GROUND CONTROL® TT LEVELING WITH ONECONTROL™ TOUCH PANEL

OEM INSTALLATION MANUAL

LIPPERT COMPONENTS®

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Safety Information

NOTE: Lippert Components, Inc. (LCI) recommends that the following installation procedures should only be performed by qualified and trained personnel. Please read all Safety Information and instructions prior to starting this procedure. Lippert Components also recommends the use of appropriate Personal Protective Equipment (PPE) while performing any portion of this installation.

⚠WARNING

Failure to act in accordance with the following may result in death, serious injury, trailer damage or voiding of the component warranty.

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

⚠CAUTION

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

NOTE: The images in this manual are designed to illustrate the installation procedure only and may not represent the exact trailer being worked on. The appearance of some components may vary from trailer to trailer.

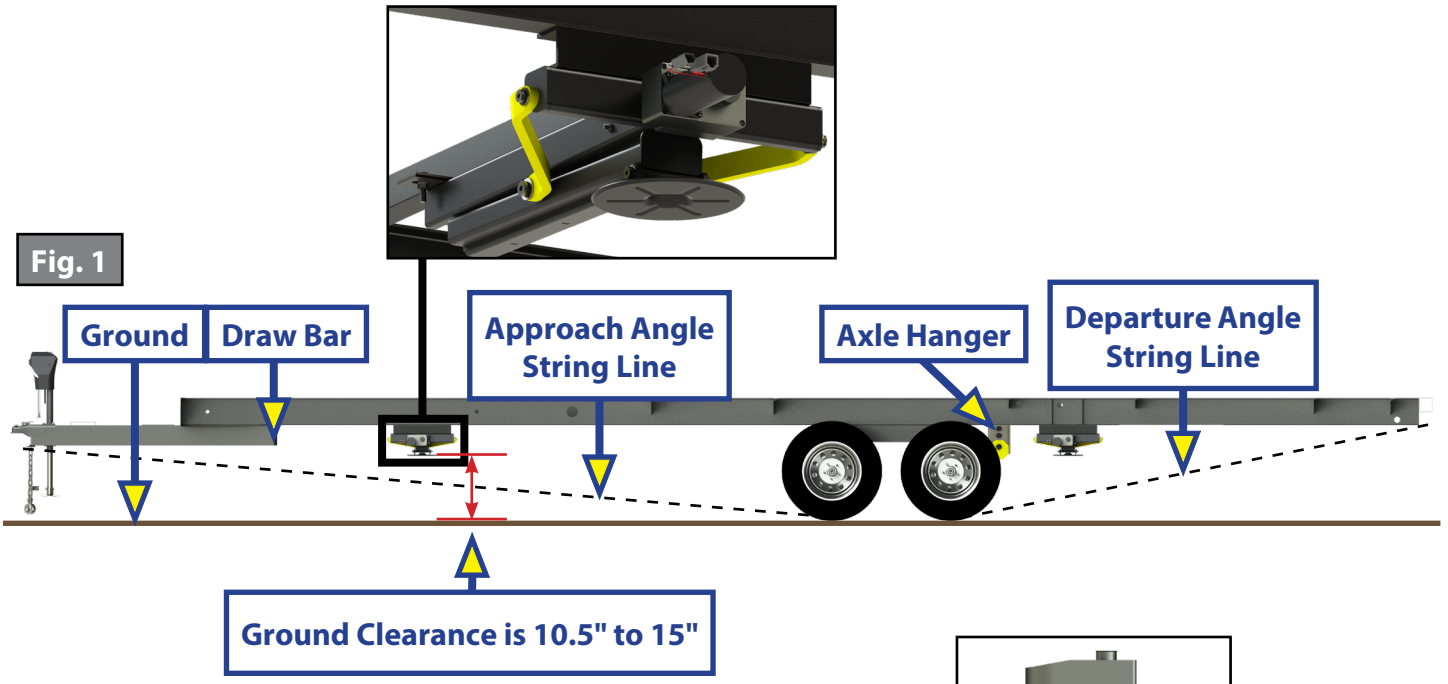
Resources Required

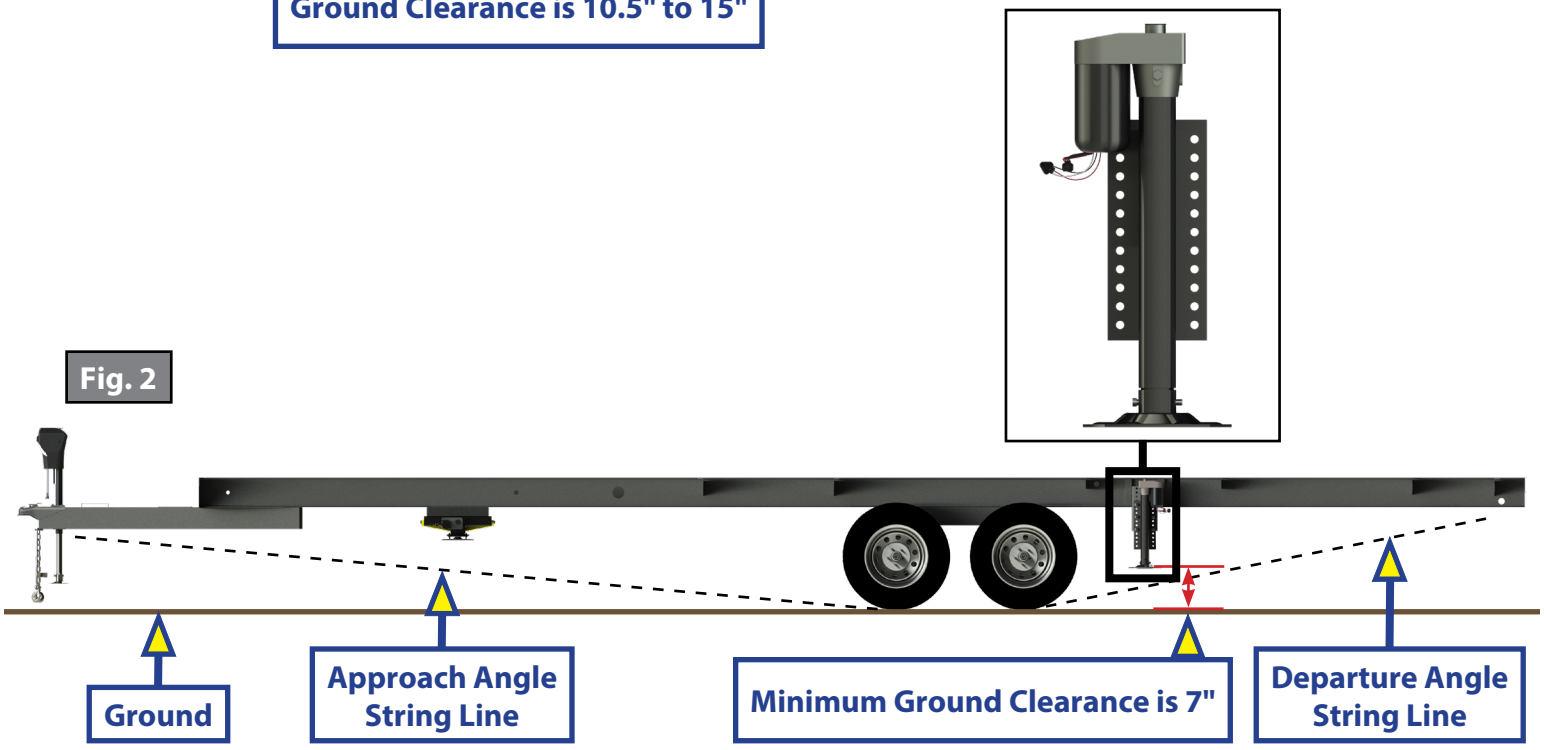
- Cordless or Electric Drill or Screw Gun
- Appropriate Drive Bits
- 5⁄16" Drill Bit
- 1⁄2" Ratchet
- Deep Well Socket
- 9⁄16" Open Face Wrench
- String
- Silver or White Paint or Permanent Marker
- 2 Clamps

Measuring Departure and Approach Angle

Departure and approach angles are measured by running a string line from the meeting point of the tire and ground up at an angle to the lowest point on the front or rear of the trailer. These string lines are shown as dotted lines (Fig.1 and Fig. 2).

NOTE: C-Jacks shown for reference only to mark proper locations.





Installation

⚠WARNING

The trailer MUST be supported per manufacturer's specifications before working underneath . Failure to do so may result in death of serious injury

NOTE: Before checking ground clearance, make sure the trailer is level front to back.

For the 2K and 3K C-jack Leveling System, follow steps 1-4 for the front and the rear jacks. If installing 5K Jacks in the rear follow the 5K Jacks section.

NOTE: The height specifications for the C-jack Leveling System is a minimum of 10.5" and maximum 15" measured from the bottom of the footpad to the ground.

2K and 3K C-Jacks

NOTE: Figure 3 depicts C-jacks installed onto an OEM cross-member.

1. Starting on one side of the frame, align the jack assembly mounting holes with the holes on the mounting bracket assembly across the chassis road-side to curb-side.
2. Insert six ⅜" - 16 x 1 ½" bolts (Fig. 3A) through each set of aligned mounting holes.
3. Secure the bolts with ⅜" - 16 nuts (Fig 3B).
4. Torque the six ⅜" - 16 x 1 ½" bolts to 23 ft-lbs.

NOTE: Figure 4 illustrates the ⅜" - 16 x 1 ½" bolt within the C-channel of the mounting bracket assembly.

5. Connect the wire harnesses to the C-jack motor wires (Fig. 3C). Run the harnesses to the compartment where the controller will be mounted.
6. Repeat steps 1-5 on the other side.

NOTE: LCI recommends zip tying the wire harnesses tight against the front C-Jack motors to prevent damage to the wire harnesses.

Fig. 4

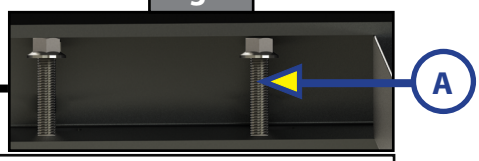
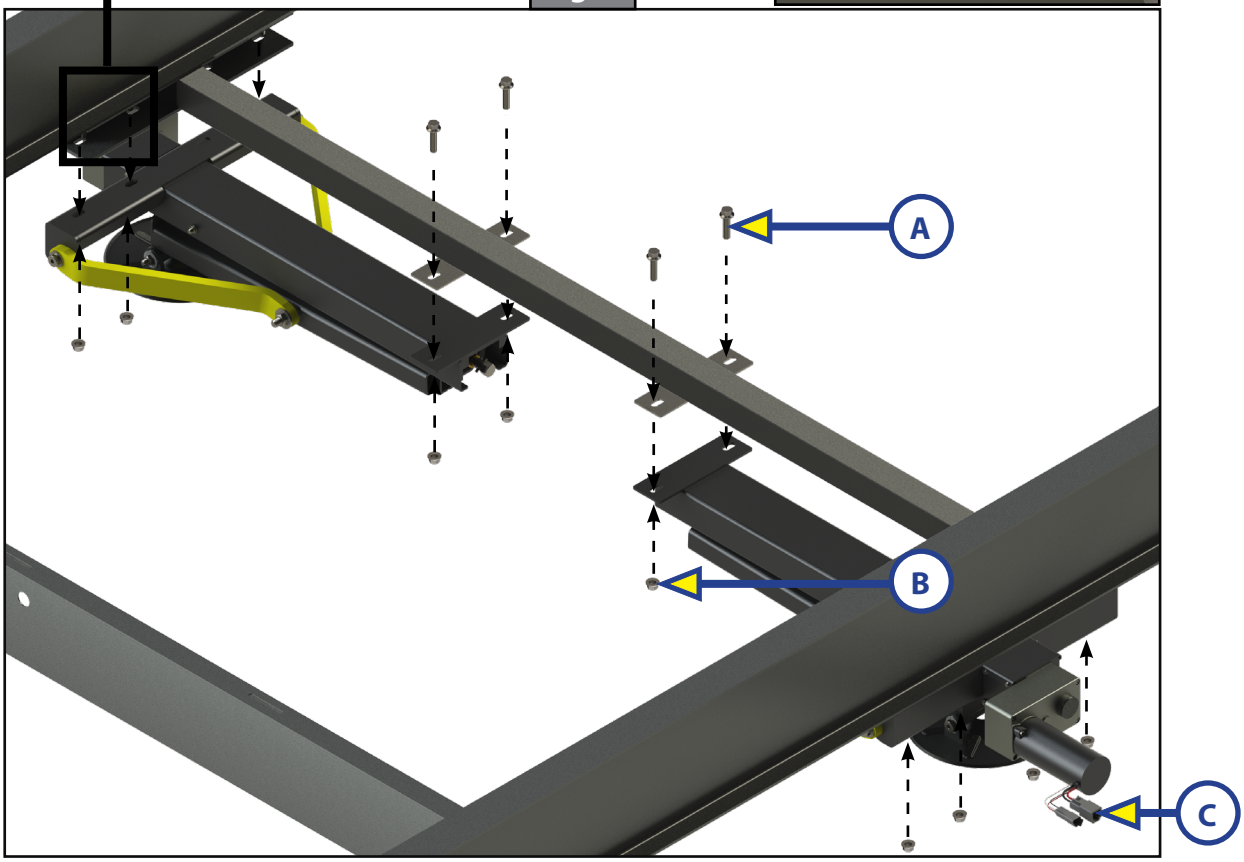


Fig. 3



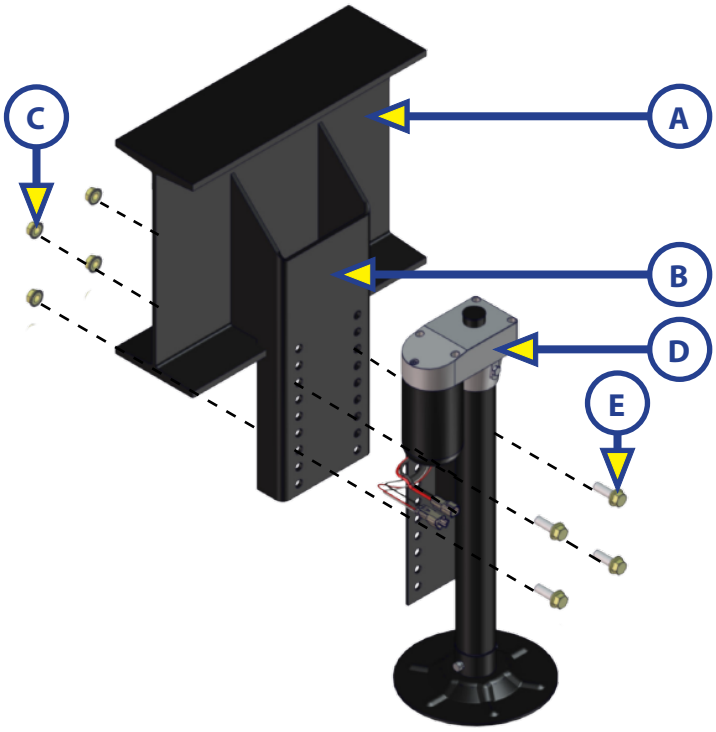
5K Jacks

NOTE: The height specification for the 5K Jack Leveling System is a minimum ground clearance of 7" measured from the bottom of the footpad to the ground.

