

2006 Acura MDX

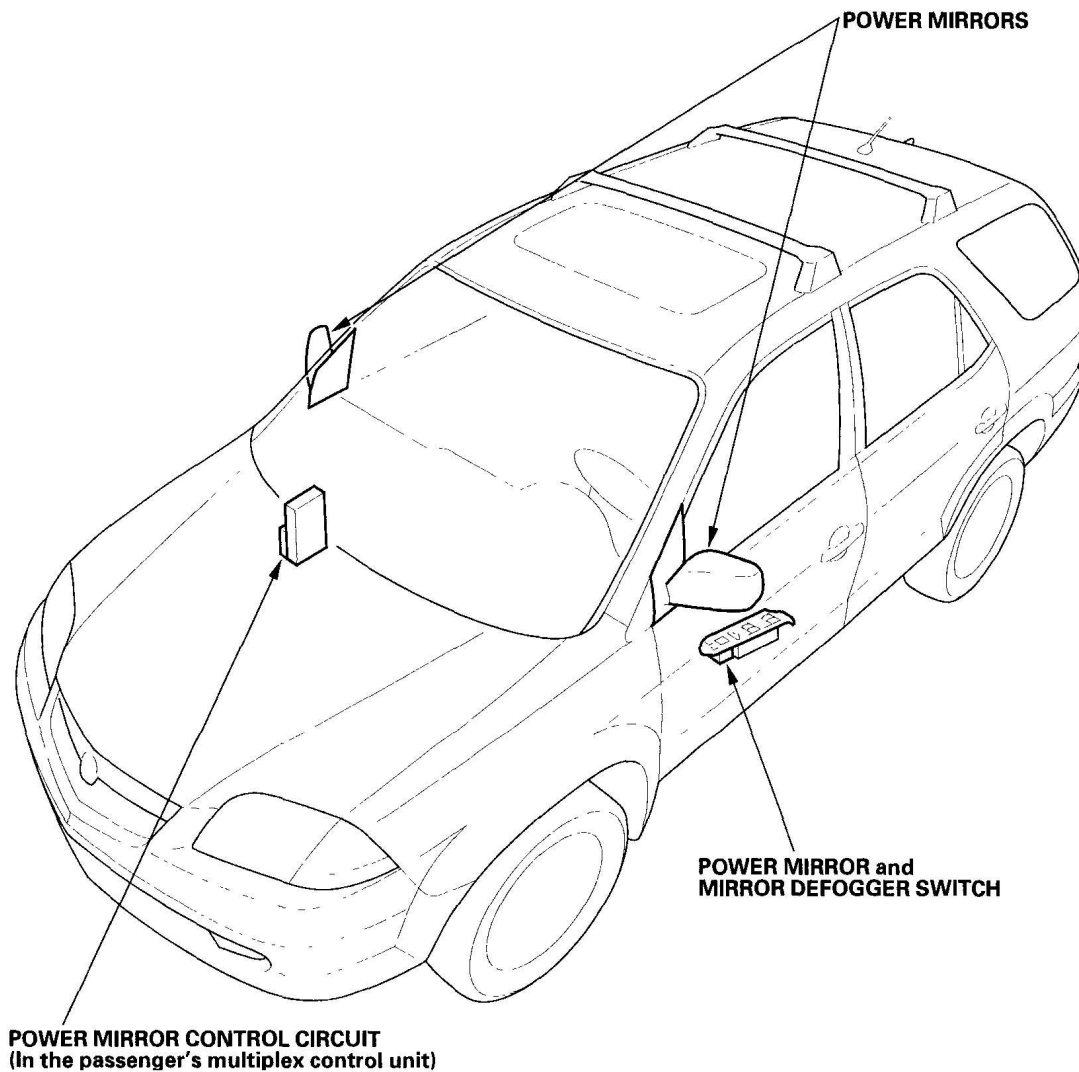
2003-06 ACCESSORIES & EQUIPMENT Power Mirrors - MDX

2003-06 ACCESSORIES & EQUIPMENT

Power Mirrors - MDX

COMPONENT LOCATION INDEX

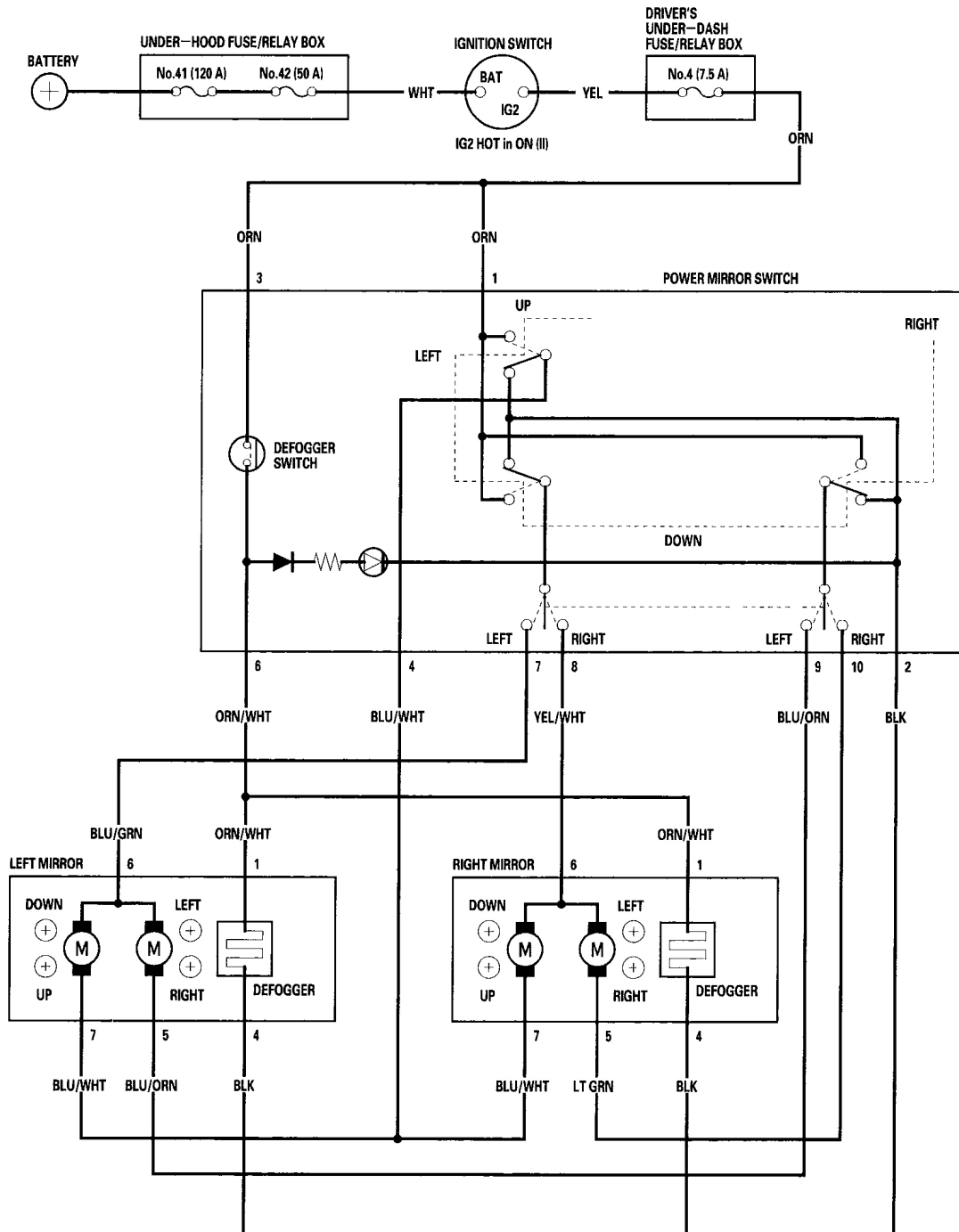
NOTE: For the power mirror with DPMS circuit diagram and input tests, refer to DRIVING POSITION MEMORY SYSTEMS (DPMS) .



