



Signal® Mirror Installation Instructions

Lincoln Navigator 1998-2001



THE safety accessory of the 21st Century.™

P/N 210-0014-0

Rev B2 (6-24-04), GG

© 2002 Muth Mirror Systems, LLC.

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
- 2 ring connectors
- 1 instruction manual

REQUIRED TOOLS:

- Ratchet with extension or ratcheting screwdriver
- 10mm socket
- 8mm socket
- Small slotted screwdriver
- Medium Philips screwdriver
- Needle nose pliers
- Small pry bar
- Heater Gun
- Gopher wire
- Electrical tape
- Wire crimper and stripper
- 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

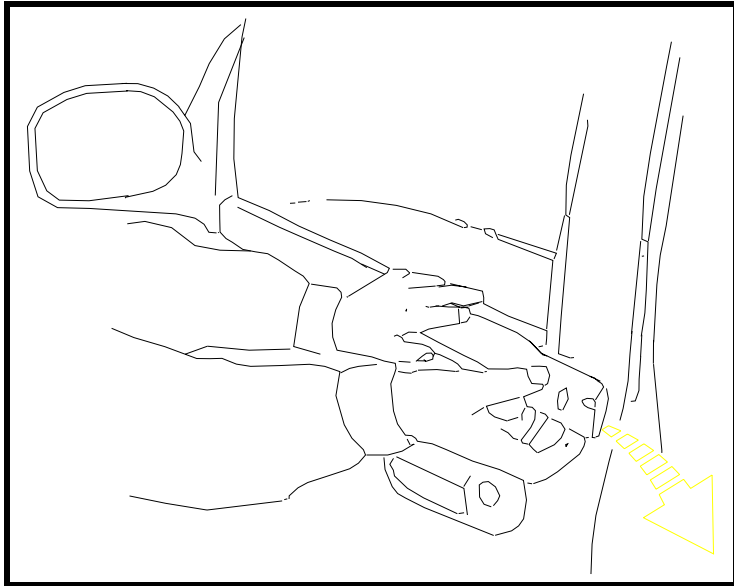
Or via E-mail: techsupport@muthco.com

Mirror Housing Removal

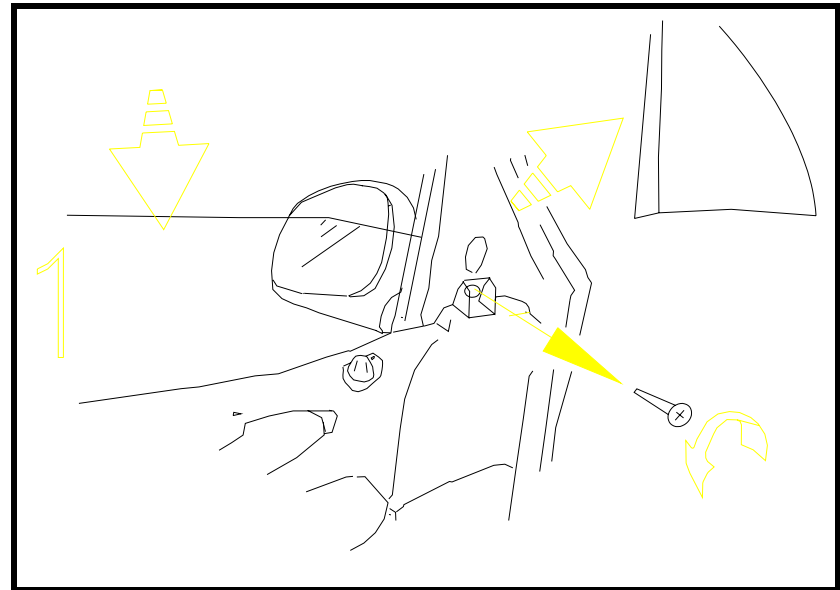
In addition to the kit materials supplied, the exterior window trim strips are also required since these will probably be broken or damaged during the mirror removal process. These can be purchased from your local Ford dealer and will likely have the following part numbers:

