



TURN SIGNALS AND HAZARD WARNING FLASHER

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GENERAL INFORMATION

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

The turn signals are part of the multi-function switch. Which contains:

- Electrical circuitry for turn signals
- Hazard warning switch
- Headlamp beam select switch
- Headlamp optical horn
- Windshield wiper switch
- Pulse wipe and windshield washer switching

The integrated switch assembly is mounted to the left hand side of the steering column. When the driver wishes to signal his intentions to change direction of travel, he moves the lever upward to cause the right signals to flash and downward to cause the left signals to flash. After completion of a turn the system is deactivated automatically. As the steering wheel returns to the straight ahead position, a canceling cam molded to the clockspring mechanism comes in contact with the cancel actuator on the turn signal multi-function switch assembly. The cam lobe, pushing on the cancel actuator, returns the switch to the off position.

If only momentary signaling such as indication of a lane change is desired, the switch is actuated to a left or right intermediate detent position. In this position the signal lamps flash as described above, but the switch returns to the OFF position as soon as the lever is released.

When the system is activated, one of two indicator lamps mounted in the instrument cluster flashes in unison with the turn signal lamps, indicating to the driver that the system is operating.

HAZARD WARNING SYSTEM

The hazard warning system is actuated by a push button located on the top of the steering column between the steering wheel and the instrument panel. The hazard switch is identified with a double triangle on top of the button. Push and release the button to turn the hazard function ON or OFF. The button will move out from the steering column in the ON position and will remain in toward the column in the OFF position.

MULTI-FUNCTION SWITCH TESTS

The multi-function switch contains electrical circuitry for turn signal, hazard warning, headlamp beam select, headlamp optical horn, windshield wiper, pulse wipe, and windshield washer switching. This integrated switch assembly is mounted to the left hand side of the steering column. Should any function of the switch fail, the entire switch assembly must be replaced. Refer to Fig. 1 for diagnosis.

To test the switch, first disconnect the negative battery cable, then remove the upper and lower column covers to gain access to the switch connector. Remove switch connector. Using an ohmmeter, test for continuity (no resistance) between the terminals of the switch as shown in the following continuity charts (Fig 2 or 3).

MULTI-FUNCTION SWITCH REPLACEMENT

- (1) Disconnect battery negative cable.
- (2) Remove tilt lever.
- (3) Remove both upper and lower steering column shrouds.
- (4) Remove multi-function switch mounting screws (Fig.4).
- (5) For installation, reverse above procedure.
 - (a) Tighten multi-function switch to column retaining screws to 2 N•m (17 in. lbs.) torque.
 - (b) Tighten steering column cover retaining screws to 2 N• (17 in. lbs.) torque.

TURN SIGNAL AND HAZARD WARNING FLASHER LOCATION

The turn signal flasher and the hazard warning flasher are combined into one unit called a combination flasher (combo-flasher). The combo-flasher controls the flashing of the hazard warning system and the turn signal system. An inoperative bulb or incomplete turn signal circuit will result in an increase in flasher speed.

The combo-flasher is mounted to the in-line bracket which is located to the of the junction block. The flasher can be removed by pulling in an rearward direction. The left under panel silencer duct must be removed to access the flasher. The combo-flasher is black in color for ease of identification (Fig. 5).

