# DELCO

BUICK 981970
OLDSMOBILE 989172
PONTIAC 988978

## SCHEMATIC DATA

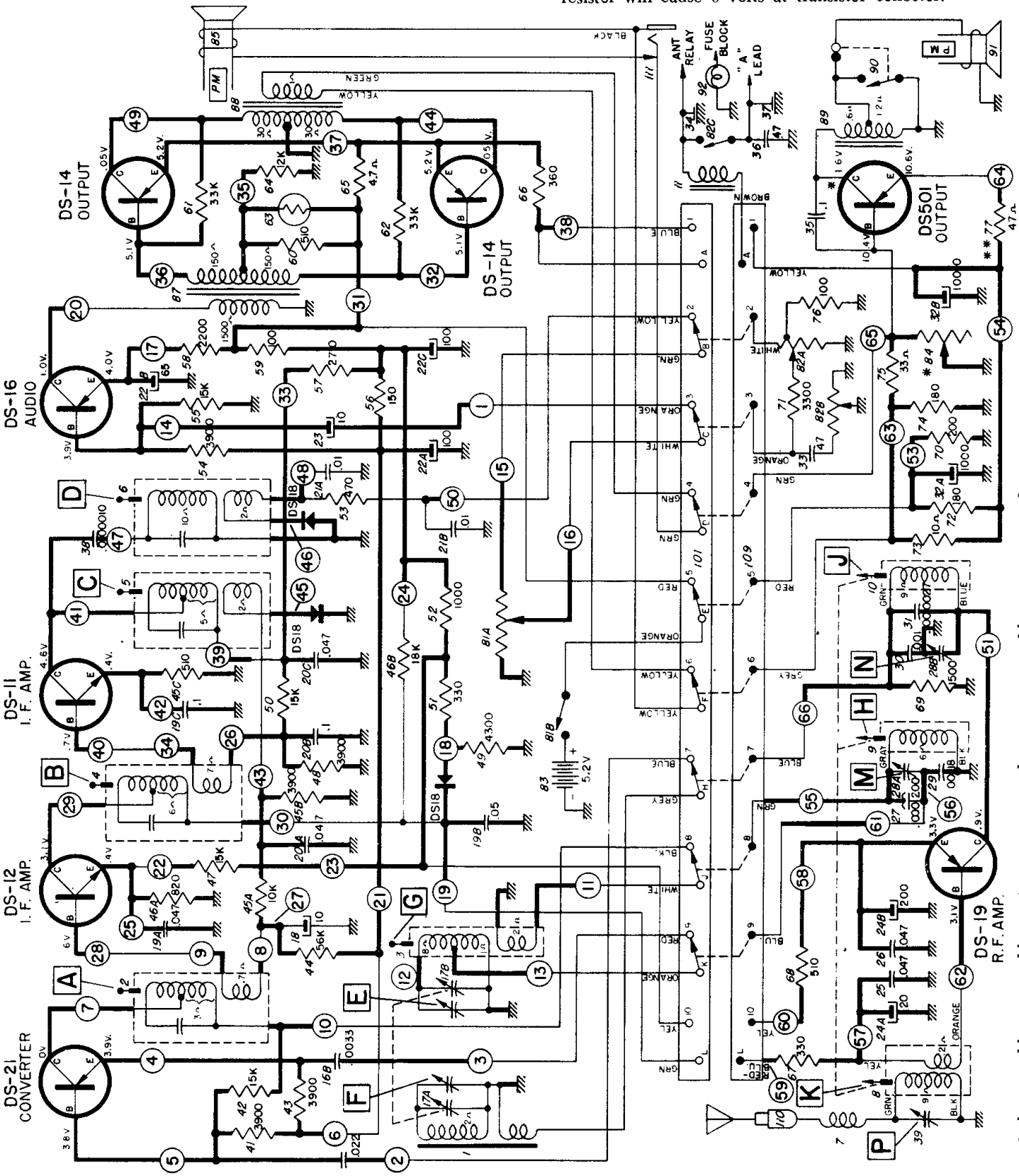
Voltages measured terminal to chassis with a VTVM—no signal. The portable unit voltages are taken with a battery voltage of 5.2 volts. Rack unit voltages taken with 12 volts at Illus. 37.

Total "A" Drain in Car 1.3 amps.
Total "A" Drain of Portable 6 ma.
Tolerance on Voltage ±10%.

