



**LEVEL UP[®] LCD
TRAVEL TRAILER
OWNER'S MANUAL**

**LUPPERT
COMPONENTS[®]**

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Introduction

The manual is for travel trailer applications only.

Level Up® is an automatic leveling system. This hydraulic system is equipped with 8K aluminum leveling jacks. The jacks in the Level Up system work in pairs. A 12V DC electric motor drives a hydraulic pump that moves fluid through a system of hoses, fittings and jacks to level and stabilize the trailer. Mechanical portions of the system are replaceable. Contact Lippert Components, Inc. to obtain replacement parts.

Additional information about this product can be obtained from lci1.com/support or by downloading the free myLCI app. The app is available on iTunes® for iPhone® and iPad® and also on Google Play™ for Android™ users.

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WARNING

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

WARNING

Make sure the trailer is properly supported before performing any maintenance or repair work. Follow the trailer manufacturer's recommendations for lifting and supporting the unit. Failure to do so may result in death or serious injury.

WARNING

Lippert Components Inc. recommends that a trained professional be employed to change the tires or perform other service on the trailer. Attempts to change the tires or perform other service while trailer is supported solely by the LCI Level Up automatic leveling system could result in death, serious personal injury or severe product or property damage.

CAUTION

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

Prior to Operation

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

1. Make sure to park the trailer on solid, level ground.
2. Make sure all jack landing locations are cleared of debris and obstructions and also free of depressions.
3. When parking the trailer on extremely soft surfaces, utilize load distribution pads under each jack.
4. Keep people and pets clear of the trailer when operating leveling system.
5. Make sure to keep hands and other body parts clear of fluid leaks. Oil leaks in the leveling system may be under high pressure and can cause serious skin-penetrating injuries.
6. Make sure the battery of the trailer is fully charged or the trailer is plugged into shore power prior to attempting to operate the system.

NOTE: Level Up requires a minimum of 12V DC from the battery for proper operation.

Operation - Level Up LCD

Unhitching Instructions

NOTE: Prior to unhitching from the tow vehicle, make sure the trailer is parked on a level surface and the tires are chocked.

1. Press the POWER button (ON/OFF) (Fig. 1K) to turn system on. The LCD screen (Fig. 1E) will light up.
2. Press UP (Fig. 1A) or DOWN arrow (Fig. 1B) to scroll through selections until MANUAL MODE is displayed (Fig. 2).
3. Press ENTER button (Fig. 1C).
4. Press FRONT button (Fig. 1G) to extend front jacks to the ground until the trailer is unhitched from the tow vehicle.

NOTE: The Power Tongue Jack should only be used when storing the trailer.

Auto Level

For the hitch recognition feature to function, the auto-level sequence **MUST** be started with the front of the trailer above level. The Power Tongue Jack **MUST** be retracted prior to starting auto-level sequence. There will be an LCD alert displayed if the Power Tongue Jack is not retracted (Fig. 3).

After unhitching from the tow vehicle, press Auto Level (Fig. 1F). Auto leveling will execute as follows:

NOTE: Pressing any button during an auto-level sequence will abort the auto-leveling cycle.

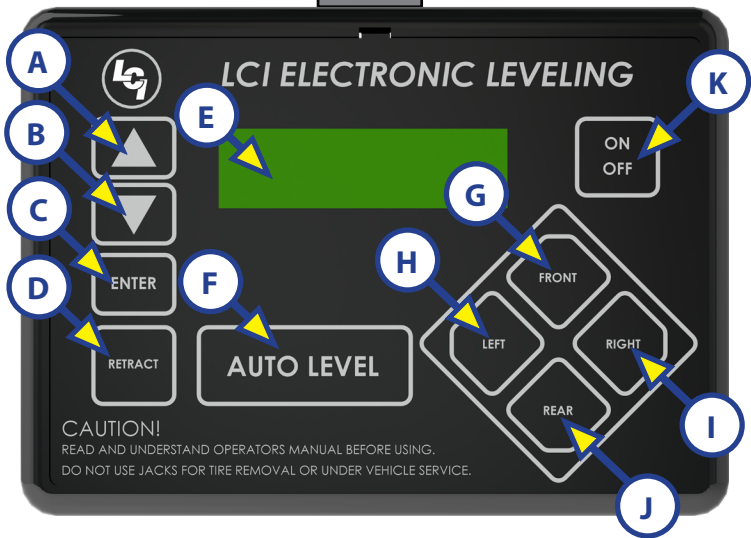
1. Front jacks retract, lowering the front of the trailer below level, stopping, then lifting the front end to level the trailer front to back.
2. The rear left side leveling jack extends and raises the roadside of the trailer.
3. The rear right side leveling jack extends and raises the curbside of the trailer, beginning side-to-side leveling.
4. The front jacks extend to complete the leveling cycle.

