



# *Signal*® Mirror Installation Instructions

Wide Angle *Signal*® Mirror



***THE safety accessory of the 21<sup>st</sup> Century.***™

P/N 210-0111-0

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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:**

- 2 Wide Angle *Signal*® Mirrors
- 1 left and 1 right wire harness
- 1 wire sheath
- 4 rubber grommets
- 2 wire taps
- 2 ring connectors
- 1 instruction manual

### **RECOMMENDED TOOLS:**

- Ratchet with extension or ratcheting screwdriver
- Metric and English socket set
- Philips screwdrivers of various sizes
- Slotted screwdriver of various sizes
- Torx drivers of various sizes
- Small pry bar, Small utility knife
- Power drill
- Drill bit assortment including ½”
- Wire crimper and stripper
- Needle nose pliers, Masking tape
- Multimeter, Sturdy gloves
- Safety glasses or goggles
- Window Cleaner



**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](http://www.muthco.com)

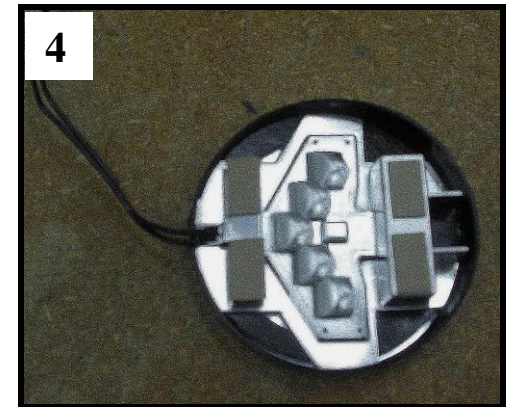
Or via E-mail: [techsupport@muthco.com](mailto:techsupport@muthco.com)

# Mounting and Wiring Your Wide Angle *Signal*® Mirror

1. Put a vertical strip of masking tape in the center of each of your existing side view mirrors to assist with proper alignment of the Wide Angle *Signal*® Mirrors. Remove the passenger side mirror and set on a clean work surface. (It is a good idea to work on the passenger side mirror first in order to fine-tune your installation techniques before working on the more visible driver side mirror). Locate a good mounting spot on the mirror surface for your Wide Angle *Signal*® Mirror. Do not adhere it until completion of the preparation steps listed below. **Note: Wide Angle *Signal*® Mirrors are designed to function best when placed in the lower outboard edge.**



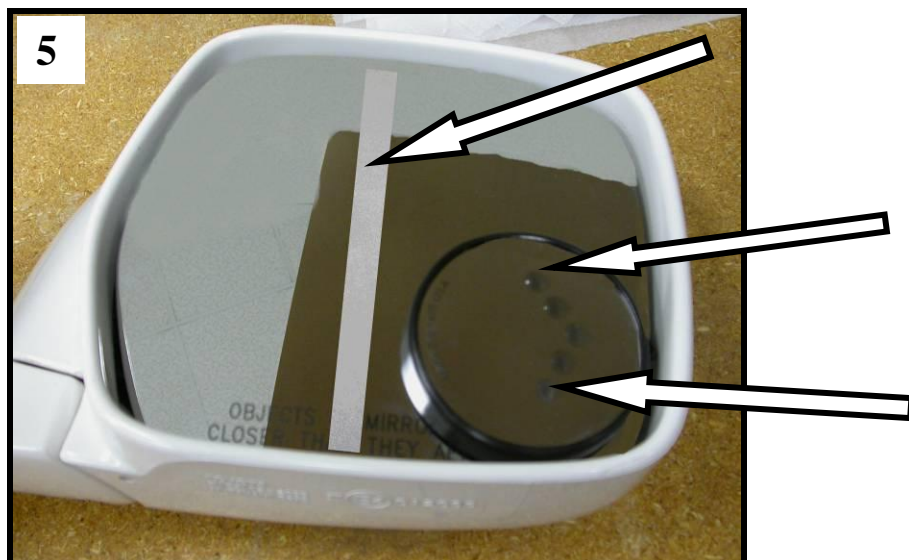
2. **Wire Routing:** Route the longer of the two supplied harnesses through the existing passenger side mirror. Harnesses should be routed so the connector end is within a few inches of your desired Wide Angle *Signal*® Mirror mounting spot. *Note: It may be necessary to route wires discretely along the outside of mirrors which are not designed for internal wiring, such as manual, stem mounted, truck mirrors. Included in your kit is a length of wire sheath and 4 grommets to help make this type of install look professional.* Other mirrors such as motorized mirrors will typically allow full internal routing. Some suggestions for easy and discrete routing of wires are shown in the section below.