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CIRCUIT DIAGRAM



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Fig. 2: Circuit Diagram - Power Mirror

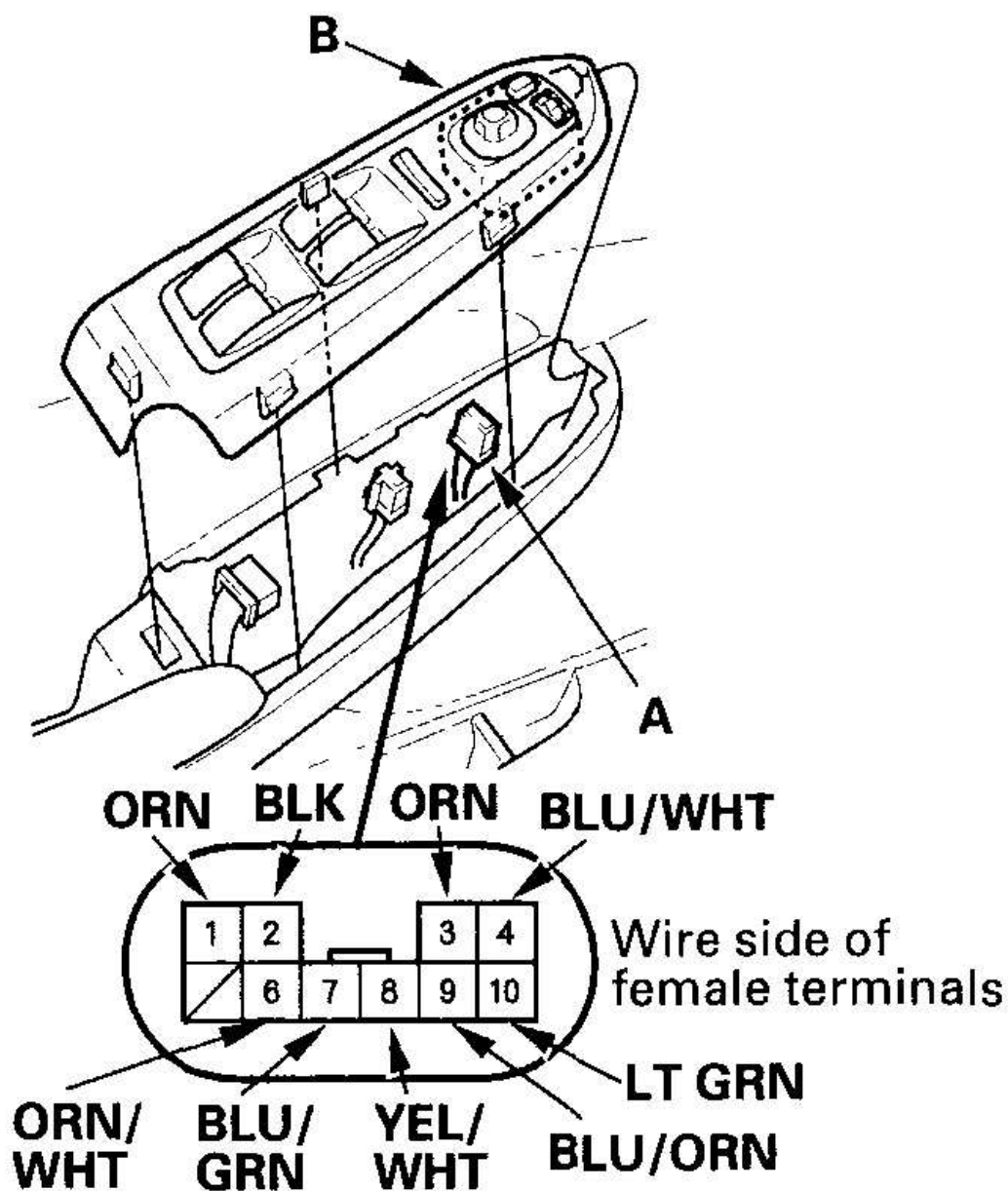
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FUNCTION TEST

1. Remove the driver's door switch trim (see **FRONT DOOR PANEL REMOVAL/INSTALLATION**).

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3. Choose the appropriate test based on the symptom:
 - Both mirrors don't work, go to step 4.
 - Left mirror doesn't work, go to **LEFT MIRROR** .
 - Right mirror doesn't work, go to **RIGHT MIRROR** .
 - Defoggers don't work, go to **DEFOGGER** .

BOTH MIRRORS

Reconnect the power mirror switch connector, and check for voltage between the No. 1 terminal and body ground with the ignition switch ON (II) while operating the power mirror switch.

There should be battery voltage.

- If there is no battery voltage, check for:
 - blown No. 4 (7.5 A) fuse in the driver's under-dash fuse/relay box.
 - an open in the ORN wire.
- If there is battery voltage, go to step 5.

Check for voltage between the No. 2 terminal and body ground while operating the power mirror switch.

There should be less than 1 V.

