

# REDFOOT®

## LEVELLING

### User Manual for



### Caravan Remote Flip Leg System

### And 12V EQ G2 Remote



Updated: October 2025

**WARNING!**

This is a 12VDC System **DO NOT** connect to your 24Volt House Battery

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**Warning:**

Redfoot Levelling does not promote the use of our levelling systems as a 'Tyre Jack' solution. If the owner/user were to use the levelling system to lift the vehicle off the ground to have access underneath the vehicle or for changing a tyre, they must use Jack Stands as the primary support. Jack Stands should be always in use as the primary support when wheels are off the ground for long durations.

Modification of any factory-supplied item may result in the denial of all warranty claims. Call Redfoot Levelling Solutions Technical Support prior to any modifications. Redfoot Levelling Solutions offers full installation support for authorised approved Installers only. End user installers must read and accept our Warranty and Terms and Conditions on the Invoice issued with this purchase.

**Danger:**

With any hydraulic application, holding position on a cylinder must be done with safety in mind. System failure may cause the jack(s) to retract or extend suddenly. When working under or near the vehicle, always use jack stands of appropriate rating to support the weight of the vehicle.

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## Panel Indicator LED's

There are a total of ten (7) LED indicators on the Redfoot Remote. The function of the LED's is detailed below.

|                                |                                                                        |
|--------------------------------|------------------------------------------------------------------------|
| <b>POWER LED</b>               | Blue when the power is ON<br>Blank when power is OFF                   |
| <b>JACK LED (Pairs or All)</b> | Blue when jacks(s) are selected<br>Blank when jack(s) are not selected |
| <b>BATTERY LED</b>             | Red when low battery<br>Blank when operating as normal                 |
| <b>FLASHLIGHT</b>              | ON when button on right side is pressed<br>Press again to turn OFF     |

## Remote Control Keypad Operation

To turn on/off the wireless remote control keypad press the on/off button as shown below. The indicator lights below will illuminate if you push the button in the 'On' position.



If for some reason your wireless remote control keypad battery is flat when it arrives, please connect it to a USB charging device (E.g. mobile phone charger) via the USB cord supplied. When connected the “BATT” light will illuminate **RED** and will change colour once fully charged.



**\*\*The following procedure assumes your cylinders are stowed in the “Retracted” position.**

## Extending Cylinders

**Note:** Cylinders can only be deployed in either pairs or all together.

Push either Front, Rear, Left, Right or All button according to which cylinder pair you wish to extend. Each corresponding light will illuminate **BLUE** to indicate these are the cylinders that will be extended. E.g. Front has been selected below.



Push the “Extend” button, the power light should flicker to indicate it is signalling and pairing to the Controller Board and the corresponding cylinders should now be travelling in a downward direction. You will hear the pump operating; it is important to verify the legs are planted on to the ground securely.



Continue operating the wireless remote-control keypad by 'Extend' or 'Retract' buttons and corresponding sides to achieve your desired level for your caravan.

**Note:** If the "All" button is pushed in the "Extend" situation, your system will not work.

### Retracting Cylinders

When you are ready to retract your cylinders, ensure everything is clear around the vehicle.

You can retract the cylinders in their paired configurations by pushing the corresponding Front, Rear, Left, Right or All button, and then press the "Retract" button. The power light should flicker to indicate it is signalling the Controller Board and the corresponding cylinders and should now be travelling in an upward direction. All cylinders will now rise until the pump reaches the required pressure and will automatically shut off.



**Important Note\*\*** visually check and confirm all jacks are retracted prior to travel.

## Helpful Hints

- If your motorhome is equipped with air suspension, it is recommended to start your motorhome and allow the chassis air to build before an All Retract. This will ensure adequate air supply to the chassis air valves.
- Your system may be equipped with a manual override option. Refer to the procedure for proper operation of this option. It is usually better to review this procedure prior to its actual use, rather than having to learn a new procedure in difficult environments.
- If the system has not been used (with the jacks stowed) for over 24 hours, it is recommended that you engage an All Retract prior to travel to re-pressurise the system.
- A lubricant, like BOESHIELD T-9 is recommended to clean and lubricate the cylinder shafts/rods and avoid corrosion. Ask one of our Redfoot team to purchase.

