

LAMPS

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LAMP DIAGNOSIS

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GENERAL INFORMATION

GENERAL INFORMATION

LH vehicles use lighting on the interior and exterior of the vehicle for illuminating and indicating purposes. Lighting circuits are protected by fuses or circuit breakers. Lighting circuits require an overload protected power source, on/off device, lamps and body ground to operate properly. Plastic lamp sockets require a wire in the harness to supply body ground to the lamp socket. Lamp sockets that are exposed to moisture should be coated with Mopar® Multi-purpose Grease or equivalent to avoid corrosion. If a socket has become corroded, clean socket and bulb base with abrasive fiber sanding pad or metallic bristle brush. Replace sockets and bulbs that are deformed from corrosion that could prevent a continuous body ground.

Wire connectors can make intermittent contact or become corroded. Before coupling wire connectors, inspect the terminals inside the connector. Male terminals should not be bent or disengaged from the insulator. Female terminals should not be sprung open or disengaged from the insulator. Bent and sprung terminals can be repaired using needle nose pliers and pick tool. Corroded terminals appear chalky or green. Corroded terminals should be replaced to avoid recurrence of the problem symptoms. Wire connector terminals should be coated with

Mopar® Multi-purpose Grease or equivalent to avoid corrosion.

Begin electrical system failure diagnosis by testing related fuses and circuit breakers in the fuse block and engine compartment. Verify that bulbs are in good condition and test continuity of the circuit ground. Refer to Group 8W, Wiring Diagrams, for component location and circuit information.

SAFETY PRECAUTIONS

WARNING: EYE PROTECTION SHOULD BE USED WHEN SERVICING GLASS COMPONENTS. PERSONAL INJURY CAN RESULT.

CAUTION: Do not touch the glass of halogen bulbs with fingers or other possibly oily surface, reduced bulb life will result. Do not use bulbs with higher candle power than indicated in the Bulb Application table at the end of this group. Damage to lamp can result. Do not use fuses, circuit breakers or relays having greater amperage value than indicated on the fuse panel or in the Owners Manual.

When it is necessary to remove components to service another, it should not be necessary to apply excessive force or bend a component to remove it. Before damaging a trim component, verify hidden

GENERAL INFORMATION (Continued)

fasteners or captured edges are not holding the component in place.

DIAGNOSIS AND TESTING

HEADLAMP AND FOGLAMP DIAGNOSIS

When a vehicle experiences problems with the headlamp system, verify the condition of the battery connections, charging system, headlamp bulbs, wire connectors, relay, high beam dimmer switch and headlamp switch. Refer to Group 8W, Wiring Diagrams, for component locations and circuit information.

ELECTRONIC DAYTIME RUNNING LIGHT

LH vehicles built for use in Canada are equipped with a Daytime Running Lamp (DRL) system. The DRL system operates the headlamps at 50% power with the headlamp switch OFF and the engine run-

ning. The DRL system is controlled by the Daytime Running Lamp Module located on radiator closure panel on the right side of the engine compartment. The DRL module overrides the headlamp switch when the headlamps are turned OFF. The headlamps operate normally when the headlamps are turned ON.

HEADLAMP SWITCH

The headlamp switch is located on the upper left side of the instrument panel. Refer to Group 8E, Instrument Panel, for proper service procedures.

HIGH-BEAM HEADLAMP DIMMER SWITCH

The high beam headlamp dimmer is part of the multi-function switch located on the steering column. Refer to Group 8J, Turn Signals and Warning Flashers, for proper service procedures.

DIAGNOSIS AND TESTING (Continued)

HEADLAMP DIAGNOSIS

CONDITION	POSSIBLE CAUSES	CORRECTION
HEADLAMPS ARE DIM WITH ENGINE IDLING OR IGNITION TURNED OFF	1. Loose or corroded battery cables. 2. Loose or worn generator drive belt. 3. Charging system output too low. 4. Battery has insufficient charge. 5. Battery is sulfated or shorted. 6. Poor lighting circuit Z1-ground. 7. Both headlamp bulbs defective.	1. Clean and secure battery cable clamps and posts. 2. Adjust or replace generator drive belt. 3. Test and repair charging system, refer to Group 8A, 4. Test battery state-of -charge , refer to Group 8A. 5. Load test battery, refer to Group 8A. 6. Test for voltage drop across Z1-ground locations, refer to Group 8W. 7. Replace both headlamp bulbs.
HEADLAMP BULBS BURN OUT FREQUENTLY	1. Charging system output too high. 2. Loose or corroded terminals or splices in circuit.	1. Test and repair charging system, refer to Group 8A. 2. Inspect and repair all connectors and splices, refer to Group 8W.
HEADLAMPS ARE DIM WITH ENGINE RUNNING ABOVE IDLE	1. Charging system output too low. 2. Poor lighting circuit Z1-ground. 3. High resistance in headlamp circuit. 4. Both headlamp bulbs defective.	1. Test and repair charging system, refer to Group 8A. 2. Test for voltage drop across Z1-ground locations, refer to Group 8W. 3. Test amperage draw of headlamp circuit. 4. Replace both headlamp bulbs.
HEADLAMPS FLASH RANDOMLY	1. Poor lighting circuit Z1-ground. 2. High resistance in headlamp circuit. 3. Faulty headlamps switch circuit breaker. 4. Loose or corroded terminals or splices in circuit.	1. Test for voltage drop across Z1-ground locations, refer to Group 8W. 2. Test amperage draw of headlamp circuit. 3. Replace headlamp switch. 4. Inspect and repair all connectors and splices, refer to Group 8W.
HEADLAMPS DO NOT ILLUMINATE	1. No voltage to headlamps. 2. No Z1-ground at headlamps. 3. Faulty headlamp switch. 4. Faulty headlamp dimmer (multi-function) switch. 5. Broken connector terminal or wire splice in headlamp circuit.	1. Repair open headlamp circuit, refer to Group 8W. 2. Repair circuit ground, refer to Group 8W. 3. Replace headlamp switch. 4. Replace multi-function switch. 5. Repair connector terminal or wire splice.

DIAGNOSIS AND TESTING (Continued)

FOG LAMP DIAGNOSIS

CONDITION	POSSIBLE CAUSES	CORRECTION
FOG LAMPS ARE DIM WITH ENGINE IDLING OR IGNITION TURNED OFF.	1. Loose or corroded battery cables. 2. Loose or worn generator drive belt. 3. Charging system output too low. 4. Battery has insufficient charge. 5. Battery is sulfated or shorted. 6. Poor lighting circuit Z1-ground. 7. Both fog lamp bulbs defective.	1. Clean and secure battery cable clamps and posts. 2. Adjust or replace generator drive belt. 3. Test and repair charging system, refer to Group 8A. 4. Test battery state-of-charge, refer to Group 8A. 5. Load test battery, refer to Group 8A. 6. Test for voltage drop across Z1-ground locations, refer to Group 8W. 7. Replace both fog lamp bulbs.
FOG LAMP BULBS BURN OUT FREQUENTLY	1. Charging system output too high. 2. Loose or corroded terminals or splices in circuit.	1. Test and repair charging system, refer to Group 8A. 2. Inspect and repair all connectors and splices, refer to Group 8W.
FOG LAMPS ARE DIM WITH ENGINE RUNNING ABOVE IDLE	1. Charging system output too low. 2. Poor lighting circuit Z1-ground. 3. High resistance in fog lamp circuit. 4. Both fog lamp bulbs defective.	1. Test and repair charging system, refer to Group 8A. 2. Test for voltage drop across Z1-ground locations, refer to Group 8W. 3. Test amperage draw of fog lamp circuit. 4. Replace both fog lamp bulbs.
FOG LAMPS FLASH RANDOMLY	1. Poor lighting circuit Z1-ground. 2. High resistance in fog lamp circuit. 3. Faulty fog lamp switch. 4. Loose or corroded terminals or splices in circuit.	1. Test for voltage drop across Z1-ground locations, refer to Group 8W. 2. Test amperage draw of fog lamp circuit. 3. Replace fog lamp switch. 4. Inspect and repair all connectors and splices, refer to Group 8W.
FOG LAMPS DO NOT ILLUMINATE	1. Blown fuse for fog lamps. 2. No Z1-ground at fog lamps. 3. Faulty fog lamp switch. 4. Broken connector terminal or wire splice in fog lamp circuit.	1. Replace fuse, refer to Group 8W. 2. Repair circuit ground, refer to Group 8W. 3. Replace fog lamp switch. 4. Repair connector terminal or wire splice.

HEADLAMP ALIGNMENT

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GENERAL INFORMATION

GENERAL INFORMATION

LH vehicle headlamps are equipped with a bubble level to aid up/down headlamp alignment. The bubble level is used to assist headlamp alignment when compensating for vehicle ride height changes due to heavy luggage compartment loads or vehicle ride height changes. The vehicle should always be on a level surface when headlamp alignments are checked or changed. Headlamp alignment should always be first attempted by using the bubble level (Fig. 1).

CAUTION: Turn only the vertical adjusting screw (outboard on LH/D-L-X, inboard on LH/CP) when adjusting headlamps. Do not turn the bubble level screw unless calibrating the level as described in this section.

If it appears that the bubble level requires calibration due to damage or tampering, the Headlamp Adjustment Using Alignment Screen should be performed (Fig. 1). A gauge and arrow sticker is located on the top of the headlamp module to assist right/left alignment. Horizontal alignment does not ordinarily have to be changed except in the case of body damage or tampering.

ADJUSTMENTS

HEADLAMP BUBBLE LEVEL CALIBRATION

The bubble level is calibrated at the factory and should not require calibration unless the vehicle has been damaged or headlamp module has been replaced. Perform the Headlamp Alignment Preparation procedures and verify headlamp alignment. After the headlamp alignment has been verified using the alignment screen procedures, the bubble level can be calibrated.

CALIBRATION PROCEDURE

- (1) Position vehicle on a level surface.
- (2) Verify that headlamp alignment is correct.

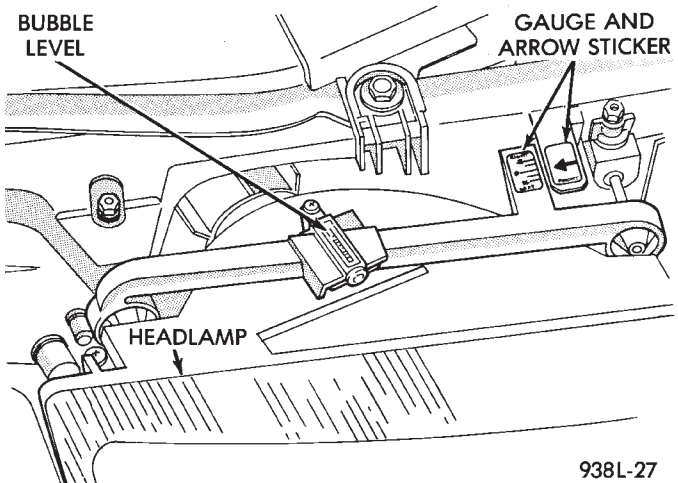


Fig. 1 Headlamp Alignment Bubble and Arrow—Typical

- (3) Rotate bubble level calibration screw in or out until bubble is centered in the vial (Fig. 2).
- (4) Center arrow sticker to gauge sticker for left/right reference.

