

HORNS

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GENERAL INFORMATION

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

The horn circuit consists of a horn switch, horn relay, and horns. On all models the relay plugs into the relay bank. The horn circuit feed is from the fuse box to the number 1 terminal on the horn relay. When the horn switch is depressed, this completes the ground. A set of contacts in the horn relay closes, which allows current to flow to the horn(s).

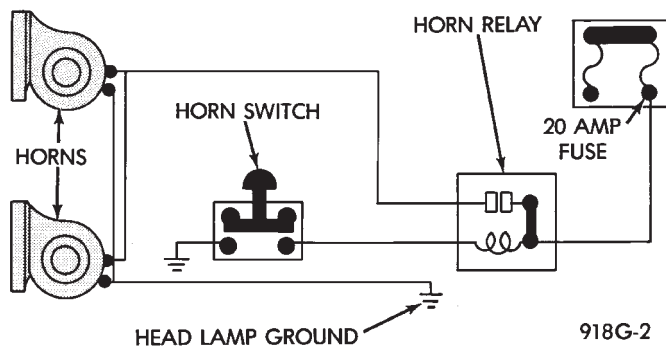


Fig. 1 Horn System

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 type fuse. If the fuse blows immediately there is a short between the fuse and horn relay. The fuse blows when depressing the switch, a short circuit in the horn or wiring between the horn relay and the horn is responsible.

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

If the test lamp fails to illuminate, check for a defective horn relay. Substituting a known good horn

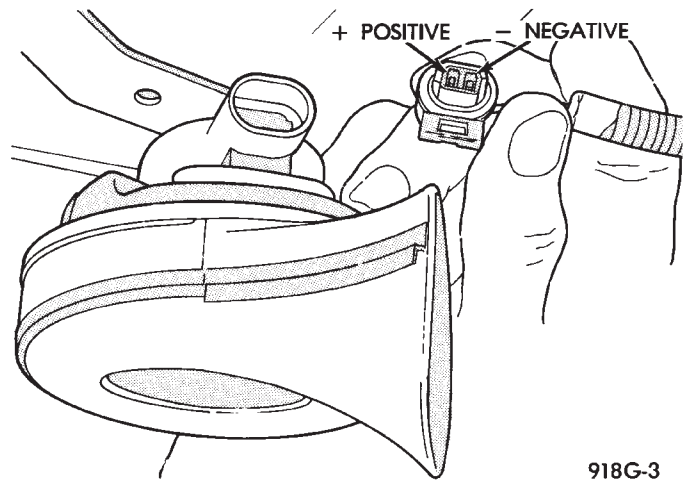


Fig. 2 Horn and Connector

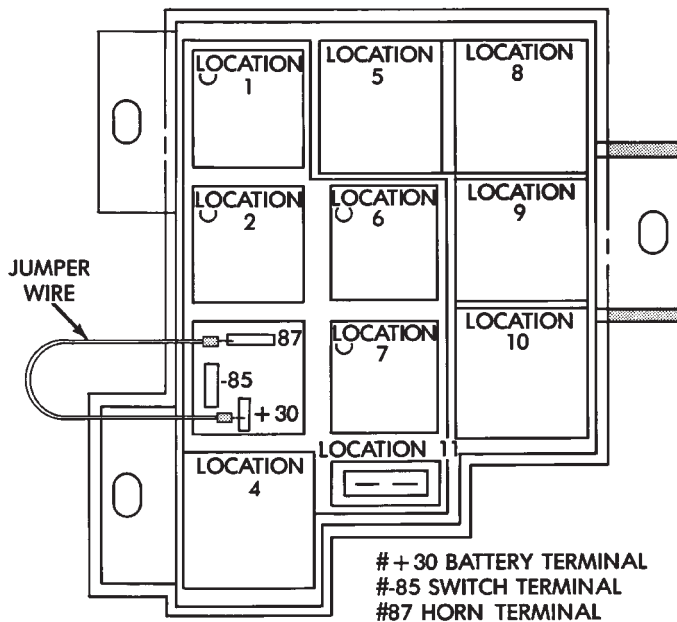
relay in the circuit. If the test lamp illuminates when depressing the horn switch, the original relay is defective. Also, listen or the relay to click, when the horn button is depressed. If the relay clicks the battery feed to the relay and horn switch circuit is OK. If the lamp fails to illuminate 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). If the lamp connected in place of the horns fails to illuminate, an open circuit in the wiring between the relay terminal and the horn or between the fuse and relay is at fault.

If the lamp illuminates, horn switch is defective or an open circuit in the wiring between the relay terminal and the horn switch is at fault.

HORNS SOUND CONTINUOUSLY

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

If 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 horn's still sound, proceed as follows:



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Fig. 3 Testing for an Open Circuit

(1) Connect one voltmeter lead to battery terminal on relay board and the other lead to switch terminal (Fig. 4).

