

RedFoot

Levelling Systems

Powered by Equalizer

RedFoot Elite Auto Levelling Systems Owners Manual for Motorhomes



TITAN Trailer RV - Home of **RedFoot**
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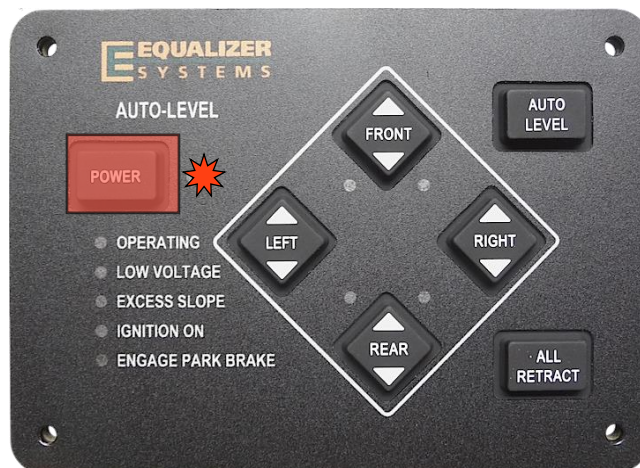
Panel Indicator LED's

There are a total of ten (10) LED indicators on the RedFoot Keypad. The function of these LED's is detailed below.

During typical operation, the LED's on the bottom left hand corner of the keypad should NOT be illuminated. The only LED that should light is the "OPERATING' LED, which should flash during operation.

'POWER' LED	ON Red when power is ON OFF when power is OFF FLASH every 1 sec. In Sleep Mode
'JACK' LED (4 each)	ON Red when jack(s) are deployed OFF when jack(s) are stowed
'OPERATING' LED	FLASHING Red w/ Auto Level or All Retract OFF when keypad is idle or 'sleeping'
'LOW VOLTAGE' LED	ON Red when voltage is below 10.5 VDC OFF when voltage is above 10.5 VDC
'ENGAGE PARK BRAKE' LED	ON Red when park brake is not set OFF when park brake is set.
'IGNITION ON' LED	ON Red when ignition is in the ON position OFF when ignition is OFF
'EXCESS SLOPE' LED	ON Red following an Auto Level attempt, if system cannot overcome slope OFF when slope is not excessive

• If the LOW VOLTAGE, ENGAGE PARK BRAKE, IGNITION ON or EXCESS SLOPE LED's illuminate, you have an 'error' condition that must be corrected prior to operating the jacks.



Auto-Level Operation

Power On: Push and release the Power button to engage power. The LED light next to the Power button should be RED when power is on. You will need to have the ignition key in the “off” position to extend the jacks. If you attempt to extend individual jacks or all jacks with the Auto-Level button, you will hear a deny tone from the keypad if the ignition key is in the improper position.

Auto-Level: Press the Auto-Level button and release. The system will send out a continuous series of beeps and the “Operating” LED will flash RED to let you know Auto-Level is operation and will automatically level the motorhome. Please refrain from moving inside the motorhome during the Auto-level process. When completed, the Keypad will signal the successful completion with a dual-stage tone. The Keypad may be left on once level has been achieved. The Keypad will enter “sleep mode” after five minutes of inactivity.

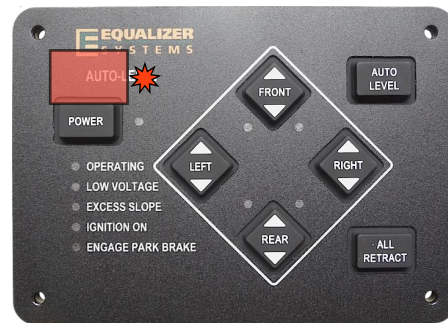
Setting the Null: Null is the term used to indicate the levelness of the motorhome. The null has been preset at the factory. If the motorhome is not level following an attempt to Auto-Level, you will need to level the motorhome and reset the null. To set the null, push and release the Power button on the Keypad to engage power. The LED light next to the Power button should be RED when the power is on. Level the motorhome by deploying jacks manually, or by simply parking the motorhome on a level site. You do not need to have the jacks deployed to set the null. Use a bubble level on a flat surface in the centre (or close) to the motorhome as a reference. Once the motorhome is level, turn the power off at the panel. Depress and hold the Auto-Level button and press and release the Power button and listen for a series of beep. After the Keypad has beeped 5 to 6 times, release the Auto-Level button (the Keypad will continue to beep as long as the Auto-Level button is held). The new null has been set and the panel will maintain this setting. Press and release the All Retract button to retract the jacks to the stowed position.

