



Signal® Mirror Installation Instructions

Dodge Dakota 2001-2004, Dodge Durango 2001-2003



THE safety accessory of the 21st Century.™

P/N 210-0069-0

Rev C4 (7-2-04), GG

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Note: Professional Installation Recommended

Warranty does not cover damage to the vehicle or mirror housing due to improper installation. The following installation instructions are to be considered as a guide only. Door removal procedures, indicator wire color and location may have changed since publication of these instructions. The installer is responsible for any damage that may occur during installation.

INCLUDED ITEMS:

- 1 left and 1 right *Signal*[®] mirror
- 1 left and 1 right wire harness
- 2 wire taps
- 1 ring connectors
- 1 instruction manual

REQUIRED TOOLS:

- Ratchet with extension or ratcheting screwdriver
- 10 mm socket
- 8 mm socket
- Medium Philips screwdriver
- T-27 torx screwdriver
- 90° Pick
- Gopher wire
- Wire crimper and stripper
- Masking tape
- Multimeter
- Sturdy gloves
- Safety glasses or goggles

Please read instructions prior to installation.

PROBLEMS OR QUESTIONS?

Technical Assistance is available by calling
Muth Mirror Systems Technicians at:

1-800-844-6616

Monday through Friday
Between 8:00 a.m. and 5:00 p.m. CST

Or through the Muth web site:

www.muthco.com

Or via E-mail: techsupport@muthco.com

Mirror Housing Removal



1. Lower the window. Remove the (5) screws holding the door panel in place (A,B,C,D,E).
2. Gently raise door panel to expose door wiring.
3. Unsnap door latch as shown. Unplug the connections for the mirror, door lock, and window control wires. Remove the door panel.



Mirror Housing Removal Continued

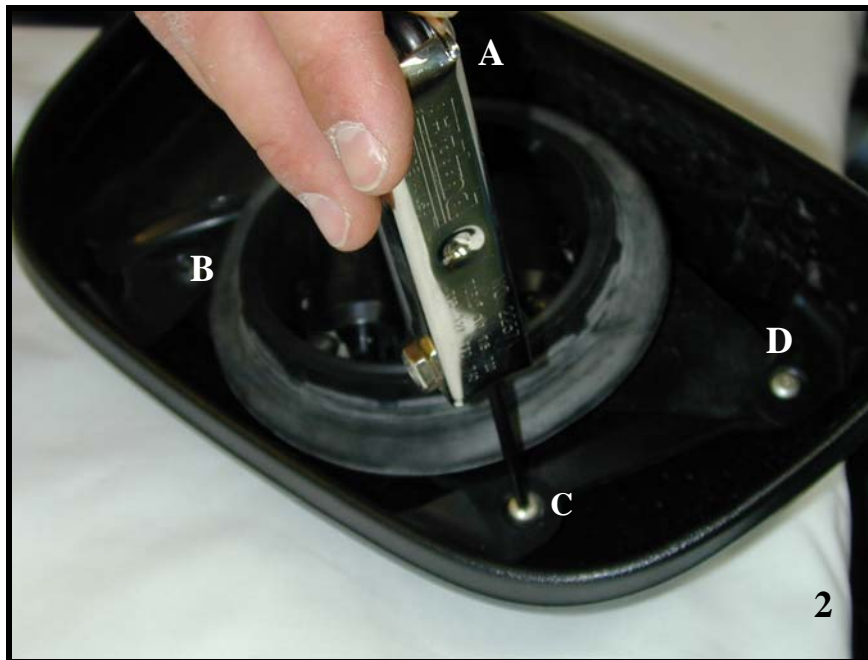


4. While securing mirror with one hand, and being sure not to drop components into the door, remove the (3) nuts holding the mirror housing to the door.



