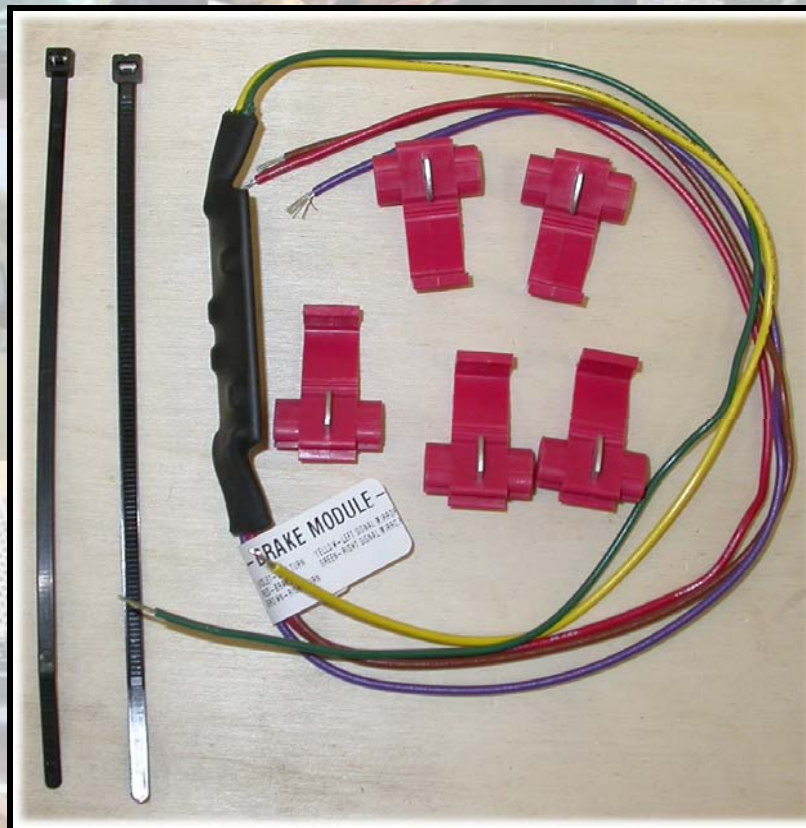




Brake Module Installation Instructions

TO BE USED WITH MUTH *SIGNAL*® MIRRORS



THE safety accessory of the 21st Century.™

Please read instructions prior to installation.

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) brake module w/wire harness, (5) wire taps, (2) nylon cable tie, and (1) instruction manual.

REQUIRED TOOLS:

Wire crimper, stripper, Masking tape, Multimeter, Sturdy gloves, and Safety glasses (goggles).

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

IMPORTANT NOTICE!

READ THIS FIRST!

THE MUTH BRAKE MODULE IS TO BE USED ONLY WITH MUTH *SIGNAL*® MIRRORS. USING THE MUTH BRAKE MODULE WITH ANYTHING OTHER THAN MUTH *SIGNAL*® MIRRORS MAY DAMAGE THE MODULE! DO NOT USE WITH THE MUTH MULTIFUNCTION MODULE.™

If you are installing the Muth brake module along with a **NEW** *Signal*® mirror installation, **DO NOT** connect the positive (red) wires from the *Signal*® mirror wire harnesses to the vehicle's turn indicator wires. Instead, connect them directly to the Muth brake module's wire harness.

