

3. AM SECTION ALIGNMENT INSTRUCTIONS

3.1 Measuring Block Diagram (Fig. -1, 2)

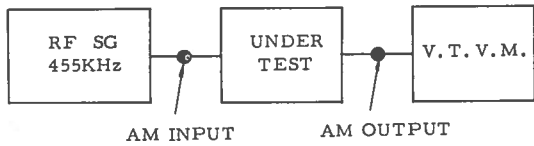


Fig. - 1

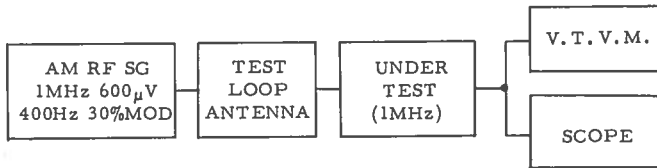


Fig. - 2

3.2 455 KHz IF Alignment

- 1 Connect the instruments as shown in Fig.-1. Set RF SG at 455 KHz and adjust T12, 13 and 14 IF coils for maximum reading on the V. T. V. M.

3.3 BC Band Alignment

- 1 Connect the instruments as shown in Fig.-2, and place mode switch in "AM" position.
- 2 Set the frequency at 600 KHz and adjust T6 (osc coil) for maximum reading on the V. T. V. M.. Set to 1400 KHz and adjust TC5 (osc trimmer) and TC4 (RF trimmer) for maximum reading on the V. T. V. M.
- 3 Repeat steps above until no further improvement can be obtained.

4. FM SECTION ALIGNMENT INSTRUCTIONS

4.1 Measuring Block Diagram (Fig. -3, 4)

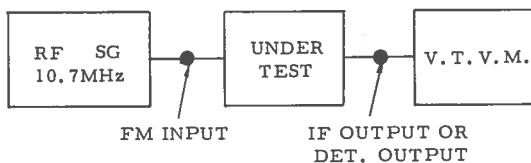


Fig. - 3

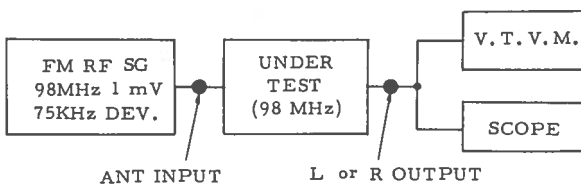


Fig. - 4

4.2 10.7 MHz Alignment

- 1 Connect the instruments as shown in Fig. -3.
- 2 Set RF SG to 10.7 MHz and adjust T7, 8 and 9 IF coils for maximum reading on the V. T. V. M..
- 3 Set RF SG at 10.7 MHz and adjust T11 and 12 (disc. coil) for minimum reading on the V. T. V. M.. The V. T. V. M. should be connected to the FM detector output on the P. C. B. at this point.

4.3 Tuner Front End Alignment

- 1 Connect the instruments as shown Fig. -4, and mode switch to "FM MONO".
- 2 Set the frequency at 90 MHz and adjust T4 (osc. coil) and T3 (IF coil) for maximum reading on the V. T. V. M. Next adjust T1 (Ant. coil) and T2 (RF coil) for maximum reading on the V. T. V. M.
- 3 Repeat steps above until no further improvement can be obtained.

5. FM SEPARATION ADJUSTMENT INSTRUCTIONS

5.1 Measuring Block Diagram (Fig. -5)

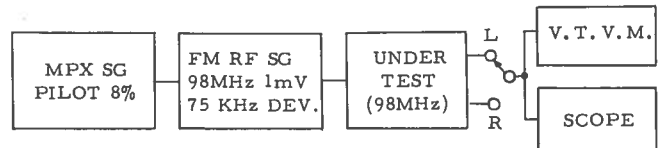


Fig. - 5

5.2 Separation Adjustment

- 1 Connect the instruments as shown in Fig. -5.
- 2 Set MPX SG at L-modulation and adjust T17 and 18 (MPX coil) for maximum reading (about 0.9 V rms) on the V. T. V. M. which is connected to the L-output of TM-175B.
- 3 Adjust T17 and 18 for minimum reading (about 0.05 V rms) on the V. T. V. M. which is connected to the R-output of TM-175B.
- 4 Set MPX SG at R-modulation and make adjustments in the R-output and L-output in the same manner as above.
- 5 In this process, check that the stereo-indicator lights.
- 6 Make adjustments in the manner above so that separation is within the specified limits.

