2003-06 ACCESSORIES & EQUIPMENT Exterior Light - MDX

2003-06 ACCESSORIES & EQUIPMENT

Exterior Light - MDX

COMPONENT LOCATION INDEX

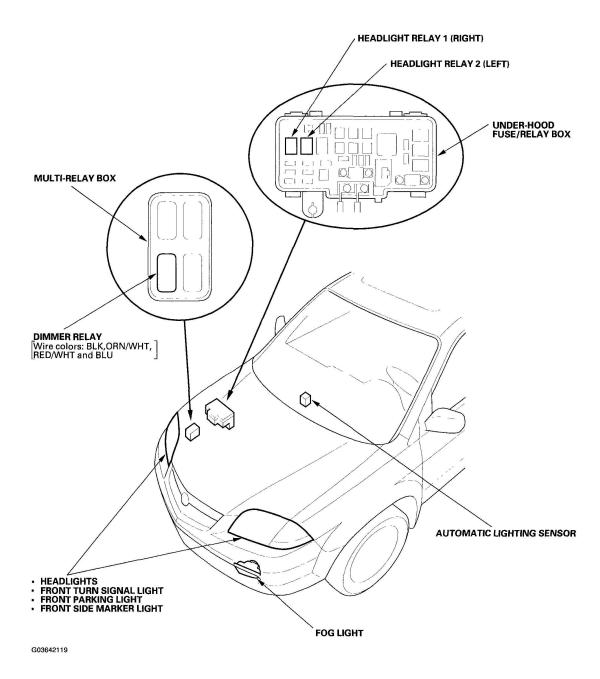


Fig. 1: Exterior Light Components Location (1 Of 3) Courtesy of AMERICAN HONDA MOTOR CO., INC.

2003-06 ACCESSORIES & EQUIPMENT Exterior Light - MDX

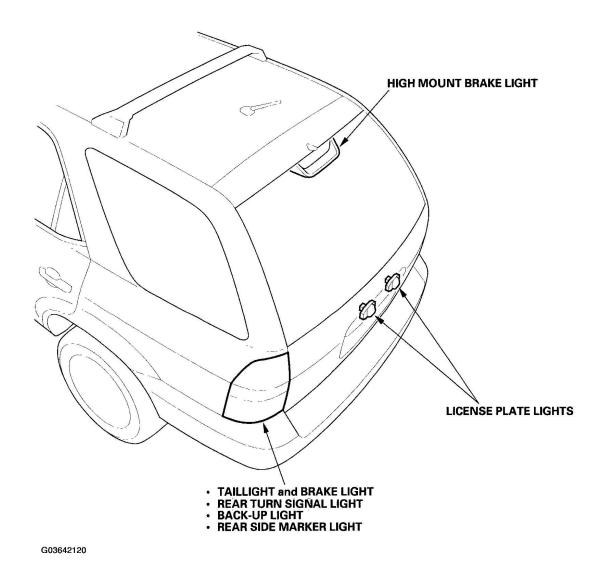


Fig. 2: Exterior Light Components Location (2 Of 3) Courtesy of AMERICAN HONDA MOTOR CO., INC.

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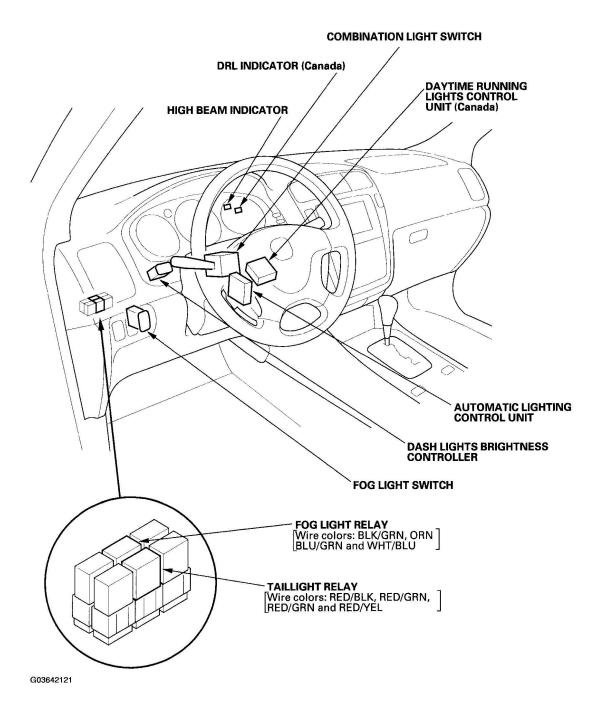


Fig. 3: Exterior Light Components Location (3 Of 3) Courtesy of AMERICAN HONDA MOTOR CO., INC.

CIRCUIT DIAGRAM

USA

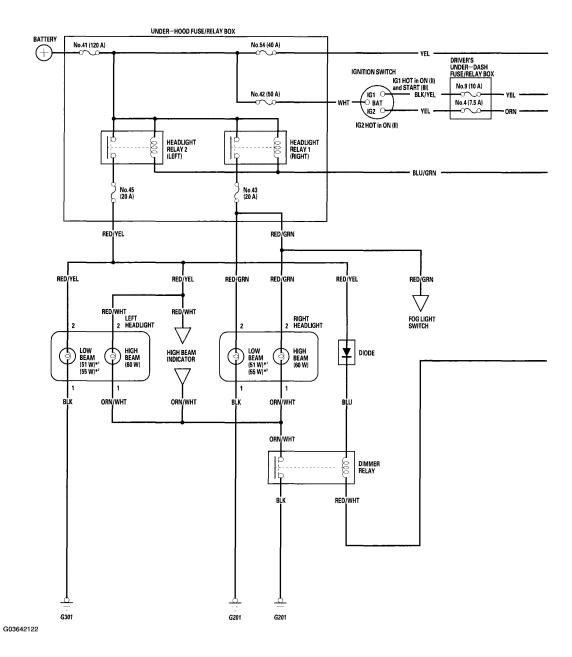


Fig. 4: Exterior Light Circuit Diagram (USA - 1 Of 2) Courtesy of AMERICAN HONDA MOTOR CO., INC.

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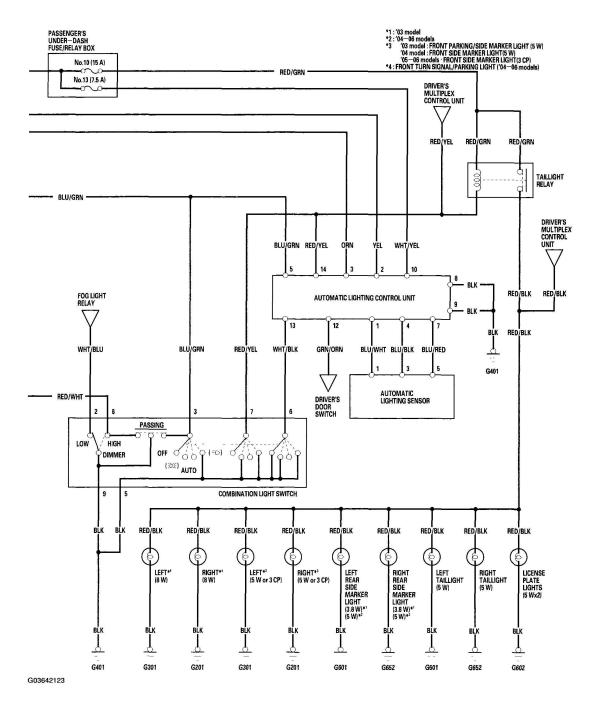


Fig. 5: Exterior Light Circuit Diagram (USA - 2 Of 2) Courtesy of AMERICAN HONDA MOTOR CO., INC.

