

HORNS

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GENERAL INFORMATION

For XJ/YJ vehicles battery voltage is applied to the horn relay through a fuse.

When the horn switch is depressed, the horn relay is grounded, pulling the contact closed and providing battery voltage to the horns.

A slip ring and brush arrangement in the steering wheel allows the switch circuit to maintain contact while allowing rotation of the steering wheel.

On XJ models, a cadmium-plated ground screw is used to attach the horn(s) to the body. Do not substitute other types of ground screws as they may become corroded and cause a loss of ground.

XJ

REPLACEMENT

- (1) Raise and support the vehicle.
- (2) Remove the splash shield.
- (3) Remove horn mounting bolt and horn mounted on the drivers side (Fig. 1).
- (4) Remove wire from horn.
- (5) To install horn, reverse the removal procedures.

DIAGNOSIS AND REPAIR

Refer to Group 8W - Wiring Diagrams for a complete circuit diagram.

HORN RELAY

- Inspect 25 amp, #11 fuse. Replace fuse as required.
- Depress horn switch. The relay contacts should click. If OK, go to HORNS. If not, go to next step.
- Remove the horn relay located in the relay center. The relay center is on the lower instrument panel trim cover just right of the steering column (Fig. 2). There should be 12 volts at relay connector pins 1 and 2. If not, repair open in circuit to relay.
- Depress horn switch. Measure resistance between relay connector pin 5 and ground. The meter should read zero ohms. If not, repair open to horn switch ground.
- Measure resistance between relay connector pin 4 and ground. The meter should read almost zero ohms (horn resistance) If OK, replace relay. If not, repair open in circuit between relay and horns.

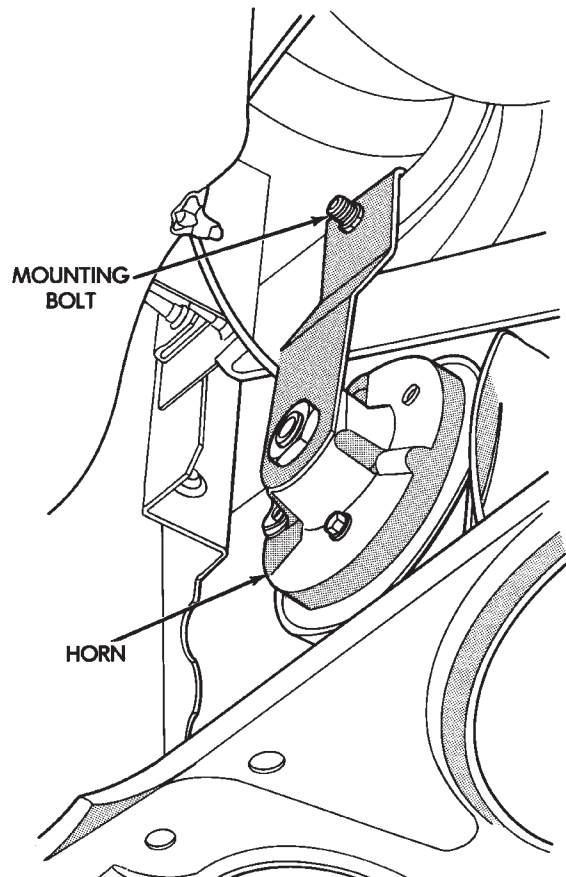


Fig. 1 Drivers Side Horn

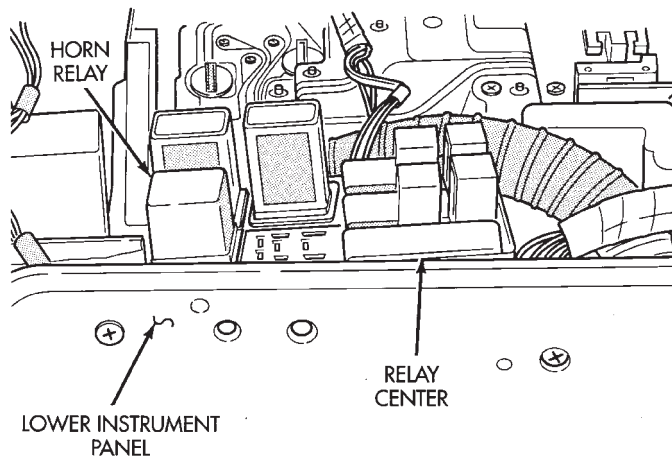


Fig. 2 Horn Relay

J938G-5

Wrangler/YJ horns are located on the drivers side inner fender.

REPLACEMENT

- (1) Disconnect wire harness connector from the horn (Fig. 3).
- (2) Remove horn and bracket mounting bolt. Horn and bracket are removed as an assembly.
- (3) To install, reverse the removal procedures.

DIAGNOSIS AND REPAIR

Refer to Group 8W - Wiring Diagrams for a complete circuit diagram.

