# HORNS

CONTENTS



## GENERAL INFORMATION

**WARNING: ON VEHICLES EQUIPPED WITH AIRBAG, SEE GROUP 8M, RESTRAINT SYSTEMS FOR STEERING WHEEL OR COLUMN REMOVAL PROCEDURES.**

The horn circuit consists of a horn switch, horn relay, and horns. The horn circuit feed is from the fuse box to the number 1 terminal on the horn relay. When the horn switch is depressed, it completes the ground circuit. Then the horn relay coil, closing a set of contacts in the relay allowing current to flow to the horns. The horn is grounded to the headlamp ground (Fig. 1).

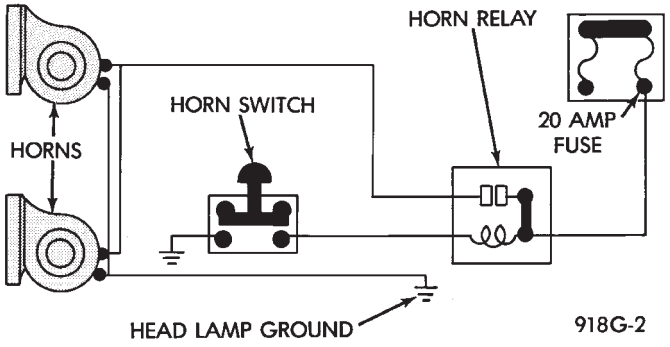


*Fig. 1 Conventional Horn System*

## TESTING HORN SYSTEM

### *HORNS WILL NOT SOUND*

If the horns do not sound, check for a blown horn fuse in the fuse block. If the fuse is blown, replace it with the same fuse type. If the horns fail to sound and the new fuse blows when depressing the horn switch, a short circuit in the horn or the horn wiring between the fuse terminal and the horn is responsible.

If the fuse is intact, disconnect wire connector at horn and connect one lead of a test lamp to the positive wire terminal and the other lead to ground wire terminal (Fig. 2). Depress the horn switch, the test lamp should illuminate. If not connect the test lamp wire to a good ground and depress the horn switch. If test lamp lights inspect ground wire circuit and repair as needed.

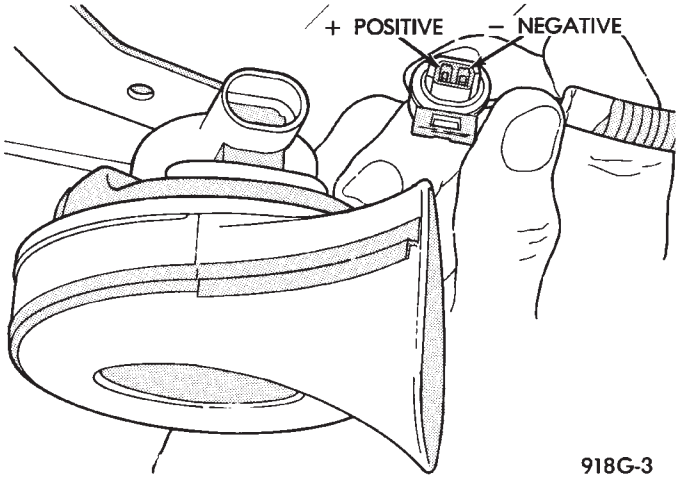


*Fig. 2 Horn and Connector*

If the test lamp fails to illuminate, check for a defective horn relay. Substituting a known good horn relay in the circuit. If the test lamp illuminates when depressing the horn switch, the original relay is defective. If the test lamp fails to illuminate with a known good relay, unplug that relay. Connect a jumper wire from the battery terminal to the horn terminal on the relay terminal board (Fig. 3, 4, or 5). If the test lamp connected in place of the horns, fails to illuminate an open circuit in the wiring between the relay terminal and the horn switch is at fault repair as necessary.

