

MODEL -- C-5705--P-5701

ANT. CAPACITY
40 μMF SERIES
40 μMF SHUNT

IF = 262.5 KC

V1 12BL6 RF AMPL
V2 12AD6 CONVERTER
V3 12BL6 IF AMPL
V4 12AE6 DETECTOR
V5 12AE7 AUDIO DRIVER
V6 12AE6 AUDIO OUTPUT

FRONT SPKR
REAR SEAT SPEAKER (PRONG END)

REAR SEAT SPEAKER SOCKET

JUMPER PLUG

CHASSIS GROUND

VOLTMETER

HEAT RADIATOR

ANT. PADDERS
ANT. SOCKET
OSC. PADDERS
RF PADDERS
2ND IF
12AD6 CONV
12AD6
12BL6 IF AMPL
12BL6 RF AMPL
12AE7 DRIVER
12AE6 1ST AUDIO AMPL
AFC
T2

(DO NOT GROUND) HEAT RADIATOR

AR5 AUDIO OUT

TO INSTRUMENT PANEL LIGHT DIMMER

FUSE 7.5 AMP

PILOT LAMPS

SWI

SWI

FI

300

(FILAMENT)

L5

C208 500MF

C20A 200MF

R25 25

R27 1B

R21 15

R18 10W

R19 4.7K

R17 660K

R16 16K

R15 680

R14 1M

R13 27K

R12 100

R11 50K

R10 120K

R9 1.6 MEG

R8 1 MEG

R7 4.7 MEG

R6 680

R5 47K

R4 6.5 MEG

R3 820K

R2 2K

R1 150K

C1 100

C2 100

C3 100

C4 .047

C5 33

C6

C7 100

C8 .008

C9 100

C10 100

C11 .1

C12 .047

C13 .004

C14 220

C15 .008

C16 .005

C17 .047

C18 .047

C19 .047

C20 .047

C21 300

C22 .001

C23 .001

C24 .001

C25 .001

C26 .001

C27 .001

C28 .001

C29 .001

C30 .001

C31 .001

C32 .001

C33 .001

C34 .001

C35 .001

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C293 .001

C294 .001

C295 .001

C296 .001

C297 .001

C298 .001

C2

Schematic Diagram, Philco Model C5705 (Mopar 847)

SERVICING PRECAUTIONS

A-C leakage from measuring instruments or soldering irons may damage the transistor. All transistor measurements should be made with a battery-operated instrument. When soldering is necessary, disconnect set from power source.

Do not operate these receivers with the speaker disconnected, as transient voltages across an unloaded output transformer may damage the transistor.

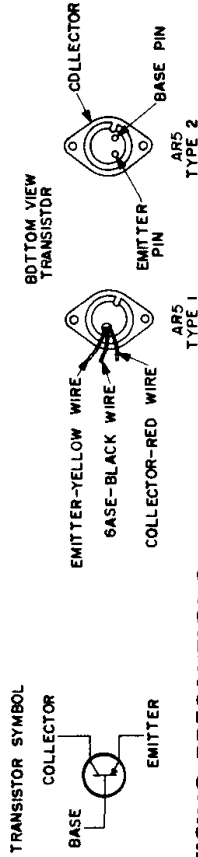
When installing a new transistor, a good physical and electrical contact must be established between the collector and the heat radiator; care must be exercised when soldering, since excessive heat may melt the internal junctions. To adjust the bias, first make sure that the bias control, R21, is set at the center of its range. Then adjust the bias control for 500 ma. collector current, or for 1.25 volts, d.c., across the output transformer primary, with no input signal. (This bias control is "HOT" to ground — use insulated adjustment tool).

MODEL P-5701 AND C-5705

To correct audio frequency response the 1st audio plate load resistor (R13) has been changed in value to 470,000 ohms, the 2nd audio grid return resistor (R14) has been changed to 4.7 megohms and the .0015 mfd, 1st audio plate bypass condenser, C16, has been removed.

SETTING PUSH BUTTONS

1. Turn radio on and allow it to operate for fifteen minutes. Antenna should be fully extended.
2. Unlock push buttons by pulling them out.
3. Accurately tune in a station with manual tuning knob.
4. Lock one push button to that station by pushing firmly in.
5. Repeat above procedure for remaining push buttons.



DC RESISTANCES		
L1		PRI
L2	11 OHMS	T2
L3	5 OHMS	SEC
L4	7.5 OHMS	PRI
L5	15 OHMS	T3
	LESS THAN	SEC
	LESS THAN	PRI
	PRI	T4
	3.4 OHMS	SEC
T1	3.4 OHMS	TANK
	3.4 OHMS	LESS THAN

VOLTAGE MEASUREMENTS WERE MADE WITH SET OPERATING FROM 100 TO 1,000 VOLTS. SUPPLY TUNING CONTROL SET AT LOW-FREQUENCY END OF BAND; NO SIGNAL INPUT ALL MEASUREMENTS ARE FROM POINT INDICATED TO CHASSIS UNLESS OTHERWISE SPECIFIED. OSCILLATOR GRID VOLTAGE WAS MEASURED WITH AN ELECTRONIC VOLTMMETER HAVING A ONE-MEGOHM PROBE ISOLATING RESISTOR. ALL OTHER MEASUREMENTS WERE TAKEN WITH A 20,000-OHMS PER-VOLT METER.

NOTES

- 1 ALL RESISTANCE VALUES ARE IN OHMS $\pm 10\%$, 1/2 WATT, UNLESS OTHERWISE INDICATED.
 - 2 ALL CAPACITANCE VALUES OF 1.0 AND ABOVE ARE IN MMF $\pm 20\%$; AND ALL VALUES BELOW 1.0 ARE IN MF $\pm 20\%$, UNLESS OTHERWISE INDICATED.
- * ADJUST FOR 500 MA COLLECTOR CURRENT OR 1.25V DC DROP ACROSS OUTPUT TRANSFORMER PRIMARY (NO SIGNAL I/V INPUT) DO NOT USE A VACUUM TUBE VOLTMETER FOR THIS MEASUREMENT.
- REMOVAL: REMOVE PLUG FOR REAR SEAT SPEAKER INSTALLATION