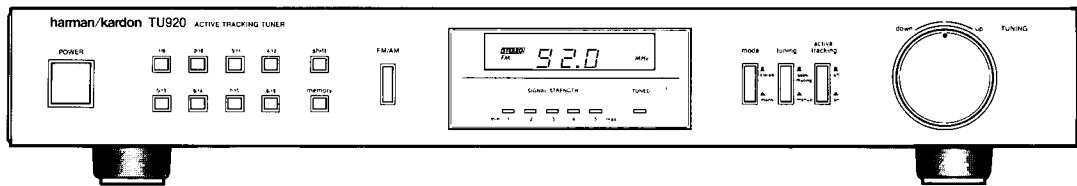


The Harman Kardon Model TU920

ACTIVE TRACKING TUNER

Manual 117A

Technical Manual



The following marks found in the parts list of this manual identify the models as follows.

- UA : North America area model
- BK : North America area model Black version
- G : General model
- GB : General model Black version

harman/kardon

240 Crossways Park West, Woodbury, N.Y. 11797
1112-3152117A1 P-088709 1500 Printed in Japan

SPECIFICATIONS

● FM SECTION		Nominal	Limit	● AM SECTION		Nominal	Limit
Tuning range		87.5 ~ 108.0MHz		Tuning range		520 ~ 1,710kHz	
Mono		50dB Quieting Sensitivity		Usable Sensitivity			
Mono for active tracking		14.2dBf \leq 19dBf		External Antenna		14 μ V \leq 20 μ V	
Stereo		14.7dBf \leq 19dBf		Loop Antenna		360 μ V/m \leq 700 μ V/m	
Usable Sensitivity		38.2dBf \leq 41dBf		Selectivity		33dB \geq 26dB	
Image Ratio		11.7dBf \leq 15dBf		Signal to Noise Ratio		53dB \geq 48dB	
IF Rejection		49dB \geq 40dB		Image Rejection		40dB \geq 30dB	
Spurious Response Rejection		92dB \leq 75dB		IF Rejection		66dB \geq 50dB	
Capture Ratio		94dB					
Alternate Channel Sensitivity for active tracking		1.5dB \leq 2dB		● DIMENSION		17-7/16" x 2-11/16" x 14-3/16"	
AM Rejection		60dB \geq 50dB		(W x H x D)		(443 x 68 x 360 mm)	
Signal to Noise Ratio		75dB \geq 65dB					
Mono		59dB \geq 49dB		● WEIGHT		7.3 lbs.(3.3 kg)	
Stereo		80dB \geq 75dB		● POWER SUPPLIES			
Total Harmonic Distortion		73dB \geq 68dB		for North America area model		AC 120V, 60Hz	
Mono		0.09% \leq 0.3%		for General mode		AC 220/240V, 50/60Hz	
Mono for active tracking		0.28% \leq 0.5%					
Stereo		0.13% \leq 0.4%		● POWER CONSUMPTION		14W	
Stereo for active tracking		0.3% \leq 0.8%					
Stereo Separation at 1 kHz		52dB \geq 40dB					
for active tracking		32dB \geq 28dB					
Output Level/Impedance (Stereo)		750mV/2.2k Ω					

This specification is the target of servicing. But, there is a care that the specification is not applicable to the measurement condition and instrument.

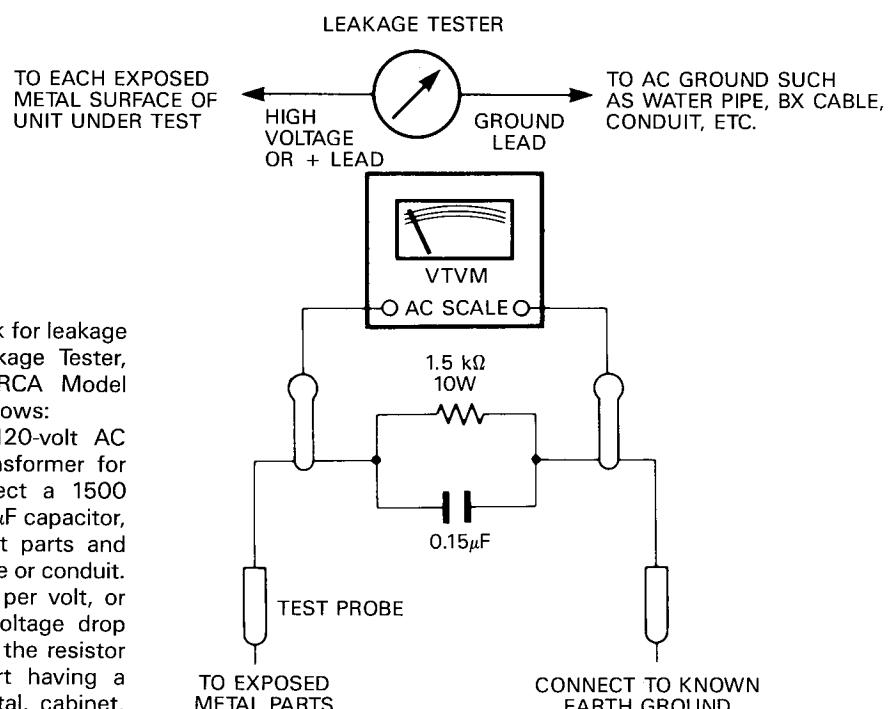
Specifications and components subject to change without notice. Overall performance will be maintained or improved.

LEAKAGE TEST (FOR SERVICE ENGINEERS IN THE U.S.A.)

Before returning the unit to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the unit.
2. Be sure that any protective devices such as nonmetallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc. which were removed for servicing are properly reinstalled.
3. Be sure that no shock hazard exists; check for leakage current using Simpson Model 229 Leakage Tester, standard equipment item No. 21641, RCA Model WT540A or use alternate method as follows:

Plug the power cord directly into a 120-volt AC receptacle (do not use an Isolation Transformer for this test). Using two clip leads, connect a 1500 Ohm, 10-watt resistor paralleled by a 0.15 μ F capacitor, in series with all exposed metal cabinet parts and a known earth ground, such as a water pipe or conduit. Use a VTVM or VOM with 1000 Ohms per volt, or higher sensitivity to measure the AC voltage drop across the resistor. (See Diagram.) Move the resistor connection to each exposed metal part having a return path to the chassis (antenna, metal, cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor. (This test should be performed with the power switch in both the On and Off positions.) A reading of 0.35 volt RMS or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.



DISASSEMBLY PROCEDURES (REFER TO PAGES 6 THROUGH 8 AND 11)

① CABINET TOP REMOVAL

Remove 6 screws (A) and then remove the Cabinet Top (131).

② FRONT PANEL ASS'Y (AA) REMOVAL

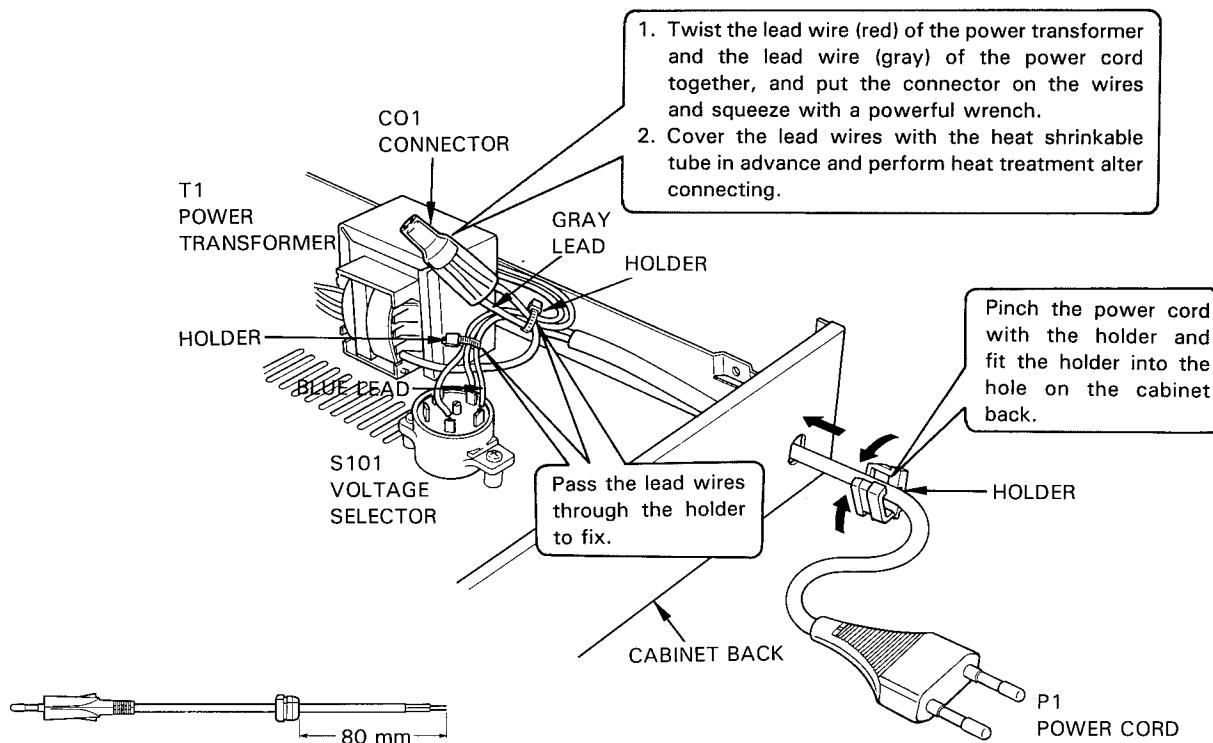
1. Remove the Cabinet Top (131), referring to the previous step ①.
2. Remove 7 screws (B) and then remove the Front Panel Ass'Y (AA).

③ MAIN P. C. BOARD (PCB-1) REMOVAL

1. Remove the Front Panel Ass'Y (AA), referring to the previous step ②.
2. Unsolder the lead wires connected to the Main P. C. Board (PCB-1).
3. Remove 8 screws (C) and then remove the Main P. C. Board (PCB-1) with the Preset Switches and Tuning Switches P. C. Boards (PCB-2 and PCB-3) Chassis (173), etc.
4. Remove 2 screws (D) and then remove the Chassis (173) with PCB-2 and PCB-3.

POWER CORD REPLACEMENT (FOR SERVICE ENGINEERS OTHER THAN NORTH AMERICA)

In order to prevent fire or shock hazard when replacing the power cord, follow the procedure below to replace the part with the standard supply parts.



ALIGNMENT PROCEDURES (REFER TO PAGES 9, 10, 17 AND 18)

■ AM ADJUSTMENT

- Conditions :
- Set the AM mode by pressing the "FM/AM" button.
 - Press the "mode" switch to the "mono" (button in) position.
 - Standard modulation of the AM signal Generator is 400Hz at 30%.

Step	Alignment	Connection Equipments	Measurement Frequency	Station Display	Adjustment	For
1	IF	• Connect the AM Test Loop Antenna cable into the output jack of AM Signal Generator. Place AM Test Loop Antenna close enough to couple signal into the AM Loop Antenna.	1400kHz	1400kHz	T251	Maximum output level and symmetrical curve on scope.
2			1400kHz	1400kHz	TC251	Maximum output.
3	Tracking	• Connect the VTM and oscilloscope to the OUTPUT jacks.	600kHz	600kHz	L251	Maximum output.
4		Repeat steps 2 and 3 for optimum sensitivity.				
5	Tuned indicator		1000kHz	1000kHz		Confirm the TUNED indicator lights at 5000 μ V/m input.

■ FM ADJUSTMENT

- Conditions : • Set the FM mode by pressing the "FM/AM" button.
 • Press the "mode" switch to the "mono" (button in) position.

	U.S.A. model	General model	
FM Signal Generator	1kHz, 100% modulation		1kHz, 45% modulation
Stereo Modulator	$L+R = 45.5\%$, $L-R = 45.5\%$, $19\text{kHz} = 9\%$		$L+R = 22.5\%$, $L-R = 22.5\%$, $19\text{kHz} = 8\%$

Step	Alignment	Connection Equipments	Measurement Frequency	Station Display	Adjustment	For
1	Discrimin- ator	<ul style="list-style-type: none"> Connect the FM Signal Generator to FM 300Ω BAL Antenna terminals through the 300Ω balanced dummy. [1mV(65dBf) input] Connect the Oscilloscope and Distortion meter to the OUTPUT jacks. 	98.1MHz ±30~40kHz	98.1MHz	T201(A)	Adjust so that the TUNED indicator lights in the same range on both plus (+) and minus (-) sides of 98.1MHz.
2			98.1MHz	98.1MHz	T201(B)	Minimum distortion.
3			Repeat steps 1 and 2 for optimum sensitivity.			
4	Tuned indicator		98.1MHz	98.1MHz	VR351	Adjust so that the TUNED indicator lights at 22μV input. (32μV/75Ω input for General model)
5	Signal indicator		98.1MHz	98.1MHz	VR351	Adjust so that the five SIGNAL STRENGTH indicator lights at 450μV input. (500μV/75Ω input for General model)
6	Active tracking		98.1MHz	98.1MHz	L241 TC241	Adjust L203 so that the upper and lower parts of the waveform are symmetrical and TC241 so as to obtain the waveform immediately before clipping.
7	Tuned indicator		98.1MHz	98.1MHz	VR352	Adjust so that the TUNED indicator lights at 20μV input. (32μV/75Ω input for General model)
8	Signal indicator		98.1MHz	98.1MHz		Confirm the five SIGNAL STRENGTH indicator lights at 500μV input. (500μV/75Ω input for General model)
9	Separation	<ul style="list-style-type: none"> Connect the Stereo Modulator to FM Signal Generator. Connect FM Signal Generator to FM 300Ω BAL Antenna terminal through the 300Ω balanced dummy. Connect the VTVM and Oscilloscope to the OUTPUT jacks. Press the "mode" switch to the "stereo" (button out) position. 	98.1MHz	98.1MHz	VR301	Adjust so that the left channel output becomes minimum when only the right channel of the Stereo Modulator is modulated.
					VR301	Adjust so that the right channel output becomes minimum when only the left channel of the Stereo Modulator is modulated.
10	Normal AGC voltage	<ul style="list-style-type: none"> Contact the FM Signal Generator to FM 300Ω BAL Antenna terminals through the 300Ω balanced dummy. (1000μV/75Ω input) 	98.1MHz	98.1MHz	VR101	Adjust so that voltage becomes 1.7V.
11	Active tracking AGC voltage	<ul style="list-style-type: none"> Connect the VTVM to TP1(+) and ground(-). 	98.1MHz	98.1MHz	VR102	Adjust so that voltage becomes 1.7V.