### *HORNS SOUND CONTINUOUSLY*

**CAUTION: Continuous sounding of horns may cause relay to fail.**

Should the horns sound continuously, unplug the horn relay from the terminal board inside the passenger compartment. Plug in a known good relay. If the horns stop blowing, relay is defective and must be replaced. Should the horns still sound, proceed as follows: Connect one voltmeter lead to battery terminal on relay board and the other lead to switch terminal. Refer to Figs. 6, 7, or 8. Voltmeter will register battery voltage when the wire to the horn switch is shorted to ground or the horn switch is defective.

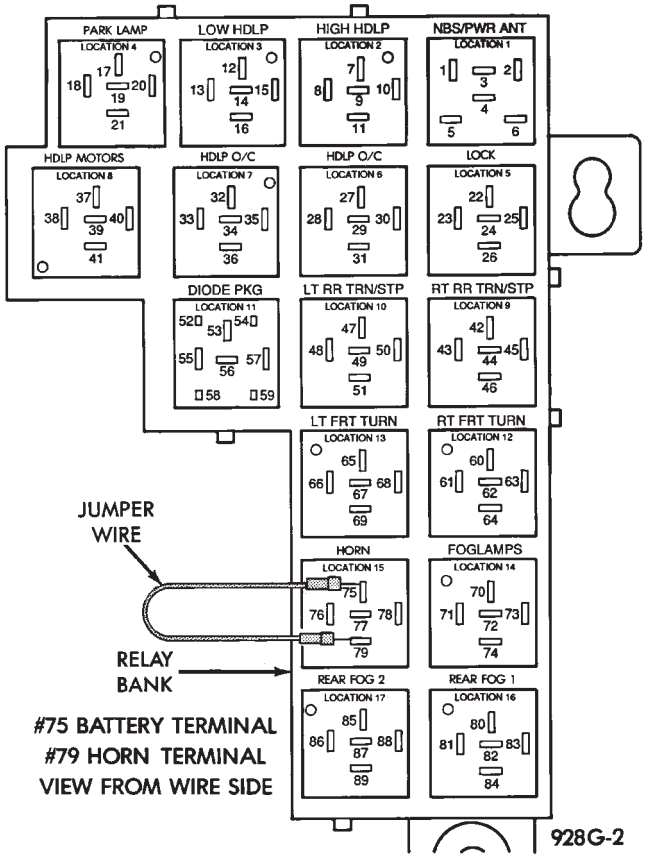


*Fig. 3 Testing for an Open Circuit—AG and AJ Bodies*

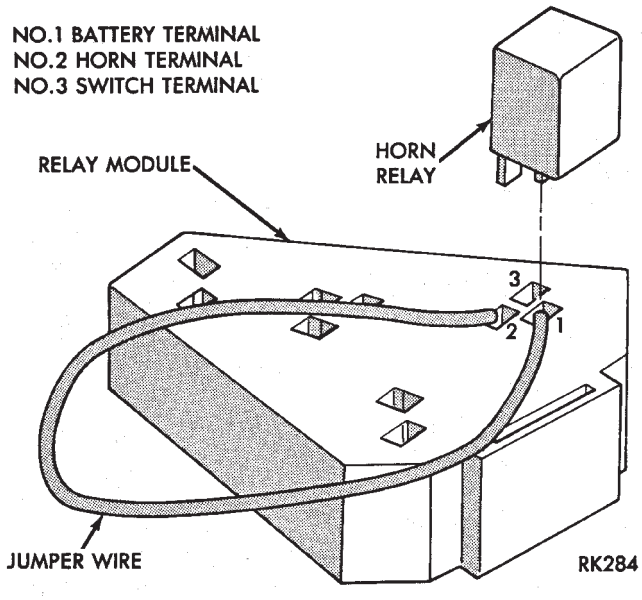


*Fig. 4 Testing for an Open Circuit—AP and AA Bodies*

Remove steering wheel horn pad and disconnect wire from horn switch. Repeat the above test and if the test lamp still illuminates, wire is shorted and should be repaired. If test lamp does not illuminate, horn switch is defective and must be replaced.

