

WIRELESS TRI-JACK

Effective July 2017

● Installation ● Operation ● Maintenance

SAFETY ALERT SYMBOLS

Safety Symbols alerting you to potential personal safety hazards. Obey all safety messages following these symbols.



WARNING

Avoid possible
Injury or death



CAUTION

Avoid possible injury
and/or property damage

FOR YOUR SAFETY READ ALL INSTRUCTIONS BEFORE OPERATING

Installer: Provide these instructions to the consumer.

Consumer: Keep documents for future reference.

Our remote control is designed for use only with Lippert Power Jacks. There are several types of Power Jacks; some with remote capability and some without; they are not interchangeable.



WARNING

PERSONAL INJURY & PROPERTY DAMAGE

- To deactivate the wireless system when you are finished, press and release the "On/Off" button. The blue LED will turn off.
- Only operate jack system when trailer is unoccupied.
- Store the remote in a secure place, away from children.

REMOTE CONTROL SPECIFICATIONS:

DESCRIPTION	SPECIFICATIONS
Channels:	1
Frequency:	433 MHz
Operating Temperature Range:	-20°C to 120°C
Power Source:	23A
Weight:	2.7 ounces

FCC Compliance Statement - Remote Control P/N 670908

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

You do not need an FCC license to operate the wireless remote. However; any changes or modifications to the device will void the user's authority to operate the equipment.



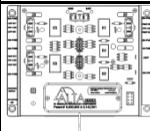
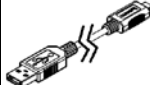
WARNING EXPLOSION

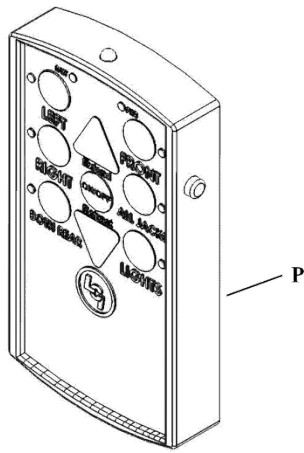
- To avoid possible interference with blasting operations, do not use your remote near ELECTRICAL BLASTING CAPS or in a BLASTING AREA or in areas posted: TURN OFF TWO-WAY RADIOS. Obey all signs and instructions.
- Do not use the remote near explosive atmospheres.

Explosive atmospheres are often, but not always, clearly marked. They include fueling areas, fuel or chemical transfer or storage facilities: areas where the air contains chemicals or particles, such as grain, dust, or metal powders, and any other area where you would normally be advised to turn the vehicle engine off.

WIRELESS REMOTE KIT COMPONENTS

82615 Wireless Remote Kit with 3 Jacks and 1 Auxiliary

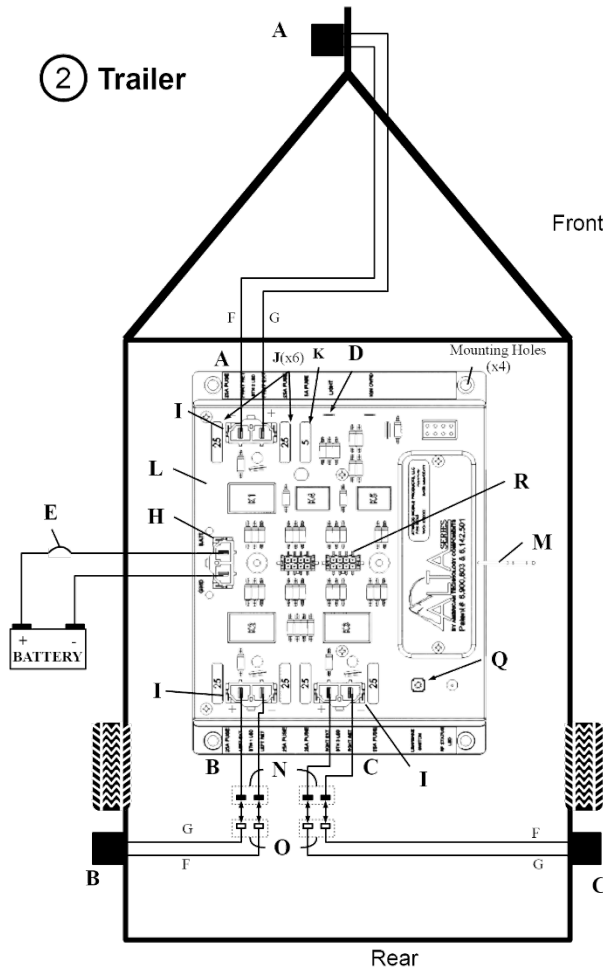
	Part Number	Title	Qty.
	703747	Controller with 3 Jacks and 1 Auxiliary	1
	670908	Remote with 3 Jacks and 1 Auxiliary	1
	670910	Wireless Remote IOM	1
	670904	Wireless Remote Quick Start Guide	1
	670911	Wireless Remote Holder	1
	670905	USB Recharge Cable	1



