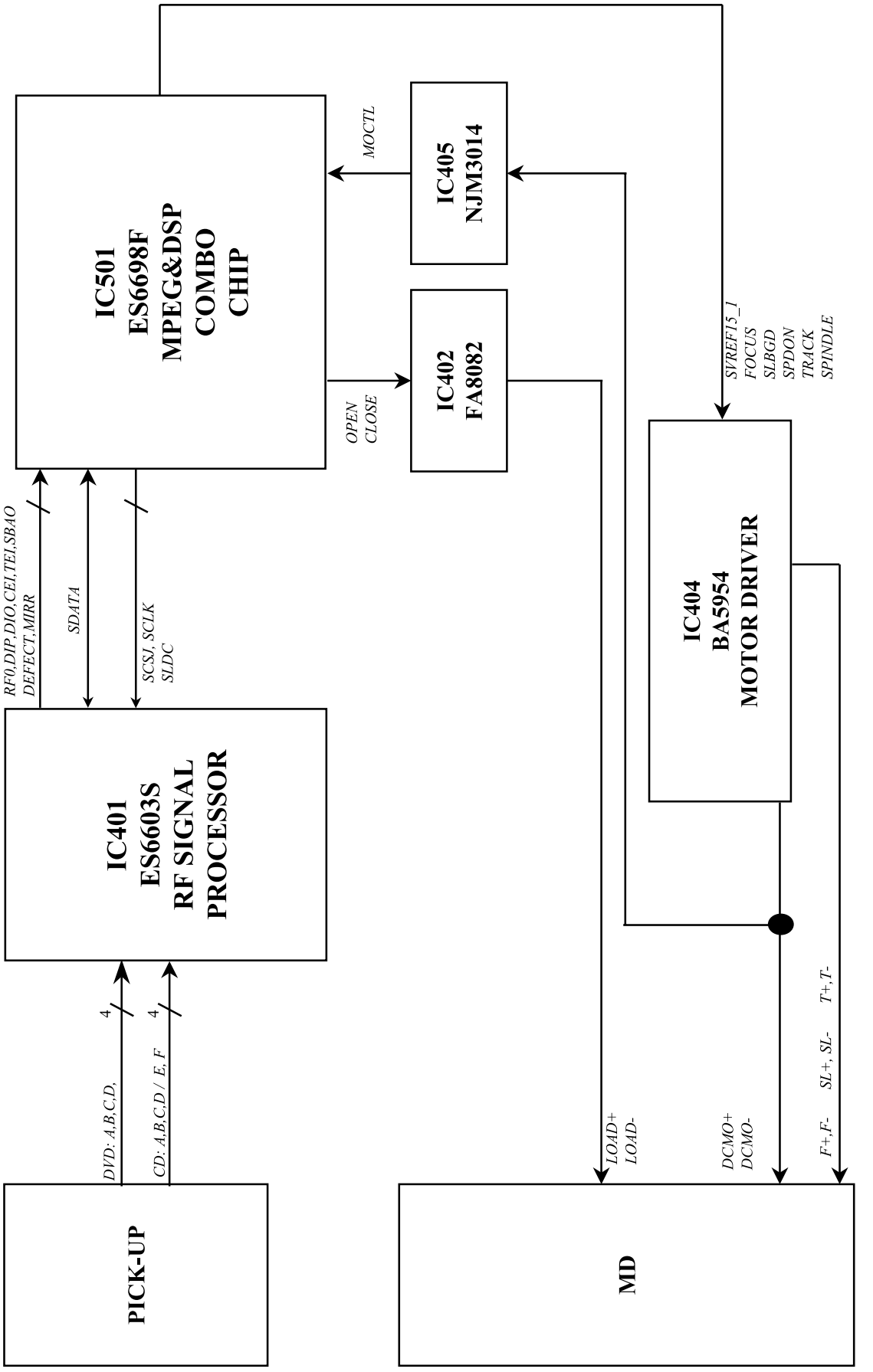
• SYSTEM BLOCK DIAGRAM



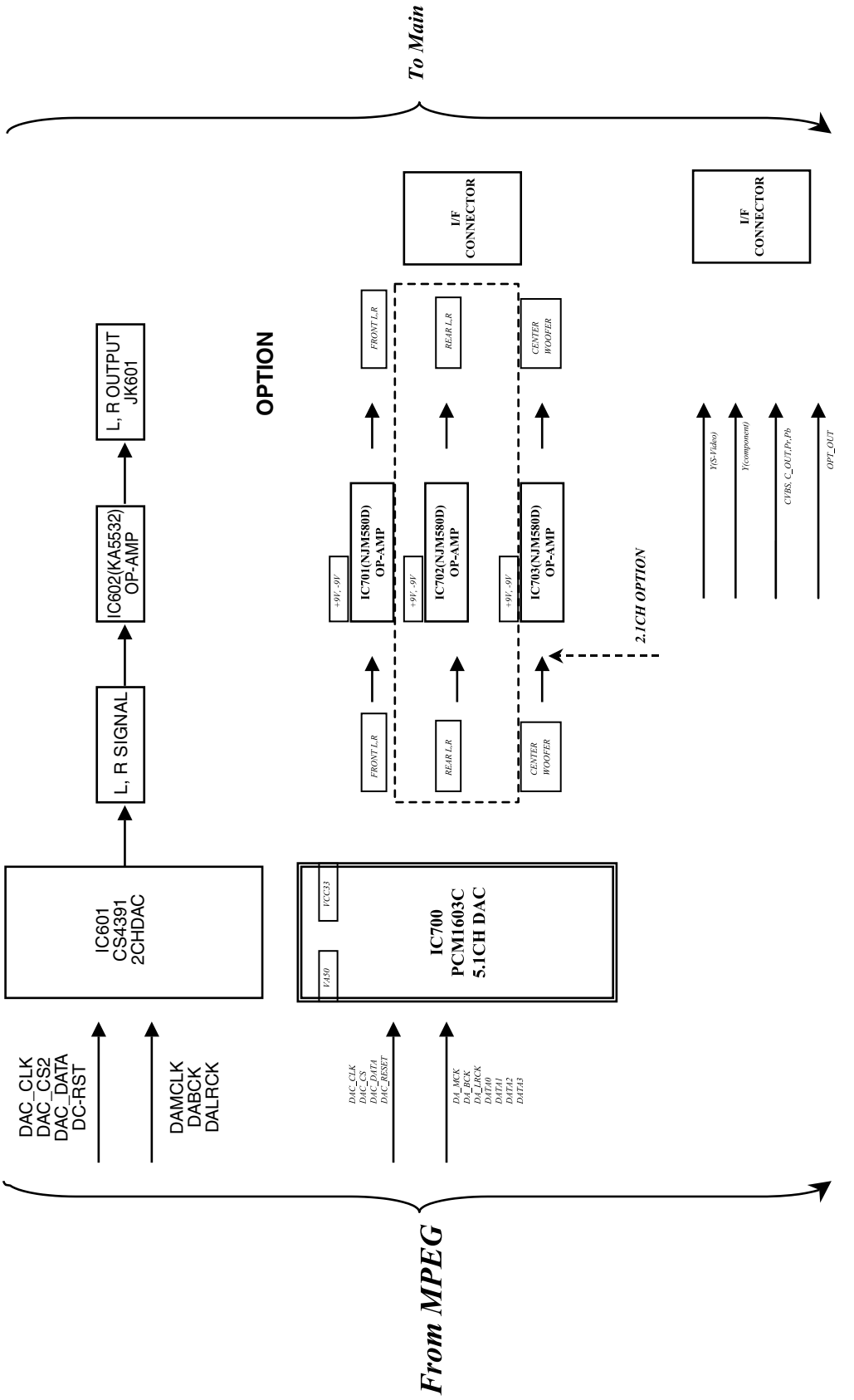
• MEMORY & HOST I/F BLOCK DIAGRAM



• SERVO & MOTOR BLOCK DIAGRAM

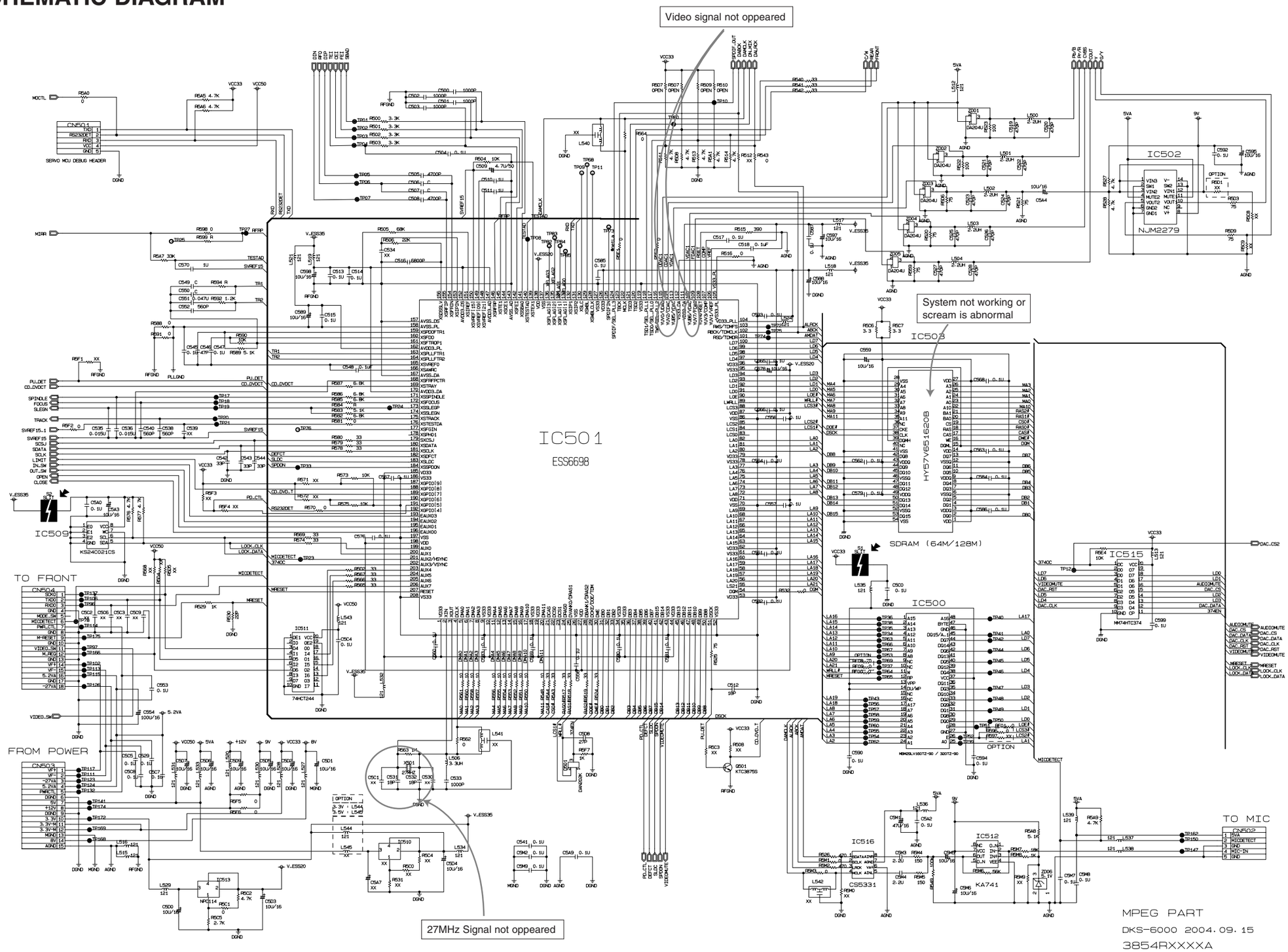


• A/V SYSTEM BLOCK DIAGRAM

