BMPRO

OWNER'S MANUAL

TRAILCHECK

TEAMBMPRO.COM

BMPRO

POWERING YOUR ADVENTURES

With over 50 years' experience in power solutions combined with manufacturing and design facilities in Melbourne, Australia, BMPRO are the leading experts in RV power and control management.

Inspired by the great outdoors, we have created a range of rugged, smart and reliable products to power your adventures.

Our range of battery, power and RV management and control systems gives you peace of mind when you are on the road, so that you can relax in even the most far flung destinations, knowing you have control over your power needs.

To learn more about the BMPRO range of products, please visit our website **teambmpro.com**

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Proudly designed in Melbourne by BMPRO, one of Australia's leading power solution experts. Our range represents high-quality products that will provide years of service.

DISCLAIMER: BMPRO accepts no liability for any loss or damage which may occur from the improper or unsafe use of its products. Warranty is only valid if the unit has not been modified or misused by the customer.

ABOUT THE TRAILCHECK

The TrailCheck is a wireless in-car monitor that allows you to monitor BMPRO'sTrailSafe, an emergency trailer breakaway safety system, and, if installed, BMPRO's SwayControl, a proactive electronic stability control system.

The TrailCheck will display the system status of the connected device with **BLUE**, **GREEN**, **ORANGE** or **RED** LED indicators.

KEY FEATURES

- Bluetooth connectivity.
- LED status indicators for full-system safety check.
- If paired with TrailSafe+ and SwayControl, forms the TowControl, an integrated towing safety system with in-car reporting.

INSTALLING THE TRAILCHECK

LOCATION

The TrailCheck must be installed in a location where it is visible to the driver. As the TrailCheck operates via Bluetooth,certain locations may provide a more reliable connection than others. If a suitable location can't be located, a wired remote is required.

The recommended location is on the side of the transmission tunnel or under the dash.

Ensure the surface is free from dust and grease to ensure good adhesion. Clean the surface with isopropyl (rubbing) alcohol and leave for 24 hours to achieve maximum adhesion before mounting the TrailCheck.

Once the surface is clean, the TrailCheck can be mounted.

MOUNTING THE TRAILCHECK

To mount the TrailCheck:

1. Apply the hook Velcro to the TrailCheck on the side to be attached to the vehicle by peeling off the clear tape.
2. Similarly attach the loop side Velcro to the vehicle where it will be mounted so that the tapes will align. Ensure the TrailCheck will not dislodge during severe braking.

   NOTE: Avoid contacting the tape with your fingers.
3. Connect the TrailCheck into a 15A (or lower) fused vehicle 12VDC accessory socket.

PAIRING THE TRAILCHECK TO THE TRAILSAFE

To pair the TrailCheck to the TrailSafe:

1. Ensure the TrailSafe is installed and confirm that the battery indication is working when the TrailSafe's pull pin is removed.
2. Insert the pull pin into the TrailSafe.
3. With the TrailCheck connected to the vehicle's 12VDC accessory socket, turn on the ignition.
4. Press the button on the rear of the TrailCheck for one second. The LED status indicator should flash **BLUE**.
5. Operate the brake pedal and watch the TrailCheck LED status indicator for up to 2 minutes.
   a. If the LED status indicator turns solid **BLUE** for two seconds, pairing to the TrailSafe was successful. The LED status indicator will then show either solid **GREEN**, solid **ORANGE** or solid **RED**. For more information, refer to the **LED Status Indicators** section.
   b. If the TrailCheck Status indicator changes to flashing **ORANGE**, pairing was unsuccfailed. Return to step 4 to try again.

If pairing continues to not work, try an alternate location for the TrailCheck. Pairing can be cleared by pressing and holding the button on the rear of the TrailCheck until the Status Indication starts flashing **ORANGE** (approximately 5 seconds)

The TrailCheck can be unplugged when not in use and will not require repeating the pairing sequence when reused.

TESTING THE TRAILCHECK

After completing installation of the TrailCheck, conduct a trial operation to check for faults.

Test with the engine running. If there is too much metal between the TrailSafe series or SwayControl and TrailCheck or a high level of electrical noise in the vehicle, TrailCheck may not provide an adequate connection.

The TrailSafe and/or the SwayControl should be checked prior to each use of the trailer to make sure they are operating correctly. This check should be done prior to the trailer being hitched to the towing vehicle.

The TrailSafe can be checked by depressing brake or pulling out the safety pin. This will activate the system and illuminate the LED status indicator on the side of the unit according to the **LED Status Indicators** section.