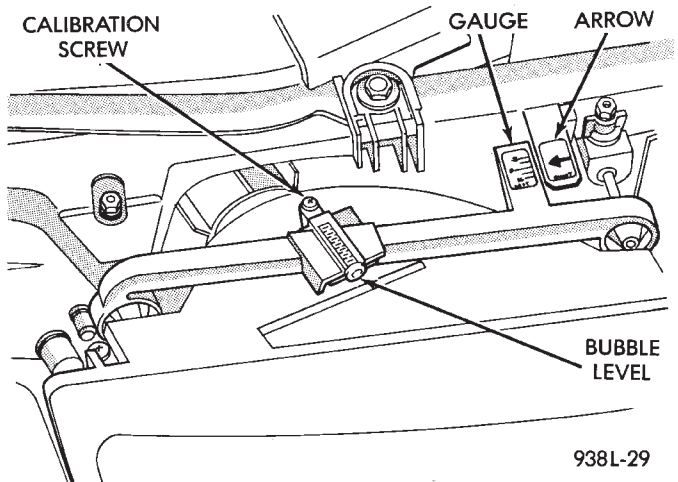


Fig. 2 Headlamp Bubble Calibration

HEADLAMP ALIGNMENT PREPARATION

- (1) Verify headlamp dimmer switch and high beam indicator operation.

ADJUSTMENTS (Continued)

(2) Inspect and correct damaged or defective components that could interfere with proper headlamp alignment.

(3) Verify proper tire inflation.

(4) Clean headlamp lenses.

(5) Verify that luggage area is not heavily loaded.

(6) Fuel tank should be FULL. Add 2.94 kg (6.5 lbs.) of weight over the fuel tank for each estimated gallon of missing fuel.

HEADLAMP AND FOGLAMP ADJUSTMENT USING ALIGNMENT SCREEN

NOTE: LH vehicle headlamps should be aligned using the high beams. Greater accuracy is achieved than when aligned using the low beam headlamps.

ALIGNMENT SCREEN PREPARATION

(1) Position vehicle on a level surface perpendicular to a flat wall 7.62 meters (25 ft.) away from front of headlamp lens.

(2) If necessary, tape a line on the floor 7.62 meters (25 ft.) away from and parallel to the wall.

(3) From the floor up 1.27 meters (5 ft.), tape a line on the wall at the centerline of the vehicle. Sight

along the centerline of the vehicle (from rear of vehicle forward) to verify accuracy of the line placement.

(4) Rock vehicle side-to-side three times to allow suspension to stabilize.

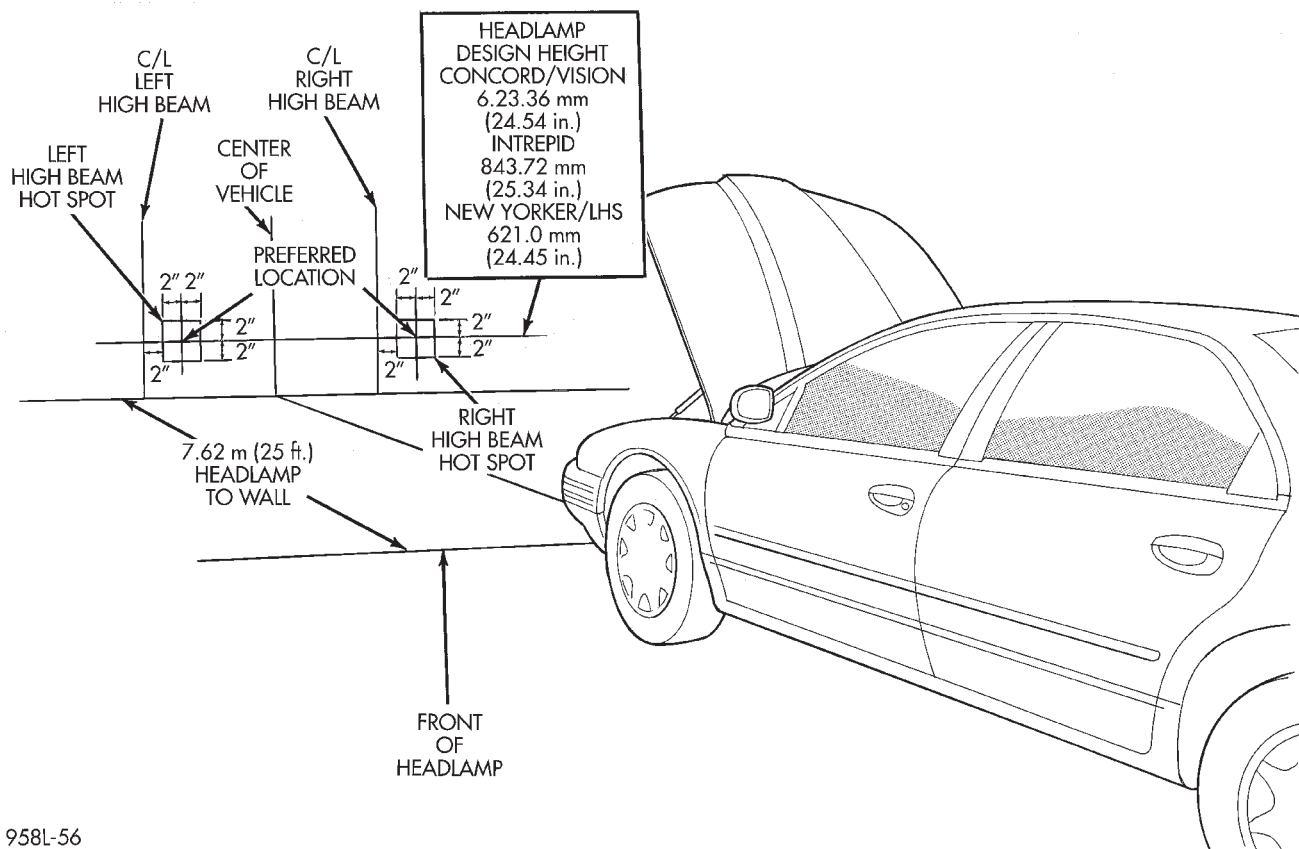
(5) Jounce front suspension three times by pushing downward on front bumper and releasing.

(6) Measure the distance from the center of the headlamp bulbs to the floor. Transfer measurement to the alignment screen (with tape). Use this line for up/down adjustment reference.

(7) Measure distance from the centerline of the vehicle to the center of the headlamp bulbs. Transfer measurements to screen (with tape) to each side of vehicle centerline. Use these lines for left/right adjustment reference (Fig. 3).

HEADLAMP ADJUSTMENT

A properly aimed high beam headlamp will project the center of the hot spot approximately on the headlamp horizontal centerline. A range of from 2 inches above to 2 inches below this line is acceptable. The side-to-side placement the hot spot should be to the right of the vertical centerline approximately 4 inches. (On LH-D vehicles, if the center of the hot spot is from 2 to 6 inches to the right, the aim is acceptable.) **The preferred alignment for the high beam hot spot alignment is 0 for the**



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Fig. 3 Headlamp Alignment Screen

ADJUSTMENTS (Continued)

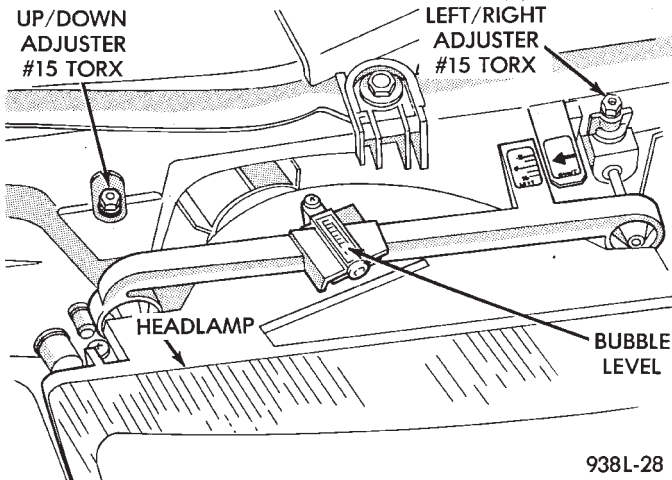


Fig. 4 Headlamp Alignment Screws—Except CP Vehicles

up/down adjustment, and 4 inches for the left/right adjustment (Fig. 3) . The low beam alignment should be correct when the high beams are properly positioned. Verify that the center of the low beam hot spot is approximately 8 to 12 inches below the high beams, and does not cast significant bright light above the horizontal centerline. To adjust headlamp alignment, rotate the alignment screws, (Fig. 4) and (Fig. 5) to achieve the specified pattern.

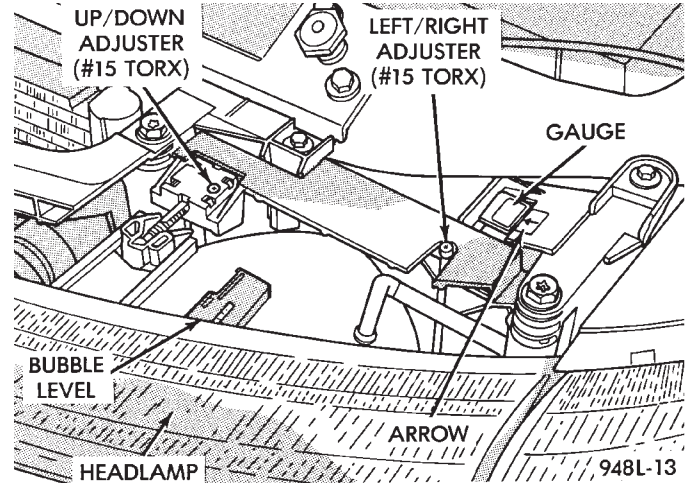


Fig. 5 Headlamp Alignment Screws—CP Vehicles

FOGLAMP ALIGNMENT

Prepare an alignment screen. Refer to Alignment Screen Preparation paragraph in this section. A properly aligned foglamp will project a pattern on the alignment screen 100mm (4 in.) below the foglamp centerline and straight ahead.

