

CARVER

AUDIO/VIDEO RECEIVER HR-772 SERVICE MANUAL

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SPECIFICATIONS

POWER AMPLIFIER SECTION

Output Power into 8Ω	140W per channel
into 4Ω	150W per channel
Frequency Response	20Hz ~ 20kHz (± 1dB)
Gain	30dB
Sensitivity for rated output into 8Ω	1.0Vrms
Input Impedance	47kΩ
THD	0.05%
IM Distortion	0.05%
TIM	unmeasurable
S/N Ratio A weighted	79dB below 1watt

PREAMPLIFIER SECTION

Frequency Response	Phono	RIAA ± 1.5dB
Input Impedance at 1kHz	Line Level	20Hz ~ 20kHz (± 1dB)
Sensitivity for 0.5Vrms output	Phono	47kΩ
Maximum Input Level 1kHz	Line Level	100kΩ
S/N Ratio A weighted	Phono	2.5mV
Maximum Output Level	Line Level	75mV
THD	Phono	130mV
Output Impedance	Line Level	> 6V
Gain Line Level in to Tape Out	Phono	80dB below 5mV input level
Channel Balance at Maximum Volume	Line Level	90dB below 0.5V output level
Tone Controls	Hologram On	74dB below 0.5V output level
	Preamp Out	8Vrms
	Tape Out	7Vrms
	Preamp Out	0.05% 20Hz ~ 20kHz at 2Vrms out
	Tape Out	700Ω
		1kΩ
		0dB
	Bass	1.5dB
	Mid-Bass	± 10dB at 63Hz (± 2dB)
	Mid-Frequency	± 10dB at 250Hz (± 2dB)
	High-Frequency	± 10dB at 1kHz (± 2dB)
		± 8.5dB at 4kHz (± 2dB)
		± 10dB at 16kHz (± 2dB)
	Loudness	+ 8dB at 100Hz (± 2dB)
		+ 4dB at 10kHz (± 2dB)
Channel Separation	1kHz	60dB
	10kHz	45dB
Sonic Hologram Image Resolution		5 deg. horiz.
		20 deg. vert.

TUNER SECTION

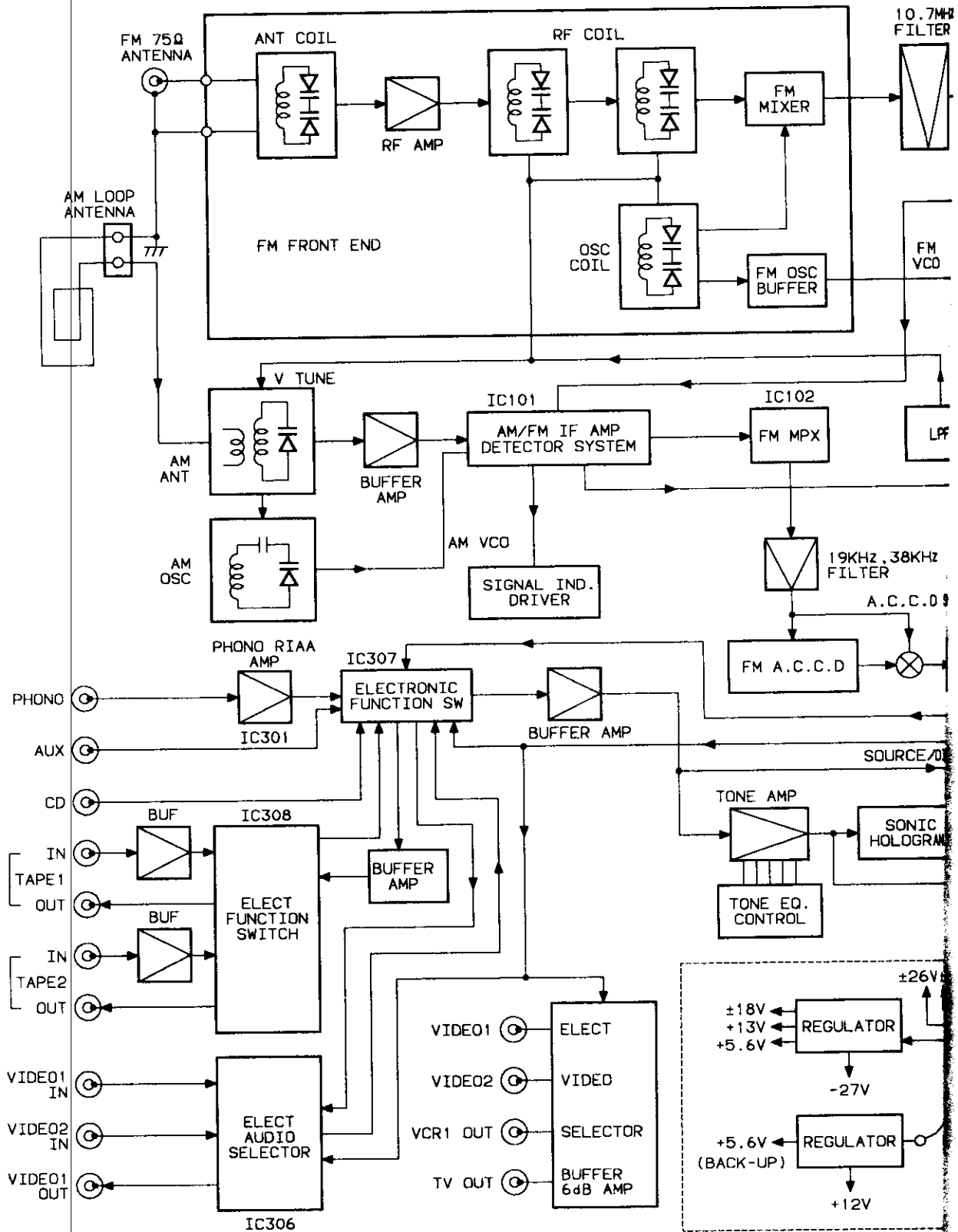
FM		
IHF Usable Sensitivity	Mono	11.3dBf
	Stereo	17.3dBf
Sensitivity for 50dB Quieting	Mono	14.8dBf
	Stereo	39.2dBf
Spurious Response		> 75dB
Image Rejection		> 70dB
IF Rejection		> 80dB
AM Suppression		65dB
Capture Ratio		1.5dB
Alternate Channel Selectivity		65dB
Frequency Response at 65dBf input		20Hz ~ 15kHz (± 1dB)
THD at 65dBf input 1kHz 100% mod.		0.15%
S/N Ratio at 65dBf input		68dB
Stereo Separation (65dBf 1kHz)		45dB
AM		
Sensitivity for 20dB Quieting		56dB/m (600μV/m)
Selectivity at 20dB S/N ± 10kHz		45dB
Spurious Response		45dB
Image Rejection		50dB
IF Rejection		60dB
THD at 5mV/m (74dB/m) 30% mod.		0.5%

GENERAL

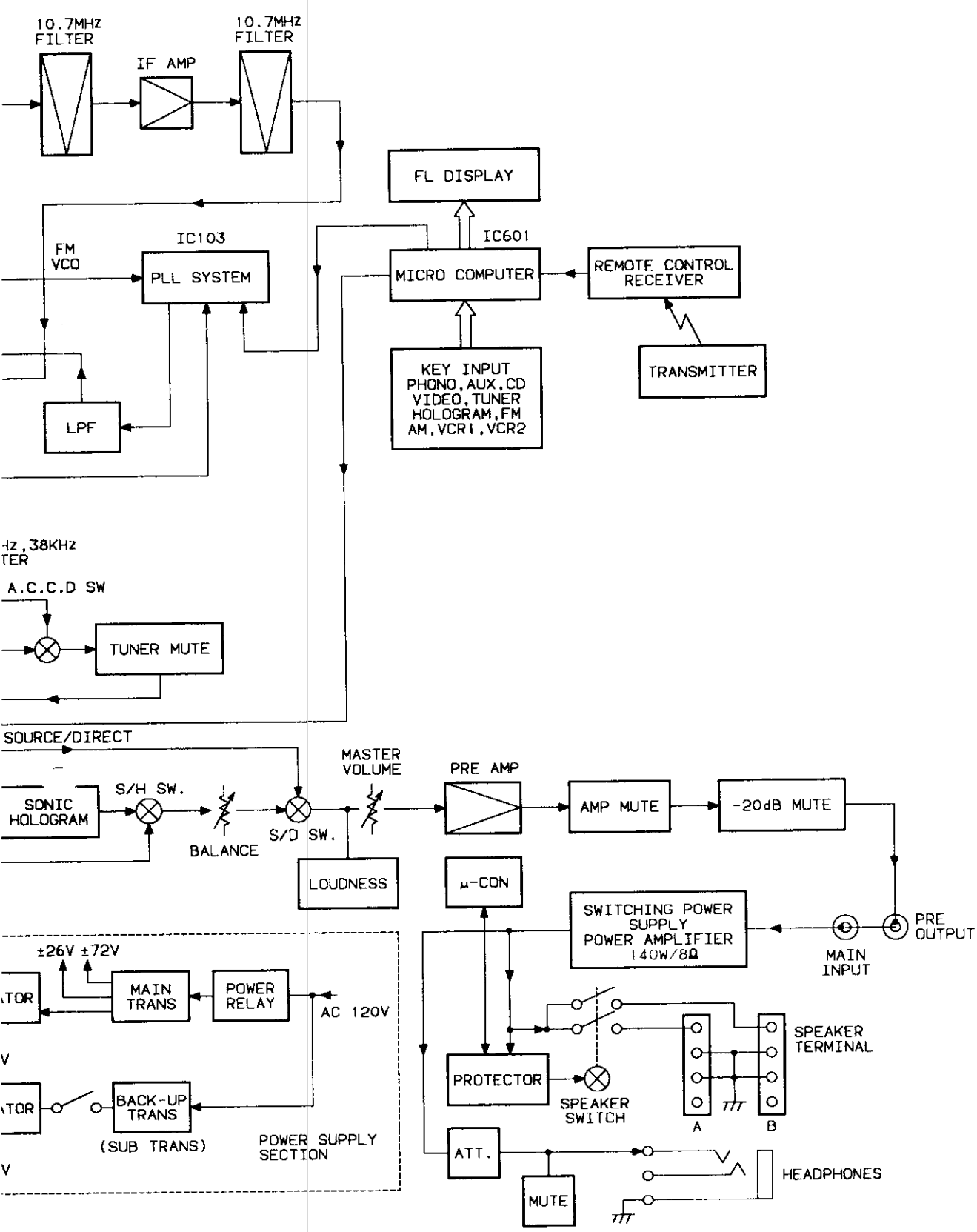
Power Consumption		660W
Dimensions	Height	5.75" (146mm) with feet
	Width	19" (484mm)
	Depth	14.7" (374mm) Chassis
		16.7" (425mm) Overall
Weight		26.5 lbs. (12.1kg)

Specifications and design are subject to change without notice.

BLOCK DIA



BLOCK DIAGRAM



FM TUNER ALIGNMENT

FM ALIGNMENT – Band Selector switch to FM position.

CONDITION

- | | |
|--|--|
| <p>1. Tuning method: TUNED indicator, ON
Reception frequency, 98.0 MHz</p> <p>2. Generator: Mono....Mod. 1 kHz, 75 kHz dev.
Stereo....Mode. 1 kHz, 67.5 kHz +6.75 kHz dev.</p> | <p>3. TAPE OUT load: A 100 kΩ resistor shunted by a 1000 pF capacitor</p> <p>4. Input level: 71.2 dBf (1000 μV) unless otherwise noted</p> <p>5. MANUAL TUNING switch: ON position</p> <p>6. Preheat: More than 1 minute</p> |
|--|--|

ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
1. CENTER VOLTAGE/DISTORTION ADJUSTMENT (MINIMUM T.H.D.)	Connect the output of signal generator to 75 ohm antenna terminal through a matching dummy and set the frequency to 98.0 MHz. Set the output level to 71.2 dBf.	Set MANUAL TUNING switch to ON position and Preset STATION button to "4" position. Set the tuner frequency to 98.0 MHz.	Connect DC digital volt meter to the test point TP101 and TP102.	Adjust FM DET 1 Coil (T104) until the DC digital Voltmeter reads 0V ± 20mV.
			Connect the ACVM and the distortion meter to TAPEOUT jacks.	Adjust FM DET 2 Coil (T105) until the distortion meter is minimum. Adjust IFT (Front-end) until the ACVM is maximum or the distortion meter is minimum.
Note: Repeat Step 1 (FM DET 1 Coil T104) and 2 (FM DET 2 Coil T105) until optimum alignment is reached.				
2. FM STEREO SEPARATION CONTROL	Connect the output of signal generator to 75 ohm antenna terminal through a matching dummy and set the frequency to 98.0 MHz in separate (1kHz Main-90%, pilot-9%) from LEFT channel.	Same as above Set Mode switch to AUTO position.	Connect the ACVM to TAPEOUT jacks. (Right channel)	Adjust VR103 until both channels have maximum but equal separation.
	Same as above for RIGHT channel.		Connect the ACVM to TAPEOUT jacks. (Left channel)	
3. FM MUTING AUTO STOP SENSITIVITY ADJUSTMENT	Connect the output of signal generator to 75 ohm antenna terminal through a matching dummy and set the frequency to 98.0 MHz. Set the output level to 25.2 dBf.	Same as above.	Front panel TUNED Indicator Display.	Adjust VR102 until the TUNED Indicators partly light up.
Note: Decrease the output level to 25.2dBf and confirm that the wave form disappears. Increase the output level to 35.2dBf and confirm that the wave form reappears.				
4. FM A.C.C.D SWITCHING LEVEL ADJUSTMENT A.C.C.D	Same as above. Change the input level to 55.2 dBf.	Same as above.	Connect the DC digital volt meter to the test point TP105.	Adjust VR105 the moment the voltage at TP105 change from + 8 V to - 8V. Rotate VR105 slowly. Perform this adjustment after MUTING LEVEL adjustment.
5. SEPARATION CONTROL	Connect the output of signal generator to 75 ohm antenna terminal through a matching dummy and set the frequency to 98.0 MHz in separate (6.3kHz Main-75%, pilot-9%) from LEFT channel.	Same as above Set A.C.C.D switch to ON position.	Connect the ACVM to TAPEOUT jacks. (Right channel)	Adjust VR104 until both channels have 7 dB separation.
	Same as above for RIGHT channel.		Connect the ACVM to TAPEOUT jacks. (Left channel)	

Use a screwdriver with plastic grip for all adjustments.

AM TUNER ALIGNMENT

AM ALIGNMENT – Band Selector switch to AM position.
Maintain generator output as low as possible for suitable indication.

CONDITION

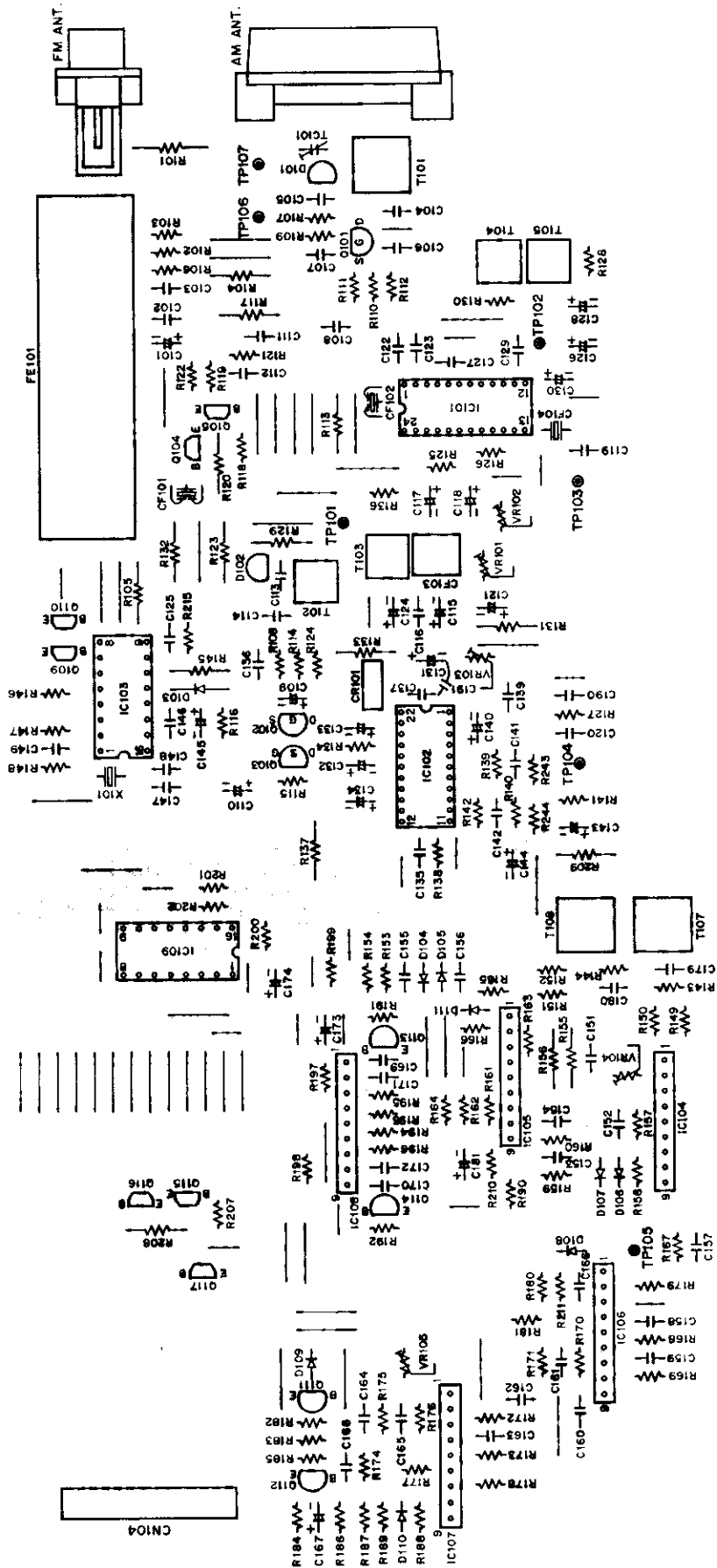
- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Tuning method: TUNED indicator, ON 2. Modulation: 400 Hz, 30 % 3. TAPE OUT load: A 100 kΩ resistor shunted by a 1000 pF capacitor | <ol style="list-style-type: none"> 4. Input level: 74 dB/m (5 mV/m) unless otherwise noted 5. Generator output: IRE loop antenna 24" (60cm) spacing 6. MANUAL TUNING switch: ON position 7. Preheat: More than 1 minute |
|--|---|

Note: Perform this alignment after FM Tuner Alignment.

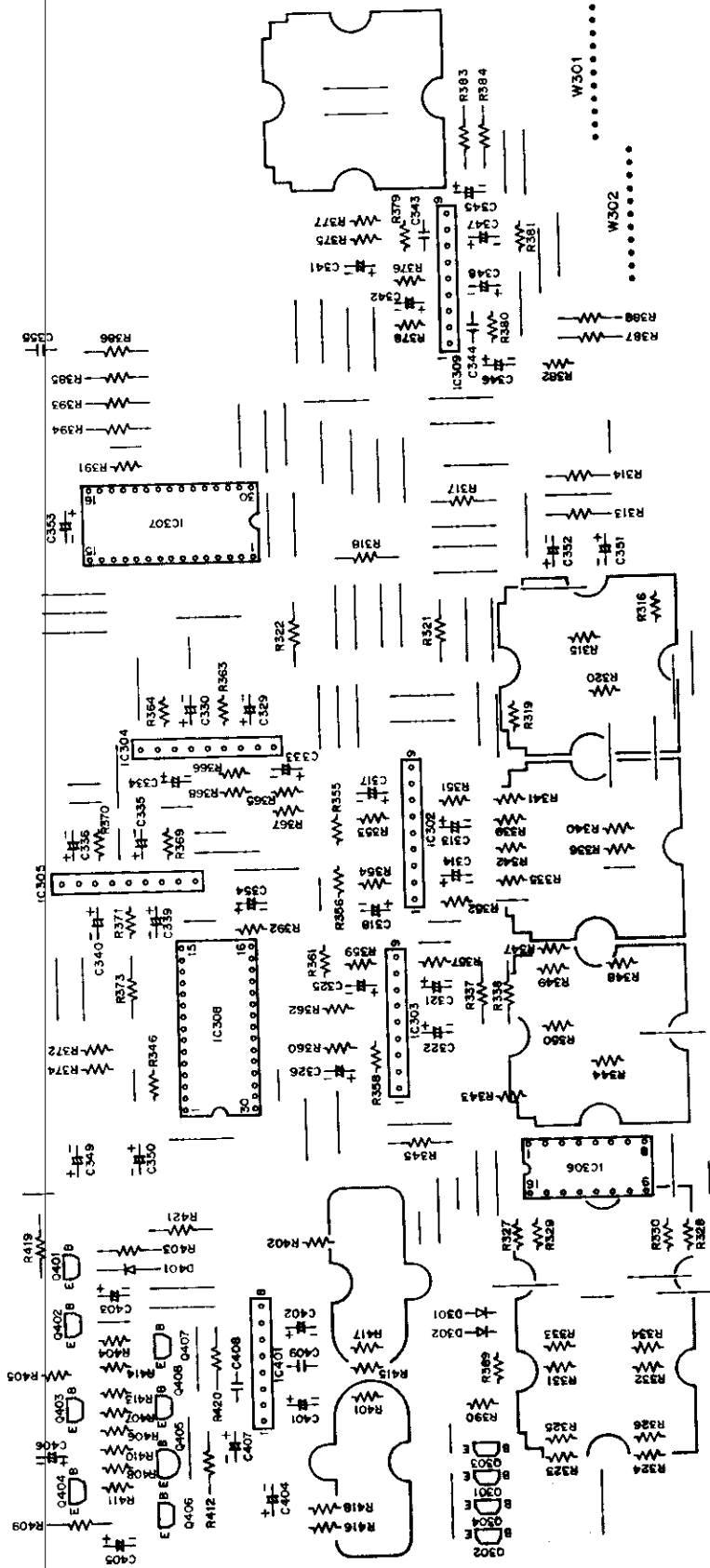
ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
1. AM IF ALIGNMENT	Connect the output of IF sweep generator to AM antenna terminal through IHF dummy and set the frequency to 450kHz ± 0.5kHz.	Set the tuner frequency to near the 1000kHz and point of non-interference.	Connect the input of IF sweep generator to the test point TP103 through a 1μF cap.	Adjust AM IFT (T103) until the output waveform is flat and maximum. Keep signal low enough for noise on response.
2. AM RF TRACKING ALIGNMENT (600kHz)	Connect Standard Loop Antenna to output terminal of AM RF Signal Generator. Place Loop Antenna 60cm away from Loop Antenna (Unit). Generator Setting to 600kHz. Modulation with 400Hz (30% modulation).	Set the Preset STATION button to "3" position. Set to the tuner frequency to 600 kHz.	Connect the ACVM to TAPEOUT jacks.	Adjust AM Antenna Coil (T101) until the ACVM is maximum.
3. (1400kHz)	Change the tuner frequency from 600 kHz to 1400 kHz.	Change Preset STATION button to "4" position. Set the tuner frequency to 1400kHz.	Same as above.	Adjust AM Antenna Trimmer (TC101) until the ACVM is maximum.
Note: Repeat the adjustments in Items 2 and 3. Then, confirm there is no tracking error.				
4. AM AUTO STOP SENSITIVITY ADJUSTMENT	Connect the output of signal generator to IRE loop antenna and set the frequency to 1000 kHz. Set the input level to 54 dB/m.	Set Preset STATION button to "5" position. Set the tuner frequency to 1000 kHz.	Front Panel TUNED Indicator Display.	Adjust VR101 until the TUNED Indicator partly lights up.

Use a screwdriver with plastic grip for all adjustments.