5. Push in and pull the rubber boot as shown. Remove the mirror housing from the door.

Mirror Replacement

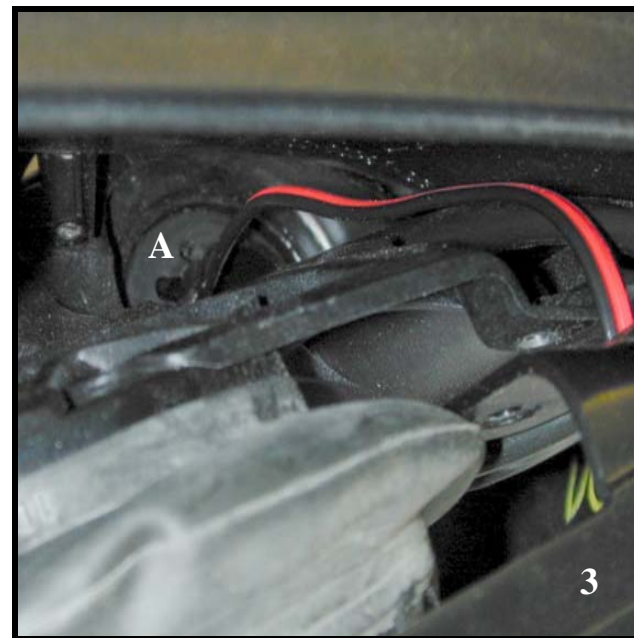


Warning! Be sure to wear safety glasses during this operation as there is the potential for broken glass. Sturdy gloves are recommended.

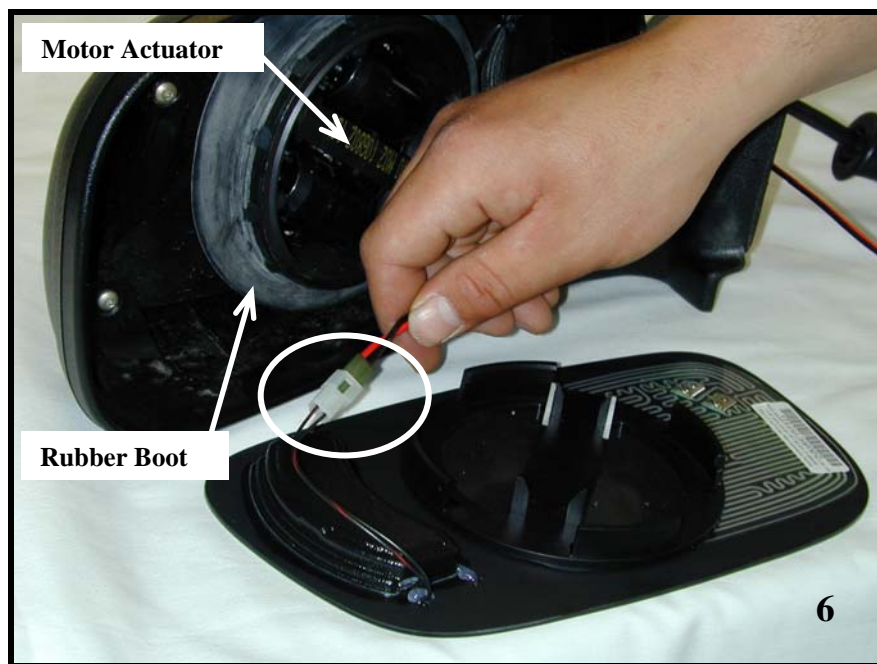
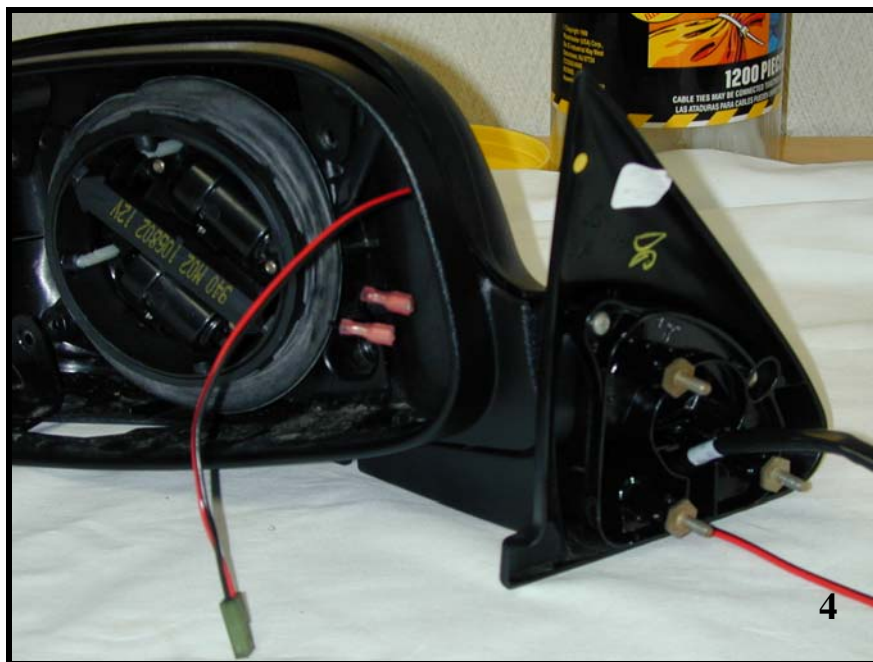
1. Place the mirror housing on a, cloth covered, level surface. Push on the outer edge of the mirror to manually pivot it fully outward so a small pry bar can be inserted under its inner edge. Apply pressure with the pry bar until the mirror backing plate begins to unsnap from the motor. Move the pry bar around the mirror and pry again until the mirror backing plate further unsnaps from the motor. Pull the mirror off of the motor.