NOTE: Additional left-to-right or front-to-back leveling may occur if the controller deems necessary.

NOTE: If the auto-level sequence does not happen as stated above, determine if there is proper manual function in all zones.

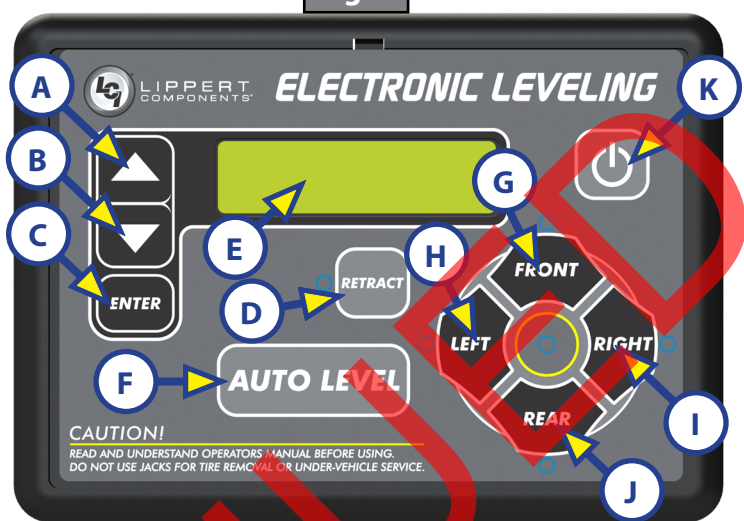
Touchpad Diagram

Fig. 1



PN 234802 - Black

Fig. 1



PN 421484 - Gray

LCD Touchpad Features	
Callout	Description
A	UP Arrow - Scrolls up through the menu on LCD.
B	DOWN Arrow - Scrolls down through the menu on LCD.
C	ENTER - Activates modes and procedures indicated on LCD.
D	RETRACT - Places leveling system into retract mode while in manual mode only.
E	LCD Display - Displays procedures and results.
F	AUTO LEVEL - Places leveling system into auto level mode.
G	FRONT Jack Button - Activates both front jacks.
H	LEFT Jack Button - Activates left leveling jack(s) in manual mode.
I	RIGHT Jack Button - Activates right leveling jack(s) in manual mode.
J	REAR Jack Button - Activates rear leveling jacks in manual mode.
K	POWER Button (ON/OFF) - Turns leveling system on and off.

Fig. 2

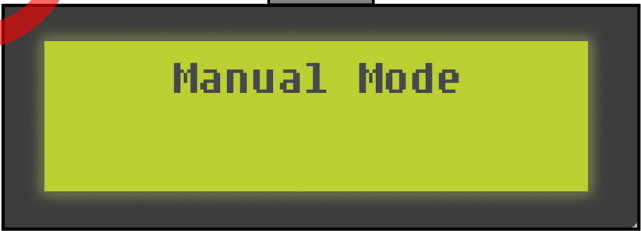


Fig. 3



Hitch Recognition

1. Turn on touchpad.
2. Press the LEFT and RIGHT jack buttons simultaneously (Fig. 1H and 1I).
3. The front of the trailer will raise to the height where the auto-level sequence was started.

NOTE: If the auto-level sequence was started with the front of the trailer in a below-level condition, the hitch recognition will not function and the LCD will display Feature Disabled. For the hitch recognition feature to function, the auto-level sequence **MUST** be started with the front of the trailer above level.

4. Connect tow vehicle and make sure travel trailer and hitch are connected and locked.
5. Press the UP arrow (Fig. 1A) until AUTO RETRACT appears in the LCD screen.
6. Press the ENTER button (Fig. 1C). The system will immediately retract all jacks.