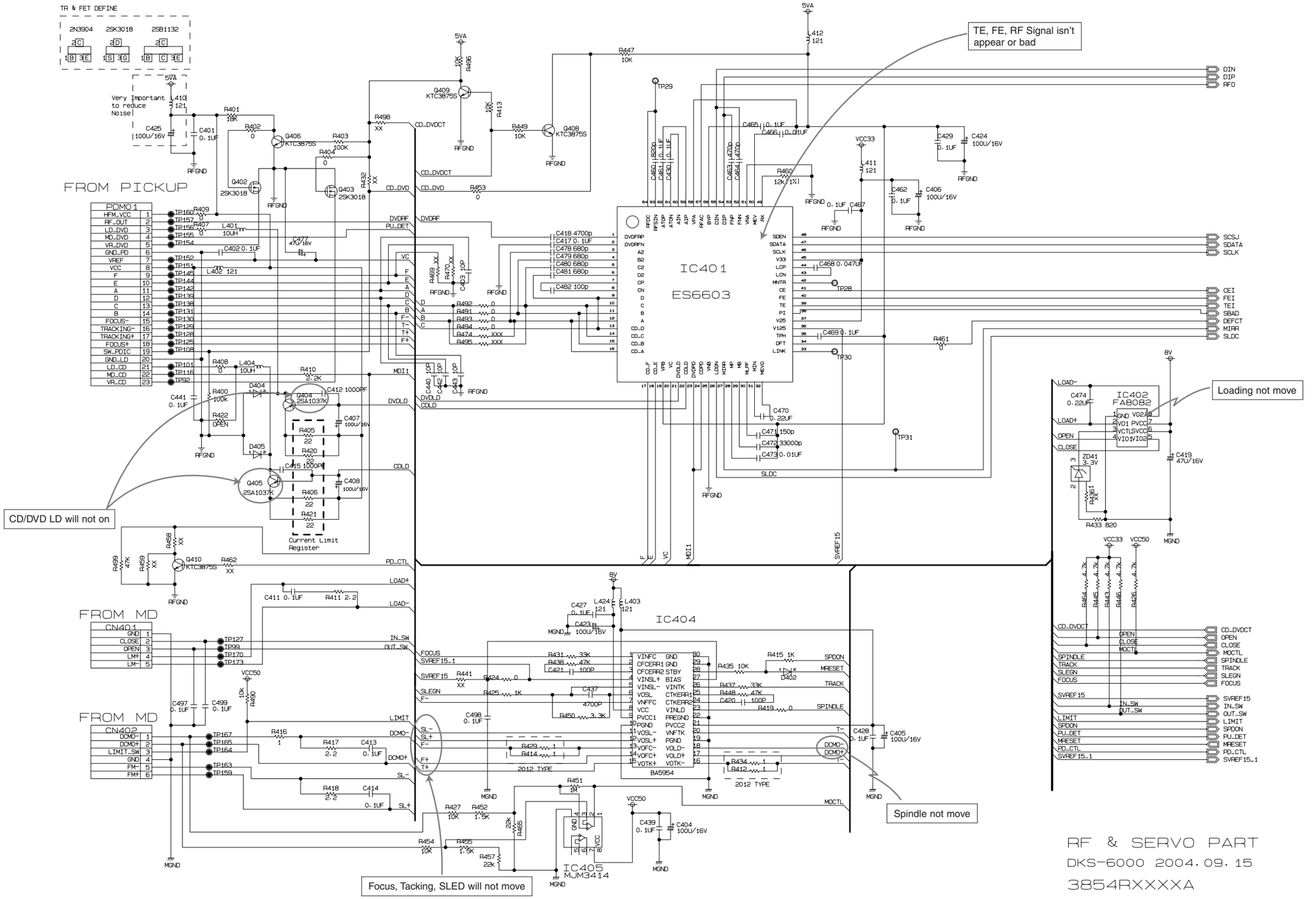


❑ SCHEMATIC DIAGRAMS

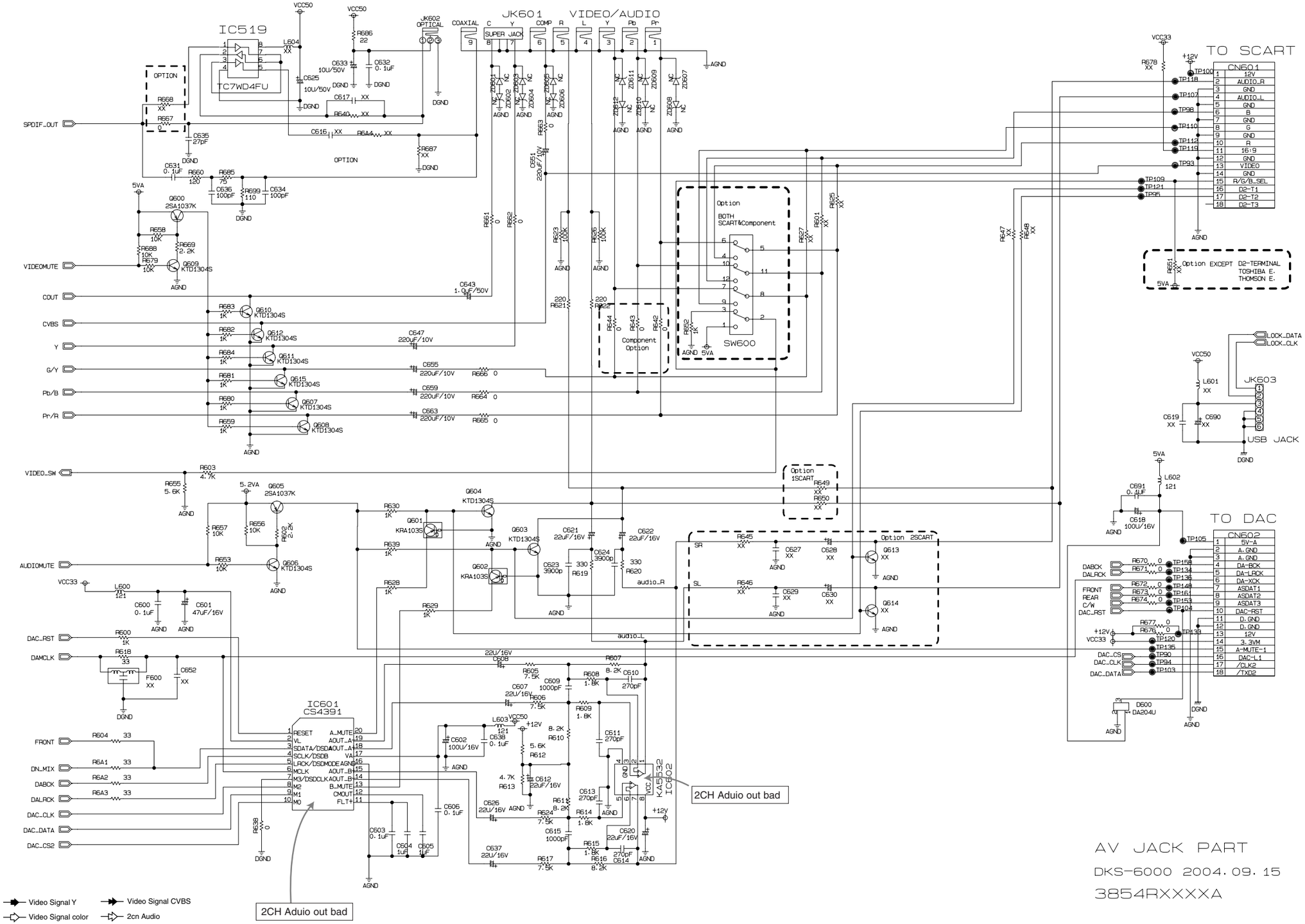
1. MPEG SCHEMATIC DIAGRAM



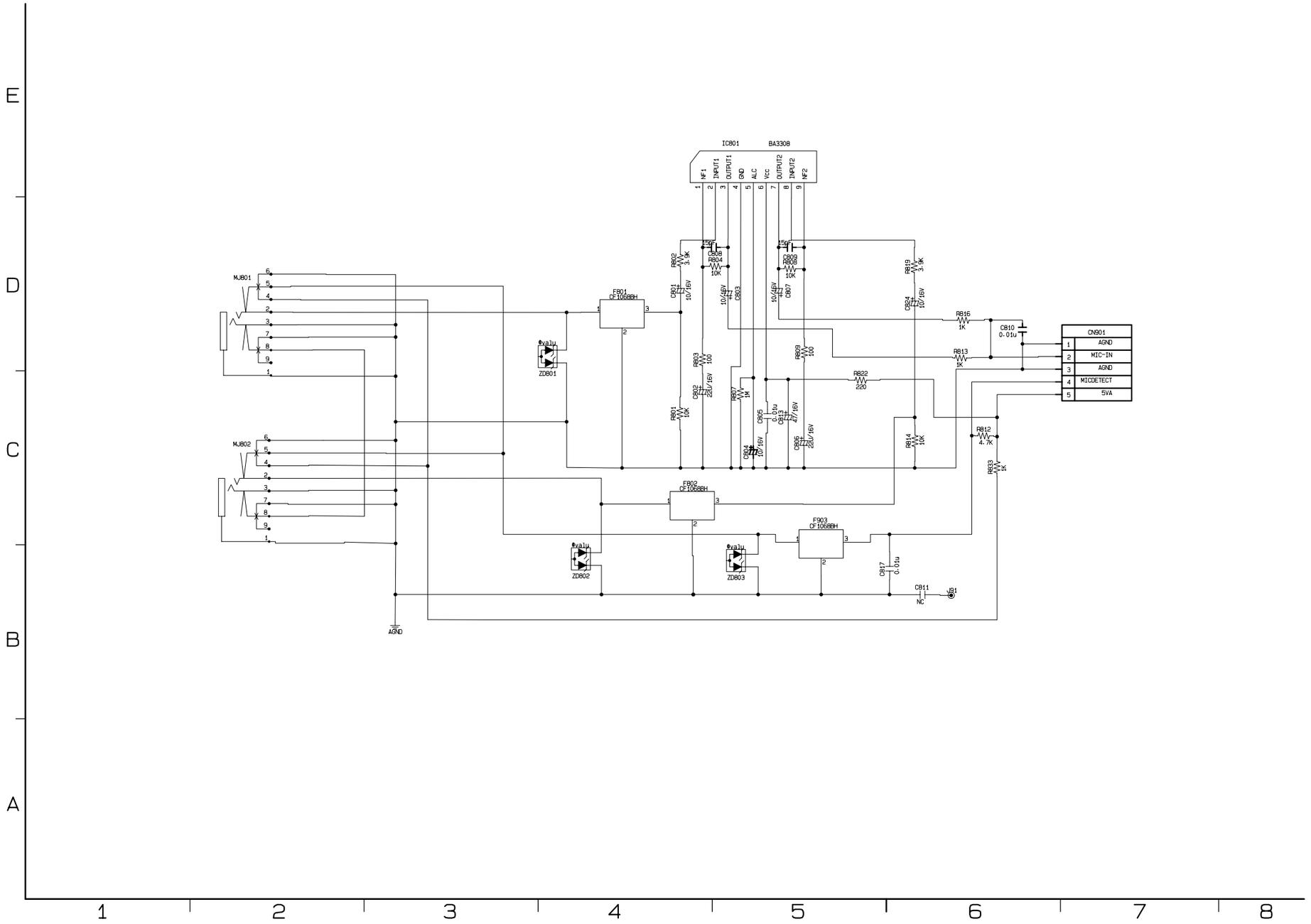
2. RF & SERVO SCHEMATIC DIAGRAM



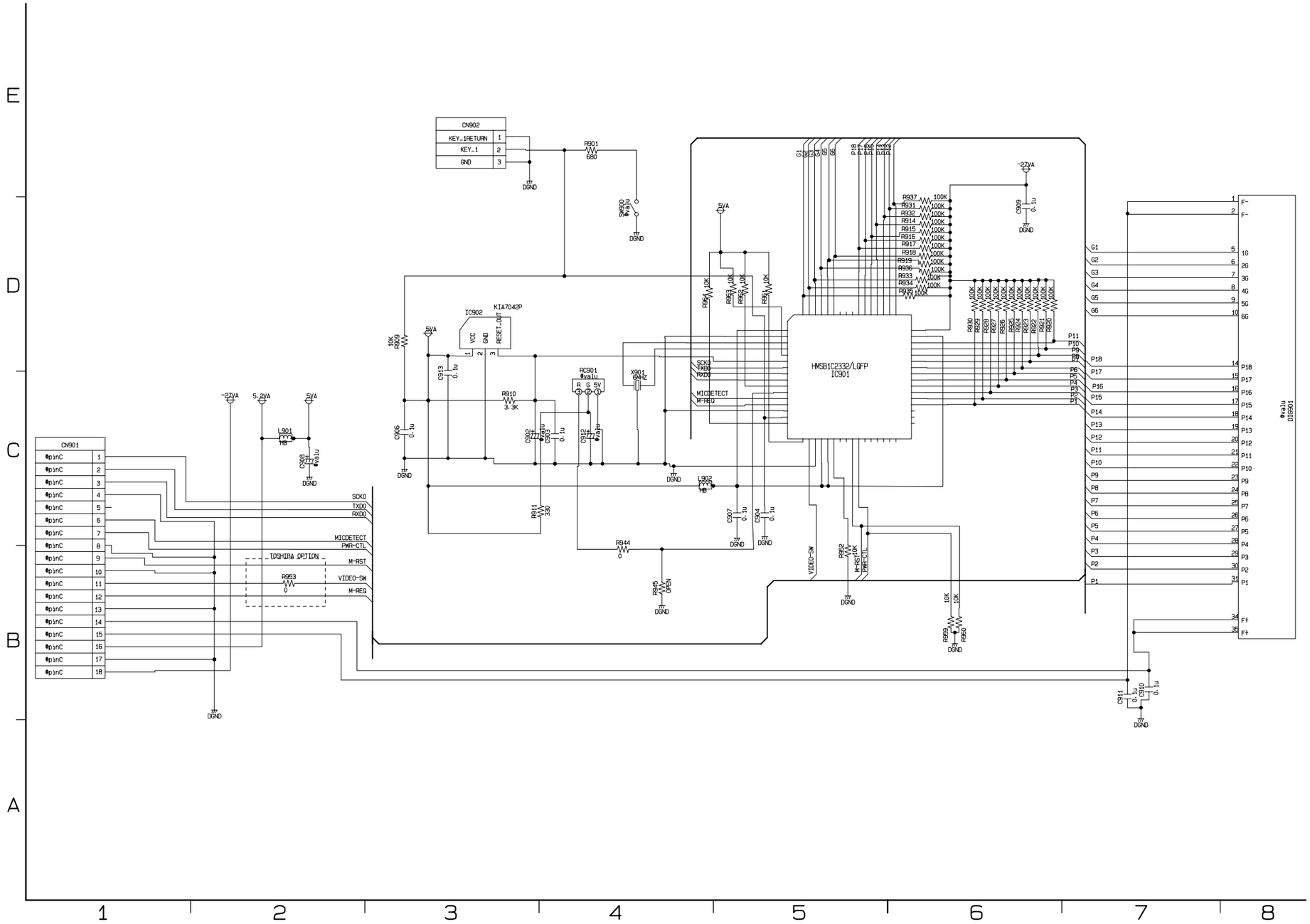
