



GROUND CONTROL[®]
TT LEVELING WITH
ONECONTROL[™] TOUCH PANEL
OWNER'S MANUAL



Scan for Product Support

TABLE OF CONTENTS

Introduction	3
Safety	4
Prior to Operation	4
Operation - Power Tongue Jack	5
Unhitching From A Tow Vehicle	5
Reconnecting to Tow Vehicle	5
Operation - Auto Leveling Control Touch Pad	6
Basic Power Tongue Jack Operation	6
Unhitching From A Tow Vehicle	6
Diagram - Auto Leveling Control Touch Pad	6
Auto Level	7
Hitch Recognition	7
Diagram - OneControl Touch Panel	8
Operation - OneControl Touch Panel	9
Basic Jack Operation In Standard Mode	9
Basic Jack Operation In Manual Mode	9
OneControl Touch Panel In Standard and Manual Modes	9
Unhitching From Tow Vehicle	10
Auto Level	10
Auto Level Sequence	11
Hitch Recognition	11
Diagram - OneControl App	12
Operation - OneControl App	13
Accessing the OneControl App	13
Basic Jack Operation In Standard Mode	13
Basic Jack Operation In Manual Mode	14
OneControl Touch Panel App In Standard and Manual Modes	14
Unhitching From A Tow Vehicle	15
Auto Level	15
Hitch Recognition	15
Diagram - Linc Remote Control - Optional	16
Operation - Linc Remote	17
Configuring the Linc Remote	17
Resetting the Remote	18
Configuring Linc Remote to Sync to The OneControl Touch Panel	19
Basic Jack Operation	19
Unhitching From A Tow Vehicle	20
Auto Level	20
Troubleshooting	21
Red/Green LED Indicator Light - Auto Leveling Control Touch Pad	21
Error Display Screen - OneControl Touch Panel/App	22
Special Jack Error Codes	23
Zero Point Calibration	24
Setting the Zero Point	24
Manual Override	25
Preventive Maintenance	27

Introduction

With the push of a button, the Ground Control® TT Leveling System levels and stabilizes your travel trailer quickly and accurately, enhancing your overall camping experience. It can take up to an hour to get a travel trailer level with manual jacks, chocks and wedges. The Ground Control® TT Leveling System saves you time by leveling and stabilizing the travel trailer in a matter of minutes, and prevents annoying rocking and swaying at the campsite.

Features:

1. Saves time setting up camp
2. Fast, accurate automatic electric leveling
3. Auto re-hitch memory function
4. Level travel trailers function more efficiently than non-level trailers.

The controllers for this system are automatic leveling controls and interface to the Ground Control TT Leveling system to level the trailer. The system utilizes one main control board and a separate waterproof remote level sensor to measure and manage level point, and can be operated from several user interface devices, including:

- Auto Leveling Control Touch Pad - Mounted outside the trailer within view of the hitch.
- myRV® OneControl™ Touch Panel (OCTP) - Mounted on a wall inside the living space of the trailer or in a trailer compartment.
- myRV® OneControl™ Leveling App - The app is available on iTunes® for iPhone® and iPad® and also on Google Play™ for Android™ users. iTunes®, iPhone® and iPad® are registered trademarks of Apple Inc. Google Play™ and Android™ are trademarks of Google Inc.
- Linc® Remote Control - Optional.

For information on the assembly or individual components of this product, please visit:

<https://support.lci1.com/ground-control-tt-leveling-onecontrol-touch-panel> .

NOTE: Images used in this document are for reference only when assembling, installing and/or operating this product. Actual appearance of provided and/or purchased parts and assemblies may differ.

NOTE: The Ground Control ® TT Leveling is specific to travel trailer applications only.

There are five different options for the controller depending on which jacks are installed:

- A. Install SE Green Controller (P/N 433633) for a four 3K C-Jack configuration using Auto Leveling Control Touch Pad and OneControl Touch Panel.
- B. Install Red Controller (P/N 695502) for a two 2K C-Jack and two 3K C-Jack configuration using Auto Leveling Control Touch Pad and OneControl Touch Panel.
- C. Install Purple Controller (P/N 695501) for a two 2K C-Jack and two 5K Jack configuration using Auto Leveling Control Touch Pad and OneControl Touch Panel.
- D. Install HD Blue Controller (P/N 433632) for a two 3K C-Jack and two 5K Jack configuration using Auto Leveling Control Touch Pad and OneControl Touch Panel.
- E. Install Gold Controller (P/N 767693) a four 5K Jack configuration using Auto Leveling Control Touch Pad and OneControl Touch Panel.

Safety

WARNING

The “WARNING” symbol above is a sign that a procedure has a safety risk involved and may cause death or serious personal injury if not performed safely and within the parameters set forth in this manual.

WARNING

Failure to act in accordance with the following may result in death or serious personal injury. The use of the Ground Control® TT Leveling system to support the trailer for any reason other than which it is intended is prohibited by Lippert’s limited warranty. The Lippert leveling system is designed as a “leveling” system only and should not be used to provide service for any reason under the trailer such as changing tires or servicing the leveling system. Any attempts to change tires or perform other service while trailer is supported by the Ground Control TT Leveling system could result in damage to the trailer and/or cause death or serious injury.

CAUTION

The “CAUTION” symbol above is a sign that a safety risk is involved and may cause personal injury and/or product or property damage if not safely adhered to and within the parameters set forth in this manual.

CAUTION

People and pets should be clear of the trailer while the leveling system is operated. Never lift the trailer completely off the ground. Lifting the trailer so the wheels are not touching the ground will create an unstable and unsafe condition.

Prior to Operation

The leveling system should only be operated under the following conditions:

1. **Make sure the trailer is parked on solid and level ground. The locations should also be free of surface depressions and moisture.**
2. Make sure all persons, pets, and property are clear of the trailer while the leveling system is in operation.
3. Make sure battery(ies) are fully charged at a minimum of 12V DC.

Operation - Power Tongue Jack

⚠ WARNING

When parking the trailer on extremely soft surfaces, utilize load distribution pads under each jack.

NOTE: The "ON" and "OFF" switch (Fig. 2A) controls the Power Tongue Jack's light only. If left on for an extended period of time, the light will drain the trailer's battery.

NOTE: The Power Tongue Jack is designed for vertical movement of the trailer only.

Unhitching From A Tow Vehicle

1. Prior to unhitching from the tow vehicle, make sure the trailer is parked on a level surface and chock the tires of the trailer.
2. Make sure the footpad of the Power Tongue Jack is pinned securely in place with the clevis pin and hairpin cotter pin (Fig. 1B).
3. Disconnect any wires, chains, or sway control that may be equipped between the tow vehicle and the trailer. Unlatch the trailer coupler.
4. Push "EXT" (Fig. 2C) two times holding on the third time approximately five seconds, then release the switch. The Power Tongue Jack will automatically extend to the ground.
5. Push "EXT", again, until the coupler clears the hitch ball.
6. Move the tow vehicle away from the trailer.
7. Push "RET" (Fig. 2B) as needed to return the front of the trailer to level or use the Auto Level function on the Touch Pad (Fig. 3D) to level the trailer. See "Auto Level" in "Auto Leveling Control Touch Pad" section.

Reconnecting to Tow Vehicle

1. Chock the tires of the trailer.
2. Press "EXT" (Fig. 2C) if needed to allow the coupler to clear the hitch ball.
3. Push "RET" (Fig. 2B) to retract the Power Tongue Jack until the coupler properly mounts the hitch ball and the leg.
4. Latch the tow vehicle hitch and connect any wires, chains or sway control that may be equipped between the tow vehicle and trailer.
5. Press "RET" two times and hold on the third time approximately 5 seconds until the Power Tongue Jack pauses. Let go of the switch and the Power Tongue Jack will automatically retract.
6. Be sure the leg of the Power Tongue Jack (Fig. 1A) is fully retracted prior to moving the tow vehicle.

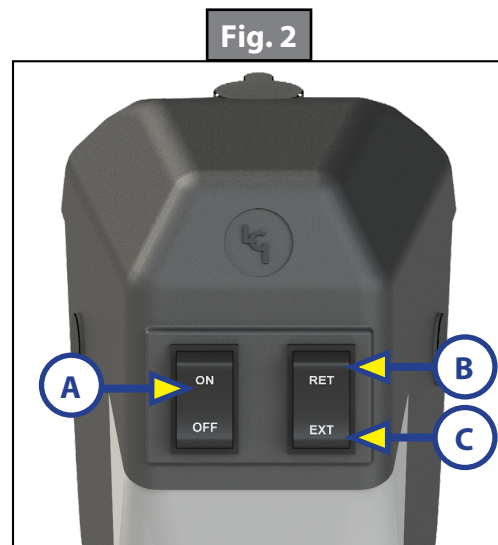
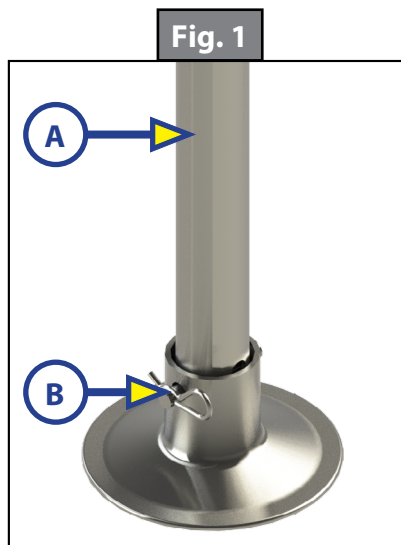
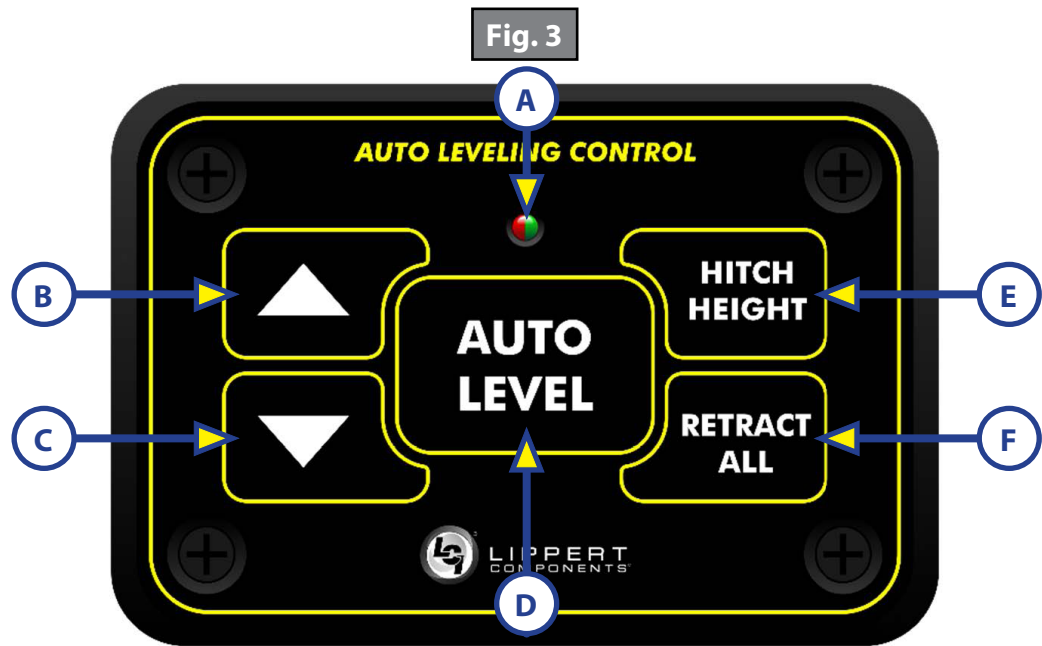


Diagram - Auto Leveling Control Touch Pad



Callout	Description	
A	Red/Green LED - Indicates the status of the system.	
B	Up Arrow - Extends Power Tongue Jack .	To turn on the touch pad, press the UP and DOWN arrow buttons at the same time.
C	Down Arrow - Retracts Power Tongue Jack.	
D	AUTO LEVEL Button - Places leveling system into auto level mode.	
E	HITCH HEIGHT Button - Initiates the Hitch Recognition feature.	
F	RETRACT ALL Button - Places leveling system into full retract mode. Power Tongue Jack does not retract.	