(If you have heated mirrors, disconnect the heater wires from the heater terminals at this time.)

2. Using a T-27 torx screw, unscrew the (4) screws (A,B,C,D) as shown.
3. Move the mirror housing cover back slightly and insert the end of the *Signal*[®] mirror wire harness that has no connector into wire passage (A) as shown.



Mirror Replacement Continued

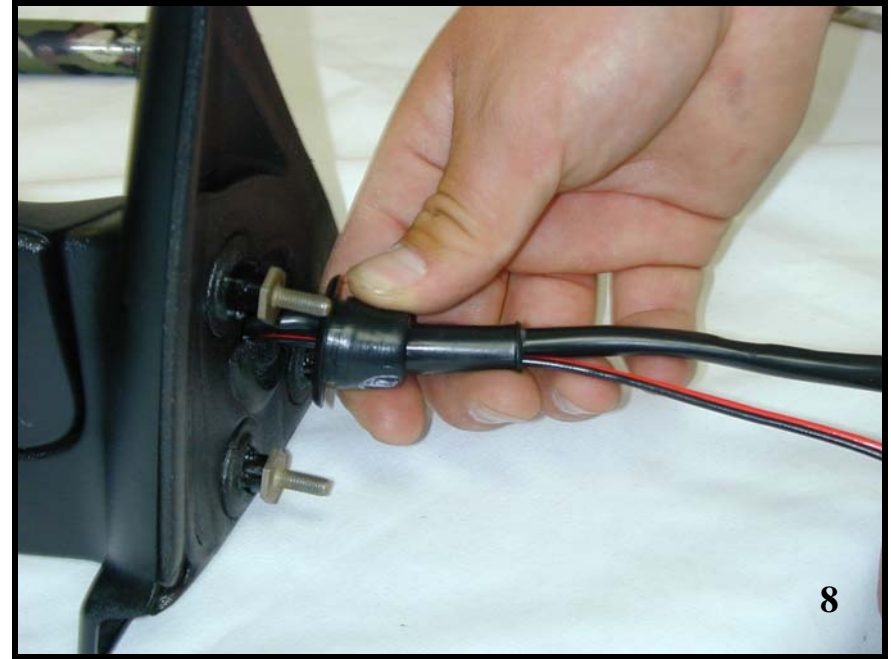


4. Unsnap the access panel at the bottom of the mirror with a small screw driver. Remove the rubber boot and carefully pull back the foam insulation to reveal wire routing passage. Remove the strain relief clip and push down on the motor controller harness to make room for the *Signal*® mirror wire harness. Use a 90° pick to guide and pull the *Signal*® mirror wire harness through leaving approximately 6 inches of slack near the motor.
5. Guide the *Signal*® mirror wire harness alongside the OE motor controller harness and replace the strain relief clip. Replace the access panel and the foam insulation.
6. For both driver and passenger side mirrors, remove the rubber boot around the motor actuator PRIOR to installing the *Signal*® mirror into the mirror housing. **NOTE: Permanent removal of rubber boot, by pulling it over the motor, is required for this application and will not negatively affect operation or durability, per the mirror motor manufacturer.** Connect the *Signal*® mirror wire harness to the *Signal*® mirror as shown. (If you have heated mirrors, reconnect the heater wires to the heater terminals at this time.)

