

ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment.
Maintain line voltage at 117VAC. Allow a 15-minute warm-up period.
Use only enough generator output to obtain a suitable indication.

AM ALIGNMENT—SELECTOR IN AM POSITION

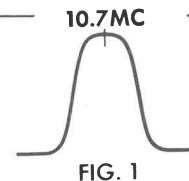
Connect generator across loop fashioned of several turns of wire. Set volume at maximum.

	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1.	455KC 400 cycle modulation	Tuning gang fully open.	Output Meter across voice coil.	T110, T107, T104, T103	Adjust for maximum. Repeat until no further improvement can be made.
2.	"	"	"	TC105	Adjust for maximum.
3.	600KC	"	"	L107	Rock tuning gang and adjust for maximum. Repeat steps 2 and 3 until no further improvement can be made.

FM IF ALIGNMENT USING AM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001mfd to junction of C110 and C111, low side to ground.

	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
4.	10.7MC Unmodulated	Point of non-interference	DC probe of VTVM to junction of VR101 and C145, common to ground	T111, T109, T106, T105, T102, T101	Adjust for maximum.
5.	"	"	DC probe of VTVM to junction of R132 and R133, common to ground	T112	Adjust for zero reading. A positive or negative reading will be obtained on either side of the correct setting.



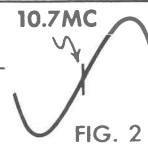
FM IF ALIGNMENT USING FM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001mfd to junction of C110 and C111, low side to ground. Use only enough marker signal for indication. Use 60 cycle frequency modulated signal with 450KC sweep. Use 60 cycle sawtooth voltage in scope for horizontal deflection.

	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
4.	10.7MC 450KC Sweep	Point of non-interference	Vert. amp of scope to junction of VR101 and C145, low side to ground.	T111, T109, T106, T105, T102, T101	Disconnect stabilizing capacitor C147. Adjust for maximum gain and symmetry of response similar to Fig. 1 with marker as shown. Reconnect C147.
5.	"	"	Vert. amp of scope to junction of R132 and R133, low side to ground.	T112	Adjust T112 Secondary to place marker at center of "S" curve similar to Fig. 2. Readjust T111 Primary for maximum amplitude and straightness of line.

FM RF ALIGNMENT—SELECTOR IN FM POSITION

Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
6. 108.5MC	High freq. end	DC probe of VTVM to junction of VR101 and C145, common to ground	C108, TC101, TC105	Adjust for maximum.
7. 90MC Unmodulated	Tune to signal.	"	L101	Rock tuning and adjust for maximum. Repeat steps 7 and 8 until no further improvement can be made.



FM STEREO MULTIPLEX ALIGNMENT USING FM STEREO SIGNAL GENERATOR

High side of generator thru 47K to point Δ , low side to ground.				
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS	
8. 19KC	Vert. amp of scope thru 47K to junct of R310 and T302, low side to ground.	T301	Adjust for maximum.	
9. "	Vert. amp of scope thru 47K to junct of D303 and D304, low side to ground.	T302	Adjust for maximum 38KC response.	
10. Modulated Left Channel	Vert. amp of scope to point Δ , low side to ground.	T304, T311	Adjust for MINIMUM. This step should require only slight adjustment.	
11. Modulated Right Channel	Vert. amp of scope to point Δ , low side to ground	T303	Check for MINIMUM. If necessary make compromise adjustment of T311.	

SEMICONDUCTORS

ITEM	PART NO.*
D101	EA2502/EA16X27
D102	EA2502/EA16X27
D103	EA2502/EA16X27
D104	EA2502/EA16X27
D105	EA2502/EA16X27
D106	EA2502/EA16X27
D107	EA2502/EA16X27
D108	EA2502/EA16X27
D110	EA2503/EA16X28
D301	EA2502/EA16X27
D302	EA2502/EA16X27
D303	EA2502/EA16X27
D304	EA2502/EA16X27
D305	EA2502/EA16X27
D306	EA2502/EA16X27
D307	EA2502/EA16X27
D501	EA2501/EA16X34
D502	EA2501/EA16X34
D503	EA2501/EA16X34
D504	EA2501/EA16X34
D505	EA2499/EA16X33
D506	EA2499/EA16X33
D507	EA2500/EA16X6
Q101	EA2812/EA15X130
Q102	EA2495/EA15X131
Q103	EA2493/EA15X132
Q104	EA2491/EA15X133
Q105	EA2496/EA15X134
Q106	EA2494/EA15X135
Q107	EA2494/EA15X135
Q301	EA2497/EA15X140
Q302	EA2497/EA15X140
Q303	EA2498/EA15X141
Q304	EA2770(N)/EA15X137
Q501	EA2489/EA15X136
Q502	EA2489/EA15X136
Q503	EA2489/EA15X136
Q504	EA2489/EA15X136
Q505	EA2490/EA15X153
Q506	EA2490/EA15X153
Q507	EA2488/EA15X160