Operation - Auto Leveling Control Touch Pad

Basic Power Tongue Jack Operation

1. To turn on the touch pad, press both "UP" and "DOWN" arrows (Fig. 3B and 3C) at the same time. The green indicator LED (Fig. 3A) will turn "On".
2. Press the "UP" arrow (Fig. 3B) to extend the Power Tongue Jack and lift the front of trailer to take the weight of the trailer off of the hitch.
3. Press the "DOWN" arrow (Fig. 3C) to retract the Power Tongue Jack.

Unhitching From A Tow Vehicle

1. Prior to unhitching from the tow vehicle, make sure the trailer is parked on a level surface and chock the tires of the trailer.
2. Make sure the footpad of the Power Tongue Jack is pinned securely in place with the clevis pin and hairpin cotter pin.
3. To turn on the touch panel, press both "UP" and "DOWN" arrows (Fig. 3B and 3C) at the same time. The green indicator LED (Fig. 3A) will turn "On".

NOTE: The touch pad will remain "On" as long as the user is pressing buttons. The touch pad will time out after five minutes without use.

4. Press the "UP" arrow (Fig. 3B) to extend the Power Tongue Jack and lift the front of trailer to take the weight of the trailer off of the hitch.
5. Uncouple the trailer and disconnect the electrical wire harness from the tow vehicle.
6. Pull tow vehicle away from the trailer and park at a safe distance.

Auto Level

1. Prior to auto leveling, make sure the trailer is unhitched from the tow vehicle and the tow vehicle is parked a safe distance away from the trailer.
2. Press both "UP" and "DOWN" arrows (Fig. 3B and 3C) at the same time if the green indicator LED is not "On".
3. Press "AUTO LEVEL" (Fig. 3D).

NOTE: Once the automatic leveling cycle has been started, it is important that there is no movement in the trailer until the trailer has completed the leveling process. Failure to remain still during the leveling cycle could have an effect on the performance of the leveling system.

NOTE: Pressing any button during an Auto Level sequence will abort the auto leveling cycle.

NOTE: Auto Leveling sequence may vary slightly based on the height of the trailer coupler prior to leveling.

4. When the Auto Level sequence begins:
 - A. The system checks that the rear jacks are retracted.
 - B. The Power Tongue Jack may adjust depending on the orientation of the trailer.
 - C. Front jacks will extend until movement of the trailer is sensed.
 - D. The Power Tongue Jack will then retract.
 - E. The front jacks will extend/retract near level.
 - F. Rear jacks will extend and ground.
 - G. Trailer will level front-to-rear and then side-to-side.
 - H. The Auto Level sequence will ground all jacks to ensure all foot pads are on the ground.
 - I. The Auto Leveling sequence is complete when the indicator light turns solid green.

NOTE: If the "AUTO LEVEL" sequence does not perform as described, locate the OneControl Touch Panel, or use the OneControl App, to place the system in Manual Mode. Test that the jacks operate correctly by pushing their corresponding buttons on the OneControl Touch Panel or OneControl App; e.g., "Front" button operates only the front jacks, etc. See "Operation - OneControl Touch Panel" or "Operation - Linc Remote" section.

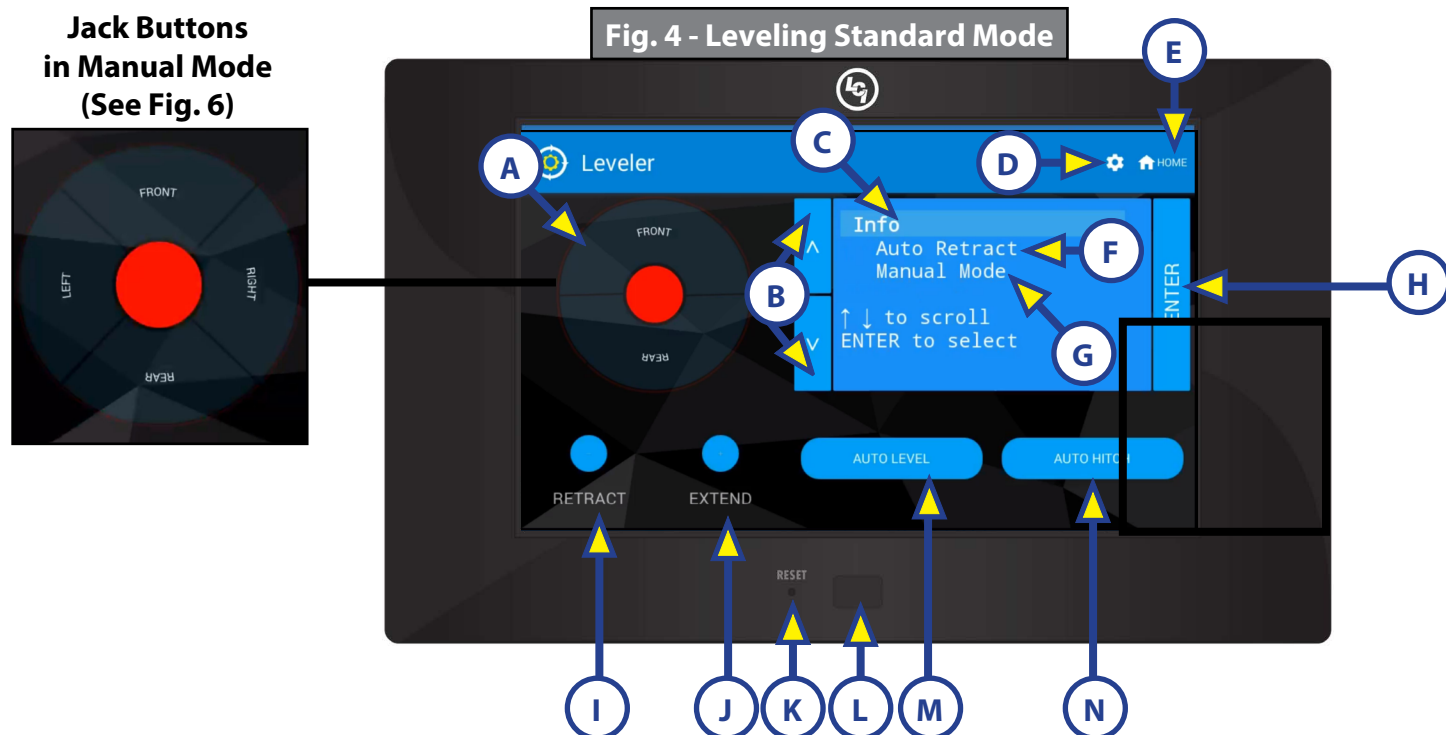
Hitch Recognition

1. To turn on the Auto Leveling Control Touch Pad, press both "UP" and "DOWN" arrows (Fig. 3B and 3C) at the same time. The green indicator LED (Fig. 3A) will turn "On".
2. Press "HITCH HEIGHT" (Fig. 3E).
 - A. Rear jacks will retract.
 - B. The Power Tongue Jack will extend to the ground.
 - C. The front leveling jacks will retract.
 - D. The tongue jack will then adjust the height of the front of the trailer coupler to the point at which the "AUTO LEVEL" button was most recently pressed.
3. The front of the trailer will raise to the height where the auto level sequence was started.

NOTE: If the front of the trailer was below level when the Auto Level process was initiated, the hitch recognition feature will retract the rear jacks, but will not retract the Power Tongue Jack to lower the trailer to the initial hitch height. This feature helps prevent injury and/or damage to anything underneath the trailer.

4. Back the tow vehicle into position to align the tow vehicle hitch and trailer coupler with each other.
5. Press and hold the "DOWN" (Fig. 3C) arrow to retract the tongue jack until the coupler sets into position on top of the tow vehicle hitch.
6. Latch the tow vehicle hitch and reconnect any wires, chains or sway controls that may be equipped between the tow vehicle and trailer.
7. Press and hold the "DOWN" (Fig. 3C) arrow until the Power Tongue Jack is fully retracted.
8. Press "RETRACT ALL" (Fig. 3F) button. System will immediately retract all jacks.

Diagram - OneControl Touch Panel



Callout	Description
A	Jack Buttons - Select Front, Rear, Right and Left jacks to be operated depending on mode. Jacks available to be operated will be highlighted in blue. In Standard Mode (Fig. 4), only the Power Tongue Jack can be operated and rear jacks can only be retracted. In Manual Mode (Fig. 6), only front and rear jacks are available to be operated (no Power Tongue Jack operation available).
B	UP and DOWN Arrows - Scrolls through options on screen.
C	Info - Displays system information, e.g. angle, jack stroke or software version.
D	Options Icon - Press to program zero point/wireless configurations.
E	HOME Icon - Returns screen to home page.
F	Auto Retract - Enters Auto Retract mode to retract all jacks. Power Tongue Jack does not retract.
G	Manual Mode - Enters Manual Mode to manually operate jacks.
H	Enter - Push to select various modes.
I	RETRACT - Retracts jacks in several modes. Jacks available will be highlighted in blue.
J	EXTEND - Extends jacks in several modes. Jacks available will be highlighted in blue.
K	RESET - Resets to factory default.
L	Power Button - Turns touch panel on and off.
M	AUTO LEVEL- Starts the Auto Level sequence.
N	AUTO HITCH - Returns trailer to previous hitch height for reconnecting to tow vehicle.