Mirror Replacement Continued

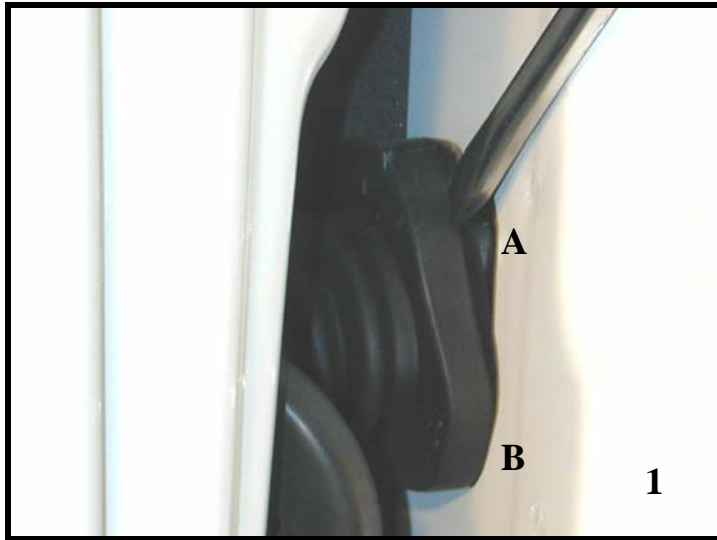


7. Place the *Signal*® mirror over the motor puck. Place the palm of your hand on the center of the glass and press firmly until you hear the snaps engage onto the motor puck. Press on the top, bottom and both sides of the mirror to ensure complete attachment to the motor puck. (Mirror should be pivoted through its full range of travel during this step.)

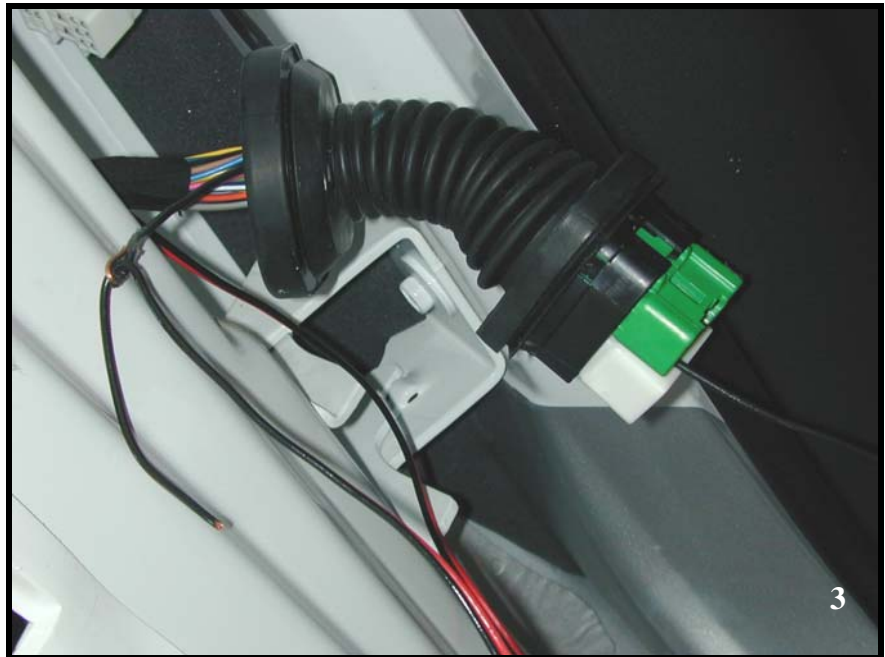


8. Replace Rubber boot as shown. Feed wires into door and reconnect rubber boot to door. Mount the mirror housing onto door using the (3) nuts.