ELECTROLYTIC/VARIABLE CAPS

ITEM	PART NO.*	VALUE
C107	EA2522/EA18X137	1mfd 15V
C147	EA2523/EA31X132	10mfd 15V
C149	EA2523/EA31X132	10mfd 15V
C150	EA2509/EA31X124	220mfd 15V
C301	EA2551/EA31X154	.47mfd 25V
C306	EA2552/EA31X153	3.3mfd 25V
C320	EA2550/EA31X146	1mfd 25V
C411	EA2509/EA31X124	220mfd 15V
C512	EA2509/EA31X124	220mfd 15V
C521	EA2510/EA31X150	4.7mfd 16V
C522	EA2510/EA31X150	4.7mfd 16V
C525	EA2509/EA31X124	220mfd 10V
C526	EA2509/EA31X124	220mfd 10V
C527		220mfd 16V
C528		220mfd 16V
C529	EA2508/EA31X151	100mfd 25V
C530	EA2508/EA31X151	100mfd 25V
C535	EA2511/EA31X149	470mfd 25V
C536	EA2511/EA31X149	470mfd 25V
C537	EA2774(N)/EA31X165(N)	220mfd 25V
C538	EA2511/EA31X149	470mfd 25V
C539	EA2506/EA31X152	1000mfd 35V
C540	EA2775(N)/EA31X166(N)	470mfd 35V
C543	EA2774(N)/EA31X165(N)	220mfd 25V
C544	EA2777(N)/EA31X168(N)	.22mfd 16V
C545	EA2506/EA31X152	1000mfd 35V
C546	EA2506/EA31X152	1000mfd 35V
C547	EA2506/EA31X152	1000mfd 35V

CONTROLS/SPECIAL RESISTORS

ITEM	PART NO.*	DESCRIPTION
VR301	EA2779(N)/EA49X144	
VR501	EA2780/EA49X143	Treble
VR502	EA2781/EA49X165	Treble
VR505 &	EA2782/EA49X142	Volume
VR506	EA2783/EA49X168(N)	Volume

General Electric A505g/h, C172g, C460g, C467g/h, G270g, G504g/h, G507g, P774g, P775g (Ch. PK170)

COILS/TRANSFORMERS

ITEM	PART NO.*
L101	EA2576/EA61X54
L102	EA2564/EA61X55
L103	EA2578/EA61X56
L104	EA2577/EA61X72
L106	EA2578/EA61X56
L107	EA2579/EA61X59
T101	EA2566/EA61X73
T102	EA2568/EA61X76
T103	EA2571/EA61X47
T104	EA2572/EA61X49
T105	EA2568/EA61X76
T106	EA2568/EA61X76
T107	EA2568/EA61X76
T108	EA2568/EA61X76
T109	EA2573/EA61X78
T110	EA2574/EA61X51
T111	EA2569/EA61X52
T112	EA2570/EA61X77
T301	EA2582/EA61X79
T302	EA2580/EA61X70
T304	EA2581/EA61X71
T401	EA2565/EA61X73
T501	EA2505/EA61X73
Power	EA2565/EA61X74
AM Ant.	EA3107

MISCELLANEOUS

NAME	PART NO.
(MODEL A505g)	
Assembly, Record Changer	RD630-2
Cartridge, Phono	EA80X234
Needle, Phono	EA80X235
Speaker, 6" Woofer	EA95X63
Speaker, 3" Tweeter	EA95X59
(MODELS A505h, G504h)	
Assembly, Record Changer	RD730-2
Cartridge, Phono	EA80X234
Needle, Phono	EA80X235
Speaker, 6" Woofer	EA95X63
Speaker, 3" Tweeter	EA95X59
Speaker, 3KC Horn	EA95X56
(MODEL C172g)	
Assembly, Record Changer	RD630-4
Cartridge, Phono	EA80X234
Needle, Phono	EA80X235
Speaker, 6" Woofer	EA95X63
Speaker, 3" Tweeter	EA95X59
Speaker, 3KC Horn	EA95X56
(MODEL C460g)	
Assembly, Record Changer	RD630-3
Cartridge, Phono	EA80X234
Needle, Phono	EA80X235
Speaker, 6" Woofer	EA95X63
Speaker, 3" Tweeter	EA95X45
(MODEL G270g)	
Assembly, Record Changer	RD730-2
Cartridge, Phono	EA80X234
Needle, Phono	EA80X235
Speaker, 6" Woofer	EA95X63
Speaker, 3" Tweeter	EA95X45
(MODELS C467g, C467h)	
Assembly, Record Changer	RD730-1
Cartridge, Phono	EA1013/EA80X234
Needle, Phono	EA1014/EA80X235
Speaker, 6" Woofer	EA8090/EA95X63
Speaker, 3" Tweeter	EA8089/EA95X45
(MODELS G504g, G507g)	
Assembly, Record Changer	RD630-2
Cartridge, Phono	EA80X234
Needle, Stylus	EA80X235
Speaker, 6" Woofer	EA95X63
Speaker, 3" Tweeter	EA95X59
Speaker, 3KC Horn	EA95X56

