

WESTERN AUTO SUPPLY COMPANY

MODEL D-2383

TRUE TONE BROADCAST AND SHORT WAVE RECEIVER

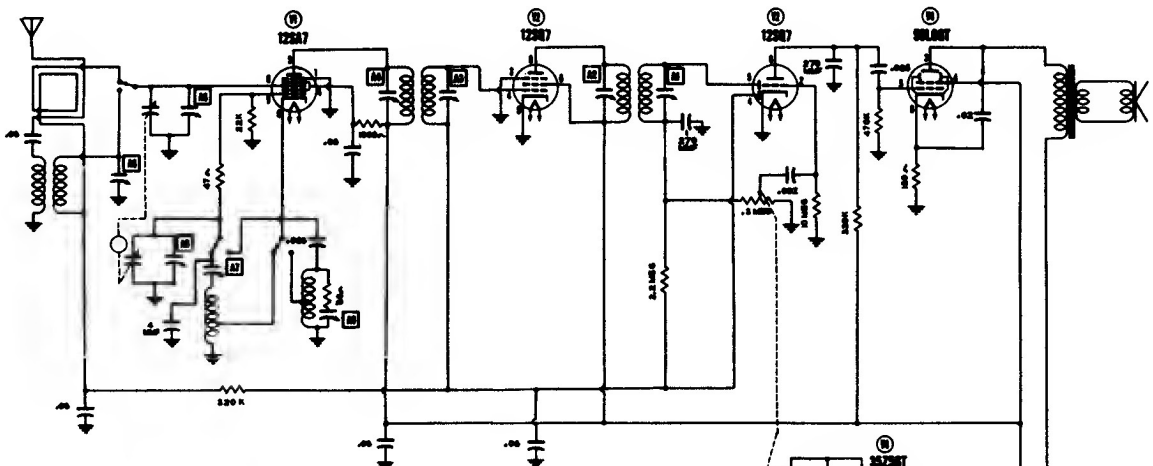
ALIGNMENT PROCEDURE

To set dial pointer, turn tuning gang fully closed and set left hand edge of the pointer $1 \frac{11}{16}$ " from the left hand edge of the dial backplate.

Use isolation transformer if available. If not connect a .1 MFD. cap. in series with low side of signal generator and B-.

Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.05MFD	High side to rear stator of tuning gang. Low side to chassis.	455KC	BC	Tuning gang fully open.	Across voice coil.	A1, A2 A3, A4	Adjust for maximum output If isolation transformer is not used reduce dummy antenna to .001 MFD to reduce hum modulation.
.05MFD	"	1650KC	BC	"	"	A5	Adjust for maximum output
	Loop	1400KC	BC	Tune for max. signal	"	A6	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
	Loop	600KC	BC	600KC ($2 \frac{3}{16}$ " from left edge of dial backplate.)	"	A7	Adjust for maximum output
400Ω Carbon Resistor	High side to external antenna lead. Low side to chassis.	18.3MC	SW	Tuning gang fully open.	"	A8	Adjust for maximum output
400Ω Carbon Resistor	"	16MC	SW	Tune for max. signal	"	A9	Adjust for maximum output



1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pins as common negative.
4. Line voltage measured as 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of $\pm 10\%$ in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

IF = 455 KC

VOLTAGE READINGS									
Tube	Value	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
V1	12X67	OV	85VAC	50VDC	50VDC	OV	OV	15VAC	-5VDC
V2	12X67	OV	85VAC	OV	-5VDC	OV	50VDC	85VAC	50VDC
V3	12X67	OV	-5VDC	OV	-5VDC	-5VDC	50VDC	15VAC	OV
V4	6X4	50VDC	85VAC	115VAC	50VDC	OV	-5VDC	85VAC	5.5VDC
V5	6X4	50VDC	115VAC	115VAC	-5VDC	115VAC	-5VDC	85VAC	115VDC

RESISTANCE READINGS									
Tube	Value	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
V1	12X67	OV	240	11000Ω	1000	2000	OV	150	5.0MΩ
V2	12X67	OV	240	OV	5.0MΩ	OV	11000Ω	240	11000Ω
V3	12X67	OV	10.0MΩ	OV	5.0MΩ	5400	12000Ω	150	OV
V4	6X4	500Ω	470	1200Ω	11000Ω	5000Ω	5.0MΩ	240	1500
V5	6X4	13000Ω	1500	1150	15.0MΩ	1500	15.0MΩ	470	600Ω

† Measured From Pin 8 of V5.