



YK

No.0393E

31KX7B

NTSC

G9LXU1R Chassis

R/C:CLU-960GR

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CAUTION: Before servicing this chassis, it is important that the service technician read the "Safety Precaution" and "Product Safety Notices" in this Service Manual.

TECHNICAL SPECIFICATIONS

ANTENNA INPUT IMPEDANCE	75Ω(300Ω)	POWER INPUT	AC120V, 60Hz
CHANNEL COVERAGE		POWER RATING	190W
VHF BAND	2~13	CONVERGENCE	Self convergence
UHF BAND	14~69	FOCUS	Electrostatic
CATV/MID BAND	A-5~A-1 A~I	PICTURE TUBE	A79AEJ10X01
SUPER BAND	J~W	SPEAKER	2 Woofers (60x120 mm) 2 Tweeters (Φ50 mm)
HYPER BAND	W+1~W+28	SOUND OUTPUT	7Wx2 (FRONT) 3Wx2 (REAR)
ULTRA BAND	W+29~W+84	DIMENSIONS	
RECEIVING CHANNEL	181 ch	W	808 mm
CHANNEL INDICATOR	DIGITAL/ON SCREEN	H	697 mm
INTERMEDIATE FREQUENCY		D	561 mm
Picture I-F Carrier	45.75 MHz	WEIGHT	59.0 kg
Sound I-F Carrier	41.25 MHz		
Sound I-F	4.50 MHz		

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

SOLID STATE COLOR TELEVISION

February 1991

YOKOHAMA WORKS

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis or picture tube.

WARNING: Since the chassis of this receiver is connected to one side of the AC power supply during operation, whenever the receiver is plugged in, service should not be attempted by anyone unfamiliar with the precautions necessary when working on this type of receiver.

The following precautions should be observed:

1. 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. Keep picture tube away from the body while handling.
2. When service is required, an isolation transformer should be inserted between power line and the receiver before any service is performed on a "HOT" chassis receiver.
3. When replacing a chassis in the receiver, all the protective devices must be put back in place, such as barriers, non-metallic knobs, adjustment and compartment cover-shields, isolation resistors-capacitors, etc.
4. When service is required, observe the original lead dress. Extra care should be taken to assure correct lead dress in the high voltage circuitry area.
5. Always use the manufacturer's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacturer's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
6. Before returning a serviced receiver 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, and be sure that no protective device built into the receiver by the manufacturer has become defective, or inadvertently defeated during servicing.

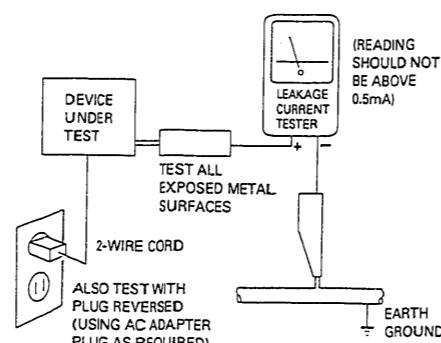
Therefore, the following checks should be performed for the continued protection of the customer and service technician.

Leakage Current Cold Check

With the AC plug removed from the 120V AC 60Hz source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (antennas, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.24\text{M}\Omega$ and a maximum resistor reading of $5.2\text{M}\Omega$. Any resistance value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into a AC 120V 60Hz outlet (do not use an isolation transformer for this check). Turn the AC power switch on. Using a "leakage Current Tester (Simpson Model 229 or equivalent)", measure for current from all exposed metal parts of the cabinet (antennas, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE RECEIVER TO THE CUSTOMER.

High Voltage

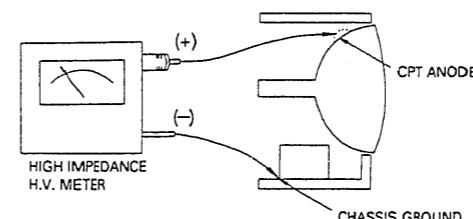
This receiver is provided with a hold down circuit for clearly indicating that voltage has increased in excess of a predetermined value. Comply with all notes described in this Service Manual regarding this hold down circuit when servicing, so that this hold down circuit is operated correctly.

Serviceman warning

With minimum Black Level and Picture, the operating high voltage in this receiver is lower than 35.0kV . In case any component having influence on the high voltage is replaced, confirm that high voltage with minimum Black Level and Picture is lower than 35.0kV .

To measure H.V. use a high impedance H.V. meter. Connect (-) to chassis earth and (+) to the CPT anode button (See the following connection diagram).

NOTE: Turn the power switch off without fail before the connection to the Anode button is made.

**X-radiation**

TUBE: The primary source of X radiation in this receiver is the picture tube. The tube utilized in this chassis is specially constructed to limit X radiation emission.

For continued X radiation protection, the replacement tube must be the same type as the original, HITACHI approved type. When troubleshooting and making test measurements in a receiver with an excessive high voltage problem, avoid coming unnecessarily close to the picture tube and the high voltage component. Do not operate the chassis longer than is necessary to locate the cause of the excessive voltage.

PRODUCT SAFETY NOTICE

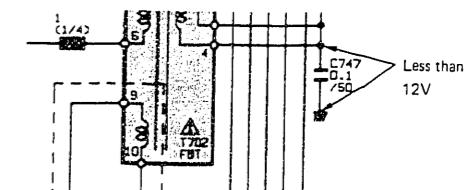
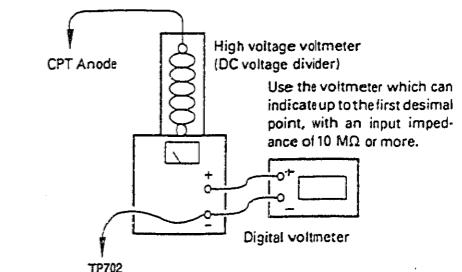
Many electrical and mechanical parts in HITACHI television receiver have special safety related characteristics. These are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual. Electrical components having such features are identified with a Δ mark in the schematics and parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the HITACHI recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, X-radiation, or other hazards.

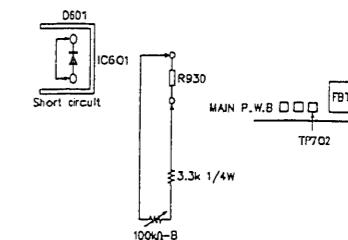
Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies of, HITACHI Service Manual may be obtained at a nominal charge from HITACHI SALES CORPORATION.

TECHNICAL CAUTIONS**High voltage limiter circuit operation check**

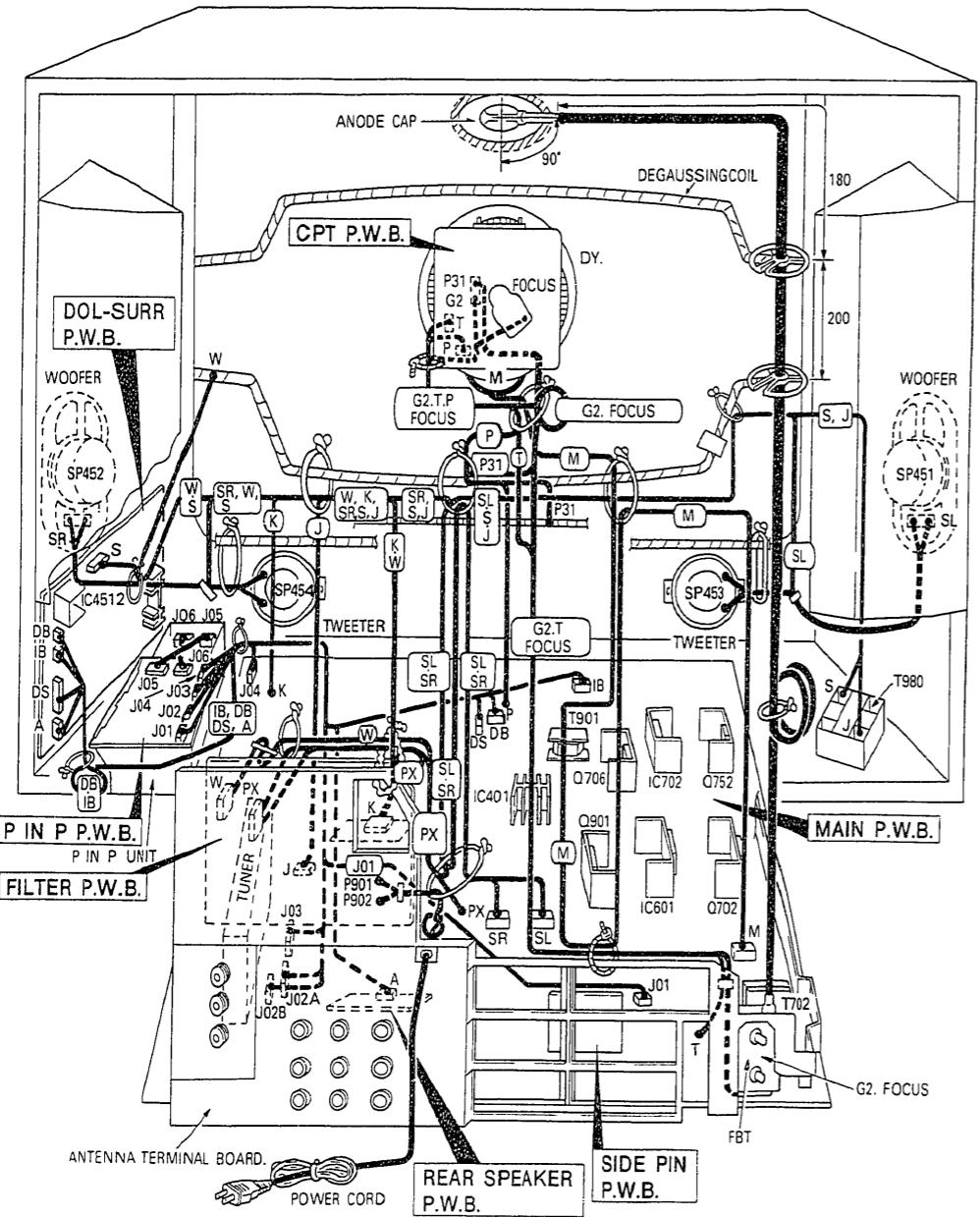
1. Connect the high voltage voltmeter between the CPT anode terminal (anode cap) and ground (TP702) as shown in the diagram.
2. Set the AC input voltage to $132 \pm 3\text{V}$.
3. Receive the broadcast signal and set the picture level and the black level to maximum. Adjust the screen VR and sub brightness VR so that beam current is $1.52 \pm 0.1\text{mA}$. (The voltage at ABL terminal of FBT — between both ends of C747 — should 12V or less at this time.)
4. Check that the constant high voltage is $28.3 \pm 1.0\text{kV}$ at this time.
5. Set the AC input voltage to $100 \pm 5\text{V}$ and then short-circuit both ends of D601 and connect the jig to the R930.
6. Leave the settings of the picture, black level and screen VRs as in item (3) and gradually increase the AC input voltage. Check that the picture disappears when the high voltage is $32.7\text{kV} \pm 1.2\text{kV}$.
7. Turn the switch of the set off immediately after checking that the picture disappears.

**+B voltage operation check**

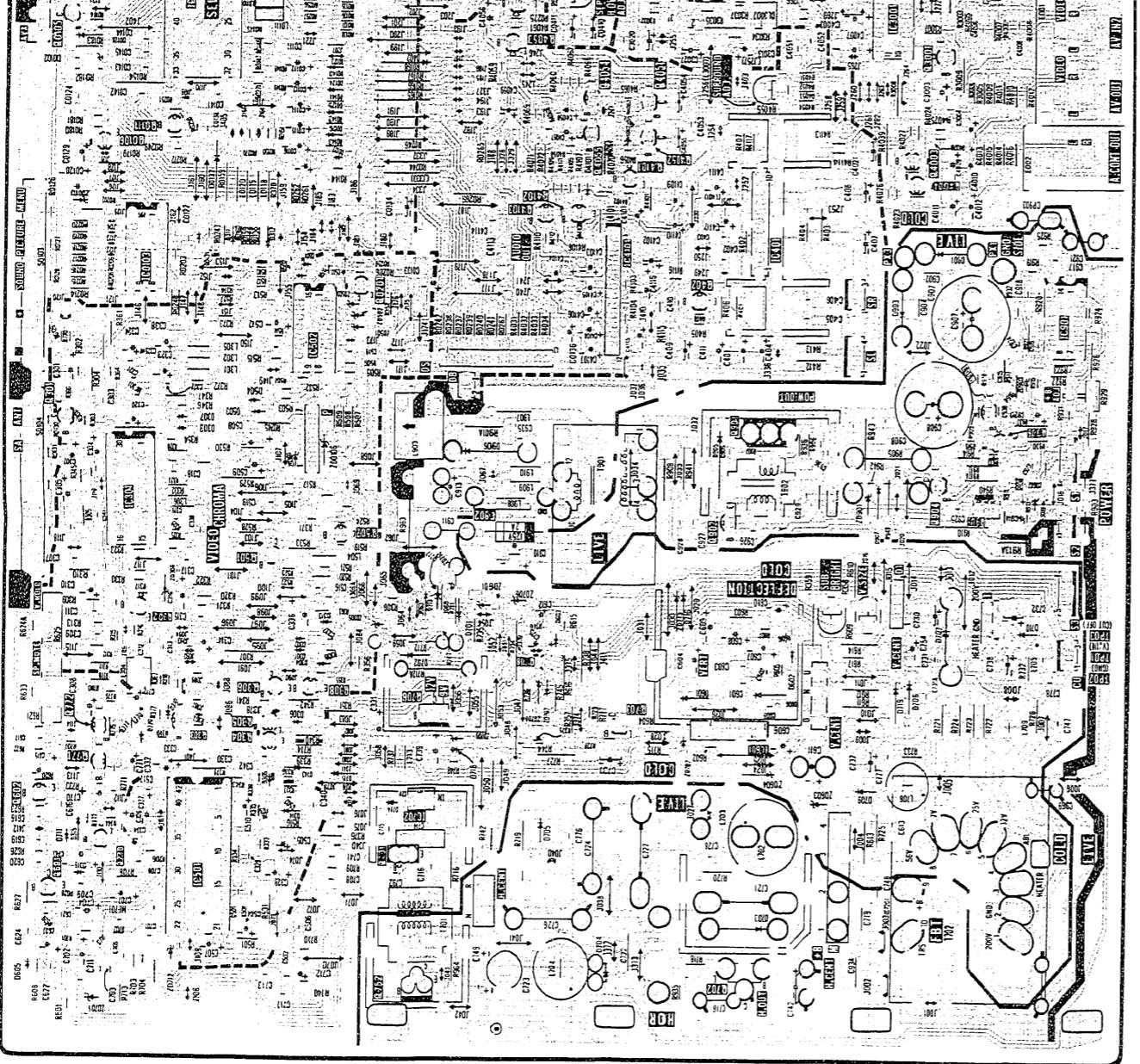
1. Connect the digital voltmeter between the emitter terminal of Q904 and the heat sink of Q901 (GND).
2. Short circuit both ends of C914 and C712.
3. Turning the VR R929 fully counterclockwise/clockwise for +B voltage increasing.
4. Check +B voltage shall be less than $135.2\text{Vdc}/146.6\text{Vdc}$.
5. Remove the shortjumper both ends of C914 and C712.
6. After (3), readjust +B voltage is $135 \pm 0.2\text{Vdc}$ when picture and black level is controlled to the maximum.