Helpful Hints

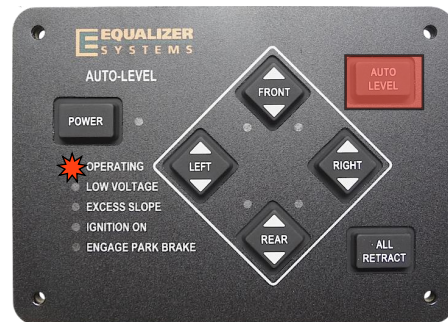
- If your motorhome is equipped with air suspension, it is recommended to start your motorhome and allow the chassis air to build before pressing All Retract. This will ensure adequate air supply to the chassis air valves.
- Do not allow excessive motion in the motorhome during the Auto-Level operation (don't move around in the motorhome). This could cause the system to level improperly.
- The Auto-Level is a microprocessor controlled system. Proper and adequate battery voltage and permanent chassis ground are essential.
-
- 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 the All Retract button prior to travel in order to re-pressurise the system.
- A lubricant, like T9 by Boeing Aircraft, may be used to clean and lubricate the cylinder shafts/rods.
- Contact our office on (07) 3286 1199 to order this product.

AUTO-LEVEL Operation- Keypad # 3103

Power On: Press and release the POWER button to engage power. All LED's on the panel will come on then most will go out. The LED next to the POWER button should be RED when power is on. If an ignition and or park brake disable circuit is present you will need to have the ignition key and the park brake in the proper position (depending on wiring scheme chosen) to extend the jacks. If you attempt Auto-Level or manual extend you will hear a "deny" tone if the key or park brake is in the improper position.

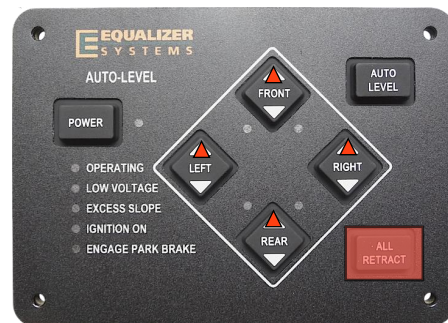


AUTO-LEVEL: Press the AUTO-LEVEL button and release. The system will send out a continuous series of beeps, the 'OPERATING' LED will flash RED to let you know AUTO-LEVEL is operating and will automatically level the motorhome. When completed, the keypad will signal a successful level with a dual-level tone. Press and release the POWER button. Note: The keypad may be left on once level has been achieved. The keypad will enter "sleep mode" after five minutes of inactivity. Note: The jacks down LED lights must be off for Auto-Level to function. If needed, press the ALL RETRACT button to clear and then Auto-Level should function.



Retracting the Jacks: To retract all jacks simultaneously, press and release the All RETRACT button. All jacks will automatically retract and return to stowed position. The pump will run in retract mode until all of the jacks are fully stowed (plus an additional 5 seconds) up to a maximum of 60 or 90 seconds). This is the proper method for retracting the jacks prior to travel. You may stop the ALL RETRACT by pressing any button on the keypad.

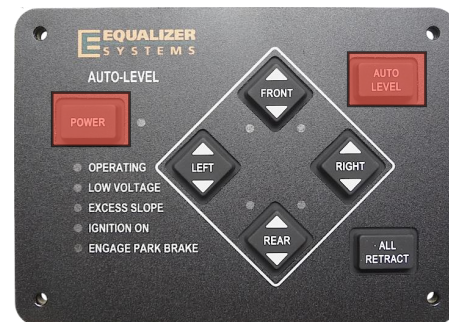
Jacks may be retracted in pairs by using the UP ▲ button for each end or side for levelling purposes however the ALL RETRACT must be used to fully stow the jacks prior to travel. The jacks down LED's will turn off, indicating the jacks are in the "stowed" position.



Power OFF: Press and Release the Power Keypad Button jacks should be in the stowed position.

Visually confirm all jacks are retracted prior to travel.

Setting the Null: The Null or "level position" has been preset from the factory. However, if the coach is not level following an attempt to AUTO-LEVEL, the Null is easy to reprogram. To set the Null, push and release the POWER keypad button to engage power. The LED next to the POWER button should be lit RED when power is on. Level the coach by deploying jacks manually (using the DOWN ▼ keypad buttons, extend jacks until the motorhome is level), or by simply parking the motorhome on a level site. You do not need to have jacks deployed to set the Null. Use a bubble level on a flat surface in the centre of the motorhome as a reference. Once the motorhome is level, turn the POWER off at the panel. Depress and hold the AUTO-LEVEL keypad button. Continue to hold the AUTO-LEVEL button and press then release the POWER button listen for a series of beeps.



