

vm1



USER GUIDE

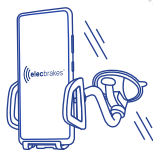
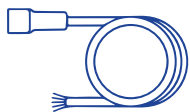
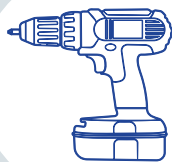
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WHAT YOU'LL NEED



- VM1 Brake Controller
- X4 Self Tapping Screws (included in box)

- Drill
- 4.5mm Drill Bit
- PH2 Driver Bit

- 1.5M Leader (included in box)

- A Smartphone Device

Your phone must be either:
Apple IOS 15 or later
Android 10 or later

- Car Phone Mount

If using CarPlay, Android Auto or the remote a phone mount isn't required.



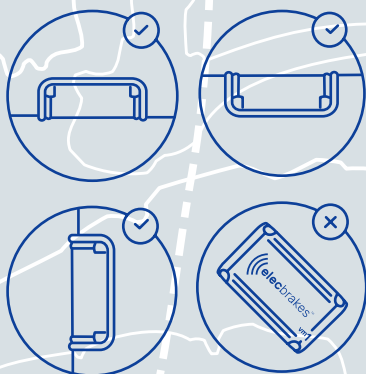
OPTIONAL:

You will need a smartphone for the initial setup of your VM1. After that, if you'd prefer not to use the mobile app, you can control your VM1 with our optional remote (sold separately).

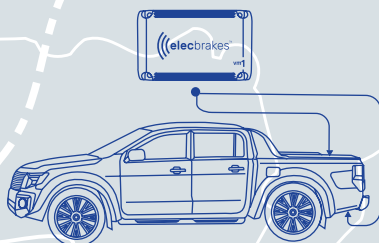
For more information on how to use the remote, refer to our [Remote User Manual](#).

MOUNTING LOCATIONS

MOUNTING ORIENTATIONS



VM1 must be mounted with one face parallel to ground



MOUNTING LOCATION

Choose a suitable location for mounting the VM1:

- Luggage compartment.
- Rear quarter panel.
- Ute tray or vehicle underbody.
- For optimal SwayControl performance, mount your Elecbrakes VM1 within 1m of the tow ball (i.e. behind the rear axle).

Ensure the brake controller is mounted securely and within reach of the wiring harness.

VEHICLE REQUIREMENTS

- ⚡ +12V (25A) DC voltage source
 - ⚡ +24V (12A) DC voltage source
 - ⚡ DC negative (earth) point
 - ⓪ Brake light voltage (12-24V DC)
- OR

INSTALL GUIDE

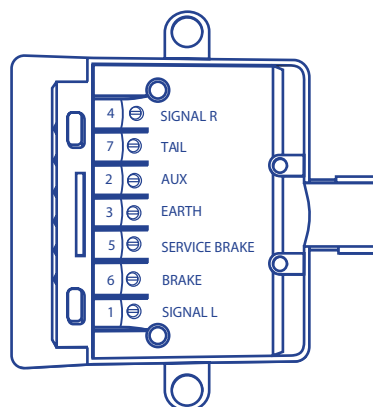
CONNECTIONS/WIRING GUIDE

BLACK	DC Voltage Supply
RED	Brake Light Voltage Supply
BROWN	Not Used
WHITE	DC Negative Earth
BLUE	Service Brake Output

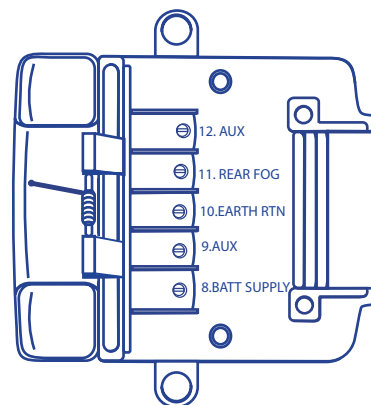
CONNECTIONS/WIRING

- 1 Wire in the exposed end of the leader into the vehicle's existing trailer socket using the CONNECTIONS / WIRING guide to the left.
- 2 Unscrew the top / bottom covers of your vehicle's trailer socket to expose the wiring.
- 3 Match the colours of the wired leader (supplied) to the requisite positions on the trailer plug.
- 4 Use the pin-outs below to aid in the wiring process.
- 5 Fasten the covers back onto the vehicles socket.