SEMICONDUCTORS

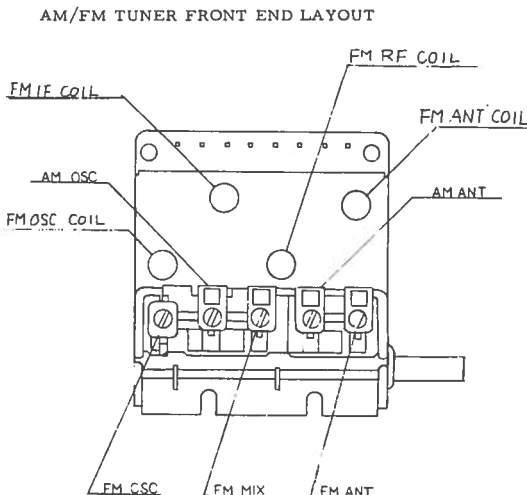
ITEM	TYPE		
D1	1S554	D15	1N60
D2	HV80	D16	1N60
D3	HV80	D17	1S1885
D4	1N60	Q1	2SK19(GR)
D5	1N60	Q2	2SC381(O)
D6	1N60	Q3	2SC381(O)
D7	1N60	Q4	2SC378(O)
D8	1N60	Q5	2SC372(Y)
D9	1N60	Q6	2SC372(Y)
D10	1N60	Q7	2SC372(Y)
D11	1N60	Q8	2SC372(Y)
D12	1N60	Q9	2SC373
D13	1N60	Q10	2SC373
D14	1N60	Q11	2SC373
		Q12	2SC373

ELECTROLYTICS/VARIABLE CAPS

ITEM	PART NO.	VALUE
C21		4.7uF 16V
C27		3.3uF 16V
C31		10uF 16V
C41		47uF 16V
C44		4.7uF 16V
C51		4.7uF 16V
C64		470uF 16V
C65		1000uF 16V
TC1		
TC2		
TC3		
TC4		
TC5		
VC1	(1)	Tuning Gang
VC2		
VC3		
VC4		
VC5		

CONTROLS/SPECIAL RESISTORS

ITEM	PART NO.	DESCRIPTION
VR1	P-6068	300K AM Level
VR2	P-6068	300K MPX Level (Left)
VR3	P-6068	300 MPX Level (Right)



COILS/TRANSFORMERS

ITEM	PART NO.		
ANT	A-0136	T13	CA-7038
T6	CA-4295	T14	CA-7039
T7	CA-7040	T15	CB-0090
T8	CA-7041	T16	CB-0090
T9	CA-7042	T17	CB-0089
T10	CA-7043	T18	CB-0089
T12	CA-7037	T19	TA-0207

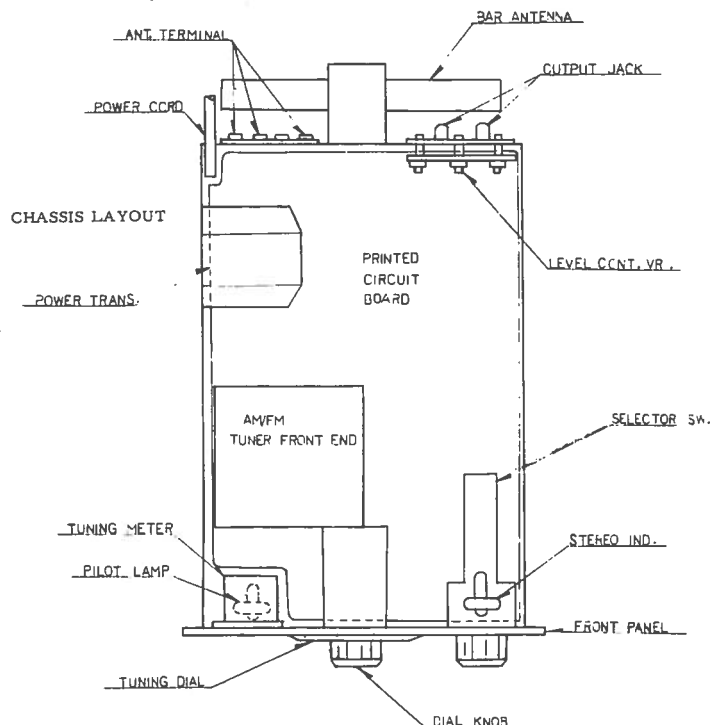
MISCELLANEOUS

ITEM	NAME	PART NO.
CFR	Filter, Ceramic	CA-2667
CR1	Component Combination	C-0407
CR2	Component Combination	C-0407
CR3	Component Combination	C-0404
CR4	Component Combination	C-0409
CR5	Component Combination	C-0405
CR6	Component Combination	C-0410
CR7	Component Combination	C-0405
LPF1	Filter, Low Pass	CA-2668
LPF2	Filter, Low Pass	CA-2668M
M	Meter, Tuning	M-0172
PL1	Lamp, Dial	L-0331
PL2	Lamp, Stereo Indicator	L-0332
S1		
S2		
S3	Switch, Selector	S-1062
S4		
S5		
S6		

