



Signal[®] Mirror Installation Instructions

Chrysler PT Cruiser 2001-2002



THE safety accessory of the 21st Century.™

P/N 210-0065-0

Rev C1 (7-1-04), 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
- 2 ring connectors
- 2 finishing plugs
- 1 instruction manual
- 1 information card
- 1 warranty card
- 1 sticker

REQUIRED TOOLS:

- Ratchet with extension or ratcheting screwdriver
- 10mm socket, Small slotted screwdriver
- Medium Philips screwdriver
- Small pry bar, Center punch
- Gopher wire, Aluminum Rod
- Torx wrench
- Drill, $\frac{3}{8}$ " drill bit
- Wire crimper and stripper
- Masking tape
- Electrical tape
- Multimeter
- Sturdy gloves
- Safety glasses or goggles
- 90° pick

Please read instructions prior to installation.

PROBLEMS OR QUESTIONS?

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

1-800-844-6616

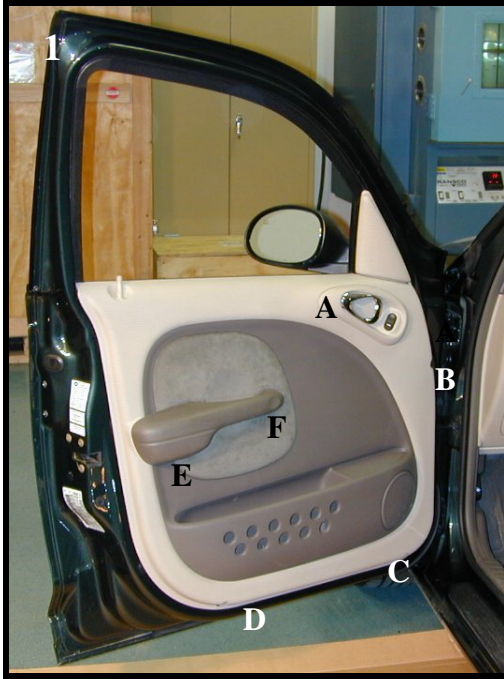
Monday through Friday
Between 8:00 a.m. and 5:00 p.m. CST

Or through the Muth web site:

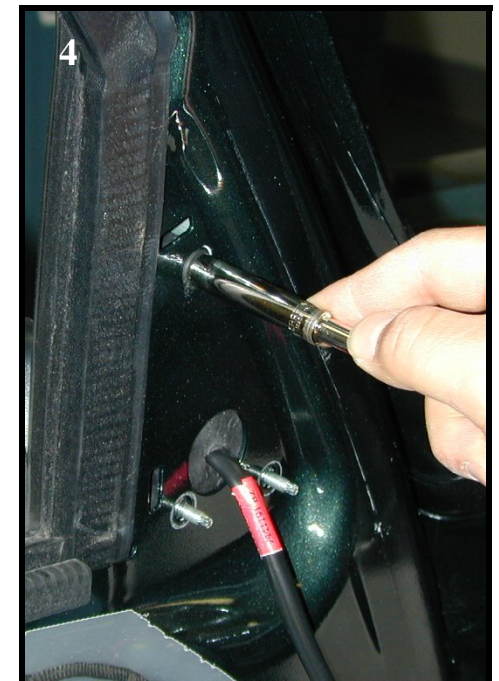
www.muthco.com

Or via E-mail: techsupport@muthco.com

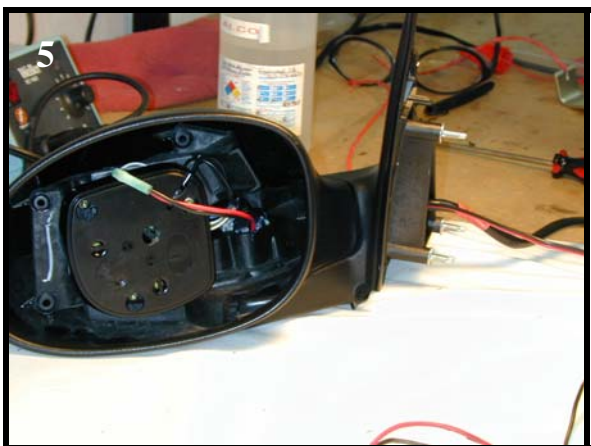
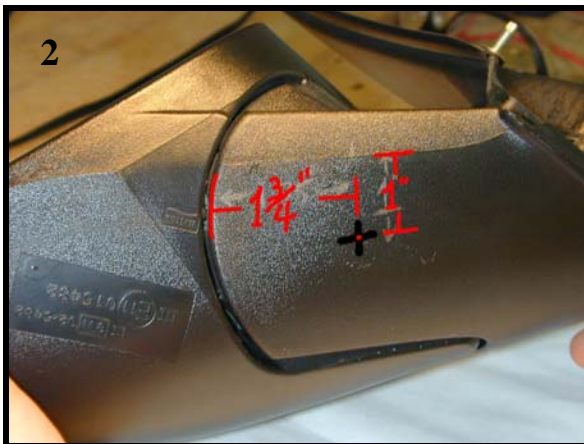
Mirror Housing Removal