7-PIN



12-PIN



PAIRING THE UNIT



POWER UP TEST

- 1 Download the Elecbrakes app.
- 2 Connect to your VM1.
- 3 Confirm app displays red circle when braking.
- 4 Follow the onboarding prompts in the Elecbrakes app for a complete installation guide, authentication, unit calibration, and adjustment of brake controller settings.



Download The App



GET IT ON
Google Play



Download on the
App Store

You must use the Elecbrakes app on your smartphone for the initial connection and setup of your brake controller.

Minimum requirements

- iOS 15 or later
- Android 10 or later



IMPORTANT:

When using a mobile phone ensure that it is mounted securely in a cradle.



IF USING THE ELECBRAKES REMOTE:

To connect the Elecbrakes remote, you must first download the Elecbrakes app. During onboarding, you'll be prompted to enable the EB remote, or you can do this anytime under the 'Settings' tab by tapping "Enable Remote".

For more information on how to use the remote, refer to our [Remote User Manual](#).

3. CONNECTING YOUR DEVICE

BEFORE YOU DRIVE & AUTHENTICATION

The VM1 requires auxiliary power provided by your tow vehicle, when the unit is not in use it will enter sleep mode to conserve vehicle battery.



1

Connect your trailer wiring and start your vehicle.



Search

2

Press your foot firmly on the brake pedal to search for your brake controller.



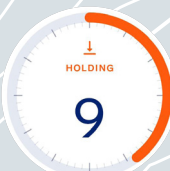
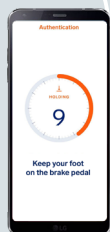
AUTHENTICATION PROCESS:

To link your smartphone to your EB2, you will need to complete a quick authentication sequence. You will only need to complete this sequence once per brake controller. Follow the prompts on the phone screen.



3

Keep your foot on the brake pedal to begin the authentication process.



4

Keep your foot firmly on the brake pedal during the on-screen countdown.



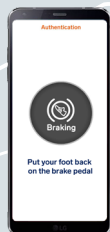
5

Release the brake pedal when prompted.

BEFORE YOU DRIVE & AUTHENTICATION



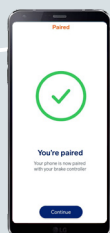
Keep the brake pedal released for the next countdown.



Press the brake pedal one final time to complete the authentication sequence.



Once successful, a green tick will appear.
If prompted, accept the Bluetooth® pairing request by tapping 'Pair'.

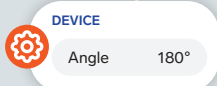
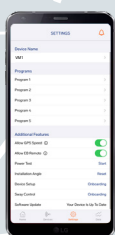
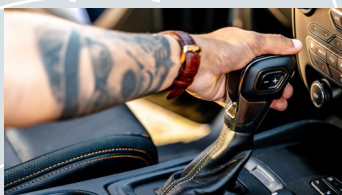


Your now paired with your VM1 brake controller. Press 'Continue' to complete onboarding.



If the setup sequence fails, reconnect and try again.

FORWARD DIRECTION



⚠ IMPORTANT

If this is the first time the Elecbrakes VM1 is being used, or you have moved the brake controller's location, you will need to follow the steps below to calibrate or re-calibrate the forward direction.

During this calibration the Elecbrakes VM1 will brake at default settings.

Go for a short drive and apply the brakes several times in order to set the forward direction. You will receive a notification in the app once the forward direction has been set. This will typically happen after 1-3 braking events.

Note: Don't worry, the forward direction is refined during driving, so it is normal for it to change slightly after the initial setting. It will continue to refine while you drive and become more accurate over time.

1

2

The installation angle is visible on the "data" page, under "accelerometer".

⚠ TROUBLESHOOTING:

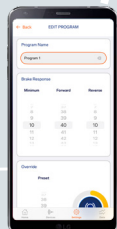
If the angle does not appear in the app, repeat step 1 & 2.

ADJUSTING YOUR BRAKES

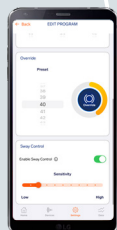
Once you have confirmed that the installation angle is set, you can adjust your brake response settings. The VM1 will be set at a default response that will need to be tailored to your towing setup. You can configure different programs, to suit your scenario.



