

TURN SIGNALS AND HAZARD WARNING FLASHER

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TURN SIGNALS—XJ

Refer to Section 8W - Wiring Diagrams for circuit wiring diagram.

DESCRIPTION

With the turn signal lever in its up or down position and the ignition switch in ACCESSORY or ON, current flows through the:

- turn/hazard switch
- selected turn indicator bulb
- front and rear turn signal bulbs
- and the front side marker bulb.

With the headlamps OFF, the turn and front side marker lamps flash in unison. **With the headlamps ON, the turn and front side marker lamps flash alternately.**

DIAGNOSIS—TURN SIGNAL INOPERATIVE

(1) A turn signal indicator that does not flash usually indicates a burned out turn signal bulb. Check for and replace if defective. System should now function properly. If not, go to next step.

High generator output voltage can burn out lamps rapidly.

(2) Remove and inspect 20 amp #8 fuse. Replace if necessary. If OK, go to next step.

(3) Remove turn flasher, light blue can, located in upper left corner of fuse block.

(4) Turn ignition switch to ACCESSORY. Check for battery voltage at flasher bottom cavity on fuse block. If OK, go to next step. If not, repair open circuit in wiring between turn flasher and #8 fuse.

(5) Turn ignition switch to ACCESSORY. Move turn signal lever up or down. Replace turn flasher with known good flasher. The lamps should flash. If not, replace original flasher and go to next step.

(6) Turn ignition switch to OFF. Follow procedure for turn/hazard switch replacement to locate steering column connector. Unplug connector.

(7) Turn ignition switch to ACCESSORY. Check for battery voltage at connector terminal L. If OK, replace turn/hazard switch and check that lamps flash. If not, repair open circuit in wiring between turn flasher and steering column connector terminal L.

HAZARD LAMPS—XJ

Refer to Section 8W - Wiring Diagrams for circuit wiring diagram.

DESCRIPTION

With the hazard switch ON, current flows through the:

- hazard flasher
- the turn/hazard switch
- two front turn signal bulbs
- two rear turn signal bulbs
- two front side marker bulbs
- and two turn indicator bulbs.

All of these bulbs will flash on and off.

DIAGNOSIS—HAZARD LAMPS INOPERATIVE

(1) Inspect 20 amp #F13 fuse in Power Distribution Center (PDC). The PDC is located in the engine compartment, passenger side. For location of fuse,

check underside of PDC cover. Replace if necessary. If OK, go to next step.

(2) Remove hazard flasher (tin can) located in fuse block.

(3) Check for battery voltage at the terminal on the right (3 o'clock). If OK, go to next step. If not, repair open circuit in wiring between #F13 fuse and hazard flasher right terminal.

(4) Replace hazard flasher with known good flasher. Activate hazard warning switch. Lamps should flash. If not, replace original flasher and go to next step.

(5) Follow procedure for turn/hazard switch replacement to locate steering column connector. Unplug connector.

(6) Check for battery voltage at connector terminal K. If OK, replace turn/hazard switch. If not, repair open circuit in wiring between hazard flasher and steering column connector terminal K.

TURN SIGNALS—YJ

Refer to Section 8W - Wiring Diagrams for circuit wiring diagram.

DESCRIPTION

With the turn signal lever in its up or down position and the ignition switch in ACCESSORY or ON, current flows through the:

- turn/hazard switch
- selected turn indicator bulb
- front and rear turn signal bulbs
- front side marker bulb

With the headlamps OFF, the turn and side marker lamps flash in unison. **With the headlamps ON, the turn and side marker lamps flash alternately.**

DIAGNOSING—TURN SIGNAL INOPERATIVE

(1) A turn signal indicator that does not flash usually indicates a burned out turn signal bulb. Check for and replace if defective. System should now function properly. If not, go to next step.

High generator output voltage can burn out lamps rapidly.

(2) Locate fuse block under driver's side of instrument panel.

(3) Remove and inspect 15 amp #4 fuse. Replace if necessary. If OK, go to next step.

(4) Remove turn flasher, light blue can, located in fuse block.

(5) Turn ignition switch to ACCESSORY. Check for battery voltage at cavity on left (closest to hazard flasher can). If OK, go to next step. If not, repair open circuit in wiring between turn flasher and #4 fuse.

(6) Turn ignition switch to ACCESSORY. Move turn signal lever up or down. Replace turn flasher with known good flasher. The lamps should flash. If not, replace original flasher and go to next step.

(7) Turn ignition switch to OFF. Follow procedure for turn/hazard switch replacement to locate steering column connector. Unplug connector.