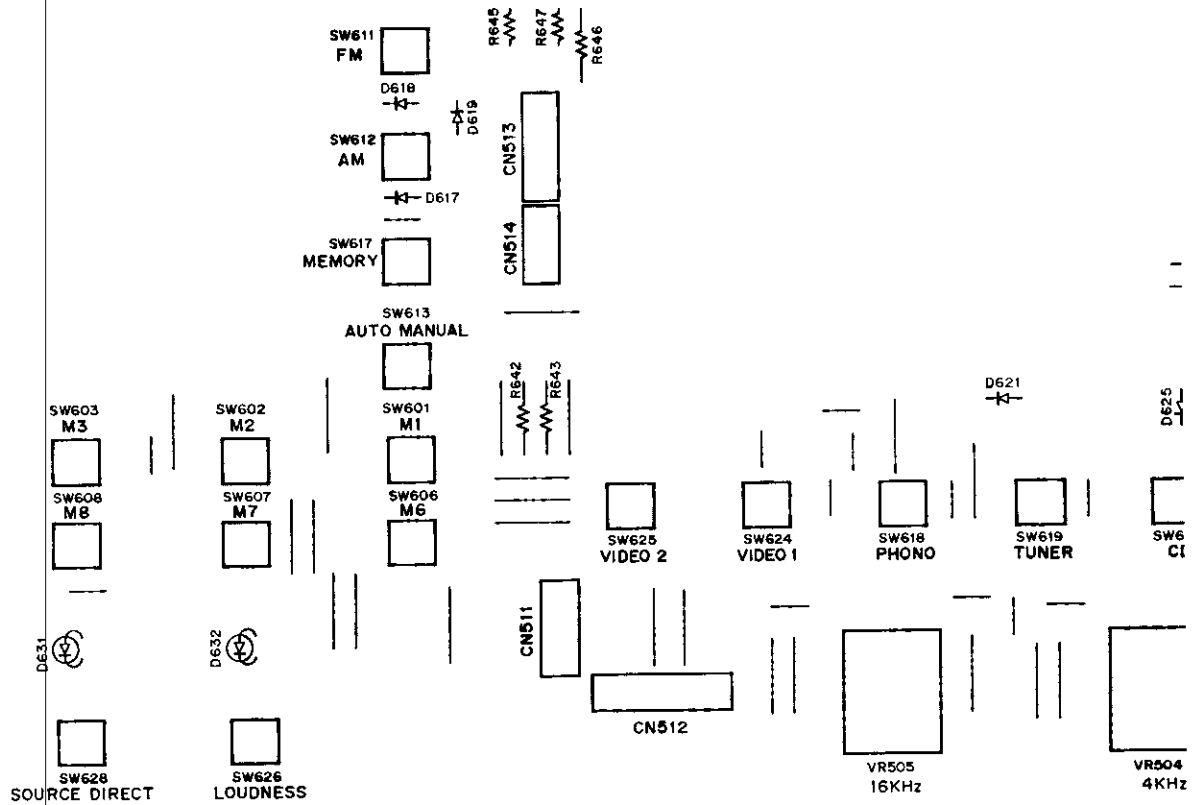
TUNER PRINTED CIRCUIT BOARD (BOTTOM VIEW)



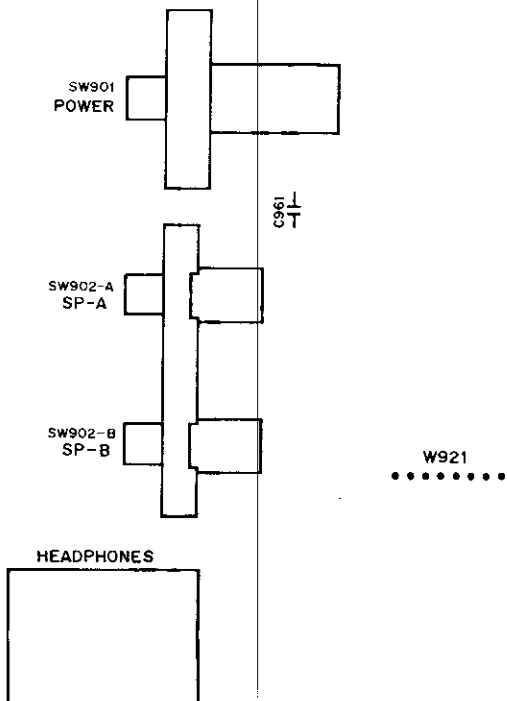
INPUT PRINTED CIRCUIT BOARD (BOTTOM VIEW)



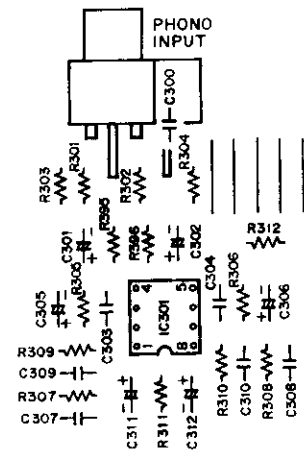
DISPLAY/SWITCH PR (BOTTOM VIEW)



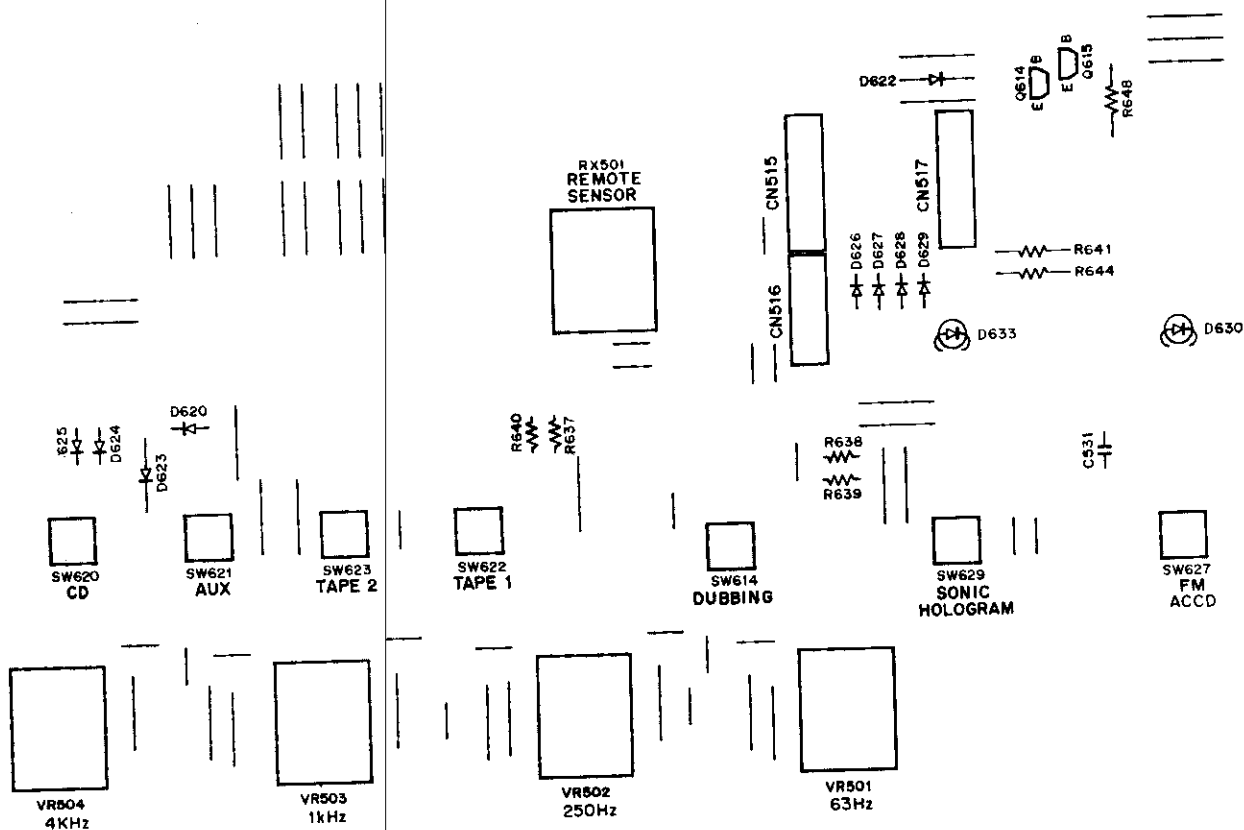
POWER/SP SW P.C. BOARD (BOTTOM VIEW)



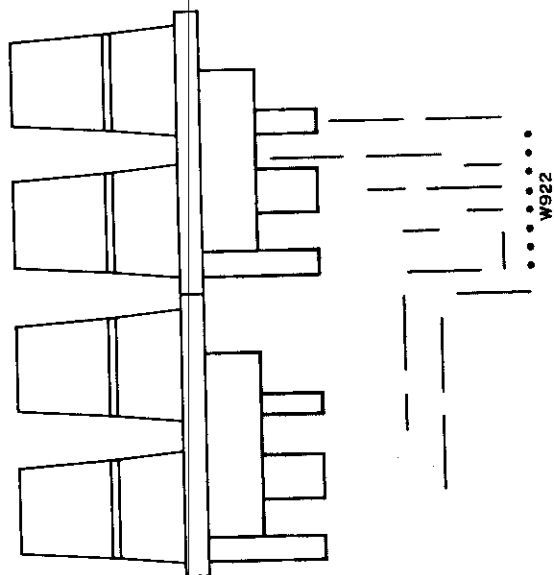
PHONO EQ P.C. BOARD (BOTTOM VIEW)



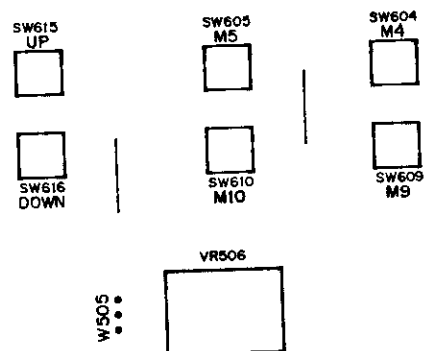
**CH PRINTED CIRCUIT BOARD
(BOTTOM VIEW)**



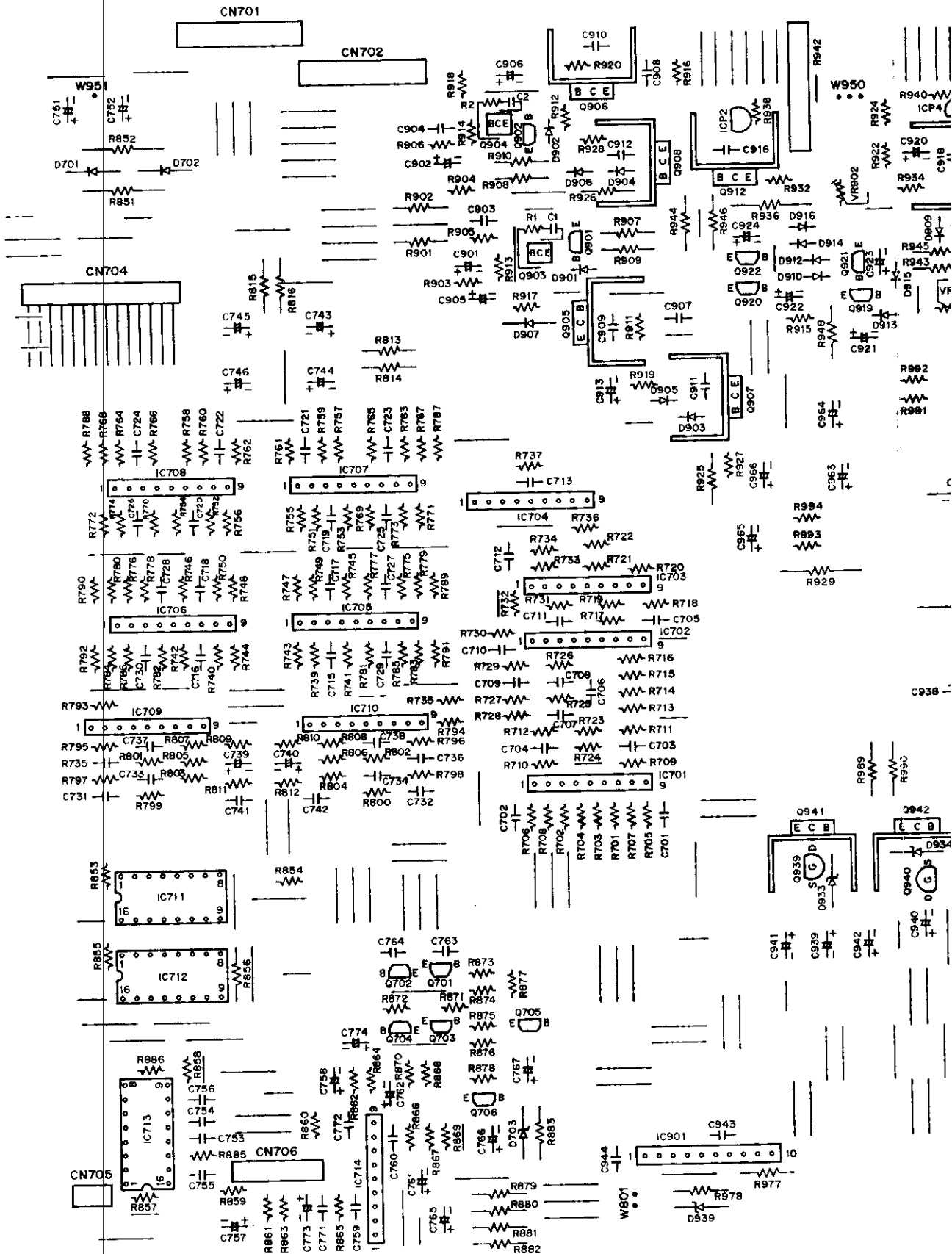
**SP TERMINAL P.C.BOARD
(BOTTOM VIEW)**



**BALANCE/SWITCH P.C.BOARD
(BOTTOM VIEW)**



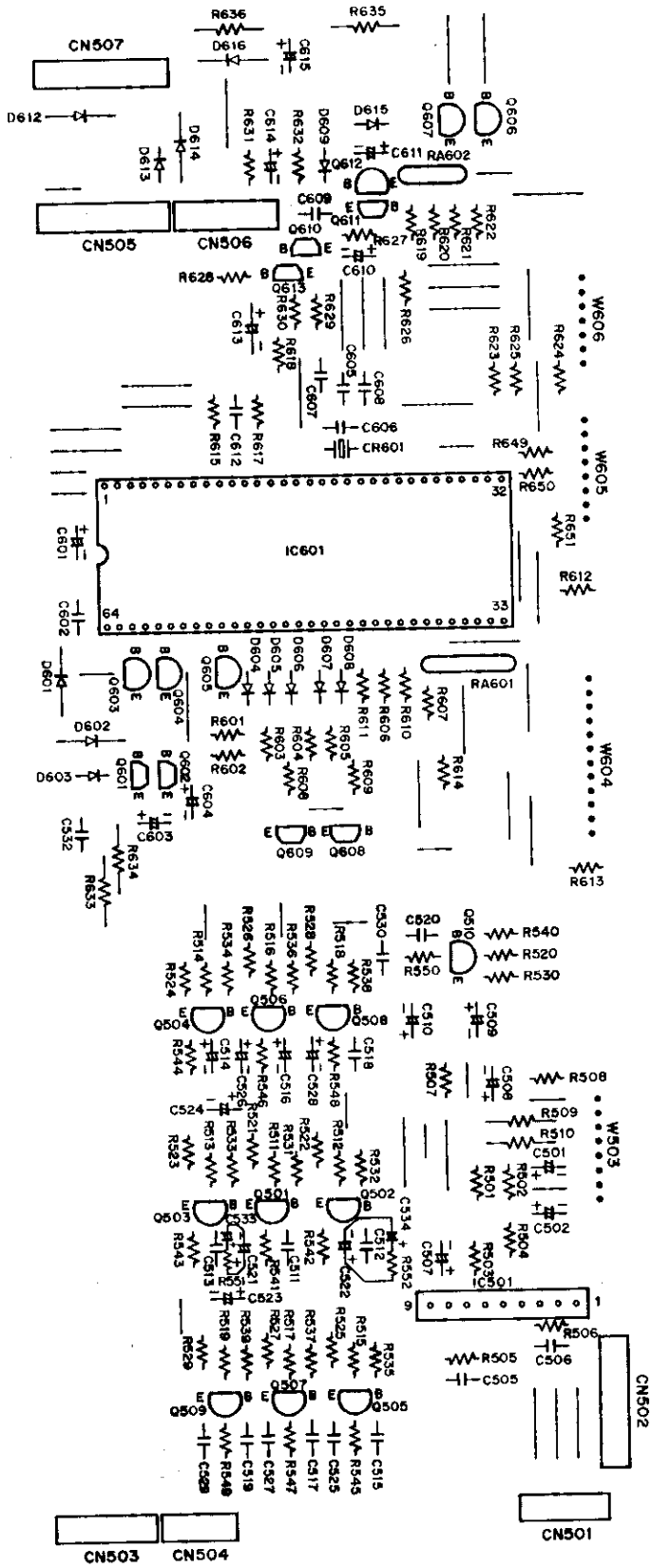
MAIN PRINTED CIRCUIT (BOTTOM VIEW)



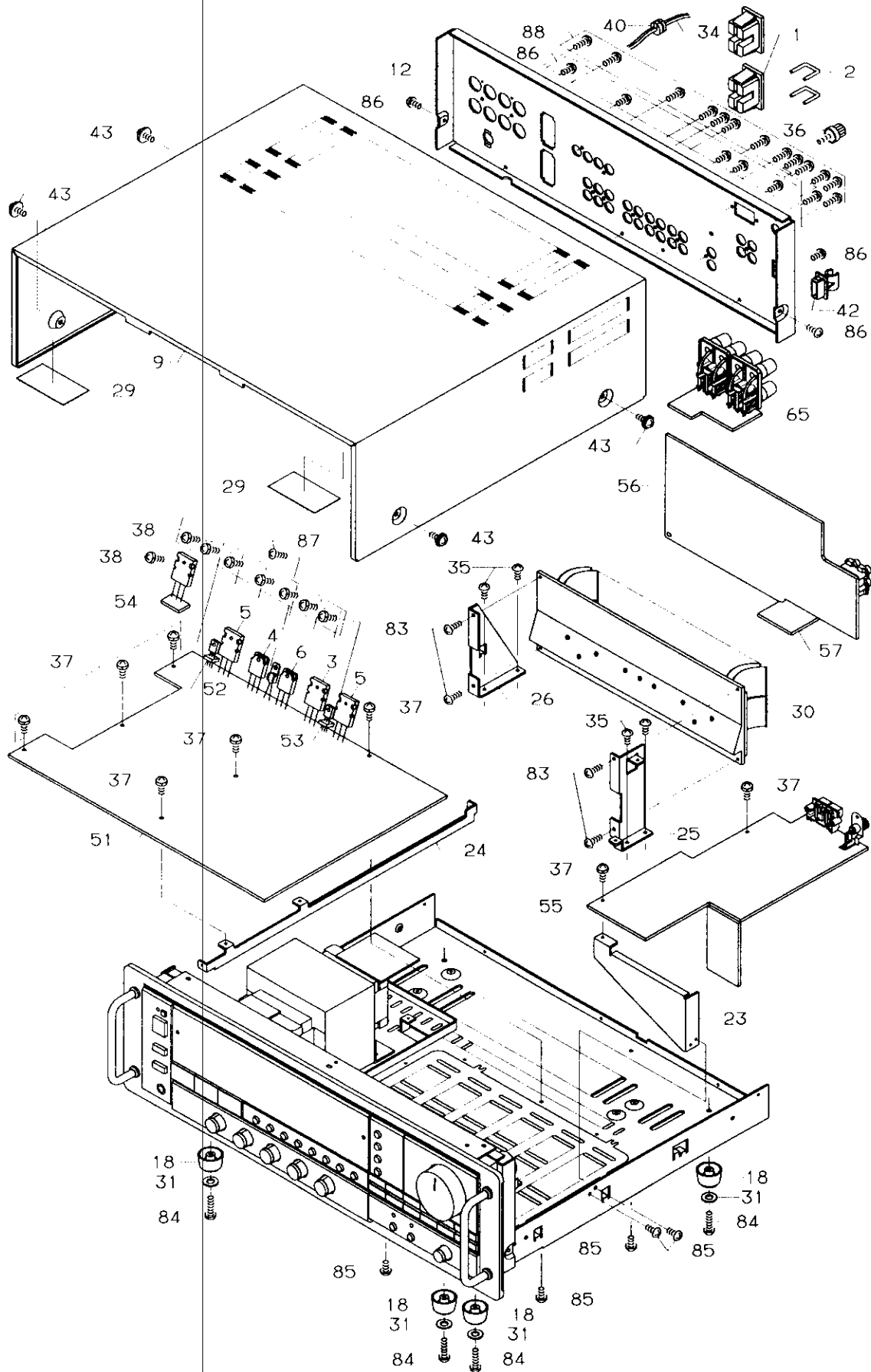
CUIT BOARD (EW)



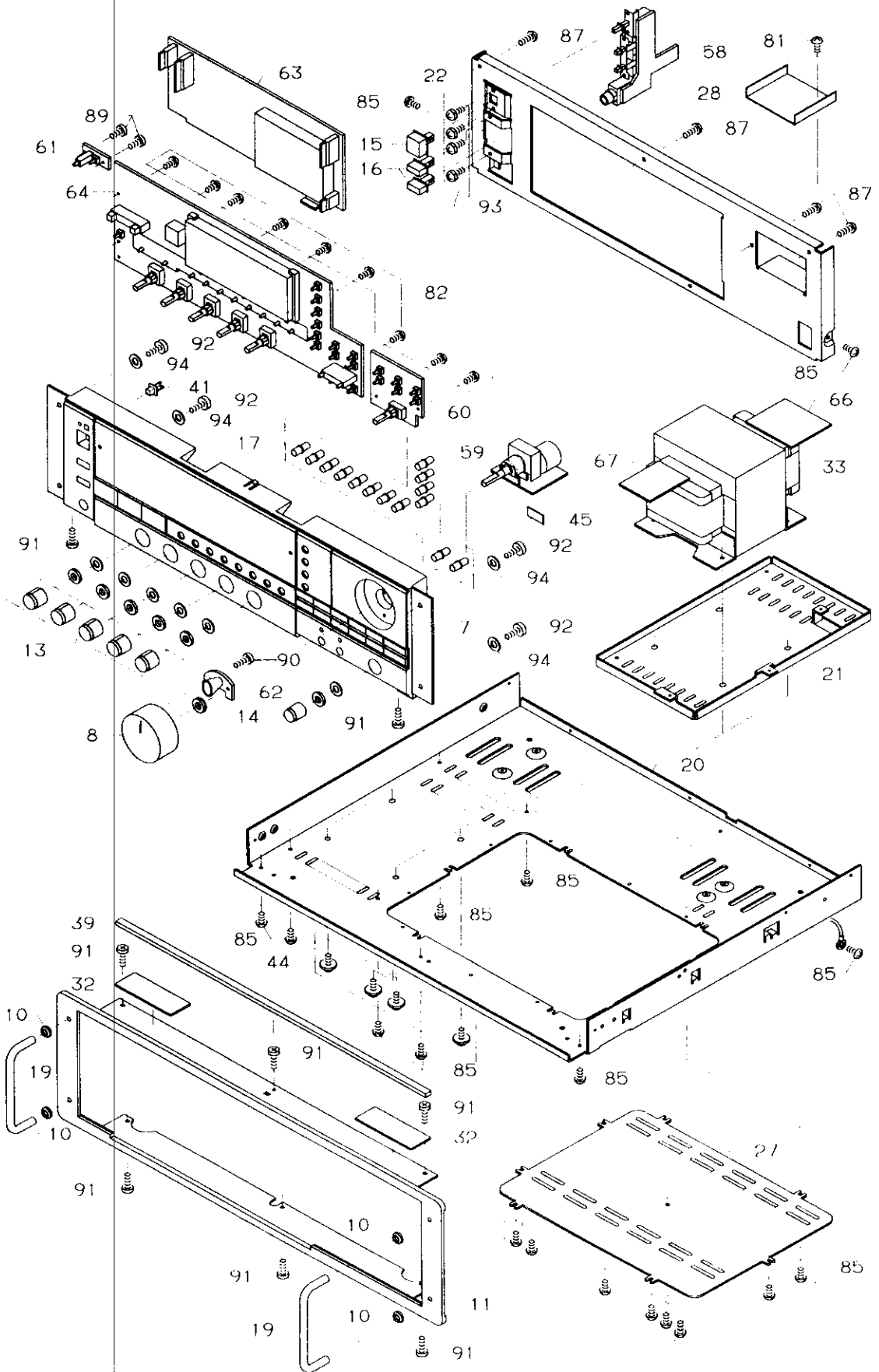
MICOM/GRAPHIC EQ P.C.BOARD (BOTTOM VIEW)



CABINET & CHASSIS EXPLODED VIEW (1)



CABINET & CHASSIS EXPLODED VIEW (2)



