



TM

LCI LEVEL-UP
MOTORHOME LEVELING (2013-PRESENT)

OWNER'S MANUAL

L I P P E R T
C O M P O N E N T STM

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System Information



Failure to act in accordance with the following may result in serious personal injury or death.

The use of the LCI Level-Up Motorhome Leveling System to support the coach for any reason other than which it is intended is prohibited by Lippert's Limited Warranty. The LCI Level-Up Motorhome Leveling System is designed as a "Leveling" system only and should not be used to provide service for any reason under the coach, such as changing tires or servicing the leveling system.



Lippert Components Inc. recommends that a trained professional be employed to change the tires on the coach. Any attempts to change tires or perform other services while coach is supported by the LCI Level-Up Motorhome Leveling System could result in death, serious injury and/or damage to the motor home.

Prior To Operation

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

1. The coach is parked on a reasonably level surface.
2. The coach "PARKING BRAKE" is engaged.
3. The coach transmission should be in the neutral or park position.
4. Be sure all persons, pets and property are clear of the coach while LCI Level-Up Motorhome Leveling System is in operation.
5. Clear all jack landing locations of debris and obstructions. Locations should also be free of depressions.
6. When parking the coach on extremely soft surfaces, utilize load distribution pads under each jack.
7. Be sure to keep hands and other body parts clear of fluid leaks. Oil leaks in the LCI Level-Up Motorhome Leveling System may be under high pressure and can cause serious skin penetrating injuries.
8. Never lift the coach completely off the ground. Lifting the coach so the wheels are not touching the ground will create an unstable and unsafe condition.

NOTE: After starting the automatic leveling cycle it is very important that you do not move around in the coach until the unit is level and the green LCI logo light illuminates in the center of the touchpad. Failure to remain still during the leveling cycle could have an effect on the performance of the leveling system.

System Description

The LCI Level-Up Motorhome Leveling System is an electric/hydraulic system. 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 coach.

Mechanical portions of the LCI Level-Up Motorhome Leveling System are replaceable. Contact Lippert Components, Inc. to obtain replacement parts.

Component Description

The LCI Level-Up Motorhome Leveling System consists of the following major components:

Lippert jacks are rated at a lifting capacity appropriate for your coach. Each jack has a 9" diameter (63.5-square-inch) shoe on a ball swivel for maximum surface contact on all surfaces. (12" dia. - 113-square-inch shoe also available.)

Each jack is powered from a central 12V DC motor/pump assembly, which also includes the hydraulic oil reservoir tank, control valve manifold, and solenoid valves.

The LCI Level-Up Motorhome Leveling System is controlled electronically from the driver's seat of the coach. The control panel is mounted in the dash. The system can be operated in a manual mode or a fully automatic mode.

Maintenance

Fluid Recommendation

The LCI Level-Up Motorhome Leveling System is pre-filled, primed and ready to operate direct from the manufacturer. Automatic transmission fluid (ATF) with Dexron III or Mercon 5 or a blend of both is recommended by Lippert Components, Inc. Specific fluid information can be found on page 15.

NOTE: 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. Please consult fluid specifications on page 14.

Preventative Maintenance Procedures

1. Check fluid in reservoir every 12 months. If fluid is a clear, red color, do not change. If fluid is milky, pink and murky, and not clear red in color, drain reservoir and add new fluid. Use recommended fluid (see page 14).
 - A. Check fluid only when all jacks are fully retracted.
 - B. When checking fluid level, fill to within ¼ to ½ inch of fill spout.
2. Inspect and clean all Power Unit electrical connections every 12 months. If corrosion is evident, spray unit with WD-40 or equivalent.
3. Remove dirt and road debris from jacks as needed.



Your coach should be supported at both front and rear axles with jack stands before working underneath. Failure to do so may result in personal injury or death.

4. If jacks are down for extended periods, it is recommended to spray exposed leveling jack rods with a silicone lubricant every seven days for protection. If your coach is located in a salty environment, it is recommended to spray the rods every 2 to 3 days.

NOTE: OEM to install attachment brackets for leveling jacks.

Aluminum Jacks

Fig. 1



Fig. 2



Fig. 3



Fig. 1 - [195860](#)

CAPACITY - 8,000 lb.
STROKE - 15.00 in.
BORE - 2.00 in.
H - 21.375 in.
ROD DIA. - 1.50 in.
9" FOOT PAD-STANDARD
12" FOOT PAD-OPTION - 117238

Fig. 2 - [236560](#)

CAPACITY - 14,000 lb.
STROKE - 15.13 in.
BORE - 2.50 in.
H - 21.50 in.
ROD DIA. - 1.875 in.
9" FOOT PAD-STANDARD
12" FOOT PAD-OPTION - 117238

Fig. 3 - 258550

CAPACITY - 20,000 lb.
STROKE - 16.00 in.
BORE - 3.00 in.
H - 23.063 in.
ROD DIA. - 2.25 in.
9" FOOT PAD-STANDARD
12" FOOT PAD-OPTION - 117238

