



Signal[®] Mirror Installation Instructions

1997 - 2004 Chevy Corvette C5



THE safety accessory of the 21st Century.[™]

P/N 210-0107-0

Rev. A (4/4/05), BTV

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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
1 instruction manual

REQUIRED TOOLS:

Ratchet with extension or ratcheting screwdriver
10mm socket
Socket wrench
T-27 Torx wrench
Slotted screwdriver
Phillip screwdriver
Small pry bar
Gopher wire
Electrical tape
Wire crimper and stripper
Needle nose pliers
Multimeter or wire tester
Sturdy gloves
Safety glasses or goggles
Utility knife

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:

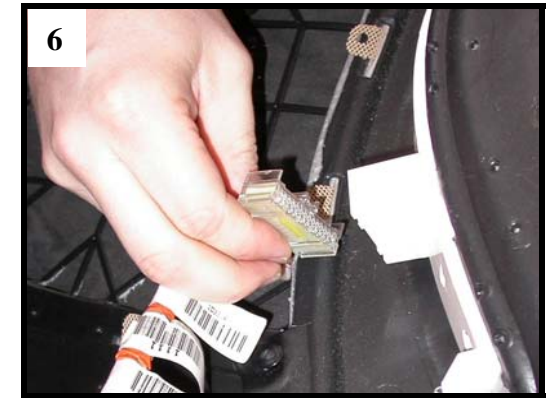
www.muthco.com

Or via E-mail: techsupport@muthco.com

Door Panel Removal



1. Start with opening the driver's side door and lowering the window.
2. Using a small slotted screwdriver, carefully pry and push down on the locking tab to remove the small plastic cover behind door handle.
3. Remove the (2) screws behind door handle using a T-27 Torx wrench.



4. Carefully pry around and remove plastic cover on the door lever.
5. With a pry bar, starting from the lower outboard door frame, carefully pry around door panel until it disengages from the door frame. Hold the door panel away from the door slightly.
6. Disconnect panel control console wiring connector behind door panel and remove door panel.

Housing Removal

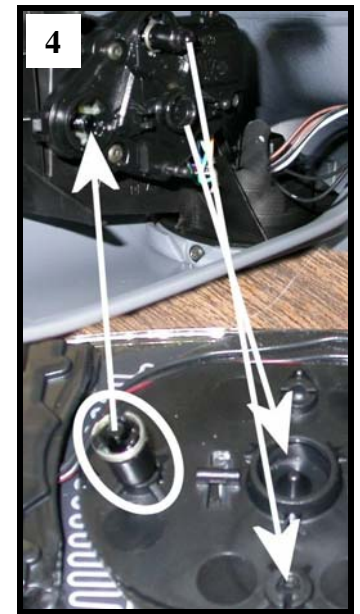
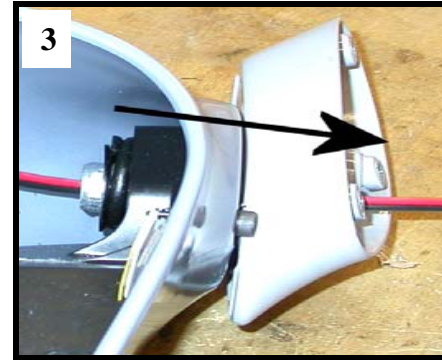


1. Using a 7mm socket wrench, remove (7) screws holding the speakers in place.
2. Disconnect speaker wiring connection and remove speaker from door frame.
3. Using a Phillips screwdriver, remove the screw located in the upper inboard edge of the door frame.
4. Grab and slide the window felt outboard to disengage it. Remove window felt.
5. Disconnect the mirror wire harness from inside the door. Remove the (3) nuts holding the mirror housing to the door frame by using a 10mm socket wrench. Remove mirror housing from door frame.



Mirror Removal & Replacement

WARNING! Safety glasses and sturdy gloves are recommended for mirror glass replacement.



