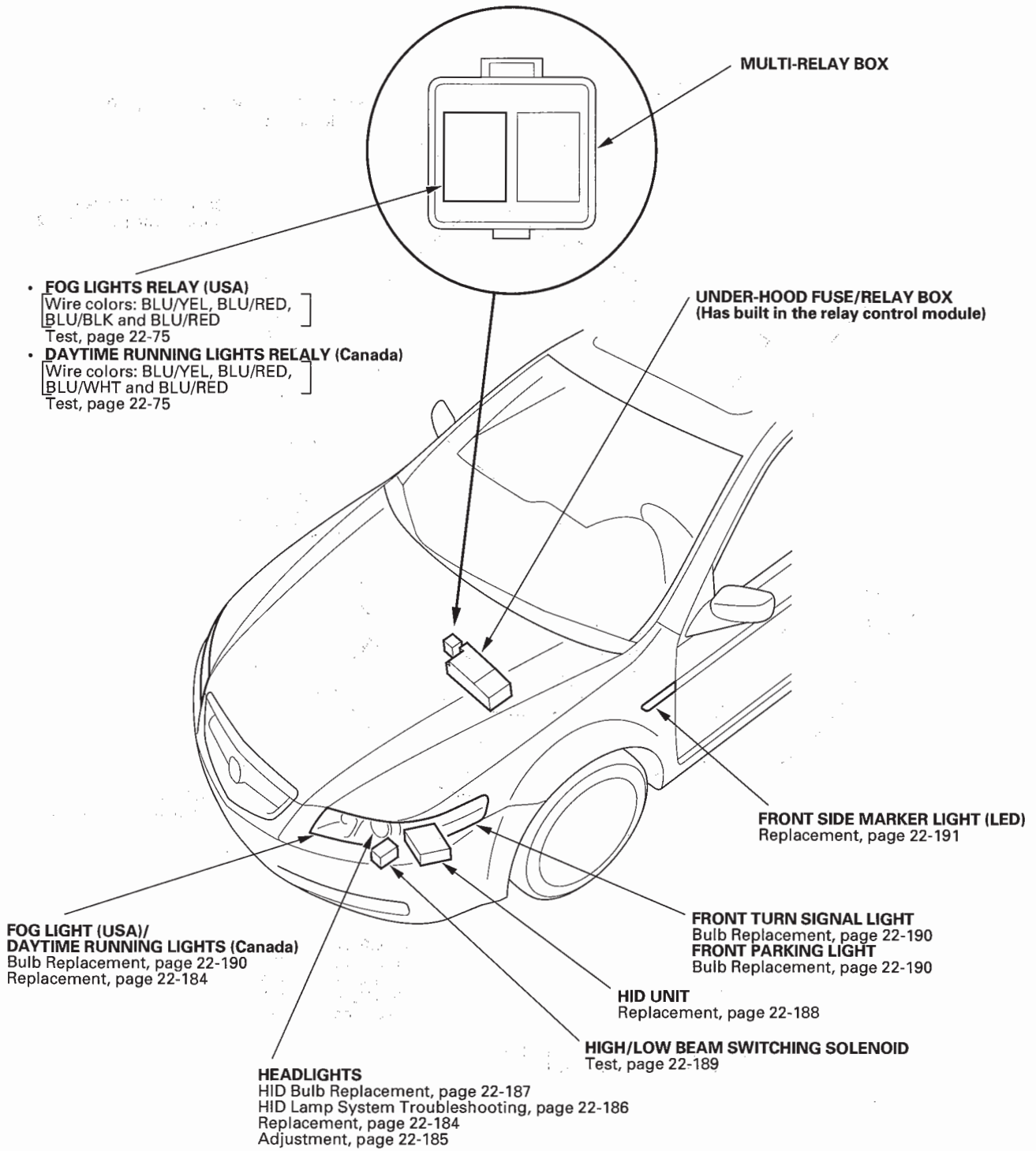


Exterior Lights



Component Location Index



(cont'd)

