

Lippert Components 196894

Lippert Components 196894 Hydraulic Leveling System Instruction Manual

Model: 196894

INTRODUCTION

This manual provides essential instructions for the safe and effective setup, operation, and maintenance of the Lippert Components 196894 Hydraulic Leveling System. Please read this manual thoroughly before attempting any installation, operation, or maintenance procedures to ensure proper function and prevent injury or damage.

SAFETY INFORMATION

WARNING: Failure to follow these safety instructions could result in serious injury or death.

- Always wear appropriate personal protective equipment (PPE) when working with the system.
- Ensure the vehicle is parked on a firm, level surface and the parking brake is engaged before operating the leveling system.
- Keep hands and feet clear of all moving parts during operation.
- Do not attempt to lift the vehicle beyond its design limits.
- Regularly inspect hydraulic lines and electrical connections for damage or leaks.
- Consult a qualified technician for any repairs beyond basic maintenance.

COMPONENT IDENTIFICATION

Refer to the diagram below for identification of the main components of the Lippert Components 196894 Hydraulic Leveling System.

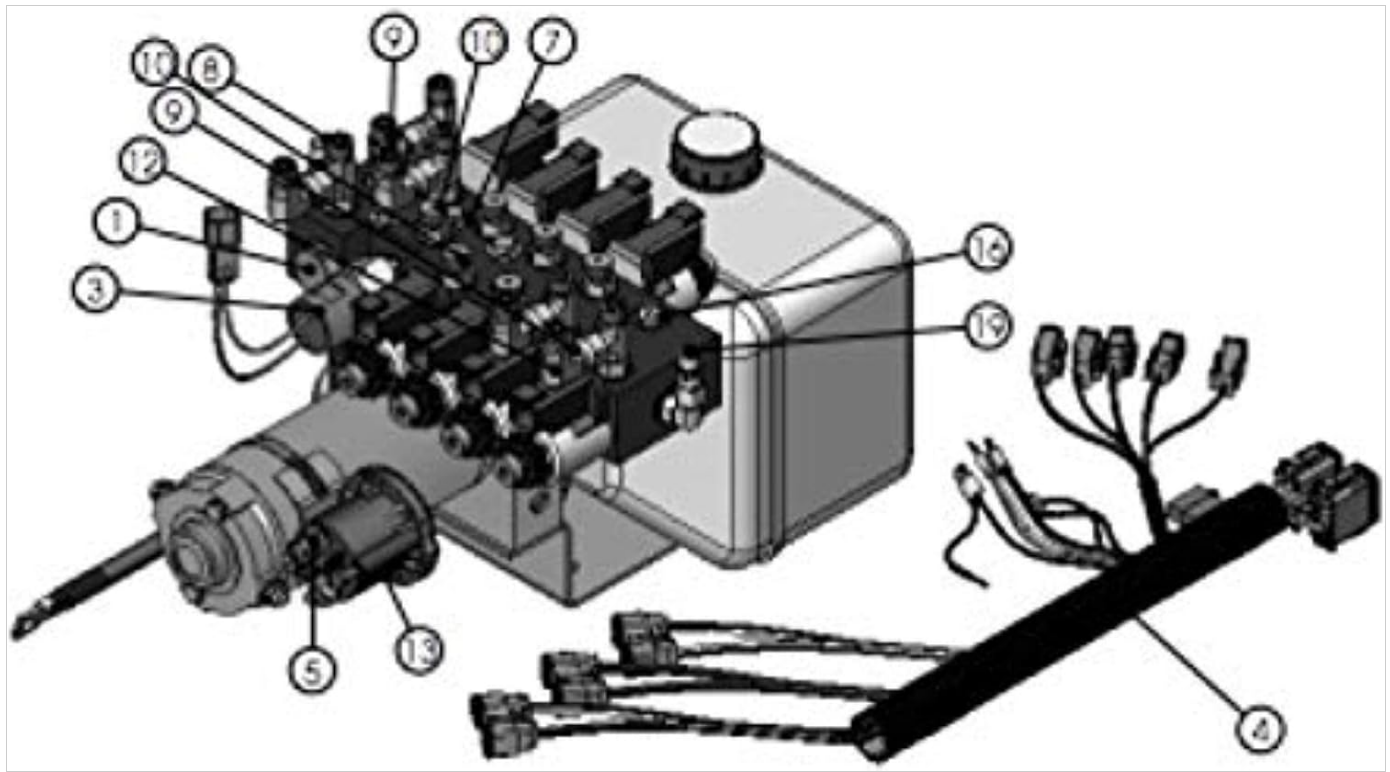


Figure 1: Overview of the Hydraulic Leveling System Components. This diagram illustrates the main hydraulic power unit, including the reservoir, pump, motor, manifold, solenoid valves, and associated wiring harness.