1. Push down on the lower inboard edge of glass until mirror pivots fully outward. Insert a large flathead screwdriver (pry bar) in between the motor mount and the motor actuator. Carefully pry and twist screwdriver until original mirror pops off. **If heated**, disconnect heater wires from heater terminals and remove mirror. **Note:** During the removal of the original mirror, if motor pins stay attached to the back plate, use “V” end in small pry bar or needle nose pliers to disengage pins from back plate.
2. Carefully place one of the drive pins back into the upper socket on the motor actuator. Align the nub of the drive pin so it points to the round plug in the center of the mirror mount.
3. Using the shorter of the two harnesses from the wiring kit, guide the end without the mating connector into the mirror housing and out through the mirror mount. Pull the *Signal*[®] mirror wire harness thru housing sail leaving about 4” to 6” of the wire harness inside housing. Connect the mating connectors on the new *Signal*[®] mirror and the *Signal*[®] mirror wire harness. **If heated**, reconnect the heater wires to the heater terminals on the back of the new *Signal*[®] mirror. **NOTE:** There is no polarity so the wires may be interchanged. Carefully tuck all wiring behind motor actuator. Not doing so, could result in wiring interfering with mirror travel.
4. Place the other drive pin into the socket closest to the optic module on the motor mount. **CRITICAL:** Align the socket in the center of the *Signal*[®] mirror over the plug on the center of the motor actuator. Align all drive pins to its mating slots.
5. With the palm of your hand, slowly push down on the center of the glass until the new *Signal*[®] mirror snaps into position. Press down on the upper edge and outboard edge of the *Signal*[®] mirror to engage both drive pins in its socket. Press down on all sides to ensure the new *Signal*[®] mirror is fully seated and functional. **WARNING:** Improper installation of the new *Signal*[®] mirror could result in mirror falling off.



Wire Routing

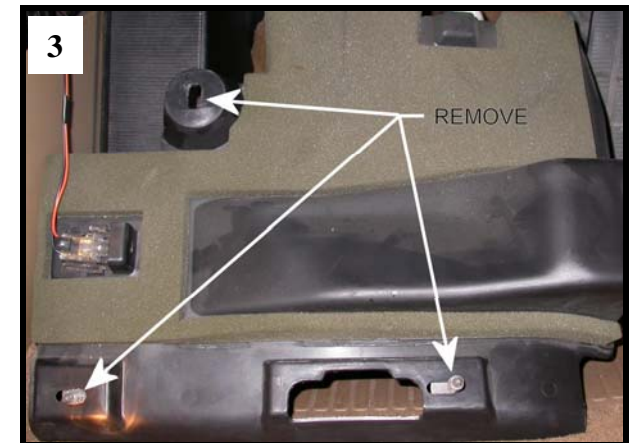
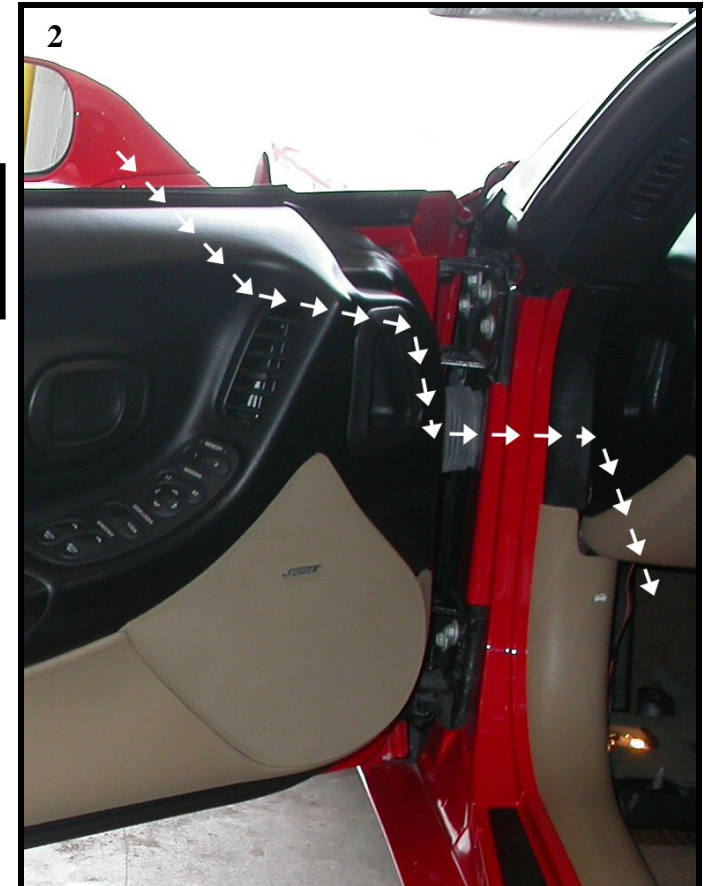


A gopher wire may be used to help ease/assist in these wire routing procedures.