1. Align the rear jack mounting plate holes with the holes in the rear jack mounting brackets (Fig. 5B) on the main frame rail (Fig. 5A). Set the rear jacks (Fig. 5D) at the proper height to ensure the rear jack foot panel is within the departure angle of the trailer.
2. Bolt the rear jacks (Fig. 5D) to the rear jack mounting brackets (Fig. 5B) using four ½" - 20 x 1 ½" bolts (Fig. 5E) and four ½" - 20 nuts (Fig. 5C) per jack. Tighten the bolts to 90 ft-lb of torque.
3. Connect the wire harnesses to the rear jack motor wires and run the harnesses to the compartment where the controller will be mounted.
4. Repeat steps 1-3 for the other side.

NOTE: LCI recommends zip-tying the harnesses tight against the rear jack motors to prevent damage to the wire harnesses.

Fig. 5



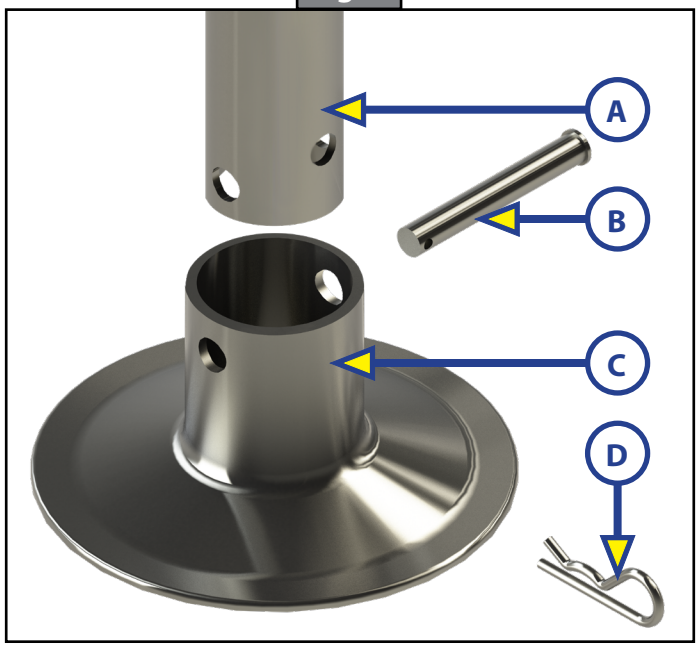
⚠WARNING

The trailer MUST be supported per manufacturer's specifications before working underneath . Failure to do so may result in death of serious injury

Power Tongue Jack

1. Remove the footpad from the Power Tongue Jack, if necessary.
   - **A.** Remove the hairpin cotter pin (Fig. 6D) and clevis pin (Fig. 6B) holding the footpad (Fig. 6C) to the jack leg (Fig. 6A). Set the pins and the footpad aside.

Fig. 6



2. Support the trailer according to manufacturer's instructions.
3. Carefully slide the jack leg (Fig. 7A) through the hole in the coupler (Fig. 7B) on the trailer A-frame (Fig. 7C).
4. Align the three holes in the Power Tongue Jack mounting plate (Fig. 8A) with the three holes in the coupler (Fig. 8B).
5. Secure the Power Tongue Jack to the coupler plate with three ⅜" - 16 x 1" bolts (Fig. 9A).
6. Connect the two Deutsch Connectors (Fig. 8D) from the Power Tongue Jack to the tongue jack harness.
7. Connect the tongue jack harness to the controller, see Wiring Diagram section.
8. Connect the power wire (Fig. 8C) from the Power Tongue Jack to a grounded 12V power supply on the trailer.

NOTE: The Power Tongue Jack has an option to replace the footpad or attach the Drop Leg Footpad.

9. Reattach the footpad to the jack leg by sliding the footpad (Fig. 6C) over the bottom of the jack leg (Fig. 6A). Secure the footpad with the clevis pin (Fig. 6B) and cotter pin (Fig. 6D) which were previously removed.

NOTE: The Power Tongue Jack has an option to replace the footpad with the Drop Leg Footpad.

10. If using the Drop Leg Footpad, insert the footpad leg (Fig. 10C) into the jack leg (Fig. 10A). Secure the footpad to the jack leg with the snapper pin (Fig. 10B).

Fig. 7

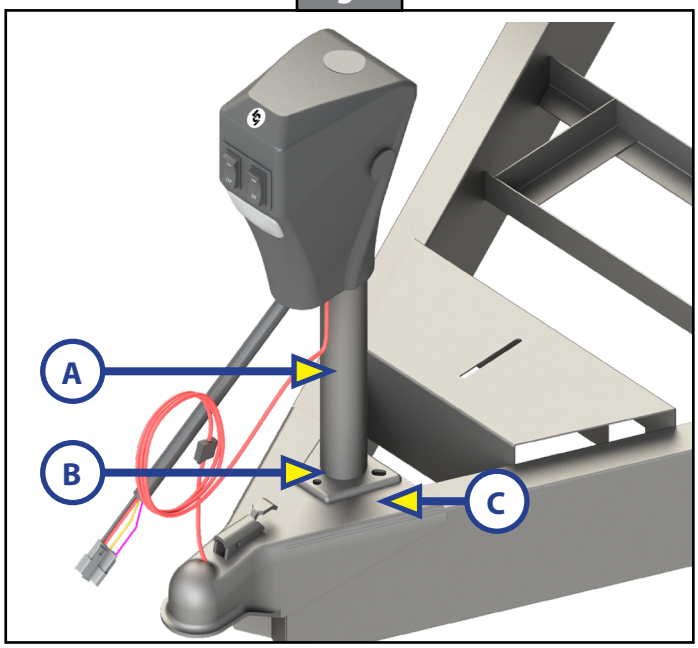


Fig. 8

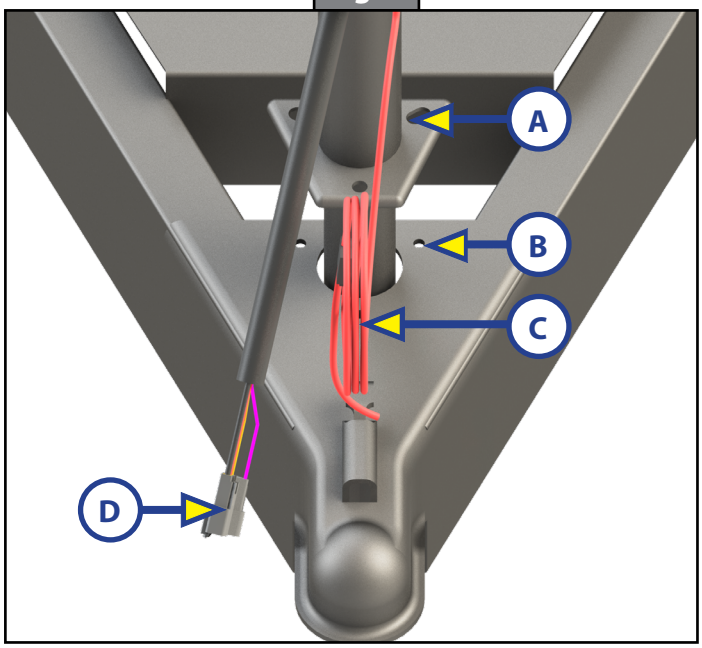


Fig. 9

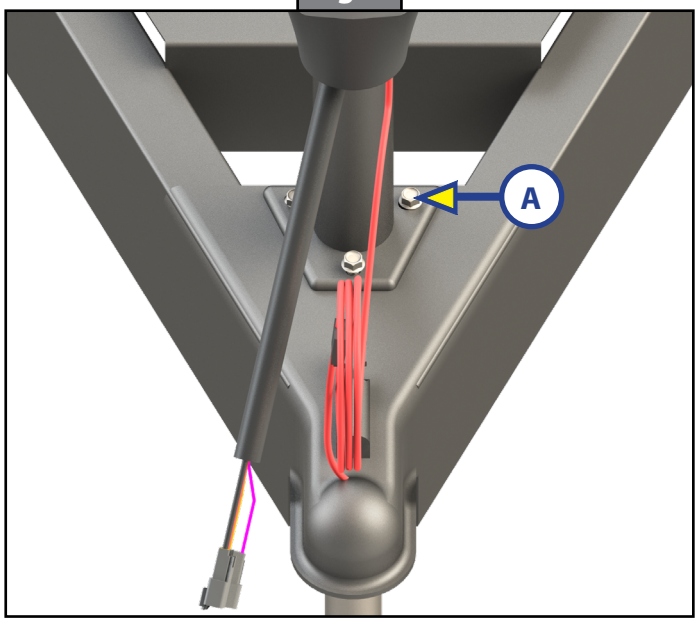
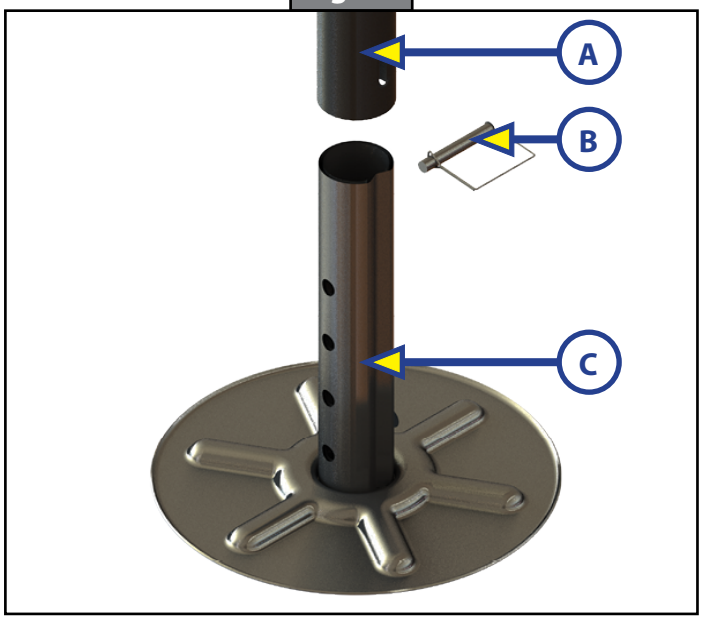


Fig. 10



Determining the Mounting Position and Installing Leveling Sensors

Mounting Position of Leveling Sensors

The leveling sensors have a limited mounting area for proper performance. The front sensor **MUST** be within 36" from the front of the frame as signified by Section A in (Fig.11). Ensure that the front sensor is mounted in line or in front of the front leveling jacks. The rear sensor **MUST** be in line with or behind the rear leveling jacks, as signified by Section B in (Fig.11 and Fig. 12). Both the front sensor and the rear sensor **MUST** also be mounted in line with the center of the frame, as signified by the dotted blue centerline in (Fig.11 and Fig. 12).

Fig. 11

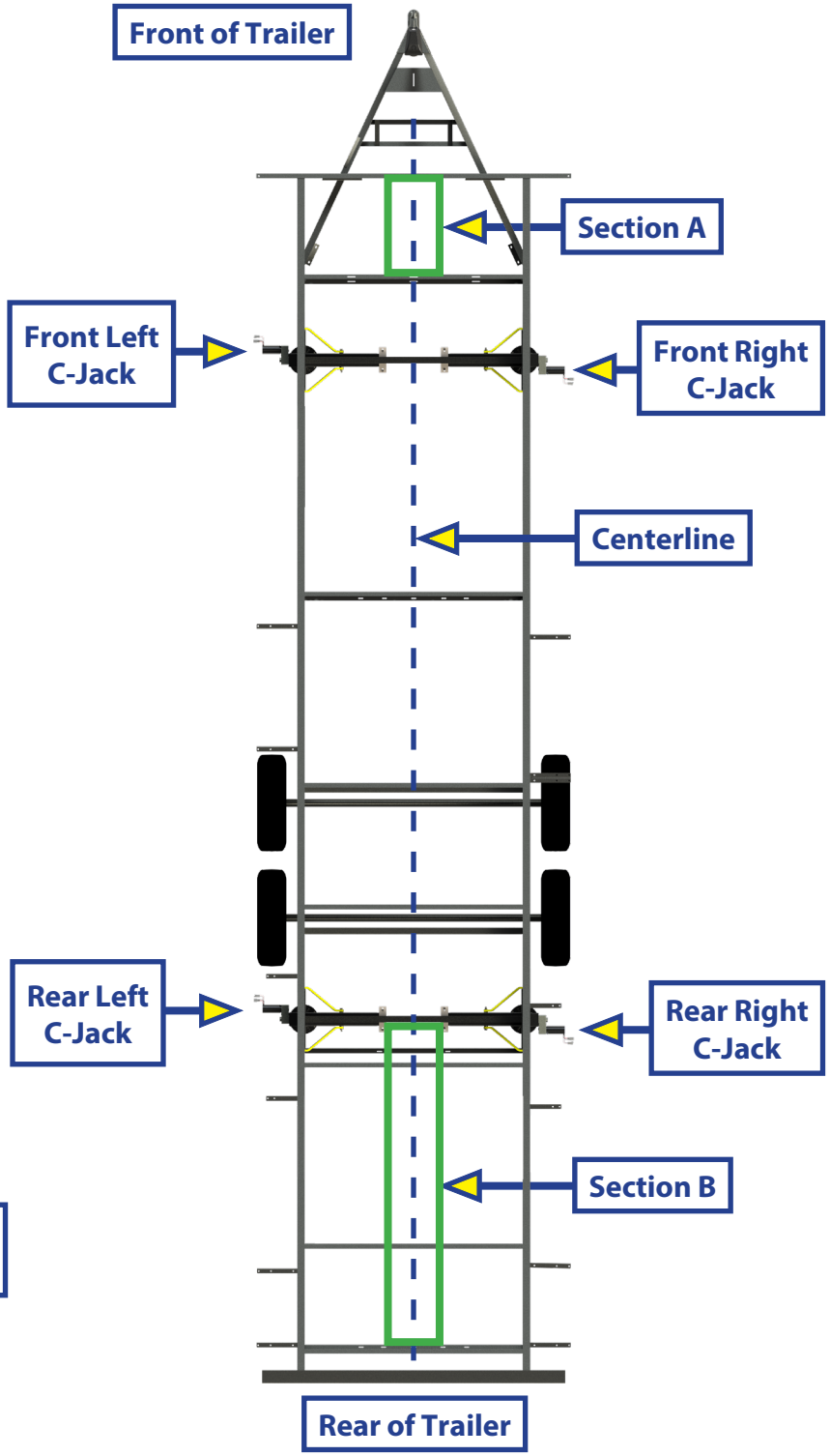
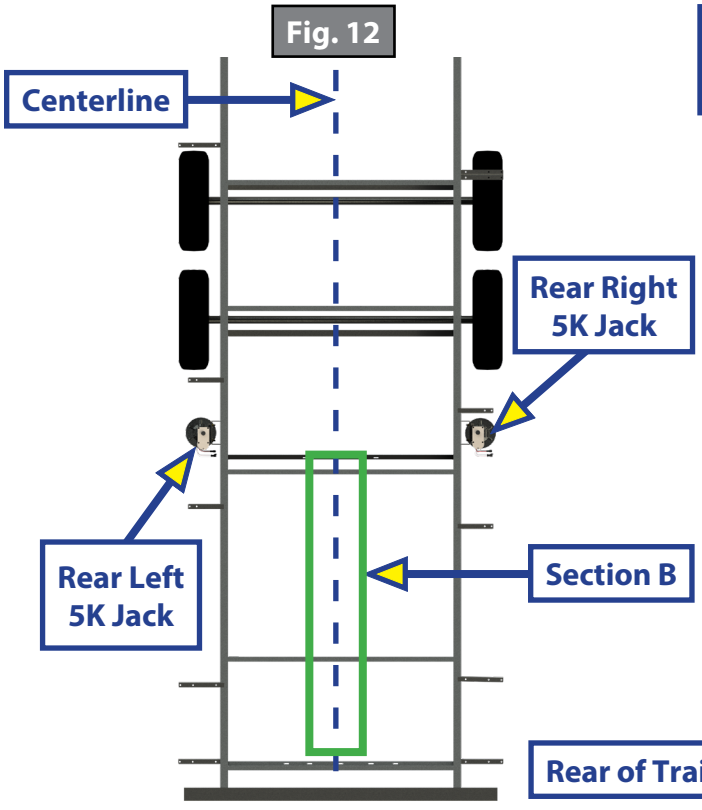


Fig. 12



Installing Leveling Sensors

The Leveling Sensors (Fig. 13) **MUST** be installed on cross-members in line with or behind the rear jacks, and in line with, or in front of, the front jacks, centered curbside to roadside on the trailer with the arrows on the top of the sensor pointing the correct direction (Fig. 14). See (Fig. 11), Sections A and B and (Fig. 12), Section B for location clarification.

