LV automotive™

PLEASE READ BEFORE INSTALLATION & USE

ELECTRIC BRAKE CONTROLLER

INSTALLATION & OPERATING GUIDE

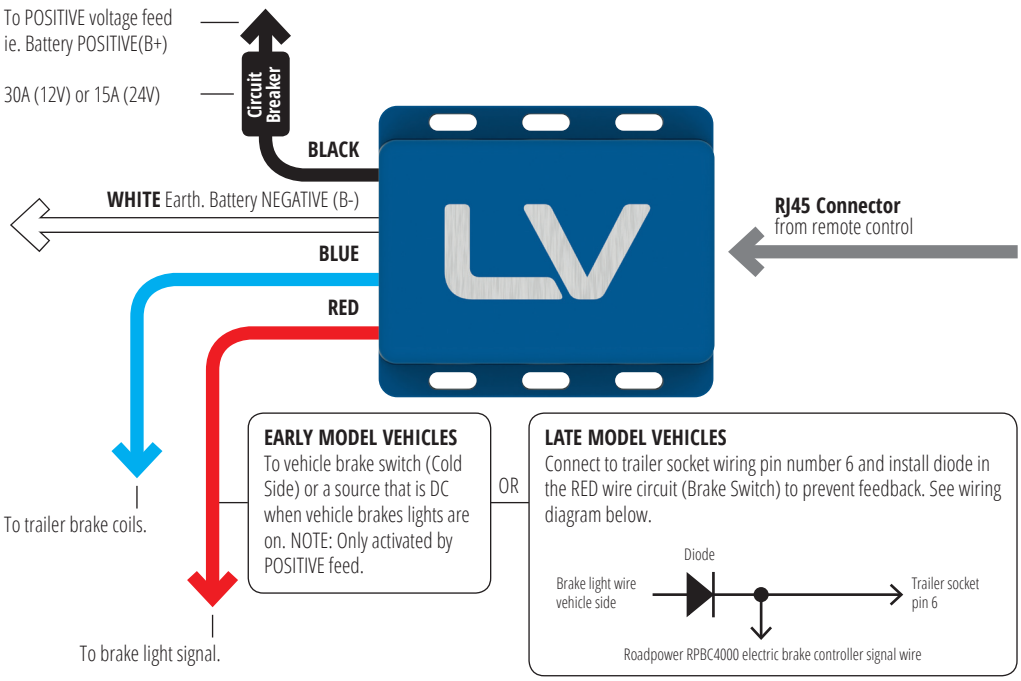
The LV1444 electric trailer brake controller provides smooth application of a connected electric braking system. Brake actuation is automatic, user-definable and overridable via a discrete, multi-positionable control. Designed to suit both 12 and 24V tow vehicle electrical systems, the LV1444 can operate 1-3 axle 12V electric brake systems.

12-24V	360°	5YR
COMPATIBLE	MOUNTING	WARRANTY

NOTE: The LV1444 requires an electrical load on the output (blue) wire to test the operation of unit. Without an output wire load a high output voltage will register. The output signal is pulsed so it cannot be tested accurately with a voltmeter or a LED test light.

INSTALLATION

1. Disconnect the vehicle's NEGATIVE battery terminal.
2. Determine suitable mounting locations inside the cabin for the remote head and main unit. Panel for securing the remote head must be max. 4mm thick.
3. Drill an 8.5mm hole in the panel for the remote head.
4. Affix control knob decal over the 8.5mm hole, install the remote control through the hole and secure with the retaining nut.
5. Turn remote control shaft fully counter-clockwise. Install the main indicator line towards the Min indicator on the label.
6. Complete wiring to the main unit referencing the schematic below.
7. Secure the main unit in position.
8. Plug the RJ45 connector from the remote control into the remote unit.
9. Test system and set braking force as per the set-up procedure below.



SPECIFICATIONS

Minimum input voltage	**9V**	**Maximum load**	**1-3 Axles**
Nominal input voltage	**12V or 24v**	**Dimensions**	**30 x 57 x 90mm**
Maximum input voltage	**30V**	**Weight**	**200g**
Suitable for 12V trailer systems	**Yes**	**Warranty**	**5 Years**
No current load	**12mA**		

WIRING

PLEASE NOTE: The control unit is activated by a positive feed brake switch only. Please check the polarity of your vehicles brake switch before connection.

White wire	**Negative (B-)**	**Black wire**	**Positive (B+)**
Blue wire	**Trailer Brakes**	**Red wire**	**Brake Light Signal**

The brake controller coloured wires, BLACK, RED, BLUE, WHITE.

BLACK wire: To positive voltage feed ie. Battery POSITIVE (B+).

RED wire: EARLY MODEL VEHICLES: Connect to vehicle brake switch (Cold Side) or a source that is DC when the vehicle brake lights are on. Note only activated by POSITIVE feed. LATE MODEL VEHICLES: Connect to trailer brake socket wiring pin number 6 and install a diode (Diode specs: 12V systems - 30V 20A. 24V systems - 60V 15A) in line to prevent feedback. Refer to page 2 for wiring diagram.

The BLUE wire must be connected directly to the trailer brake wire at the vehicle's trailer socket.

WHITE wire: Earth Battery NEGATIVE (B-).

IMPORTANT:

A brake control unit that is not properly grounded may operate intermittently or not at all.

Make sure all connections are secure.

Do not connect the black POSITIVE (B+) wire to the fuse panel or tie into any accessory wiring. Connecting to the existing wiring may damage the vehicles wiring and cause trailer brake failure.

Do not reverse black POSITIVE (B+) wire and white NEGATIVE (B-) connections.

Momentary incorrect connection can damage the brake control unit.

SET-UP & OPERATION

SETTING THE BRAKE FORCE

To set the brake intensity simply rotate the knob until the required braking level is achieved. A clockwise knob rotation will increase the braking and a counter-clockwise will decrease.

Override Function

To activate the over-ride function simply push on the adjustment knob and release to disable the function. The braking force when the over-ride is active is still determined by the knob position.

ADJUSTMENT KNOB LED INDICATION

LED green

- Trailer connected
- Brakes connected
- All systems OK

LED FLASHING

Either:

- Brake pedal pressed, controller actively braking
- Override has been pressed

Note: Unit will flash 3-4 times after pressing the brake or using the override then to solid

LED OFF

- No power or trailer disconnected from vehicle

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