## Manual Override

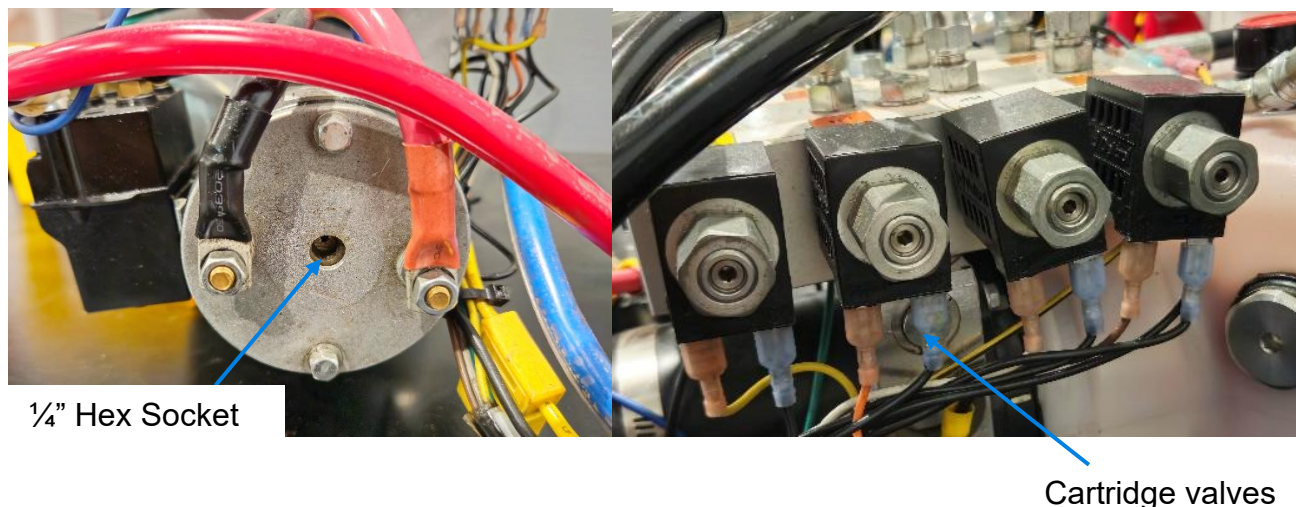
### 7846/7847 KS Pump

Refer to Figure 1. This pump is equipped with a manual override. Locate the 4 valves on the right side of the manifold. Locate the screws recessed at the end of the appropriate cartridge valves. Using a 1/8th hex Key, turn the screw(s) clockwise until seated in.

Remove the silver sticker on the front of the motor to reveal a 1/4" hex key fitting. Using the appropriately sized hex key socket and a drill capable of 2000 RPM (minimum).

To Retract: Run the drill in the counterclockwise direction. To Extend: Run the drill in the clockwise direction.

Figure 1. 7846/7847 KS Pump



Scan the QR code below with your phone to watch video tutorial.



### Caution!

Following manual override operation, failure to return all the valves to normal position may result in one or more of the jacks drifting down from their retracted position. Ensure all screws recess.

### *7001 SF Pump*

Refer to Figure 2. This pump is equipped with a manual override. Locate the 4 valves on the left side of the manifold. Locate the screws recessed at the end of the appropriate cartridge valves. Using a 1/8th hex Key, turn the screw(s) clockwise until seated in.

Using a 1/8<sup>th</sup> hex key, turn the recessed screw on the DV2 cartridge clockwise until seated. Turn and pull the red DV1 valve to approx. 180 °, this will allow the pump to be in retract mode. The valve knob will remain in the out position.

Place the pump handle into the emergency pump lever at the front of the pump. Crank the handle several times until all legs have retracted. This process will take some time to achieve full retract of the legs.

On the 7001 SF Pump the return and extend connections banks are on the opposite side to the standard 784X KS pumps. As seen in the diagram below, the return banks (striped box) are on the right side of the pump manifold and the extend (solid colour) banks are on the left side of the pump manifold.

