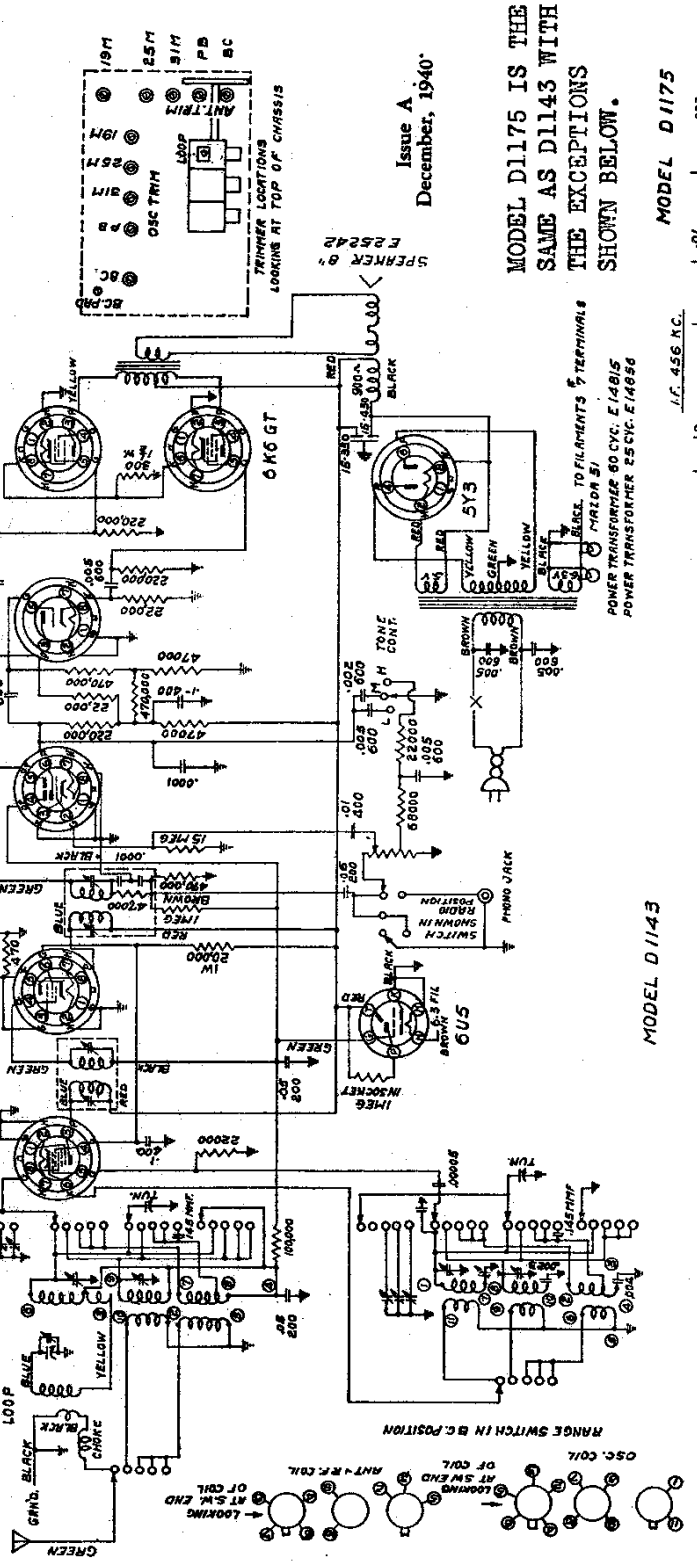
Western Auto Supply Co.

	Model: D1143, Issue A	Chassis:	Year: Pre March 1942
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		

Resources
Riders Volume 13 - TRUETONE 13-72
Riders Volume 13 - TRUETONE 13-73

MODEL D1143, Issue A
MODEL D1175

WESTERN AUTO SUPPLY CO.



SERVICE DATA

The tube complement of this chassis consists of the following octal base glass and metal tubes:
The type and function of each tube is as follows:

1—6SA7	First Detector and Oscillator	Power input at 115 V. line—85 Watts—with phono—100
1—6SK7	I. F. Amplifier	Power output—5 Watts.
1—6SQ7	Diode Detector and A. F. Amplifier	Selectivity at 1000 times signal—40 KC Band width.
1—6J5GT	Phase Inverter	Sensitivity as shown in alignment chart.
2—6K6GT	Power Output	Intermediate frequency—456 KC.
1—6U5	Tuning Eye	
1—5Y3G	Rectifier	

PARTIAL SCHEMATIC

The following chart will give ample data for aligning this receiver. The generator and receiver should be allowed to warm up for several minutes. An accurately calibrated generator should be used and dummy antennas of 200 MMF, 400 Ohms and .1 MFD should be available as well as an output indicating device. The volume control setting is maximum and sensitivities given are for .5 Watt output.