Canada

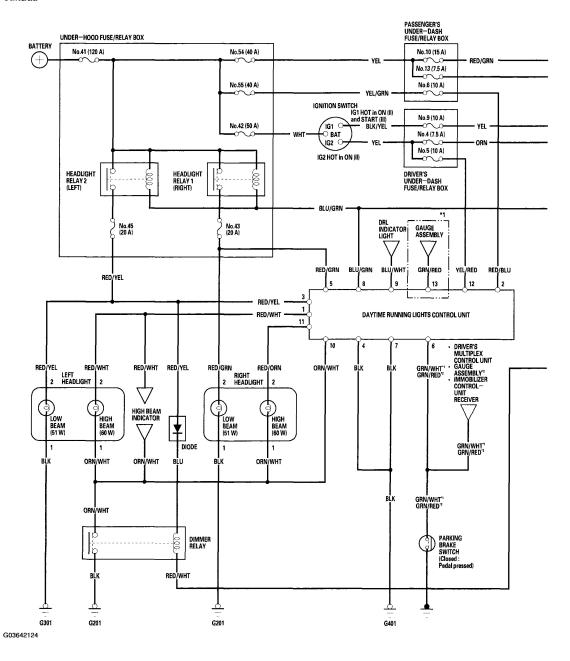


Fig. 6: Exterior Light Circuit Diagram (CANADA - 1 Of 2) Courtesy of AMERICAN HONDA MOTOR CO., INC.

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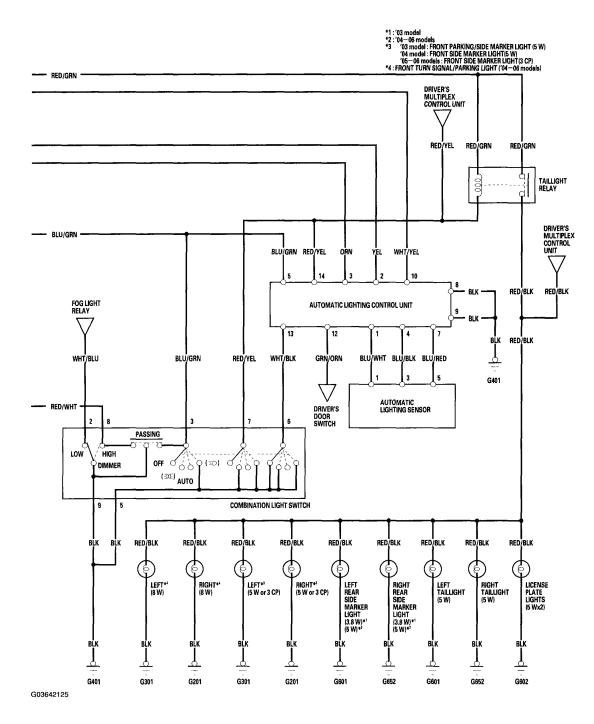


Fig. 7: Exterior Light Circuit Diagram (CANADA - 2 Of 2) Courtesy of AMERICAN HONDA MOTOR CO., INC.

CIRCUIT DIAGRAM - FOG LIGHTS

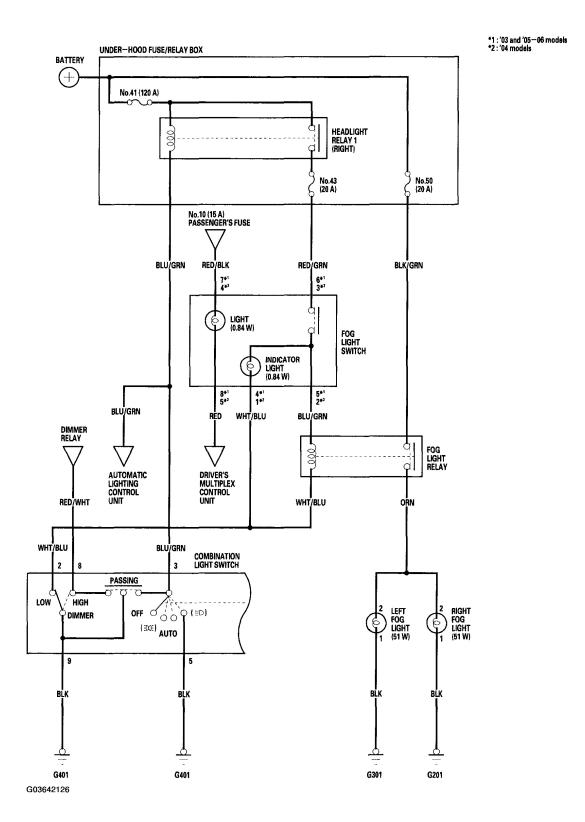


Fig. 8: Circuit Diagram - Fog Lights
Courtesy of AMERICAN HONDA MOTOR CO., INC.

CIRCUIT DIAGRAM - BACK-UP LIGHTS

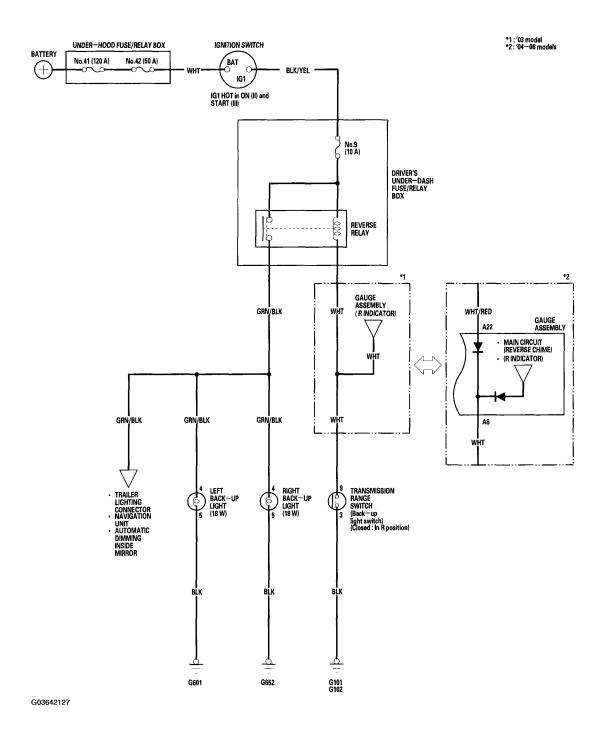


Fig. 9: Circuit Diagram - Back-Up Lights Courtesy of AMERICAN HONDA MOTOR CO., INC.