(8) Turn ignition switch to ACCESSORY. Check for battery voltage at connector terminal L. If OK, replace turn/hazard switch. If not, repair open circuit in wiring between turn flasher and steering column connector terminal L.

HAZARD LAMPS—YJ

Refer to Section 8W - Wiring Diagrams for circuit wiring diagram.

DESCRIPTION

With the hazard switch ON, current flows through the:

- hazard flasher
- turn/hazard switch
- two front turn signal bulbs
- two rear turn signal bulbs
- two front side marker bulbs
- two turn indicator bulbs.

All of these bulbs will flash on and off.

DIAGNOSIS—HAZARD LAMPS INOPERATIVE

(1) Inspect 20 amp #F5 fuse in Power Distribution Center (PDC). The PDC is located in the engine compartment, passenger side. For location of fuse, check underside of PDC cover. Replace if necessary. If OK, go to next step.

(2) Remove hazard flasher (tin can) located in fuse block.

(3) Check for battery voltage at the terminal on the left. If OK, go to next step. If not, repair open circuit in wiring between #F5 fuse and hazard flasher left terminal.

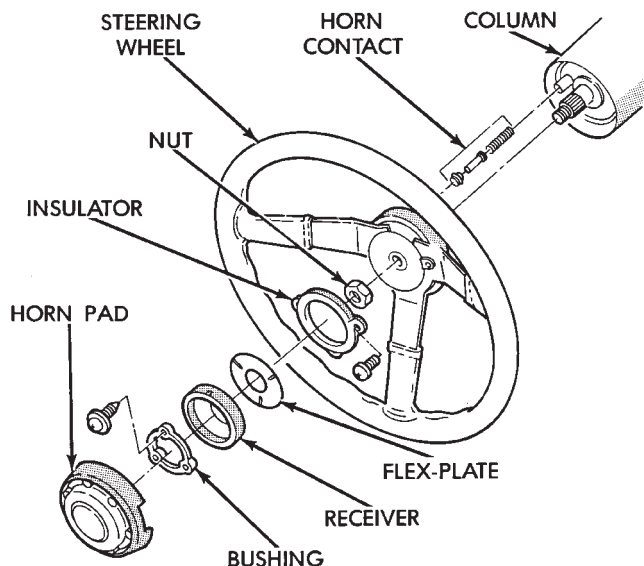
(4) Replace hazard flasher with known good flasher. Activate hazard warning switch. Lamps should flash. If not, replace original flasher and go to next step.

(5) Follow procedure for turn/hazard switch replacement to locate steering column connector. Unplug connector.

(6) Check for battery voltage at connector terminal K. If OK, replace turn/hazard switch. If not, repair open circuit in wiring between hazard flasher and steering column connector terminal K.

TURN/HAZARD SWITCH REPLACEMENT - ALL MODELS

- (1) Disconnect negative cable from battery.
- (2) Remove the horn button with a push and turn motion.
- (3) Remove the horn button components (Fig. 1).



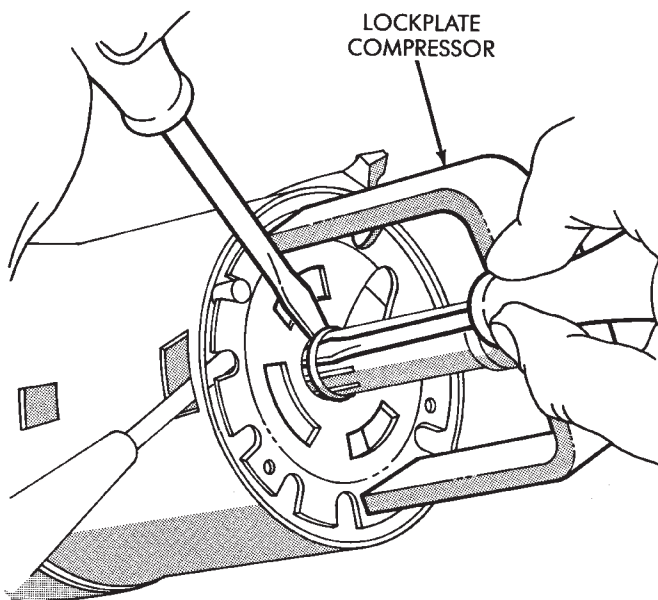
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Fig. 1 Steering Wheel Removal/Installation

- (4) Turn ignition switch to LOCK position and remove steering wheel nut and washer.
- (5) Scribe an alignment mark on the steering in line with the mark already existing on the end of the steering column.
- (6) Remove vibration damper from the steering column hub, if equipped.
- (7) Remove the steering wheel using a steering wheel puller. DO NOT hammer on puller or end of steering shaft.