(MODEL P774g)

Assembly, Record Changer	RD730-4
Cartridge, Phono	EA1013
Needle, Phono	EA1014
Speaker, 6-1/2"	EA2935

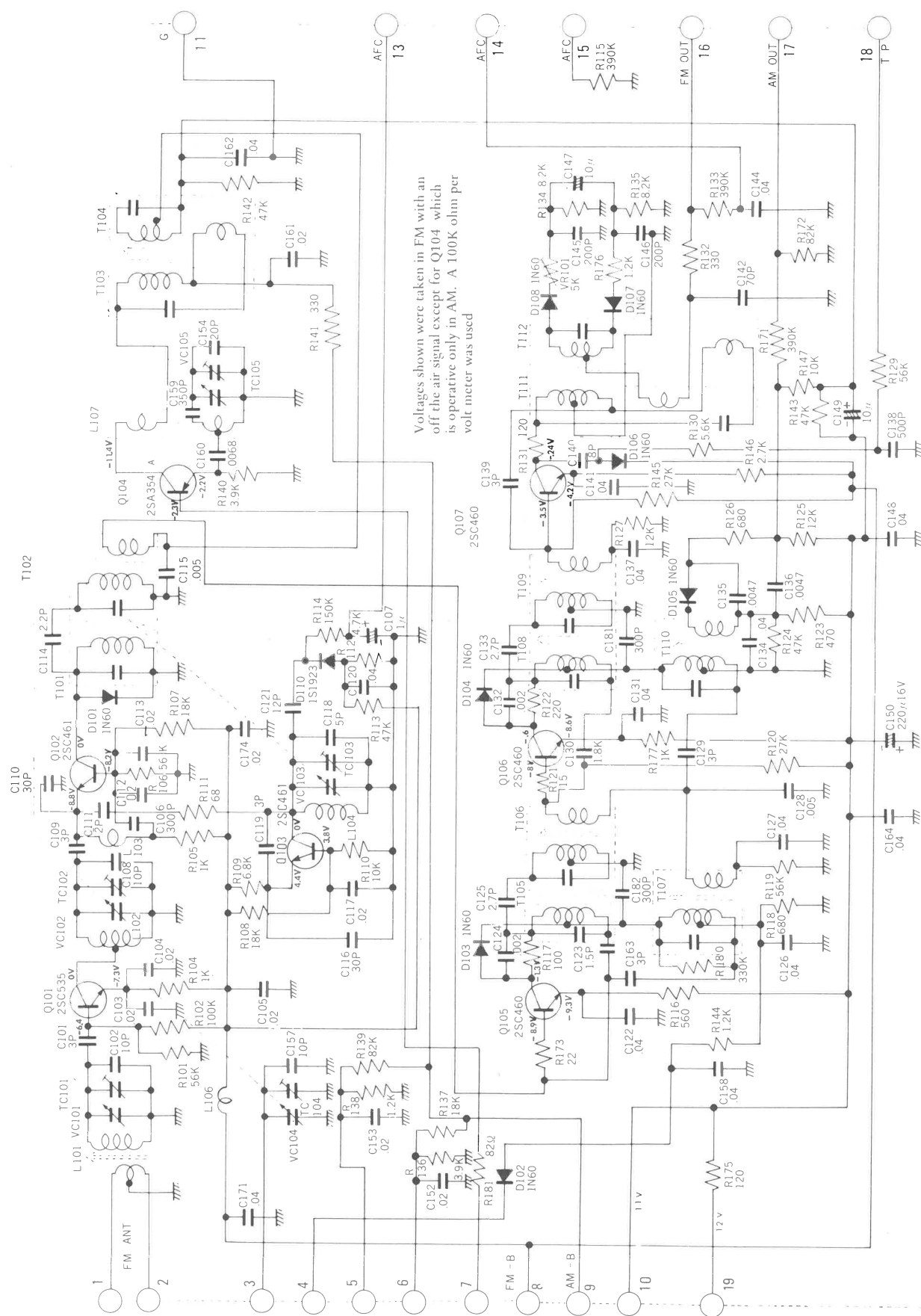
(MODEL P775g)