Manual Operation

Power On: Push and release the Power Keypad button to engage power. All lights will come on then most will go out. The LED light next to the Power button should be lit RED when power is on. If the levelling system has been installed into the ignition disable circuit, you will need to have the ignition key in the “off” position to extend the jacks. If you attempt to extend individual jacks by pressing the Down Keypad buttons or all the jacks with the Auto-Level button, you will hear a “deny” tone from the keypad if the ignition key is in the improper position.

Planting The Jacks: Using the Down Keypad button, extend each jack until they contact the ground (this is referred to as “planting” the jacks). As you extend each jack, an LED light on the Keypad will indicate the jack is out of the “stowed” position. **Do not manually overextend individual jacks. This may cause unwanted stress on the motorhome or the jacks.**

Levelling the Motorhome/ bus/ speciality vehicle: Use a bubble level on a flat surface in the centre (or close) to the motorhome. Level the vehicle by using the Down or Up Keypad buttons until the vehicle is level. Jacks may be operated individually or in pairs as long as they are operated in the same direction. Do not attempt to lift the vehicle’s tyres off the ground. The Keypad may be left on, once level has been achieved. The Keypad will enter “sleep mode” after five minutes of inactivity.

Note: There are specific instances when manual extension of one or more jacks is inhibited (deny tone when Down is depressed). This situation is caused by the ‘anti-twist’ protocol in the software installed in the Controller. Simply stated, the ‘anti-twist’ protocol denies jack extension if the system senses that a specific corner of the motorhome is approximately 3 degrees higher than the rest. You will be able to extend the other jacks to overcome the slope. *If the system incorrectly senses excessive slope, this can be overcome by re-setting the null. This will allow manual extension of all jacks.*

Retracting the Jacks: Use the All Retract button to retract the jacks prior to travel.

The RedFoot levelling system does provide the ability to retract the jacks using the UP buttons for each pair of jacks. However, these buttons are not intended to be used for retracting the jacks to their stowed position prior to travel. The individual Up arrows are to be used only for retracting the jacks to help level the coach. The All Retract button must be pressed to insure the system is ready/safe for travel. All jacks will automatically retract and return to stowed position when the ALL RETRACT button is pressed and released. The pump will run in retract for approximately 5 seconds after the last jack has been fully retracted- or until a time limit of 90 seconds has been reached.

It is always the responsibility of the motorhome operator to visually confirm that the jacks are fully retracted and safe for travel

Manual Operation- Keypad # 3103

Power On: Press and release the POWER keypad button to engage power. All LED's will come on then most will go out. The LED next to the POWER button should be lit RED when power is on. If an ignition and/or park brake disable circuit is present, you will need to have the ignition key and the park brake in the correct position (depending on wiring scheme chosen) to extend the jacks. If you attempt to extend jacks by pressing the DOWN▼ keypad buttons or all jacks with the AUTO-LEVEL button, you will hear a “deny” tone from the keypad if the ignition key and or park brake is in the improper position.

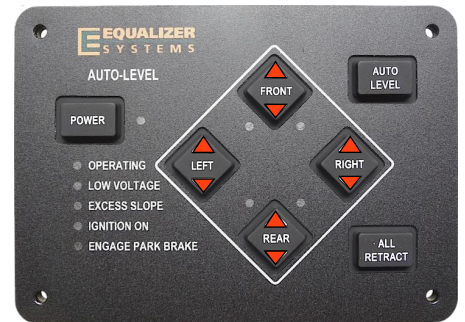


Planting the Jacks: The jacks will be extended in pairs Fronts or Rears or Left or Right Using the DOWN▼ (extend) keypad buttons, extend the jacks until they contact the ground (this is referred to as “planting” the jacks). As you extend each pair of jacks the corresponding LED jack status lights will come on to indicate jack(s) are out of the “stowed” position. Jacks will be operated in pairs. Extend and plant the front jacks first. Then extend and plant the rear jacks. Only after planting the fronts and then the rears, should side to side corrections (levelling) be attempted. This process will stabilise all four corners and minimize twist prior to the levelling process.



Do not manually over extend jacks. This may cause unwanted stress on the motorhome or the jacks.