Bumpers

Front Bumper Removal/Installation

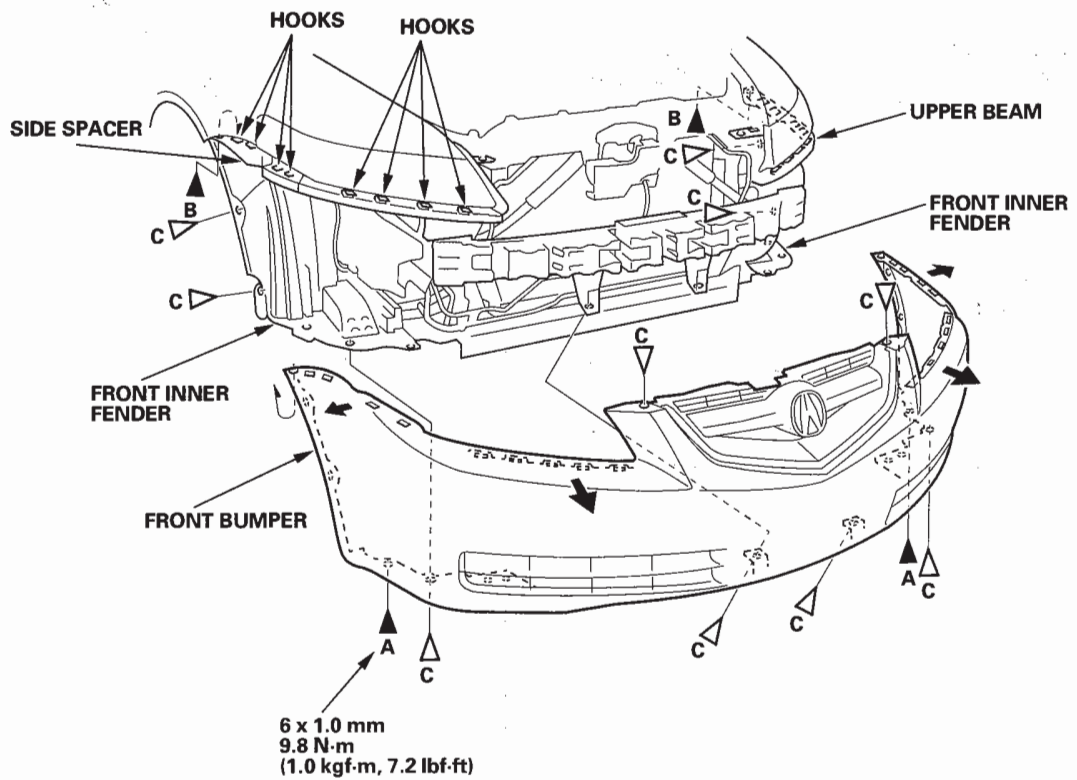
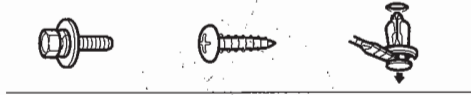
NOTE:

- Have an assistant help you when removing and installing the front bumper.
- Take care not to scratch the front bumper and body.
- Put on gloves to protect your hands.

1. Remove the front bulkhead cover (see page 20-130).
2. Remove the front strakes from under of the front bumper (see page 20-141).
3. Remove the front bumper as shown.

Fastener Locations

A ▶ : Bolt, 2 B ▶ : Screw, 2 C ▶ : Clip, 10

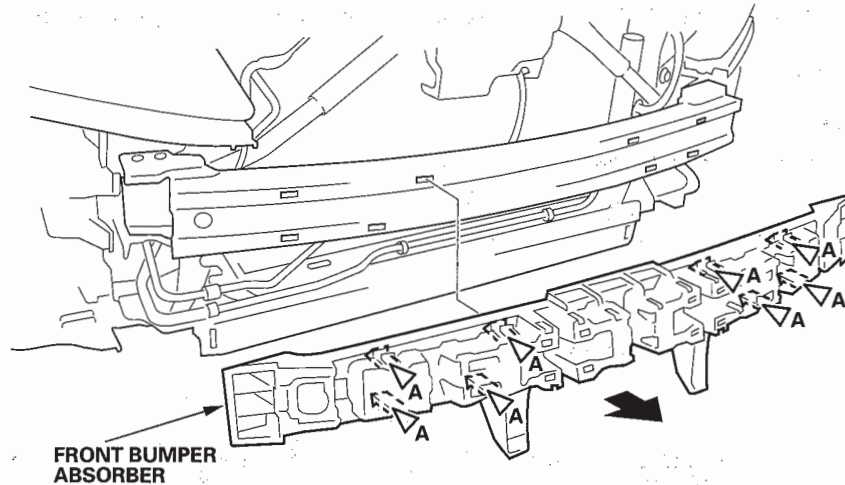
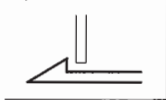