CABINET & CHASSIS PARTS LIST

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
PACKAGE				43	620 123 0284	SCR TPG BIN + M4.0X8	4
	620 000 0024	Bag Polyethylene	1	44	620 123 0833	SCR Bind TAP-B + M4X10	4
	620 208 5142	Inner Carton	1	45	620 123 7658	Sheet	1
	620 196 4844	Sheet,Poly	1				
	620 208 5159	Pad,Right	1	51	620 208 3520	Assy,PCB,Main	1
	620 208 5166	Pad,Left	1	52	620 208 3537	Assy,PCB,Bias (1)	1
	620 210 1064	Pad,Plain	2	53	620 208 3544	Assy,PCB,Bias (2)	1
	620 148 5639	Poly Cover 100 x 190	1	54	620 208 3551	Assy,PCB,Power Transistor	1
	620 152 7452	Serial No. Sheet	2	55	620 208 3575	Assy,PCB,Tuner	1
				56	620 208 3582	Assy,PCB,Input	1
ACCESSORIES				57	620 208 3599	Assy,PCB,Phono EQ.	1
	620 208 5289	Assy,Poly Cover	1	58	620 208 3605	Assy,PCB,Power/SP Switch	1
	620 024 3865	FM Antenna	1	59	620 208 3612	Assy,PCB,Master Volume	1
	620 028 2741	AM Loop Antenna	1	60	620 208 3629	Assy,PCB,Balance/SW	1
	620 030 8328	Dry Cell LR6 EXP	2	61	620 208 3636	Assy,PCB,Power SW/LED	1
	614 220 5082	Envelope	1	62	620 208 3643	Assy,PCB,LED Volume	1
	614 220 5099	Card,Warranty	1	63	620 208 3650	Assy,PCB,Micom/Graphic EQ	1
	614 220 5105	Card,Resistration	1	64	620 208 3667	Assy,PCB,Display/SW	1
	620 196 6855	ANT Adaptor 75-300 OHM	1	65	620 208 3674	Assy,PCB,SP Terminal	1
	620 208 5296	Instruction Manual	1	66	620 208 5913	Assy,PCB,Fuse (1)	1
	620 057 8783	Bag Fan	1	67	620 208 5920	Assy,PCB,Fuse (2)	1
	620 112 8123	Holder Antenna	1				
	620 208 5319	Remocon,RH-77	1	81	411 020 5508	SCR S-TPG BRZ 2.6X6	1
CABINET				82	411 020 5706	SCR S-TPG BRZ 2.6X8	9
	620 054 4184	Label	1	83	411 020 5904	SCR S-TPG BRZ 3X10	4
	620 054 4559	Label	1	84	411 020 6208	SCR S-TPG BRZ 3X12	4
	620 054 9950	Label (UL Caution)	1	85	411 020 7700	SCR S-TPG BRZ 3X6	23
	620 062 0574	Standard Label	1	86	411 099 9704	SCR S-TPG BRZ 3X6	8
	620 185 2356	Adhesive Sheet	2	87	411 020 8004	SCR S-TPG BRZ 3X8	5
	620 152 7452	Serial No. Sheet	1	88	411 099 9803	SCR S-TPG BRZ 3X8	14
1	△ 620 020 5153	AC Socket With/Polarity	2	89	411 021 0809	SCR S-TPG BIN 2X6	2
2	620 021 7248	Short Plug	2	90	411 021 3107	SCR S-TPG BIN 2.6X8	1
3	405 003 4008	TR 2SA1302-O [Q918]	1	91	411 021 6603	SCR S-TPG BIN 3X8	8
or	405 031 2205	TR 2SA1302-R	1	92	411 140 2708	SCR S-TPG BIN 4X12	4
4	405 076 6800	TR 2SB1231-P [Q937]	1	93	411 003 8908	SCR PAN + SW 3X6	4
or	405 076 6909	TR 2SB1231-Q	1	94	411 100 6005	WASHER V 4.5X10X0.8	4
5	405 017 7804	TR 2SC3281-O [Q915]	1				
or	405 017 7903	TR 2SC3281-R	1				
5	405 017 7804	TR 2SC3281-O [Q916]	1				
or	405 017 7903	TR 2SC3281-R	1				
6	405 076 7401	TR 2SD1841-P [Q938]	1				
or	405 056 5502	TR 2SD1841-Q	1				
7	620 208 5081	Assy,Cabinet	1				
8	620 209 9514	Assy,Knob, Rotary	1				
9	620 207 4207	Cover,Top	1				
10	620 209 1891	Ring	4				
11	620 205 7224	Panel,Front	1				
12	620 207 4184	Panel,Rear	1				
13	620 208 5067	Knob,Rotary	5				
14	620 208 5074	Knob,Rotary	1				
15	620 207 1138	Button,Power	1				
	620 207 1145	Button,Push	2				
	620 207 1183	Button,Station	14				
18	620 198 6983	Foot	4				
19	620 209 1884	Handle	2				
20	620 207 4245	Chassis	1				
21	620 207 4269	Chassis,Sub	1				
22	620 207 4252	Chassis,Front	1				
23	620 207 4306	Bracket-E,PCB RF	1				
24	620 207 4955	Bracket-E,PCB	1				
25	620 207 4276	Bracket-M,Right	1				
26	620 207 4283	Bracket-M,Left	1				
27	620 207 4238	Plate,Bottom	1				
28	620 209 3307	Shield,Plate VR	1				
29	620 210 1057	Reinforcement	2				
30	620 207 4221	Heat Sink	1				
31	620 209 0658	Spacer,Foot	4				
32	620 210 5680	Spacer,Cover	2				
33	△ 620 207 8472	Power Trans,UL CSA,240VA	1				
34	△ 620 208 4510	Power Cord,UL CSA	1				
35	620 051 1841	+ PTS-C M3.0X6	4				
36	620 051 2152	Screw Ground	1				
37	620 051 3708	Screw Braz. HD. + M3X8	8				
38	620 051 3739	Screw 3.0X12 Z SMS	8				
39	620 210 5673	Cushion	1				
40	620 053 2136	Bushing (Power Cord)	1				
41	620 185 3728	Knob Tact	1				
42	620 122 2111	Holder Antenna	1				

NOTES:

- Parts order must contain Model Number, Part Number and Description.
- Ordering quantity of screws and resistors must be multiple of 10 pcs.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol Δ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with Δ , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

P.C.BOARD PARTS LIST

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
ASSY,PCB,MAIN							
	620 208 3520	Assy,PCB,Main	1	or	405 042 9507	TR 2SC3902-S	1
	411 020 8004	SCR S-TPG BRZ 3X8	11	Q912	405 042 9408	TR 2SC3902-R	1
	620 202 3472	Terminal,Wrapper,2P	1	or	405 042 9507	TR 2SC3902-S	1
	620 202 4196	Terminal,Wrapper,3P	1	Q913	405 042 4007	TR 2SA1507-R	1
	620 207 0728	Terminal,Wrapper,3P,I-503	2	or	405 042 4106	TR 2SA1507-S	1
	620 208 8204	Terminal,5279-4P	2	Q914	405 042 4007	TR 2SA1507-R	1
	△ 620 207 8489	Power Trans,UL CSA,0.5VA	1	Q914	405 042 4106	TR 2SA1507-S	1
	620 053 6899	Cover Safety	1	Q919	405 019 2807	TR 2SC536-F-SPA-AC	1
	620 053 9241	Plate Heat Sink	11	or	405 019 3903	TR 2SC536-G-SPA-AC	1
CN701	620 208 6927	Socket,52147-11P	1	Q920	405 019 2807	TR 2SC536-F-SPA-AC	1
CN702	620 208 6927	Socket,52147-11P	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
CN703	620 201 6481	Socket,Jumper,8P	1	Q921	405 004 4601	TR 2SA608-F-SPA	1
CN704	620 205 5688	Connector-P,14P	1	or	405 004 5103	TR 2SA608-G-SPA	1
CN705	620 201 6443	Socket,Jumper,3P	1	Q922	405 004 4601	TR 2SA608-F-SPA	1
CN706	620 201 6481	Socket,Jumper,8P	1	or	405 004 5103	TR 2SA608-G-SPA	1
CN901	620 201 6481	Socket,Jumper,8P	1	Q923	405 039 5802	TR 2SC3792-AA	1
CN902	620 208 8228	Terminal,5279-6P	1	Q924	405 039 5802	TR 2SC3792-AA	1
CN904	620 208 6934	Socket,52147-12P	1	Q925	405 003 7603	TR 2SA1345-AC	1
CN905	620 201 6481	Socket,Jumper,8P	1	Q926	405 018 2501	TR 2SC3399-AC	1
CN906	620 202 7708	Socket,52147-0710,7P	1	Q927	405 037 0809	TR 2SC4048-AC	1
C960	△ 620 006 6679	Capacitor 0.01MF400V	1	Q928	405 019 2807	TR 2SC536-F-SPA-AC	1
ICP1	620 017 0727	Protector ICP-N10	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
ICP2	620 017 0727	Protector ICP-N10	1	Q929	405 019 2807	TR 2SC536-F-SPA-AC	1
ICP3	620 017 0727	Protector ICP-N10	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
ICP4	620 017 0727	Protector ICP-N10	1	Q930	405 019 2807	TR 2SC536-F-SPA-AC	1
JH801	620 202 9054	Socket,Holder,2P	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
JH911	620 202 9061	Socket,Holder,3P	1	Q931	405 003 7900	TR 2SA1348-AC	1
JH950	620 202 9061	Socket,Holder,3P	1	Q933	405 013 7204	TR 2SC2274K-E-AA	1
L901	620 027 1240	AF Coil	1	or	405 013 7303	TR 2SC2274K-F-AA	1
L902	620 027 1240	AF Coil	1	Q934	405 006 7006	TR 2SA984K-E-AA	1
RE901	△ 620 210 0500	Relay,Power,12V,TV8	1	or	405 006 7204	TR 2SA984K-F-AA	1
or	620 016 9707	Relay	1	Q935	405 042 4007	TR 2SA1507-R	1
RE902	620 196 1645	Relay,T-Cross DC24V	1	or	405 042 4106	TR 2SA1507-S	1
RE903	620 196 1645	Relay,T-Cross DC24V	1	Q936	405 042 9408	TR 2SC3902-R	1
R941	620 208 6675	Resistor,Cement 0.33X2 P	1	or	405 042 9507	TR 2SC3902-S	1
R942	620 208 6675	Resistor,Cement 0.33X2 P	1	Q939	405 034 5104	TR 2SK246-BL (TPE2)	1
VR901	620 208 6682	Potentiometer,470B,TP	1	or	405 027 0505	TR 2SK246-GR (TPE2)	1
VR902	620 208 6682	Potentiometer,470B,TP	1	Q940	405 034 5104	TR 2SK246-BL (TPE2)	1
W801	620 208 6958	Wire,Parallel,2P-180	1	or	405 027 0505	TR 2SK246-GR (TPE2)	1
W951	620 020 6877	Connector 1P Assy	1	Q941	405 022 8001	TR 2SD1682-S	1
IC701	409 057 4601	IC UPC4570HA	1	or	405 022 8209	TR 2SD1682-T	1
IC702	409 057 4601	IC UPC4570HA	1	Q942	405 007 0006	TR 2SB1142-S	1
IC703	409 057 4601	IC UPC4570HA	1	or	405 007 0204	TR 2SB1142-T	1
IC704	409 057 4601	IC UPC4570HA	1	Q943	405 034 5104	TR 2SK246-BL (TPE2)	1
IC705	409 057 4601	IC UPC4570HA	1	or	405 027 0505	TR 2SK246-GR (TPE2)	1
IC706	409 057 4601	IC UPC4570HA	1	Q944	405 022 8001	TR 2SD1682-S	1
IC707	409 057 4601	IC UPC4570HA	1	or	405 022 8209	TR 2SD1682-T	1
IC708	409 057 4601	IC UPC4570HA	1	Q945	405 004 4601	TR 2SA608-F-SPA	1
IC709	409 057 4601	IC UPC4570HA	1	or	405 004 5103	TR 2SA608-G-SPA	1
IC710	409 057 4601	IC UPC4570HA	1	Q946	405 037 0809	TR 2SC4048-AC	1
IC711	409 166 5308	IC TC9215P	1	Q947	405 022 8001	TR 2SD1682-S	1
IC712	409 166 5308	IC TC9215P	1	or	405 022 8209	TR 2SD1682-T	1
IC713	409 166 5308	IC TC9215P	1	D701	407 050 7704	ZENER DIODE GZA9.1Y-BT	1
IC714	409 018 5104	IC LA6458SS	1	D702	407 050 7704	ZENER DIODE GZA9.1Y-BT	1
IC901	409 114 4803	IC LB1641	1	D703	407 050 3706	ZENER DIODE GZA4.7Y-BT	1
Q701	405 039 5802	TR 2SC3792-AA	1	D901	407 125 8209	DIODE HSS271	1
Q702	405 039 5802	TR 2SC3792-AA	1	or	407 012 4208	DIODE 1SS131-T-77	1
Q703	405 039 5802	TR 2SC3792-AA	1	or	407 008 0405	DIODE GMB01-BT	1
Q704	405 039 5802	TR 2SC3792-AA	1	D902	407 125 8209	DIODE HSS271	1
Q705	405 003 7603	TR 2SA1345-AC	1	or	407 012 4208	DIODE 1SS131-T-77	1
Q706	405 003 7603	TR 2SA1345-AC	1	or	407 008 0405	DIODE GMB01-BT	1
Q901	405 004 4601	TR 2SA608-F-SPA	1	D903	407 125 8209	DIODE HSS271	1
or	405 004 5103	TR 2SA608-G-SPA	1	or	407 012 4208	DIODE 1SS131-T-77	1
Q902	405 004 4601	TR 2SA608-F-SPA	1	or	407 008 0405	DIODE GMB01-BT	1
or	405 004 5103	TR 2SA608-G-SPA	1	D904	407 125 8209	DIODE HSS271	1
Q903	405 016 8901	TR 2SC3066-F	1	or	407 012 4208	DIODE 1SS131-T-77	1
or	405 016 9007	TR 2SC3066-G	1	or	407 008 0405	DIODE GMB01-BT	1
Q904	405 016 8901	TR 2SC3066-F	1	D905	407 125 8209	DIODE HSS271	1
or	405 016 9007	TR 2SC3066-G	1	or	407 012 4208	DIODE 1SS131-T-77	1
Q905	405 002 9103	TR 2SA1209-S	1	or	407 008 0405	DIODE GMB01-BT	1
or	405 002 9202	TR 2SA1209-T	1	D906	407 125 8209	DIODE HSS271	1
Q906	405 002 9103	TR 2SA1209-S	1	or	407 012 4208	DIODE 1SS131-T-77	1
or	405 002 9202	TR 2SA1209-T	1	or	407 008 0405	DIODE GMB01-BT	1
Q907	405 016 3906	TR 2SC2911-S	1	D907	407 049 7807	ZENER DIODE GZA18Y-BT	1
or	405 016 4002	TR 2SC2911-T	1	D909	407 125 8209	DIODE HSS271	1
Q908	405 016 3906	TR 2SC2911-S	1	or	407 012 4208	DIODE 1SS131-T-77	1
or	405 016 4002	TR 2SC2911-T	1	or	407 008 0405	DIODE GMB01-BT	1
Q911	405 042 9408	TR 2SC3902-R	1	D910	407 125 8209	DIODE HSS271	1
				or	407 012 4208	DIODE 1SS131-T-77	1

P.C. BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
or	407 008 0405	DIODE GMB01-BT	1	C723	403 056 7304	POLYESTER 1000P J 50V	1
D911	407 125 8209	DIODE HSS271	1	C724	403 056 7304	POLYESTER 1000P J 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C725	403 056 7304	POLYESTER 1000P J 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C726	403 056 7304	POLYESTER 1000P J 50V	1
D912	407 125 8209	DIODE HSS271	1	C727	403 056 7304	POLYESTER 1000P J 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C728	403 056 7304	POLYESTER 1000P J 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C729	403 056 7304	POLYESTER 1000P J 50V	1
D913	407 125 8209	DIODE HSS271	1	C730	403 056 7304	POLYESTER 1000P J 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C731	403 071 6207	CERAMIC 220P K 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C732	403 071 6207	CERAMIC 220P K 50V	1
D914	407 125 8209	DIODE HSS271	1	C733	403 059 3006	POLYESTER 2200P J 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C734	403 059 3006	POLYESTER 2200P J 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C735	403 058 7609	POLYESTER 1800P J 50V	1
D915	407 125 8209	DIODE HSS271	1	C736	403 058 7609	POLYESTER 1800P J 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C737	403 058 7609	POLYESTER 1800P J 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C738	403 058 7609	POLYESTER 1800P J 50V	1
D916	407 125 8209	DIODE HSS271	1	C739	403 051 2106	ELECT 4.7U M 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C740	403 051 2106	ELECT 4.7U M 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C741	403 026 2209	CERAMIC 47P J 50V	1
D917	407 004 9600	DIODE DSF10TC-BT	1	C742	403 026 2209	CERAMIC 47P J 50V	1
D918	407 004 9600	DIODE DSF10TC-BT	1	C743	403 045 0606	ELECT 100U M 25V	1
D919	407 012 4208	DIODE 1SS131-T-77	1	C744	403 045 0606	ELECT 100U M 25V	1
D920	407 012 4208	DIODE 1SS131-T-77	1	C745	403 045 0606	ELECT 100U M 25V	1
D921	407 012 4208	DIODE 1SS131-T-77	1	C746	403 045 0606	ELECT 100U M 25V	1
D922	407 012 4208	DIODE 1SS131-T-77	1	C751	403 039 7901	ELECT 100U M 10V	1
323	407 088 3105	DIODE D5C30TC-KD2	1	C752	403 039 7901	ELECT 100U M 10V	1
D924	407 088 3105	DIODE D5C30TC-KD2	1	C753	403 071 6207	CERAMIC 220P K 50V	1
D925	407 088 3105	DIODE D5C30TC-KD2	1	C754	403 071 6207	CERAMIC 220P K 50V	1
D926	407 088 3105	DIODE D5C30TC-KD2	1	C755	403 067 7706	MT-COMPO 0.047U J 50V	1
D927	407 088 3105	DIODE D5C30TC-KD2	1	C756	403 067 7706	MT-COMPO 0.047U J 50V	1
D928	407 088 3105	DIODE D5C30TC-KD2	1	C757	403 051 2106	ELECT 4.7U M 50V	1
D929	407 092 3900	DIODE D5B15TC-KC5	1	C758	403 051 2106	ELECT 4.7U M 50V	1
D930	407 092 3900	DIODE D5B15TC-KC5	1	C759	403 026 2209	CERAMIC 47P J 50V	1
D931	407 092 3900	DIODE D5B15TC-KC5	1	C760	403 026 2209	CERAMIC 47P J 50V	1
D932	407 092 3900	DIODE D5B15TC-KC5	1	C761	403 049 5508	ELECT 10U M 50V	1
D933	407 049 7807	ZENER DIODE GZA18Y-BT	1	C762	403 049 5508	ELECT 10U M 50V	1
D934	407 049 7807	ZENER DIODE GZA18Y-BT	1	C763	403 059 3006	POLYESTER 2200P J 50V	1
D935	407 140 7201	DIODE DSR10C-ET5	1	C764	403 059 3006	POLYESTER 2200P J 50V	1
D936	407 140 7201	DIODE DSR10C-ET5	1	C765	403 042 3600	ELECT 100U M 16V	1
D937	407 140 7201	DIODE DSR10C-ET5	1	C766	403 042 3600	ELECT 100U M 16V	1
D938	407 140 7201	DIODE DSR10C-ET5	1	C767	403 039 7901	ELECT 100U M 10V	1
D939	407 050 3300	ZENER DIODE GZA4.3X-BT	1	C771	403 068 9402	CERAMIC 100P K 50V	1
D940	407 049 6602	ZENER DIODE GZA13Y-BT	1	C772	403 068 9402	CERAMIC 100P K 50V	1
D941	407 050 5502	ZENER DIODE GZA5.6Y-BT	1	C773	403 049 5508	ELECT 10U M 50V	1
D942	407 050 0408	ZENER DIODE GZA27Y-BT	1	C774	403 049 5508	ELECT 10U M 50V	1
D943	407 140 7201	DIODE DSR10C-ET5	1	C901	403 051 2106	ELECT 4.7U M 50V	1
D944	407 140 7201	DIODE DSR10C-ET5	1	C902	403 051 2106	ELECT 4.7U M 50V	1
D945	407 140 7201	DIODE DSR10C-ET5	1	C903	403 071 6207	CERAMIC 220P K 50V	1
D946	407 140 7201	DIODE DSR10C-ET5	1	C904	403 071 6207	CERAMIC 220P K 50V	1
D947	407 140 7201	DIODE DSR10C-ET5	1	C905	403 039 7901	ELECT 100U M 10V	1
D948	407 140 7201	DIODE DSR10C-ET5	1	C906	403 039 7901	ELECT 100U M 10V	1
D949	407 140 7201	DIODE DSR10C-ET5	1	C907	403 034 8101	CERAMIC 1P C 500V	1
D950	407 140 7201	DIODE DSR10C-ET5	1	C908	403 034 8101	CERAMIC 1P C 500V	1
D951	407 140 7201	DIODE DSR10C-ET5	1	C909	403 035 2207	CERAMIC 15P K 500V	1
D952	407 051 7505	ZENER DIODE GZS6.8Y-BT	1	C910	403 035 2207	CERAMIC 15P K 500V	1
TH901	407 065 0707	THERMISTOR ZPP221E501A	1	C911	403 035 2207	CERAMIC 15P K 500V	1
C1	403 071 6207	CERAMIC 220P K 50V	1	C912	403 035 2207	CERAMIC 15P K 500V	1
C2	403 071 6207	CERAMIC 220P K 50V	1	C913	403 049 5508	ELECT 10U M 50V	1
C701	403 060 5402	POLYESTER 3300P J 50V	1	C915	403 034 9900	CERAMIC 100P K 500V	1
C702	403 060 5402	POLYESTER 3300P J 50V	1	C916	403 034 9900	CERAMIC 100P K 500V	1
C703	403 067 7706	MT-COMPO 0.047U J 50V	1	C917	403 034 9900	CERAMIC 100P K 500V	1
C704	403 067 7706	MT-COMPO 0.047U J 50V	1	C918	403 034 9900	CERAMIC 100P K 500V	1
C705	403 067 8406	MT-COMPO 0.082U J 50V	1	C919	403 049 1708	ELECT 1U M 50V	1
C706	403 074 9205	CERAMIC 680P K 50V	1	C920	403 049 1708	ELECT 1U M 50V	1
C707	403 057 5309	POLYESTER 1200P J 50V	1	C921	403 049 1708	ELECT 1U M 50V	1
C708	403 057 5309	POLYESTER 1200P J 50V	1	C922	403 049 1708	ELECT 1U M 50V	1
C709	403 060 0001	POLYESTER 2700P J 50V	1	C923	403 049 1708	ELECT 1U M 50V	1
C710	403 067 5900	MT-COMPO 0.12U J 50V	1	C924	403 049 1708	ELECT 1U M 50V	1
C711	403 067 8208	MT-COMPO 0.068U J 50V	1	C925	403 067 7706	MT-COMPO 0.047U J 50V	1
C712	403 138 5600	POLYESTER 5600P J 50V	1	C926	403 067 7706	MT-COMPO 0.047U J 50V	1
C713	403 138 5600	POLYESTER 5600P J 50V	1	C927	403 049 1708	ELECT 1U M 50V	1
C715	403 056 7304	POLYESTER 1000P J 50V	1	C928	403 049 1708	ELECT 1U M 50V	1
C716	403 056 7304	POLYESTER 1000P J 50V	1	C929	403 044 0300	ELECT 47U M 16V	1
C717	403 056 7304	POLYESTER 1000P J 50V	1	C930	403 051 2106	ELECT 4.7U M 50V	1
C718	403 056 7304	POLYESTER 1000P J 50V	1	C931	403 035 7103	CERAMIC 220P K 500V	1
C719	403 056 7304	POLYESTER 1000P J 50V	1	C932	403 035 7103	CERAMIC 220P K 500V	1
C720	403 056 7304	POLYESTER 1000P J 50V	1	C933	403 035 7103	CERAMIC 220P K 500V	1
C721	403 056 7304	POLYESTER 1000P J 50V	1	C934	403 035 7103	CERAMIC 220P K 500V	1
C722	403 056 7304	POLYESTER 1000P J 50V	1	C935	404 012 7703	ELECT 8200U M 80V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
or	404 045 4908	ELECT	8200U M 80V	1	R749	401 026 5503 CARBON	360 JA 1/6W
C936	404 012 7703	ELECT	8200U M 80V	1	R750	401 026 5503 CARBON	360 JA 1/6W
or	404 045 4908	ELECT	8200U M 80V	1	R751	401 027 1603 CARBON	5.1K JA 1/6W
C937	404 012 5303	ELECT	4700U M 35V	1	R752	401 027 1603 CARBON	5.1K JA 1/6W
C938	404 012 5303	ELECT	4700U M 35V	1	R753	401 027 7209 CARBON	7.5K JA 1/6W
C939	403 049 5508	ELECT	10U M 50V	1	R754	401 027 7209 CARBON	7.5K JA 1/6W
C940	403 049 5508	ELECT	10U M 50V	1	R755	401 025 6501 CARBON	20K JA 1/6W
C941	403 045 0606	ELECT	100U M 25V	1	R756	401 025 6501 CARBON	20K JA 1/6W
C942	403 045 0606	ELECT	100U M 25V	1	R757	401 027 7209 CARBON	7.5K JA 1/6W
C943	403 069 1207	CERAMIC	1000P K 50V	1	R758	401 027 7209 CARBON	7.5K JA 1/6W
C944	403 067 5603	MT-COMPO	0.1U J 50V	1	R759	401 024 9305 CARBON	1.2K JA 1/6W
C945	403 045 2907	ELECT	1000U M 25V	1	R760	401 024 9305 CARBON	1.2K JA 1/6W
C946	403 049 5508	ELECT	10U M 50V	1	R761	401 026 2700 CARBON	300 JA 1/6W
C947	403 042 3600	ELECT	100U M 16V	1	R762	401 026 2700 CARBON	300 JA 1/6W
C948	403 039 7901	ELECT	100U M 10V	1	R763	401 027 1603 CARBON	5.1K JA 1/6W
C949	403 050 5405	ELECT	220U M 50V	1	R764	401 027 1603 CARBON	5.1K JA 1/6W
C950	403 054 1304	ELECT	47U M 35V	1	R765	401 027 7209 CARBON	7.5K JA 1/6W
C951	403 049 5508	ELECT	10U M 50V	1	R766	401 027 7209 CARBON	7.5K JA 1/6W
C952	403 043 7102	ELECT	330U M 16V	1	R767	401 025 6501 CARBON	20K JA 1/6W
C953	403 039 7901	ELECT	100U M 10V	1	R768	401 025 6501 CARBON	20K JA 1/6W
C954	403 039 7901	ELECT	100U M 10V	1	R769	401 027 7209 CARBON	7.5K JA 1/6W
C955	403 177 3902	CERAMIC	0.01U Z 500V	1	R770	401 027 7209 CARBON	7.5K JA 1/6W
C956	403 177 3902	CERAMIC	0.01U Z 500V	1	R771	401 024 9305 CARBON	1.2K JA 1/6W
C957	403 069 5205	CERAMIC	0.01U K 50V	1	R772	401 024 9305 CARBON	1.2K JA 1/6W
C958	403 177 3902	CERAMIC	0.01U Z 500V	1	R773	401 026 5503 CARBON	360 JA 1/6W
C959	403 069 5205	CERAMIC	0.01U K 50V	1	R774	401 026 5503 CARBON	360 JA 1/6W
C963	403 136 1604	ELECT	47U M 100V	1	R775	401 027 1603 CARBON	5.1K JA 1/6W
C964	403 136 1604	ELECT	47U M 100V	1	R776	401 027 1603 CARBON	5.1K JA 1/6W
C965	403 136 1604	ELECT	47U M 100V	1	R777	401 027 7209 CARBON	7.5K JA 1/6W
C966	403 136 1604	ELECT	47U M 100V	1	R778	401 027 7209 CARBON	7.5K JA 1/6W
R1	401 026 9907	CARBON	4.7K JA 1/6W	1	R779	401 025 6501 CARBON	20K JA 1/6W
R2	401 026 9907	CARBON	4.7K JA 1/6W	1	R780	401 025 6501 CARBON	20K JA 1/6W
R701	401 025 6501	CARBON	20K JA 1/6W	1	R781	401 027 7209 CARBON	7.5K JA 1/6W
R702	401 025 6501	CARBON	20K JA 1/6W	1	R782	401 027 7209 CARBON	7.5K JA 1/6W
R703	401 026 5800	CARBON	3.6K JA 1/6W	1	R783	401 024 9305 CARBON	1.2K JA 1/6W
R704	401 026 5800	CARBON	3.6K JA 1/6W	1	R784	401 024 9305 CARBON	1.2K JA 1/6W
R705	401 026 7002	CARBON	3.9K JA 1/6W	1	R785	401 026 5503 CARBON	360 JA 1/6W
R706	401 026 7002	CARBON	3.9K JA 1/6W	1	R786	401 026 5503 CARBON	360 JA 1/6W
R707	401 026 4308	CARBON	3.3K JA 1/6W	1	R787	401 024 7400 CARBON	10K JA 1/6W
R708	401 026 4308	CARBON	3.3K JA 1/6W	1	R788	401 024 7400 CARBON	10K JA 1/6W
R709	401 027 8602	CARBON	8.2K JA 1/6W	1	R789	401 024 7400 CARBON	10K JA 1/6W
R710	401 027 8602	CARBON	8.2K JA 1/6W	1	R790	401 024 7400 CARBON	10K JA 1/6W
R711	401 025 6501	CARBON	20K JA 1/6W	1	R791	401 027 7209 CARBON	7.5K JA 1/6W
R712	401 025 6501	CARBON	20K JA 1/6W	1	R792	401 027 7209 CARBON	7.5K JA 1/6W
R713	401 026 7002	CARBON	3.9K JA 1/6W	1	R793	401 026 1307 CARBON	27K JA 1/6W
R714	401 026 7002	CARBON	3.9K JA 1/6W	1	R794	401 026 1307 CARBON	27K JA 1/6W
R715	401 026 7002	CARBON	3.9K JA 1/6W	1	R795	401 027 5502 CARBON	6.8K JA 1/6W
R716	401 026 7002	CARBON	3.9K JA 1/6W	1	R796	401 027 5502 CARBON	6.8K JA 1/6W
R717	401 025 4606	CARBON	18K JA 1/6W	1	R797	401 026 3202 CARBON	30K JA 1/6W
R718	401 026 5800	CARBON	3.6K JA 1/6W	1	R798	401 026 3202 CARBON	30K JA 1/6W
R719	401 024 7004	CARBON	1K JA 1/6W	1	R799	401 026 3202 CARBON	30K JA 1/6W
R720	401 026 7002	CARBON	3.9K JA 1/6W	1	R800	401 026 3202 CARBON	30K JA 1/6W
R721	401 026 2908	CARBON	3K JA 1/6W	1	R801	401 025 0806 CARBON	13K JA 1/6W
R722	401 026 7002	CARBON	3.9K JA 1/6W	1	R802	401 025 0806 CARBON	13K JA 1/6W
R723	401 026 7002	CARBON	3.9K JA 1/6W	1	R803	401 025 1902 CARBON	15K JA 1/6W
R724	401 026 7002	CARBON	3.9K JA 1/6W	1	R804	401 025 1902 CARBON	15K JA 1/6W
R725	401 025 6501	CARBON	20K JA 1/6W	1	R805	401 024 7004 CARBON	1K JA 1/6W
R726	401 025 6501	CARBON	20K JA 1/6W	1	R806	401 024 7004 CARBON	1K JA 1/6W
R727	401 024 7400	CARBON	10K JA 1/6W	1	R807	401 027 1306 CARBON	510 JA 1/6W
R728	401 028 0209	CARBON	9.1K JA 1/6W	1	R808	401 027 1306 CARBON	510 JA 1/6W
R729	401 024 7004	CARBON	1K JA 1/6W	1	R809	401 026 9303 CARBON	47 JA 1/6W
R730	401 024 8407	CARBON	1.1K JA 1/6W	1	R810	401 026 9303 CARBON	47 JA 1/6W
R731	401 025 4606	CARBON	18K JA 1/6W	1	R811	401 027 0309 CARBON	47K JA 1/6W
R732	401 026 7002	CARBON	3.9K JA 1/6W	1	R812	401 027 0309 CARBON	47K JA 1/6W
R733	401 026 7002	CARBON	3.9K JA 1/6W	1	R813	402 037 6909 FUSIBLE RES	82 JA 1/4W
R734	401 025 3005	CARBON	1.6K JA 1/6W	1	R814	402 037 6909 FUSIBLE RES	82 JA 1/4W
R735	401 025 3005	CARBON	1.6K JA 1/6W	1	R815	402 037 6909 FUSIBLE RES	82 JA 1/4W
R736	401 026 7002	CARBON	3.9K JA 1/6W	1	R816	402 037 6909 FUSIBLE RES	82 JA 1/4W
R737	401 026 2908	CARBON	3K JA 1/6W	1	R851	402 039 9502 OXIDE-MT	270 JB 1W
R739	401 027 1603	CARBON	5.1K JA 1/6W	1	R852	402 039 9502 OXIDE-MT	270 JB 1W
R740	401 027 1603	CARBON	5.1K JA 1/6W	1	R853	401 024 6700 CARBON	100 JA 1/6W
R741	401 027 7209	CARBON	7.5K JA 1/6W	1	R854	401 024 6700 CARBON	100 JA 1/6W
R742	401 027 7209	CARBON	7.5K JA 1/6W	1	R855	401 026 9907 CARBON	4.7K JA 1/6W
R743	401 025 6501	CARBON	20K JA 1/6W	1	R856	401 020 2003 CARBON	4.7K JA 1/4W
R744	401 025 6501	CARBON	20K JA 1/6W	1	R857	401 027 2600 CARBON	5.6K JA 1/6W
R745	401 027 7209	CARBON	7.5K JA 1/6W	1	R858	401 027 2600 CARBON	5.6K JA 1/6W
R746	401 027 7209	CARBON	7.5K JA 1/6W	1	R859	401 024 7004 CARBON	1K JA 1/6W
R747	401 024 9305	CARBON	1.2K JA 1/6W	1	R860	401 024 7004 CARBON	1K JA 1/6W
R748	401 024 9305	CARBON	1.2K JA 1/6W	1	R861	401 027 3003 CARBON	56K JA 1/6W