Leveling the Motorhome: Use a bubble level on a flat surface in the centre of the coach as a reference. Level the vehicle by using DOWN▼ (extend) or UP▲ (retract) keypad buttons until the vehicle is level. Front to rear then side to side. Jacks will be operated in pairs. Do not attempt to lift the vehicle tyres off the ground. Only lift (extend) enough to level and stabilise the unit. Once level, press and release the POWER button to turn off the keypad. Note: The keypad may be left ON once level has been achieved. The keypad will enter “sleep mode” after five minutes of inactivity.



Retracting the Jacks: To retract all jacks simultaneously, press and release the ALL RETRACT button. All jacks will automatically retract and return to stowed position. The pump will run in retract mode until all of the jacks are fully stowed (plus an additional 5 seconds- up to a maximum of 60 or 90 seconds). This is the proper method for retracting the jacks prior to travel. You may stop the ALL RETRACT by pressing any button on the keypad. Jacks may be retracted in pairs by using the UP▲ button for each end or side for levelling purposes. However, the ALL RETRACT must be used to fully stow the jacks prior to travel. The jacks down status LED lights will turn off, indicating the jacks are in the stowed position.



- **Power OFF:** Press and release the POWER keypad button.

Visually Confirm all Jacks are Retracted Prior to Travel

Note: There are specific instances when manual extension of one or more jacks is inhibited (deny tone when Down is depressed). This situation is caused by the 'anti-twist' protocol in the software installed in the Controller. Simply stated, the 'anti-twist' protocol denies jack extension if the system senses that a specific corner of the coach is approximately 3 degrees higher than the rest. You will be able to extend the other jacks to overcome the slope. *If the system incorrectly senses excessive slope, this can be overcome by re-setting the null. This will allow manual extension of all jacks.*

Setting the Null: The Null or "level position" has been preset from the factory. However, if the motorhome is not level following an attempt to AUTO-LEVEL, the Null is easy to reprogram. To set the Null, push and release the POWER keypad button to engage power. The LED next to the POWER button should be lit RED when power is on. Level the motorhome by deploying jacks manually (using the DOWN ▼ keypad buttons, extend jacks until the motorhome is level), or by simply parking the motorhome coach on a level site. You do not need to have jacks deployed to set the Null. Use a bubble level on a flat surface in the centre of the motorhome as a reference. Once the motorhome is level, turn the POWER off at the panel. Depress and hold the AUTO-LEVEL keypad button. Continue to hold the AUTO-LEVEL button and press then release the POWER button, and listen for a series of beeps. After the panel has beeped 5 to 6 times, release the AUTO-LEVEL button (the keypad will continue to beep as long as the AUTO-LEVEL button is held). The new Null has been set and the system will maintain this setting. Press and release the ALL RETRACT button to retract the jacks to the stowed position. **Remember to re-set the Null after manually levelling the motorhome.**

Visually confirm all jacks are retracted prior to travel.

**WARNING! THIS IS A
12VDC SYSTEM.
DO NOT CONNECT TO YOUR
24 VOLTS HOUSE BATTERY**

Safety Input Wiring

Two inputs are provided to ensure operational safety. These wires are pink and black w/yellow stripe. See schematic on Page 14.

These inputs can be wired in several possible configurations:

Ignition disable: This would prevent extension of the legs when the ignition (Key) is turned to the engine run position.

Retraction would be allowed.

- Connect the Pink wire to an ignition ON (12 VDC positive) source.
- Connect the Black/Yellow wire to ground (12 VDC negative).

Automatic retract: This wiring method will result in automatic retraction of the jacks when the ignition key is turned to the engine run position.

- Connect the pink wire to an ignition ON (12 VDC positive) source.
- Tape or protect end of the black/yellow wire so that it can not come into contact with ground or other wires.

Note: It is important that users visually verify the jacks are retracted after an automatic retraction has been initiated.

Other options for safety wiring exist. It is possible that a park brake switch or a transmission switch can be used to create other possible extension deny or automatic retract functions.

For example if an automatic retraction was required, but wanted the ability to run the engine without the jacks retracting. The black/yellow could be connected to a park brake switch so that it is grounded when the brake is applied and the ground is removed when the brake is released. This assumes the pink wire is connected to an ignition ON (12 VDC positive) source.