- If there is more than 1 V, check for:
 - an open in the BLK wire.
 - poor ground (G601).
- If there is less than 1 V, check both mirrors individually as described in **LEFT MIRROR** and **RIGHT MIRROR** .

LEFT MIRROR

Connect the No. 1 terminal to the No. 7 terminal, and the No. 4 (or No. 9) terminal to body ground with jumper wires. The left mirror should tilt down (or swing left) with the ignition switch ON (II).

- If the mirror does not tilt down (or does not swing left), check for an open in the BLU/WHT (or BLU/ ORN) wire between the left mirror and the 10P connector. If the wire is OK, check the left mirror actuator.
- If the mirror neither tilts down nor swings left, check for an open in the BLU/GRN wire.
- If the mirror works properly, check the mirror switch.

RIGHT MIRROR

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GRN) wire between the right mirror and the 10P connector. If the wire is OK, check the right mirror actuator.

- If the mirror neither tilts down nor swings left, check for an open in the YEL/WHT wire.
- If the mirror works properly, check the mirror switch.

DEFOGGER

Connect the No. 3 and No. 6 terminals with a jumper wire, and check for voltage between the No. 3 terminal and body ground. There should be battery voltage and both mirrors should warm up with the ignition switch ON (II).

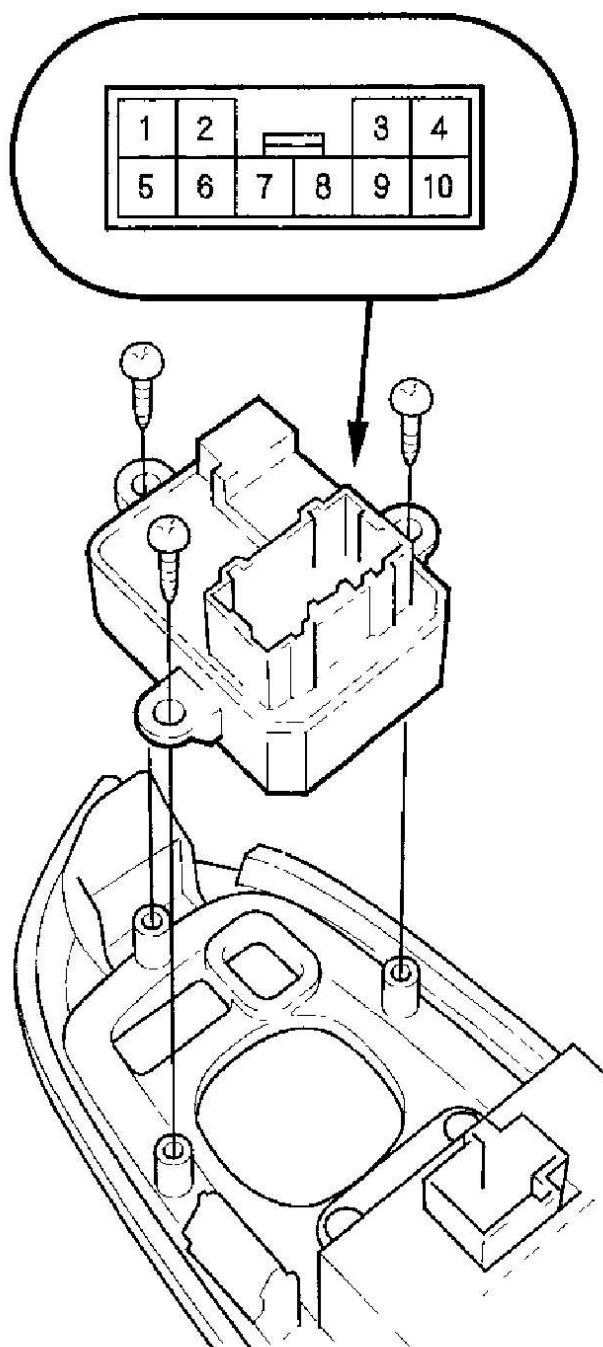
- If there is no voltage or neither warms up, check for:
 - an open in the ORN and ORN/WHT wires.
 - blown No. 4 (7.5 A) fuse in the driver's under-dash fuse/relay box.
 - poor ground (G601, G651).
- If only one fails to warm up, check its defogger.
- If both warm up, check the defogger switch.

POWER MIRROR AND MIRROR DEFOGGER SWITCH TEST/REPLACEMENT

1. Remove the driver's door switch trim (see **FRONT DOOR PANEL REMOVAL/INSTALLATION**).
2. Disconnect the 10P connector from the power mirror switch.

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4. Check for continuity between the terminals in each switch position according to **Fig. 5** and **Fig. 6** .


Terminal Position		1	2	4	7	8	9	10
L	UP	○	○	○				
	DOWN	○	○	○				
	LEFT	○	○		○			
	RIGHT	○	○				○	
R	UP	○	○	○		○		
	DOWN	○	○	○		○		
	LEFT	○	○			○		○
	RIGHT	○	○			○		○

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Fig. 5: Checking Continuity Between Terminals In Each Switch Position (Mirror Switch)

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Terminal Position	3	6
ON		
OFF		