Fig. 13

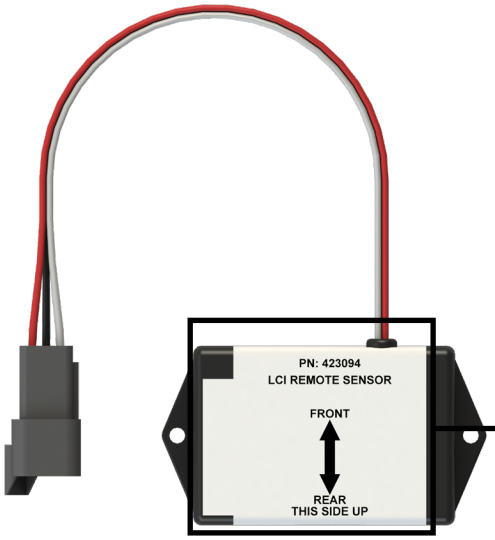
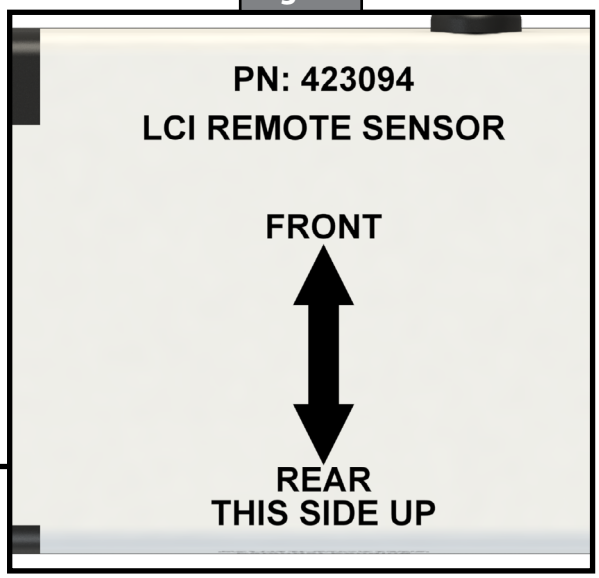


Fig. 14

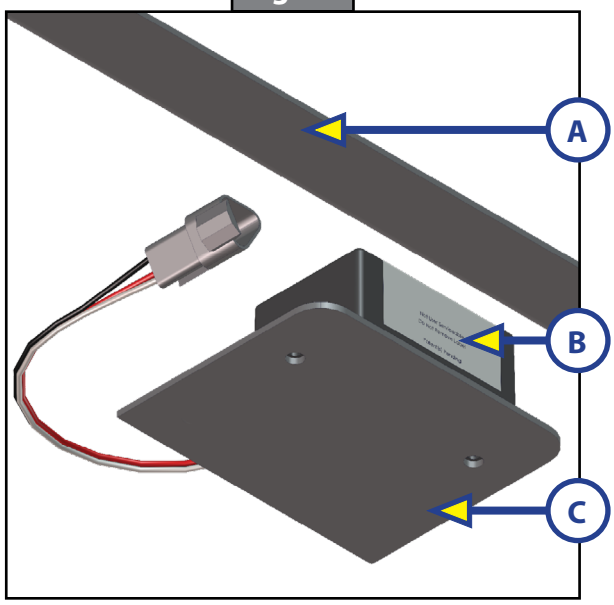


NOTE: The following process will be repeated for both sensor installations.

NOTE: Leveling sensor mounting plate might be pre-installed by LCI, if so perform step 2 and step 4.

1. Dry fit the mounting plate (Fig. 15C) and the leveling sensor (Fig. 15B) to the cross-member (Fig. 15A). The pre-drilled holes in the plate are for mounting the sensor to the plate. Mark on the plate where the sensor will set.

Fig. 15



NOTE: Leave space between the sensor (Fig. 15B) and cross-member (Fig. 15A) so the wire harness will not be pinched.

NOTE: The wire harness must be oriented towards the front of the trailer (Fig. 11 and Fig. 12). Proper orientation of the wire harness is imperative for correct operation of the leveling system.

2. Attach the sensor (Fig. 16A) to the mounting plate (Fig. 16B) using two #12 - 14 x 1" hex head self-drilling screws (Fig. 16C).

NOTE: To avoid cracking the mounting sensor housing, do not over-tighten the screws.

3. Attach the mounting plate and sensor assembly (Fig. 17B) to the cross-member (Fig. 17A) using two #12 - 14 x 1" hex head self-drilling screws (Fig. 17C). Ensure that the plate is centered side to side on the frame and that the sensor is oriented properly. See (Fig. 11 and Fig. 12) Sections A and B for location clarification.
4. Connect the sensor harness to the 3-Pin connector on the sensor (Fig. 18A) and run the harness through the frame and up to the compartment where the controller will be mounted.

Fig. 16

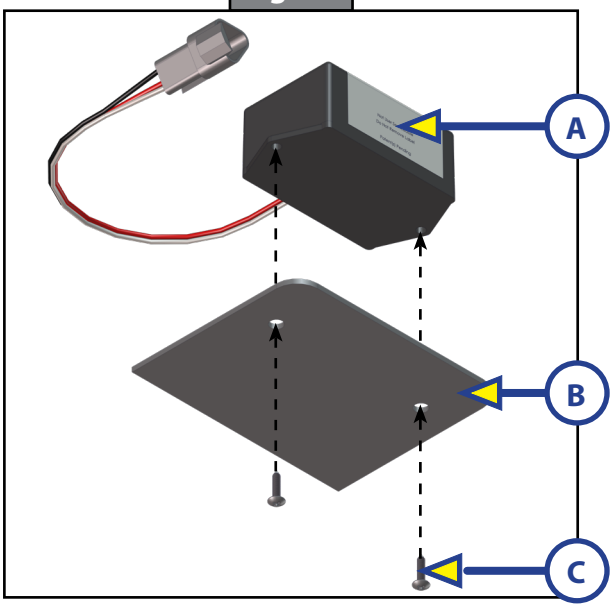


Fig. 17

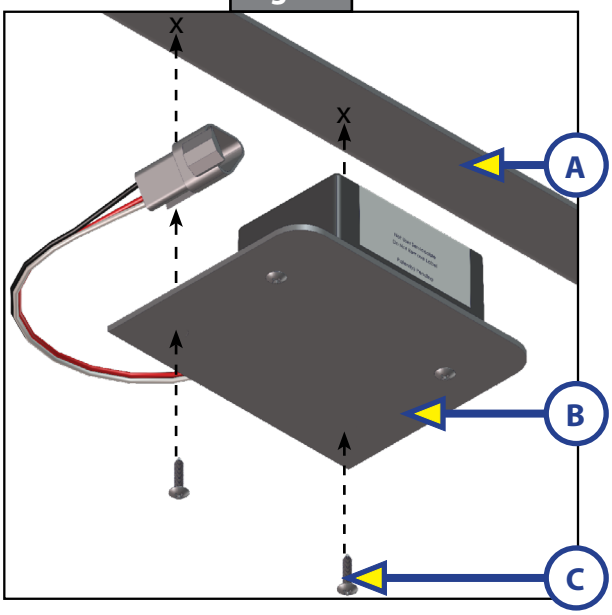
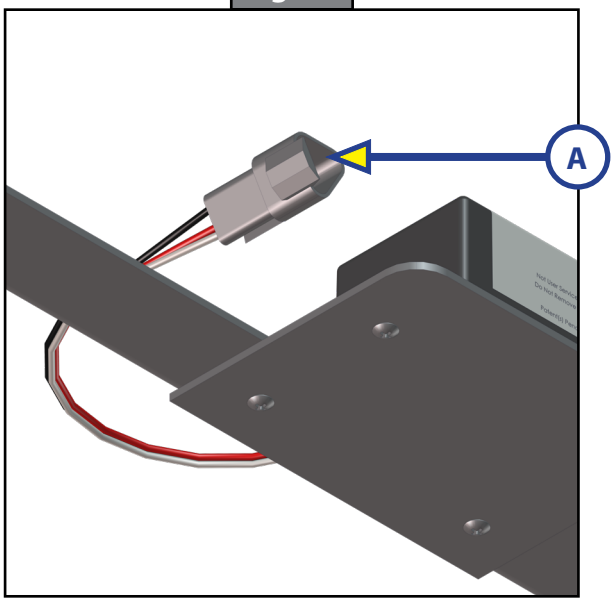


Fig. 18



Installing the Controller

NOTE: Prior to starting this portion of the installation, double check that all of the harnesses are properly and securely connected to the leveling jacks, Power Tongue Jack, and leveling sensors.

NOTE: The compartment where the controller will be installed must be protected from the elements and the controller **MUST** be installed in compliance with Recreational Vehicle Industry Association (RVIA) Gas Codes, since the controller connections are not spark-proof.

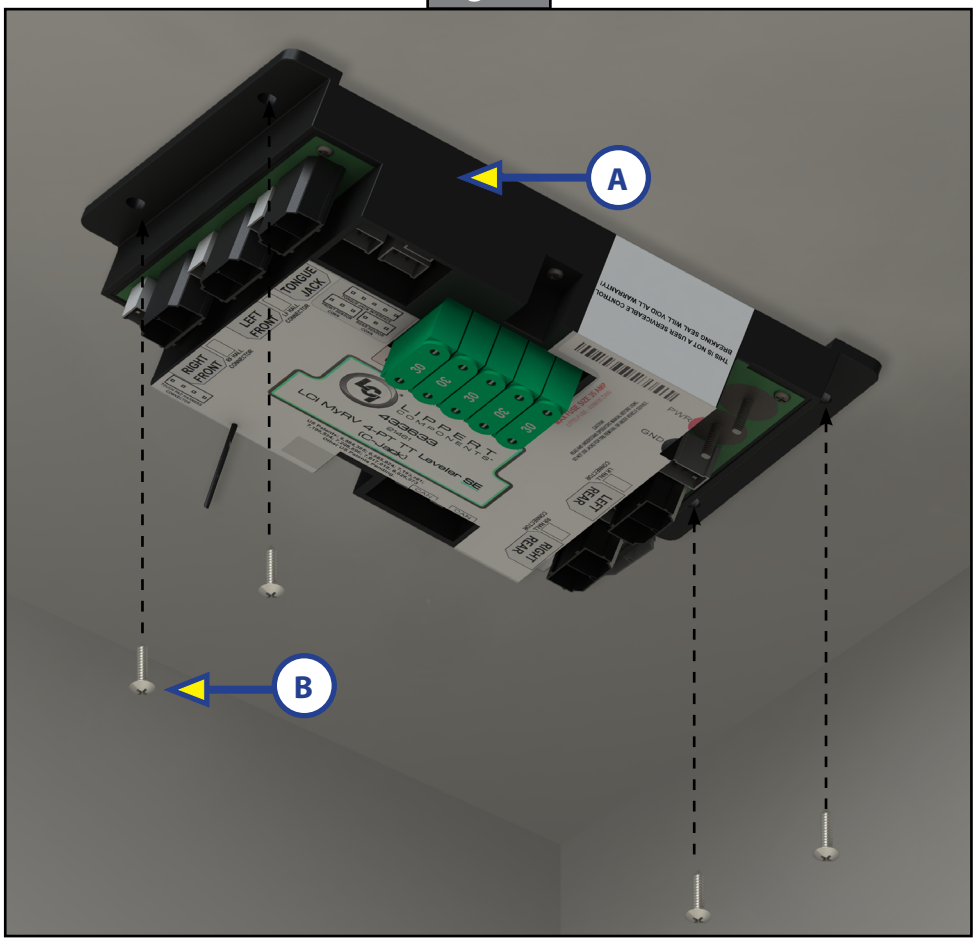
Controller Options

There are four different options for the controller depending on the installed leveling jack configuration.

- **A.** Install SE Green Controller (P/N 433633) for a four 3K C-Jack configuration (Fig. 1) 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 (Fig. 1) 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 (Fig. 2) 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 (Fig. 2) using Auto Leveling Control Touch Pad and OneControl Touch Panel.

1. Using four #8 x 1" wood screws (Fig. 19B), attach the controller (Fig. 19A) to the compartment wall or ceiling.

Fig. 19



2. Connect all jack wire harnesses to the appropriate connectors on the controller. See appropriate Wiring Diagram section.

3. Attach the power and ground electrical cables to the corresponding posts on the controller, then connect them to the correct posts on the trailer battery.

Installing the Touch Panels

OneControl Touch Panel

1. Determine where to mount the OneControl Touch Panel. The touch panel can be mounted anywhere inside the trailer or trailer compartment. The mounting location must be watertight. The typical location for the touch panel is near the entry door.
2. Dry fit the mounting bracket where the controller will be located.
3. Cut a hole in the wall of the compartment using the inside opening of the bracket as a guide.
   - **A.** Use the bracket to trace where the cut-out should be located.
   - **B.** The top and bottom horizontal cuts should be parallel to the floor of the compartment.
4. Secure the mounting bracket with the 4, provided ¼" pan head phillips sheet metal screws (Fig. 20).
5. Feed the touch panel harness through the bracket and into the compartment where the controller is mounted. Plug the wire harness into the appropriate connector on the controller. See appropriate Wiring Diagram section.
6. Insert the touch panel into the mounting bracket. Align the 4 slots on the back of the OneControl Touch Panel with the 4 tabs (Fig. 21A) on the mounting bracket. Gently push the OneControl in and then slide down. The mounting bracket has 2 screw mounting tabs on the bottom (Fig. 21B). Secure the touch panel into the screw mounting tabs using the 2 provided pan head phillips sheet metal screws.