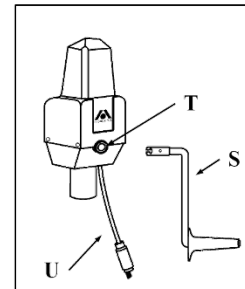
① Remote

- A - Front Jack
- B - Left Jack
- C - Right Jack
- D - Light supply
- E - 40 AMP Circuit Breaker for all camper jacks or 60 AMP resettable circuit breaker for 8AWG battery wire.
- F - Red (-) Motor Gear Box Lead
- G - Yellow (+) Motor Gear Box Lead
- H - Input Power Terminal Block
- I - Output Jack
- J - Jack 25A Fuse
- K - Light 5A Fuse
- L - Relay Module (RF receiver)
- M - Antenna
- N - Male Connector
- O - Female Connector
- P - Remote
- Q - Relay Module Button
- R - Control Interface
- S - Manual Override Handle
- T - Alignment Tube
- U - Power Jack Disconnect

② Trailer



③ Manual Override



INSTALLATION



CAUTION PRODUCT DAMAGE

- Disconnect power to the power relay module prior to high potential ("HiPot") testing of the trailer or the microprocessor will be damaged.

Note: Fig 2 is the overhead view of a tri-jack trailer with power relay module (shown flat for clarity.) With all installations, correct polarity must be observed as noted on the circuit board next to (H). The unit will not function when the input power is installed in reverse.

1. Install the power relay module in a clean, dry interior area protected from moisture. Use the four (4) 3/16" diameter holes for mounting the module relay (L). Position the base on the mounting surface and secure it using appropriate hardware for the wall material. Orient antenna (M) straight away from base. Permanently secure antenna to mounting surface with appropriate hardware. Mount the base RF receiver unit (L) in the selected target location. Take care to ensure that the antenna on the board is not located next to other electrical wiring which could interfere with operation. Take care to ensure that the target location has good RF reception (avoid "faraday cage" scenarios, i.e. metal box).



CAUTION PRODUCT DAMAGE

- Failure to orient antenna properly will result in intermittent operation of the wireless remote system.

2. Supply power to unit: The unit operates from a +12 VDC battery and must be supplied through a 40 AMP circuit breaker (E). Route the #8 AWG, +12 VDC from the circuit breaker and the ground wiring, to the terminal block (H). Terminate the wires in the labeled positions.
3. Route the two #10 AWG wires from each jack to the output jack terminal blocks (I). Refer to the labels next to each terminal position for front, left rear, and right rear jacks. Connect the wires for each jack.
4. Lights (or other lower current appliances) may be connected to the light supply connection (D). The positive (+) power conductor from the light will be connected here with the negative (-) connected to battery negative (-).
5. Install the optional Manual Switch Panel near the floor just inside the door of the trailer or other enclosed and weather resistant compartment. Plug the optional Control Cable into the Control Interface (R) in the center of the power relay module (L) and route to the location of the Manual Switch Panel. Plug other end of the cable into the back side of the Manual Switch Panel. Any use of the accessory ports needs to be approved in advance by the manufacturer of the accessory. Connect the power harness to the base receiver.

NOTE: Take care not to apply power to the motor/accessory connectors as they utilize the same connector. Doing so voids the unit's warranty.

WIRELESS REMOTE:



WARNING PERSONAL INJURY & PROPERTY DAMAGE

- Do not replace or charge batteries in a potentially explosive atmosphere. Contact sparking may occur while installing or removing batteries and cause an explosion.
- All batteries can cause property damage and/or bodily injury such as burns if a conductive material such as jewelry, keys or beaded chains touches exposed terminals. The material may complete an electrical circuit (short circuit) and become hot. Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse or other container with metal objects.