CIRCUIT DIAGRAM - BRAKE LIGHTS

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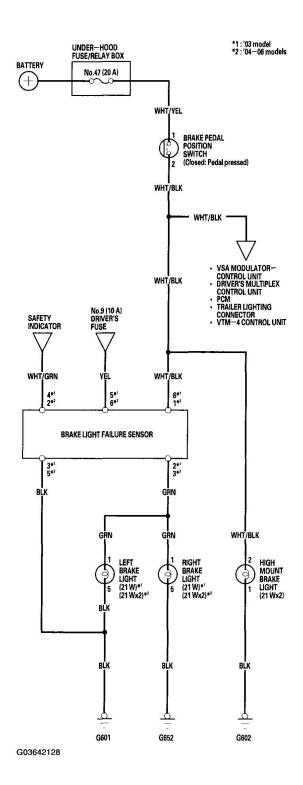


Fig. 10: Circuit Diagram - Brake Lights
Courtesy of AMERICAN HONDA MOTOR CO., INC.

AUTOMATIC LIGHTING SENSOR REPLACEMENT

NOTE: Take care not to scratch the dashboard.

1. Pry out the automatic lighting sensor (A).

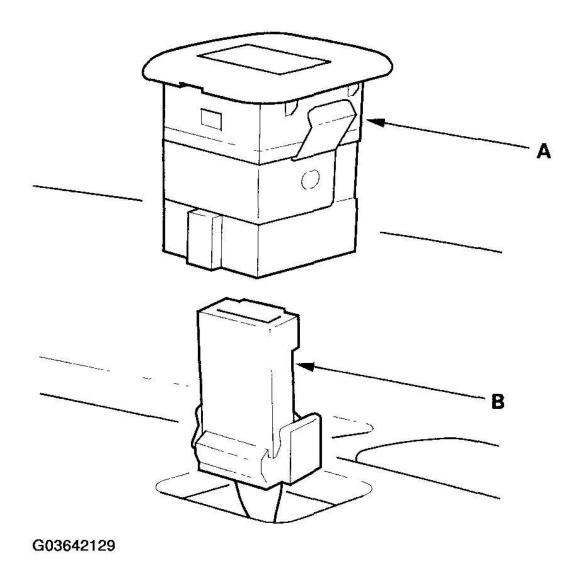


Fig. 11: Prying Out Automatic Lighting Sensor Courtesy of AMERICAN HONDA MOTOR CO., INC.

- 2. Disconnect the 5P connector (B).
- 3. Install in the reverse order of removal.

COMBINATION LIGHT SWITCH TEST/REPLACEMENT

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- 1. Remove the driver's dashboard lower cover (see **DRIVER'S DASHBOARD UNDER COVER REMOVAL/INSTALLATION**).
- 2. Remove the steering column covers (see **STEERING COLUMN REMOVAL AND INSTALLATION**).
- 3. Disconnect the 14P connector (A) from the combination light switch (B).

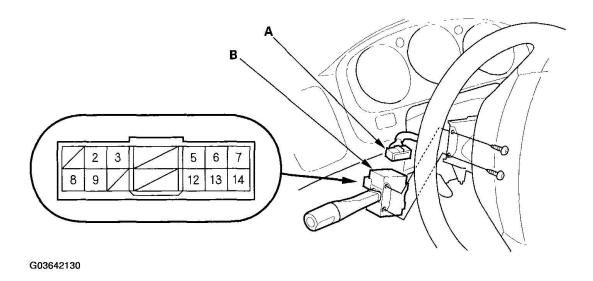


Fig. 12: Disconnecting 14P Connector From Combination Light Switch Courtesy of AMERICAN HONDA MOTOR CO., INC.

- 4. Remove the two screws, then pull out the combination light switch.
- 5. Inspect the connector terminals to be sure they are all making good contact.
 - If the terminals are bent, loose or corroded, repair them as necessary, and recheck the system.
 - If the terminals look OK, check for continuity between the terminals in each switch position according to <u>Fig. 13</u> and <u>Fig. 14</u>.

Terminal Position			2	3	5	6	7	8	9
				3_		В			
	OFF :00:				0				
					0-	-	-0		
Headlight switch	AUTO								
	≣D	LOW	0	0	0	0			0
		HIGH		0	-0	-0	0	0-	0
Donaina avvitab	0	FF							
Passing switch	assing switch ON			0-				-0-	0

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Fig. 13: Checking Continuity Between Terminals (Light Switch) Courtesy of AMERICAN HONDA MOTOR CO., INC.

Terminal Position	12	13	14
LEFT	0		
NEUTRAL			
RIGHT		0-	0

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Fig. 14: Checking Continuity Between Terminals (Turn Signal Switch) Courtesy of AMERICAN HONDA MOTOR CO., INC.

6. If the continuity is not as specified in the table, replace the switch.

AUTOMATIC LIGHTING CONTROL UNIT INPUT TEST

- 1. Remove the driver's dashboard lower cover (see **DRIVER'S DASHBOARD UNDER COVER REMOVAL/INSTALLATION**).
- 2. Disconnect the 14P connector (A) from the automatic lighting control unit (B).

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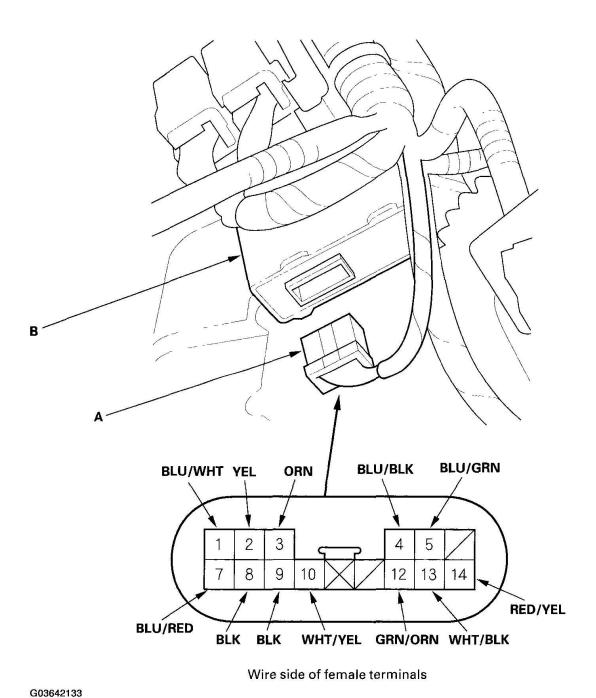


Fig. 15: Disconnecting 14P Connector From Automatic Lighting Control Unit Courtesy of AMERICAN HONDA MOTOR CO., INC.

- 3. Inspect the connector and socket terminals to be sure they are all making good contact.
 - If the terminals are bent, loose or corroded, repair them as necessary, and recheck the system.
 - If the terminals look OK, go to step 4.

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- 4. Make these input tests at the connector.
 - If any test indicates a problem, find and correct the cause, then recheck the system.
 - If all input tests prove OK, the control unit must be faulty; replace it.