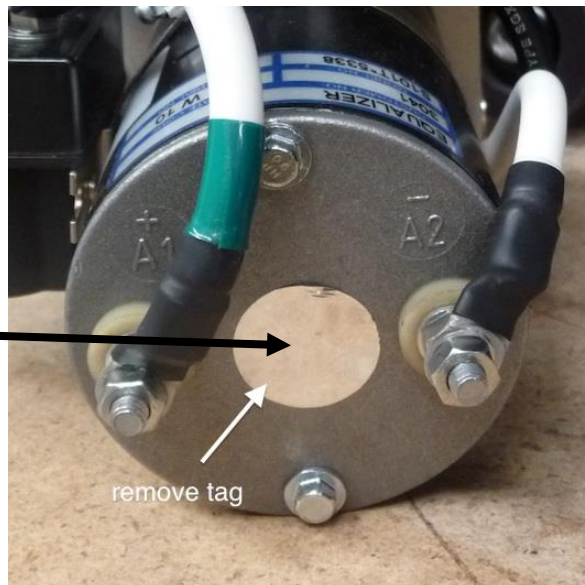
Manual Override Procedure for Redfoot Elite Auto System

Note: Not all systems have this manual override option

Pump #3043

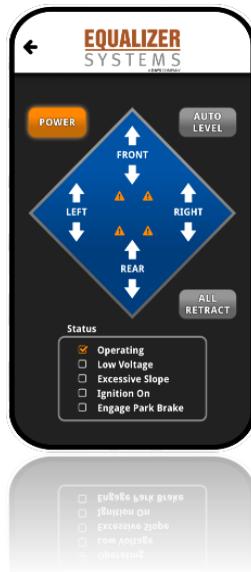
- Your hydraulic motor may be equipped with a manual override output shaft. You must use a drill with a 7/16" (11mm) socket driver.
- The drill must be capable of producing a minimum of 2000 r.p.m. for the pump to develop appropriate pressure output.
 - Your pump assembly may have a hand pump in place of the motor with manual override shaft. If this is the case, you may pump the hand pump in lieu of using the 2000 r.p.m. drill and the 7/16" (11mm) socket driver.

Remove this end cover
for access to the
manual drive



- **Care must be taken to ensure neither the drill nor the socket contact any + or - wires or hydraulic hoses while in use.**

EQ Smart Level App Option



The industry's new standard. Changing the way levelling is done. Level your motorhome with your smart phone or smart device. Android & iPhone compatible. The new Bluetooth module #3427 is easy to install. It plugs into your existing keypad. This is compatible with keypad #'s 2318, 3012, 3103, and 3104. Contact *RedFoot* for more information to purchase and install this function.

Operation/Installation for Bluetooth Module

***To download the app in the Android App store, click the Google Play link below. This will take you right to the *EQ Smart Level*. Make sure your Bluetooth setting is turned on or the app will not connect to your coach.



***To download the app in the iTunes App store, click the Apple App store link below. This will take you right to the *EQ Smart Level*. Make sure your Bluetooth setting is turned on or the app will not connect to your coach.



Once the app is downloaded please follow the instructions to level your motorhome.

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EQ Smart Level Installation

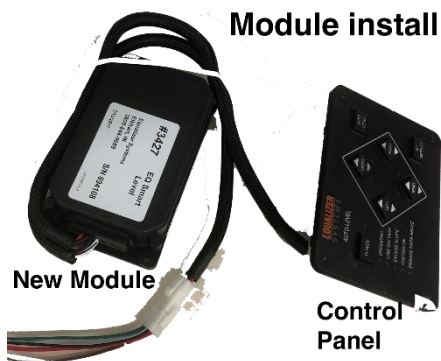


Keypad #3103

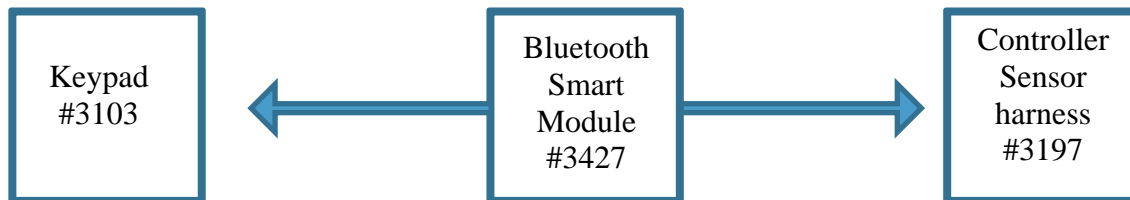


Back of Keypad

Remove the Keypad #3103, four corner screws. On the back you will see the 4 pin connecting plug. Remove this plug. Insert the matching 4 pin plug from the new Bluetooth module #3427 into the keypad.



Now you have to plug the 4 pin plug cable you removed from the Keypad into the other plug on the NEW Bluetooth module #3427. So, the NEW Bluetooth module has been inserted between the Keypad and the Controller Sensor Harness connector.