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty		
R862	401 027 3003	CARBON	56K JA 1/6W	1	R959	401 027 0309	CARBON	47K JA 1/6W	1
R863	401 027 2600	CARBON	5.6K JA 1/6W	1	R960	401 024 7400	CARBON	10K JA 1/6W	1
R864	401 027 2600	CARBON	5.6K JA 1/6W	1	R961	401 021 4105	CARBON	56K JA 1/4W	1
R865	401 025 8208	CARBON	22K JA 1/6W	1	R962	401 027 3003	CARBON	56K JA 1/6W	1
R866	401 025 8208	CARBON	22K JA 1/6W	1	R963	401 025 1902	CARBON	15K JA 1/6W	1
R867	401 027 0309	CARBON	47K JA 1/6W	1	R964	401 025 1902	CARBON	15K JA 1/6W	1
R868	401 027 0309	CARBON	47K JA 1/6W	1	R965	401 024 9701	CARBON	12K JA 1/6W	1
R869	401 027 6905	CARBON	750 JA 1/6W	1	R966	401 024 9701	CARBON	12K JA 1/6W	1
R870	401 027 6905	CARBON	750 JA 1/6W	1	R967	401 027 0507	CARBON	470K JA 1/6W	1
R871	401 027 6608	CARBON	75 JA 1/6W	1	R968	401 027 0507	CARBON	470K JA 1/6W	1
R872	401 027 6608	CARBON	75 JA 1/6W	1	R969	401 014 4501	CARBON	1.5K JA 1/4W	1
R873	401 025 8208	CARBON	22K JA 1/6W	1	R970	401 014 4501	CARBON	1.5K JA 1/4W	1
R874	401 025 8208	CARBON	22K JA 1/6W	1	R971	401 014 4501	CARBON	1.5K JA 1/4W	1
R875	401 025 8208	CARBON	22K JA 1/6W	1	R972	401 014 4501	CARBON	1.5K JA 1/4W	1
R876	401 025 8208	CARBON	22K JA 1/6W	1	R973	401 015 2704	CARBON	1.8K JA 1/4W	1
R877	401 027 0309	CARBON	47K JA 1/6W	1	R974	401 015 2704	CARBON	1.8K JA 1/4W	1
R878	401 027 0309	CARBON	47K JA 1/6W	1	R975	401 027 2600	CARBON	5.6K JA 1/6W	1
R879	401 018 2800	CARBON	330 JA 1/4W	1	R976	401 027 2600	CARBON	5.6K JA 1/6W	1
R880	401 018 2800	CARBON	330 JA 1/4W	1	R977	401 012 3407	CARBON	10 JA 1/4W	1
R881	401 019 1000	CARBON	390 JA 1/4W	1	R978	401 012 7009	CARBON	10K JA 1/4W	1
R882	401 019 1000	CARBON	390 JA 1/4W	1	R980	402 039 6105	OXIDE-MT	180 JB 1/2W	1
R883	401 017 1804	CARBON	2.7K JA 1/4W	1	R981	401 012 5708	CARBON	1K JA 1/4W	1
R885	401 024 8001	CARBON	1M JA 1/6W	1	R982	401 027 0309	CARBON	47K JA 1/6W	1
R886	401 024 8001	CARBON	1M JA 1/6W	1	R983	401 026 0607	CARBON	270 JA 1/6W	1
R901	401 012 5708	CARBON	1K JA 1/4W	1	R984	401 027 8305	CARBON	820 JA 1/6W	1
R901	401 012 5708	CARBON	1K JA 1/4W	1	R985	402 023 3905	CARBON	3.9M JA 1/2W	1
R904	401 024 7707	CARBON	100K JA 1/6W	1	R986	402 036 4302	FUSIBLE RES	100 J- 1/4W	1
R905	401 024 7707	CARBON	100K JA 1/6W	1	R987	402 036 4302	FUSIBLE RES	100 J- 1/4W	1
R906	401 024 7707	CARBON	100K JA 1/6W	1	R989	402 059 4808	FUSIBLE RES	10 JA 1/4W	1
R907	401 021 0701	CARBON	56 JA 1/4W	1	R990	402 059 4808	FUSIBLE RES	10 JA 1/4W	1
R908	401 021 0701	CARBON	56 JA 1/4W	1	R991	402 037 7005	FUSIBLE RES	47 JA 1/4W	1
R909	401 021 0701	CARBON	56 JA 1/4W	1	R992	402 037 7005	FUSIBLE RES	47 JA 1/4W	1
R910	401 021 0701	CARBON	56 JA 1/4W	1	R993	402 037 7005	FUSIBLE RES	47 JA 1/4W	1
R911	401 024 7400	CARBON	10K JA 1/6W	1	R994	402 037 7005	FUSIBLE RES	47 JA 1/4W	1
R912	401 024 7400	CARBON	10K JA 1/6W	1	R995	401 024 7004	CARBON	1K JA 1/6W	1
R913	401 025 1902	CARBON	15K JA 1/6W	1	ASSY,PCB,BIAS (1)				
R914	401 025 1902	CARBON	15K JA 1/6W	1	620 208 3537	Assy,PCB,Bias (1)		1	
R915	401 027 3003	CARBON	56K JA 1/6W	1	JH901	620 202 9061	Socket,Holder,3P	1	
R916	401 027 3003	CARBON	56K JA 1/6W	1	W901	620 208 6736	Wire,Parallel,3P-100	1	
R917	401 025 4200	CARBON	1.8K JA 1/6W	1	Q909	405 022 8001	TR 2SD1682-S	1	
R918	401 025 4200	CARBON	1.8K JA 1/6W	1	or	405 022 8209	TR 2SD1682-T	1	
R919	402 059 7403	FUSIBLE RES	82 JB 1/4W	1	ASSY,PCB,BIAS (2)				
R920	402 059 7403	FUSIBLE RES	82 JB 1/4W	1	620 208 3544	Assy,PCB,Bias (2)		1	
R921	401 025 9809	CARBON	2.4K JA 1/6W	1	620 202 9061	Socket,Holder,3P		1	
R922	401 025 9809	CARBON	2.4K JA 1/6W	1	W950	620 208 6736	Wire,Parallel,3P-100	1	
R923	401 024 7004	CARBON	1K JA 1/6W	1	Q910	405 022 8001	TR 2SD1682-S	1	
R924	401 024 7004	CARBON	1K JA 1/6W	1	or	405 022 8209	TR 2SD1682-T	1	
R925	401 021 4105	CARBON	56K JA 1/4W	1	ASSY,PCB,POWER TRANSISTOR				
R926	401 021 4105	CARBON	56K JA 1/4W	1	620 208 3551	Assy,PCB,Power Transistor		1	
R927	402 059 7403	FUSIBLE RES	82 JB 1/4W	1	Q917	405 003 4008	TR 2SA1302-O	1	
R928	402 059 7403	FUSIBLE RES	82 JB 1/4W	1	or	405 031 2205	TR 2SA1302-R	1	
R930	402 039 8604	OXIDE-MT	4.7K JB 1W	1	ASSY,PCB,TUNER				
R931	402 059 7304	FUSIBLE RES	47 JB 1/4W	1	620 208 3575	Assy,PCB,Tuner		1	
R933	402 059 7304	FUSIBLE RES	47 JB 1/4W	1	620 021 6814	Pin 1P		7	
R934	402 059 7304	FUSIBLE RES	47 JB 1/4W	1	620 208 3322	Terminal,2P,Push		1	
R935	402 039 9403	OXIDE-MT	330 JB 1W	1	620 208 3285	Terminal,ANT FM (F Type)		1	
R936	402 039 9403	OXIDE-MT	330 JB 1W	1	CF101	620 014 5589	Ceramic Filter	1	
R937	402 059 7205	FUSIBLE RES	2.2 JB 1/4W	1	CF102	620 014 5664	Ceramic Filter	1	
R938	402 059 7205	FUSIBLE RES	2.2 JB 1/4W	1	CF103	620 196 6848	Filter Ceramic,SFP450H	1	
R939	402 059 7205	FUSIBLE RES	2.2 JB 1/4W	1	CF104	620 014 5879	Ceramic Filter 450kHz	1	
R940	402 059 7205	FUSIBLE RES	2.2 JB 1/4W	1	CN104	620 205 5527	Connector-S,14P	1	
R943	402 059 3108	FUSIBLE RES	1K J- 1/4W	1	CR101	620 014 6319	Ceramic OSC CSB456F11	1	
R944	402 059 3108	FUSIBLE RES	1K J- 1/4W	1	FE101	620 208 3087	Tuner,FM,Front END	1	
R945	402 059 3108	FUSIBLE RES	1K J- 1/4W	1	TC101	620 007 0867	Trimmer 10PF	1	
R946	402 059 3108	FUSIBLE RES	1K J- 1/4W	1	T101	620 208 3049	Coil,Ferrite,MW Antenna	1	
R947	401 014 0008	CARBON	13K JA 1/4W	1	T102	620 185 9058	OSC Coil MW	1	
R948	401 014 0008	CARBON	13K JA 1/4W	1	T103	620 196 6695	Trans,IF,AM	1	
R949	401 019 6203	CARBON	4.7 JA 1/4W	1	T104	620 189 6008	IFT DET 10.7MHz 1st K	1	
R950	401 019 6203	CARBON	4.7 JA 1/4W	1	T105	620 189 6015	IFT DET 10.7MHz 2nd K	1	
R951	402 039 6303	OXIDE-MT	10 JB 1W	1	T107	620 208 3032	Filter,L.P.F.MPX	1	
R952	402 039 6303	OXIDE-MT	10 JB 1W	1	T108	620 208 3032	Filter,L.P.F.MPX	1	
R953	402 039 9007	OXIDE-MT	1K JB 1W	1	VR101	620 202 2079	Potentiometer,10KB,TP	1	
R954	402 039 9007	OXIDE-MT	1K JB 1W	1	VR102	620 204 9335	Potentiometer,100KB,TP	1	
R955	401 016 2604	CARBON	220 JA 1/4W	1	VR103	620 204 9335	Potentiometer,100KB,TP	1	
R956	401 016 2604	CARBON	220 JA 1/4W	1	VR104	620 204 9335	Potentiometer,100KB,TP	1	
R957	401 026 9907	CARBON	4.7K JA 1/6W	1					
R958	401 026 9907	CARBON	4.7K JA 1/6W	1					

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
VR105	620 202 2079	Potentiometer, 10KB, TP	1	C118	403 042 0401	ELECT 10U M 16V	1
X101	620 007 1338	Crystal 7.2MHz	1	C119	403 001 2309	CERAMIC 0.01U N 16V	1
IC101	409 073 9505	IC LA1266	1	C120	403 067 5603	MT-COMPO 0.1U J 50V	1
IC102	409 017 1008	IC LA3401	1	C121	403 042 0401	ELECT 10U M 16V	1
IC103	409 066 7600	IC LM7001	1	C122	403 074 2701	CERAMIC 0.047U Z 50V	1
IC104	409 057 4601	IC UPC4570HA	1	C123	403 074 2701	CERAMIC 0.047U Z 50V	1
IC105	409 057 4601	IC UPC4570HA	1	C124	403 049 5508	ELECT 10U M 50V	1
IC106	409 057 4601	IC UPC4570HA	1	C125	403 069 1207	CERAMIC 1000P K 50V	1
IC107	409 057 4601	IC UPC4570HA	1	C126	403 049 1708	ELECT 1U M 50V	1
IC108	409 057 4601	IC UPC4570HA	1	C127	403 074 2701	CERAMIC 0.047U Z 50V	1
IC109	409 166 5308	IC TC9215P	1	C128	403 042 3600	ELECT 100U M 16V	1
Q101	405 027 0505	TR 2SK246-GR (TPE2)	1	C129	403 026 2209	CERAMIC 47P J 50V	1
Q102	405 027 0505	TR 2SK246-GR (TPE2)	1	C130	403 044 0300	ELECT 47U M 16V	1
Q103	405 027 8402	TR 2SK583	1	C131	403 042 3600	ELECT 100U M 16V	1
Q104	405 016 0905	TR 2SC2839-E-SPA-AC	1	C132	403 048 7701	ELECT 0.47U M 50V	1
or	405 016 1100	TR 2SC2839-F-SPA-AC	1	C133	403 049 1708	ELECT 1U M 50V	1
Q105	405 016 0905	TR 2SC2839-E-SPA-AC	1	C134	403 050 1308	ELECT 2.2U M 50V	1
or	405 016 1100	TR 2SC2839-F-SPA-AC	1	C135	403 001 2309	CERAMIC 0.01U N 16V	1
Q109	405 003 7603	TR 2SA1345-AC	1	C136	403 057 0601	POLYESTER 0.01U K 50V	1
Q110	405 003 7603	TR 2SA1345-AC	1	C137	403 067 7706	MT-COMPO 0.047U J 50V	1
Q111	405 003 5203	TR 2SA1317-S-AC	1	C139	403 073 3204	CERAMIC 390P K 50V	1
or	405 003 5302	TR 2SA1317-T-AC	1	C140	403 049 5508	ELECT 10U M 50V	1
Q112	405 017 9501	TR 2SC3330-S-AC	1	C141	403 073 3204	CERAMIC 390P K 50V	1
or	405 017 9600	TR 2SC3330-T-AC	1	C142	403 073 3204	CERAMIC 390P K 50V	1
Q113	405 017 9501	TR 2SC3330-S-AC	1	C143	403 049 5508	ELECT 10U M 50V	1
or	405 017 9600	TR 2SC3330-T-AC	1	C144	403 049 5508	ELECT 10U M 50V	1
Q114	405 017 9501	TR 2SC3330-S-AC	1	C145	403 049 5508	ELECT 10U M 50V	1
or	405 017 9600	TR 2SC3330-T-AC	1	C146	403 001 2309	CERAMIC 0.01U N 16V	1
Q115	405 021 0204	TR 2SD1012-F-SPA-AC	1	C147	403 022 5907	CERAMIC 33P J 50V	1
or	405 021 0600	TR 2SD1012-G-SPA-AC	1	C148	403 022 5907	CERAMIC 33P J 50V	1
Q116	405 021 0204	TR 2SD1012-F-SPA-AC	1	C149	403 071 6207	CERAMIC 220P K 50V	1
or	405 021 0600	TR 2SD1012-G-SPA-AC	1	C151	403 056 9704	POLYESTER 0.01U J 50V	1
Q117	405 003 7603	TR 2SA1345-AC	1	C152	403 059 5208	POLYESTER 0.022U J 50V	1
D101	407 000 4708	VARACTOR DI SVC321C-2	1	C153	403 067 5603	MT-COMPO 0.1U J 50V	1
or	407 000 4807	VARACTOR DI SVC321D-2	1	C154	403 067 5603	MT-COMPO 0.1U J 50V	1
D102	407 000 4708	VARACTOR DI SVC321C-2	1	C155	403 056 9704	POLYESTER 0.01U J 50V	1
or	407 000 4807	VARACTOR DI SVC321D-2	1	C156	403 056 9704	POLYESTER 0.01U J 50V	1
D103	407 050 4802	ZENER DIODE GZA5.1Y-BT	1	C157	403 056 9704	POLYESTER 0.01U J 50V	1
D104	407 125 8209	DIODE HSS271	1	C158	403 074 6303	CERAMIC 560P K 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C159	403 030 6309	CERAMIC 68P J 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C160	403 058 7609	POLYESTER 1800P J 50V	1
D105	407 125 8209	DIODE HSS271	1	C161	403 026 2209	CERAMIC 47P J 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C162	403 074 6303	CERAMIC 560P K 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C163	403 030 6309	CERAMIC 68P J 50V	1
D106	407 125 8209	DIODE HSS271	1	C164	403 058 7609	POLYESTER 1800P J 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C165	403 028 3402	CERAMIC 56P J 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C166	403 067 5603	MT-COMPO 0.1U J 50V	1
D107	407 125 8209	DIODE HSS271	1	C167	403 050 7805	ELECT 3.3U M 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C168	403 067 5603	MT-COMPO 0.1U J 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C169	403 068 9402	CERAMIC 100P K 50V	1
D108	407 125 8209	DIODE HSS271	1	C170	403 068 9402	CERAMIC 100P K 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C171	403 138 5600	POLYESTER 5600P J 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C172	403 138 5600	POLYESTER 5600P J 50V	1
D109	407 125 8209	DIODE HSS271	1	C173	403 051 2106	ELECT 4.7U M 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C174	403 051 2106	ELECT 4.7U M 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C179	403 060 5402	POLYESTER 3300P J 50V	1
D110	407 125 8209	DIODE HSS271	1	C180	403 060 5402	POLYESTER 3300P J 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	C181	403 049 5508	ELECT 10U M 50V	1
or	407 008 0405	DIODE GMB01-BT	1	C190	403 060 0704	POLYESTER 2700P K 50V	1
D111	407 125 8209	DIODE HSS271	1	C191	403 069 0705	CERAMIC 1000P K 50V	1
or	407 012 4208	DIODE 1SS131-T-77	1	R101	402 023 4209	CARBON 1M JA 1/2W	1
or	407 008 0405	DIODE GMB01-BT	1	R102	401 027 5908	CARBON 68K JA 1/6W	1
C101	403 043 1100	ELECT 220U M 16V	1	R103	401 026 7408	CARBON 39K JA 1/6W	1
C102	403 001 1906	CERAMIC 0.01U M 16V	1	R104	402 037 7005	FUSIBLE RES 47 JA 1/4W	1
C103	403 068 9402	CERAMIC 100P K 50V	1	R105	401 020 0801	CARBON 470 JA 1/4W	1
C104	403 032 3504	CERAMIC 8P K 50V	1	R106	401 024 7004	CARBON 1K JA 1/6W	1
C105	403 074 2701	CERAMIC 0.047U Z 50V	1	R107	401 024 7707	CARBON 100K JA 1/6W	1
C106	403 068 9402	CERAMIC 100P K 50V	1	R108	401 027 2600	CARBON 5.6K JA 1/6W	1
C107	403 074 2701	CERAMIC 0.047U Z 50V	1	R109	401 024 7004	CARBON 1K JA 1/6W	1
C108	403 074 2701	CERAMIC 0.047U Z 50V	1	R110	401 024 8001	CARBON 1M JA 1/6W	1
C109	403 044 0300	ELECT 47U M 16V	1	R111	401 026 6609	CARBON 390 JA 1/6W	1
C110	403 049 1708	ELECT 1U M 50V	1	R112	401 026 1000	CARBON 2.7K JA 1/6W	1
C111	403 001 2309	CERAMIC 0.01U N 16V	1	R113	401 012 4503	CARBON 100 JA 1/4W	1
C112	403 001 2309	CERAMIC 0.01U N 16V	1	R114	401 024 7004	CARBON 1K JA 1/6W	1
C113	403 017 7404	CERAMIC 22P J 50V	1	R115	401 024 7400	CARBON 10K JA 1/6W	1
C114	403 088 4104	STYRENE 430P J 50V	1	R116	401 025 4200	CARBON 1.8K JA 1/6W	1
C115	403 039 7901	ELECT 100U M 10V	1	R117	401 012 4107	CARBON 100 JA 1/4W	1
C116	403 001 2309	CERAMIC 0.01U N 16V	1	R118	401 026 3905	CARBON 330 JA 1/6W	1
C117	403 042 0401	ELECT 10U M 16V	1	R119	401 026 3905	CARBON 330 JA 1/6W	1