Fig. 4

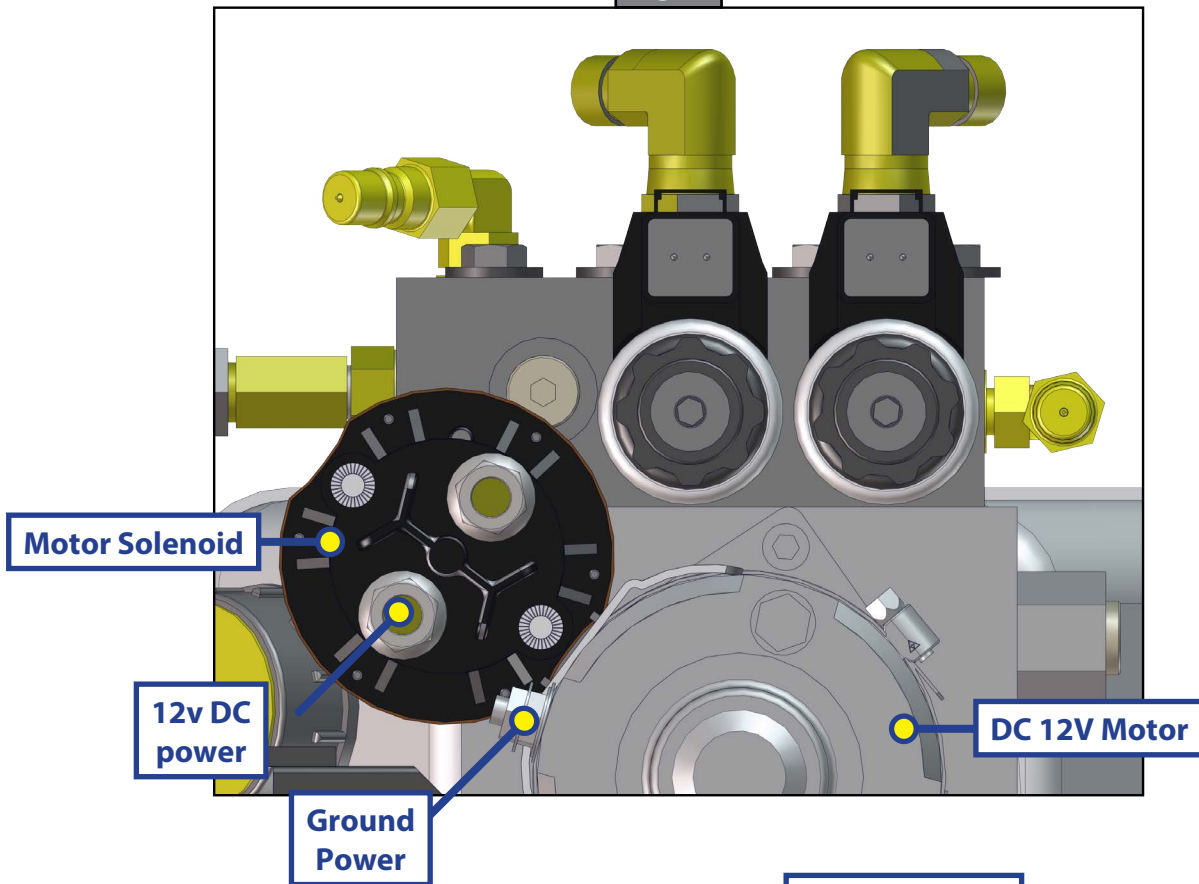
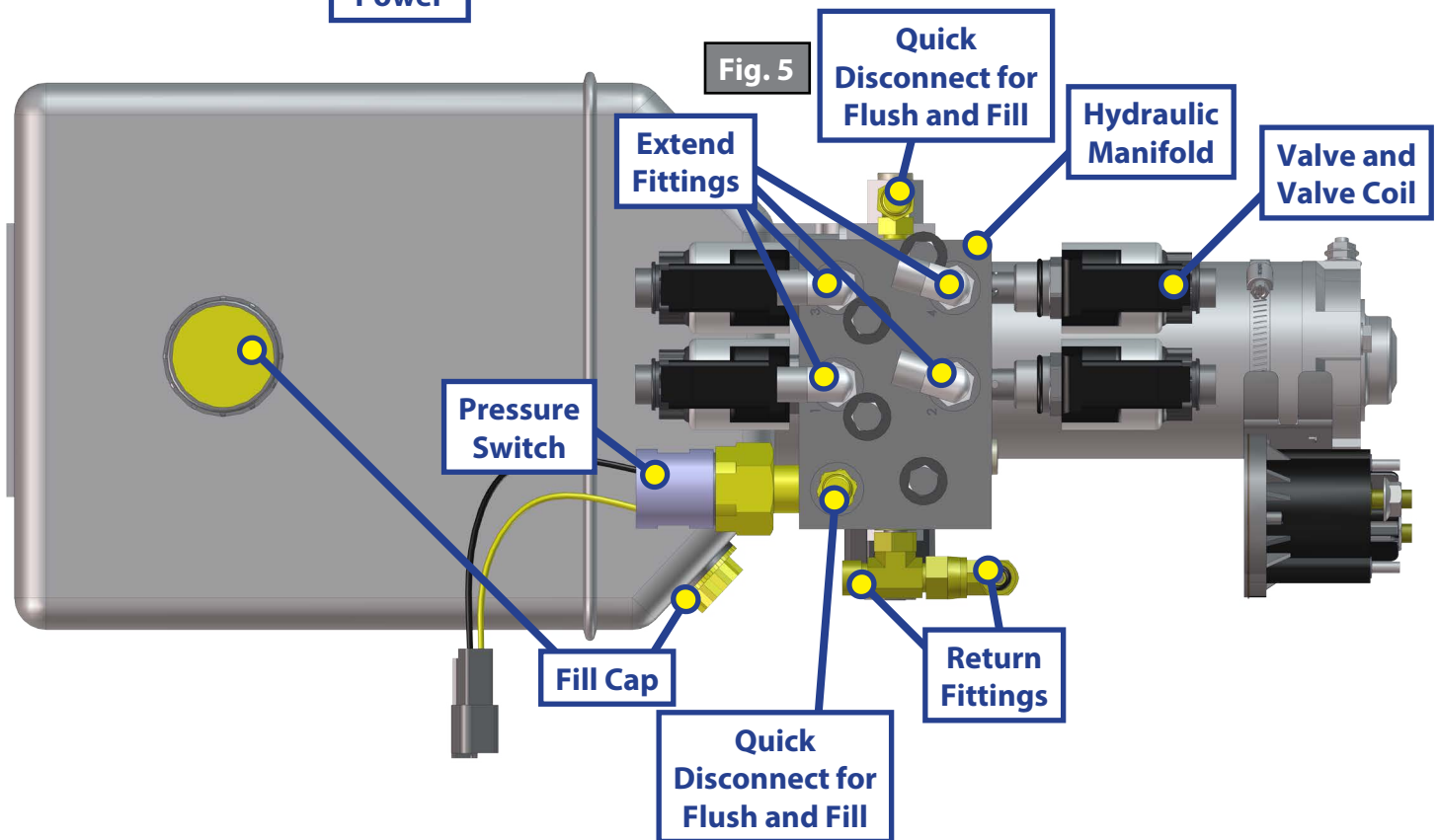