Troubleshooting Guide

Symptoms	Possible Cause	Solution
Keypad will not turn on	Blown fuse at pump harness	Replace fuse 20A
	Faulty ground or 12VDC power	Trace and repair
	Low battery voltage - min. 10.8	Charge batteries
	Defective keypad or controller	Call <i>REDFOOT</i>
	Defective keypad or controller harness	Trace and repair
Keypad 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 <i>REDFOOT</i>
	Defective pump motor or solenoid	Replace motor and/or solenoid
	Other system defect	Call <i>REDFOOT</i>
Jacks will extend but will not retract	Low battery voltage - min. 10.8	Charge batteries
	Park brake not set	Set park brake
	If bi-rotational pump, bad motor or solenoid	Replace motor and/or solenoid
	Anti-twist software protocol has stopped further action	Lower opposite side of motorhome and/or reset Null and then level motorhome
	Ignition switch in wrong position	Check and change as needed
	Defective keypad or controller	Call <i>REDFOOT</i>
	Faulty ground or 12VDC power	Trace and repair
	System defect	Call <i>REDFOOT</i>
AUTO Level will not level	System Null is to set	Set Null
	Controller has been set wrongly or has moved	Check controller orientation
	Ignition switch in wrong position	Check and change as needed
	Damaged or defective keypad or controller harness	Call <i>REDFOOT</i>
	Defective keypad or controller	Call <i>REDFOOT</i>
	Other system defect	Call <i>REDFOOT</i>

Troubleshooting Guide

Symptoms	Possible Cause	Solution
Auto-Level stops mid-cycle	Low battery voltage - min. 10.8	Charge batteries
	Excessive motion during levelling sequence	Reset keypad and retry
	Damaged or defective controller	Check and change if needed
	Damaged or defective keypad or controller harness	Call <i>REDFOOT</i>
	Other system defect	Call <i>REDFOOT</i>
Jack LED's on keypad staying on	Defective pressure switch or wiring	Trace/Repair or replace
	Defective keypad/controller or pump harness	Trace and repair or replace
	Defective keypad or controller	Call <i>REDFOOT</i>
	Low system pressure caused by fluid leak or low fluid level	Correct fluid level or leak
Hydraulic pump inoperative	Low battery voltage - min. 10.8	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
Jack's will not retract from extended position	Low battery voltage - min. 10.8	Charge batteries
	Low battery voltage or poor ground	Change batteries/check ground return
	Damaged/Defective harness from keypad to controller or controller to pump	Trace and repair
	Fluid level low	Correct fluid level and add
	Defective pump motor or solenoid	Replace

Pump Pack #7846

B1 = LEFT FRONT JACK
(brown /black)

B2 = RIGHT FRONT JACK
(white/black)

B3 = LEFT REAR JACK
(orange/black)

B4 = RIGHT REAR JACK
(yellow/black)

G1 coupling (if fitted)

12V+VE MAIN POWER
CONNECTION

EXTEND FUNCTION

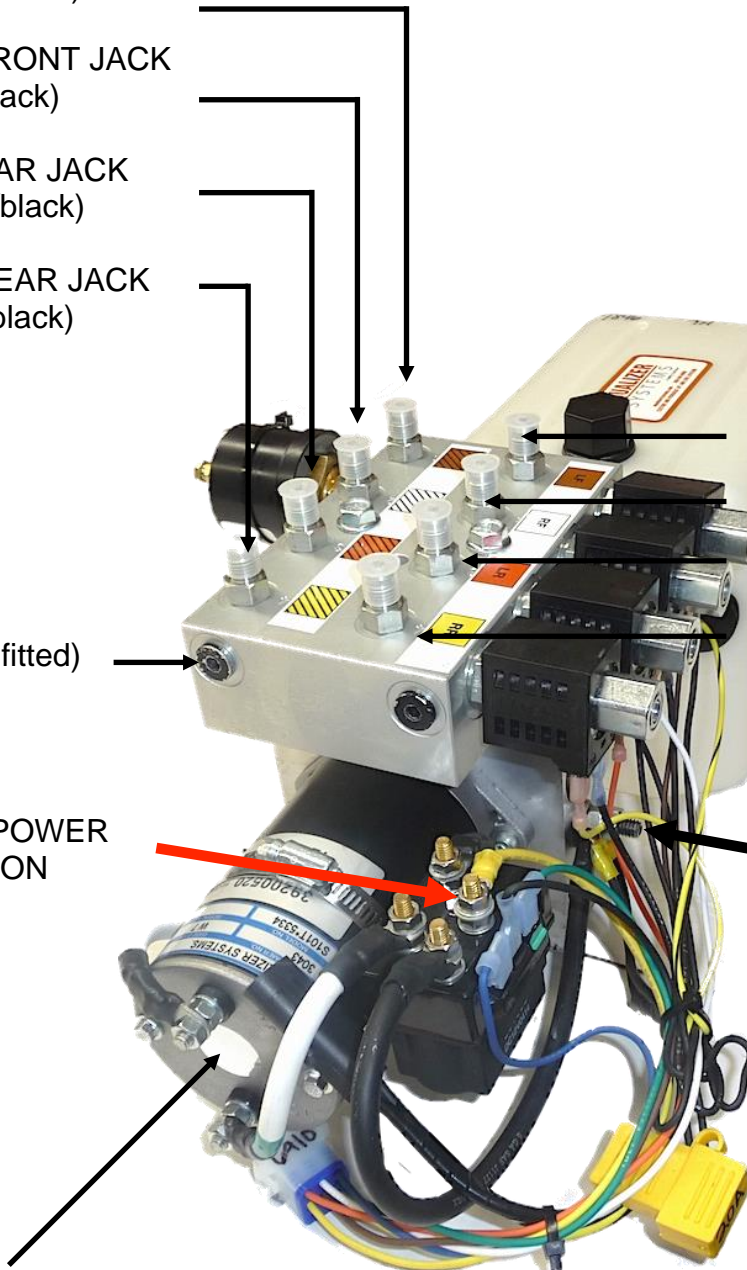
T1 = LEFT FRONT JACK (BROWN)