LED STATUS INDICATORS

LED STATUS KEY	
Continuous Flash	Solid Colour
Blink Every Few Secs	No Light

CALIBRATION

STATE	STATUS	CONDITION	SOLUTION
Initialisation pin in		The TrailSafe is in calibration.	Wait about 5 minutes until the LED displays a solid **PURPLE**.
		Completed 1st calibration stage.	Remove the pin.
Initialisation pin out		The pull pin is out when calibration starts.	Put the pull pin back in and wait for 1 minute, or power cycle the unit to restart calibration.
		The TrailSafe is in calibration.	Wait about 1 minute until the LED displays a solid **PURPLE**.
		Completed 2nd calibration stage.	Put the pin back in.
		The wiring voltage drop is exceeding 10% of the nominal voltage. The LED will flash both purple and red.	Check wiring and connections and consider increasing the wire size.
		The pull pin was removed before the calibration stage was completed. The LED will flash both purple and orange.	Put the pull pin back in to restart.
Initialisation complete		The TrailSafe has finished calibrating, and is calculating battery capacity.	Wait for the LED to move to standby mode. The LED may stay orange for some time, or may move to standby mode very quickly.

TRAILSAFE OPERATIONAL USE WITHOUT SWAYCONTROL

Once the TrailSafe has finished calibrating and is ready for operational use, the colour of the LED will change depending on the charge state of the battery.

NOTE: If you are using the TrailSafe+ alongside BMPRO's SwayControl, refer to the **TrailSafe+ Operational Use With SwayControl** section of this manual.

COLOUR	CONDITION
	The house battery capacity is sufficient for 15 minutes of emergency braking operation.
	The house battery may have insufficient capacity for 15 minutes of emergency braking operation. Check the battery to ensure at least 10Ah of house battery capacity is available.
	The house battery is not detected or there is insufficient capacity for 15 minutes of emergency braking operation. Charge or replace the house battery.

STATE	STATUS	CONDITION	SOLUTION
Standby mode		The TrailSafe is in standby as no brake activity has been detected for 1 minute. The colour will change depending on the charge state of the battery.	
Brake pedal depressed	For 1 minute	The colour will change depending on the charge state of the battery.	
Pin out		A trailer breakaway has occured. The colour will change depending on the charge state of the battery.	
		There is a TrailSafe breakaway switch fault. The LED will flash both orange and red.	Do not use unit. Replace the unit.
Battery flat	Always on	The battery is flat.	Charge or replace the house battery.
Other		The TrailSafe is in standby, or there is no power, or the voltage is less than: - 10.5V for lead-acid batteries - 11.5V for Lithium batteries	If necessary, check the TrailSafe by depressing the brake.

TRAILSAFE+ OPERATIONAL USE WITH SWAYCONTROL

The LED on the TrailSafe+ displays different indicators if used with BMPRO's SwayControl.

NOTE: If you are using the TrailSafe+ without BMPRO's SwayControl, refer to the **TrailSafe Operational Use Without SwayControl** section of this manual.

STATE	STATUS	CONDITION	SOLUTION
Battery flat	Always on	The battery is flat. ⚠ **Warning**: This state will override other LED indicators. Refer to the **Battery Flat** section for more information.	Charge or replace the house battery
Normal operation, battery sufficient			
Sway event active			
Standby mode		The TrailSafe is in standby as no brake activity has been detected for 1 minute, and the SwayControl is in "sleep" mode	
Battery insufficient		The house battery may have insufficient capacity for 15 minutes of emergency braking operation.	Check the battery to ensure at least 10Ah of house battery capacity is available
SwayControl not detected		The SwayControl is not detected by the TrailSafe+.	Check if the SwayControl is connected
No power		No power to SwayControl after a "wake-up" signal from the brake controller.	Check the quality of power, ground and brake controller wire connections. Check for any blown fuses on the tow vehicle and trailer
Battery over-voltage / under-voltage		There is a house battery overvoltage (> 20V) or undervoltage (< 3V) on the SwayControl.	Check the power source voltage. The required voltage is 12-15V

LED STATUS KEY	
Continuous Flash	Solid Colour
Blink Once Every 10 Secs	No Light
Blink Once Every Few Secs	Blink Twice Every Few Secs
Blink 3 Times Every Few Secs	Blink 4 Times Every Few Secs

STATE	STATUS	CONDITION	SOLUTION
Off-road mode		The SwayControl is disabled momentarily. The unit will return to normal operation when not on rough terrain. The LED will flash both green and red.	
Other		The three following conditions are met: ▪ The SwayControl is in "sleep" mode. ▪ The TrailSafe+ is in standby. ▪ The house battery capacity is sufficient for 15 minutes of emergency braking operation.	If necessary, check the TrailSafe by depressing the brake
		There is no power.	

Battery Flat

If the battery is flat, the LED will show a constant **RED**, regardless of any other condition except fault indicators.

Fault Indicators

STATE	STATUS	CONDITION	SOLUTION
System malfunction	 Always on	Either: ▪ The battery is flat. ▪ The SwayControl has suffered a system malfunction.	Charge the battery. If the battery is not flat, a service centre repair is required
		The SwayControl has suffered a system malfunction.	A service centre repair is required
		The SwayControl has no control of the trailer.	A service centre repair is required
Left brake short		There is a wiring short in the left-side brake.	Repair the wiring short
Right brake short		There is a wiring short in the right-side brake.	Repair the wiring short

If a service centre repair is required, please contact your authorised BMPRO SwayControl Authorised Repair Centre.

