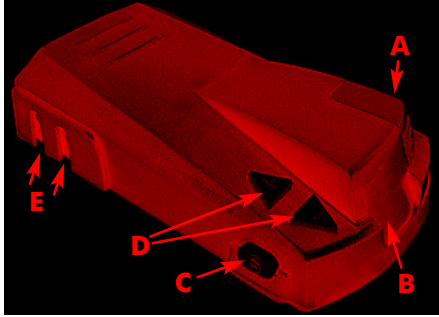


Agility™

Electronic Brake Control

Part No. 47295

IMPORTANT: Read the following instructions carefully before installing and/or operating the brake control. If you have any concerns with this product or the installation process, our technical support team can assist you. Call (03) 9761 1110



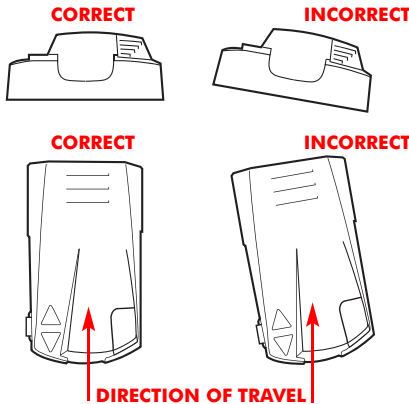
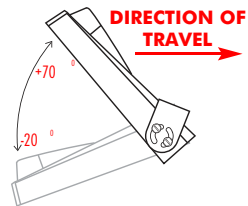
- A. Vertical slide for manual override
- B. Digital readout display
- C. Sensitivity adjustment button
- D. Digital power setting buttons
- E. Mounting bracket holes

INSTALLATION PRECAUTIONS:

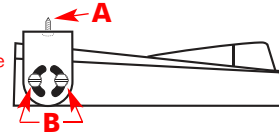
- Braking capacity is for 2, 4 or 6 trailer brake applications.
- This brake control will apply the trailer brakes while in reverse.
- This brake control is inertia activated. When the vehicle is not moving, the brake control will not automatically apply the trailer brakes. In this event, the vertical 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.
- Do not mount or activate RF (radio frequency) generating devices near the brake control (less than 40cm proximity), i.e. Mobile phones, two-way radios.
- 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 travel.



1. Mount the bracket to a secure location with Phillip screws provided (A) 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 (B).
 3. Adjust the brake control to the desired angle and tighten screws until snug.
- CAUTION:** Drilling or using larger/longer screws may damage the unit.



WIRING GUIDE:

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 colours vary by manufacturer. Be sure to wire by function only.

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 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.

OPTION: If your vehicle came equipped with a factory tow package, brake control function wires may exist under the vehicle dash. Consult vehicle manual. Simply splice the wires from the brake control to the function wires under the dash.

AUSTRALIAN TRANSPORT SAFETY BUREAU (DOTARS) TECHNICAL REQUIREMENTS

ELECTRIC WIRING

Trailer wiring must meet the following requirements:

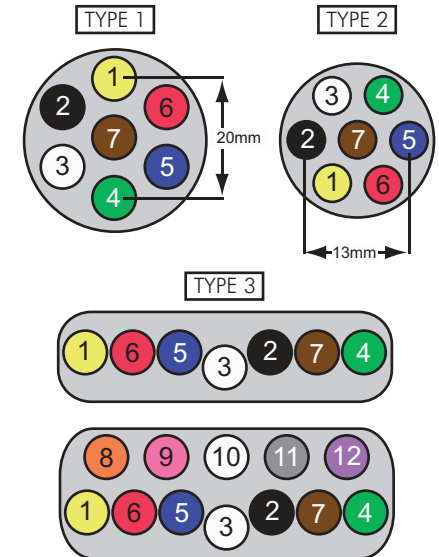
- All wiring must be anchored to the chassis at intervals of not more than 600 millimetres along its length
- All wiring must be insulated at joints
- All wiring must be located in such a position that it can neither become overheated nor contact moving parts
- All wiring must be protected from chafing
- An earth return wire must be provided between the trailer and its hauling vehicle; it is not acceptable to use the trailer coupling as an earth.