Manual Operation

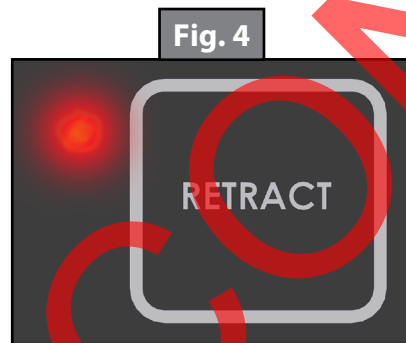
1. Front jacks

NOTE: The front jacks will operate manually any time system is on except in AUTO MODE.

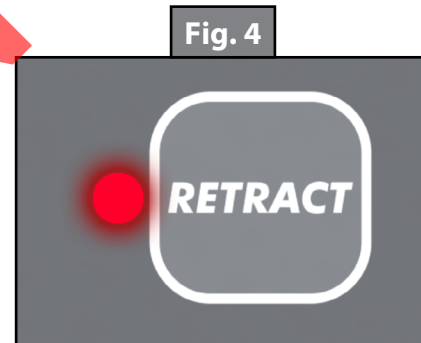
- A. Press the POWER button (ON/OFF) (Fig. 1K) to turn system on.
- B. Press the UP arrow (Fig. 1A) once or until screen reads MANUAL MODE (Fig. 2).
- C. Press the ENTER button (Fig. 1C) once while screen reads MANUAL MODE (Fig. 2).
- D. Press the FRONT jack button (Fig. 1G) to extend front jacks.
- E. Press the RETRACT button (Fig. 1D) and the LED (Fig. 4) comes on.
- F. Press the FRONT button (Fig. 1G) to retract front jacks.

NOTE: If the LED indicator light (Fig. 4) is on, jacks will retract. If the LED indicator light is off, jacks will extend.

- G. Press the POWER button (ON/OFF) (Fig. 1K) to turn system off.
- H. After three minutes of inactivity, the system will automatically turn off.



PN 234802 - Black



PN 421484 - Gray

2. Level Up leveling jacks - EXTEND

- A. Press the POWER button (ON/OFF) (Fig. 1K) to turn system on.
- B. Press the UP (Fig. 1A) or DOWN arrows (Fig. 1B) to scroll through selections until MANUAL MODE is displayed.
- C. Press the ENTER button while MANUAL MODE is displayed (Fig. 2).

NOTE: By pressing the RIGHT jack button, the curbside Level Up jacks operate. By pressing the LEFT jack button, the roadside Level Up jacks operate. Follow similar procedures for front and rear jacks.

NOTE: To extend, the RETRACT button's LED light (Fig. 4) should be off.

3. Level Up leveling jacks - RETRACT

- A. Press the RETRACT button and the LED indicator light (Fig. 4) will come on.
- B. Press the REAR jack button to retract all Level Up jacks.

NOTE: The side-to-side movement in manual mode is limited to five degrees of tilt.

Zero Point Calibration

The Zero Point is the programmed point that the trailer will return to each time the auto-level feature is used. The Zero Point must be programmed prior to using the auto-level feature to ensure the proper operation of the system.

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

1. Manually run the jacks to level the trailer.
 - A. Manual leveling is best achieved by placing a level in the center of the trailer and leveling it both front to back and then side to side.
 - B. See Manual Operation section for instructions on how to manually operate the system.
2. After the trailer has been leveled, turn off the touchpad.
3. With the touchpad off, press and release the FRONT jack button (Fig. 1G) 10 times, then press and release the REAR jack button (Fig. 1J) 10 times.
4. The touchpad will flash and beep and the LCD display will read ZERO POINT CALIBRATION ENTER to set, Power to Exit (Fig. 5).
5. To set the current position as the zero point, press the ENTER button (Fig. 1C).
 - A. The LCD display will read Zero point stability check (Fig. 6).
 - B. The LCD display will read Zero point set successfully once process has been completed (Fig. 7).
 - C. The system will set this point as its level state and the touchpad will turn off.

Fig. 5

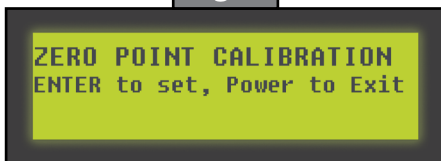


Fig. 6

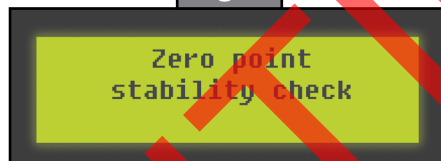
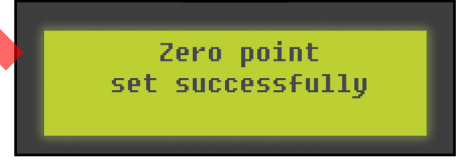


Fig. 7



Maintenance

1. Each month, check that the fluid level is within 1/4" of the fill spout lip while leveling jacks and slide-outs are fully retracted.