WARNING: TO REMOVE THE STEERING SHAFT SNAP RING IN THE FOLLOWING STEP, THE LOCKPLATE MUST BE COMPRESSED. DO NOT ATTEMPT TO REMOVE THE LOCKPLATE WITHOUT COMPRESSOR TOOL C4156 AS THE LOCKPLATE IS UNDER HEAVY SPRING TENSION.

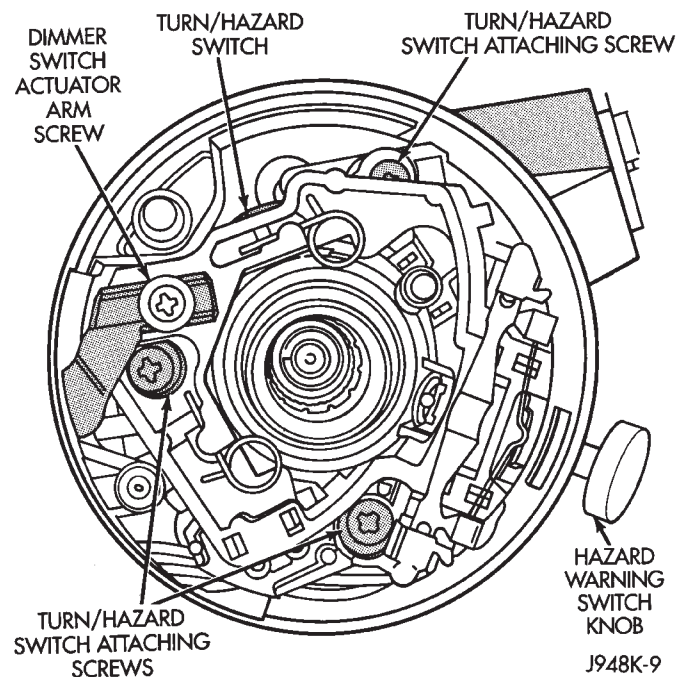
- (8) Compress lockplate with compressor tool C4156.
- (9) Remove steering shaft snap ring (Fig. 2). Discard snap ring. It is not reusable.
- (10) Remove compressor tool.
- (11) Remove lockplate, cancelling cam, and upper bearing preload spring.
- (12) Remove horn button components from cancelling cam.



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Fig. 2 Lockplate Removal

- (13) Remove the screw and hazard warning switch knob.
- (14) Remove dimmer switch actuator arm attaching screw (Fig. 3).



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Fig. 3 Turn/Hazard Switch And Dimmer Actuating Arm Screws

- (15) Remove turn/hazard switch attaching screws.
- (16) XJ—Remove lower instrument panel cover trim panel.
- (17) YJ

(a) Remove 6 housing screws (Fig. 4).

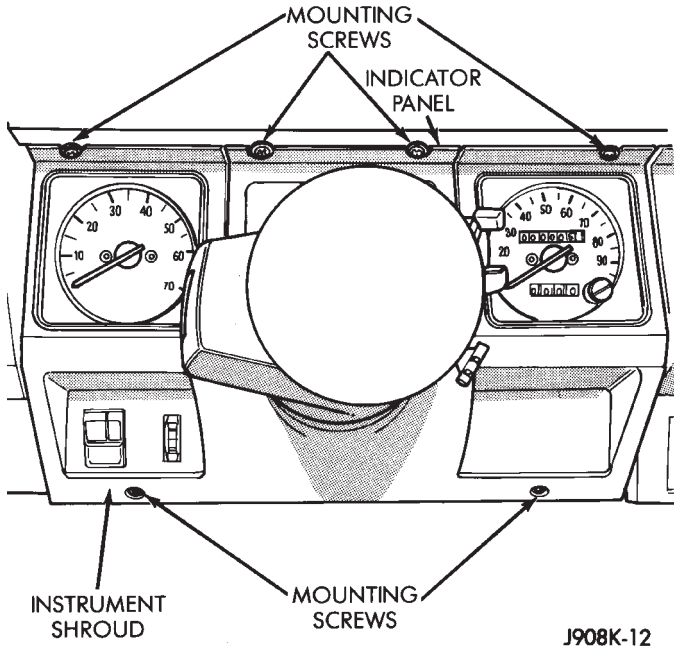


Fig. 4 Instrument Housing Removal/Installation—YJ

(b) Slide housing toward steering wheel.

(18) Remove cover under column.

(19) If vehicle is equipped with a column shift, remove PRNDL cable clip (Fig. 5).

