

HITACHI

SM0100



SERVICE MANUAL MANUEL D'ENTRETIEN WARTUNGSHANDBUCH

**AXF100E
AXF100EBS
AXF100UC
AXF100W
AXF100WUN**

CAUTION:

Before servicing this chassis, it is important that the service technician read the "Safety Precautions" and "Product Safety Notices" in this service manual.

ATTENTION:

Avant d'effectuer l'entretien du châssis, le technicien doit lire les «Précautions de sécurité» et les «Notices de sécurité du produit» présentés dans le présent manuel.

VORSICHT:

Vor Öffnen des Gehäuses hat der Service-Ingenieur die „Sicherheitshinweise“ und „Hinweise zur Produktsicherheit“ in diesem Wartungshandbuch zu lesen.

Data contained within this Service manual is subject to alteration for improvement.

Les données fournies dans le présent manuel d'entretien peuvent faire l'objet de modifications en vue de perfectionner le produit.

Die in diesem Wartungshandbuch enthaltenen Spezifikationen können sich zwecks Verbesserungen ändern.



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SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

**MINI COMPONENT HI-FI SYSTEM
September 2000**


ENGLISH

SAFETY PRECAUTIONS

WARNING: The following precautions must be observed.

ALL PRODUCTS

Before any service is performed on the chassis an isolation transformer should be inserted between the power line and the product.

1. When replacing the chassis in the cabinet, ensure all the protective devices are put back in place.
2. When service is required, observe the original lead dressing. Extra precaution should be taken to ensure correct lead dressing in any high voltage circuitry area.
3. Many electrical and mechanical parts in HITACHI products have special safety related characteristics. These characteristics are often not evident from visual inspection, nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified by marking with a  on the schematics and the replacement parts list.
The use of a substitute replacement component that does not have the same safety characteristics as the HITACHI recommended replacement one, shown in the parts list, may create electrical shock, fire, X-radiation, or other hazards.
4. Always replace original spacers and maintain lead lengths. Furthermore, where a short circuit has occurred, replace those components that indicate evidence of overheating.
5. Insulation resistance should not be less than 2M ohms at 500V DC between the main poles and any accessible metal parts.
6. No flashover or breakdown should occur during the dielectric strength test, applying 3kV AC or 4.25kV DC for two seconds between the main poles and accessible metal parts.
7. Before returning a serviced product to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock. The service technician must make sure that no protective device built into the instrument by the manufacturer has become defective, or inadvertently damaged during servicing.

CE MARK

1. HITACHI products may contain the CE mark on the rating plate indicating that the product contains parts that have been specifically approved to provide electromagnetic compatibility to designated levels.
2. When replacing any part in this product, please use only the correct part itemised in the parts list to ensure this standard is maintained, and take care to replace lead dressing to its original state, as this can have a bearing on the electromagnetic radiation/immunity.

PICTURE TUBE

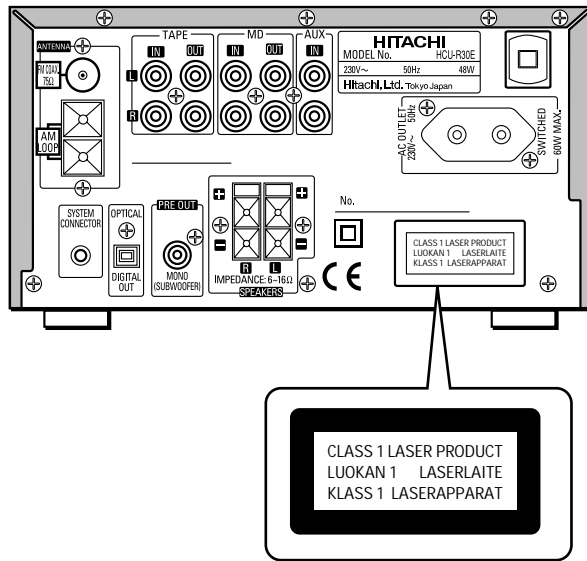
1. The line output stage can develop voltages in excess of 25kV; if the E.H.T. cap is required to be removed, discharge the anode to chassis via a high value resistor, prior to its removal from the picture tube.
2. High voltage should always be kept at the rated value of the chassis and no higher. Operating at higher voltages may cause a failure of the picture tube or high voltage supply, and also, under certain circumstances could produce X-radiation levels moderately in excess of design levels. The high voltage must not, under any circumstances, exceed 29kV on the chassis (except for projection Televisions).
3. The primary source of X-radiation in the product is the picture tube. The picture tube utilised for the above mentioned function in this chassis is specially constructed to limit X-radiation. For continued X-radiation protection, replace tube with the same type as the original HITACHI approved type
4. Keep the picture tube away from the body while handling. Do not install, remove, or handle the picture tube in any manner unless shatterproof goggles are worn. People not so equipped should be kept away while picture tubes are handled

LASERS

If the product contains a laser avoid direct exposure to the beam when the cover is open or when interlocks are defeated or have failed.

- The caution labels on laser usage

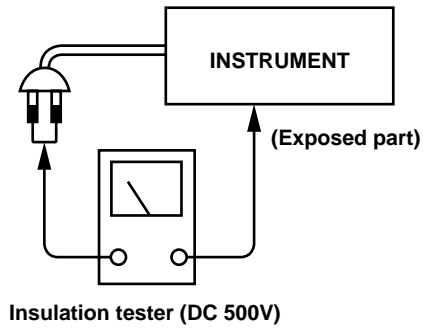
- Notices de précautions d'emploi du laser



Check that exposed parts are acceptably insulated from the supply circuit before returning the repaired instrument to the customer.

- Checking method

Measure the resistance value between the both poles of attachment cup (Power supply plug) and the exposed parts (Parts such as Knob, Cover, etc. where the customer is easy to touch.) and check that the resistance value is 500 kohms or more.



SAFETY PRECAUTIONS

The following precautions should be observed when servicing.

1. Since many parts in the unit have special safety-related characteristics, always use genuine Hitachi's replacement parts. Especially critical parts in the power circuit block should not be replaced with other makers. Critical parts are marked with \triangle in the circuit diagram.
2. Before returning a repaired unit to the customer, the service technician must thoroughly test the unit to ascertain that it is completely safe to operate without danger of electrical shock.

SPECIFICATIONS**• RECEIVER SECTION**

Tuner Range	: FM: 87.5 - 108.0 MHz (0.1 MHz step) – UC
	: FM: 87.50 - 108.00 MHz (0.05 MHz step) – E, EBS, W, WUN
	: MW: 520 - 1,710 kHz (10 kHz step) – UC, W, WUN
	: MW: 522 - 1,611 kHz (9 kHz step) – E, EBS, W, WUN
	: LW: 153 - 281 kHz (1 kHz step) – E, EBS

• CD SECTION

Sampling Frequency	: 44.1 kHz
Laser	: Semiconductor laser

• TIMER SECTION

System	: Digital Quartz Clock
Display Format	: 24-hour cycle – E, EBS, W, WUN
	: 12-hour cycle – UC
Timer Accuracy	: Within 60 seconds at monthly rate in normal room temperature

• GENERAL SPECIFICATIONS

Power Supply	: AC 110 - 127 V/220 - 240 V, 50/60 Hz – W, WUN
	: AC 120 V, 60 Hz – UC
	: AC 230 V, 50 Hz – E, EBS
Power Consumption	: 48 W (ECO-ON mode: less than 1 W) – E, EBS, W, WUN
	: 1.1 A include AC outlet (ECO-ON mode: less than 1 W) – UC
Rated Output Power	: 30 W + 30 W (6 ohms, THD 10%)
Inputs/Outputs	: MD, TAPE, AUX, Optical Digital Out, Pre out, Headphone, System Connector

• SPEAKER SECTION

System	: 2 Way Bass Reflex Speaker System
Speaker Unit	: Woofer: 10 cm ∞ 1, Tweeter: 5 cm ∞ 1
Impedance	: 6 ohms

• DIMENSIONS

HCU-R30 Unit	: 210 (W) ∞ 120 (H) ∞ 325 (D) mm
Speaker Unit	: 150 (W) ∞ 275 (H) ∞ 227 (D) mm

• WEIGHT

HCU-R30 Unit	: 4.4 kg
Speaker Unit	: 3.0 kg (1 speaker)

• ACCESSORY SUPPLIED

: FM Antenna, AM LOOP Antenna, Remote Control (RB-AXF3), Battery, Edison plug adapter (For W, WUN only)

* Specifications are subject to change for performance improvement without notice.

SERVICE POINTS

1 Removal of Top Cover

- (1) Remove 4 screws 1 from each side.
- (2) Remove 4 screws 2 from the rear plate.

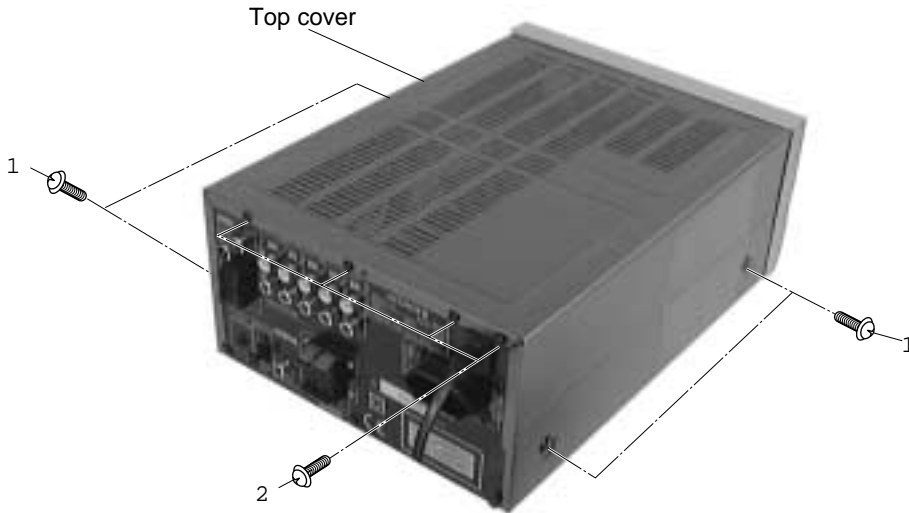
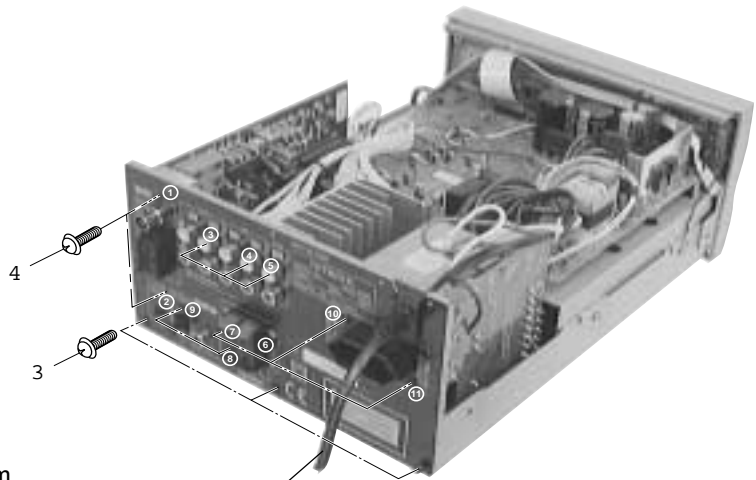


Fig. 1

2 Removal of Rear Plate and Power Cord

- (1) Remove 11 screws 3 and 4 from the rear plate.
- (2) Detach the power cord.



Power cord

Fig. 2

3 Removal of Tuner P.W.B Board

- (1) Remove 2 screws 5.
- (2) Pull the tuner P.W.B gently to detach from connector A of the main PCB.