CIRCUIT DESCRIPTION

■ FM TUNER SECTION

The FM signal which has entered through the antenna is high-frequency amplified in the front end unit FE101, mixed with the output of the local oscillator and converted into the 10.7MHz intermediate-frequency.

The 10.7MHz signal is amplified in the intermediate-frequency amplifying section which consists of CF201, Q201 and CF202 and fed to 1 pin of IC201. In IC201, the signal is transmitted through the IF amplifier in two steps, and after being detected in the quadrature, it is transmitted through the post amplifier to 12 pin and then input to 2 pin of IC301. In IC301, the pilot signal is detected out of the signal which has been fed and 38kHz signal is produced. Then by this signal, stereo signal is demodulated, output from 4 pin for the left channel and from 7 pin for the right channel be fed to the amplifier.

■ ACTIVE TRACKING CIRCUIT

When FM reception is poor because the tuned frequency is interfered by some other strong FM signal nearby, turning ON the active tracking switch causes the signal from the tuned station to come out of IF AMP Q201 and pass through D202, CF203, IF AMP Q202 and CF204. Then it is fed to 1 pin of IC202 where its phase compared with the phase of the VCO output signal composed in Q204, D205 and L241, by the phase comparison device included in IC202. The output signal of the phase comparison device is sent out from 7 pin of IC202, transmitted through LPF consisting of Q203, R239 and C238 back to D205. As this forms the PLL circuit, the VCO output signal follows the signal within the PLL lock range only and that signal is sent through D204 to 1 pin of IC201.

■ AM TUNER SECTION

The AM signal which has entered through the antenna is transmitted through the tuning circuit consisting of L251 and TC251 to IC201. IN IC201 it undergoes high-frequency amplification, intermediate-frequency amplification local oscillation, intermediate-frequency amplification and detection, and then output from 15 pin. This signal is turned ON and OFF at Q703 and Q704 according to the signal from the input selector and fed to 2 pin of IC301.

■ MUTING CIRCUIT

If FM is received out of tuning or in a very weak field intensity, 28 pin of IC702 becomes high level. This is fed to the base of Q351, whose collector then becomes low level and the collector of Q4 high level. As a result, Q301 (L ch) and (R ch) are conducted to mute the output.

■ SYNTHESIZER SECTION

- FM

The local oscillation output at the front end is fed to 5 pin of the prescaler IC701 and after being frequency devideed into 30 or 32, it is fed to 37 pin of the PLL synthesizer IC702. In IC702, the standard frequency is oscillated by the crystal oscillator, compared with the devideed local oscillation output signal and output to 34 pin. This voltage is level converted at Q701 and Q702, and fed to the varicap diode at the front end.

- AM

The local oscillation output is fed from 24 pin of IC201 to 39 pin of IC702. In IC702, the standard frequency is oscillated by the crystal oscillator, compaerd with the local oscillation output and output to 34 pin.

■ INDICATOR SECTION

- FREQUENCY DISPLAY

The serial data sent out of 27 pin of the PLL synthesizer IC702 is fed to 2 pin of the frequency indicating driver IC751, where the data is decoded to provide a signal which turns ON the indicator.

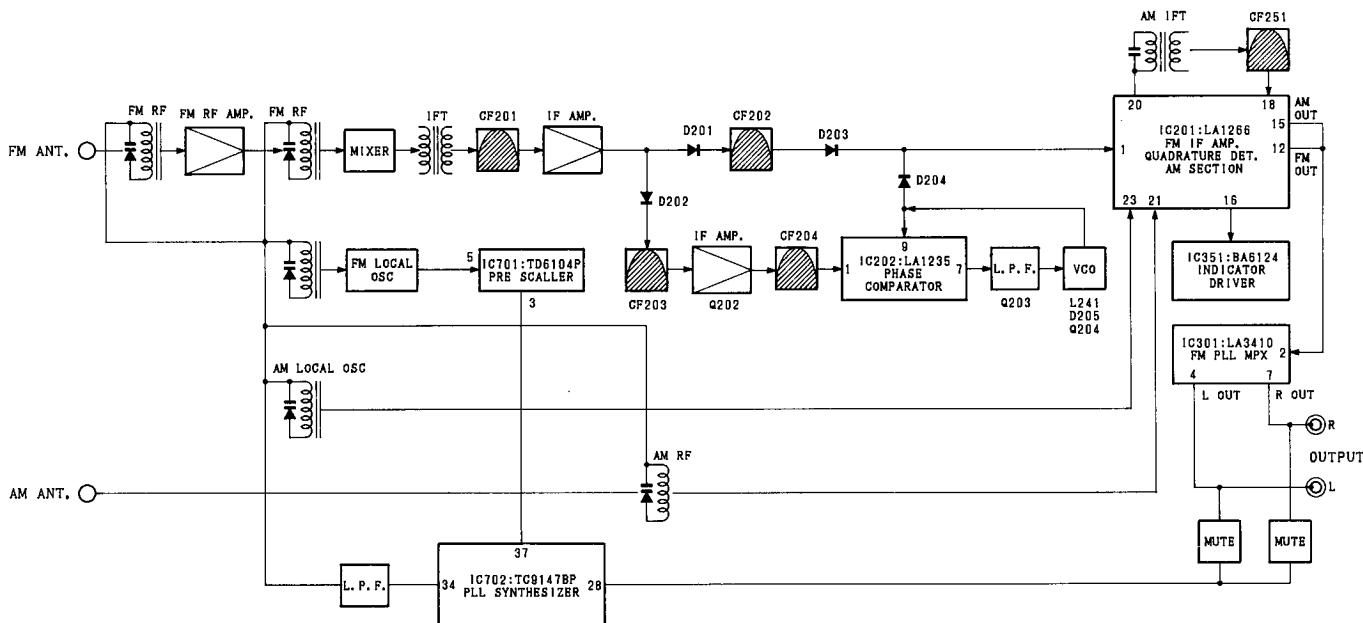
- SIGNAL STRENGTH

The voltage corresponding to the signal level is output from 16 pin of IC201 and input into 8 pin of the level comparator IC351. D361, D362, D363, D364 and D365 of the signal strength indicator turn ON according to the signal level.

- TUNING

8 pin of IC201 becomes low level when tuned and the tuned indicator D366 connected there turns ON.

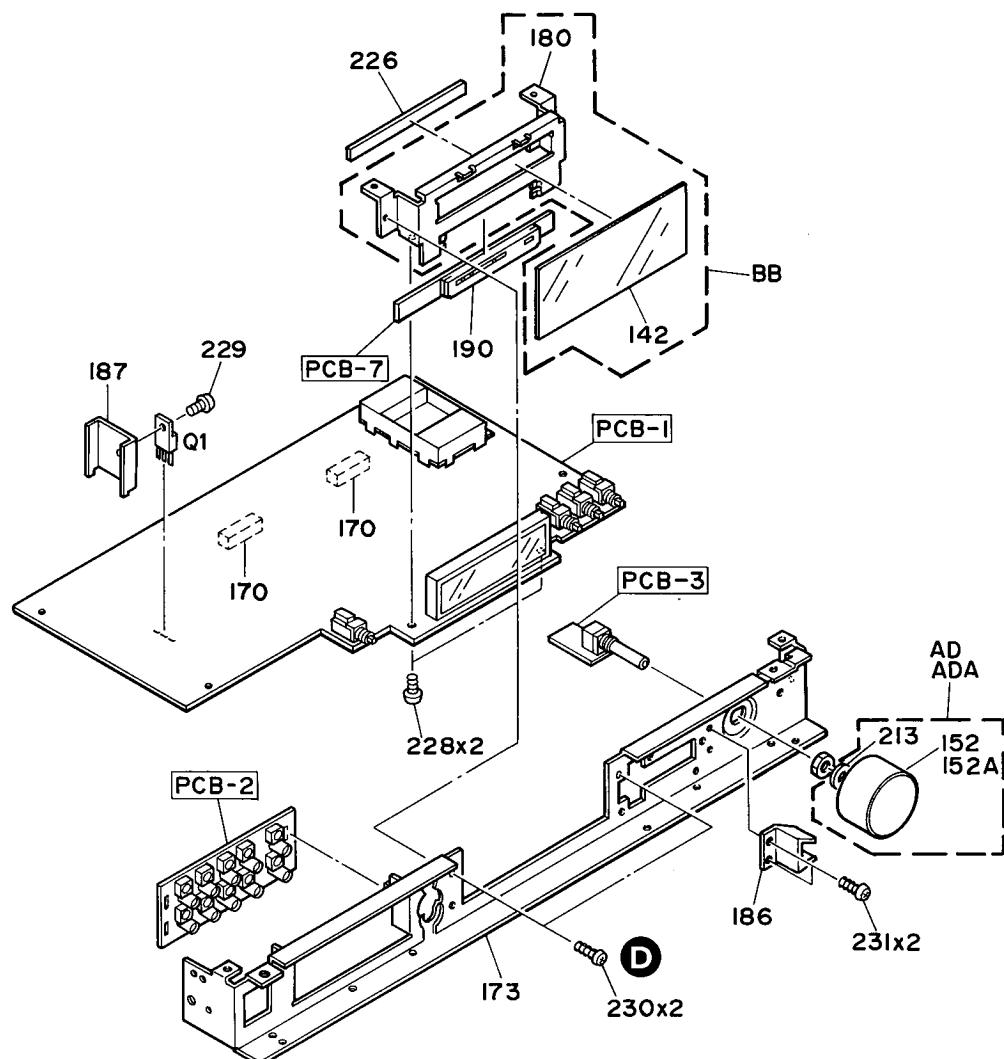
BLOCK DIAGRAM



A B C D E

GENERAL UNIT

EXPLODED VIEW (FRONT CHASSIS)

**PARTS LIST**

Ref. No.	Part No.	Description
AD	A630-TU920A	ROTARY KNOB ASS'Y
ADA	A630-TU920B	ROTARY KNOB ASS'Y
BB	B219-TU920A	METAL FITTG ASS'Y
142	I531-09401	WINDOW
152	I630-03401	ROTARY KNOB
152A	I630-03402	ROTARY KNOB
170	2112-11787	SPONGE
173	2211-7278	CHASSIS
180	2219-8001	METAL FITTG
186	2219-8128	METAL FITTG
187	2222-7197	HEAT SINK
190	2240-7317	HOLDER
213	2651-110518	SPRING
226	2111-11160	FELT
228	2327-R0130062	SCREW
229	2327-R0130082	SCREW
230	2347-R0130062	SCREW
231	2347-R0130062	SCREW
Q1	5614-1666(R)	TRANSISTOR