Operation - OneControl Touch Panel

Basic Jack Operation In Standard Mode

To reach Standard Mode (Fig. 4) for leveling:

1. Power on the OneControl Touch Panel (Fig. 4L).
2. Press the "Leveling" icon (Fig. 5A).

NOTE: On previous versions of the One Control Touch Panel, the screen will open to "myRV." Press MyRV Control Panel. The screen will show multiple function icons: choose "Leveler."

3. The screen will show the system menu (Fig. 4) for Standard Mode. The Power Tongue Jack can be extended/retracted in Standard Mode. Front and rear jacks cannot be operated in standard mode.

Basic Jack Operation In Manual Mode

To reach Manual Mode (Fig. 6) for leveling:

1. While in Standard Mode (Fig. 4), use the arrows (Fig. 4B) to scroll to Manual Mode (Fig. 4G). Press "Enter" (Fig. 4H).
2. Front and rear jacks can be operated in Manual Mode. The Power Tongue Jack cannot be operated in Manual Mode.

Fig. 5

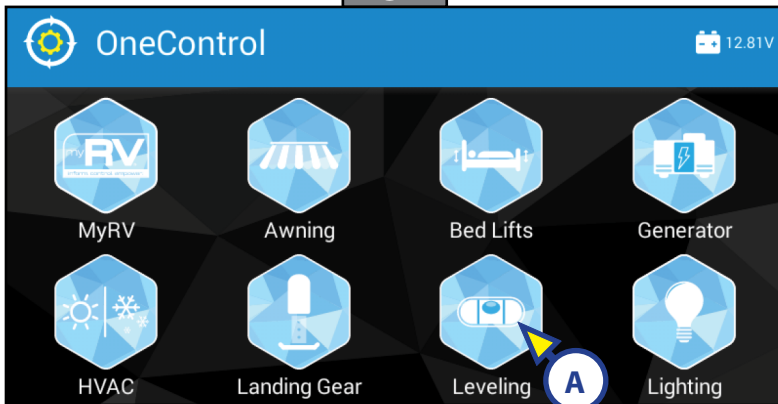
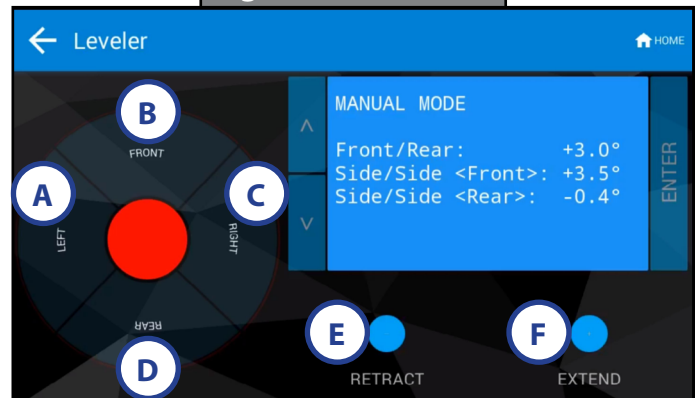


Fig. 6 Manual Mode



OneControl Touch Panel In Standard and Manual Modes

Standard Mode Features

- "EXTEND" (Fig. 4J) or "RETRACT" (Fig. 4I) and "FRONT" (Fig. 4A) extends or retracts the Power Tongue Jack.
- "AUTO LEVEL" (Fig. 4M) button starts the auto leveling sequence.
- "AUTO HITCH" (Fig. 4N) button starts the hitch recognition sequence when reconnecting to the tow vehicle.
- Use the "UP" or "DOWN" arrow (Fig. 4B) buttons to cycle through the menu screen options:
 - **Info:** Scroll to "Info" (Fig. 4C) and press "Enter" (Fig. 4H) button to display system information, e.g., angle, jack stroke or software version.
 - **Auto Retract:** Scroll to "Auto Retract" (Fig. 4F) and press "Enter" button to start the "Auto Retract" sequence, which will retract all jacks. The Power Tongue Jack does not retract.

Manual Mode: Scroll to "Manual Mode" (Fig. 4G) and press "Enter" button to start manual leveling process.

Manual Mode Features

Upon entering Manual Mode, a tutorial on operating the jacks will appear on the screen. Press "OK" to clear the tutorial. To delete the tutorial, click the "Don't show this again" box in the bottom right of the screen.

NOTE: The jacks operate in pairs. If at any time in manual mode the jacks operate individually, the Twist Protection Prevention System has been activated to prevent frame twist. The OneControl Touch Panel or OneControl App will display "Relieving frame twist." The jacks will resume operating in pairs when the potential frame twist has been relieved.

Press "EXTEND" (Fig. 6F) or "RETRACT" (Fig. 6E) and "Front" (Fig. 6B) to operate front jacks.

Press "Extend" or "Retract" and "Rear" (Fig. 6D) operate rear jacks.

Press "Extend" or "Retract" and "Right" (Fig. 6C) operate right jacks.

Press "Extend" or "Retract" and "Left" (Fig. 6A) operate left jacks.

NOTE: To operate jacks individually, press "EXTEND" or "RETRACT" then press the "Left" (Fig. 6A) or "Right" (Fig. 6C) button while simultaneously pressing the "Front" (Fig. 6B) or "Rear" button (Fig. 6D), depending on which jack needs to be operated.

NOTE: If the jacks will not operate individually as intended, but they operate properly when Auto Level is performed, the Twist Prevention Protection system has locked out the operation to prevent damage to the frame of the trailer.

Unhitching From Tow Vehicle

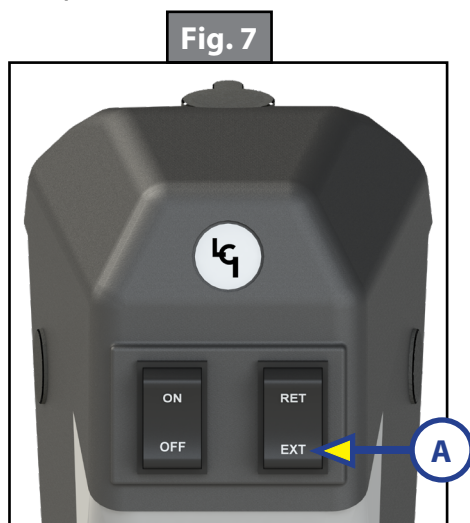
1. Before unhitching the trailer, make sure trailer is parked on a level surface.
2. Make sure the ground surface under the Power Tongue Jack is firm and level.
3. Make sure the footpad of the Power Tongue Jack is pinned securely in place with the clevis pin and hairpin cotter pin.
4. Chock all tires of the trailer.
5. Disconnect any wires, chains, or sway controls that may be equipped between the tow vehicle and the trailer.
6. Unlatch the trailer coupler.
7. Press and hold the "EXT" button (Fig. 7A) on the Power Tongue Jack or press the "Front" button (Fig. 4A) on the OneControl Touch Panel in standard mode to extend the Power Tongue Jack until the footpad touches the ground and the coupler clears the hitch ball.
8. Once the coupler is clear of the hitch ball, move the tow vehicle a safe distance away from the trailer.

Auto Level

NOTE: Once the automatic leveling cycle has been started, it is important that there is no movement in the trailer until the leveling process is complete. Failure to remain still during the leveling cycle could have an effect on the performance of the leveling system.

1. Follow steps 1-6 in "Unhitching From Tow Vehicle" section.
2. Use Power Tongue Jack to lift coupler off of hitch ball.
3. Move the tow vehicle a safe distance away from the trailer.
4. Press "AUTO LEVEL" button (Fig. 8A).

NOTE: Pressing any button on the touch panel will "ABORT" the auto leveling cycle during an Auto Level sequence.



Auto Level Sequence

NOTE: Sequence may vary slightly based on the height of the trailer coupler prior to leveling.

5. When the Auto Level Sequence begins, it will make sure that the rear jacks are retracted first.
6. The Power Tongue Jack will ground.
7. Front jacks will lower close to level.
8. Rear jacks will deploy and ground.
9. Trailer will level front-to-rear and then side-to-side.
10. The Auto Level Sequence will ground all leveling jacks to ensure all foot pads are on the ground, then the display will show complete.

NOTE: Step 5 may repeat several times, if the controller deems necessary.

If the "AUTO LEVEL" sequence does not perform as intended, place the system in Manual Mode. Test that the jacks operate correctly by pushing their corresponding buttons on the touch panel; e.g., "Front" button only operates the front jacks.

Hitch Recognition

1. Press the "On/Off" button (Fig. 9A) to turn the touch panel "On".
2. Press "AUTO HITCH" (Fig. 9C) button to retract rear jacks.

NOTE: The rear leveling jacks will retract, followed by the tongue jack extending to the ground, then followed by the front leveling jacks retracting. The tongue jack will then adjust the height of the front of the trailer coupler to the point at which the "AUTO LEVEL" button (Fig. 9B) was most recently pressed.

3. Press the "On/Off" button (Fig. 9A) to turn the touch panel "Off".
4. Back the tow vehicle into position to align the tow vehicle's hitch with trailer's coupler.
5. Press and hold "RET" button (Fig. 10A) on the tongue jack to retract the Power Tongue Jack until the coupler sets into position on top of the tow vehicle hitch.
6. Latch the tow vehicle hitch and reconnect any wires, chains or sway control that may be equipped between the tow vehicle and trailer.
7. Press the "RET" button (Fig. 10A) twice, then press and hold the "RET" button for 3-5 seconds to engage the tongue jack's Auto Retract feature.

NOTE: To utilize the Power Tongue Jack for the hitching process, see "Operation - Power Tongue Jack" section.