Resistances are ±20%. Ohmmeter reading in transistor circuits are affected by meter battery polarity. Check in both directions and use highest reading.

*—Before measuring transistor voltages, the shorting type speaker socket must be opened and a 4 ohm speaker connected. If transistor is replaced, adjust bias potentiometer (Illus. 84) to obtain proper collector voltage with 12 volts input to radio.

**—Illus. 77 is a fuse resistor for the DS 501 transistor. An open fuse resistor will cause 0 volts at transistor collector.




Isolate trouble to portable section or car unit by pulling portable section out of car.

A. If it fails to operate as a portable, trouble is in portable unit.
B. If it operates as a portable but not in the car, trouble is in car unit or car antenna.
C. If it operates in car but not as a portable, check batteries, portable antenna and interconnecting socket

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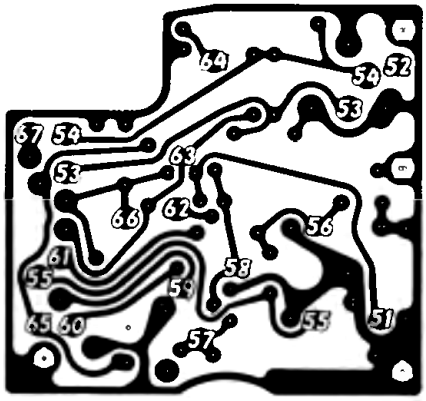
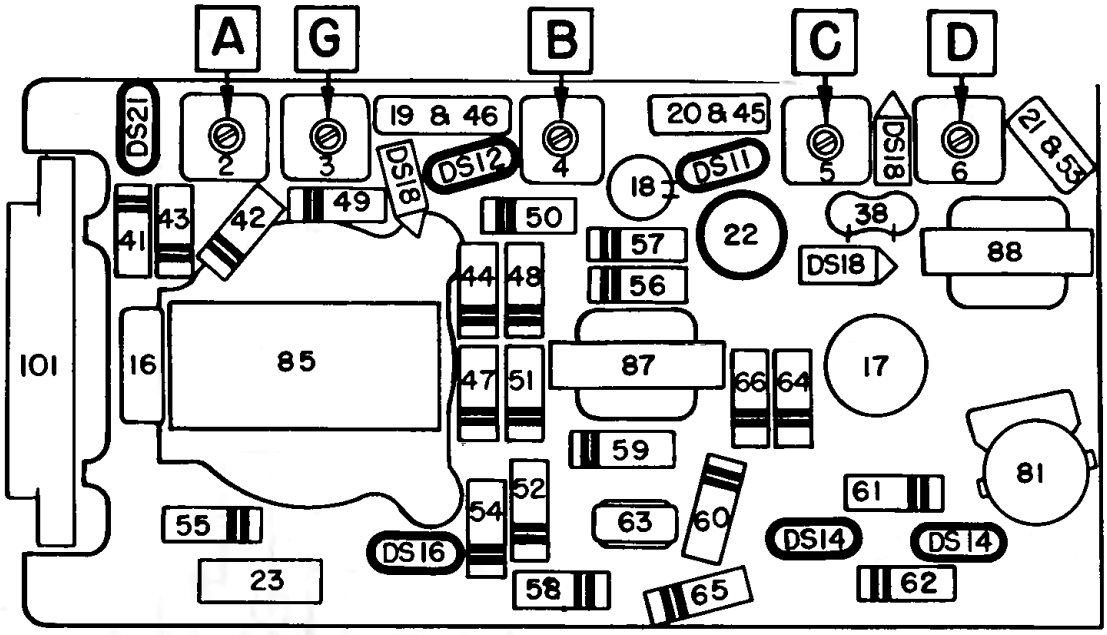
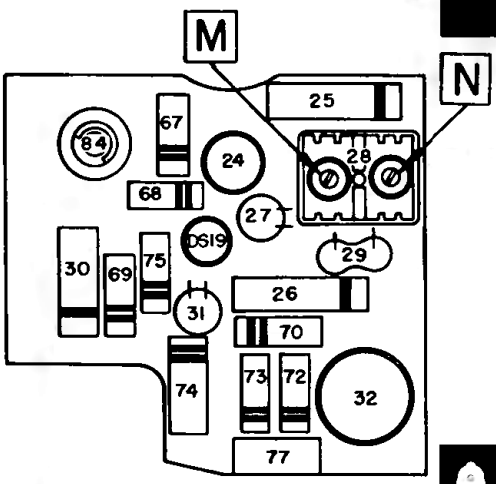
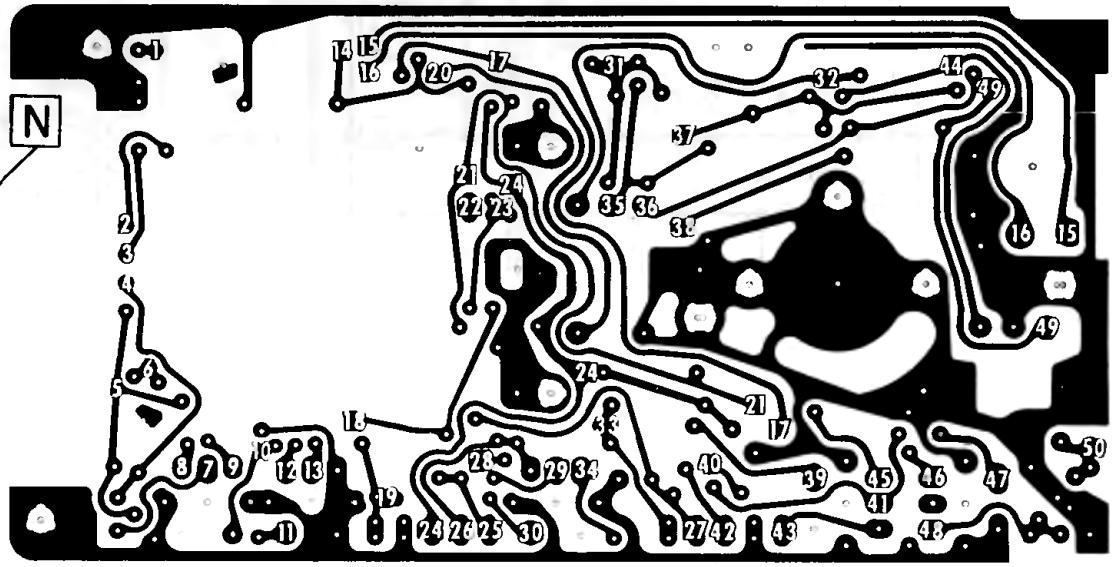
NOTE: WHITE NUMBERS ON PRINTED CIRCUIT DRAWINGS CORRESPOND TO ENCIRCLED NUMBERS ON SCHEMATIC DIAGRAM.