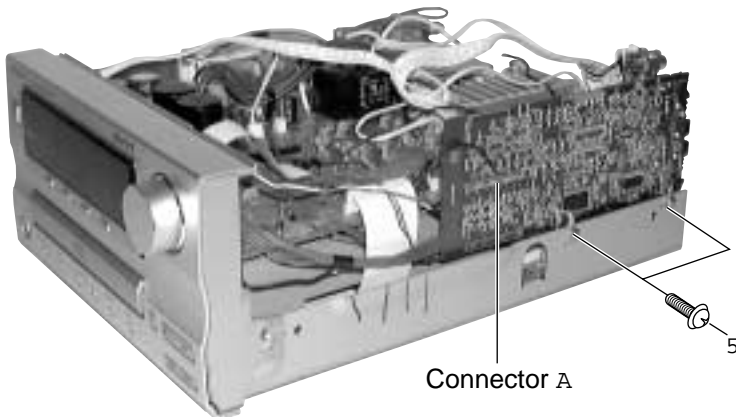
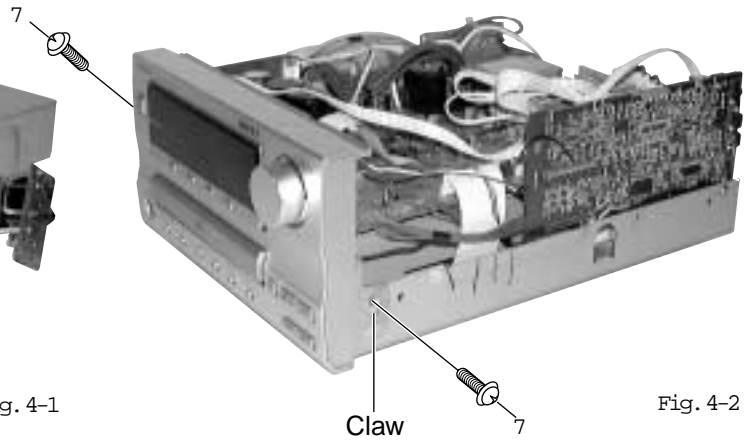
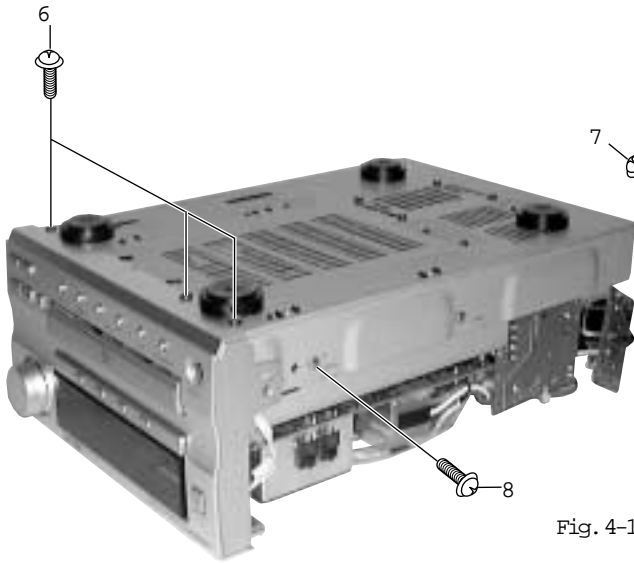


Fig. 3

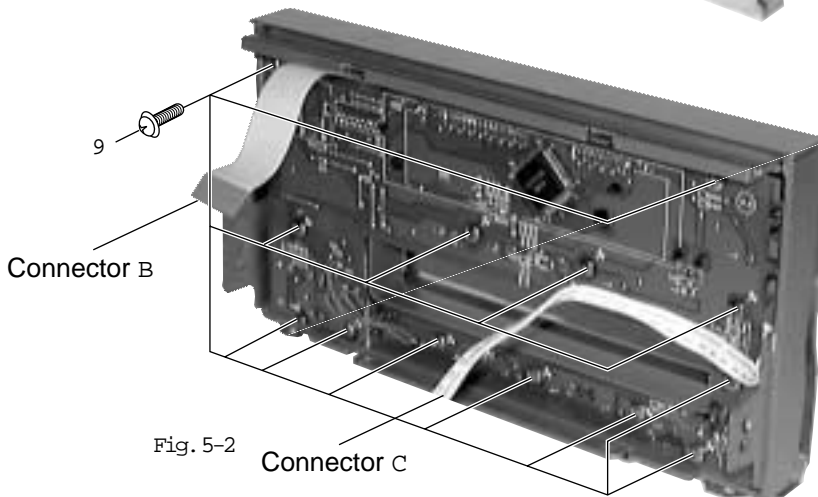
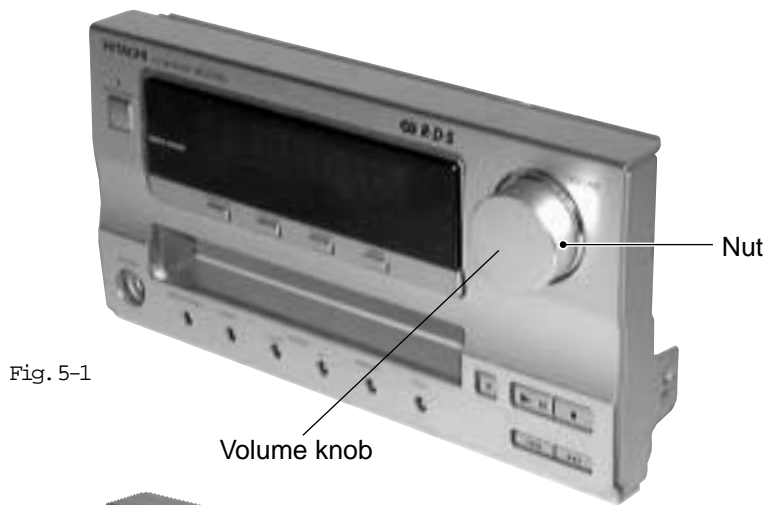
4 Removal of Front Panel

- (1) Detach connector B & C (Refer to Fig. 5-2)
- (2) Remove 3 screws 6 from base of front panel.
- (3) Remove 1 screw 7 from each side and screw 8.
- (4) Release the claw of the Inner panel from each side.



5 Removal of Front P.W.B Board

- (1) Remove the volume knob to detach the nut.
- (2) Remove 13 screws 9.



6. Removal of Main P.W.B Board and Power Transformer

- (1) Detach the connector D to K.
- (2) Remove 4 screws ! from base of the plate and 4 screws " .
- (3) Press and push downwards the P.W.B. support.
- (4) Gently pull the main P.W.B. upwards and remove the Power Transformer.

No.	CONNECTOR
D	CN702
E	CN701
F	PG301
G	PG302
H	PG501
I	PG601
J	CN501
K	PG505
L	PG602

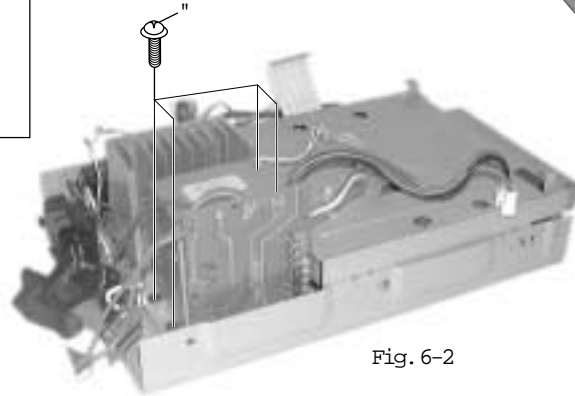
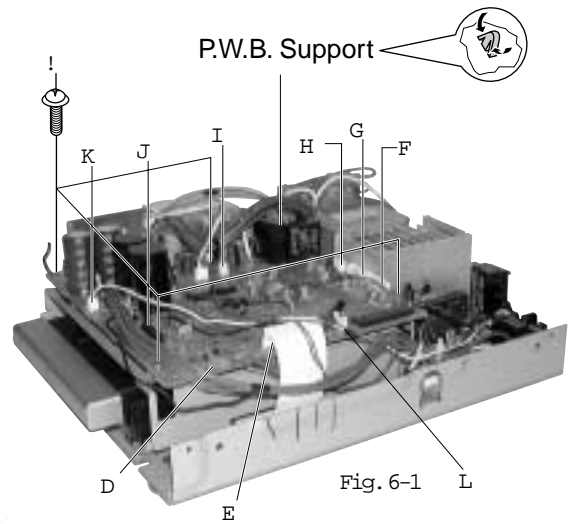


Fig. 6-2

7. Removal of Amp P.W.B. Board

- (1) Remove 1 screw #.
- (2) Remove 4 screws \$ from base of chassis.

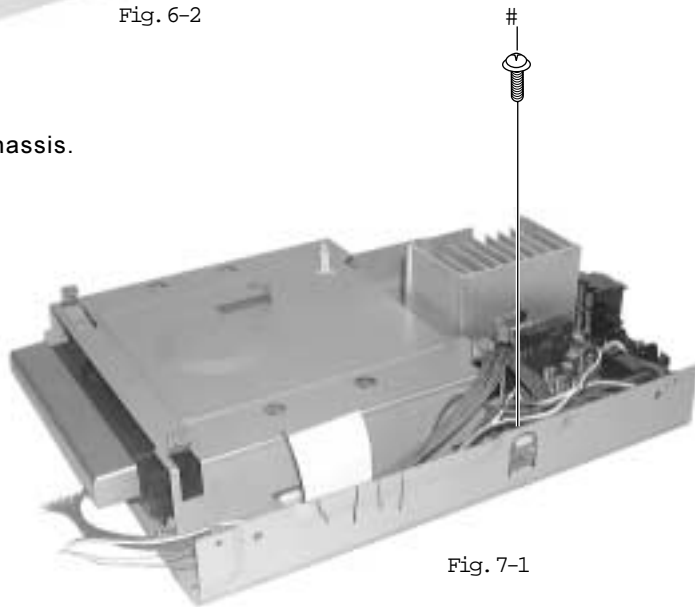


Fig. 7-1

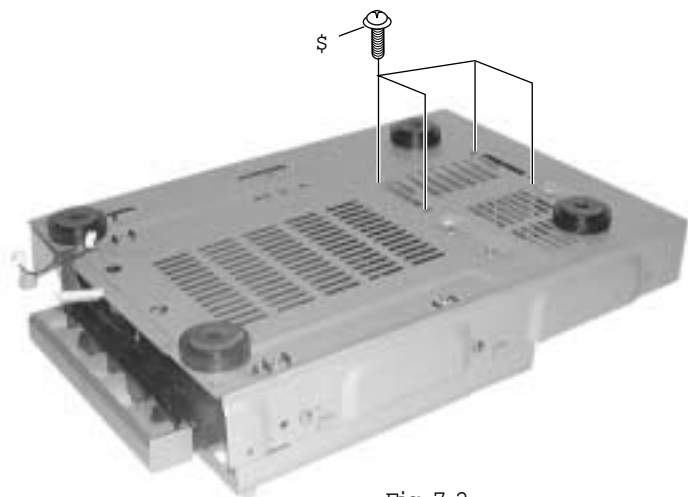


Fig. 7-2

8 Removal of P.W.B. Holder

(1) Remove 3 screws $\%$ to detach the P.W.B. Holder.