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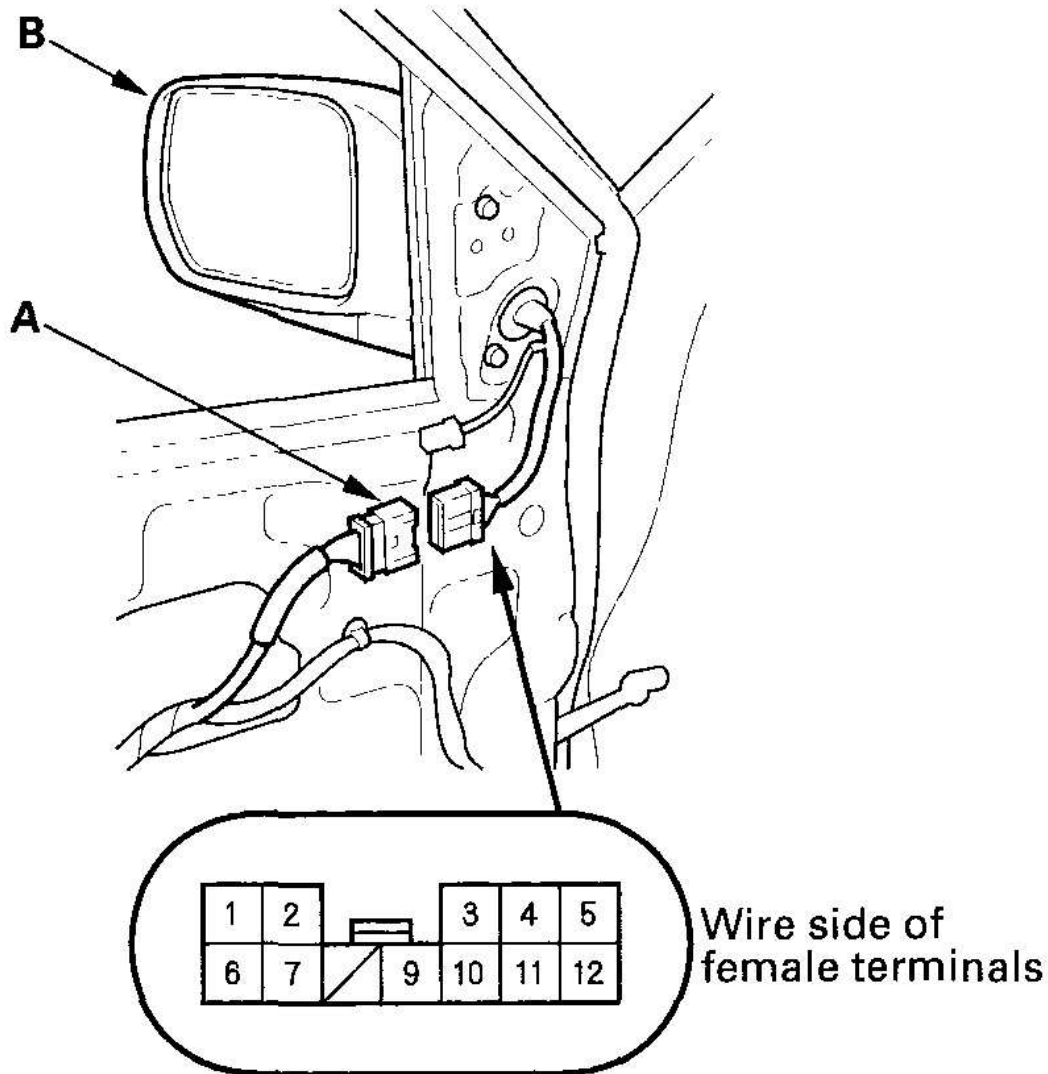
Fig. 6: Checking Continuity Between Terminals In Each Switch Position (Defogger Switch)
Courtesy of AMERICAN HONDA MOTOR CO., INC.

5. If the continuity is not as specified, replace the switch.

POWER MIRROR ACTUATOR TEST

WITH DPMS

1. Remove the door panel (see **FRONT DOOR PANEL REMOVAL/INSTALLATION**).
2. Disconnect the 12P connector (A) from the power mirror actuator (B).



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Fig. 7: Disconnecting 12P Connector From Power Mirror Actuator
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3. Check actuator operation by connecting power and ground according to **Fig. 8**.

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Terminal	9	10	11
Position			
TILT UP	⊕	⊖	
TILT DOWN	⊖	⊕	
SWING LEFT		⊕	⊖
SWING RIGHT		⊖	⊕

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Fig. 8: Checking Actuator Operation By Connecting Power And Ground Chart
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. If the mirror fails to work properly, replace the mirror actuator.

Defogger Test

Check for continuity between the No. 6 and No. 7 terminals of the 12P connector. There should be continuity.

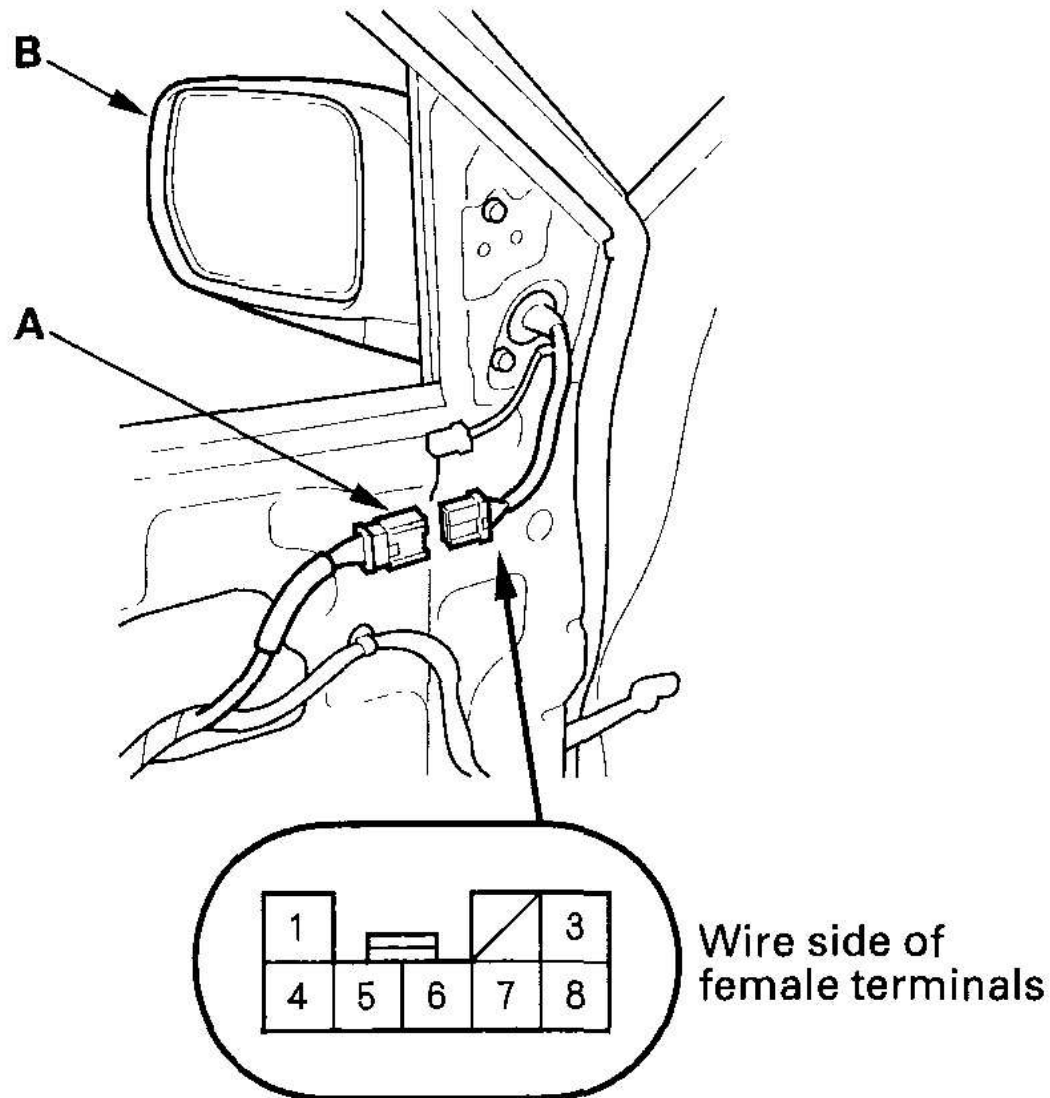
If there is no continuity, replace the mirror holder (see MIRROR HOLDER REPLACEMENT).

