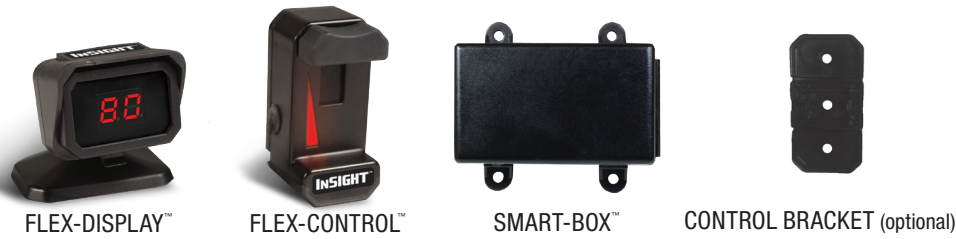


# INSIGHT™

## FLEX-MOUNT™

### TRAILER BRAKE CONTROL



#### IMPORTANT

Read the following instructions carefully before installing and/or operating the brake control.

#### INSTALLATION PRECAUTIONS

- Braking capacity is for 2, 4, 6 or 8 trailer brake applications.
- This brake control will apply the trailer brakes while in reverse.
- This brake control is inertia activated. When the vehicle is not moving, the brake control will not automatically apply the trailer brakes. In this event, the manual brake must be depressed to actuate the brakes.
- This brake control is not reverse polarity protected. Reversing the connection to the vehicle battery or the breakaway battery on the trailer will damage the brake control.
- This brake control is designed to operate trailers with electric or electric/hydraulic brakes.
- For best results when installing components with double sided tape, make sure to prep the area by cleaning it with rubbing alcohol first.

#### INSTALLATION GUIDE

- Smart-Box™ Mounting:**  
Locate an area under the vehicle dash on center console or kick panel to mount the Smart-Box, making sure it is not in a position that interferes with the emergency brake or pedal operation. Orientation of the Smart-Box Mount should be where [SIDE A] of the Smart-Box mounts against the kick panel or center console. Allow enough room to plug in the brake control harness and peripheral devices easily. Mount with foam tape, cable ties or self-tapping screws (provided).

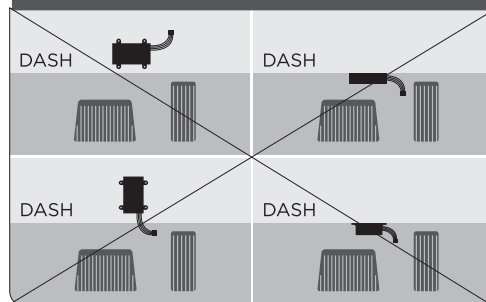


KICK PANEL

#### CAUTION

DO NOT MOUNT ON DASH

ONLY MOUNT ON KICK PANEL OR CENTER CONSOLE



#### Flex-Control™ and Flex-Display™ Mounting:

- Sit in the driver's seat and decide where you want to install the Flex-Display™ and Flex-Control™. Make sure that the Flex-Display is within sight lines that will allow you to locate it easily while driving. The Flex-Control should be mounted in a position that it is within easy reach while driving.
- Once the installation locations are determined, bring the Flex-Display™ to the area it will be mounted and begin to run the wire either behind vehicle panels or behind weather stripping down to the Smart-Box™. Use double sided tape to secure the Flex-Display™ to desired mounting location. Apply tape to the bottom of the display bracket, or remove the display bracket and attach the tape directly to the back of the display.
- With the Flex-Control™ in the desired location, run the wire to the Smart-Box™ using the vehicle's dash seams and panels to conceal the wire. Use double-sided tape to secure the Flex-Control™ to desired mounting location.

[Optional: Use Control Bracket and attach to dash with screws or double sided tape. Optional mounting bracket flexes to allow easy mounting to curved surfaces.]

- With all wires routed down to the Smart-Box™ location, plug all peripheral wires into the Smart-Box™.

#### HOW TO ATTACH TO VEHICLE FACTORY TOW PACKAGE

If your vehicle came equipped with a factory tow package, brake control function wires may exist under the vehicle dash. Consult vehicle manual or call for location. Purchase a vehicle specific Plug-in Simple!™ brake control connector and simply plug into the factory tow package plug, or splice the wires to the function wires under the dash.