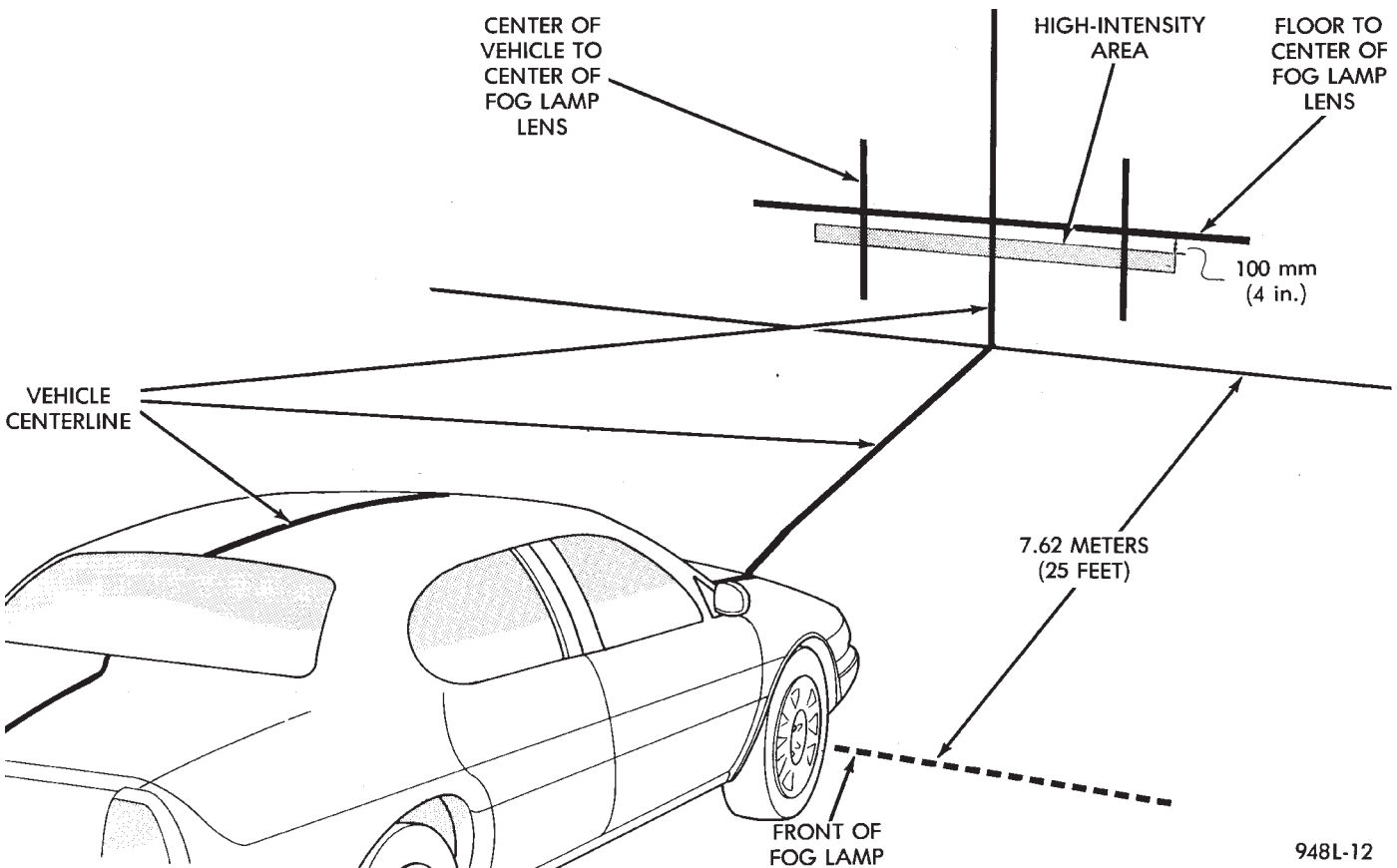


Fig. 6 Foglamp Alignment Screen

LAMP BULB SERVICE—LH/D-L-X

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REMOVAL AND INSTALLATION

HEADLAMP BULBS

REMOVAL

- (1) Release hood latch and open hood.
- (2) Remove screws holding headlamp to module assembly.
- (3) Separate lamp from module.
- (4) Disengage wire connector from back of headlamp bulb.
- (5) Remove retaining ring holding bulb to lamp.
- (6) Pull bulb from lamp (Fig. 1).

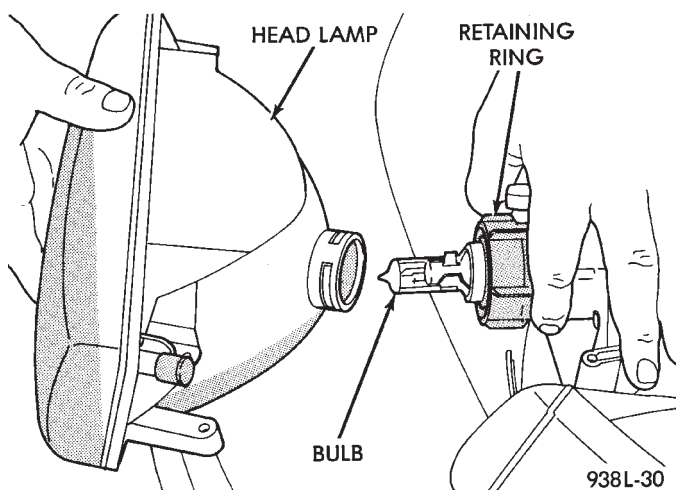


Fig. 1 Headlamp Bulb

INSTALLATION

CAUTION: Do not touch the glass of halogen bulbs with fingers or other possibly oily surface, reduced bulb life will result.

- (1) Push bulb into lamp.
- (2) Install retaining ring to hold bulb in lamp.
- (3) Engage wire connector to back of headlamp bulb.
- (4) Place lamp in position on module.
- (5) Install screws to hold headlamp to module assembly.
- (6) Verify headlamp operation and alignment.

SIDE MARKER, PARK AND TURN SIGNAL LAMP BULB

REMOVAL

- (1) Release hood latch and open hood.
- (2) Disengage clip holding lamp to headlamp module.
- (3) Pull lamp forward and separate lamp from vehicle.
- (4) Remove socket from lamp (Fig. 2).
- (5) Pull bulb from socket.

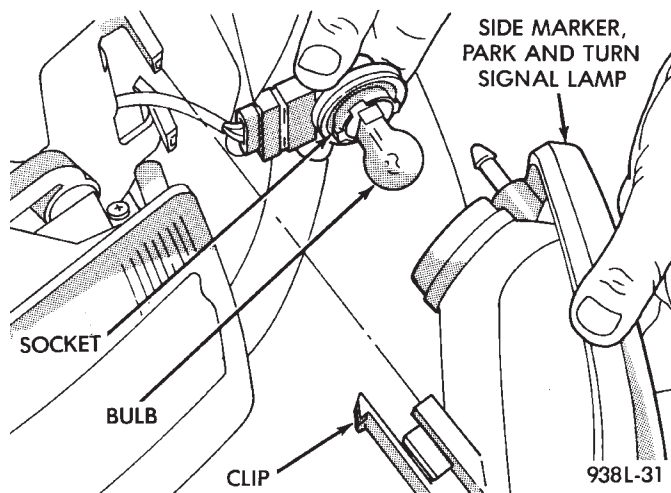


Fig. 2 Side Marker, Park and Turn Signal Bulb

INSTALLATION

- (1) Push bulb into socket.
- (2) Install socket in lamp.
- (3) Place lamp in position on vehicle.
- (4) Push lamp rearward and engage clip to hold lamp to headlamp module.
- (5) Verify lamp operation.

FOGLAMP BULB

REMOVAL

- (1) Remove fog lamp from vehicle.
- (2) Remove rear cover from fog lamp.
- (3) Disengage wire clip holding bulb in fog lamp.
- (4) Hinge wire clip out of bulb removal path.

REMOVAL AND INSTALLATION (Continued)

- (5) Pull bulb from lamp (Fig. 3).
- (6) Disengage wire connector from body wire harness.

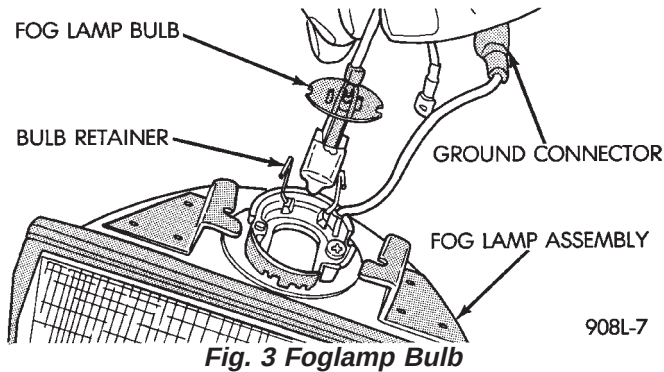


Fig. 3 Foglamp Bulb

INSTALLATION

CAUTION: Do not touch the glass of halogen bulbs with fingers or other possibly oily surface, reduced bulb life will result.

- (1) Engage wire connector to body wire harness.
- (2) Insert bulb into lamp.
- (3) Hinge wire clip over bulb base.
- (4) Engage wire clip to hold bulb in fog lamp.
- (5) Install rear cover to fog lamp.
- (6) Install fog lamp to vehicle.
- (7) Verify fog lamp operation and alignment.

CENTER HIGH MOUNTED STOP LAMP BULB

REMOVAL

- (1) Release trunk latch and open trunk lid.
- (2) From under rear deck panel, remove lamp socket from CHMSL.
- (3) Pull bulb from socket.

INSTALLATION

- (1) Insert bulb into socket.
- (2) Install lamp socket in CHMSL.
- (3) Verify CHMSL operation.

TAIL, STOP, BACK-UP AND TURN SIGNAL LAMP BULB

REMOVAL

- (1) Remove tail lamp from vehicle.
- (2) Remove socket from lamp (Fig. 4).
- (3) Pull bulb from socket.

INSTALLATION

- (1) Insert bulb into socket.
- (2) Install socket in lamp.
- (3) Install tail lamp in vehicle.

TRUNK LID APPLIQUE LAMP BULB

REMOVAL

- (1) Remove trunk lid applique. Refer to section 23, Body, for procedure.

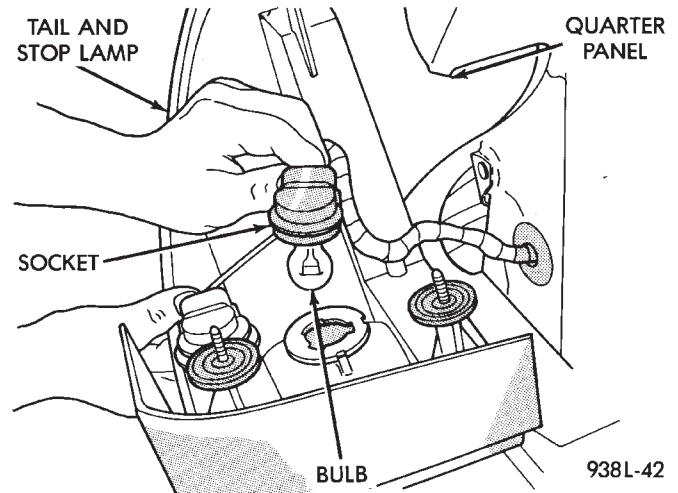


Fig. 4 Tail, Stop, Back-up and Turn Signal Lamp Bulb

- (2) Remove socket from applique lamp.
- (3) Pull bulb from socket.

INSTALLATION

- (1) Insert bulb into socket.
- (2) Install socket in applique lamp.
- (3) Install trunk lid applique to vehicle.