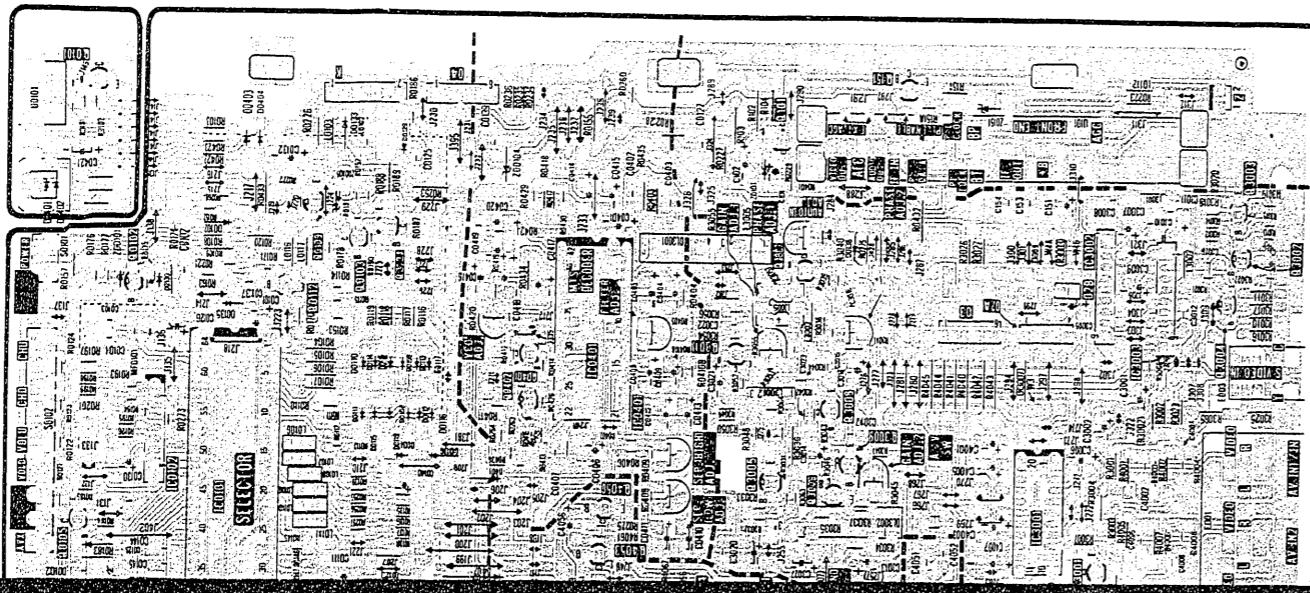


WIRING DIAGRAM

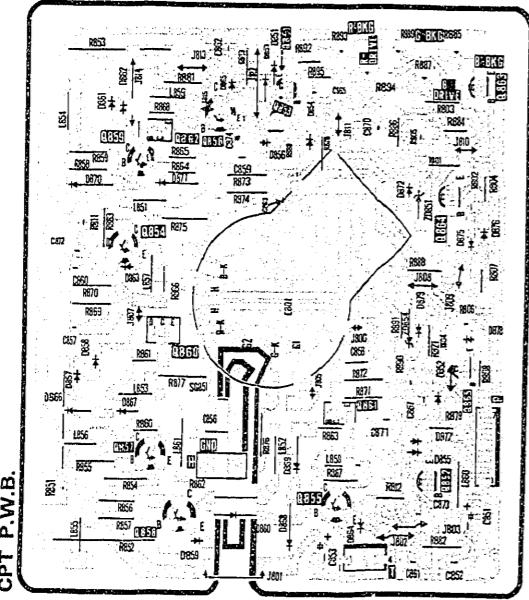


MAIN P.W.B.

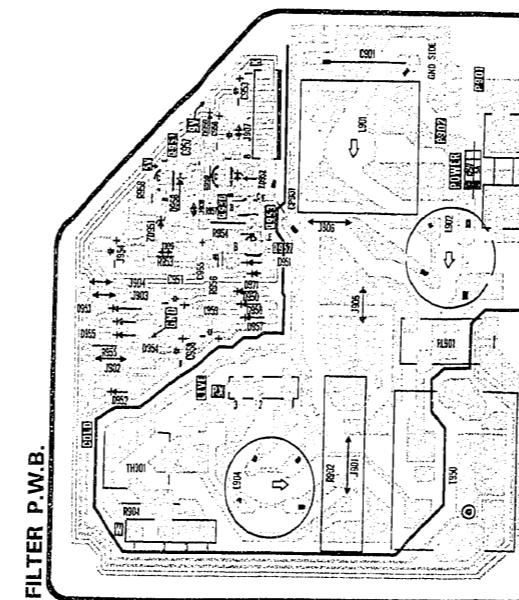




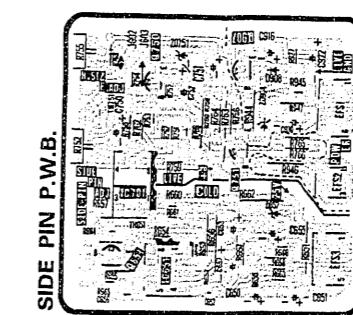
STANDARD WIRING BOARD



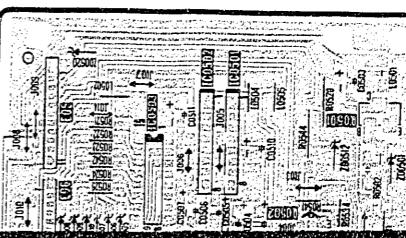
CPT P.W.B.



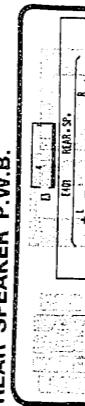
FILTER P.W.B.



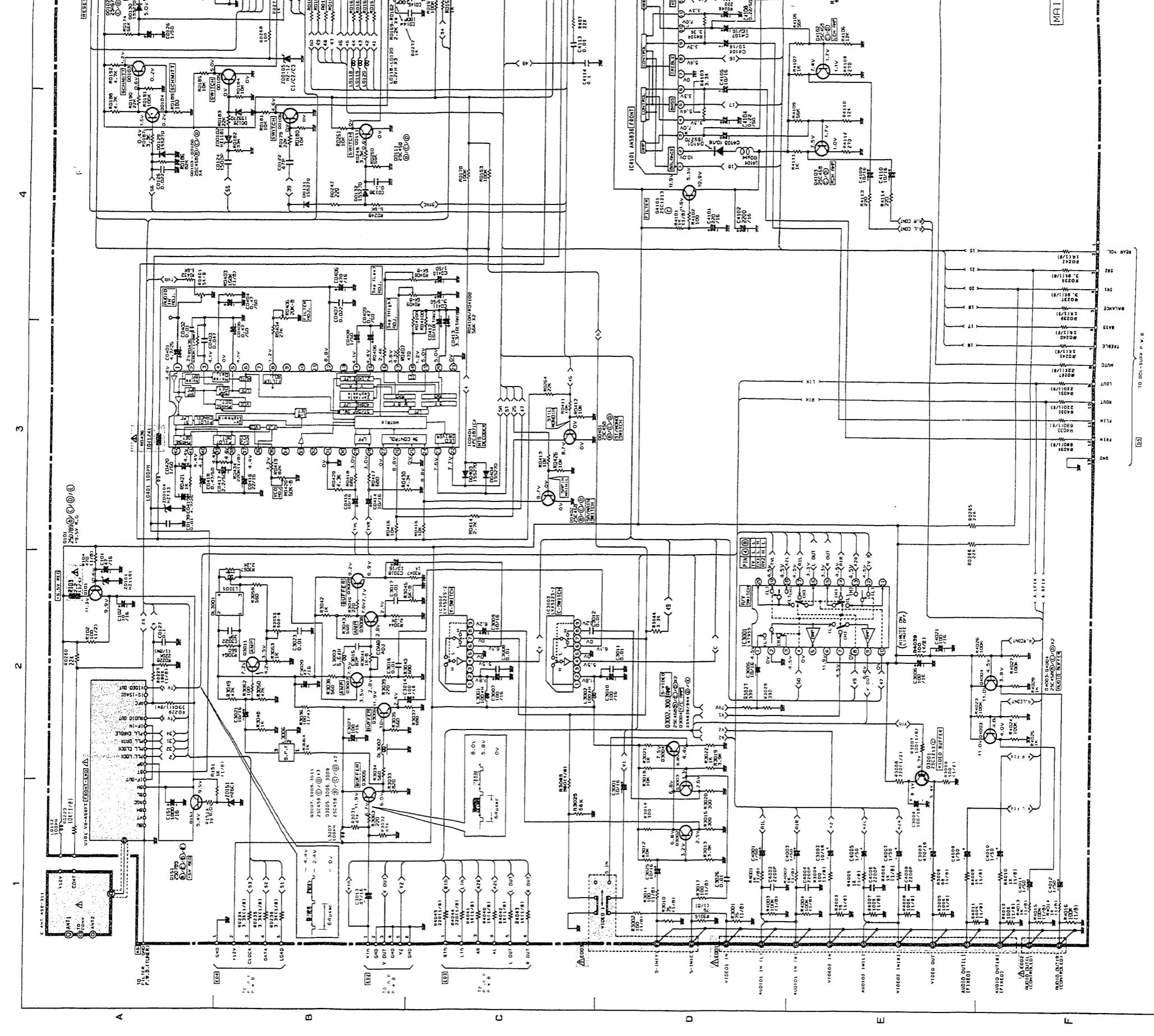
SIDE PIN P.W.B.



REAR SPEAKER P.W.B.

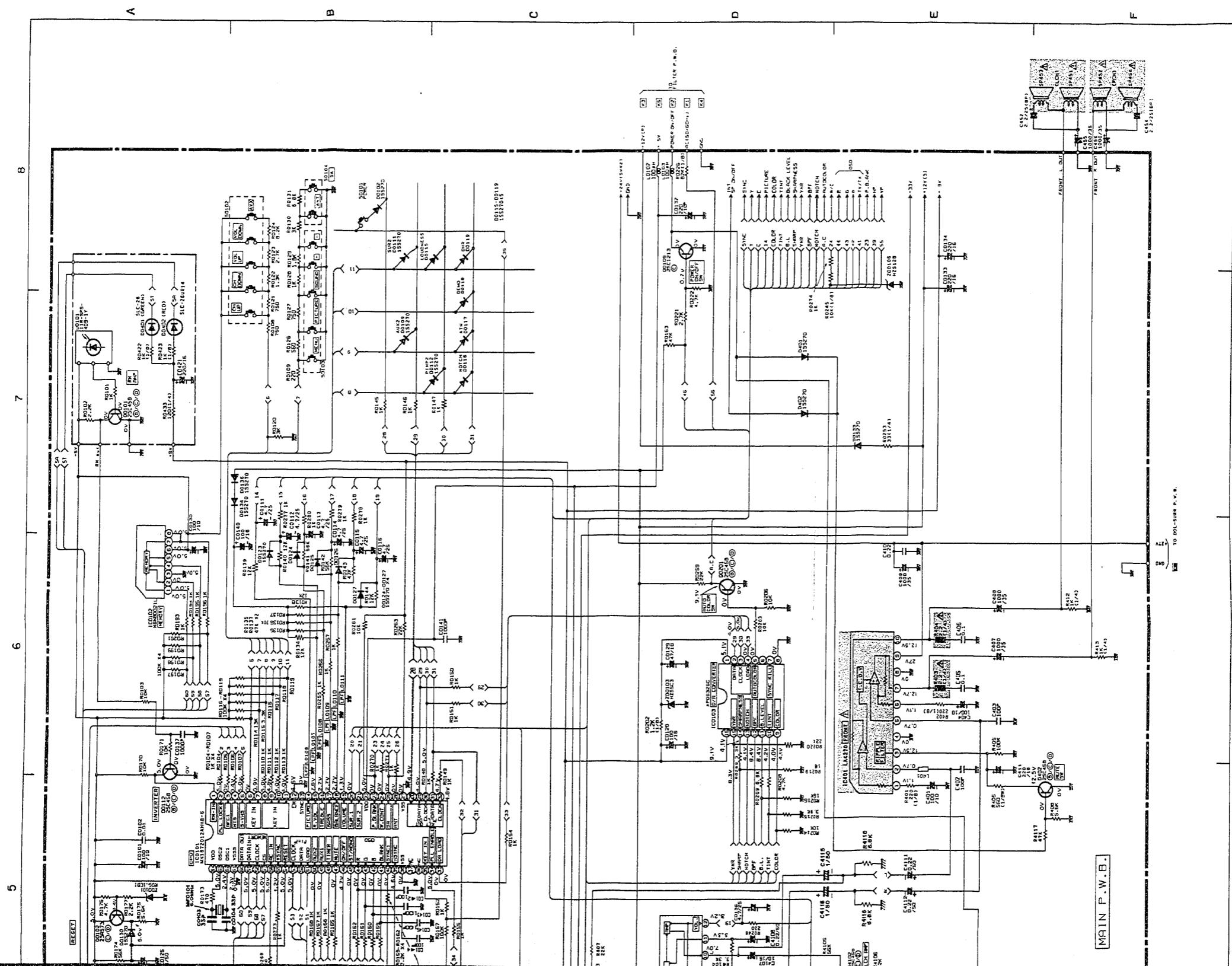


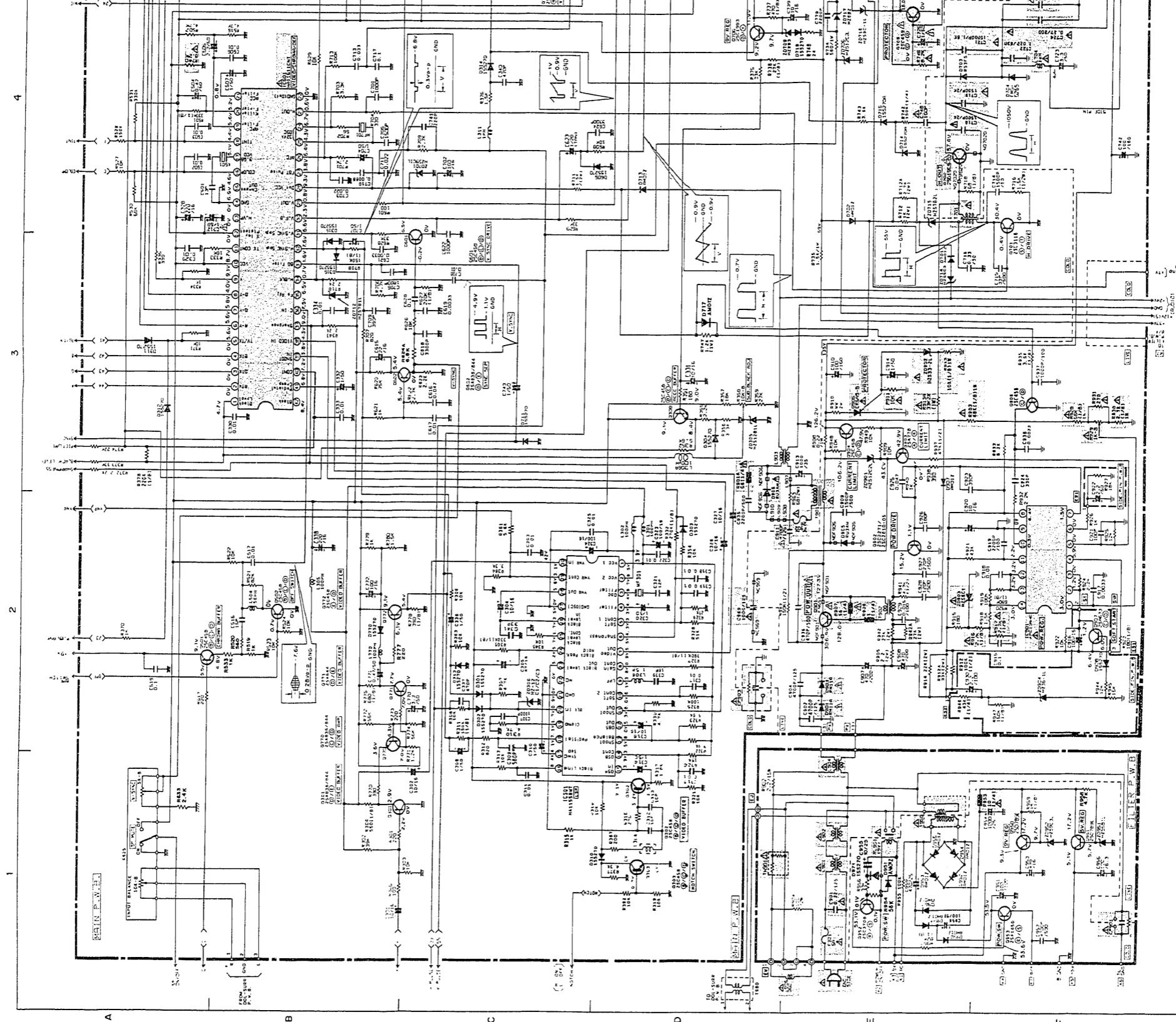
POWER SUPPLY UNIT (P.S.U.)



- Since this is a basic circuit diagram, the value of the parts is subject to be altered for Improvement.
- All DC voltage to be measured with a meter (1000mV). Voltage taken on a complex color bar signal including a standard color bar signal.