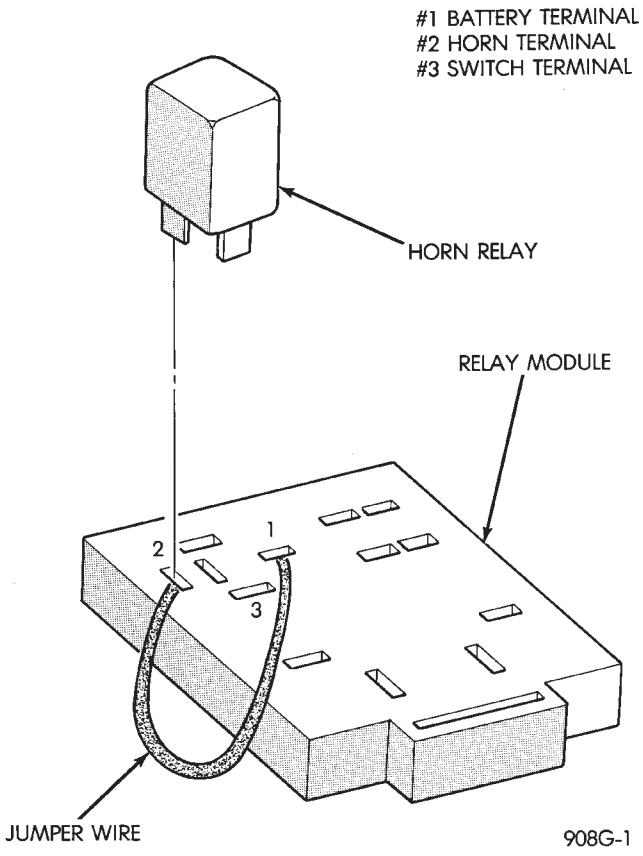


*Fig. 5 Testing for an Open Circuit—AC and AY Bodies*

*DIAGNOSIS TESTING*

Horn does not sound, horn sounds intermittently, or horn sounds continuously go to Horn Diagnosis Chart (Fig. 9).

## HORN SWITCH REPLACEMENT

**WARNING: BEFORE BEGINNING ANY AIRBAG SYSTEM REMOVAL OR INSTALLATION PROCEDURES, REMOVE AND ISOLATE THE NEGATIVE (-) BATTERY CABLE (GROUND) FROM THE VEHICLE BATTERY. THIS IS THE ONLY SURE WAY TO DISABLE THE AIRBAG SYSTEM. FAILURE TO DO THIS COULD RESULT IN ACCIDENTAL AIRBAG DEPLOYMENT AND POSSIBLE PERSONAL INJURY.**

(1) Disconnect and isolate negative battery cable in engine compartment.

(2) Remove four retaining nuts from back of steering wheel. Remove airbag module (Fig. 10 and 11).

(a) Disconnect wire from rear of airbag module.

(b) Place airbag module on a clean level surface with pad facing upward.

(3) Remove horn switch assembly from steering wheel.

(a) On luxury steering wheel (Fig. 10), pry out two trim cover buttons on back of steering wheel to access retaining screws for the horn switch. The