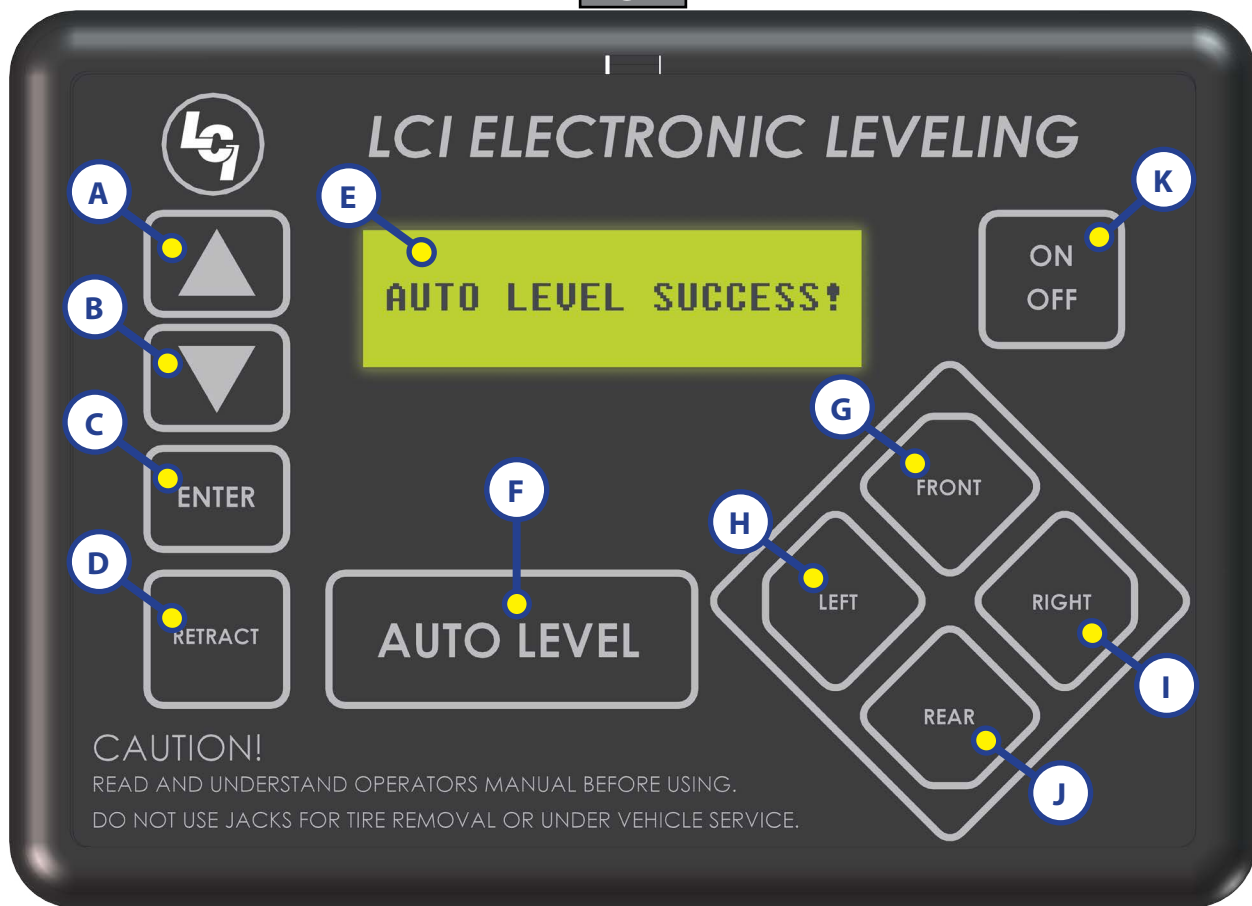
Fig. 5



1. Fittings - High Pressure O-Ring Face - Size 4
2. Hose - 1/4" I.D. 3000PSI - W.P. Rated

NOTE: Fittings are labeled with port assignments found stamped into the manifold for easy identification.

Fig. 6



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. - 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 in manual mode.
H	Left Jack Button - Activates both left jacks in manual mode.
I	Right Jack Button - Activates both right jacks in manual mode.
J	Rear Jack Button - Activates both rear jacks in manual mode.
K	Power Button - Turns leveling system on and off.

Level Zero Point Calibration

Before auto leveling features are available, the Level Zero point **MUST** be set. This is the point to which the system will return when an auto leveling cycle is initiated.

To set the zero point (controller module **MUST** be fully secured in production-intent location), first run a manual leveling sequence to get the vehicle to the desired level point. Then activate the Level Zero point configuration mode.

This mode is enabled by performing the following sequence:

1. Turn panel off.
2. Press the Front switch 10 times (On Winnebago units, press FRONT 5 times).
3. Press the Rear switch 10 times (On Winnebago units, press REAR 5 times).
4. At this point, a tone will sound and the display will read ZERO POINT CALIBRATION.
5. Press ENTER to set the zero point.
6. Screen will then display Zero Point Stability Check and PLEASE WAIT.
7. Tone will sound and the screen will display ZERO POINT SUCCESSFUL.
8. Control will then turn off.

For Diesel Units With Air Bag Suspensions ONLY:

The leveling control will automatically detect an air bag system. If the unit does not use air bags, the display will read "NO" for air bag control. If the display reads "NO," but an air bag system is present on the unit:

1. Confirm harness is connected properly.
2. Run Auto-Level function.
3. Recalibrate the Zero Point.
4. If the air bag system is still not being detected, contact the OEM for more information.