DIAGRAM

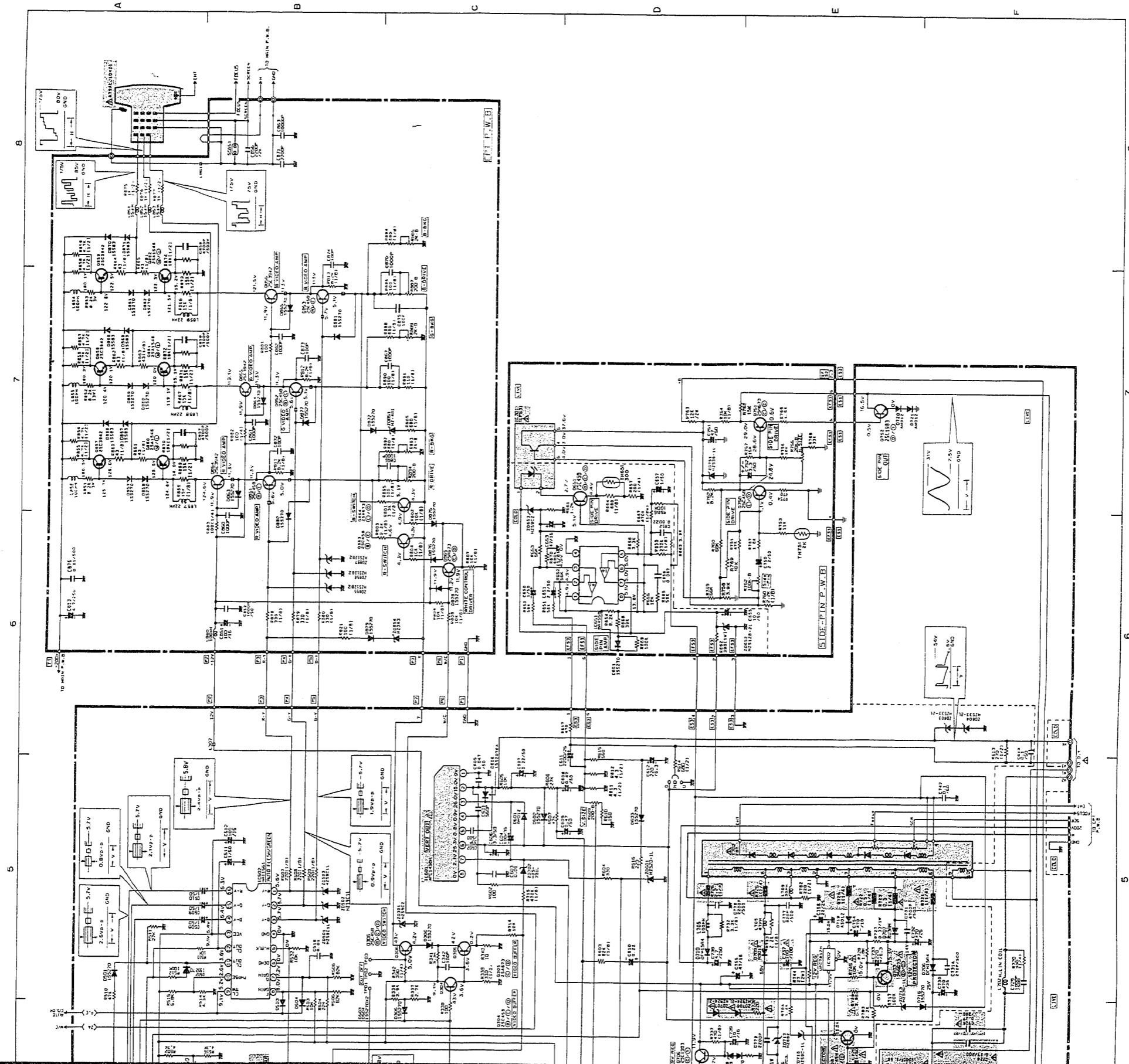




CIRCUIT DIAGRAM

31KX7B

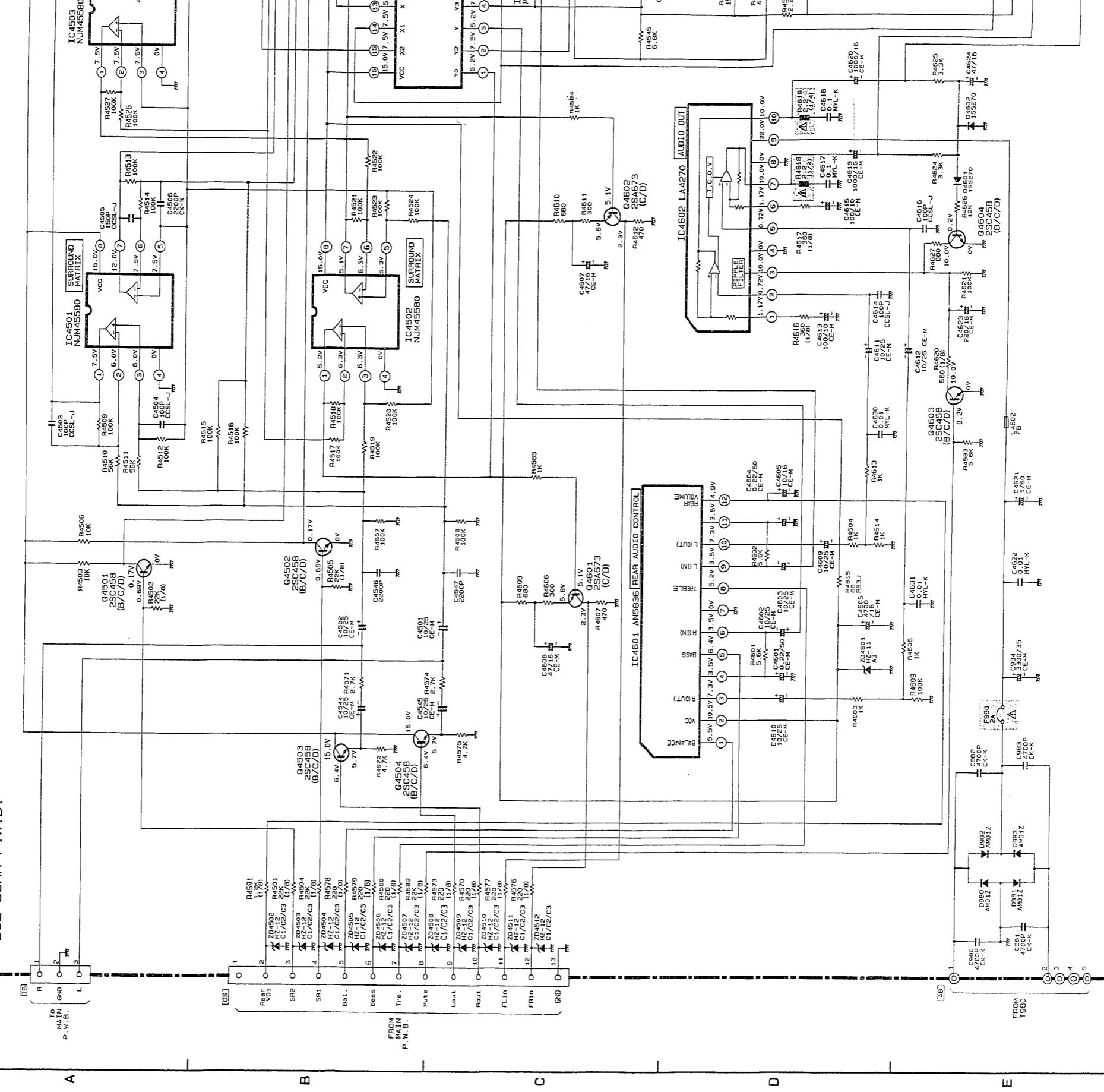
PRODUCT SAFETY NOTE: Components marked with a Δ and shaded have special characteristics. Important to safety. Before replacing any of those components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through Improper servicing.



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1

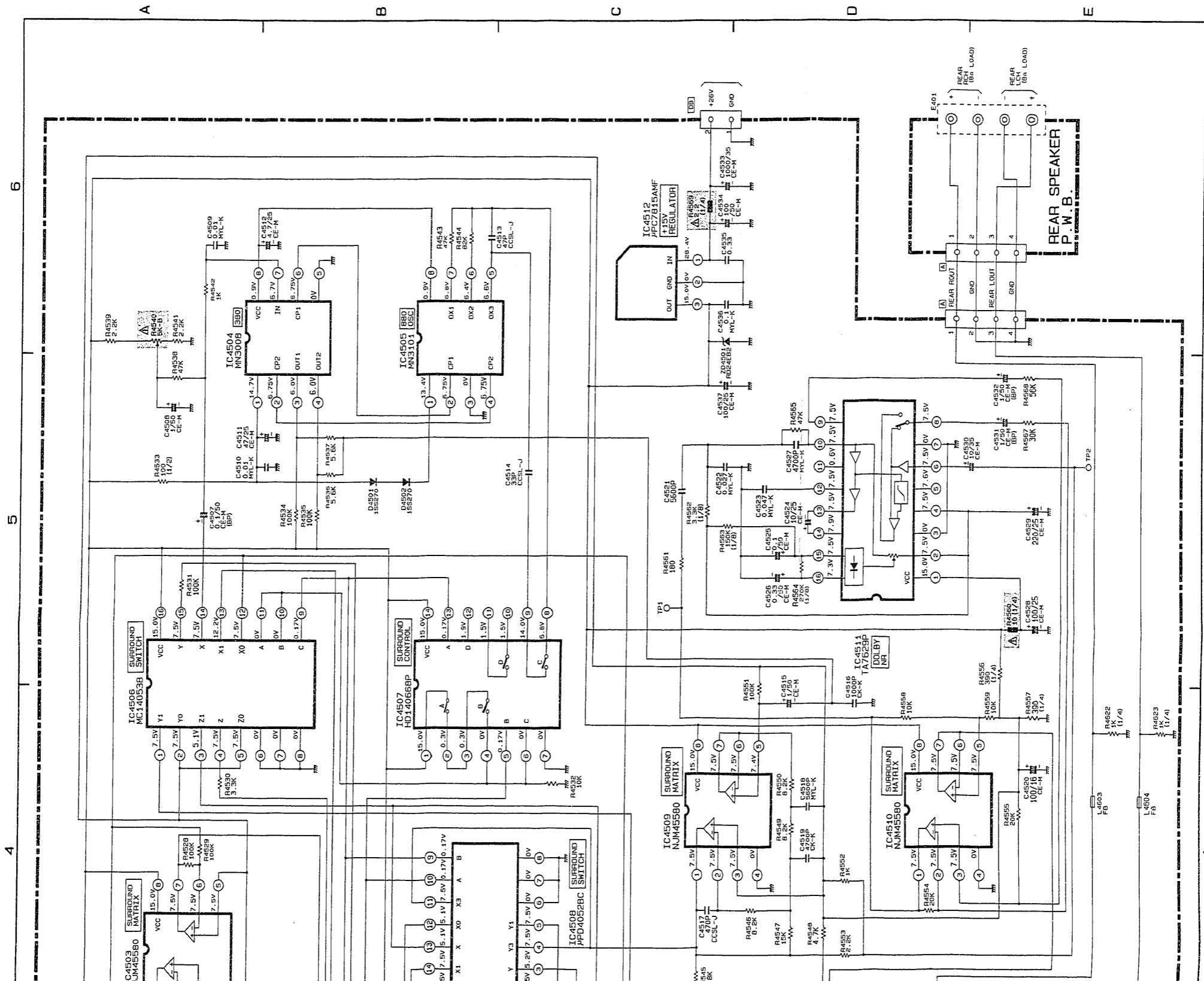
DOL-SURR P.W.B.



2

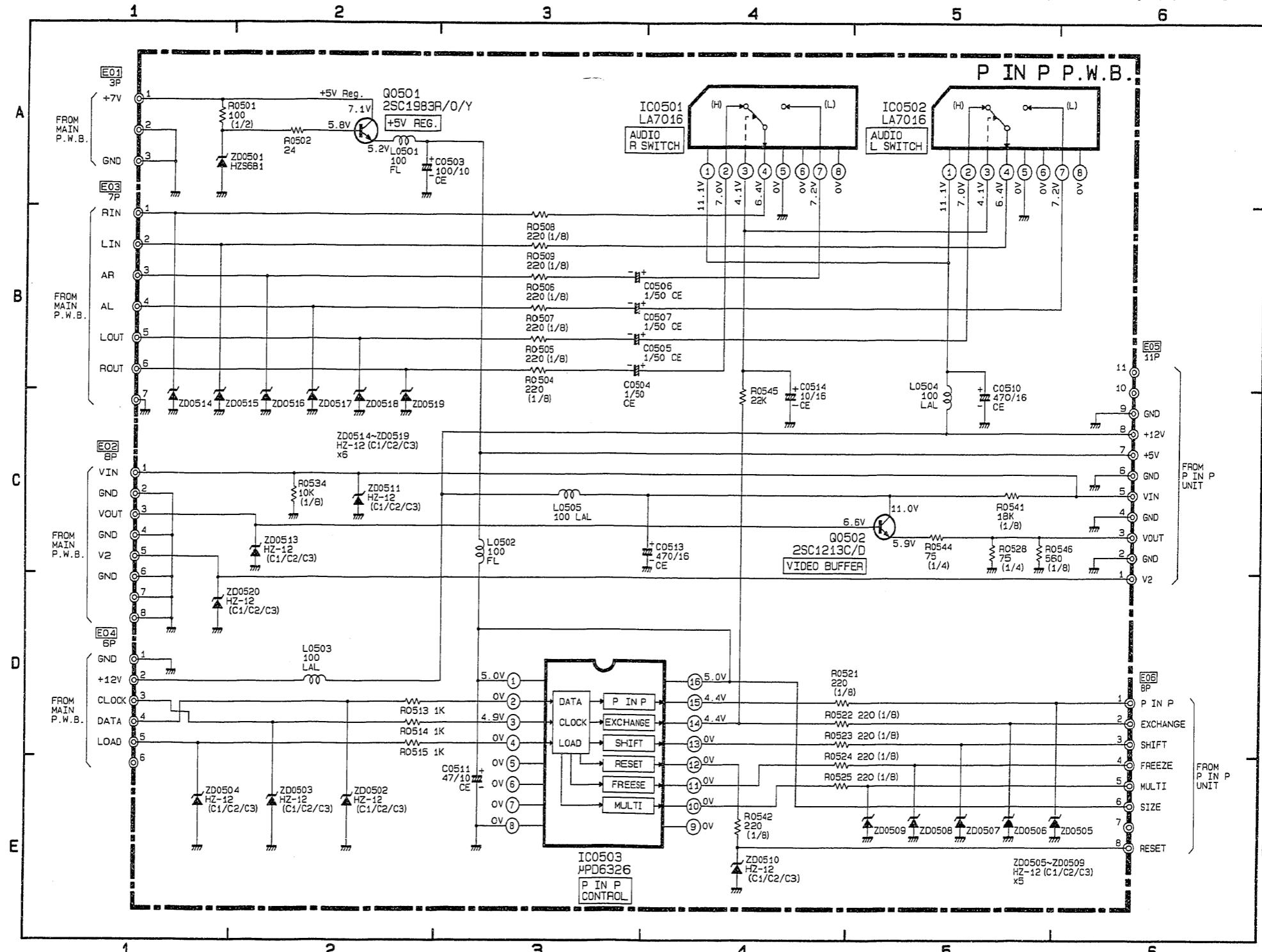
3

- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V). Voltage taken on a complex color bar signal including a standard color bar signal.



BASIC CIRCUIT DIAGRAM

PRODUCT SAFETY NOTE: Components marked with a Δ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



REPLACEMENT PARTS LIST

PRODUCT SAFETY NOTE: Components marked with a have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

ABBREVIATIONS:	Capacitors.....CD: Ceramic disk, PF: Polyester film, EL: Electrolytic, PP: Polypropylene, PR: Paper, TA: Tantalum, TM: Trimmer.
Resistors.....	CF: Carbon film, CC: Carbon composition, MF: Metal oxide film, VR: Variable resistor, WW: Wire wound, FR: Fuse resistor, MG: Metal glazed.
Semiconductor.....	TR: Transistor, DI: Diode, ZD: Zener diode, VA: Varistor, TH: Thermistor, IC: IC

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
CAPACITORS					
C0101	0800048	EL 100MF 10V	C0407	0274767	PF 0.022MF +-10% 50V
C0102	0274763	PF 0.01MF +-10% 50V	C0408	0800003	EL 1MF 50V
C0103	0246452	CD 33PF +-5% 50V	C0410	0800003	EL 0.47MF 50V
C0104	0246452	CD 33PF +-5% 50V	C0411	0800007	EL 3.3MF 50V
C0111	0800009	EL 4.7MF 25V	C0412	0292714	TA 10MF +-10% 16V
C0112	0800009	EL 4.7MF 25V	C0413	0292712	TA 3.3MF 16V
C0113	0800009	EL 4.7MF 25V	C0414	0800015	EL 10MF 16V
C0114	0800009	EL 4.7MF 25V	C0415	0800015	EL 10MF 16V
C0115	0800009	EL 4.7MF 25V	C0416	0800023	EL 22MF 16V
C0116	0800009	EL 4.7MF 25V	C0417	0800005	EL 2.2MF 50V
C0122	0246676	CD 47PF +-5% 50V	C0418	0800001	EL 0.47MF 50V
C0124	0244103	CD 1500PF +-10% 50V	C0419	0800009	EL 4.7MF 25V
C0125	0274767	PF 0.022MF +-10% 50V	C0420	0800003	EL 1MF 50V
C0126	0800003	EL 1MF 50V	C0421	0800058	EL 220MF 16V
C0127	0880057	PF 0.1MF +-10% 50V	C0503	0800048	EL 100MF 10V
C0128	0800049	EL 100MF 16V	C0504	0800003	EL 1MF 50V
C0129	0800039	EL 47MF 10V	C0505	0800003	EL 1MF 50V
C0130	0800048	EL 100MF 10V	C0506	0800003	EL 1MF 50V
C0132	0800057	EL 220MF 10V	C0507	0800003	EL 1MF 50V
C0133	0800058	EL 220MF 16V	C0510	0800074	EL 470MF 16V
C0134	0800058	EL 220MF 16V	C0511	0800039	EL 47MF 10V
C0136	0800059	EL 4.7MF 25V	C0513	0800074	EL 470MF 16V
C0137	0244139	CD 1000PF +-10% 50V	C0514	0800015	EL 10MF 16V
C0138	0880057	PF 0.1MF +-10% 50V	C101	0800041	EL 47MF 16V
C0139	0274763	PF 0.01MF +-10% 50V	C102	0800015	EL 10MF 16V
C0140	0800049	EL 100MF 16V	C151	0800082	EL 1000MF 16V
C0141	0244139	CD 1000PF +-10% 50V	C3001	0800015	EL 10MF 16V
C0142	0248684	CD 100PF +-5% 50V	C3002	0800015	EL 10MF 16V
C0143	0248684	CD 100PF +-5% 50V	C3003	0800074	EL 470MF 16V
C0144	0248684	CD 100PF +-5% 50V	C3004	0800049	EL 100MF 16V
C0145	0248684	CD 100PF +-5% 50V	C3005	0800015	EL 10MF 16V
C0401	0800009	EL 4.7MF 25V	C3006	0800049	EL 100MF 16V
C0402	0274763	PF 0.01MF +-10% 50V	C3007	0800049	EL 100MF 16V
C0403	0274771	PF 0.047MF +-10% 50V	C3008	0274763	PF 0.01MF +-10% 50V
C0404	0800001	EL 0.47MF 50V	C3009	0800015	EL 10MF 16V
C0405	0800001	EL 0.47MF 50V	C3010	0800049	EL 100MF 16V
C0406	0800074	EL 470MF 16V	C3011	0274763	PF 0.01MF +-10% 50V