Fig. 20

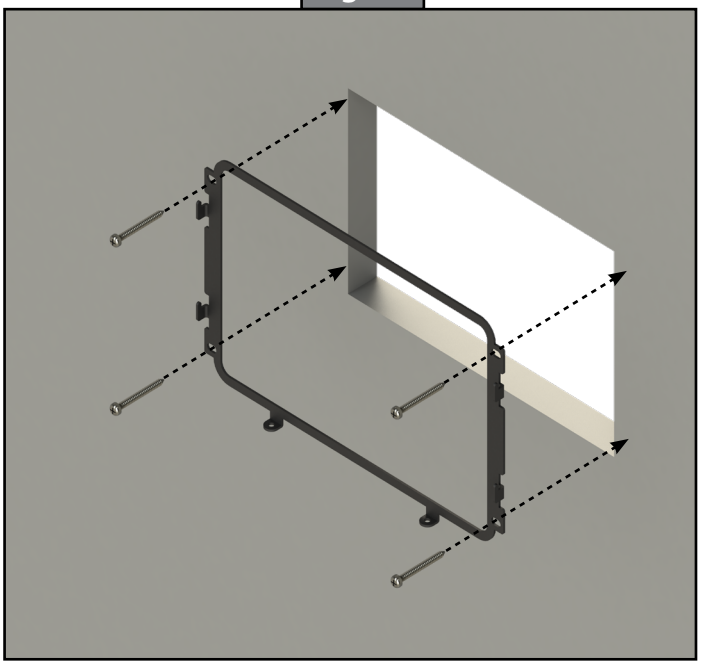
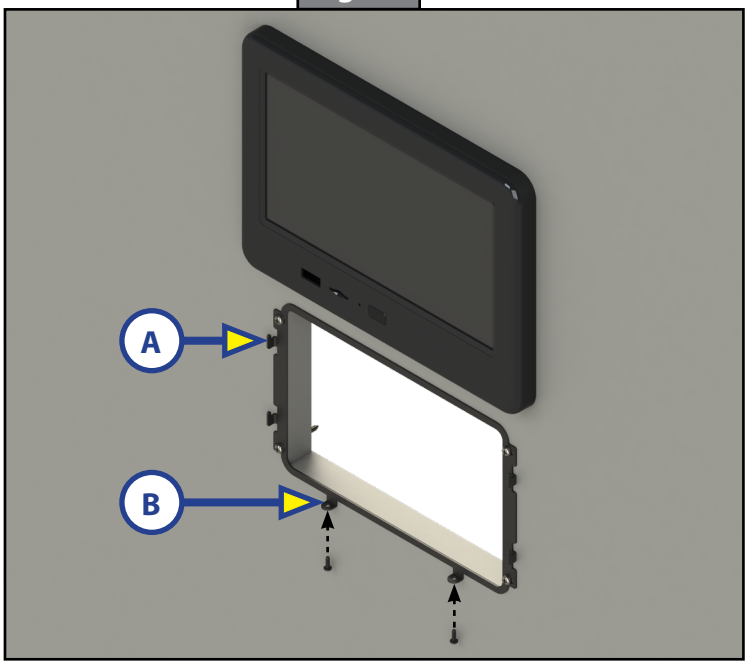


Fig. 21



Auto Leveling Control Touch Pad

1. Determine where to mount the Auto Leveling Control Touch Pad. The touch pad should be mounted on the exterior of the trailer so the operator will have a view of the coupler during operation.
2. Cut a hole in the desired location 1 ¾" wide by 1 ¼" high and a have a depth of ⅝" (Fig. 22) so the top and bottom horizontal cuts are parallel to the floor of the compartment or floor of the unit.
3. Plug the touch pad harness into the connector on the back of the touch pad to ensure that the product is functional before mounting.
4. Feed the touch pad harness through this hole and run it to the compartment where the controller is mounted (Fig. 23). Plug the harness into the appropriate connector on the controller.
5. Attach the control touch pad with four #8 x 18 x 1" self-drilling screws (Fig. 23A).

Fig. 22

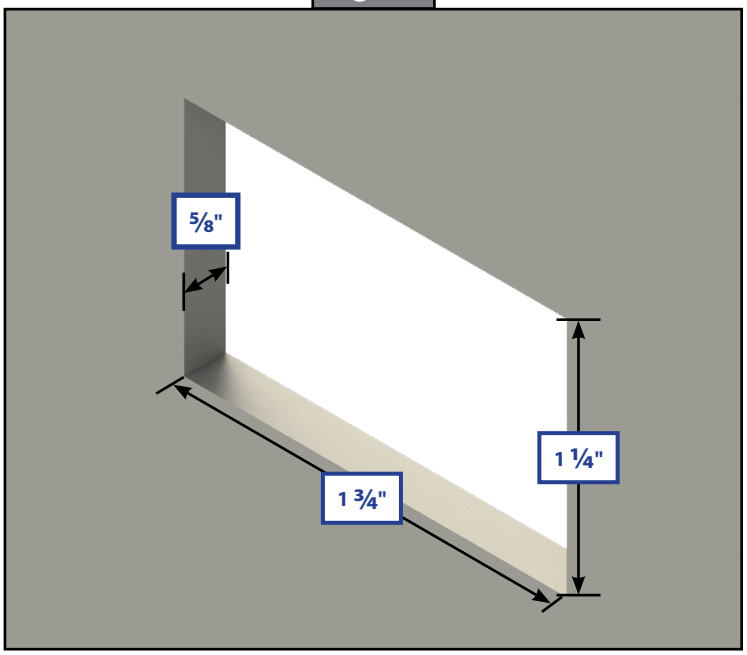
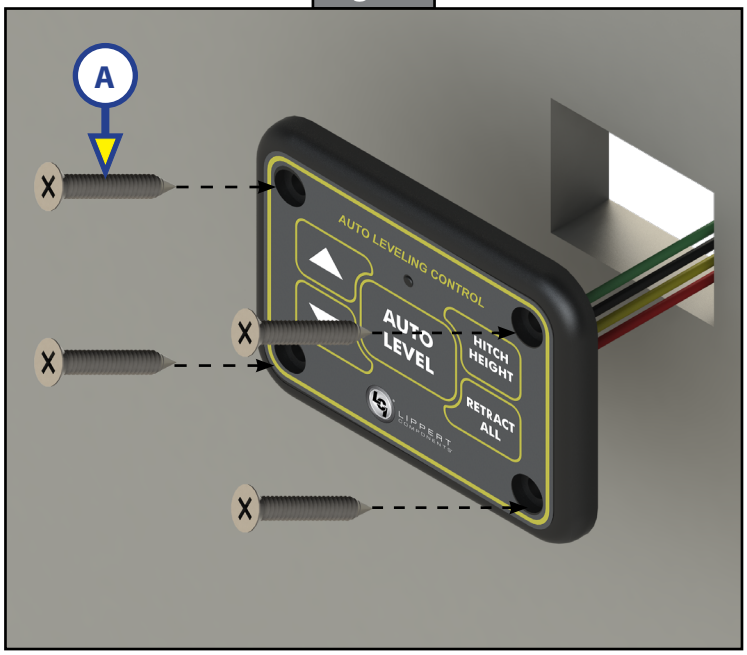


Fig. 23



Prior to Operation

⚠WARNING

Be sure to park the trailer on solid and level ground. Prior to operation, clear all jack landing locations of debris and obstructions. The locations should also be free of surface depressions and moisture. When parking the trailer on extremely soft surfaces, utilize load distribution pads under each jack.

Prior to operation, the jacks will need to be homed and the zero point **MUST** be set prior to Auto Leveling. The "Zero Point" is the programmed point that the trailer will return to each time the Auto Level feature is used.

Homing Jacks

If an error is not already present in the system, one will need to be introduced.

1. To introduce an error, disconnect one of the C-jack sensor harnesses at the controller.
2. Attempt to operate the jack that is associated with the sensor wire that was disconnected. The touch panel screen will display an error for that jack.
3. Reconnect the C-jack sensor wires. Manually extend all jacks down to a minimum of 6 inches.
4. Press and hold the "RETRACT" button (Fig. 29C) until all of the jacks begin to retract. The jacks will retract until they reach the hard current limit.
5. The jacks are now "homed."

NOTE: If the jacks do not retract, an error should display on the touch panel screen. This is typically caused by wiring interruption.

Zero Point Calibration

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" to adjust to the desired level position. Press the "Enter" (Fig. 24B) button to set.

Setting the Zero Point

NOTE: The following procedure works from Standard Mode only. See "Basic Jack Operation In Standard Mode" to reach Standard Mode.

1. Press the "CONNECTED" icon (Fig. 24A) at the top of the leveling screen quickly 6 times. Wait a few seconds until the gear icon with "OPTIONS" appears (Fig. 25A).
2. Press the gear icon with "OPTIONS" (Fig. 25A).
3. The screen will show "SET UP: Zero Mode, Press Enter" (Fig. 26).
4. Press the "Enter" button (Fig. 26A).
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. 7).
6. Press "Enter" (Fig. 27A).
7. Screen will show "Zero point stability check, Please wait..." (Fig. 28), followed by "Zero point set!" (Fig. 29).

Fig. 24

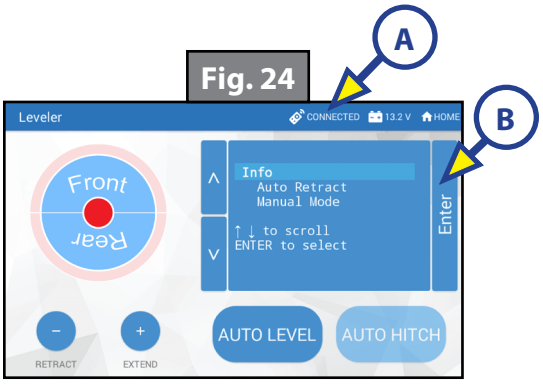


Fig. 25

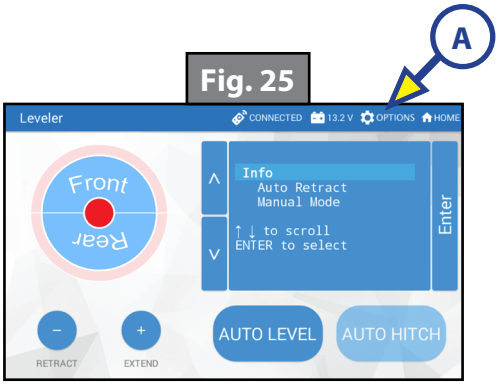


Fig. 26

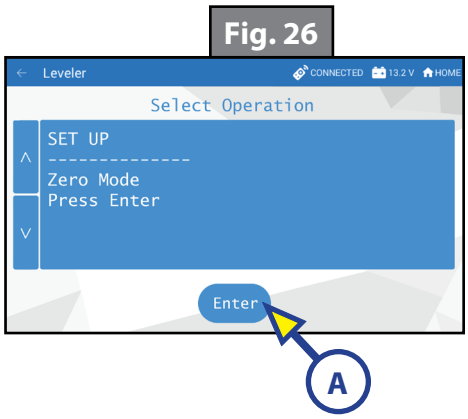


Fig. 27

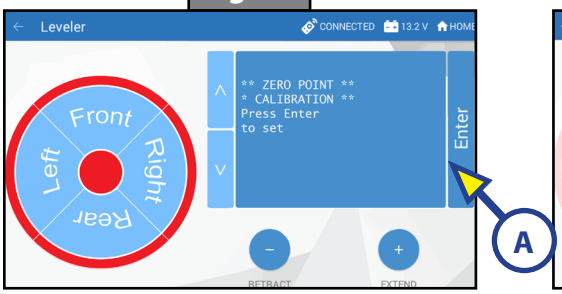


Fig. 28

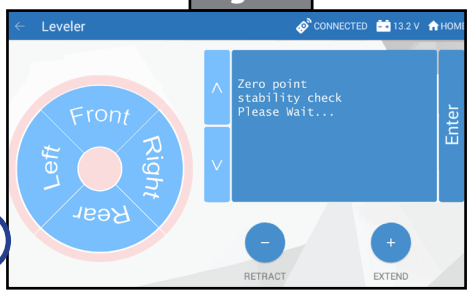
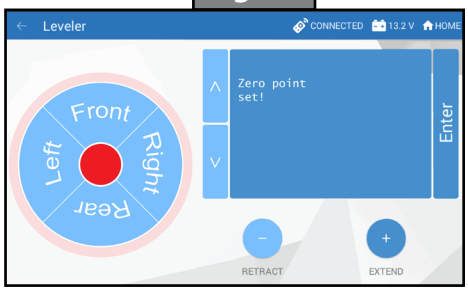


Fig. 29



Touch Panel Diagram - OneControl Touch Panel

Jack Buttons in Manual Mode See Fig. 32

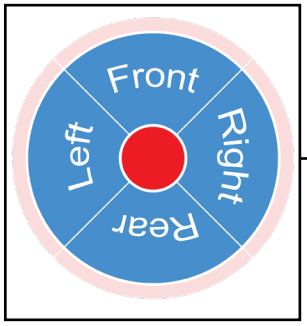


Fig. 30 - Leveling Standard Mode

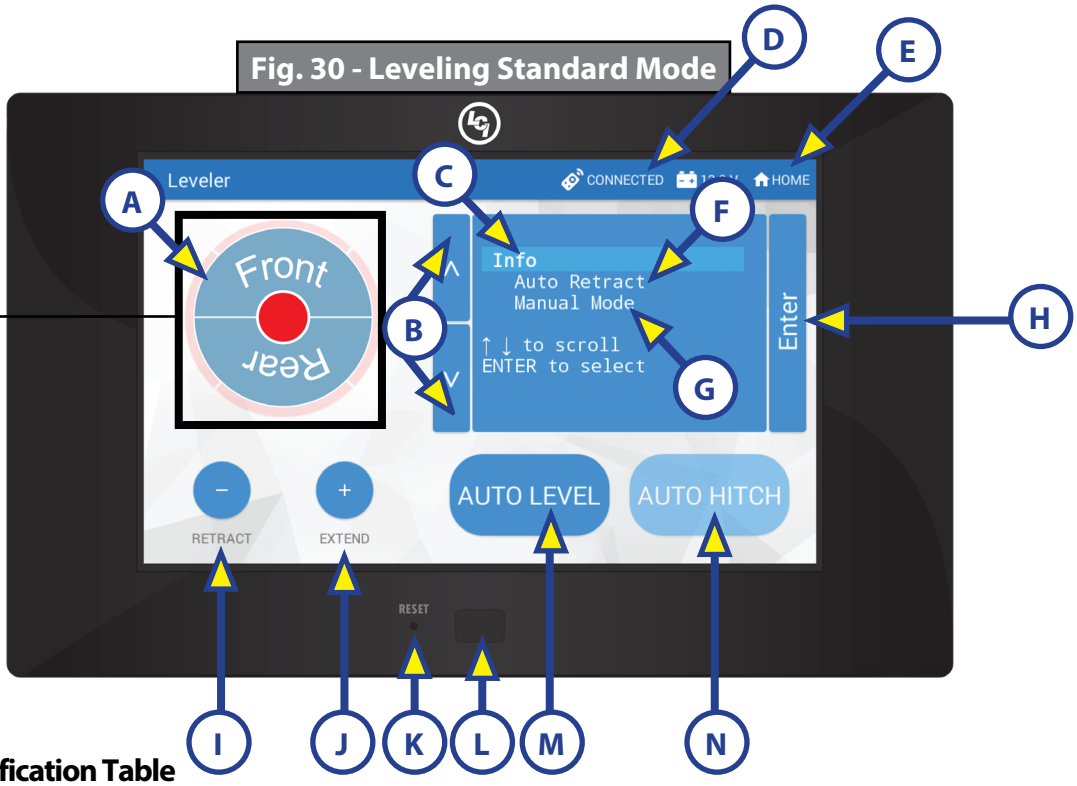


Figure 27 Device Feature Identification Table

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. 30), only the Power Tongue Jack can be operated and rear jacks can only be retracted. In Manual Mode (Fig. 32), 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	Connected Icon - Press 6 times 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, except Power Tongue Jack.
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.