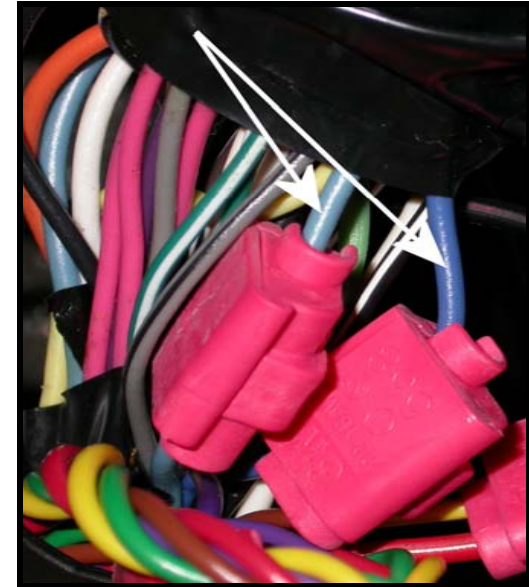
1. Guide the wire harnesses through the opening in the door frame and position the mirror housing assembly on the mirror mount. Attach the mirror housing to the mirror mount with three mirror mounting nuts. **WARNING! Do not over tighten the mirror mounting nuts.**
2. Remove floor trim and kick panel. Push in and pull out the two ends of the rubber grommet between door frame and vehicle frame. Route the *Signal*[®] mirror wire harness inside door frame through rubber grommet and into vehicle – see fig. 2. Gently pull on the *Signal*[®] mirror wire harness to remove any slack during wire routing. **WARNING! When routing wire into vehicle, it is extremely important to not let wire get pinched or crushed at any time. Avoid window track and sharp edges at all times. Not doing so may cause circuit shortage problems down the road.** Replace rubber grommet.