PRODUCT SAFETY NOTE: Components marked with a have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
C3012	0274763	PF 0.01MF +-10% 50V	C4003	0800003	EL 1MF 50V
C3013	0800041	EL 47MF 16V	C4004	0244105	CD 2200PF +-10% 50V
C3014	0800049	EL 100MF 16V	C4005	0800003	EL 1MF 50V
C3015	0890073	CD 82PF +-5% 50V	C4006	0244105	CD 2200PF +-10% 50V
C3016	0274763	PF 0.01MF +-10% 50V	C4007	0800003	EL 1MF 50V
C3017	0274763	PF 0.01MF +-10% 50V	C4008	0244105	CD 2200PF +-10% 50V
C3018	0800015	EL 10MF 16V	C4009	0800003	EL 1MF 50V
C302	0800015	EL 10MF 16V	C401	0800048	EL 100MF 10V
C3020	0800041	EL 47MF 16V	C4010	0800003	EL 1MF 50V
C3021	0800015	EL 10MF 16V	C4011	0800003	EL 1MF 50V
C3022	0246454	CD 39PF +-5% 50V	C4012	0800003	EL 1MF 50V
C3023	0274763	PF 0.01MF +-10% 50V	C402	0248684	CD 100PF +-5% 50V
C3025	0800015	EL 10MF 16V	C4021	0800049	EL 100MF 16V
C3026	0274763	PF 0.01MF +-10% 50V	C403	0248684	CD 100PF +-5% 50V
C3027	0800049	EL 100MF 16V	C404	0800048	EL 100MF 10V
C303	0274763	PF 0.01MF +-10% 50V	C405	0880057	PF 0.1MF +-10% 50V
C304	0800015	EL 10MF 16V	C406	0880057	PF 0.1MF +-10% 50V
C305	0800041	EL 47MF 16V	C407	0800084	EL 1000MF 35V
C307	0244139	CD 1000PF +-10% 50V	C408	0800084	EL 1000MF 35V
C308	0800003	EL 1MF 50V	C409	0800084	EL 1000MF 35V
C309	0248698	CD 560PF +-5% 50V	C410	0880062	PF 0.22MF +-10% 50V
C310	0800003	EL 1MF 50V	C4101	0800058	EL 220MF 16V
C311	0274763	PF 0.01MF +-10% 50V	C4102	0800087	EL 2200MF 16V
C312	0246420	CD 10PF +-2.5% 50V	C4103	0800015	EL 10MF 16V
C313	0246420	CD 10PF +-2.5% 50V	C4104	0253942	EL 0.22MF 50V
C314	0800003	EL 1MF 50V	C4105	0259807	EL 10MF 16V
C315	0274763	PF 0.01MF +-10% 50V	C4106	0259807	EL 10MF 16V
C316	0800015	EL 10MF 16V	C4107	0800015	EL 10MF 16V
C317	0274763	PF 0.01MF +-10% 50V	C4108	0253942	EL 0.22MF 50V
C318	0274763	PF 0.01MF +-10% 50V	C4109	0800015	EL 10MF 16V
C319	0274763	PF 0.01MF +-10% 50V	C411	0800058	EL 220MF 16V
C320	0800003	EL 1MF 50V	C4110	0800015	EL 10MF 16V
C321	0890115	D 12PF +-5% 50V	C4111	0253942	EL 0.22MF 50V
C322	0274763	PF 0.01MF +-10% 50V	C4112	0253942	EL 0.22MF 50V
C323	0800049	EL 100MF 16V	C4113	0274763	PF 0.01MF +-10% 50V
C324	0800049	EL 100MF 16V	C4114	0880057	PF 0.1MF +-10% 50V
C325	0274763	PF 0.01MF +-10% 50V	C4115	0800003	EL 1MF 50V
C326	0800015	EL 10MF 16V	C4116	0800003	EL 1MF 50V
C327	0800015	EL 10MF 16V	C4501	0800016	EL 10MF 25V
C328	0800058	EL 220MF 16V	C4502	0800016	EL 10MF 25V
C329	0274763	PF 0.01MF +-10% 50V	C4503	0248684	CD 100PF +-5% 50V
C330	0274763	PF 0.01MF +-10% 50V	C4504	0248684	CD 100PF +-5% 50V
C331	0800015	EL 10MF 16V	C4505	0248688	CD 150PF +-5% 50V
C332	0800003	EL 1MF 50V	C4506	0244105	CD 2200PF +-10% 50V
C333	0274763	PF 0.01MF +-10% 50V	C4507	0252417	EL 1MF 50V
C334	0274763	PF 0.01MF +-10% 50V	C4508	0800003	EL 1MF 50V
C336	0800003	EL 1MF 50V	C4509	0244171	CD 0.01MF +80-20% 50V
C337	0244118	CD 470PF +-10% 50V	C4510	0880044	PF 0.01MF +-10% 50V
C338	0800058	EL 220MF 16V	C4511	0800042	EL 47MF 25V
C339	0248665	CD 16PF +-5% 50V	C4512	0800009	EL 4.7MF 25V
C340	0244118	CD 470PF +-10% 50V	C4513	0248676	CD 47PF +-5% 50V
C341	0248672	CD 33PF +-5% 50V	C4514	0248672	CD 33PF +-5% 50V
C342	0248684	CD 100PF +-5% 50V	C4515	0800003	EL 1MF 50V
C4001	0800003	EL 1MF 50V	C4516	0244139	CD 1000PF +-10% 50V
C4002	0244105	CD 2200PF +-10% 50V	C4517	0249093	CD 470PF +-5% 50V

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SYSMBOL NO.	PART NO.	DESCRIPTION	SYSMBOL NO.	PART NO.	DESCRIPTION
C4518	02792111	PF 5600PF 50V	C503	0274763	PF 0.01MF +-10% 50V
C4519	0244109	CD 4700PF +-10% 50V	C504	0800001	EL 0.47MF 50V
C452	0257048	EL 2.2MF 25V	C505	0800005	EL 2.2MF 50V
C4520	0800049	EL 100MF 16V	C506	0274763	PF 0.01MF +-10% 50V
C4521	02792111	PF 5600PF 50V	C507	0800003	EL 1MF 50V
C4522	0274668	PF 0.027MF +-5% 50V	C508	0800003	EL 1MF 50V
C4523	0274671	PF 0.047MF 50V	C509	0800003	EL 1MF 50V
C4524	0800016	EL 10MF 25V	C510	0800003	EL 1MF 50V
C4525	0800101	EL 0.1MF 50V	C511	0800003	EL 1MF 50V
C4526	0800105	EL 0.33MF 50V	C512	0800049	EL 100MF 16V
C4527	0274659	PF 4700PF +-5% 50V	C516	0246444	CD 15PF +-5% 50V
C4528	0800051	EL 100MF 25V	C517	0274763	PF 0.01MF +-10% 50V
C4529	0800059	EL 220MF 25V	C518	0274763	PF 0.01MF +-10% 50V
C4530	0252410	EL 10MF 35V	C519	0880057	PF 0.1MF +-10% 50V
C4531	0252417	EL 1MF 50V	C601	0244115	CD 560PF +-10% 50V
C4532	0252417	EL 1MF 50V	C602	0247882	CD 33PF +-10% 500V
C4534	0800053	EL 100MF 50V	C603	0274763	PF 0.01MF +-10% 50V
C4535	0276247	PF 0.33 MF +-5% 50V	C604	0800052	EL 100MF 35V
C4536	0880057	PF 0.1MF +-10% 50V	C605	0880053	PF 0.047MF +-10% 50V
C4537	0800051	EL 100MF 25V	C606	02527411	EL 3.3MF 50V
C454	0257048	EL 2.2MF 25V	C607	0253942	EL 0.22MF 50V
C4544	0800016	EL 10MF 25V	C608	0800001	EL 0.47MF 50V
C4545	0800016	EL 10MF 25V	C609	0800001	EL 0.47MF 50V
C4546	0244105	CD 2200PF +-10% 50V	C610	0253942	EL 0.22MF 50V
C4547	0244105	CD 2200PF +-10% 50V	C611	0252969	EL 2200MF 25V
C455	0800084	EL 1000MF 35V	C612	0800056	EL 220MF 6.3V
C456	0800084	EL 1000MF 35V	C613	0880057	PF 0.1MF +-10% 50V
C4601	0252806	EL 0.22MF 50V	C615	0800023	EL 22MF 16V
C4602	0800016	EL 10MF 25V	C616	0274771	PF 0.047MF +-10% 50V
C4603	0800016	EL 10MF 25V	C617	0274763	PF 0.01MF +-10% 50V
C4604	0252806	EL 0.22MF 50V	C618	0244107	CD 3300PF +-10% 50V
C4605	0800003	EL 1MF 50V	C619	0244107	CD 3300PF +-10% 50V
C4606	0252953	EL 4700MF 16V	C620	0880057	PF 0.1MF +-10% 50V
C4607	0800041	EL 47MF 16V	C621	0244107	CD 3300PF +-10% 50V
C4608	0800041	EL 47MF 16V	C622	0890087	CD 1000PF +-10% 50V
C4609	0800016	EL 10MF 25V	C623	0292716	TA 1MF +-10% 20V
C4610	0800016	EL 10MF 25V	C624	0244107	CD 3300PF +-10% 50V
C4611	0800016	EL 10MF 25V	C650	0800003	EL 1MF 50V
C4612	0800016	EL 10MF 25V	C651	0800005	EL 2.2MF 50V
C4613	0800048	EL 100MF 10V	C652	0880035	PF 2200PF +-10% 50V
C4614	0248684	CD 100PF +-5% 50V	C653	0800041	EL 47MF 16V
C4615	0800048	EL 100MF 10V	C655	0800018	EL 10MF 50V
C4616	0248684	CD 100PF +-5% 50V	C656	0880053	PF 0.047MF +-10% 50V
C4617	0880057	PF 0.1MF +-10% 50V	C657	0800003	EL 1MF 50V
C4618	0880057	PF 0.1MF +-10% 50V	C701	0244139	CD 1000PF +-10% 50V
C4619	0800082	EL 1000MF 16V	C702	0800049	EL 100MF 16V
C4620	0800082	EL 1000MF 16V	C703	0274767	PF 0.022MF +-10% 50V
C4621	0800003	EL 1MF 50V	C704	0800003	EL 1MF 50V
C4622	0274763	PF 0.01MF +-10% 50V	C705	0244103	CD 1500PF +-10% 50V
C4623	0800058	EL 220MF 16V	C706	0244104	CD 1800PF +-10% 50V
C4624	0800041	EL 47MF 16V	C707	0800003	EL 1MF 50V
C4630	0274763	PF 0.01MF +-10% 50V	C708	0274763	PF 0.01MF +-10% 50V
C4631	0274763	PF 0.01MF +-10% 50V	C709	0248699	CD 390PF +-5% 50V
C501	0246443	CD 13PF +-5% 50V	C710	0880042	CPF 6800PF +-10% 50V
C502	0274763	PF 0.01MF +-10% 50V	C711	0274767	PF 0.022MF +-10% 50V

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SYSMBOL NO.	PART NO.	DESCRIPTION	SYSMBOL NO.	PART NO.	DESCRIPTION
C712	0800003	EL1MF50V	C872	0248684	CD 100PF + -5% 50V
C713	0880051	PF0.033MF + -10% 50V	C873	0248684	CD 100PF + -5% 50V
C714	0244503	CD 1500PF + -10% 50V	C874	0248684	CD 100PF + -5% 50V
C715	0247882	CD 33PF + -10% 500V	C875	0248684	CD 100PF + -5% 50V
C716	0880019	PF0.33MF + -10% 50V	C876	0244541	CD 0.01MF + -10% 500V
C717	0880057	PF0.1MF + -10% 50V	C901	0279719	PF 0.22MF + -10% 125V
C718	0244213	CD 1500PF + -10% 2KV	C902	0249145	CD 4700PF + 100% 125V
C719	0244213	CD 1500PF + -10% 2KV	C904	0249145	CD 4700PF + 100% 125V
C721	0299940	PF0.015MF + -5% 1.6KV	C907	0253891	EL 470MF 200V
C722	0299709	PP0.022MF + -10% 630V	C908	0253891	EL 470MF 200V
C723	0257911	EL3.3MF 50V	C909	0244503	CD 1500PF + -10% 50V
C724	0299931	PP0.27MF + -10% 200V	C910	0254822	EL 100M 160V
C725	0800003	EL1MF 50V	C911	0249394	CD 4700PF + -20%
C726	0299931	PP0.27MF + -10% 200V	C913	0800084	EL 1000MF 35V
C728	0244501	CD 1000PF + -10% 500V	C914	0800003	EL 1MF 50V
C730	0800076	EL 470MF 31.5V	C915	0880057	PF 0.1MF + -10% 50V
C731	0244509	CD 4700PF + -10% 500V	C916	0800049	EL 100MF 16V
C731A	0243506	CD 270PF + -10% 500V	C917	0880037	PF 3300PF + -10% 50V
C732	0800075	EL 470MF 25V	C918	0880044	PF 0.01MF + -10% 50V
C733	0800056	EL 220MF 6.3V	C919	0299009	PP 2200PF + -5% 100V
C737	0800055	EL 100MF 100V	C920	0800015	EL 10MF 16V
C738	0259171	EL 4.7MF 250V	C921	0890074	CD 100PF + -5% 50V
C739	0800015	EL 10MF 16V	C922	0800005	EL 2.2MF 50V
C741	0248692	CD 220PF + -5% 50V	C923	0890082	CD 390PF + -10% 50V
C742	0254822	EL 100M 160V	C924	0890081	CD 330PF + -10% 50V
C743	0800003	EL 1MF 50V	C925	0880053	PF 0.047MF + -10% 50V
C747	0880057	PF 0.1MF + -10% 50V	C926	0890077	CD 180PF + -10% 50V
C748	0249137	CD 100PF + -10%	C927	0243506	CD 270PF + -10% 500V
C750	0800005	EL 2.2MF 50V	C928	0247856	CD 120PF + -5% 500V
C751	0800044	EL 47MF 50V	C929	0279849	PF 0.015MF + -10% 100V
C752	0252419	EL3.3MF 50V	C930	0800006	EL 2.2MF 100V
C754	0800073	EL 470MF 10V	C935	0244505	CD 2200PF + -10% 500V
C755	0800041	EL 47MF 16V	C936	0243509	CD 470PF + -10% 500V
C756	0800024	EL 22MF 25V	C937	0299001	PP 0.001MF + -2% 100V
C770	0800007	EL 3.3MF 50V	C938	0880035	PF 2200PF + -10% 50V
C771	0800001	EL 0.47MF 50V	C951	0800055	EL 100MF 100V
C772	0800049	EL 100MF 16V	C953	0800074	EL 470MF 16V
C777	0243512	CD 820PF + -10% 500V	C954	0800083	EL 1000MF 25V
C778	0244505	CD 2200PF + -10% 500V	C955	0800016	EL 10MF 25V
C779	0880035	PF 2200PF + -10% 50V	C956	0800047	EL 100MF 6.3V
C851	0800049	EL 100MF 16V	C957	0244565	CD 4700PF + 100-0% 500V
C852	0890087	CD 1000PF + -10% 50V	C958	0800053	EL 100MF 50V
C853	0257540	EL 4.7MF 250V	C959	0800075	EL 470MF 25V
C856	0244215	CD 2200PF + -10% 2KV	C969	0249391	CD 1000PF + -10%
C857	0244509	CD 4700PF + -10% 500V	C980	0244109	CD 4700PF + -10% 50V
C858	0244509	CD 4700PF + -10% 500V	C981	0244109	CD 4700PF + -10% 50V
C859	0244509	CD 4700PF + -10% 500V	C982	0244109	CD 4700PF + -10% 50V
C860	0890087	CD 1000PF + -10% 50V	C983	0244109	CD 4700PF + -10% 50V
C861	0890087	CD 1000PF + -10% 50V	C984	0258603	EL 3300MF 35V
C862	0890087	CD 1000PF + -10% 50V	RESISTORS		
C863	0244141	CD 0.01MF + -10% 50V	R0101	0700041	CF 1K OHM + -5% 1/16W
C865	0890087	CD 1000PF + -10% 50V	R0102	0700045	CF 2.2K OHM + -5% 1/16W
C867	0890087	CD 1000PF + -10% 50V	R0103	0700054	CF 10K OHM + -5% 1/16W
C870	0244139	CD 1000PF + -10% 50V	R0104	0700041	CF 1K OHM + -5% 1/16W
C871	0244105	CD 2200PF + -10% 50V			