Left hand: F85Z7821452 AB

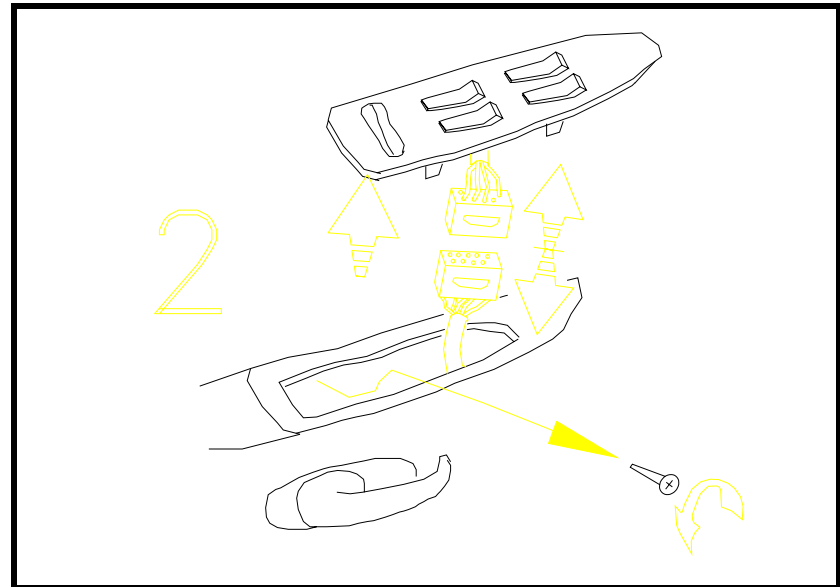
Right Hand: F85Z7821453 AB



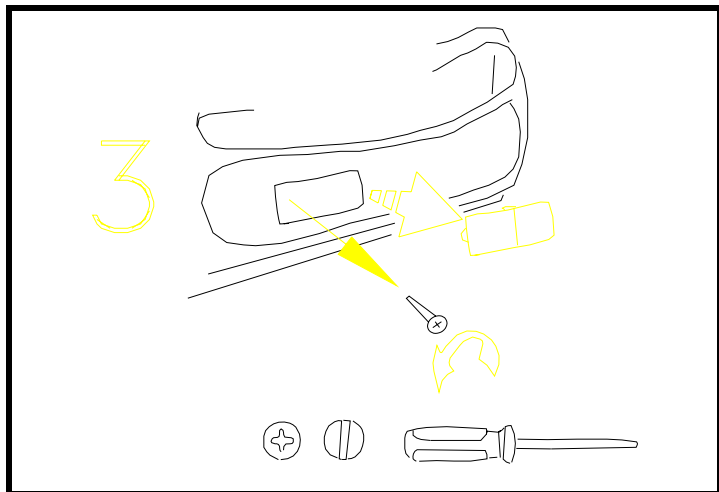
2. Unsnap and unplug the door lock and window control panel and remove the screw beneath it.



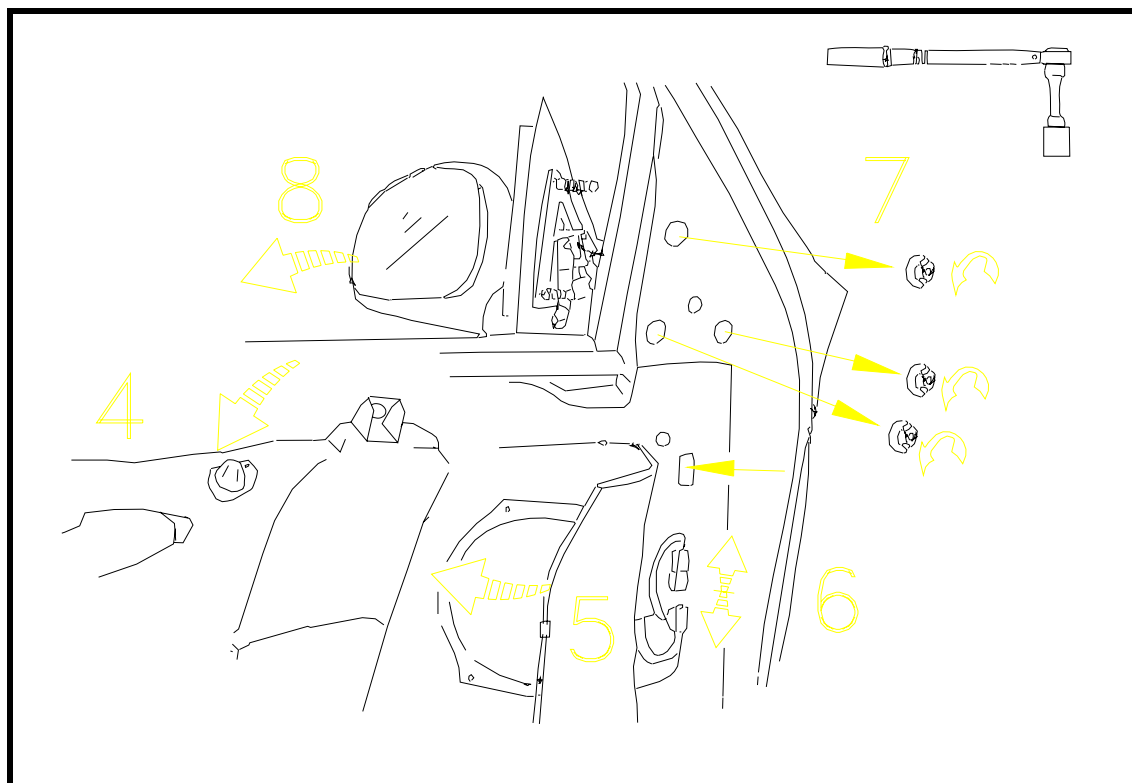
- 1) Lower the window and unsnap triangular molding from the mirror area inside the door. Remove the exposed screw from the door panel.