AUTOMATIC LIGHTING CONTROL UNIT INPUT TEST (1 OF 2)

			Test:	Possible cause if
		Test	Desired	result is not
Cavity	Wire	condition	result	obtained
2	YEL	Ignition switch ON (II) or START (III)	Check for voltage to ground: There should be battery voltage.	Blown No. 9 (10 A) fuse in the driver's under-dash fuse/relay box
				• An open in the wire
3	ORN	Ignition switch ON (II) ⁽¹⁾		• Blown No. 4 (7.5 A) fuse in the driver's under-dash fuse/relay box
				• An open in the wire
5	BUU/GRN	Combination switch in the OFF, PARK, and AUTO positions		 Faulty headlight relay 1 or 2 An open in the wire
8	BLK	Under all conditions ⁽¹⁾	Check for voltage to ground: There	Poor ground (G401)An open in
9			should be less than 1 V.	the wire
10	WHT/YEL	Under all conditions ⁽¹⁾	Check for voltage to ground: There	• Blown No. 13 (7.5 A) fuse in the passenger's

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light switch continuity combination ON (Except to ground: light switch	12	GRN/ORN	door open ⁽¹⁾	should be battery voltage. Check for voltage to ground: There should be less than 1 V.	under-dash fuse/relay box • An open in the wire • Faulty driver's door switch • An open in the wire
conditions voltage to ground: There should be battery voltage. • An open in the wire • Blown No. 10 (15 A) fuse in the passenger's under-dash fuse/relay	13	WHT/BLK	light switch ON (Except	continuity to ground: There should be	combination light switch • Poor ground (G401) • An open in
(1) Decorporate the 14D connector to the control well			conditions	voltage to ground: There should be battery voltage.	 Faulty taillight relay An open in the wire Blown No. 10 (15 A) fuse in the passenger's under-dash fuse/relay
(1) Reconnect the 14P connector to the control unit	(1) Reconnec				

NOTE: Before testing, connect a voltmeter and jumper wires as shown in Fig. 16:

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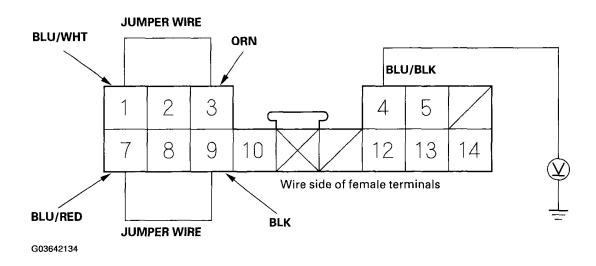


Fig. 16: Connecting Voltmeter And Jumper Wires
Courtesy of AMERICAN HONDA MOTOR CO., INC.

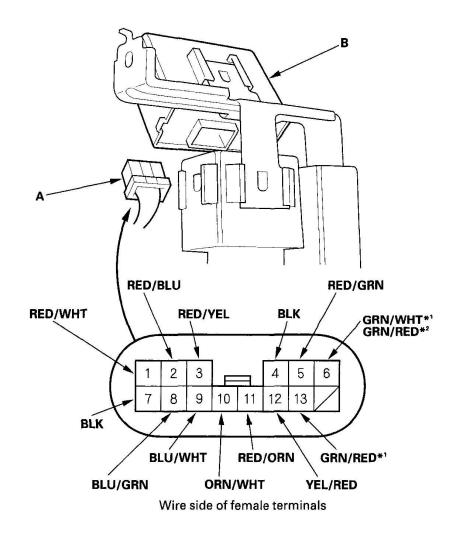
AUTOMATIC LIGHTING CONTROL UNIT INPUT TEST (2 OF 2)

	IC LIGHTI	110 001111	TOE CIVII I	THE TEST (2
		Test	Test: Desired	Possible cause if result is not
Cavity	Wire	condition	result	obtained
4	BLU/BLK		Check for voltage between the No. 4 terminal and body ground: There should be less than 1 V.	 Faulty automatic lighting sensor An open in the wire
		Shine light on the automatic lighting sensor	Check for voltage between the No. 4 terminal and body ground: There should be 5 V or more.	 Faulty automatic lighting sensor An open in the wire
(1) The automatic lighting sensor is located in the middle of dashboard. Cut the light off completely with a dark cloth.				

DAYTIME RUNNING LIGHTS CONTROL UNIT INPUT TEST

CANADA

- Remove the driver's dashboard lower cover (see <u>DRIVER'S DASHBOARD UNDER COVER</u> <u>REMOVAL/INSTALLATION</u>).
- 2. Disconnect the 14P connector (A) from the daytime running lights control unit (B).



*1: '03 model *2: '04-06 models

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Fig. 17: Disconnecting 14P Connector From Daytime Running Lights Control Unit Courtesy of AMERICAN HONDA MOTOR CO., INC.

- 3. Inspect the connector and socket terminals to be sure they are all making good contact.
 - If the terminals are bent, loose or corroded, repair them as necessary, and recheck the system.

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- If the terminals look OK, go to step 4.
- 4. Make these input tests at the connector.
 - If any test indicates a problem, find and correct the cause, then recheck the system.
 - If all the input tests prove OK, the control unit must be faulty; replace it.

Cavity	Wire	Test condition	Test: Desired result	Possible cause if result is not obtained
2	RED/BLU	Under all	Check for voltage to ground:	Blown No. 55 (40 A) fuse in the under-hood
İ		conditions*1	There should be battery voltage.	fuse/relay box
				Blown No. 6 (10 A) fuse in the passenger's
				under-dash fuse/relay box
		1.		An open in the wire
12	YEL/RED	Ignition switch	Check for voltage to ground:	Blown No. 5 (10 A) fuse in the driver's
		ON (II)*1	There should be battery voltage.	under-dash fuse/relay box
1 1			, ,	An open in the wire
4	BLK	Under all	Check for voltage to ground:	Poor ground (G401)
		conditions*1	There should be less than 1 V.	An open in the wire
7	BLK	Under all	Check for continuity to ground:	Poor ground (G401)
1		conditions*1	There should be continuity.	An open in the wire
3	RED/YEL	Combination	Check for voltage to ground:	Blown No. 45 (20 A) fuse in the under-hood
		light switch ON	There should be battery voltage.	fuse/relay box
		(≝D)	,	Faulty headlight relay 2
1				Faulty combination light switch
				An open in the wire
				Faulty driver's multiplex control unit
5	RED/GRN	Combination	Check for voltage to ground:	Blown No. 43 (20A) fuse in the under-hood
	,	light switch ON	There should be battery voltage.	fuse/relay box
		(≝ D)	,,	Faulty headlight relay 1
				Faulty combination light switch
]				An open in the wire
				Faulty driver's multiplex control unit
1	RED/WHT	Combination	Connect a jumper wire between No. 3	Blown bulb
'	1125/11111	light switch ON	and No. 1 terminals:	Faulty dimmer relay
1		(≣ D), and	Left headlight (HIGH) and high beam	Faulty combination light switch
		dimmer switch	indicator should come on.	Poor ground (G201)
		in HIGH	maioda di	An open in the wire
11	RED/ORN	Combination	Connect a jumper wire between No. 5	Blown bulb
1 1	1122, 51111	light switch ON	and No. 11 terminals:	Faulty dimmer relay
		(≣ D), and	Right headlight (HIGH) should come on.	Faulty combination light switch
		dimmer switch		Poor ground (G201)
		in HIGH		An open in the wire
10	ORN/WHT	Combination	Check for continuity to ground:	Faulty dimmer relay
	,	light switch ON	There should be continuity.	Faulty combination light switch
		(≣ O), and	·····,	Poor ground (G201)
1 1		dimmer switch		An open in the wire
		in HIGH		, and post and and
6	GRN/WHT ¹²	Parking brake	Check for continuity to ground:	Faulty parking brake switch
•		pedal pressed	There should be continuity.	An open in the wire
1 1	GRN/RED ³			1
8	BLU/GRN	Under all	Check for voltage to ground:	Faulty headlight relays
-	,•	conditions	There should be battery voltage.	An open in the wire
]			The state of the s	Faulty driver's multiplex control unit
9	BLU/WHT	Ignition switch	Attach to ground:	• Blown bulb • 2
	200,	ON (II)	The DRL indicator should come on.	Faulty gauge assembly *3
			The second secon	An open in the wire
13	GRN/RED*2	Ignition switch	Attach to ground:	Blown bulb
'	<i>,</i>	ON (II)	The brake system light should come on.	An open in the wire
		anastar to the contro		