A B C D E

GENERAL UNIT

EXPLODED VIEW

1

2

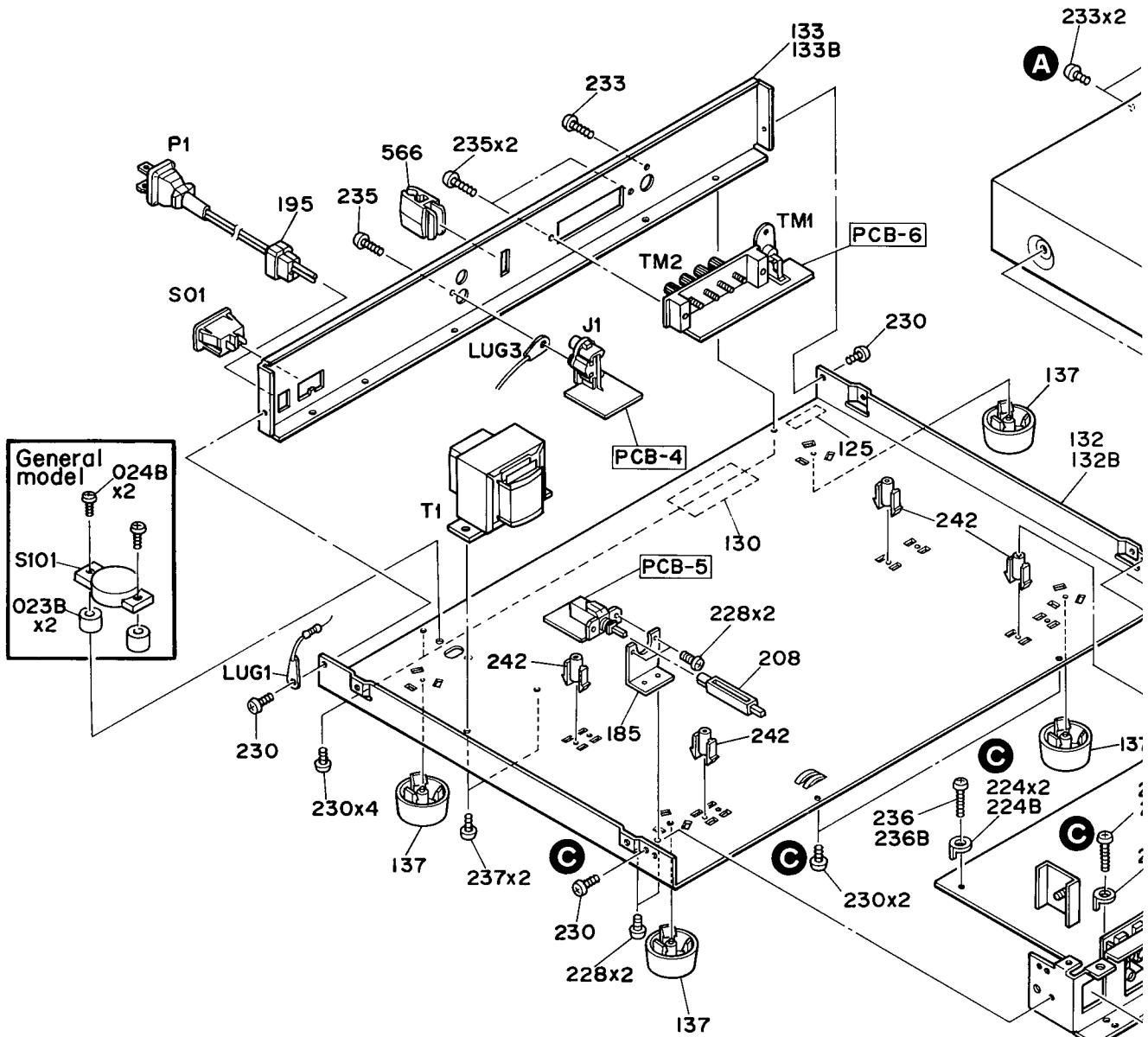
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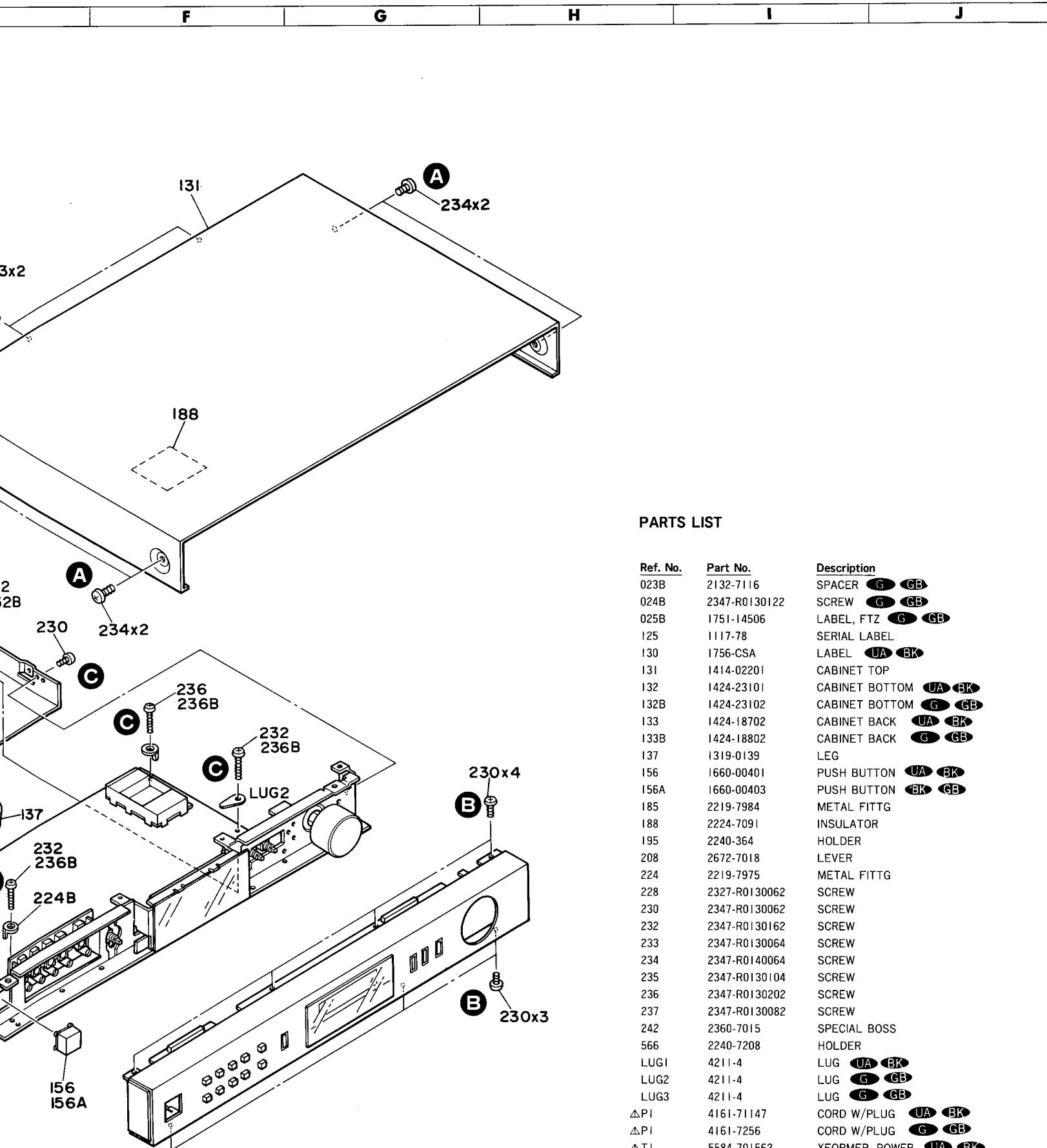
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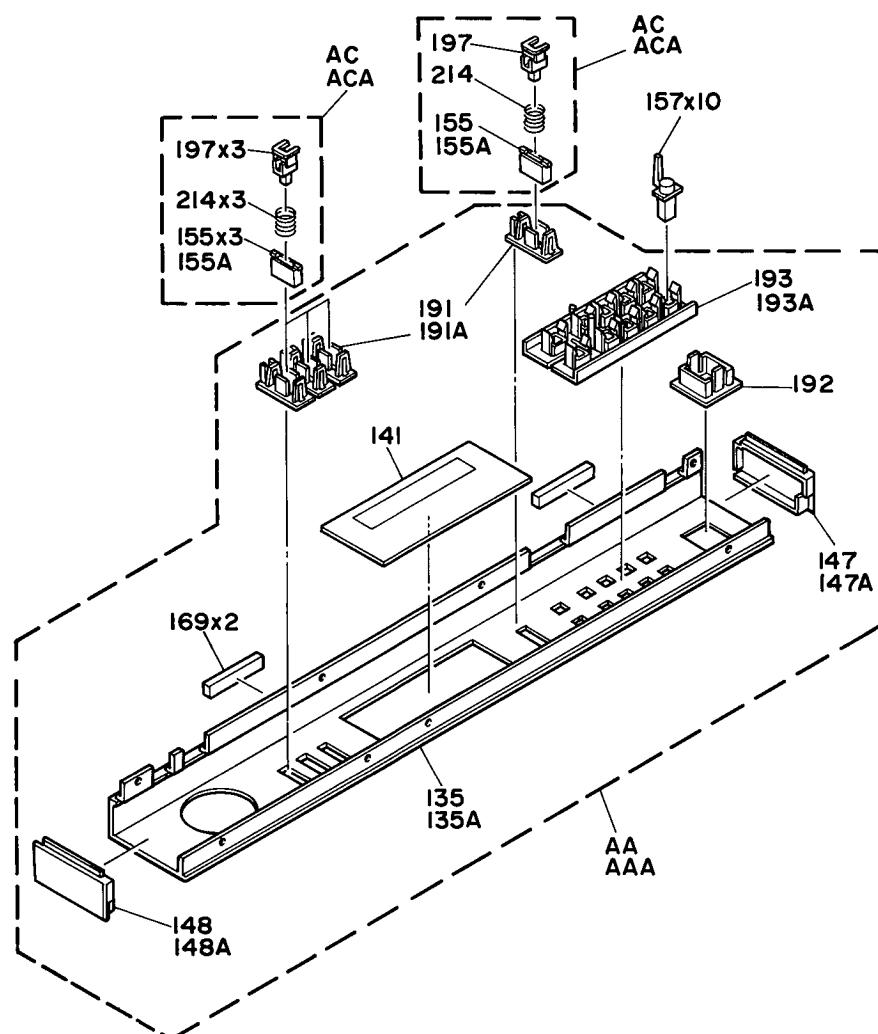
PARTS LIST

Ref. No.	Part No.	Description
023B	2132-7116	SPACER G GB
024B	2347-R0130122	SCREW G GB
025B	1751-14506	LABEL, FTZ G GB
I25	1117-78	SERIAL LABEL
I30	1756-CSA	LABEL UA BK
I31	1414-02201	CABINET TOP
I32	1424-23101	CABINET BOTTOM UA BK
I32B	1424-23102	CABINET BOTTOM G GB
I33	1424-18702	CABINET BACK UA BK
I33B	1424-18802	CABINET BACK G GB
I37	1319-0139	LEG
I56	1660-00401	PUSH BUTTON UA BK
I56A	1660-00403	PUSH BUTTON BK GB
I85	2219-7984	METAL FITTG
I88	2224-7091	INSULATOR
I95	2240-364	HOLDER
I208	2672-7018	LEVER
I224	2219-7975	METAL FITTG
I228	2327-R0130062	SCREW
I230	2347-R0130062	SCREW
I232	2347-R0130162	SCREW
I233	2347-R0130064	SCREW
I234	2347-R0140064	SCREW
I235	2347-R0130104	SCREW
I236	2347-R0130202	SCREW
I237	2347-R0130082	SCREW
I242	2360-7015	SPECIAL BOSS
I566	2240-7208	HOLDER
LUG1	4211-4	LUG UA BK
LUG2	4211-4	LUG G GB
LUG3	4211-4	LUG G GB
△P1	4161-71147	CORD W/PLUG UA BK
△P1	4161-7256	CORD W/PLUG G GB
△T1	5584-701562	XFORMER, POWER UA BK
△T1	5584-702562	XFORMER, POWER G GB
△S101	4411-I02729	ROTARY SWITCH G GB
△S01	4474-164	SOCKET, AC OUTLET UA BK
J1	4482-0133	PIN JACK, 2P
TMI	4214-166	TERMINAL UA BK
TMI	4214-167	TERMINAL G GB
TM2	4214-164	TERMINAL

A B C D E

GENERAL UNIT

EXPLODED VIEW (FRONT PANEL ASS'Y)

**PARTS LIST**

Ref. No.	Part No.	Description
AA	A443-TU920A	FRONT PANEL ASS'Y U G
AAA	A430-TU920B	FRONT PANEL ASS'Y BK GB
AC	A662-TU920A	PUSH BUTTON ASS'Y
I35	I443-11001	PANEL U G
I35A	I443-11002	PANEL BK GB
I41	I531-07003	WINDOW
I47	I562-02501	FRAME L U G
I47A	I562-02502	FRAME L BK GB
I48	I562-02601	FRAME R U G
I48A	I562-02602	FRAME R BK GB
I55	I662-34201VN	PUSH BUTTON U G
I55A	I662-34202	PUSH BUTTON BK GB
I57	I662-26701	PUSH BUTTON
I69	2112-11762	Sponge
I91	2240-7144	HOLDER U G
I91A	2240-7275	HOLDER BK GB
I92	2240-7209	HOLDER
I93	2240-7226	HOLDER U G
I93A	2240-7260	HOLDER BK GB
I97	2601-7075	SHAFT
214	2651-210190	SPRING

A | **B** | **C** | **D** | **E**

P. C. BOARDS

1

2

3

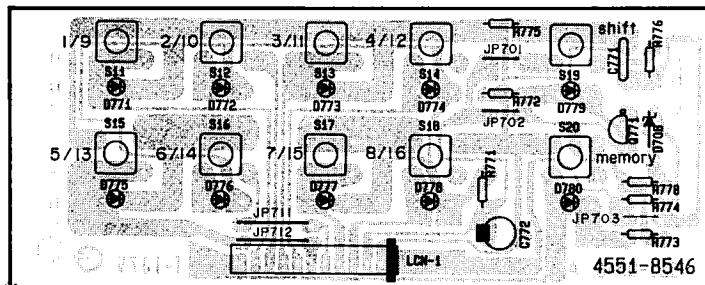
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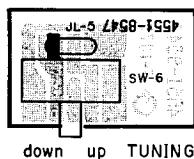
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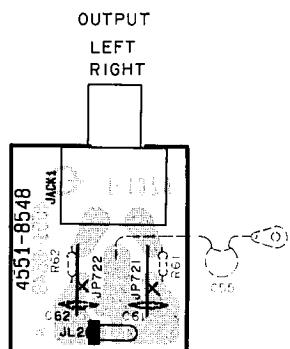
PCB-2 Preset Switches P. C. Board