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SYSMBOL NO.	PART NO.	DESCRIPTION	SYSMBOL NO.	PART NO.	DESCRIPTION
R0105	0700041	CF 1K OHM + -5% 1/16W	R0166	0700041	CF 1K OHM + -5% 1/16W
R0106	0700041	CF 1K OHM + -5% 1/16W	R0167	0700041	CF 1K OHM + -5% 1/16W
R0107	0700041	CF 1K OHM + -5% 1/16W	R0168	0700041	CF 1K OHM + -5% 1/16W
R0108	0187062	CF 750 OHM + -5% 1/16W	R0170	0700054	CF 10K OHM + -5% 1/16W
R0109	0700032	CF 220 OHM + -5% 1/16W	R0171	0700054	CF 10K OHM + -5% 1/16W
R0110	0700041	CF 1K OHM + -5% 1/16W	R0173	0700036	CF 470 OHM + -5% 1/16W
R0111	0700041	CF 1K OHM + -5% 1/16W	R0174	0700064	CF 56K OHM + -5% 1/16W
R0112	0700041	CF 1K OHM + -5% 1/16W	R0175	0700051	CF 5.6K OHM + -5% 1/16W
R0113	0700041	CF 1K OHM + -5% 1/16W	R0176	0700049	CF 4.7K OHM + -5% 1/16W
R0114	0187092	CF 13K OHM + -5% 1/16W	R0177	0700045	CF 2.2K OHM + -5% 1/16W
R0115	0700047	CF 3.3K OHM + -5% 1/16W	R0178	0700067	CF 100K OHM + -5% 1/16W
R0116	0700067	CF 100K OHM + -5% 1/16W	R0179	0700058	CF 22K OHM + -5% 1/16W
R0117	0700067	CF 100K OHM + -5% 1/16W	R0180	0700054	CF 10K OHM + -5% 1/16W
R0118	0700067	CF 100K OHM + -5% 1/16W	R0181	0700054	CF 10K OHM + -5% 1/16W
R0119	0700067	CF 100K OHM + -5% 1/16W	R0182	0700061	CF 33K OHM + -5% 1/16W
R0120	0187076	CF 3K OHM + -5% 1/16W	R0183	0700058	CF 22K OHM + -5% 1/16W
R0121	0187062	CF 750 OHM + -5% 1/16W	R0184	0700054	CF 10K OHM + -5% 1/16W
R0122	0187068	CF 1.3K OHM + -5% 1/16W	R0185	0700054	CF 10K OHM + -5% 1/16W
R0123	0700046	CF 2.7K OHM + -5% 1/16W	R0186	0700066	CF 82K OHM + -5% 1/16W
R0124	0700053	CF 8.2K OHM + -5% 1/16W	R0187	0700047	CF 3.3K OHM + -5% 1/16W
R0126	0700037	CF 560 OHM + -5% 1/16W	R0188	0700049	CF 4.7K OHM + -5% 1/16W
R0127	0187062	CF 750 OHM + -5% 1/16W	R0189	0700031	CF 180 OHM + -5% 1/16W
R0128	0700041	CF 1K OHM + -5% 1/16W	R0190	0700058	CF 22K OHM + -5% 1/16W
R0129	0700044	CF 1.8K OHM + -5% 1/16W	R0191	0700067	CF 100K OHM + -5% 1/16W
R0130	0187076	CF 3K OHM + -5% 1/16W	R0192	0700049	CF 4.7K OHM + -5% 1/16W
R0131	0700052	CF 6.8K OHM + -5% 1/16W	R0193	0700041	CF 1K OHM + -5% 1/16W
R0134	0700055	CF 12K OHM + -5% 1/16W	R0194	0700041	CF 1K OHM + -5% 1/16W
R0135	0700063	CF 47K OHM + -5% 1/16W	R0195	0700041	CF 1K OHM + -5% 1/16W
R0136	0187100	CF 30K OHM + -5% 1/16W	R0196	0700041	CF 1K OHM + -5% 1/16W
R0137	0700063	CF 47K OHM + -5% 1/16W	R0197	0700067	CF 100K OHM + -5% 1/16W
R0138	0700055	CF 12K OHM + -5% 1/16W	R0198	0700067	CF 100K OHM + -5% 1/16W
R0139	0700055	CF 12K OHM + -5% 1/16W	R0199	0700067	CF 100K OHM + -5% 1/16W
R0140	0700055	CF 12K OHM + -5% 1/16W	R0201	0700067	CF 100K OHM + -5% 1/16W
R0141	0700064	CF 56K OHM + -5% 1/16W	R0202	0100067	CF 1.2K OHM + -5% 1/8W
R0142	0700064	CF 56K OHM + -5% 1/16W	R0203	0700054	CF 10K OHM + -5% 1/16W
R0143	0700063	CF 47K OHM + -5% 1/16W	R0206	0700054	CF 10K OHM + -5% 1/16W
R0144	0700055	CF 12K OHM + -5% 1/16W	R0208	0700049	CF 4.7K OHM + -5% 1/16W
R0145	0700041	CF 1K OHM + -5% 1/16W	R0209	0700052	CF 6.8K OHM + -5% 1/16W
R0146	0700041	CF 1K OHM + -5% 1/16W	R0214	0700054	CF 10K OHM + -5% 1/16W
R0147	0700041	CF 1K OHM + -5% 1/16W	R0215	0700048	CF 3.9K OHM + -5% 1/16W
R0148	0700041	CF 1K OHM + -5% 1/16W	R0216	0700056	CF 15K OHM + -5% 1/16W
R0149	0700041	CF 1K OHM + -5% 1/1			

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SYSMBOL NO.	PART NO.	DESCRIPTION	SYSMBOL NO.	PART NO.	DESCRIPTION
R0238	0100079	CF 3.9K OHM + -5% 1/8W	R0421	0700041	CF 1KOHM + -5% 1/16W
R0239	0100065	CF 1K OHM + -5% 1/8W	R0422	0100065	CF 1KOHM + -5% 1/8W
R0240	0100065	CF 1K OHM + -5% 1/8W	R0423	0100065	CF 1KOHM + -5% 1/8W
R0241	0100065	CF 1K OHM + -5% 1/8W	R0426	0700054	CF 10K OHM + -5% 1/16W
R0242	0100065	CF 1K OHM + -5% 1/8W	R0429	0187080	CF 4.3K OHM + -5% 1/16W
R0245	0100089	CF 10K OHM + -5% 1/8W	R0430	0187080	CF 4.3K OHM + -5% 1/16W
R0246	0700032	CF 220 OHM + -5% 1/16W	R0432	0700051	CF 5.6K OHM + -5% 1/16W
R0247	0700032	CF 220 OHM + -5% 1/16W	R0433	0114133	CF 120 OHM + -5% 1/4W
R0248	0700051	CF 5.6K OHM + -5% 1/16W	R0434	0100121	CF 220K OHM + -5% 1/8W
R0249	0700047	CF 3.3K OHM + -5% 1/16W	R0435	0100133	CF 680K OHM + -5% 1/8W
R0250	0700064	CF 56K OHM + -5% 1/16W	R0436	0119514	FR 10 OHM + -5% 1/4W
R0251	0700054	CF 10K OHM + -5% 1/16W	R0501	0113725	CF 100 OHM + -5% 1/2W
R0253	0114053	CF 33 OHM + -5% 1/4W	R0502	0187026	CF 24 OHM + -5% 1/16W
R0255	0700041	CF 1K OHM + -5% 1/16W	R0504	0100049	CF 220 OHM + -5% 1/8W
R0256	0700041	CF 1K OHM + -5% 1/16W	R0505	0100049	CF 220 OHM + -5% 1/8W
R0257	0700041	CF 1K OHM + -5% 1/16W	R0506	0100049	CF 220 OHM + -5% 1/8W
R0259	0700058	CF 22K OHM + -5% 1/16W	R0507	0100049	CF 220 OHM + -5% 1/8W
R0260	0700058	CF 22K OHM + -5% 1/16W	R0508	0100049	CF 220 OHM + -5% 1/8W
R0261	0700054	CF 10K OHM + -5% 1/16W	R0509	0100049	CF 220 OHM + -5% 1/8W
R0263	0700058	CF 22K OHM + -5% 1/16W	R0513	0700041	CF 1K OHM + -5% 1/16W
R0264	0700058	CF 22K OHM + -5% 1/16W	R0514	0700041	CF 1K OHM + -5% 1/16W
R0265	0700058	CF 22K OHM + -5% 1/16W	R0515	0700041	CF 1K OHM + -5% 1/16W
R0266	0700058	CF 22K OHM + -5% 1/16W	R0521	0100049	CF 220 OHM + -5% 1/8W
R0267	0100097	CF 22K OHM + -5% 1/8W	R0522	0100049	CF 220 OHM + -5% 1/8W
R0268	0700027	CF 100 OHM + -5% 1/16W	R0523	0100049	CF 220 OHM + -5% 1/8W
R0269	0700047	CF 3.3K OHM + -5% 1/16W	R0524	0100049	CF 220 OHM + -5% 1/8W
R0270	0700041	CF 1K OHM + -5% 1/16W	R0525	0100049	CF 220 OHM + -5% 1/8W
R0271	0700041	CF 1K OHM + -5% 1/16W	R0528	0114062	CF 75 OHM + -5% 1/4W
R0272	0700041	CF 1K OHM + -5% 1/16W	R0534	0100089	CF 10KOHM + -5% 1/8W
R0273	0700041	CF 1K OHM + -5% 1/16W	R0541	0100095	CF 18KOHM + -5% 1/8W
R0274	0700041	CF 1K OHM + -5% 1/16W	R0542	0100049	CF 220 OHM + -5% 1/8W
R0277	0700041	CF 1K OHM + -5% 1/16W	R0544	0114062	CF 75 OHM + -5% 1/4W
R0278	0700041	CF 1K OHM + -5% 1/16W	R0545	0700058	CF 22KOHM + -5% 1/16W
R0279	0700041	CF 1K OHM + -5% 1/16W	R0546	0100059	CF 560 OHM + -5% 1/8W
R0280	0700041	CF 1K OHM + -5% 1/16W	R102	0113725	CF 100 OHM + -5% 1/2W
R0401	0150286	VR 5K OHM B	R103	01195051	FR 2.2 OHM + -5% 1/4W
R0403	0100017	CF 150K OHM + -5% 1/8W	R104	0100057	CF 470 OHM + -5% 1/8W
R0404	0700059	CF 27K OHM + -5% 1/16W	R151	0100065	CF 1K OHM + -5% 1/8W
R0405	0150138	VR 20K OHM-B	R151A	0700022	CF 39 OHM + -5% 1/16W
R0406	0187074	CF 2.4K OHM + -5% 1/16W	R3001	0100038	CF 75 OHM + -5% 1/8W
R0407	0700036	CF 470 OHM + -5% 1/16W	R3002	0100041	CF 100 OHM + -5% 1/8W
R0408	0150286	VR 5K OHM B	R3003	0100038	CF 75 OHM + -5% 1/8W
R0409	0150286	VR 5K OHM B	R3004	0100041	CF 100 OHM + -5% 1/8W
R0410A	0700064	CF 56K OHM + -5% 1/16W	R3005	0100113	CF 100K OHM + -5% 1/8W
R0410B	0700064	CF 56K OHM + -5% 1/16W	R3006	0100037	CF 68 OHM + -5% 1/8W
R0411	0700054	CF 10K OHM + -5% 1/16W	R3007	0100041	CF 100 OHM + -5% 1/8W
R0412	0700054	CF 10K OHM + -5% 1/16W	R3008	0113733	CF 220 OHM + -5% 1/2W
R0413	0700054	CF 10K OHM + -5% 1/16W	R3009	0113725	CF 100 OHM + -5% 1/2W
R0414	0700046	CF 2.7K OHM + -5% 1/16W	R301	0700032	CF 220 OHM + -5% 1/16W
R0415	0700054	CF 10K OHM + -5% 1/16W	R3010	0100038	CF 75 OHM + -5% 1/8W
R0416	0700054	CF 10K OHM + -5% 1/16W	R3011	0100041	CF 100 OHM + -5% 1/8W
R0417	0700038	CF 680 OHM + -5% 1/16W	R3012	0700054	CF 10K OHM + -5% 1/16W
R0418	0700038	CF 680 OHM + -5% 1/16W	R3013	0700048	CF 3.9K OHM + -5% 1/16W
R0419	0700066	CF 82K OHM + -5% 1/16W	R3014	0187052	CF 300 OHM + -5% 1/16W
R0420	0150139	VR 50K OHM-B	R3015	0187052	CF 300 OHM + -5% 1/16W

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SYSMBOL NO.	PART NO.	DESCRIPTION	SYSMBOL NO.	PART NO.	DESCRIPTION
R3016	0100038	CF 75 OHM + -5% 1/8W	R319	0700054	CF 10K OHM + -5% 1/16W
R3017	0100041	CF 100 OHM + -5% 1/8W	R320	0700056	CF 15K OHM + -5% 1/16W
R3018	0700054	CF 10K OHM + -5% 1/16W	R321	0700054	CF 10K OHM + -5% 1/16W
R3019	0700048	CF 3.9K OHM + -5% 1/16W	R322	0700048	CF 3.9K OHM + -5% 1/16W
R302	0700062	CF 39K OHM + -5% 1/16W	R323	0700051	CF 5.6K OHM + -5% 1/16W
R3020	0187052	CF 300 OHM + -5% 1/16W	R325	0700067	CF 100K OHM + -5% 1/16W
R3021	0700041	CF 1K OHM + -5% 1/16W	R327	0100127	CF 390K OHM + -5% 1/8W
R3022	0700041	CF 1K OHM + -5% 1/16W	R328	0187106	CF 51K OHM + -5% 1/16W
R3025	0700064	CF 56K OHM + -5% 1/16W	R329	0700059	CF 27K OHM + -5% 1/16W
R3026	0700035	CF 390 OHM + -5% 1/16W	R330	0700049	CF 4.7K OHM + -5% 1/16W
R3027	0700034	CF 330 OHM + -5% 1/16W	R332	0100123	CF 270K OHM + -5% 1/8W
R303	0700054	CF 10K OHM + -5% 1/16W	R333	0700054	CF 10K OHM + -5% 1/16W
R3031	0700063	CF 47K OHM + -5% 1/16W	R334	0700041	CF 1K OHM + -5% 1/16W
R3032	0700063	CF 47K OHM + -5% 1/16W	R335	0700034	CF 330 OHM + -5% 1/16W
R3033	0700039	CF 820 OHM + -5% 1/16W	R336	0700048	CF 3.9K OHM + -5% 1/16W
R3034	0700037	CF 560 OHM + -5% 1/16W	R337	0700046	CF 2.7K OHM + -5% 1/16W
R3035	0700037	CF 560 OHM + -5% 1/16W	R338	0700027	CF 100 OHM + -5% 1/16W
R3036	0114137	CF 180 OHM + -5% 1/4W	R339	0100053	CF 330 OHM + -5% 1/8W
R3037	0700038	CF 680 OHM + -5% 1/16W	R340	0700014	CF 10 OHM + -5% 1/16W
R3038	0700037	CF 560 OHM + -5% 1/16W	R341	0700047	CF 3.3K OHM + -5% 1/16W
R3039	0700032	CF 220 OHM + -5% 1/16W	R342	0114145	CF 390 OHM + -5% 1/4W
R304	0100059	CF 560 OHM + -5% 1/8W	R343	0700045	CF 2.2K OHM + -5% 1/16W
R3040	0700038	CF 680 OHM + -5% 1/16W	R345	0700054	CF 10K OHM + -5% 1/16W
R3041	0150283	VR 1K OHM-B	R351	0700031	CF 180 OHM + -5% 1/16W
R3042	0700041	CF 1K OHM + -5% 1/16W	R352	0700051	CF 5.6K OHM + -5% 1/16W
R3043	0700037	CF 560 OHM + -5% 1/16W	R354	0700054	CF 10K OHM + -5% 1/16W
R3044	0700045	CF 2.2K OHM + -5% 1/16W	R355	0700045	CF 2.2K OHM + -5% 1/16W
R3045	0150286	VR 5K OHM B	R356	0700047	CF 3.3K OHM + -5% 1/16W
R3046	0700032	CF 220 OHM + -5% 1/16W	R357	0700057	CF 18K OHM + -5% 1/16W
R3047	0700041	CF 1K OHM + -5% 1/16W	R358	0150287	VR 10K OHM-B
R3048	0700041	CF 1K OHM + -5% 1/16W	R359	0700059	CF 27K OHM + -5% 1/16W
R3049	0700063	CF 47K OHM + -5% 1/16W	R361	0700051	CF 5.6K OHM + -5% 1/16W
R305	0100125	CF 330K OHM + -5% 1/8W	R362	0700054	CF 10K OHM + -5% 1/16W
R3050	0700063	CF 47K OHM + -5% 1/16W	R363	0700054	CF 10K OHM + -5% 1/16W
R3052	0700027	CF 100 OHM + -5% 1/16W	R364	0700047	CF 3.3K OHM + -5% 1/16W
R3053	0700041	CF 1K OHM + -5% 1/16W	R366	0700027	CF 100 OHM + -5% 1/16W
R3054	0700037	CF 560 OHM + -5% 1/16W	R367	0187048	CF 200 OHM + -5% 1/16W
R3055	0150282	VR 500 OHM(B)	R370	0700041	CF 1K OHM + -5% 1/16W
R3056	0700037	CF 560 OHM + -5% 1/16W	R371	0700054	CF 10K OHM + -5% 1/16W
R3057	0700045</				