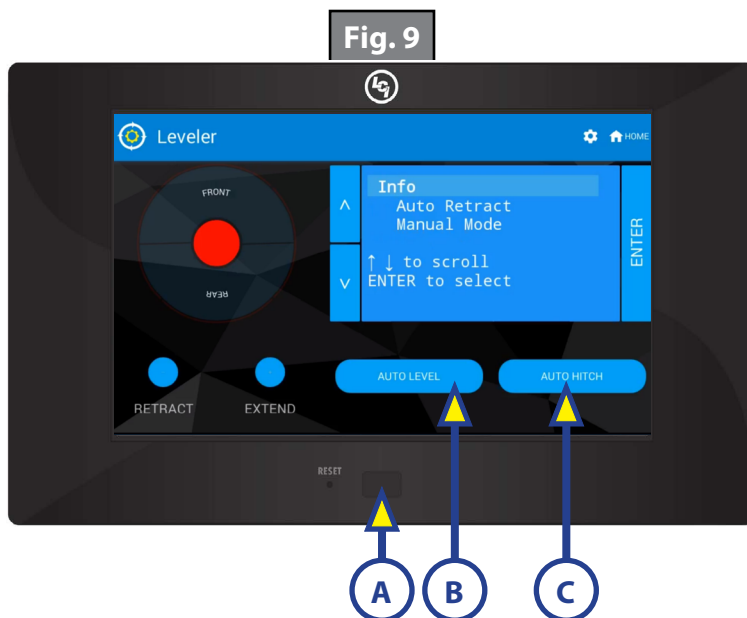
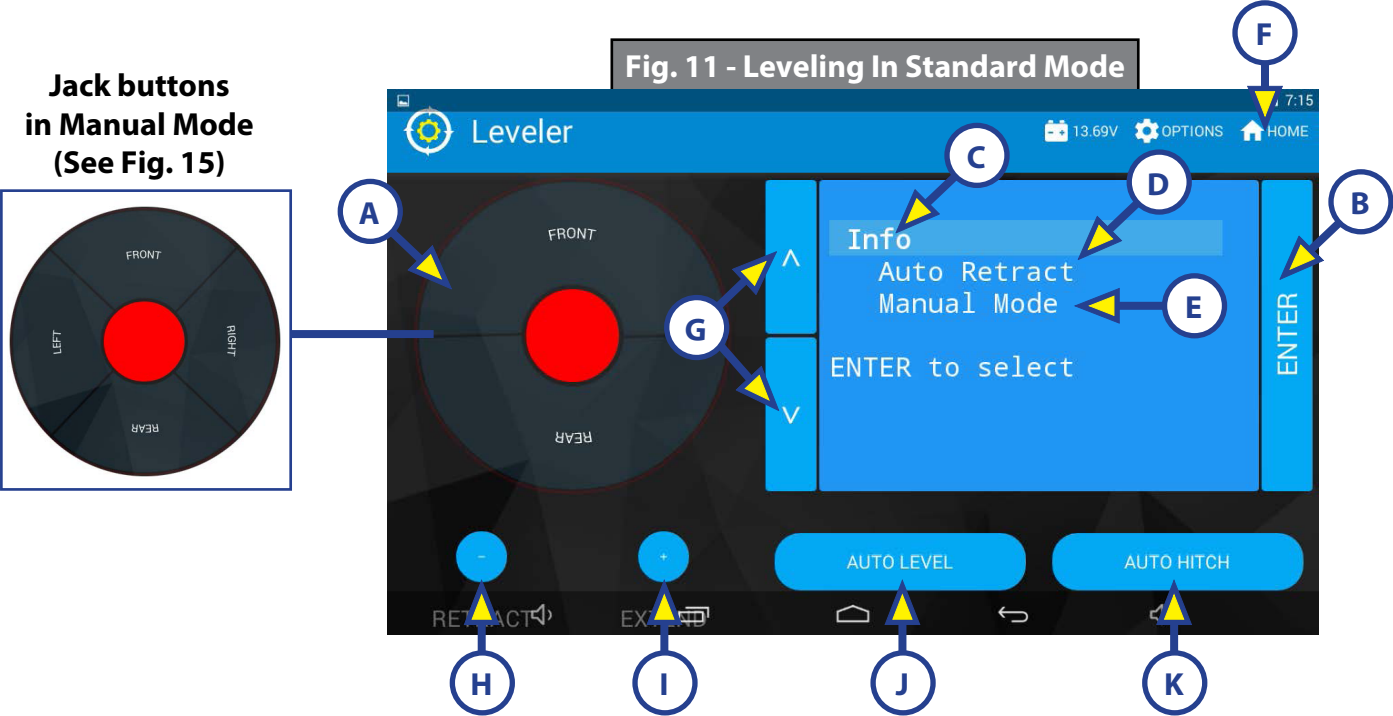


Diagram - OneControl App

NOTE: The OneControl Leveling App is available on iTunes® for iPhone® and iPad® and also on Google Play™ for Android™ users.



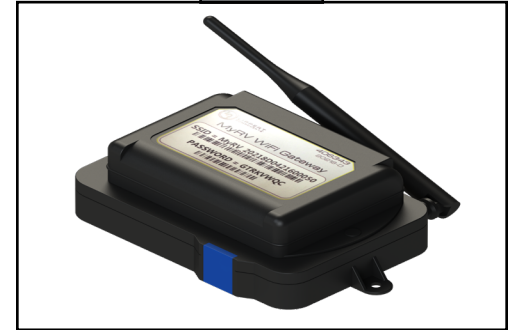
Callout	Description
A	Jack Buttons - Select FRONT, REAR, RIGHT and LEFT jacks to be operated depending on mode. Jacks available to be operated will be highlighted in blue. Only the Power Tongue Jack can be operated in Standard Mode (Fig. 11). In Manual Mode (Fig. 15), all jacks are available to be operated (no Power Tongue Jack operation available.)
B	ENTER - Push to activate various modes.
C	Info - Displays system information, e.g., angle, jack stroke, software version.
D	Auto Retract - Enters Auto Retract mode to retract all jacks. Power Tongue Jack does not retract.
E	Manual Mode - Enters Manual Mode to manually operate jacks.
F	HOME Icon - Returns screen to home page.
G	Up and Down Arrows - Scroll through options on screen.
H	RETRACT - Retracts jacks in several modes. Jacks available will be highlighted in blue.
I	EXTEND- Extends jacks in several modes. Jacks available will be highlighted in blue.
J	AUTO LEVEL - Starts the Auto Level sequence.
K	AUTO HITCH - Returns trailer to previous hitch height for reconnecting to tow vehicle.

Operation - OneControl App

Accessing the OneControl App

1. Make sure there is power to the trailer's wireless network.
2. Navigate to the device's (smart phone, tablet, etc.) wifi settings. Turn wireless feature on and connect to the myRV wireless network.
 - A. If this is the first time connecting to the myRV wireless network, a password will be required.
 - B. The password is located on the trailer's wifi hub (Fig. 12).
3. Open the OneControl application on the compatible device.
 - A. If the device states "Unresolved Network Connection," retry connecting to the myRV wireless network.
 - B. Wait for the connection to resolve and display "Connected" under the myRV wireless connection.
4. The application will request the user to "Agree" to an End User License Agreement (EULA).
 - A. Create a 4-digit Personal Identification Number (PIN).
 - B. Enter the PIN when prompted by the "Re-enter PIN to confirm." command.
5. On "Initial Setup", choose "myRV" (Fig.13A).
6. The OneControl app will now display all functions (Fig. 14).

Fig. 12



Basic Jack Operation In Standard Mode

To reach Standard Mode (Fig. 11) for leveling:

1. Power on the OneControl Touch Panel App. See "Accessing the OneControl App," steps 3-5.
2. Press the "Leveler" icon (Fig. 14A).
3. The screen will show the system menu (Fig. 11) for Standard Mode. The Power Tongue Jack can be extended/retracted in Standard Mode. Front and rear jacks cannot be operated in Standard Mode.

Fig. 13

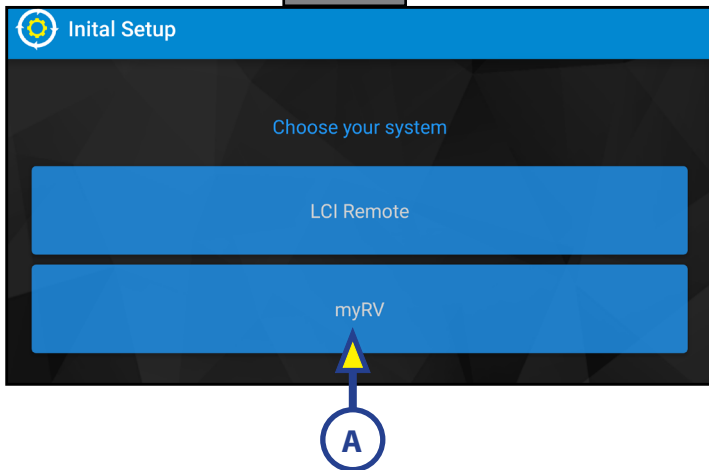
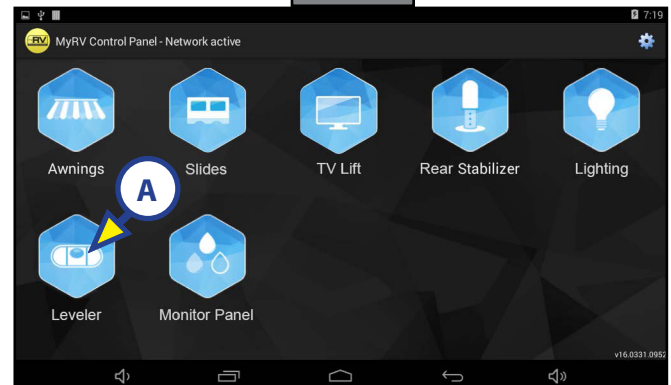


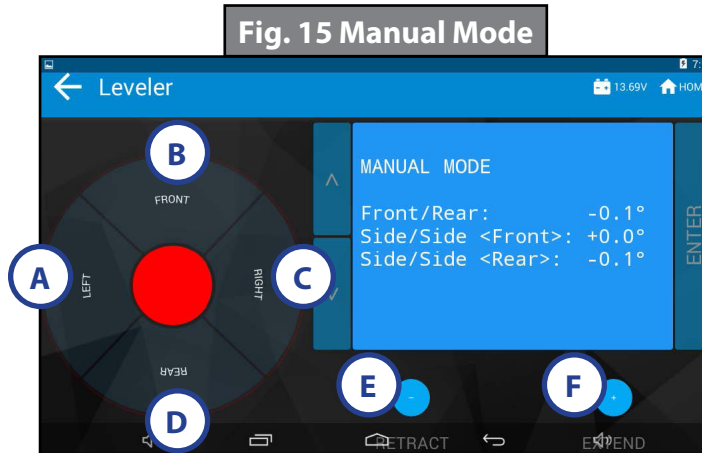
Fig. 14



Basic Jack Operation In Manual Mode

To reach Manual Mode (Fig. 15) for leveling:

1. While in Standard Mode (Fig. 11), use the arrows (Fig. 11G) to scroll to "Manual Mode" (Fig. 11E). Press "ENTER" (Fig. 11B).
2. Front and rear jacks can be operated in Manual Mode. The Power Tongue Jack cannot be operated in Manual Mode.