Scan the QR code below with your phone to watch video tutorial.



#### **Caution!**

Following manual override operation, failure to return all the valves to normal position may result in one or more of the jacks drifting down from their retracted position. Ensure all screws recessed.

Figure 2. 7001 SF Pump



## Troubleshooting Guide

| Symptoms                                       | Possible Cause                   | Solution                      |
|------------------------------------------------|----------------------------------|-------------------------------|
| Controller will not turn on                    | Blown fuse at pump harness       | Replace fuse 20A              |
|                                                | Faulty ground or 12VDC power     | Trace and repair              |
|                                                | Low battery voltage              | Charge batteries              |
|                                                | Defective controller             | Call Redfoot Levelling        |
|                                                | Defective controller harness     | Trace and repair              |
| Controller turns on but jacks will not operate | Low battery voltage to pump      | Charge batteries              |
|                                                | Faulty ground or 12VDC power     | Trace and repair              |
|                                                | Defective keypad or controller   | Call Redfoot Levelling        |
|                                                | Defective pump motor or solenoid | Replace motor and/or solenoid |
|                                                | Other system defect              | Call Redfoot Levelling        |
| Jacks will extend but will not retract         | Low battery voltage - min. 10.8  | Charge batteries              |
|                                                | Bad motor or solenoid            | Replace motor and/or solenoid |
|                                                | Defective keypad or controller   | Call Redfoot Levelling        |
|                                                | Faulty ground or 12VDC power     | Trace and repair              |
|                                                | System defect                    | Call Redfoot Levelling        |

| Symptoms                                                | Possible Cause                                    | Solution                             |
|---------------------------------------------------------|---------------------------------------------------|--------------------------------------|
| Hydraulic pump inoperative                              | Low battery voltage - min. 10.5                   | Charge batteries                     |
|                                                         | Blown 20A fuse on pump harness                    | Replace fuse or breaker              |
|                                                         | Faulty ground or 12VDC power                      | Trace/Repair or replace              |
|                                                         | Defective pump motor or solenoid                  | Replace                              |
| Jack(s) bleed down from levelled or stowed position     | Air in hydraulic system                           | Purge/bleed air                      |
|                                                         | External fluid leak                               | Trace and repair                     |
|                                                         | Defective valve in pump                           | Clean or replace valve               |
|                                                         | Defective hydraulic jack/cylinder                 | Replace hydraulic cylinder           |
| Jack(s) are jerky or noisy when extending or retracting | Air in hydraulic system                           | Purge/bleed air                      |
|                                                         | Fluid level low                                   | Check fluid level and top up         |
|                                                         | Damaged cylinder seal                             | Call Redfoot Levelling               |
| Jack's will not retract from extended position          | Low battery voltage - min. 10.5                   | Charge batteries                     |
|                                                         | Low battery voltage or poor ground                | Change batteries/check ground return |
|                                                         | Damaged/Defective harness from controller to pump | Trace and repair                     |
|                                                         | Fluid level low                                   | Correct fluid level and add          |
|                                                         | Defective pump motor or solenoid                  | Replace                              |