T2 = RIGHT FRONT JACK (WHITE)

T3 = LEFT REAR JACK (ORANGE)

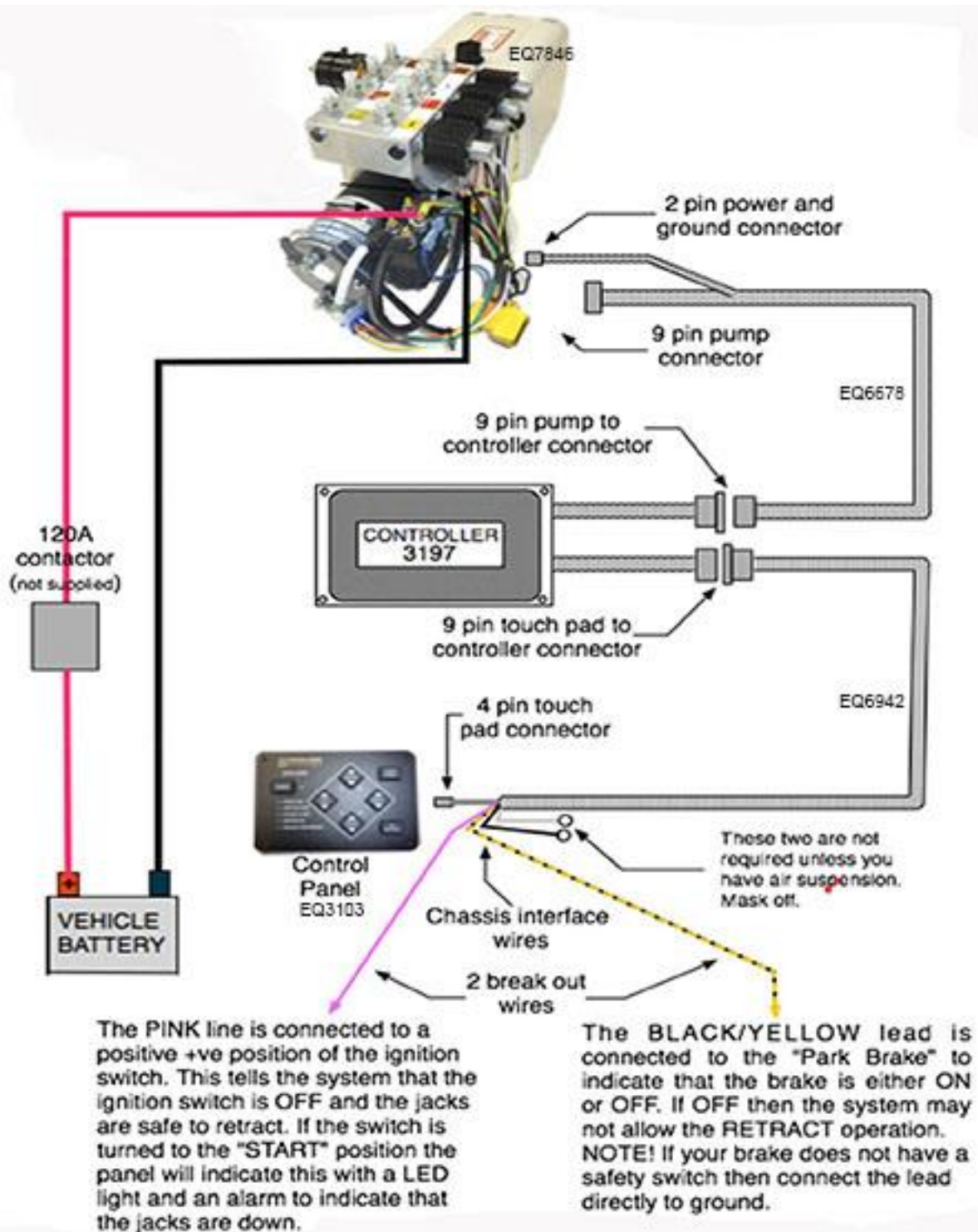
T4 = RIGHT REAR JACK (YELLOW)

