

LAMPS

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LAMP DIAGNOSIS

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GENERAL INFORMATION

GENERAL INFORMATION

Each vehicle is equipped with various lamp assemblies. A good ground is necessary for proper lighting operation. Grounding is provided by the lamp socket when it comes in contact with the metal body, or through a separate ground wire.

When changing lamp bulbs check the socket for corrosion. If corrosion is present, clean it with a wire brush and coat the inside of the socket lightly with Mopar Multi-Purpose Grease or equivalent.

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

DIAGNOSIS AND TESTING

DIAGNOSTIC PROCEDURES

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.

DIAGNOSIS AND TESTING (Continued)

HEADLAMP DIAGNOSIS

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. Should not exceed 30 amps. 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 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 fog lamp circuit 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 voltage drop across Z1-ground, refer to Group 8W. 3. Test amperage draw of fog lamp circuit. 4. Replace both fog lamp bulbs.
FOG LAMPS FLASH RANDOMLY.	1. Poor fog lamp circuit ground. 2. High resistance in fog lamp circuit. 3. Faulty fog lamp switch circuit breaker. 4. Loose or corroded terminals or splices in circuit.	1. Repair circuit ground, refer to Group 8W. 2. Test amperage draw of fog lamp circuit. 3. Replace fog lamp switch. 4. Repair connector terminals or splices, refer to Group 8W.
FOG LAMPS DO NOT ILLUMINATE.	1. Blown fuse for fog lamps. 2. No 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 splices.

DIAGNOSIS AND TESTING (Continued)

DAYTIME RUNNING LAMP DIAGNOSIS

DAYTIME RUNNING LAMP DIAGNOSIS

CONDITION	POSSIBLE CAUSES	CORRECTION
DAYTIME RUNNING LAMPS DO NOT WORK	1. Poor connection at DRL module. 2. Parking brake engaged. 3. Parking brake circuit shorted to ground. 4. Headlamp circuit shorted to ground. 5. Defective DRL module.	1. Secure connector on DRL module. 2. Disengage parking brake. 3. Check voltage on pin 3 of module, refer to Group 8W. 4. Check L3 circuit, refer to Group 8W. 5. Replace DRL module.

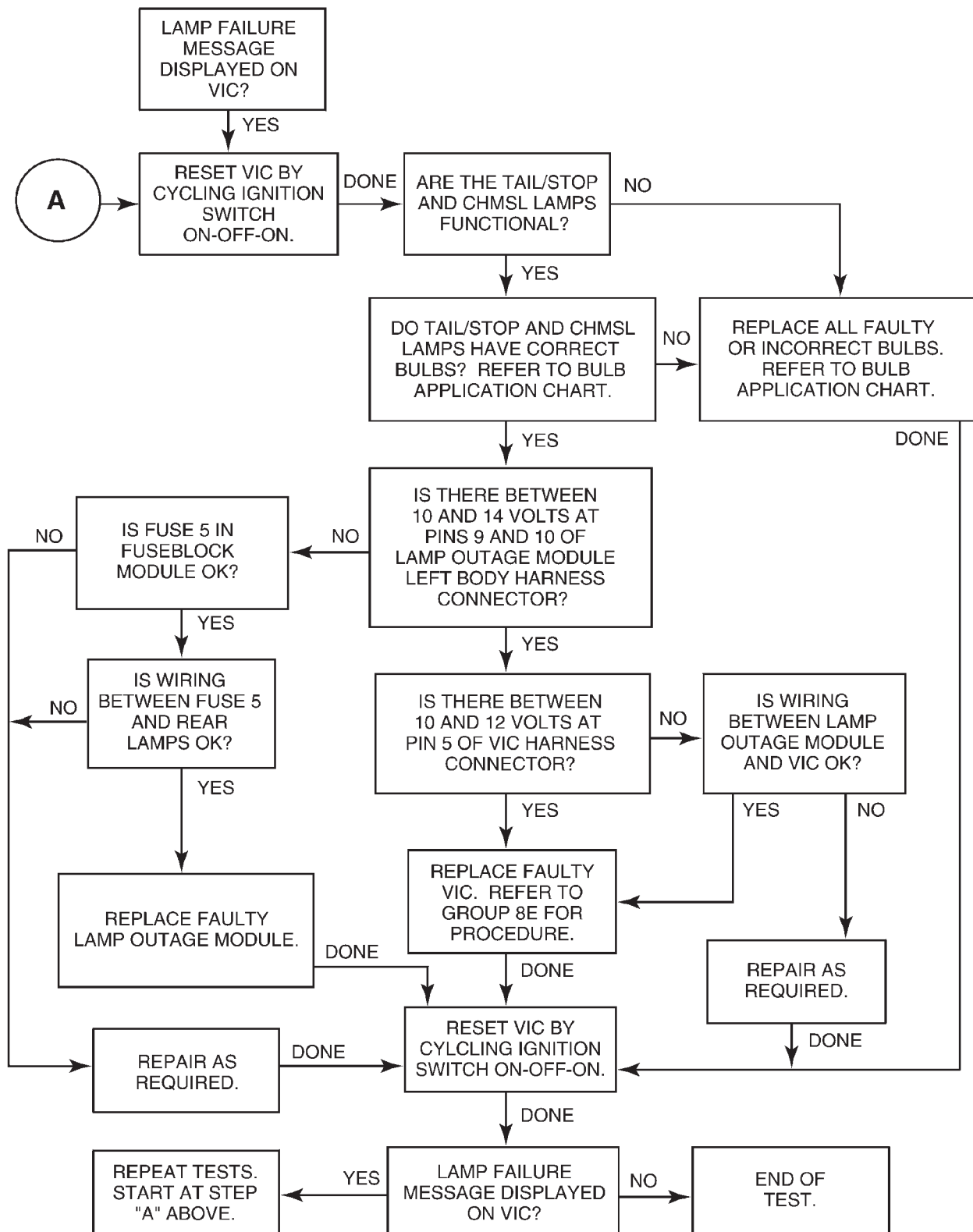
LAMP OUTAGE MODULE DIAGNOSIS

NOTE: The Lamp Outage Module contains an internal circuit breaker. When the module senses an overload it will trip the circuit breaker and illumi-

nate a failure in the Vehicle Information Center (VIC). The circuit breaker will reset once the vehicle is turned off for approximately 60 seconds. Continuous tripping of the circuit breaker may indicate a circuit problem.

DIAGNOSIS AND TESTING (Continued)

LAMP OUTAGE MODULE DIAGNOSIS



HEADLAMP ALIGNMENT

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GENERAL INFORMATION

HEADLAMP ALIGNMENT

Headlamps can be aligned using the screen method provided in this section. Alignment Tool C-4466-A or equivalent can also be used. Refer to instructions provided with the tool for proper procedures. **The preferred headlamp alignment setting is 0 for the left/right adjustment and 1" down for the up/down adjustment.**

SERVICE PROCEDURES

HEADLAMP ALIGNMENT PREPARATION

- (1) Verify headlamp dimmer switch and high beam indicator operation.
- (2) Correct defective components that could hinder 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.