4. Remove the front bumper absorber as shown.

Fastener Locations

A ▷ : Hook, 8



5. Install the bumper in the reverse order of removal, and note these items:

- Make sure the front bumper engages the hooks of the side spacers and upper beams on both sides securely.
- Replace any damaged clips.
- Push the clips and hooks into place securely.

Relays



Power Relay Test

Use this chart to identify the type of relay, then do the test listed for it.

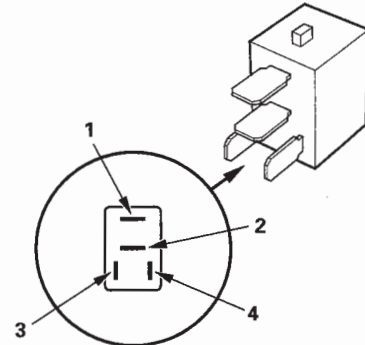
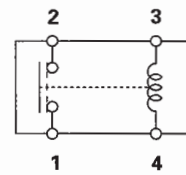
NOTE: For the turn signal/hazard relay input test (see page 22-198).

| Relay | Test |
|---|--------------------|
| A/C compressor clutch relay | Normally-open type |
| Accessory power socket relay | |
| Blower motor relay | |
| Condenser fan relay | |
| Ignition coil relay | |
| Air fuel ratio sensor relay | |
| PGM-FI main relay 1, 2 | |
| Power window relay | |
| Radiator fan relay | |
| Rear window defogger relay | |
| Starter cut relay | |
| Seat heater relay | |
| Throttle actuator control relay | |
| Fog lights/Daytime running lights relay | |
| Shift lock relay | |
| Fan control relay | |

Normally-open type

Check for continuity between the terminals.

- There should be continuity between the No. 1 and No. 2 terminals when power and ground are connected to the No. 3 and No. 4 terminals.
- There should be no continuity between the No. 1 and No. 2 terminals when power is disconnected.



(cont'd)

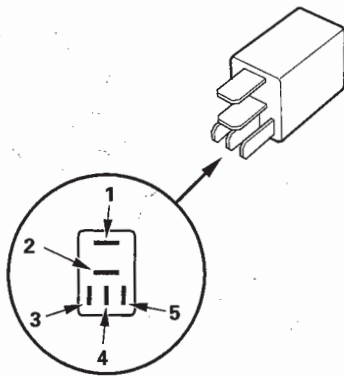
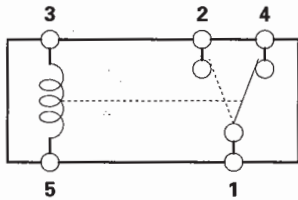
Relays

Power Relay Test (cont'd)

Five-terminal type B

Check for continuity between the terminals.

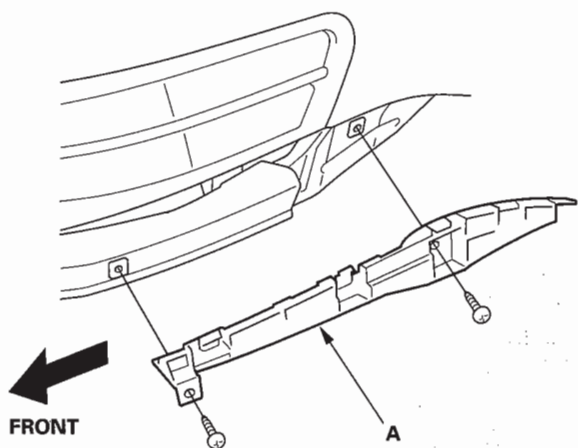
- There should be continuity between the No. 1 and No. 2 terminals when power and ground are connected to the No. 3 and No. 5 terminals.
- There should be continuity between the No. 1 and No. 4 terminals when power is disconnected.