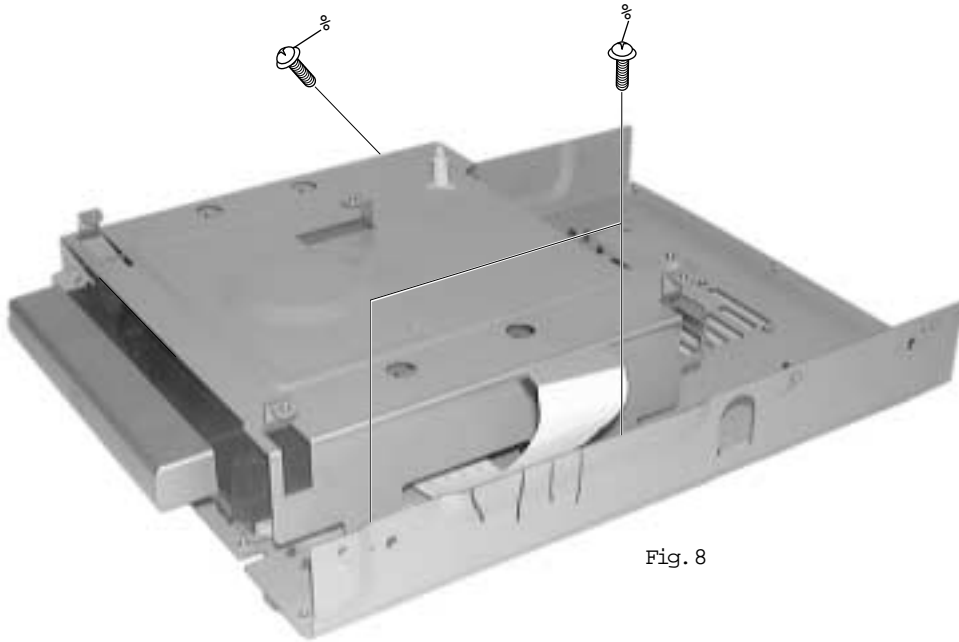


Fig. 8

9 Removal of CD Mechanism Assembly

(1) Remove 4 screws $\&$ and pull up the CD mechanism.

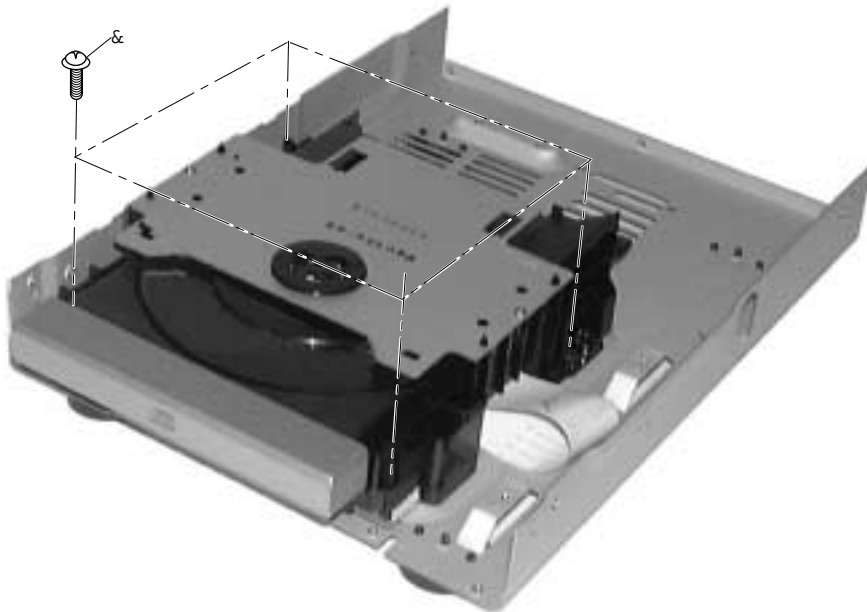
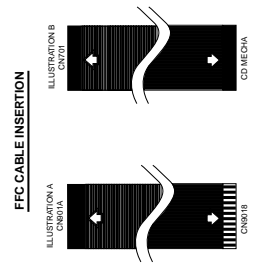
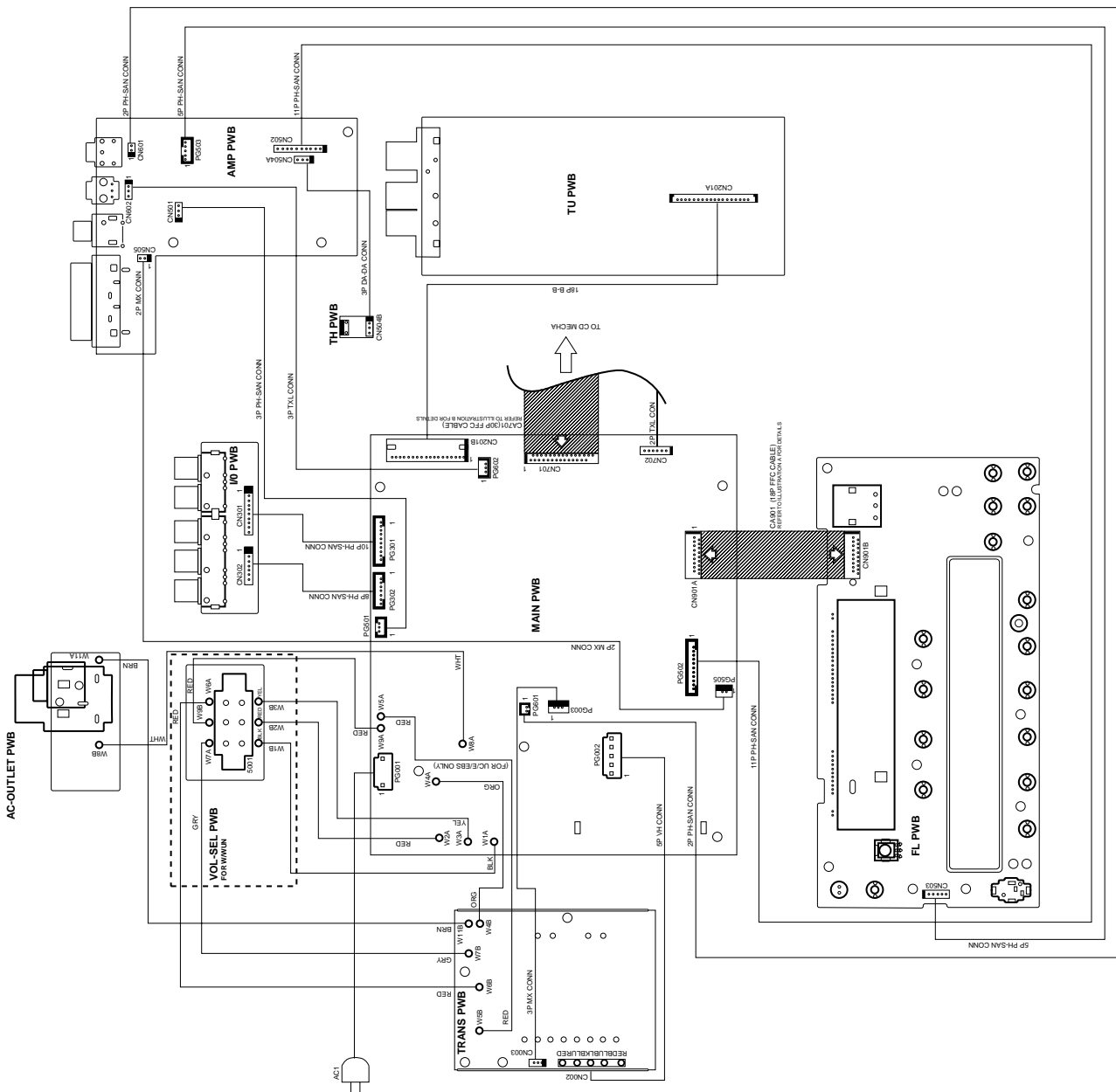