SERVICING

Do not attempt to service the TrailCheck yourself or dismantle, modify or repair the TrailCheck yourself; this will void your warranty. If your TrailCheck requires servicing, please consult your BMPRO dealer or visit **teambmpro.com** for assistance.

SPECIFICATIONS

TRAILCHECK	
Communications	Bluetooth Low Energy (BLE 5.0)
Operational Voltage	8-16V
Operational Temperature	0 - 50 ° C

WARRANTY TERMS AND CONDITIONS

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is provided by BMPRO Pty Ltd (59 646 354 127) ("BMPRO") for its products. Warranty benefits are applied along with any rights and remedies required by Australian State and Federal legislation that cannot be excluded. No part of this warranty excludes, restricts or modifies any State or Federal legislation relating to the supply of goods and services which cannot be excluded, restricted or modified.

Warranty

BMPRO warrants that the product will be free from any faults in materials and workmanship beginning from the original date of purchase under standard application, installation, use and service conditions, subject to the exclusions and limitations detailed below. The warranty period of the product is two years.

If, before the warranty period has ended, a fault occurs with the product and BMPRO finds the product is defective in materials or workmanship, BMPRO at its discretion will subject to further rights accorded by the Australian Consumer Law to either:

- Repair the defective product
- Replace the defective product
- Provide a refund to the purchaser for the price paid at purchase for the defective product.

Warranty Claims

Refer to your manual before using the product. Most BMPRO products are designed to be installed by a suitably qualified installer. The products should be carefully inspected by you or your installer before installation for any visible manufacturing faults. If a product has been installed incorrectly, BMPRO accepts no responsibility on top of our consumer guarantee obligations.

1. If a fault covered by warranty occurs, the purchaser must either contact the dealer where the product was purchased within 7 days, or BMPRO at the contact details listed.
2. All warranty claims must include: (a) proof of purchase of the product; (b) complete details of the alleged fault; (c) any relevant documentation related to the fault (such as photographs or maintenance records); (d) return material authorisation (RMA) number.
3. The product must be made available to BMPRO or its authorised installer for inspection and testing within 14 days of contacting BMPRO or the dealer.
4. The reasonable cost of delivery and installation of any products or components of products that have been repaired or replaced to the place of purchase notified to BMPRO is covered by the warranty provided by BMPRO, along with the reasonable costs of removal and return of any products determined by BMPRO to be defective.
5. If, on return to BMPRO or on investigation by BMRPO, inspection and testing determines there is no fault in the product, the purchaser must pay BMPRO's reasonable costs of testing and investigating the product, as well as transportation and shipping costs.

Register a Warranty or Repair with BMPRO

To register a warranty or repair with BMPRO:

1. Lodge a support request via teambmpro.com/technical-support or email customerservice@teambmpro.com
2. If agreed with the BMPRO Product Specialist team, register a warranty claim or repair via teambmpro.com/warranty-claim or email customerservice@teambmpro.com to obtain a Return Material Authorisation (RMA) number.
3. Package and send the product to the BMPRO Warranty Department. The BMPRO Product Specialist team will advise you where to send the product. Please mark RMA details on the outside of the packaging.
4. Ensure your package also includes a copy of the proof of purchase, a complete description of the fault and your contact details including phone number and return address.

Exclusions

This warranty will not be applicable where: (a) the product has been altered, modified or repaired by someone other than BMPRO, an authorised installer or a qualified auto electrician; (b) the product has not been installed properly by either the user or manufacturer; (c) BMPRO cannot establish a fault in the product after inspection and testing; (d) the product has been used for purposes other than that for which it was designed; (e) the fault in the product has occurred due to a failure by the purchaser to ensure proper use and maintenance of the product according to BMPRO's instructions, recommendations and specifications (including maintenance); (f) the product has been subjected to abnormal conditions, such as environmental, temperature, water, fire, humidity, pressure, stress or similar; (g) the fault has been caused by abuse, misuse, neglect or accident; (h) the fault has been caused by a power surge or other kind of fault in the supply of electricity; (i) unauthorised parts or accessories have been used on or in relation to the product; (j) the appearance of the Product has deteriorated; or (k) the fault is a result of common wear & tear.

Limitations

No express warranties or representations are made by BMPRO other than what is set out in this warranty. The absolute limit of BMPRO's liability under this express warranty is the repair or replacement of the product or part of the product.

Contact

BMPRO's contact details for warranty claims are:

Phone: (03) 9763 0962
Email: **customerservice@teambmpro.com**

Warranty Claim and Product Repair Form:
https://teambmpro.com/warranty-claim/

Registering your BMPRO product is an important step to ensure that you receive all the benefits you are entitled to.

Please complete the online registration form at **https://teambmpro.com/product-registration/** for your new product today.

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