PCB-3 Tuning Switch P. C. Board



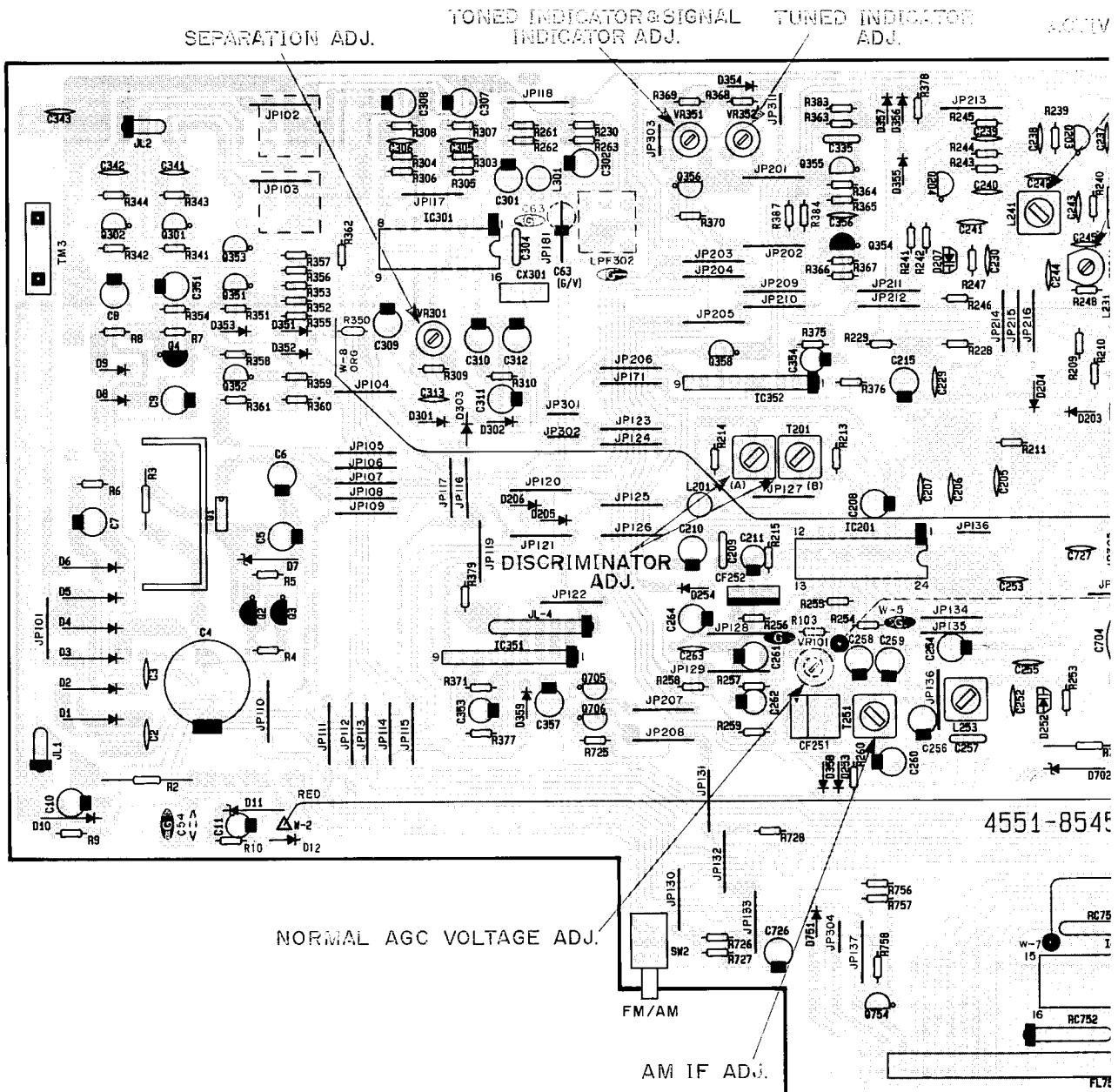
PCB-4 Output Jack P. C. Board



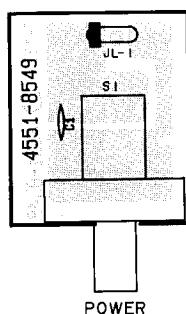
A B C D E

P. C. BOARDS

PCB-1 Main P. C. Board



PCB-5 Power Switch P. C. Board



PCI

F

G

H

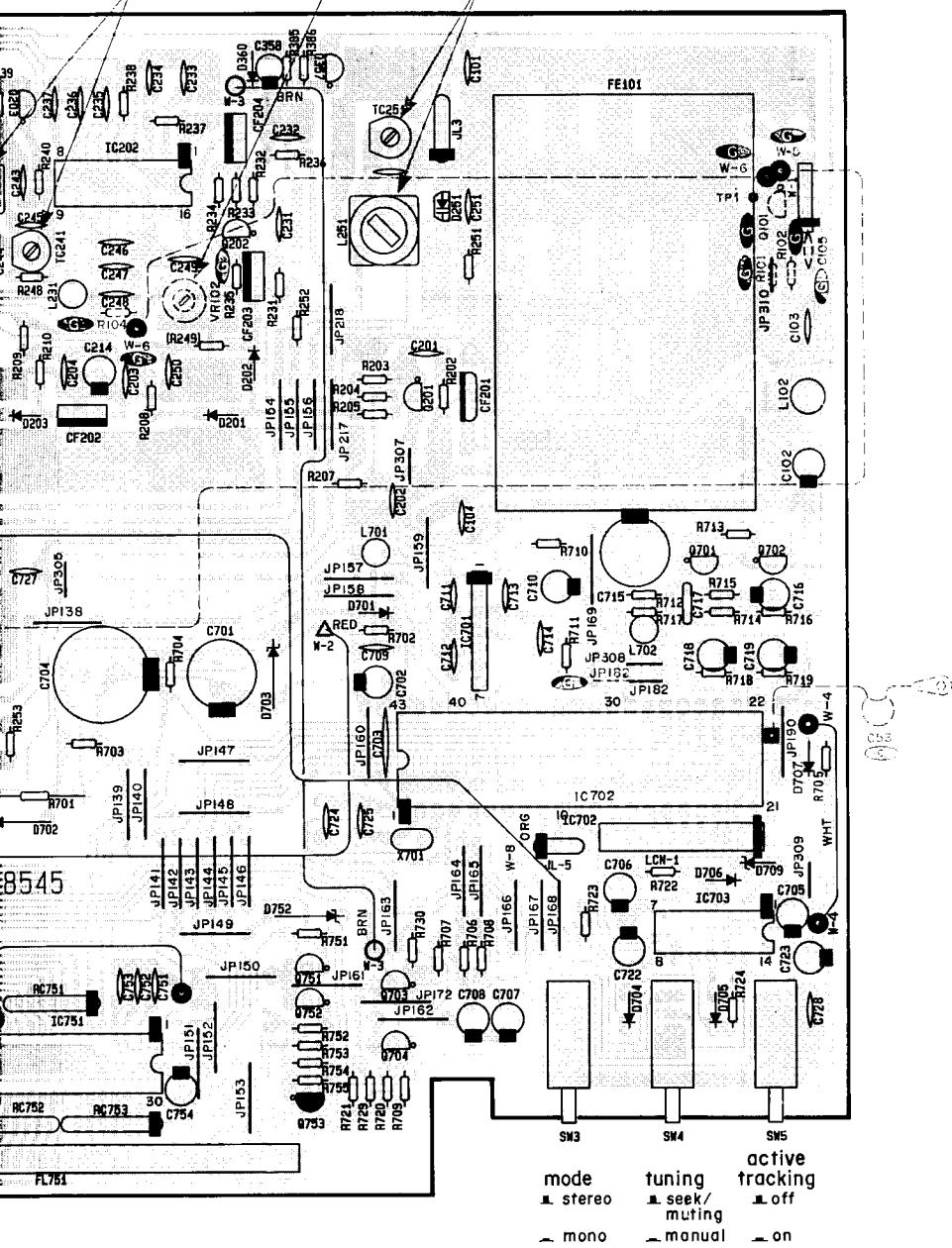
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J

ACTIVE TRACKING AGC VOLTAGE ADJ.

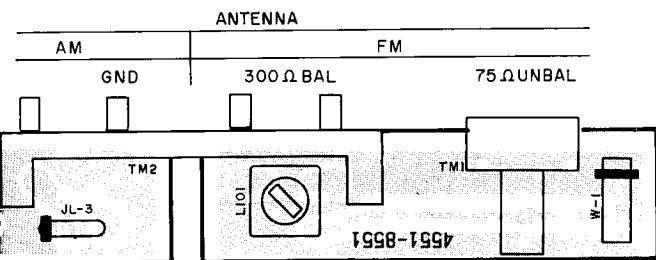
ACTIVE TRACKING ADJ.

AM TRACKING ADJ.



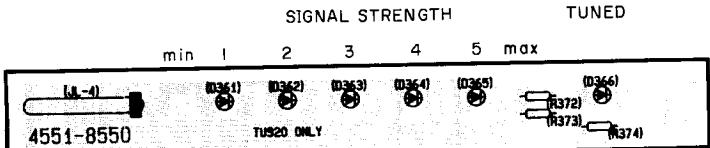
PCB-6

Antenna Terminal P. C. Board



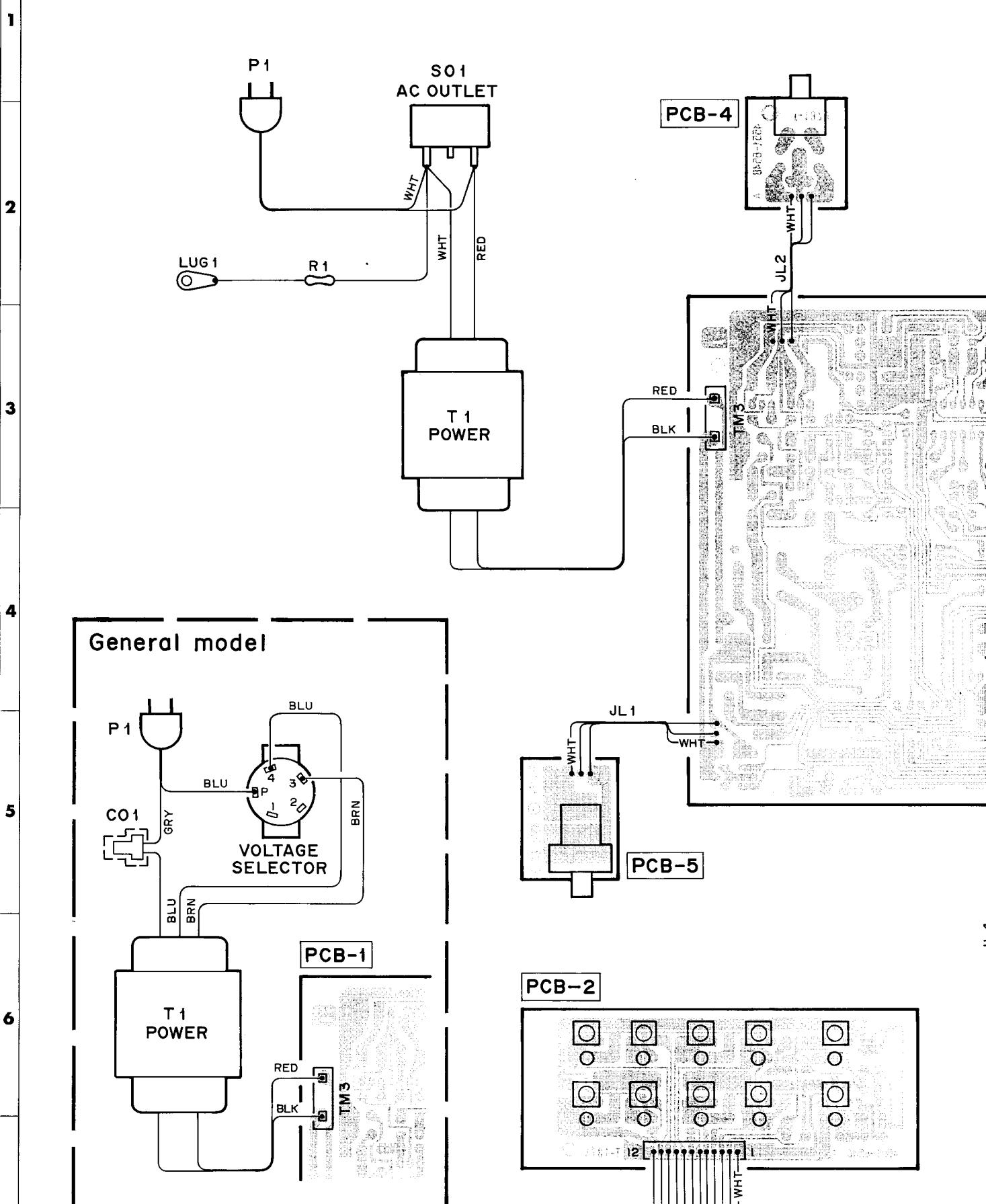
PCB-7

Indicators P. C. Board

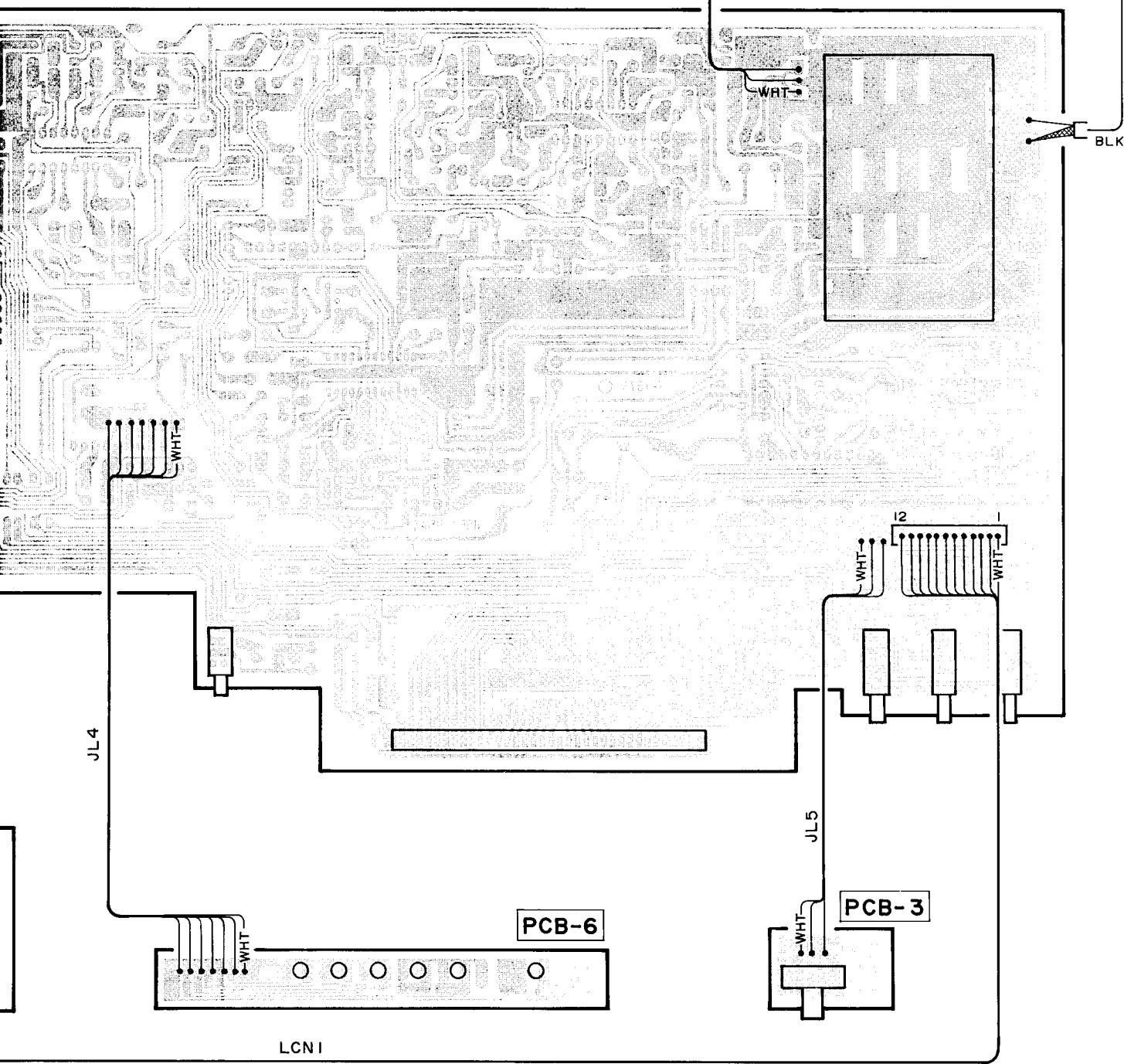


A B C D E

WIRING DIAGRAM



E F G H I J



WIRE COLOR ABBREVIATIONS

Red	: RED	YEL	: Yellow
ORG	: Orange	PUP	: Purple
BLU	: Blue	PIK	: Pink
WHT	: White	GRY	: Gray
GRN	: Green	BRN	: Brown
BLK	: Black		