SELECT PROGRAM



Brake Response		
Minimum	Forward	Reverse
7	37	7
8	38	8
9	39	9
10	40	10
11	41	11
12	42	12
13	43	13



Override	
Preset	
37	
38	
39	
40	
41	
42	
43	

Your VM1 comes with default brake settings. We recommend adjusting your brake response to your specific requirements. To adjust the **minimum**, **forward**, **reverse** and **manual override** response, tap 'Settings' on the app.

MINIMUM RESPONSE

To set the minimum response: Drive slowly, approximately 20km/h, and apply the brakes as lightly as you can. Adjust the minimum up or down until you can just barely feel that the trailer is braking. Experiment with small changes until you are happy with the feel.

FORWARD RESPONSE

To set the forward response: Be sure to first adjust the minimum to a satisfactory setting. Then, while braking normally and over a variety of conditions, adjust the forward response up or down until braking feels smooth and the trailer and tow vehicle are braking as one.

REVERSE RESPONSE

To set the reverse response: Reverse slowly and apply the brakes. Experiment with small changes until you are happy with the feel of the reverse brake response.

MANUAL OVERRIDE RESPONSE

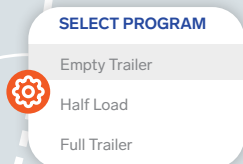
To set the manual override response: A good starting point is to set the override preset value equal to the forward response value and adjust from there, according to preference.

MANAGING PROGRAMS

HOW TO ADJUST YOUR PROGRAMS:

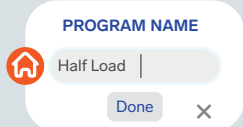
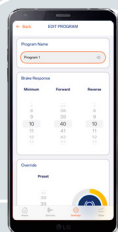
You can set up to 5 user defined programs. These programs are useful for several reasons:

- Variation in the weight of the trailer
- A change in environment
- Individual user preferences



1

You must be connected to the brake controller to select and configure programs. Navigate to the 'Settings' page and select the program you wish to edit.



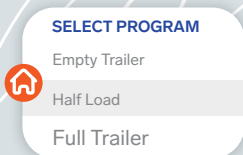
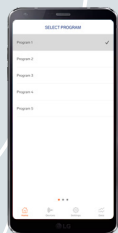
2

You will then be able to name the program and adjust your brake responses as outlined on **Page 7**. Any changes will automatically save to the VM1.



3

Tap 'Home'. The edited program is now your active program. The program selected appears at the top of the page.



4

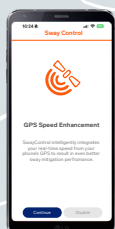
To change the program selected, swipe to the right and select your preferred program.

SWAYCONTROL SETTINGS

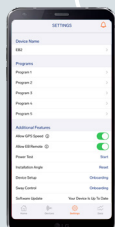
WHAT IS SWAYCONTROL?

Elecbreaks SwayControl is built in to your VM1 and provides you with a seamless, integrated towing safety solution.

This smart, single system constantly monitors your towing dynamics to give you the precise response you need. We provide you with the ability to tune SwayControl to suit your trailer setup perfectly, and to disable it if required - so you can use it with any vehicle and trailer combination.



Continue



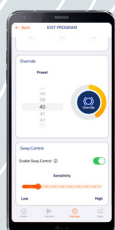
SELECT PROGRAM

Empty Trailer

Half Load

Full Trailer

1



2

ENABLING GPS:

Elecbreaks SwayControl can leverage GPS data from your actively connected smartphone to make SwayControl even better - if you enable this function during SwayControl onboarding or via the "Settings" tab.

SwayControl uses GPS data from your connected smart device to disarm SwayControl when you are driving slowly.

The Elecbreaks App supports SwayControl within Apple CarPlay and Android Auto.