## Installation of hoses to the manifold

### Jack Leg

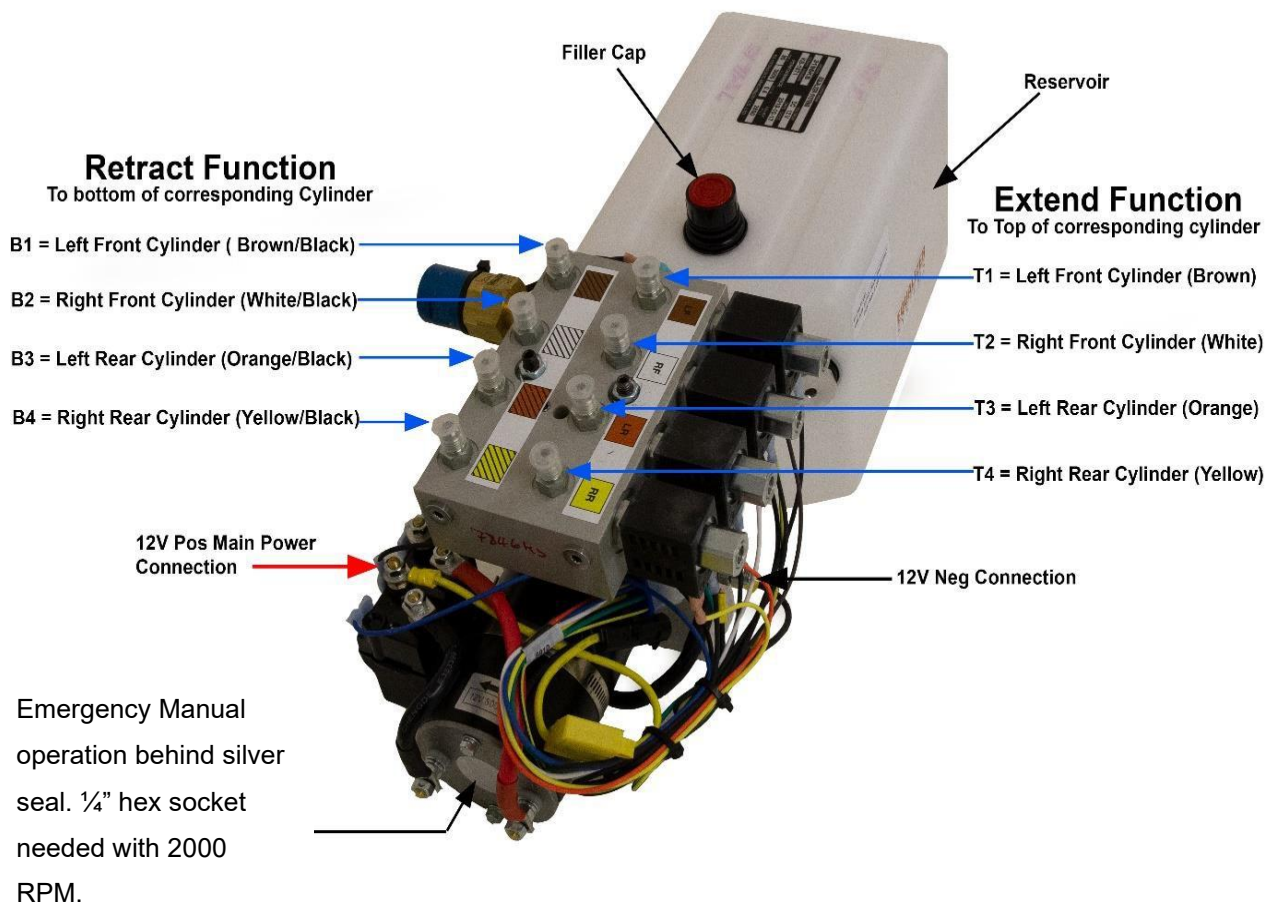
Left Front-Top  
Left Front-Bottom  
Right Front-Top  
Right Front Bottom  
Left Rear-Top  
Left Rear-Bottom  
Right Rear-Top  
Right Rear-Bottom