3. AV JACK SCHEMATIC DIAGRAM



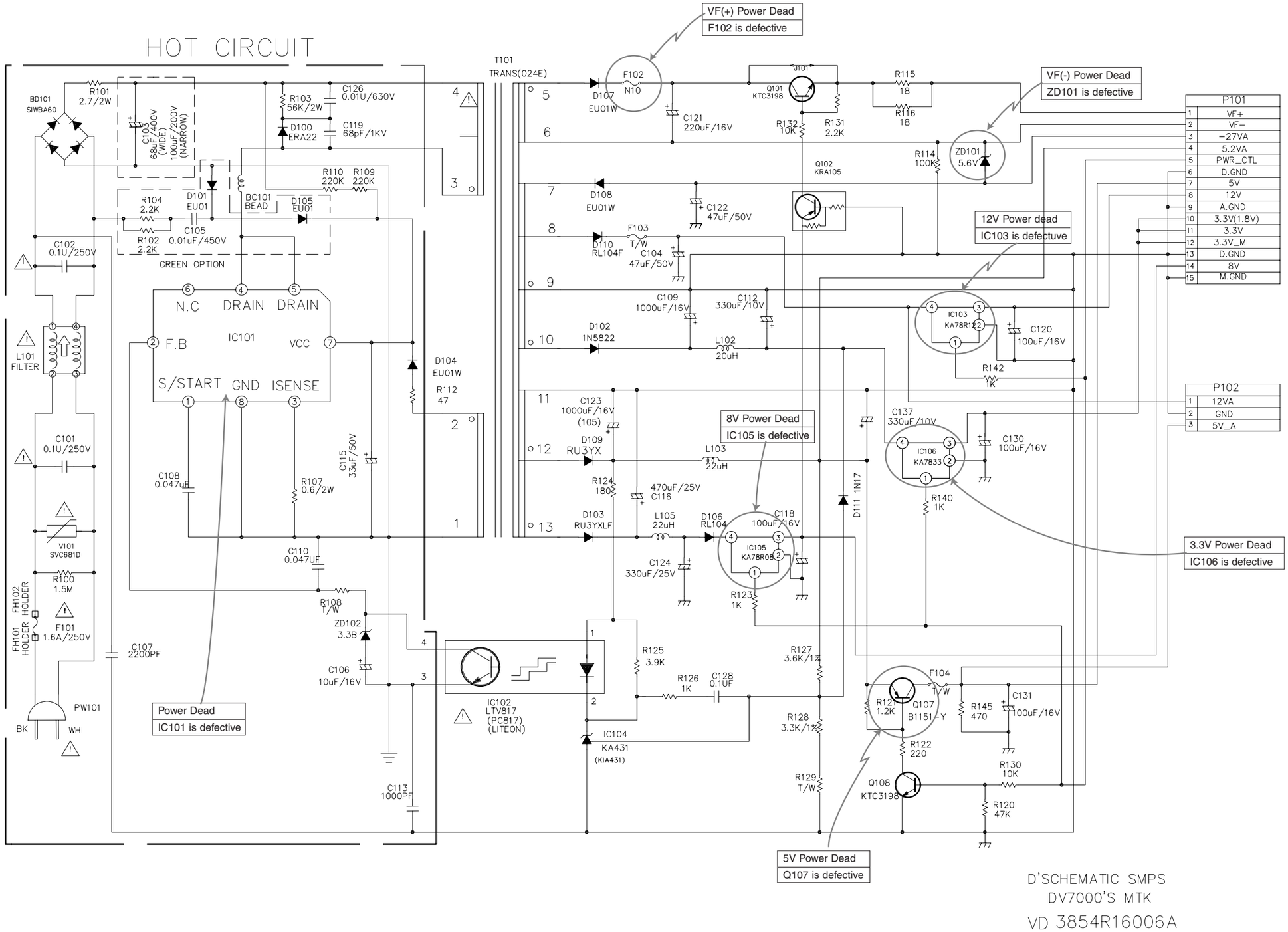
4. MIC SCHEMATIC DIAGRAM



5. FRONT TIMER SCHEMATIC DIAGRAM

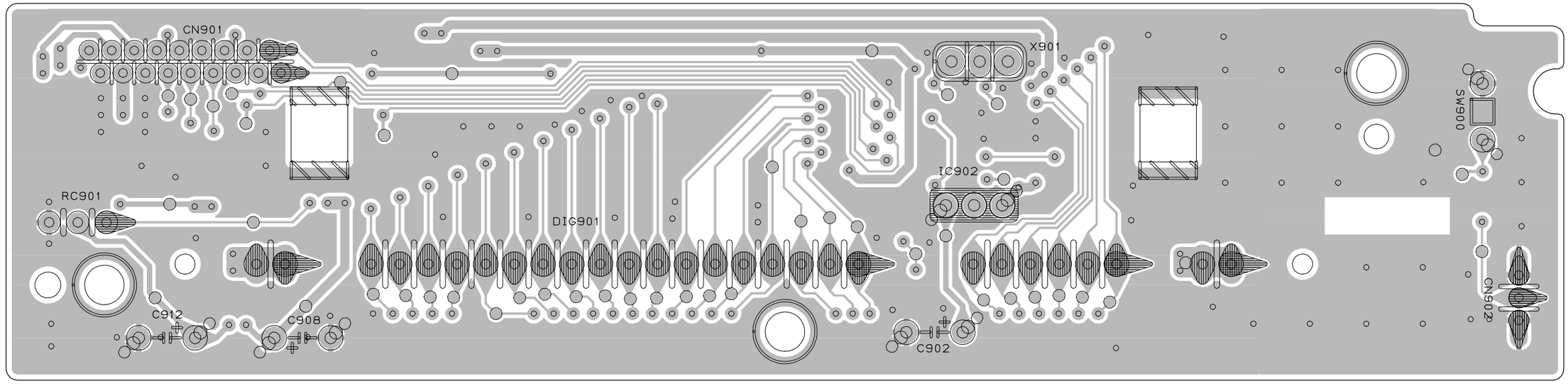


6. SMPS SCHEMATIC DIAGRAM

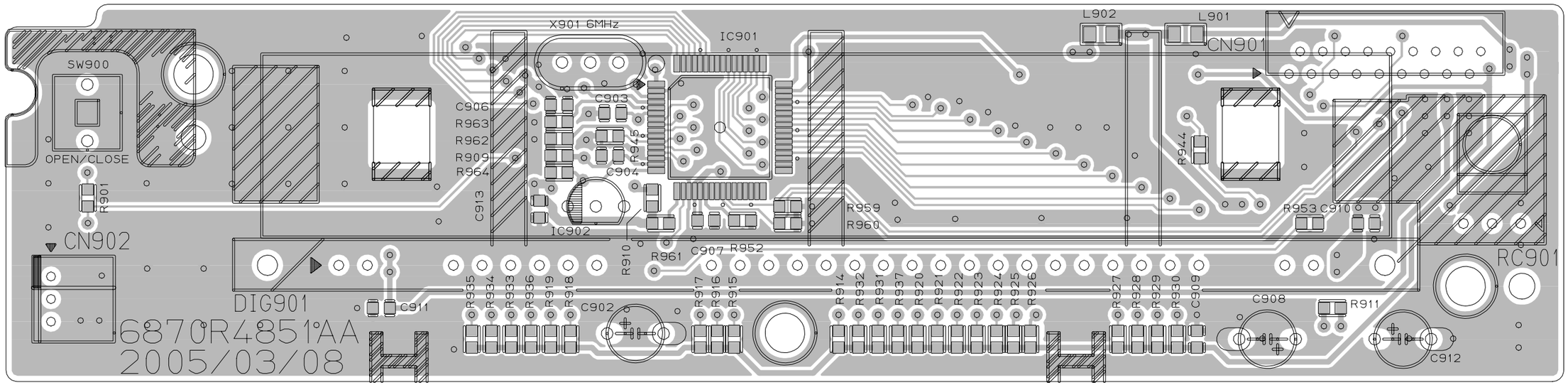


❑ PRINTED CIRCUIT DIAGRAM

