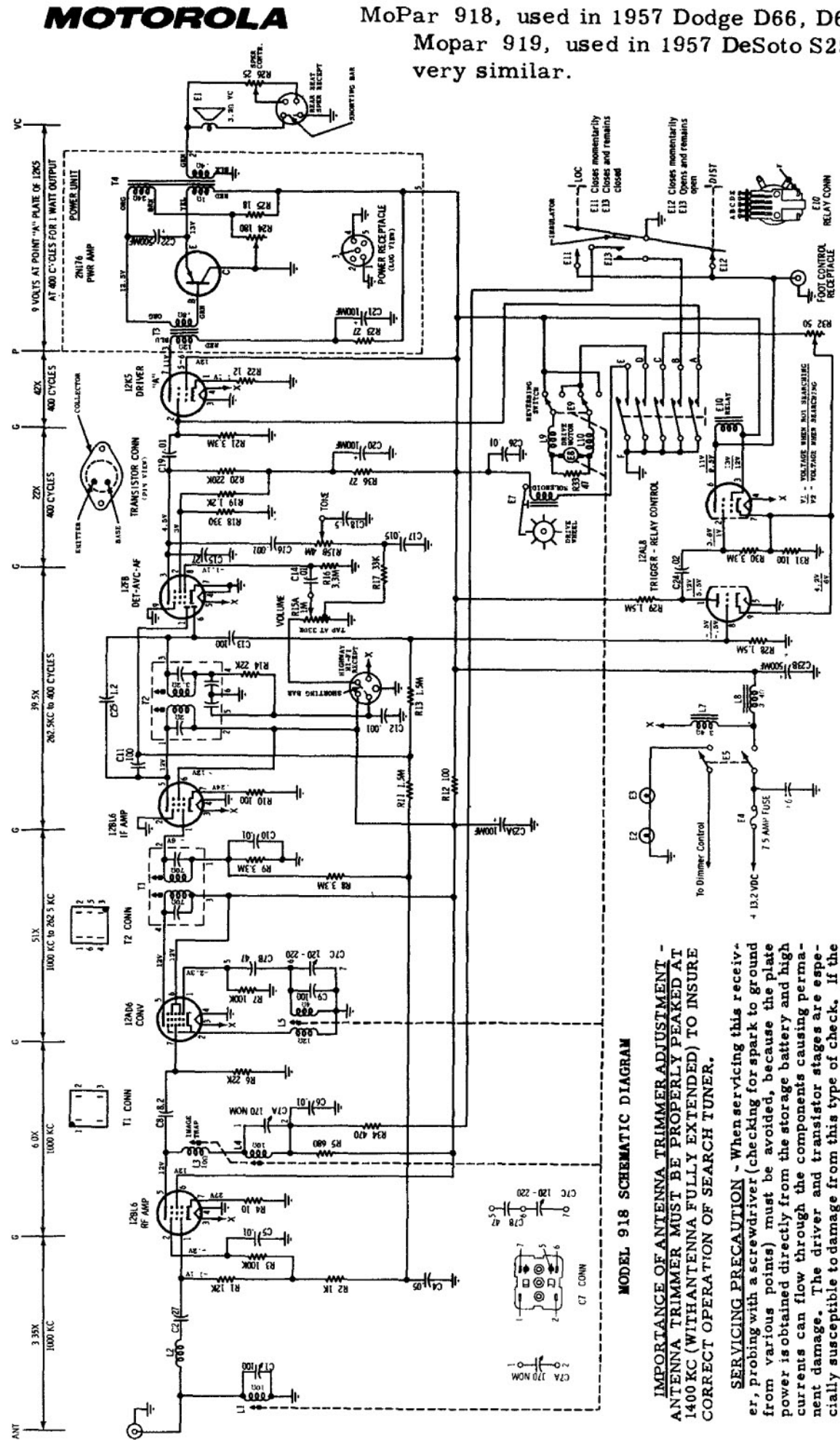
MOTOROLA

MoPar 918, used in 1957 Dodge D66, D67, D70, D71, D72. Mopar 919, used in 1957 DeSoto S25, S26, S27, is very similar.



MODEL 918 SCHEMATIC DIAGRAM

IMPORTANCE OF ANTENNA TRIMMER ADJUSTMENT - ANTENNA TRIMMER MUST BE PROPERLY PEAKED AT 1400 KC (WITH ANTENNA FULLY EXTENDED) TO INSURE CORRECT OPERATION OF SEARCH TUNER.

SERVICING PRECAUTION - When servicing this receiver, probing with a screwdriver (checking for spark to ground from various points) must be avoided, because the plate power is obtained directly from the storage battery and high currents can flow through the components causing permanent damage. The driver and transistor stages are especially susceptible to damage from this type of check. If the transistor BASE electrode is shorted to ground (either directly or through any other path) the BASE bias will be removed, allowing excessive current to flow through the transistor, causing permanent damage by melting the indium junctions in the transistor.

TRANSISTOR REPLACEMENT - When replacing a transistor, set the transistor bias control resistor (R-24) to its maximum resistance position and be sure that the transistor mounting screws are securely tightened. Adhering to these precautions will prevent damage to the transistor from low bias and lack of heat dissipation. NOTE: After replacing a transistor, adjust the EMITTER current as explained under EMITTER CURRENT ADJUSTMENT.

EMITTER CURRENT ADJUSTMENT - The emitter current is adjusted by variable resistor R-24 for a 900 Ma flow through the transistor with 12 volts at the receiver's "A" lead. The current is adjusted by measuring the voltage drop across the primary winding of the output transformer (T-4). Connect the negative lead of a low range VTVM to the yellow lead of T-4 (top of primary winding) and the positive lead to the red lead of T-4 (bottom of primary); adjust R-24 for a .86 volt reading on VTVM

TUBE CHECK - Substituting a known good tube for a suspected one is the best and only check recommended at this time.

NOTES:
CAPACITORS - decimal values in MF, all others in MMF unless otherwise specified.
VOLTAGES - measured from point indicated to chassis with a VTVM, ± 10%. No signal input.
INPUT VOLTAGE - 13.2 VDC
Resistance in Pwr Amp stag. make with transistor removed.

CAUTION
"A" LEAD MUST BE CONNECTED TO POSITIVE (+) SIDE OF POWER SUPPLY. RADIO WILL NOT OPERATE AND DAMAGE TO COMPONENTS WILL RESULT IF CONNECTED OTHERWISE.