Ser. No.	Ref. No.	Part No.	Description	Ser. No.	Ref. No.	Part No.	Description
PCB-I MAIN P. C. BOARD							
CAPACITORS							
786	C1	5361-473ZF	CAP, CER .047μ	637	C305	5361-471KB	CAP, CER 470p
786	C2	5361-473ZF	CAP, CER .047μ	637B	C305	5361-271KB	CAP, CER 270p  
786	C3	5361-473ZF	CAP, CER .047μ	637	C306	5361-471KB	CAP, CER 470p
779	C4	5345-228D04I	CAP, MINI ELE 2200μ/25V	637B	C306	5361-271KB	CAP, CER 270p  
780	C5	5345-476C04I	CAP, MINI ELE 47μ/16V	631	C307	5345-225F04I	CAP, MINI ELE 2.2μ/50V
780	C6	5345-476C04I	CAP, MINI ELE 47μ/16V	631	C308	5345-225F04I	CAP, MINI ELE 2.2μ/50V
784	C7	5345-106D04I	CAP, MINI ELE 10μ/25V	631	C309	5345-225F04I	CAP, MINI ELE 2.2μ/50V
782	C8	5345-475D04I	CAP, MINI ELE 4.7μ/25V	633	C310	5345-224F0952	CAP, MINI ELE .22μ/50V
783	C9	5345-107D04I	CAP, MINI ELE 100μ/25V	634	C311	5345-106C04I	CAP, MINI ELE 10μ/16V
784	C10	5345-106D04I	CAP, MINI ELE 10μ/25V	632	C312	5345-474F0952	CAP, MINI ELE .47μ/50V
784	C11	5345-106D04I	CAP, MINI ELE 10μ/25V	639	C313	5361-101KB	CAP, CER 100p
042B	C53	5361-223ZF	CAP, CER .022μ  	679	C335	5354-104593	CAP, MYL .1μ
042B	C54	5361-223ZF	CAP, CER .022μ  	636	C341	5361-472KB	CAP, CER 4700p
058B	C63	5345-226C04I	CAP, MINI ELE 22μ/16V  	636	C342	5361-472KB	CAP, CER 4700p
508	C101	5361-473ZF	CAP, CER .047μ	677	C343	5361-223ZF	CAP, CER .022μ
505	C102	5345-476C04I	CAP, MINI ELE 47μ/16V	658	C351	5345-474F04I	CAP, MINI ELE .47μ/50V
507	C103	5361-223ZF	CAP, CER .022μ	660	C357	5345-106C04I	CAP, MINI ELE 10μ/16V
509	C104	5361-150KSL	CAP, CER 15p	661	C358	5345-226C04I	CAP, MINI ELE 22μ/16V
053B	C105	5361-473ZF	CAP, CER .047μ  	694	C701	5345-107B04I	CAP, MINI ELE 100μ/10V
542	C201	5361-223ZF	CAP, CER .022μ	695	C702	5345-476B04I	CAP, MINI ELE 47μ/10V
542	C202	5361-223ZF	CAP, CER .022μ	709	C703	5361-223N913	CAP, CER .022μ
542	C203	5361-223ZF	CAP, CER .022μ	693	C704	5345-228A04I	CAP, MINI ELE 2200μ/6.3V
542	C204	5361-223ZF	CAP, CER .022μ	697	C705	5345-225F04I	CAP, MINI ELE 2.2μ/50V
543	C205	5361-103ZF	CAP, CER .01μ	697	C706	5345-225F04I	CAP, MINI ELE 2.2μ/50V
542	C206	5361-223ZF	CAP, CER .022μ	700	C707	5345-105F04I	CAP, MINI ELE 1μ/50V
542	C207	5361-223ZF	CAP, CER .022μ	700	C708	5345-105F04I	CAP, MINI ELE 1μ/50V
539	C208	5345-106C04I	CAP, MINI ELE 10μ/16V	704	C709	5361-103ZF	CAP, CER .01μ
544	C209	5361-101KB	CAP, CER 100p	695	C710	5345-476B04I	CAP, MINI ELE 47μ/10V
544B	C209	5361-271KB	CAP, CER 270p  	702	C711	5361-223ZF	CAP, CER .022μ
539	C210	5345-106C04I	CAP, MINI ELE 10μ/16V	710	C712	5361-222KB	CAP, CER 2200p
540	C211	5345-105F04I	CAP, MINI ELE 1μ/50V	703	C713	5361-220KSL	CAP, CER 22p
558	C214	5345-225F04I	CAP, MINI ELE 2.2μ/50V	704	C714	5361-103ZF	CAP, CER .01μ
557	C215	5345-476C04I	CAP, MINI ELE 47μ/16V	696	C715	5345-227C04I	CAP, MINI ELE 220μ/16V
601	C229	5361-223ZF	CAP, CER .022μ	698	C716	5345-334F0951	CAP, MINI ELE .33μ/50V
606	C230	5361-103ZF	CAP, CER .01μ	708	C717	5354-473K1HM	CAP, MYL .047μ
601	C231	5361-223ZF	CAP, CER .022μ	697	C718	5345-225F04I	CAP, MINI ELE 2.2μ/50V
601	C232	5361-223ZF	CAP, CER .022μ	697	C719	5345-225F04I	CAP, MINI ELE 2.2μ/50V
601	C233	5361-223ZF	CAP, CER .022μ	699	C722	5345-474F04I	CAP, MINI ELE .47μ/50V
601	C234	5361-223ZF	CAP, CER .022μ	699	C723	5345-474F04I	CAP, MINI ELE .47μ/50V
602	C235	5361-101KB	CAP, CER 100p	705	C724	5361-470JCH	CAP, CER 47p
602	C236	5361-101KB	CAP, CER 100p	705	C725	5361-470JCH	CAP, CER 47p
603	C237	5361-473ZF	CAP, CER .047μ	699	C726	5345-474F04I	CAP, MINI ELE .47μ/50V
604	C238	5361-472KB	CAP, CER 4700p	702	C727	5361-223ZF	CAP, CER .022μ
601	C239	5361-223ZF	CAP, CER .022μ	704	C728	5361-103ZF	CAP, CER .01μ
608	C240	5361-150JPH	CAP, CER 15p	752	C751	5361-472KB	CAP, CER 4700p
606	C241	5361-103ZF	CAP, CER .01μ	752	C752	5361-472KB	CAP, CER 4700p
607	C242	5361-180JRH	CAP, CER 18p	752	C753	5361-472KB	CAP, CER 4700p
603	C243	5361-473ZF	CAP, CER .047μ	750	C754	5345-106C04I	CAP, MINI ELE 10μ/16V
606	C244	5361-103ZF	CAP, CER .01μ				RESISTORS
605	C245	5361-221KB	CAP, CER 220p	788	R2	5171-820593	RES, MTL I 82
606	C246	5361-103ZF	CAP, CER .01μ	793	△R3	5102-2R25116F	RES, FUSE 2.2
601	C247	5361-223ZF	CAP, CER .022μ	791	R4	5232-101J16P	RES, CBN I/6P 100
601	C248	5361-223ZF	CAP, CER .022μ	790	R5	5232-223J16P	RES, CBN I/6P 22K
606	C249	5361-103ZF	CAP, CER .01μ	789	R6	5232-682J16P	RES, CBN I/6P 6.8K
601	C250	5361-223ZF	CAP, CER .022μ	795	R7	5232-223J16P	RES, CBN I/6P 22K
577	C251	5361-473ZF	CAP, CER .047μ	796	R8	5232-473J16P	RES, CBN I/6P 47K
580	C252	5361-220JPH	CAP, CER 22p	787	R9	5232-152J16P	RES, CBN I/6P 1.5K
577	C253	5361-473ZF	CAP, CER .047μ	794	R10	5232-102J16P	RES, CBN I/6P 1K
572	C254	5345-106C04I	CAP, MINI ELE 10μ/16V	059B	R63	5232-102J16P	RES, CBN I/6P 1K  
578	C255	5361-103ZF	CAP, CER .01μ	050B	R101	5232-473J16P	RES, CBN I/6P 47K  
575	C257	5359-471585I	CAP, PPP 470p	051B	R102	5232-104J16P	RES, CBN I/6P 100K  
571	C258	5345-475D04I	CAP, MINI ELE 4.7μ/25V	051B	R103	5232-563J16P	RES, CBN I/6P 56K  
571	C259	5345-475D04I	CAP, MINI ELE 4.7μ/25V	054B	R104	5232-563J16P	RES, CBN I/6P 56K  
572	C260	5345-106C04I	CAP, MINI ELE 10μ/16V	545	R201	5232-391J16P	RES, CBN I/6P 390
573	C261	5345-105F04I	CAP, MINI ELE 1μ/50V	546	R202	5232-471J16P	RES, CBN I/6P 470
572	C262	5345-106C04I	CAP, MINI ELE 10μ/16V	547	R203	5232-154J16P	RES, CBN I/6P 150K
579	C263	5361-472KB	CAP, CER 4700p	545	R204	5232-391J16P	RES, CBN I/6P 390
574	C264	5345-224D04I	CAP, MINI ELE .22μ/25V	548	R205	5232-101J16P	RES, CBN I/6P 100
630	C301	5345-476C04I	CAP, MINI ELE 47μ/16V	551	R207	5232-102J16P	RES, CBN I/6P 1K
629	C302	5345-226C0952	CAP, MINI ELE 22μ/16V	609	R208	5232-222J16P	RES, CBN I/6P 2.2K
640	C304	5354-473K1HM	CAP, MYL .047μ	610	R209	5232-331J16P	RES, CBN I/6P 330