LICENSE PLATE LAMP BULB

REMOVAL

- (1) Release trunk latch and open trunk.
- (2) Remove license plate lamp from trunk lid or fascia.
- (3) Remove socket from license plate lamp (Fig. 5).
- (4) Pull bulb from socket.

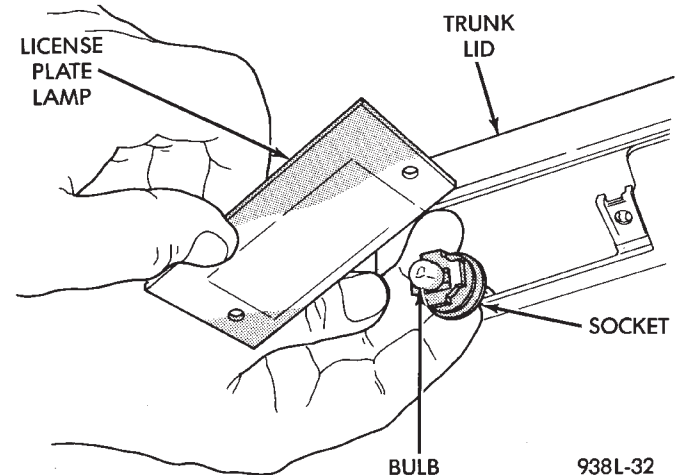


Fig. 5 License Plate Lamp Bulb—Typical

INSTALLATION

- (1) Insert bulb into socket.
- (2) Install socket in license plate lamp.
- (3) Install license plate lamp in trunk lid or fascia.
- (4) Verify lamp operation.

LAMP BULB SERVICE—LH/CP

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REMOVAL AND INSTALLATION

HEADLAMP BULBS

REMOVAL

- (1) Release hood latch and open hood.
- (2) Remove radiator closure panel sight shield as necessary to gain access to headlamps.
- (3) Remove screws holding headlamp module halves together.
- (4) Separate module halves.
- (5) Disengage wire connector from back of headlamp bulb.
- (6) Remove retaining ring holding bulb to lamp (Fig. 1).
- (7) Pull bulb from lamp.

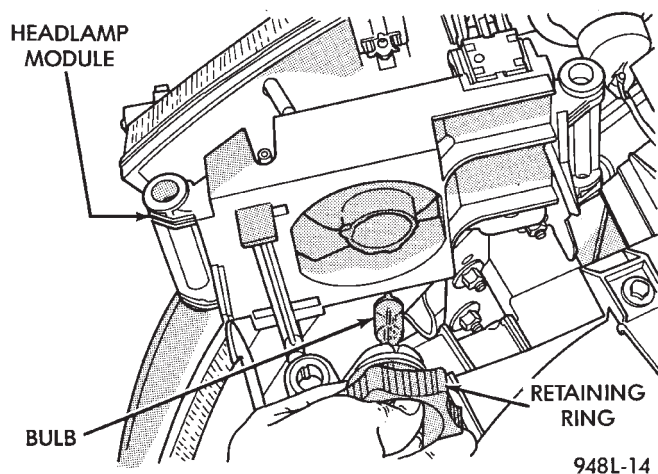


Fig. 1 Headlamp Bulb

INSTALLATION

CAUTION: Do not touch the glass of halogen bulbs with fingers or other possibly oily surface, reduced bulb life will result.

- (1) Push bulb into lamp.

- (2) Install retaining ring to hold bulb in lamp.
- (3) Engage wire connector to back of headlamp bulb.
- (4) Place lamp module in position on vehicle.
- (5) Install screws to hold headlamp module to vehicle.
- (6) Install radiator closure panel sight shield.
- (7) Verify headlamp operation and alignment.

FOG LAMP BULB

REMOVAL

- (1) Release hood latch and open hood.
- (2) Remove radiator closure panel sight shield as necessary to gain access to headlamps.
- (3) Remove screws holding headlamp module halves together.
- (4) Separate module halves.
- (5) Remove fog lamp wire connector cover.
- (6) Disengage wire connectors from fog lamp bulb (Fig. 2).
- (7) Disengage retainer clip holding bulb to fog lamp.
- (8) Separate bulb from fog lamp.

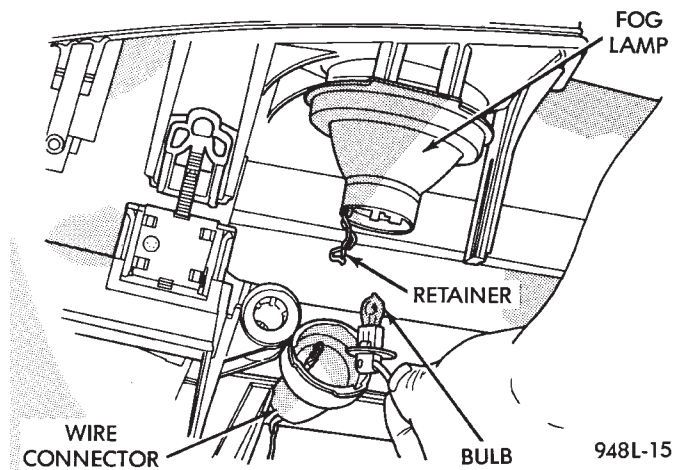


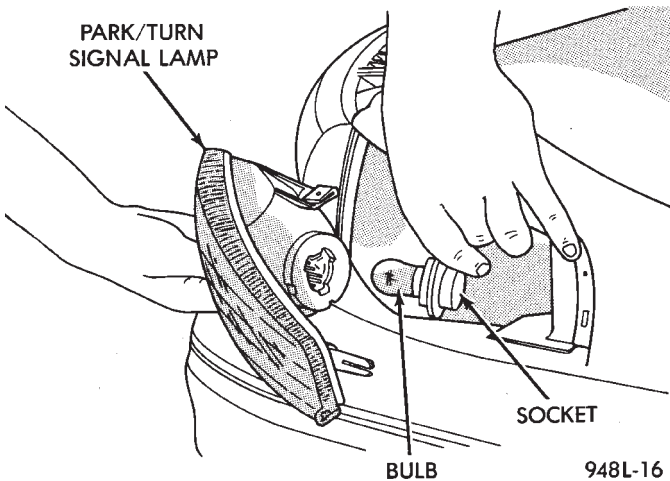
Fig. 2 Foglamp Bulb

REMOVAL AND INSTALLATION (Continued)**INSTALLATION**

- (1) Place bulb in position in fog lamp.
- (2) Engage retainer clip to hold bulb to fog lamp.
- (3) Engage wire connectors on fog lamp bulb.
- (4) Install fog lamp wire connector cover.
- (5) Place module halves together.
- (6) Install screws to hold headlamp module halves together.
- (7) Install radiator closure panel sight shield.
- (8) Verify fog lamp operation and alignment.

PARK AND TURN SIGNAL LAMP BULB**REMOVAL**

- (1) Release hood latch and open hood.
- (2) Remove radiator closure panel sight shield as necessary to gain access to lamp.
- (3) Remove screw holding park and turn signal lamp to headlamp module.
- (4) Separate park and turn signal lamp from vehicle.
- (5) Remove socket from park and turn signal lamp (Fig. 3).
- (6) Pull bulb from socket.

**Fig. 3 Park and Turn Signal Lamp Bulb****INSTALLATION**

- (1) Push bulb into socket.
- (2) Install socket into park and turn signal lamp.
- (3) Place park and turn signal lamp in position on vehicle.
- (4) Install screw to hold park and turn signal lamp to headlamp module.
- (5) Install radiator closure panel sight shield.
- (6) Verify park and turn signal lamp operation.

TAIL, STOP AND TURN SIGNAL LAMP BULB**REMOVAL**

- (1) Release trunk latch and open trunk lid.

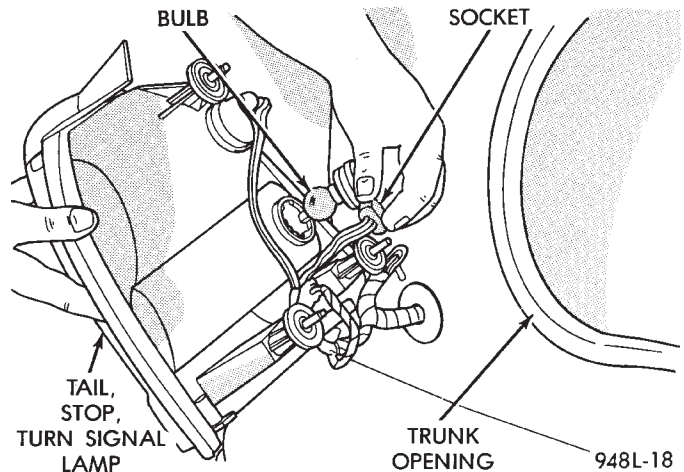
(2) Remove trunk lining from rear closure panel as necessary to gain access to tail lamp fasteners.

(3) Remove nuts holding tail lamp to rear closure panel.

(4) Separate tail lamp from rear closure panel.

(5) Remove socket from tail lamp (Fig. 4).

(6) Pull bulb from socket.

**Fig. 4 Tail, Stop and Turn Signal Lamp Bulb****INSTALLATION**

- (1) Push bulb into socket.
- (2) Install socket in tail lamp.
- (3) Place tail lamp in position on rear closure panel.
- (4) Install nuts to hold tail lamp to rear closure panel.
- (5) Install trunk lining.
- (6) Verify lamp operation.

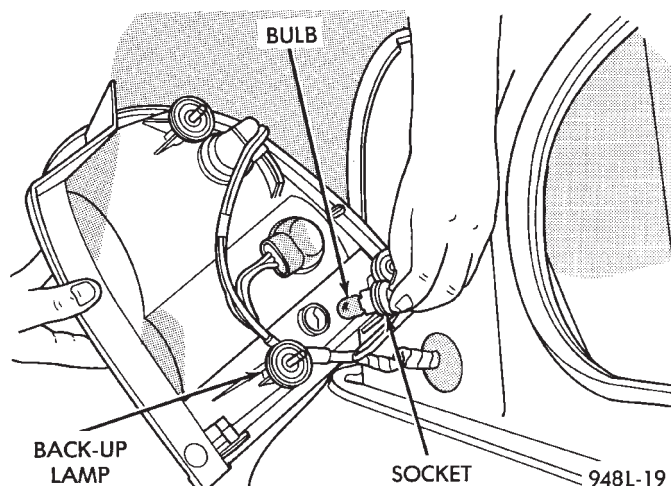
BACK-UP LAMP BULB**REMOVAL**

- (1) Release trunk latch and open trunk lid.
- (2) Remove trunk lining from rear closure panel as necessary to gain access to tail lamp fasteners.
- (3) Remove nuts holding tail lamp to rear closure panel.
- (4) Separate tail lamp from rear closure panel.
- (5) Remove socket from back-up lamp (Fig. 5).
- (6) Pull bulb from socket.