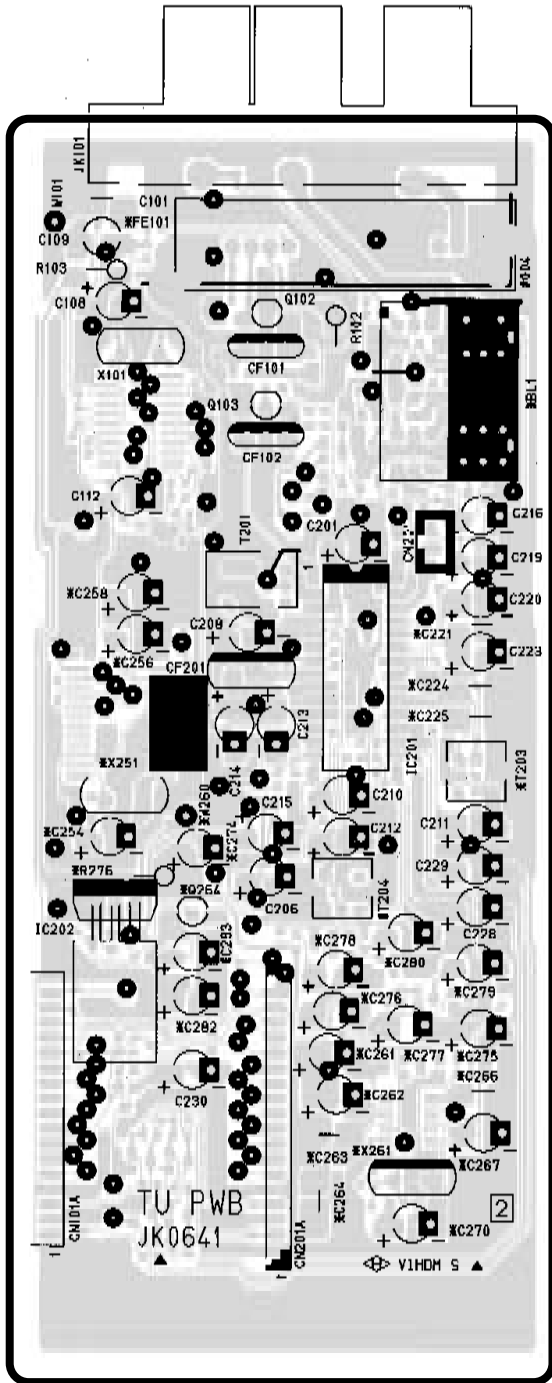
Fig. 9

WIRING DIAGRAM

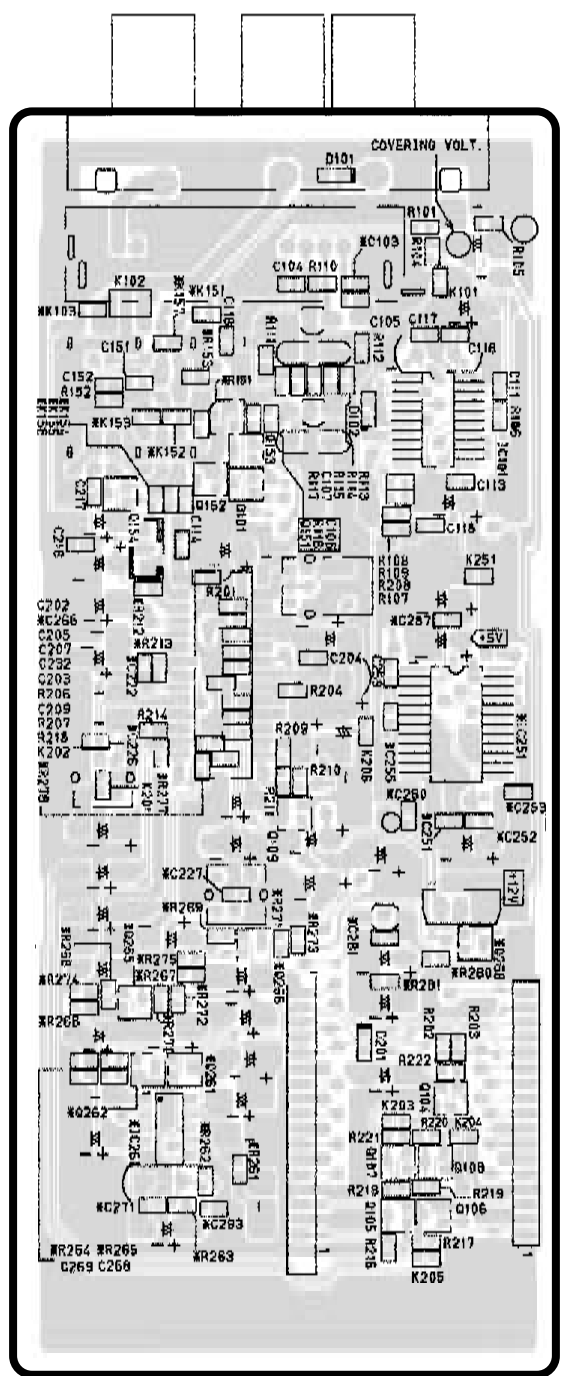


PRINTED WIRING BOARD

Component Side

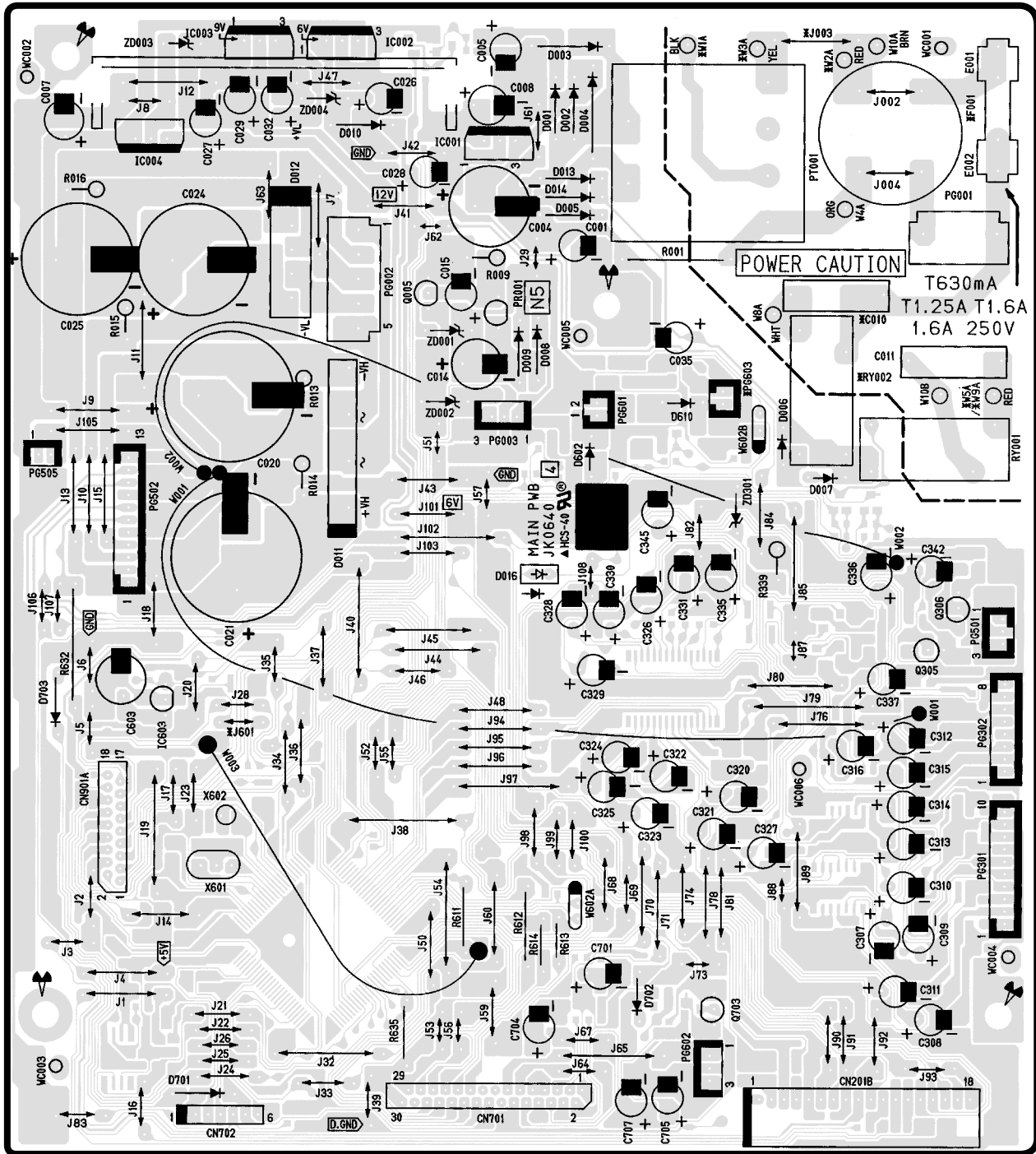


Soldering Side



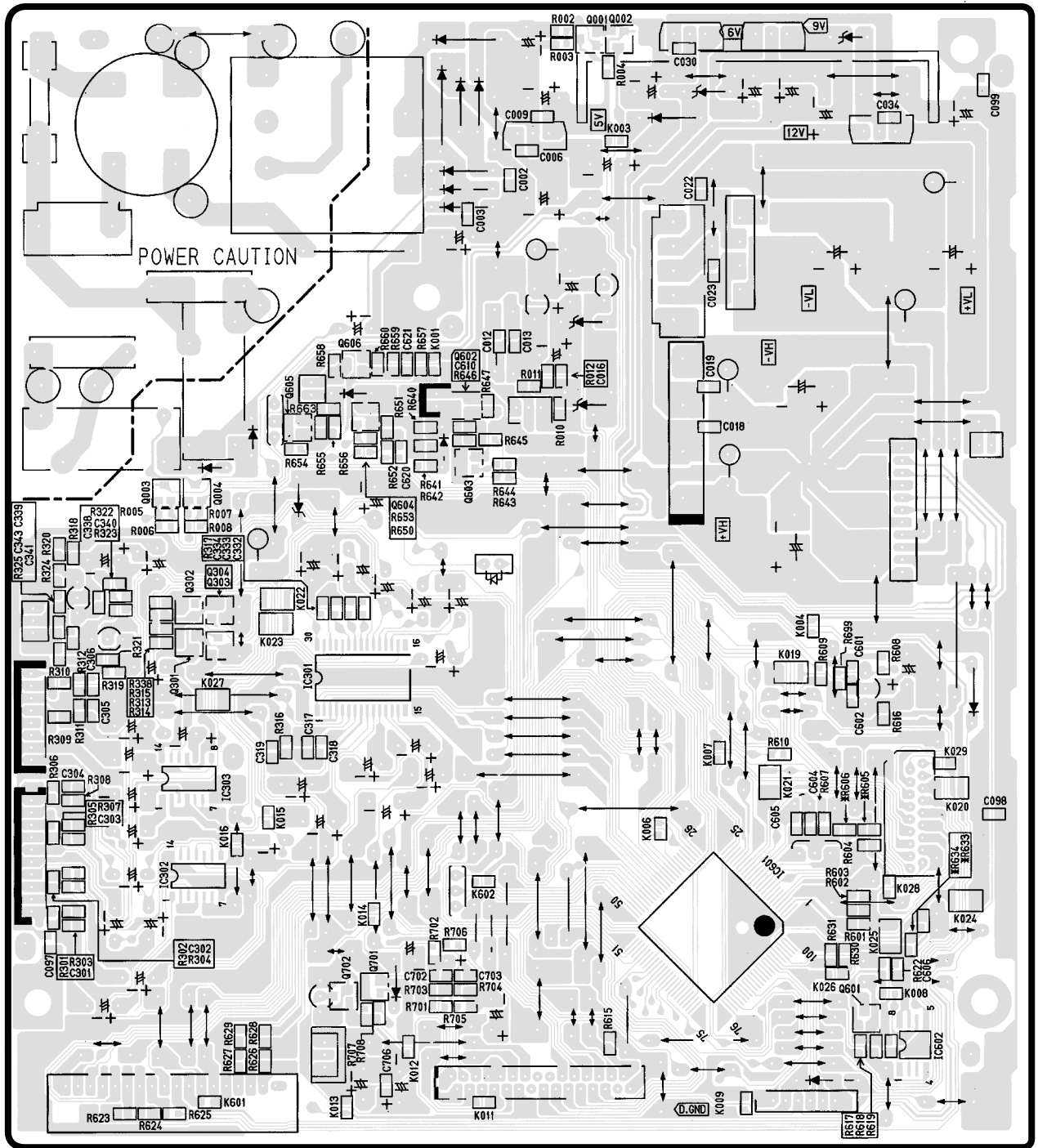
TU PWB

Component Side



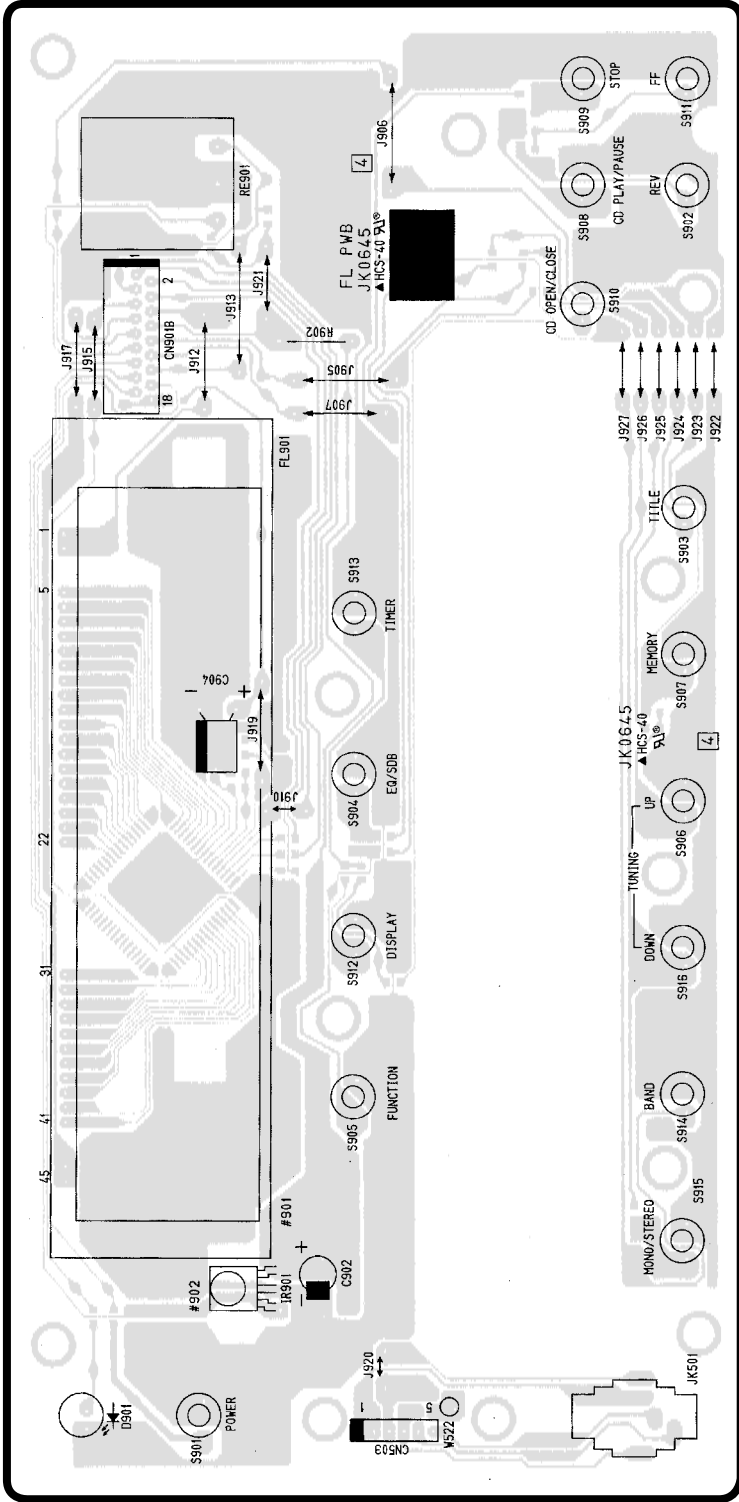
MAIN PWB

Soldering Side

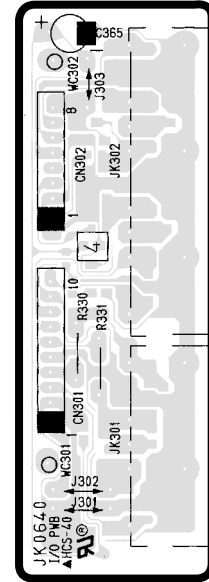


MAIN PWB

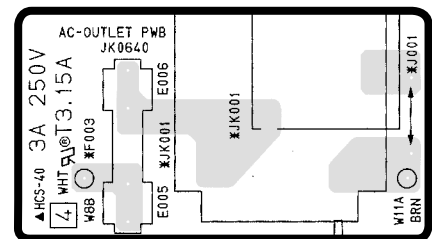
Component Side