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 (Fig. 1).
- (2) If necessary, tape a line on the floor 7.62 meters (25 ft) away from and parallel to the wall.
- (3) Measure from the floor up 1.27 meters (5 ft) and 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.

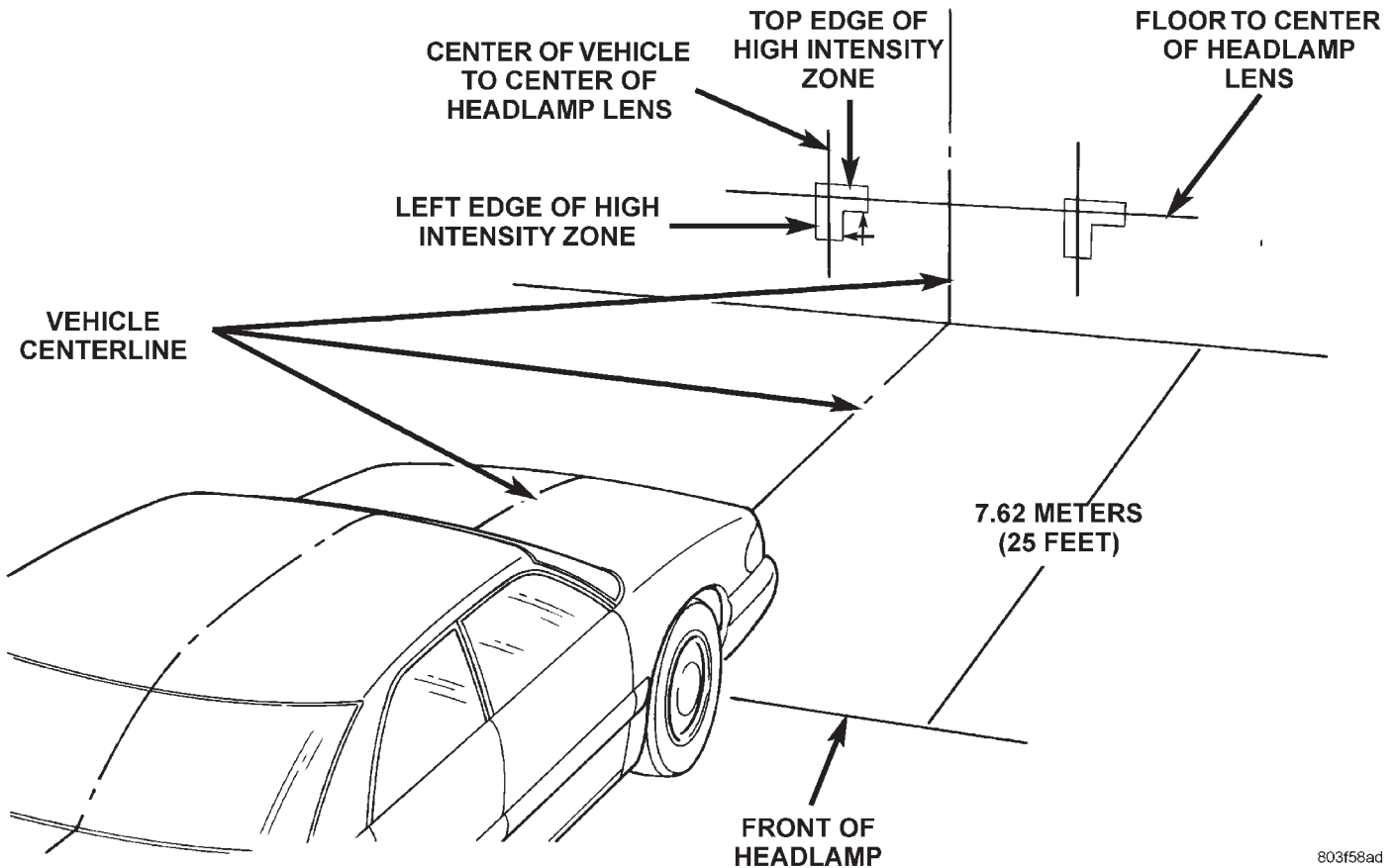
- (4) Rock vehicle side-to-side three times to allow suspension to stabilize.
- (5) Jounce front suspension three times by pushing downward on front bumper and releasing.
- (6) Measure the distance from the center of headlamp lens to the floor. Transfer measurement to the alignment screen (with tape). Use this line for up/down adjustment reference.
- (7) Measure distance from the centerline of the vehicle to the center of each headlamp being aligned. Transfer measurements to screen (with tape) to each side of vehicle centerline. Use these lines for left/right adjustment reference.

HEADLAMP ADJUSTMENT USING ALIGNMENT SCREEN

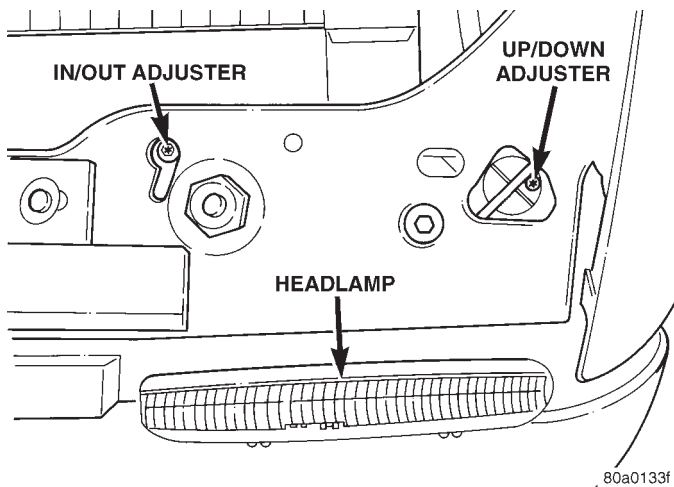
A properly aimed low beam will project the top edge of high intensity pattern on the screen from 50 mm (2 in.) above to 50 mm (2 in.) below headlamp centerline. The side-to-side left edge of high intensity pattern should be from 50 mm (2 in.) left to 50 mm (2 in.) right of headlamp centerline (Fig. 1). **The preferred headlamp alignment is 0 for the left/right adjustment and 1" down for the up/down adjustment.** The high beams on a vehicle with aero headlamps cannot be aligned. The high beam pattern should be correct when the low beams are aligned properly.

To adjust headlamp aim, rotate alignment screws (Fig. 2).

SERVICE PROCEDURES (Continued)



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Fig. 1 Headlamp Alignment Screen—Typical

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Fig. 2 Aero Headlamp Alignment Screws**FOG LAMP ADJUSTMENT**

Prepare an alignment screen. A properly aligned fog lamp will project a pattern on the alignment screen 100 mm (4 in.) below the fog lamp centerline and straight ahead (Fig. 3).