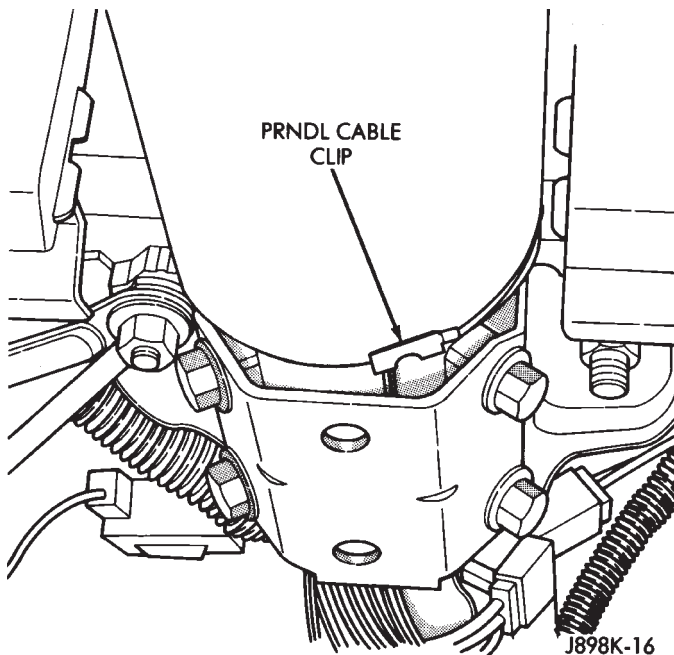


Fig. 5 PRNDL Cable Clip Removal/Installation

(20) Remove 2 nuts holding steering column bracket to brake sled (Fig. 6).

(21) Remove 4 bolts holding steering column bracket to column.

(22) Loosen column brace mounting nut at drivers side kick panel. This will allow column to drop.

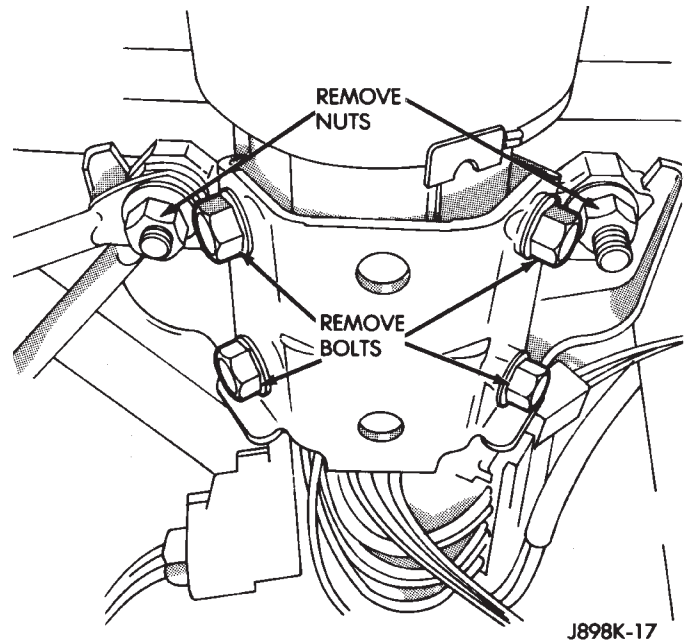


Fig. 6 Lower Steering Column

(23) Push turn/hazard connector up and out of steering column connector (Fig. 7).