⚠WARNING

Be sure to park the trailer on solid and level ground. Prior to operation, clear all jack landing locations of debris and obstructions. The locations should also be free of surface depressions and moisture. When parking the trailer on extremely soft surfaces, utilize load distribution pads under each jack.

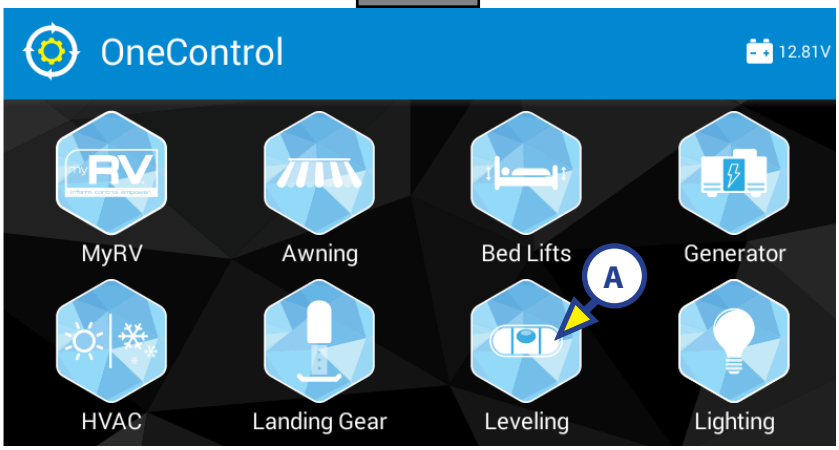
Operation - OneControl Touch Panel

⚠WARNING

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.

When the OneControl touch panel is turned on, a start screen will appear. Choose the Leveling icon (Fig. 31A) to start the leveling operations. Once the Leveling icon is selected, the leveling in Standard Mode (Fig. 30) will appear.

Fig. 31



Basic Jack Operation

Power Tongue Jack:

The Power Tongue Jack can be operated at any time using the RET/EXT (Retract/Extend) button (Fig. 31B) on the front of the tongue jack motor enclosure or by using the OneControl Touch Panel "Front" button while in standard mode (Fig. 30A).

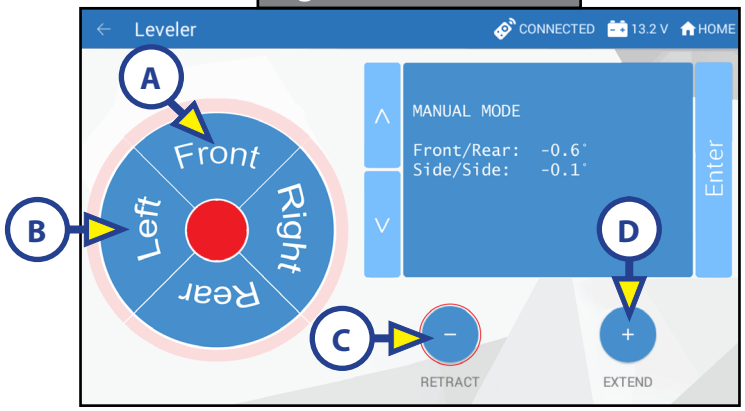
NOTE: The Power Tongue Jack is designed for vertical movement of the trailer only.

Basic Jack Operation In Manual Mode

To reach Manual Mode (Fig. 32) for leveling:

1. While in Standard Mode (Fig. 30), use the arrows (Fig. 30B) to scroll to Manual Mode (Fig. 30G). Press "Enter" (Fig. 30H).
2. Front and rear jacks can be operated in Manual Mode. The Power Tongue Jack cannot be operated in Manual Mode.

Fig. 32 Manual Mode



OneControl Touch Panel In Standard and Manual Modes

Standard Mode Features

1. Press "RETRACT" (Fig. 30I) or "EXTEND" (Fig. 30J) buttons and "Front" (Fig. 30A) to retract or extend the Power Tongue Jack.
2. Press the "AUTO LEVEL" (Fig. 30M) button to start the auto leveling sequence.
3. Press the "AUTO HITCH" (Fig. 30N) button to start the hitch recognition sequence when reconnecting to the tow vehicle.
4. Use the "Up" or "Down" arrow (Fig. 30B) buttons to cycle through the menu screen options:
   - **A. Info**: Scroll to "Info" (Fig. 30C) and press "Enter" (Fig. 30H) button to display system information, e.g., angle, jack stroke or software version.
   - **B. Auto Retract**: Scroll to "Auto Retract" (Fig. 30F) and press the "Enter" button to start the "Auto Retract" sequence, which will retract all jacks except for the Power Tongue Jack.
   - **C. Manual Mode:** Scroll to "Manual Mode" (Fig. 30G) and press the "Enter" button to start the Manual Level operation.
     - **I.** Jacks operate in pairs.
     - **II.** Use "RETRACT" or "EXTEND" buttons to operate front and rear jacks.

NOTE: No Power Tongue Jack operation will be available in Manual Mode.

Manual Mode Features

NOTE: 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.

1. Press "EXTEND" (Fig. 32D) or "RETRACT" (Fig. 32C) and "Front" (Fig. 32A) to operate front jacks.
2. Press "EXTEND" or "RETRACT" and "Rear" to operate rear jacks.
3. Press "EXTEND" or "RETRACT" and "Right" to operate right jacks (right front and right rear).
4. Press "EXTEND" or "RETRACT" and "Left" to operate left jacks (left front and left rear).

NOTE: To operate jacks individually, Press "EXTEND" or "RETRACT" then press the "Left" (Fig. 32B) or "Right" button while simultaneously pressing the "Front" (Fig. 32A) or "Rear" button, depending on the which jack needs to be operated.

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 will display "Relieving frame twist." The jacks will resume operating in pairs when the potential frame twist has been relieved.

Unhitching From Tow Vehicle

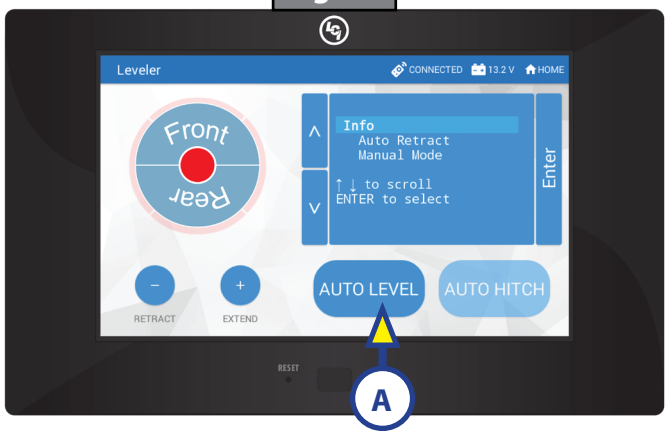
Fig. 33



1. Before unhitching the trailer, make sure trailer is parked on a level surface.
2. Be sure the ground surface under the Power Tongue Jack is firm and level.
3. Be 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 control that may be equipped between the tow vehicle and the trailer.
6. Unlatch the trailer coupler.
7. Press and hold the “EXT” button (Fig. 33A) on the Power Tongue Jack or press the "Front" button (Fig. 30A) on the 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

Fig. 34



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.

1. After unhitching from tow vehicle and pulling the vehicle a safe distance away, press "AUTO LEVEL" (Fig. 34A).

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

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

2. 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 Jacks 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-back 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 display shows complete.

NOTE: If the "AUTO LEVEL" sequence does not perform as described above, 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. 35A) to turn the touch panel "ON".
2. Press "AUTO HITCH" (Fig. 35C) 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. 35B) was most recently pressed.

3. Press the “On/Off” button (Fig. 35A) to turn system Off.
4. Back the tow vehicle into position to align the tow vehicle hitch and trailer coupler with each other.
5. Press and hold “RET” button (Fig. 36A) 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. 36A) 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.

Fig. 35

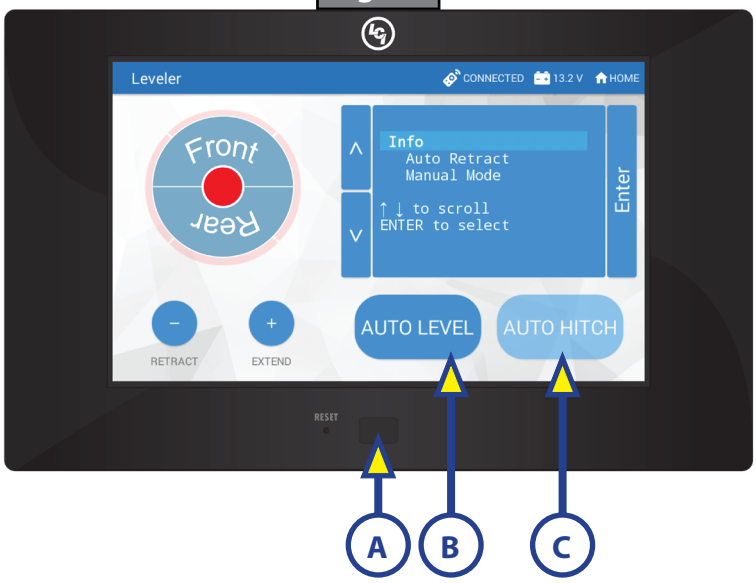


Fig. 36



Operation - Power Tongue Jack

⚠WARNING

Be sure to park the trailer on solid and level ground. Prior to operation, clear all jack landing locations of debris and obstructions. The locations should also be free of surface depressions and moisture. When parking the trailer on extremely soft surfaces, utilize load distribution pads under each jack.

NOTE: The "ON" and "OFF" switch (Fig. 38A) only controls the Power Tongue Jack's light. If tongue jack light is 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

NOTE: Prior to unhitching from the tow vehicle, ensure trailer is parked on a level surface and chock the tires of the trailer.

NOTE: Ensure the footpad of the Power Tongue Jack is pinned securely in place with the clevis pin and hairpin cotter pin (Fig. 37B).

1. Disconnect any wires, chains, or sway control that may be equipped between the tow vehicle and the trailer.
2. Unlatch the trailer coupler.
3. Push "EXT" (Fig. 38C) two times holding on the third time approximately 5 seconds, then release the switch and the Power Tongue jack will automatically extend to the ground.
4. Push "EXT" until the coupler clears the tow vehicle's hitch ball.
5. Disconnect the trailer wire connection at the tow vehicle, if not previously completed.
6. Move the tow vehicle away from the trailer.
7. Push "RET" (Fig. 38B) as needed to return the front of the trailer to level or use the AUTO LEVEL function to level the trailer per the instructions in this manual.

Reconnecting to Tow Vehicle

1. Chock the tires of the trailer.
2. Back the tow vehicle into position to align the tow vehicle hitch and trailer coupler with each other.
3. Press "EXT" (Fig. 38C) if needed to allow the coupler to clear the tow vehicle's hitch ball.
4. Press "RET" (Fig. 38B) to retract the Power Tongue Jack until the coupler properly mounts the tow vehicle's hitch ball and the leg.
5. Latch the tow vehicle hitch and connect any wires, chains or sway control that may be equipped between the tow vehicle and trailer.
6. 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.

NOTE: Be sure the leg of the Power Tongue Jack (Fig. 37A) is fully retracted prior to moving the tow vehicle.

Fig. 37

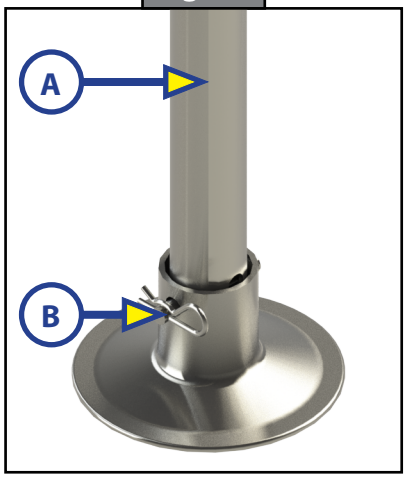
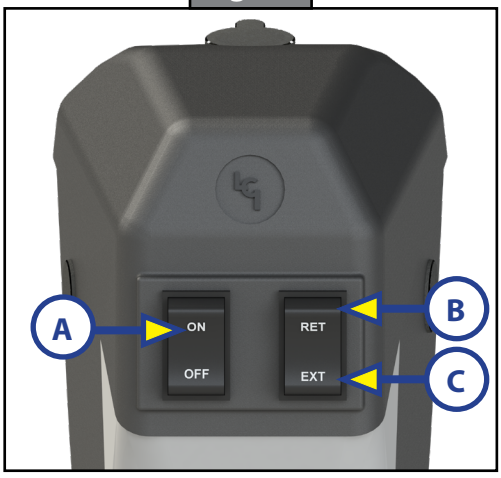
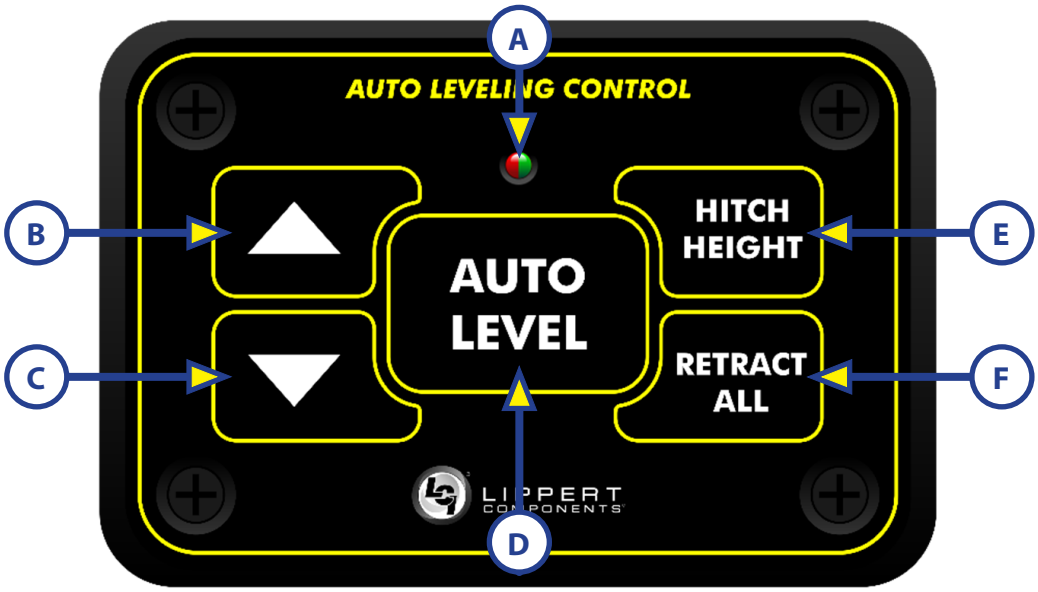


Fig. 38



Touch Pad Diagram - Auto Leveling Control Touch Pad

Fig. 39



Auto Leveling Control Touch Pad Feature Description Table

Callout	Description	
A	Red/Green LED - Indicates the status of the system.	
B	Up Arrow - Extends the Power Tongue Jack.	To turn on the touch panel, 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, except for Power Tongue Jack.	