^{* 1:} Reconnect the 14P connector to the control unit

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Fig. 18: Input Tests At Connector Chart Courtesy of AMERICAN HONDA MOTOR CO., INC.

HEADLIGHT ADJUSTMENT

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

^{* 2: &#}x27;03 model

^{* 3: &#}x27;04-06 models

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Before adjusting the headlights:

- Park the vehicle on a level surface.
- Make sure the tire pressures are correct.
- The driver or someone who weighs the same should sit in the driver's seat.
- 1. Clean the outer lens so that you can see the square on the headlights (A).

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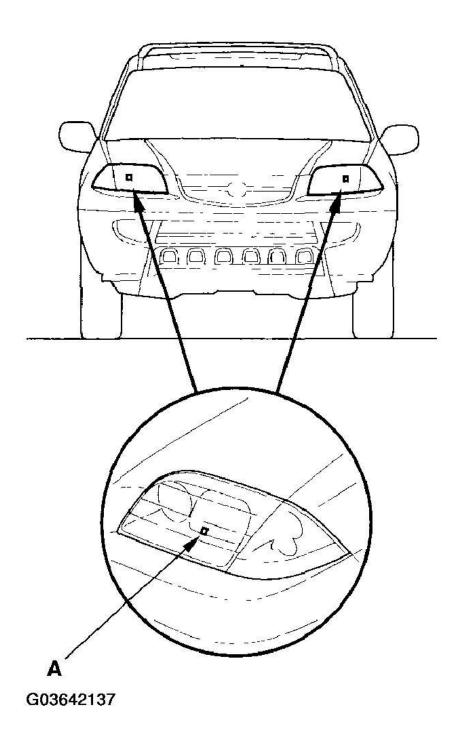


Fig. 19: Cleaning Outer Lens Of Headlights Courtesy of AMERICAN HONDA MOTOR CO., INC.

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

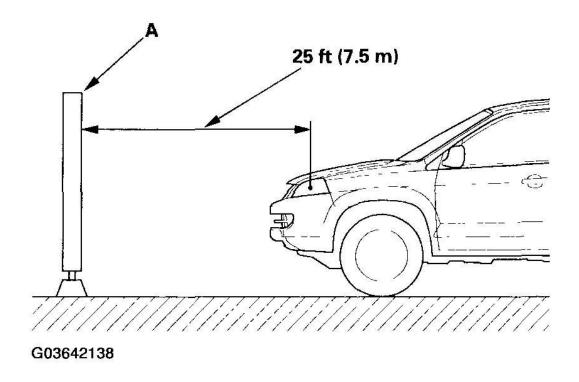


Fig. 20: Parking Vehicle Away From Wall Or Screen Courtesy of AMERICAN HONDA MOTOR CO., INC.

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

Vertical adjustment ('03 model):

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

Vertical adjustment ('04-'06 models):

Measure the height of the headlights (A). Adjust the cut line (B) to the lights height.

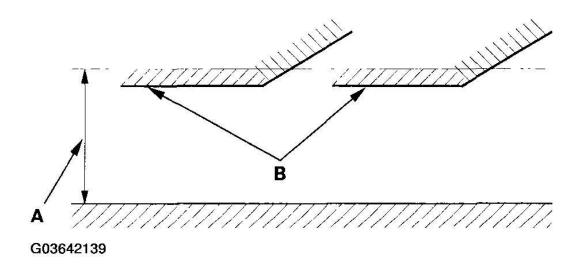


Fig. 21: Measuring Height Of Headlights ('03 Model) Courtesy of AMERICAN HONDA MOTOR CO., INC.

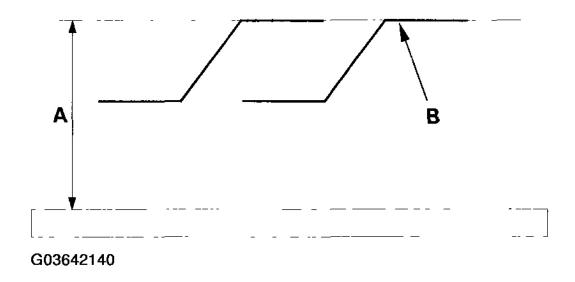
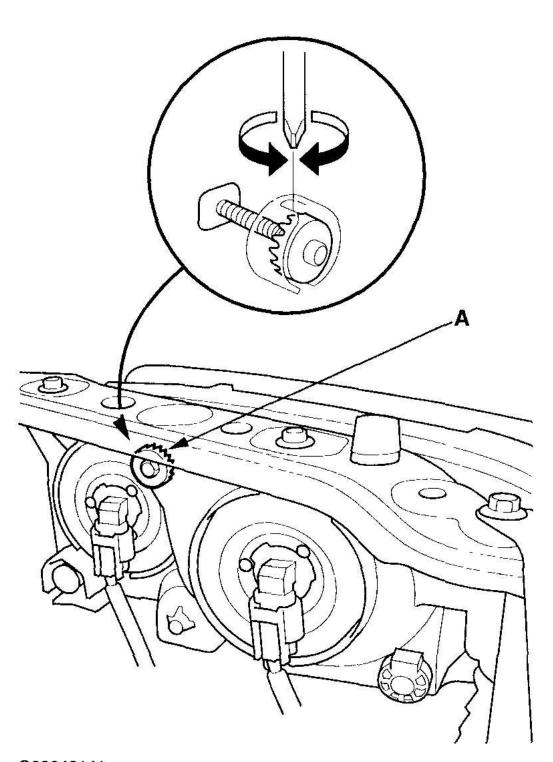


Fig. 22: Measuring Height Of Headlights ('04-'06 Models) Courtesy of AMERICAN HONDA MOTOR CO., INC.