P.C. BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty		
R120	401 023 0709	CARBON	82 JA 1/4W	1	R200	401 024 7707	CARBON	100K JA 1/6W	1
R121	401 026 1307	CARBON	27K JA 1/6W	1	R201	401 025 7805	CARBON	2.2K JA 1/6W	1
R122	401 025 4606	CARBON	18K JA 1/6W	1	R202	401 025 7805	CARBON	2.2K JA 1/6W	1
R123	401 012 8105	CARBON	100K JA 1/4W	1	R207	401 026 9907	CARBON	4.7K JA 1/6W	1
R124	401 024 6700	CARBON	100 JA 1/6W	1	R208	401 020 2003	CARBON	4.7K JA 1/4W	1
R125	401 026 9907	CARBON	4.7K JA 1/6W	1	R209	401 012 7009	CARBON	10K JA 1/4W	1
R126	401 025 8208	CARBON	22K JA 1/6W	1	R210	401 025 8208	CARBON	22K JA 1/6W	1
R127	401 024 7400	CARBON	10K JA 1/6W	1	R211	401 025 7805	CARBON	2.2K JA 1/6W	1
R128	401 026 4308	CARBON	3.3K JA 1/6W	1	R215	401 024 6700	CARBON	100 JA 1/6W	1
R129	402 037 7005	FUSIBLE RES	47 JA 1/4W	1					
R130	401 025 1902	CARBON	15K JA 1/6W	1	ASSY.PCB.INPUT				
R131	401 016 4806	CARBON	22K JA 1/4W	1	620 208 3582	Assy.PCB.Input			1
R132	401 016 3809	CARBON	2.2K JA 1/4W	1	620 208 3148	Jack,Socket,RCA,4P,Gold			4
R133	402 037 7005	FUSIBLE RES	47 JA 1/4W	1	620 208 3162	Jack,Socket,RCA,6P,Gold			1
R134	401 026 4308	CARBON	3.3K JA 1/6W	1	620 208 3193	Jack,Socket,RCA,2P,Gold			2
R136	401 026 9907	CARBON	4.7K JA 1/6W	1	JH301	620 202 9146	Socket,Holder,11P		1
R137	401 016 4806	CARBON	22K JA 1/4W	1	JH302	620 202 9146	Socket,Holder,11P		1
R138	401 025 8208	CARBON	22K JA 1/6W	1	W301	620 208 7108	Wire,Jumper,11P,L = 160		1
R139	401 025 4903	CARBON	180K JA 1/6W	1	W302	620 208 7108	Wire,Jumper,11P,L = 160		1
R140	401 025 4903	CARBON	180K JA 1/6W	1	IC302	409 018 5104	IC LA6458SS		1
R141	401 025 7805	CARBON	2.2K JA 1/6W	1	IC303	409 018 5104	IC LA6458SS		1
R142	401 025 7805	CARBON	2.2K JA 1/6W	1	IC304	409 018 5104	IC LA6458SS		1
R143	401 026 9907	CARBON	4.7K JA 1/6W	1	IC305	409 018 5104	IC LA6458SS		1
R144	401 026 9907	CARBON	4.7K JA 1/6W	1	IC306	409 166 5308	IC TC9215P		1
R145	401 013 4205	CARBON	120 JA 1/4W	1	IC307	409 109 5105	IC LC7821		1
R148	401 024 7004	CARBON	1K JA 1/6W	1	IC308	409 109 5303	IC LC7823		1
R149	401 027 1801	CARBON	1K JA 1/6W	1	IC309	409 018 5104	IC LA6458SS		1
R150	401 027 1801	CARBON	51K JA 1/6W	1	IC401	409 018 7603	IC LA7016		1
R151	401 027 5908	CARBON	51K JA 1/6W	1	Q301	405 018 2501	TR 2SC3399-AC		1
R152	401 027 5908	CARBON	68K JA 1/6W	1	Q302	405 018 2501	TR 2SC3399-AC		1
R153	401 024 7400	CARBON	68K JA 1/6W	1	Q303	405 003 7603	TR 2SA1345-AC		1
R154	401 024 7400	CARBON	10K JA 1/6W	1	Q304	405 003 7603	TR 2SA1345-AC		1
R155	401 012 9904	CARBON	10M JA 1/4W	1	Q401	405 017 9501	TR 2SC3330-S-AC		1
R156	401 012 9904	CARBON	10M JA 1/4W	1	or	405 017 9600	TR 2SC3330-T-AC		1
R157	401 024 8605	CARBON	11K JA 1/6W	1	Q402	405 017 9501	TR 2SC3330-S-AC		1
R158	401 025 4903	CARBON	180K JA 1/6W	1	or	405 017 9600	TR 2SC3330-T-AC		1
R159	401 025 1902	CARBON	15K JA 1/6W	1	Q403	405 017 9501	TR 2SC3330-S-AC		1
R160	401 025 2305	CARBON	150K JA 1/6W	1	Q404	405 017 9501	TR 2SC3330-S-AC		1
R161	401 026 4605	CARBON	33K JA 1/6W	1	Q405	405 038 4509	TR 2SA1246-S-AA		1
R162	401 026 9907	CARBON	4.7K JA 1/6W	1	or	405 003 1205	TR 2SA1246-T-AA		1
R163	401 026 9907	CARBON	4.7K JA 1/6W	1	Q406	405 017 9501	TR 2SC3330-S-AC		1
R164	401 024 8001	CARBON	1M JA 1/6W	1	or	405 017 9600	TR 2SC3330-T-AC		1
R165	401 024 8001	CARBON	1M JA 1/6W	1	Q407	405 018 2501	TR 2SC3399-AC		1
R166	401 024 7400	CARBON	10K JA 1/6W	1	Q408	405 019 3903	TR 2SC536-F-SPA-AC		1
R167	401 026 3202	CARBON	30K JA 1/6W	1	or	405 019 3903	TR 2SC536-G-SPA-AC		1
R168	401 027 1603	CARBON	5.1K JA 1/6W	1	D301	407 125 8209	DIODE HSS271		1
R169	401 027 1801	CARBON	51K JA 1/6W	1	or	407 012 4208	DIODE 1SS131-T-77		1
R170	401 025 1605	CARBON	5.1K JA 1/6W	1	or	407 008 0405	DIODE GMB01-BT		1
R171	401 026 9006	CARBON	43K JA 1/6W	1	D302	407 125 8209	DIODE HSS271		1
R172	401 027 1603	CARBON	5.1K JA 1/6W	1	or	407 012 4208	DIODE 1SS131-T-77		1
R175	401 026 1307	CARBON	1.5K JA 1/6W	1	or	407 008 0405	DIODE GMB01-BT		1
R176	401 025 0608	CARBON	27K JA 1/6W	1	D401	407 050 3409	ZENER DIODE GZA4.3Y-BT		1
R177	401 024 7400	CARBON	10K JA 1/6W	1	C313	403 051 2106	ELECT	4.7U M 50V	1
R178	401 025 3500	CARBON	160K JA 1/6W	1	C314	403 051 2106	ELECT	4.7U M 50V	1
R179	401 027 2006	CARBON	510K JA 1/6W	1	C317	403 051 2106	ELECT	4.7U M 50V	1
R180	401 025 8703	CARBON	220K JA 1/6W	1	C318	403 051 2106	ELECT	4.7U M 50V	1
R181	401 026 9907	CARBON	4.7K JA 1/6W	1	C321	403 051 2106	ELECT	4.7U M 50V	1
R182	401 026 4902	CARBON	330K JA 1/6W	1	C322	403 051 2106	ELECT	4.7U M 50V	1
R183	401 026 7606	CARBON	390K JA 1/6W	1	C325	403 051 2106	ELECT	4.7U M 50V	1
R184	401 026 3202	CARBON	30K JA 1/6W	1	C326	403 051 2106	ELECT	4.7U M 50V	1
R185	401 024 7004	CARBON	1K JA 1/6W	1	C329	403 051 2106	ELECT	4.7U M 50V	1
R186	401 027 2006	CARBON	510K JA 1/6W	1	C330	403 051 2106	ELECT	4.7U M 50V	1
R187	401 025 9007	CARBON	2.2M JA 1/6W	1	C333	403 051 2106	ELECT	4.7U M 50V	1
R188	401 027 0705	CARBON	4.7M JA 1/6W	1	C334	403 051 2106	ELECT	4.7U M 50V	1
R189	401 027 4000	CARBON	620 JA 1/6W	1	C335	403 051 2106	ELECT	4.7U M 50V	1
R190	401 024 9701	CARBON	12K JA 1/6W	1	C336	403 051 2106	ELECT	4.7U M 50V	1
R191	401 025 6709	CARBON	200K JA 1/6W	1	C339	403 051 2106	ELECT	4.7U M 50V	1
R192	401 025 6709	CARBON	200K JA 1/6W	1	C340	403 051 2106	ELECT	4.7U M 50V	1
R193	401 026 4308	CARBON	3.3K JA 1/6W	1	C341	403 051 2106	ELECT	4.7U M 50V	1
R194	401 026 4308	CARBON	3.3K JA 1/6W	1	C342	403 051 2106	ELECT	4.7U M 50V	1
R195	401 027 4307	CARBON	6.2K JA 1/6W	1	C343	403 068 9402	CERAMIC	100P K 50V	1
R196	401 027 4307	CARBON	6.2K JA 1/6W	1	C344	403 068 9402	CERAMIC	100P K 50V	1
R197	401 027 5908	CARBON	68K JA 1/6W	1	C345	403 049 5508	ELECT	10U M 50V	1
R198	401 027 5908	CARBON	68K JA 1/6W	1	C346	403 049 5508	ELECT	10U M 50V	1
R199	401 024 7707	CARBON	100K JA 1/6W	1	C347	403 045 0606	ELECT	100U M 25V	1
					C348	403 045 0606	ELECT	100U M 25V	1
					C349	403 042 3600	ELECT	100U M 16V	1
					C350	403 042 3600	ELECT	100U M 16V	1
					C351	403 045 0606	ELECT	100U M 25V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty	
C352	403 045 0606	ELECT	100U M 25V	1	R379	401 024 9701	CARBON 12K JA 1/6W	1
C353	403 049 1708	ELECT	1U M 50V	1	R380	401 024 9701	CARBON 12K JA 1/6W	1
C354	403 049 1708	ELECT	1U M 50V	1	R381	401 024 7707	CARBON 100K JA 1/6W	1
C355	403 071 6207	CERAMIC	220P K 50V	1	R382	401 024 7707	CARBON 100K JA 1/6W	1
C401	403 039 7901	ELECT	100U M 10V	1	R383	401 020 0801	CARBON 470 JA 1/4W	1
C402	403 039 7901	ELECT	100U M 10V	1	R384	401 020 0801	CARBON 470 JA 1/4W	1
C403	403 044 0300	ELECT	47U M 16V	1	R385	401 015 1608	CARBON 180 JA 1/4W	1
C404	403 041 5704	ELECT	470U M 10V	1	R386	401 015 1608	CARBON 180 JA 1/4W	1
C405	403 041 5704	ELECT	47U M 16V	1	R387	402 037 6909	FUSIBLE RES 82 JA 1/4W	1
C406	403 044 0300	ELECT	47U M 16V	1	R388	402 037 6909	FUSIBLE RES 82 JA 1/4W	1
C407	403 042 3600	ELECT	100U M 16V	1	R389	401 027 0309	CARBON 47K JA 1/6W	1
C408	403 074 2701	CERAMIC	0.047U Z 50V	1	R390	401 027 0309	CARBON 47K JA 1/6W	1
C409	403 069 8404	CERAMIC	0.01U Z 50V	1	R391	401 024 7400	CARBON 10K JA 1/6W	1
R313	401 020 0801	CARBON	470 JA 1/4W	1	R392	401 024 7400	CARBON 10K JA 1/6W	1
R314	401 020 0801	CARBON	470 JA 1/4W	1	R393	401 015 1608	CARBON 180 JA 1/4W	1
R315	401 026 1604	CARBON	270K JA 1/6W	1	R394	401 015 1608	CARBON 180 JA 1/4W	1
R316	401 026 1604	CARBON	270K JA 1/6W	1	R401	401 027 6608	CARBON 75 JA 1/6W	1
R317	401 012 5708	CARBON	1K JA 1/4W	1	R402	401 027 6608	CARBON 75 JA 1/6W	1
R318	401 012 5708	CARBON	1K JA 1/4W	1	R403	401 018 2800	CARBON 330 JA 1/4W	1
R319	401 026 1604	CARBON	270K JA 1/6W	1	R404	401 026 9600	CARBON 470 JA 1/6W	1
R320	401 026 1604	CARBON	270K JA 1/6W	1	R405	401 026 1000	CARBON 2.7K JA 1/6W	1
R321	401 012 5708	CARBON	1K JA 1/4W	1	R406	401 026 4308	CARBON 3.3K JA 1/6W	1
R322	401 012 5708	CARBON	1K JA 1/4W	1	R407	401 026 1000	CARBON 2.7K JA 1/6W	1
R323	401 026 1604	CARBON	270K JA 1/6W	1	R408	401 026 0409	CARBON 27 JA 1/6W	1
R324	401 026 1604	CARBON	270K JA 1/6W	1	R409	401 019 1000	CARBON 390 JA 1/4W	1
R325	401 024 7004	CARBON	1K JA 1/6W	1	R410	401 026 0409	CARBON 27 JA 1/6W	1
R326	401 024 7004	CARBON	1K JA 1/6W	1	R411	401 025 7805	CARBON 2.2K JA 1/6W	1
R327	401 025 8703	CARBON	220K JA 1/6W	1	R412	401 019 1000	CARBON 390 JA 1/4W	1
R328	401 025 8703	CARBON	220K JA 1/6W	1	R413	401 025 8208	CARBON 22K JA 1/6W	1
R329	401 024 7004	CARBON	1K JA 1/6W	1	R414	401 025 8208	CARBON 22K JA 1/6W	1
R330	401 024 7004	CARBON	1K JA 1/6W	1	R415	401 027 0309	CARBON 47K JA 1/6W	1
R331	401 026 1604	CARBON	270K JA 1/6W	1	R416	401 027 0309	CARBON 47K JA 1/6W	1
R332	401 026 1604	CARBON	270K JA 1/6W	1	R417	401 027 6608	CARBON 75 JA 1/6W	1
R333	401 024 7004	CARBON	1K JA 1/6W	1	R418	401 027 6608	CARBON 75 JA 1/6W	1
R334	401 024 7004	CARBON	1K JA 1/6W	1	R419	402 037 7005	FUSIBLE RES 47 JA 1/4W	1
R335	401 024 7707	CARBON	100K JA 1/6W	1	R420	401 012 7009	CARBON 10K JA 1/4W	1
R336	401 024 7707	CARBON	100K JA 1/6W	1	R421	402 037 7005	FUSIBLE RES 47 JA 1/4W	1
R337	401 012 5708	CARBON	1K JA 1/4W	1	ASSY,PCB,PHONO EQ.			
R338	401 012 5708	CARBON	1K JA 1/4W	1	620 208 3599	Assy,PCB,Phono EQ.	1	
R339	401 024 7707	CARBON	100K JA 1/6W	1	620 208 3117	Jack,Socket,RCA,2P,Gold	1	
R340	401 024 7707	CARBON	100K JA 1/6W	1	IC301	409 018 5203	IC LA6462D	1
R341	401 024 7004	CARBON	1K JA 1/6W	1	C300	403 001 2309	CERAMIC 0.01U N 16V	1
R342	401 024 7004	CARBON	1K JA 1/6W	1	C301	403 051 2106	ELECT 4.7U M 50V	1
R343	401 024 7707	CARBON	100K JA 1/6W	1	C302	403 051 2106	ELECT 4.7U M 50V	1
R344	401 024 7707	CARBON	100K JA 1/6W	1	C303	403 068 9402	CERAMIC 100P K 50V	1
R345	401 012 5708	CARBON	1K JA 1/4W	1	C304	403 068 9402	CERAMIC 100P K 50V	1
R346	401 024 7004	CARBON	1K JA 1/6W	1	C305	403 044 0300	ELECT 47U M 16V	1
R347	401 024 7707	CARBON	100K JA 1/6W	1	C306	403 044 0300	ELECT 47U M 16V	1
R348	401 024 7707	CARBON	100K JA 1/6W	1	C307	403 059 0104	POLYESTER 0.018U K 50V	1
R349	401 024 7004	CARBON	1K JA 1/6W	1	C308	403 059 0104	POLYESTER 0.018U K 50V	1
R350	401 024 7004	CARBON	1K JA 1/6W	1	C309	403 061 8303	POLYESTER 4700P K 50V	1
R351	401 024 7707	CARBON	100K JA 1/6W	1	C310	403 061 8303	POLYESTER 4700P K 50V	1
R352	401 024 7707	CARBON	100K JA 1/6W	1	C311	403 051 2106	ELECT 4.7U M 50V	1
R353	401 024 7707	CARBON	100K JA 1/6W	1	C312	403 051 2106	ELECT 4.7U M 50V	1
R354	401 024 7707	CARBON	100K JA 1/6W	1	R301	401 024 7004	CARBON 1K JA 1/6W	1
R355	401 026 9600	CARBON	470 JA 1/6W	1	R302	401 024 7004	CARBON 1K JA 1/6W	1
R356	401 026 9600	CARBON	470 JA 1/6W	1	R303	401 024 7707	CARBON 100K JA 1/6W	1
R357	401 024 7707	CARBON	100K JA 1/6W	1	R304	401 024 7707	CARBON 100K JA 1/6W	1
R358	401 024 7707	CARBON	100K JA 1/6W	1	R305	401 026 3905	CARBON 330 JA 1/6W	1
R359	401 024 7707	CARBON	100K JA 1/6W	1	R306	401 026 3905	CARBON 330 JA 1/6W	1
R360	401 024 7707	CARBON	100K JA 1/6W	1	R307	401 025 8703	CARBON 220K JA 1/6W	1
R361	401 026 9600	CARBON	470 JA 1/6W	1	R308	401 025 8703	CARBON 220K JA 1/6W	1
R362	401 026 9600	CARBON	470 JA 1/6W	1	R309	401 025 1902	CARBON 15K JA 1/6W	1
R363	401 026 1604	CARBON	270K JA 1/6W	1	R310	401 025 1902	CARBON 15K JA 1/6W	1
R364	401 026 1604	CARBON	270K JA 1/6W	1	R311	401 024 7707	CARBON 100K JA 1/6W	1
R365	401 024 7707	CARBON	100K JA 1/6W	1	R312	401 024 7707	CARBON 100K JA 1/6W	1
R366	401 024 7707	CARBON	100K JA 1/6W	1	R395	401 024 7707	CARBON 100K JA 1/6W	1
R367	401 026 9600	CARBON	470 JA 1/6W	1	R396	401 024 7707	CARBON 100K JA 1/6W	1
R368	401 026 9600	CARBON	470 JA 1/6W	1	ASSY,PCB,POWER/SP SWITCH			
R369	401 026 1604	CARBON	270K JA 1/6W	1	620 208 3605	Assy,PCB,Power/SP Switch	1	
R370	401 026 1604	CARBON	270K JA 1/6W	1	620 202 9115	Socket,Holder,8P	1	
R371	401 024 7707	CARBON	100K JA 1/6W	1	620 208 3315	Jack,Headphone,3P	1	
R372	401 024 7707	CARBON	100K JA 1/6W	1	SW901	620 187 8875	Push Switch (POWER)	1
R373	401 020 0801	CARBON	470 JA 1/4W	1	SW902	620 208 3308	Switch,Push,2 KEY,2-2, (SP-A/B)	1
R374	401 026 9600	CARBON	470 JA 1/6W	1	W921	620 209 6711	Wire,Jumper,8P,L=120	1
R375	401 026 1604	CARBON	270K JA 1/6W	1	C961	403 069 8404	CERAMIC 0.01U Z 50V	1
R376	401 026 1604	CARBON	270K JA 1/6W	1				
R377	401 025 8208	CARBON	22K JA 1/6W	1				
R378	401 025 8208	CARBON	22K JA 1/6W	1				

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
ASSY,PCB,MASTER VOLUME							
	620 208 3612	Assy,PCB,Master Volume	1	Q604	405 019 2807	TR 2SC536-F-SPA-AC	1
JH706	620 202 9115	Socket,Holder,8P	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
VR701	620 199 4520	VR,Rotary,2X100KA,Motor	1	Q605	405 019 2807	TR 2SC536-F-SPA-AC	1
W706	620 208 7139	Wire,Jumper,8P,L = 100	1	or	405 019 3903	TR 2SC536-G-SPA-AC	1
				Q606	405 018 2501	TR 2SC3399-AC	1
				Q607	405 018 2501	TR 2SC3399-AC	1
				Q608	405 018 2501	TR 2SC3399-AC	1
				Q609	405 018 2501	TR 2SC3399-AC	1
				Q610	405 037 1103	TR 2SC4067-AC	1
				Q611	405 018 2501	TR 2SC3399-AC	1
				Q612	405 004 4601	TR 2SA608-F-SPA-AC	1
				or	405 004 5103	TR 2SA608-G-SPA-AC	1
				Q613	405 035 6704	TR 2SA1511-AC	1
				D601	407 069 1205	DIODE DS441-BT	1
				D602	407 005 3805	DIODE DS442-BT	1
				D603	407 125 8209	DIODE HSS271	1
				or	407 012 4208	DIODE 1SS131-T-77	1
				or	407 008 0405	DIODE GMB01-BT	1
				D604	407 125 8209	DIODE HSS271	1
				or	407 012 4208	DIODE 1SS131-T-77	1
				or	407 008 0405	DIODE GMB01-BT	1
				D605	407 125 8209	DIODE HSS271	1
				or	407 012 4208	DIODE 1SS131-T-77	1
				or	407 008 0405	DIODE GMB01-BT	1
				D606	407 125 8209	DIODE HSS271	1
				or	407 012 4208	DIODE 1SS131-T-77	1
				or	407 008 0405	DIODE GMB01-BT	1
				D607	407 125 8209	DIODE HSS271	1
				or	407 012 4208	DIODE 1SS131-T-77	1
				or	407 008 0405	DIODE GMB01-BT	1
				D608	407 125 8209	DIODE HSS271	1
				or	407 012 4208	DIODE 1SS131-T-77	1
				or	407 008 0405	DIODE GMB01-BT	1
				D609	407 125 8209	DIODE HSS271	1
				or	407 012 4208	DIODE 1SS131-T-77	1
				or	407 008 0405	DIODE GMB01-BT	1
				D612	407 005 3805	DIODE DS442-BT	1
				D613	407 125 8209	DIODE HSS271	1
				or	407 012 4208	DIODE 1SS131-T-77	1
				or	407 008 0405	DIODE GMB01-BT	1
				D614	407 005 3805	DIODE DS442-BT	1
				D615	407 125 8209	DIODE HSS271	1
				or	407 012 4208	DIODE 1SS131-T-77	1
				or	407 008 0405	DIODE GMB01-BT	1
				D616	407 050 6202	ZENER DIODE GZA6.2Y-BT	1
				or	407 050 6301	ZENER DIODE GZA6.2Z-BT	1
				C501	403 049 5706	ELECT 10U M 50V	1
				C502	403 049 5706	ELECT 10U M 50V	1
				C505	403 026 2209	CERAMIC 47P J 50V	1
				C506	403 026 2209	CERAMIC 47P J 50V	1
				C507	403 051 2304	ELECT 4.7U M 50V	1
				C508	403 051 2304	ELECT 4.7U M 50V	1
				C509	403 164 4608	ELECT 100U M 25V	1
				C510	403 164 4608	ELECT 100U M 25V	1
				C511	403 067 8208	MT-COMPO 0.068U J 50V	1
				C512	403 067 8208	MT-COMPO 0.068U J 50V	1
				C513	403 063 5904	POLYESTER 8200P K 50V	1
				C514	403 063 5904	POLYESTER 8200P K 50V	1
				C515	403 061 8303	POLYESTER 4700P K 50V	1
				C516	403 061 8303	POLYESTER 4700P K 50V	1
				C517	403 062 5301	POLYESTER 5600P K 50V	1
				C518	403 062 5301	POLYESTER 5600P K 50V	1
				C519	403 074 9205	CERAMIC 680P K 50V	1
				C520	403 074 9205	CERAMIC 680P K 50V	1
				C521	403 050 1605	ELECT 2.2U M 50V	1
				C522	403 050 1605	ELECT 2.2U M 50V	1
				C523	403 048 7909	ELECT 0.47U M 50V	1
				C524	403 048 7909	ELECT 0.47U M 50V	1
				C525	403 067 8406	MT-COMPO 0.082U J 50V	1
				C526	403 067 8406	MT-COMPO 0.082U J 50V	1
				C527	403 063 5904	POLYESTER 8200P K 50V	1
				C528	403 063 5904	POLYESTER 8200P K 50V	1
				C529	403 061 8303	POLYESTER 4700P K 50V	1
				C530	403 061 8303	POLYESTER 4700P K 50V	1
				C532	403 069 8404	CERAMIC 0.01U Z 50V	1
				C533	403 041 3700	ELECT 47U M 10V	1
				C534	403 041 3700	ELECT 47U M 10V	1
				C601	404 039 4402	ELECT 100U M 10V	1
				C602	403 069 8404	CERAMIC 0.01U Z 50V	1