Black wire – positive terminal (+) on battery  
Red wire – cold side of stop lamp switch or brake light  
White wire – ground/negative terminal (-) on battery  
Blue wire – trailer electric brakes

| BRAKE CONTROL WIRE COLOR |                             | BLACK              | RED                | WHITE             | BLUE       |
|--------------------------|-----------------------------|--------------------|--------------------|-------------------|------------|
| MAKE                     | MODEL & YEAR                | VEHICLE WIRE COLOR |                    |                   |            |
| CHEVY & GMC              | 2007 (New Style) - 2013     | RED                | LIGHT BLUE & WHITE | WHITE             | DARK BLUE  |
| CHEVY & GMC              | 1999 - 2007 (Classic Style) | RED                | LIGHT BLUE         | BLACK             | DARK BLUE  |
| DODGE                    | 2009-2012                   | RED & YELLOW       | WHITE & VIOLET     | BLACK & DRK GREEN | DARK GREEN |
| DODGE                    | 2003-2008                   | RED & WHITE        | BLUE & WHITE       | BLACK & GREEN     | BLUE       |
| DODGE                    | 1997-2002                   | RED                | WHITE              | BLACK             | BLUE       |
| FORD                     | F-250 / 350 2009-2013       | RED & BROWN        | BLUE ORANGE        | BLACK & GRAY      | BLUE       |
| FORD                     | F-150 2009-2013             | RED OR RED & GRAY  | GREEN OR YEL GRN   | WHITE & BROWN     | BLUE       |
| FORD                     | F-150 1994-2008             | RED                | LIGHT GREEN        | WHITE             | DARK BLUE  |
| TOYOTA & LEXUS           | 2003-2012                   | BLACK              | GREEN & YELLOW     | BLACK & WHITE     | BLUE & RED |

#### VEHICLE MANUFACTURER WIRING CODES

For installations on vehicles **WITHOUT** a factory tow package use the following procedure:

- Be sure to use proper wire gauge when installing your control (12 gauge for electric brakes and positive power, 16 gauge for the stop lamp switch and ground).
- Connect the white wire directly to the negative post on the vehicle battery. Grounding to any other location may cause intermittent brake control operation or failure.
- Attach 20-amp circuit breaker (for 6 or 8 brake use 30-amp) or in-line fuse to the positive terminal on the vehicle's battery. Route black wire from the brake control to the fuse or breaker.
- Splice the red wire into the cold side of the vehicle's stop lamp switch located by the brake pedal. Find the wire by using a circuit tester and probing for the wire that powers the vehicle stop lamps when the brake pedal is pressed.
- Route the blue wire from the brake control to the vehicle side towing connector at the rear of the tow vehicle.

#### NOTES

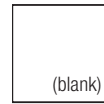
- Some late model Ford/Mercury trucks and sport utility vehicles have 2 or more stop lamp switch wires. For proper operation, use the light green wire. The other wire is red with a green stripe. This wire goes directly to ground when not in use. Splicing into this wire will short circuit your brake control and possibly damage the unit.
- For Chevrolet vehicles 1999-06, if your vehicle does not have a towing package, only the ground and stop lamp switch will be active in the function wires under the dash. The electric brake wire and 12-volt power lead will be terminated outside the firewall. These will have to be routed to the trailer connector and battery on the vehicle.
- For Chevrolet vehicles 2007 New Body Style-13, only the ground and stop lamp switch will be active in the function wires under the dash. The electric brake wire and 12-volt power lead will be terminated outside the firewall. These will have to be routed to the fuse block on the vehicle. 20-amp fuses will need to be installed to power these functions.
- For Dodge 2005-06, to find the cold side of the stop lamp switch, you must have the key in the "on" position.
- Ford and Dodge tow packages come with a 20-amp battery feed wire system that will accommodate 2 and 4 brake trailer magnets. An upgrade to a 30-amp (12 gauge) battery wire system will be needed for 6 brake systems.

#### OPERATING AND SETTING YOUR CONTROLLER



##### 1. RED DOT

A red dot on bottom-right hand corner of the digital display indicates trailer is connected.



##### 2. BLANK

A blank display (no dot) indicates trailer is not connected.



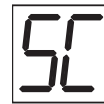
##### 3. POWER

Power adjustment buttons (+/-) on top of the control adjust power sent to the trailer brakes. Pressing the (-) button decreases power. Pressing (+) increases power. Power will be displayed as a percentage on the digital display from 5 to 99 in increments of 5%.



##### 4. SENSITIVITY

This feature makes your trailer braking response more or less sensitive. A setting of 1 indicates least sensitive. A setting of 10 indicates most sensitive. Adjust the sensitivity by pressing the button labeled "S" on the side of the unit.



##### 5. SHORT CIRCUIT

SC indicates that a short circuit has occurred

#### TESTING / ADJUSTING THE BRAKING RESPONSE:

Connect to your trailer and test drive on a dry open area at low speed (20 to 25 mph). Apply vehicle brakes aggressively.

- If trailer brakes lock-up, adjust down the power setting to just below brake lock-up by pressing the (-) power button.
- If the braking performance from the trailer feels as if it is pushing the tow vehicle, adjust the power setting higher by pressing the (+) power button. Repeat process until smooth braking is obtained.