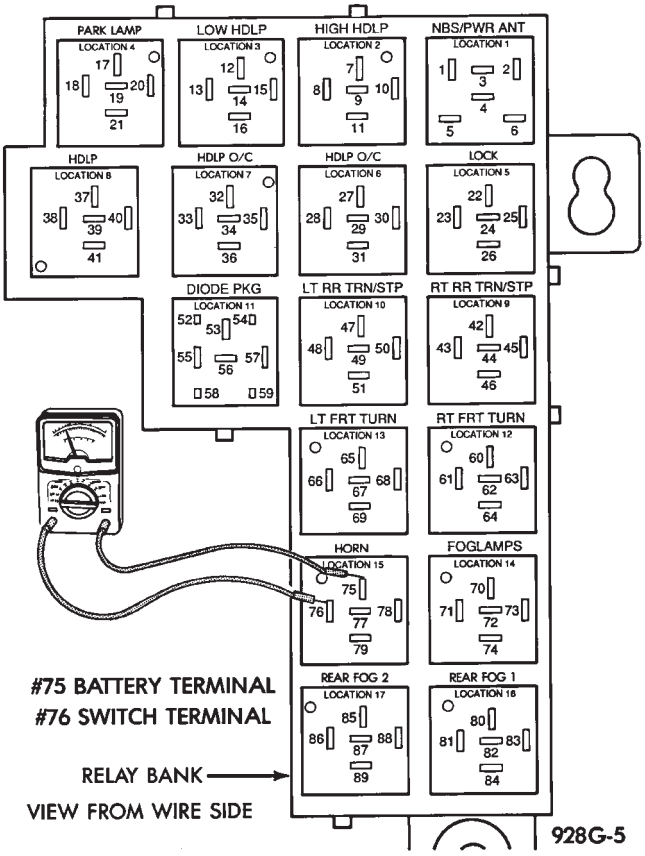


*Fig. 6 Testing for Short to Ground—AG and AJ Bodies*

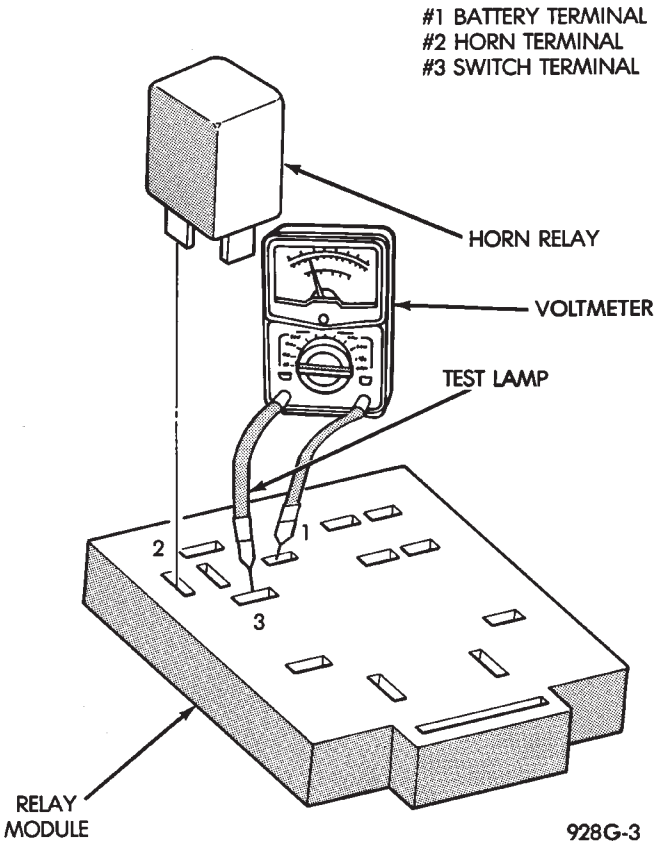


*Fig. 7 Testing for Short to Ground—AC and AY Bodies*

sport steering wheel (Fig. 11) the horn screws are accessible after the Air Bag is removed.

(b) Remove two screws and disconnect horn wires located in the lower portion of steering wheel. Feed wires through the access ports and remove horn switch.

(4) For installation reverse the above procedures. Use caution not to pinch wires.