P.C.BOARD PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty		
C603	403 049 5508	ELECT	10U M 50V	1	R615	401 025 1605	CARBON 1.5K JA 1/6W	1	
C604	403 038 2402	ELECT	100U M 6.3V	1	R617	401 024 7400	CARBON 10K JA 1/6W	1	
C605	403 022 5907	CERAMIC	33P J 50V	1	R618	401 025 1605	CARBON 1.5K JA 1/6W	1	
C606	403 022 5907	CERAMIC	33P J 50V	1	R619	401 024 7004	CARBON 1K JA 1/6W	1	
C607	403 069 8404	CERAMIC	0.01U Z 50V	1	R620	401 024 7004	CARBON 1K JA 1/6W	1	
C608	403 069 8404	CERAMIC	0.01U Z 50V	1	R621	401 024 7004	CARBON 1K JA 1/6W	1	
C609	403 067 5603	MT-COMPO	0.1U J 50V	1	R622	401 024 7004	CARBON 1K JA 1/6W	1	
C610	403 049 1708	ELECT	1U M 50V	1	R623	401 025 7805	CARBON 2.2K JA 1/6W	1	
C611	403 049 5508	ELECT	10U M 50V	1	R624	401 024 7400	CARBON 10K JA 1/6W	1	
C612	403 069 8404	CERAMIC	0.01U Z 50V	1	R625	401 024 7400	CARBON 10K JA 1/6W	1	
C613	404 039 4303	ELECT	2200U M 10V	1	R626	401 024 7707	CARBON 100K JA 1/6W	1	
C614	403 038 7209	ELECT	220U M 6.3V	1	R627	401 027 0507	CARBON 470K JA 1/6W	1	
C615	403 048 7701	ELECT	0.47U M 50V	1	R628	401 026 9600	CARBON 470 JA 1/6W	1	
R501	401 024 7707	CARBON	100K JA 1/6W	1	R629	401 025 7805	CARBON 2.2K JA 1/6W	1	
R502	401 024 7707	CARBON	100K JA 1/6W	1	R630	401 025 0608	CARBON 1.3K JA 1/6W	1	
R503	401 026 9907	CARBON	4.7K JA 1/6W	1	R631	401 027 5908	CARBON 68K JA 1/6W	1	
R504	401 026 9907	CARBON	4.7K JA 1/6W	1	R632	401 027 5908	CARBON 68K JA 1/6W	1	
R505	401 026 9907	CARBON	4.7K JA 1/6W	1	R633	401 016 2604	CARBON 220 JA 1/4W	1	
R506	401 026 9907	CARBON	4.7K JA 1/6W	1	R634	401 012 3407	CARBON 10 JA 1/4W	1	
R507	401 024 7707	CARBON	100K JA 1/6W	1	R635	401 019 9600	CARBON 47 JA 1/4W	1	
R508	401 024 7707	CARBON	100K JA 1/6W	1	R636	401 019 9600	CARBON 47 JA 1/4W	1	
R509	402 037 6909	FUSIBLE RES	82 JA 1/4W	1	R649	401 024 7004	CARBON 1K JA 1/6W	1	
R510	402 037 6909	FUSIBLE RES	82 JA 1/4W	1	R650	401 024 7004	CARBON 1K JA 1/6W	1	
R511	401 026 6609	CARBON	390 JA 1/6W	1	R651	401 024 7004	CARBON 1K JA 1/6W	1	
R512	401 026 6609	CARBON	390 JA 1/6W	1					
R513	401 026 6609	CARBON	390 JA 1/6W	1	ASSY,PCB,DISPLAY/SW				
R514	401 026 6609	CARBON	390 JA 1/6W	1	620 208 3667	Assy,PCB,Display/SW	1		
R515	401 026 6609	CARBON	390 JA 1/6W	1	411 021 0809	SCR S-TPG BIN 2X6	2		
R516	401 026 6609	CARBON	390 JA 1/6W	1	620 207 0773	Mount-E,FL	1		
R517	401 026 6609	CARBON	390 JA 1/6W	1	620 208 9430	Shield,Cover Tact	1		
R518	401 026 6609	CARBON	390 JA 1/6W	1	620 208 9447	Shield,Plate	1		
R519	401 026 6609	CARBON	390 JA 1/6W	1	620 207 0759	Spacer,LED-A	1		
R520	401 026 6609	CARBON	390 JA 1/6W	1	620 207 0766	Spacer,LED-B	1		
R521	401 027 8602	CARBON	8.2K JA 1/6W	1	620 205 3509	Fluorescent Tube	1		
R522	401 027 8602	CARBON	8.2K JA 1/6W	1	620 189 4424	Adhesive Sheet	2		
R523	401 027 8602	CARBON	8.2K JA 1/6W	1	CN511	620 205 5435	Connector-S,6P	1	
R524	401 027 8602	CARBON	8.2K JA 1/6W	1	CN512	620 200 1548	Connector-S,9P	1	
R525	401 027 8602	CARBON	8.2K JA 1/6W	1	CN513	620 200 1531	Connector-S,7P	1	
R526	401 027 8602	CARBON	8.2K JA 1/6W	1	CN514	620 200 1524	Connector-S,52084,5P	1	
R527	401 027 8602	CARBON	8.2K JA 1/6W	1	CN515	620 200 1548	Connector-S,9P	1	
R528	401 027 8602	CARBON	8.2K JA 1/6W	1	CN516	620 200 1531	Connector-S,7P	1	
R529	401 027 8602	CARBON	8.2K JA 1/6W	1	CN517	620 200 1548	Connector-S,9P	1	
R530	401 027 8602	CARBON	8.2K JA 1/6W	1	RX501	620 200 0909	Converter,Remote,DET	1	
R531	401 025 2305	CARBON	150K JA 1/6W	1	SW601	620 016 7796	Tact Switch	1	
R532	401 025 2305	CARBON	150K JA 1/6W	1	SW602	620 210 0241	Switch,Tact,Taping	1	
R533	401 024 7707	CARBON	100K JA 1/6W	1	SW603	620 210 0241	Switch,Tact,Taping	1	
R534	401 024 7707	CARBON	100K JA 1/6W	1	SW606	620 016 7796	Tact Switch	1	
R535	401 026 7408	CARBON	39K JA 1/6W	1	SW607	620 210 0241	Switch,Tact,Taping	1	
R536	401 026 7408	CARBON	39K JA 1/6W	1	SW608	620 016 7796	Tact Switch	1	
R537	401 026 4605	CARBON	33K JA 1/6W	1	SW611	620 210 0241	Switch,Tact,Taping	1	
R538	401 026 4605	CARBON	33K JA 1/6W	1	SW612	620 016 7796	Tact Switch	1	
R539	401 025 8208	CARBON	22K JA 1/6W	1	SW613	620 016 7796	Tact Switch	1	
R540	401 025 8208	CARBON	22K JA 1/6W	1	SW614	620 210 0241	Switch,Tact,Taping	1	
R541	401 026 3905	CARBON	330 JA 1/6W	1	SW617	620 016 7796	Tact Switch	1	
R542	401 026 3905	CARBON	330 JA 1/6W	1	SW618	620 016 7796	Tact Switch	1	
R543	401 024 9305	CARBON	1.2K JA 1/6W	1	SW619	620 210 0241	Switch,Tact,Taping	1	
R544	401 024 9305	CARBON	1.2K JA 1/6W	1	SW620	620 210 0241	Switch,Tact,Taping	1	
R545	401 025 1605	CARBON	1.5K JA 1/6W	1	SW621	620 210 0241	Switch,Tact,Taping	1	
R546	401 025 1605	CARBON	1.5K JA 1/6W	1	SW622	620 210 0241	Switch,Tact,Taping	1	
R547	401 025 1605	CARBON	1.5K JA 1/6W	1	SW623	620 210 0241	Switch,Tact,Taping	1	
R548	401 025 1605	CARBON	1.5K JA 1/6W	1	SW624	620 210 0241	Switch,Tact,Taping	1	
R549	401 025 1605	CARBON	1.5K JA 1/6W	1	SW625	620 210 0241	Switch,Tact,Taping	1	
R550	401 025 1605	CARBON	1.5K JA 1/6W	1	SW626	620 210 0241	Switch,Tact,Taping	1	
R551	401 024 7004	CARBON	1K JA 1/6W	1	SW627	620 210 0241	Switch,Tact,Taping	1	
R552	401 024 7004	CARBON	1K JA 1/6W	1	SW628	620 210 0241	Switch,Tact,Taping	1	
R601	401 024 7004	CARBON	1K JA 1/6W	1	SW629	620 210 0241	Switch,Tact,Taping	1	
R602	401 024 7004	CARBON	1K JA 1/6W	1	VR501	620 196 2352	VR,Rotary 2X250KSW	1	
R603	401 024 7004	CARBON	1K JA 1/6W	1	VR502	620 196 2352	VR,Rotary 2X250KSW	1	
R604	401 024 7004	CARBON	1K JA 1/6W	1	VR503	620 196 2352	VR,Rotary 2X250KSW	1	
R605	401 024 7004	CARBON	1K JA 1/6W	1	VR504	620 196 2352	VR,Rotary 2X250KSW	1	
R606	401 024 7004	CARBON	1K JA 1/6W	1	VR505	620 196 2352	VR,Rotary 2X250KSW	1	
R607	401 024 7004	CARBON	1K JA 1/6W	1	Q614	405 003 7603	TR 2SA1345-AC	1	
R608	401 024 7707	CARBON	100K JA 1/6W	1	Q615	405 018 2501	TR 2SC3399-AC	1	
R609	401 024 7707	CARBON	100K JA 1/6W	1	D617	407 125 8209	DIODE HSS271	1	
R610	401 026 9907	CARBON	4.7K JA 1/6W	1	or	407 012 4208	DIODE 1SS131-T-77	1	
R611	401 026 9907	CARBON	4.7K JA 1/6W	1	or	407 008 0405	DIODE GMB01-BT	1	
R612	401 024 7004	CARBON	1K JA 1/6W	1	D618	407 125 8209	DIODE HSS271	1	
R613	401 024 7004	CARBON	1K JA 1/6W	1	or	407 012 4208	DIODE 1SS131-T-77	1	
R614	401 024 7004	CARBON	1K JA 1/6W	1	or	407 008 0405	DIODE GMB01-BT	1	

P.C.BOARD PARTS LIST (Continued)

Q'ty	Ref. No.	Part No.	Description	Q'ty
1	D619	407 125 8209	DIODE HSS271	1
1	or	407 012 4208	DIODE 1SS131-T-77	1
1	or	407 008 0405	DIODE GMB01-BT	1
1	D620	407 125 8209	DIODE HSS271	1
1	or	407 012 4208	DIODE 1SS131-T-77	1
1	or	407 008 0405	DIODE GMB01-BT	1
1	D621	407 125 8209	DIODE HSS271	1
1	or	407 012 4208	DIODE 1SS131-T-77	1
1	or	407 008 0405	DIODE GMB01-BT	1
1	D622	407 005 3805	DIODE DS442-BT	1
1	D623	407 005 3805	DIODE DS442-BT	1
1	D624	407 125 8209	DIODE HSS271	1
1	or	407 012 4208	DIODE 1SS131-T-77	1
1	or	407 008 0405	DIODE GMB01-BT	1
1	D625	407 125 8209	DIODE HSS271	1
1	or	407 012 4208	DIODE 1SS131-T-77	1
1	or	407 008 0405	DIODE GMB01-BT	1
1	D626	407 125 8209	DIODE HSS271	1
1	or	407 012 4208	DIODE 1SS131-T-77	1
1	or	407 008 0405	DIODE GMB01-BT	1
1	D627	407 125 8209	DIODE HSS271	1
1	or	407 012 4208	DIODE 1SS131-T-77	1
1	or	407 008 0405	DIODE GMB01-BT	1
1	D628	407 125 8209	DIODE HSS271	1
1	or	407 012 4208	DIODE 1SS131-T-77	1
1	or	407 008 0405	DIODE GMB01-BT	1
1	D629	407 125 8209	DIODE HSS271	1
2	or	407 012 4208	DIODE 1SS131-T-77	1
1	or	407 008 0405	DIODE GMB01-BT	1
1	D630	407 112 7307	LED SLB-55DU3F	1
1	D631	407 138 9903	LED SLC-22DU3F	1
1	D632	407 138 9903	LED SLC-22DU3F	1
1	D633	407 112 7307	LED SLB-55DU3F	1
1	C531	403 075 5107	CERAMIC 8200P K 50V	1
2	R637	401 024 7400	CARBON 10K JA 1/6W	1
1	R638	401 024 7400	CARBON 10K JA 1/6W	1
1	R639	401 024 7400	CARBON 10K JA 1/6W	1
1	R640	401 024 7400	CARBON 10K JA 1/6W	1
1	R641	401 016 2604	CARBON 220 JA 1/4W	1
1	R642	401 012 5708	CARBON 1K JA 1/4W	1
1	R643	401 012 5708	CARBON 1K JA 1/4W	1
1	R644	401 016 2604	CARBON 220 JA 1/4W	1
1	R645	401 027 9005	CARBON 82K JA 1/6W	1
1	R646	401 023 3700	CARBON 82K JA 1/4W	1
1	R647	401 027 9005	CARBON 82K JA 1/6W	1
1	R648	401 012 5708	CARBON 1K JA 1/4W	1

Ref. No.	Part No.	Description	Q'ty
ASSY,PCB,SP TERMINAL			
	620 208 3674	Assy,PCB,SP Terminal	
	620 205 5091	Socket,Holder,6P	
	620 208 3339	Terminal,8P,Speaker	
CN903	620 208 6804	Terminal,5280-6P	
W922	620 209 6704	Wire,6S Parallel,	
ASSY,PCB,FUSE (1)			
	620 208 5913	Assy,PCB,Fuse (1)	
	△ 423 019 3402	FUSE 125V 0.8A	
	△ 423 020 0407	FUSE 125V 5A	
	△ 423 007 9508	FUSE 125V 8A	
	620 207 9158	Fuse Holder,Taping	
	620 208 8198	Terminal,5279-3P	
	620 208 8204	Terminal,5279-4P	
ASSY,PCB,FUSE (2)			
	620 208 5920	Assy,PCB,Fuse (2)	
	△ 423 019 3303	FUSE 125V 0.63A	
	620 207 9158	Fuse Holder,Taping	
	620 208 8204	Terminal,5279-4P	

- NOTES:**
- Parts order must contain Model Number, Part Number and Description.
 - Ordering quantity of screws and resistors must be multiple of pcs.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol Δ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with Δ , use only the replacement parts designated, or part with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

IC & TRANSISTOR REFERENCE VOLTAGES TABLE

Tuner P.C.Board

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC101	LA1266	2.5V	2.5V	2.5V	0V	12.5V	12.4V	12.3V	0.1V	3.5V	2.4V	2.8V	3.3V	0V	1.5V	1.5V	0V	0V	2.5V	1.5V	0V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		4.0V	4.0V	4.0V	3.2V	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IC102	LA3401	3.2V	3.2V	3.2V	3.2V	6.2V	3.2V	3.2V	6.2V	3.1V	0V	0V	0V	5.8V	4.9V	0V	2.7V	2.7V	2.7V	2.7V	2.7V
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		3.4V	12.7V	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IC103	LM7001	1.6V	1.6V	0V	0V	0V	0V	0V	12.2V	0V	0V	2.8V	5.1V	5.1V	1.4V	1.4V	0V	--	--	--	
IC104	UPC4570HA	9.3V	0V	0V	0V	-9.2V	0V	0V	-0.1V	9.3V	--	--	--	--	--	--	--	--	--	--	
IC105	UPC4570HA	9.3V	4.3V	0V	0V	-9.2V	2.0V	2.0V	-4.3V	9.3V	--	--	--	--	--	--	--	--	--	--	
IC106	UPC4570HA	9.2V	8.2V	0.1V	2.1V	-9.2V	0V	0V	0V	9.2V	--	--	--	--	--	--	--	--	--	--	
IC107	UPC4570HA	9.2V	0V	0V	0V	-9.2V	0V	0.6V	-7.9V	9.2V	--	--	--	--	--	--	--	--	--	--	
IC108	UPC4570HA	9.3V	0V	0V	0V	-9.2V	0V	0V	0V	9.2V	--	--	--	--	--	--	--	--	--	--	
IC109	TC9215P	0V	0V	0V	0V	0V	0V	0V	-9.2V	0V	0V	0V	0V	0V	0V	0V	9.3V	--	--	--	

TRANSISTOR DC VOLTAGES														
Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q104	2SC2839	2.7V	10.6V	2.0V	Q112	2SC3330	0.6V	3.5V	0.2V	Q117	2SA1345	0.1V	9.2V	9.3V
Q105	2SC2839	2.7V	6.2V	2.0V	Q113	2SC3330	0.5V	0V	0V			G	D	S
Q109	2SA1345	0V	13.1V	13.7V	Q114	2SC3330	0.5V	0V	0V	Q101	2SK246	3.4V	11.8V	5.7V
Q110	2SA1345	12.2V	0V	12.3V	Q115	2SD1012	0.6V	0V	0V	Q102	2SK246	7.9V	7.9V	10.4V
Q111	2SA1317	8.7V	9.2V	9.3V	Q116	2SD1012	0.6V	0V	0V	Q103	2SK583	7.9V	1.4V	0V

Phono EQ/Input P.C.Board

IC PIN NUMBERS DC VOLTAGES																					
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC301	LA6462D	0V	0V	0V	-17.1V	0V	0V	0V	16.8V	--	--	--	--	--	--	--	--	--	--	--	
IC302	LA6458SS	16.7V	0V	0V	0V	-17.0V	0V	0V	0V	16.8V	--	--	--	--	--	--	--	--	--	--	
IC303	LA6458SS	16.7V	0V	0V	0V	-17.0V	0V	0V	0V	16.7V	--	--	--	--	--	--	--	--	--	--	
IC304	LA6458SS	15.3V	0V	0V	0V	-15.9V	0V	0V	0V	15.3V	--	--	--	--	--	--	--	--	--	--	
IC305	LA6458SS	15.3V	0V	0V	0V	-15.9V	0V	0V	0V	15.3V	--	--	--	--	--	--	--	--	--	--	
IC306	TC9215P	0V	15.2V	0V	0V	14.6V	0V	0V	-15.8V	0V	0V	0V	0V	0V	0V	0V	15.2V	--	--	--	
IC307	LC7821	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	-16.0V	0V	0V	0V	0V	15.3V	15.3V	0V	
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	--	--	--	--	--	--	--	--	--
IC308	LC7823	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	-15.9V	0V	0V	0V	0V	15.2V	15.3V	0V	
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	--	--	--	--	--	--	--	--	--	--
IC309	LA6458SS	16.0V	0V	0V	0V	-16.4V	0V	0V	0V	16.0V	--	--	--	--	--	--	--	--	--	--	
IC401	LA7016	13.2V	8.7V	0V	8.0V	0V	0V	8.7V	0V	--	--	--	--	--	--	--	--	--	--	--	

TRANSISTOR DC VOLTAGES														
Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q301	2SC3399	0V	15.1V	0V	Q401	2SC3330	7.9V	11.9V	7.3V	Q405	2SA1246	8.2V	0V	0V
Q302	2SC3399	4.5V	0V	0V	Q402	2SC3330	3.6V	8.7V	3.0V	Q406	2SC3330	0V	12.0V	0V
Q303	2SA1345	15.1V	0V	15.2V	Q403	2SC3330	8.6V	11.9V	8.0V	Q407	2SC3399	0V	0.6V	0V
Q304	2SA1345	0V	15.2V	15.2V	Q404	2SC3330	7.9V	11.9V	7.2V	Q408	2SC536	0.7V	0V	0V

IC & TRANSISTOR REFERENCE VOLTAGES TABLE (Continued)

Micom/Graphic EQ P.C. Board

		IC PIN NUMBERS DC VOLTAGES																				
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
IC501	LA6458SS	15.8V	0V	0V	0V	-16.1V	0V	0V	0V	15.8V												
IC601	TMP47C870N	-28.6V	-16.2V	-12.5V	-5.2V	-8.9V	-20.0V	-24.1V	24.1V	-12.5V	-8.9V	-5.7V	-20.2V	-24.1V	0.1V	5.6V	5.7V	0V	0V	2.3V	2.4V	
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	
		4.9V	4.8V	4.9V	0.7V	0V	0V	0V	0V	0V	0V	5.6V	0V	5.7V	0V	5.7V	0V	0V	0V	0V	0V	0V
		41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
		5.8V	5.7V	0V	0.2V	0V	0V	0V	28.5V	28.5V	28.5V	5.0V	-28.5V	5.0V	-28.5V	28.3V	24.9V	-25.3V	-25.2V	-25.2V	25.0V	
		61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
		-25.0V	-25.3V	-25.2V	5.1V																	

TRANSISTOR DC VOLTAGES

Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q501	2SC1740	-0.8V	15.3V	-1.4V	Q509	2SC3330	-0.1V	15.2V	-0.7V	Q607	2SC3399	0.2V	4.4V	0V
Q502	2SC1740	-0.8V	15.3V	-1.4V	Q510	2SC3330	-0.1V	15.2V	-0.7V	Q608	2SC3399	0V	4.3V	0V
Q503	2SC1740	-0.6V	15.3V	-1.2V	Q601	2SC3399	2.1V	0.5V	0V	Q609	2SC3399	0V	4.3V	0V
Q504	2SC1740	-0.5V	15.3V	-1.1V	Q602	2SA1345	0.5V	5.3V	5.6V	Q610	2SC4067	0V	5.0V	0V
Q505	2SC3330	-0.2V	15.3V	-0.8V	Q603	2SC536	-25.0V	0V	-25.2V	Q611	2SC3399	0V	4.8V	0V
Q506	2SC3330	-0.2V	15.3V	-0.8V	Q604	2SC536	25.0V	5.9V	25.2V	Q612	2SA608	5.7V	0V	5.9V
Q507	2SC3330	0.2V	15.2V	0.8V	Q605	2SC536	25.0V	5.9V	25.2V	Q613	2SA1511	5.1V	0V	2.1V
	2SC3330	0.2V	15.2V	0.8V	C606	2SC3399	0V	4.3V	0V					