User Alarm Mode

If the alarm system detects that the park brake has been disengaged while at least one jack is not fully retracted and the sensor value changes in any axis more than a predefined amount, the panel will signal this error to the user.

When in alarm mode, all LEDs will flash and the buzzer will beep. The Status LEDs will show the system status.

The system performs an automatic retract.

No other features are available in this mode.

Miscellaneous

- The system will automatically shut down after 4 minutes of no operation.
- Auto leveling cycle cannot be started until all jacks are fully retracted. Make sure jacks are retracted before attempting to auto level. (Unit will perform full retract automatically if jacks are down on the request of an auto cycle.)
- System will refuse any operation when a low voltage condition is present.
- System will automatically alarm and retract if park brake is disengaged and jacks are not retracted with any change in sensor readings. In alarm mode, the only available feature is to retract all jacks.
- Please note WAIT display shows the status of Air/Auxiliary features.

NOTE: The LEDs blink differently when in special controller modes (error, alarm, and configuration).

Learning how to recognize these modes is important. Excess angle LED blinks whenever the Y axis (vehicle length) is over 5° from programmed level point.

Low Voltage Signal

1. The vehicle requires 12.7V DC to operate in the AUTO mode. If the voltage is too low, the screen will display LOW VOLTAGE. If voltage drops below 12.7V DC, the system will only operate in the MANUAL MODE and continue to display LOW VOLTAGE.
2. Minimum Voltage - If voltage drops below 9.5V DC during AUTO or MANUAL operation LOW VOLTAGE will appear in the screen and the system will cease operating.

Error Mode

Excess Angle

1. The control will not operate at extreme slopes, i.e. 3.5 degrees fore and aft and 3.5 degrees side to side.
2. If the coach indicates "EXCESS ANGLE" or "JACKS STROKED OUT" during an auto level cycle, move the coach to a more level spot.

Error Mode

NOTES:

- If an error occurs before or during operation, the error will be displayed in the LCD and an alarm will sound. To reset all error or service displays, push RETRACT and ENTER at the same time.
- All normal functions will be disabled when the system is in Error Mode.
- Auto Level can only commence if running voltage is 12.7V DC or above.
- Auto Level operation will halt if running voltage drops to 9.5V DC.
- Manual Level operation can be performed at all running voltages above 9.5V DC.

Error Text	Description
Excess Angle	Excess slope for auto leveling
Feature Disabled	Control not zeroed
External Sensor	Remote sensor short or disconnected
Out of Stroke	Check campsite for even, level ground and turn engine on - Check battery voltage under load.
Low Voltage	Turn engine on - Check battery voltage under load.
Function Aborted	Panic stop
Jack Timeout	Auto mode/Retract timeout
Auto Level Fail	Unable to level
Not Configured	Control not zeroed
Zero Not Set	Control not zeroed
Battery Voltage	Turn engine on - Check battery voltage under load
Apply Park Brake to Auto Level	Set parking brake
Unit has retracted for longer than 50 seconds	Retract timeout, return leveling jacks for service. Latched retract mode
Unable to Finish Leveling	Move coach to a more level site
Check Wiring	Touchpad is powered, but not communicating with the controller. Check pin 1 and 2 of touchpad harness
Caution, Excess Run Time	Pump run too long in manual mode
Latched Retract / Service	Check for leaking jack hose or fitting, reset by pressing retract and enter at the same time

Operation

Selecting A Site

When the coach is parked on an excessive slope the leveling requirements may exceed the jack lift stroke capability. If the coach is parked on an excessive slope, the coach should be moved to a more level surface before the leveling system is deployed.

EXCESS ANGLE will appear on the LCD screen if the coach is 3.5 degrees out of level front to rear or side to side. See Page 9.

Automatic Leveling Procedure

NOTE: Coach **MUST** be running for LCI Electronic Leveling System to operate.

1. Push ON/OFF button on Control Panel. The system is now operational and the electronic level lights will become active.
2. Check to see that the Control Pad ENGAGE PARK BRAKE is engaged.
3. Push the AUTO LEVEL button to begin the automatic leveling cycle.
4. Push ON/OFF button to de-energize the system.

Automatic Leveling Descriptive Logic

Grounding: Steps 1-3 describe the process of how the AUTO LEVEL LOGIC extends the jacks to the ground:

1. Depending on which end of the coach is lowest to the ground, the level sensor in the brain will activate the jacks, one at a time on the lowest end first, either front or rear.
 - A. Ground lowest side jack first; i.e., front passenger side.
 - B. Ground remaining side jack next; i.e., front driver side.
2. Together, both jacks will lift lowest end until level; i.e., front of coach will lift briefly until the coach is level.
3. The system will then ground remaining jacks, one at a time; i.e., rear jacks.
 - A. Ground lowest side jack first; i.e., rear passenger side.
 - B. Ground remaining side jack next; i.e., rear driver side.

Leveling: Steps 4-6 describe the process of how the AUTO LEVEL LOGIC levels the coach once the jacks have been grounded. This process may repeat several times until level.

4. Fore/Aft
5. Side/Side
6. Individual
 - A. Minor adjustments to limit/prevent twist

NOTE: After starting the automatic leveling cycle, it is very important that you do not move around in the coach until the unit is level and the green LCI logo light illuminates in the center of the touchpad. Failure to remain still during the leveling cycle could have an effect on the performance of the leveling system.



Never lift all the wheels off the ground to level the coach! Lifting all wheels off the ground may result in serious personal injury or death.

Manual Leveling Procedure

NOTE: When leveling your coach, the coach should be leveled from FRONT TO REAR first (step 2-4). When the coach is level from FRONT TO REAR, then level the coach from LEFT TO RIGHT (step 5).

NOTE: Coach requires 12.7V DC to commence auto leveling function. If voltage at the power unit is not 12.7V DC, run the engine.