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SYSMBOL NO.	PART NO.	DESCRIPTION	SYSMBOL NO.	PART NO.	DESCRIPTION
R4009	0100065	CF 1K OHM + -5% 1/8W	R4505	0700058	CF 22K OHM + -5% 1/16W
R4010	0100065	CF 1K OHM + -5% 1/8W	R4506	0700054	CF 10K OHM + -5% 1/16W
R4011	0100113	CF 100K OHM + -5% 1/8W	R4507	0700067	CF 100K OHM + -5% 1/16W
R4012	0100113	CF 100K OHM + -5% 1/8W	R4508	0700067	CF 100K OHM + -5% 1/16W
R4013	0100065	CF 1K OHM + -5% 1/8W	R4509	0700067	CF 100K OHM + -5% 1/16W
R4014	0100065	CF 1K OHM + -5% 1/8W	R4510	0700064	CF 56K OHM + -5% 1/16W
R4015	0100113	CF 100K OHM + -5% 1/8W	R4511	0700064	CF 56K OHM + -5% 1/16W
R4016	0100113	CF 100K OHM + -5% 1/8W	R4512	0700067	CF 100K OHM + -5% 1/16W
R402	0100049	CF 220 OHM + -5% 1/8W	R4513	0700067	CF 100K OHM + -5% 1/16W
R4023	0700067	CF 100K OHM + -5% 1/16W	R4514	0700067	CF 100K OHM + -5% 1/16W
R4024	0700067	CF 100K OHM + -5% 1/16W	R4515	0700067	CF 100K OHM + -5% 1/16W
R4025	0700041	CF 1K OHM + -5% 1/16W	R4516	0700067	CF 100K OHM + -5% 1/16W
R4026	0700067	CF 100K OHM + -5% 1/16W	R4517	0700067	CF 100K OHM + -5% 1/16W
R4027	0700067	CF 100K OHM + -5% 1/16W	R4518	0700067	CF 100K OHM + -5% 1/16W
R4028	0700041	CF 1K OHM + -5% 1/16W	R4519	0700067	CF 100K OHM + -5% 1/16W
R403	01195051	FR 2.2 OHM + -5% 1/4W	R4520	0700067	CF 100K OHM + -5% 1/16W
R4031	0100049	CF 220 OHM + -5% 1/8W	R4521	0700067	CF 100K OHM + -5% 1/16W
R4032	0100049	CF 220 OHM + -5% 1/8W	R4522	0700057	CF 100K OHM + -5% 1/16W
R4033	0100061	CF 680 OHM + -5% 1/8W	R4523	0700057	CF 100K OHM + -5% 1/16W
R4034	0100061	CF 680 OHM + -5% 1/8W	R4524	0700067	CF 100K OHM + -5% 1/16W
R4039	0113725	CF 100 OHM + -5% 1/2W	R4526	0700067	CF 100K OHM + -5% 1/16W
R404	01195051	FR 2.2 OHM + -5% 1/4W	R4527	0700067	CF 100K OHM + -5% 1/16W
R4040	0100065	CF 1K OHM + -5% 1/8W	R4528	0700067	CF 100K OHM + -5% 1/16W
R4041	0100065	CF 1K OHM + -5% 1/8W	R4529	0700067	CF 100K OHM + -5% 1/16W
R4042	0100065	CF 1K OHM + -5% 1/8W	R4530	0700047	CF 3.3K OHM + -5% 1/16W
R4043	0100065	CF 1K OHM + -5% 1/8W	R4531	0700067	CF 100K OHM + -5% 1/16W
R4044	0100049	CF 220 OHM + -5% 1/8W	R4532	0700054	CF 10K OHM + -5% 1/16W
R4045	0100049	CF 220 OHM + -5% 1/8W	R4533	0113725	CF 100 OHM + -5% 1/2W
R405	0700067	CF 100K OHM + -5% 1/16W	R4534	0700067	CF 100K OHM + -5% 1/16W
R406	0100059	CF 560 OHM + -5% 1/8W	R4535	0700067	CF 100K OHM + -5% 1/16W
R407	0700058	CF 22K OHM + -5% 1/16W	R4536	0700051	CF 5.6K OHM + -5% 1/16W
R408	0700051	CF 5.6K OHM + -5% 1/16W	R4537	0700051	CF 5.6K OHM + -5% 1/16W
R4101	0100065	CF 1K OHM + -5% 1/8W	R4538	0700063	CF 47K OHM + -5% 1/16W
R4102	0700027	CF 100 OHM + -5% 1/16W	R4539	0700045	CF 2.2K OHM + -5% 1/16W
R4103	0700047	CF 3.3K OHM + -5% 1/16W	R4540	0150136	VR 5K OHM-B
R4104	0700047	CF 3.3K OHM + -5% 1/16W	R4541	0700045	CF 2.2K OHM + -5% 1/16W
R4105	0700064	CF 56K OHM + -5% 1/16W	R4542	0700041	CF 1K OHM + -5% 1/16W
R4106	0700055	CF 12K OHM + -5% 1/16W	R4543	0700063	CF 47K OHM + -5% 1/16W
R4107	0700041	CF 1K OHM + -5% 1/16W	R4544	0700066	CF 82K OHM + -5% 1/16W
R4108	0700033	CF 270 OHM + -5% 1/16W	R4545	0700052	CF 6.8K OHM + -5% 1/16W
R4109	0700064	CF 55K OHM + -5% 1/16W	R4546	0700053	CF 8.2K OHM + -5% 1/16W
R4110	0700055	CF 12K OHM + -5% 1/16W	R4547	0700056	CF 15K OHM + -5% 1/16W
R4111	0700041	CF 1K OHM + -5% 1/16W	R4548	0700049	CF 4.7K OHM + -5% 1/16W
R4112	0700033	CF 270 OHM + -5% 1/16W	R4549	0700053	CF 8.2K OHM + -5% 1/16W
R4113	0700032	CF 220 OHM + -5% 1/16W	R4550	0700053	CF 8.2K OHM + -5% 1/16W
R4114	0700032	CF 220 OHM + -5% 1/16W	R4551	0700067	CF 100K OHM + -5% 1/16W
R4115	0700052	CF 6.8K OHM + -5% 1/16W	R4552	0700041	CF 1K OHM + -5% 1/16W
R4116	0700052	CF 6.8K OHM + -5% 1/16W	R4553	0700045	CF 2.2K OHM + -5% 1/16W
R4117	0700063	CF 47K OHM + -5% 1/16W	R4554	0187096	CF 20K OHM + -5% 1/16W
R412	0114161	CF 1K OHM + -5% 1/4W	R4555	0187096	CF 20K OHM + -5% 1/16W
R413	0114161	CF 1K OHM + -5% 1/4W	R4556	0114145	CF 390 OHM + -5% 1/4W
R4501	0100097	CF 22K OHM + -5% 1/8W	R4557	0114145	CF 390 OHM + -5% 1/4W
R4502	0700058	CF 22K OHM + -5% 1/16W	R4558	0700054	CF 10K OHM + -5% 1/16W
R4503	0700054	CF 10K OHM + -5% 1/16W	R4559	0700054	CF 10K OHM + -5% 1/16W
R4504	0100097	CF 22K OHM + -5% 1/8W	R4560	0119514	FR 10 OHM + -5% 1/4W

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SYSMBOL NO.	PART NO.	DESCRIPTION	SYSMBOL NO.	PART NO.	DESCRIPTION
R4561	0700031	CF 180 OHM + -5% 1/16W	R505	0700066	CF 82K OHM + -5% 1/16W
R4562	0100077	CF 3.3K OHM + -5% 1/8W	R506	0700066	CF 82K OHM + -5% 1/16W
R4563	0100117	CF 150K OHM + -5% 1/8W	R507	0100049	CF 220 OHM + -5% 1/8W
R4564	0100123	CF 270K OHM + -5% 1/8W	R508	0100049	CF 220 OHM + -5% 1/8W
R4565	0700063	CF 47K OHM + -5% 1/16W	R509	0100049	CF 220 OHM + -5% 1/8W
R4567	0187100	CF 30K OHM + -5% 1/16W	R510	0700063	CF 47K OHM + -5% 1/16W
R4568	0700064	CF 56K OHM + -5% 1/16W	R511	0700059	CF 27K OHM + -5% 1/16W
R4569	01195051	FR 2.2 OHM + -5% 1/4W	R512	0700067	CF 100K OHM + -5% 1/16W
R4570	0100049	CF 220 OHM + -5% 1/8W	R513	0700054	CF 10K OHM + -5% 1/16W
R4571	0700046	CF 2.7K OHM + -5% 1/16W	R514	0187080	CF 4.3K OHM + -5% 1/16W
R4572	0700049	CF 4.7K OHM + -5% 1/16W	R515	0700052	CF 6.8K OHM + -5% 1/16W
R4573	0100049	CF 220 OHM + -5% 1/8W	R516	0700049	CF 4.7K OHM + -5% 1/16W
R4574	0700046	CF 2.7K OHM + -5% 1/16W	R517	0700032	CF 220 OHM + -5% 1/16W
R4575	0700049	CF 4.7K OHM + -5% 1/16W	R519	0700041	CF 1K OHM + -5% 1/16W
R4576	0100049	CF 220 OHM + -5% 1/8W	R520	0700037	CF 560 OHM + -5% 1/16W
R4577	0100049	CF 220 OHM + -5% 1/8W	R521	0700066	CF 82K OHM + -5% 1/16W
R4578	0100049	CF 220 OHM + -5% 1/8W	R522	0700054	CF 10K OHM + -5% 1/16W
R4579	0100049	CF 220 OHM + -5% 1/8W	R523	0700054	CF 10K OHM + -5% 1/16W
R4580	0100049	CF 220 OHM + -5% 1/8W	R524	0700054	CF 10K OHM + -5% 1/16W
R4581	0100067	CF 1.2K OHM + -5% 1/8W	R527	0700054	CF 10K OHM + -5% 1/16W
R4582	0100097	CF 22K OHM + -5% 1/8W	R528	0100117	CF 150K OHM + -5% 1/8W
R4583	0700051	CF 5.6K OHM + -5% 1/16W	R529	0700054	CF 10K OHM + -5% 1/16W
R4584	0700041	CF 1K OHM + -5% 1/16W	R530	0700065	CF 68K OHM + -5% 1/16W
R4585	0700041	CF 1K OHM + -5% 1/16W	R531	0100125	CF 330K OHM + -5% 1/8W
R4601	0700051	CF 5.6K OHM + -5% 1/16W	R532	0700054	CF 10K OHM + -5% 1/16W
R4602	0700051	CF 5.6K OHM + -5% 1/16W	R533	0700041	CF 1K OHM + -5% 1/16W
R4603	0700041	CF 1K OHM + -5% 1/16W	R601	0700027	CF 100 OHM + -5% 1/16W
R4604	0700041	CF 1K OHM + -5% 1/16W	R602	0700027	CF 100 OHM + -5% 1/16W
R4605	0700038	CF 680 OHM + -5% 1/16W	R603	0100111	CF 82K OHM + -5% 1/8W
R4606	0187052	CF 300 OHM + -5% 1/16W	R604	0700034	CF 330 OHM + -5% 1/16W
R4607	0700036	CF 470 OHM + -5% 1/16W	R605	0700054	CF 10K OHM + -5% 1/16W
R4608	0700041	CF 1K OHM + -5% 1/16W	R606	0700059	CF 27K OHM + -5% 1/16W
R4609	0700067	CF 100K OHM + -5% 1/16W	R607	0700063	CF 47K OHM + -5% 1/16W
R4610	0700038	CF 680 OHM + -5% 1/16W	R608	0700054	CF 10K OHM + -5% 1/16W
R4611	0187052	CF 300 OHM + -5% 1/16W	R609	0150280	VR 200 OHM-B
R4612	0700036	CF 470 OHM + -5% 1/16W	R610	0700029	CF 150 OHM + -5% 1/16W
R4613	0700041	CF 1K OHM + -5% 1/16W	R611	01136911	CF 4.3 OHM + -5% 1/2W
R4614	0700067	CF 1K OHM + -5% 1/16W	R612	01136911	CF 4.3 OHM +

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SYSMBOL NO.	PART NO.	DESCRIPTION	SYSMBOL NO.	PART NO.	DESCRIPTION
R651	0700064	CF 56K OHM + -5% 1/16W	R743	0700048	CF 3.9K OHM + -5% 1/16W
R652	0700064	CF 56K OHM + -5% 1/16W	R744	0110207	MF 27 OHM + -5% 2W
R653	0700064	CF 56K OHM + -5% 1/16W	 R745	0700054	CF 10K OHM + -5% 1/16W
R654	0700053	CF 8.2K OHM + -5% 1/16W	 R746	0700053	CF 8.2K OHM + -5% 1/16W
R655	0700057	CF 18K OHM + -5% 1/16W	R747	0110147	MF 1.2K OHM + -5% 1W
R656	0700047	CF 3.3K OHM + -5% 1/16W	R748	0187026	CF 24 OHM + -5% 1/16W
R657	0114138	CF 200 OHM + -5% 1/4W	R750	0100073	CF 2.2K OHM + -5% 1/8W
R658	0100123	CF 270K OHM + -5% 1/8W	R751	0700063	CF 47K OHM + -5% 1/16W
R661	0700042	CF 1.2K OHM + -5% 1/16W	R752	0150309	VR 100K OHM-B
R662	0110135	MF 390 OHM + -5% 1W	R753	0187090	CF 11K OHM + -5% 1/16W
R663	0700048	CF 3.9K OHM + -5% 1/16W	R754	0700036	CF 470 OHM + -5% 1/16W
R664	0100061	CF 680 OHM + -5% 1/8W	R755	0150306	VR 20K OHM-B
R665	0700064	CF 56K OHM + -5% 1/16W	R756	0700057	CF 18K OHM + -5% 1/16W
R666	0700067	CF 100K OHM + -5% 1/16W	R757	0700056	CF 15K OHM + -5% 1/16W
R667	0100129	CF 470K OHM + -5% 1/8W	R758	0700048	CF 3.9K OHM + -5% 1/16W
R668	0700062	CF 39K OHM + -5% 1/16W	R759	0700064	CF 56K OHM + -5% 1/16W
R669	0700067	CF 100K OHM + -5% 1/16W	R760	0700065	CF 68K OHM + -5% 1/16W
R670	0100133	CF 680K OHM + -5% 1/8W	R762	0700053	CF 8.2K OHM + -5% 1/16W
R701	0700046	CF 2.7K OHM + -5% 1/16W	R763	0110271	MF 12K OHM + -5% 2W
R702	0700024	CF 56 OHM + -5% 1/16W	R764	0100089	CF 10K OHM + -5% 1/8W
R703	0700047	CF 3.3K OHM + -5% 1/16W	R765	0700056	CF 15K OHM + -5% 1/16W
R704	0700034	CF 330 OHM + -5% 1/16W	R766	0700043	CF 1.5K OHM + -5% 1/16W
R706	0700049	CF 4.7K OHM + -5% 1/16W	R767	0700044	CF 1.8K OHM + -5% 1/16W
R707	0700039	CF 820 OHM + -5% 1/16W	R768	0700061	CF 33K OHM + -5% 1/16W
R708	0100117	CF 150K OHM + -5% 1/8W	R769	0700054	CF 10K OHM + -5% 1/16W
R709	0700046	CF 2.7K OHM + -5% 1/16W	R770	0700035	CF 390 OHM + -5% 1/16W
R710	0700045	CF 2.2K OHM + -5% 1/16W	R771	0700042	CF 1.2K OHM + -5% 1/16W
R711	0110249	MF 1.5K OHM + -5% 2W	R772	0700064	CF 56K OHM + -5% 1/16W
R712	0110245	MF 1K OHM + -5% 2W	R773	0700032	CF 220 OHM + -5% 1/16W
R712A	0110255	MF 2.7K OHM + -5% 2W	R774	0700064	CF 56K OHM + -5% 1/16W
R713	0700067	CF 100K OHM + -5% 1/16W	R775	0100061	CF 680 OHM + -5% 1/8W
R714	0700054	CF 10K OHM + -5% 1/16W	R777	0700032	CF 220 OHM + -5% 1/16W
R715	0100129	CF 470K OHM + -5% 1/8W	R778	0100055	CF 390 OHM + -5% 1/8W
R716	0113754	CF 1.5K OHM + -5% 1/2W	R779	0700041	CF 1K OHM + -5% 1/16W
R717	0700067	CF 100K OHM + -5% 1/16W	R780	0700043	CF 1.5K OHM + -5% 1/16W
R718	0100037	CF 68 OHM + -5% 1/8W	R782	0113733	CF 220 OHM + -5% 1/2W
R720	0114143	CF 330 OHM + -5% 1/4WV	R783	0700045	CF 2.2K OHM + -5% 1/16W
 R721	01195121	FR 1 OHM + -5% 1/4W	R784	0700042	CF 1.2K OHM + -5% 1/16W
 R722	0119838	FR 0.5 OHM + -5% 1/4W	R801	0100077	CF 3.3K OHM + -5% 1/8W
 R723	0119838	FR 0.5 OHM + -5% 1/4W	R802	0100089	CF 10K OHM + -5% 1/8W
 R724	01195121	FR 1 OHM + -5% 1/4W	R803	0100073	CF 2.2K OHM + -5% 1/8W
 R725	01195121	FR 1 OHM + -5% 1/4W	R804	0100089	CF 10K OHM + -5% 1/8W
 R726	01195051	FR 2.2 OHM + -5% 1/4W	R805	0100061	CF 680 OHM + -5% 1/8W
R727	0119691	MG 0.33OHM + -5% 1W	R806	0100089	CF 10K OHM + -5% 1/8W
R728	0700044	CF 1.8K OHM + -5% 1/16W	R807	0100089	CF 10K OHM + -5% 1/8W
 R729	0700048	CF 3.9K OHM + -5% 1/16W	R808	0100089	CF 10K OHM + -5% 1/8W
R732	0100077	CF 3.3K OHM + -5% 1/8W	R811	0100087	CF 8.2K OHM + -5% 1/8W
R733	0100073	CF 2.2K OHM + -5% 1/8W	R812	0100087	CF 8.2K OHM + -5% 1/8W
R734	0110139	MF 560 OHM + -5% 1W	R813	0100087	CF 8.2K OHM + -5% 1/8W
R735	010149	MF 1.5 KOHM + -5% 1W	R821	0100041	CF 100 OHM + -5% 1/8W
 R736	0700032	CF 220 OHM + -5% 1/16W	R851	0110367	MF 8.2K OHM + -5% 3W
R737	0100057	CF 470 OHM + -5% 1/8W	R852	0110367	MF 8.2K OHM + -5% 3W
R738	0100099	CF 27K OHM + -5% 1/8W	R853	0110367	MF 8.2K OHM + -5% 3W
 R740	0700053	CF 8.2K OHM + -5% 1/16W	R854	0113766	CF 4.7K OHM + -5% 1/2W
R742	0114285	CF 150K OHM + -5% 1/4VV	R856	0113766	CF 4.7K OHM + -5% 1/2W