12V -VE MAIN
POWER



Emergency manual operation
behind the silver seal. Remove seal
and use a 3/16" hex drive on a
power drill. Sped required 2000rpm

WIRING SCHEMATIC



PRODUCT WARRANTY GUIDE

TITAN TRAILER RV – *RedFoot Levelling*

1. Only warranty claims with prior written or verbal authorisation from TITAN TRAILER RV will be recognised, all other claims will be denied.
2. TITAN TRAILER RV 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. TITAN TRAILER RV 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 occurrence of the like. TITAN TRAILER RV limited warranty is applicable to the TITAN TRAILER RV 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 an TITAN TRAILER RV representative. Purchased components used in authorised warranty repairs will be reimbursed at the original purchase price.
3. Labor and freight expenses due to warrantable parts defects or workmanship will be reimbursed for a period of one year from the date of original sale of the vehicle. Freight expenses will either be prepaid by TITAN TRAILER RV 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, brokerage fees and any other additional fee of the like.
4. Warranty labor will be reimbursed only for claims that have prior written or verbal authorisation from an TITAN TRAILER RV representative. Warranty labor compensation is required to correspond with the “Warranty Parts Replacement Time Guideline” published by TITAN TRAILER RV. Any warranty repair not listed on this guideline will require prior authorisation from an Equalizer Systems representative. A reasonable time allowance will be determined by the Equalizer Systems representative. Any warranty repair that is not listed on this guideline that is performed without prior authorisation will be denied without exception. Time associated with learning about the repair or excessive diagnostic and installation time will not be reimbursed. Warranty labor will be reimbursed at the authorised service centre’s published shop rate if the rate is reasonable for that region. Overtime labor will not be reimbursed without exception.
5. Labor, 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. TITAN TRAILER RV reserves the right to charge back the service centre for labor claim payments previously submitted if the installation of the warranted part is found to be inadequate at a later date.
6. Claims will be denied if the date submitted is greater than 30 days from the repair date.
7. Prior authorisation is required before parts may be sent back to TITAN TRAILER RV. A Return Authorisation Number is required for items to be accepted.
8. Complete systems are not warranted unless authorised by an TITAN TRAILER RV representative. There are absolutely no exceptions to this clause.
9. Consideration should be taken regarding the location and protection of TITAN TRAILER RVs’ components prior to installation. Please reference our installation manuals for recommended locations and maintenance, or visit www.titanrv.com.au for more information. The failure of any TITAN TRAILER RVs’ component due to extreme environmental conditions, improper installation, or lack of maintenance will not be covered under warranty.

11. This warranty begins upon the original sale date of the vehicle and is transferable, with limitation, to subsequent owners upon furnishing the original sale date of the vehicle and proof of purchase.

12. TITAN TRAILER RV is not liable for loss of time, manufacturing costs, labor, material, loss of profits, direct or indirect damages incurred by the vehicle manufacturer.

13. Excessive warranty labor resulting from inadequate access to the TITAN TRAILER RV product will not be reimbursed.

14. TITAN TRAILER RV will not pay a markup on warranty parts unless required by law.

15. Travel expenses, hotel, telephone, fuel or any other expenses of the like are not covered under warranty.

16. All 'Out of Warranty' repairs will have a flat rate inspection fee of \$190 Inc GST. There will be an additional charge of \$95 Inc GST per hour for repair works carried out beyond the inspection diagnostic time.

Replacement Parts:

1. Replacement parts are warranted under the same guidelines listed above 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 TITAN TRAILER RV.

TITAN TRAILER RV – *RedFoot Levelling*

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