FL PWB

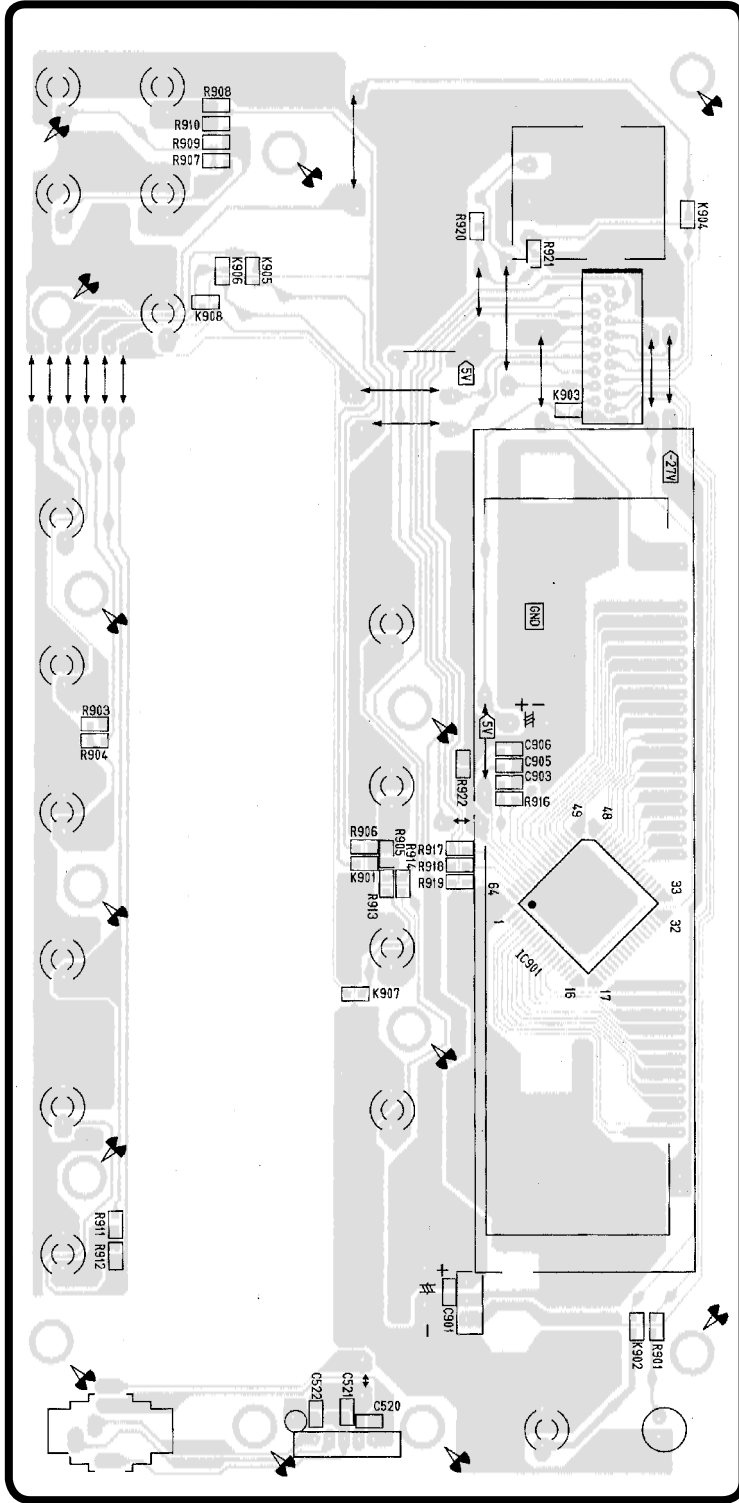


I/OP.W.B.

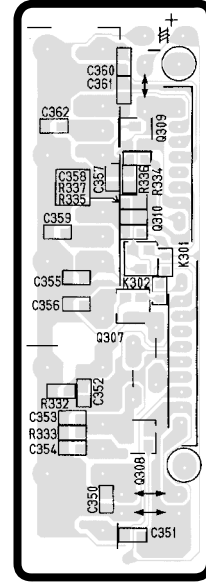


AC-OUTLET P.W.B.

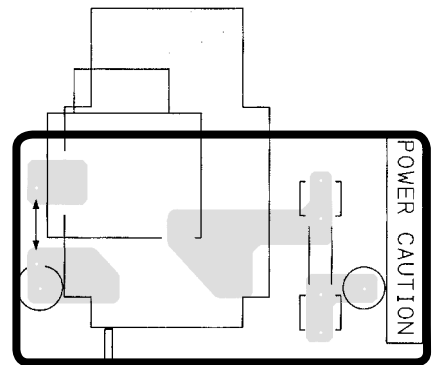
Soldering Side



FL PWB

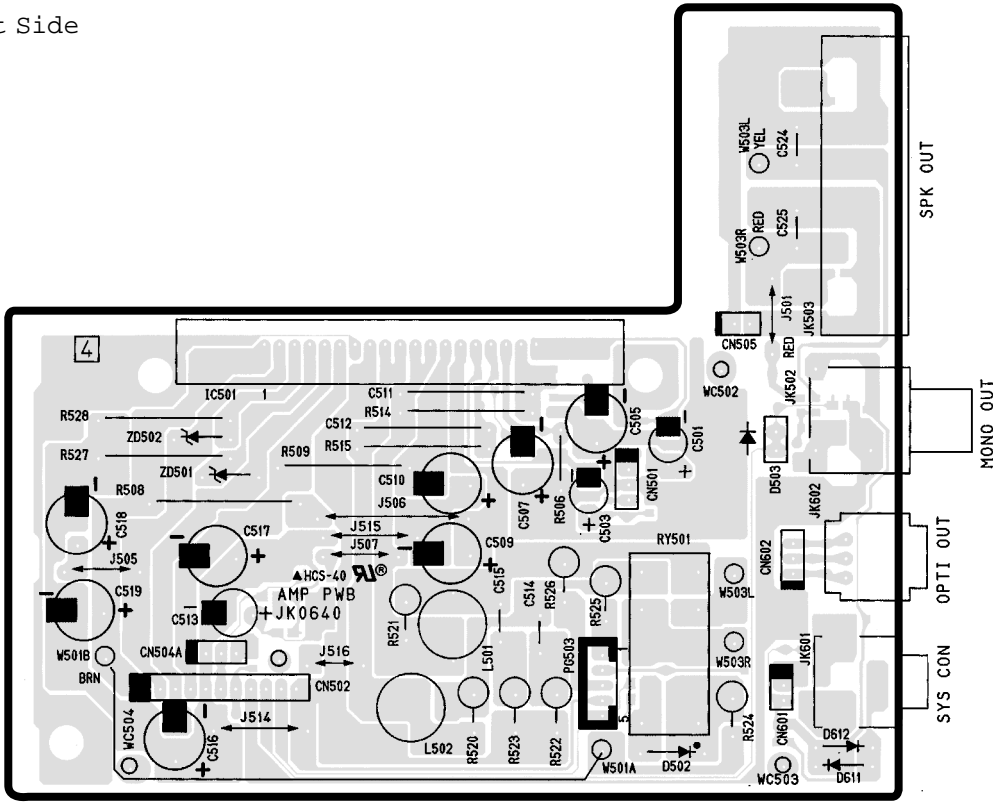


I/O P.W.B.

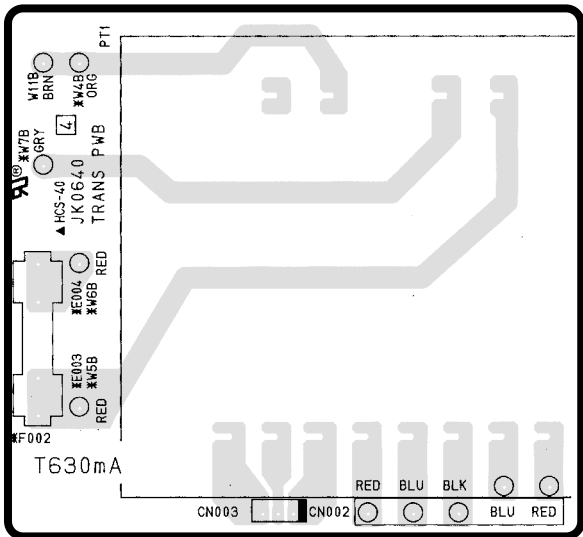


AC OUTLET P.W.B.

Component Side



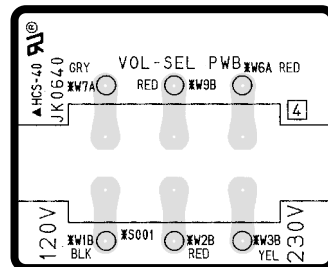
AMP PWB



TRANS P.W.B.

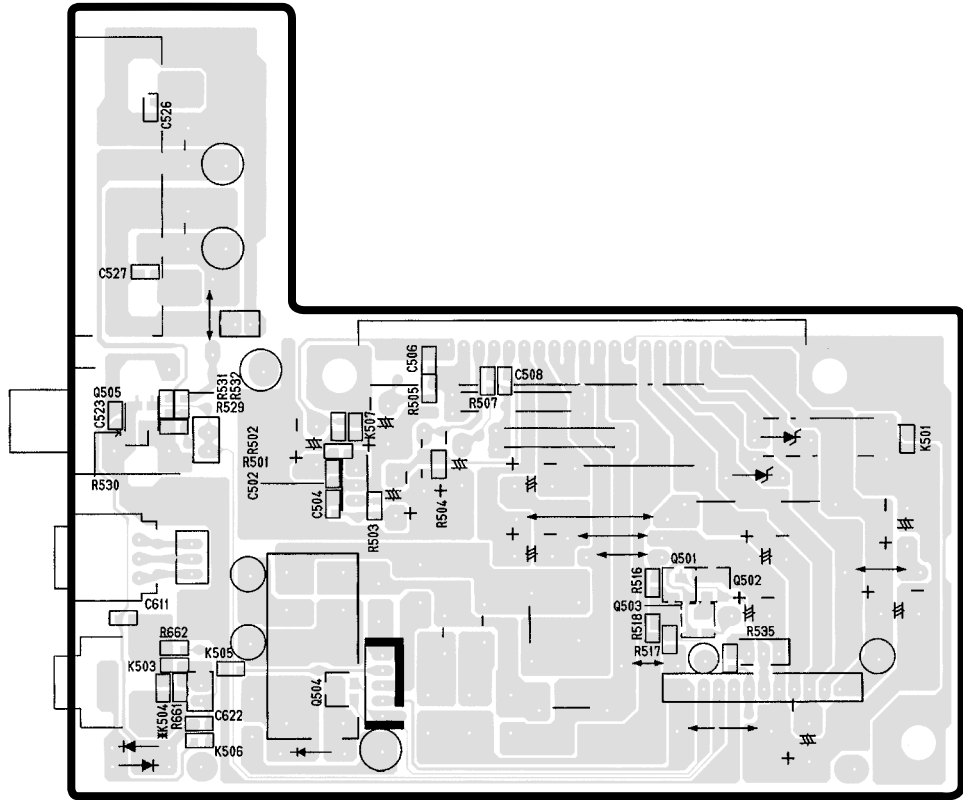


TH P.W.B.