SEE CIRCUIT DIAGRAM FOR TRIMMER LOCATIONS

Generator	Connection at Radio	Dummy Antenna	Range Switch	Dial	Trimmers to Tune	Sensitivity	Remarks
I. F. 456 K. C.	Center Stator of Variable	.1 MFD.	A	H. F. End	I. F. Transformers	65—70MV.	Tune to Max.
B. C. 1725 K. C.	Antenna	200 MMF.	A	H. F. Limit of Travel	B. C. Oscillator		Set Band Limit
1400 K. C.	Antenna	200 MMF.	A	1400	B. C. Antenna and Loop	5-10 MV.	See Note A
600 K. C.	Antenna	200 MMF.	A	Rock Rotor	Padder	10-15 MV.	
P. B. 6.0 M. C.	Antenna	400 Ohm	B	6.0 M. C.	P. B. Osc. P. B. Ant.	25 MV.	See Note B
2.2 M. C.	Antenna	400 Ohm	B	2.2 M. C.	Check	40 MV.	See Note B
31M. 9.6 M. C.	Antenna	400 Ohm	C	9.6 M. C.	31M. Ant. 31M. Osc.	25 MV.	See Note B
25M. 11.6 M. C.	Antenna	400 Ohm	D	11.6 M. C.	25M. Ant. 25M. Osc.	30 MV.	See Note B
19M. 15.2 M. C.	Antenna	400 Ohm	E	15.2 M. C.	19M Ant. 19M. Osc.	40 MV.	See Note B

MODELS D1143 and D1175

Note "A"-If the pointer is not at 1400 KC with a 1400KC sig. it may be loosen from the dial cord and moved to correct the calibration.This should be checked across the band to arrive at the optimum condition.

Note "B"-Care should be taken not to align on image frequency.This may be checked by rotating the dial of sig. gen. Another sig. should be heard at dial frequency plus 912 KC.This sig. should be checked carefully on all short wave bands, making sure the lowest frequency sig. agrees with dial setting in frequency and that it is the strongest of the two.

ALIGNMENT PROCEDURE

- Volume control—Maximum all adjustments.
- Connect radio chassis to ground post of signal generator with a short heavy lead.
- Connect dummy antenna value in series with generator output lead.
- Connect output meter across primary of output transformer.
- Allow chassis and signal generator to "heat up" for several minutes.

The following equipment is required for aligning:

- An all wave signal generator which will provide an accurately calibrated signal at the test frequencies as listed.
- Output indicating meter.
- Non-metallic screwdriver.
- Dummy antennas—.1 mf., 175 mmf.

MODEL DE3000

BAND	SIGNAL GENERATOR Frequency Setting	Dummy Antenna	Connection to Radio	Variable Condenser Setting	Trimmers Adjusted (in Order Shown)	Trimmer Function	Adjustment
I. F.	465 Kc.	.1 MFD.	Grid of 6K7G I.F. Tube	Rotor full open (Plates out of mesh)	Two trimmers on top (See Fig. 2)	Output I. F.	Adjust to maximum output
	465 Kc.	.1 MFD.	Grid of 6A8G	Rotor full open (Plates out of mesh)	Two trimmers on top (See Fig. 2)	Input I. F.	Adjust to maximum output
BROADCAST BAND	1550 ~~1725~~ Kc.	175 ~~200~~ mmf.	Antenna lead	Rotor full open (Plates out of mesh)	Trimmer—Top of Middle section of gang (See Fig. 2)	Oscillator	Adjust to maximum output
	1400 Kc.	175 ~~200~~ mmf.	Antenna lead	Set dial at 1400 Kc.	Trimmers—Top of front and rear section of gang (See Fig. 2)	Antenna and R. F.	Adjust to maximum output
	600 Kc.	175 ~~200~~ mmf.	Antenna lead	Set dial at 600 Kc.	B.C. Series Pad (See Fig. 2)	Oscillator series pad	Adjust to maximum rock dial. (See note "A")

NOTE "A" Turn the dial back and forth slightly (rock) and adjust trimmer until the peak of greatest intensity is obtained. Trimmer is located on top of chassis along side of gang.

Attenuate the signal from the signal generator to prevent the leveling-off action of the AVC.

After each band is completed, repeat the procedure as a final check.

Do not bend plates of variable condenser to correct tracking.

FREQUENCY RANGE
530 to 1550 Kc.

Power Output ..... 2 Watts Undistorted, 3.5 Watts Maximum

Intermediate Frequency ..... 465 KC.

Power Consumption ..... .6 Amperes at 6.3 Volts