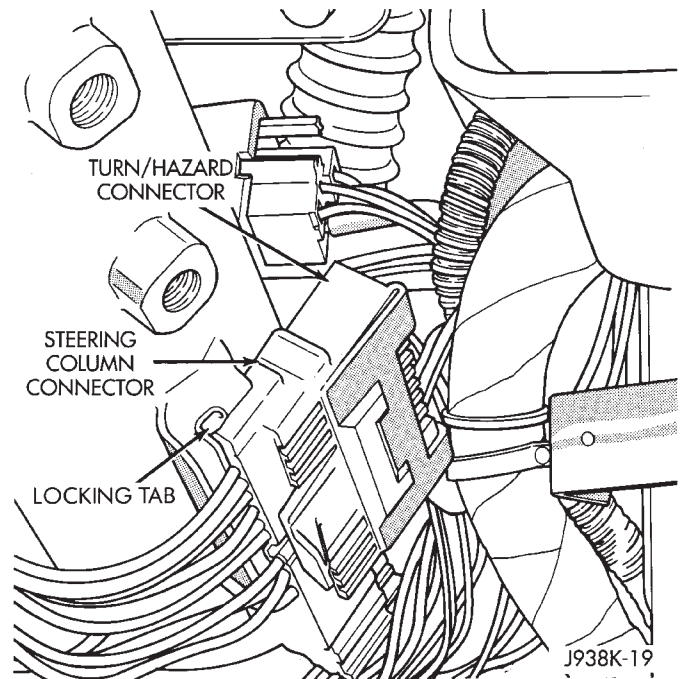
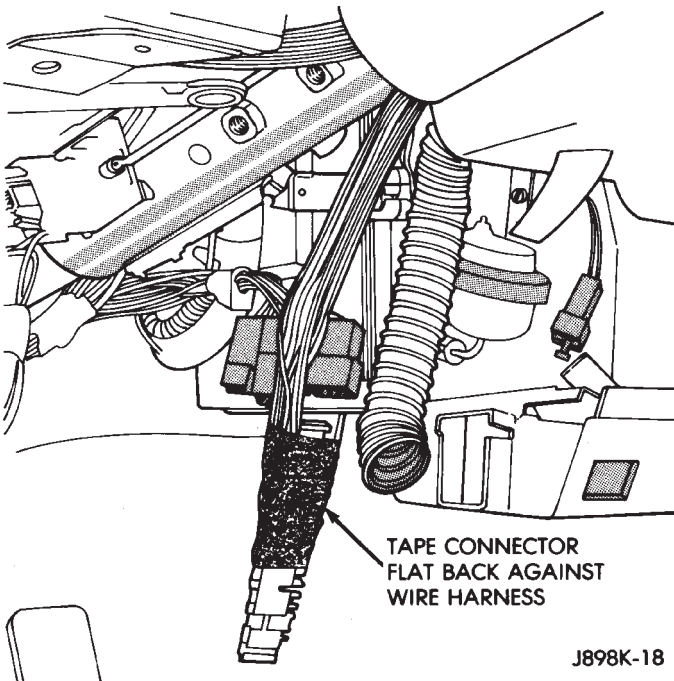


Fig. 7 Turn/Hazard Switch And Steering Column Connectors

(24) Pry up locking tabs of steering column connector and remove connector from column bracket.

(25) Tape connector to wires as shown (Fig. 8).

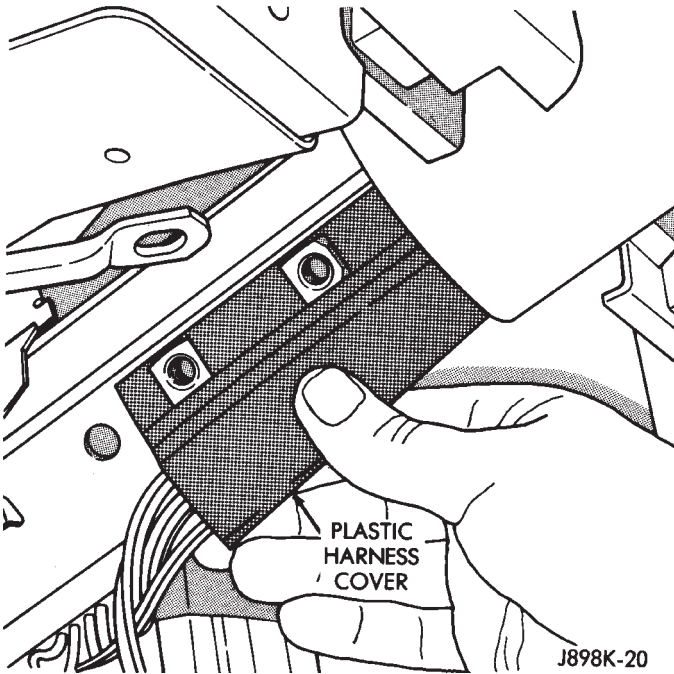
(26) Remove plastic harness cover by pulling it up and over the weld nuts then open and slide the cover off the harness (Fig. 9).



TAPE CONNECTOR
FLAT BACK AGAINST
WIRE HARNESS

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Fig. 8 Tape Wiper Switch Connector



PLASTIC
HARNESS
COVER

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Fig. 9 Remove Plastic Harness Cover

(27) Remove the turn/hazard switch. Pull the switch and wire harness straight up and out of the housing.

(28) To install a new switch, reverse the removal procedure.

CAUTION: When installing a turn/hazard switch, make sure wires are laying flat on bottom inside column.

On vehicles equipped with column shift, install the PRNDL cable clip with the shift indicator on N (neutral). Move the selector through the range and make sure it lines up with each letter.

(29) Adjust the headlamp dimmer switch as described in Group 8L - Lamps.