1. Open the driver side door and lower the window. Remove the (4) screws at location A through D and the (2) torx screws at location E and F.
2. Remove mirror mounting cover.
3. Carefully unsnap fasteners and pull the door panel out as shown. Disconnect door latch mechanism and power lock harness. Remove door panel from door frame.
4. Remove nuts, disconnect power mirror harness, and remove mirror housing from door.



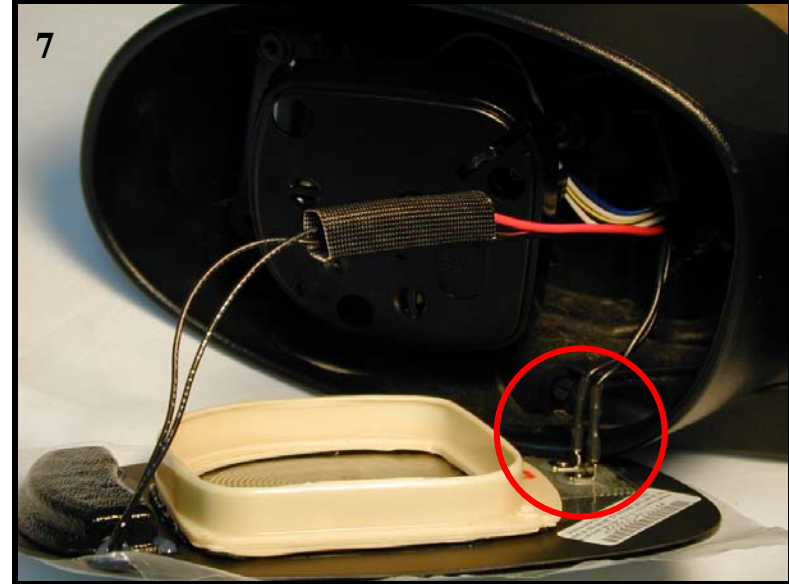
Mirror Replacement



Warning: Safety glass or goggle is needed for the following steps

1. On a cloth covered bench top, lay the housing on its side. Remove grommet from mirror housing sail. From the top inboard corner of the mirror housing, insert a small pry bar and slowly pry the OE mirror out of the mirror housing as shown. Disconnect heater terminals and remove OE mirror from mirror housing.
2. Turn the mirror housing over until you are looking at the bottom of the housing. Measure 1 3/4" from the curvature line marking and 1" down from the straight line marking. Mark it with an 'X' and center punch it as shown.
3. Using a 3/8" drill bit, slowly drill a hole through. Deburr the hole if necessary. **Caution: Drill the hole slowly and stop as soon as you just pass through. Be careful not to drill into the OE cable inside or damage the mirror housing.**
4. Starting from the mounting side of the housing, insert a fish wire alongside the OE cable until you see it through the newly made hole. Use a 90° pick or a flat screw driver, guide the fish wire up and into the housing as shown.
5. Insert the open end of the *Signal*® mirror wire harness into the fish wire and pull the *Signal*® mirror wire harness through as shown. **Advice: It may be easier if you splice the *Signal*® mirror wire harness about 1/3 of the way and route each wire through individually. When doing this, be sure to route the (2) wires alongside one another so they can be taped back together on the other side.** Insert finishing plug into the drilled hole and replace grommet.