OneControl Touch Panel App In Standard and Manual Modes

Standard Mode Features

- "EXTEND" (Fig. 11I) or "RETRACT" (Fig. 11H) and "FRONT" (Fig. 11A) extends or retracts the Power Tongue Jack.
- "AUTO LEVEL" (Fig. 11J) button starts the auto leveling sequence.
- "AUTO HITCH" (Fig. 11K) button starts the hitch recognition sequence when reconnecting to the tow vehicle.
- Use the "UP" or "DOWN" arrow (Fig. 11G) buttons to cycle through the menu screen options:
 - **Info:** Scroll to "Info" (Fig. 11C) and press "ENTER" (Fig. 11B) button to display system information, e.g., angle, jack stroke or software version.
 - **Auto Retract:** Scroll to "Auto Retract" (Fig. 11D) and press "Enter" button to start the "Auto Retract" sequence, which will retract all jacks. The Power Tongue Jack does not retract.
 - **Manual Mode:** Scroll to "Manual Mode" (Fig. 11E) and press "Enter" button to start manual leveling process.

Manual Mode Features

Upon entering Manual Mode, a tutorial on operating the jacks will appear on the screen. Press "OK" to clear the tutorial. To delete the tutorial, click the "Don't show this again" box in the bottom right of the screen.

NOTE: The jacks operate in pairs. If at any time in manual mode the jacks operate individually, the Twist Protection Prevention System has been activated to prevent frame twist. The OneControl Touch Panel or OneControl App will display "Relieving frame twist." The jacks will resume operating in pairs when the potential frame twist has been relieved.

Press "EXTEND" (Fig. 15F) or "RETRACT" (Fig. 15E) and "FRONT" (Fig. 15B) to operate front jacks.

Press "Extend" or "Retract" and "REAR" (Fig. 15D) operate rear jacks.

Press "Extend" or "Retract" and "RIGHT" (Fig. 15C) operate right jacks.

Press "Extend" or "Retract" and "LEFT" (Fig. 15A) operate left jacks.

NOTE: To operate jacks individually, press "EXTEND" or "RETRACT" then press the "LEFT" (Fig. 15A) or "RIGHT" (Fig. 15C) button while simultaneously pressing the "Front" (Fig. 15B) or "Rear" button (Fig. 15D), depending on which jack needs to be operated.

NOTE: If the jacks will not operate individually as intended, but they operate properly when Auto Level is performed, the Twist Prevention Protection system has locked out the operation to prevent damage to the frame of the trailer.

Unhitching From A Tow Vehicle

1. Prior to unhitching from the tow vehicle, make sure trailer is parked on a level surface and chock the tires of the trailer.
2. Make sure the foot pad of the Power Tongue Jack is pinned securely in place with the clevis pin and hairpin cotter pin.
3. Disconnect any wires, chains, or sway controls that may be equipped between the tow vehicle and the trailer. Unlatch the trailer coupler.
4. Press the "FRONT" button (Fig 11A) on the OneControl Touch Panel App in Standard Mode to extend the Power Tongue Jack until the foot touches the ground and the coupler clears the hitch ball.
5. Pull tow vehicle away from the trailer and park at a safe distance.

NOTE: To utilize the Power Tongue Jack for the unhitching process, see "Operation - Power Tongue Jack."

Auto Level

1. Prior to auto leveling, make sure the trailer is unhitched from the tow vehicle and the tow vehicle is parked a safe distance away from the trailer.
2. Power on the OneControl Touch Panel App. See "Accessing the OneControl App," steps 3-5.
3. Press the "Leveler" icon (Fig. 14A).
4. Press "AUTO LEVEL" (Fig. 11J).

NOTE: Once the automatic leveling cycle has been started, it is important that there is no movement in the trailer until the leveling process is complete. Failure to remain still during the leveling cycle could have an effect on the performance of the leveling system.

NOTE: Sequence may vary slightly based on the height of the trailer coupler prior to leveling.

5. When the Auto Level Sequence begins:
 - A. The system checks that the rear jacks are retracted.
 - B. The Power Tongue Jack may adjust depending on the orientation of the trailer.
 - C. Front jacks will extend until movement of the trailer is sensed.
 - D. The Power Tongue Jack will then retract.
 - E. The front jacks will extend/retract near level.
 - F. Rear jacks will extend and ground.
 - G. Trailer will level front-to-rear and then side-to-side.
 - H. The Auto Level sequence will ground all jacks to ensure all foot pads are on the ground.
 - I. The Auto Level sequence is complete when the OneControl Touch Panel indicates, "Auto Level Success".

If the AUTO LEVEL sequence does not perform as intended, locate the OneControl Touch Panel or use the OneControl App to place the system in Manual Mode. Test that the jacks operate correctly by pushing their corresponding buttons on the OneControl Touch Panel or App; e.g., "FRONT" button operates only the front jacks, etc. See "Operation - OneControl Touch Panel" or "Operation - OneControl App".

Hitch Recognition

1. Power on the OneControl Touch Panel App. See "Accessing the OneControl App", steps 3-5.
2. Press the "Leveler" icon (Fig. 14A).
3. Press "AUTO HITCH" (Fig. 11K).

NOTE: Rear jacks will retract. The Power Tongue Jack will extend to the ground. Front leveling jacks will retract. The tongue jack will then adjust the height of the front of the trailer coupler to the point at which the "AUTO LEVEL" button was most recently pressed.

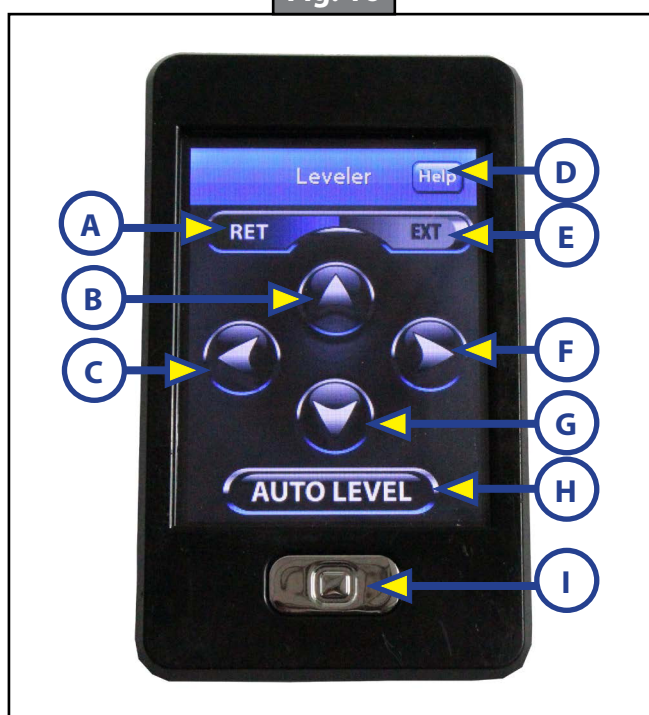
4. Back the tow vehicle into position to align the tow vehicle hitch and trailer coupler with each other.
5. Press "RETRACT" button (Fig. 15E) then press the "FRONT" button (Fig. 15B) to retract the tongue jack until the coupler sets into position on top of the tow vehicle hitch.
6. Latch the tow vehicle hitch and connect any wires, chains or sway controls that may be equipped between the tow vehicle and trailer.
7. Press the "RETRACT" button (Fig. 15E), then press and hold the "FRONT" button (Fig. 15B) until the Power Tongue Jack fully retracts.

NOTE: To utilize the Power Tongue Jack for the hitching process, see "Operation - Power Tongue Jack."

Diagram - Linc Remote Control - Optional

NOTE: When the OneControl Touch Panel is placed in Manual Mode, the Linc Remote will operate the jacks in a similar fashion as the OneControl, with the exception of operating individual jacks. Jacks will operate in pairs only. See "Operation - OneControl Touch Panel".

Fig. 16



Callout	Description
A	RET - Retracts front and rear jacks.
B	Front Arrow - Operates front jacks.
C	Left Arrow - Operates left rear jacks.
D	Help - Provides contact information for Lippertyt.
E	EXT - Extends front and rear jacks.
F	Right Arrow - Operates right rear jacks.
G	Rear Arrow - Operates rear jacks.
H	AUTO LEVEL - Initiates Auto Level sequence.
I	Power Button - Turns remote control "On" and "Off".

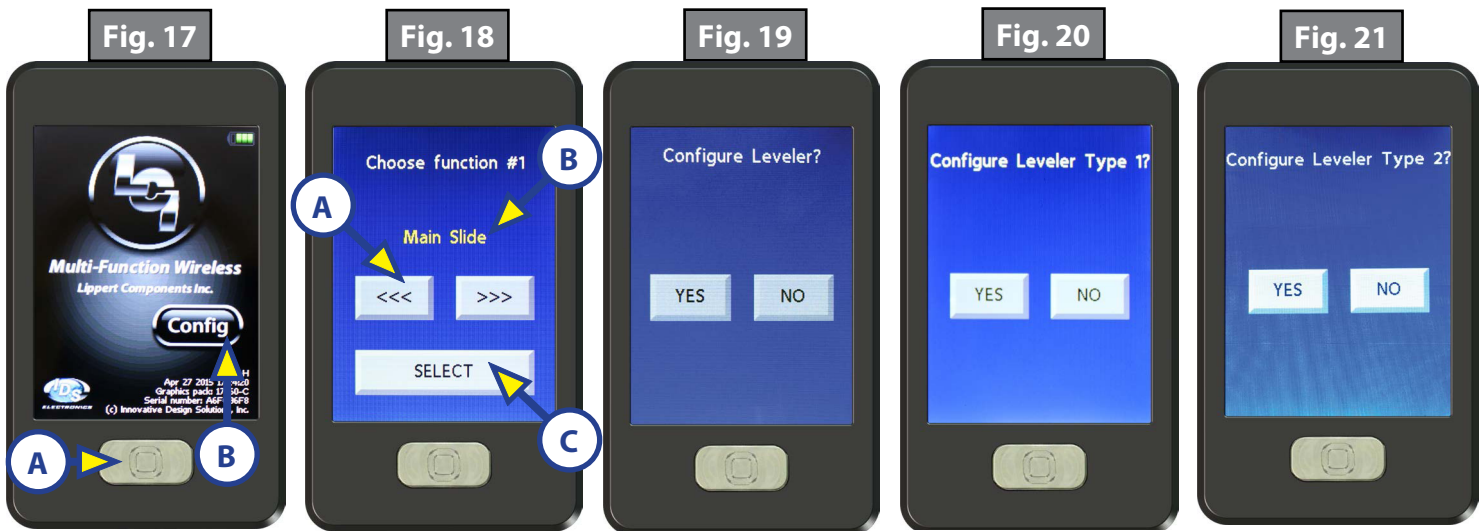
Operation - Linc Remote

Configuring the Linc Remote

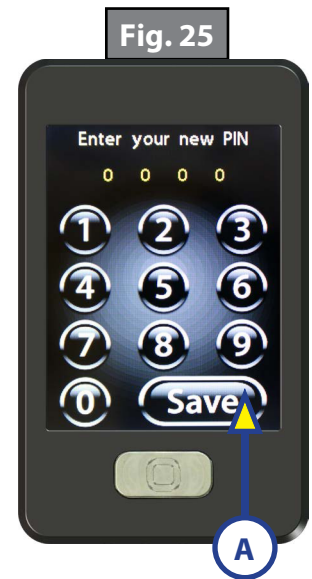
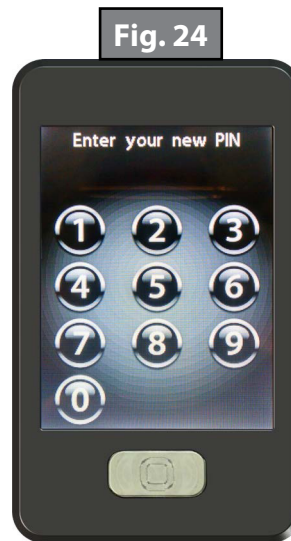
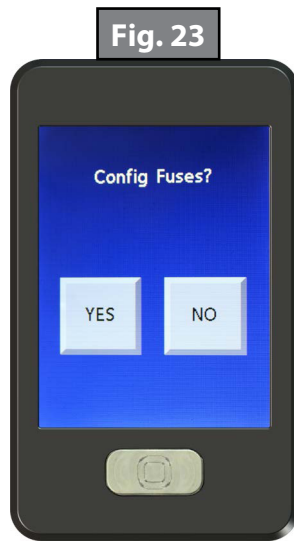
NOTE: If the trailer does not have a Lippert Multifunction wireless system installed, each of the listed functions (Fig. 22) steps 1-7 will read as "NONE."