NOTE: Always fill the reservoir with the leveling jacks and slide-outs in the fully retracted position. Filling the reservoir when leveling jacks and slide-outs are extended will then cause the reservoir to overflow into its compartment when jacks and slide-outs are retracted.

2. Maintain battery at full capacity.
3. Inspect and clean all power unit electrical connections prior to the first use of the trailer at the start of the traveling season and prior to storing the trailer. If corrosion is evident, clean all corrosion with a wire brush and apply dielectric grease to the connections.
4. Remove dirt and road debris from leveling jacks as needed.
5. If leveling jacks are down for extended periods, LCI recommends spraying exposed jack rods with a silicone lubricant every three months for protection. If the trailer is located in a salty air environment, spray the rods every four to six weeks.

Fluid Recommendation

The Lippert Electronic Leveling System is pre-filled, primed and ready to operate direct from the manufacturer. Type "A" Automatic Transmission Fluid (ATF) is utilized and will work. ATF with Dexron III® or Mercon 5® or a blend of both is recommended by Lippert Components, Inc.

In colder temperatures (less than 10° F) the jacks may extend and retract slowly due to the fluid's molecular nature. For cold weather operation, fluid specially formulated for low temperatures may be desirable. For a list of approved fluid specifications, see [TI-188](#). Or go to <https://www.lci1.com/towable-br-level-up/support-towable-level-up-br-touch-pad/>, click on the Technical Information Sheets tab, then select TI - 188: Hydraulic Operation Fluid Recommendation from the listed documents.

Troubleshooting

Error Display In LCD Screen

NOTE: To clear an Error Code, press the ENTER button (Fig. 1C). If the error remains, the Error Code will appear again.