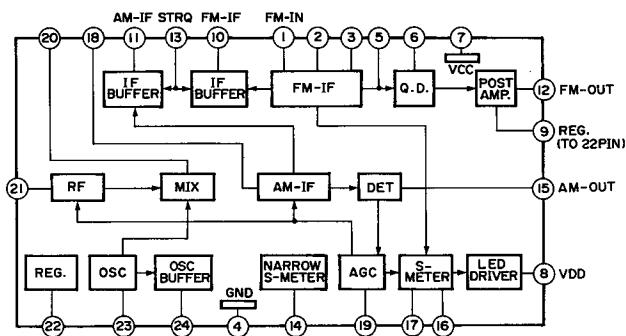
Ser. No.	Ref. No.	Part No.	Description	Ser. No.	Ref. No.	Part No.	Description
609	R210	5232-222J16P	RES, CBN I/6P 2.2K	664	R366	5232-223J16P	RES, CBN I/6P 22K
555	R211	5232-222J16P	RES, CBN I/6P 2.2K	664	R367	5232-223J16P	RES, CBN I/6P 22K
552	R212	5232-680J16P	RES, CBN I/6P 68	676	R368	5232-683J16P	RES, CBN I/6P 68K
553	R213	5232-103J16P	RES, CBN I/6P 10K	676B	R368	5232-104J16P	RES, CBN I/6P 100K
549	R214	5232-332J16P	RES, CBN I/6P 3.3K	675	R369	5232-563J16P	RES, CBN I/6P 56K
554	R215	5232-223J16P	RES, CBN I/6P 22K	675B	R369	5232-154J16P	RES, CBN I/6P 150K
554B	R215	5232-333J16P	RES, CBN I/6P 33K	664	R370	5232-223J16P	RES, CBN I/6P 22K
609	R228	5232-222J16P	RES, CBN I/6P 2.2K	663	R371	5232-103J16P	RES, CBN I/6P 10K
620	R229	5232-332J16P	RES, CBN I/6P 3.3K	666	R375	5232-104J16P	RES, CBN I/6P 100K
646	R230	5232-472J16P	RES, CBN I/6P 4.7K	666	R376	5232-104J16P	RES, CBN I/6P 100K
610	R231	5232-331J16P	RES, CBN I/6P 330	668	R377	5232-153J16P	RES, CBN I/6P 15K
611	R232	5232-154J16P	RES, CBN I/6P 150K	680	R378	5232-471J16P	RES, CBN I/6P 470
612	R233	5232-391J16P	RES, CBN I/6P 390	680B	R378	5232-392J16P	RES, CBN I/6P 3.9K
613	R234	5232-101J16P	RES, CBN I/6P 100	665	R379	5232-472J16P	RES, CBN I/6P 4.7K
552	R235	5232-680J16P	RES, CBN I/6P 68	674	R383	5232-222J16P	RES, CBN I/6P 2.2K
614	R236	5232-102J16P	RES, CBN I/6P 1K	674	R384	5232-222J16P	RES, CBN I/6P 2.2K
615	R237	5232-471J16P	RES, CBN I/6P 470	667	R385	5232-183J16P	RES, CBN I/6P 18K
617	R238	5232-562J16P	RES, CBN I/6P 5.6K	669	R386	5232-222J16P	RES, CBN I/6P 2.2K
614	R239	5232-102J16P	RES, CBN I/6P 1K	674	R387	5232-222J16P	RES, CBN I/6P 2.2K
616	R240	5232-223J16P	RES, CBN I/6P 22K	711	R701	5171-151593	RES, MTL I 150
619	R241	5232-472J16P	RES, CBN I/6P 4.7K	713	R702	5232-471J16P	RES, CBN I/6P 470
618	R242	5232-104J16P	RES, CBN I/6P 100K	714	R703	5232-103J16P	RES, CBN I/6P 10K
610	R243	5232-331J16P	RES, CBN I/6P 330	721	R704	5232-223J16P	RES, CBN I/6P 22K
614	R244	5232-102J16P	RES, CBN I/6P 1K	720	R705	5232-104J16P	RES, CBN I/6P 100K
614	R245	5232-102J16P	RES, CBN I/6P 1K	721	R706	5232-223J16P	RES, CBN I/6P 22K
616	R246	5232-223J16P	RES, CBN I/6P 22K	721	R707	5232-223J16P	RES, CBN I/6P 22K
616	R247	5232-223J16P	RES, CBN I/6P 22K	721	R708	5232-223J16P	RES, CBN I/6P 22K
614	R248	5232-102J16P	RES, CBN I/6P 1K	721	R709	5232-223J16P	RES, CBN I/6P 22K
610	R249	5232-331J16P	RES, CBN I/6P 330	712	R710	5232-102J16P	RES, CBN I/6P 1K
581	R251	5232-104J16P	RES, CBN I/6P 100K	714	R711	5232-103J16P	RES, CBN I/6P 10K
583	R252	5232-471J16P	RES, CBN I/6P 470	712	R712	5232-102J16P	RES, CBN I/6P 1K
581	R253	5232-104J16P	RES, CBN I/6P 100K	716	R713	5232-473J16P	RES, CBN I/6P 47K
584	R254	5232-103J16P	RES, CBN I/6P 10K	714	R714	5232-103J16P	RES, CBN I/6P 10K
584	R255	5232-103J16P	RES, CBN I/6P 10K	715	R715	5232-822J16P	RES, CBN I/6P 8.2K
587	R256	5232-820J16P	RES, CBN I/6P 82	712	R716	5232-102J16P	RES, CBN I/6P 1K
588	R257	5232-223J16P	RES, CBN I/6P 22K	712	R717	5232-102J16P	RES, CBN I/6P 1K
584	R258	5232-103J16P	RES, CBN I/6P 10K	717	R718	5232-273J16P	RES, CBN I/6P 27K
585	R259	5232-473J16P	RES, CBN I/6P 47K	718	R719	5232-333J16P	RES, CBN I/6P 33K
586	R260	5232-152J16P	RES, CBN I/6P 1.5K	722	R720	5232-472J16P	RES, CBN I/6P 4.7K
647	R261	5232-104J16P	RES, CBN I/6P 100K	723	R721	5232-222J16P	RES, CBN I/6P 2.2K
647	R262	5232-104J16P	RES, CBN I/6P 100K	720	R722	5232-104J16P	RES, CBN I/6P 100K
646	R263	5232-472J16P	RES, CBN I/6P 4.7K	720	R723	5232-104J16P	RES, CBN I/6P 100K
643	R303	5232-154J16P	RES, CBN I/6P 150K	720	R724	5232-104J16P	RES, CBN I/6P 100K
643B	R303	5232-184J16P	RES, CBN I/6P 180K	731	R725	5232-153J16P	RES, CBN I/6P 15K
643	R304	5232-154J16P	RES, CBN I/6P 150K	720	R726	5232-104J16P	RES, CBN I/6P 100K
643B	R304	5232-184J16P	RES, CBN I/6P 180K	720	R727	5232-104J16P	RES, CBN I/6P 100K
642	R305	5232-124J16P	RES, CBN I/6P 120K	722	R728	5232-472J16P	RES, CBN I/6P 4.7K
642B	R305	5232-154J16P	RES, CBN I/6P 150K	732	R729	5232-473J16P	RES, CBN I/6P 47K
642	R306	5232-124J16P	RES, CBN I/6P 120K	732	R730	5232-473J16P	RES, CBN I/6P 47K
642B	R306	5232-154J16P	RES, CBN I/6P 150K	755	R751	5232-223J16P	RES, CBN I/6P 22K
644	R307	5232-332J16P	RES, CBN I/6P 3.3K	756	R752	5232-105J16P	RES, CBN I/6P 1M
644	R308	5232-332J16P	RES, CBN I/6P 3.3K	754	R753	5232-473J16P	RES, CBN I/6P 47K
645	R309	5232-103J16P	RES, CBN I/6P 10K	754	R754	5232-473J16P	RES, CBN I/6P 47K
648	R310	5232-472J16P	RES, CBN I/6P 4.7K	754	R755	5232-473J16P	RES, CBN I/6P 47K
645	R341	5232-103J16P	RES, CBN I/6P 10K	757	R756	5232-103J16P	RES, CBN I/6P 10K
645	R342	5232-103J16P	RES, CBN I/6P 10K	758	R757	5232-472J16P	RES, CBN I/6P 4.7K
645	R343	5232-103J16P	RES, CBN I/6P 10K	758	R758	5232-472J16P	RES, CBN I/6P 4.7K
645	R344	5232-103J16P	RES, CBN I/6P 10K				INTEGRATED CIRCUITS
669	R350	5232-222J16P	RES, CBN I/6P 2.2K	531	IC201	5653-LA1266	IC, LINEAR
662	R351	5232-473J16P	RES, CBN I/6P 47K	591	IC202	5652-LA1235	IC, MONO
662	R352	5232-473J16P	RES, CBN I/6P 47K	621	IC301	5653-LA3410	IC, LINEAR
662	R353	5232-473J16P	RES, CBN I/6P 47K	651	IC351	5652-BA6124	IC, MONO
663	R354	5232-103J16P	RES, CBN I/6P 10K	652	IC352	5652-BA695	IC, MONO
662	R355	5232-473J16P	RES, CBN I/6P 47K	681	IC701	5654-TD6104P	IC, DIGITAL
664	R356	5232-223J16P	RES, CBN I/6P 22K	682	IC702	5654-TC9147BP	IC, DIGITAL
662	R357	5232-473J16P	RES, CBN I/6P 47K	683	IC703	5654-TC4001BP	IC, DIGITAL
672	R358	5232-473J16P	RES, CBN I/6P 47K	741	IC751	5654-TD6301AN	IC, DIGITAL
662	R359	5232-473J16P	RES, CBN I/6P 47K				TRANSISTORS
662	R360	5232-473J16P	RES, CBN I/6P 47K	771	Q1	5614-1666(R)	XISTOR, NPN A
672	R361	5232-473J16P	RES, CBN I/6P 47K	772	Q2	5611-1115(F)or(E)	XISTOR, PNP R
673	R362	5232-100J16P	RES, CBN I/6P 10	772	Q3	5611-1115(F)or(E)	XISTOR, PNP R
674	R363	5232-222J16P	RES, CBN I/6P 2.2K	772	Q4	5611-1115(F)or(E)	XISTOR, PNP R
665	R364	5232-472J16P	RES, CBN I/6P 4.7K	052B	Q101	5613-2603(F)or(E)	XISTOR, NPN R

Ser. No.	Ref. No.	Part No.	Description	Ser. No.	Ref. No.	Part No.	Description
532	Q201	5613-2058(N)	XISTOR, NPN R	503	L102	5995-2R2J107	COILS
592	Q202	5613-2058(N)	XISTOR, NPN R	537	L201	5995-2R2J107	COIL W/CORE
593	Q203	5613-2603(F)	XISTOR, NPN R	600	L231	5995-2R2J107	COIL W/CORE
592	Q204	5613-2058(N)	XISTOR, NPN R	596	L241	5922-00315	OSC COIL, 7
622	Q301	5613-2878(B)	XISTOR, NPN R	570	L251	5933-00101	COIL CASE, 10
622	Q302	5613-2878(B)	XISTOR, NPN R	564	L253	5922-00215	OSC COIL, 7
654	Q351	5613-2603(F)or(E)	XISTOR, NPN R	627	L301	5995-2R2J107	COIL W/CORE
654	Q352	5613-2603(F)or(E)	XISTOR, NPN R	691	L701	5995-2R2J107	COIL W/CORE
654	Q353	5613-2603(F)or(E)	XISTOR, NPN R	691	L702	5995-2R2J107	COIL W/CORE
654	Q354	5611-1115(F)or(E)	XISTOR, PNP R				TRANSFORMERS
654	Q355	5613-2603(F)or(E)	XISTOR, NPN R	536	T201	5572-10201	DISCRI 7
656	Q356	5613-RN1203	XISTOR, NPN R	565	T251	5552-00712	IFT, AM 7
654	Q357	5613-2603(F)or(E)	XISTOR, NPN R				CONTROLS
656	Q358	5613-RN1203	XISTOR, NPN R	055B	VR101	5101-10401937	RES, SEMI FIX 100K G GB
689	Q701	5613-2240(BL)	XISTOR, NPN R	055B	VR102	5101-10401937	RES, SEMI FIX 100K G GB
685	Q702	5613-2603(F)	XISTOR, NPN R	626	VR301	5101-10401937	RES, SEMI FIX 100K
685	Q703	5613-2603(F)	XISTOR, NPN R	534	VR351	5101-50301937	RES, SEMI FIX 50K UA BK
685	Q704	5613-2603(F)	XISTOR, NPN R	534B	VR351	5101-10401937	RES, SEMI FIX 100K G GB
684	Q705	5613-RN1203	XISTOR, NPN R	594	VR352	5101-50301937	RES, SEMI FIX 50K UA BK
684	Q706	5613-RN1203	XISTOR, NPN R	594B	VR352	5101-10401937	RES, SEMI FIX 100K G GB
747	Q751	5613-RN1203	XISTOR, NPN R				MISCELLANEOUS
746	Q752	5613-2603(F)or(E)	XISTOR, NPN R	814	S2	4431-S0602102	SWITCH, PUSH
748	Q753	5611-1115(F)or(E)	XISTOR, PNP R	815	S3	4431-S0601102	SWITCH, PUSH
747	Q754	5613-RN1203	XISTOR, NPN R	815	S4	4431-S0601102	SWITCH, PUSH
			DIODES	815	S5	4431-S0601102	SWITCH, PUSH
774	△D1	5632-S5277B-6	DIODE, RECT	690	X701	5691-00720022	XTAL, OSC
774	△D2	5632-S5277B-6	DIODE, RECT	535	CF201	5671-7120A	FILTER, CER S
774	△D3	5632-S5277B-6	DIODE, RECT	535B	CF201	5673-718A	FILTER ASST G GB
774	△D4	5632-S5277B-6	DIODE, RECT	535	CF202	5671-7120A	FILTER, CER S
774	△D5	5632-S5277B-6	DIODE, RECT	535B	CF202	5673-718A	FILTER ASST G GB
774	△D6	5632-S5277B-6	DIODE, RECT	595	CF203	5671-7142A	FILTER, CER S
776	D7	5635-HZ15-IL	DIODE, ZENER	595	CF204	5671-7142A	FILTER, CER S
775	D8	5631-ISS133	DIODE, DET	567	CF251	5671-0159	FILTER, CER S
775	D9	5631-ISS133	DIODE, DET	568	CF252	5671-7137C	FILTER, CER S
774	D10	5632-S5277B-6	DIODE, RECT	625	CX301	5693-CSB456F1	OSC, CER
777	D11	5635-HZ6B1L	DIODE, ZENER	501	FE101	6114-00101	FM TUNER
775	D12	5631-ISS133	DIODE, DET	501B	FE101	6114-00201	FM TUNER G GB
598	D201	5631-ISS133	DIODE, DET	801	FL751	5722-14	TUBE DISPLAY
598	D202	5631-ISS133	DIODE, DET	744	RC751	5212-473J0703	R COMPOSITE
598	D203	5631-ISS133	DIODE, DET	744	RC752	5212-473J0703	R COMPOSITE
598	D204	5631-ISS133	DIODE, DET	744	RC753	5212-473J0703	R COMPOSITE
556	D205	5631-ISS133	DIODE, DET	597	TC241	5371-93	TRIMMER, IP
556	D206	5631-ISS133	DIODE, DET	569	TC251	5371-93	TRIMMER, IP
599	D207	5633-ISV103	DIODE, CAP	823	TM3	4214-11033	TERMINAL
561	D251	5633-ISV149	DIODE, CAP	831	LCNI	4163-01101012	CONNECTR W/W
561	D252	5633-ISV149	DIODE, CAP	044B	LPF302	5214-86	LC COMPOSITE G GB
562	D253	5631-ISS133	DIODE, DET				PCB-2 PRESET SWITCHES P. C. BOARD
562	D254	5631-ISS133	DIODE, DET				CAPACITORS
623	D301	5631-ISS133	DIODE, DET	726	C771	5361-102KB	CAP, CER 1000p
623	D302	5631-ISS133	DIODE, DET	727	C772	5345-106C041	CAP, MINI ELE 10μ/16V
657	D351	5631-ISS133	DIODE, DET				RESISTORS
657	D352	5631-ISS133	DIODE, DET	728	R771	5232-221J16P	RES, CBN 1/6P 220
657	D353	5631-ISS133	DIODE, DET	728	R772	5232-221J16P	RES, CBN 1/6P 220
657	D354	5631-ISS133	DIODE, DET	728	R773	5232-221J16P	RES, CBN 1/6P 220
657	D355	5631-ISS133	DIODE, DET	730	R774	5232-472J16P	RES, CBN 1/6P 4.7K
657	D356	5631-ISS133	DIODE, DET	736	R775	5232-223J16P	RES, CBN 1/6P 22K
657	D357	5631-ISS133	DIODE, DET	737	R776	5232-333J16P	RES, CBN 1/6P 33K
657	D358	5631-ISS133	DIODE, DET	733	R778	5232-103J16P	RES, CBN 1/6P 10K
657	D359	5631-ISS133	DIODE, DET	724	Q771	5613-2240(BL)	TRANSISTORS
657	D360	5631-ISS133	DIODE, DET	725	D708	5635-RD4R7EB2	DIODES
688	D701	5631-ISS133	DIODE, DET	809	D771	5637-GL5NG40	DIODE, ZENER
688	D702	5635-HZ9A1L	DIODE, ZENER				LED
687	D703	5635-HZ6B1L	DIODE, ZENER				
688	D704	5631-ISS133	DIODE, DET				
688	D705	5631-ISS133	DIODE, DET				
688	D706	5631-ISS133	DIODE, DET				
688	D707	5631-ISS133	DIODE, DET				
734	D709	5635-RD4R7EB2	DIODE, ZENER				
742	D751	5631-ISS133	DIODE, DET				
743	D752	5635-HZ11A2L	DIODE, ZENER				