Mirror Housing Removal

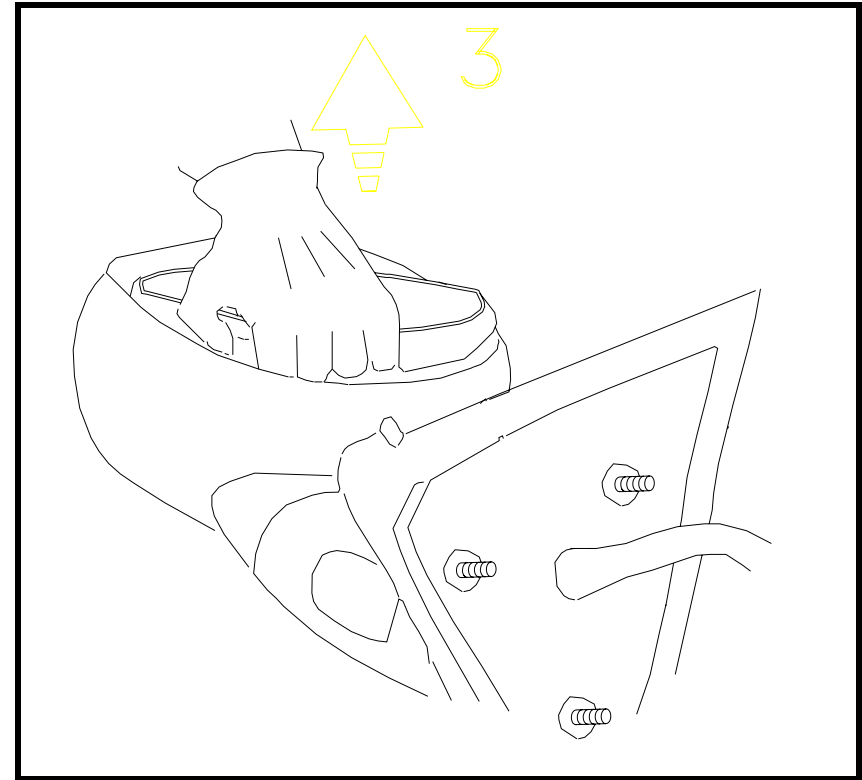
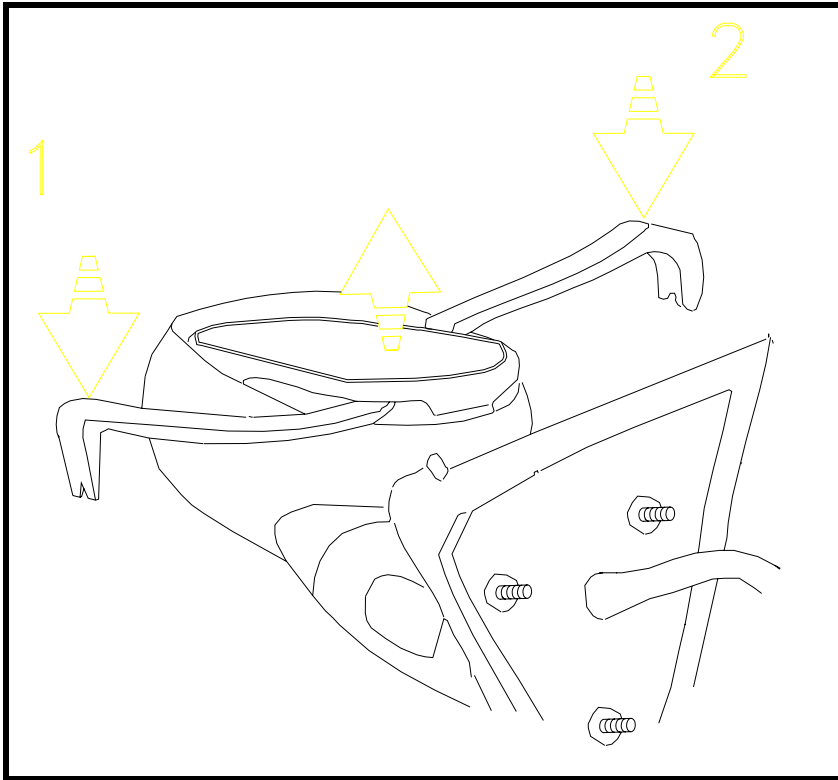