WITHOUT DPMS

1. Remove the door panel (see FRONT DOOR PANEL REMOVAL/INSTALLATION).
2. Disconnect the 8P connector (A) from the power mirror actuator (B).

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Fig. 9: Disconnecting 8P Connector From Power Mirror Actuator
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3. Check actuator operation by connecting power and ground according to **Fig. 10**.

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Terminal Position	5	6	7
TILT UP		⊖	⊕
TILT DOWN		⊕	⊖
SWING LEFT	⊖	⊕	
SWING RIGHT	⊕	⊖	

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Fig. 10: Checking Actuator Operation By Connecting Power And Ground Chart
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. If the mirror fails to work properly, replace the mirror actuator.

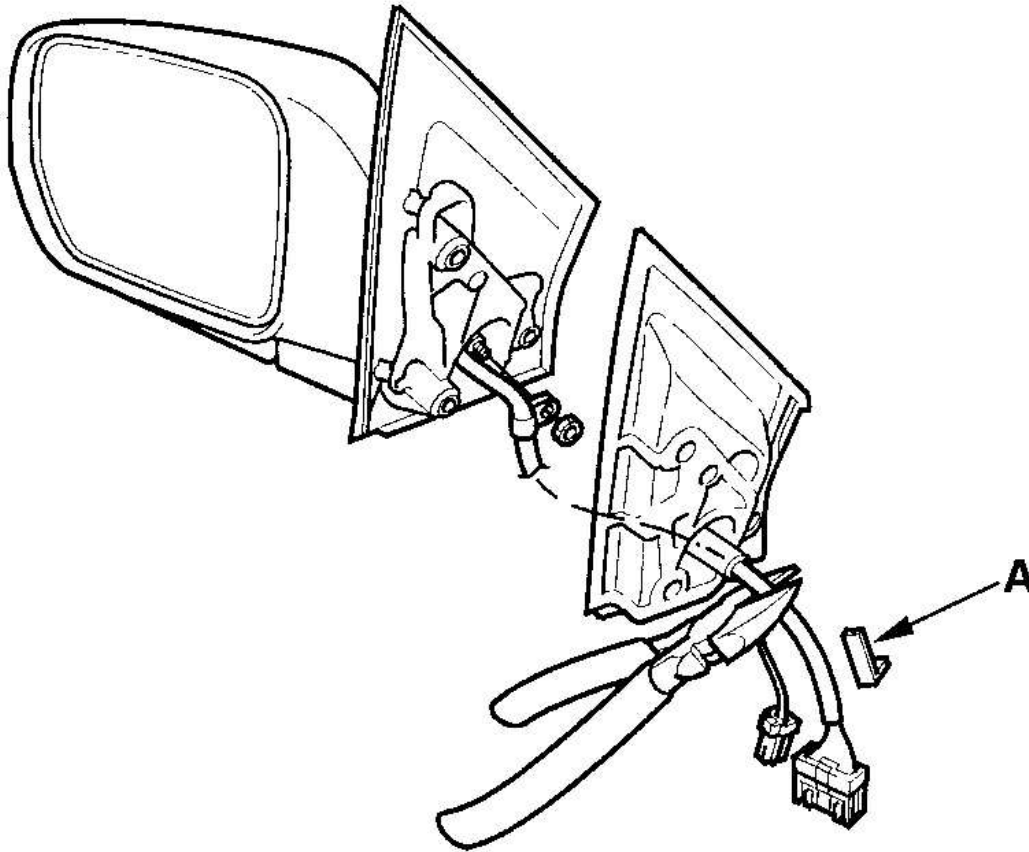
Defogger Test

Check for continuity between the No. 1 and No. 4 terminals of the 8P connector. There should be continuity.

If there is no continuity, replace the mirror holder (see MIRROR HOLDER REPLACEMENT).

POWER MIRROR ACTUATOR/TWEETER HARNESS REPLACEMENT

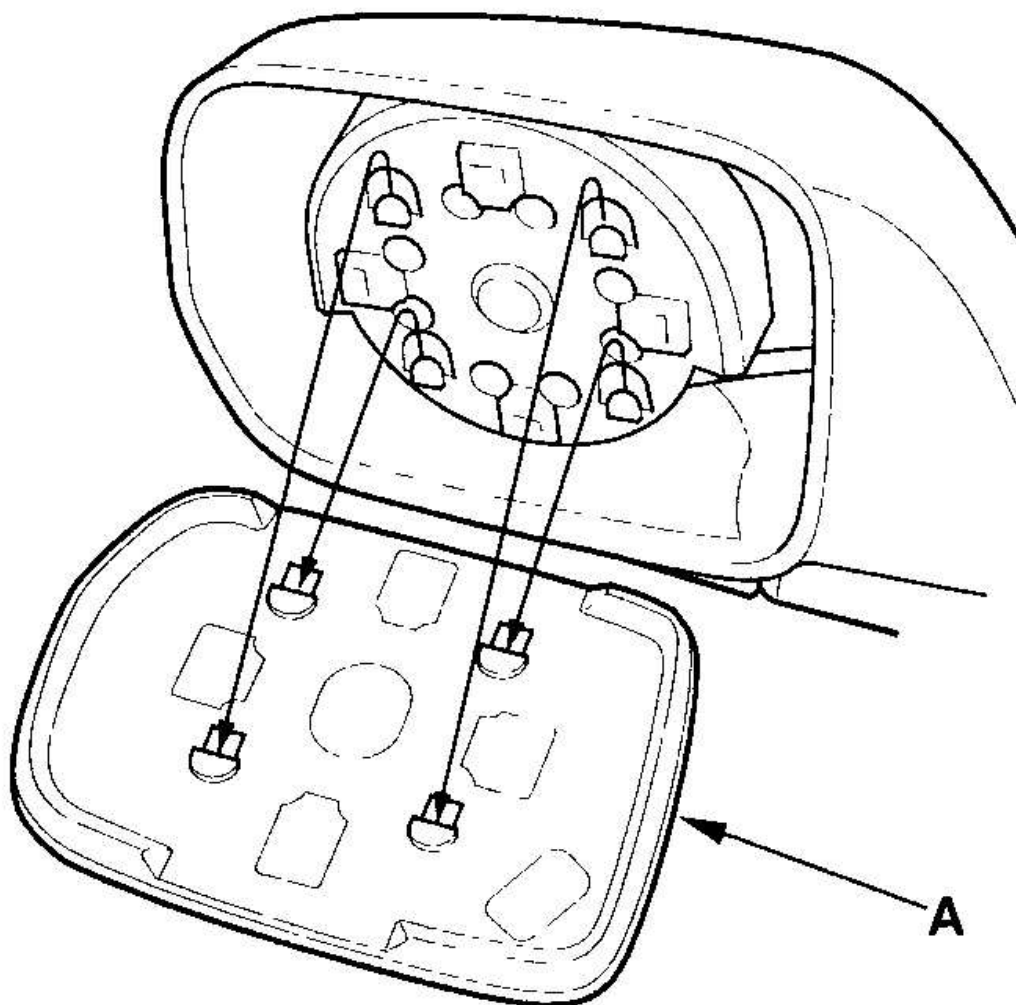
1. Remove the power mirror (see POWER MIRROR REPLACEMENT).
2. Disconnect the connector(s).
3. Record the terminal locations and wire colors.
4. Remove the wire harness clip (A) from the harness, then cut the harness with wire cutters.