Operation - Auto Leveling Control Touch Pad

⚠WARNING

Be sure to park the trailer on solid and level ground. Prior to operation, clear all jack landing locations of debris and obstructions. The locations should also be free of surface depressions and moisture. When parking the trailer on extremely soft surfaces, utilize load distribution pads under each jack.

Basic Tongue Jack Operation

1. To turn on the touch pad, press both "UP" and "DOWN" arrows (Fig. 39B and C) at the same time. The green indicator LED (Fig. 39A) will turn On.
2. Press the "UP" arrow (Fig. 39B) 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. 39C) to retract the Power Tongue Jack.

Unhitching From Tow Vehicle

NOTE: Prior to unhitching from the tow vehicle, ensure trailer is parked on a level surface and chock the tires of the trailer.

NOTE: Ensure the footpad of the Power Tongue Jack is pinned securely in-place with the clevis pin and hairpin cotter pin.

1. To turn on the touch pad, press both "UP" and "DOWN" arrows (Fig. 39B and Fig. 39C) at the same time. The green indicator LED (Fig. 39A) will turn "ON."

NOTE: The touch pad will remain "ON" as long as the user is pressing buttons. It will time out after approximately seven minutes without use.

2. Press the "UP" arrow (Fig. 39B) to extend the Power Tongue Jack and lift the front of trailer to take the weight of the trailer off of the hitch.
3. Uncouple the trailer and disconnect the electrical wire harness from the tow vehicle.
4. Pull tow vehicle away from the trailer and park at a safe distance.

Auto Level

1. Prior to auto leveling, ensure the trailer is unhitched from the tow vehicle and that the vehicle is parked at a safe distance away from the trailer.
2. Press both the "UP" and "DOWN" arrows (Fig. 39B and Fig. 39C) at the same time if the green indicator is Off.
3. Press "AUTO LEVEL" (Fig. 39D).

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: 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 Jacks 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-back and then side-to-side.
- **H.** The Auto Level sequence will ground all jacks to ensure all footpads 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. 39B and Fig. 39C) at the same time. The green LED indicator (Fig. 39A) will turn "ON".
2. Press "HITCH HEIGHT" (Fig. 39E).
   - **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.

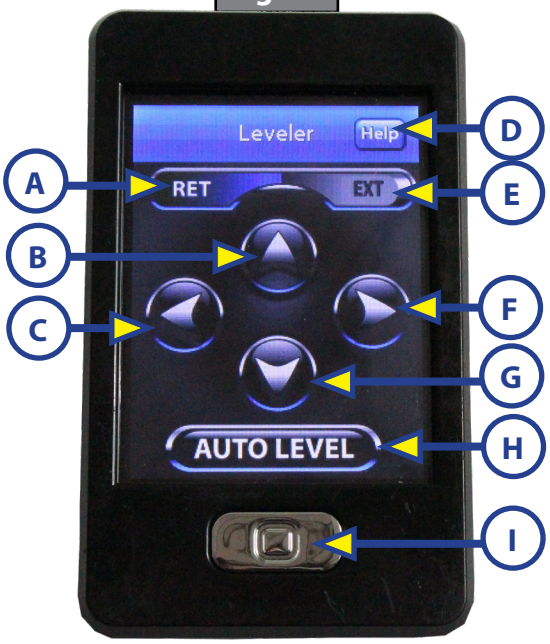
NOTE: If the front of the trailer was below level when the Auto Level process was initiated, the hitch recognition feature will retract the rear jacks, but will not retract the Power Tongue Jack to lower the trailer to the initial hitch height. This feature helps prevent injury and/or damage to anything 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. 39C) 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 control that may be equipped between the tow vehicle and trailer.
7. Press and hold the "DOWN" (Fig. 39C) arrow until the Power Tongue Jack is fully retracted.
8. Press "RETRACT ALL" (Fig. 39F) button. System will immediately retract all jacks.

Touch Panel Diagram - Linc™ Remote Control - Optional

Callout	Description
A	RET - Retracts front jacks and rear jacks.
B	Front Arrow - Operates front jacks.
C	Left Arrow - Operates left rear jacks.
D	Help - Provides contact information for LCI.
E	EXT - Extends front jacks 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.

Fig. 40



Operation - Linc Remote

Configuring the Linc Remote

NOTE: If the trailer does not have a LCI Multifunction wireless system installed, each of the listed functions (Fig. 46) (Steps 1-7) will read as "NONE."

⚠WARNING

Be sure to park the trailer on solid and level ground. Prior to operation, clear all jack landing locations of debris and obstructions. The locations should also be free of surface depressions and moisture. When parking the trailer on extremely soft surfaces, utilize load distribution pads under each jack.

1. Turn the remote on by pressing and releasing the large silver button at the bottom of the remote (Fig. 41A). If the remote has never been configured, it will display the "Config" button (Fig. 41B) immediately after it is turned on. To reconfigure after the initial programming, push the silver button 5 times (Fig. 41A).
2. Press the "Config" button on the touch screen to begin configuring the remote (Fig. 41B).
3. Using the arrow buttons at the bottom of the screen, navigate to the specific items the remote will control (Fig. 42).
4. When the name of the item appears in the middle of the screen, press the large "SELECT" button (Fig. 42A).
5. Assign an item or "None" to each of the function spaces available.
6. Press the select button at each screen. Without a LCI Multifunction Wireless system installed on the trailer, no other functions will be able to be programmed on the remote.

Fig. 41



Fig. 42



Fig. 43

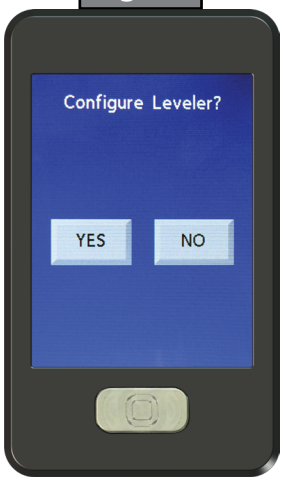


Fig. 44

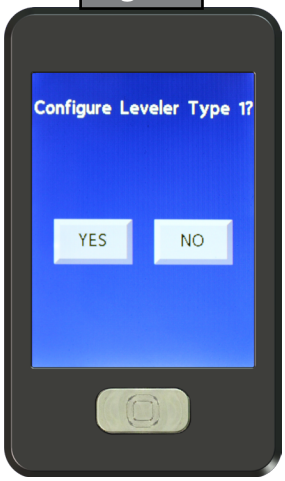
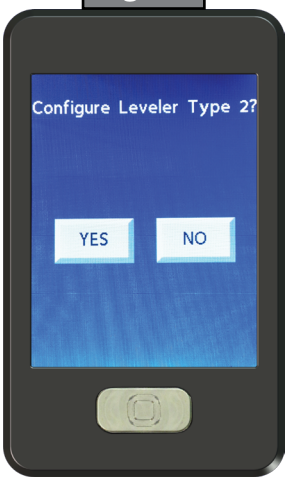


Fig. 45



7. If the 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. 43). If trailer is so equipped, and you want to have leveling available on your transmitter, select YES. If not, select NO (Fig. 43).
   - **B.** After all the functions have been assigned a "title," the next screen will ask: "Configure Leveler Type 1?" (Fig. 44) and then "Configure Leveler Type 2?" (Fig. 45) 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. 46). If the trailer does not have a LCI Multifunction Wireless system installed, the screen will show "NONE" for the listed functions (Steps 1-7), then "Leveler Type 1: Yes" and :Leveler Type 2: No." Press "OK" to save the configuration or "Cancel" to restart the process.

Fig. 46

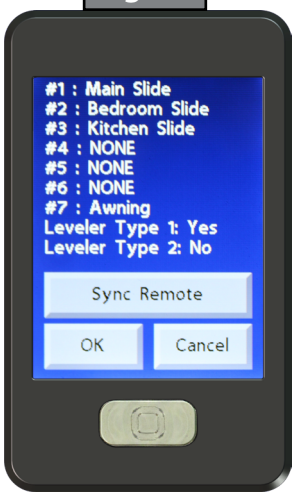


Fig. 47

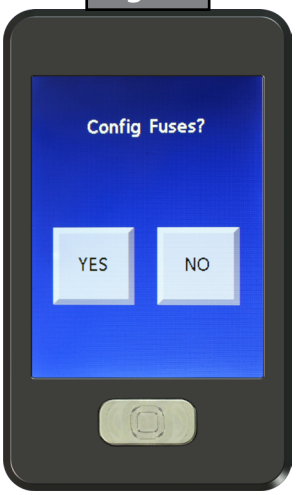
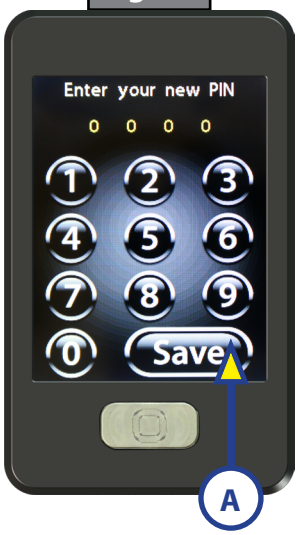


Fig. 48



Fig. 49



9. Once a configuration is saved, a "Config Fuses?" screen (Fig. 47) will appear. Press "NO" as any fuse configuring will need to be done by the manufacturer of the trailer.
10. Enter a PIN to be the security code for accessing the remote (Fig. 48).
11. Once a PIN is entered, the "Save" button (Fig. 49A) 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

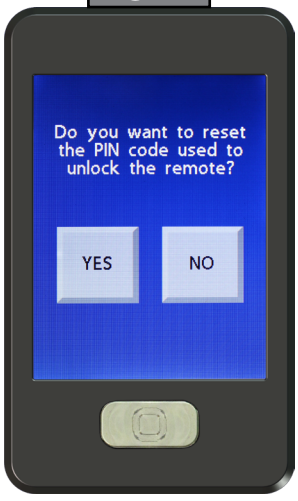
Once the remote has been configured it can be reconfigured in the event of a function change or when a new security PIN is required.

1. Turn the remote On by pressing and releasing the large silver button at the bottom of the remote (Fig. 50C).
2. Press the large silver button 5 times (Fig. 50C).

Fig. 50



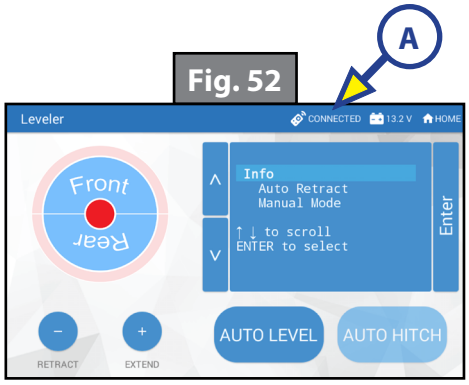
Fig. 51

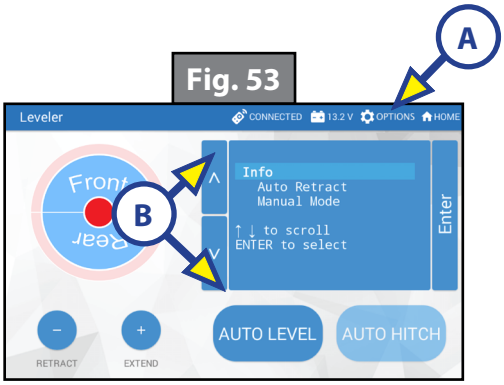


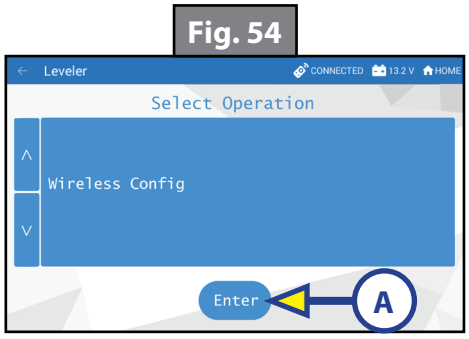
3. Two options come up for reconfiguration:
   - **A.** "Set PIN" (Fig. 50A) will allow the user to reset the PIN and enter a new one. Once the "Set PIN" option is selected, the user will be asked for verification that they want to reset the PIN (Fig. 51). Select "YES" and the PIN will be reset, follow Steps 10-12 of the "Configuring the Linc Remote" section. Select "NO" to keep the current PIN.
   - **B.** The "Config" (Fig. 50B) button allows the user to adjust the configuration. To do so, select "Config" and follow steps 1-9 of the "Configuring the Remote" section.

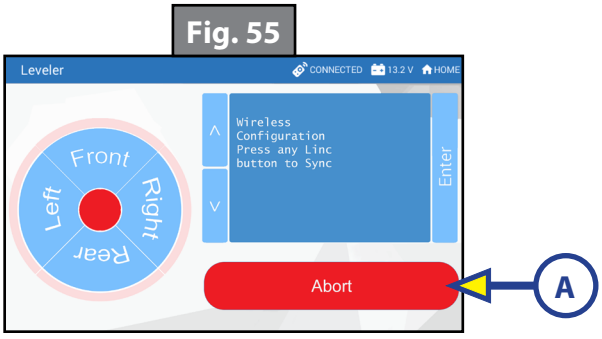
Configuring Linc Remote to Sync to The OneControl Touch Panel

1. Turn on the Linc Remote control (Fig. 40I) and enter a PIN.
2. Choose "Leveler" from the menu screen (Fig. 40).
3. Turn on the OneControl Touch Panel (Fig. 27L).
4. On the OneControl Touch Panel, press the "CONNECTED" icon at the top of the screen (Fig. 52A) quickly 6 times. Wait a few seconds until the gear icon with "OPTIONS" appears (Fig. 53A).
5. Press the gear icon with "OPTIONS" (Fig. 53A).
6. Use the "Up" and "Down" arrows (Fig. 53B) to scroll to "Wireless Config" (Fig. 54).
7. Press "Enter" (Fig. 54A). The screen will display "Wireless Configuration, Press any Linc button to Sync" (Fig. 55).
8. Press any button in "Leveler" mode on the Linc Remote control (Fig. 40).
9. Pressing "Abort" on the OneControl Touch Panel (Fig. 55A) will cancel the configuration sequence.