Rotate the adjustment screw (Fig. 4) to obtain the correct pattern.

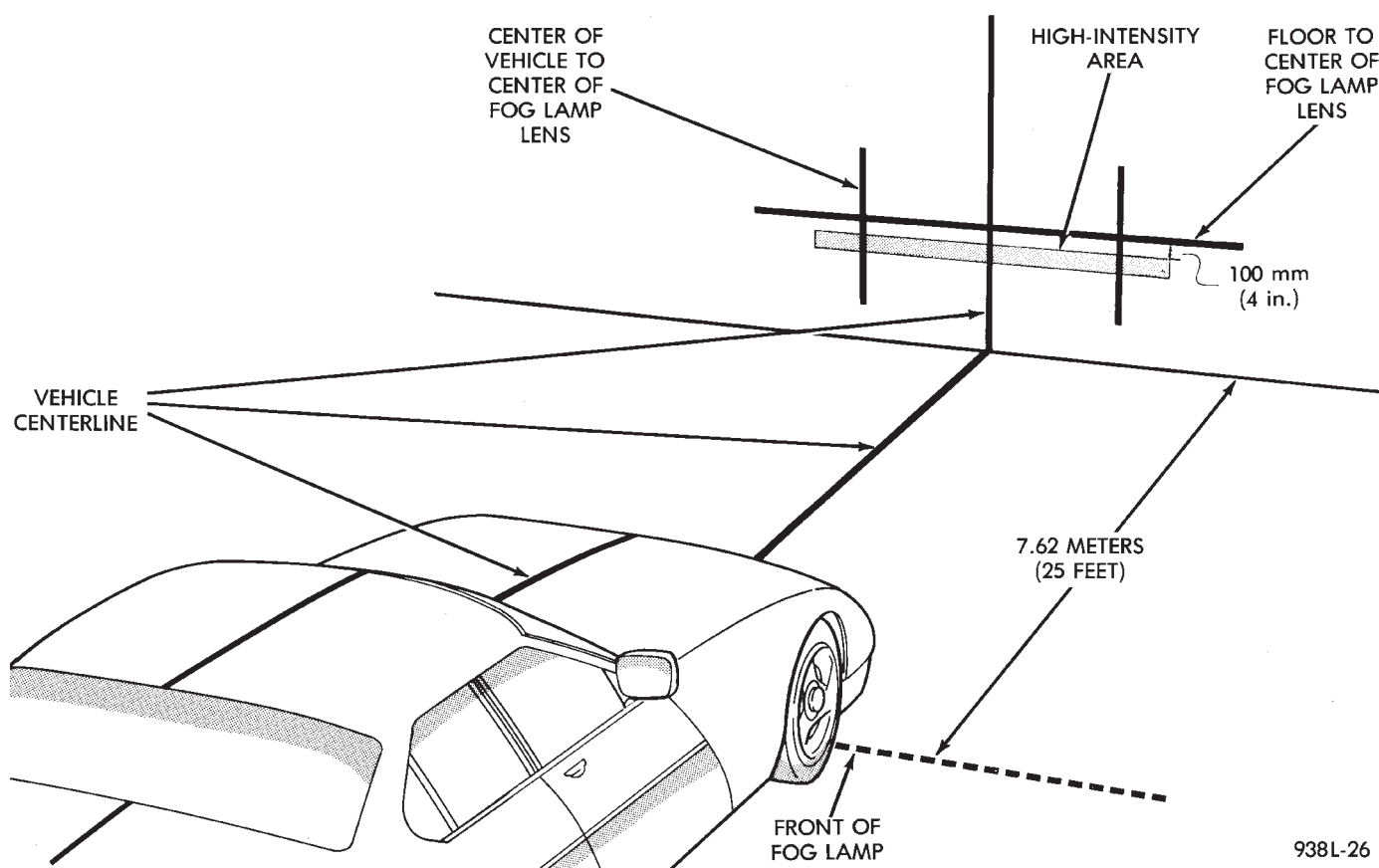
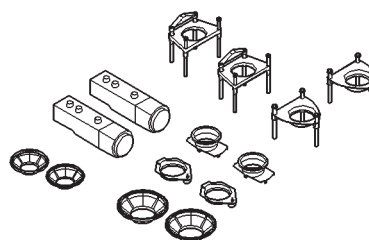
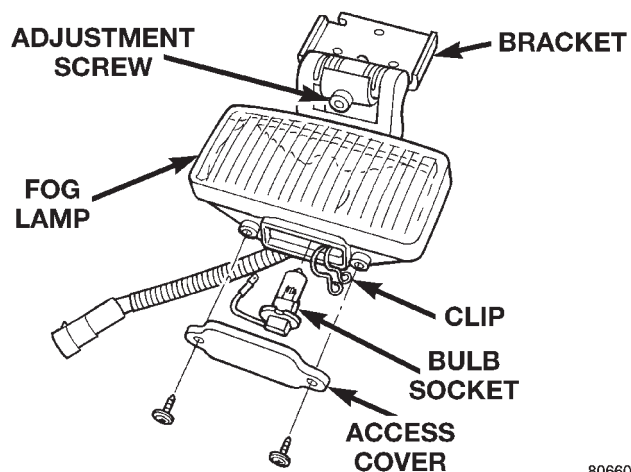


Fig. 3 Fog Lamp Alignment—Typical

SPECIAL TOOLS

SPECIAL TOOLS—HEADLAMP ALIGNMENT



Headlamp Aiming Kit C-4466-A

Fig. 4 Fog Lamp

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LAMP BULB SERVICE

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REMOVAL AND INSTALLATION

HEADLAMP BULB

REMOVAL

- (1) Lift hood to access lamps.
- If clearance is minimal behind the headlamp assembly, refer to the Headlamp Removal/Installation procedure for bulb replacement.
- (2) Reach into engine compartment and locate lock ring supporting the headlamp bulb assembly.
- (3) Rotate the lock ring 1/8 turn counterclockwise (Fig. 1).
- (4) Pull the bulb straight out from the housing.