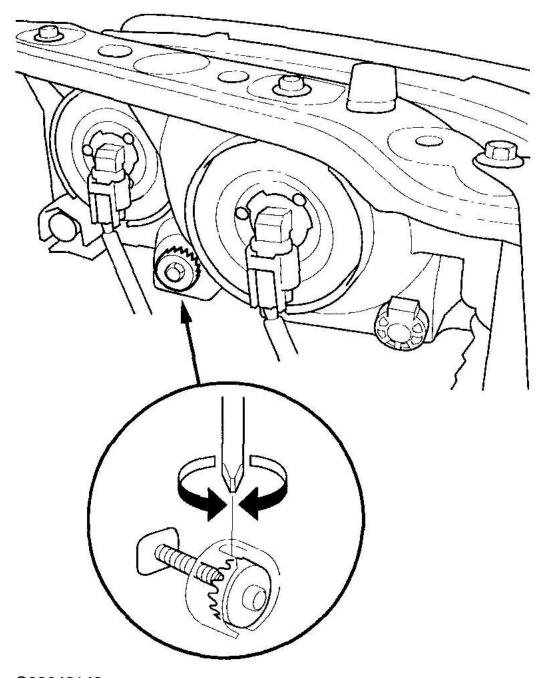
5. If necessary, adjust the headlights to local requirements by turning the vertical adjuster (A).

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Fig. 23: Adjusting Headlights ('03 Model) Courtesy of AMERICAN HONDA MOTOR CO., INC.



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Fig. 24: Adjusting Headlights ('04-06 Models)

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Courtesy of AMERICAN HONDA MOTOR CO., INC.

HEADLIGHT REPLACEMENT

- 1. Remove the front bumper.
 - '03 model (see **2003 MODEL**)
 - '04-'06 models (see **2004-06 MODELS**)
- 2. Disconnect the connectors (A) from the headlight (B).

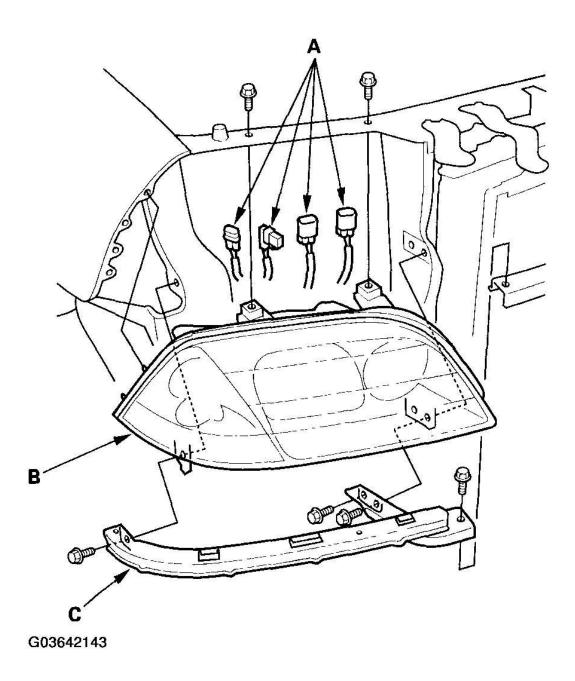


Fig. 25: Disconnecting Connectors From Headlight Courtesy of AMERICAN HONDA MOTOR CO., INC.

- 3. Remove the six mounting bolts, then remove the corner upper beam (C) and headlight assembly.
- 4. Install in the reverse order of removal.
- 5. After replacement, adjust the headlights to local requirements.

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BULB REPLACEMENT

HEADLIGHT

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

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Headlight (high): 60 W

Headlight (low): 51 W ('03 model)

55 W ('04-06 models)

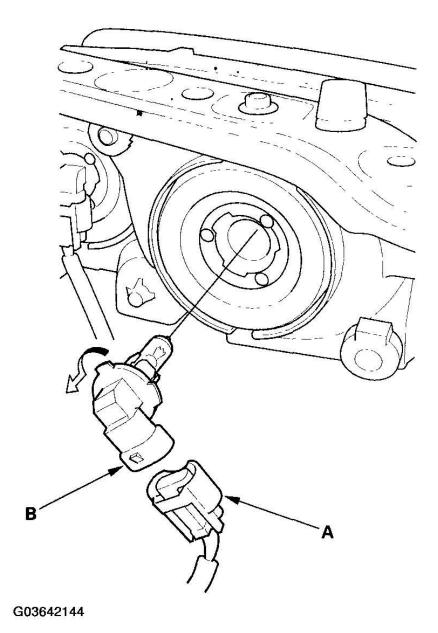


Fig. 26: Disconnecting 2P Connector From Headlight Courtesy of AMERICAN HONDA MOTOR CO., INC.

NOTE: The illustration shows '03 model.

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

FRONT TURN SIGNAL LIGHT, FRONT PARKING LIGHT, FRONT SIDE MARKER LIGHT

1. Disconnect the connectors (A) from the lights.

'03 model

Front Parking/Side Marker Light: 5W

Front Turn Signal Light: 35W

'04-'06 models:

Front Turn Signal/Parking Light: 28/8 W

Front Side Marker Light: 5 W ('04 model) 3 CP ('05-'06 models)

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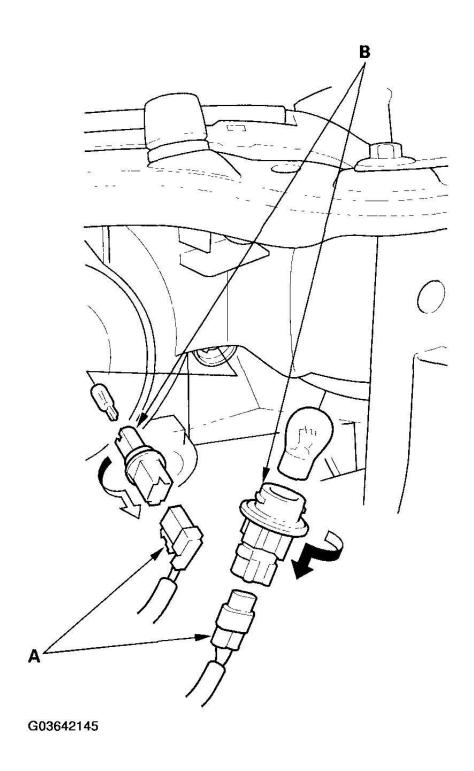


Fig. 27: Disconnecting Connectors From Lights
Courtesy of AMERICAN HONDA MOTOR CO., INC.

NOTE: The illustration shows '03 model.

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- 2. Turn the bulb socket (B) 45° counterclockwise to remove them from the housing.
- 3. Install the new bulb(s) in the reverse order of removal.

FOG LIGHT AND BULB REPLACEMENT

- 1. Remove the mounting bolt from the fog light.
- 2. Disconnect the 2P connector from the fog light.