1. Push ON/OFF button on control panel. The system is now operational and the ON/OFF light will be lit.
2. Push DOWN ARROW to display MANUAL LEVEL on the screen. Push ENTER to set.
3. Push FRONT button until jacks contact the ground and lift the front of the coach 1-2 inches.
4. Push REAR button until jacks contact the ground and lift rear of coach. Keep button depressed until level indicator displays level.
5. Push LEFT or RIGHT button. If level indicator is toward left of coach, push RIGHT button. If level indicator is toward right of coach push LEFT button. Keep button depressed until level indicator displays level.

NOTE: The right and left jacks are used to level the coach side to side. Pushing the LEFT button on the control panel will extend both left jacks. Pushing the RIGHT button on the control panel will extend both right jacks. Jacks always work in pairs, both front jacks; both right side jacks, etc.

6. Repeat steps 2 through 5 if needed.
7. Turn power off to leveling system by pushing ON/OFF button.
8. Visually inspect all jacks to ensure all shoes are touching the ground. Should one of the rear jack shoes not be touching the ground, press the corresponding LEFT or RIGHT button to lower the non-compliant jack to the ground.



Never lift all the wheels off the ground to level the coach! Lifting all wheels off the ground may result in serious personal injury or death.

Jack Retract Procedures

1. Energize the system by pushing ON/OFF button on control panel. The LCD screen will display JACKS DOWN.
2. Push DOWN ARROW to display AUTO RETRACT on the screen.
3. Push ENTER to begin automatically retracting the jacks.

NOTE: If you wish to stop the jacks from retracting, turn the system off and back on again by pushing the ON/OFF button twice. The coach can then be manually leveled by following steps 1-5 in the MANUAL LEVELING PROCEDURE section above. Press ENTER to acknowledge.

4. When the JACKS DOWN display goes off, push the ON/OFF button on the Control Panel to de-energize the system. After a brief visual inspection around the coach to verify the jacks are fully retracted, you may proceed to travel.

NOTE: To retract in the MANUAL mode, push the RETRACT button until it lights. By pushing any of the JACK buttons, the jacks will retract in pairs, i.e. FRONT button, both front jacks will retract, etc.

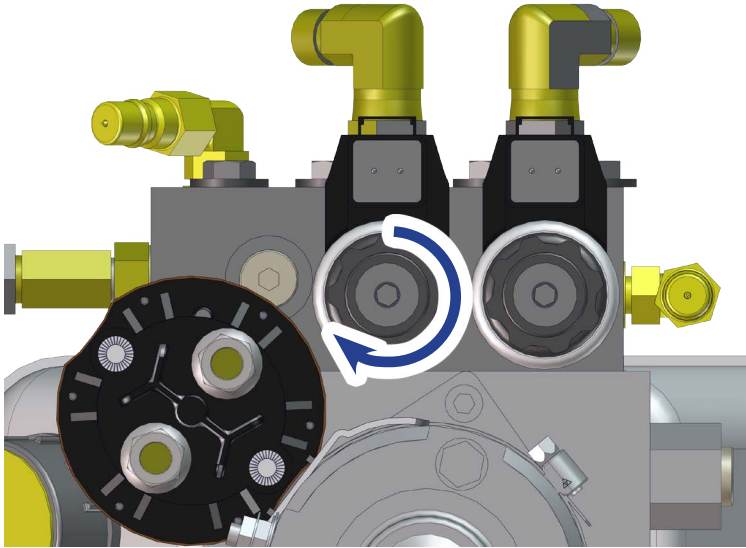
5. "AUTO RETRACT" can also be commenced by pushing and holding the "RETRACT" button for 1 second.

NOTE: In cold weather operation, always check to make sure all jacks, slide rooms and steps are fully retracted before travel.

Manual Override - Jacks

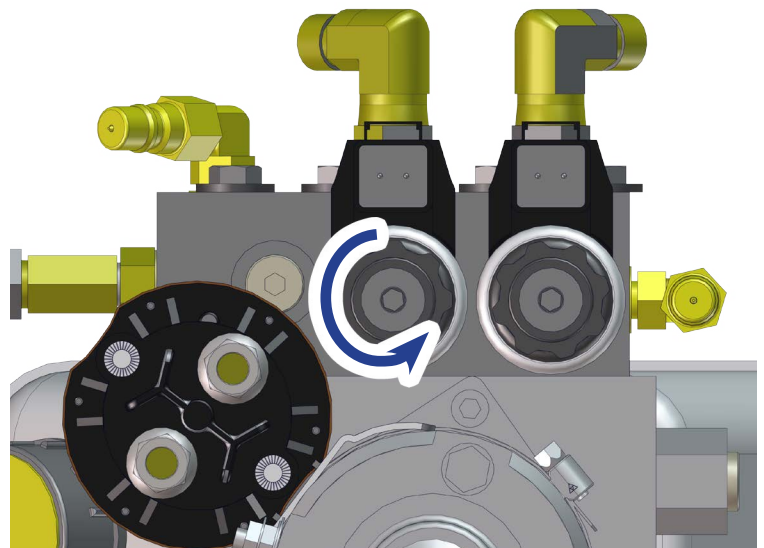
In the event that the jacks will not extend or retract, the valves can be manually overridden by using a $\frac{5}{32}$ " hex wrench to turn the manual override clockwise on the valve (See Fig. 7). The leveling jacks can then be extended or retracted. Remember to turn the manual override completely counterclockwise (See Fig. 8) until it will no longer turn to close the valve after the jacks have been completely extended or retracted. Do not over-tighten override set screws, as this can damage the valves.

Fig. 7



Clockwise for manual override

Fig. 8



Counterclockwise for normal operation

Manual Override - Power System

The Lippert LCI Level-Up Motorhome Leveling System can be run with auxiliary power devices like cordless or power drills. In the event of electrical or system failure, this manual method of extending and retracting the jacks can be used. A standard handheld drill is all that is required. See the instructions below.