(2) Voltmeter will register battery voltage when the wire to the horn switch is shorted to ground or the horn switch is defective.

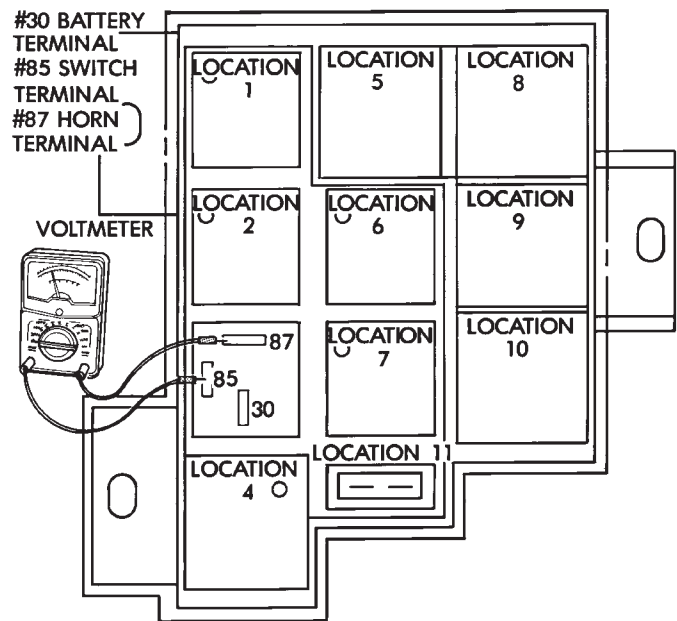
Remove steering wheel horn pad and disconnect wire from horn switch. Repeat the above test and if the test lamp still illuminates, wire is shorted and should be repaired. If test lamp does not illuminate, horn switch is defective and must be replaced.

DIAGNOSIS TESTING

Horn does not sound, horn sounds intermittently, or horn sounds continuously go to Horn Diagnosis Chart (Fig. 5).

HORN SWITCH REPLACEMENT

WARNING: BEFORE BEGINNING ANY AIR BAG SYSTEM REMOVAL OR INSTALLATION PROCEDURES, REMOVE AND ISOLATE THE NEGATIVE (-) BATTERY CABLE (GROUND) FROM THE VEHICLE BATTERY. THIS IS THE ONLY SURE WAY TO DIS-



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Fig. 4 Testing for Short to Ground

ABLE THE AIR BAG SYSTEM. FAILURE TO DO THIS COULD RESULT IN ACCIDENTAL AIR BAG DEPLOYMENT AND POSSIBLE PERSONAL INJURY.

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

(2) Remove four retaining nuts from back of steering wheel. Remove air bag module (Fig. 6 and 7).

(a) Disconnect wire from rear of air bag module.

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

(3) Remove horn switch assembly from steering wheel.

(a) On high line steering wheel (Fig. 6), pry out two trim cover buttons on back of steering wheel to access retaining screws for the horn switch. The low line steering wheel (Fig. 7) 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.