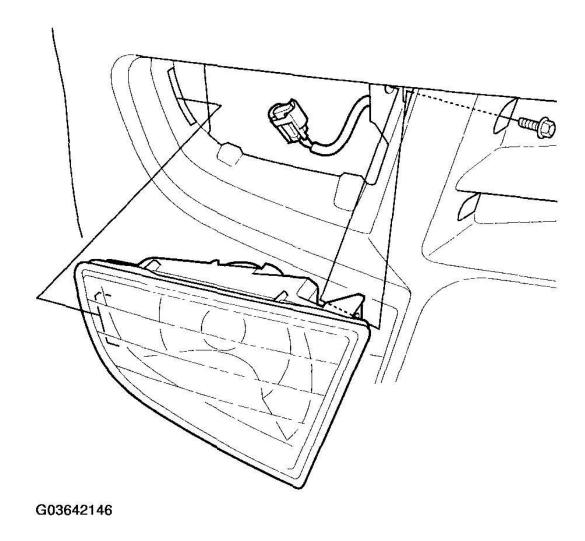
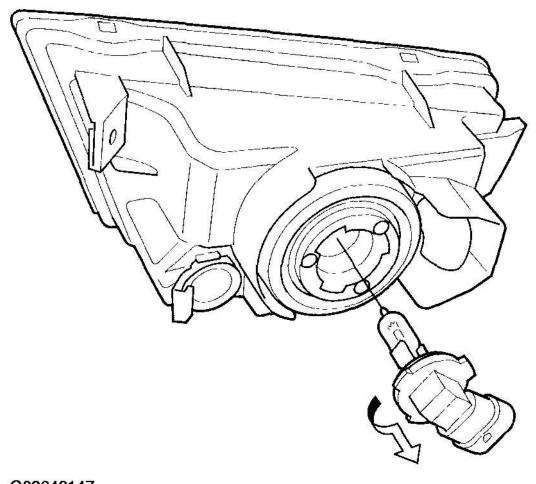


Fig. 28: Disconnecting 2P Connector From Fog Light Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Turn the bulb socket 45° counterclockwise to remove it from the housing.

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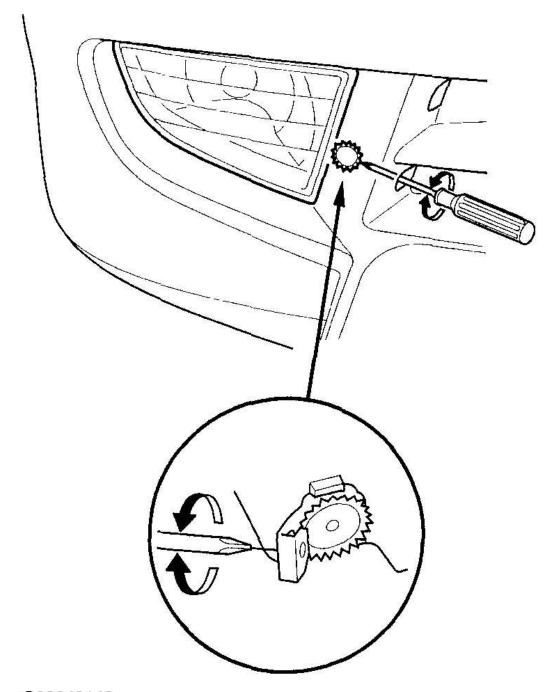
Fig. 29: Removing Bulb Counterclockwise Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Install in the reverse order of removal.

FOG LIGHT ADJUSTMENT

Adjust the fog lights to local requirements by turning the adjuster.

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Fig. 30: Adjusting Fog Lights
Courtesy of AMERICAN HONDA MOTOR CO., INC.

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FOG LIGHT SWITCH TEST

- 1. Remove the dashboard lower cover (see **DRIVER'S DASHBOARD UNDER COVER REMOVAL/INSTALLATION**).
- 2. Disconnect the 8P (or 5P*) connector (A) from the fog light switch (B).
 - *: '04 model

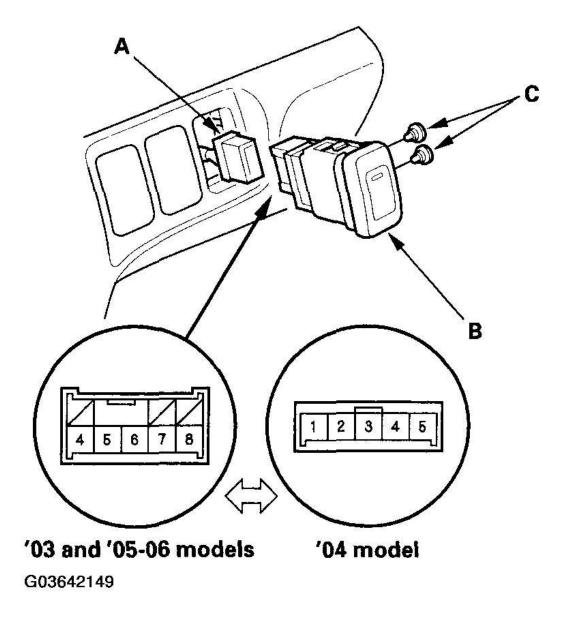


Fig. 31: Disconnecting Connector 8P (Or 5P*) From Fog Light Switch

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Courtesy of AMERICAN HONDA MOTOR CO., INC.

- 3. Pull the fog light switch out from the dashboard lower cover.
- 4. Check for continuity between the terminals:
 - There should be continuity between the No. 4 and No. 5 (No. 1 and No. 2)* terminals with the fog light switch OFF.
 - There should be continuity between the No. 4, No. 5 and No. 6 (No. 1, No. 2 and No. 3)* terminals with the fog light switch ON.
 - *: '04 model
- 5. If the continuity is not as specified, replace the switch.
- 6. If necessary, check the illumination bulbs (C).

BRAKE PEDAL POSITION SWITCH TEST

1. Disconnect the 4P connector (A) from the brake pedal position switch (B).

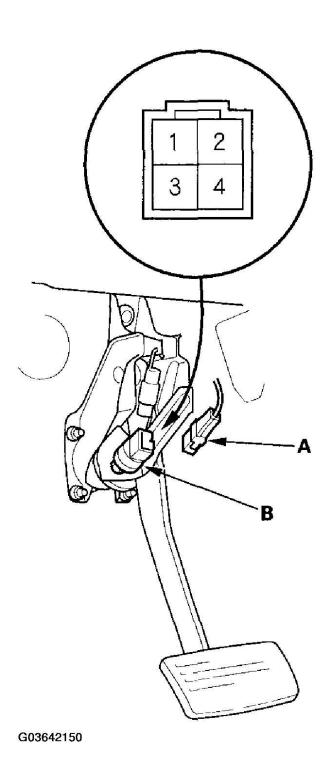


Fig. 32: Disconnecting 4P Connector From Brake Pedal Position Switch Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Check for continuity between the terminals:

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- There should be continuity between the No. 2 and No. 1 terminals when the brake pedal is pressed.
- There should be continuity between the No. 3 and No. 4 terminals when the brake pedal is released.
- 3. If the continuity is not as specified, replace the switch or adjust the pedal height (see **BRAKE PEDAL AND BRAKE PEDAL POSITION SWITCH ADJUSTMENT**).

TAILLIGHT REPLACEMENT

- 1. Open the tailgate.
- 2. Remove the two mounting bolts from the taillight.
- 3. Turn the bulb sockets 45° counterclockwise to remove it from the housing.