3. Unsnap the door light lens and remove the screw from behind it. Lift the door panel up and away from the door and remove the bulb from its socket.



4. Remove the door panel.
5. Pull back the foam insulation on the door to expose the mirror wires.
6. Disconnect the mirror harness and snap it out of the door.
7. Secure mirror with one hand. Proceed cautiously to avoid dropping articles into the door panel. Remove the 3 mirror mounting nuts.
8. Remove the mirror from the door.

Mirror Replacement



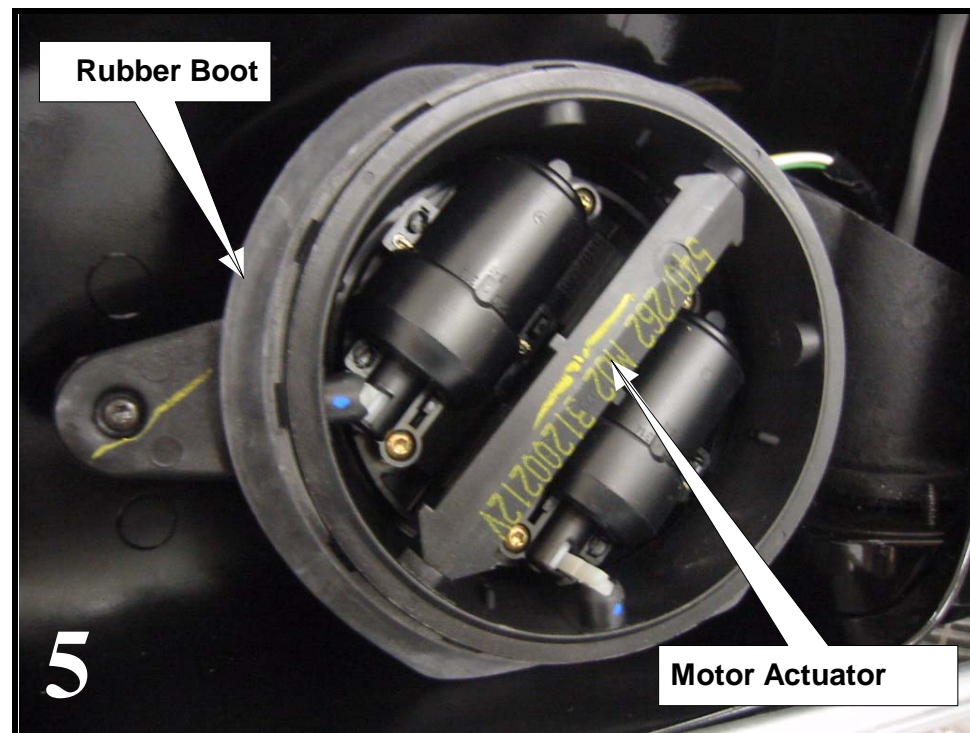
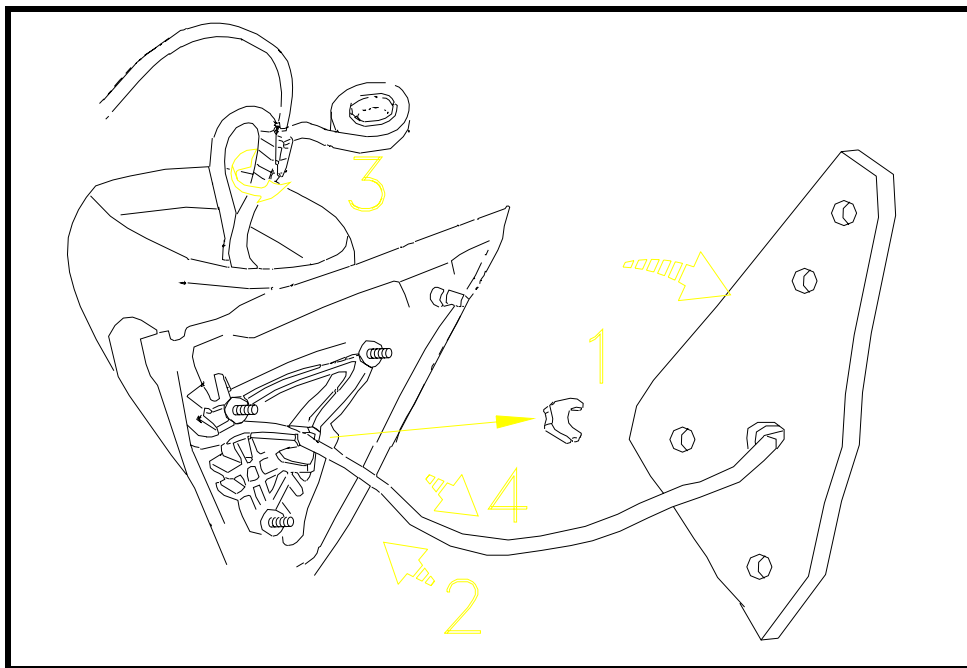
Caution: Safety glasses and sturdy gloves are recommended for the following steps.