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

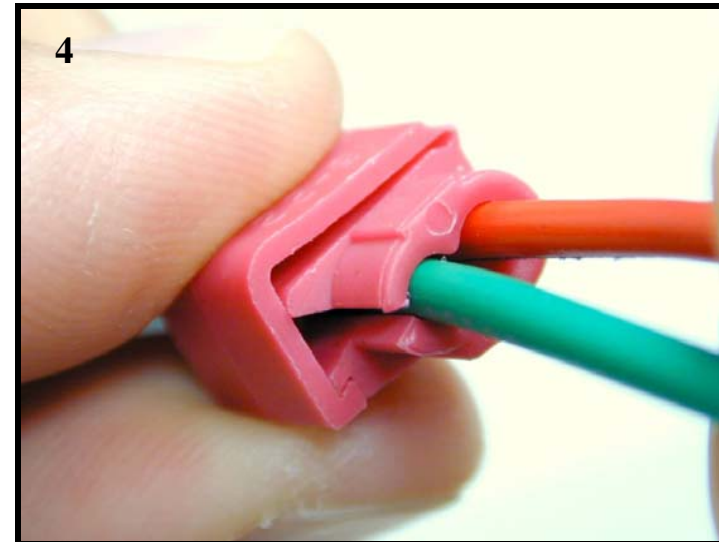
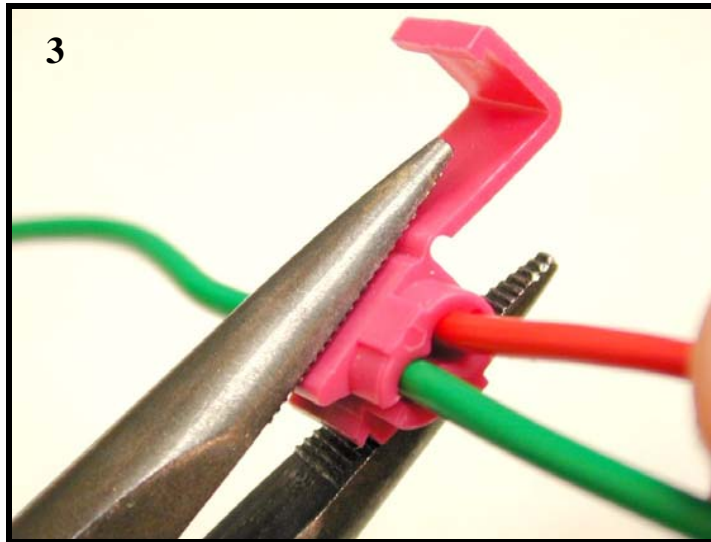
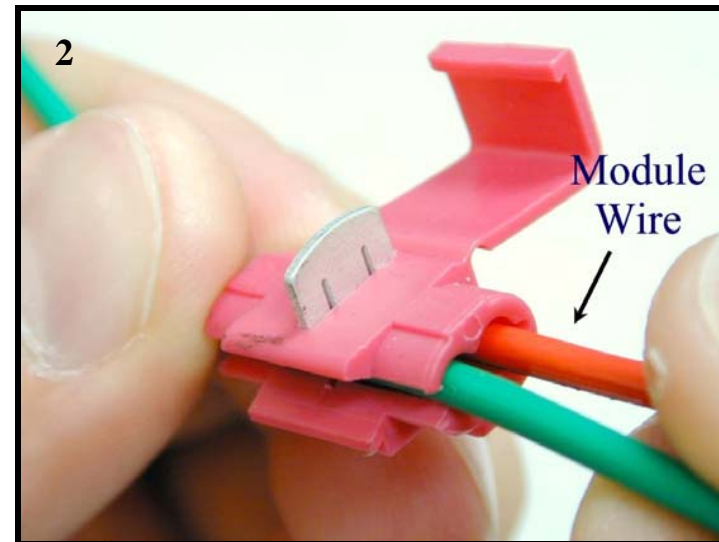
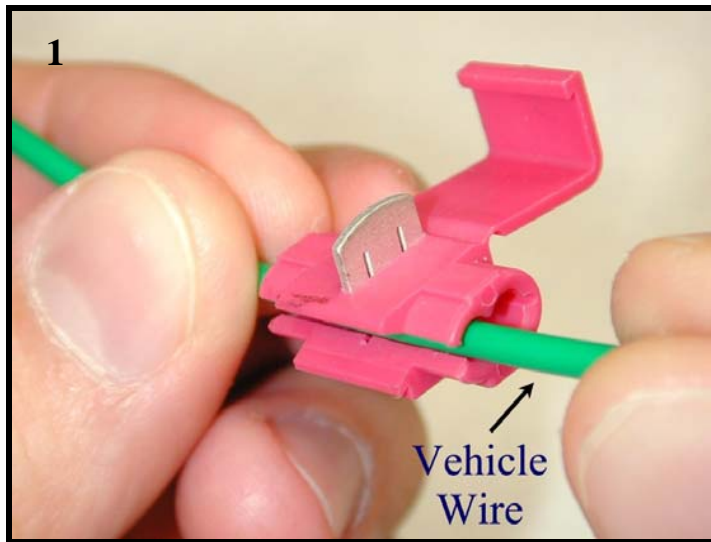
3. Remove the (2) plastic screws and (1) metal retainer from underneath the knee panel. Remove the knee panel to gain access to wiring location.



Wire Identification



The vehicle's electrical wiring is located within the wire bundle behind the knee panel. Locate the LIGHT BLUE wire within the wire bundle. 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 directional power is present. Label that wire as 'driver side indicator'. Locate the DARK BLUE wire and activate the passenger side turn indicator. Probe the wire with the wire tester to verify that flashing turn directional power is present. Label that wire as 'passenger side indicator'.



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

37. Make sure the harnesses are routed securely under the dash and enough slack is left for splicing.
38. Splice the RED wire from the driver side harness into the LIGHT BLUE wire previously labeled 'driver side indicator'.
39. Splice the RED wire from the passenger side harness into the DARK BLUE wire previously labeled 'passenger side indicator'.
40. Locate a suitable grounding source within the driver side kick panel. Cut and strip the black wire from the driver side harness to length. Crimp the driver side black wire to one of the supplied ring connectors and attach it to a suitable grounding location on the metal framework of the vehicle. Repeat for the passenger side black wire.
41. Activate each turn indicator to verify that the *Signal*[®] mirrors are working properly.
42. Reconnect all original wiring. Turn the ignition power to on, check to verify all features are working properly.
43. Replace the plastic door frame moldings, trim, door panels, and all accessories.