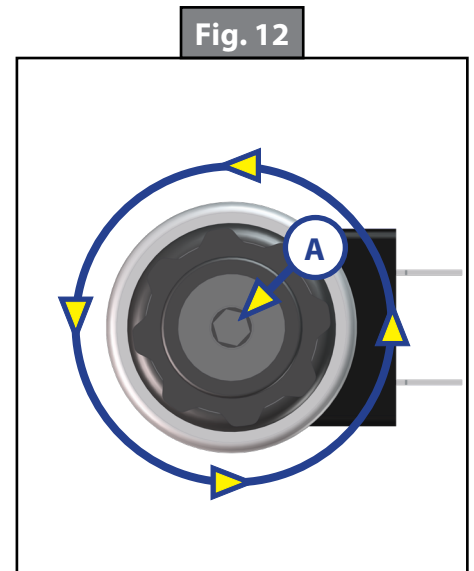
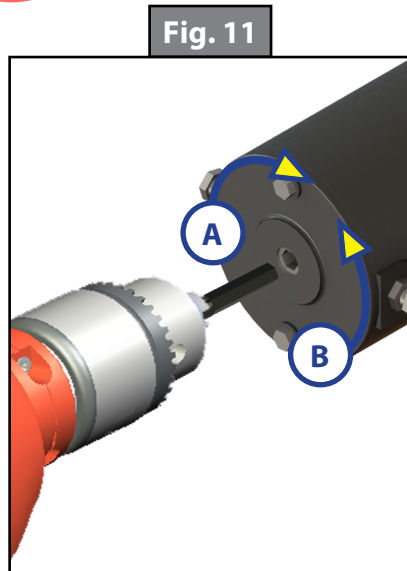
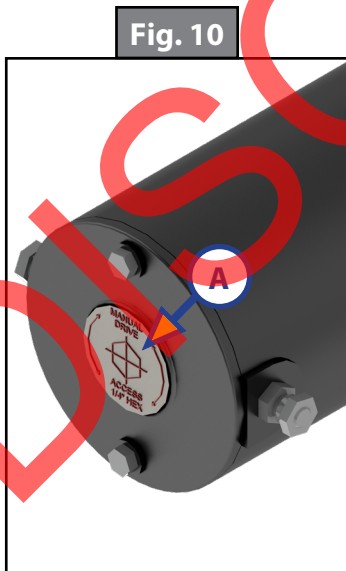
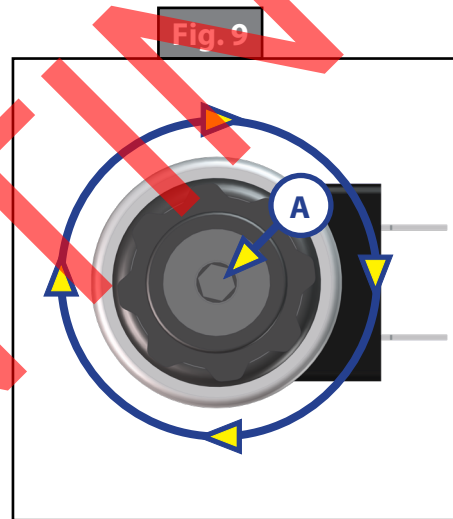
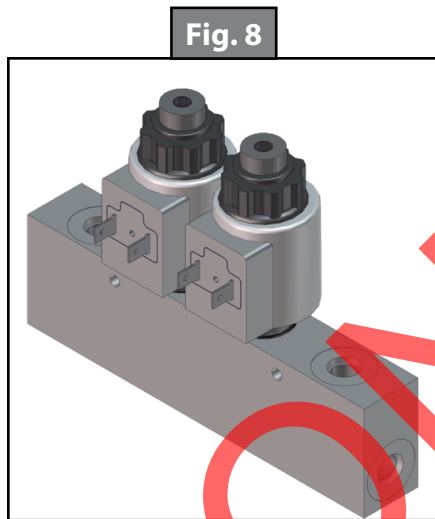
Error Codes		
LCD Message	What's Happening?	What Should Be Done?
EXCESS ANGLE	Controller not properly secured.	Check and secure controller placement.
	Excessive angle reached during auto operation.	Relocate the trailer.
EXCESSIVE ANGLE	Controller not properly secured.	Check and secure controller placement.
	Excessive angle reached during manual operation.	Relocate the trailer.
FEATURE DISABLED	Front of trailer below level when starting Auto Level process (only when trying to initiate hitch recognition).	Push the FRONT button to raise the trailer to hitch height and connect to tow vehicle.
	Touchpad power not cycled between consecutive leveling operations.	Turn touchpad off and then back on to reset the system.
	Zero point not set.	Set zero point.
LOW VOLTAGE	Battery voltage dropped below 9.5V.	Check wiring - repair or replace.
		Test battery voltage under load - charge or replace.
OUT OF STROKE	Jack has reached maximum stroke length and is unable to lift.	Check disposition of jacks and/or relocate the trailer.
EXTERNAL SENSOR	Bad connection or wiring from the controller to the rear sensor.	Replace or repair connection to rear remote sensor.
JACK TIME OUT	Time limit exceeded for the requested auto operation.	Check disposition of jacks.
AUTO LEVEL FAIL	Unable to auto level due to uneven ground.	Check disposition of jacks and/or relocate the trailer.
	Unable to auto level due to zero point being set incorrectly.	Reset zero point.
BAD CALIBRATION	Sensor calibration values are out of range.	Replace controller.
INTERNAL SENSOR	Internal sensor problem.	Replace controller.
FUNCTION ABORTED	The user pressed a button on the touchpad during an automatic operation.	Restart automatic operation and then refrain from pressing any buttons on the touchpad.

Manual Override

The LCI Level Up Automatic Leveling System can be manually operated with an electric drill. In the event of electrical or system failure, this manual method of extending and retracting the jacks can be used. See the instructions below.

NOTE: Unhook the power unit motor from the power source prior to attempting the manual override procedure.

1. Locate the valves that are paired with the leveling jacks to be manually overridden. Leveling jack valves are located on the manifold (Fig. 8).
2. Using a 5/32" hex wrench, open the valve by turning the manual override set screw clockwise (Fig. 9A).
3. Remove protective label (Fig. 10A) from power unit to reveal the manual override coupler.
4. Using an electric drill with a 1/4" hex bit, insert the hex bit into the manual override coupler to manually operate the Level Up system (Fig. 11).
 - A. Run the drill forward (clockwise) to retract the leveling jack (Fig. 11A).
 - B. Run the drill in reverse (counterclockwise) to extend the leveling jack (Fig. 11B).
5. Make sure to turn the manual override set screw on the valve (Fig. 12A) back to the counterclockwise position after extending or retracting the jacks.





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