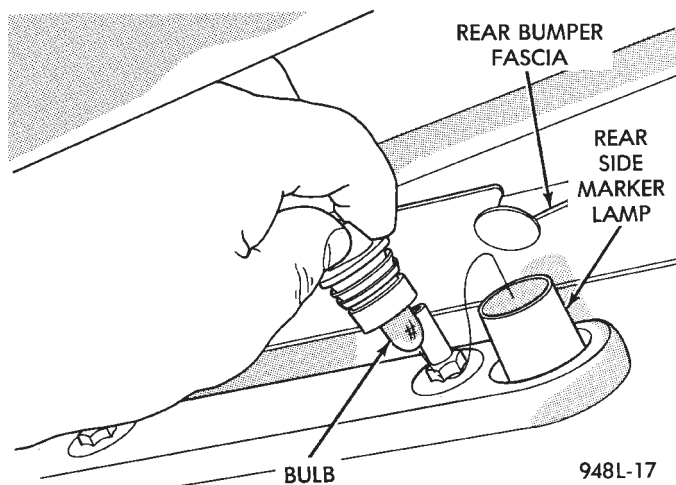
INSTALLATION

- (1) Push bulb into socket.
- (2) Install socket in back-up lamp.
- (3) Place tail lamp in position on rear closure panel.
- (4) Install nuts to hold tail lamp to rear closure panel.
- (5) Install trunk lining.
- (6) Verify lamp operation.

REMOVAL AND INSTALLATION (Continued)

**Fig. 5 Back-up Lamp Bulb****REAR SIDE MARKER LAMP BULB****REMOVAL**

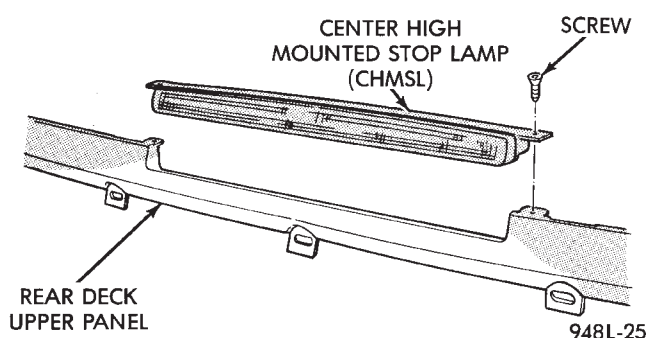
- (1) Hoist and support vehicle on safety stands.
- (2) From behind rear bumper fascia side panel, remove socket from side marker lamp (Fig. 6).
- (3) Pull bulb from side marker lamp socket.

**Fig. 6 Rear Side Marker Lamp Bulb****INSTALLATION**

- (1) Push bulb into side marker lamp socket.
- (2) Install socket in side marker lamp.
- (3) Lower vehicle and verify lamp operation.

CENTER HIGH MOUNTED STOP LAMP (CHMSL)**REMOVAL**

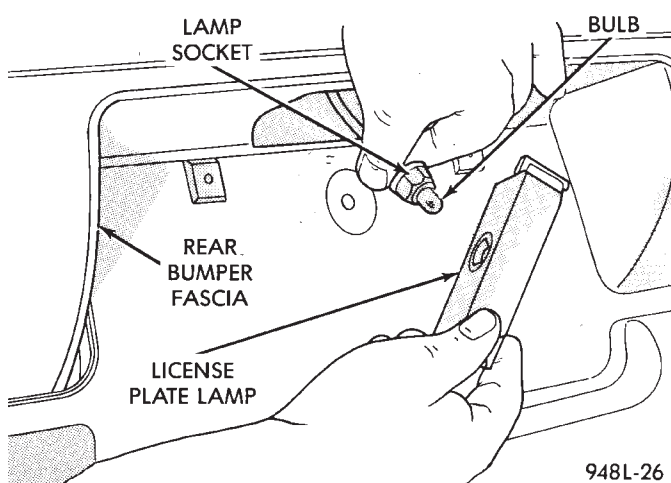
- (1) Release trunk latch and open trunk.
- (2) From under rear deck panel, disengage CHMSL wire connector from body harness.
- (3) Remove rear deck upper panel.
- (4) Remove screws holding CHMSL to rear deck upper panel (Fig. 7).
- (5) Separate CHMSL from rear deck upper panel.

**Fig. 7 Center High Mounted Stop Lamp (CHMSL)****INSTALLATION**

- (1) Place CHMSL in position on rear deck upper panel.
- (2) Install screws to hold CHMSL to rear deck upper panel.
- (3) Install rear deck upper panel.
- (4) Engage CHMSL wire connector from body harness.
- (5) Verify CHMSL operation.

LICENSE PLATE LAMP BULB**REMOVAL**

- (1) Remove screws holding license plate lamp to rear bumper fascia.
- (2) Separate license plate lamp from rear bumper fascia.
- (3) Remove socket from lamp (Fig. 8).
- (4) Pull bulb from socket.

**Fig. 8 License Plate Lamp Bulb****INSTALLATION**

- (1) Push bulb into socket.
- (2) Install socket into lamp.
- (3) Place license plate lamp in position on rear bumper fascia.
- (4) Install screws to hold license plate lamp to rear bumper fascia.

EXTERIOR LAMPS—LH/D-L-X

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HEADLAMP	13	TAIL, STOP AND TURN SIGNAL LAMP
		TRUNK LID APPLIQUE LAMP

REMOVAL AND INSTALLATION

HEADLAMP BUBBLE LEVEL

REMOVAL

- Release hood latch and open hood.
- Pry lock tab from forward end of bubble level (Fig. 1).
- Pull forward end of level upward to clear lock tabs on bottom of bubble level.
- Push bubble level rearward out of retaining channel on headlamp module.
- Separate level from vehicle.

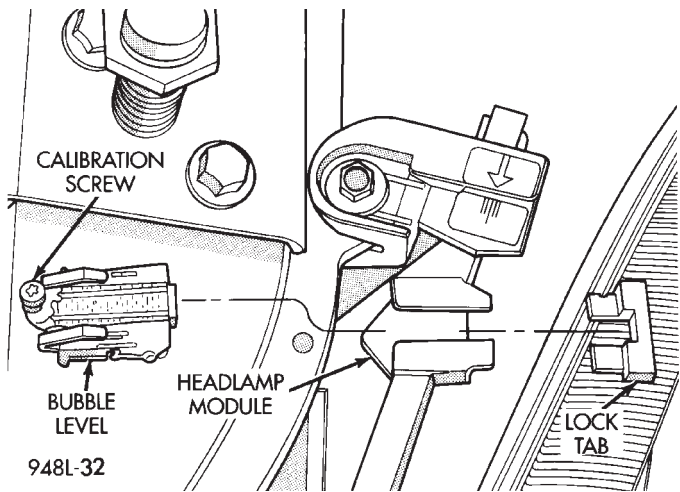


Fig. 1 Headlamp Bubble Level

INSTALLATION

- Place bubble level in position on vehicle.
- Pull bubble level forward into retaining channels on headlamp module until tabs lock.
- Install lock tab into forward end of bubble level.

(4) Calibrate bubble level. Refer to Headlamp Bubble Level Calibration in Headlamp Alignment section for proper procedure.

HEADLAMP

Headlamp lens fogging is a normal condition and does not require service. Moisture will vent from tubes or vents located on the back of the lamp.

REMOVAL

- Release hood latch and open hood.
- Remove screws holding headlamp to lamp module (Fig. 2).
- Separate headlamp from lamp module.
- Disengage wire connector from headlamp bulb.
- Separate headlamp from vehicle.

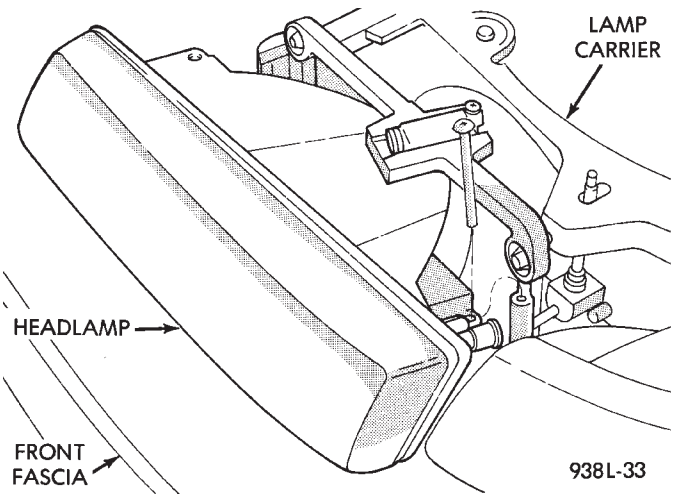


Fig. 2 Headlamp

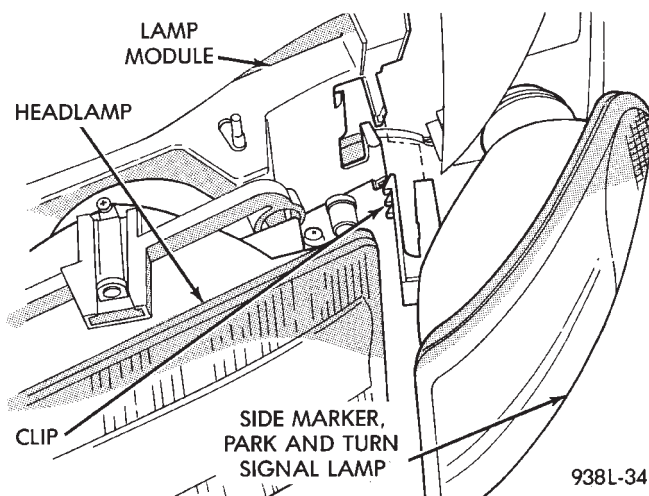
INSTALLATION

- Place headlamp in position on vehicle.
- Engage wire connector to headlamp bulb.
- Place headlamp lamp in position in module.
- Install screws to hold headlamp to lamp module.
- Verify headlamp operation and alignment.

REMOVAL AND INSTALLATION (Continued)

SIDE MARKER, PARK AND TURN SIGNAL LAMP**REMOVAL**

- (1) Release hood latch and open hood.
- (2) Disengage clips holding side marker, park and turn signal lamp to lamp module (Fig. 3).
- (3) Pull lamp body away from lamp module.
- (4) Remove bulb socket from lamp.
- (5) Separate lamp from vehicle.

**Fig. 3 Side Marker, Park and Turn Signal Lamp****INSTALLATION**

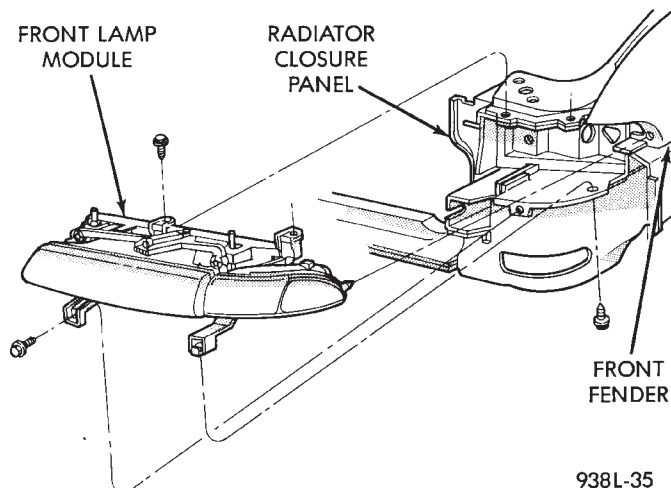
- (1) Place lamp in position on vehicle.
- (2) Install bulb socket in lamp.
- (3) Insert lamp into lamp module.
- (4) Verify lamp operation.