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Fig. 11: Removing Wire Harness Clip
Courtesy of AMERICAN HONDA MOTOR CO., INC.

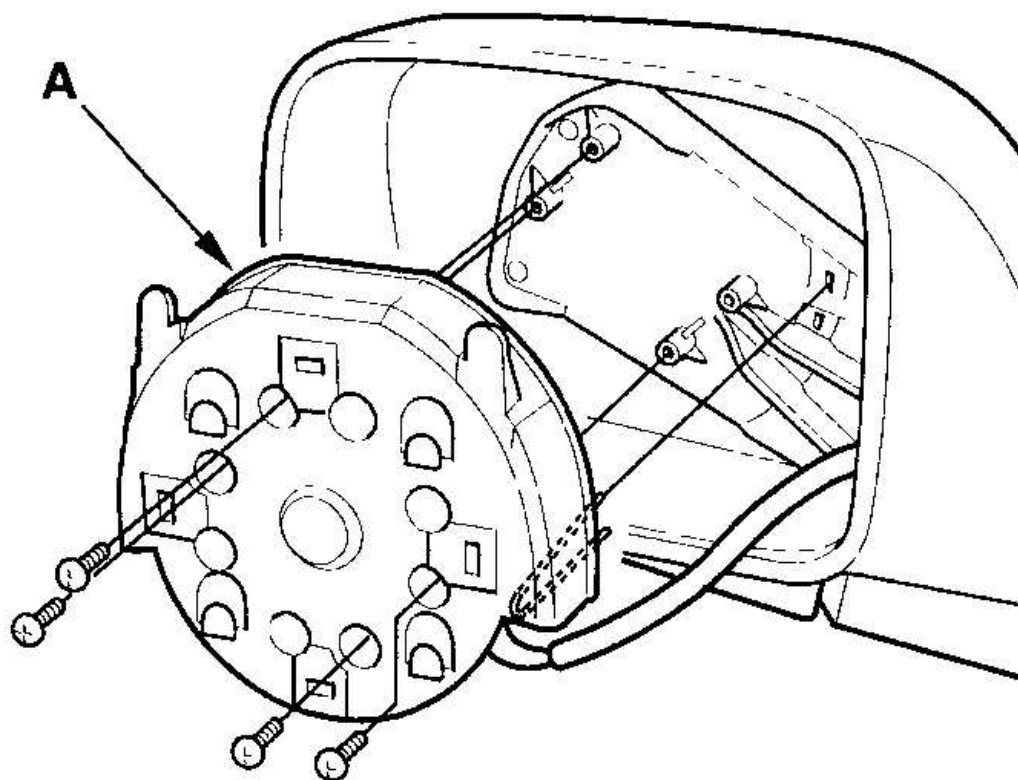
5. Slide the mirror holder (A) up and remove it.



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Fig. 12: Removing Sliding Mirror Holder
Courtesy of AMERICAN HONDA MOTOR CO., INC.