3. Clean the surface of your existing mirror with window cleaner. Connect the Wide Angle *Signal*® Mirror to the harness.
4. Remove the cap sheets from the 4 adhesive tabs.
5. Make sure all the wires are tucked into the mirror as discretely as possible. **CAUTION: Improper placement of all wires may interfere with mirror travel.** Place the Wide Angle *Signal*® Mirror so the two outer LED ablations are virtually parallel to the vertical tape previously positioned on existing mirror (step 1). Remove the masking tape, replace the mirror on the door, and route the wires into the vehicle.

Repeat all of the previous steps for the driver side mirror using the shorter of the two harnesses.

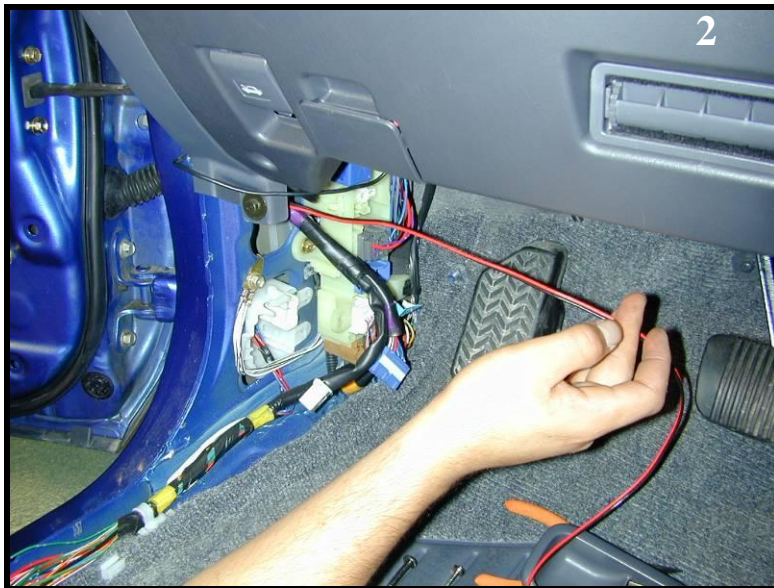
**Muth Mirror Systems is not responsible for incorrectly installed mirrors. Wide Angle *Signal*® Mirrors are not a substitute for checking your blind spot. Objects viewed in them are closer than they appear.**