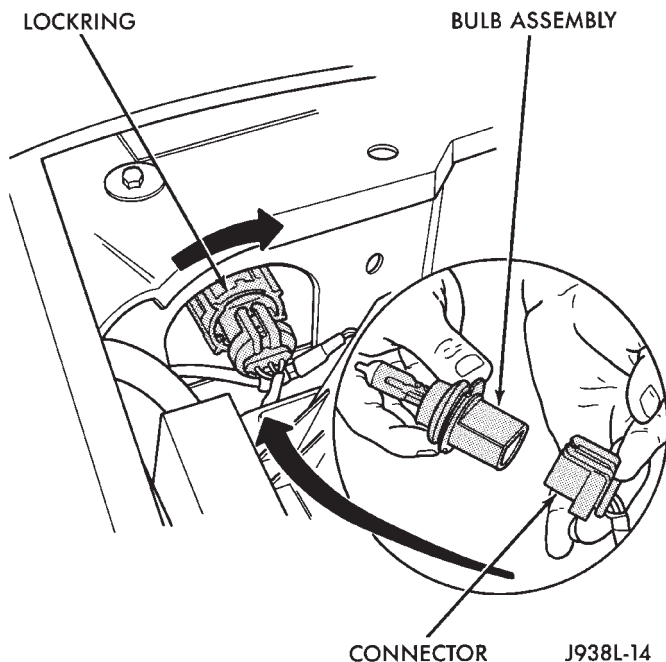


Fig. 1 Headlamp Bulb

INSTALLATION

CAUTION: Do not touch the bulb glass with fingers or other oily surfaces. Reduced bulb life will result.

- (1) Install new bulb.
- (2) Position bulb assembly in the lamp housing and turning the lock ring 1/8 turn clockwise to secure.

FOG LAMP BULB

REMOVE

- (1) Remove the screws attaching the access cover to the bottom of the fog lamp (Fig. 2).
- (2) Remove spring clip securing bulb to fog lamp.
- (3) Disconnect wire connectors at bulb.
- (4) Remove bulb element from fog lamp.

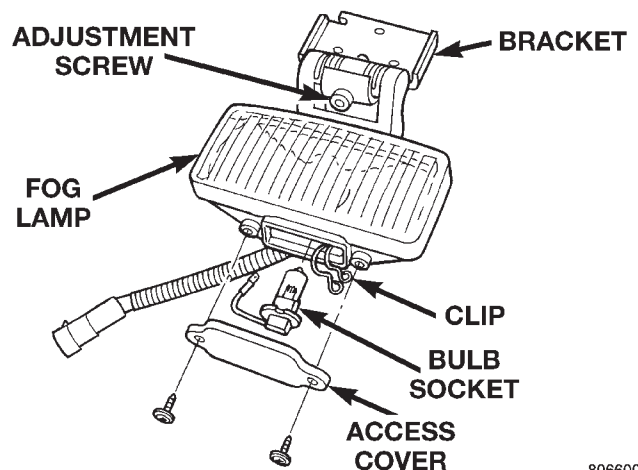


Fig. 2 Fog Lamp Bulb

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REMOVAL AND INSTALLATION (Continued)

INSTALLATION

CAUTION: Do not touch the bulb glass with fingers or other oily surfaces. Reduced bulb life will result.

- (1) Position bulb element in fog lamp.
- (2) Connect wire connectors at bulb.
- (3) Install spring clip securing bulb to fog lamp.
- (4) Install screws attaching the access cover to the bottom of the fog lamp (Fig. 2).

PARKING LAMP BULB

REMOVAL

- (1) Remove lamp from vehicle
- (2) Rotate socket counterclockwise and pull socket from lamp.
- (3) Pull bulb to from socket.

INSTALLATION

- (1) Position bulb in socket and push into place.
- (2) Position socket in lamp and rotate socket clockwise.
- (3) Install the lamp.

TURN SIGNAL AND SIDE MARKER LAMP BULB

REMOVAL

- (1) Remove parking lamp.
- (2) Remove turn signal/side marker lamp.
- (3) Rotate turn signal bulb socket counterclockwise, press in on bulb and rotate 1/4 turn to remove.
- (4) Rotate sidemarker bulb socket counterclockwise grasp and pull from lamp.

INSTALLATION

- (1) Install side marker lamp bulb.
- (2) Install turn signal lamp bulb.
- (3) Install turn signal/side marker lamp.
- (4) Install parking lamp.

TAIL, STOP, TURN SIGNAL, BACK-UP AND SIDE MARKER LAMP BULBS

The stop, turn signal, back-up and rear side marker lamp bulbs are incorporated into the tail lamp.

REMOVAL

- (1) Remove tail lamp.
- (2) Grasp bulb socket and rotate counterclockwise. Separate socket from lamp.
- (3) Rotate bulb in the socket counterclockwise and remove bulb from socket (Fig. 3).

INSTALLATION

- (1) Position bulb in socket and rotate clockwise.

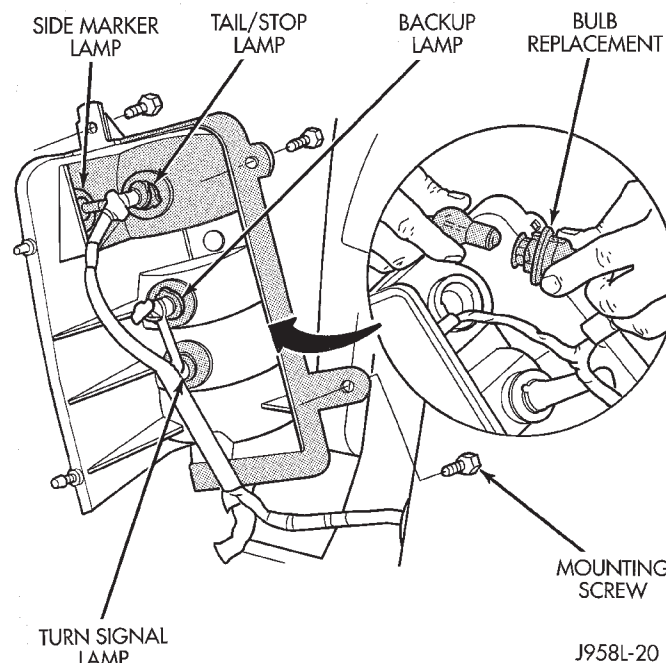


Fig. 3 Tail Lamp Bulbs

- (2) Position bulb socket in lamp and rotate clockwise.
- (3) Install lamp.

LICENSE PLATE LAMP BULB

REMOVAL

- (1) Remove screws attaching license plate lamp to license plate housing.
- (2) Separate lamp from housing.
- (3) Grasp bulb and pull from bulb socket.

INSTALLATION

- (1) Position bulb in socket and press into place.
- (2) Position license plate lamp in license plate housing.
- (3) Install screws attaching license plate lamp to license plate housing.

CENTER HIGH MOUNTED STOP LAMP (CHMSL) BULB

REMOVAL

- (1) Remove CHMSL from liftgate.
- (2) Turn bulb socket 1/4 turn counterclockwise.
- (3) Separate socket from lamp.
- (4) Grasp bulb and pull from socket.

INSTALLATION

- (1) Position bulb in socket and press into place.
- (2) Position socket in lamp.
- (3) Turn bulb socket 1/4 turn clockwise.
- (4) Install CHMSL.

REMOVAL AND INSTALLATION (Continued)

UNDERHOOD LAMP BULB**REMOVAL**

- (1) Disconnect the wire harness connector from the underhood lamp.
- (2) Rotate the bulb counterclockwise. Remove it from the lamp socket.