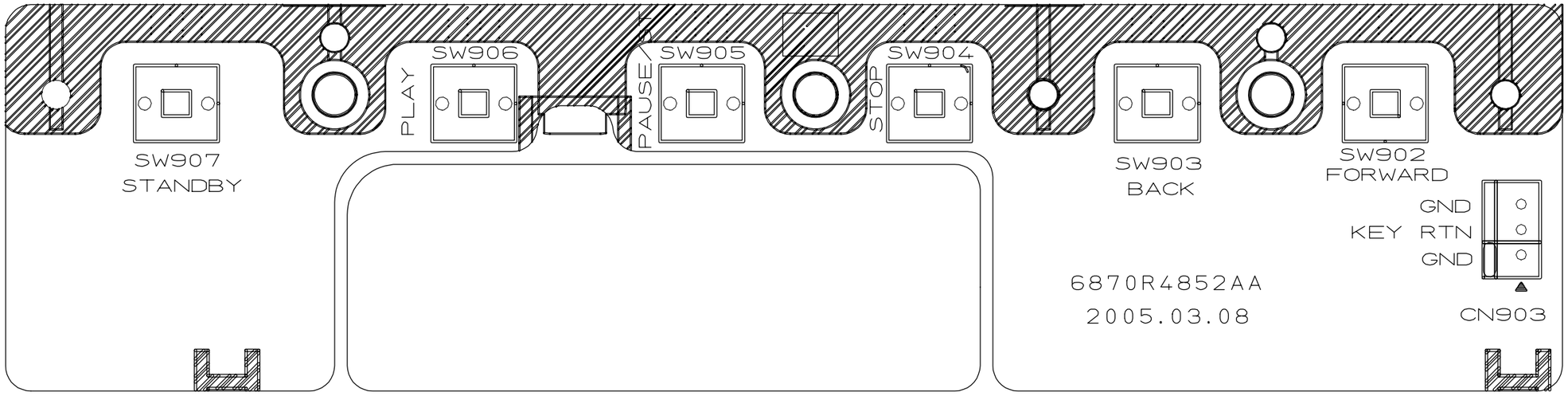
• FRONT P.C BOARD DIAGRAM (SOLDER SIDE)



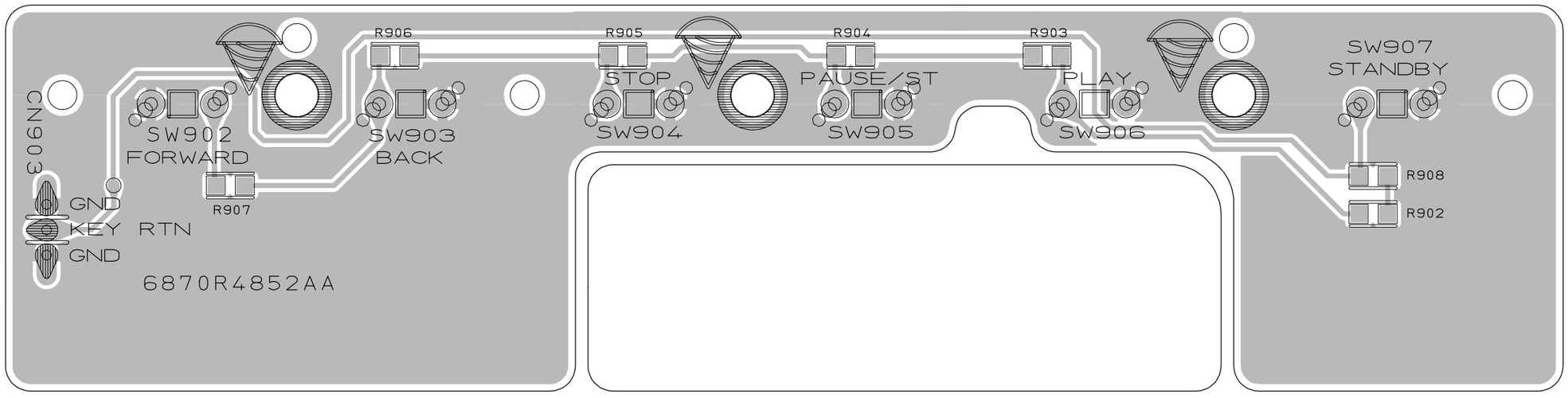
• FRONT P.C BOARD DIAGRAM (COMPONENT SIDE)



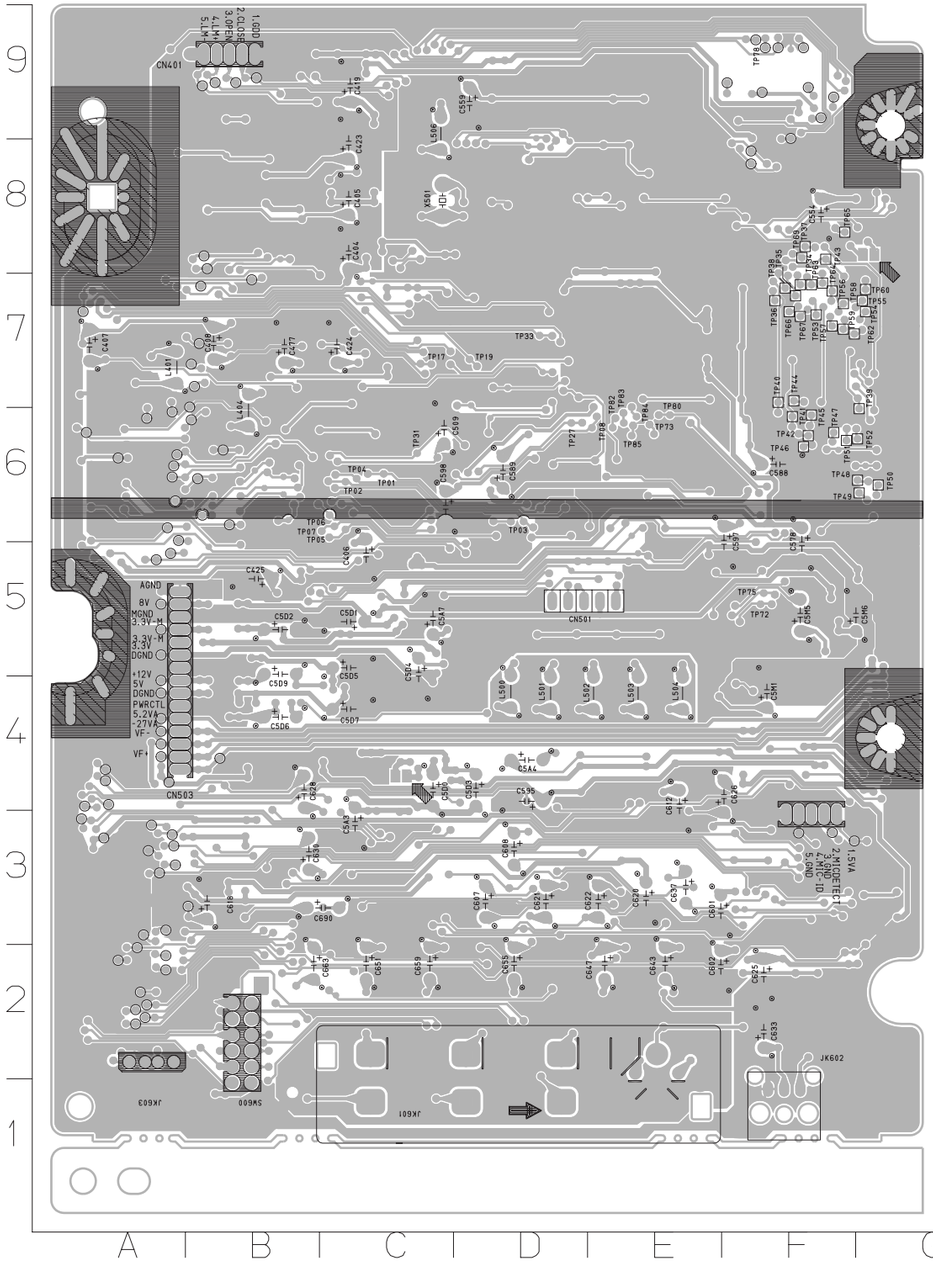
• KEY P.C BOARD DIAGRAM (SOLDER SIDE)