Main P.C. Board/Bias & Power Transistor P.C. Board

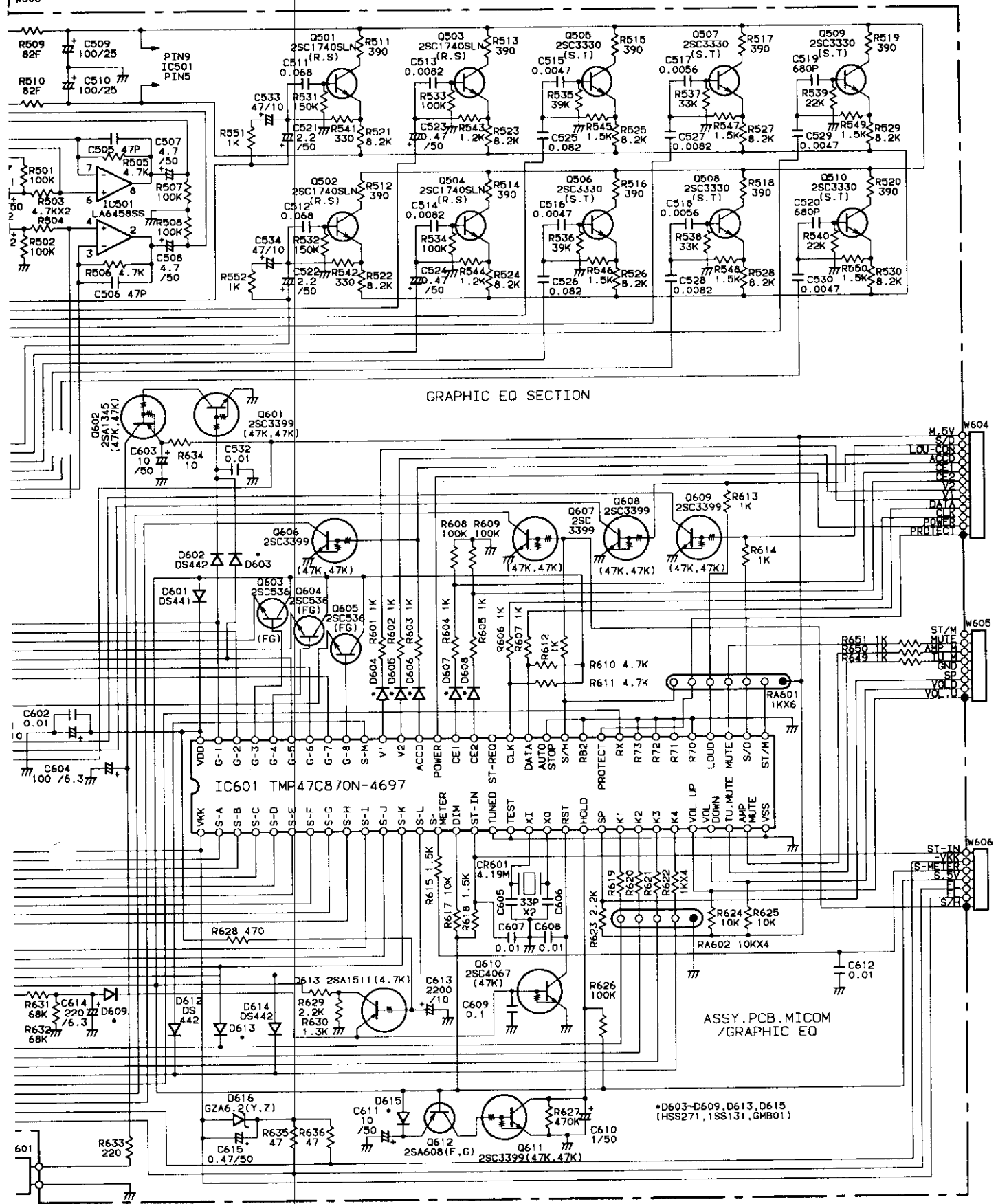
		IC PIN NUMBERS DC VOLTAGES															
Ref. No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC701,702	UPC4570HA	16.3V	0V	0V	0V	-16.6V	0V	0V	0V	16.3V							
IC703,704	UPC4570HA	15.9V	0V	0V	0V	-16.2V	0V	0V	0V	16.0V							
IC705,706	UPC4570HA	15.2V	0V	0V	0V	15.5V	0V	0V	0V	15.7V							
IC707,708	UPC4570HA	15.2V	0V	0V	0V	15.5V	0V	0V	0V	15.2V							
IC709,710	UPC4570HA	15.3V	0V	0V	0V	15.6V	0V	0V	0V	15.3V							
IC711	TC9215P	0V	0V	0V	0V	0V	0V	0V	-15.0V	0V	0V	0V	0.2V	0V	0V	0V	14.8V
IC712	TC9215P	0V	0V	0V	0V	0V	0V	0V	15.1V	0V	0V	0V	0V	0V	0V	0V	14.8V
IC713	TC9215P	0V	0V	0V	0V	0V	0V	0V	-15.1V	0V	0V	0.1V	0V	0.1V	0V	0V	14.8V
IC714	LA6458SS	14.8V	0V	0V	0V	0V	0V	0V	0V	14.8V							
IC901	LB1641	0V	0.4V	0.6V	3.5V	0V	0V	18.8V	18.8V	0.6V	0.4V						

TRANSISTOR DC VOLTAGES

Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E	Ref. No.	DEVICE	B	C	E
Q701	2SC3792	-14.9V	0V	0V	Q913	2SA1507	-1.1V	26.9V	-0.5V	Q931	2SA1348	5.7V	0V	5.7V
Q702	2SC3792	-14.9V	0V	0V	Q914	2SA1507	1.1V	27.0V	0.5V	Q933	2SC2274	16.0V	73.3V	48.6V
Q703	2SC3792	-14.9V	0V	0V	Q915	2SC3281	0.5V	72.1V	0V	Q934	2SA984	-16.0V	73.2V	-16.9V
Q704	2SC3792	-14.9V	0V	0V	Q916	2SC3281	0.5V	72.0V	0V	Q935	2SA1507	71.3V	72.2V	72.0V
Q705	2SA1345	5.7V	-14.9V	5.7V	Q917	2SA1302	-0.5V	26.8V	0V	Q936	2SC3902	73.0V	-26.9V	-72.6V
Q706	2SA1345	5.6V	-14.9V	5.7V	Q918	2SA1302	-0.5V	26.9V	0V	Q937	2SB1231	72.2V	72.1V	72.8V
Q901	2SA608	71.7V	71.3V	72.3V	Q919	2SC536	0V	0.9V	0V	Q938	2SD1841	-72.4V	26.9V	72.9V
Q902	2SA608	71.7V	71.2V	72.3V	Q920	2SC536	0V	1.0V	0V	Q941	2SD1682	18.4V	26.0V	17.9V
Q903	2SC3066	0V	71.9V	-0.6V	Q921	2SA608	0V	-0.9V	0V	Q942	2SB1142	-18.6V	-25.9V	-18.1V
Q904	2SC3066	0V	71.4V	-0.6V	Q922	2SA608	0V	0.9V	0V	Q944	2SD1682	14.3V	18.9V	13.7V
Q905	2SA1209	71.2V	1.0V	71.5V	Q923	2SC3792	-18.0V	0V	0V	Q945	2SA608	-29.2V	-36.7V	28.6V
Q906	2SA1209	70.9V	1.0V	71.5V	Q924	2SC3792	-18.0V	0V	0V	Q946	2SC4048	5.0V	0V	0V
Q907	2SC2911	-71.4V	-1.1V	-72.1V	Q925	2SA1345	17.7V	18.0V	17.9V	Q947	2SD1682	6.5V	10.4V	5.9V
Q908	2SC2911	-71.4V	-1.1V	-72.0V	Q926	2SC3399	0V	17.7V	0V					
Q909	2SD1682	1.1V	1.0V	0.5V	Q927	2SC4048	4.6V	0V	0V					
Q910	2SD1682	1.1V	1.0V	0.5V	Q928	2SC536	0V	4.5V	0V	Q939	2SK246	18.5V	26.1V	18.4V
Q911	2SC3902	1.0V	72.0V	0.5V	Q929	2SC536	0V	5.7V	0V	Q940	2SK246	25.9V	18.6V	26.1V
Q912	2SC3902	1.0V	26.9V	0.5V	Q930	2SC536	0V	5.7V	0V	Q943	2SK246	14.3V	19.0V	14.3V

Micom/Graphic EQ Section)

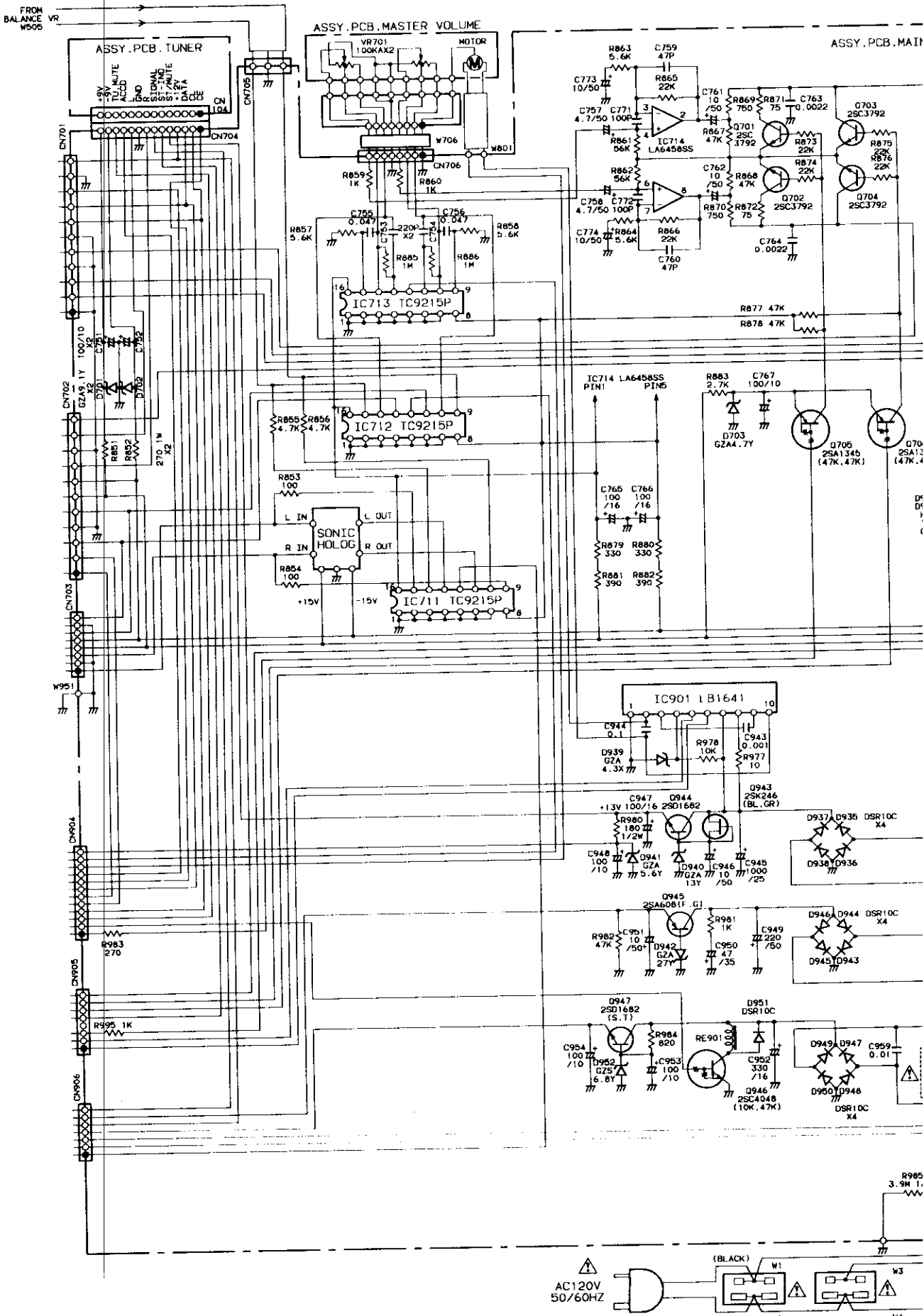
W503



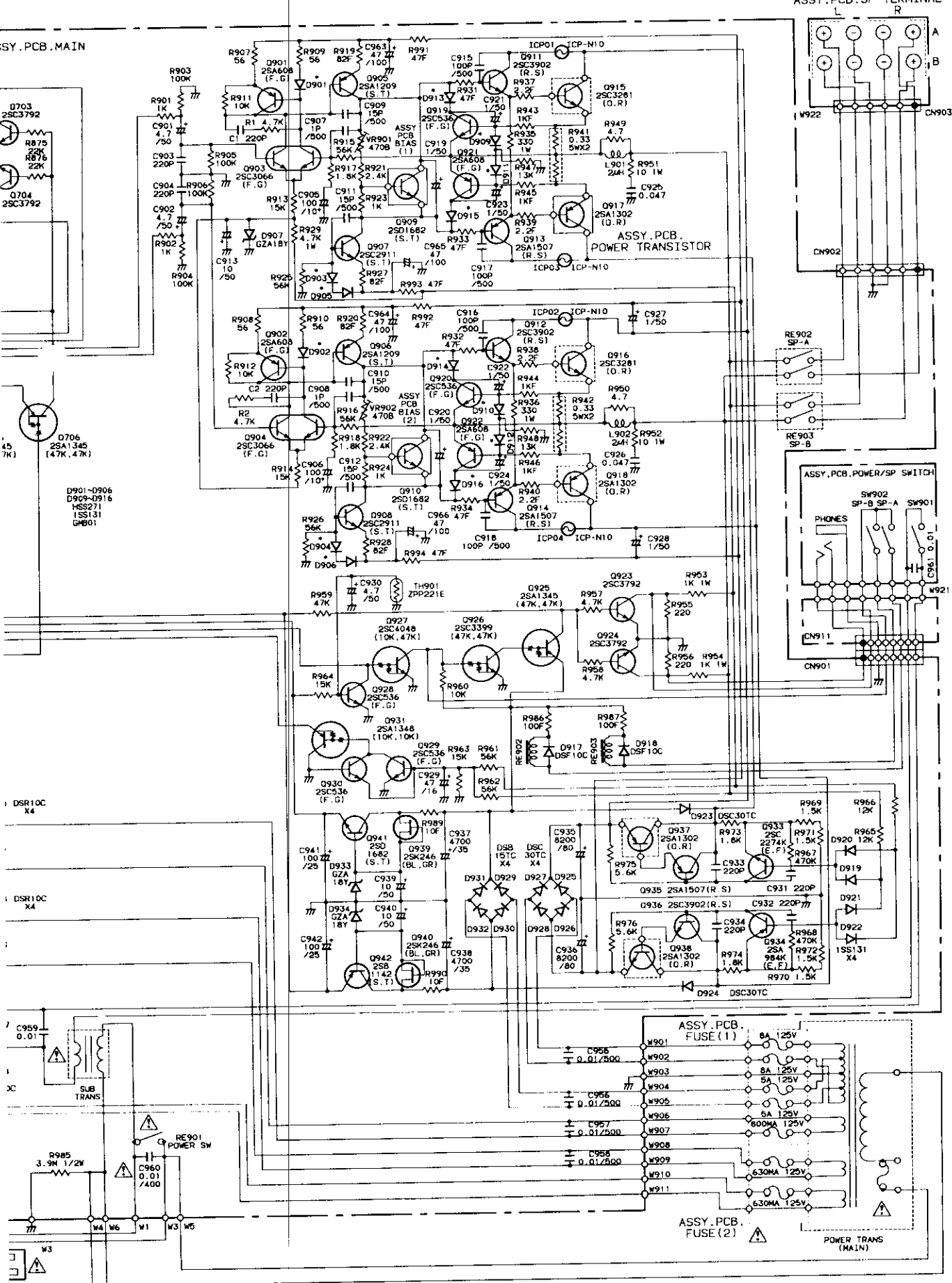
ED VOLUME

*D603-D609, D613, D615 (HSS271, 1SS131, GMB01)

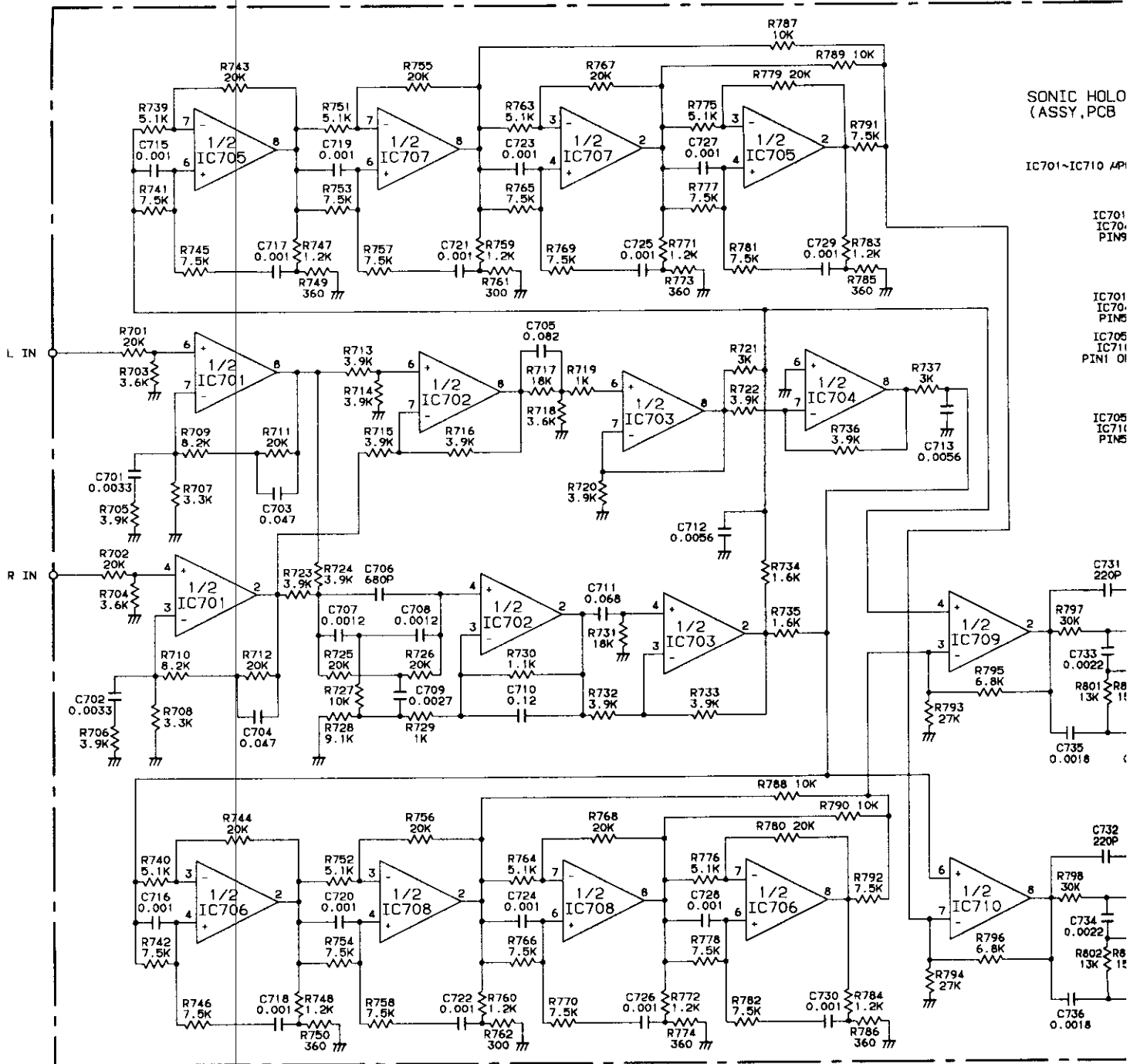
SCHEMATIC DIAG



C DIAGRAM (Main Section)



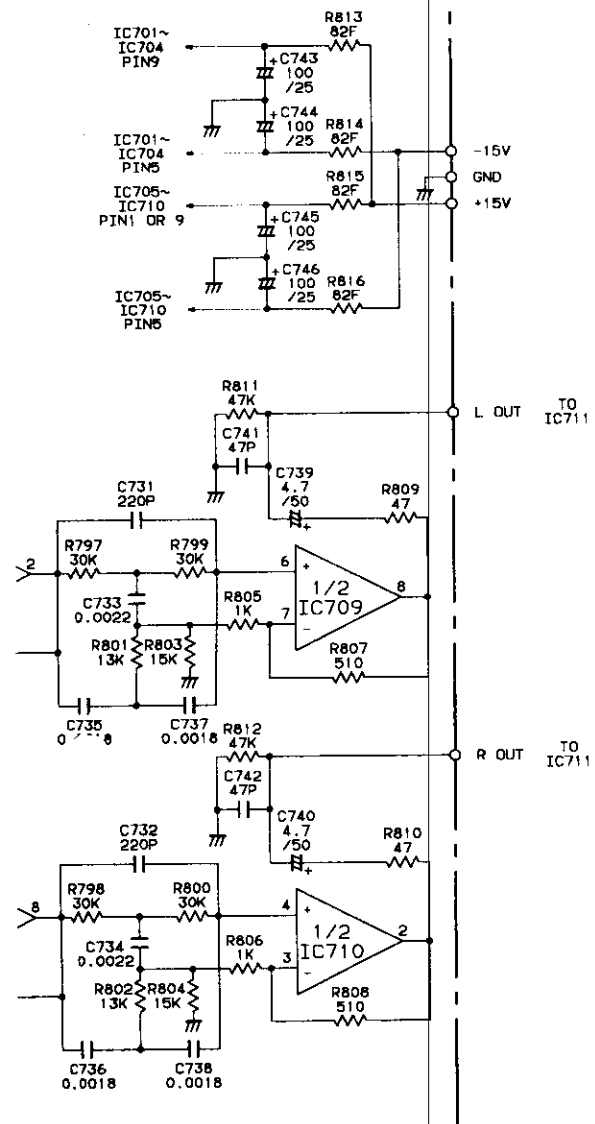
SCHEMATIC DIAGRAM (Sonic H



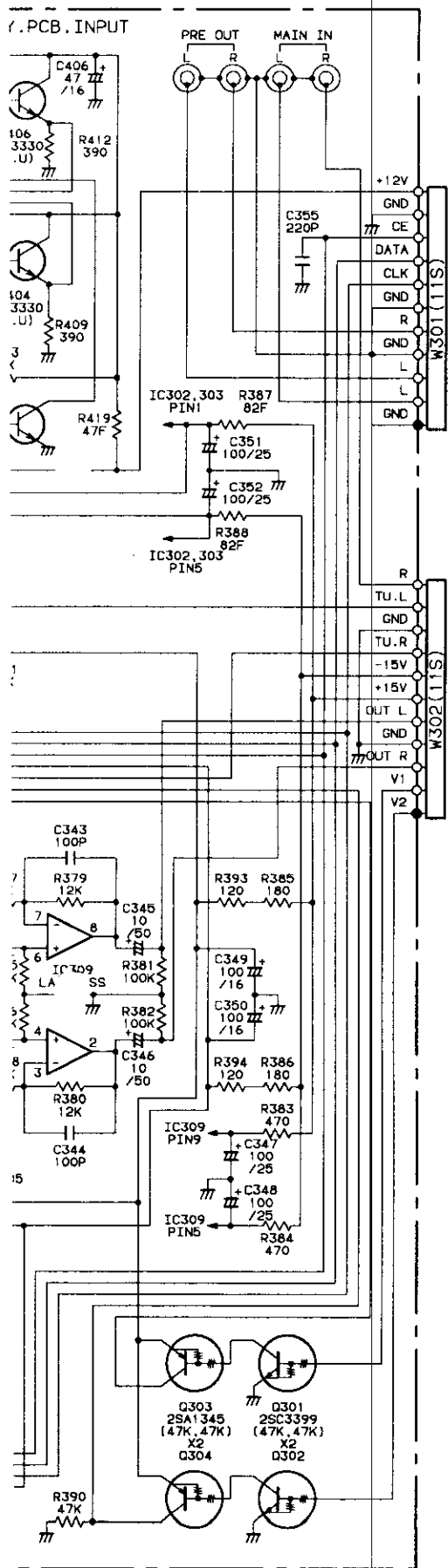
I (Sonic Holography Section)

SONIC HOLOGRAPHY
(ASSY, PCB MAIN)

IC701~IC710 APC 4570 HA



GRAM (Phono EQ/Input Section)



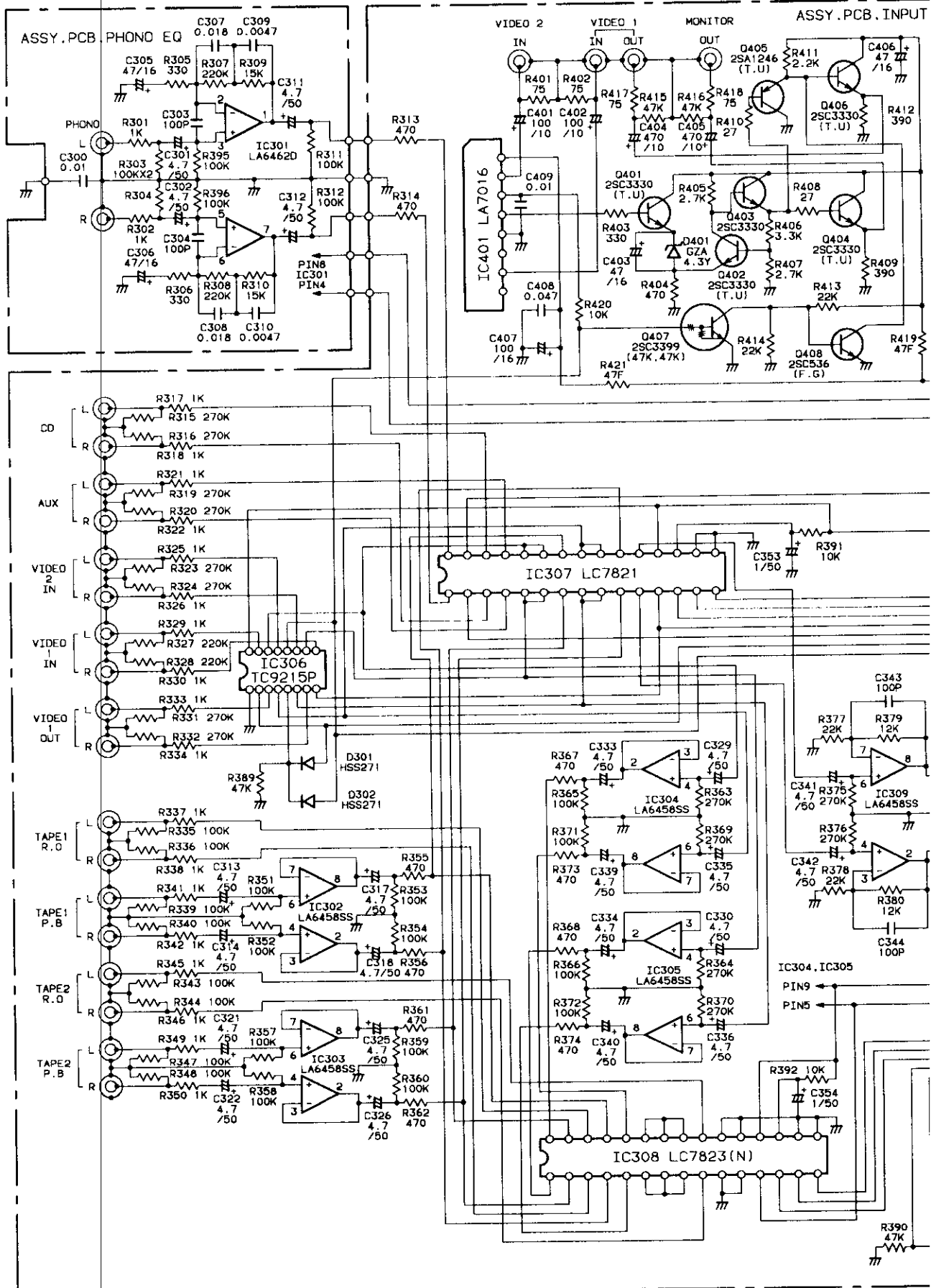
NOTES:

1. All resistors are 1/4 watt or 1/6 watt 5% unless marked. Otherwise Resistor values are in ohms (K=1000 ohms, M=1000k ohms).
2. All capacitor values are in microfarads. (P=picofarads).
3. Δ is Safety Part. Use only replacement parts recommended by the manufacturer.
4. This is a basic schematic diagram.