INSTALLATION

- (1) Insert the replacement bulb in the lamp base socket. Rotate it clockwise.
- (2) Connect the wire harness connector to the lamp.

VISOR VANITY LAMP BULB**REMOVAL**

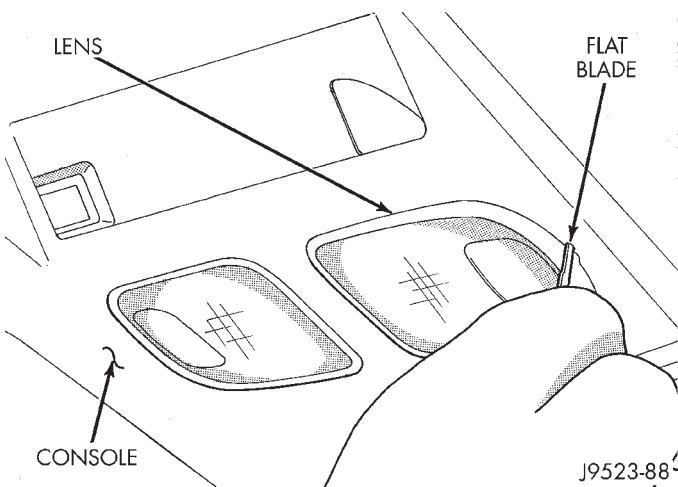
- (1) Using a small flat blade, carefully pry each corner of lens outward from lamp.
- (2) Separate lens from lamp.
- (3) Grasp bulb and pull outward.

INSTALLATION

- (1) Position bulb in socket and push into place.
- (2) Position lens on lamp and snap into place.

OVERHEAD CONSOLE READING LAMP BULB**REMOVAL**

- (1) Insert a flat blade screwdriver in slot at front of lens (Fig. 4).
- (2) Rotate the screwdriver until lens snaps out of the housing.
- (3) Remove lens from housing.
- (4) Remove bulb from terminals.

**Fig. 4 Overhead Console Reading Lamp Bulb****INSTALLATION**

- (1) Insert bulb into reading lamp terminals.
- (2) Replace lens by holding lens level and pushing rearward into housing.
- (3) Push lens up to snap into housing.

DOME LAMP BULB**REMOVAL**

- (1) Insert a flat blade screwdriver in slot at front of lens.
- (2) Rotate the screwdriver until lens snaps out of the housing.
- (3) Remove lens from housing.
- (4) Remove bulb from socket.

INSTALLATION

- (1) Insert bulb into reading lamp terminals.
- (2) Replace lens by holding lens level and pushing rearward into housing.
- (3) Push lens up to snap into housing.

READING LAMP BULB**REMOVAL**

- (1) Insert a flat blade screwdriver in slot at front of lens.
- (2) Rotate the screwdriver until lens snaps out of the housing.
- (3) Remove lens from housing.
- (4) Remove bulb from terminals.

INSTALLATION

- (1) Insert bulb into reading lamp terminals.
- (2) Replace lens by holding lens level and pushing rearward into housing.
- (3) Push lens up to snap into housing.

DOOR COURTESY LAMP BULB**REMOVAL**

- (1) Remove door trim panel. Refer to Group 23, Body Components for service procedure.
- (2) Remove bulb socket from lamp.
- (3) Pull bulb from socket.

INSTALLATION

- (1) Position bulb in socket and press into place.
- (2) Install bulb socket in lamp.
- (3) Install door trim panel.

REMOVAL AND INSTALLATION (Continued)**CARGO LAMP BULB**

(4) Remove bulb from bulb socket.

REMOVAL

- (1) Insert a flat blade screwdriver in slots provided at lower portion of lens.
- (2) Rotate screwdriver upward until lens snaps out of housing.
- (3) Remove lens from housing.

INSTALLATION

- (1) Position bulb in socket and press into place.
- (2) Insert upper tabs of lens into lens housing.
- (3) Snap lower portion of lens into slots at lens housing.

LAMP SERVICE

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REMOVAL AND INSTALLATION

HEADLAMP

REMOVAL

- (1) Grasp lower edge of headlamp lens and pull straight back (away) from grille opening reinforcement (GOR). Disengage lower adjuster pivots from lens assembly.
- (2) Grasp upper edge of headlamp lens. Pull straight back (away) from grille opening reinforcement (GOR). Disengage upper adjuster pivot from lens assembly.
- (3) Rotate bulb lock ring counterclockwise, and remove ring and bulb from lens.

INSTALLATION

- (1) Replace by seating the assembly in the lamp housing and turning the lock ring 1/8 turn clockwise to secure.
- (2) Align upper adjust pivot into headlamp opening and snap into place.
- (3) Snap lower adjuster pivots into place.

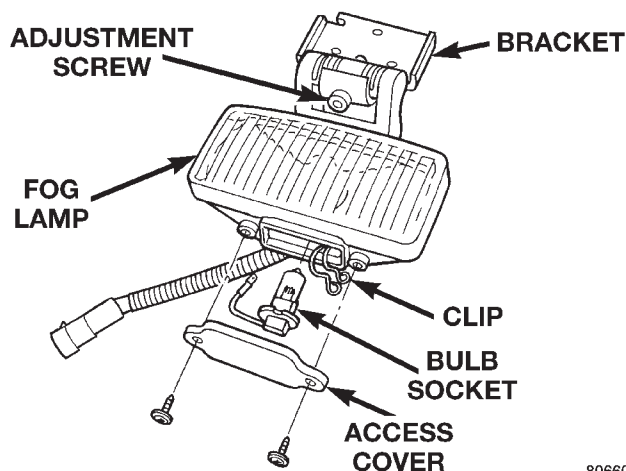
FOG LAMP

REMOVAL

- (1) Remove adjustment screw (Fig. 1).
- (2) Disengage fog lamp electrical connector.
- (3) Separate fog lamp from vehicle.

INSTALLATION

- (1) Position fog lamp at vehicle.
- (2) Engage fog lamp electrical connector.
- (3) Install adjustment screw (Fig. 1).



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Fig. 1 Fog Lamp

- (4) Align fog lamp.