Assembly, Record Changer	RD630-4
Cartridge, Phono	EA1013
Needle, Phono	EA1014
Speaker, 6" Woofer	EA8468
Speaker, 3" Tweeter	EA8048

CABINET PARTS

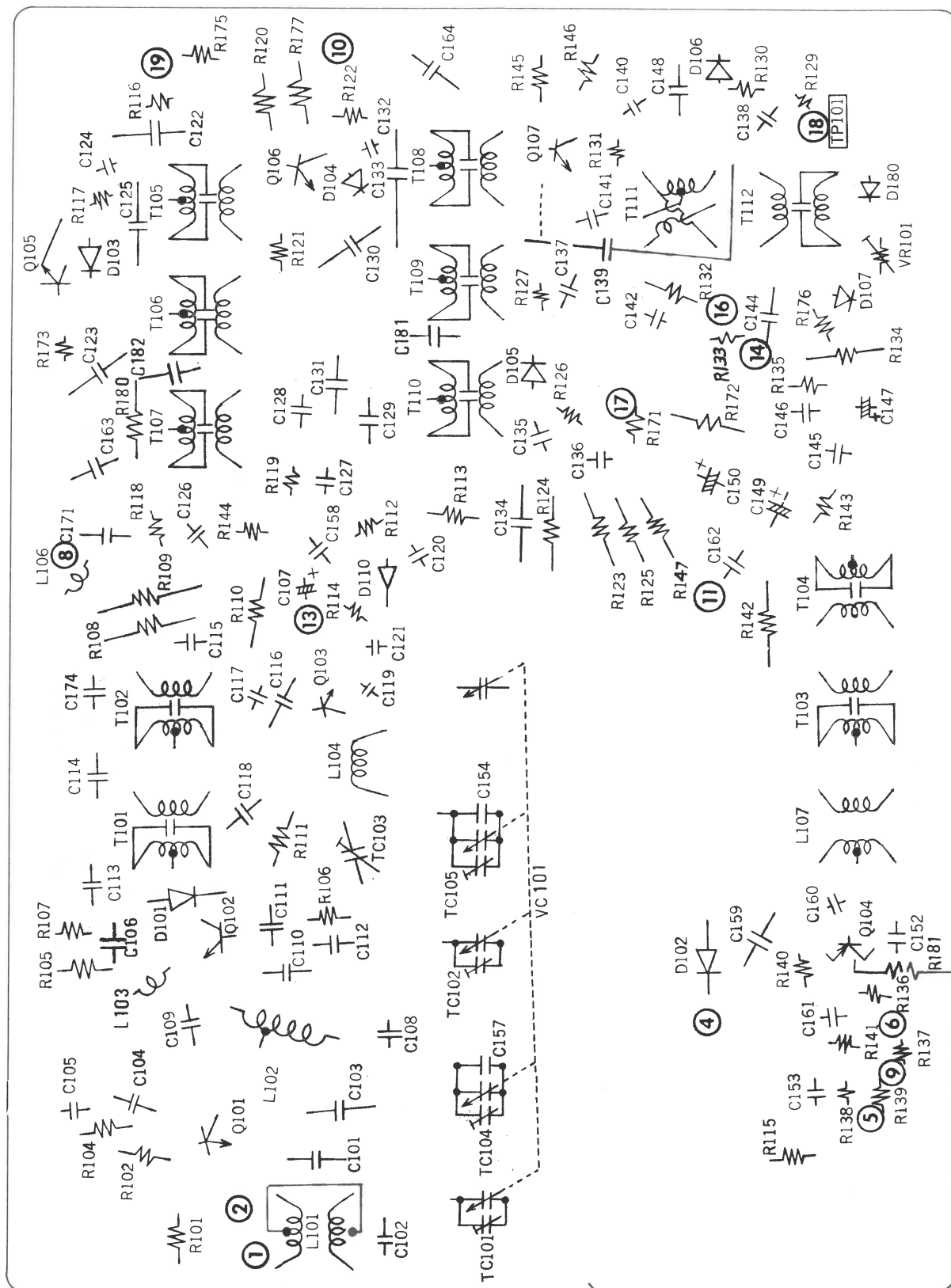
NAME	PART NO.*
(COMMON)	
Escutcheon, Front (All models except G270g)	EA2453/EA89X147
Inlay, Aluminum (All models except G270g)	EA2455/EA4X294
Window, Plastic	EA2454/EA4X293
Knob, Control	EA2461/EA43X185
Knob, Tuning	EA2462/EA43X186
(MODEL A505h)	
Enclosure, Speaker, Right	EA99X220-n
Enclosure, Speaker, Left	EA99X221-n
(MODEL C172g)	
Top, Cabinet	EA96842
Bottom, Cabinet	EA96X843
Cabinet, Speaker	EA96X665
Cover, Dust	EA96X839
(MODEL C460g)	
Cabinet, Tuner/Amp	EA99X213
Cabinet, Speaker	EA99X202
Cabinet, Changer	EA99X201
Cover, Dust	EA96X749
(MODEL C467g)	
Assembly, Main Cabinet	EA8785/EA99X213
Assembly, Speaker Cabinet	EA8463/EA99X202
Assembly, Changer Cabinet	EA8556/EA99X201
Cover, Dust	EA8321/EA96X749
(MODEL C467h)	
Assembly, Main Cabinet	EA8819/EA99X234
Assembly, Speaker Cabinet	EA8463/EA99X202
Assembly, Changer Cabinet	EA8556/EA99X201
Cover, Dust	EA8321/EA96X749
(MODEL G270g)	
Enclosure, Right Speaker	EA99X227-n
Enclosure, Left Speaker	EA99X228-n
Escutcheon, Control	EA89X164-n
Inlay, Aluminum	EA4X334-n
Glass, Dial	EA4X335-n
(MODEL G504h)	
Enclosure, Right Speaker	EA99X222-n
Enclosure, Left Speaker	EA99X223-n
(MODEL P774g)	
Assembly, Cabinet	EA8776
Cover, Dust	EA8625
Enclosure, Speaker	EA8724
(MODEL P775g)	
Top, Cabinet	EA8622
Bottom, Cabinet	EA8623
Cabinet, Speaker	EA8463
Cover, Dust	EA8625