• KEY P.C BOARD DIAGRAM (COMPONENT SIDE)

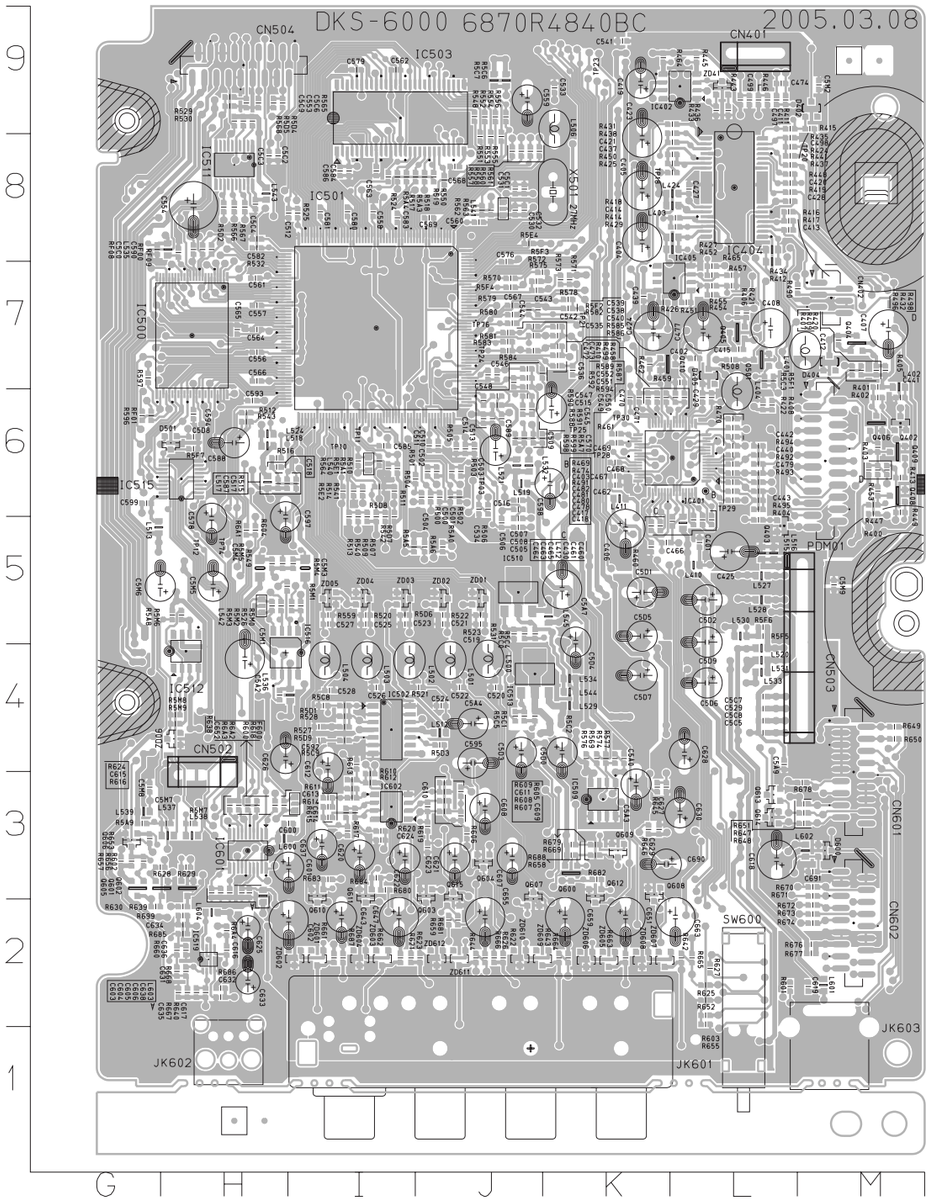


• MPEG P.C BOARD DIAGRAM



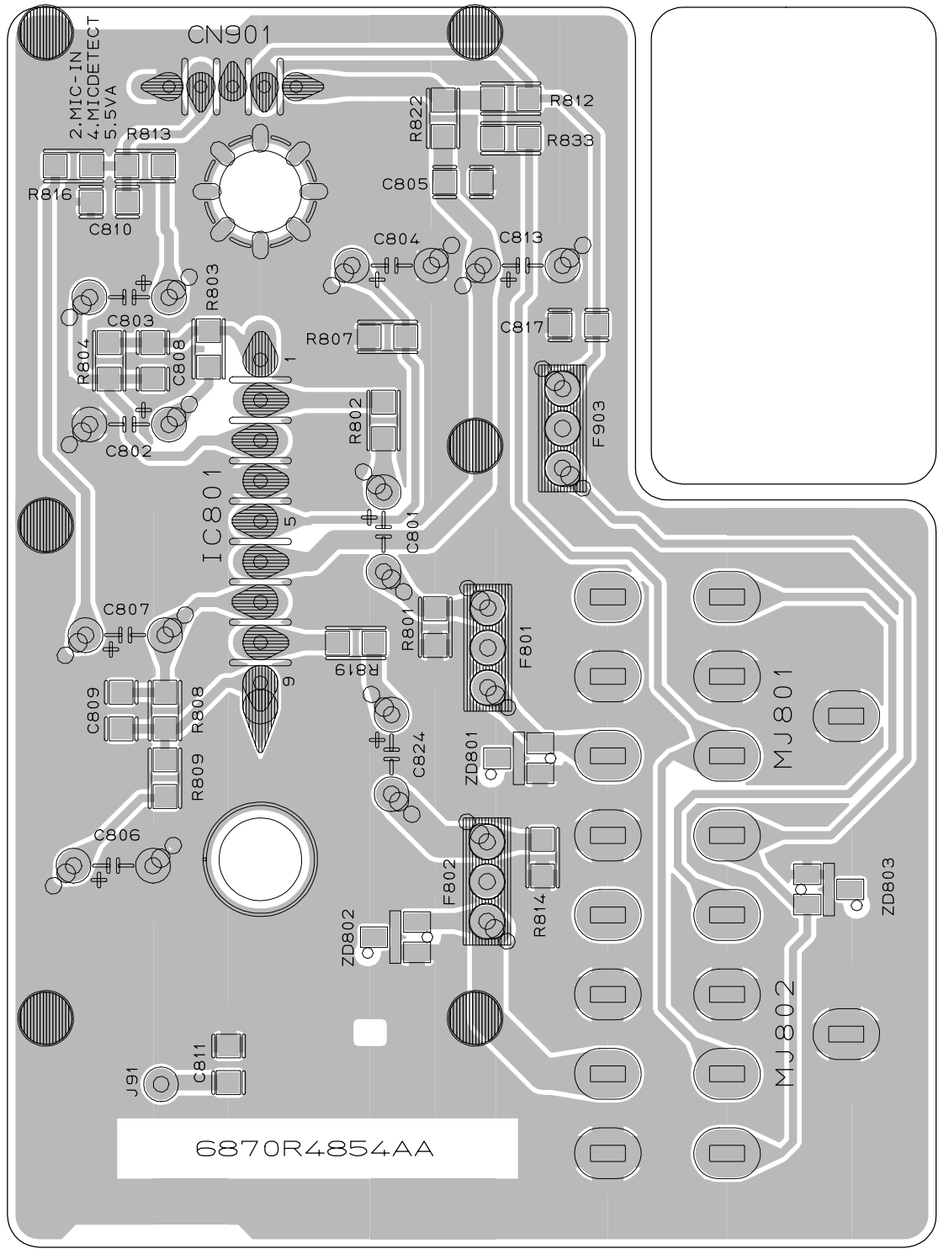
CN501	D5	TP118	A4	TP31	C6
PIN0003	F6	TP119	A3	TP33	D7
PIN0029	B6	TP120	A3	TP34	F7
PIN0031	B6	TP121	A3	TP35	F7
PIN0033	B6	TP123	A4	TP36	F7
PIN0035	B6	TP124	A4	TP37	F8
PIN0052	D6	TP125	B7	TP38	F7
PIN0053	D7	TP126	F9	TP39	G6
PIN0057	D7	TP127	B9	TP40	F7
PIN0078	G6	TP128	A6	TP41	F6
PIN0082	B8	TP129	B7	TP42	F6
PIN0099	D8	TP130	B7	TP43	F8
PIN0100	D8	TP131	B6	TP44	F7
PIN0101	D9	TP132	A4	TP45	F6
PIN0102	D8	TP133	A2	TP46	F6
PIN0165	D7	TP134	A3	TP47	F6
PIN0166	C7	TP135	A2	TP48	G6
PIN0224	F3	TP136	A2	TP49	G6
PIN0225	F3	TP137	F8	TP50	G6
PIN0231	F3	TP138	B6	TP51	F6
PIN0234	C7	TP139	B6	TP52	G6
PIN0238	E5	TP141	A4	TP53	F7
PIN0239	E6	TP142	A6	TP54	G7
PIN0240	D5	TP144	B6	TP55	G7
PIN0243	D5	TP145	A6	TP56	F7
PIN0244	D5	TP147	F3	TP57	F7
PIN0245	D5	TP148	A2	TP58	F7
S1	G8	TP150	F3	TP59	F7
S2	C4	TP151	A6	TP60	G7
TP01	C6	TP152	A6	TP62	F7
TP02	C6	TP153	A2	TP63	F7
TP03	D6	TP154	A6	TP64	F7
TP04	C6	TP155	B6	TP65	F8
TP05	C6	TP156	A6	TP66	F7
TP06	C6	TP157	B6	TP67	F7
TP07	C6	TP158	A3	TP69	F8
TP08	E6	TP159	B8	TP72	F5
TP100	A4	TP160	A6	TP73	E6
TP101	A6	TP161	A2	TP75	F5
TP102	F9	TP162	F3	TP78	F9
TP103	A2	TP163	B8	TP80	E6
TP104	A3	TP164	A7	TP82	E6
TP105	B3	TP165	B7	TP83	E6
TP106	F8	TP166	F8	TP84	E6
TP107	A4	TP167	B7	TP85	E6
TP108	A6	TP168	A5	TP90	A2
TP109	A3	TP169	A5	TP92	A5
TP110	A4	TP17	C7	TP93	A3
TP111	A4	TP170	B9	TP94	A2
TP112	A3	TP172	A5	TP95	A3
TP113	F9	TP173	B9	TP96	F9
TP114	F9	TP174	A4	TP97	F9
TP115	F9	TP175	F9	TP98	A4
TP116	A5	TP19	D7	TP99	B9
TP117	B4	TP27	D6		