1. **Pressure Switch:** Monitors hydraulic pressure within the system.
2. **Solenoid Valve:** Controls the flow of hydraulic fluid to specific leveling jacks.
3. **Main Wiring Harness:** Connects the power unit to the control panel and other electrical components.
4. **Hydraulic Motor:** Powers the hydraulic pump.
5. **Manual Override Valve:** Allows for manual retraction of jacks in case of power failure.
6. **Hydraulic Reservoir Cap:** Provides access for checking and adding hydraulic fluid.
7. **Hydraulic Reservoir:** Stores the hydraulic fluid for the system.
8. **Hydraulic Manifold Block:** Distributes hydraulic fluid to various components via solenoid valves.
9. **Hydraulic Pump:** Generates hydraulic pressure to extend and retract the leveling jacks.

SETUP AND INSTALLATION

Installation of the Lippert Components 196894 Hydraulic Leveling System requires specialized knowledge and tools. It is highly recommended that installation be performed by a qualified RV service technician.

- **Mounting the Power Unit:** Securely mount the hydraulic power unit in a protected location, ensuring adequate ventilation and access for maintenance.
- **Hydraulic Line Connections:** Connect hydraulic lines from the power unit to each leveling jack, ensuring all fittings are tight and leak-free.
- **Electrical Connections:** Connect the main wiring harness to the vehicle's power supply (12V DC), control panel, and other system components according to the wiring diagram provided with the full installation guide.
- **Fluid Fill and Bleed:** Fill the hydraulic reservoir with approved hydraulic fluid and follow the manufacturer's procedure for bleeding air from the system.
- **Initial Test:** After installation, perform a complete system test to verify proper operation of all jacks and controls.

OPERATING INSTRUCTIONS

Before operating the leveling system, ensure the vehicle is parked on a reasonably level surface and the parking brake is engaged.

Automatic Leveling

1. Turn on the leveling system's control panel.
2. Press the "AUTO LEVEL" button. The system will automatically extend the jacks to level the vehicle.
3. Wait for the "LEVEL" indicator light to illuminate, signifying that the leveling process is complete.

Manual Leveling

1. Turn on the leveling system's control panel.
2. Use the individual jack control buttons (e.g., "FRONT", "REAR", "LEFT", "RIGHT") to extend or retract specific jacks until the vehicle is level.
3. Monitor the level indicators on the control panel or use a separate leveling tool.

Retracting Jacks

1. Ensure all personnel are clear of the vehicle and jacks.
2. Press the "AUTO RETRACT" or "ALL RETRACT" button on the control panel. All jacks will retract automatically.
3. Alternatively, use individual jack control buttons to retract jacks manually.
4. Confirm all jacks are fully retracted before moving the vehicle.

MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your hydraulic leveling system.

- **Hydraulic Fluid Check:** Check the hydraulic fluid level in the reservoir every three months or before extended trips. The fluid level should be within the specified range when jacks are fully retracted. Use only approved hydraulic fluid (e.g., automatic transmission fluid DEXRON III or equivalent).
- **Inspect for Leaks:** Periodically inspect all hydraulic lines, fittings, and seals for any signs of leaks. Address leaks immediately.
- **Electrical Connections:** Ensure all electrical connections are clean, tight, and free from corrosion.
- **Jack Leg Cleaning:** Keep the inner and outer jack legs clean and free of dirt and debris. Do not lubricate the jack legs unless specifically instructed by the manufacturer.
- **Battery Condition:** Ensure the vehicle's battery is fully charged and in good condition, as the hydraulic system requires adequate power for proper operation.

TROUBLESHOOTING

This section addresses common issues you might encounter with your hydraulic leveling system.

Problem	Possible Cause	Solution
System does not respond.	No power to the control panel; Blown fuse; Loose electrical connection.	Check vehicle battery and connections; Inspect and replace fuses; Verify all wiring harness connections are secure.
Jacks extend slowly or not at all.	Low hydraulic fluid level; Air in the hydraulic system; Weak battery.	Check and fill hydraulic fluid; Bleed the hydraulic system (refer to full manual); Charge or replace vehicle battery.

Problem	Possible Cause	Solution
Jacks retract slowly or not at all.	Low hydraulic fluid level; Obstruction; Manual override valve not fully closed.	Check and fill hydraulic fluid; Inspect for physical obstructions; Ensure manual override valve is fully closed.
Vehicle does not level properly.	Uneven ground; Sensor calibration issue; Faulty jack.	Reposition vehicle on more level ground; Recalibrate leveling sensors (refer to full manual); Inspect individual jacks for damage.

If troubleshooting steps do not resolve the issue, contact Lippert Components customer support or a certified service technician.

SPECIFICATIONS

- **Model Number:** 196894
- **Brand:** Lippert Components
- **System Type:** Hydraulic Leveling System
- **Power Requirement:** 12V DC (Vehicle Battery)
- **Hydraulic Fluid Type:** Automatic Transmission Fluid (DEXRON III or equivalent)
- **Operating Temperature:** Consult full product manual for specific ranges.

WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty statement included with your product or visit the official Lippert Components website. For technical support, parts, or service, please contact Lippert Components customer service directly. Have your model number (196894) and purchase date available when contacting support.
Lippert Components Customer Support: www.lci1.com/support

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question