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
R855	0113766	CF 4.7K OHM + -5% 1/2W	R914	0110277	MF 22K OHM + -5% 2W
R857	0113766	CF 4.7K OHM + -5% 1/2W	R915	0700031	CF 180 OHM + -5% 1/16W
R858	0113766	CF 4.7K OHM + -5% 1/2W	R916	0119617	MF 2.7K OHM + -1% 1/8W
R859	0113766	CF 4.7K OHM + -5% 1/2W	R917	0119617	MF 2.7K OHM + -1% 1/8W
R860	0100032	CF 43 OHM + -5% 1/8W	R918	0700043	CF 1.5K OHM + -5% 1/16W
R861	0100032	CF 43 OHM + -5% 1/8W	R919	0700067	CF 100K OHM + -5% 1/16W
R862	0100032	CF 43 OHM + -5% 1/8W	R920	0100133	CF 680K OHM + -5% 1/8W
R863	0100032	CF 43 OHM + -5% 1/8W	R921	0187104	CF 43K OHM + -5% 1/16W
R864	0100032	CF 43 OHM + -5% 1/8W	R922	0700054	CF 10K OHM + -5% 1/16W
R865	0100032	CF 43 OHM + -5% 1/8W	R923	0100047	CF 180 OHM + -5% 1/8W
R866	0100093	CF 15K OHM + -5% 1/8W	R924	0700045	CF 2.2K OHM + -5% 1/16W
R867	0100093	CF 15K OHM + -5% 1/8W	R925	0700055	CF 12K OHM + -5% 1/16W
R868	0100093	CF 15K OHM + -5% 1/8W	R926	0700041	CF 1K OHM + -5% 1/16W
R869	0113778	CF 15K OHM + -5% 1/2W	R927	0700057	CF 18K OHM + -5% 1/16W
R870	0113781	CF 18K OHM + -5% 1/2W	R928	0119649	MF 56 KOHM + -1% 1/8W
R871	0113778	CF 15K OHM + -5% 1/2W	R929	0150301	VR 1K OHM-B
R872	0113781	CF 18K OHM + -5% 1/2W	R930	0119617	MF 2.7K OHM + -1% 1/8W
R873	0113778	CF 15K OHM + -5% 1/2W	R931	0700033	CF 270 OHM + -5% 1/16W
R874	0113781	CF 18K OHM + -5% 1/2W	R932	0700045	CF 2.2K OHM + -5% 1/16W
R875	0113750	CF 1K OHM + -5% 1/2W	R933	0700053	CF 8.2K OHM + -5% 1/16W
R876	0113750	CF 1K OHM + -5% 1/2W	R935	0119621	MG 3.9KOHM + -1% 1/8W
R877	0113750	CF 1K OHM + -5% 1/2W	R937	0113791	CF 47K OHM + -5% 1/2W
R878	0100053	CF 330 OHM + -5% 1/8W	R938	0700035	CF 390 OHM + -5% 1/16W
R879	0100053	CF 330 OHM + -5% 1/8W	R940	0700041	CF 1K OHM + -5% 1/16W
R880	0100053	CF 330 OHM + -5% 1/8W	R941	0113766	CF 4.7K OHM + -5% 1/2W
R881	0114131	CF 100 OHM + -5% 1/4W	R942	0110279	MF 27K OHM + -5% 2W
R882	0114131	CF 100 OHM + -5% 1/4W	R942A	0110279	MF 27K OHM + -5% 2W
R883	0114131	CF 100 OHM + -5% 1/4W	R943	0113803	CF 150K OHM + -5% 1/2W
R884	0100061	CF 680 OHM + -5% 1/8W	R944	0700055	CF 12K OHM + -5% 1/16W
R885	0150112	VR 2K OHM-B	R945	0700056	CF 15K OHM + -5% 1/16W
R886	0100041	CF 100 OHM + -5% 1/8W	R946	0114216	CF 43K OHM + -5% 1/4W
R887	0150109	VR 200 OHM-B RS-6	R947	0100117	CF 150K OHM + -5% 1/8W
R888	0100061	CF 680 OHM + -5% 1/8W	R948	0700054	CF 10K OHM + -5% 1/16W
R889	0150112	VR 2K OHM-B	R949	0700054	CF 10K OHM + -5% 1/16W
R890	0100041	CF 100 OHM + -5% 1/8W	R953	0119514	FR 10 OHM + -5% 1/4W
R891	0100042	CF 110 OHM + -5% 1/8W	R954	0700064	CF 56K OHM + -5% 1/16W
R892	0100061	CF 680 OHM + -5% 1/8W	R955	0700067	CF 100K OHM + -5% 1/16W
R893	0150112	VR 2K OHM-B	R956	0700061	CF 33K OHM + -5% 1/16W
R894	0100041	CF 100 OHM + -5% 1/8W	R957	0100111	CF 82K OHM + -5% 1/8W
R895	0100041	CF 100 OHM + -5% 1/8W	R958	0700049	CF 4.7K OHM + -5% 1/16W
R901A	0119508	FR 56 OHM + -5% 1/4W	R959	0100065	CF 1K OHM + -5% 1/8W
R902	0141154	WW 2.2 OHM + -10% 15W	R963	0147068	WWV 68 OHM + -5% 2W
R903	0119651	MG 68 KOHM + -1% 1/8W	R964	0100133	CF 680K OHM + -5% 1/8W
ICs					
		IC0101 2001226	IC MN1872012AHHB-6 (MICON)		
		IC0102 2381111	IC M6M80021L		
		IC0103 2380391	IC UPD6326C		
		IC0401 2000261	IC UPC1871CU		
		IC0501 2917611	ICLA7016		
		IC0502 2917611	ICLA7016		
		IC3001 2916671	ICLA7955		
		IC3002 2383341	ICLVA522S-2		
		IC3003 2383341	ICLVA522S-2		

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SYMBOL NO.	PART NO.	DESCRIPTION	SYMBOL NO.	PART NO.	DESCRIPTION
IC301	2381832	IC HA11559NT	Q304	2320598	TR 2SC458B/C/D
IC401	2912561	IC LA4270	Q305	2320637	TR 2SA673C/D
IC4101	2366392	IC AN5836	Q306	2320598	TR 2SC458B/C/D
IC4501	2362606	IC NJM4558D	Q308	2320598	TR 2SC458B/C/D
IC4502	2362606	IC NJM4558D	Q4003	2320598	TR 2SC458B/C/D
IC4503	2362606	IC NJM4558D	Q4004	2320598	TR 2SC458B/C/D
IC4504	2380041	IC MN3008	Q402	2320598	TR 2SC458B/C/D
IC4505	2380051	IC MN3101	Q4101	2320643	TR 2SC1213C
IC4506	2362654	IC MC14053BCP(DP16)	Q4102	2320596	TR 2SC458C/D
IC4507	2363191	IC HD14066BP	Q4103	2320596	TR 2SC458C/D
IC4508	2366301	IC UPD4052BC	Q4501	2320598	TR 2SC458B/C/D
IC4509	2362606	IC NJM4558D	Q4502	2320598	TR 2SC458B/C/D
IC4510	2362606	IC NJM4558D	Q4503	2320598	TR 2SC458B/C/D
IC4511	2916051	IC TA7629P	Q4504	2320598	TR 2SC458B/C/D
IC4512	2003425	IC UPC7815AHF (LINEAR)	Q4601	2320637	TR 2SA673C/D
IC4601	2366392	IC AN5836	Q4602	2320637	TR 2SA673C/D
IC4602	2912561	IC LA4270	Q4603	2320598	TR 2SC458B/C/D
IC501	2916633	IC HA11511CNT	Q4604	2320598	TR 2SC458B/C/D
IC502	2000391	IC HA11561	Q501	2320598	TR 2SC458B/C/D
IC601	2917361	IC UPC1498H	Q502	2320598	TR 2SC458B/C/D
IC651	2362605	IC BAA4558	Q601	2320598	TR 2SC458B/C/D
IC701	2913891	ICTLP631	Q602	2321351	TR 2SA836/844 D/E
IC702	2366701	IC UPC7812H	Q651	2320598	TR 2SC458B/C/D
IC901	2366721	IC UPC1394C	Q701	2326216	TR 2SC3116 S/T
TRANSISTORS					
Q0101	2320598	TR 2SC458B/C/D	Q702	2327844	TR 2SD1959-02
Q0102	2320637	TR 2SA673C/D	Q703	2320637	TR 2SA673C/D
Q0103	2320598	TR 2SC458B/C/D	Q706	2323434	TR 2SC1983 O/Y
Q0104	2320598	TR 2SC458B/C/D	Q708	2320596	TR 2SC458C/D
Q0105	2320598	TR 2SC458B/C/D	Q750	2320596	TR 2SC458C/D
Q0106	2320598	TR 2SC458B/C/D	Q751	2320637	TR 2SA673C/D
Q0109	2320643	TR 2SC1213C	Q752	2323424	TR 2SC1983 O/Y
Q0111	2320598	TR 2SC458B/C/D	Q770	2320596	TR 2SC458C/D
Q0112	2320598	TR 2SC458B/C/D	Q771	2321351	TR 2SA836/844 D/E
Q0201	2320598	TR 2SC458B/C/D	Q772	2320596	TR 2SC458C/D
Q0401	2320598	TR 2SC458B/C/D	Q851	2320591	TR 2SC458B/C
Q0402	2320598	TR 2SC458B/C/D	Q852	2320591	TR 2SC458B/C
Q0501	2323434	TR 2SC1983 O/Y	Q853	2320591	TR 2SC458B/C
Q0502	2320643	TR 2SC1213C	Q854	2312371	TR 2SC3942
Q101	2323521	TR 2SD789 B/C/D/E	Q855	2312371	TR 2SC3942
Q151	2323521	TR 2SD789 B/C/D/E	Q856	2312371	TR 2SC3942
Q3001	2320643	TR 2SC1213C	Q857	2312371	TR 2SC3942
Q3002	2320598	TR 2SC458B/C/D	Q858	2312371	TR 2SC3942
Q3003	2320598	TR 2SC458B/C/D	Q859	2312371	TR 2SC3942
Q3004	2321351	TR 2SA836/844 D/E	Q860	2312772	TR 2SA1546 M/L
Q3005	2320598	TR 2SC458B/C/D	Q861	2312772	TR 2SA1546 M/L
Q3006	2320598	TR 2SC458B/C/D	Q862	2312772	TR 2SA1546 M/L
Q3007	2320596	TR 2SC458C/D	Q863	2320591	TR 2SC458B/C
Q3008	2320596	TR 2SC458C/D	Q864	2320637	TR 2SA673C/D
Q3009	2320598	TR 2SC458B/C/D	Q865	2320637	TR 2SA673C/D
Q301	2321351	TR 2SA836/844 D/E	Q901	2328455	TRANSISTOR FN651
Q3011	2320596	TR 2SC458B/C/D	Q902	2324322	TR 2SC2271/2SC2610-05
Q302	2320598	TR 2SC458B/C/D	Q903	2321111	TR 2SA778A K
Q303					

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SYSMBOL NO.	PART NO.	DESCRIPTION	SYSMBOL NO.	PART NO.	DESCRIPTION
Q907	2320637	TR 2SA673C/D	D503	23383211	DI 1SS270
Q950	2323522	TR 2SD789 E	D504	23383211	DI 1SS270
Q951	2323522	TR 2SD789 E	D601	23394911	DI AM01Z
Q952	2314391	TR 2SC3708 R/S	D602	23383211	DI 1SS270
Q953	2314381	TR 2SA1450 R/S	D603	23383211	DI 1SS270
DIODES					
D0102	23383211	DI 1SS270	D605	23383211	DI 1SS270
D0109	23383211	DI 1SS270	D606	2330352	DI 1S2076A
D0111	23383211	DI 1SS270	D651	23383211	DI 1SS270
D0112	23383211	DI 1SS270	D701	23394911	DI AM01Z
D0115	23383211	DI 1SS270	D702	23394911	DI AM01Z
D0116	23383211	DI 1SS270	D703	2348511	DIODE RS3FS
D0117	23383211	DI 1SS270	D704	23389311	DI FMG-G26S
D0118	23383211	DI 1SS270	D705	2338902	DI DFM1SA4
D0119	23383211	DI 1SS270	D707	2336612	DI RU3AM
D0123	23383211	DI 1SS270	\triangle D709	23394811	DI AS01Z
D0124	23383211	DI 1SS270	D710	2338902	DI DFM1SA4
D0125	23383211	DI 1SS270	D711	23383211	DI 1SS270
D0126	23383211	DI 1SS270	D713	23394911	DI AM01Z
D0127	23383211	DI 1SS270	D714	23373411	DI 1SS270A
D0128	23383211	DI 1SS270	D715	23373411	DI 1SS270A
D0129	23383211	DI 1SS270	D716	23383211	DI 1SS270
D0130	23383211	DI 1SS270	D717	23394911	DI AM01Z
D0131	23383211	DI 1SS270	D718	23383211	DI 1SS270
D0132	23383211	DI 1SS270	D719	23394811	DI AS01Z
D0133	23383211	DI 1SS270	D720	23394911	DI AM01Z
D0134	23383211	DI 1SS270	D721	23394911	DI AM01Z
D0136	23383211	DI 1SS270	D770	23383211	DI 1SS270
D0401	2334672	LED SLC-26	D857	23383211	DI 1SS270
D0402	2334671	LED SLC26UR14	D858	23383211	DI 1SS270
D0403	23383211	DI 1SS270	D859	23383211	DI 1SS270
D0404	23383211	DI 1SS270	D860	23383211	DI 1SS270
D301	23383211	DI 1SS270	D861	23383211	DI 1SS270
D302	23383211	DI 1SS270	D862	23383211	DI 1SS270
D310	23383211	DI 1SS270	D863	23383211	DI 1SS270
D311	23383211	DI 1SS270	D864	23383211	DI 1SS270
D303	23383211	DI 1SS270	D865	23383211	DI 1SS270
D304	23383211	DI 1SS270	D866	2331913	DI 1SS83
D305	23383211	DI 1SS270	D867	2331913	DI 1SS83
D306	23383211	DI 1SS270	D868	2331913	DI 1SS83
D312	23383211	DI 1SS270	D869	2331913	DI 1SS83
D313	23383211	DI 1SS270	D870	2331913	DI 1SS83
D314	23383211	DI 1SS270	D871	2331913	DI 1SS83
D315	23383211	DI 1SS270	D872	23383211	DI 1SS270
D316	23383211	DI 1SS270	D875	23383211	DI 1SS270
D401	23383211	DI 1SS270	D876	23383211	DI 1SS270
D402	23383211	DI 1SS270	D877	23383211	DI 1SS270
D404	23383211	DI 1SS270	D878	23383211	DI 1SS270
D405	23383211	DI 1SS270	D879	23383211	DI 1SS270
D4101	23383211	DI 1SS270	D880	23383211	DI 1SS270
D4501	23383211	DI 1SS270	D881	23383211	DI 1SS270
D4502	23383211	DI 1SS270	\triangle D901	2335982	DIRM11A
D4601	23383211	DI 1SS270	\triangle D903	2335982	DIRM11A
D4602	23383211	DI 1SS270	D905	2336612	DIRU3AM
D501	23383211	DI 1SS270	\triangle D906	2336612	DIRU3AM
D502	23383211	DI 1SS270	D907	23394911	DI AM01Z