• MPEG P.C BOARD DIAGRAM

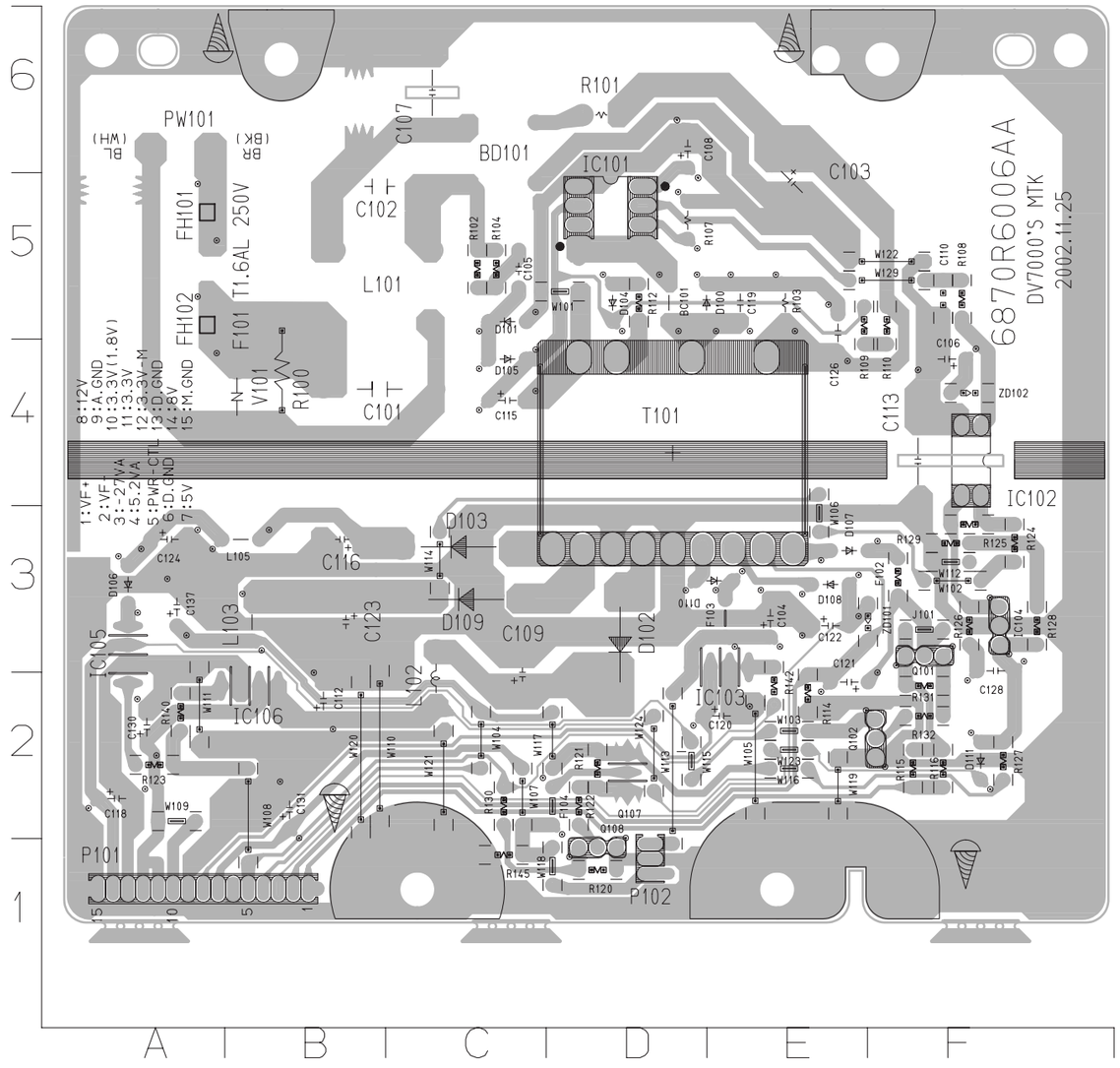


C401	L5	C506	J5	C569	J8	C603	H3	IC405	L7	L600	H3	PIN0083	L8	Q402	M6	R441	L8	R528	I4	R5A3	J8	R615	I3	R686	H2
C402	L7	C507	J6	C570	J6	C604	H3	IC500	H7	L601	M2	PIN0084	L8	Q403	L5	R443	L9	R529	H9	R5A4	I8	R616	I3	R687	I2
C403	L6	C508	J5	C576	J7	C605	H3	IC501	I7	L602	M3	PIN0085	L8	Q404	M7	R445	L9	R530	H9	R5A5	I5	R617	I3	R688	K3
C404	K8	C509	K6	C578	H5	C606	H3	IC502	I4	L603	H3	PIN0086	L8	Q405	L7	R446	L9	R531	J5	R5A6	J5	R618	H3	R699	H2
C405	K8	C510	J6	C579	I9	C607	J3	IC503	I9	L604	H2	PIN0087	L7	Q406	M6	R447	M6	R532	H8	R5A7	J6	R619	J3	R6A1	H5
C406	K5	C511	J6	C580	I8	C608	J3	IC509	K3	PDM01	M6	PIN0088	L7	Q408	M6	R448	L8	R540	I5	R5A8	H5	R620	I3	R6A2	H3
C407	M7	C512	I8	C581	I8	C609	J3	IC510	J5	PIN0001	J6	PIN0091	I9	Q409	M6	R449	M6	R541	I6	R5A9	G3	R621	I2	R6A3	H3
C408	L7	C513	J6	C582	H8	C610	J3	IC511	H8	PIN0004	I5	PIN0092	I8	Q410	K7	R450	L8	R542	I5	R5C0	J5	R622	J2	R6A4	H2
C411	L9	C514	J6	C583	I8	C611	J3	IC512	H4	PIN0005	H5	PIN0095	J8	Q501	L7	R451	L7	R543	H6	R5C1	J4	R623	J2	RF00	H8
C412	M7	C515	J6	C584	I8	C612	I4	IC513	J4	PIN0008	K8	PIN0097	J8	Q600	K3	R452	L7	R548	J9	R5C2	J4	R624	I3	RF01	G6
C413	L8	C516	J6	C585	I6	C613	I3	IC515	H6	PIN0009	L6	PIN0098	J8	Q601	H3	R453	M6	R549	H5	R5C3	L7	R625	L2	RF08	H8
C414	L8	C517	H6	C586	I8	C614	I3	IC516	H4	PIN0010	L6	PIN0103	J9	Q602	H3	R454	L7	R550	J8	R5C4	J5	R626	J2	RF09	H8
C415	L7	C518	H6	C587	H6	C615	I3	IC519	H2	PIN0011	M8	PIN0105	J9	Q603	J3	R455	L7	R551	J8	R5C5	J4	R627	L2	SW600	L1
C417	L6	C519	J5	C588	H6	C616	H2	IC601	H3	PIN0012	K8	PIN0106	J9	Q604	J3	R457	L7	R552	J9	R5C6	J9	R628	G3	TP09	I6
C418	L6	C520	J4	C589	J6	C617	H2	IC602	I3	PIN0016	L6	PIN0107	J9	Q605	G3	R458	L6	R553	J8	R5C7	J9	R629	H3	TP10	I6
C419	K9	C521	J5	C590	H8	C618	L3	JK601	J1	PIN0017	J6	PIN0108	J9	Q606	G3	R459	L7	R554	J9	R5C8	I4	R630	G2	TP11	I6
C420	L8	C522	J4	C592	I4	C619	M2	JK602	H1	PIN0018	K6	PIN0109	J9	Q607	J2	R460	K5	R555	J8	R5C9	I4	R638	H3	TP12	H5
C421	L8	C523	I5	C593	H6	C620	I3	JK603	M1	PIN0019	K5	PIN0128	M5	Q608	K3	R461	K6	R556	J9	R5D1	I4	R639	H2	TP18	K8
C423	K8	C524	J4	C594	H6	C621	J3	L401	M7	PIN0022	K6	PIN0131	G8	Q609	K3	R462	K7	R557	J8	R5D2	H8	R640	H2	TP20	M8
C424	K7	C525	I5	C595	J4	C622	I3	L402	M7	PIN0023	K6	PIN0132	H6	Q610	I3	R464	K9	R558	J8	R5D3	J4	R642	L2	TP21	J7
C425	L5	C526	I4	C597	H5	C623	J3	L403	L8	PIN0024	K7	PIN0138	H8	Q611	I3	R465	L7	R559	I5	R5D4	H9	R643	K2	TP23	K9
C427	L8	C527	I5	C598	K6	C624	I3	L404	L6	PIN0025	K6	PIN0139	H8	Q612	K3	R469	L6	R560	J8	R5D5	H9	R644	J2	TP24	J7
C428	L8	C528	I4	C599	G6	C625	H2	L410	L5	PIN0027	K6	PIN0145	H6	Q613	L3	R470	L6	R561	J8	R5D6	I5	R645	K3	TP25	J6
C429	L6	C529	L4	C5A0	K4	C626	H4	L411	K6	PIN0032	L6	PIN0146	H6	Q614	L3	R474	L6	R562	J8	R5D7	I5	R646	K3	TP28	K6
C430	L5	C530	J8	C5A2	H4	C627	K3	L412	L5	PIN0038	J6	PIN0147	I6	Q615	J2	R490	M7	R563	J8	R5D8	I6	R647	M3	TP29	L6
C437	L8	C531	J8	C5A3	K3	C628	L4	L424	L8	PIN0039	J8	PIN0148	I6	R400	M6	R491	L6	R564	I6	R5D9	I4	R648	M3	TP30	K6
C439	K7	C532	J8	C5A4	J4	C629	K3	L500	J4	PIN0040	J8	PIN0151	I6	R401	M7	R492	L6	R565	H9	R5E1	I6	R649	M4	TP68	I6
C440	L6	C533	K9	C5A7	K5	C630	L3	L501	J4	PIN0041	I6	PIN0152	I6	R402	M6	R493	L6	R566	H8	R5E2	I6	R650	M4	TP74	H5
C441	M6	C534	J6	C5A9	L4	C631	H2	L502	I4	PIN0042	J6	PIN0154	J6	R403	M6	R494	L6	R567	H8	R5E4	J8	R651	M3	TP76	J7
C442	L6	C535	J7	C5C0	G8	C632	H2	L503	I4	PIN0043	J9	PIN0156	K7	R404	L5	R495	L6	R568	H9	R5F1	L7	R652	L2	X501	K8