1. Turn the Linc Remote "On" by pressing and releasing the large silver button at the bottom of the remote (Fig. 17A).
 - A. If the remote has never been configured, it will display the "Config" button (Fig. 17B) immediately after it is turned on.
 - B. To reconfigure the remote after the initial programming, push the silver button five times (Fig. 17A).
2. Press the "Config" button (Fig. 17B) on the touch screen to begin configuring the remote.
3. Using the arrow buttons (Fig. 18A) at the bottom of the screen, navigate to the specific items the remote will control.
4. When the name of the item appears in the middle of the screen (Fig. 18B), press the large "SELECT" button (Fig. 18C).
5. Assign an item or "None" to each of the function spaces available.
6. Press the SELECT button at each screen.

NOTE: Without a LCI Multifunction Wireless system installed on the trailer, no other functions will be able to be programmed on the remote.



7. If remote was purchased before July 2013, refer to Step A, if purchased after July 2013, refer to Step B.
 - A. After all the functions have been assigned a "title," the next screen will ask: "Configure Leveler?" (Fig. 19). If trailer is so equipped, and you want to have leveling available on your transmitter, select "YES." If not, select "NO" (Fig. 19).
 - B. After all the functions have been assigned a "title," the next screen will ask: "Configure Leveler Type 1?" (Fig. 20) and then "Configure Leveler Type 2?" (Fig. 21) will appear. If syncing the transmitter to a LCI Level Up, Ground Control® or Motorized Dual Sensor system, select "YES" for Type 1 and "NO" for Type 2. If you will not be syncing the transmitter to either of these leveling systems select "NO" for both Type 1 and Type 2.
8. A confirmation screen will appear showing all of the configured functions (Fig. 22). If the trailer does not have a LCI Multifunction Wireless system installed, the screen will show "NONE" for the listed functions, then "Leveler Type 1: Yes" and :Leveler Type 2: No." Press "OK" button to save the configuration or the "Cancel" button to restart the process.
9. Once a configuration is saved, a "Config Fuses?" screen (Fig. 23) will appear. Press "NO" button, since any fuse configuring will need to be done by the manufacturer of the trailer.



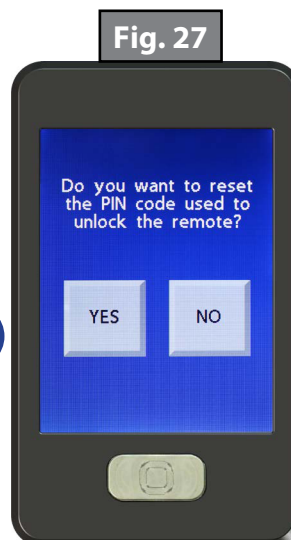
10. Enter a 4-digit PIN security code for accessing the remote (Fig. 24).
11. Once a PIN is entered, the "Save" button (Fig. 25A) will appear at the bottom right of the screen.
12. Press "Save" to confirm the PIN.
13. Re-enter the PIN, then press "Save" to confirm it.

NOTE: This PIN will be required to access the remote and any functions configured into it. Write the PIN down for later reference.

Resetting the Remote

Once the remote has been configured it can be reconfigured in the event of a function change or when a new security PIN is required.

1. Turn the remote "On" by pressing and releasing the large silver button at the bottom of the remote (Fig. 26C).
2. Press the large silver button five times (Fig. 26C).
3. Two options come up for reconfiguration:
 - A. Option 1 - "Set PIN" (Fig. 26A) will allow the user to reset the PIN and enter a new one.
 - I. Once the "Set PIN" option is selected, the user will be asked for verification that they want to reset the PIN (Fig. 27).
 - II. Select "YES" and the PIN will be reset, follow steps 10-12 of the "Configuring the Linc Remote" section.
 - III. Select "NO" to keep the current PIN.



B. Option 2 - The "Config" (Fig. 26B) button allows the user to adjust the configuration.

I. Select "Config".

II. Do steps 1-9 of the "Configuring the Linc Remote" section.

Configuring Linc Remote to Sync to The OneControl Touch Panel

1. Turn on the Linc Remote control (Fig. 16I) and enter a PIN.
2. Choose "Leveler" from the menu screen (Fig. 16).
3. Turn on the OneControl Touch Panel (Fig. 4L).
4. On the OneControl Touch Panel, press the gear icon with "OPTIONS" appears (Fig. 29A).
5. Press the gear icon with "OPTIONS" (Fig. 29A).
6. Use the "Up" and "Down" arrows (Fig. 29B) to scroll to "Wireless Config" (Fig. 30).
7. Press "Enter" (Fig. 30A). The screen will display "Wireless Configuration, Press any Linc button to Sync" (Fig. 31).
8. Press any button in "Leveler" mode on the Linc Remote control (Fig. 16).
9. Pressing "Abort" on the OneControl Touch Panel (Fig. 31A) will cancel the configuration sequence.

Fig. 28

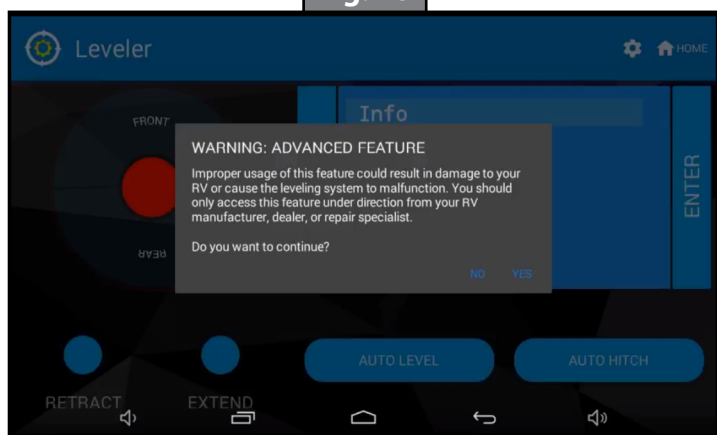


Fig. 29

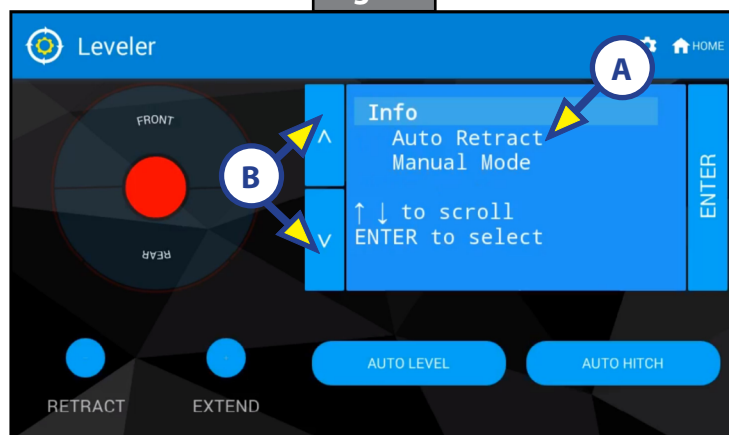


Fig. 30

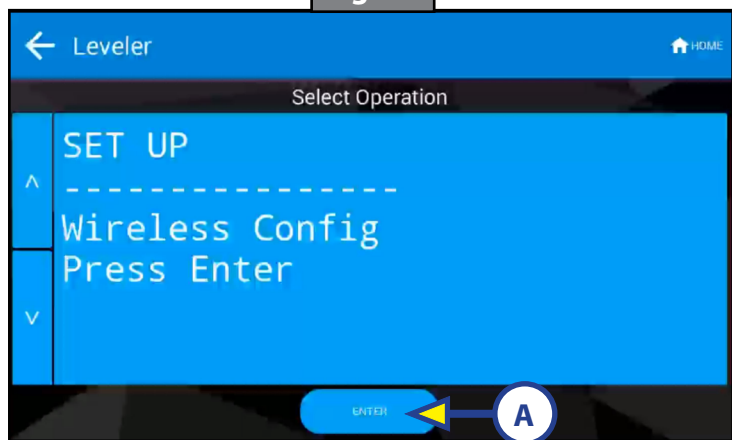
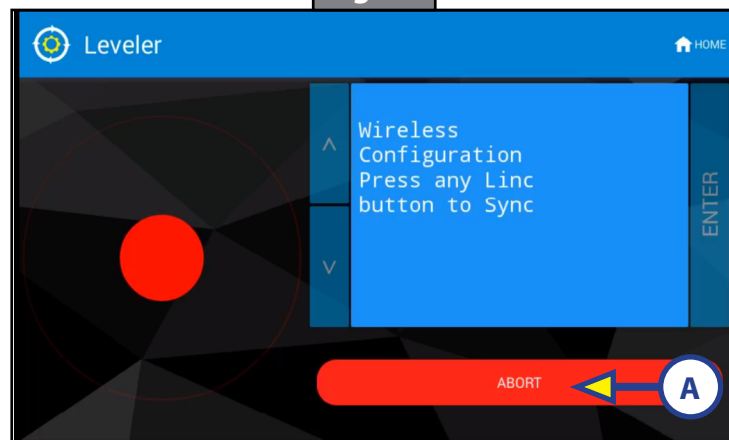


Fig. 31



Basic Jack Operation

1. Press "RET" (Fig. 16A) or "EXT" (Fig. 16E) and Front Arrow (Fig. 16B) to retract or extend the front jacks (left front, right front).
2. Press "RET" or "EXT" and Rear Arrow (Fig. 16G) to retract or extend the rear jacks (left rear, right rear).
3. Press "RET" or "EXT" and Right Arrow (Fig. 16F) to retract or extend the right jacks (right front, right rear).
4. Press "RET" or "EXT" and Left Arrow (Fig. 16C) to retract or extend the left jacks (left front, left rear).
5. Press "AUTO LEVEL" (Fig. 16H) to start the auto leveling sequence.

