Component Procedures: Horn Relay

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Parts and Labor (itype_189)

Parts

Qualifier	Part #	Name	Price	Note
Horn Relay	4638094	Fuel Pump Relay	3.45	

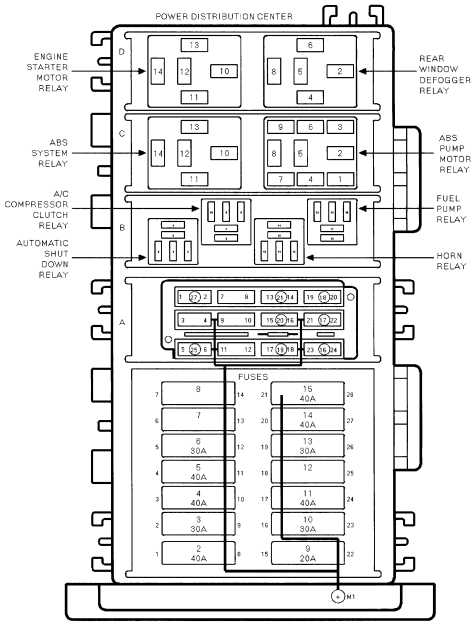
Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Replace	Horn Relay, R&R	B	0.4	0.2

Components (itype_392)

DESCRIPTION
The
horn relay
is a electromechanical device that switches battery current to the
horn
when the
horn switch
grounds the relay coil. The horn relay is located in the Power Distribution Center
(PDC)
in the engine compartment. If a problem is encountered with a continuously sounding horn, it can usually be quickly resolved by removing the horn relay from the PDC until further diagnosis is completed. See the fuse and relay layout label affixed to the inside surface of the PDC cover for horn relay identification and location.
The horn relay is a International Standards Organization
(ISO)
micro-relay. Relays conforming to the ISO specifications have common physical dimensions, current capacities, terminal patterns, and terminal functions. The ISO micro-relay terminal functions are the same as a conventional ISO relay. However, the ISO micro-relay terminal pattern (or footprint) is different, the current capacity is lower, and the physical dimensions are smaller than those of the conventional ISO relay
The horn relay cannot be repaired or adjusted and, if faulty or damaged, it must be replaced.
OPERATION
The ISO relay consists of an electromagnetic coil, a resistor or diode, and three (two fixed and one movable) electrical contacts. The movable (common feed) relay contact is held against one of the fixed contacts (normally closed) by spring pressure. When the electromagnetic coil is energized, it draws the movable contact away from the normally closed fixed contact, and holds it against the other (normally open) fixed contact. When the electromagnetic coil is de-energized, spring pressure returns the movable contact to the normally closed position. The resistor or diode is connected in parallel with the electromagnetic coil in the relay, and helps to dissipate voltage spikes that are produced when the coil is de-energized.

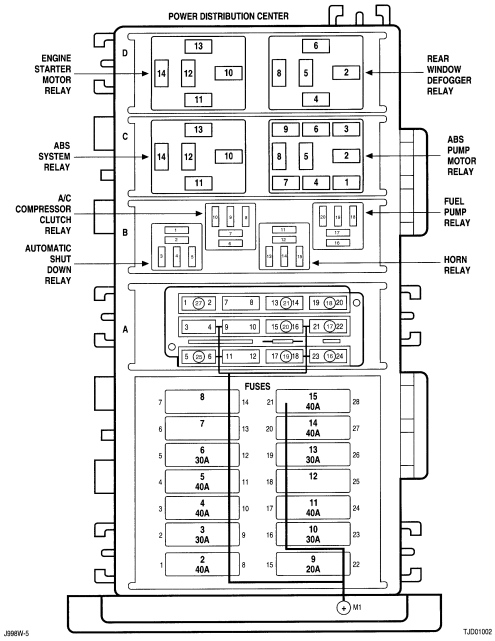
Connector Views (itype_47)



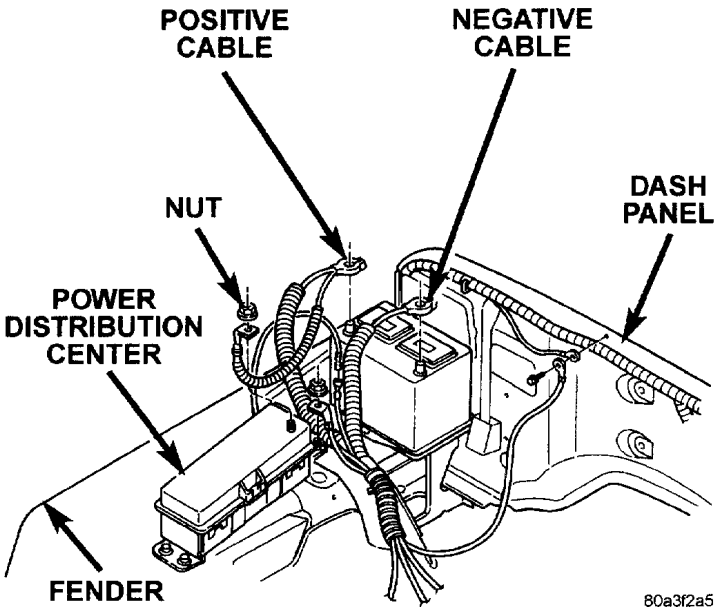
HORN RELAY

CAV	CIRCUIT	FUNCTION
B11	F31 18VT	FUSED B(+)
B12	X2 18WT/RD	HORN RELAY OUTPUT
B13	F31 18VT	FUSED B(+)
B14	-	-
B15	X3 20RD/YL	HORN RELAY CONTROL

Components (itype_32)



Procedures (itype_376)



Technician Safety Information (itype_15)

WARNING: ON VEHICLES EQUIPPED WITH AIRBAGS, REFER TO RESTRAINT SYSTEMS / AIRBAG SYSTEMS BEFORE ATTEMPTING AI STEERING WHEEL, STEERING COLUMN, OR INSTRUMENT PANEL COMPONENT DIAGNOSIS OR SERVICE. FAILURE TO TAKE THE PROPER PRECAUTIONS COULD RESULT IN ACCIDENTAL AIRBAG DEPLOYMENT AND POSSIBLE PERSONAL INJURY

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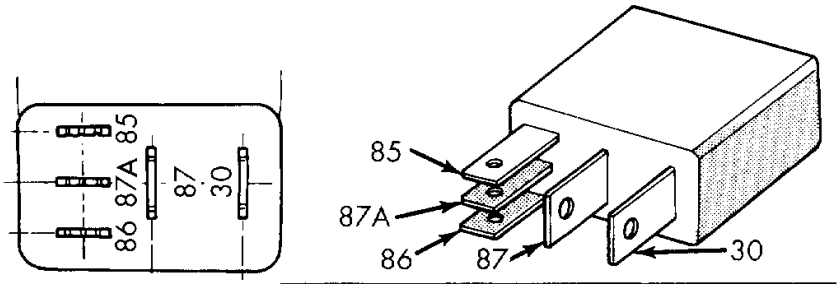
Component Tests and General Diagnostics (itype_383)



TERMINAL LEGEND	
NUMBER	**IDENTIFICATION**
30	COMMON FEED
85	COIL GROUND
86	COIL BATTERY
87	NORMALLY OPEN
87A	NORMALLY CLOSED

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