TURNING SWAYCONTROL ON/OFF ON THE HOMEPAGE:

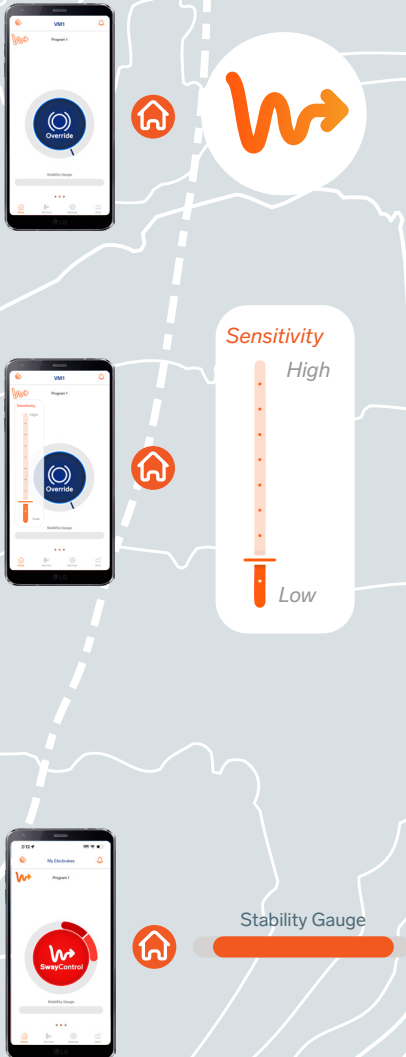
For some usage scenario's, such as extreme offroading, and for some trailers - such as unladen plant or equipment trailers, car carriers, or empty boat trailers - you may find SwayControl is overactive or unhelpful. You can turn SwayControl ON or OFF via the homepage by pressing and holding the SwayControl icon. This can also be done in the program settings page for each user program.

TURNING SWAYCONTROL ON/OFF FOR EACH PROGRAM:

Go to the settings page on your app and select your program.

Scroll down to the SwayControl section and press the toggle to allow SwayControl for that program.

SENSITIVITY LEVEL AND TRAILER STABILITY GAUGE



ADJUSTING THE SENSITIVITY LEVEL:

The SwayControl sensitivity setting allows you to adjust how responsive the system is to detecting sway. You can manage SwayControl sensitivity by tapping the orange SwayControl icon and adjusting the slider between low and high.

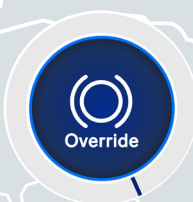
If you find that SwayControl is overactive, check that the installation location of the brake controller is in line with the recommendations - i.e. within 1m of the towball.

TRAILER STABILITY GAUGE:

The trailer stability gauge visually represents the trailer's stability. It widens as more instability is detected. If you frequently observe instability driving, consider reducing your speed or reviewing your trailer setup for safety.

USING MANUAL OVERRIDE

The manual override function allows you to manually engage the brakes on your trailer, without activating the vehicles brakes. The application of manual override can be used to manually mitigate trailer sway.



1

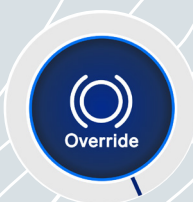
HOW TO USE:

Tap the central icon on the home page to activate the manual override.



2

Tap and hold the central icon to increase braking force if required.



3

Tap the central icon again to deactivate manual override.



IMPORTANT

Manual Override should only be used for stationary testing purposes, or to manually mitigate trailer sway. NEVER use manual override to slow the vehicle and trailer during normal operation - risk of brakes overheating and brake failure applies if using Manual Override excessively.

FULL VM1 TECHNICAL MANUAL

1

FULL TECHNICAL MANUAL

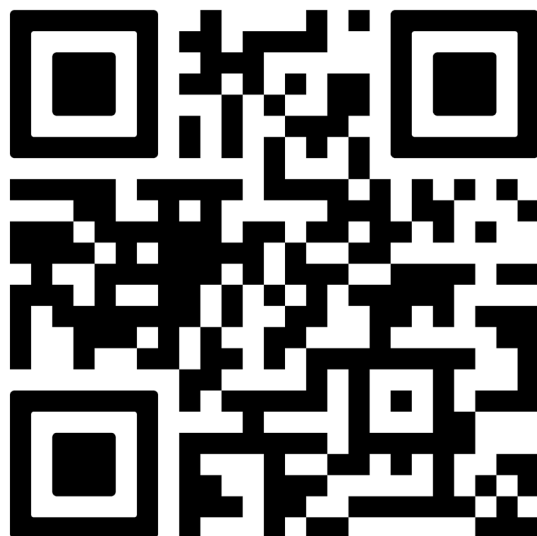
For the complete version of the technical manual.



2

VM1 INSTALL VIDEO

Watch our video on how to install the VM1 brake controller.





NEED HELP?

Call our customer service team on
1300 516 248

or check out our FAQ page online
elecbrakes.com/FAQ

