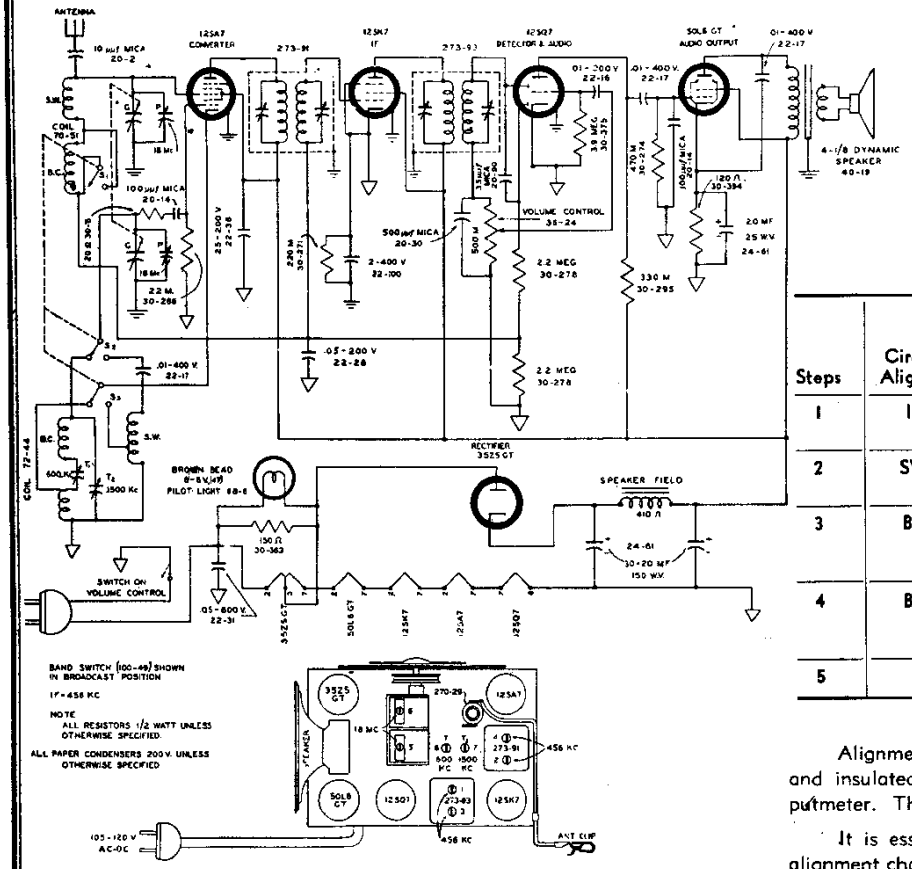
Pilot Radio Corp.

	Model: T-500	**Chassis:**	**Year:** Pre 1948
	Power:	**Circuit:**	**IF:**
	Tubes:		
	Bands:		

Resources

Riders Volume 15 - PILOT 15-7

Riders Volume 15 - PILOT 15-8



BAND SWITCH (100-49) SHOWN IN BROADCAST POSITION

I.F. = 456 KC

NOTE
ALL RESISTORS 1/2 WATT UNLESS OTHERWISE SPECIFIED.
ALL PAPER CONDENSERS 200 V. UNLESS OTHERWISE SPECIFIED

PILOT RADIO CORPORATION LONG ISLAND CITY, N.Y., U.S.A.	
SCHEMATIC DIAGRAM MODEL 500	
DRAWN BY AL	DATE-7-24-45
CHECKED BY	DRAWING NO 93-151
APPROVED BY	

SYM	DESC.
⏚	CHASSIS
⏚	B - BUS

PART NO.	SYMBOL	DESCRIPTION
26-28	G	GANG CONDENSER
PART OF 26-28	P	TRIMMERS ON GANG CONDENSER
27-16	T_1-T_2	DUAL TRIMMER
100-48	$S_1S_2S_3$	BAND SWITCH
273-91		1ST IF TRANSFORMER & CAN ASSEMBLY
273-93		2ND IF TRANSFORMER & CAN ASSEMBLY
27-54		OSC. & ANT. COIL & WAVE. ASSY.

Broadcast Band—535 to 1720 kc

Short Wave Band—5.6 to 24.0 mc

ALIGNMENT CHART

Steps	Circuit Aligned	RECEIVER Band Switch	RECEIVER Dial Pointer	SIGNAL GENERATOR Frequency	SIGNAL GENERATOR Connection	Dummy Antenna	Trimmer to be adjusted
1	IF	BC	low end of dial	455 kc	grid of 12SA7	0.1 mfd	#1, 2, 3, 4
2	SW	SW	18 mc	18 mc	antenna clip	400 ohm carbon resistor	first, osc. #5; then, ant. #6
3	BC	BC	1500 kc	1500 kc	antenna clip	200 mmfd mica condenser	osc. #7
4	BC	BC	600 kc	600 kc	antenna clip	200 mmfd mica condenser	rock-in for max. reading with padder #8
5	Repeat Step No. 3						

Alignment should be attempted only if a low range A.C. meter, a signal generator, and insulated alignment tools are at your disposal. The A.C. meter is used as an outputmeter. The signal generator must cover a frequency range from 450 kc to 24 mc.

It is essential that the signal generator be connected to the points indicated in the alignment chart through the proper dummy antenna.

A good ground connection, secured between the groundpost of the signal generator and the chassis, is necessary.

The output of the signal generator must always be kept at its lowest possible value. This is to prevent the automatic volume control of the receiver from interfering with accurate alignment.

During alignment, the line voltage feeding the receiver power supply should be kept at approximately 117 volts.

The locations of adjustment screws are indicated clearly on the schematic diagram. Alignment adjustments should be made only in the sequence given in the chart.

For all alignments, connect the outputmeter across the voice coil. With the volume control turned fully clockwise, tune for a maximum reading.

PILOT RADIO CORP.