PARKING LAMP

REMOVAL

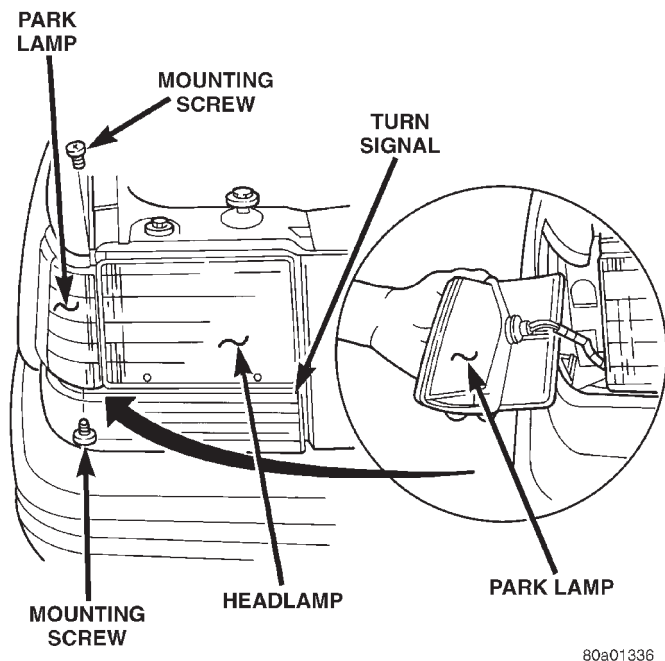
The parking lamp is mounted on the side of the GOR next to headlamp assembly.

- (1) Open hood.
- (2) Remove screws which hold the parking lamp in position (Fig. 2).
- (3) Rotate lamp socket counterclockwise and pull socket from lamp.

INSTALLATION

- (1) Position lamp socket in lamp and rotate clockwise.
- (2) Position lamp in place and install the screws.

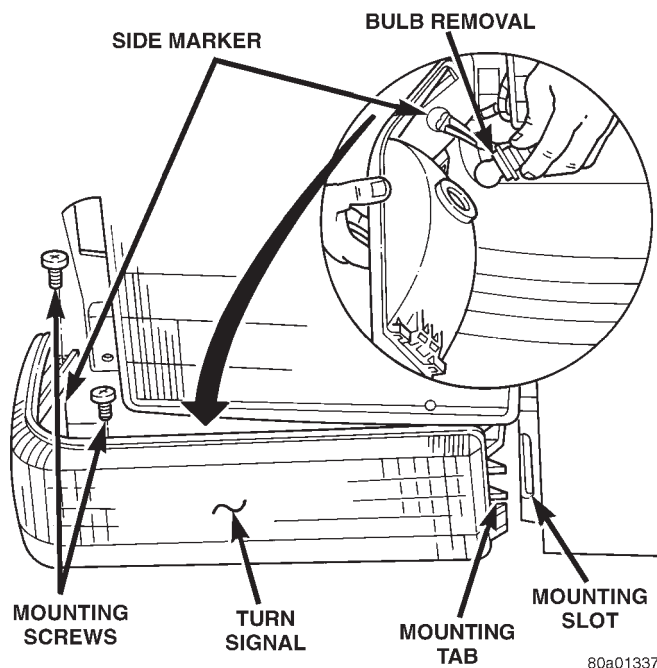
REMOVAL AND INSTALLATION (Continued)



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Fig. 2 Park Lamp**TURN SIGNAL AND SIDE MARKER LAMP****REMOVAL**

- (1) Remove parking lamp.
- (2) Remove the screws and slide lamp outboard to expose the socket (Fig. 3).
- (3) Remove turn signal socket from lamp.
- (4) Remove sidemarker socket from lamp.
- (5) Separate lamp from vehicle.



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Fig. 3 Turn Signal And Side Marker Lamp**INSTALLATION**

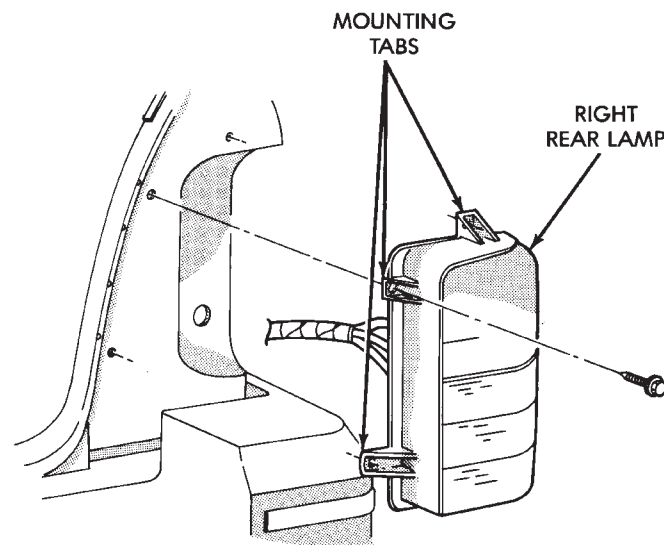
- (1) Install turn signal lamp socket.
- (2) Install side marker lamp socket.
- (3) Slide lamp into slot provided on inboard side of headlamp assembly.
- (4) Install screws.
- (5) Install parking lamp.

TAIL, STOP, TURN SIGNAL, BACK-UP AND SIDE MARKER LAMP

The stop, turn signal, back-up and rear side marker lamps are incorporated into the tail lamp.

REMOVAL

- (1) Remove screws attaching lamp to body (Fig. 4).
- (2) Remove bulb sockets from lamp.
- (3) Separate lamp from vehicle.



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Fig. 4 Tail Lamp**INSTALLATION**

- (1) Position lamp at vehicle and install bulb sockets.
- (2) Position lamp on vehicle and install screws.

LICENSE PLATE LAMP**REMOVAL**

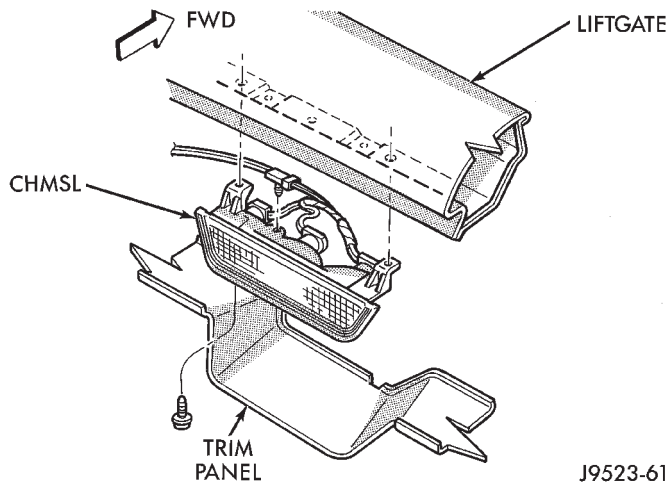
- (1) Remove screws attaching license plate lamp to license plate housing.
- (2) Separate lamp from housing.
- (3) Grip bulb socket, rotate counterclockwise and separate bulb socket from license plate lamp.

REMOVAL AND INSTALLATION (Continued)**INSTALLATION**

- (1) Position bulb socket in license plate lamp and turn clockwise.
- (2) Position license plate lamp in license plate housing.
- (3) Install screws attaching license plate lamp to license plate housing.

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

- (1) Raise liftgate.
- (2) Remove upper liftgate trim panel.
- (3) Remove CHMSL lamp mounting screws (Fig. 5).
- (4) Remove CHMSL lamp.
- (5) Turn bulb socket 1/4 turn counterclockwise.
- (6) Separate socket from lamp.