* GE Major Appliance Distributor Part
Number/GE Service Facility Part Number



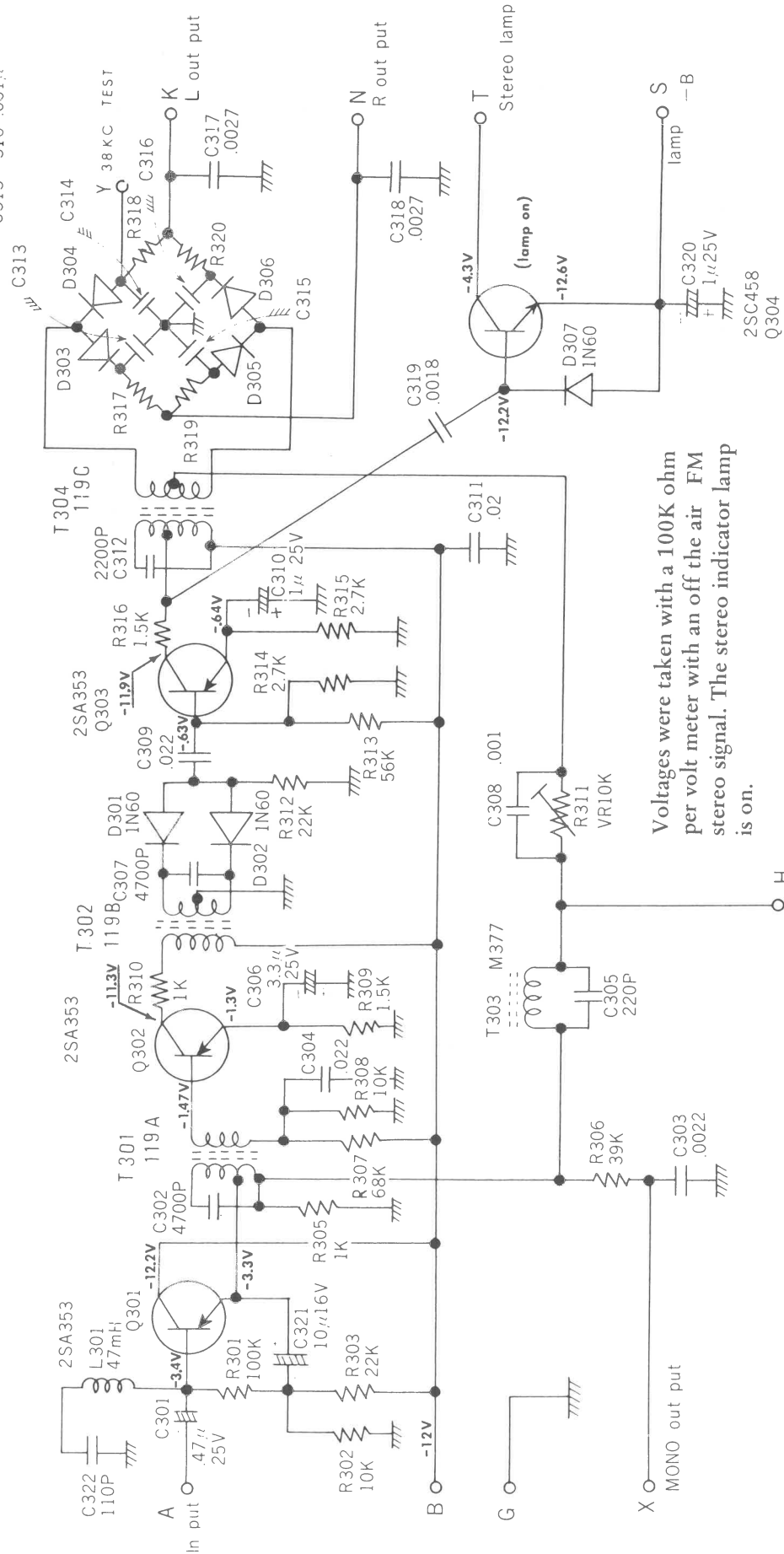
SCHEMATIC DIAGRAM - RF BOARD

**General Electric A505g/h, C172g, C460g, C467g/h,
G270g, G504g/h, G507g, P774g,
P775g (Ch. PK170)**