Fig. 9

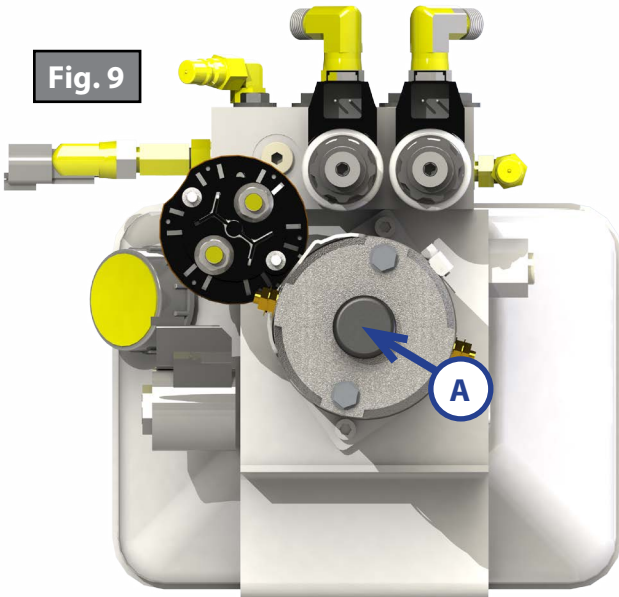
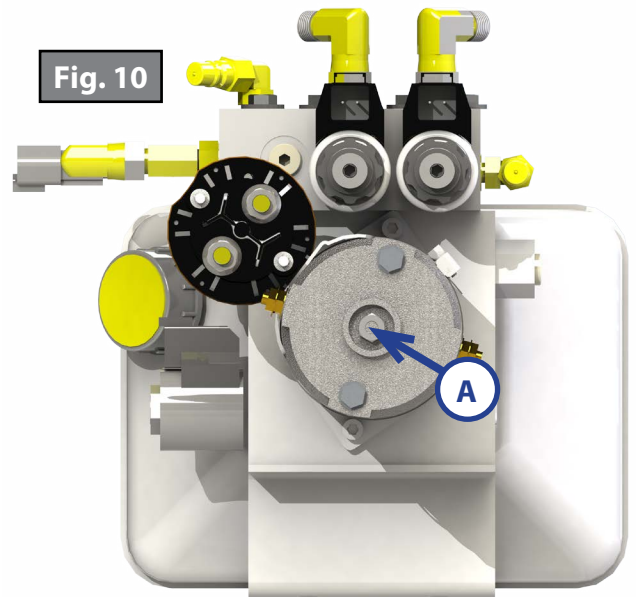


Fig. 10



1. Remove plastic cap (Fig. 9A).
2. Disconnect or shield power cables on the motor.
3. Using a $\frac{1}{2}$ " socket and auxiliary drive device, i.e. cordless or power drill, insert $\frac{1}{2}$ " socket onto coupler found under plastic cap (Fig. 10A).
4. Run drill in reverse or counterclockwise to retract jacks.

Automatic Safety Shutoff

If the control panel is left on and inactive for four minutes it will shut off automatically. To reset the system, the coach ignition **MUST** be turned off, then back on, and the ON/OFF button **MUST** again be pushed.

Drive Away Protection System

If the ignition is in the "RUN" position, jacks are down, and the operator releases the parking brake, all indicator lights will flash and the alarm beeper will activate. The system will then automatically retract the jacks until the jacks are fully retracted or the operator resets the parking brake.

The power unit will also operate to keep the jacks retracted in the event the leveling system loses pressure as the coach is being driven.

"Jacks Down" Alarm

The LCI Level-Up Motorhome Leveling System is designed to sound an alarm and illuminate the control panel in the event of two (2) possible scenarios:

1. A "RETRACT" hose leaks.
2. The pressure holding the jacks in the retracted position falls to approximately 1500 psi to sound the alarm. If the alarm sounds and the control panel illuminates and flashes while driving the vehicle:
 - A. Immediately find an area to safely pull the vehicle off of the roadway.
 - B. Set the PARKING BRAKE.
 - C. Inspect all jacks, hoses, and valves for leaks. If no leaks are observed:
 - I. Turn control panel "ON."
 - II. Push "RETRACT ALL JACKS" button.
 - III. Wait until "JACKS DOWN" light and alarm are off.
 - IV. Inspect jacks. If jacks are retracted and no leaks are observed, vehicle can be driven.

NOTE: If system is leaking or alarm does not subside after applying the above procedure, disconnect wires from pressure switch and proceed immediately to a service center. The pressure switch is a blue and gold colored valve located on the power unit manifold identified by the spark proof style connector with yellow and black wires. (See Page 6, Fig. 5).

NOTE: For prolonged travel to the service center, be sure to stop and check the disposition of the leveling jacks every so often to make sure they are not extending.