PUSHBUTTON UNIT





## ALIGNMENT

**Set radio volume control to maximum. Read output at speaker; keep below .5 volt.**

| Step | Method Of Connecting Generator | Connect Generator To | Signal Frequency | Tune Receiver To | Adjust In Sequence For Max. Output |
|---|---|---|---|---|---|
| 1 | Thru .1 mfd. Cap. | Converter Base (Island 5) | 465 KC | High freq. stop | A, B, C, D |
| 2 | Pick up loop | By induction to antenna | 1680 KC | High freq. stop | E Trimmer on variable (nearest batteries)<br>F Trimmer on variable (nearest vol. control) |
| 3 | Do not use | Align on noise (Lights, razor, etc.) | Noise | Near 600 KC | G |
| 4 | Pick up loop | By induction to antenna | 1400 KC | Signal Gen. freq. | F |
| | **If it is necessary to align pushbutton tuner, connect portable to it and follow the steps below.** | | | | |
| 5 | .000068 mfd., Cap. | Antenna connector | 1615 KC | High freq. stop | *M, N, P |
| 6 | .000068 mfd., Cap. | Antenna connector | 600 KC | Signal Gen. freq. | J, K |
| 7 | .000068 mfd., Cap. | Antenna connector | 1615 KC | Signal Gen. freq. | N, P |
| 8 | .000068 mfd., Cap. | Antenna connector | 1000 KC | Signal Gen. freq. | L** |

*Before making this adjustment, check mechanical setting of oscillator core "H," with radio tuned to high frequency limit. The rear of the core should be 1⅝" from the mounting end of the coil form. (This measurement is readily made by inserting a ruled plug in the rear of the coil form.)

**L is the pointer adjustment screw which is on the connecting link, between the pointer assembly and the parallel guide bar. It should be adjusted so that the dial pointer corresponds with the 1100 KC mark on the dial.