**COMPONENT LAYOUT- RF BOARD
(BOTTOM VIEW)**

D303 - 306 1N60
R317 - 320 15K
C313 - 316 .001"

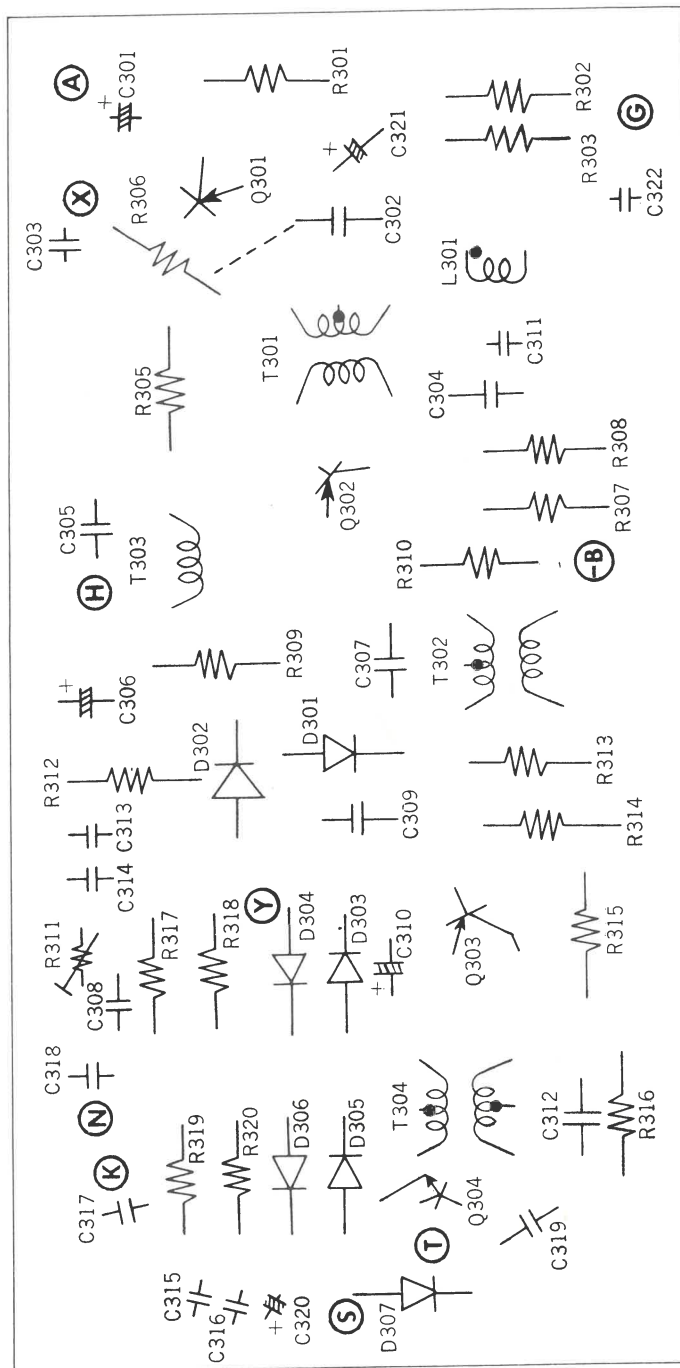


Voltages were taken with a 100K ohm per volt meter with an off the air FM stereo signal. The stereo indicator lamp is on.