### Manifold Connection

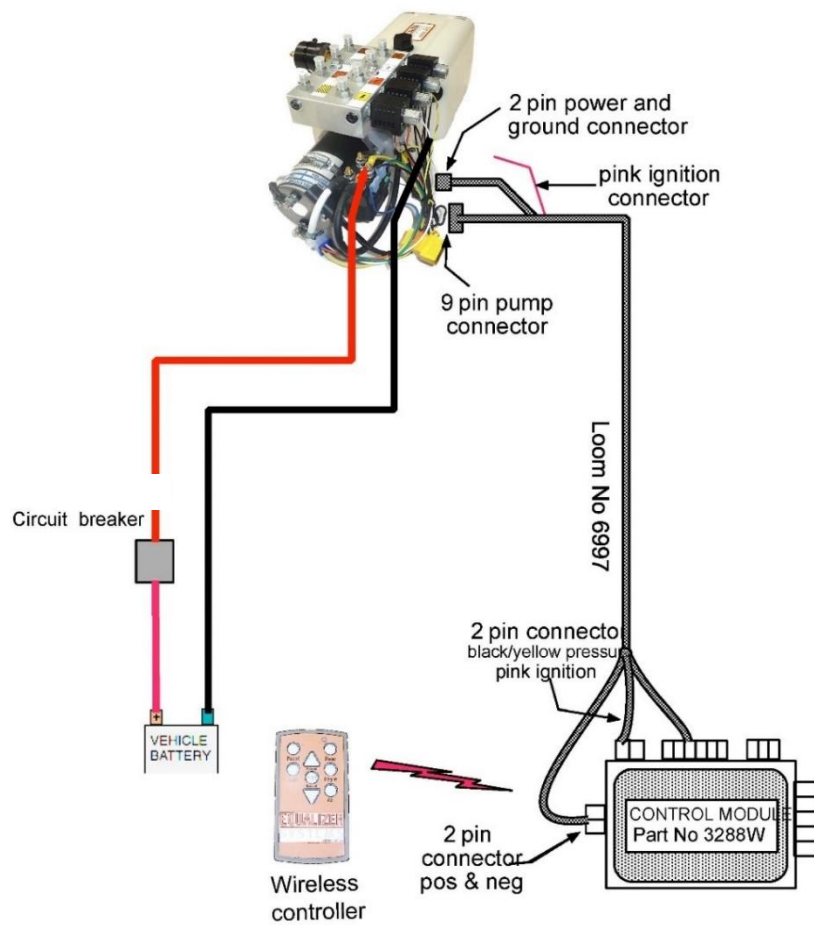
T-1 Brown Solid  
B-1 Brown Stripe  
T-2 White Solid  
B-2 White Stripe  
T-3 Orange Solid  
B3- Orange Stripe  
T-4 Yellow Solid  
B-4 Yellow Stripe

*7846/7847 KS Pump*

**Left side = Passenger Side of Vehicle**  
**Right side = Drivers Side of Vehicle**



## Wiring Harness



# Redfoot Maintenance Schedule

| Hydraulic System            |                       |                         |                        |                         |                           |                   |                           |                         |                       |                                   |                |
|-----------------------------|-----------------------|-------------------------|------------------------|-------------------------|---------------------------|-------------------|---------------------------|-------------------------|-----------------------|-----------------------------------|----------------|
| White Box = To Be Completed |                       |                         |                        |                         |                           |                   |                           |                         |                       |                                   |                |
| Months                      | Flush and Replace Oil | Check Bolt & Nut Torque | Check hoses & Fittings | Check Power Connections | Lubricate Cylinder Shafts | Check Fluid Level | Check Brackets for Damage | Replace Hydraulic Hoses | Pump Manifold Rebuild | Check Controller Safety Functions | Date Performed |
| 6                           |                       |                         |                        |                         |                           |                   |                           |                         |                       |                                   |                |
| 12                          |                       |                         |                        |                         |                           |                   |                           |                         |                       |                                   |                |
| 24                          |                       |                         |                        |                         |                           |                   |                           |                         |                       |                                   |                |
| 36                          |                       |                         |                        |                         |                           |                   |                           |                         |                       |                                   |                |
| 48                          |                       |                         |                        |                         |                           |                   |                           |                         |                       |                                   |                |
| 60                          |                       |                         |                        |                         |                           |                   |                           |                         |                       |                                   |                |
| 72                          |                       |                         |                        |                         |                           |                   |                           |                         |                       |                                   |                |
| 84                          |                       |                         |                        |                         |                           |                   |                           |                         |                       |                                   |                |
| 96                          |                       |                         |                        |                         |                           |                   |                           |                         |                       |                                   |                |
| 108                         |                       |                         |                        |                         |                           |                   |                           |                         |                       |                                   |                |
| 120                         |                       |                         |                        |                         |                           |                   |                           |                         |                       |                                   |                |
|                             |                       |                         |                        |                         |                           |                   |                           |                         |                       |                                   | Note           |