Basic Jack Operation

1. Press "RET" (Fig. 40A) or "EXT" (Fig. 40E) and "Front" arrow (Fig. 40B) to retract or extend the front jacks (left front, right front).
2. Press "RET" or "EXT" and "Rear" arrow (Fig. 40G) to retract or extend the rear jacks (left rear, right rear).
3. Press "RET" or "EXT" and "Right" arrow (Fig. 40F) to retract or extend the right jacks (right front, right rear).
4. Press "RET" or "EXT" and "Left" arrow (Fig. 40C) to retract or extend the left jacks (left front, left rear).
5. Press "AUTO LEVEL" (Fig. 40H) to start the auto leveling sequence.

Unhitching From A Tow Vehicle

NOTE: Prior to unhitching the trailer from the tow vehicle, ensure trailer is parked on a level surface and chock the tires of the trailer.

NOTE: Ensure the footpad of the Power Tongue Jack is pinned securely in place with the clevis pin and hairpin cotter pin.

1. Disconnect any wires, chains, or sway control that may be equipped between the tow vehicle and the trailer.
2. Unlatch the trailer coupler.
3. Turn On the Linc Remote (Fig. 40I), then enter a PIN code to turn system On.
4. Press the touch panel "Leveler" button (Fig. 40).
5. Press "EXT" (Fig. 40E) and "Front" arrow (Fig. 40B) to extend front jacks and lift front of trailer to take the weight of the trailer off of the hitch.
6. Uncouple the trailer and disconnect the electrical wire harness from the tow vehicle.
7. Pull tow vehicle away from 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, ensure 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. 40I) on the Linc Remote if the device is not on.
3. Enter a PIN.
4. Choose the "Leveler" option.
5. Press “AUTO LEVEL” (Fig. 40H).

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 on the Linc Remote during an AUTO LEVEL sequence will abort the auto leveling cycle. To restart the AUTO LEVEL process, refer to the OneControl Touch Panel (Fig. 30).

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-back, then side-to-side.
   - **H.** The AUTO LEVEL sequence will ground all jacks to ensure all footpads are on the ground and auto leveling is complete.
   - **I.** The Auto Leveling 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. 30). 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

What Is Happening?	Why?
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 screen for the specific error code, then consult the Troubleshooting section to clear the error.

Error Display In LCD Screen - OneControl Touch Panel

NOTE: Errors can only be cleared via the OneControl Touch Panel. The only exception is when the Auto Leveling Control Touch Pad (Fig. 39) 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's Happening?	What Should I Do?
"EXCESS ANGLE"	Unsecured sensor. Uneven or sloped site.	Check and secure sensor placement. 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.
"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.
"LOW VOLTAGE"	Bad connection or wiring. Discharged or bad battery.	Check wiring - repair or replace. Test battery voltage under load - charge or replace.
"OUT OF STROKE"	Unsecured controller. Uneven or sloped site.	Check and secure controller placement. 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. Voltage drop.	Check and secure controller placement. 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 5K 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 - OneControl Touch Panel

To clear the error codes listed below:

1. Correct or otherwise repair the issue. See following Jack Error Code table.

NOTE: Jacks **MUST** be "homed" in order to clear the special jack error codes. Each jack must be able to retract a minimum of 6 inches in order to “home” the jacks.

NOTE: The Power Tongue Jack does not need to be “homed.” The Power Tongue Jack cannot be operated from the OneControl Touch Panel while clearing the special Jack Error Codes. The Power Tongue Jack can be operated using the “RET/EXT” (Fig. 38) switch on the tongue jack during this procedure.

2. Extend all jacks to reach their 6-inch minimum retracted position.
   - **A.** If required, press “EXT” and “Front” to extend the front jacks. Refer to “Operation - OneControl Touch Panel” section.
   - **B.** If required, press “EXT” and “Rear” to extend the rear jacks. Refer to “Operation - OneControl Touch Panel” section.
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.

Jack Error Code Table

Touch Panel Message	What's Happening?	What Should I Do?
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 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.

⚠ 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.

NOTE: Use of a 12-18 volt cordless screw gun or pneumatic screw gun is acceptable to manually override the jacks. Do not use an impact screw gun to perform any of the override procedures, as this may damage the motor. If manual override is necessary there are two options for each style of jack.

NOTE: If the travel trailer is equipped with 4 C-Jacks the override procedure is the same for the front and rear.

2K or 3K C-Jack Motor Override

Tools needed: ¼" drive ratchet and extension (no socket) for 2K C-Jack or ⅜" drive ratchet and extension (no socket) for 3K C-Jack.

1. Find the port on the top of the jack motor (Fig. 56A).
2. Remove the rubber plug (Fig. 57A).
3. Insert the ¼" for 2K C-Jack or ⅜" for 3K C-Jack drive ratchet and extension into the port.
4. Turn the override until the jack extends or retracts to desired position.
5. Remove the drive ratchet with extension.
6. Replace the rubber plug (Fig. 57A)

2K or 3K C-Jack Manual Override Nut

Tools needed: ¾" socket and ratchet

1. Locate the manual override nut (Fig. 56B).
2. Place ¾" socket and ratchet over the manual override nut (Fig. 58A) and turn the override nut until the jack extends or retracts to desired position.
3. Remove the socket and ratchet.

Fig. 56

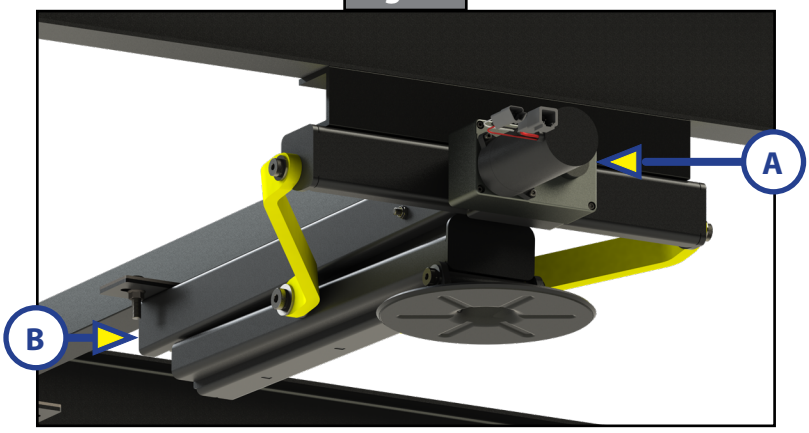


Fig. 57

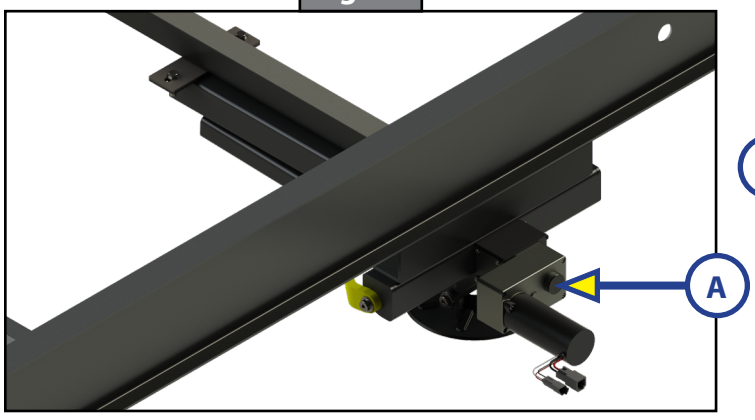
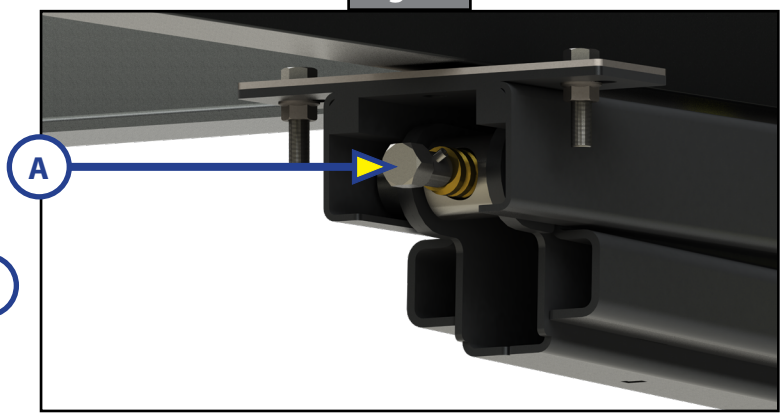


Fig. 58



5K Jack - Top of Jack Motor Override:
Tools needed: 3⁄8" drive ratchet and extension (no socket)

1. Find the port on the top of the jack motor (Fig. 59A).
2. Remove the rubber plug (Fig. 60A).
3. Insert the 3⁄8" drive ratchet into the port (Fig. 61).
4. Turn the override until the jack extends or retracts to desired position.
5. Remove the drive ratchet from the port (Fig. 61).
6. Replace the rubber plug (Fig. 60A).

5K Jack - Bottom of Jack Motor Override:
Tools needed: 3⁄8" drive ratchet and extension, 5⁄16" socket

1. Find the port on the bottom of the jack motor (Fig. 59B).
2. Remove the rubber plug (Fig. 62A).
3. Insert the 5⁄16" socket into the port and onto the nut (Fig. 63A).
4. Turn the override until the jack extends or retracts to desired position.
5. Remove the drive ratchet from the port.
6. Replace the rubber plug (Fig. 60A).

Fig. 59

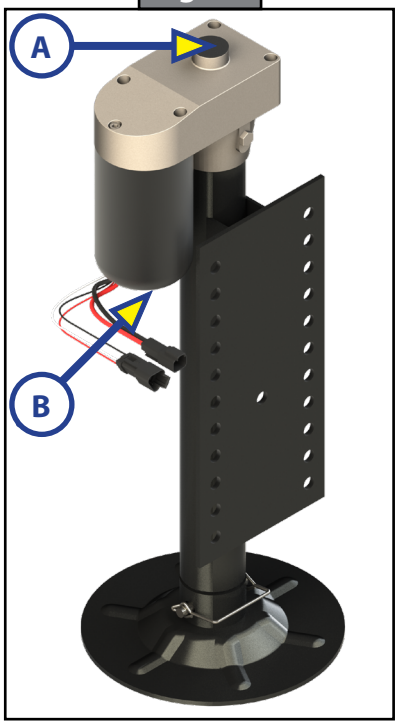


Fig. 60

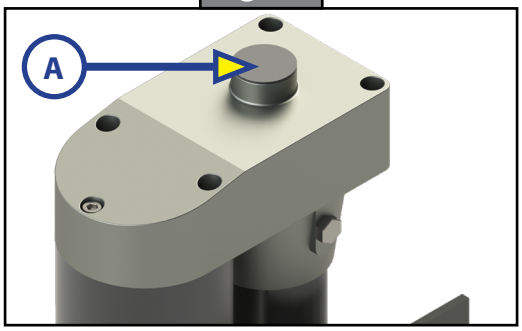


Fig. 61

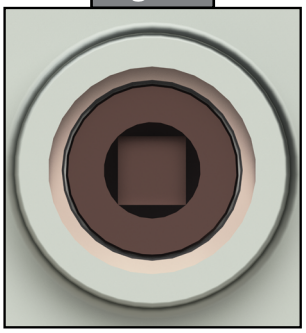


Fig. 62

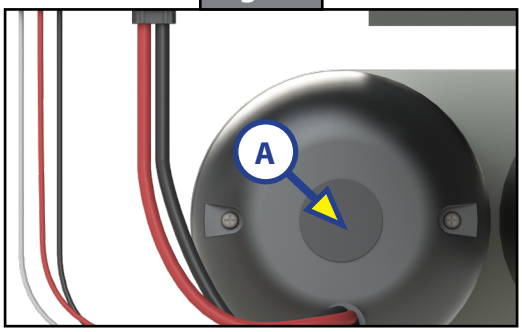
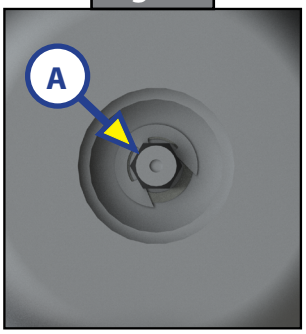


Fig. 63



Power Tongue Jack Manual Override

1. Chock the tires of the trailer.
2. Be sure the footpad of the Power Tongue Jack is pinned securely in place with the clevis pin and hairpin cotter pin (Fig. 64B).
3. Open the rubber plug (Fig. 65A) on top of the Power Tongue Jack's gearbox to expose the override nut.
4. Insert the manual crank handle (Fig. 66).
5. Turn the override until the jack extends or retracts to desired position.
6. Remove the crank handle (Fig. 66).
7. Replace the rubber plug (Fig. 65A).

NOTE: Be sure the leg (Fig. 64A) of the Power Tongue Jack is fully retracted prior to moving the tow vehicle.