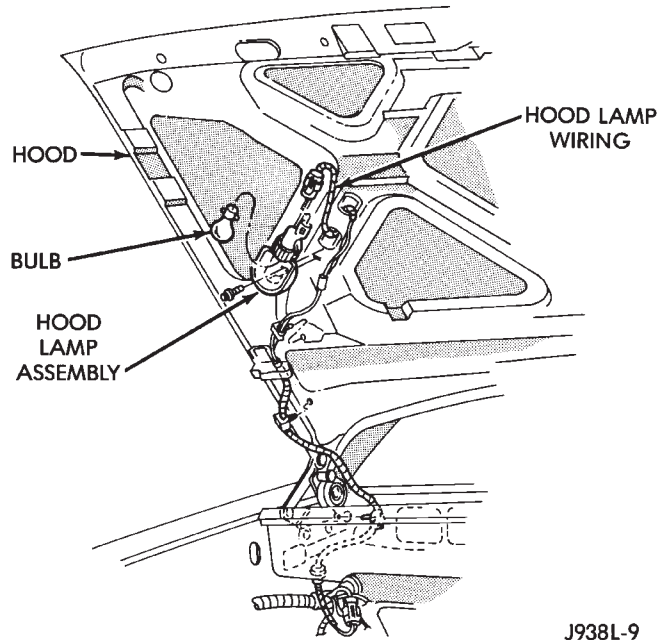
**Fig. 5 Center High Mounted Stop Lamp****INSTALLATION**

- (1) Position socket in lamp.
- (2) Turn bulb socket 1/4 turn clockwise.
- (3) Position CHMSL lamp in place and install mounting screws.
- (4) Install upper liftgate trim panel.

UNDERHOOD LAMP**REMOVAL**

When equipped, the underhood lamp is installed on the hood right, rear panel. The lamp is on when hood is opened by way of liquid ON/OFF switch that is integral with lamp base.

- (1) Open hood.
- (2) Remove screw attaching lamp support bracket to hood (Fig. 6).
- (3) Disengage connector for underhood lamp.
- (4) Separate lamp from vehicle.

**Fig. 6 Underhood Lamp****INSTALLATION**

- (1) Engage connector for underhood lamp.
- (2) Position lamp on hood and install screw.

VISOR VANITY LAMP**REMOVAL**

- (1) Fold down sunvisor.
- (2) Starting at the base of the lamp assembly and working right-to-left, use a small flat blade, carefully pry lamp from visor.
- (3) Disconnect visor lamp wire connector and remove from vehicle.

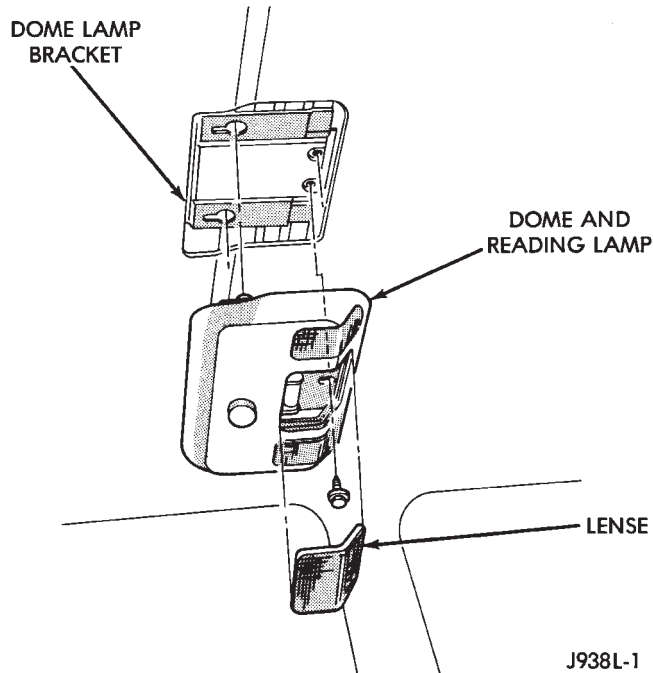
INSTALLATION

- (1) Position visor lamp at visor and connect visor lamp wire connector.
- (2) Position visor lamp in visor and press into place.

DOME/READING LAMP**REMOVAL**

- (1) Insert a flat blade screwdriver in slot at the center of the lamp housing. Rotate screwdriver upward and unsnap dome lamp lens.
- (2) Pull lens downward. Remove it from lamp housing.
- (3) Remove the lamp housing retaining screws (Fig. 7).
- (4) Push housing forward and release housing from bracket.
- (5) Disconnect wire harness connectors.
- (6) Remove lamp housing from headliner cavity.

REMOVAL AND INSTALLATION (Continued)

**Fig. 7 Dome/Reading Lamp****INSTALLATION**

- (1) Position dome/reading lamp housing at headliner cavity.
- (2) Connect wire harness connectors.
- (3) Locate rear pods of the lamp in the slots of the dome lamp bracket. Push lamp housing up and to rear.
- (4) Install the lamp housing screws.
- (5) Position dome lamp lens at lamp housing. Snap lens into housing.

DOOR COURTESY LAMP**REMOVAL**

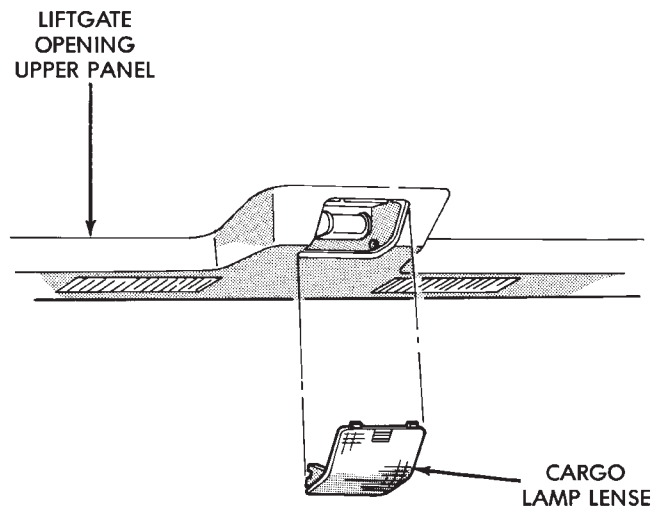
- (1) Remove door trim panel. Refer to Group 23, Body Components for service procedure.
- (2) Remove bulb socket from lamp.
- (3) Depress lamp locking tabs and separate lamp from trim panel.

INSTALLATION

- (1) Position lamp in trim panel and snap into place.
- (2) Install bulb socket in lamp.
- (3) Install door trim panel.