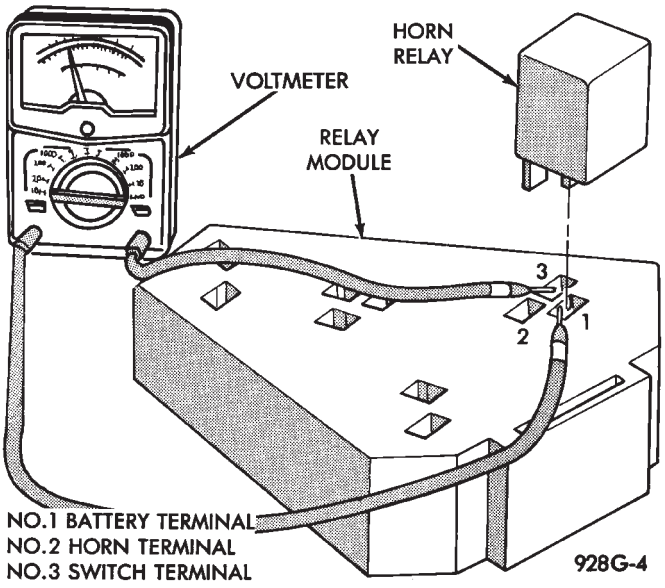


*Fig. 8 Testing Horn for Continuous Sound— AP and AA Bodies*

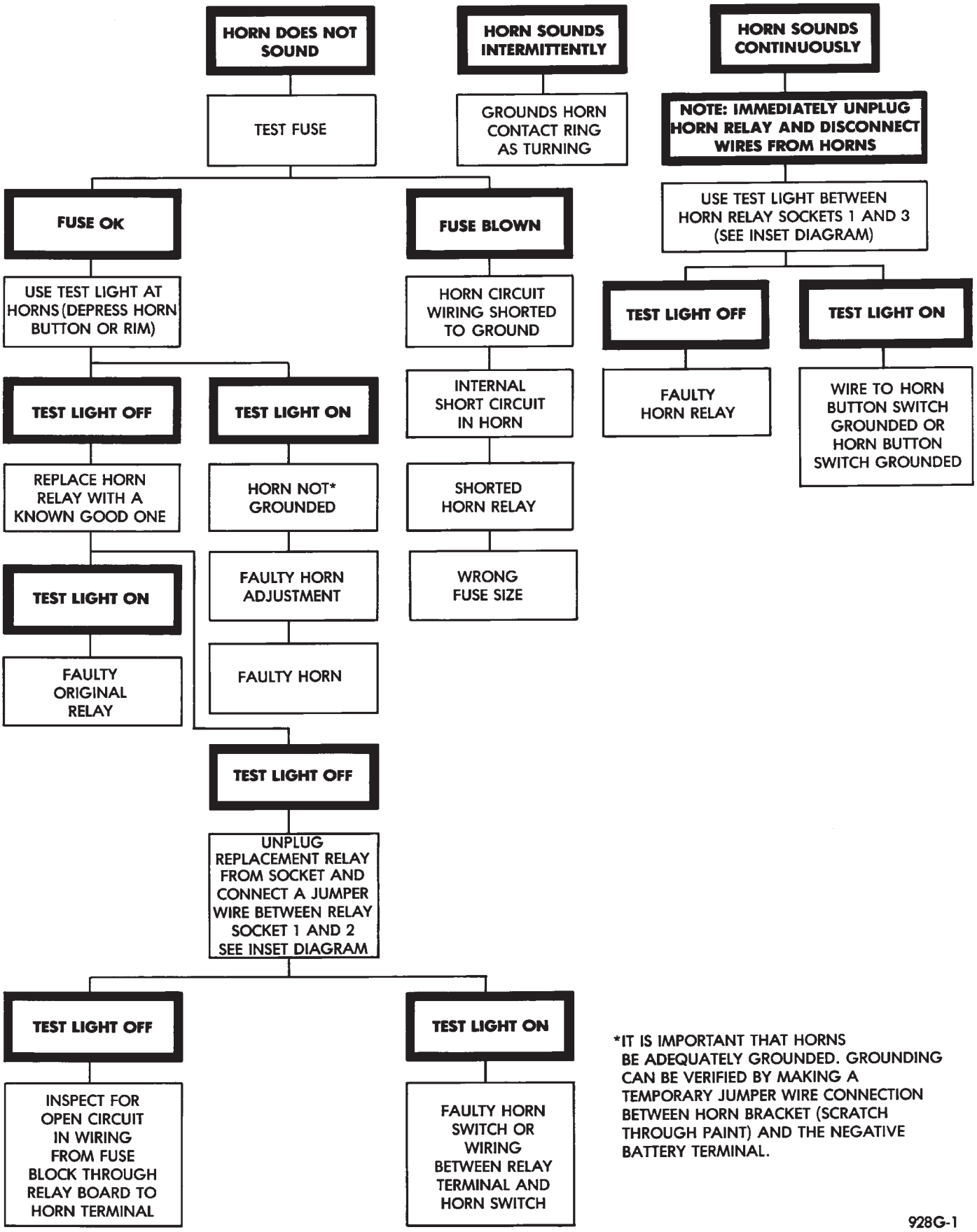


*Fig. 9 Horn Diagnosis*