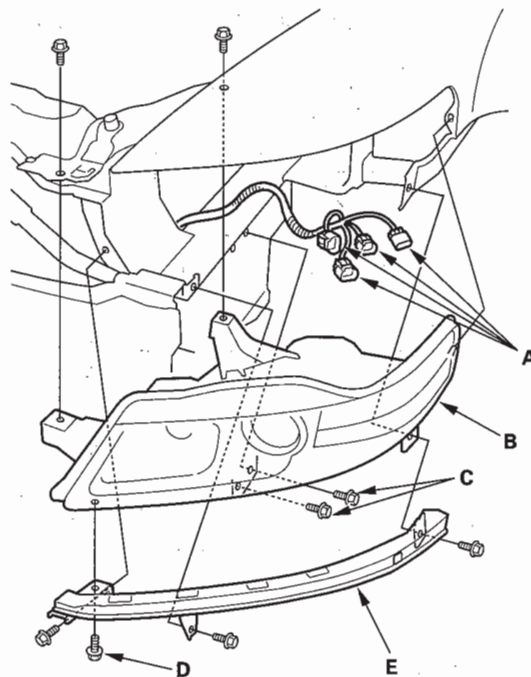
Exterior Lights

Headlight Replacement

1. Remove the front bumper (see page 20-118).
2. Remove the two screws and front bumper spacer (A).



3. Remove the connectors (A) from the headlight assembly (B).



4. Remove the seven mounting bolts and the headlight. For the right headlight assembly, remove the washer reservoir tank (see page 22-252) to access mounting bolts (C).
5. Remove the bolt (D) and the corner upper beam (E) from the headlight.
6. Install the headlight in the reverse order of removal.
7. After replacement, adjust the headlights to local requirement.



Headlight Adjustment

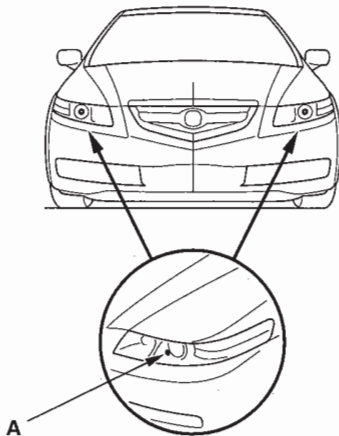
⚠ CAUTION

Headlights become very hot during use; do not touch them or any attaching hardware immediately after they have been turned off.

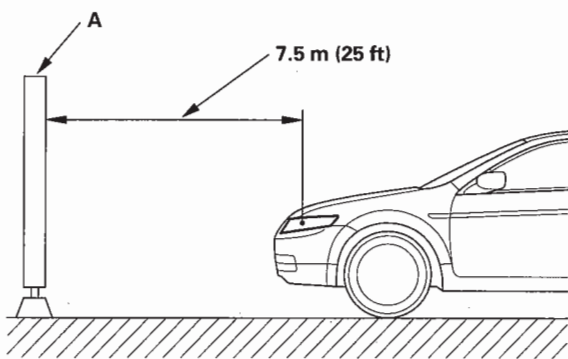
Before adjusting the headlights:

- Park the vehicle on a level surface.
- Make sure the tire pressures are correct.
- Have the driver or someone who weights the same sit in the driver's seat.

1. Clean the outer lens so that you can see the center (A) of the headlights.



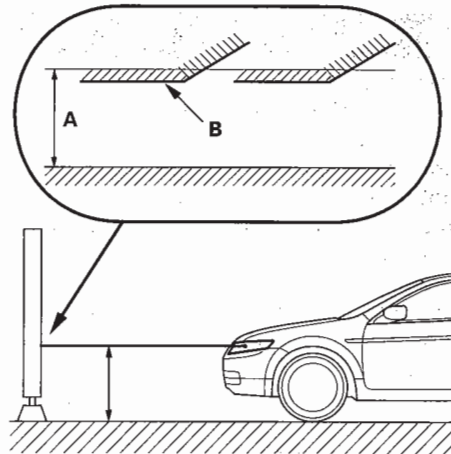
2. Park the vehicle 25 ft (7.5 m) away from a wall or a screen (A).