Mirror Replacement Continued

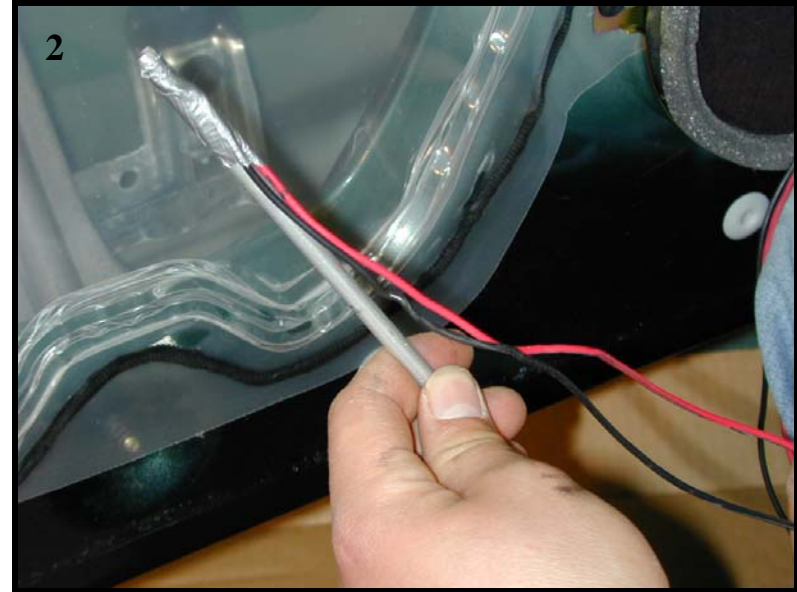
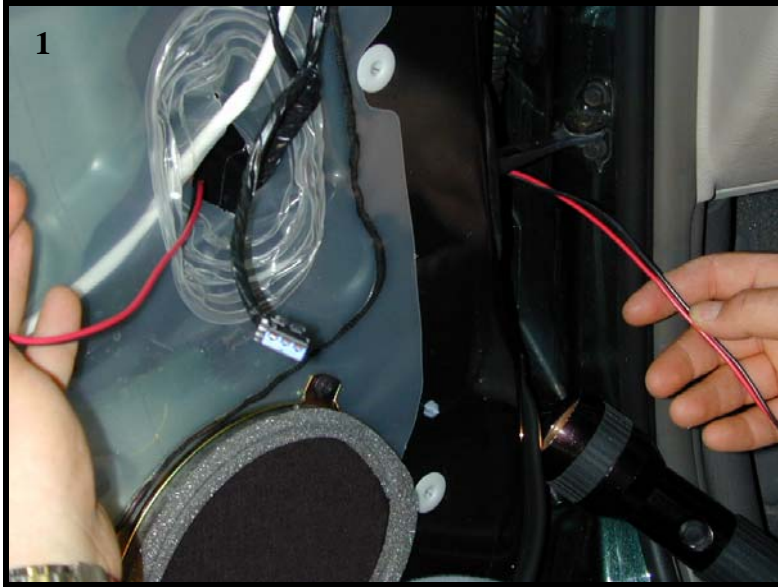


6. Take the 2" sheathing material and slide over the *Signal*[®] mirror wire harness. Reconnect the *Signal*[®] mirror wire harness connector.

7. Reconnect the OE connectors to the *Signal*[®] mirror heater terminals as shown.

8. Align the *Signal*[®] mirror motor mount with mirror housing motor. With a sturdy glove and your fingers, firmly press down on the *Signal*[®] mirror until it snaps into position. Press down on all sides of the *Signal*[®] mirror to ensure proper engagement. Rotate in every direction to ensure proper fit, form, and function. Reattach mirror housing to the door and reconnect OE power mirror harness.

Wiring



1. Push in and remove rubber boot. Route *Signal*[®] mirror wire harness through the door frame and out of the rubber boot access hole. **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.**