C443	L6	C536	K7	C5C1	J8	C633	H2	L504	I4	PIN0044	J6	PIN0158	J7	R405	M7	R496	M6	R569	K4	R5F2	J7	R653	G3	ZD01	J5
C460	L5	C538	K7	C5C2	H8	C634	H2	L506	K9	PIN0045	H8	PIN0159	J7	R406	L7	R498	M6	R570	J7	R5F3	J7	R655	L2	ZD02	J5
C461	L5	C539	K7	C5C3	H8	C635	H2	L512	J4	PIN0046	J6	PIN0162	J7	R407	M7	R499	L6	R571	K7	R5F4	J7	R656	G3	ZD03	I5
C462	K6	C540	K7	C5C4	H8	C636	H2	L513	G5	PIN0047	I6	PIN0163	J7	R408	L6	R500	J6	R572	J7	R5F5	L5	R657	G3	ZD04	I5
C463	K5	C541	K9	C5C5	L4	C637	I3	L515	L5	PIN0048	H6	PIN0164	K7	R409	M7	R501	J6	R573	K7	R5F6	L5	R658	K3	ZD05	I5
C464	K5	C542	K7	C5C6	H9	C638	H3	L516	L5	PIN0049	K7	PIN0168	J7	R410	K6	R502	J6	R574	K4	R5F7	H6	R659	J2	ZD06	H4
C465	L5	C543	J7	C5C7	L4	C643	I2	L517	H6	PIN0050	K7	PIN0170	K8	R411	L9	R503	J6	R575	J7	R5M0	I5	R660	H2	ZD41	L9
C466	K5	C544	J7	C5C8	L4	C647	I2	L518	H6	PIN0051	K7	PIN0171	K8	R412	L7	R504	J6	R576	K4	R5M1	H5	R661	I2	ZD601	I2
C467	K6	C545	J6	C5C9	H9	C651	K2	L519	J6	PIN0054	I8	PIN0172	K9	R413	M6	R505	J6	R577	K4	R5M2	H5	R662	I2	ZD602	I2
C468	K6	C546	J7	C5D0	K4	C652	H3	L520	L4	PIN0055	J7	PIN0173	K9	R414	L8	R506	J6	R578	K7	R5M3	H5	R663	K2	ZD603	I2
C469	K6	C547	J6	C5D1	K5	C655	J2	L521	J6	PIN0056	I8	PIN0174	K9	R415	M9	R507	I5	R579	J7	R5M4	I5	R664	K2	ZD604	I2
C470	K6	C548	J7	C5D2	L5	C659	K2	L524	H6	PIN0058	J6	PIN0175	K9	R416	L8	R508	L7	R580	J7	R5M5	H5	R665	L2	ZD605	K2
C471	K6	C549	J6	C5D3	J4	C663	L2	L527	L5	PIN0059	I8	PIN0176	K9	R417	L8	R509	I5	R581	J7	R5M6	H5	R666	J2	ZD606	K2
C472	K6	C550	J6	C5D4	K5	C690	K3	L528	L5	PIN0060	J7	PIN0206	H8	R418	L8	R510	I6	R582	J7	R5M7	H3	R667	H2	ZD607	K2
C473	K6	C551	J7	C5D5	K5	C691	M3	L529	K4	PIN0061	J8	PIN0208	H8	R419	L8	R511	I6	R583	J7	R5M8	H4	R668	H2	ZD608	K2
C474	L9	C552	J7	C5D6	L4	CN401	L9	L530	L5	PIN0062	H7	PIN0210	H8	R420	M7	R512	H6	R584	J7	R5M9	H4	R669	K3	ZD609	J2
C477	L7	C553	H9	C5D7	K4	CN402	M7	L531	L4	PIN0063	G6	PIN0213	H4	R421	L7	R513	I5	R585	K7	R600	H3	R670	M3	ZD610	J2
C478	L6	C554	H8	C5D8	H6	CN502	H3	L532	J6	PIN0064	J3	PIN0214	H4	R422	L6	R514	I6	R586	K7	R601	L2	R671	M3	ZD611	J2
C479	L6	C556	H7	C5D9	L5	CN503	M4	L533	L4	PIN0065	J3	PIN0217	H5	R424	L8	R515	I6	R587	J7	R602	G3	R672	M2	ZD612	J2
C480	L6	C557	H7	C5M1	H4	CN504	H9	L534	K4	PIN0066	J3	PIN0218	H6	R425	L8	R516	H6	R588	J6	R603	L2	R673	M2		
C481	L6	C558	I8	C5M2	M9	CN601	M3	L535	H8	PIN0067	J3	PIN0220	H3	R426	K7	R517	I8	R589	J7	R604	H5	R674	M2		
C482	L6	C559	J9	C5M3	I5	CN602	M2	L536	I4	PIN0068	J3	PIN0221	H3	R427	L7	R518	J8	R590	J6	R605	J3	R676	M2		
C497	L9	C560	J8	C5M4	H5	D402	M9	L537	H3	PIN0069	I3	PIN0223	H3	R429	L8	R519	J8	R591	J6	R606	J3	R677	M2		
C498	L8	C561	H7	C5M5	H5	D404	M7	L538	H3	PIN0070	H2	PIN0227	L5	R431	L9	R520	I5	R592	J7	R607	J3	R678	M3		
C499	L9	C562	I9	C5M6	G5	D405	L7	L539	G3	PIN0073	I9	PIN0229	M6	R432	M6	R521	J4	R594	J6	R608	J3	R679	K3		
C500	J6	C563	I8	C5M7	H3	D501	H6	L540	I6	PIN0074	I9	PIN0230	L7	R433	L9	R522	J5	R596	G6	R609	J3	R680	I3		
C501	J6	C564	H7	C5M8	G3	D600	M3	L541	J8	PIN0075	I8	PIN0232	H3	R434	L8	R523	J5	R597	G7	R610	I3	R681	J2		
C502	J6	C565	H7	C5M9	M5	F600	I3	L542	H5	PIN0076	H8	PIN0233	H5	R435	L9	R524	I8	R598	J6	R611	I3	R682	K3		
C503	J6	C566	H7	C600	I3	IC401	L6	L543	H8	PIN0079	H6	PIN0235	L8	R436	L9	R525	I8	R599	J6	R612	I3	R683	I3		
C504	J6	C567	J7	C601	I3	IC402	L9	L544	K4	PIN0080	K6	PIN0237	L7	R437	L8	R526	I5	R5A0	J5	R613	I4	R684	I3		
C505	J5	C568	J8	C602	I2	IC404	L8	L545	K5	PIN0081	K6	PIN0241	J3	R438	L8	R527	I4	R5A1	I6	R614	I3	R685	H2		

