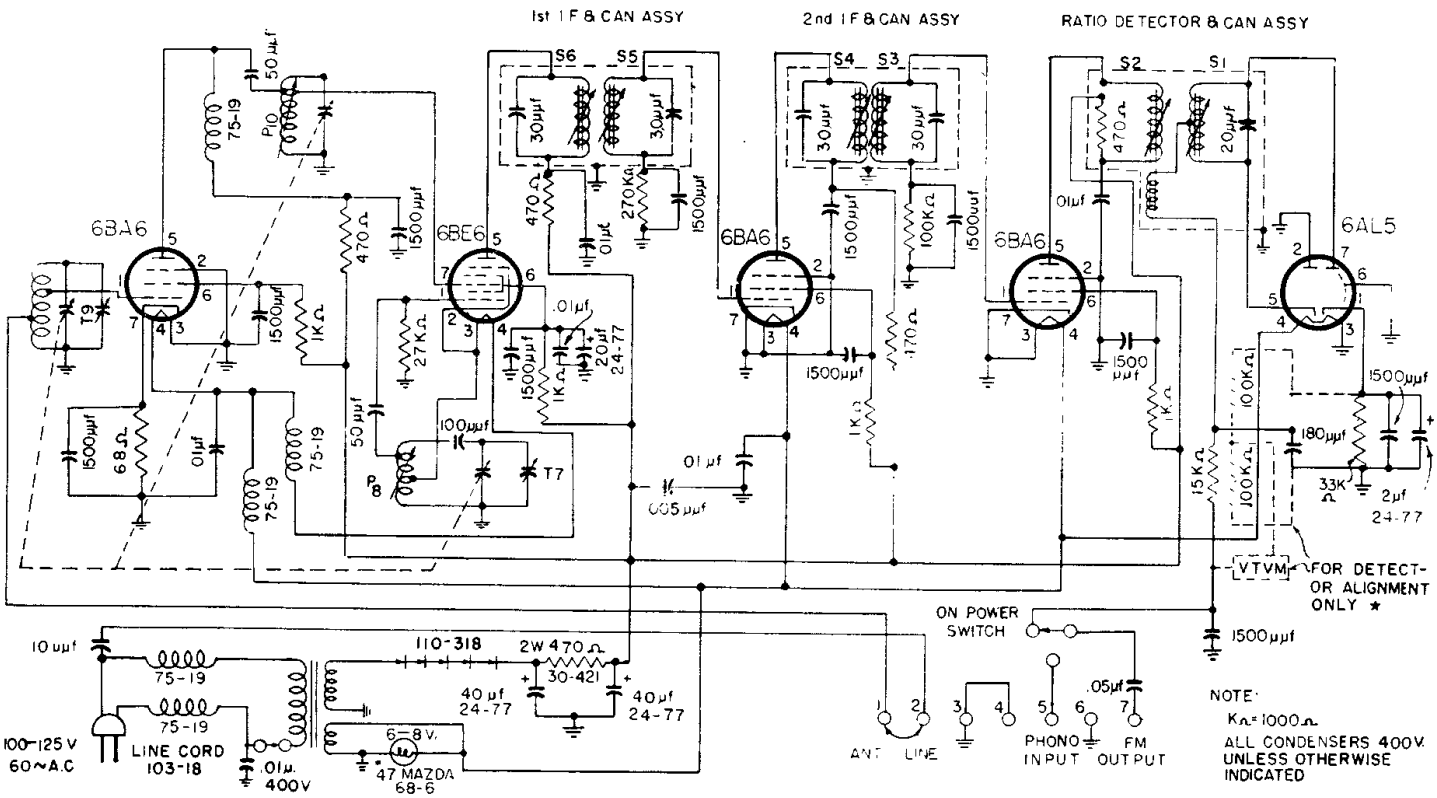
PILOT RADIO - MODEL T-601

Tuning Range 88-108 Mc.

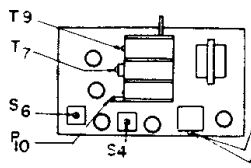
ALIGNMENT CHART

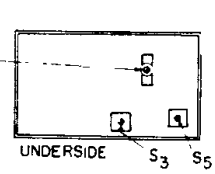
Insulated alignment tools are necessary. The output meter should be a D.C. vacuum tube voltmeter with a range of at least 20 volts. The signal generator should cover the frequencies of 10.7, 90 and 106 mc. Allow the PILOTUNER to warm up for at least 30 minutes before making any adjustments. The location of the adjustment screws is indicated clearly on the schematic diagram. Follow the sequence in the alignment chart.

CIRCUIT ALIGNED	STEP	RCVR. DIAL POINTER	SIGNAL GEN. FREQ.	SIGNAL GEN. CONNECTIONS	METER CONNECTIONS	TRIMMER OR SLUG ADJUSTMENT	PROCEDURE
IF	1	88 mc	10.7 mc	Through .01 mfd. cap. to grid of 6BE6	Across two 100K resistors —indicated by dotted lines in schematic	S2, S1, S4, S3, S6, S5	Adjust for maximum output
	2		Repeat Step No 1				
Ratio Detector	3	88 mc	10.7 mc	Same as No. 1	From: Junction of two 100K resistors TO: Audio output of ratio detector. Connections indicated by dotted lines in schematic	S1	Adjust meter to zero (Check proper zero set) Meter should register reverse polarity when slug is rotated through zero output.
Oscillator	4	90 mc	90 mc	Through carbon 300 ohm resistor to Ant. Terminal	Same as Step No. 1	P8	Same as Step No. 1
	5	106 mc	106 mc	Same as No. 4	Same as No. 1	T7	Same as No. 1
	6		Repeat Steps No. 4 & 5				
	7	90 mc	90 mc	Same as No. 4	Same as No. 1	P10	Same as No. 1
RF	8	106 mc	106 mc	Same as No. 4	Same as No. 1	T9	Same as No. 1



S1	RATIO DETECTOR SEC	10.7 MC
S2	RATIO DETECTOR PRI	10.7 MC
S3	2ND I.F. SEC.	10.7 MC
S4	2ND I.F. PRI	10.7 MC
S5	1ST I.F. SEC	10.7 MC
S6	1ST I.F. PRI.	10.7 MC
T7	OSC TRIMMER	106 MC
P8	OSC PADDER	90 MC
T9	ANT TRIMMER	106 MC
P10	R.F. PADDER	90 MC





TO ALIGN RECEIVER USE FREQUENCIES AS INDICATED ON LEFT. ADJUST ALL TRIMMERS FOR MAX D.C. OUTPUT ACROSS 33KΩ RESISTOR IN 6AL5 CIRCUIT.

★TO ALIGN SECONDARY OF RATIO DETECTOR CONNECT METER AS INDICATED IN SCHEMATIC AND ADJUST S1 FOR ZERO OUTPUT.