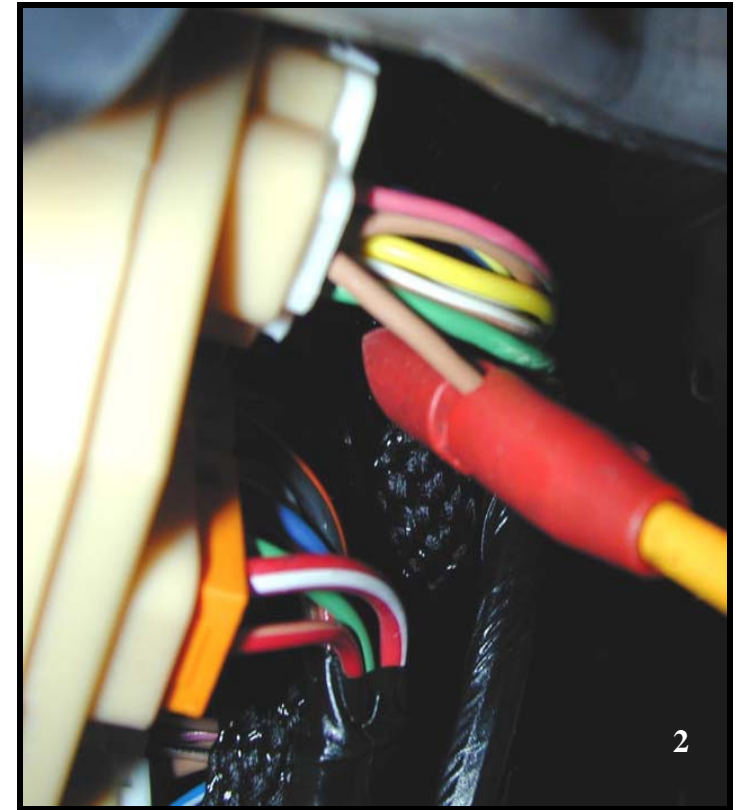
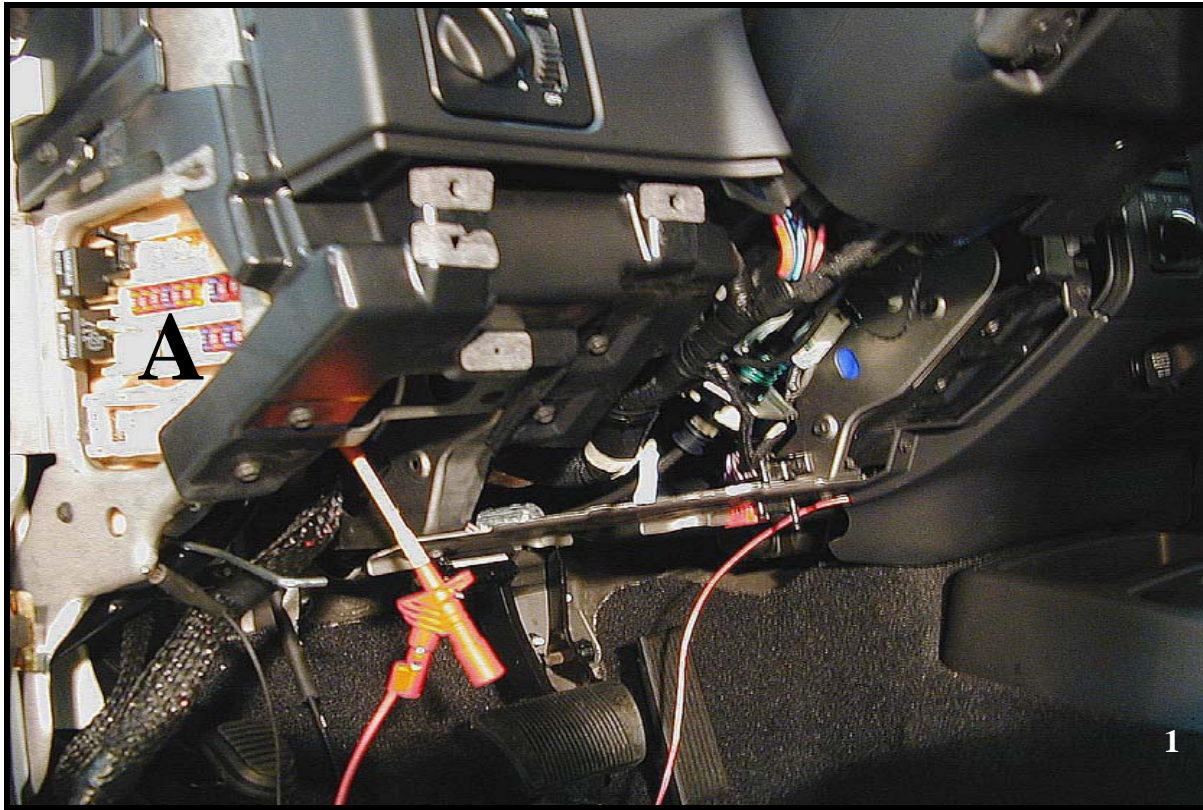
Wiring