• MIC P.C BOARD DIAGRAM



• SMPS P.C BOARD DIAGRAM

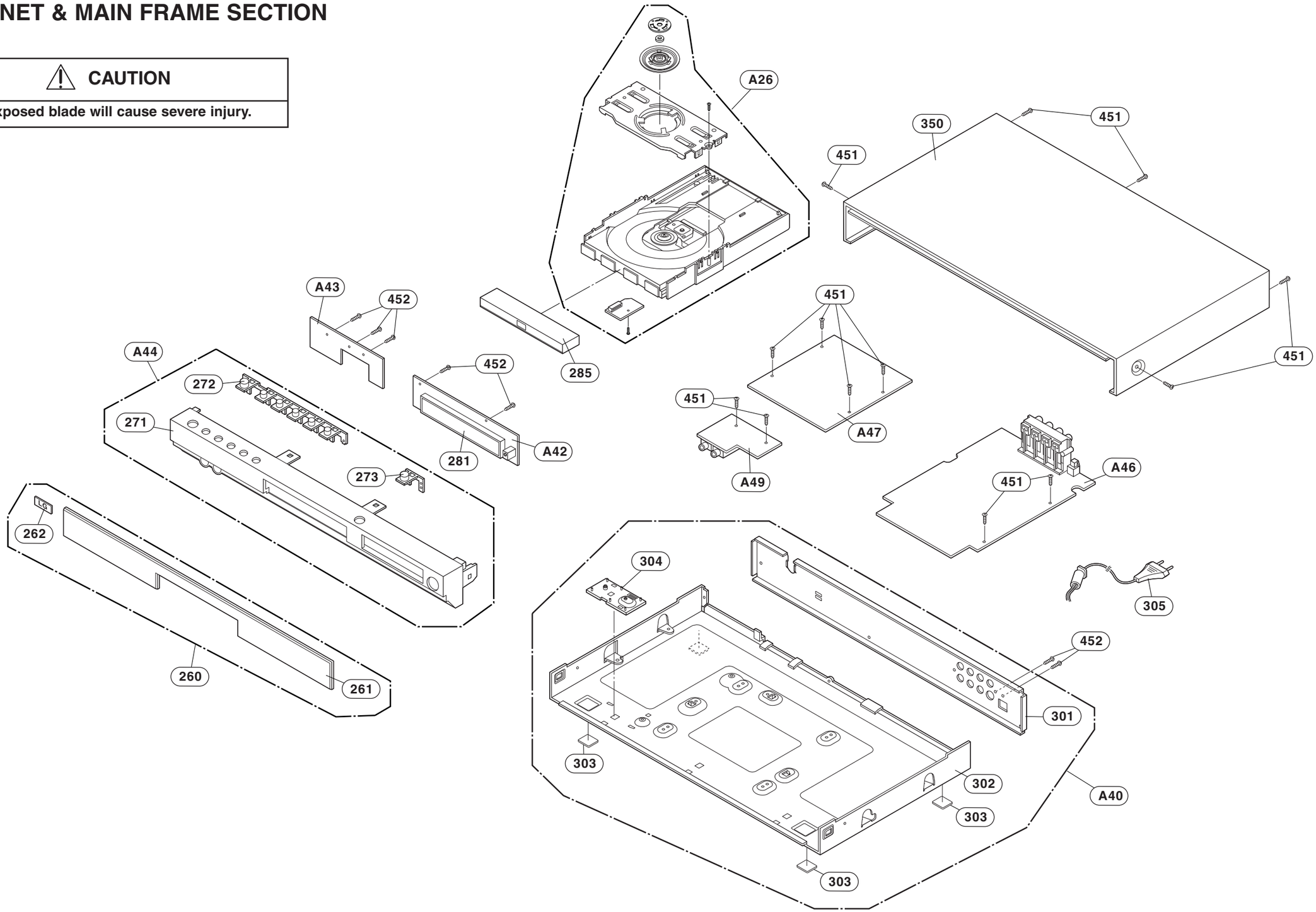


BC101	D5	D104	D5	R101	D6
BD101	C6	D105	C4	R102	C5
C101	B4	D106	A3	R103	E5
C102	B5	D107	E3	R104	C5
C103	E5	D108	E3	R107	D5
C104	E3	D109	C3	R108	F5
C105	C5	D110	E3	R109	E5
C106	F4	D111	F2	R110	F5
C107	C6	F102	F3	R112	D5
C108	D6	F103	E3	R114	E2
C109	C2	F104	D2	R115	F2
C110	F5	FH101	A5	R116	F2
C112	B2	FH102	A5	R120	D1
C113	F4	IC101	D5	R121	D2
C115	C4	IC102	F4	R122	D2
C116	B3	IC103	D3	R123	A2
C118	A2	IC104	F3	R124	F3
C119	E5	IC105	A3	R125	F3
C120	E2	IC106	B2	R126	F3
C121	E2	J101	F3	R127	F2
C122	E3	L101	B5	R128	G3
C123	B3	L102	C2	R129	F3
C124	A3	L103	B3	R130	C2
C126	E5	L105	B3	R131	F2
C128	F3	P101	B1	R132	F2
C130	A2	P102	D1	R140	A2
C131	B2	PW101	A6	R142	E2
C137	A3	Q101	F3	R145	C1
D100	D5	Q102	F2	T101	D4
D101	C5	Q107	D2	V101	B4
D102	D3	Q108	D1	ZD101	F3
D103	C3	R100	B4	ZD102	F4

SECTION 3. EXPLODED VIEWS

• CABINET & MAIN FRAME SECTION

> **⚠ CAUTION**
>
> **Exposed blade will cause severe injury.**



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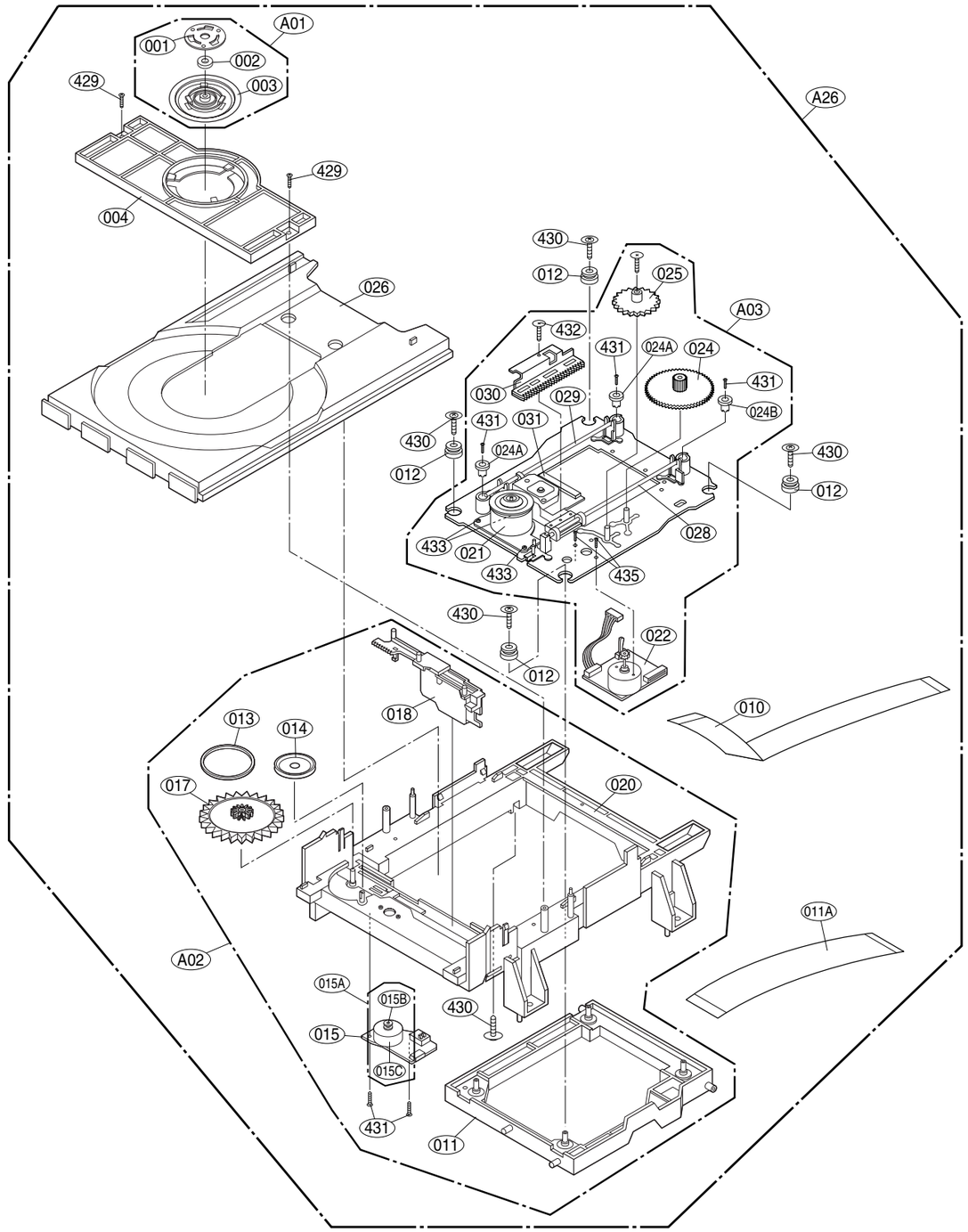
• Deck Mechanism Exploded View



LOCA. NO.	PART NO.	DESCRIPTION	SPECIFICATION
A26	6721RJ0372E	DECK ASSEMBLY,VIDEO	DECK/MECHA DP-7 (43MM)-ESS-MIT
A01	4861R-0016B	CLAMP ASSEMBLY	DISC DP7 - SH
A02	3041R-M009D	BASE ASSEMBLY	MAIN DP-7 (43) HZ
A03	3041R-M002M	BASE ASSEMBLY	SLED DP-7 (MIT VA9)-ESS-HZ
001	3300R-0547A	PLATE	CLAMP
002	5016H-1016B	MAGNET	CLAMP(LDM-R608,10*5,1*1.5T)
003	4860R-0021A	CLAMP	UPPER DP7
004	4930R-0365A	HOLDER	CLAMP DP7
010	6850R-GF10B	CABLE,FLAT	P=1.0 FFC UL2896(0.05X0.65) 6
011	3210R-M001A	FRAME	UP/DOWN DP7 MOLD
011A	6850R-JW24Y	CABLE,FLAT	P=1.0 FFC UL2896(0.035X0.7) 23
012	5040R-0075D	RUBBER	DAMPER DP7 (YAMAUCHI 30)
013	4400H-1009A	BELT	GM-RT1332A
014	4470R-0055A	GEAR	PULLEY
015	6871R-9248D	PWB(PCB) ASSEMBLY,TOTAL	DP-7 LOADING - HZ
015A	4681R-A003D	MOTOR ASSEMBLY	DECK/MECHA LOADING DP-7 HZ
015B	4560R-0008A	PULLEY	MOTOR
015C	4680R-E007A	MOTOR(MECH)	FEEDING BCZ3B01 SANKYO FOR DVD
017	4470R-0056A	GEAR	LOADING
018	4974R-0046A	GUIDE	UP/DOWN(DP-7)
020	3040R-M005A	BASE	MAIN (DP7-43MM) MOLD
021	4680R-C010A	MOTOR(MECH)	SPINDLE JCL9B78 SANKYO FOR DVD
022	4681R-B005D	MOTOR ASSEMBLY	DECK/MECHA FEEDING DP-7 HZ
022A	4680R-E008A	MOTOR(MECH)	FEEDING RF-300EA-1D390 MABUCHI
023	4470R-0119A	GEAR	FEED MOTOR
024	4470R-0124A	GEAR	PINION DP7
024A	5006R-0040A	CAP	SKEW (T) DP7
024B	5006R-0039A	CAP	SKEW (R) DP7
025	4470R-0122A	GEAR	MIDDLE A DP7
026	3390R-0015A	TRAY	DISC DP7
027	4470R-0123A	GEAR	MIDDLE B DP7
028	4370R-0083A	SHAFT	DECK/MECHA DP7 OTHER PU-T
029	4370R-0075A	SHAFT	PU
030	4471R-0010A	GEAR ASSEMBLY	RACK DP7
031	6716DPH005B	PICK UP,DVD	PVR-502W R52 0219 MITSUMI PLAY
032	6871R-9243D	PWB(PCB) ASSEMBLY,TOTAL	DP7 FEEDING - HZ
430	1SZZR-0046A	SCREW,DRAWING	+ 1 D2.0 L6.0 SWRCH16A/FZY
431	1SZZH-1007B	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/ZNBK 4MM 1
433	1SZZR-0050A	SCREW,DRAWING	+ 1 D2.0 L4.5 SWRCH16A/ZNY S-T
434	1SZZR-0023B	SCREW,DRAWING	+ 1 D1.7 L6.0 SWRCH16A/FZY RAC
435	1SZZR-0011A	SCREW,DRAWING	MACHINE
436	1SZZR-0047A	SCREW,DRAWING	+ 1 D1.4 L4.5 SWRCH16A/FZY TAP