

MOTOROLA

MODEL
GV-701

TRANSISTOR CURRENT ADJUSTMENT - After replacing a transistor, the collector current must be adjusted to insure proper operation of the output stage. Adjustment of the collector current must be made within one minute after the receiver has been turned on - before it has time to warm up. If the receiver is warm from operation, it will have to be cooled before adjusting the collector current.

A. Set R-21 to maximum resistance position (fully counter-clockwise when viewed from the wiring side) so that the new transistor does not draw excessive collector current and "run away".

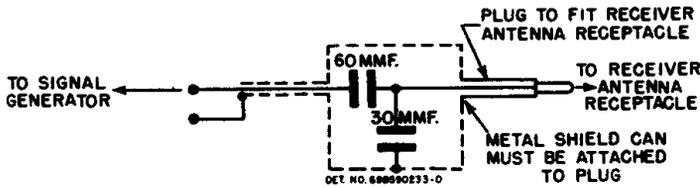
B. Unsolder output transformer (T-4) black lead and grounded speaker lead from chassis; connect the two leads together. Be sure speaker is connected while making adjustment; volume control must be set to minimum. Connect the positive side of a 0 - 1.0 amp DC ammeter to the two leads just removed and the negative side to chassis. The

meter used must have an internal resistance of .05 ohms or less; if higher, meter will act as a current limiter and cause an incorrect adjustment.

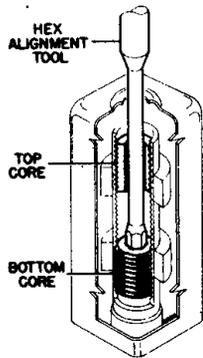
C. Adjust R-21, within one minute, after turning on a cold receiver for a total collector current reading of 160 ma with 12.6 volts input to receiver's "A" lead. Resolder two leads to chassis after adjustment.

NOTE: Two values of receiver input voltage are given as a convenience to service personnel to accommodate different power sources. The schematic total collector current value of 200 ma is stated with 14 volts DC input to receiver's "A" lead.

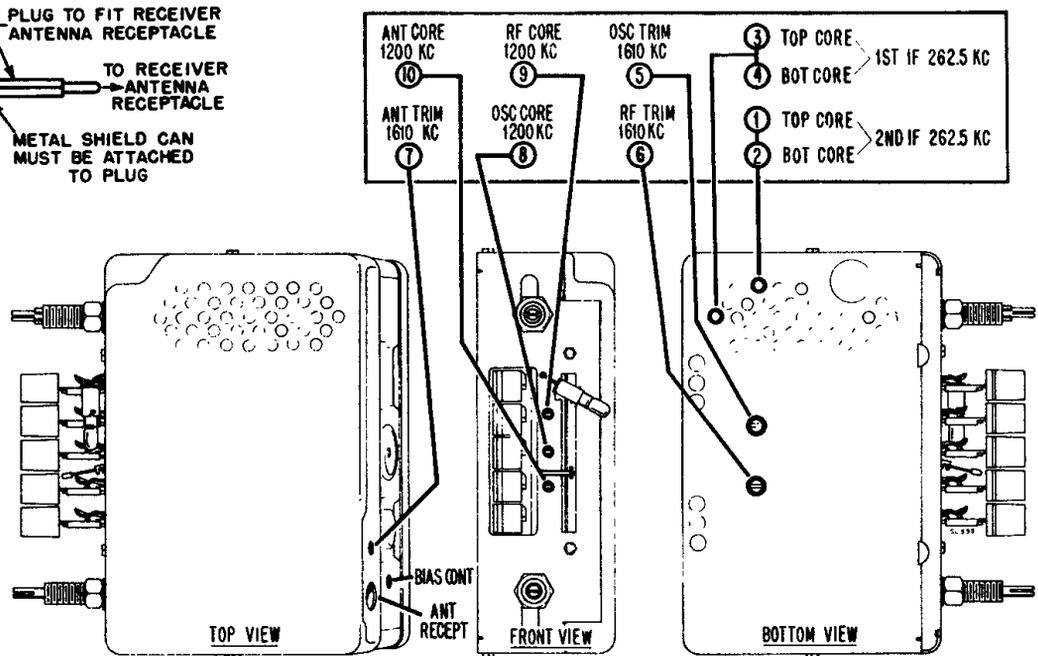
POWER TRANSISTOR INSULATOR - When replacing a power transistor or power transistor insulator, be sure to coat both sides of insulator with DC-4 grease (Motorola Part No. 11M490487) to insure proper heat dissipation.