1. Place the mirror housing on a clean 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 gentle pressure with the pry bar until the mirror backing plate begins to unsnap from the motor.
2. Move the pry bar around the mirror and pry again until the mirror backing plate further unsnaps from the motor.

3. Pull the mirror off of the motor. Some force may be required to free any remaining snaps but it should not be excessive. If you can not remove the mirror without excessive force, apply the pry bar further around its edge to loosen more snaps. Then try again.

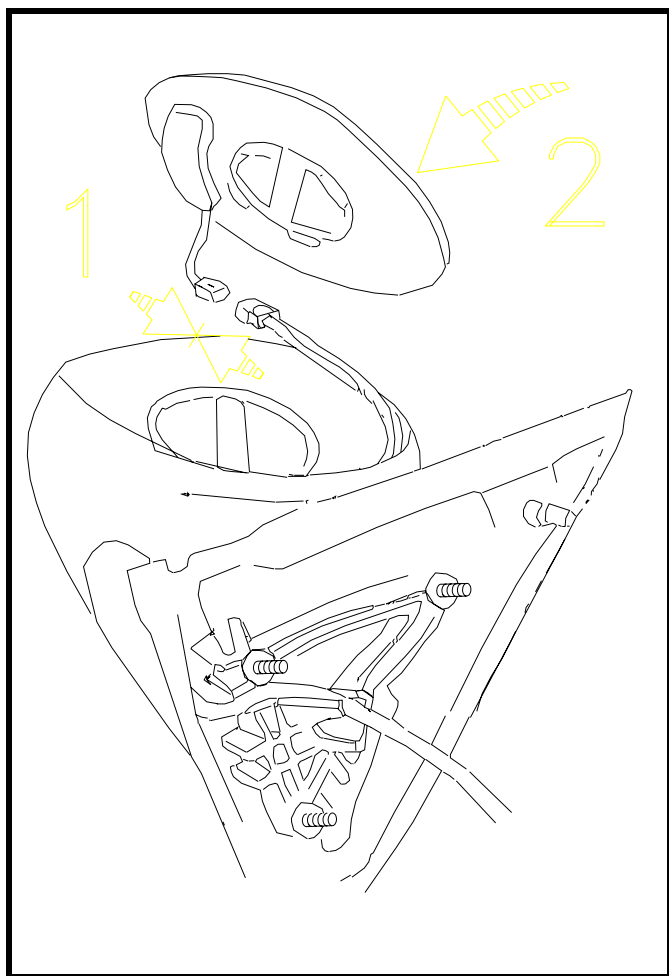
NOTE: If you have heated mirrors disconnect the wires when you remove the mirror. The polarity for the heaters is reversible so it is not necessary to label the wires.