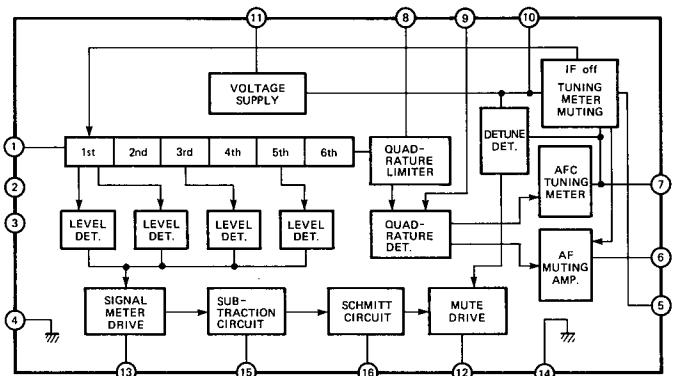
Ser. No.	Ref. No.	Part No.	Description	Ser. No.	Ref. No.	Part No.	Description
809	D772	5637-GL5NG40	LED				PCB-7 INDICATORS P. C. BOARD
809	D773	5637-GL5NG40	LED				RESISTORS
809	D774	5637-GL5NG40	LED	670	R372	5232-122J16P	RES, CBN 1/6P 1.2K
809	D775	5637-GL5NG40	LED	670	R373	5232-122J16P	RES, CBN 1/6P 1.2K
809	D776	5637-GL5NG40	LED	671	R374	5232-681J16P	RES, CBN 1/6P 680
809	D777	5637-GL5NG40	LED				DIODES
809	D778	5637-GL5NG40	LED	810	D361	5637-TLG121	LED
809	D779	5637-GL5NG40	LED	810	D362	5637-TLG121	LED
809	D780	5637-GL5NG40	LED	810	D363	5637-TLG121	LED
		MISCELLANEOUS		810	D364	5637-TLG121	LED
813	S11	4431-A017169	SWITCH, PUSH	810	D365	5637-TLG121	LED
813	S12	4431-A017169	SWITCH, PUSH	810	D366	5637-TLG121	LED
813	S13	4431-A017169	SWITCH, PUSH				MISCELLANEOUS
813	S14	4431-A017169	SWITCH, PUSH	836	JL4	4242-R0107181	JUMPER LEAD
813	S15	4431-A017169	SWITCH, PUSH				
813	S16	4431-A017169	SWITCH, PUSH				
813	S17	4431-A017169	SWITCH, PUSH				
813	S18	4431-A017169	SWITCH, PUSH				
813	S19	4431-A017169	SWITCH, PUSH				
813	S20	4431-A017169	SWITCH, PUSH				
		PCB-3 TUNING SWITCH P. C. BOARD					
816	S6	4411-1027110	SWITCH, ROTRY				
837	JL5	4242-R0103201	JUMPER LEAD				
		PCB-4 OUTPUT JACK P. C. BOARD					
		CAPACITORS					RESISTORS
041B	C55	5361-223ZF	CAP, CER .022μ				CAP, MINI ELE : Electrolytic
049B	C61	5361-101KB	CAP, CER 100p				RES, CBN 1/6P : Carbon 1/6W
049B	C62	5361-101KB	CAP, CER 100p				CAP, CER : Ceramic
		RESISTORS				CAP, PPP : Polypropylene	
048B	R61	5232-102J16P	RES, CBN 1/6P IK				CAP, MYL : Mylar
048B	R62	5232-102J16P	RES, CBN 1/6P IK				CAP, MCA : Mica
		MISCELLANEOUS				CAP, ELE BP : Electrolytic Bipolar	
827	J1	4482-0133	PIN JACK, 2P				CAP, STY : Polystyrene Film
834	JL2	4242-R0103201	JUMPER LEAD				CAP, SPE : Special
		PCB-5 POWER SWITCH P. C. BOARD				CAP, TAN : Tantalum	
812	△SI	4431-A02725	SWITCH, PUSH				470μ : 470μF
833	JL1	4242-R0103201	JUMPER LEAD				6800p : 6800pF
		PCB-6 ANTENNA TERMINAL P. C. BOARD				.047μ : 0.047μF	
511	L101	5943-00136	COIL BBN, 10				
835	JL3	4242-R0104201	JUMPER LEAD				
820	TMI	4214-166	TERMINAL				
820B	TMI	4214-167	TERMINAL				
821	TM2	4214-164	TERMINAL				
							CHASSIS MISCELLANEOUS
804	△PI	4161-71147	CORD W/PLUG				804 4161-71147 CORD W/PLUG
804B	△PI	4161-7256	CORD W/PLUG				804B 4161-7256 CORD W/PLUG
807	△TI	5584-701562	XFORMER, POWER				807 5584-701562 XFORMER, POWER
807B	△TI	5584-702562	XFORMER, POWER				807B 5584-702562 XFORMER, POWER
792	△RI	5135-335J50P	RES, CBN 1/2P 3.3M				792 5135-335J50P RES, CBN 1/2P 3.3M
045B	△S101	4411-102729	ROTARY SWITCH				045B 4411-102729 ROTARY SWITCH
046B	△CO1	4443-712	CONNECTOR				046B 4443-712 CONNECTOR
818	LUG1	4211-4	LUG				818 LUG1 4211-4 LUG
043B	LUG2	4211-4	LUG				043B LUG2 4211-4 LUG
043B	LUG3	4211-4	LUG				043B LUG3 4211-4 LUG
825	△SO1	4474-164	SOCKET, AC OUTLET				825 4474-164 SOCKET, AC OUTLET
563		5911-235	AM LOOP ANT				563 5911-235 AM LOOP ANT
803		4161-71184	CORD W/PLUG, CONNECT				803 4161-71184 CORD W/PLUG, CONNECT
805		1397-6	T FEEDER ANT				805 1397-6 T FEEDER ANT
							PACKAGE PARTS LIST
026B		1119-0135	ATTACH SHEET, FTZ				026B 1119-0135 ATTACH SHEET, FTZ
111		1221-827147	CARTON BOX				111 1221-827147 CARTON BOX
111A		1221-847147	CARTON BOX				111A 1221-847147 CARTON BOX
113		1222-7227	CUSHION				113 1222-7227 CUSHION
114		1222-7224	CUSHION				114 1222-7224 CUSHION
116		1223-R0120055	SOFT SHEET				116 1223-R0120055 SOFT SHEET
117		1241-R0123350	POLYETHYLENE BAG				117 1241-R0123350 POLYETHYLENE BAG
118		1241-R0155500	POLYETHYLENE BAG				118 1241-R0155500 POLYETHYLENE BAG
119		1241-R0115300	POLYETHYLENE BAG				119 1241-R0115300 POLYETHYLENE BAG
120		1111-J30275	OWNER GUIDE				120 1111-J30275 OWNER GUIDE
120B		1111-J30276	OWNER GUIDE				120B 1111-J30276 OWNER GUIDE
121		1111-J90195	OWNER GUIDE				121 1111-J90195 OWNER GUIDE
122		1113-717004	OWNER CARD				122 1113-717004 OWNER CARD
122B		1111-J30235	OWNER CARD, ADDENDUM SHEET				122B 1111-J30235 OWNER CARD, ADDENDUM SHEET
123		1119-047	ATTACH SHEET				123 1119-047 ATTACH SHEET

IC BLOCK DIAGRAM

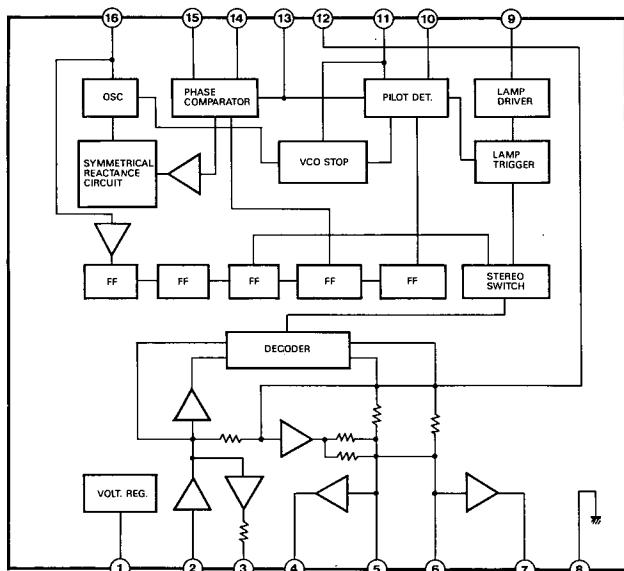
LA1266 : IC201 FM/AM IF



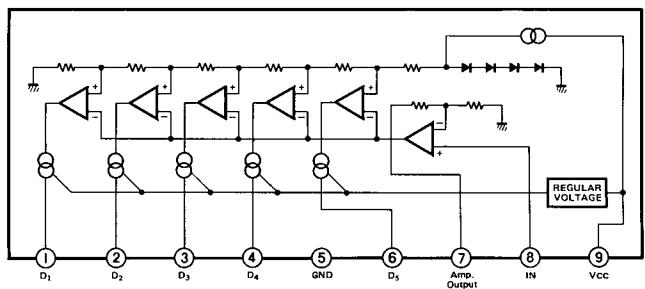
LA1235 : IC202 FM IF



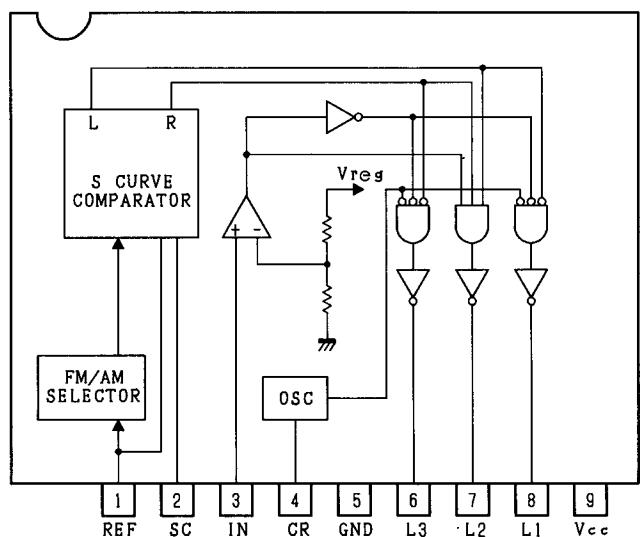
LA3410 : IC301 PLL MPX



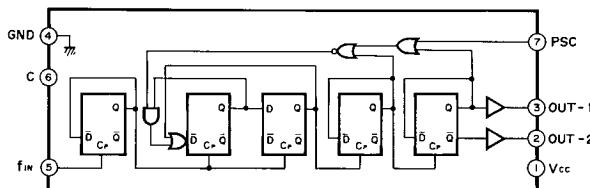
BA6124 : IC351 LEVEL METER DRIVER



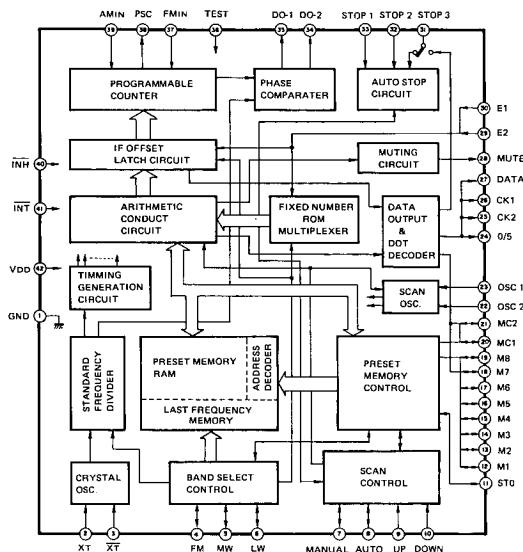
BA695 : IC352 LEVEL METER DRIVER



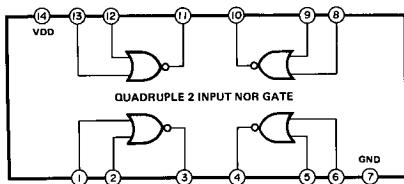
TD6104P : IC701 FM ECL PRE-SCALLER



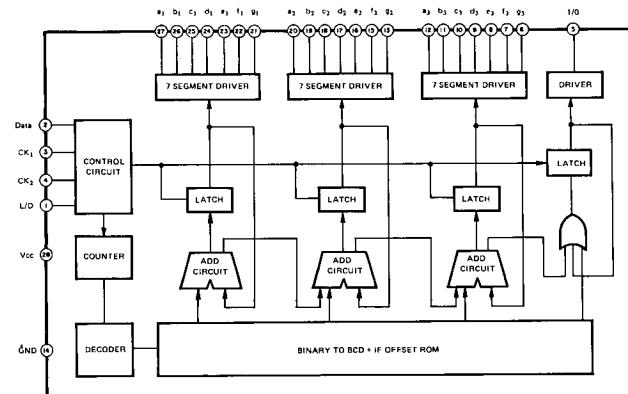
TC9147BP : IC702 DIGITAL TUNING SYSTEM LSI