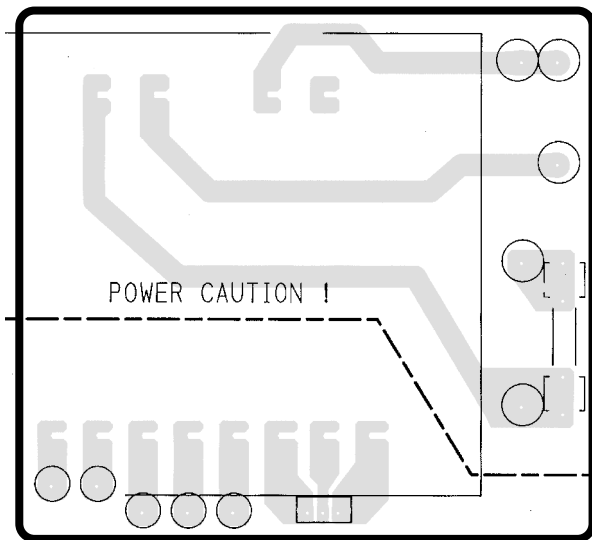


VOL-SEL P.W.B.

Soldering Side



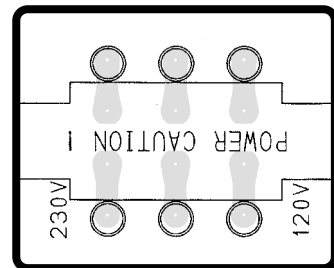
AMP PWB



TRANS P.W.B.



TH P.W.B.



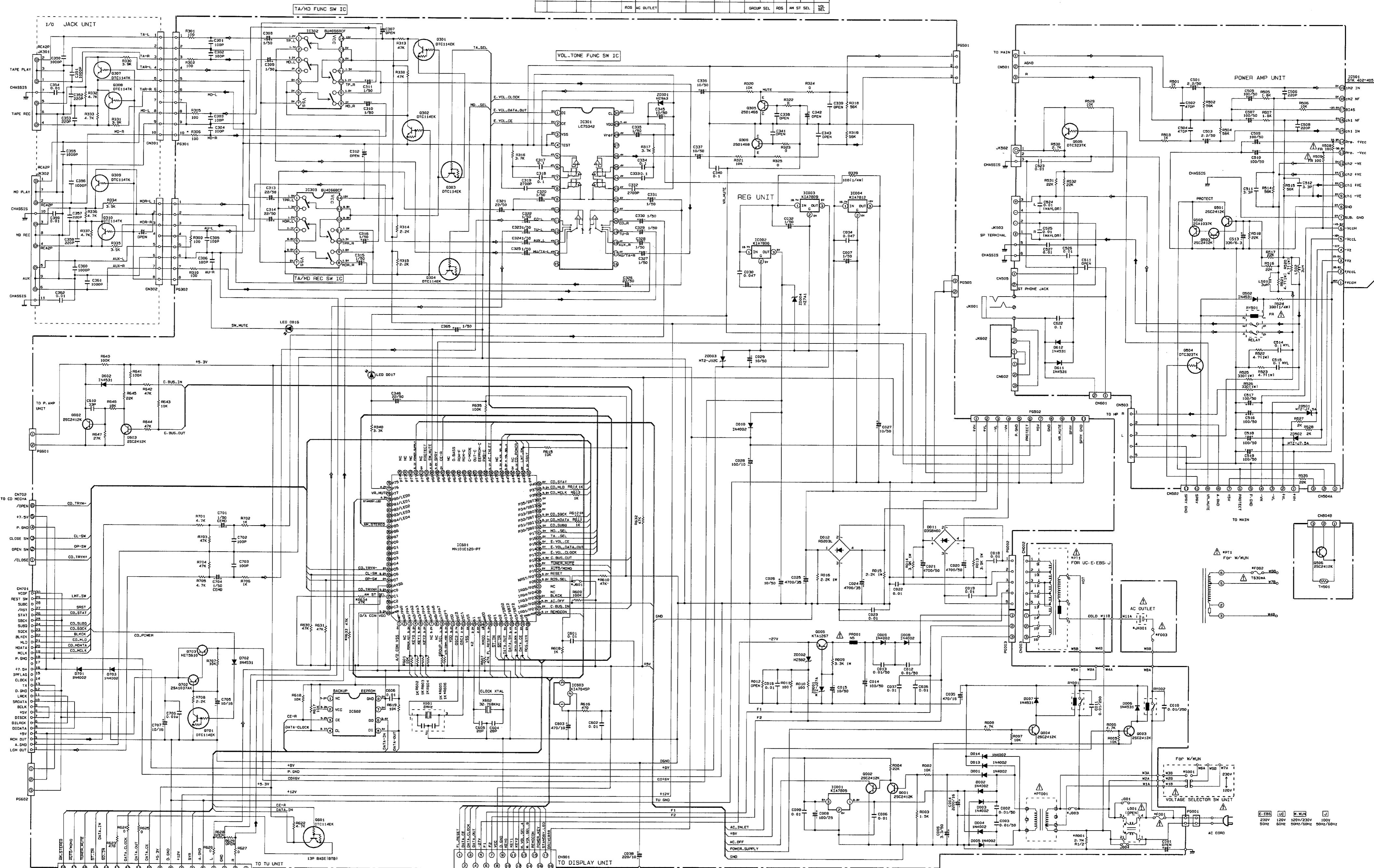
VOL-SEL P.W.B.

CIRCUIT DIAGRAM

MAIN/POWER Circuit

DIFFERENCE TABLE

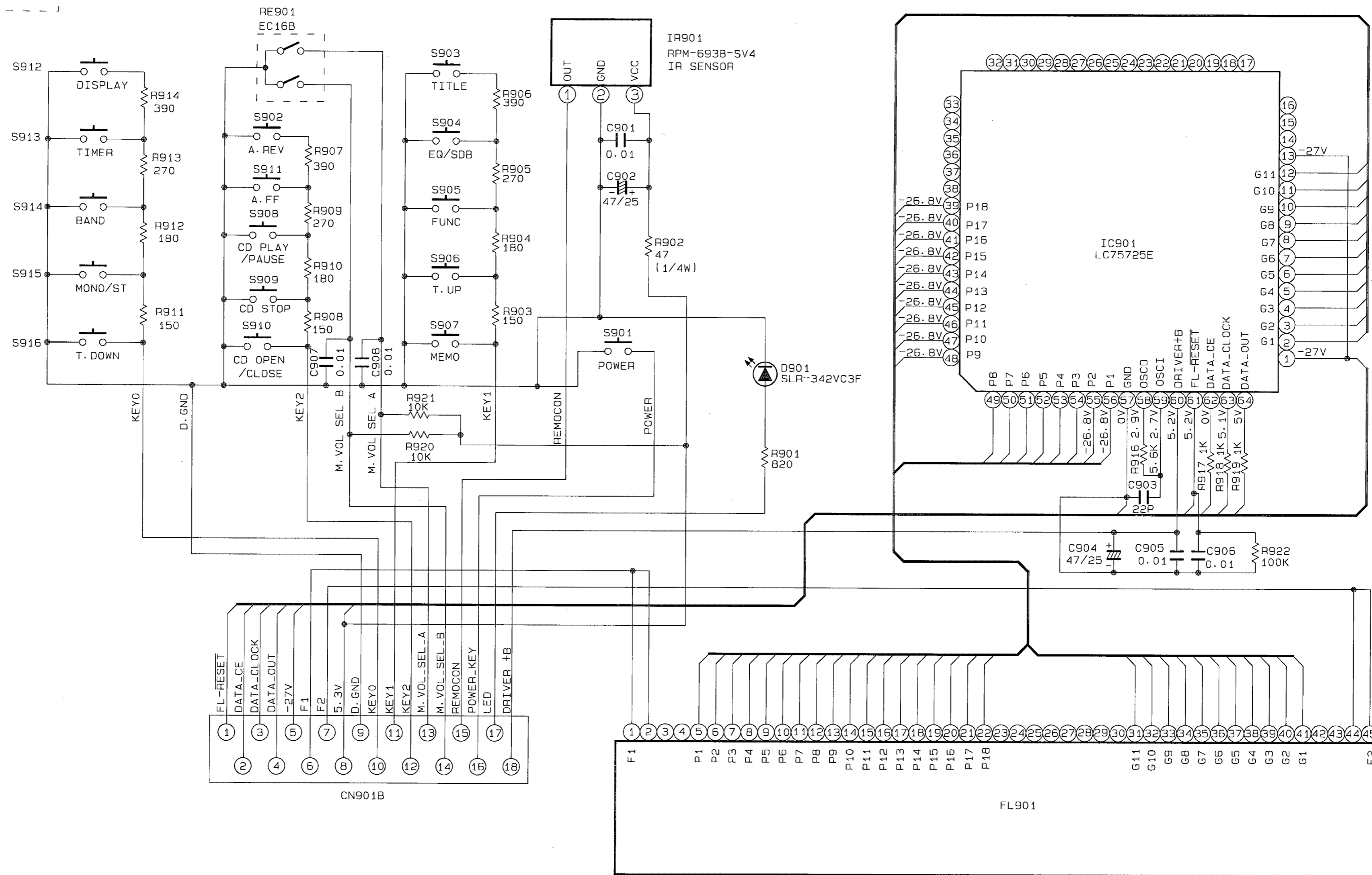
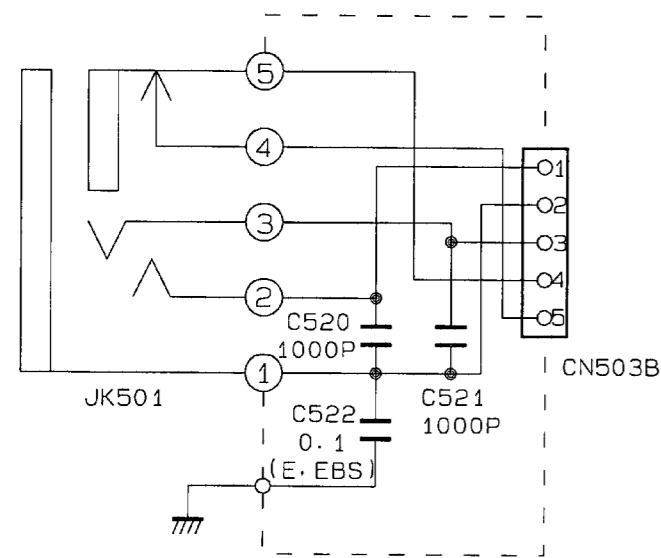
UC	F001	F002	F003	J601	J602	PT001	PT1	R001	R002	R003	R004	R005	R006	R007	R008	R009	R010	R011	R012	R013	R014	R015	R016	R017	R018	R019	R020	R021	R022	R023	R024	R025	R026	R027	R028	R029	R030	R031	R032	R033	R034	R035	R036	R037	R038	R039	R040	R041	R042	R043	R044	R045	R046	R047	R048	R049	R050	R051	R052	R053	R054	R055	R056	R057	R058	R059	R060	R061	R062	R063	R064	R065	R066	R067	R068	R069	R070	R071	R072	R073	R074	R075	R076	R077	R078	R079	R080	R081	R082	R083	R084	R085	R086	R087	R088	R089	R090	R091	R092	R093	R094	R095	R096	R097	R098	R099	R100	R101	R102	R103	R104	R105	R106	R107	R108	R109	R110	R111	R112	R113	R114	R115	R116	R117	R118	R119	R120	R121	R122	R123	R124	R125	R126	R127	R128	R129	R130	R131	R132	R133	R134	R135	R136	R137	R138	R139	R140	R141	R142	R143	R144	R145	R146	R147	R148	R149	R150	R151	R152	R153	R154	R155	R156	R157	R158	R159	R160	R161	R162	R163	R164	R165	R166	R167	R168	R169	R170	R171	R172	R173	R174	R175	R176	R177	R178	R179	R180	R181	R182	R183	R184	R185	R186	R187	R188	R189	R190	R191	R192	R193	R194	R195	R196	R197	R198	R199	R200	R201	R202	R203	R204	R205	R206	R207	R208	R209	R210	R211	R212	R213	R214	R215	R216	R217	R218	R219	R220	R221	R222	R223	R224	R225	R226	R227	R228	R229	R230	R231	R232	R233	R234	R235	R236	R237	R238	R239	R240	R241	R242	R243	R244	R245	R246	R247	R248	R249	R250	R251	R252	R253	R254	R255	R256	R257	R258	R259	R260	R261	R262	R263	R264	R265	R266	R267	R268	R269	R270	R271	R272	R273	R274	R275	R276	R277	R278	R279	R280	R281	R282	R283	R284	R285	R286	R287	R288	R289	R290	R291	R292	R293	R294	R295	R296	R297	R298	R299	R300	R301	R302	R303	R304	R305	R306	R307	R308	R309	R310	R311	R312	R313	R314	R315	R316	R317	R318	R319	R320	R321	R322	R323	R324	R325	R326	R327	R328	R329	R330	R331	R332	R333	R334	R335	R336	R337	R338	R339	R340	R341	R342	R343	R344	R345	R346	R347	R348	R349	R350	R351	R352	R353	R354	R355	R356	R357	R358	R359	R360	R361	R362	R363	R364	R365	R366	R367	R368	R369	R370	R371	R372	R373	R374	R375	R376	R377	R378	R379	R380	R381	R382	R383	R384	R385	R386	R387	R388	R389	R390	R391	R392	R393	R394	R395	R396	R397	R398	R399	R400	R401	R402	R403	R404	R405	R406	R407	R408	R409	R410	R411	R412	R413	R414	R415	R416	R417	R418	R419	R420	R421	R422	R423	R424	R425	R426	R427	R428	R429	R430	R431	R432	R433	R434	R435	R436	R437	R438	R439	R440	R441	R442	R443	R444	R445	R446	R447	R448	R449	R450	R451	R452	R453	R454	R455	R456	R457	R458	R459	R460	R461	R462	R463	R464	R465	R466	R467	R468	R469	R470	R471	R472	R473	R474	R475	R476	R477	R478	R479	R480	R481	R482	R483	R484	R485	R486	R487	R488	R489	R490	R491	R492	R493	R494	R495	R496	R497	R498	R499	R500	R501	R502	R503	R504	R505	R506	R507	R508	R509	R510	R511	R512	R513	R514	R515	R516	R517	R518	R519	R520	R521	R522	R523	R524	R525	R526	R527	R528	R529	R530	R531	R532	R533	R534	R535	R536	R537	R538	R539	R540	R541	R542	R543	R544	R545	R546	R547	R548	R549	R550	R551	R552	R553	R554	R555	R556	R557	R558	R559	R560	R561	R562	R563	R564	R565	R566	R567	R568	R569	R570	R571	R572	R573	R574	R575	R576	R577	R578	R579	R580	R581	R582	R583	R584	R585	R586	R587	R588	R589	R590	R591	R592	R593	R594	R595	R596	R597	R598	R599	R600	R601	R602	R603	R604	R605	R606	R607	R608	R609	R610	R611	R612	R613	R614	R615	R616	R617	R618	R619	R620	R621	R622	R623	R624	R625	R626	R627	R628	R629	R630	R631	R632	R633	R634	R635	R636	R637	R638	R639	R640	R641	R642	R643	R644	R645	R646	R647	R648	R649	R650	R651	R652	R653	R654	R655	R656	R657	R658	R659	R660	R661	R662	R663	R664	R665	R666	R667	R668	R669	R670	R671	R672	R673	R674	R675	R676	R677	R678	R679	R680	R681	R682	R683	R684	R685	R686	R687	R688	R689	R690	R691	R692	R693	R694	R695	R696	R697	R698	R699	R700	R701	R702	R703	R704	R705	R706	R707	R708	R709	R710	R711	R712	R713	R714	R715	R716	R717	R718	R719	R720	R721	R722	R723	R724	R725	R726	R727	R728	R729	R730	R731	R732	R733	R734	R735	R736	R737	R738	R739	R740	R741	R742	R743	R744	R745	R746	R747	R748	R749	R750	R751	R752	R753	R754	R755	R756	R757	R758	R759	R760	R761	R762	R763	R764	R765	R766	R767	R768	R769	R770	R771	R772	R773	R774	R775	R776	R777	R778	R779	R780	R781	R782	R783	R784	R785	R786	R787	R788	R789	R790	R791	R792	R793	R794	R795	R796	R797	R798	R799	R800	R801	R802	R803	R804	R805	R806	R807	R808	R809	R810	R811	R812	R813	R814	R815	R816	R817	R818	R819	R820	R821	R822	R823	R824	R825	R826	R827	R828	R829	R830	R831	R832	R833	R834	R835	R836	R837	R838	R839	R840	R841	R842	R843	R844	R845	R846	R847	R848	R849	R850	R851	R852	R853	R854	R855	R856	R857	R858	R859	R860	R861	R862	R863	R864	R865	R866	R867	R868	R869	R870	R871	R872	R873	R874	R875	R876	R877	R878	R879	R880	R881	R882	R883	R884	R885	R886	R887	R888	R889	R890	R891	R892	R893	R894	R895	R896	R897	R898	R899	R900	R901	R902	R903	R904	R905	R906	R907	R908	R909	R910	R911	R912	R913	R914	R915	R916	R917	R918	R919	R920	R921	R922	R923	R924	R925	R926	R927	R928	R929	R930	R931	R932	R933	R934	R935	R936	R937	R938	R939	R940	R941	R942	R943	R944	R945	R946	R947	R948	R949	R950	R951	R952	R953	R954	R955	R956	R957	R958	R959	R960	R961	R962	R963	R964	R965	R966	R967	R968	R969	R970	R971	R972	R973	R974	R975	R976	R977	R978	R979	R980	R981	R982	R983	R984	R985	R986	R987	R988	R989	R990	R991	R992	R993	R994	R995	R996	R997	R998	R999	R1000
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CIRCUIT DIAGRAM