6. Remove the four screws, then remove the actuator (A).

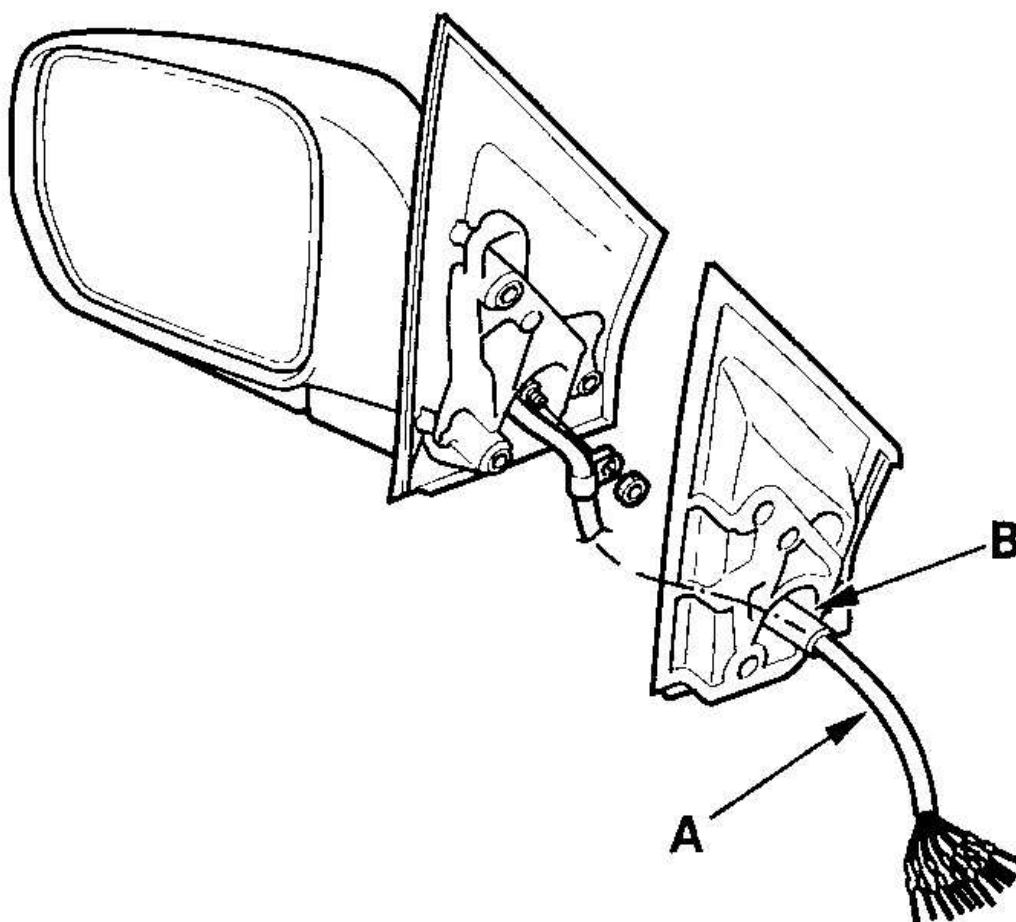


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Fig. 13: Removing Actuator

Courtesy of AMERICAN HONDA MOTOR CO., INC.

7. Route the wire harness (A) of the new actuator through the hole in the bracket (B).



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Fig. 14: Routing Wire Harness Through Hole In Bracket
Courtesy of AMERICAN HONDA MOTOR CO., INC.

8. Insert the terminals into the connector.

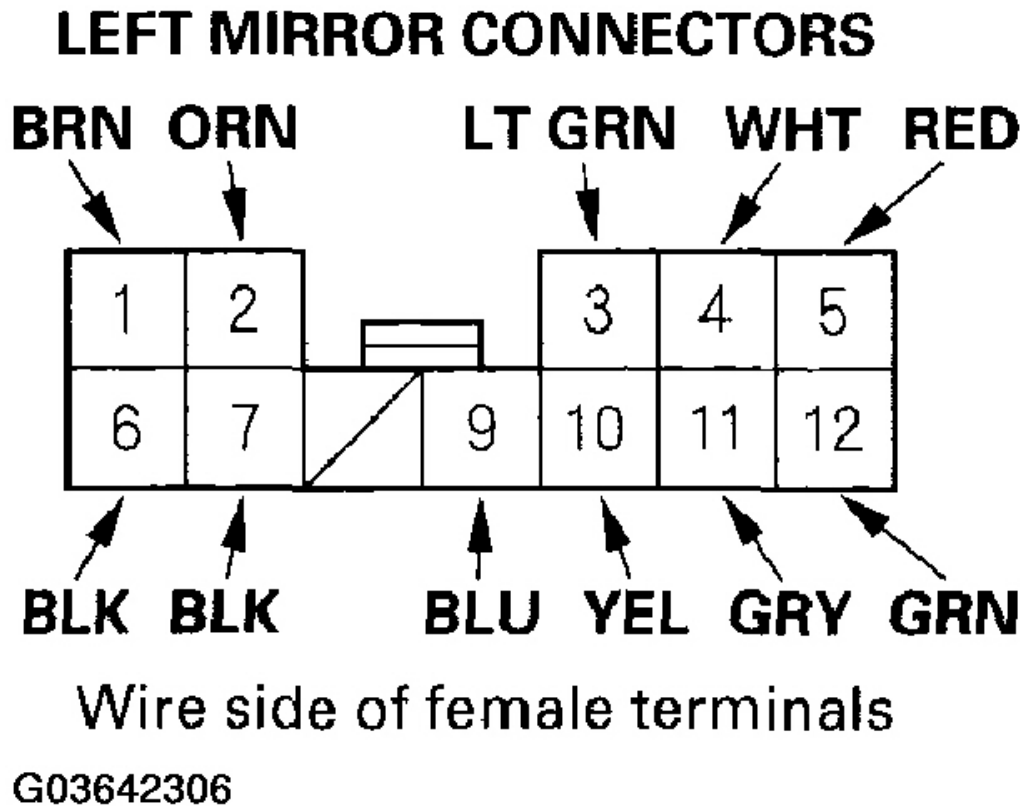


Fig. 15: Inserting Terminals Into Left Mirror Connectors (With DPMS - Terminal No. 5 And No. 12 Are For Tweeter)