1. Remove the rubber boot between the door frame and the vehicle frame. On the door frame side, use your fingers to push the rubber boot in and pull the rubber boot out. On the vehicle frame side, you may need a flat screw driver to push the snaps (A,B) in and up to release the engagement of the snaps to the frame.
2. Fish the *Signal*® mirror wire harness through the door frame and out the access hole vacated by the removal of the rubber boot. **IMPORTANT: Be sure to run harness around window track. Not doing so could result in a cut or damaged wire. Also watch for any rough edges, moving parts (i.e. Parking brake). If insulation is damaged during installation, it could result in a short, which could cause a number of problems.**
3. Using a gopher wire, fish the *Signal*® mirror wire harness through the rubber boot, between the connectors, and into the vehicle. Replace the rubber boot. (Note: The kick plate covering the emergency brake will need to be removed in order to facilitate wire routing.) Reconnect door lock, window controls, and door panel.



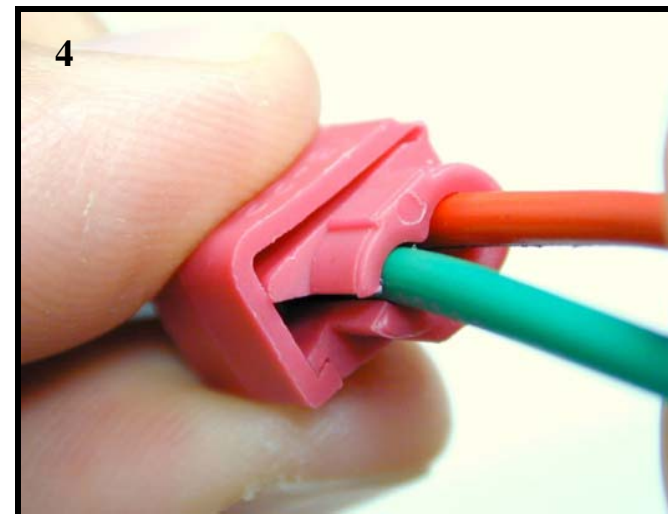
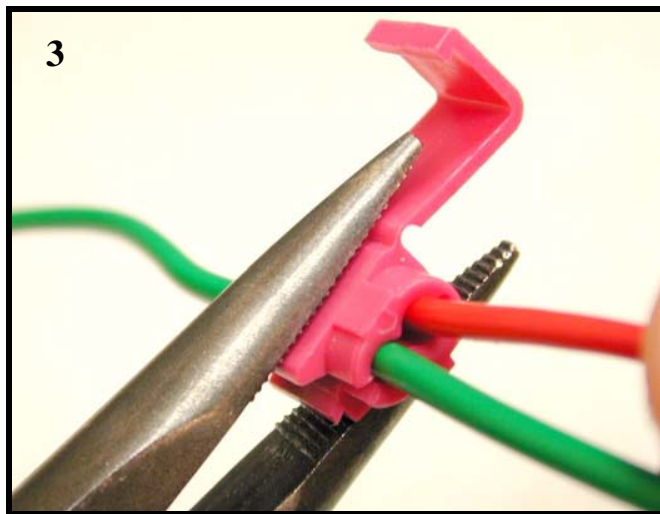
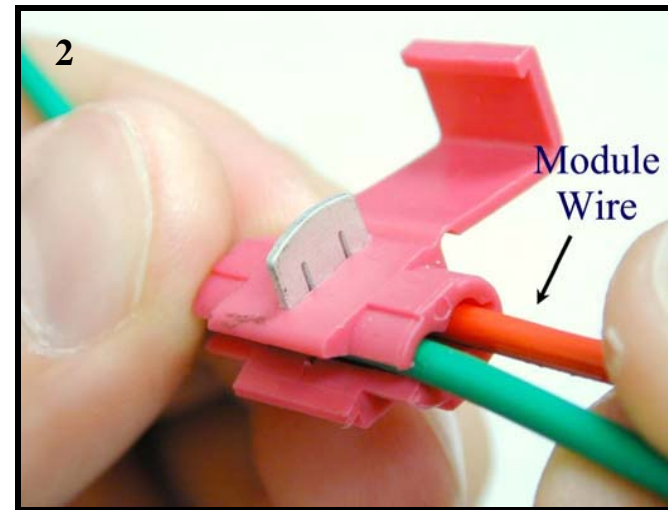
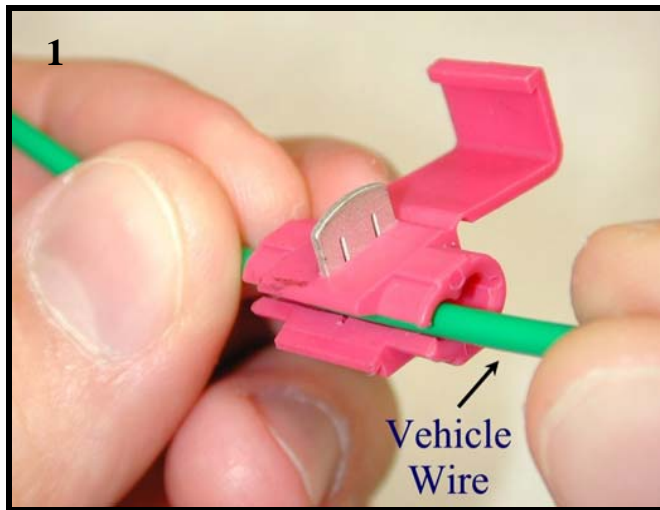
Wire Identification



1. Repeat all of the previous steps to replace the factory mirror on the passenger side door with the new *Signal*[®] mirror.

NOTE: The vehicle's electrical wiring for the driver side mirror and passenger side mirror is located directly behind the fuse box (A). In order to get to the wires, the kick panel, side panel, and front panel will need to be removed as shown. Passenger side *Signal*[®] mirror wire harness needs to run all the way across the front dash board to the fuse box on the driver side.