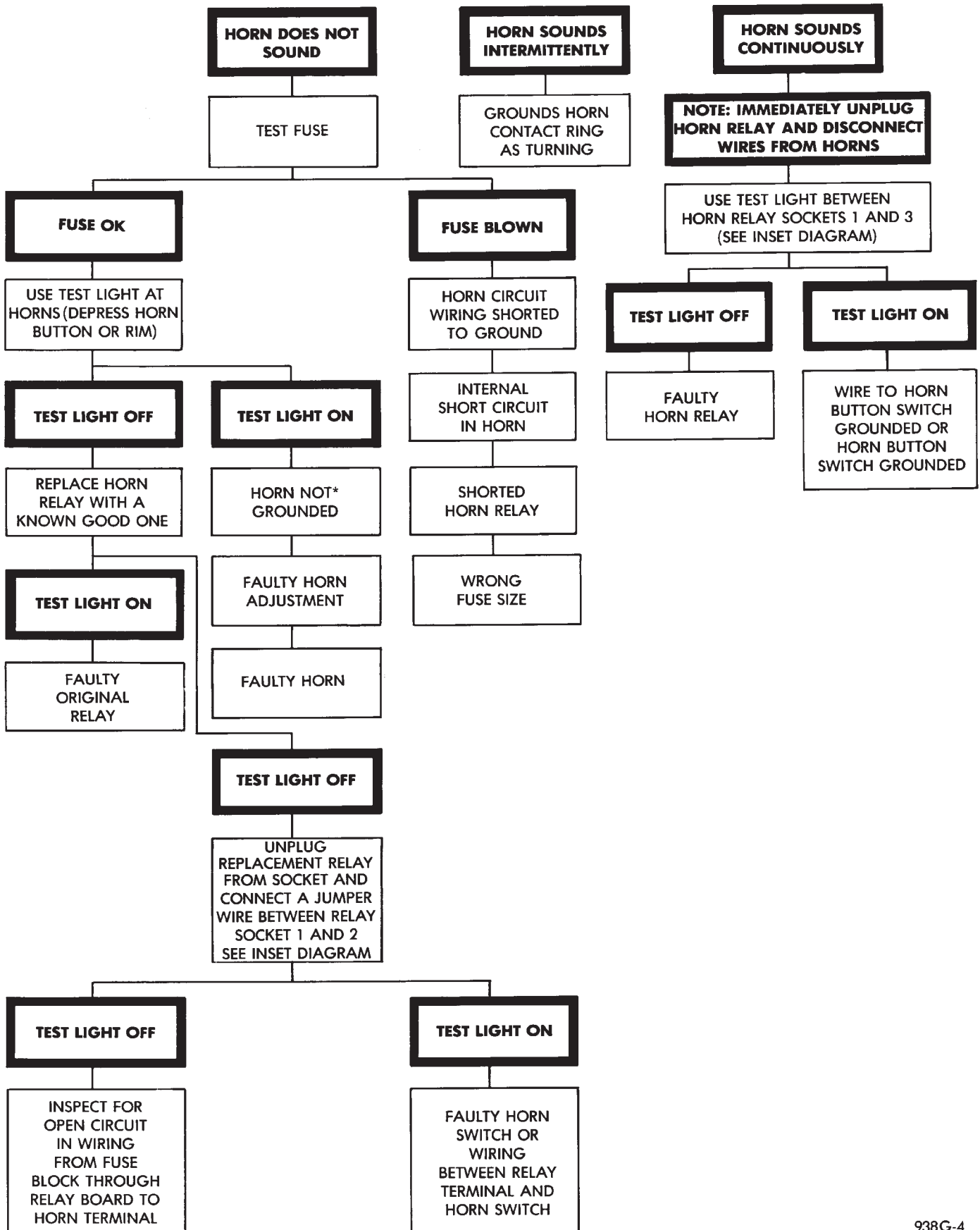
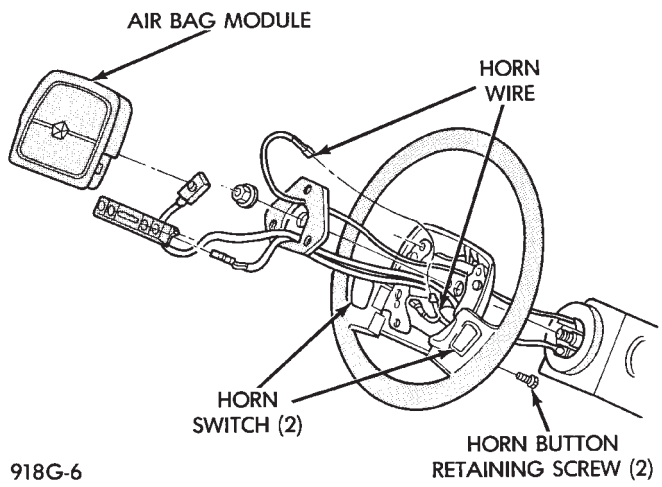
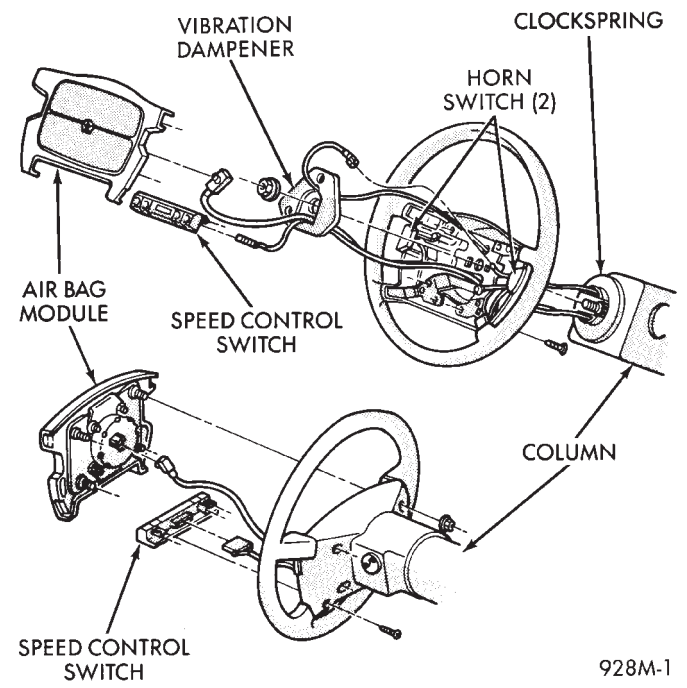


Fig. 5 Horn Diagnosis



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Fig. 6 High Line Steering Wheel



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Fig. 7 Low Line Steering