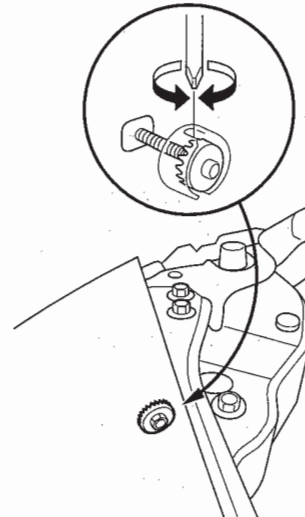
3. Turn the low beams on.
4. Determine if the headlights are aimed properly.

Vertical adjustment:

Measure the height of the headlights (A). The lights should reflect 52 mm (2.1 in.) below headlight height (B).



5. If necessary, open the hood and adjust the headlights to local requirements by turning the vertical adjuster.



Exterior Lights

HID Lamp System Troubleshooting

⚠ WARNING

A transient high tension (25,000 V) occurs at the bulb sockets or the high intensity discharge (HID) lamps when the combination light switch is turned ON, it may cause serious electrical shock or electrocution if you do not observe the cautions below.

⚠ CAUTION

- Never turn on the combination light switch before fitting the HID bulbs to their bulb sockets and completing the reassembly of the headlight assembly.
- Do not service the headlights assembly in wet conditions, such as rain or snow, near a sprinkler system, or when your hands are wet to prevent electrocution.
- Do not touch the surface of the HID bulbs with your bare hands and do not stain it with any oils and fats.
- Do not disassemble the inverter unit and the ignitor unit.
- Do not turn on the HID bulb by using a power source other than the battery mounted on your vehicle.

1. Check the No. 1 (15A) and No. 6 (15A) fuses in the under-hood fuse/relay box.

Are the fuses OK?

YES—Go to step 2.

NO—Replace the fuse(s), and recheck. ■

2. Make sure you have the anti-theft codes for the radio and the navigation system, then write down the channels for the XM radio presets. Make sure the ignition switch is OFF.

3. Turn the combination light switch OFF.

4. Disconnect the battery negative cable, then disconnect the positive cable.

5. Remove the bulb socket from the HID bulb (see page 22-187).

6. Substitute a known-good HID bulb reassemble and recheck.

Does the headlight come on?

YES—Replace the original HID bulb. ■

NO—Go to step 7.

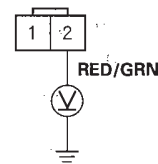
7. Reconnect the battery positive cable and negative cable.

8. Disconnect the 2P connector from the HID unit.

9. Turn the combination light switch ON.

10. Measure voltage between the No. 2 terminal of the HID unit 2P connector and body ground.

HID UNIT 2P CONNECTOR



Wire side of female terminals

Is there battery voltage?

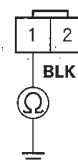
YES—Go to step 11.

NO—Repair open in the wire between the under-hood fuse/relay box and the HID unit. ■

11. Turn the combination light switch OFF.

12. Check for continuity between the No. 1 terminal of the HID unit 2P connector and body ground.

HID UNIT 2P CONNECTOR



Wire side of female terminals

Is there continuity?

YES—Substitute a known-good HID, and recheck. If the symptom/indication goes away, replace the original inverter unit. ■

NO—Repair open in the wire between the HID unit and body ground. If the wire is OK, check for poor ground at G201 or G301. ■

NOTE: Enter the anti-theft codes for the radio and the navigation system, then enter the customer's XM radio channel presets.



HID Bulb Replacement

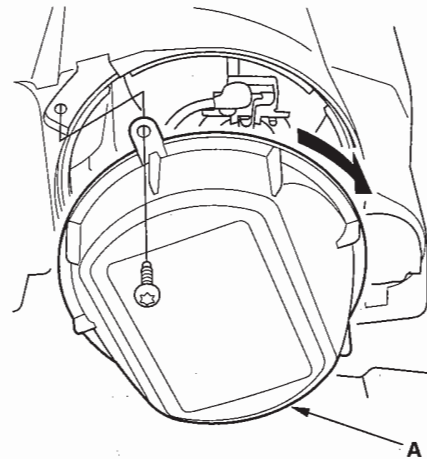
⚠ WARNING

A transient high tension (25,000 V) occurs at the bulb sockets of the high intensity discharge (HID) lamps when the combination light switch is turned ON, it may cause serious electrical shock or electrocution if you do not observe the cautions below.