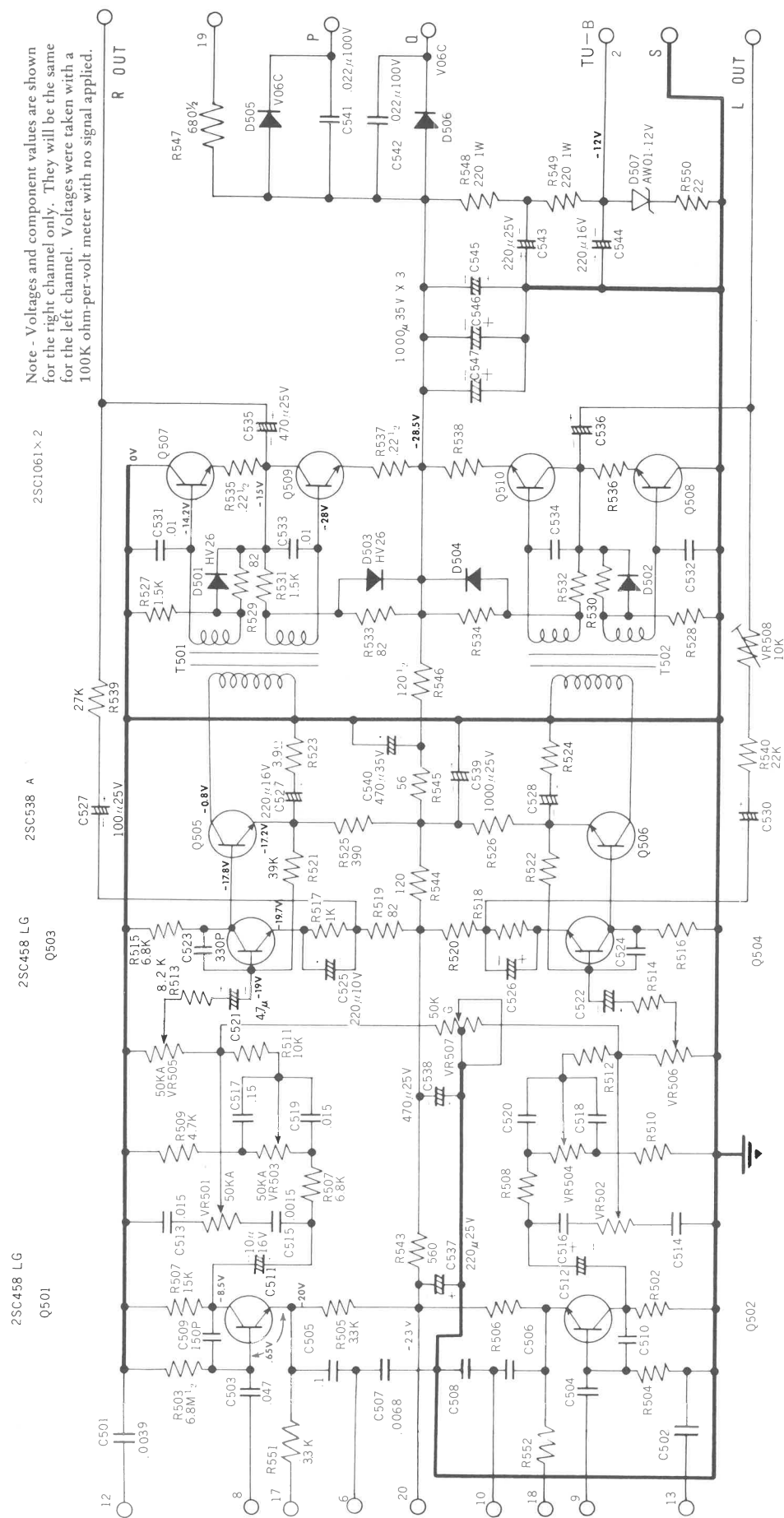
S.C.A. Test point (67KHz)