Mirror Replacement Continues

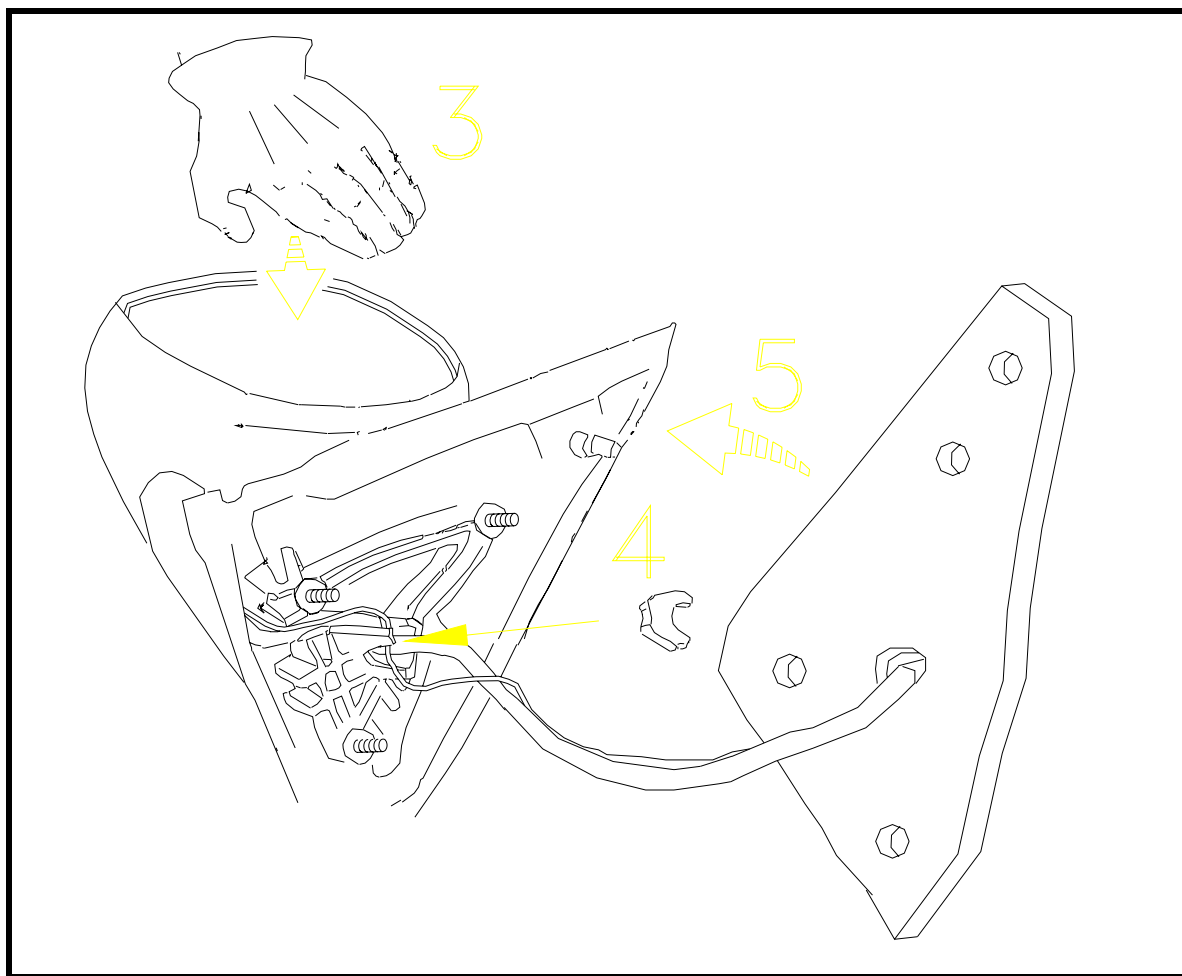


1. Remove the foam insulation from the mirror mounting structure and pry loose the strain relief as shown.
2. Push and pull the mirror control harness back through the wire routing passage so that there are a few inches of slack inside the housing.
3. Locate the correct *Signal*® mirror harness (short for driver side and long for passenger side) and tape the end with no connector to the mirror control harness.
4. Pull the harnesses back through the routing passage. Remove the tape and pull the *Signal*® mirror harness through so that about 6 inches of slack is left near the motor pack.
- 5) 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.**