⚠ CAUTION

- Never turn on the combination light switch before fitting the HID bulbs to their bulb sockets and completing the reassembly of the headlight assembly.
- Do not service the headlights assembly in wet conditions, such as rain or snow, near a sprinkler system, or when your hands are wet to prevent electrocution.
- Do not touch the surface of the HID bulbs with your bare hands and do not stain it with any oils and fats.
- Do not disassemble the inverter unit and the ignitor unit.
- Do not turn on the HID bulb by using a power source other than the battery mounted on your vehicle.

1. Make sure you have the anti-theft codes for the radio and the navigation system, then write down the XM radio channel preset. Make sure the ignition switch is OFF.
2. Turn the combination light switch OFF.
3. Disconnect the battery negative cable, then disconnect the positive cable.
4. Remove the headlight assembly (see page 22-184).
5. Remove the Torx bolt using a tamper-proof Torx T20 bit.



6. Turn the cover (A) 45° counterclockwise to remove it from the headlight assembly.

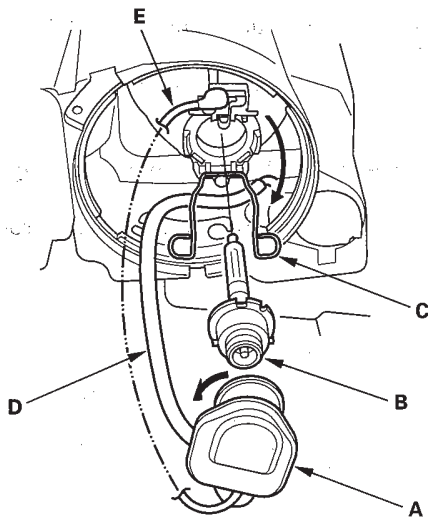
(cont'd)

Exterior Lights

HID Bulb Replacement (cont'd)

7. Turn the socket (A) 45° counterclockwise to remove it from the bulb (B).

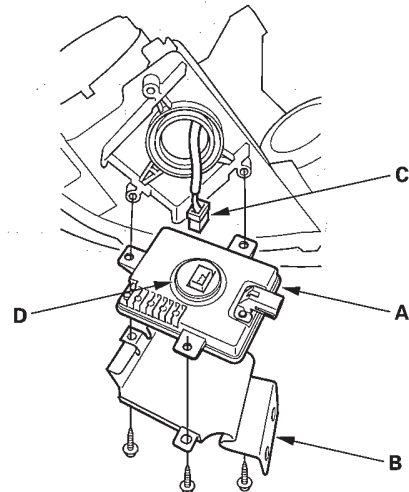
Headlight: 35 W



8. Pull the retaining spring (C) away from the bulb then remove the bulb.
9. Make sure the bulb harness (D) is routed correctly so it does not contact the reflector (E).
10. Install the new bulb in the reverse order of removal. Make sure the notches in the bulb align with the tabs in the headlight.
11. After reconnecting the battery, enter the anti-theft codes for the radio and the navigation system, then enter the customer's XM radio channel presets.

HID Unit Replacement

1. Make sure you have the anti-theft code for the radio and the navigation system, then write down the channels for the XM radio presets. Make sure the ignition switch is OFF.
2. Turn the combination light switch OFF.
3. Disconnect the battery negative cable, then disconnect the positive cable.
4. Remove the headlight assembly (see page 22-184).
5. Remove the bulb socket from the HID bulb (see page 22-187).
6. Remove the three mounting screws, the HID unit (A) and HID unit cover (B).

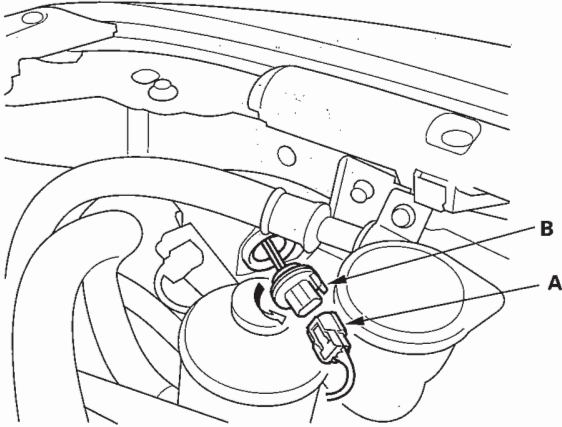


7. Disconnect the 4P connector (C) from the HID unit.
8. Inspect the gasket (D) for damage. If damaged, replace it.
9. Install in the reverse order of removal.
10. Enter the anti-theft codes for the radio and the navigation system, then enter the customer's XM radio channel presets.