## Product Warranty Guide

Redfoot Levelling Pty Ltd

1. Only warranty claims with prior written or verbal authorisation from Redfoot Levelling will be recognised, all other claims will be denied.
2. Redfoot Levelling warrants levelling system components for a period of **one year** from the date of original sale of the vehicle. This warranty covers defects in material and workmanship only. Redfoot Levelling is not liable for any damage due to abuse, neglect, misuse, negligence, misapplication, error of operation, accidental or purposeful damage or damage due to an “Act of God” such as, wind or rain damage, flood, lightning or other natural causes of the like. Redfoot Levelling limited warranty is applicable to the Redfoot Levelling components only and does not apply to the vehicle, apparatus, or property to which it is attached. Warranty parts will be shipped at no charge if the repair is authorised by Redfoot Levelling representative. Purchased components used in authorised warranty repairs will be reimbursed at the original purchase price. All returns must be preauthorised by a Redfoot Levelling representative. Connotes will be supplied for their return unless prior arrangements have been made. Installers must receive and accept the appropriate Scope of Works from Redfoot Levelling prior to the commencement of any work.
3. Labour and freight expenses due to warrantable parts defects or workmanship will be reimbursed for the period of **one year** from the date of the original sale of the vehicle. Freight expenses will either be prepaid by Redfoot Levelling or reimbursed at the road logistic rate only. Any additional shipping charges or requirements are the obligation of the vehicle owner or service centre performing the warranty repair. The owner or Service Centre’s obligation may include overseas shipping charges, border fees, and any other additional fee of the like.
4. Prior authorisation is required before parts may be returned to Redfoot Levelling. Redfoot Levelling will supply a connote for the return goods.
5. Labour, parts, and freight credit (if applicable) will be sent after the parts are tested and the warranty claim is validated. Returned parts that are found to be in normal operating condition are not warrantable and will be charged to the owner or service centre. Redfoot Levelling reserves the right to charge back the service centre for labour claim payments previously submitted if the installation of the warranted part is found to be inadequate later.
6. Warranty labour will be reimbursed only for claims that have prior written or verbal authorisation from a Redfoot Levelling representative. Time associated with learning about the repair or excessive diagnostic and installation time will not be reimbursed. Warranty labour will be reimbursed at the authorised service centre’s published shop rate for that region. Overtime labour will not be reimbursed without

exception.

7. Replacement parts are warranted under the same guidelines listed in this guideline for the remainder of the original warranty or 90 days, whichever is longer. Proof of warranty repair date and original vehicle purchase date are required. No additional warranties expressed or implied are authorised by Redfoot Levelling.
8. All warranty works are to be completed and invoiced within 3-months of the Scope of Works date of issue.
9. Parts that are required to be returned to Redfoot Levelling, must be returned upon job completion and prior to warranty invoicing. Parts not returned within this period will be billed to the installer. Claims will be denied if the date submitted is greater than **30 days** from the repair.
10. Complete systems are not warranted unless authorised by a Redfoot Levelling representative. There are absolutely no exceptions to this clause.
11. Consideration should be taken regarding the location and protection of Redfoot Levelling's components prior to installation. Please reference our installation manuals for recommended locations and maintenance or visit [www.redfootlevelling.com.au](http://www.redfootlevelling.com.au) for more information. The failure of any Redfoot Levelling components due to extreme environmental conditions, improper installation or lack of maintenance will not be covered under the warranty.
12. Warranty coverage for parts or systems sold by non-authorised resellers will be at the discretion of Redfoot Levelling.
13. This warranty begins upon the sale date of the vehicle and is transferable, with limitation, subsequent owners are to provide the original sale date of the vehicle and proof of purchase.
14. Redfoot Levelling is not liable for loss of time, manufacturing costs, labour, material, loss of profits, direct or indirect damages incurred by the vehicle manufacturer.
15. Excessive warranty labour resulting from inadequate access to the Redfoot Levelling product will not be reimbursed.
16. Redfoot Levelling will not pay mark-up on warranty parts unless required by law.
17. Travel expenses, hotel, telephone, fuel, or any other expense of the like are not covered under the warranty.

No additional warranties expressed or implied are authorised by Redfoot Levelling.

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