2. Guide the new wire harnesses from both sides of the vehicle to the electrical wiring. Locate the LIGHT GREEN wire from behind the fuse box. Turn the ignition key so that electrical power is on and activate the driver side turn indicator. Probe the wire with the wire tester to verify that flashing turn indicator power is present. Label that wire as 'driver side turn'. Locate the TAN wire from behind the fuse box. Activate the passenger side turn indicator and probe the wire with the wire tester to verify that flashing turn indicator power is present. Label that wire as 'passenger side turn'.



USE THE INCLUDED WIRE TAPS AND FOLLOW THE FOUR STEPS ABOVE TO SPLICE INTO THE TURN INDICATOR WIRES

1. Make sure the harnesses are routed securely to the wire bundle and enough slack is left for splicing.
2. Splice the RED wire from the driver side harness into the light green wire previously labeled 'driver side turn'.
3. Splice the RED wire from the passenger side harness into the tan wire previously labeled 'passenger side turn'.
4. Strip and twist together the ends of the black wires from both harnesses. Crimp them together in the supplied ring connector and ground to a suitable nearby location on the metal framework of the vehicle.
5. Activate each turn indicator to verify that the *Signal*® mirrors are working.
6. Replace all panels, door accessories, insulation, plastic moldings, and trim pieces.