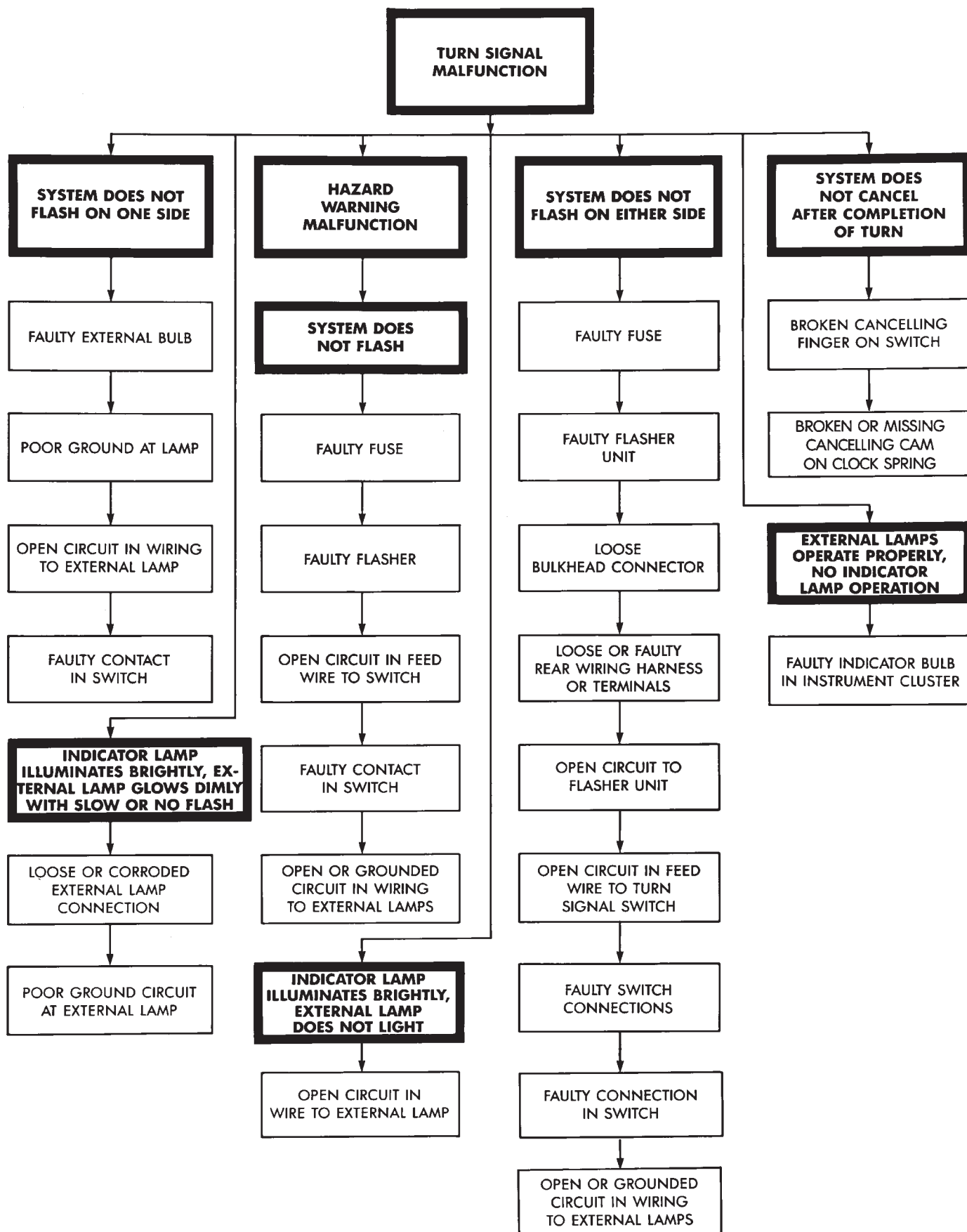
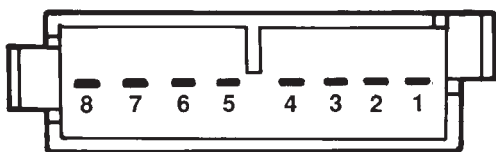


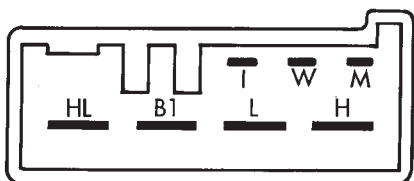
Fig. 1 Turn Signal and Hazard Warning Flasher Diagnosis



SWITCH POSITION		CONTINUITY BETWEEN
TURN SIGNAL	HAZARD WARNING	
NEUTRAL	OFF	1 and 3
LEFT	OFF	7 and 6
RIGHT	OFF	7 and 8
NEUTRAL	ON	2 and 3 7 and 8 7 and 6 4 and 5

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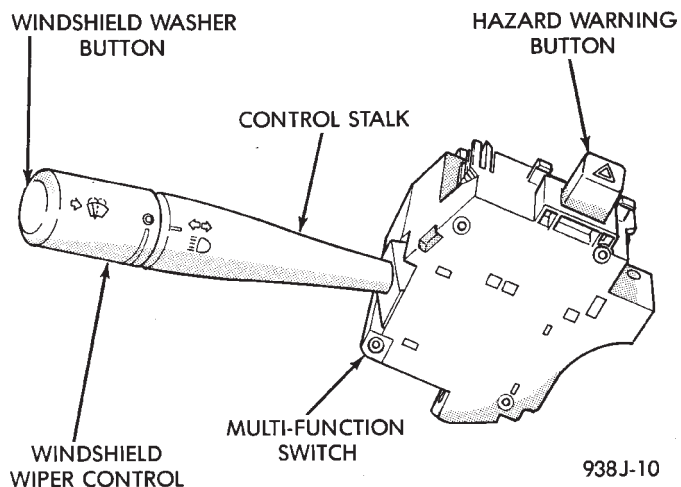
Fig. 2 Turn Signal and Hazard Switch Continuity



SWITCH POSITION	CONTINUITY BETWEEN
LOW BEAM	HL and L
HIGH BEAM	HL and H
OPTICAL HORN	B1 and H

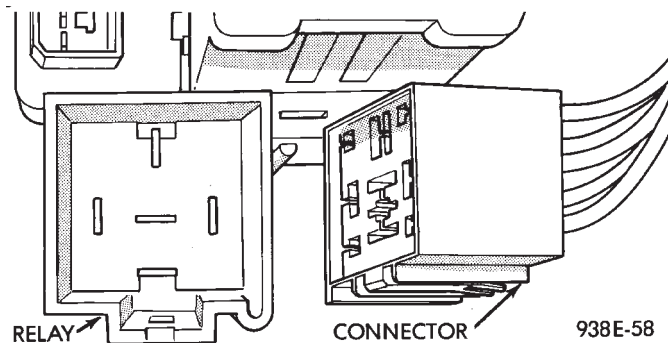
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Fig. 3 Beam Select Switch Continuity



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Fig. 4 Multi-Function Switch



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Fig. 5 Combo—Flasher