SCHEMATIC DIAGRAM - MPX BOARD

**General Electric A505g/h, C172g, C460g, C467g/h,
G270g, G504g/h, G507g, P774g,
P775g (Ch. PK170)**

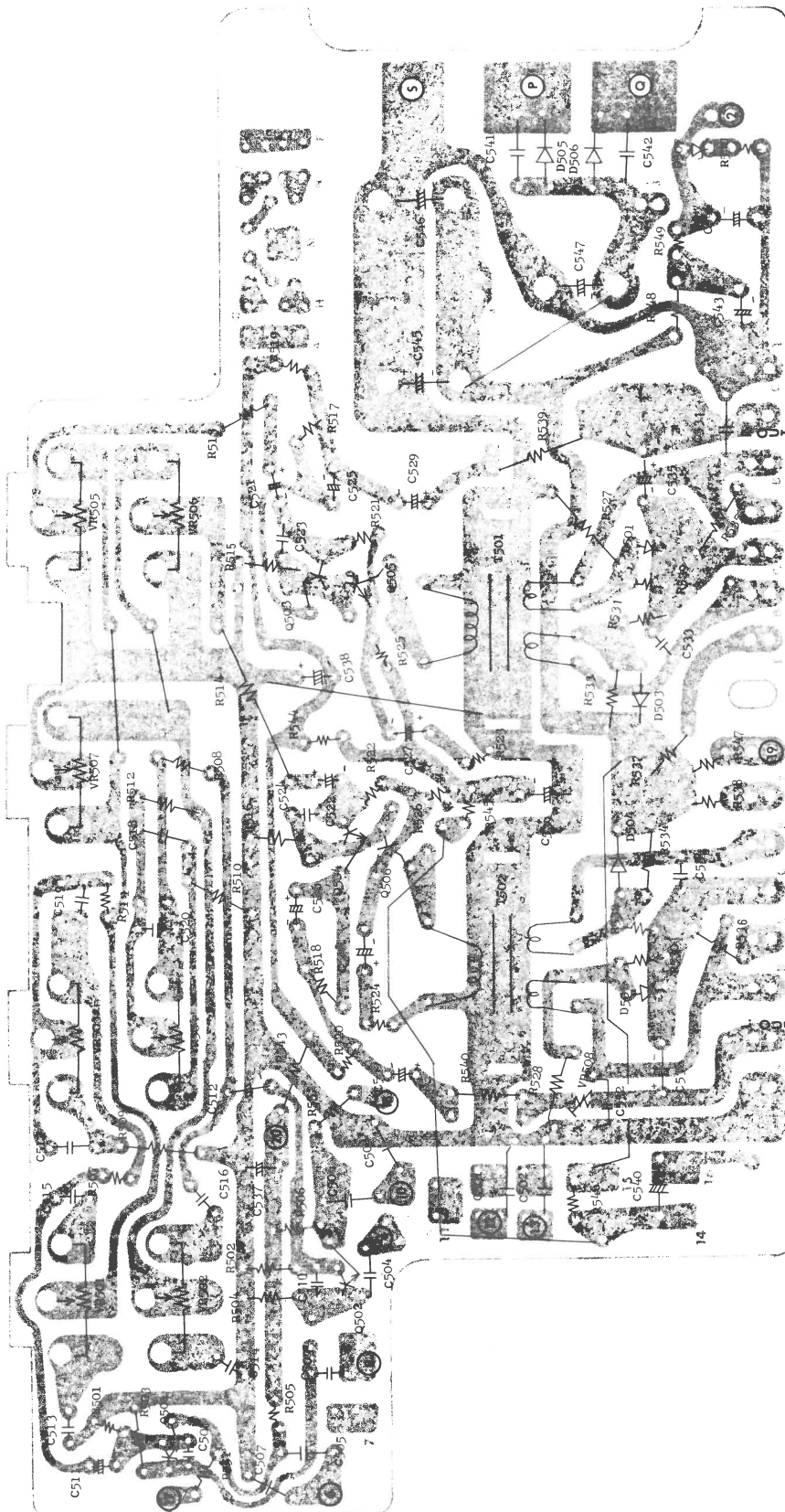


**COMPONENT LAYOUT - MPX BOARD
(BOTTOM VIEW)**



Note - Voltages and component values are shown for the right channel only. They will be the same for the left channel. Voltages were taken with a 100K ohm-per-volt meter with no signal applied.

*General Electric A505g/h, C172g, C460g, C467g/h,
G270g, G504g/h, G507g, P774g,
P775g (Ch. PK170)*



**COMPONENT LAYOUT-AUDIO BOARD
(BOTTOM VIEW) PK170**

CKT BOARD INTERCONNECTIONS - PK170