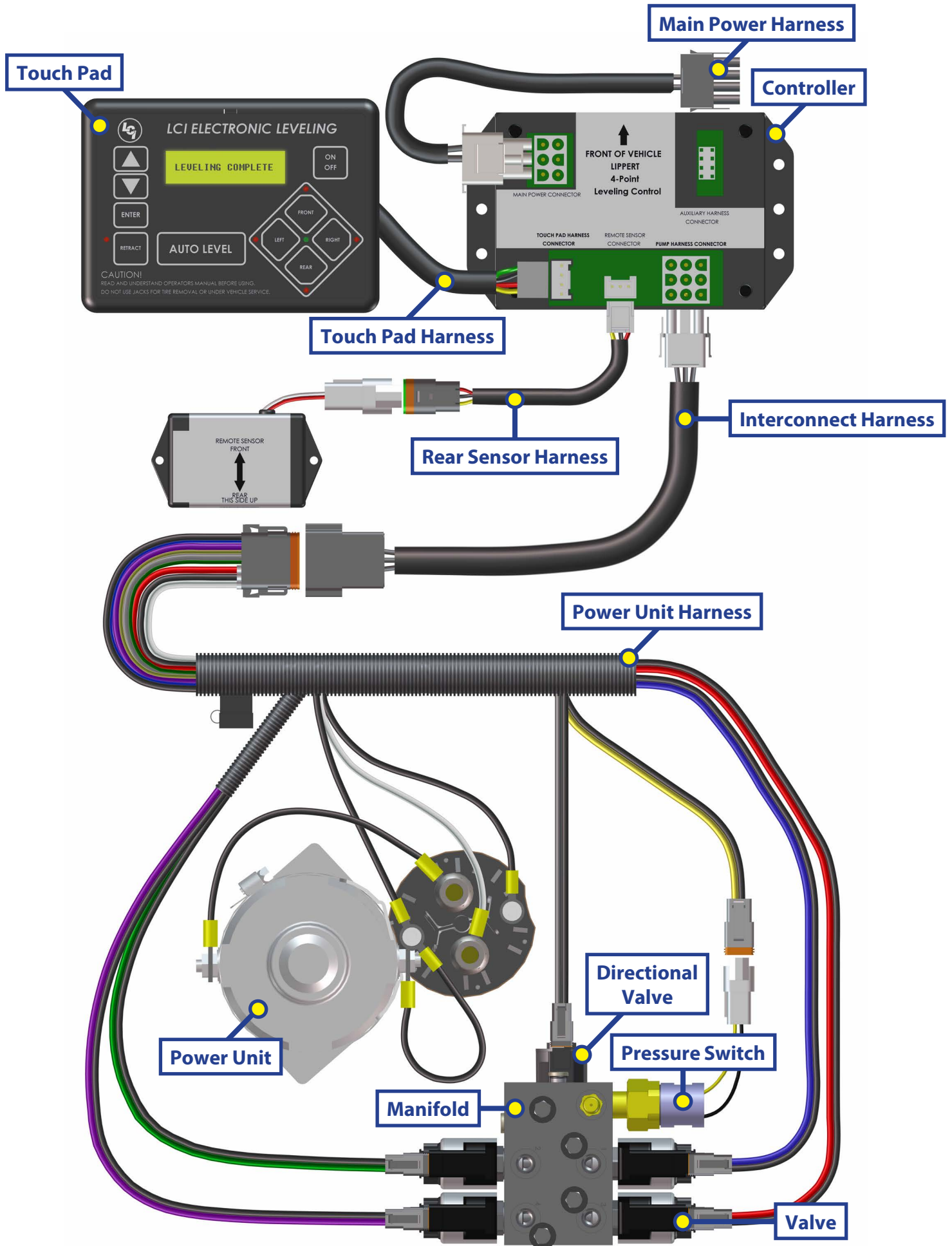
Fluid Recommendation

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.

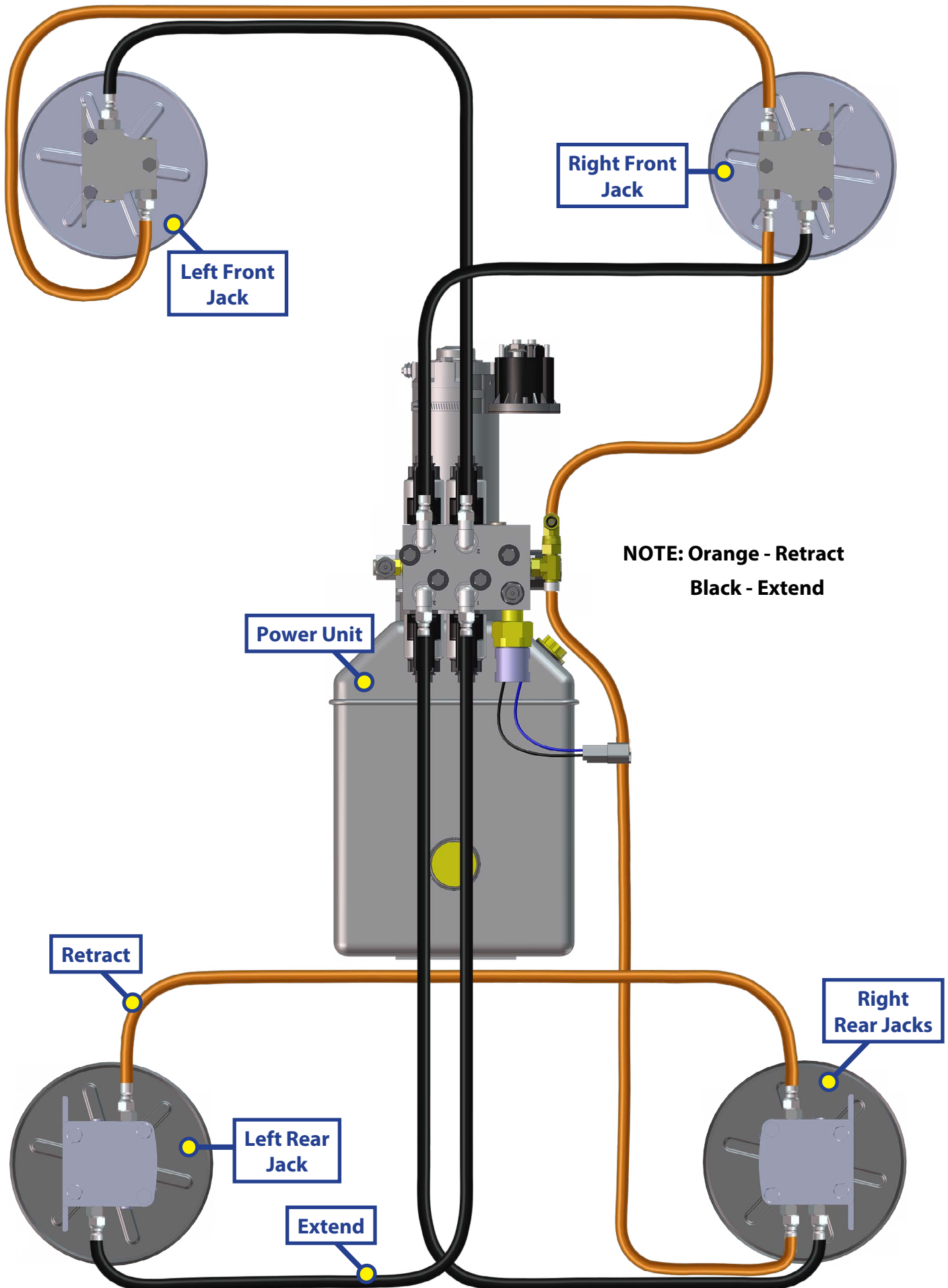
In colder temperatures (less than 10° F) the jacks may extend and retract slowly due to the fluid's molecular nature. For cold weather operation, fluid specially formulated for low temperatures may be desirable. For a list of approved fluid specifications, see TI-188.

