

Component Procedures: Cigarette Lighter Relay

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Component Procedures: Cigarette Lighter Relay

Components (itype_392)

DESCRIPTION

The accessory relay is an electromechanical device that switches fused battery current to the standard accessory power outlet or optional cigar lighter

when the ignition switch is turned to the Accessory or On positions. The accessory relay is located in a wire harness connector that is secured to the 100-way connector bracket under the driver side of the instrument panel

, near the cowl side inner panel in the passenger compartment.

The accessory relay is a International Standards Organization (ISO)

relay. Relays conforming to the ISO specifications have common physical dimensions, current capacities, terminal patterns, and terminal functions.

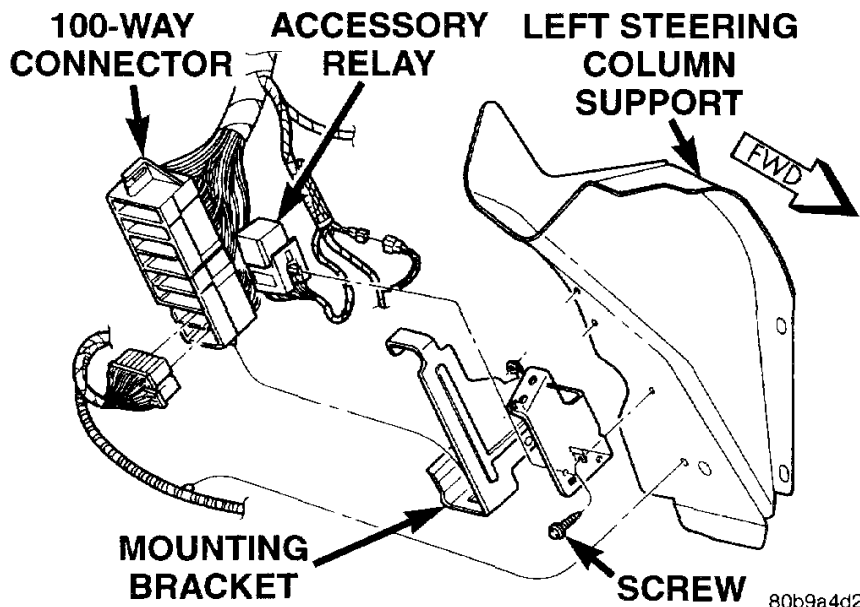
The accessory relay cannot be repaired or adjusted and, if faulty or damaged, it must be replaced.

OPERATION

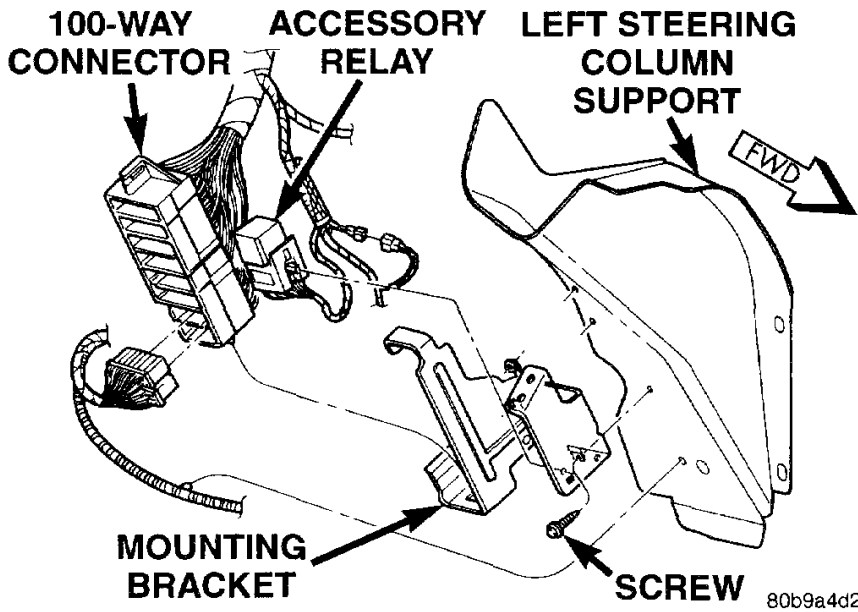
The ISO relay consists of an electromagnetic coil, a resistor or diode, and three (two fixed and one movable) electrical contacts. The movable (common feed) relay contact is held against one of the fixed contacts (normally closed) by spring pressure. When the electromagnetic coil is energized, it draws 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.

Components (itype_32)



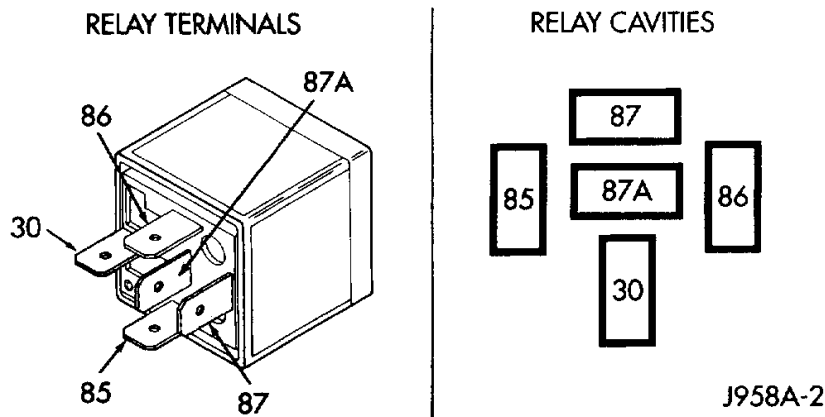
Procedures (itype_376)



Technician Safety Information (itype_15)

WARNING: ON VEHICLES EQUIPPED WITH AIRBAGS, REFER TO RESTRAINT SYSTEMS / AIRBAG SYSTEMS BEFORE ATTEMPTING A 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

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