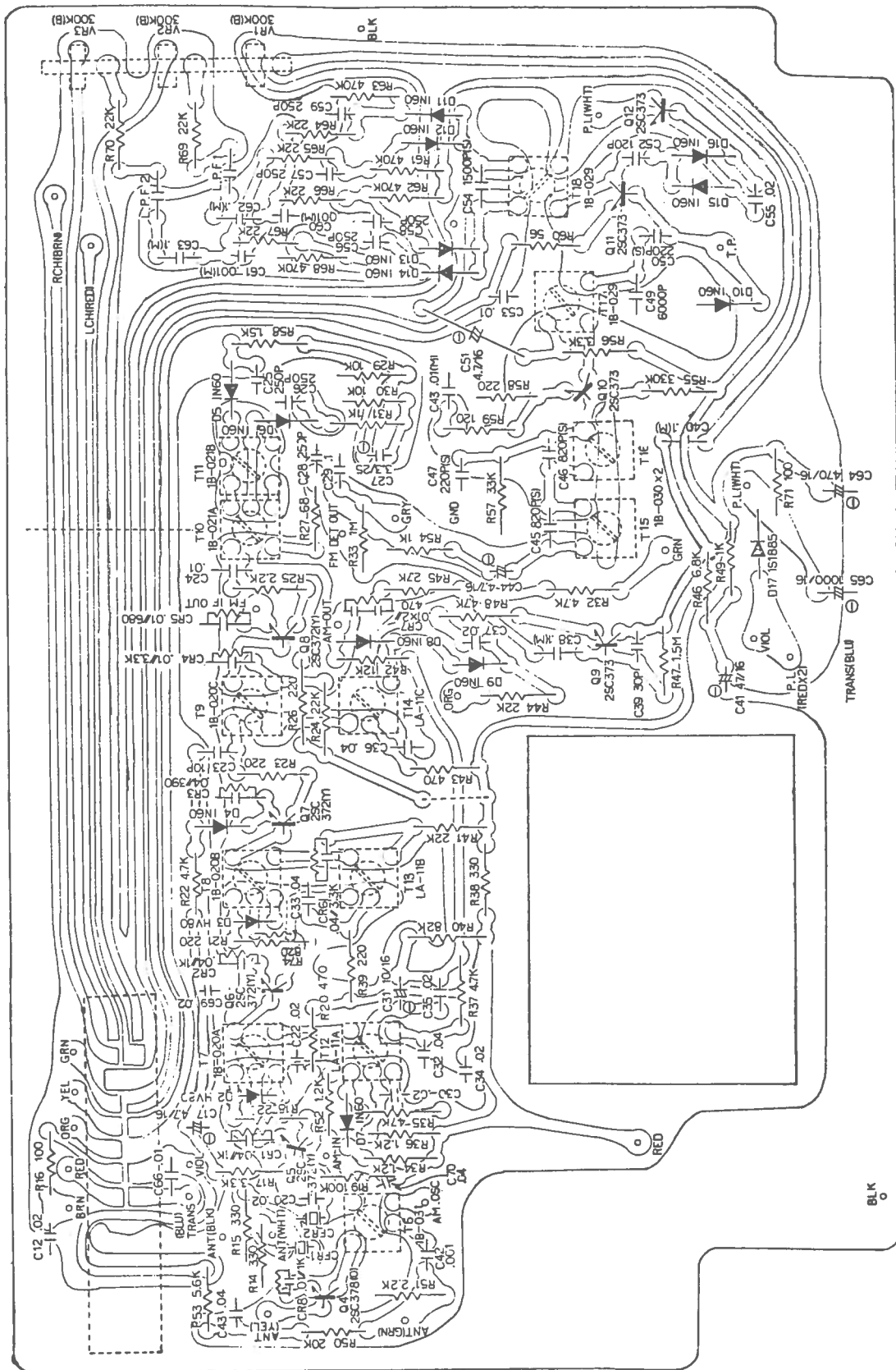
CABINET PARTS

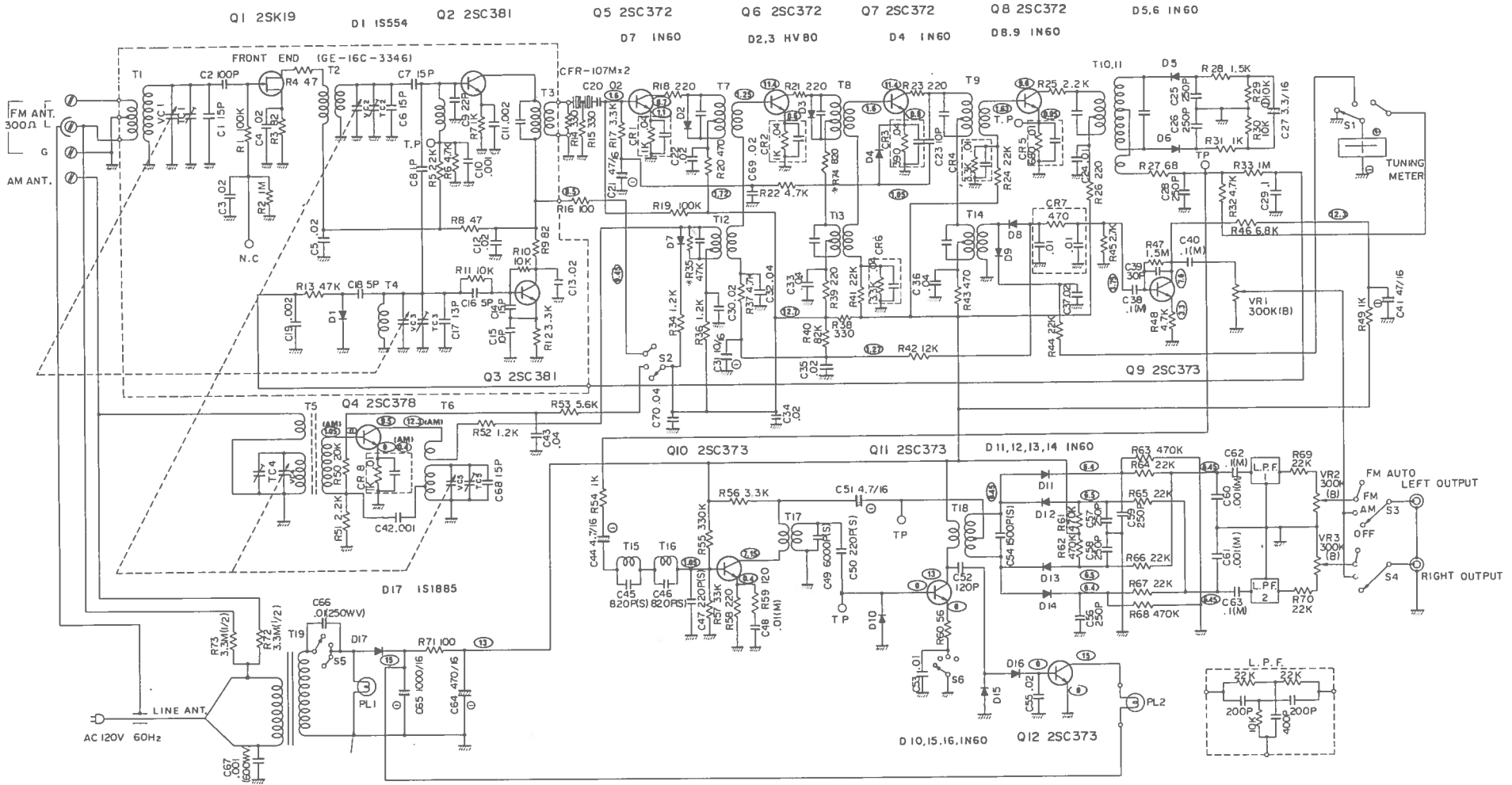
NAME	PART NO.
Cabinet	Z-0725
Jewel, Pilot Lamp	H-1418
Knob, Selector	K-1024
Knob, Tuning	K-1023

(1) Part of GE-16C-3364



PARTS LOCATION ON PRINTED CIRCUIT BOARD





- 1. S1~S6 : MODE SWITCH
- 2. TP : TEST POINT
- 3. RESISTANCE VALUES IN OHM, K= 1000
- 4. CAPACITANCE VALUES IN MF. P=MMF
- 5. ○ INDICATORS VOLTAGE READINGS
- 6. THE VALUES AND RATING ARE SUBJECT TO CHANGE FOR IMPROVEMENT WITHOUT NOTICE.

SCHEMATIC DIAGRAM