FRONT LAMP MODULE**REMOVAL**

- (1) Release hood latch and open hood.
- (2) Remove front bumper fascia. Refer to Group 13, Bumpers and Frame, for proper procedure.
- (3) Remove screws holding bottom of lamp module to radiator closure panel (Fig. 4).
- (4) Remove screws holding top of lamp module to radiator closure panel.
- (5) Separate lamp module from radiator closure panel.
- (6) Disengage wire connectors from bulb sockets on back of lamps.
- (7) Separate lamp module assembly from vehicle.

INSTALLATION

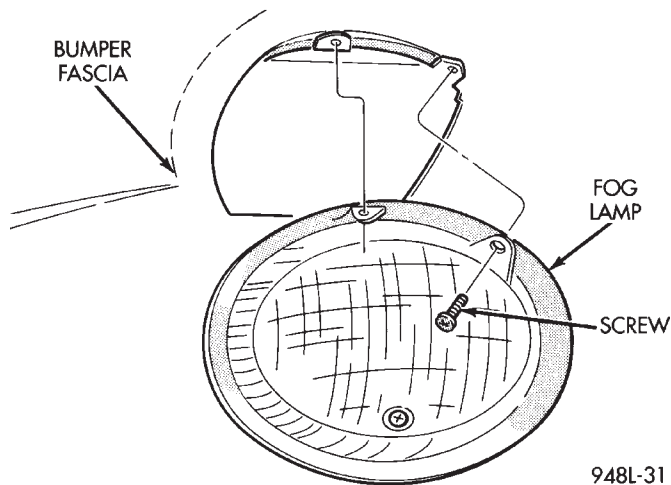
- (1) Place lamp module assembly in position on vehicle.
- (2) Engage wire connectors into bulb sockets on back of lamps.
- (3) Place lamp module in position on radiator closure panel.

**Fig. 4 Front Lamp Module**

- (4) Install screws to hold top of lamp module to radiator closure panel.
- (5) Install screws to hold bottom of lamp module to radiator closure panel.
- (6) Install front bumper fascia.
- (7) Verify headlamp alignment and calibrate bubble level. Refer to Headlamp Alignment procedures in this group.

FOG LAMP**REMOVAL**

- (1) Remove screws holding fog lamp to fascia (Fig. 5).
- (2) Pull fog lamp forward from opening in front bumper fascia.
- (3) Disengage fog lamp wire connector from front lighting wire harness.
- (4) Separate fog lamp from vehicle.

**Fig. 5 Fog Lamp—Typical**

REMOVAL AND INSTALLATION (Continued)**INSTALLATION**

- (1) Place fog lamp in position on vehicle.
- (2) Engage fog lamp wire connector to front lighting wire harness.
- (3) Insert fog lamp rearward into opening in front bumper fascia.
- (4) Install screws to hold fog lamp to fascia.
- (5) Verify fog lamp operation and alignment. Refer to Fog Lamp Alignment procedures in this group.

CENTER HIGH MOUNTED STOP LAMP (CHMSL)**REMOVAL**

- (1) Remove parcel shelf trim panel. Refer to Group 23, Body, for proper procedures.
- (2) Disengage CHMSL wire connector from body wire harness.
- (3) Remove nuts holding CHMSL to back of trim panel.
- (4) Separate CHMSL from parcel shelf trim.

INSTALLATION

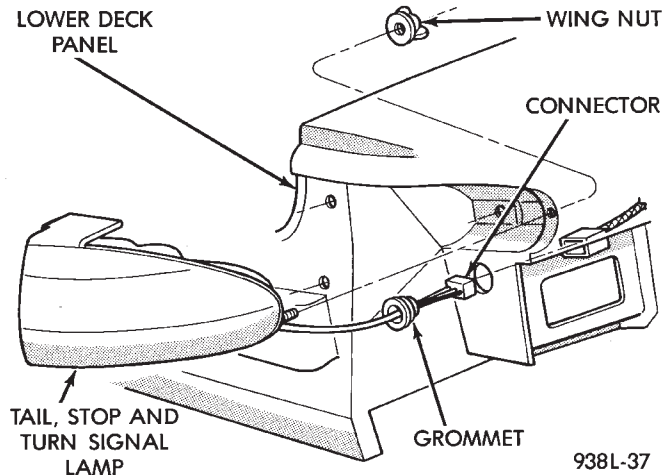
- (1) Place CHMSL in position on parcel shelf trim.
- (2) Install nuts to hold CHMSL to back of trim panel.
- (3) Engage CHMSL wire connector to body wire harness.
- (4) Install parcel shelf trim panel.

TAIL, STOP AND TURN SIGNAL LAMP**REMOVAL**

- (1) Release trunk latch and open trunk lid.
- (2) Remove fasteners holding trunk lining to lower rear deck panel.
- (3) Separate trunk lining from deck panel.
- (4) Disengage tail lamp wire connector from body wire harness.
- (5) Remove nuts holding tail lamp to lower deck and quarter panel (Fig. 6).
- (6) Separate tail lamp from vehicle.
- (7) Disengage wire harness grommet from lower deck panel and pull wire harness through hole in body.

INSTALLATION

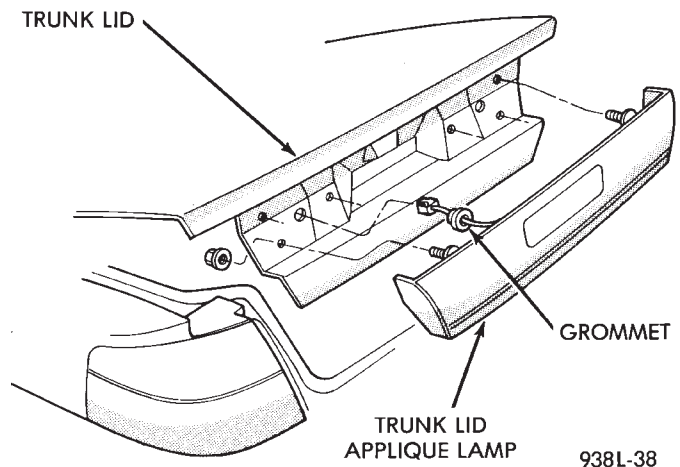
- (1) Insert wire harness through hole in lower deck panel.
- (2) Engage wire harness grommet into lower deck panel.
- (3) Place tail lamp in position on vehicle.
- (4) Install nuts to hold tail lamp to lower deck and quarter panel.
- (5) Engage tail lamp wire connector to body wire harness.
- (6) Place trunk lining in position on lower deck panel.

**Fig. 6 Tail, Stop and Turn Signal**

- (7) Install fasteners to hold trunk lining to lower rear deck panel.
- (8) Verify lamp operation.

TRUNK LID APPLIQUE LAMP**REMOVAL**

- (1) Release trunk latch and open trunk lid.
- (2) Remove push-in fasteners holding trunk lid lining to back of trunk lid.
- (3) Position trunk lid lining out of the way.
- (4) Disengage applique lamp wire connector from trunk lid harness.
- (5) Remove nuts holding applique lamp to trunk lid.
- (6) Separate applique lamp from trunk lid (Fig. 7).
- (7) Remove wire harness grommet from hole in trunk lid.
- (8) Pull wire harness from trunk lid.
- (9) Separate applique lamp from vehicle.

**Fig. 7 Trunk Lid Applique Lamp**

REMOVAL AND INSTALLATION (Continued)

INSTALLATION

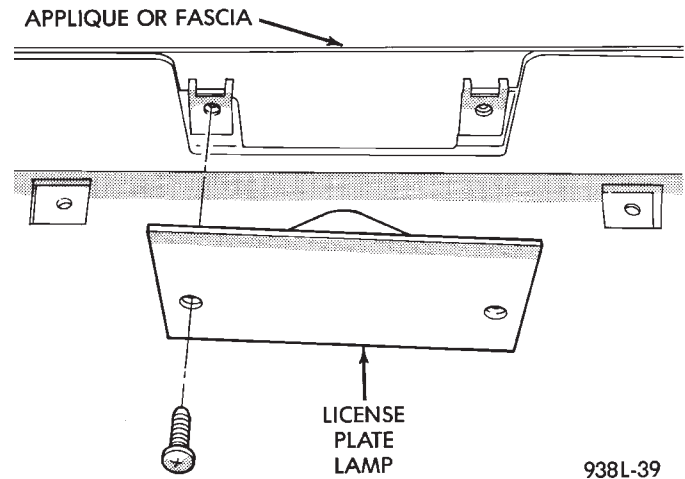
- (1) Place applique lamp in position on vehicle.
- (2) Insert wire harness into trunk lid.
- (3) Install wire harness grommet in hole in trunk lid.
- (4) Place applique lamp in position on trunk lid.
- (5) Install nuts to hold applique lamp to trunk lid.
- (6) Engage applique lamp wire connector to trunk lid harness.
- (7) Place trunk lid lining in position.
- (8) Install push-in fasteners to hold trunk lid lining to back of trunk lid.

LICENSE PLATE LAMP**REMOVAL**

- (1) Remove screws holding license plate lamp to trunk lid applique or fascia (Fig. 8).
- (2) Separate license plate lamp from vehicle.
- (3) Remove bulb socket from lamp.

INSTALLATION

- (1) Install bulb socket into lamp.
- (2) Place license plate lamp in position on vehicle.

**Fig. 8 License Plate Lamp**

- (3) Install screws to hold license plate lamp to trunk lid applique or fascia.

EXTERIOR LAMP SERVICE—LH/CP

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REMOVAL AND INSTALLATION

HEADLAMP BUBBLE LEVEL

REMOVAL

- (1) Release hood latch and open hood.
- (2) Remove radiator closure panel sight shield as necessary to gain access to bubble level.
- (3) Using a small flat blade screw driver, pry upward on the retaining tabs at the front of the level (Fig. 1).
- (4) Push level rearward until retaining tabs disengage from the channels on the sides of the level.
- (5) Separate level from vehicle.