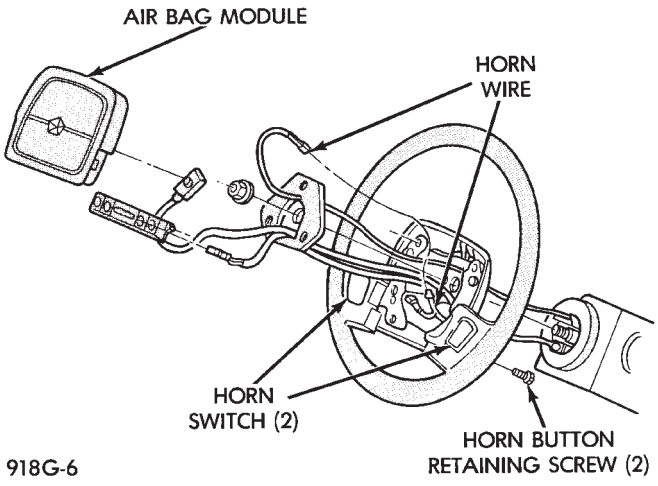


*Fig. 10 High Line Steering Wheel*

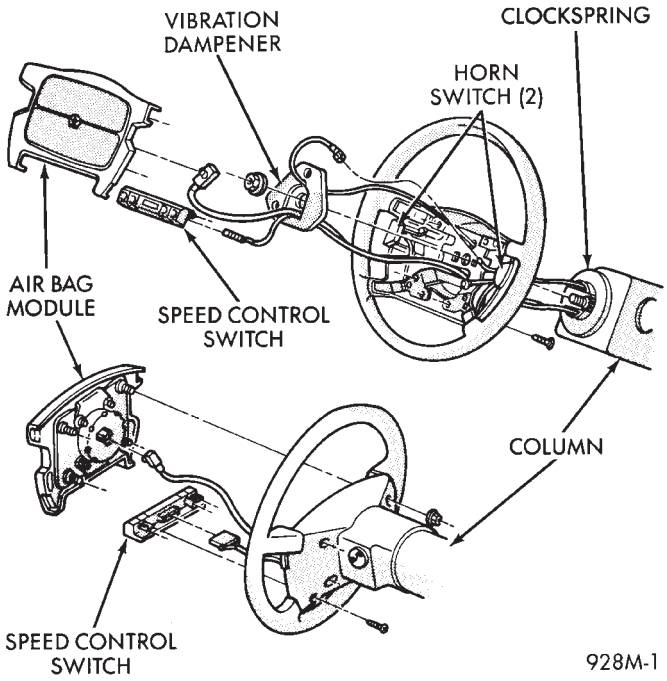


*Fig. 11 Low Line Steering*