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SYSMBOL NO.	PART NO.	DESCRIPTION	SYSMBOL NO.	PART NO.	DESCRIPTION
D908	23383211	DI 1SS270	ZD4512	2331155	ZD HZ12 (C1/C2/C3)
D950	23394911	DI AM01Z	ZD4601	2331833	ZD HZ11(A)3
D951	23394911	DI AM01Z	ZD501	2339091	ZD HZ9C1L TA
D952	23394911	DI AM01Z	ZD502	2339091	ZD HZ9C1L TA
D953	23394911	DI AM01Z	ZD503	2339091	ZD HZ9C1L TA
D954	23394911	DI AM01Z	ZD601	2339191	ZD HZ20-1L TA
D955	23394911	DI AM01Z	ZD603	2339242	ZD HZS33-2L
D957	23394911	DI AM01Z	ZD604	2339242	ZD HZS33-2L
D958	23394911	DI AM01Z	ZD652	2339142	DIODE ZENER HZ512L(B2)
D971	23383211	DI 1SS270	ZD653	2339868	ZD HZ9C2TA
D980	23394911	DI AM01Z	ZD701	2339091	ZD HZ9C1L TA
D981	23394911	DI AM01Z	ZD702	23390511	ZD HZS7B1L
D982	23394911	DI AM01Z	ZD706	2339152	ZD HZS12C2L TA
D983	23394911	DI AM01Z	\triangle ZD707	2339242	ZD HZS33-2L
ZD0101	2334122	ZD RD5.1EB1	\triangle ZD708	2339212	ZD HZ24-2L TA
ZD0102	2331834	ZD HZ-11B1	ZD709	2331826	ZD HZ9B3
ZD0103	2339839	ZD HZ5C3	ZD712	23390511	ZD HZS7B1L
ZD0104	2335991	ZD HZT-33	ZD713	2339251	ZD HZS36-1L
ZD0105	2331155	ZD HZ12 (C1/C2/C3)	ZD714	2339839	ZD HZ5C3
ZD0106	2339885	ZD HZ512B2	ZD715	2339052	ZD HZ5B2L
ZD0501	2339021	ZD HZ681L	ZD716	2339091	ZD HZ9C1L TA
ZD0502	2331155	ZD HZ12 (C1/C2/C3)	ZD717	2331805	ZD HZ6 (B2)
ZD0503	2331155	ZD HZ12 (C1/C2/C3)	ZD751	2339251	ZD HZS36-1L
ZD0504	2331155	ZD HZ12 (C1/C2/C3)	ZD851	2331781	ZD HZ4 (A1)
ZD0505	2331155	ZD HZ12 (C1/C2/C3)	ZD854	2331773	ZD HZ-3A3
ZD0506	2331155	ZD HZ12 (C1/C2/C3)	ZD855	2339885	ZD HZ512B2
ZD0507	2331155	ZD HZ12 (C1/C2/C3)	ZD856	2339885	ZD HZ512B2
ZD0508	2331155	ZD HZ12 (C1/C2/C3)	ZD857	2339885	ZD HZ512B2
ZD0509	2331155	ZD HZ12 (C1/C2/C3)	ZD901	2339152	ZD HZS12C2L TA
ZD0510	2331155	ZD HZ12 (C1/C2/C3)	\triangle ZD902	2339242	ZD HZS33-2L
ZD0511	2331155	ZD HZ12 (C1/C2/C3)	\triangle ZD903	2339847	DIODE-ZENER HZ56C1
ZD0513	2331155	ZD HZ12 (C1/C2/C3)	ZD904	2339251	ZD HZS36-1L
ZD0514	2331155	ZD HZ12 (C1/C2/C3)	ZD951	2339021	ZD HZ681L
ZD0515	2331155	ZD HZ12 (C1/C2/C3)	ZD952	2339093	ZD HZ9C3L
ZD0516	2331155	ZD HZ12 (C1/C2/C3)	TRANSFORMERS		
ZD0517	2331155	ZD HZ12 (C1/C2/C3)	\triangle T701	2274352	H.DRIVE TRANSFORMER
ZD0518	2331155	ZD HZ12 (C1/C2/C3)	\triangle T702	2435076	FLYBACK TRANSFORMER C87LUI
ZD0519	2331155	ZD HZ12 (C1/C2/C3)	\triangle T901	2215402	POWER TRANSFORMER
ZD0520	2331155	ZD HZ12 (C1/C2/C3)	T902	2260021	HORIZONTAL DRIVE COIL
ZD101	2331834	ZD HZ-11B1	\triangle T950	2215381	POWER TRANSFORMER
ZD151	2331807	ZD HZ-6 (C1)	\triangle T980	2214466	POWER TRANSFORMER
ZD301	2339868M	ZD HZ9C2TA	FUSES		
ZD305	23391411	ZD HZ512B1L	\triangle F901	2721053	FUSE 5A
ZD306	2331155	ZD HZ12 (C1/C2/C3)	\triangle F902	2721704	FUSE 2A
ZD4501	2334283	ZD RD24EB2	\triangle F980	2720814	FUSE 2A
ZD4502	2331155	ZD HZ12 (C1/C2/C3)	COMPOUND COMPONENTS		
ZD4503	2331155	ZD HZ12 (C1/C2/C3)	\triangle CP901	2790292	CAPRISTOR
ZD4504	2331155	ZD HZ12 (C1/C2/C3)	\triangle CP903	2790292	CAPRISTOR
ZD4505	2331155	ZD HZ12 (C1/C2/C3)	MF0101	2163972	CERAMIC FILTER 6MHZ
ZD4506	2331155	ZD HZ12 (C1/C2/C3)	MF301	2163971	CERAMIC FILTER
ZD4507	2331155	ZD HZ12 (C1/C2/C3)	MF701	2786683	CERAMIC OSCILLATOR
ZD4508	2331155	ZD HZ12 (C1/C2/C3)	ZD4511	2331155	ZD HZ12 (C1/C2/C3)

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SYSMBOL NO.	PART NO.	DESCRIPTION	SYSMBOL NO.	PART NO.	DESCRIPTION			
COILS								
L0102	2122956	LA AXIAL COIL 100 MICRO H +-10%	L858	2122244	LA AXIAL COIL 22 MH			
L0103	2122253	LA AXIAL COIL 100 MICRO H	L859	2122244	LA AXIAL COIL 22 MH			
L0106	2791754	DSS306-55B101M	L860	2122253	LA AXIAL COIL 100 MH			
L0107	2791754	DSS306-55B101M	L861	2122653	FERRITE BEADS CORE			
L0108	2791754	DSS306-55B101M	L901	2272293	LINE FILTER LL (T)			
L0109	2791754	DSS306-55B101M	L902	2121674	LINE FILTER COIL			
L0110	2791754	DSS306-55B101M	L903	2124362	DC NOISE FILTER2			
L0111	2791754	DSS306-55B101M	L904	2125481	HIGH FREQUENCY COIL			
L0112	2122956	LA AXIAL COIL 100 MICRO H +-10%	L905	2229021	DEGAUSSING COIL (HHEA MD)			
L0116	2123461	FERRITE BEADS CORE	L907	2123461	FERRITE BEADS CORE			
L0117	2123461	FERRITE BEADS CORE	L908	2122653	FERRITE BEADS CORE			
L0118	2122942	LA AXIAL COIL 8.2 MH +-10%	L909	2122653	FERRITE BEADS CORE			
L0119	2122942	LA AXIAL COIL 8.2 MH +-10%	L910	2122653	FERRITE BEADS CORE			
L0120	2122942	LA AXIAL COIL 8.2 MH +-10%	SWITCHES					
L0401	2122956	LA AXIAL COIL 100 MH +-10%	S0101	2632923	TACT SWITCH			
L0501	2120482	FILTER COIL 100 MH +-10%	S0102	2633171	5 KEY TACTSWITCH 5P			
L0502	2120482	FILTER COIL 100 MH +-10%	S0103	2633171	5 KEY TACTSWITCH 5P			
L0503	2122956	LA AXIAL COIL 100 MH +-10%	S0104	2633175	PUSH SWITCH			
L0504	2122956	LA AXIAL COIL 100 MH +-10%	COLOR PICTURE TUBE					
L0505	2122956	LA AXIAL COIL 100 MH +-10%	V1	2470582	CPT A79AEJ10X01 (HHEA MD)			
L3001	2122956	LA AXIAL COIL 100 MH +-10%	MISCELLANEOUS					
L3002	2122956	LA AXIAL COIL 100 MH +-10%		3122663	CABINET ASS'Y (HHEA MD)			
L3003	2122939	LA AXIAL COIL 5.6 MH		3470623	BACK COVER ASS'Y (HHEA MD)			
L3005	2141148	1H DL COIL		3142272	SPEAKER GRILLE ASS'Y R (HHEA MD)			
L3006	2165811	B.P.FILTER SBP4370		3142262	SPEAKER GRILLE ASS'Y L (HHEA MD)			
L3007	2122956	LA AXIAL COIL 100 MH +-10%		3830372	ANTENNA TERMINAL BOARD			
L301	2122956	LA AXIAL COIL 100 MH +-10%		3727972	HOLDER-ACLINE CORD			
L302	2122956	LA AXIAL COIL 100 MH +-10%		3175461	INSULATOR (HHEA MD)			
L304	2166121	TRAP COIL 3.58MHZ		0020615	RUBBER FOOT 4 REQ'D			
L305	2122956	LA AXIAL COIL 100 MH +-10%		3739671	CORD HOLDER			
L306	2122932	LAL AXIAL COIL		3209161	R/C PANEL (HHEA MD)			
L306A	2122956	LA AXIAL COIL 100 MH +-10%		3820675	DOOR (H HEA MD)			
L307	2122653	FERRITE BEADS CORE		3785043	PUSH LOCK A			
L311	2122969	LA AXIAL COIL 1 MH		3823752	ANTENNA LABEL			
L401	2122653	FERRITE BEADS CORE	A	2902263	4P SUB MINIPLUG PIN			
L4101	2122956	LA AXIAL COIL 100 MH +-10%	EANT	2427364	ANTENNA SWITCH ASS'Y ASB-311-			
L4602	2122653	FERRITE BEADS CORE	EF901	2720221	FUSE HOLDER			
L4603	2122653	FERRITE BEADS CORE	J	2661751	PLUG PIN WITH BASE			
L4604	2122653	FERRITE BEADS CORE	M	2665272	4P PLUG PIN WITH BASE			
L504	2122953	LA AXIAL COIL 56 MH	P	2902266	7P SUB MINIPLUG PIN			
L702	2165403	H.LINEARITY COIL	PX	2661752	PLUG PIN			
L704	2124181	CHOKECOIL	S	2663134	PLUG PIN WITH BASE (5P)			
L705	2220591	CHOKING COIL	SL	2902263	4P SUB MINIPLUG PIN			
L706	2122092	FILTER COIL	T	2902263	4P SUB MINIPLUG PIN			
L709	2122213	FILTER COIL 30 MH	V	2661752	PLUG PIN			
L770	2123116	LAL AXIAL COIL 100 MH +-10%	W	2661753	PIN PLUG WITH BASE			
L851	2122945	LA AXIAL COIL 15 MH +-10%	Z	2663821	2P PLUG PIN			
L852	2122945	LA AXIAL COIL 15 MH +-10%	E001	2983103	9P PIN JACK WITH SWITCH			
L853	2122945	LA AXIAL COIL 15 MH +-10%	E002	2673002	2P PIN JACK			
L854	2122956	LA AXIAL COIL 100 MH +-10%	E003	2983121	SOCKET WITH SWITCH			
L855	2122956	LA AXIAL COIL 100 MH +-10%	E03	2902266	7P SUB MINIPLUG PIN			
L856	2122956	LA AXIAL COIL 100 MH +-10%	E1	2972521	POWER CORD			

PRODUCT SAFETY NOTE: Components marked with a  have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYSMBOL NO.	PART NO.	DESCRIPTION	SYSMBOL NO.	PART NO.	DESCRIPTION
 E201	2982471	300-75 VHF ADAPTER			
 E301	2573413	REMOTE CONTROL TRANSMITTER CLU-960GR			
E401	2983011	4P PUSH TERMINAL			
 E602	2994511	CPT EARTH READ			
E603	2772211	MAGNET PIECE			
E801	2953102	CPT SOCKET			
E952	3772201	AC CORD HOLDER			
 E980	2720221	FUSE HOLDER			
JK	2955671	7J SUB MINI CONNECTOR			
 RRL901	2641221	POWER RELAY			
TH651	2340371	THERMISTOR 112301-9			
TH751	2340552	THERMISTOR			
 TH901	2340812	POSISTOR			
DL3001	2791101	DELAY LINE			
DL3002	2794201	DELAY LINE			
SG851	2340037	SPARK GAP			
 SP451	2412646	SPEAKER (HHEA MD)			
 SP452	2412646	SPEAKER (HHEA MD)			
 SP453	2410794	SPEAKER (HHEA MD)			
 SP454	2410794	SPEAKER (HHEA MD)			
	2784342	CONDENSER COVER (C748,C911,CP901,CP903)			
	2771891	FERRITE BEADS CORE 003 (C0103,C0104)			
	2771892	FERRITE BEADS CORE 004 (C969,D719, D905,D906,Q702,Q851~856,Q901)			
	4520883	M3X12 SCREW WITH WASHER (IC401)			
	4520881	M3X8 SCREW WITH WASHER (IC702,Q706,Q752)			
	8821234	3 NUT (Q702)			
	8813124	WASHER (Q702,Q901)			
	2771893	FERRITE BEADS CORE (Q702)			
	4159411	3X8 KNURL TAPPING SCREW (Q702,Q901)			
	8821114	NUT 3 (Q901,T702,T901)			
	8811114	3 SPRING WASHER (Q901)			
	8711412	3X12 PAN HEAD SCREW (T702)			
	4514065	3X16 ZANE (T901)			
	3731081	PURSE LOCK 10			
	3737101	PURSE LOCK 15			
	2788841	ANODE CLAMP			
	3763751	SK BINDER			
	3794331	RESET DRIVER			
	3330941	EARTH SPRING			
	3763752	SK BINDER			
U0101	2381122	REMOTE CONTROL RECEIVER SPS-409-1Y			
U0501	2575392	P IN P UNIT			
 U101	2429341	FRONTEND V8-A58FT			
X501	2791501	CRYSTAL HC-49/U			



HITACHI HOME ELECTRONICS (AMERICA), INC.

NATIONAL HEADQUARTERS OFFICE: 401 West Artesia Blvd, Compton, Calif. 90220 Tel. 213-537-8383
 Western Regional Office: 401 West Artesia Blvd, Compton, Calif. 90220 Tel. 213-537-8383
 Eastern Regional Office: 1290 Wall St. West, Lyndhurst, N.J. 07071 Tel. 201-935-8980
 Mid-Western Regional Office: 1400 Morse Ave., Elk Grove Village, Illinois 60007 Tel. 708-593-1550
 Southern Regional Office: 510 Plaza Dr., College Park, Georgia 30349 Tel. 404-763-0360

HITACHI SALES CORPORATION OF HAWAII, INC.

3219 Koapaka Street Honolulu, Hawaii 96819 Tel. 836-3621

HITACHI SALES CORPORATION DE PANAMA, S.A.

Apartado 7657, Panamá 5, Panamá City, Rep. of Panamá. Tel. 61-3100