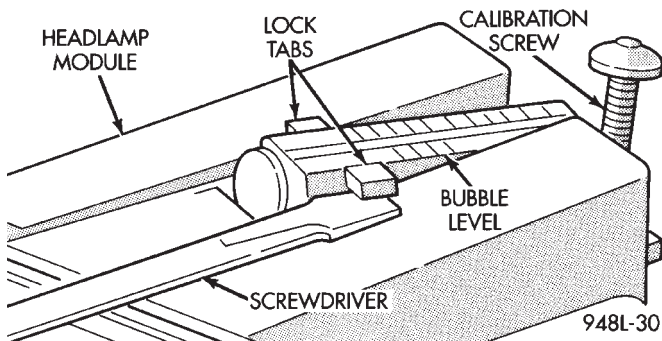


Fig. 1 Headlamp Bubble Level

INSTALLATION

- (1) Place level in position on vehicle.
- (2) Push level forward until retaining tabs slide into the channels at the sides of the level.
- (3) Calibrate bubble level. Refer to Headlamp Bubble Level Calibration in Headlamp Alignment section for proper procedure.
- (4) Install radiator closure panel sight shield.

HEADLAMP MODULE

REMOVAL

- (1) Release hood latch and open hood.

- (2) Remove radiator closure panel sight shield as necessary to gain access to headlamp fasteners.
- (3) Remove screws holding headlamp module to mount adapter (Fig. 2).
- (4) Separate headlamp module from mount adapter.
- (5) Disengage wire connectors from headlamp and fog lamp.
- (6) Separate headlamp from vehicle.

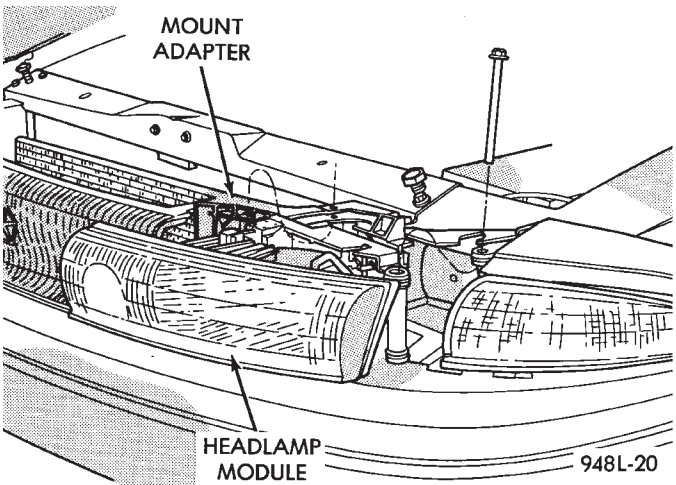


Fig. 2 Headlamp Module

INSTALLATION

- (1) Engage wire connectors to headlamp and fog lamp.
- (2) Place headlamp module in position on mount adapter.
- (3) Install screws to hold headlamp module to mount adapter.
- (4) Install radiator closure panel sight shield.
- (5) Verify headlamp alignment.

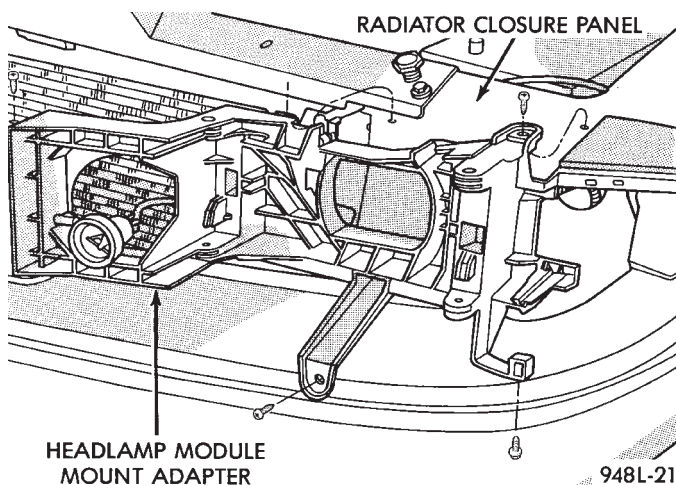
HEADLAMP MODULE MOUNT ADAPTER

REMOVAL

- (1) Remove headlamp module.
- (2) Remove park and turn signal lamp.

REMOVAL AND INSTALLATION (Continued)

- (3) From behind front bumper fascia, remove bolts holding mount adapter to radiator closure panel (Fig. 3).
- (4) Remove radiator grille.
- (5) Remove bolts holding top of mount adapter to radiator closure panel.
- (6) Separate mount adapter from vehicle.

**Fig. 3 Headlamp Module Mount Adapter****INSTALLATION**

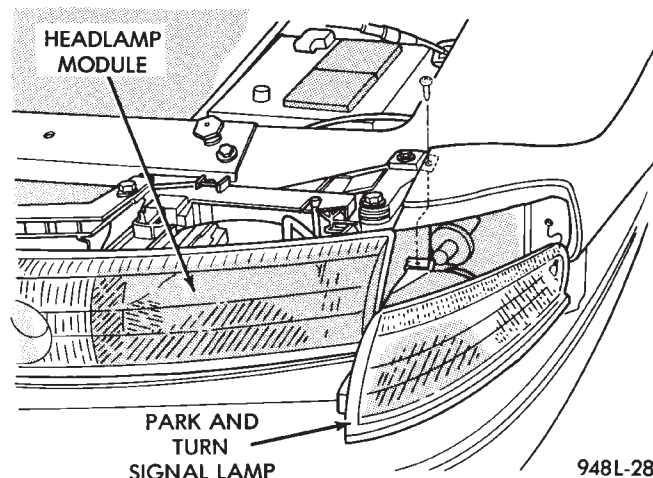
- (1) Place mount adapter in position on vehicle.
- (2) Install bolts to hold top of mount adapter to radiator closure panel.
- (3) Install radiator grille.
- (4) From behind front bumper fascia, install bolts to hold mount adapter to radiator closure panel.
- (5) Install park and turn signal lamp.
- (6) Install headlamp module.
- (7) Verify headlamp bubble level and arrow calibration and headlamp alignment.

PARK AND TURN SIGNAL LAMP**REMOVAL**

- (1) Release hood latch and open hood.
- (2) Remove radiator closure panel sight shield as necessary to gain access fasteners.
- (3) Remove screw holding park and turn signal lamp to headlamp module mount adapter.
- (4) Separate park and turn signal lamp from mount adapter (Fig. 4).
- (5) Remove socket from park and turn signal lamp.
- (6) Separate park and turn signal lamp from vehicle.

INSTALLATION

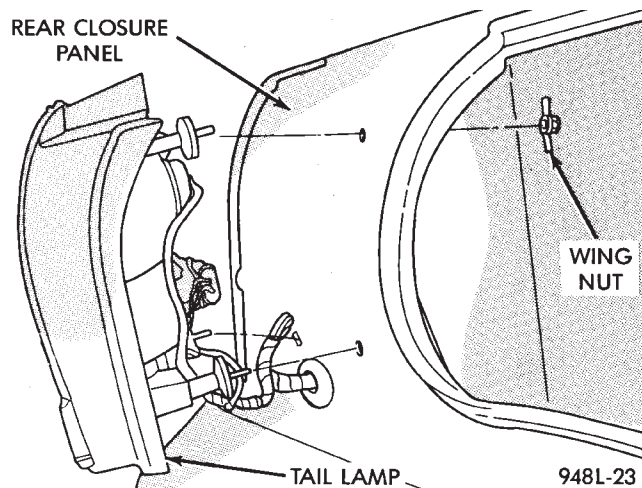
- (1) Place park and turn signal lamp in position on vehicle.
- (2) Install socket into park and turn signal lamp.
- (3) Place park and turn signal lamp in position on mount adapter.

**Fig. 4 Park and Turn Signal Lamp**

- (4) Install screw to hold park and turn signal lamp to headlamp module mount adapter.
- (5) Install radiator closure panel sight shield.
- (6) Verify park and turn signal lamp operation.

TAIL, STOP, BACK-UP AND TURN SIGNAL LAMP**REMOVAL**

- (1) Release trunk latch and open trunk.
- (2) Remove rear closure lining as necessary to gain access to tail lamp fasteners.
- (3) Remove wing nuts holding tail lamp to rear closure panel (Fig. 5).
- (4) Disengage tail lamp wire connector from body wire harness.
- (5) Disengage rubber grommet from rear closure panel.
- (6) Separate tail lamp from rear closure panel.
- (7) Pull tail lamp wire harness through hole in rear closure panel.
- (8) Separate tail lamp from vehicle.

**Fig. 5 Tail, Stop, Back-up and Turn Signal Lamp**

REMOVAL AND INSTALLATION (Continued)

INSTALLATION

- (1) Place tail lamp in position on vehicle.
- (2) Push tail lamp wire harness through hole in rear closure panel.
- (3) Engage rubber grommet into rear closure panel.
- (4) Place tail lamp in position on rear closure panel.
- (5) Engage tail lamp wire connector to body wire harness.
- (6) Install wing nuts to hold tail lamp to rear closure panel.
- (7) Install rear closure panel lining.
- (8) Verify tail lamp operation.

REAR SIDE MARKER LAMP

REMOVAL

- (1) Remove rear side marker lamp bulb and socket.
- (2) Remove nuts holding rear side marker lamp to rear bumper fascia (Fig. 6).
- (3) Separate rear side marker lamp from vehicle.

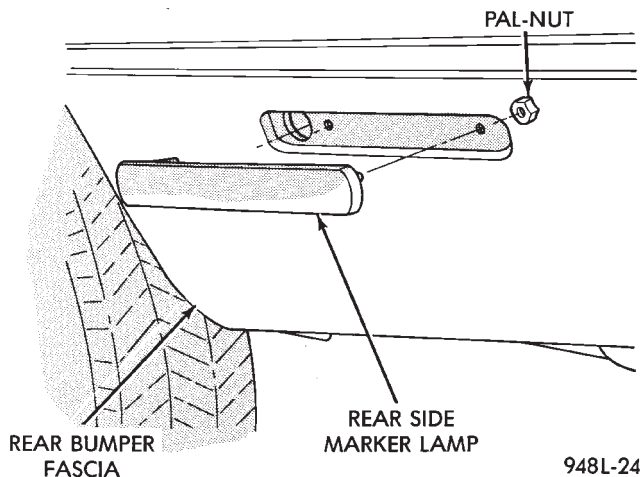


Fig. 6 Rear Side Marker Lamp

INSTALLATION

- (1) Place rear side marker lamp in position on vehicle.
- (2) Install nuts to hold rear side marker lamp to rear bumper fascia.
- (3) Install rear side marker lamp bulb and socket.

CENTER HIGH MOUNTED STOP LAMP (CHMSL)

REMOVAL

- (1) Release trunk latch and open trunk.
- (2) From under rear deck panel, disengage CHMSL wire connector from body harness.
- (3) Remove rear deck upper panel.
- (4) Remove screws holding CHMSL to rear deck upper panel (Fig. 7).

- (5) Separate CHMSL from rear deck upper panel.