High/Low Beam Switching Solenoid Test

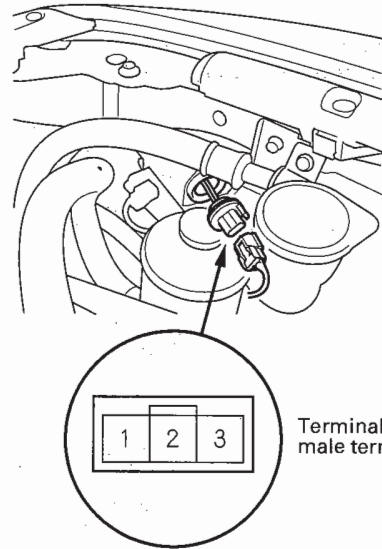
1. Remove the battery cover (left side) or right front fender trim (right side) (see page 20-131).
2. Disconnect the 3P connector (A) from the high/low switching solenoid connector (B).



NOTE: The illustration shows right side.

3. Turn the solenoid connector 45° counterclockwise, and pull it out slightly from the headlight housing.

4. Check the solenoid operation by connecting power to the No. 3 terminal and ground the No. 2 terminal momentarily. The solenoid should work.



Terminal side of male terminals

5. If the solenoid does not work, replace the headlight assembly.

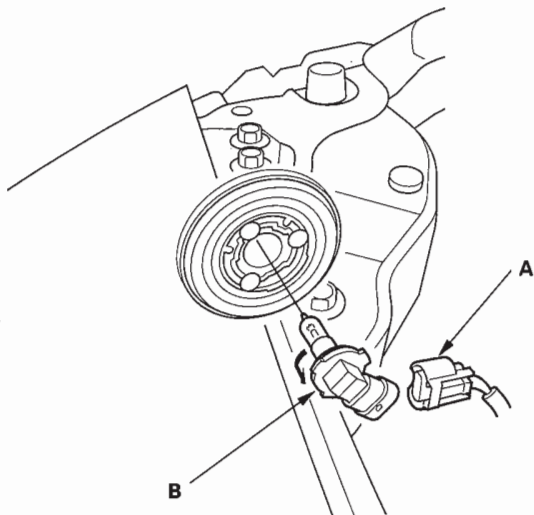
Exterior Lights

Bulb Replacement

Fog Light (USA)/Daytime Running Lights (Canada)

1. Disconnect the 2P connector (A) from the light.

Fog Light: 51 W
Daytime Running Light: 60 W



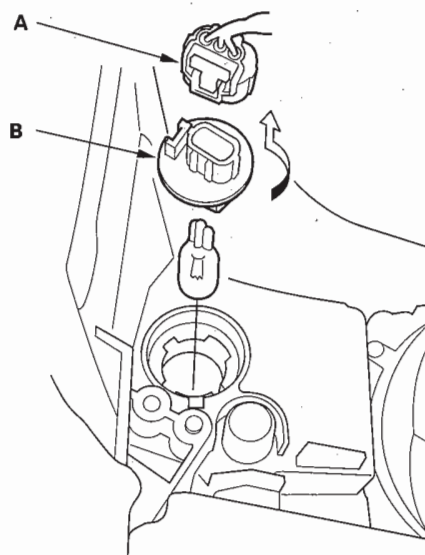
2. Turn the bulb socket (B) 45° counterclockwise to remove it from the headlight housing.
3. Install a new bulb in the reverse order of removal. Make sure the notches in the bulb align with the tabs in the headlight.

NOTE: Do not touch the glass of the bulb with your hands. If necessary, clean the glass area with alcohol.

Front Turn Signal/Front Parking Light

1. Remove the inner fender (see page 20-142).
2. Disconnect the 3P connector (A) from the front turn signal/front parking light.

Front Turn Signal/Front Parking Light: 21/5 W



3. Turn the bulb socket (B) 45° counterclockwise to remove it from the headlight housing.
4. Install a new bulb in the reverse order of removal.