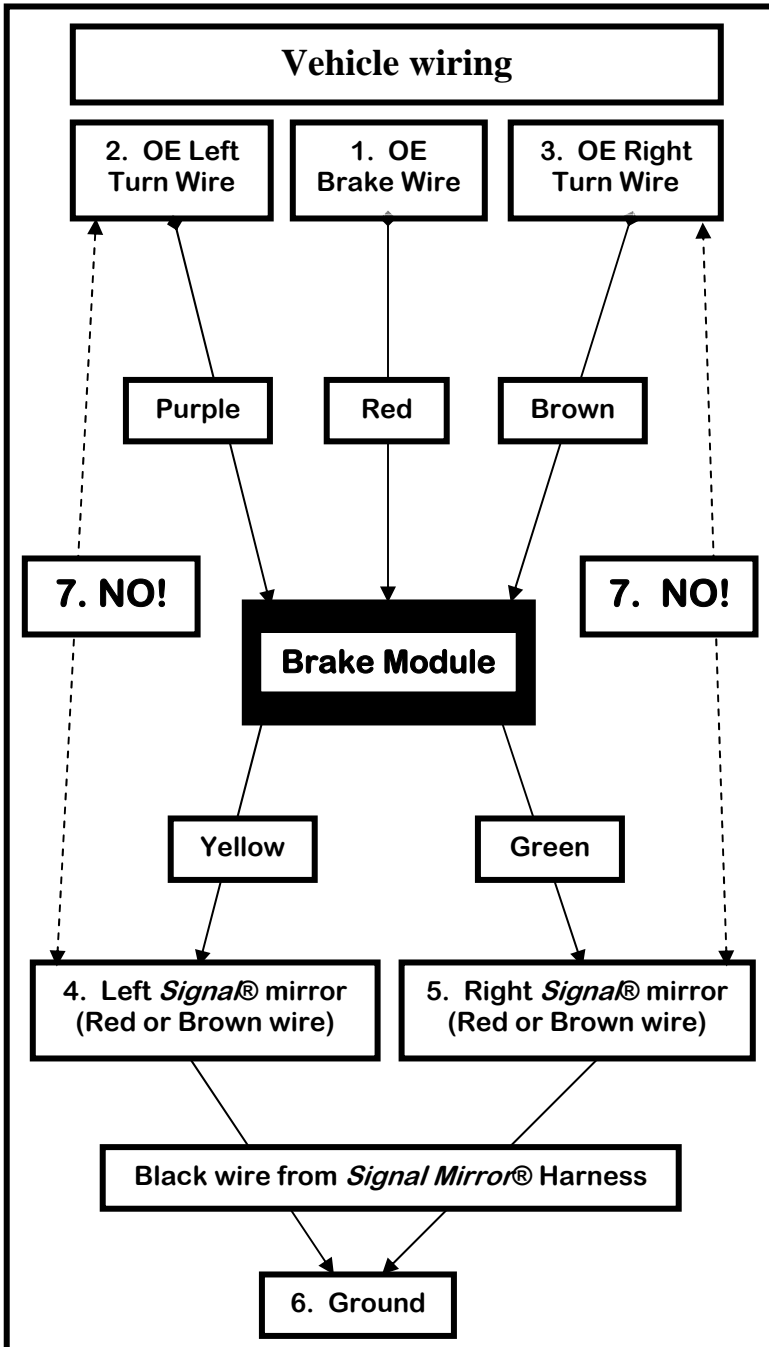
If you are installing the Muth brake module as an add-on to an **EXISTING** *Signal*® mirror installation, you will have to disconnect the positive (red) wires from the *Signal*® mirror wire harnesses and connect them directly to the Muth brake module's wire harness.

Locate the vehicle's brake and turn indicator wires before starting the installation. Turn indicator wires in automobiles are usually located on the driver side behind a kick panel or underneath the dash, however, some turn indicator wires are also found on the passenger side.

NOTE: LED brake lamps can adversely affect the operation of the Brake Module, resulting in the off-side *Signal*® mirror flashing very dimly when the opposite side turn indicator is on. This condition can be corrected by adding a 100ohm resistor from the brake input wire of the module to ground or chassis of the vehicle. The resistor should be rated 2 watts or greater – for example, Radio Shack #271-135.

NOTE: The *Signal*® mirrors may flash out of sync with the turn indicators on some vehicles, due to the vehicles electrical system, which would be considered normal operation.