CARGO LAMP**REMOVAL**

- (1) Insert a flat blade screwdriver in slots provided at lower portion of lens.
- (2) Rotate screwdriver upward until lens snaps out of housing.
- (3) Remove lens from housing (Fig. 8).
- (4) Remove screws attaching liftgate opening upper trim panel/cargo lamp to liftgate opening roof panel.
- (5) Separate trim panel from roof panel.
- (6) Disengage electrical connector for cargo lamp.

**Fig. 8 Cargo Lamp****INSTALLATION**

- (1) Position trim panel/cargo lamp at liftgate opening.
- (2) Engage electrical connector for cargo lamp.
- (3) Install screws attaching liftgate opening upper trim panel/cargo lamp to liftgate opening roof panel.
- (4) Position lens on cargo lamp and snap into place.

LAMP SYSTEMS

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GENERAL INFORMATION

DAYTIME RUNNING LAMP SYSTEM

ZJ vehicles built for use in Canada are equipped with a Daytime Running Lamp System (DRL). The DRL system operates the headlamp at 50% illumination with the headlamp switch OFF, park brake released and the ignition in the RUN position. The DRL system is controlled by the Daytime Running Lamp Module located in the engine compartment attached to the Power Distribution Center (PDC) bracket. The DRL module overrides the headlamp switch when the headlamps are turned OFF. The headlamps operate normally when the headlamps are turned ON.

LAMP OUTAGE MODULE

The Lamp Outage Module will indicate a tail lamp, stop lamp, or a CHMSL bulb failure. A display will illuminate in the Vehicle Information Center (VIC), displaying the failure.

Details for the VIC can be found in Group 8E, Vehicle Information Center. For circuit information, refer to Group 8W, Wiring Diagrams.

The Lamp Outage Module is located behind the left quarter trim panel.

Connecting trailer lights to the body harness at the rear of the vehicle can cause damage to the lamp outage module. The lamp outage module is designed to handle a 5 amp current load. This is adequate for the operation of the vehicles lighting system. When additional lights are added to the system such as trailer lights, the 5 amp limit can be exceeded. This can cause failure of the lamp outage module.

If trailer towing is required and the vehicle is not equipped with a trailer tow package, the MOPAR accessory trailer towing harnesses are the only approved method to provide additional trailer lights. These harnesses are designed to provide current to the trailer lights but bypass the lamp outage module.

AUTO HEADLAMP SENSOR

The auto headlamp sensor is the key sensor for the auto headlamp system. The sensor needs real sun-

light to properly register the light level. When auto headlamps are enabled indoors, the headlamps may be turned on. The sensor is located in the center of the defroster grille at the base of the windshield.

REMOVAL AND INSTALLATION

DAYTIME RUNNING LIGHT MODULE

REMOVAL

- (1) Open hood.
- (2) Disconnect electrical connector from module.
- (3) Remove screws holding module to PDC bracket (Fig. 1).
- (4) Separate module from bracket.

POWER DISTRIBUTION CENTER

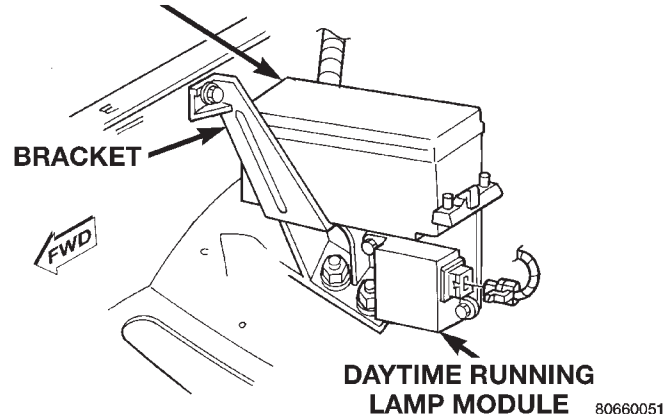


Fig. 1 Daytime Running Lamp Module

INSTALLATION

- (1) Reverse the removal procedures.

AUTO HEADLAMP SENSOR

REMOVAL

- (1) Using a trim stick, gently pry defroster bezel out of dash pad.
- (2) Unplug auto headlamp sensor connector.
- (3) Snap out sensor from bezel.

REMOVAL AND INSTALLATION (Continued)

INSTALLATION

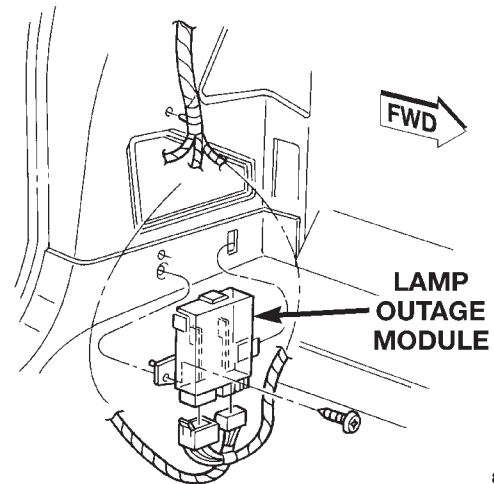
- (1) Reverse the removal procedure.

LAMP OUTAGE MODULE*REMOVAL*

- (1) Disconnect battery negative cable.
- (2) Remove spare tire from carrier.
- (3) Remove access door.
- (4) Remove screw holding module to inner quarter panel (Fig. 2).
- (5) Disconnect wiring connectors at module.
- (6) Separate lamp outage module from vehicle.

INSTALLATION

- (1) Connect wiring connectors at module.
- (2) Install screw holding module to inner quarter panel.
- (3) Install access door.
- (4) Install spare tire.



8066004d

Fig. 2 Lamp Outage Module

- (5) Connect battery negative cable.

BULB APPLICATION

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GENERAL INFORMATION

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

SPECIFICATIONS

EXTERIOR LAMPS

LAMP	BULB
Back-up.	.1156
Center High Mounted Stoplamp.	.921
Fog lamp	H3
Front Turn Signal	.1295NA
Front Side Marker.	.194NA
Headlamp	.9004
License Plate	.168
Tail/Stop	.2057
Rear Turn Signal	.1156
Underhood Lamp	.105

INTERIOR LAMPS

Service procedures for most of the lamps in the instrument panel, are located in Group 8E. Some

components have lamps that can only be serviced by an Authorized Service Center (ASC) after the component is removed from the vehicle. Contact local dealer for location of nearest ASC.

LAMP	BULB
A/C Heater	.4720843
Ash Receiver.	.37
Cigarette Lighter	.53
Climate Control	.74
Console Floor Shifter	.194
Dome/Reading	.561
Door Courtesy.	.168
Front Reading	.906
Glove Compartment	.194
Hazard Lamp	.74
Heater	.194
Overhead Console.	.212
Radio.	ASC
Rear Cargo	.212
Rocker Switch.	.37
Shift Lamp	.74
Transfer Case Shifter	.194
Theft Alarm	.74
Under Panel Courtesy	.89