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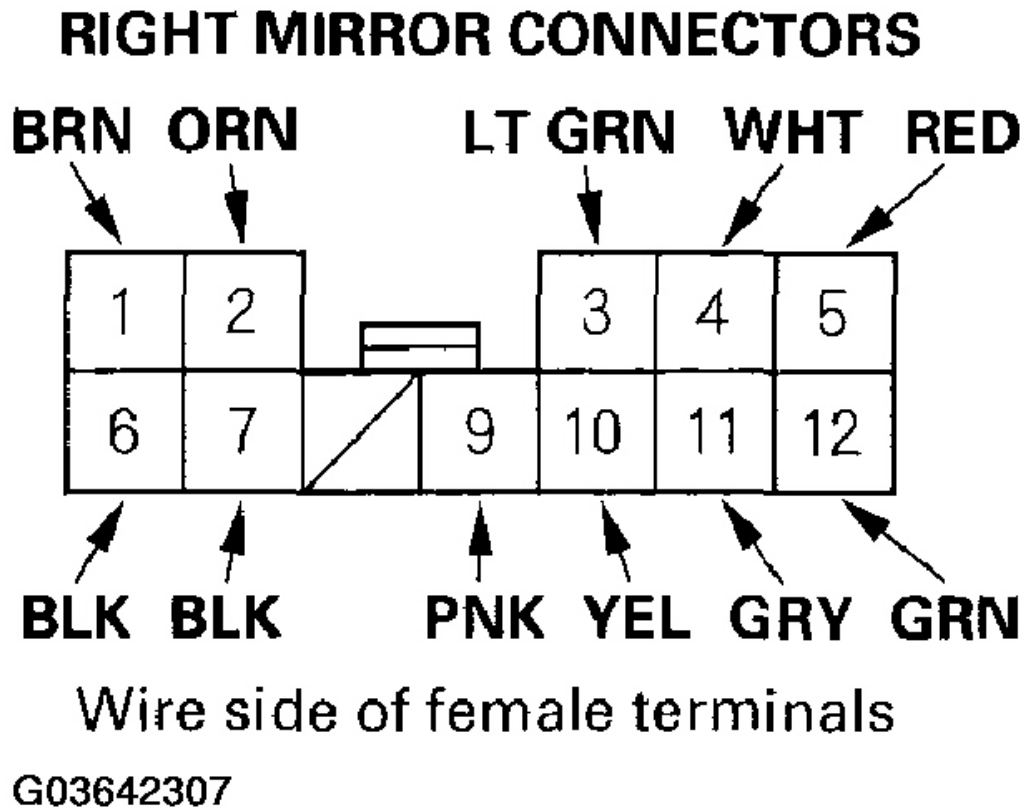
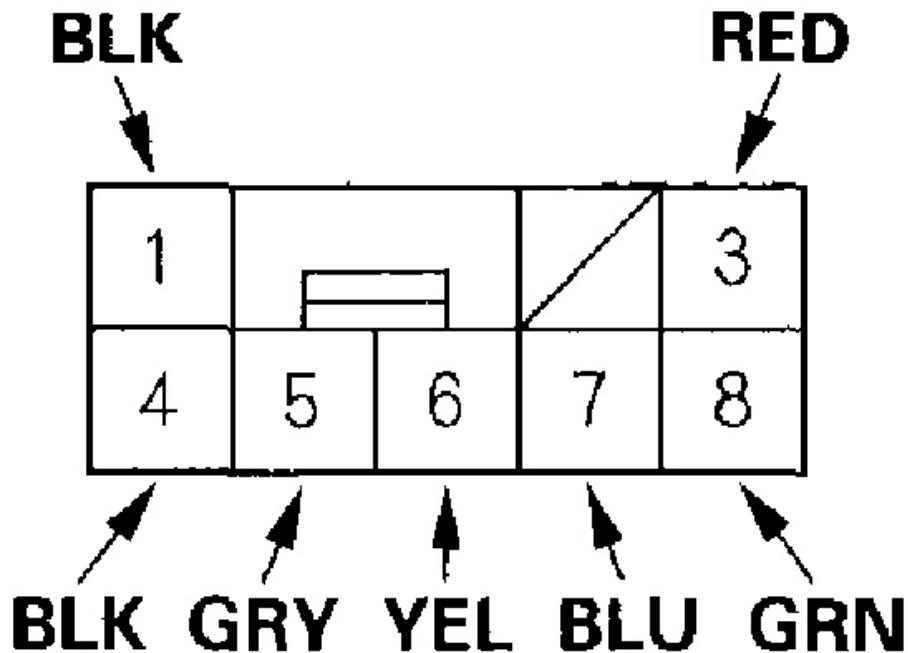


Fig. 16: Inserting Terminals Into Right Mirror Connectors (With DPMS - Terminal No. 5 And No. 12 Are For Tweeter)

Courtesy of AMERICAN HONDA MOTOR CO., INC.

LEFT MIRROR CONNECTORS



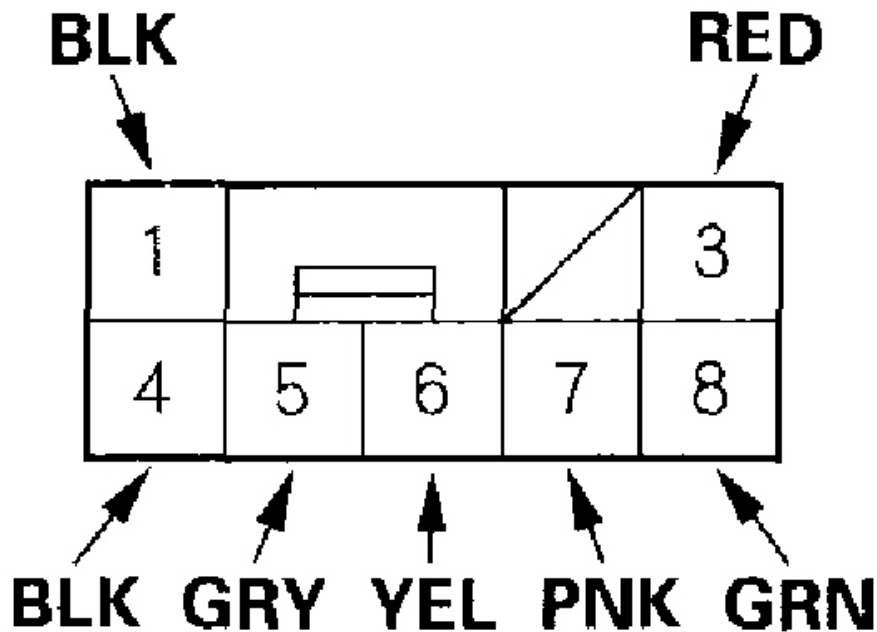
Wire side of female terminals

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Fig. 17: Inserting Terminals Into Left Mirror Connectors (Without DPMS - Terminal No. 3 And No. 8 Are For Tweeter)

Courtesy of AMERICAN HONDA MOTOR CO., INC.

RIGHT MIRROR CONNECTORS



Wire side of female terminals

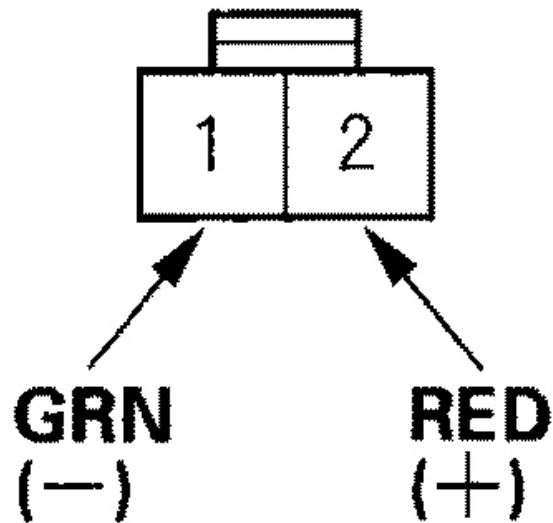
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Fig. 18: Inserting Terminals Into Right Mirror Connectors (Without DPMS - Terminal No. 3 And No. 8 Are For Tweeter)

Courtesy of AMERICAN HONDA MOTOR CO., INC.

9. Insert the terminals of tweeter side into the new tweeter 2P connector.

TWEETER CONNECTORS



Wire side of female terminals

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Fig. 19: Inserting Terminals Into Tweeter 2P Connector

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12. Reassemble in the reverse order of disassembly. Be careful not to break the mirror holder when reinstalling it to the actuator.
13. Reinstall the mirror assembly to the door.
14. Operate the power mirror to ensure smooth operation.