The remote control provided with the relay module is ready to use without any additional programming.

REMOTE PAIRING:

If a second remote is purchased as a replacement or backup, it will need to be paired with the relay module. The relay module will have to be placed in learning mode and the remote needs to communicate with the relay module so they will be paired and work together.

1. To enter learn mode: Push and hold the relay module button (Q) on the relay module until the yellow LED flashes. When the yellow LED flashes, release the button.
2. Push and hold the "On/Off" button on the remote control until the yellow LED on the relay module is constant on (not flashing.) Release the "On/Off" button. The relay module remote control has "learned" the remote control and is paired.
3. Optional: To pair a 2nd or 3rd remote control, repeat step 2. NOTE: the relay module is in "learn mode" as long as the yellow LED is flashing.
4. To Exit "Learn Mode": Push and release the relay module button (Q). The yellow LED will change to a constant on. The relay module will also exit "learn mode" after 30 seconds of no activity.

OPERATION



WARNING TRAILER CAN TIP OVER

- All jacks must be on firm, solid ground prior to operation. Sandy/soft/spongy ground may cause jacks to sink; trailer may tip over. Insure area below and around jack is clear of obstructions.
- Do not place blocks under the jack for additional ground clearance.

1. Remove the hand held remote control from its secure compartment.
2. Activate the remote control by pressing the "On/Off" button. A blue LED indicates the remote control is activated.
3. Select the JACK or AUX item to be controlled by pressing the button of that item. The button glows red when selected.
The following operations are possible when controlling jacks.
 - Extension or retraction of an individual jack.
 - Extension or retraction of all 3 jacks by enabling the "All Jacks" button
 - Extension or retraction of both rear jacks by enabling the "Both Rear" button
4. To extend a JACK (lifting the trailer), once the selected item is glowing red, press the "Extend" (▲) button.
5. To retract a JACK (lowering the trailer), once the selected item(s) is glowing red, press the "Retract" (▼) button.
6. Lights (or other lower current appliances) may be controlled with the remote. Select the desired LIGHTS by pressing the button. Once the selected item(s) is glowing red, press the "Extend" (▲) button to turn "on" the light or press the "Retract" (▼) button to turn "off" the light.



CAUTION PRODUCT DAMAGE

- Do not over-extend or over-retract jacks. The electric jack has an internal slip clutch to help prevent damage; when clicking sound is heard, release switch. Continuing to hold the switch will wear out the slip clutch or cause damage to the motor.

To Lift Trailer:

1. Extend front jack after loosed from the vehicle so trailer is separated from the vehicle and the vehicle can then be pulled away:
 - a. Power on the remote control.
 - b. Push and release the FRONT button and it should light red.
 - c. Press and hold the "Extend" (▲) button until the front of the trailer is above and separated from the hitch.
 - d. Press FRONT button to deactivate the jack selection.
2. Once the trailer is detached from the vehicle:
 - a. Press and release the ALL JACKS button,
 - b. Use the "Extend" (▲) and "Retract" (▼) buttons to position the trailer to the desired height.
 - c. Press any of the lit buttons to deactivate the jack selection.
3. Use the individual jacks buttons to adjust an adjustment individual jack:
 - a. Press the desired jack button. It will glow red when selected.
 - b. Use the "Extend" (▲) and "Retract" (▼) buttons to position the jack as desired.



CAUTION PERSONAL INJURY & PRODUCT DAMAGE

- Do not enter trailer after it is removed from the vehicle until it is lowered to its lowest position. This will minimize sway which could cause structural damage to the trailer, jacks and/or injury to persons.

To Lower Trailer:

1. Retract all jacks so trailer is at its lowest position.
 - a. Power on the remote control.
 - b. Press and release the ALL JACKS button,
 - c. Press and hold the "Retract" (▼) button until the first jack is at its lowest require position.
 - d. Press any of the lit buttons to deactivate the jack selection.
2. Use the individual jacks buttons to adjust individual jack to complete lowering:
 - a. Press and release the desired jack button. It will glow red when selected.
 - b. Use the "Extend" (▲) and "Retract" (▼) buttons to position the jack as desired.