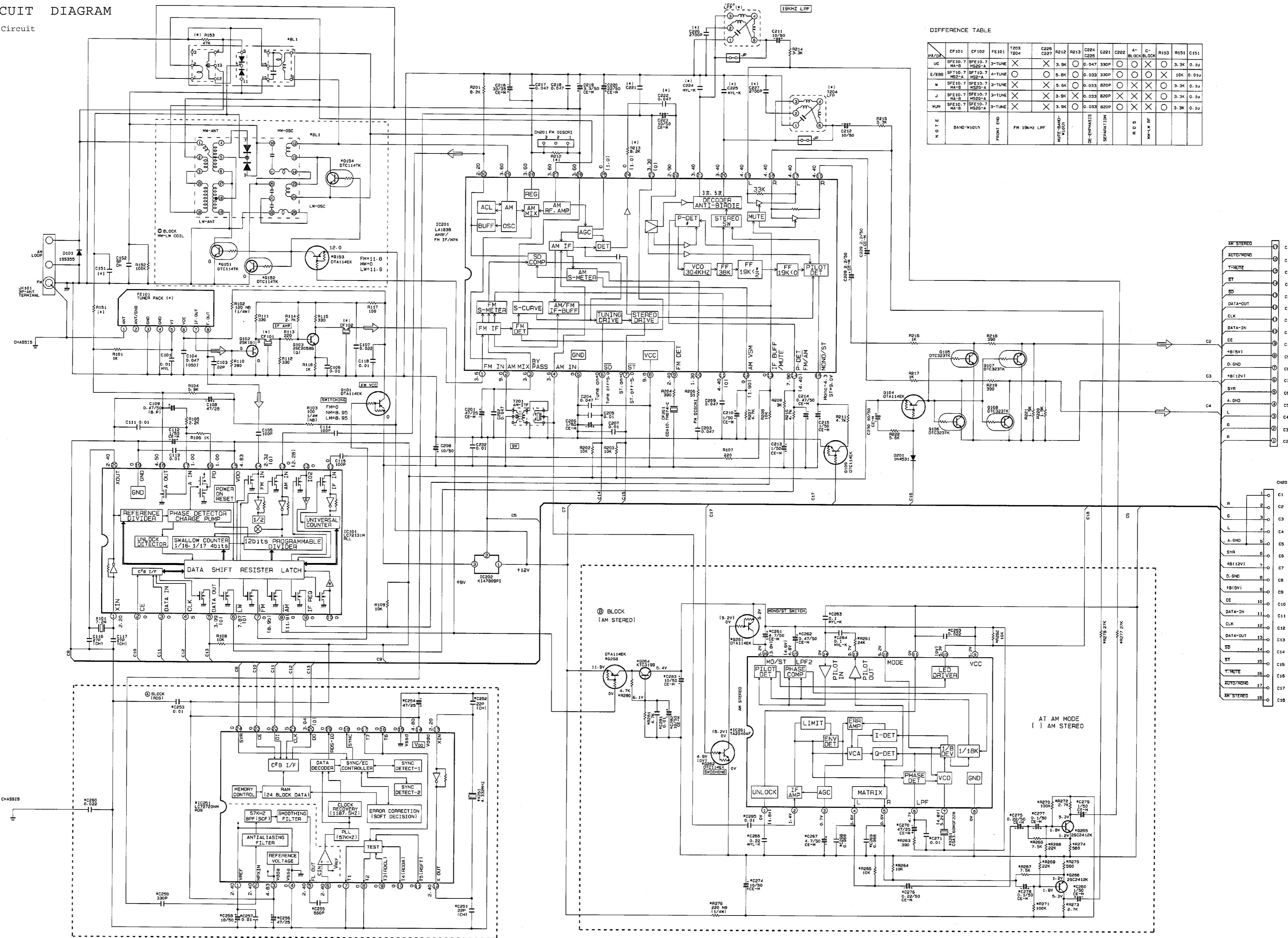
-FL DISP. Circuit

HEADPHONE CCT.