Trailers and towing vehicles must have electrical connectors which comply with Australian Standard 2513-1982 'Electrical Connectors for Trailer Vehicles' or as amended from time to time. Three types of seven pin connectors are specified in the Standard and their wiring is shown below. Twelve pin connectors are also specified in the Standard.

Note: Because of interchangeability problems that may arise it is recommended that pin 5 in the 7 pin connectors be used only for service brakes. If auxiliary circuits are required then the 12 pin type 3 connector would be preferable.

	Circuit	Circuit Conductor	Circuit Conductor Colour
7 Pin Connector	1	Left-hand turn	Yellow
	2	Reversing Signal	Black
	3	Earth Return	White
	4	Right-hand turn	Green
	5	Service Brakes	Blue
	6	Stop Lamps	Red
	7	Rear Lamps, clearance and side marker Lamps	Brown
12 Pin Connector	8	Battery Charger/Electric Winch	Orange
	9	Auxiliaries, etc. /Battery Feed	Pink
	10	Earth Return	White
	11	Rear Fog Lamp	Grey
	12	Spare	Violet

Front view of trailer plugs:

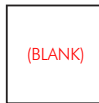


Agility™

Electronic Brake Control Continued.... Part No. 47295

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. Pushing the (-) button decreases power. Pushing (+) 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. The display indicates SC when 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 (30 to 40 kph). 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.
3. Set the Sensitivity setting at 3 to begin with. If brakes come on too early, reduce the setting by 1, if brakes seem to come on too slowly, increase the setting by 1.

Repeat process until smooth braking is obtained.

OTHER QUALITY HOPKINS PRODUCTS AVAILABLE:



Part # 20099
Break-Away Kit with
LED's & Charger



Part # 20400
Side Mount Break-Away Kit
with LED's & Charger



Part # 20005
Break-Away Switch with
7" wires (Clamshell Pack)

HOPPY 'ENGAGER' BREAK-AWAY KITS



Part # 20008
Break-Away Kit
12V Battery



Part # 20009
Break-Away Cable and Pin
(Clamshell Pack)



Part # 20026
Break-Away U Bolts, Washers
and Nuts (25 Pairs)



Part # 20027
Break-Away Self Tapping
Screws (25 x 4 Packs)



Part # 20107
Break-Away Kit Weldable
Mounting Plate



Part # 20407
Side Mount Break-Away Kit
Weldable Mounting Plate

HOPPY BRAKE CONTROLS



Part # 47225
Brake-Force LED
Brake Control Unit



Part # 47235
Impulse Digital
Brake Control Unit



Part # 47285
Reliance Digital
Brake Control Unit



Part # 47295
Agility Digital
Brake Control Unit



Part # 47275
Brake Control
Installation Kit



Part # 47685
Brake-force & Impulse
Replacement Universal
Wiring Kit W/bracket

HOPPY LEVELS



Part # 03925
Multi-Purpose
Stick-On Levels
(2pk)



Part # 05515
Level+Plus'™
(with Memory)



Part # 09025
Multi-Purpose
Screw-On Levels
(2pk)



Part # 09515
Pocket Surface
Level



Part # 09615
Cross Check
Level



Part # 09815
BullsEye Surface
Level



Part # 04115
Rear View
Level
(Metal)



Part # 08525
Graduated
RV Levels (2pk)



Part # 09215
Level Light
with
LED Indicator



Part # 09353
Surface Level
3-way on
Clip-Strip (x12)



Part # 09715
Trailer Hitch
Level



Part # 09915
Reflective Multi-
Purpose Levels

HOPKINS
MANUFACTURING
CORPORATION



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