Mirror Replacement Continues



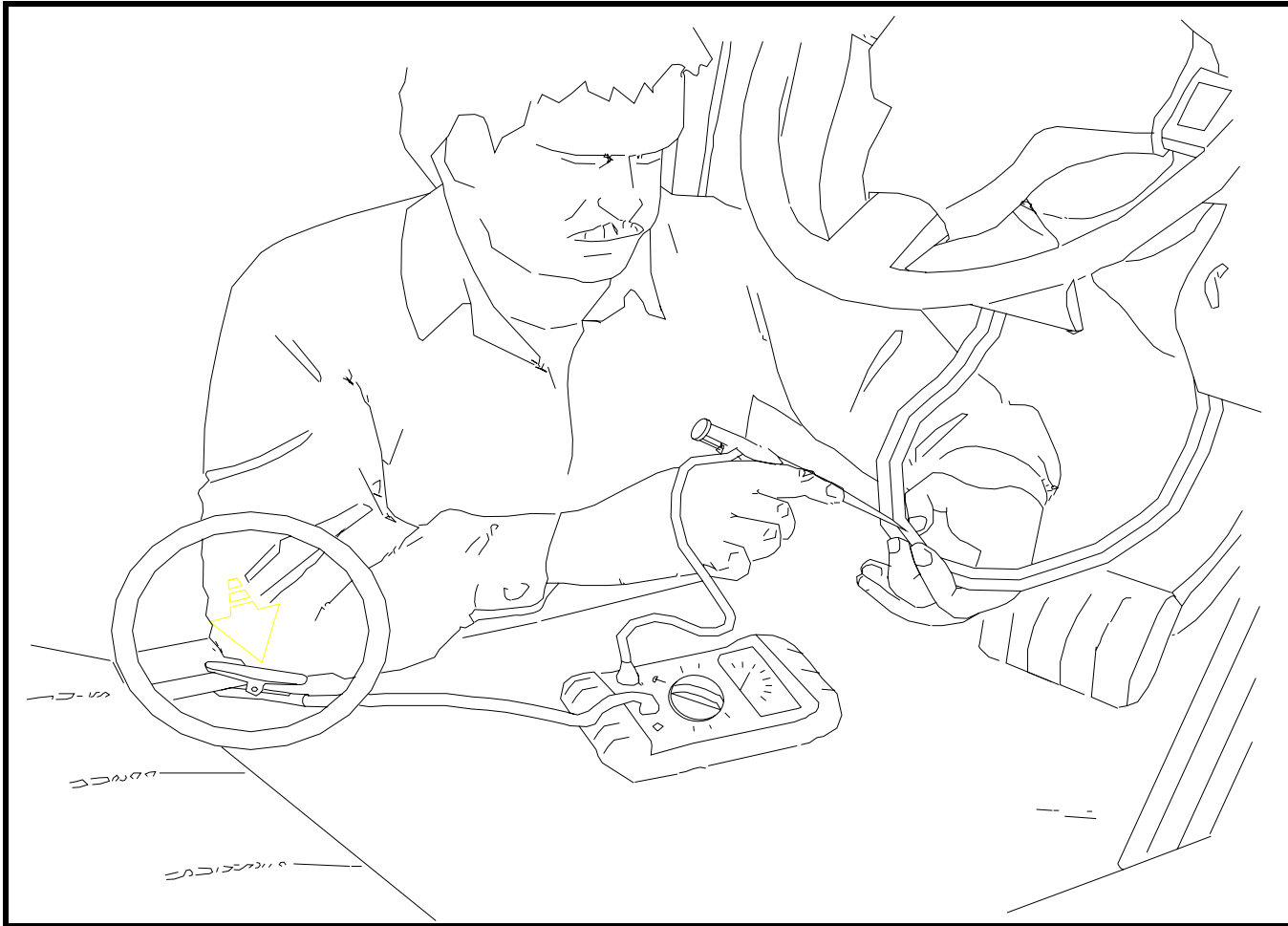
1. Connect the *Signal*® mirror leads to the harness. (If you have heated mirrors, connect the wires to the heater terminals at this time.)
2. Place the *Signal*® mirror over the motor puck.



