

Allied Radio Corp.

Model: 4E-516

Chassis:

Year: Pre 1950

Power:

Circuit:

IF:

Tubes:

Bands:

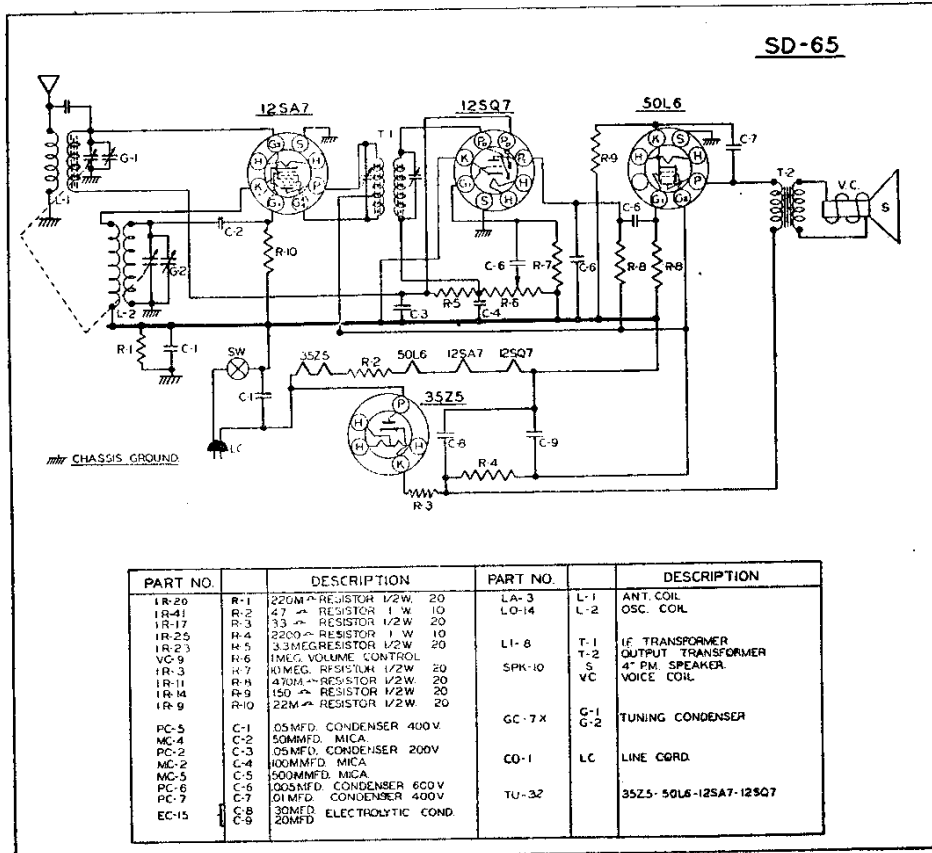
Resources

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ALLIED RADIO CORP.

MODELS 4E-515,
4E-516, 4F-515, 4F-516



Operating Instructions

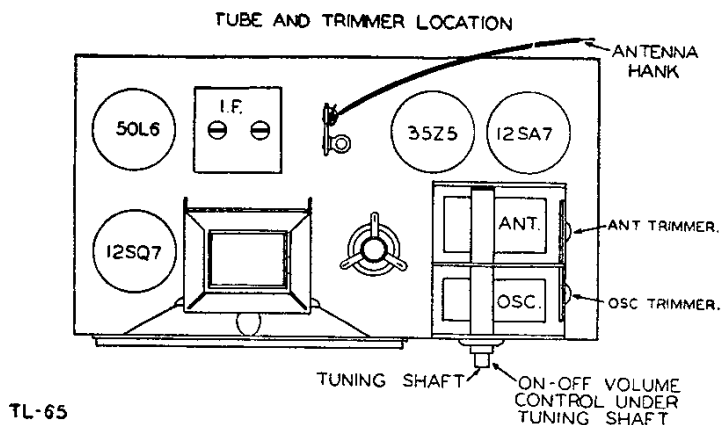
POWER SOURCES: This receiver may be operated on alternating current (AC) of 110 to 125 volts at 60 cycles or on direct current (DC) of 110 to 125 volts. When used on DC, if the tubes light up but set does not play, reverse the cord plug in the power outlet.

CAUTION: Always predetermine voltage of power sources. Never try to plug this receiver into a 220 volt line, as this will cause serious damage.

INSTALLATION: Unwind the power cord and plug into a convenient outlet. This receiver is equipped with an antenna hank, which should be uncoiled and stretched out to its full length for best reception. However, in steel constructed buildings or in distant isolated locations, better results may be obtained by connecting an outdoor antenna to the end of the antenna hank wire. The outdoor antenna should be about 50 feet long, including the lead-in wire.

MODELS 4E-515,
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CONTROLS: Two knobs control the operation of this receiver. The lower knob is used to turn the set off and on. It is also used to control volume. Rotate this knob to the right in a clockwise direction and a click will be heard. This turns the receiver on. Allow about thirty seconds for tubes to heat up, then continue to rotate the knob to the right to increase volume. The upper knob is the station selector. Rotate this knob to the right or left to locate your station. By mentally adding a zero to the numbers on the dial, the result will be read directly in kilocycles. To turn off, turn the lower knob to the left in a counterclockwise direction as far as it will go and a click will be heard. The power switch will then be turned off.

ALIGNMENT AND SERVICE DATA

(See Fig. No. 1 For Trimmer Location)

Remove chassis from cabinet for alignment.

A Signal Generator is required having the following frequencies: 455 KC, 1400 KC, 1650 KC. An output meter should be connected across the speaker.

The volume control of the receiver should be turned to maximum during the I. F. and all subsequent alignment and the generator output as low as possible to prevent the A. V. C. from working and giving false readings.

FIRST STEP: Connect the hot lead from the generator to the ANT. section of the gang condenser through a .1 MFD. condenser. The ground lead from the generator must be connected to "B" minus under the chassis. Turn the gang condenser to complete minimum capacity. Set the generator to 455 KC. Adjust the trimmers of the I. F. transformer until a maximum reading is noted on the output meter.

SECOND STEP: With the leads from the generator still connected in the same manner, adjust the Signal Generator to 1650 KC. Adjust the OSC. trimmer until the 1650 KC signal is tuned in. The gang condenser must be at complete minimum capacity for this adjustment.

THIRD STEP: Remove the generator hot lead and connect it to the antenna hank terminal strip through a 200 MMFD. condenser. With the receiver and generator set at 1400 KC, increase the generator output. Adjust the ANT. trimmer until a maximum signal is noted on the output meter. No further adjustment should be made as the coils and gang condenser in this receiver have been specially handled at the factory to insure proper alignment at the lower frequencies.