

## GROUP 8—ELECTRICAL

### GENERAL INFORMATION

All instruments are mounted in a single cluster housing which is fastened in the panel with metal screws. Instruments include a speedometer mounted to the left of the steering column center line, a tachometer or vacuum gauge (customers option) centered over the column center line and the instrument group mounted to the right of the column. The instrument group consists of the alternator, fuel, oil and temperature gauges.

A conventional push-pull headlight panel dimmer switch is mounted in the far left of the cluster with the odometer reset knob and emergency flasher switch next to the speedometer. Directly over the tachometer are the turn signal indicator lights. The high beam indicator light is mounted to the lower left of the tachometer and the brake warning indicator on the opposite side. The windshield wiper-

washer switch is in the cluster bezel to the right of instrument group. The ignition switch is in the panel sheet metal directly to the right of the steering column.

Cluster light bulbs and gauges are mounted on printed circuit boards on the back of the cluster housing. The wire harness is connected to the printed circuit boards with two multiple connectors. Current is carried to the bulbs and gauges from the connectors through die cut copper foil strips.

The instruments operate on a constant voltage principle with the voltage limiter integral with the fuel gauge. Wired in parallel, the voltage limiter provides a regulated voltage to the gauges.

Test procedures IN THE VEHICLE remain the same as outlined in the Plymouth Service Manual; however, because the voltage limiter is integral with the fuel gauge TESTS OUT OF VEHICLE are different. See "Service Procedures".

### SERVICE PROCEDURES

#### LIGHT BULBS

The instrument cluster must be tipped forward out of panel to replace indicator bulbs and cluster illuminating bulbs. Follow steps 1 through 5 of the "Instrument Cluster Removal" procedure and this will permit access to all bulb sockets. Sockets must be turned  $\frac{1}{4}$  turn counterclockwise to be removed from printed circuit board.

#### INSTRUMENT CLUSTER

##### Removal

- (1) Disconnect battery ground cable.
- (2) Tape top of steering column to prevent damaging painted surface. Reaching up under panel, disconnect speedometer cable and multiple connector from left printed circuit board.
- (3) Remove radio knob and mounting nuts.

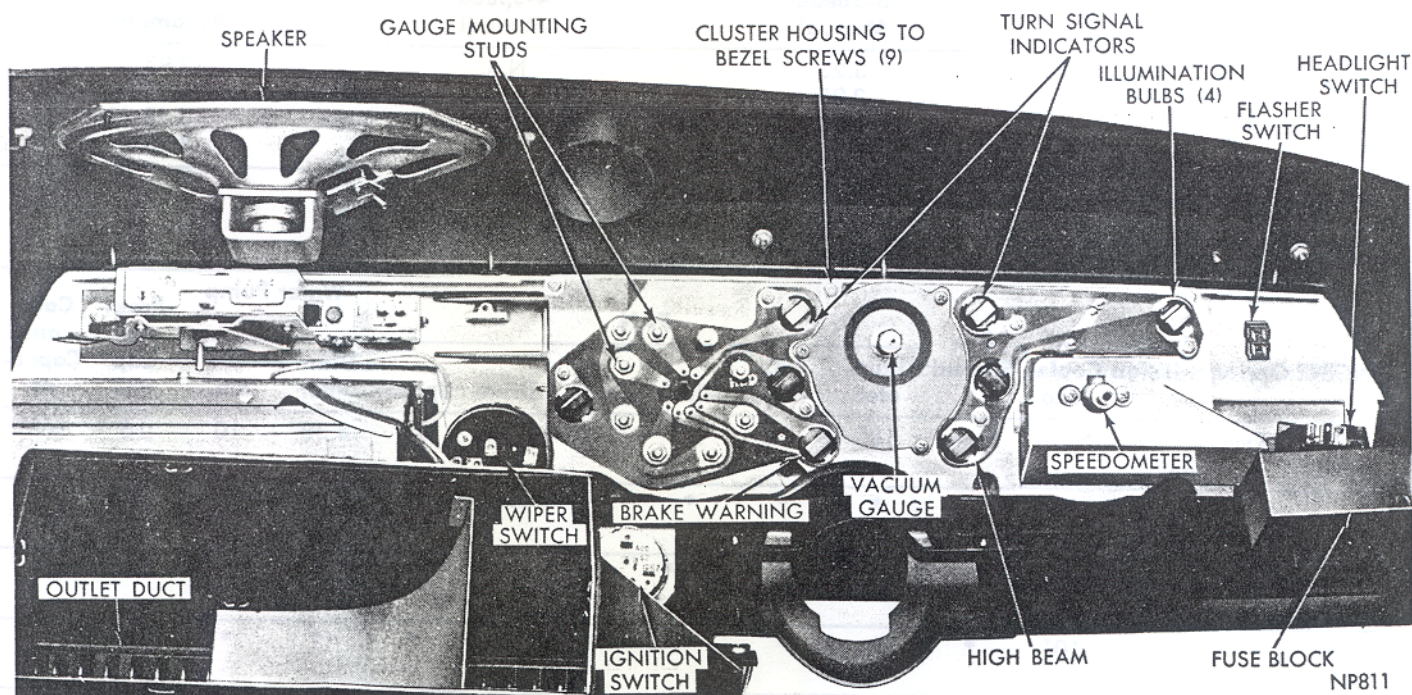


Fig. 1—Instrument Panel—Rear View