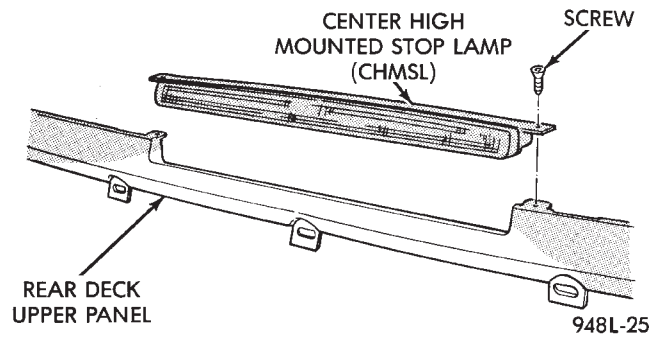


Fig. 7 Center High Mounted Stop Lamp (CHMSL)

INSTALLATION

- (1) Place CHMSL in position on rear deck upper panel.
- (2) Install screws to hold CHMSL to rear deck upper panel.
- (3) Install rear deck upper panel.
- (4) Engage CHMSL wire connector to body harness.
- (5) Verify CHMSL operation.

LICENSE PLATE LAMP

REMOVAL

- (1) Remove screws holding license plate lamp to rear bumper fascia (Fig. 8).
- (2) Separate license plate lamp from rear bumper fascia.
- (3) Remove socket from lamp.
- (4) Separate license plate lamp from vehicle.

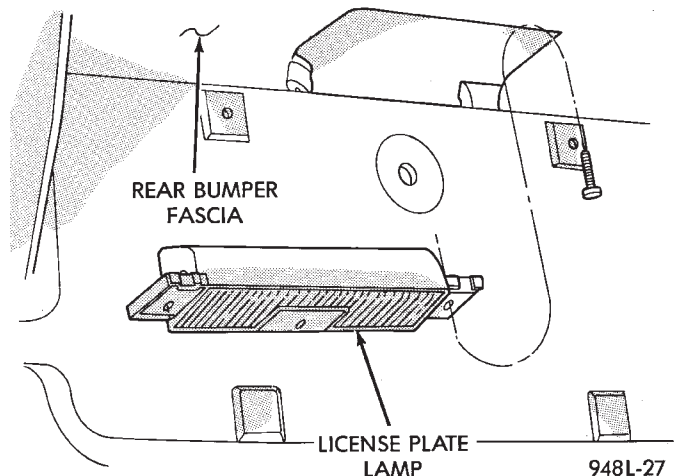


Fig. 8 License Plate Lamp

INSTALLATION

- (1) Install socket into lamp.
- (2) Place license plate lamp in position on rear bumper fascia.
- (3) Install screws to hold license plate lamp to rear bumper fascia.

LIGHTING SYSTEMS

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GENERAL INFORMATION

DAYTIME RUNNING LAMPS—CANADA ONLY

The daytime running lamps are controlled by the Daytime Running Lamp Relay (DRLR). The DRLR is located in the engine compartment attached to the radiator closure panel. The DRLR allows the high beam headlamps to illuminate at 50% of the switched ON brightness when the engine is running with the headlamp switch OFF. The daytime running lamps will go out when the headlamp switch is pulled out. The passing light feature will flash bright high beams while the daytime running lamps are activated.

HEADLAMP TIME DELAY SYSTEM

The optional Headlamp Time Delay system is controlled by the Body Control Module (BCM) through the headlamp delay relay. The headlamp time delay system is activated by turning the headlamps ON (high or low beam) while the engine is running, turning the ignition switch OFF, and then turning the headlamp switch OFF within 45 seconds. The system will not activate if more than 45 seconds elapse between ignition switch OFF and headlamp switch OFF. The BCM will allow the headlamps to remain ON for 90 seconds before they automatically turn off. Refer to the Owner's Manual for more information.

COURTESY LAMPS

The Body Control Module (BCM) illuminates the courtesy lamps whenever a door is opened. When the last door is closed, the BCM "fades-to-OFF" the courtesy lamps in five seconds. If a door is left ajar, the courtesy lamps remain on for a maximum of one hour when ignition switch is OFF. After one hour, the BCM "fades-to-OFF" the courtesy lamps.

NOTE: If the dome lamp switch is in the ON position, the BCM will not turn off the dome lamp. This switch is connected directly to the lamp.

IGNITION KEY-IN LAMP

The ignition key-in feature provides the operation of the ignition key halo lamp when entering the vehicle. The driverside door ajar switch closing (door opening) when the ignition is OFF signals the Body Control Module (BCM) to turn ON the ignition key halo lamp. After the driverside door closes, the lamp remains on for approximately 30 seconds or until the ignition switch is moved to the RUN position. This feature is not available for at least 30 seconds after the ignition switch is turned OFF to prevent illuminating the key halo lamp when the driver exits the vehicle. If no doors are opened and then shut after the ignition switch is turned OFF, this feature is not available for 15 minutes.

ILLUMINATED ENTRY

The Illuminated Entry System is available on vehicles equipped with the Remote Keyless Entry system. The Illuminated Entry System turns ON the courtesy lamps (except ignition key halo lamp) when the remote keyless entry system is activated. The Remote Keyless Entry Module and the Body Control Module (BCM) are used to control the system. Courtesy lamps will turn on for 30 seconds (± 1 second) and "fade-to-OFF" over a five second period.

The Illuminated Entry System also turns ON the courtesy lamps (and ignition key halo lamp) when a door is opened. The courtesy lamps will remain ON while the door is open, then "fade-to-OFF" 30 seconds (± 1 second) after the last door is closed.

The courtesy and ignition key halo lamps will "fade-to-OFF" immediately when the ignition is switched to ON.

The Illuminated Entry System cannot be activated during the 30 second (± 1 second) period after the ignition switch is turned OFF. If a door is opened and closed during this 30 second period, the system will function as previously described.

If the battery voltage is interrupted to the Illuminated Entry System, the system will not function

GENERAL INFORMATION (Continued)

until the Remote Keyless Entry UNLOCK function is actuated.

ULTRALIGHT SYSTEM

The Ultralight system turns the instrumentation and exterior illumination lamps ON when the ambient light levels are low and OFF when light levels are high. Ultralight is controlled by the Body Control Module (BCM). With the headlamp switch in the AUTO position, the BCM will control the headlamp, parking, side marker, tail and instrumentation lamps based on ambient light levels. Ambient light levels are monitored by the BCM using the automatic temperature control system Sunload Sensor, located on the top of the instrument panel cover. Ambient light readings are averaged to limit cycling the lamps ON and OFF when passing through areas with varying light levels. Ultralight will only function when the engine is running. When the headlamp switch is in the AUTO position (Ultralight mode), the Headlamp Time Delay system will function when the ignition is switched OFF.

DIAGNOSIS AND TESTING

DAYTIME RUNNING LAMP

The Daytime Running Light Relay (DRLR) is controlled by inputs received from the Speed Sensor,

Headlamp Switch and the Powertrain Control Module. Refer to Group 8W, Wiring Diagrams, for component location and circuit information.

ILLUMINATED ENTRY

When testing the system, all doors must be closed to prevent courtesy lamps from lighting. Verify that remote keyless entry system is operating properly before testing illuminated entry circuits. The body controller uses input from the remote keyless entry system to switch ON the courtesy lamps.

Refer to Group 8W, Wiring Diagrams, for component location and circuit information. Refer to Body Systems Diagnostic Procedures Manual for complete diagnostic information.

ALL OTHER LIGHTING SYSTEMS

Refer to Group 8W, Wiring Diagrams, for component locations and circuit information. For additional diagnostic information, refer to the appropriate Body Diagnostic Procedures manual.

BULB APPLICATION

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SPECIFICATIONS

GENERAL INFORMATION

The following Bulb Application Tables lists the lamp title on the left side of the column and trade number or part number on the right.

CAUTION: Do not use bulbs that have a higher candle power than the bulb listed in the Bulb Application Table. Damage to lamp can result.

CAUTION: Do not touch halogen bulbs with fingers or other oily surfaces. Bulb life will be reduced.

EXTERIOR LAMP BULBS

LAMP NAME	BULB NUMBER
Back-up—LH/D—L—X	3157
Back-up—LH/CP	3157
Center High Mounted Stop— Two Bulb Application—LH/D—L—X	921
Center High Mounted Stop— One Bulb Application—LH/D—L—X	3157
Center High Mounted Stop—LH/CP	LED
Fog—All	H-3
Headlamp/Aero—All	9007
License Plate—All	168
Park/Turn Signal/Side Marker—All	3157NA
Rear Side Marker—LH/CP	168
Rear Side Marker—LH/D	194
Tail—LH/X	916
Stop/Turn Signal—LH/X	3157
Tail/Stop/Turn Signal—LH/CP—D—L	3057

DIMMER CONTROLLED INTERIOR LAMPS

Service procedures for most of the lamps in the instrument panel, Instrument cluster and switches are located in Group 8E, Instrument Panel and Gauges. Some components have lamps that can only be serviced by a Authorized Service Center (ASC) after the component is removed from the vehicle. Contact local dealer for location of nearest ASC.

LAMP LOCATION	BULB NUMBER
A/C Heater Control	330
Ash Receiver	161
Headlamp Switch	4437661
Instrument Cluster	PC194
Radio	ASC
Traction Control Switch	4437661

NON-DIMMER CONTROLLED INTERIOR LAMPS

Service procedures for most of the lamps in the following list can be found in Group 23, Body. Some components have lamps that can only be serviced by a Authorized Service Center (ASC) after the component is removed from the vehicle. Contact local dealer for location of nearest ASC.

LAMP LOCATION	BULB NUMBER
Door Courtesy	212-2
Engine Compartment	105
Glove Compartment	194
Ignition Lock	ASC
Overhead Console	192
Overhead Information Center	4437661
Reading Lamp—Front or Rear	192
Trunk	89
Visor Vanity	6501966

SPECIFICATIONS (Continued)

INDICATOR LAMPS

Service procedures for most of the lamps in the instrument panel, instrument cluster and switches are located in Group 8E, Instrument Panel and Gauges.

INDICATOR	BULB NUMBER
Air Bag—LH/D	PC194
Air Bag—LH/CP-X-L	74
Anti-lock Brake—LH/CP-D	PC161
Anti-lock Brake—LH/X-L	4437661
Brake Warning—LH/D	121
Brake Warning—LH/CP-X-L	74
Check Engine—LH/D	PC194
Check Engine—LH/CP-X-L	74
Door Open—LH/CP-D	PC161
Door Open—LH/X-L	4437661
Engine Oil Pressure—LH/D	PC194
Engine Oil Pressure—LH/CP-X-L	74

INDICATOR	BULB NUMBER
Engine Temperature—LH/D	121
Engine Temperature—LH/CP-X-L	74
Generator—LH/D	PC194
Generator—LH/CP-X-L	74
High Beam—LH/D	121
High Beam—LH/CP-X-L	74
Low Fuel	121
Message Center—LH/CP-D	PC161
Message Center—LH/X-L	4437661
Seat Belt—LH/D	PC194
Seat Belt—LH/CP-X-L	74
Speed Control	PC194
Trunk Open—LH/D	PC161
Trunk Open—LH/X-L	4437661
Turn Signal—LH/D Right	121
Turn Signal—LH/D Left	PC194
Turn Signal—LH/CP-X-L	PC194