What Is Happening?	Why?	What Should Be Done?
System will not turn on and On/Off indicator light does not illuminate.	Coach ignition not in RUN position.	Turn ignition to RUN position.
	Parking brake not set.	Set parking brake.
	Controls have been on for more than four minutes and have timed out.	Turn ignition OFF and then back ON.
Control panel turns on but turns off when jack button is pushed or displays "Low Voltage."	Low voltage on battery.	Start coach to charge battery.
Control panel turns on, coach will not auto level, "Jacks Down" displayed, jacks are retracted.	Low fluid level.	Change fluid level in reservoir. If fluid is low, add fluid to ½" from top of reservoir with jacks retracted. If JACKS DOWN light remains on, call Lippert Service.
Jacks will not extend to ground, pump is running.	Little to no fluid in reservoir.	Add fluid as recommended; See page 14.
	Leg valve is inoperative.	Clean, repair or replace.
	Electronic signal is lost between control and leg valves.	Trace wires for voltage drop or loss of signal. Repair or replace necessary wires or replace control pad.
Any one or two jacks will not retract.	Hose damaged or unconnected.	Replace with new hose or reconnect hose.
	Valve inoperative.	Replace inoperative valve.
	Electronic signal is lost between control and solenoid.	Attempt to retract jacks in MANUAL mode. If successful, replace control pad. If not, test for voltage drop between control pad and leg valve. Repair bad wiring or replace defective board or valve.
"Jacks Retracted" does not display when all jacks are retracted.	Low fluid level.	Add fluid as recommended; See page 14.
	Retract pressure switch inoperable.	Check connection or replace.
Alarm sounds and "Jacks Down" light starts flashing while traveling, jacks are fully retracted.	Low fluid level.	Add fluid as recommended; See page 14.
	Retract pressure switch inoperable.	Check connection or replace.
Jack bleeds down after being extended.	Valve Manual Override open.	Close override. See Page 12, Fig. 8.
Control panel powers up, screen displays "Low Voltage."	Engine not running.	Start coach engine.
No power to control panel	Tripped circuit breaker	Reset
	Ignition not ON	Turn ignition ON.
Auto level function does not finish	Error code "Unable to Finish Leveling"	Move coach to a more level site.

Wiring Diagram

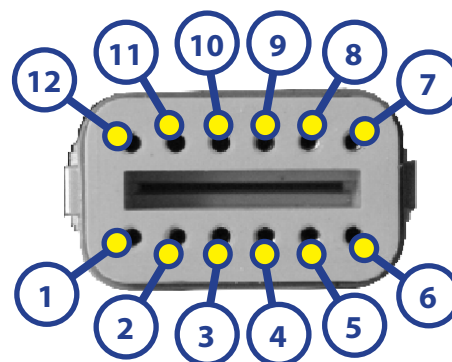


Plumbing Diagram



12-PIN WIRE HARNESS

- | | |
|----------------------------------|----------------------------------|
| 1. WHITE (CHASSIS POWER) | 6. BLUE (ROADSIDE REAR VALVE) |
| 2. BLACK W/ WHITE(PUMP SOLENOID) | 7. BROWN (GROUND) |
| 3. RED (CURBSIDE REAR VALVE) | 8. PURPLE (CURBSIDE FRONT VALVE) |
| 4. GREEN (ROADSIDE FRONT VALVE) | 9. GREY (PUMP SOLENOID) |
| 5. YELLOW (PSI SWITCH) | 10. AUX |
| | 11. AUX |
| | 12. AUX |



Bill of Materials

Description	Part #	Details	Quantity
Power Unit	196471	Hydraulic Power Unit, Leveling Only	1
Power Unit	175249	Hydraulic Power Unit, Leveling Only	1
Power Unit	293559	Hydraulic Power Unit, Leveling Only	1
Motor	179327	12VDC Motor for Power Unit	1
Solenoid	161394	Motor Solenoid	1
Valve	177094	Blocking Valve	4
Valve	259524	Directional Valve	1
Coil	174184	Electromagnetic Coil for Blocking Valve	5
Pressure Switch	142927	2150 PSI Rated Pressure Switch	1
Pump Harness	178373	Electrical Harness for Power Unit	1
Main Harness	178375	30' Hydraulic Leveling Main Harness	1
Touchpad - Controller Harness	178279	Electrical Harness between Touch Pad & Controller	1
Remote Sensor Harness	241314	Remote Sensor to Brain Harness	1
Brain	289252	Control Module	1
Touchpad	234802	Touch Panel mounted in Dash	1
Remote Sensor	294287	Secondary Level Sensor mounted rearward	1
Hydraulic Jacks	195860	8k Leveling Jacks	*
	236560	14k Leveling Jacks	*
	298550	20k Leveling Jacks	*
Foot Pad	113309	9" Foot Pad for Leveling Jacks	4
	117238	12" Foot Pad for Leveling Jacks - Optional	**

*Jack quantities will either be 2 or 4 depending on OEM specified design.

**Optional - Quantities will vary.



L I P P E R T C O M P O N E N T STM

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For all concerns or questions, please contact
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