'03 model:

BRAKE/TAILLIGHT: 21/5 W

TURN SIGNAL LIGHT: 27/5 W (Amber)

BACK-UP LIGHT: 18 W

REAR SIDE MARKER LIGHT: 3.8 W

'04-'06 models:

BRAKE/TAILLIGHT: 21/5 W

TURN SIGNAL LIGHT: 21 W (Amber)

BACK-UP LIGHT: 18 W

BRAKE/REAR SIDE MARKER LIGHT: 21/5 W

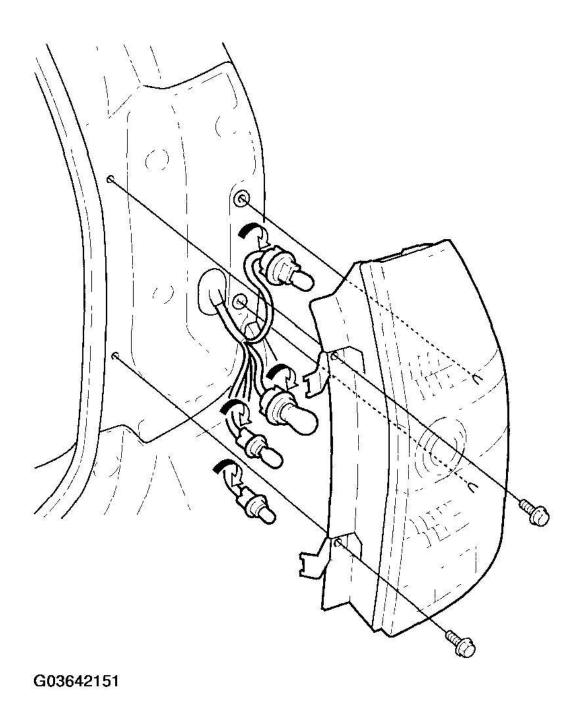


Fig. 33: Replacing Taillight
Courtesy of AMERICAN HONDA MOTOR CO., INC.

NOTE: The illustration shows '03 model.

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4. Install the taillight in the reverse order of removal, then run water over it to make sure it does not leak.

LICENSE PLATE LIGHT REPLACEMENT

1. Remove the two screws, then remove the lens (A) from the license plate light (B).

LICENSE PLATE LIGHT: 5 W

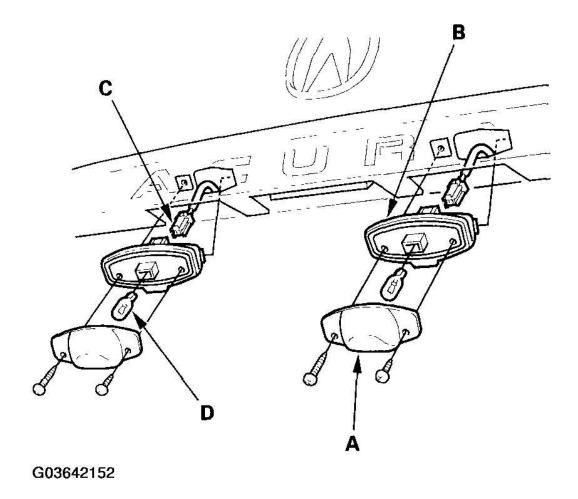


Fig. 34: Removing Lens From License Plate Light Courtesy of AMERICAN HONDA MOTOR CO., INC.

- 2. Disconnect the 2P connector (C) from the license plate light.
- 3. Remove the bulb (D) from the license plate light.
- 4. Install in the reverse order of removal.

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HIGH MOUNT BRAKE LIGHT REPLACEMENT

BULB

- 1. Open the tailgate.
- 2. Remove the lid cover (A) from the high mount brake light.

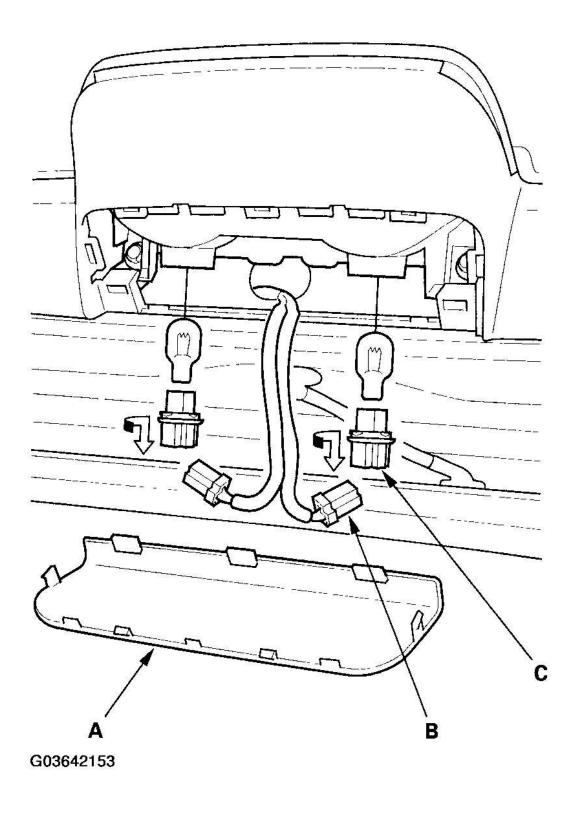


Fig. 35: Removing Lid Cover From High Mount Brake Light

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Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Disconnect the 2P connector(s) (B) from the high mount brake light.

HIGH MOUNT BRAKE LIGHT: 21 W x 2

- 4. Turn the bulb sockets (C) 45° counterclockwise to remove them from the housing.
- 5. Install the new bulb(s) in the reverse order of removal.

LIGHT ASSEMBLY

- 1. Open the tailgate.
- 2. Remove the tailgate upper trim (see **TRIM REMOVAL/INSTALLATION TAILGATE AREA**).
- 3. Turn the bulb sockets (A) 45° counterclockwise to remove them from the high mount brake light (B).

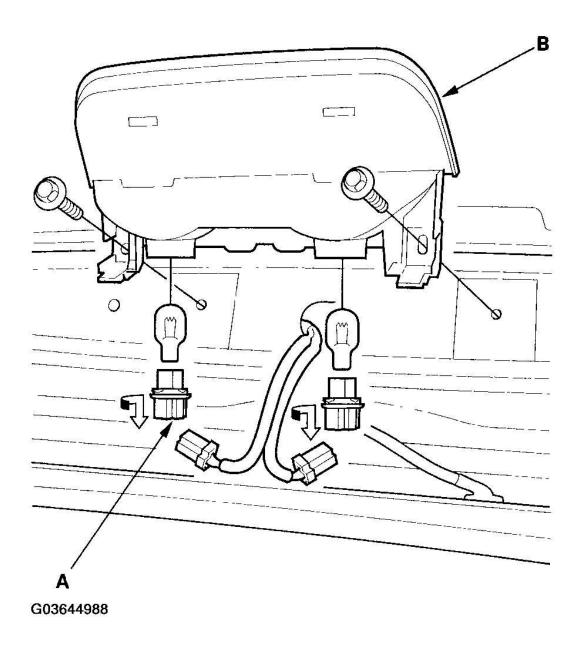


Fig. 36: Removing Bulb Sockets Counterclockwise From High Mount Brake Light Courtesy of AMERICAN HONDA MOTOR CO., INC.

- 4. Remove the two mounting bolts and the high mount brake light.
- 5. Install in the reverse order of removal.