BRAKE MODULE WIRING INFORMATION

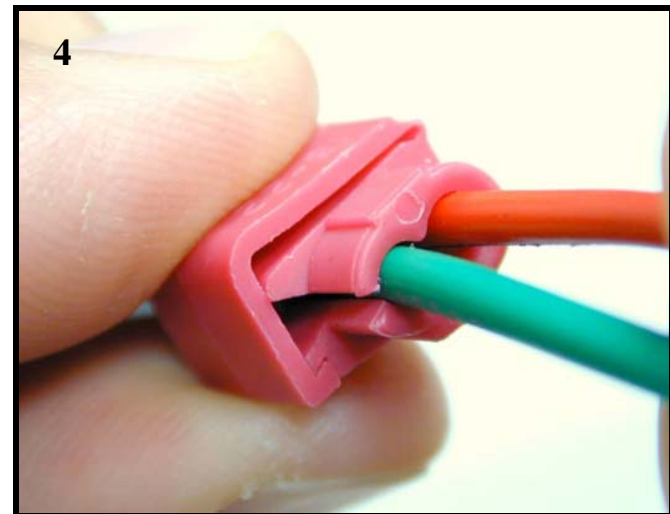
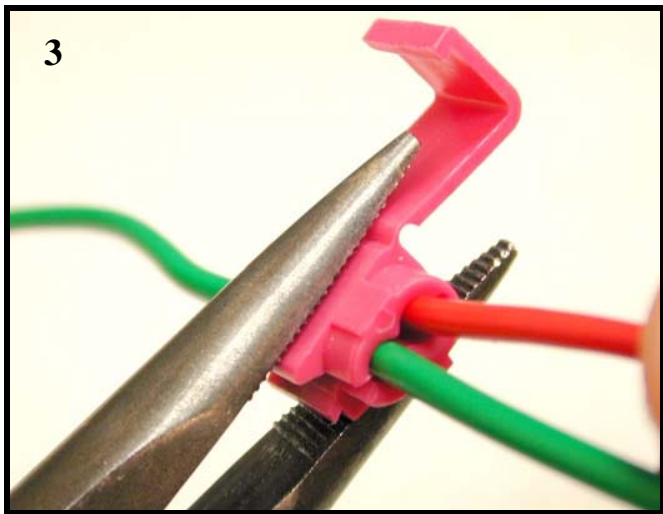
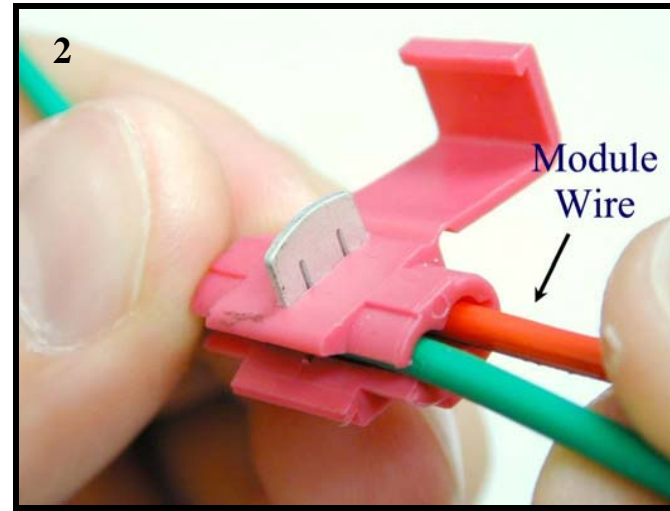
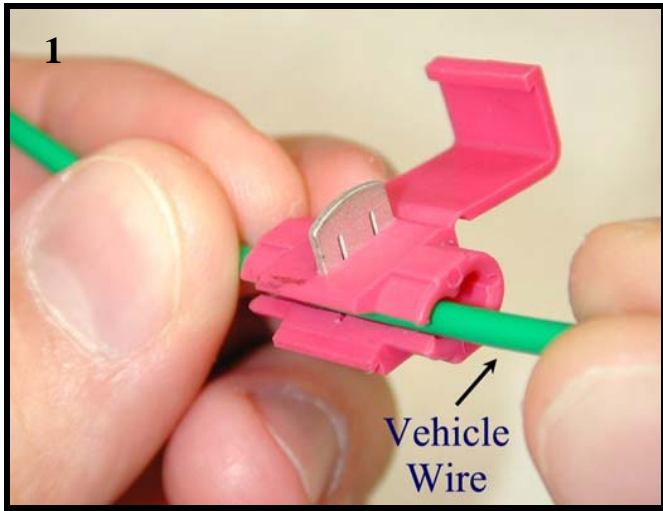


Connections

1. Tap the vehicle's Brake Wire to the Red input wire.
2. Tap the vehicle's left turn indicator wire to the Purple input wire.
3. Tap the vehicle's right turn indicator wire to the Brown input wire.
4. Connect the Yellow output wire to the non-black wire from the left *Signal Mirror®* harness. *Signal®* mirror non-black wire should only be connected to the Yellow wire, not to the vehicle.
5. Connect the Green output wire to the non-black wire from the right *Signal Mirror®* harness. *Signal®* mirror non-black wire should only be connected to the Green wire, not to the vehicle.
6. Ground the 2 Black wires from the *Signal Mirror®* harnesses.
7. **DO NOT** connect the Red or Brown wire from each *Signal®* mirror to the vehicle wiring. This connection must be cut if you are adding the Brake Module to an existing *Signal Mirror®* installation.

What readings you should get:

- When the left turn indicator is active, the Purple and Yellow wires should pulse to +12 volts. All other wires should be 0 volts.
- When the right turn indicator is active, the Brown and Green wires should pulse to +12 volts. All other wires should be 0 volts.
- When the Brake only is activated, the Red, Yellow, and Green wires should all be a steady +12 volts. The Purple and Brown should be 0 volts.
- When the Brake is activated with a left turn indicator, the Red and Green should be a steady +12 volts. The Purple and Yellow should pulse to +12 volts. The Brown should be 0 volts.
- When the Brake is activated with a right turn indicator, the Red and Yellow should be a steady +12 volts. The Brown and Green should pulse to +12 volts. The Purple should be 0 volts.



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

*****Activate the brake and each turn indicator to verify that the *Signal*[®] mirrors are working correctly.*****