CIRCUIT DIAGRAM

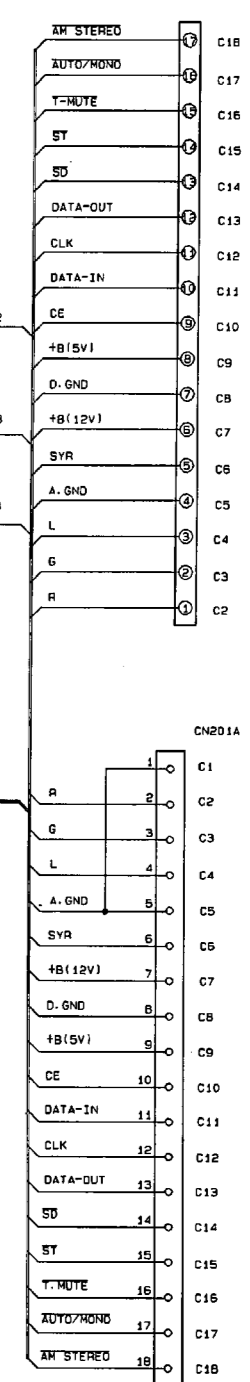
TUNER Circuit



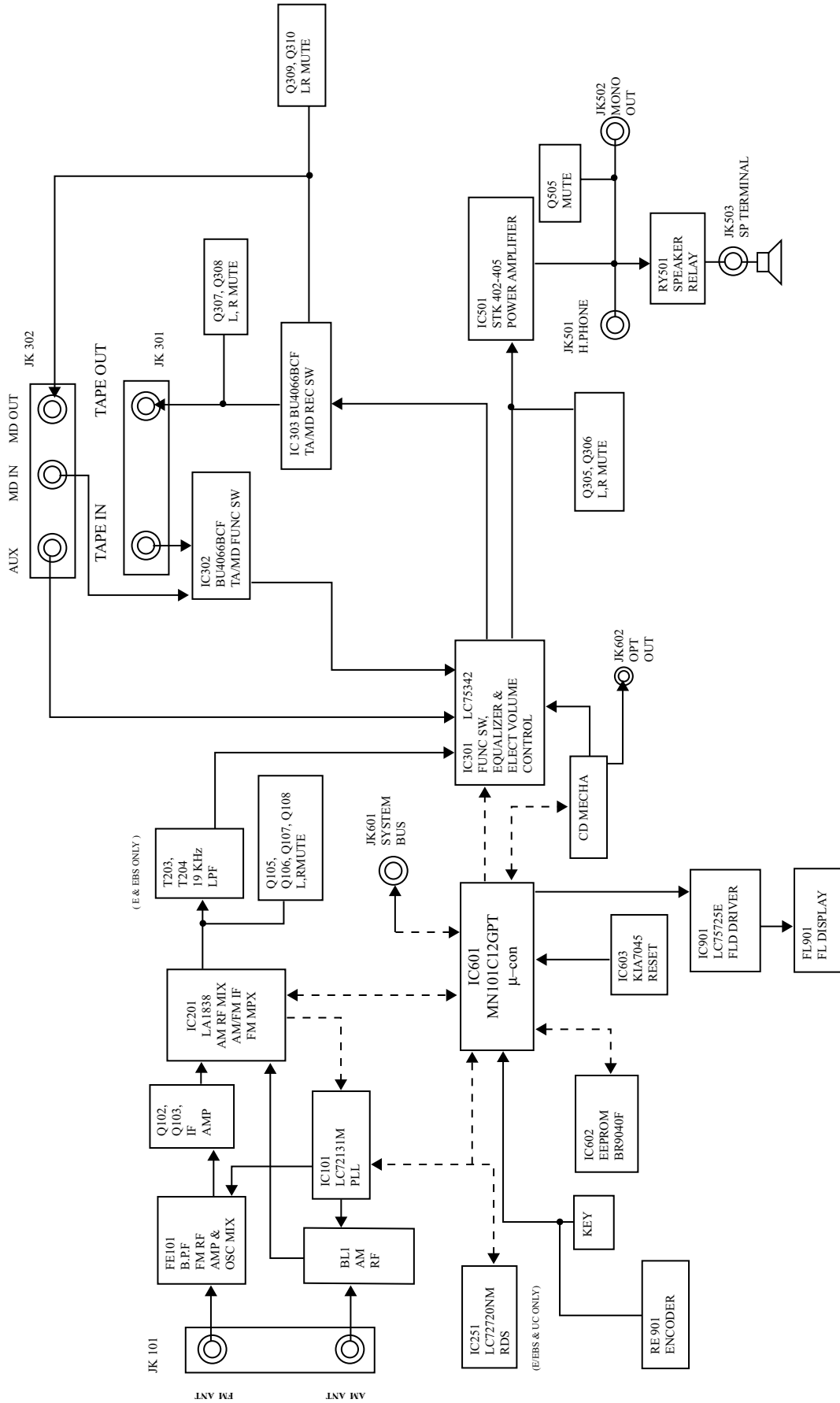
DIFFERENCE TABLE

PL/PL	CF101	CF102	FE101	T203	C226	R212	R213	C224	C221	C222	A- BLOCK	D- BLOCK	R153	R151	C151	
UC	SFE10.7 MA-B	SFE10.7 MSD-A	3-TUNE	X	X	3.9K	X	0.047	330P	X	X	X	X	10K	3.3K	0.1u
E/EBB	SFE10.7 MSD-A	SFE10.7 MSD-A	4-TUNE	X	X	5.6K	X	0.033	330P	X	X	X	X	10K	3.3K	0.1u
M	SFE10.7 MA-B	SFE10.7 MSD-A	3-TUNE	X	X	5.6K	X	0.033	820P	X	X	X	X	3.3K	0.1u	
J	SFE10.7 MA-B	SFE10.7 MSD-A	3-TUNE	X	X	3.9K	X	0.033	820P	X	X	X	X	3.3K	0.1u	
MUN	SFE10.7 MA-B	SFE10.7 MSD-A	3-TUNE	X	X	3.9K	X	0.033	820P	X	X	X	X	3.3K	0.1u	

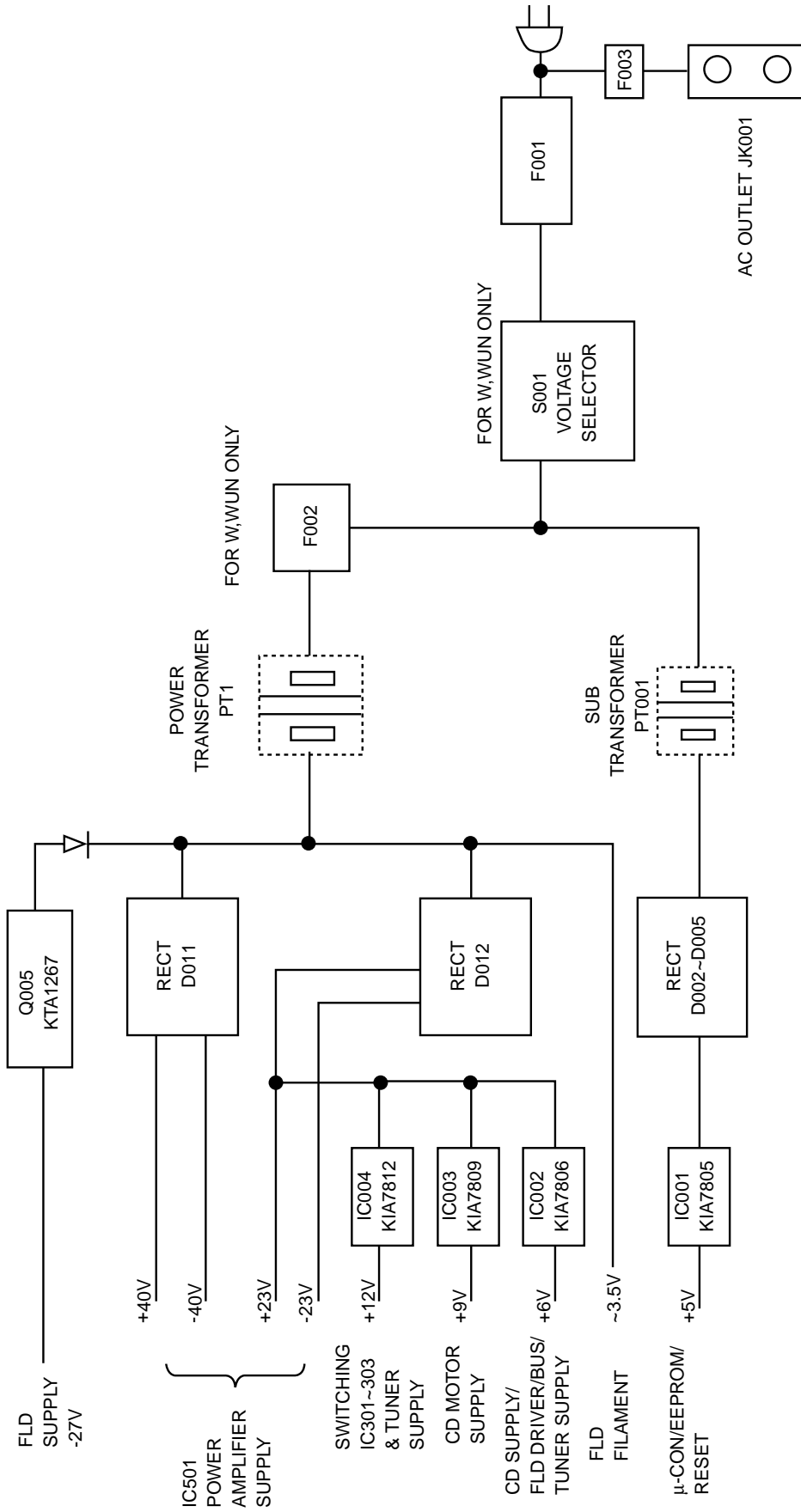
NOTE: BAND=101LN, FRONT END, FM 19KHZ LFP, MUTE-BAND=101LN, DE-EMPHASIS, SENSITIZATION, RDS, INFLW RF.



BLOCK DIAGRAM (MAIN)

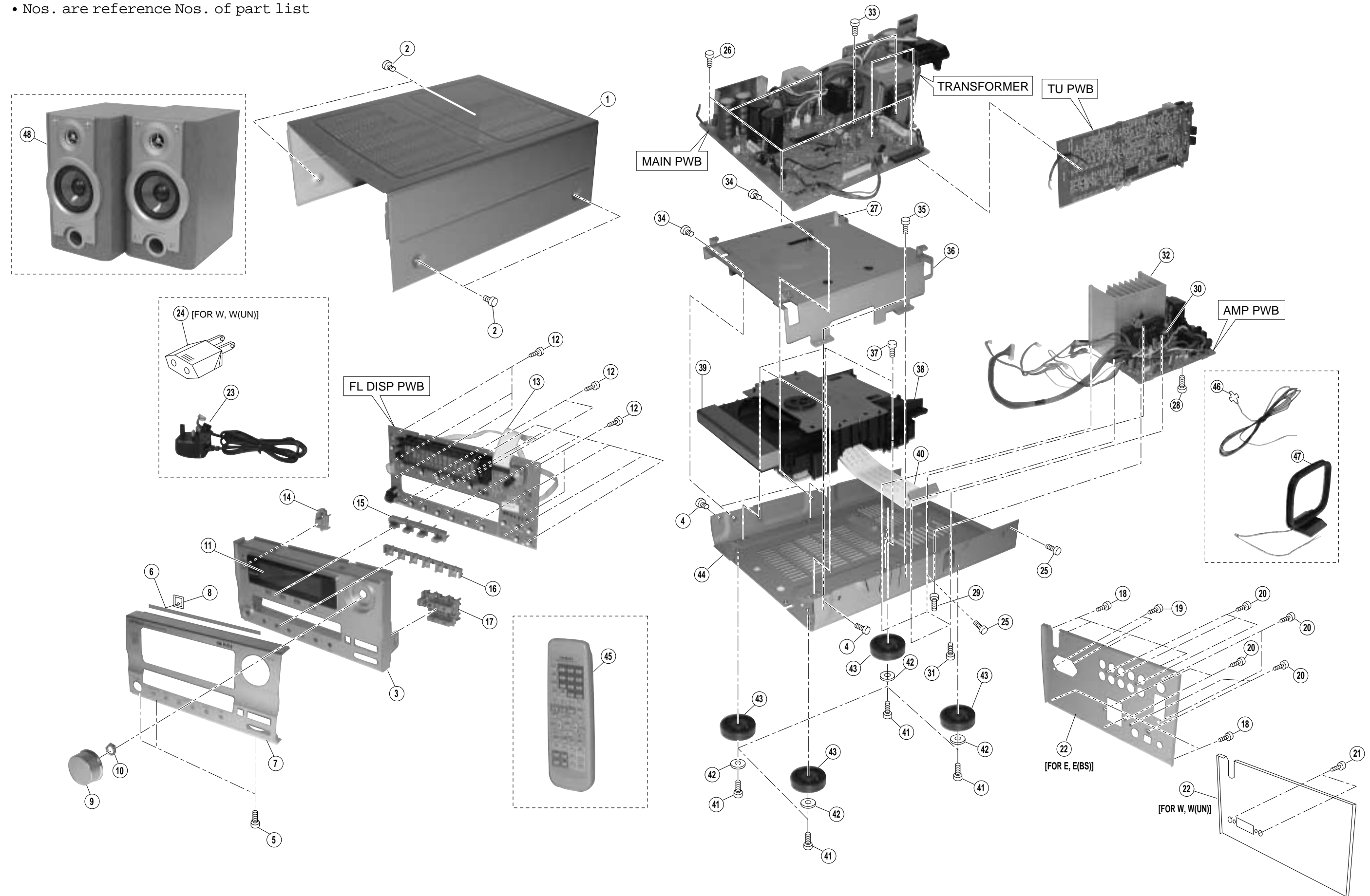


BLOCK DIAGRAM (POWER)



EXPLODED VIEW (Cabinet Chassis)

• Nos. are reference Nos. of part list



**THE UPDATED PARTS LIST
FOR THIS MODEL IS
AVAILABLE ON ESTA**

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