2. Tape the *Signal*[®] mirror wire harness to an aluminum rod as shown.

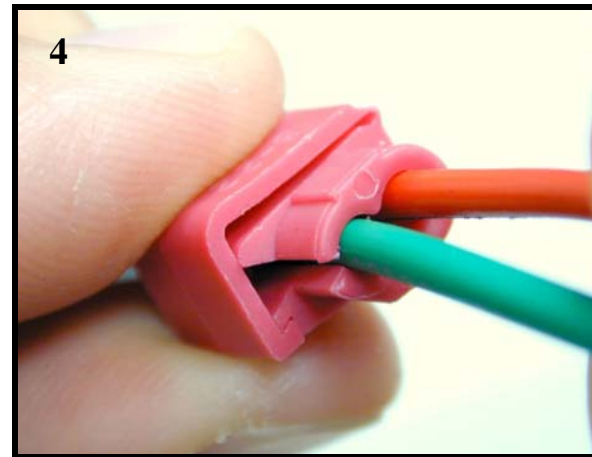
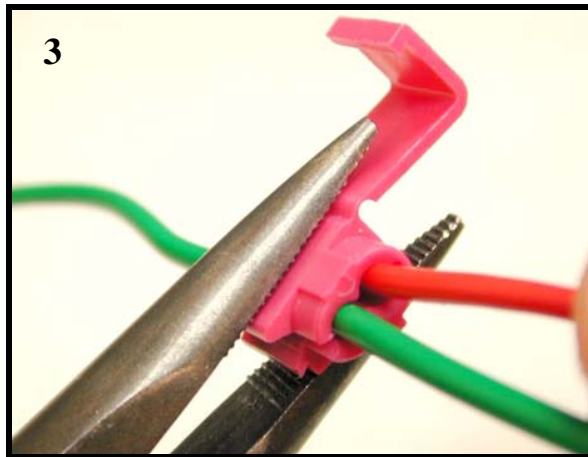
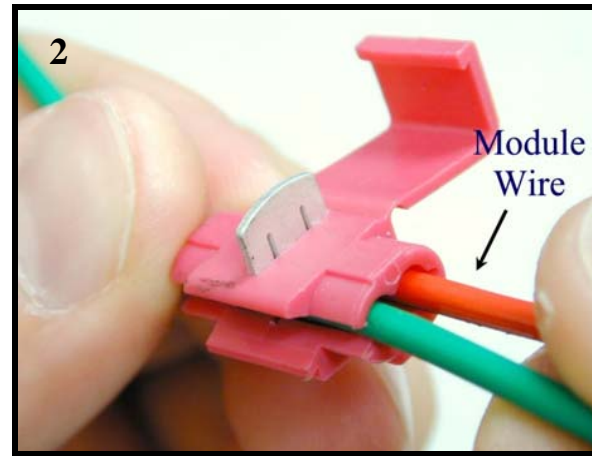
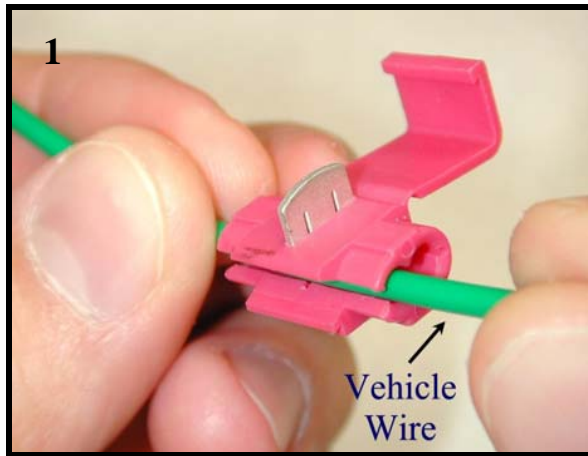
3. Insert the aluminum rod through the rubber boot as shown. Unwrap the tape to release the *Signal*[®] mirror wire harness from the rod. Pull the *Signal*[®] mirror wire harness through the rubber boot and pass it into the vehicle. Remove any slack in the wire and replace the rubber boot.

Wire Identification & Wire Grounding



1. Repeat all of the previous steps to replace the factory mirror on the passenger side door with the new *Signal*[®] mirror. Wiring for driver side turn indicator is located in the driver side kick panel. Carefully slice the tape that covers the large bundle of wires which are routed to the back of the vehicle. Locate a **GREEN WIRE WITH A BROWN STRIPE** and test to make sure it is the turn/hazard only. You should read a pulsing overload that is consistent with the vehicles front, rear, and interior turn indicators. Label that wire as 'driver side turn'
2. Wiring for the passenger side turn indicator is located in the passenger side kick panel. Carefully slice the tape that covers the large bundle of wires which are routed to the back of the vehicle. Here you will locate a **BROWN WIRE WITH A RED STRIPE**. Test that wire to ensure it is the correct wire. Label that wire as 'passenger side turn'.

Use the (2) supplied ring connectors to ground each of the black wires, from the *Signal*[®] mirror wire harness, to a suitable ground connection.



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(s) and enough slack is left for splicing.
2. Tap the RED wire from the driver side harness into the vehicle wire previously labeled 'driver side turn'.
3. Tap the RED wire from the passenger side harness into the vehicle wire previously labeled 'passenger side turn'.
4. Activate each turn indicator to verify that the *Signal*[®] mirrors are working.
5. Replace both door panels, door accessories, insulation, plastic moldings, and trim pieces.