HORN RELAY

- Inspect 10 amp fuse, #F15, located in the power distribution center (PDC). Replace fuse as required.
- Depress horn switch. The relay contacts should click. If OK, go to HORN. If not, go to next step.
- Remove relay from PDC. There should be 12 volts at cavities 2 and 5. If not, repair open in circuit to relay.
- Depress horn switch. Measure resistance between relay cavity 1 and ground. The meter should read zero ohms. If not, repair open to horn switch ground.
- Measure resistance between relay cavity 4 and ground. The meter should read almost zero ohms (horn resistance) If OK, replace relay. If not, repair open in circuit between relay and horn.

HORNS

- Disconnect horn connector. Depress horn switch. There should be 12 volts at the horn connector. If not, repair open to relay.
- Measure the resistance between the horn bracket and chassis ground. The meter should read zero ohms. If not, check mounting screw for corrosion and replace as necessary.
- If above steps do not identify a problem, replace horns.

YJ

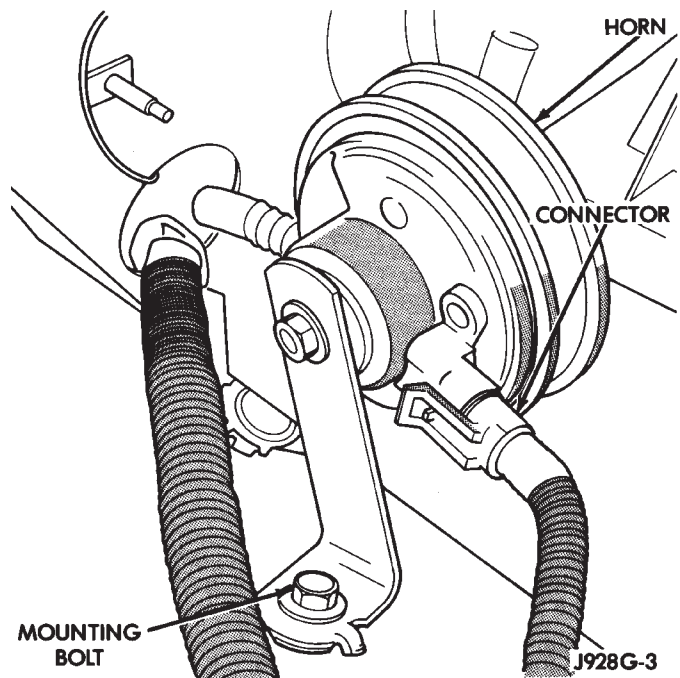


Fig. 3 Horn Removal/Installation—YJ

HORN

- Disconnect horn connector. Depress horn switch. There should be 12 volts at the horn connector pin A. If not, repair open to relay.
- Measure the resistance between the horn connector pin B and chassis ground. The meter should read zero ohms. If not, repair open to ground.
- If above steps do not identify a problem, replace horn.

HORN SWITCH (HORN PAD) REPLACEMENT

- (1) Disconnect negative cable from battery.
- (2) Remove horn button by pulling straight up.
- (3) Remove horn button components (Fig. 4).
- (4) To install the switch, reverse the removal procedures.

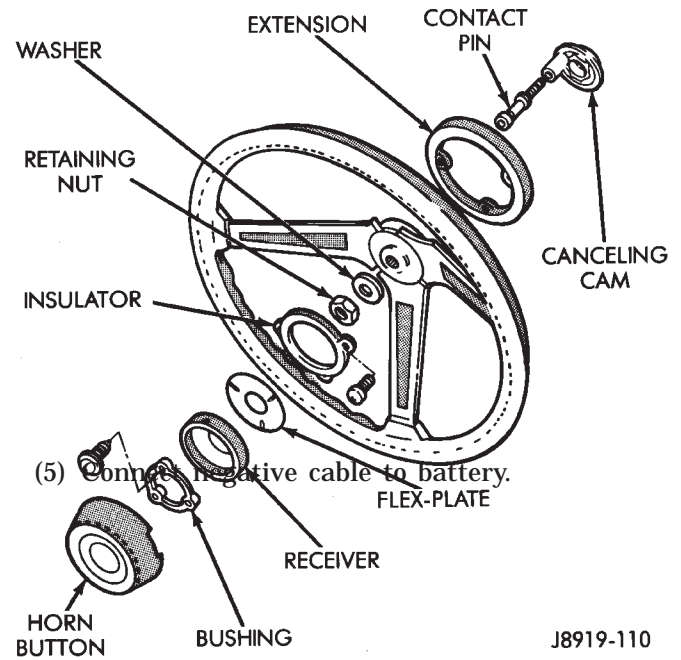


Fig. 4 Steering Wheel Removal/Installation

TORQUE SPECIFICATIONS

COMPONENT	TORQUE
Horn Bracket Screw	20 N·m (15 ft. lbs.)

J918G-4