Fig. 64

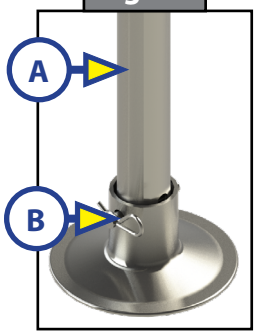


Fig. 65

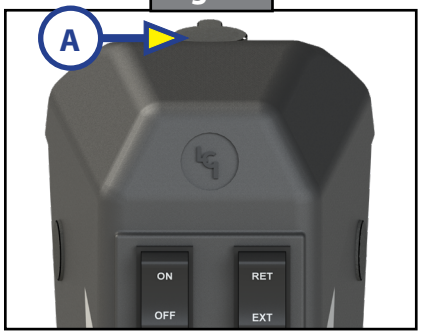
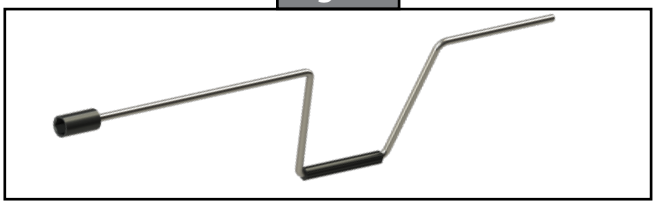


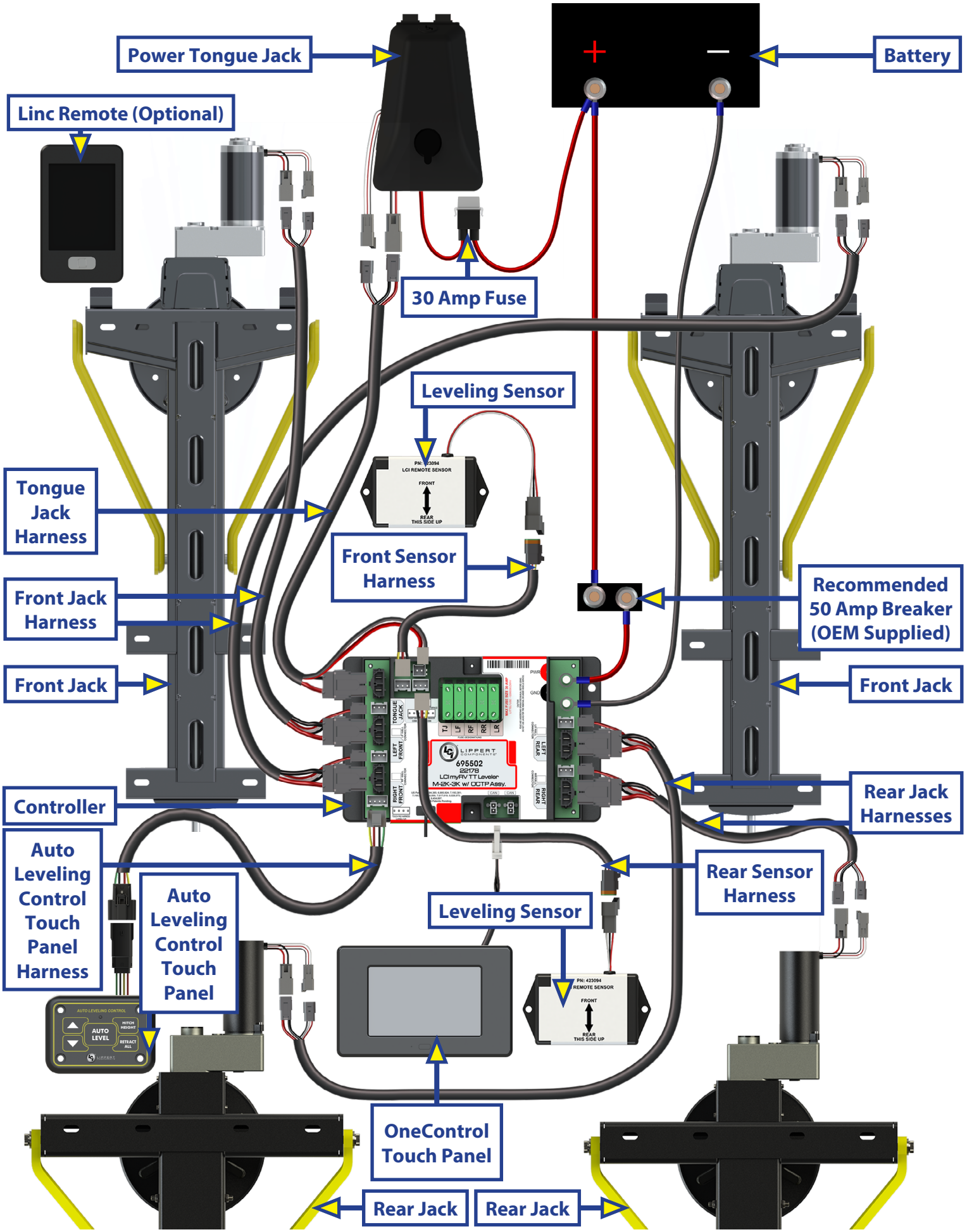
Fig. 66



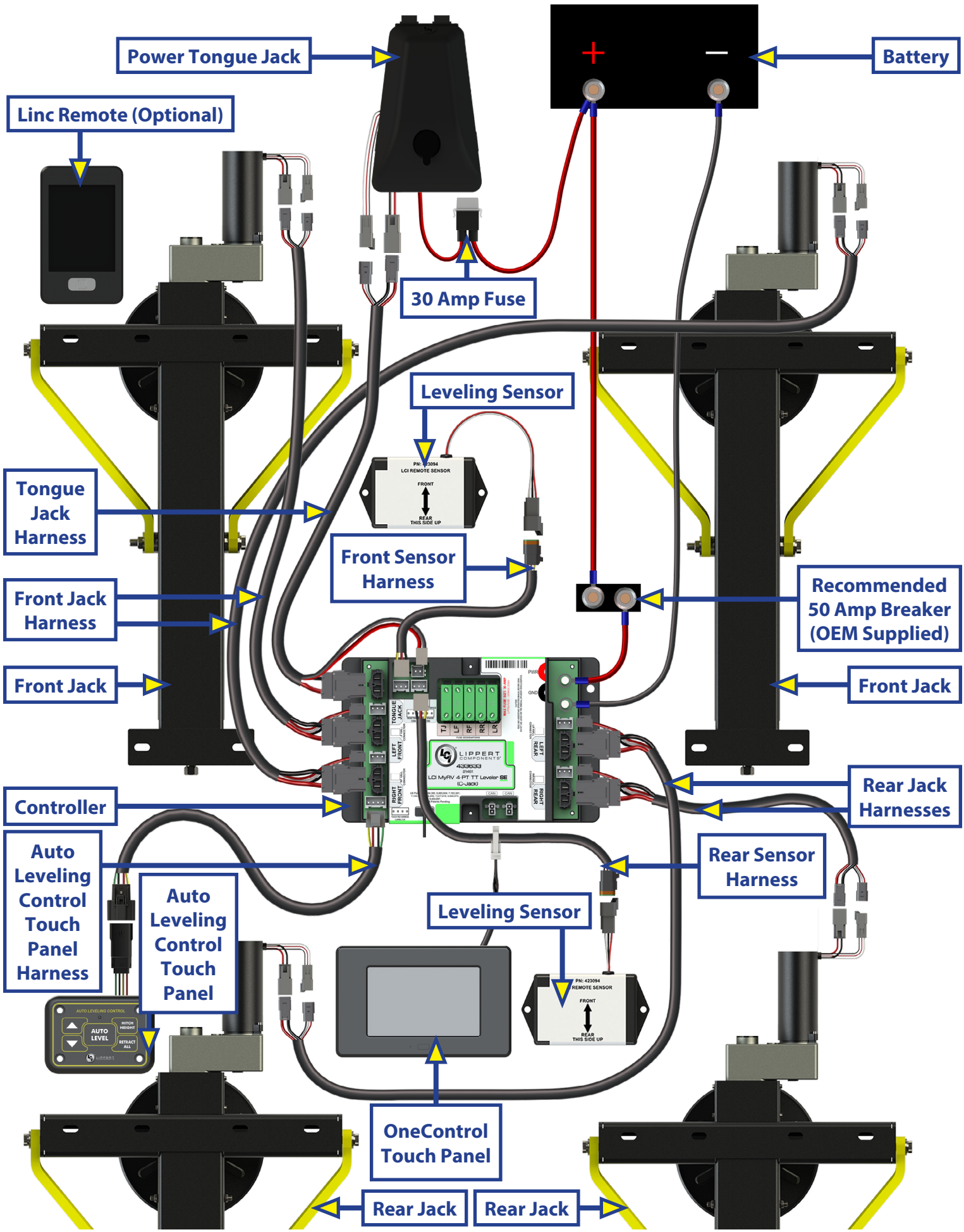
Preventive Maintenance

1. For optimum performance, the system requires full battery current and voltage. The battery must be maintained at full capacity.
2. Check the terminals and other connections at the battery, the controller, and the jacks for corrosion, and loose or damaged connections.
3. Remove dirt and road debris from jacks as needed.
4. If jacks are extended for long periods of time, LCI recommends spraying exposed leveling jack rods with a light coating of silicone lubricant every three months for protection. If the trailer is located in a salty environment, LCI recommends spraying the rods with a light coating of silicone lubricant every 4 to 6 weeks.

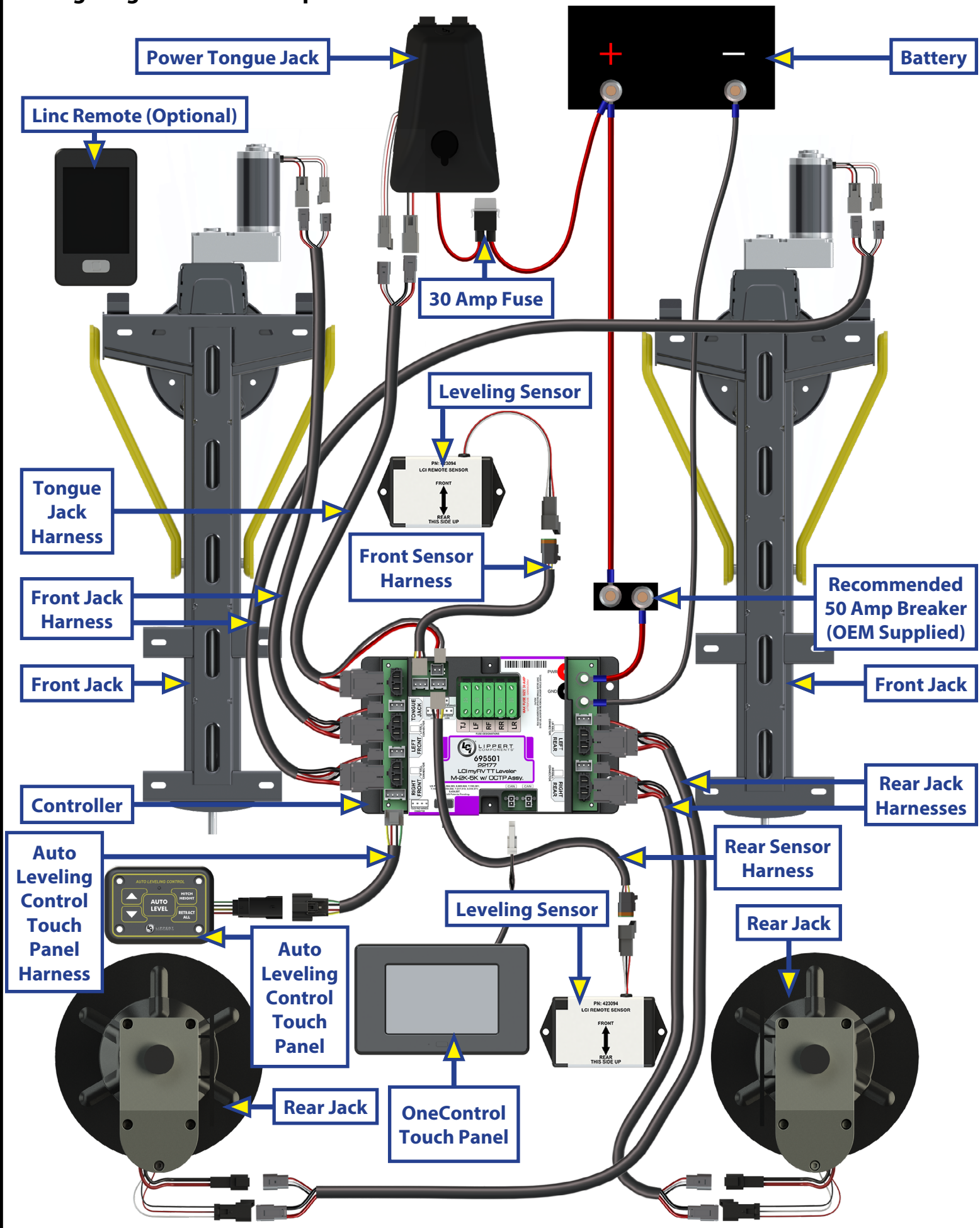
Wiring Diagram - 2K/3K Red Controller



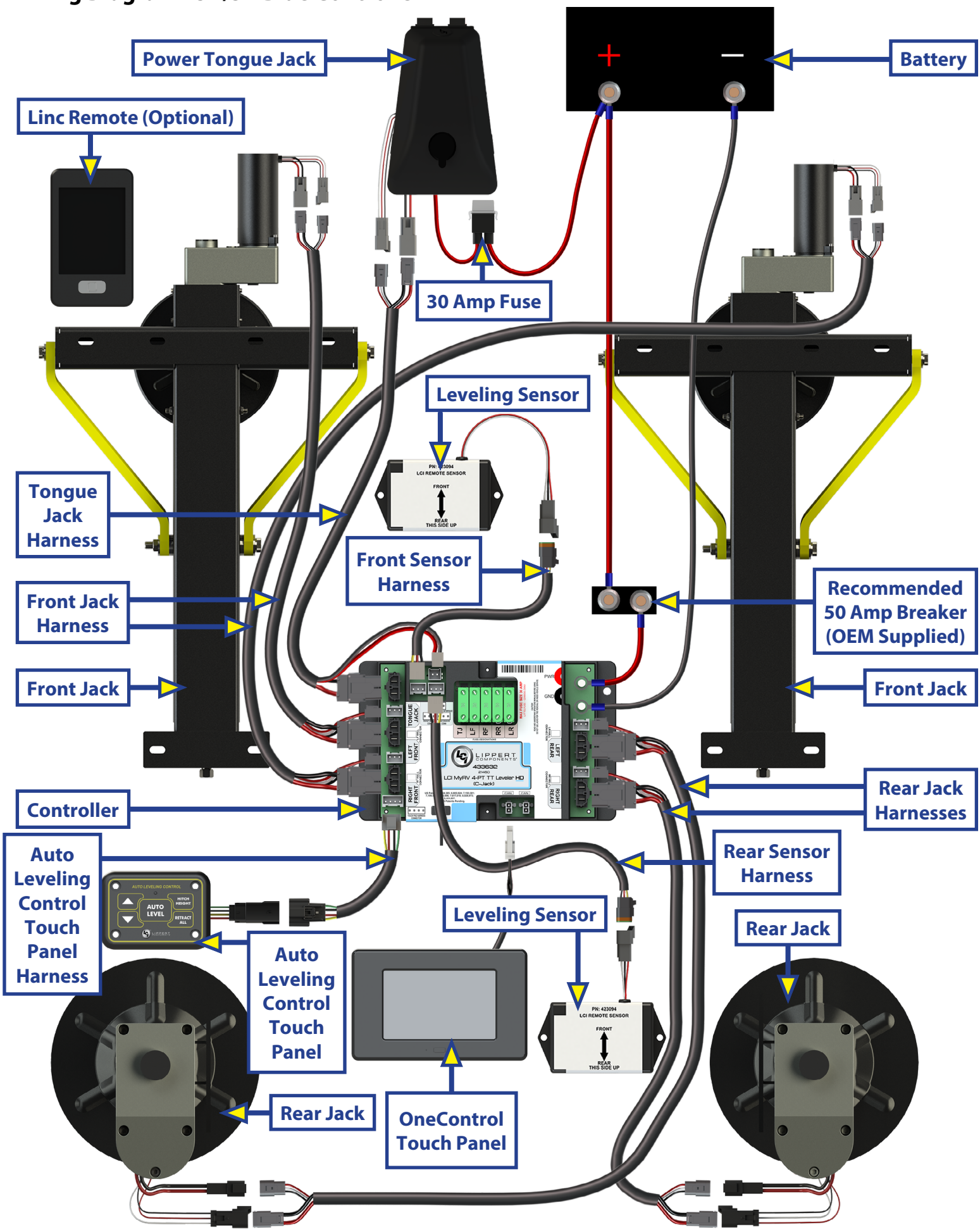
Wiring Diagram - 3K/3K Green Controller



Wiring Diagram - 2K/5K Purple Controller



Wiring Diagram - 3K/5K Blue Controller





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