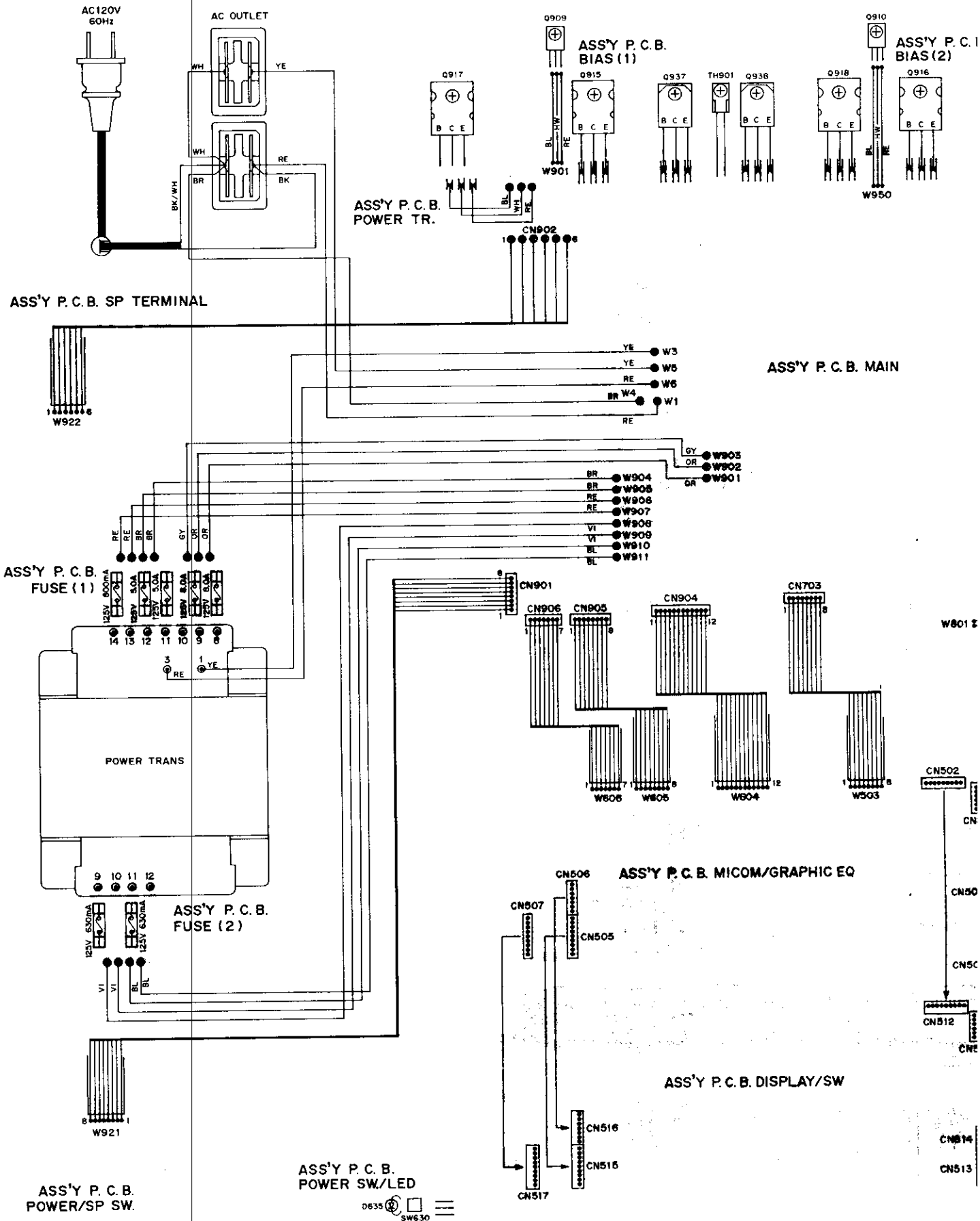
PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol Δ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with Δ , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

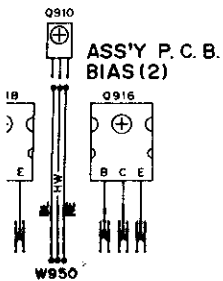
SCHEMATIC DIAGRAM (P)



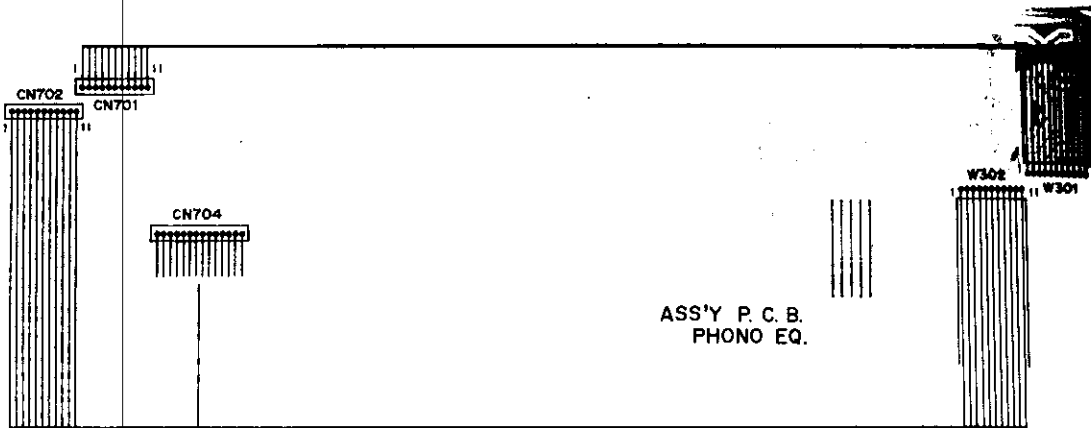
WIRING DIAGRAM



ING DIAGRAM

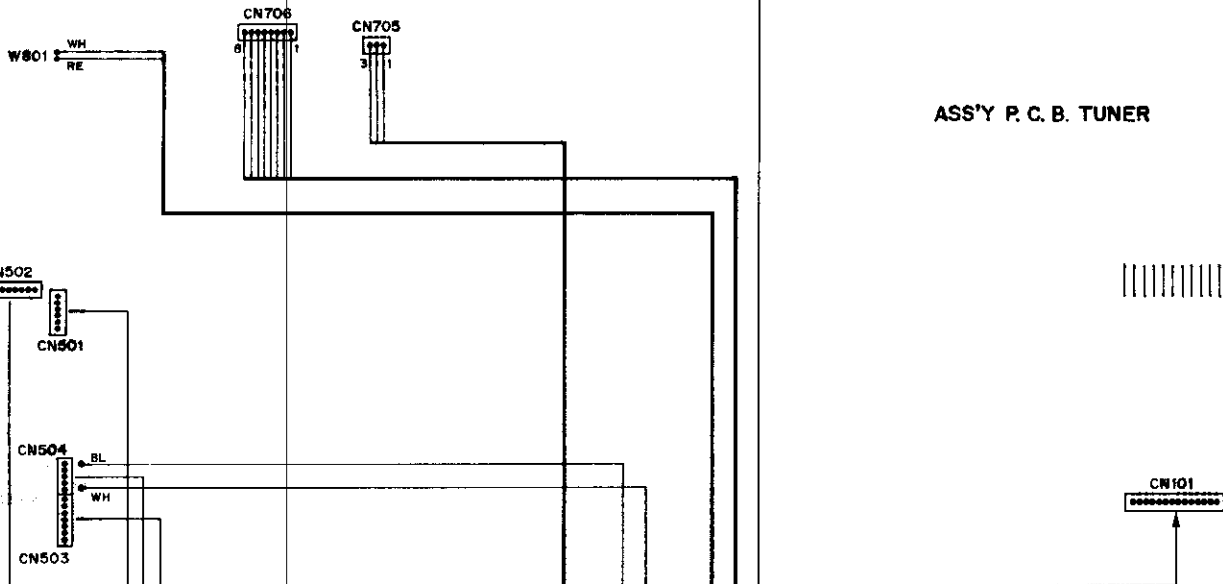


ASS'Y P. C. B. INPUT



B. MAIN

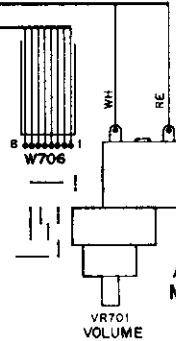
ASS'Y P. C. B. TUNER



ASS'Y P. C. B. BALANCE/SW

ASS'Y P. C. B. LED VOLUME

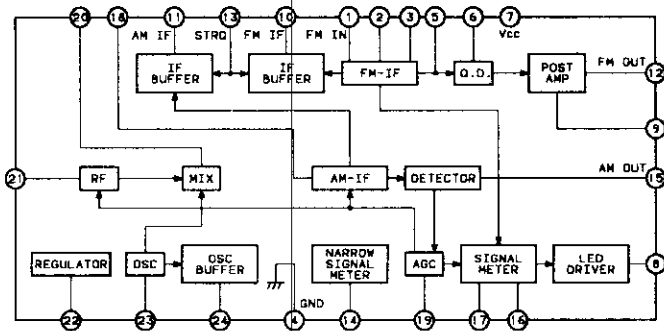
D634



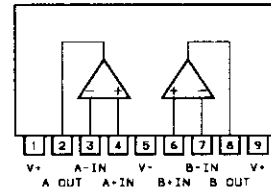
ASS'Y P. C. B. MASTER VOLUME

IC BLOCK DIAGRAM

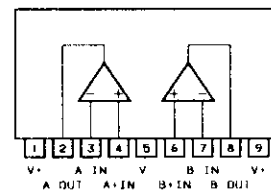
IC101 LA1266 BLOCK DIAGRAM
(AM/FM IF Amp. Detector System)



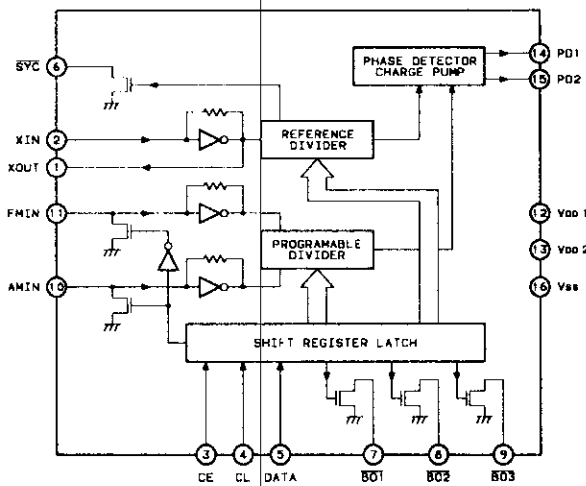
IC501,IC302,IC303,IC304,IC305,IC714,IC309
LA6458SS BLOCK DIAGRAM
(Dual Operational Amp.)



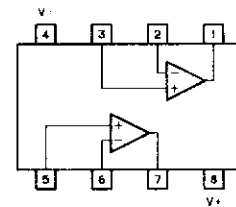
IC701 ~ IC710, IC104 ~ IC108 UPC4570HA BLOCK
DIAGRAM
(Dual Operational Amp.)



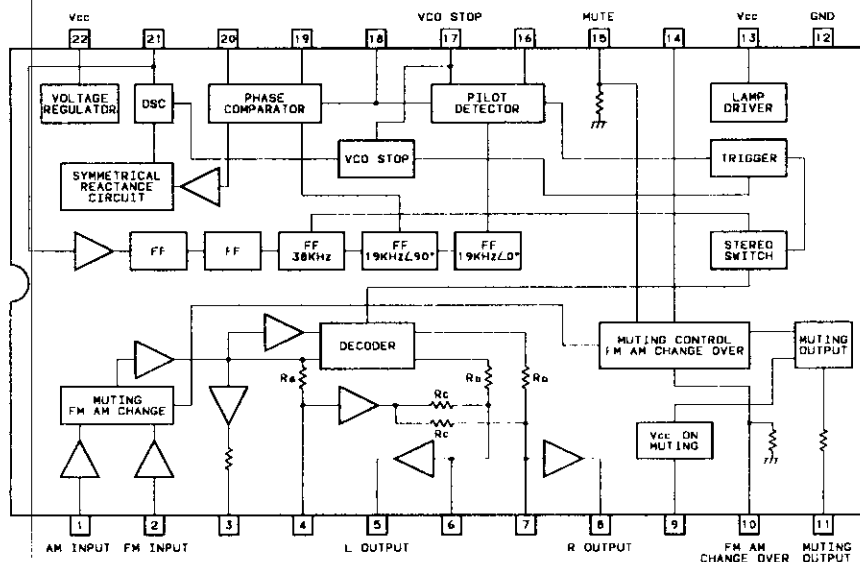
IC103 LM7001 BLOCK DIAGRAM
(Phase Lock Loop)



IC301 LA6462D BLOCK DIAGRAM
(Dual Operational Amp.)

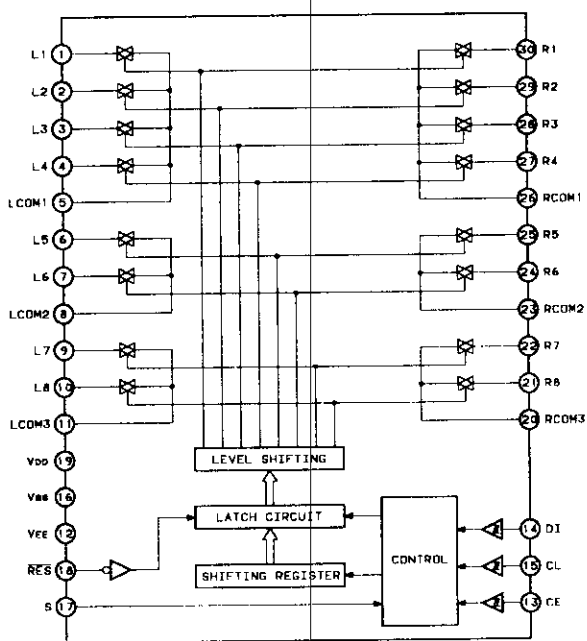


IC102 LA3401 BLOCK DIAGRAM
(FM MPX & FM AM Change Control)

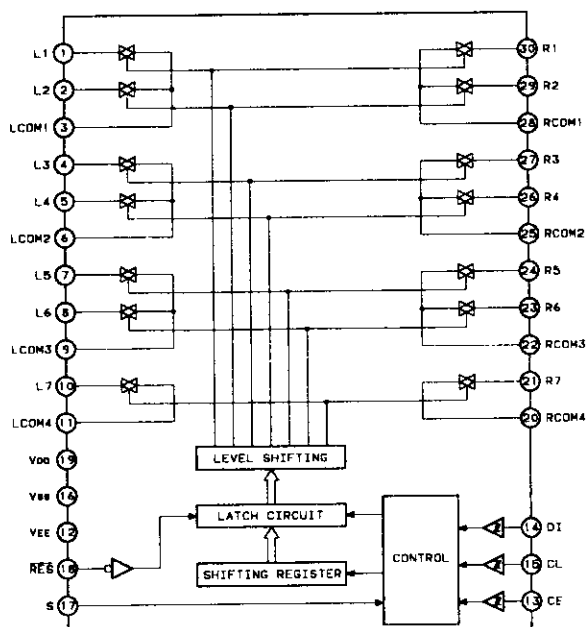


IC BLOCK DIAGRAM (Continued)

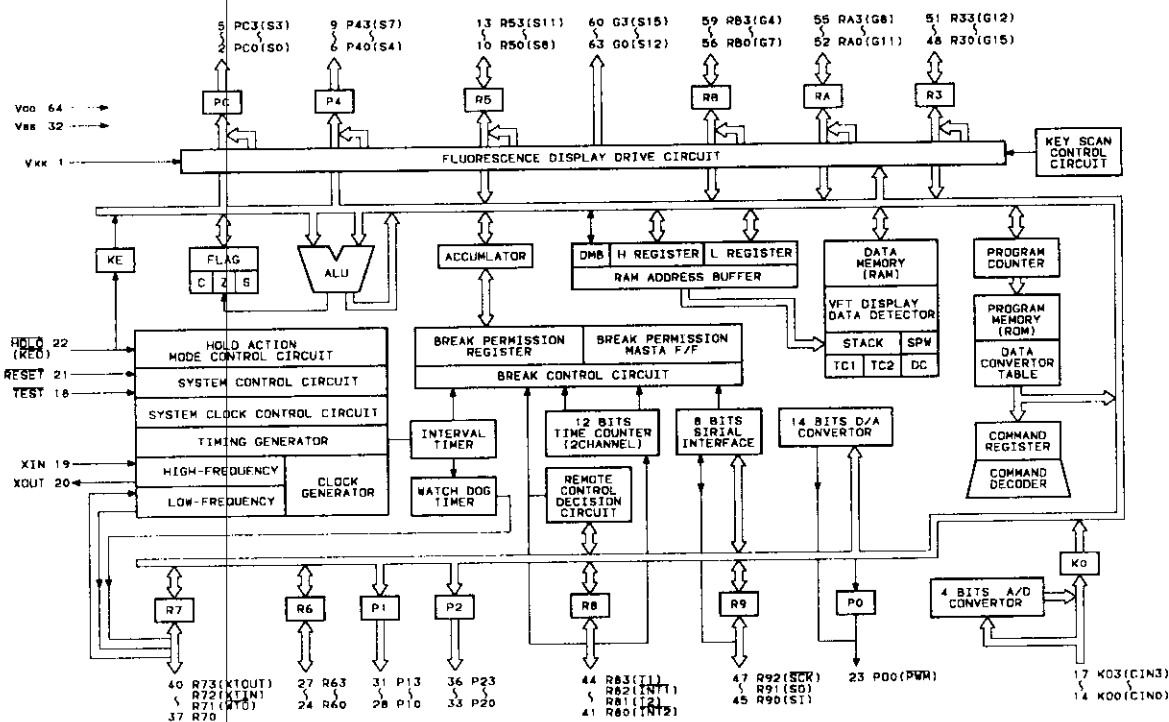
IC307 LC7821 BLOCK DIAGRAM (Function Selector)



IC308 LC7823 BLOCK DIAGRAM (Function Selector)

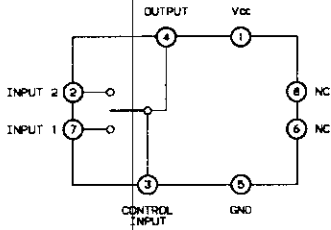


IC601 TMP47C870N-4697Z BLOCK DIAGRAM (Tuner/Function Control Micro Computer)

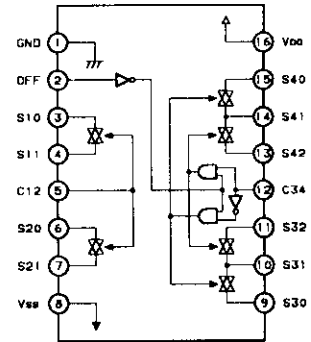


IC BLOCK DIAGRAM (Continued)

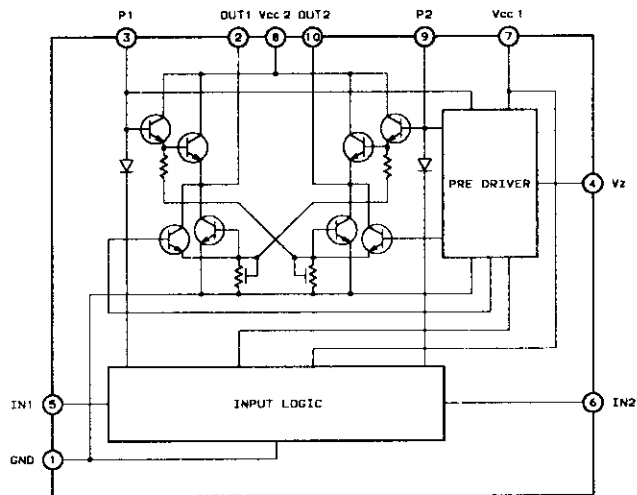
IC401 LA7016 BLOCK DIAGRAM
(Video Input Selector)



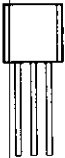
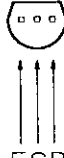
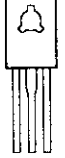

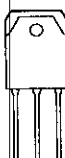

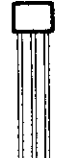

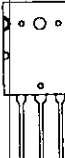

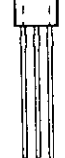









**IC109, IC306, IC713, IC712, IC711
TC9215P BLOCK DIAGRAM**
(Function Selector)



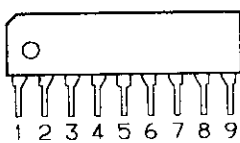
IC901 LB1641 BLOCK DIAGRAM
(Motor Driver)



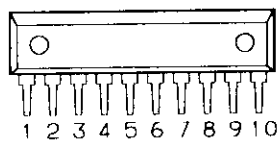
IC & TRANSISTOR LEAD IDENTIFICATION

TRANSISTOR	FRONT VIEW	BOTTOM VIEW	TRANSISTOR	FRONT VIEW	BOTTOM VIEW
2SA1246 2SA984K 2SC2274K 2SC3792	 ECB	 ECB	2SA1209 2SC2911	 ECB	 ECB
2SB1231 2SD1841	 BCE	 BCE	2SA1511 2SC4067	 ECB	 ECB
2SA1302 2SC3281	 BCE	 BCE	2SA1317 2SA1345 2SA1348 2SA608 2SC1740 2SC2839 2SC3330 2SC3399 2SC4048 2SC536 2SD1012	 ECB	 ECB
2SK246	 SGD	 SGD	2SC3066	 ECB	 ECB
2SA1507 2SB1142 2SC3902 2SD1682	 ECB	 ECB	2SK583	 DSG	 DSG
TERMINAL NAME					
B → BASE C → COLLECTOR E → EMITTER			S → SOURCE G → GATE D → DRAIN		

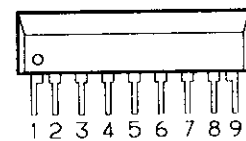
LA6458SS FRONT/SIDE VIEWS



LB1641 FRONT/SIDE VIEWS

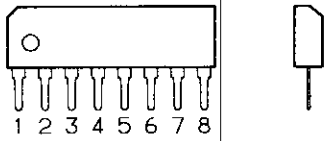


UPC4570HA FRONT/SIDE VIEWS

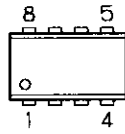


IC & TRANSISTOR LEAD IDENTIFICATION (Continued)

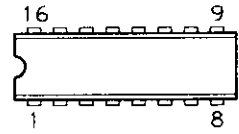
LA7016 FRONT/SIDE VIEWS



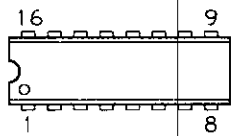
LA6462D TOP VIEW



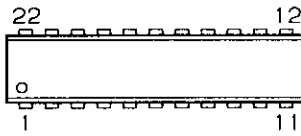
TC9215P TOP VIEW



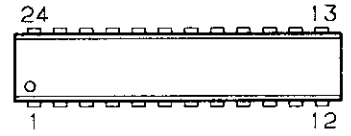
LM7001 TOP VIEW



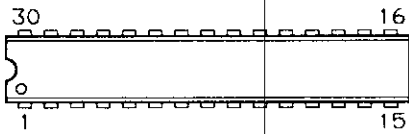
LA3401 TOP VIEW



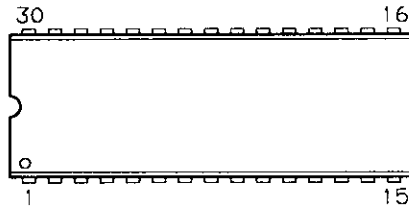
LA1266 TOP VIEW



LC7821 TOP VIEW



LC7823 TOP VIEW



TMP47C870N-4697Z TOP VIEW