Unhitching From A Tow Vehicle

1. Prior to unhitching the trailer from the tow vehicle, make sure the trailer is parked on a level surface.
2. Chock the tires of the trailer.
3. Make sure the footpad of the Power Tongue Jack is pinned securely in place with the clevis pin and hairpin cotter pin.
4. Disconnect any wires, chains, or sway controls that may be equipped between the tow vehicle and the trailer.
5. Unlatch the trailer coupler.
6. Turn "On" the Linc Remote (Fig. 16I), then enter a PIN code to access the system.
7. Choose the "Leveler" option.
8. Press "EXT" (Fig. 16E) and Front Arrow (Fig. 16B) to extend front jacks to lift the front of the trailer to take the weight of the trailer off of the hitch.
9. Uncouple trailer from tow vehicle.
10. Pull tow vehicle away from the trailer and park at a safe distance.

NOTE: To utilize the Power Tongue Jack for the unhitching process, see "Operation - Power Tongue Jack" section.

Auto Level

1. Prior to auto leveling, make sure the trailer is unhitched from the tow vehicle and the tow vehicle is parked a safe distance away from the trailer.
2. Press the "On/Off" button (Fig. 16I) on the Linc Remote to turn the device "On."
3. Enter a PIN.
4. Choose the "Leveler" option.
5. Press "AUTO LEVEL" (Fig. 16H).

NOTE: Once the automatic leveling cycle has been started, it is important that there is no movement in the trailer until the leveling process is complete. Failure to remain still during the leveling cycle could have an effect on the performance of the leveling system.

NOTE: Pressing any button on the Linc Remote during an AUTO LEVEL sequence will abort the auto leveling cycle. To restart the AUTO LEVEL process, refer to "Operation - OneControl Touch Panel" section.

6. When the auto leveling sequence begins:
 - A. The system checks that the rear jacks are retracted.
 - B. The Power Tongue Jack may adjust, depending on the orientation of the trailer.
 - C. Front jacks will extend until movement of the trailer is sensed.
 - D. The Power Tongue Jack will then retract.
 - E. The front jacks will extend/retract near level.
 - F. Rear jacks will extend and ground.
 - G. Trailer will level front-to-rear, then side-to-side.
 - H. The AUTO LEVEL sequence will ground all jacks to ensure all foot pads are on the ground and auto leveling is complete.
 - I. The Auto LEVEL sequence is complete when the indicator light turns solid green.

NOTE: Step 6 may repeat several times, if the controller deems necessary.

NOTE: If the AUTO LEVEL sequence does not perform as described above, test that the jacks operate correctly by pushing their corresponding buttons on the Linc Remote; e.g., "Front" button only operates the front jacks, etc. The jacks can also be tested in manual mode from the OneControl Touch Panel (Fig. 4). See "Operation - OneControl Touch Panel" section.

NOTE: There is no Hitch Recognition sequence programmed for the Linc Remote.

Troubleshooting

Red/Green LED Indicator Light - Auto Leveling Control Touch Pad

LED Condition	Mode
Off	Touch pad is locked.
Solid Green	Touch pad is active.
Blinking Green	Jacks are moving.
Solid Red	Low battery.
Blinking Red	Error - Refer to OneControl Touch Panel or the OneControl App. screen for the specific error code, then consult the OneControl Touch Panel/App. chart to clear the error.

Error Display Screen - OneControl Touch Panel/App.

NOTE: Errors can only be cleared via the OneControl Touch Panel (Fig. 4) or the OneControl App. The only exception is when the Auto Leveling Control Touch Pad (Fig. 3) was used to abort an auto sequence. In this case, the error can be cleared by pressing any Auto Leveling control button. Correct Error to clear it, then press "OK." If Error persists, message will continue to display.

LCD Message	What Is Happening?	What Should Be Done?
"EXCESS ANGLE"	Unsecured sensor.	Check and secure sensor placement.
	Uneven or sloped site.	Relocate the trailer.
"EXCESSIVE ANGLE"	Sensor not properly secured.	Check and secure sensor placement.
	Excessive angle reached during manual operation.	Relocate the trailer.
"BAD CALIBRATION"	Trailer Zero Point was not set correctly.	Reset Zero Point. See "Zero Point Calibration" section.
"FEATURE DISABLED"	Hitch recognition requested but no hitch height set.	Perform "AUTO LEVEL" sequence to establish hitch height.
	Zero Point not set.	Set Zero Point. See "Zero Point Calibration" section.
"LOW VOLTAGE"	Bad connection or wiring.	Check wiring - repair or replace.
	Discharged or bad battery.	Test battery voltage under load - charge or replace.
"OUT OF STROKE"	Unsecured controller.	Check and secure controller placement.
	Uneven or sloped site.	Relocate the trailer.
"EXTERNAL SENSOR"	Bad connection or wiring.	Replace or repair connection to rear remote sensor.
"JACK TIME OUT"	System could not level in expected time.	Check for obstructions, leaks, fluid level and voltage to power unit motor under load.
"AUTO LEVEL FAILURE"	Unsecured controller.	Check and secure controller placement.
	Voltage drop.	Test battery voltage under load - charge or replace.
"FUNCTION ABORTED"	User has aborted an automatic leveling sequence.	Restart the sequence.
"HALL POWER SHORT"	Short circuit detected on one or more of the jack power lines.	Check harness and replace or repair.
"CAN'T COMPLETE LEVEL IN THIS LOCATION. PLEASE RELOCATE RV TO FLATTER TERRAIN"	The trailer is parked on a steep incline during auto level. The front cannot be leveled and the front jacks are already fully retracted.	Relocate the trailer.

Special Jack Error Codes

To clear special jack error code, do as follows:

1. Correct or otherwise repair the issue. See Touch Panel Error Code Chart.
- NOTE:** In order to clear special jack error codes the jacks need to be “homed.” In order to “home” jacks, each jack must be able to retract a minimum of 6”.

NOTE: The Power Tongue Jack does not need to be “homed.” The Power Tongue Jack cannot be operated from the OneControl Touch Panel or OneControl App from myRV while clearing special jack error codes. The Power Tongue Jack can be operated using the “RET/EXT” switch on the tongue jack during this procedure.
2. Extend all jacks to reach the 6” of minimum retract needed.

A. If required, press “EXTEND” and “FRONT” to extend the front jacks. Refer to “Operation - OneControl Touch Panel” and “Operation - OneControl App. from myRV” sections.”

B. Press “EXTEND” and “REAR” to extend the rear jacks (if required). Refer to “Operation - OneControl Touch Panel” and “Operation - OneControl App. from myRV” sections.”
3. Press “ENTER” to AUTO RETRACT. The jacks will retract until they reach the hard current limit. The Power Tongue Jack will perform an automatic grounding during the AUTO RETRACT sequence.
4. The jacks are now “homed” and the special jack error code will be cleared.

Touch Panel Error Code Chart

Touch Panel Message?	What Is Happening?	What Should Be Done?
ERROR Left-Front Jack Fault Right-Front Jack Fault Left-Rear Jack Fault Right-Rear Jack Fault Tongue Jack Fault	Error at a specific jack (left front, right front, left middle, right middle, left rear, right rear, tongue). Hall signal issue (open, short, malfunction or loss of communication); open or short circuit between controller and motor.	Check voltage at the battery under load.
		Check harness connections at controller and at jack.
		Check harness for damage.
		Check fuses at controller.
		Repair or replace as necessary.

Zero Point Calibration

The "Zero Point" is the programmed point that the trailer will return to each time the Auto Level feature is used. Zero Point must be programmed prior to using the Auto Level feature to ensure the proper operation of the leveling system. The Zero Point feature is only available on the OneControl Touch Panel leveling system.

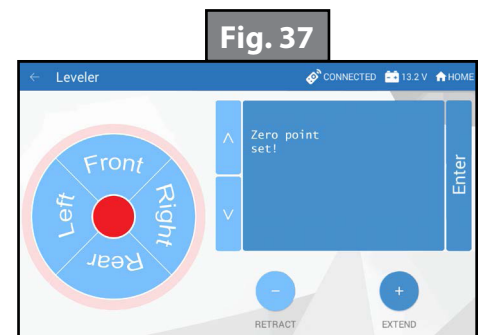
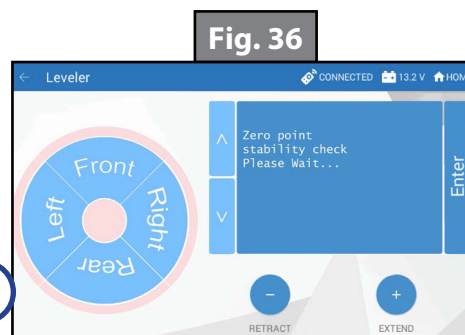
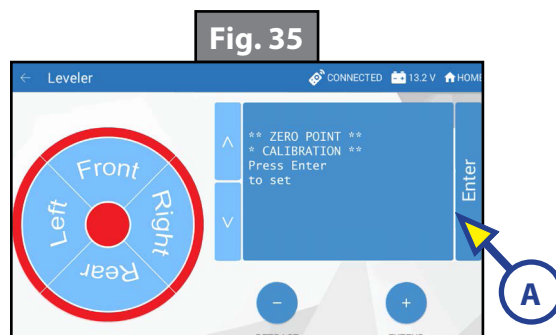
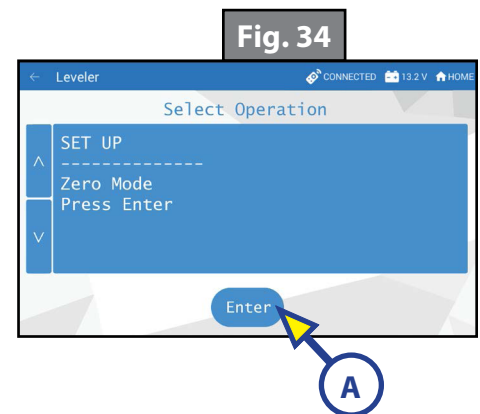
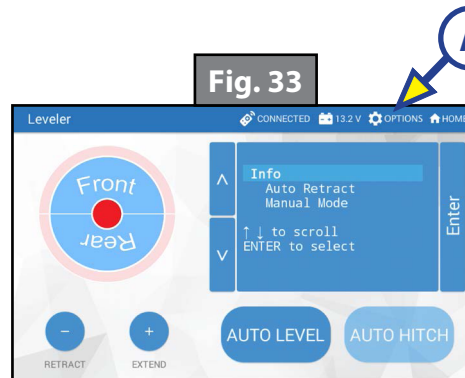
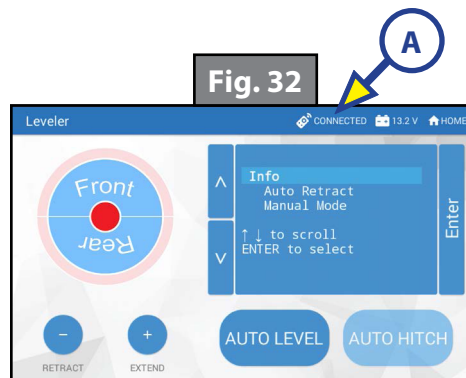
NOTE: Prior to starting this procedure, double check all connections on the controller, jacks and touch panel.