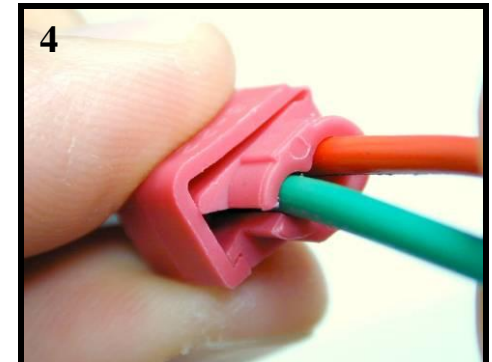
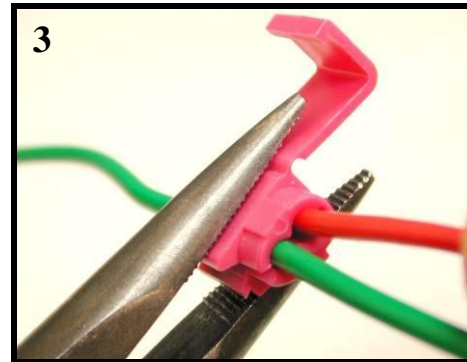
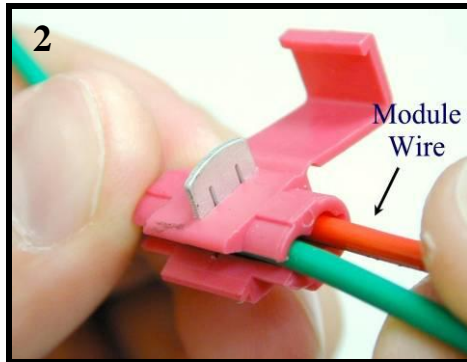
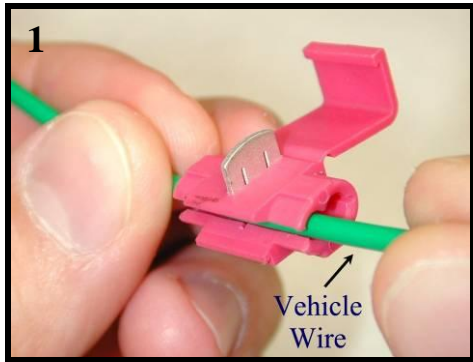


# Connecting Your Wide Angle *Signal*® Mirrors

1. Turn indicator wires can typically be found under the dash or in the kick panels at the base of the door frame.
2. Guide the *Signal*® mirror wire harnesses from both sides of the vehicle to your splicing location of choice.
3. Turn the ignition key so that electrical power is on and activate the driver side turn indicator. Use the wire tester to locate the active turn indicator wire. Label that wire as 'driver side turn'.

Activate the passenger side turn indicator. Use the wire tester to locate the active turn indicator wire. 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 electrical wiring and enough slack is left for splicing.
2. Splice the RED wire from the driver side harness into the wire previously labeled 'driver side turn'.
3. Splice the RED wire from the passenger side harness into the 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. (If only one wire is used in a grounding ring, bend the lead over to a double thickness).
5. Activate each turn indicator to verify that the Wide Angle *Signal*® Mirrors are working.
6. Replace any door accessories, insulation, plastic moldings, and trim pieces.

**PROFESSIONAL INSTALLATION RECOMMENDED**

**Warranty does not cover damage to vehicle or mirror housing due to improper installation. Muth Mirror Systems, LLC (MMS) assumes no responsibility with regard to the accuracy of this information. MMS assumes no liability or responsibility resulting from improper installation, even in reliance upon this information. Proper installation is the responsibility of the installer. It is your responsibility to verify any circuit before interfacing with it using a digital multimeter.**

**WARRANTY STATEMENT**

*The Signal® Mirror is warranted to be free from defects in materials and workmanship for a period of three years or 36,000 miles (whichever comes first) from date of sale to original purchaser. This warranty excludes labor, broken glass, or other situations that cause harm to the product after it has been shipped from the factory, such as damage, unreasonable use, modifications, or alterations. In the event of a defect, Muth reserves the right to evaluate the problem through Quality Control and, at Muth's discretion, replace the defective product. Any warranty or replacement part will be charged to the customer when shipped. Credit will be given when the defective part is returned to and received by Muth, and the replacement is warranted.*

**Muth products are protected by these, and other pending, United States Patents: 6,076,948; 6,257,746; 7,104,676; 7,327,321; 6,749,325; 7,241,037; 7,192,172; 7,273,307; 7,416,318; 6,045,243; D394,833; D409,540; D428,373; D426,506; D430,088; D426,507; D428,372; D429,202; D428,842; D425,466; D427,128**