

# Agility™

## Electronic Brake Control



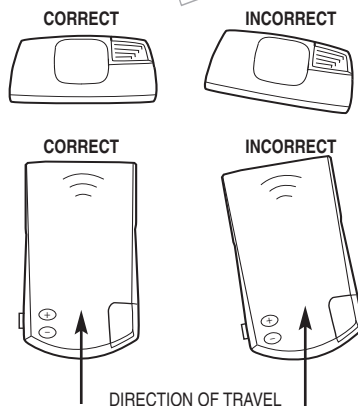
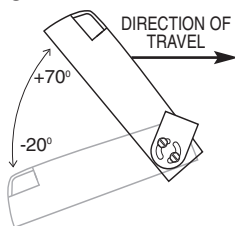
- A. Vertical slide for manual override
- B. Digital readout display
- C. Sensitivity adjustment button
- D. Digital power setting buttons
- E. Mounting bracket holes

### 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 vertical slide 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 with electric trailer brakes and not electric-hydraulic brake systems.

### INSTALLATION GUIDE:

The brake control can be mounted from -20 degrees nose down to +70 degrees nose up and parallel to the direction of the travel.



1. Mount the bracket to a secure location with Phillip screws provided (F) where you will be able to view the display and easily access the vertical slide.
2. Attach the brake control to the bracket using the slotted hex screws provided (G).
3. Adjust the brake control to the desired angle and tighten screws until snug.

**CAUTION:** Using larger/longer screws may damage the unit.

### WIRING GUIDE:

The Agility™ came equipped with either a quick connector plug or just wires exiting the back of the control.

**OPTION:** 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 quick connector and simply plug into the factory tow package plug, or remove the quick connector plug on the brake control and splice the wires to the function wires under the dash.

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

**CAUTION:** Wire colors vary by manufacturer. Be sure to wire by function only.

#### VEHICLE MANUFACTURER WIRING CODES:

BRAKE CONTROL WIRE	BLUE	BLACK	RED	WHITE
FORD 94-07	BLUE	RED	GREEN	WHITE
CHEV/GM 99-06	DK BLUE	RED	LT BLUE	BLACK
CHEV/GM 07-08	DK BLUE	RED w/BLK	LT BLUE w/WHT	WHITE
DODGE 97-02	BLUE	RED	WHITE	BLACK
DODGE 03-07	BLUE	WHITE w/RED	BLUE w/WHT	GRN w/BLK
NISSAN	BRN w/WHT	RED	RED w/GRN	BLACK
TOYOTA	RED	BLACK w/RED	GRN w/ WHT	BROWN

For installations on vehicles *without* factory tow package use the following procedure: (remove the quick connector plug if present)

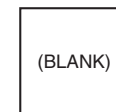
1. Be sure to use proper wire gauge when installing your control (12 gauge for electric brakes and positive power, 16 gauge for the stop lamp switch and ground).
2. Connect the white wire directly to the negative post on the vehicle battery. Grounding to any other location may cause intermittent brake control operation or failure.
3. 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.
4. 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.
5. Route the blue wire from the brake control to the vehicle side towing connector at the rear of the tow vehicle.

#### NOTE:

- 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 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 / SETTING YOUR CONTROLLER:

1. Red dot on bottom right hand corner of digital display indicates trailer is connected.
2. A blank display (no dot) indicates trailer is not connected.
3. 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. Set the sensitivity. This feature makes your trailer braking response more or less sensitive. A setting of 1 indicates least sensitive. A setting of 5 indicates most sensitive. Adjust the sensitivity by pressing the button labeled "S" on the side of the unit.
5. 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.

1. If trailer brakes lock-up, adjust down the power setting to just below brake lock-up by pressing the (-) power button.
  2. 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.