NOTE: When calibrating Zero Point, the user has full manual control over the jacks. See "Basic Jack Operation In Manual Mode in the "Operation - OneControl Touch Panel" section to adjust to the desired level position. Press the "Enter" (Fig. 4H) button to set.

Setting the Zero Point

NOTE: The following procedure works from Standard Mode only. See "Basic Jack Operation In Standard Mode" in the "Operation - OneControl Touch Panel" section.

1. Press the "CONNECTED" icon (Fig. 32A) at the top of the leveling screen, quickly six times. Wait a few seconds until the gear icon with "OPTIONS" appears (Fig. 33A).
2. Press the gear icon with "options" (Fig. 33A).
3. The screen will show "SET UP: Zero Mode, Press Enter" (Fig. 34).
4. Press the "Enter" button (Fig. 34A).
5. The touch panel will present options for further leveling of the trailer, if needed. The screen will also state "ZERO POINT CALIBRATION. Press Enter to set" (Fig. 35).
6. Press "Enter" (Fig. 35A).
7. Screen will show "Zero point stability check. Please wait..." (Fig. 36), followed by "Zero point set!" (Fig. 37).



⚠ CAUTION

Moving parts can pinch, crush or cut. Keep clear and use caution.

Manual Override

NOTE: For ease of manual override it is recommended to unplug the power harness to the motor prior to performing the manual override procedure.

⚠ CAUTION

Do not use an impact screw gun to perform any of the override procedures, as this may damage the motor

NOTE: Use of a 12-18 volt cordless screw gun or pneumatic screw gun is acceptable to manually override the jacks. If manual override is necessary there are two options for each style of jack.

NOTE: If the travel trailer is equipped with four C-Jacks, the override procedure is the same for the front and rear.

2K or 3K C-Jack Motor Override:

Tools needed: A $\frac{3}{8}$ " drive ratchet and extension, no socket.

1. Find the port on the jack gearbox (Fig. 38A).
2. Remove the rubber plug (Fig. 39A).
3. Insert the $\frac{3}{8}$ " drive ratchet into the port.
4. Turn the override until the jack extends or retracts to desired position.

2K or 3K C- Jack Manual Override Nut:

Tools needed: $\frac{3}{4}$ " socket and ratchet

1. Locate the manual override nut (Fig. 38B).
2. Place $\frac{3}{4}$ " socket and ratchet over the manual override nut (Fig. 40A) and turn the override nut until the jack extends or retracts to desired position.

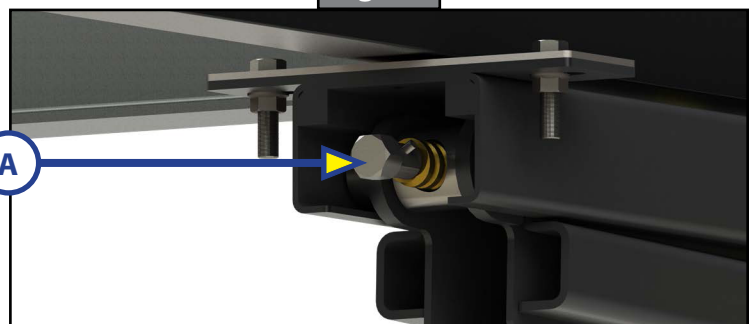
Fig. 38



Fig. 39



Fig. 40



5K Jack - Top of Jack Motor Override:

Tools needed: $\frac{3}{8}$ " drive ratchet and extension, no socket.

1. Find the port on the top of the jack motor (Fig. 41A).
2. Remove the rubber plug (Fig. 42A).
3. Insert the $\frac{3}{8}$ " drive ratchet into the port (Fig. 43).
4. Turn the override until the jack extends or retracts to desired position.

5K Jack - Bottom of Jack Motor Override:

Tools needed: $\frac{3}{8}$ " drive ratchet and extension, and a $\frac{5}{16}$ " socket.

1. Find the port on the bottom of the jack motor (Fig. 41B).
2. Remove the rubber plug (Fig. 44A).
3. Insert the $\frac{5}{16}$ " socket into the port and onto the nut (Fig. 45A).
4. Turn the override until the jack extends or retracts to desired position.

Fig. 41

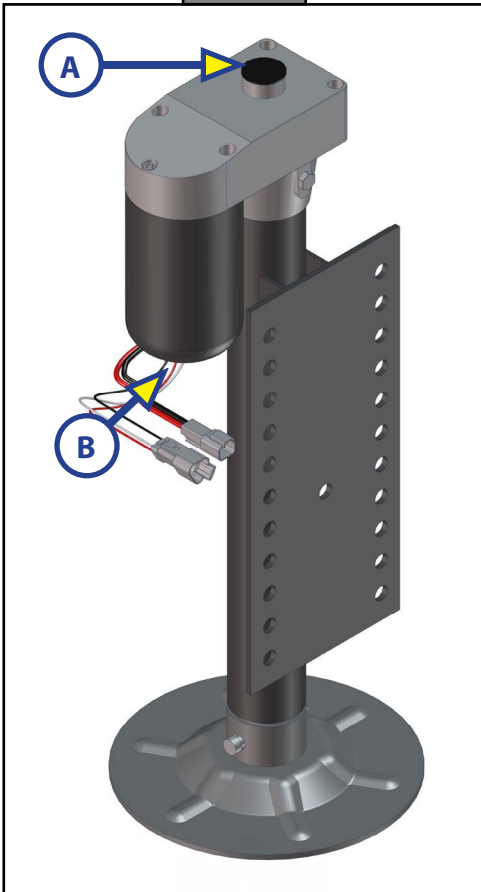


Fig. 42

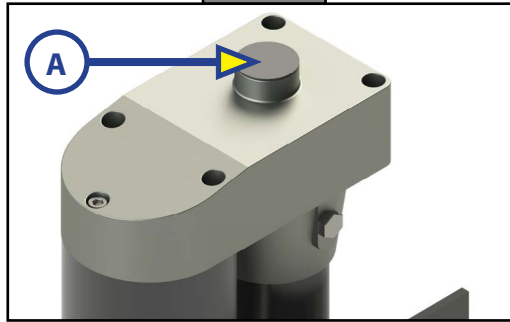


Fig. 43



Fig. 44

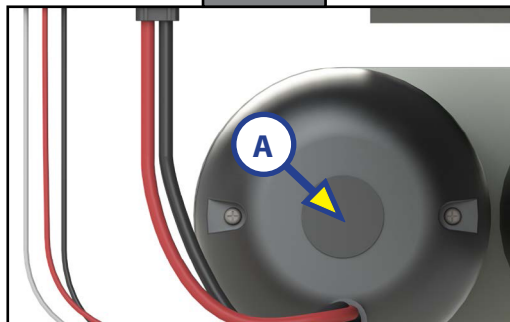
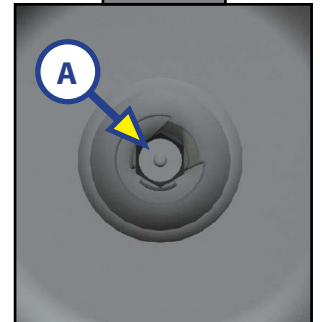
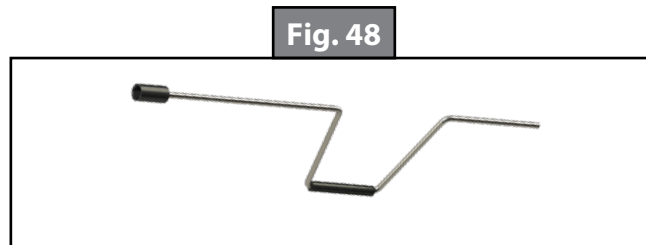
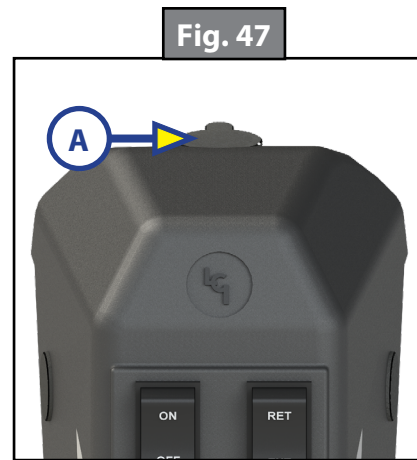
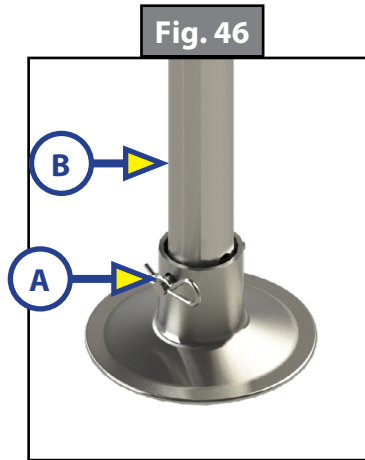


Fig. 45



Power Tongue Jack Manual Override

1. Chock the tires of the trailer.
2. Make sure the footpad of the Power Tongue Jack is pinned securely in place with the clevis pin and hairpin cotter pin (Fig. 46A).
3. Open the rubber plug (Fig. 47A) on top of the Power Tongue Jack's gearbox to expose the override nut. Insert the manual crank handle (Fig. 48).
4. Turn the override until the jack extends or retracts to desired position.
5. Remove the crank handle.
6. Replace the rubber plug.
7. Make sure the leg (Fig. 46B) of the Power Tongue Jack is fully retracted prior to moving the tow vehicle.



Preventive Maintenance

1. For optimum performance, the system requires a fully charged battery to maintain required currents and voltages. Keep battery at full capacity whenever possible.
2. Check battery terminals and other battery connections, the controller and the jacks for corrosion and loose or damaged connections.
3. Remove dirt, road debris and grease from jacks as needed. Then lightly lubricate the jack screw and wipe off any excess lubrication, leaving only a thin coating for protection.



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