Removing Trailer from Vehicle

Disconnect the electrical connections between trailer and vehicle(refer to your trailer operation instructions or contact the trailer manufacturer for more information). Follow the instructions from the "To Lift:" or "To Lower:" sections. Raise the trailer until the coupler clears the vehicles hitch. Slowly drive the vehicle from underneath the coupler. Lower the trailer to the lowest possible.

Hitching Trailer to Vehicle

Following the instructions "To Lift Trailer:" or "To Lower:", raise the trailer high enough to clear vehicle's hitch. Carefully back the vehicle under the trailer coupler making sure not to damage any portion of the trailer or jacks. The vehicle hitch should be centered under the trailer coupler. Attach electrical connections between the vehicle and trailer, (refer to your trailer operating instructions or contact the trailer manufacturer for further information). Lower trailer coupler onto vehicle hitch and then fully retract all jacks being sure to securely attach the coupler to the hitch.

Manual Override Operation:

To manually extend or retract jack, unplug jack from the Output Jack (I) from Relay Module (L) to disable the jack motor's dynamic brake. Place manual override handle (S) into alignment tube (T) and engage drive pin. Rotate handle counter-clockwise to raise or clockwise to lower trailer. Plug the jack back into trailer to activate the jack motor's dynamic brake.

LED Flashlight

To operate the flashlight, press and release the push button on the side of the remote. The flashlight will turn off when the button is pressed again.

Battery Charging

The remote contains a rechargeable battery with a battery indicator LED.

These are the indications that the LED provides:

1. When the remote is NOT connected to the charger:
 - a. Green – the remote is fully charged.
 - b. Flashing Red – the battery is low.
 - c. Solid Red – the battery charge is very low and the remote should be recharged.
2. When the remote is being charged:
 - a. Solid Red – the battery is charging
 - b. Solid Green – the battery is fully charged and can be disconnected from the charger.

To charge the battery use the micro USB connector on the bottom of the remote. The included USB Recharge Cable may be used to connect the remote to a standard USB port or use a standard USB charger.

TROUBLESHOOTING

If all or any of the jacks or landing legs fails to operate:

1. Check whether the 12VDC battery is fully charged. You may need to recharge it.
2. Check that the trailer jack cords are securely plugged into the exterior sockets. You may need to pull a plug out, check the connection, and re-plug it.
3. If the motor does not extend/retract the jack and the motor is making a ratcheting sound (clutch slipping), do not use the manual override. Immediately contact a Lippert Service Center and have jack replaced. Do not use the jack until replaced.
4. Assure the remote control's power switch is turned on. The blue LED on the remote control should be lit.
5. Check that you are within 20 feet of the trailer.
6. Be sure that the remote is fully charged. The battery indicator LED should be green. If the LED is a solid red or not lit when remote is turned on, charge the remote until the LED changes to a solid green.
7. Check to ensure all battery terminals are clean and have no corrosion.
8. Look to see if other radio frequency devices such as an automobile key fob, cellular phone, TV remote control, are operating within range of your remote. These devices may make the jacks pause. Lift your finger from the button on the remote and re-press the button.

If the jacks keep running, hold down the "Power-Select" on the remote until the LED turns off. This will shut the power off to the jacks. If not, unplug the jack(s) from its (their) exterior socket(s).

MAINTANENCE

The following are important steps to keeping your wireless trailer jack properly maintained.

1. To clean the remote, wipe with a soft cloth dampened with water. Don't use cleaners or solvents on the remote, they can harm the remote body and leak inside, causing permanent damage. Battery contacts may be wiped with a dry, lint-free cloth.
2. If the remote gets wet, remove the batteries immediately. Dry battery compartment with a soft cloth to minimize potential water damage. Leave cover off the battery compartment overnight or until completely dry. Do not use the remote until completely dry.
3. If storing the remote for an extended period of time, remove the battery from the remote control.
4. If power relay module gets wet, turn off circuit breaker to the unit. Allow unit to fully dry before attempting to use it.
5. If it is not possible to get jack to operate freely, replace jack.
6. For any questions, contact your dealer, the trailer manufacturer, or the Lippert Service Department

As a supplier of components to the RV industry, safety, education and customer satisfaction are our primary concerns. Should you have any questions, please do not hesitate to contact us at (574) 537-8900 or by email at customerservice@lci1.com. Self-help tips, technical documents, product videos and a training class schedule are available at lci1.com or by downloading the MyLCI app.



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Follow proper safety practices. If in doubt, consult a professional RV technician.