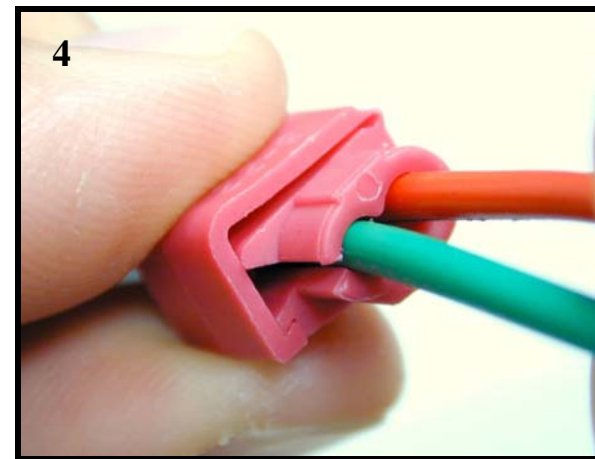
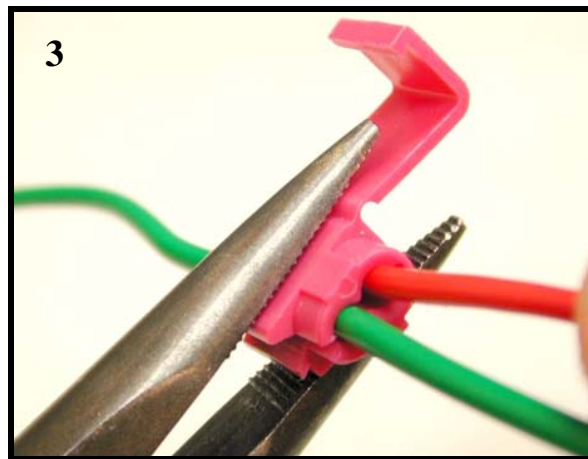
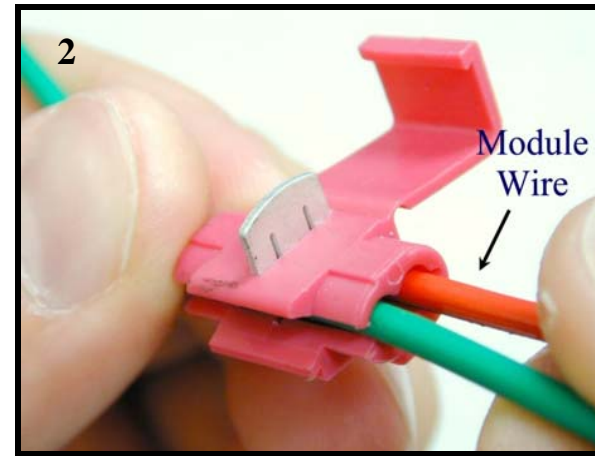
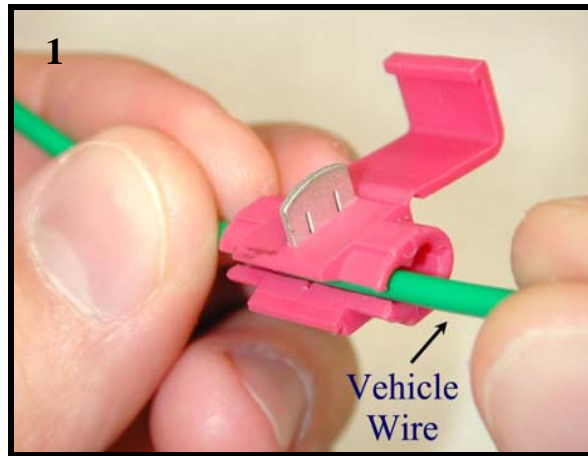
3. Place the palm of your hand on the center of the glass and press firmly until you hear the snaps engage onto the motor puck. Press on the top, bottom and both sides of the mirror to ensure complete attachment to the motor puck. (Mirror should be pivoted through its full range of travel during this step.)
4. Replace the strain relief, route the wires through the foam pad.
5. Replace the pad.

1. Feed wires into door and set mirror in place.
2. Attach mirror with original 3 nuts. Do not over tighten.
3. Pass *Signal*[®] mirror harness through the rubber boot between the door and the vehicle.

Wiring



1. Remove the lower dash panels to access the smaller bundle of wires below the steering column. Locate the **Green with White stripe wire**. Turn the ignition key so that electrical power is on and activate the driver side turn indicator. Probe the wire to verify that flashing turn indicator power is present. Label that wire as DRIVER SIDE TURN.
2. Locate the **White with Blue stripe wire** within the same bundle of wires. Activate the passenger side turn indicator and probe the wire 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 under the dash and enough slack is left for splicing.
2. Splice the RED wire from the driver side harness into the **Green with White stripe wire** previously labeled 'driver side turn'.
3. Splice the RED wire from the passenger side harness into the **White with Blue stripe wire** previously labeled 'passenger side turn'.
4. Strip and twist together the ends of the black wires from each harness. 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 any door accessories, door panels, plastic moldings, and trim pieces.