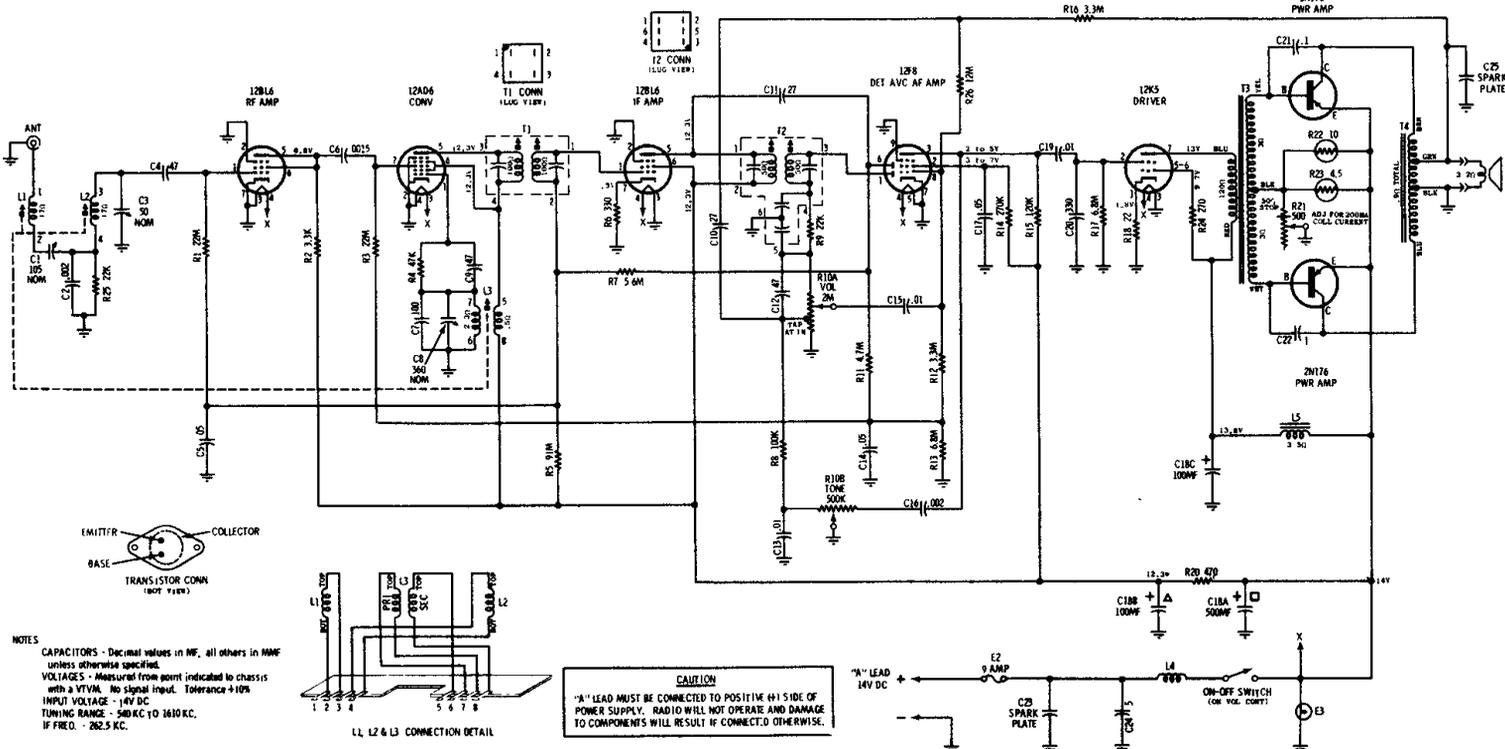
DUMMY ANTENNA DETAIL



IF ALIGNMENT DETAIL



ALIGNMENT POINT LOCATIONS DETAIL



NOTES
CAPACITORS - Decimal values in MF, all others in MMF unless otherwise specified.
VOLTAGES - Measured from point indicated to chassis with a VTVM. No signal input. Tolerance $\pm 10\%$
INPUT VOLTAGE - 14V DC
TUNING RANGE - 540 KC TO 1610 KC.
IF FREQ. - 262.5 KC.

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.