

MODELS 645, 645LW, 652
Schematic, Alignment

DEWALD RADIO

These models are superheterodyne receivers, with full automatic volume control on all bands. They have been designed to operate on 110-125 volts, 40-60 cycles AC or DC unless otherwise specified. A slide rule instrument type dial which simplifies tuning is featured in these receivers. The ranges of the models are as follows: →

MODEL	RANGE COVERAGE		
645	555-174 meters 540-1725 K.C.	50-16 meters 6.0-18.5 M.C.	
645 L.W.	555-174 meters 540-1725 K.C.	2000-750 meters 150-400 K.C.	
652	555-174 meters 540-1725 K.C.	50-16 meters 6.0-18.5 M.C.	2000-750 meters 150-400 K.C.

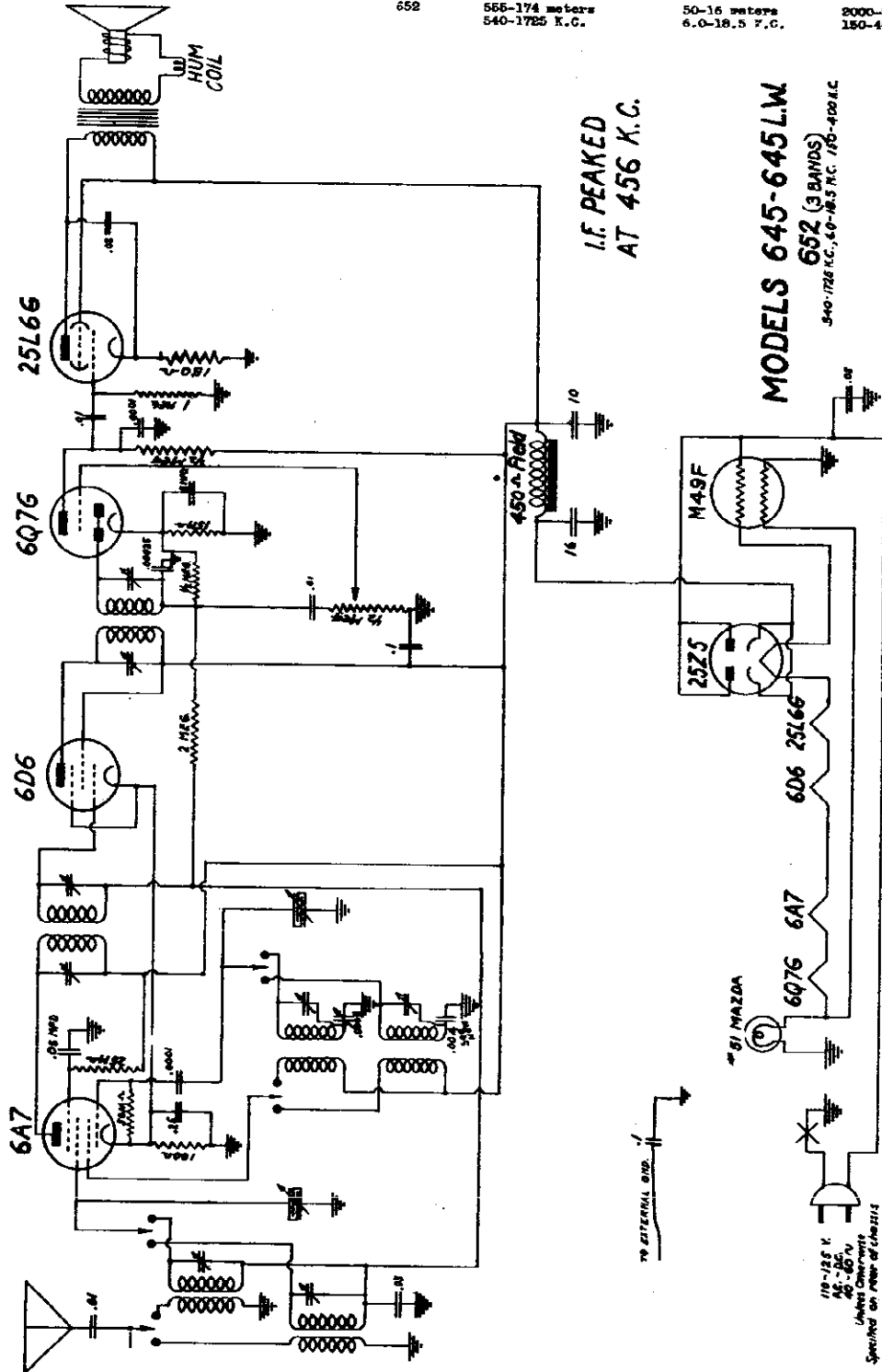
SHORT WAVE ALIGNMENT Turn wave band switch to the short wave band. Adjust generator and receiver to 16.0 M.C. Peak test signal for maximum signal. The low frequency is automatically adjusted by a fixed calibrated padder.

LONG WAVE ALIGNMENT Turn wave band switch to Long Wave band. Adjust the generator and receiver to 300 K.C. and peak trimmers for maximum signal. Adjust generator and receiver to 178 K.C. and peak Long Wave padder for maximum signal. The variable condenser should be "propped" during this operation. Recheck 300 K.C.

TO CALIBRATE RECEIVERS

I.F. ALIGNMENT Connect antenna lead of the signal generator to antenna lead of receiver and ground lead of generator to receiver chassis. Short circuit front section of variable condenser. Adjust generator to 456 K.C. and peak I.F. trimmers for maximum signal.

BROADCAST ALIGNMENT Remove short from variable condenser. Have wave band switch on broadcast section. Adjust generator and receiver to 1500 K.C. Peak trimmers for maximum signal. Adjust generator and receiver to 600 K.C. peak the broadcast padder for maximum signal. The variable condenser should be "propped" during this operation.



I.F. PEAKED
AT 456 K.C.

MODELS 645-645LW
652 (3 BANDS)
540-1725 K.C., 60-18.5 M.C. 175-400 K.C.

110-125 V
AC - 60
40-60 V
Unless otherwise
Specified on rear of chassis
NOTE: On Models 645 L.W. this condenser is .00025