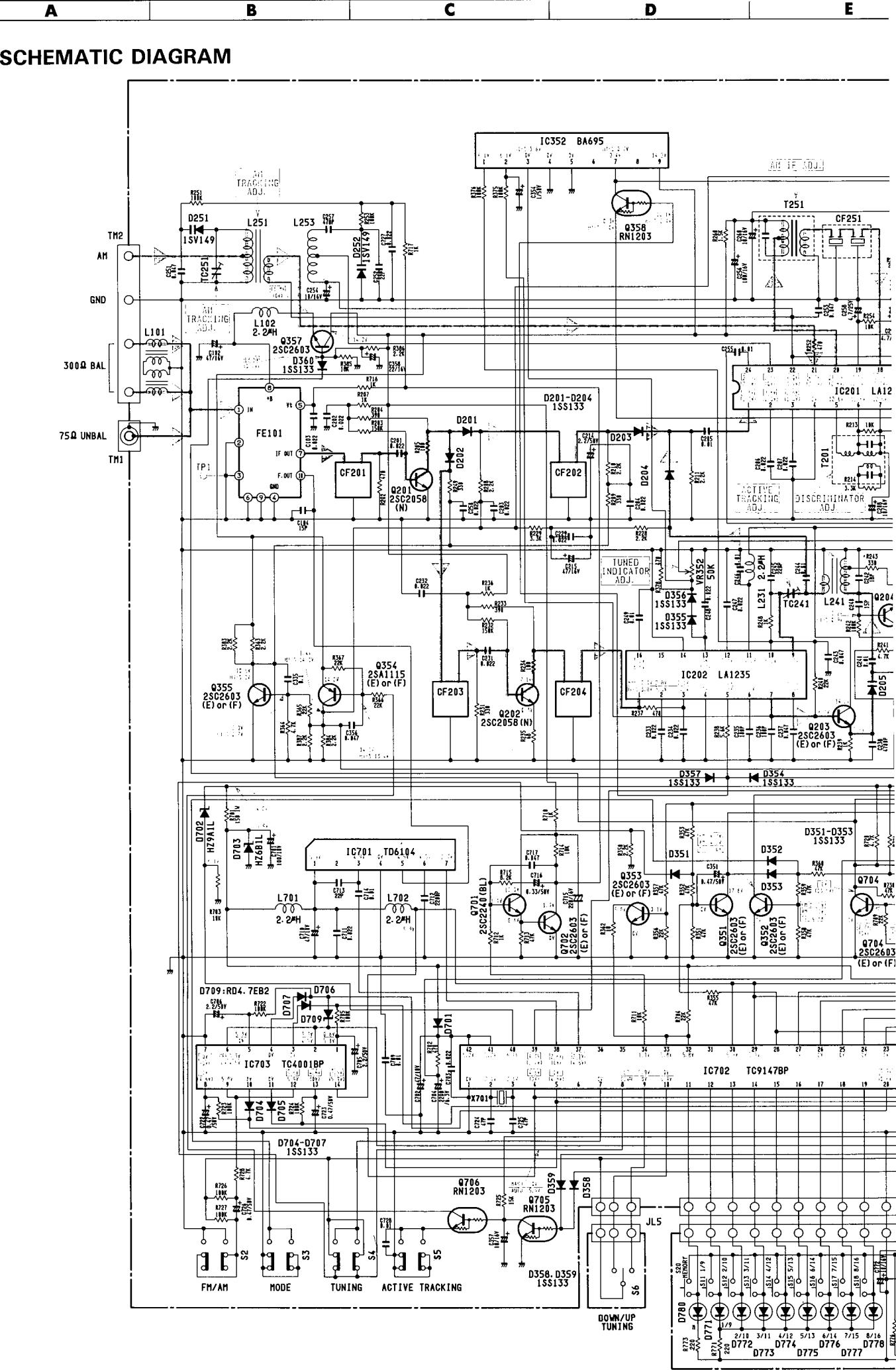
TC4001BP : IC703 QUAD 2 INPUT NOR GATE

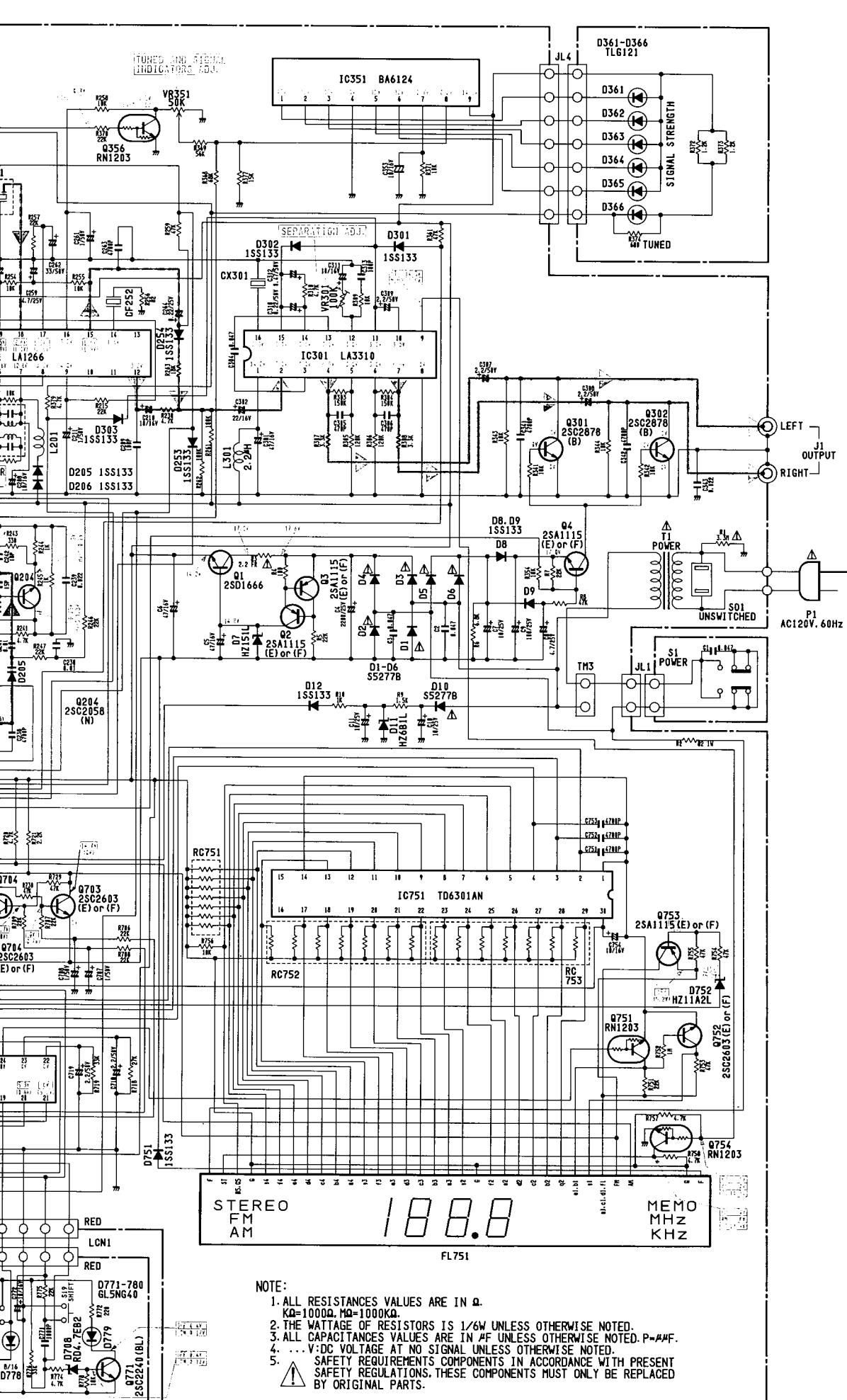


TD6301AN : IC751 LCD DRIVER



SCHEMATIC DIAGRAM





NOTE:

1. ALL RESISTANCES VALUES ARE IN Ω .
KA=10000, MA=1000KΩ.

2. THE WATTAGE OF RESISTORS IS 1/6W UNLESS OTHERWISE NOTED.

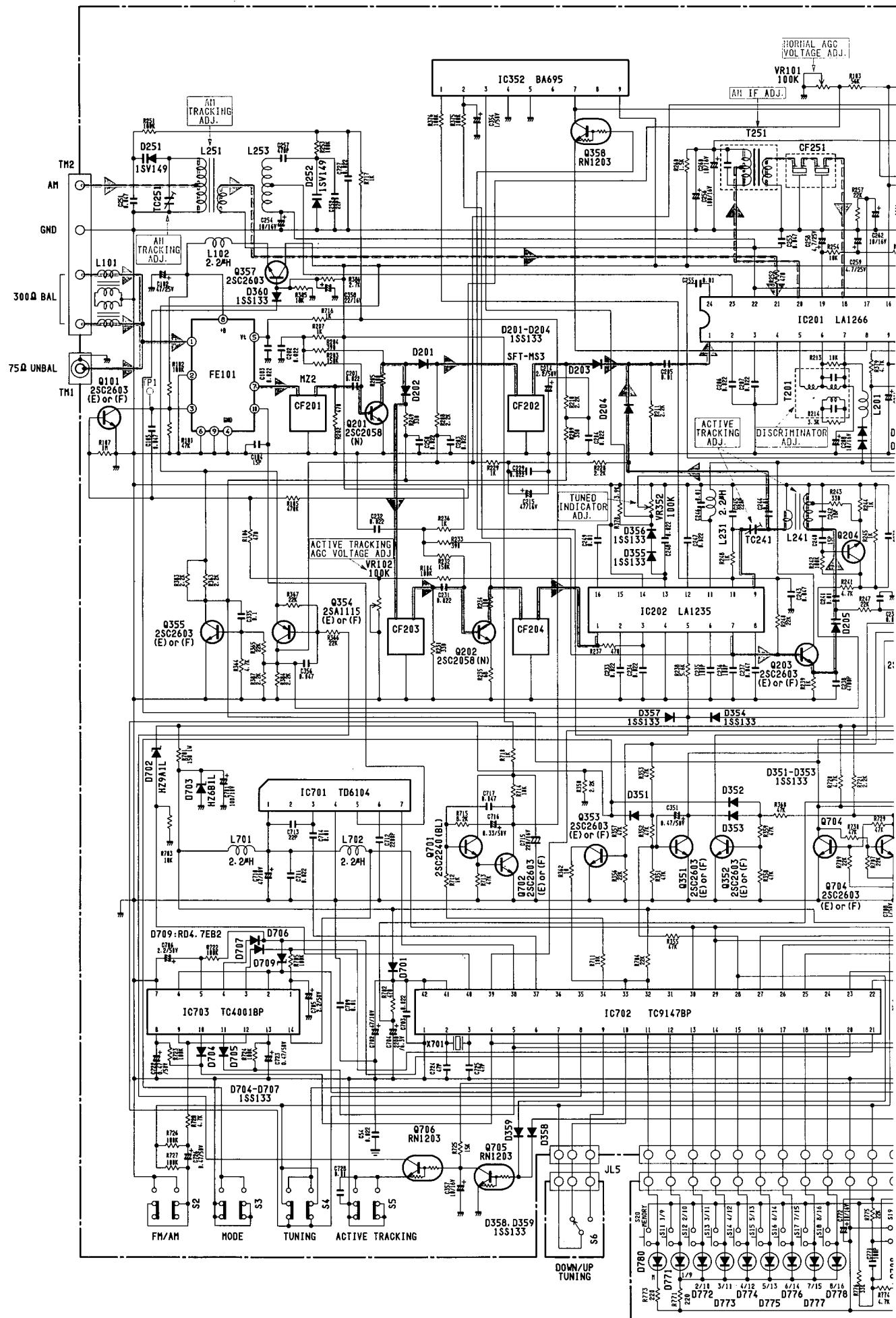
3. ALL CAPACITANCES VALUES ARE IN μF UNLESS OTHERWISE NOTED. P= $\mu A/F$.

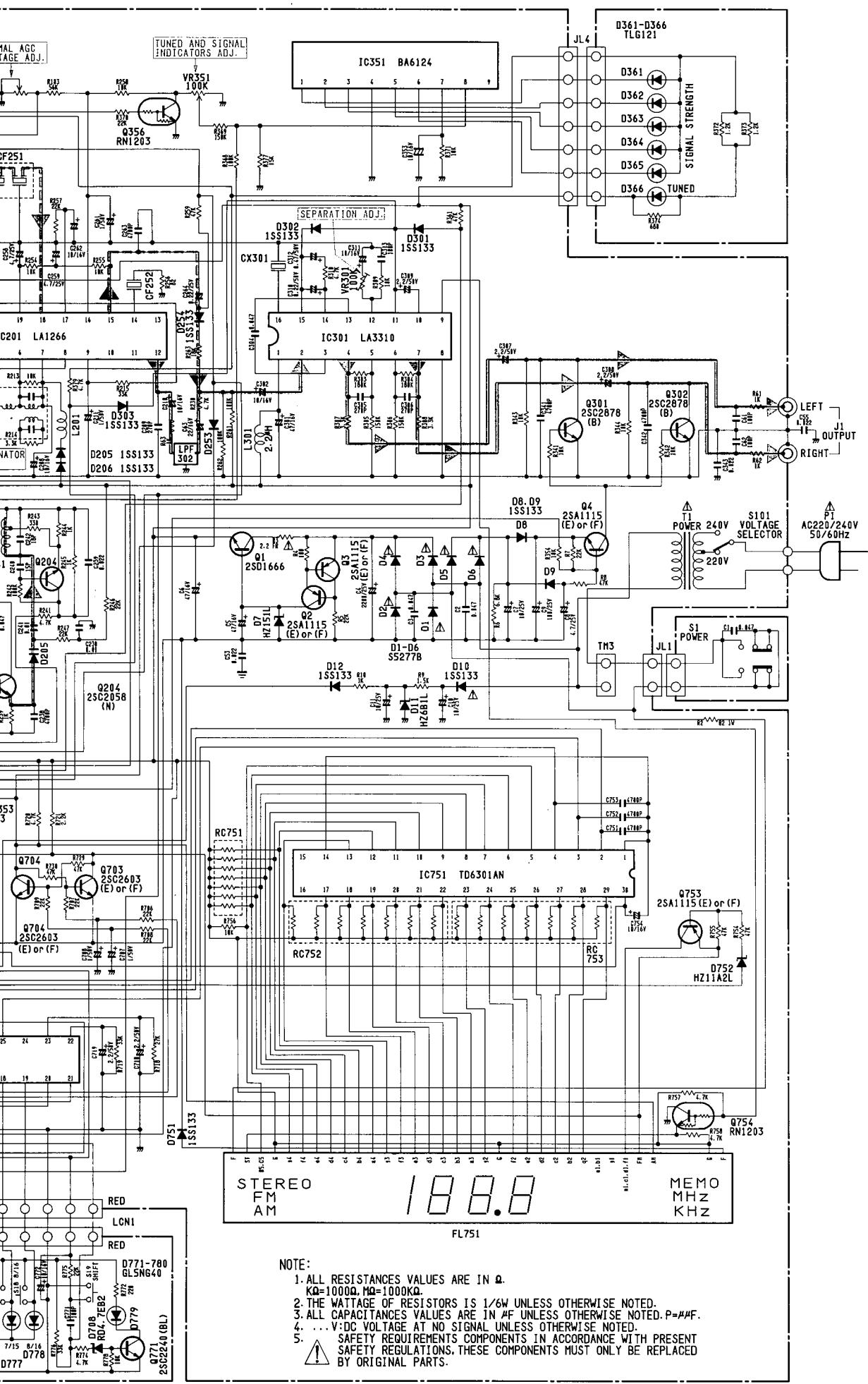
4. ...V:DC VOLTAGE AT NO SIGNAL UNLESS OTHERWISE NOTED.

5. SAFETY REQUIREMENTS COMPONENTS IN ACCORDANCE WITH PRESENT
SAFETY REGULATIONS. THESE COMPONENTS MUST ONLY BE REPLACED
BY ORIGINAL PARTS.

A B C D E

SCHEMATIC DIAGRAM (For General model)





NOTE:

- NOTE:

 - ALL RESISTANCES VALUES ARE IN Ω .
KQ=1000 Ω , MQ=1000K Ω .
 - THE WATTAGE OF RESISTORS IS 1/6W UNLESS OTHERWISE NOTED.
 - ALL CAPACITANCES VALUES ARE IN μF UNLESS OTHERWISE NOTED. P= μF
 - ...V-D_C VOLTAGE AT NO SIGNAL UNLESS OTHERWISE NOTED.
 - SAFETY REQUIREMENTS COMPONENTS IN ACCORDANCE WITH PRESENT
SAFETY REGULATIONS. THESE COMPONENTS MUST ONLY BE REPLACED
BY ORIGINAL PARTS.