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maXpeedingrods RS17LH

maXpeedingrods On Board Air Compressor System RS17LH User Manual

Model: RS17LH

Brand: maXpeedingrods

For optimal performance and safety, please read this manual thoroughly before installation and operation.

1. INTRODUCTION

The maXpeedingrods On Board Air Compressor System RS17LH is designed to provide convenient and reliable air pressure control for air spring suspension systems in trucks, pickups, and vans. This single-path system ensures even air distribution to air springs, enhancing ride comfort and maintaining proper ground clearance, especially when carrying heavy loads or towing trailers. The compact design and user-friendly controls allow for on-the-go adjustments without requiring an external air tank.

2. PACKAGE CONTENTS

Carefully unpack all components and verify that all items listed below are present and undamaged. If any items are missing or damaged, contact customer support immediately.



Image: Overview of all included components in the maXpeedingrods On Board Air Compressor System.

- On-Board Air Compressor (with waterproof case)
- Analog Air Pressure Gauge with Dash Panel
- Air Line Tubing (6m)
- Wire Harness (2.5m black)
- Wire Harness (8.5m red)
- Fuse Harness (1m) with 15A Fuse
- T-Fittings (Stainless Steel)
- Mounting Screws
- Electrical Terminals and Connectors
- Air Line Cutter
- Cable Ties
- Installation Manual



Image: Dimensional drawings of the compressor and gauge for installation planning.

3. SPECIFICATIONS

Feature	Specification
Model Number	RS17LH
Maximum Air Pressure	100 psi
Recommended Working Pressure	5-70 psi
Operating Temperature Range	$\geq -40^{\circ}\text{F} / \leq 158^{\circ}\text{F}$
Compressor Dimensions (L x W x H)	Approximately 232 x 182 x 145 mm
Gauge Panel Dimensions (L x W x H)	Approximately 125 x 85 x 69 mm
Item Weight	2.1 kg
Power Source	12V DC (Vehicle Electrical System)
Wire Harness	Flame Retardant
Gauge Features	Backlit for visibility in all lighting conditions



Air Line $\phi 6 \times 1$ (6m)



Wire Harness (2.5m) black



Wire Harness (8.5m) red



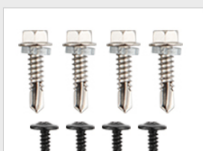
Fuse Harness (1m)



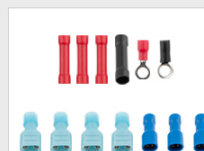
T Fitting (Stainless)



Fuse adapter



Screw



Terminal



Other Accessories

4. SAFETY INFORMATION

- Always disconnect the vehicle's battery before performing any electrical work.
- Ensure all electrical connections are secure and properly insulated to prevent short circuits.
- Mount the compressor in a location that is protected from direct water spray and excessive heat.
- Do not exceed the maximum recommended operating pressure of 70 psi for continuous use. The compressor has a maximum capability of 100 psi, but prolonged operation at this level is not recommended for air springs.
- Wear appropriate personal protective equipment (PPE) during installation, including safety glasses and gloves.
- Keep hands and clothing clear of moving parts during operation.
- Ensure the air lines are routed away from hot exhaust components or sharp edges.

5. INSTALLATION GUIDE

This kit is designed for straightforward installation. However, professional installation is recommended if you are unfamiliar with automotive electrical or air suspension systems.

5.1. Choosing a Mounting Location

The compressor should be mounted in a location that is protected from road debris and direct water exposure, ideally on the vehicle's frame rail or a similar sturdy, accessible area. The dash panel with the gauge should be mounted inside the cab in a convenient location for the driver.



Image: Recommended mounting locations for the compressor and gauge.

5.2. Electrical Connections

1. Disconnect the negative terminal of the vehicle's battery.
2. Connect the red (positive) wire from the compressor to a fused 12V power source. Use the provided fuse harness and ensure it is connected to a circuit that is only active when the ignition is on.
3. Connect the black (negative) wire from the compressor to a clean, unpainted chassis ground point.
4. Route the wiring for the dash panel and gauge into the cab, connecting it according to the included wiring diagram. Ensure all connections are tight and insulated.
5. Install the spare 15A blade fuse into the fuse holder.

Spare Blade Fuse

A blown fuse can cause compressor failure, replace it with the backup fuse when the failure happens

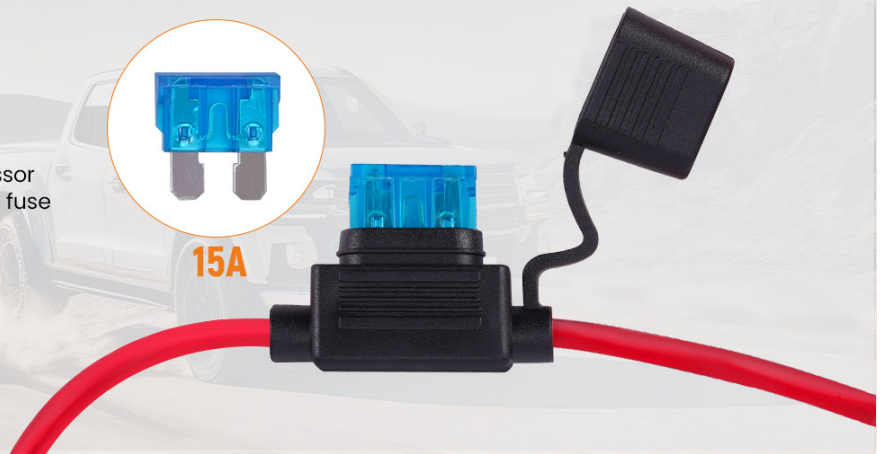


Image: The spare 15A blade fuse, crucial for protecting the compressor's electrical circuit.

5.3. Air Line Connections

Proper air line installation is critical to prevent leaks. Follow these steps carefully:

Installation Tips to Prevent Leakage

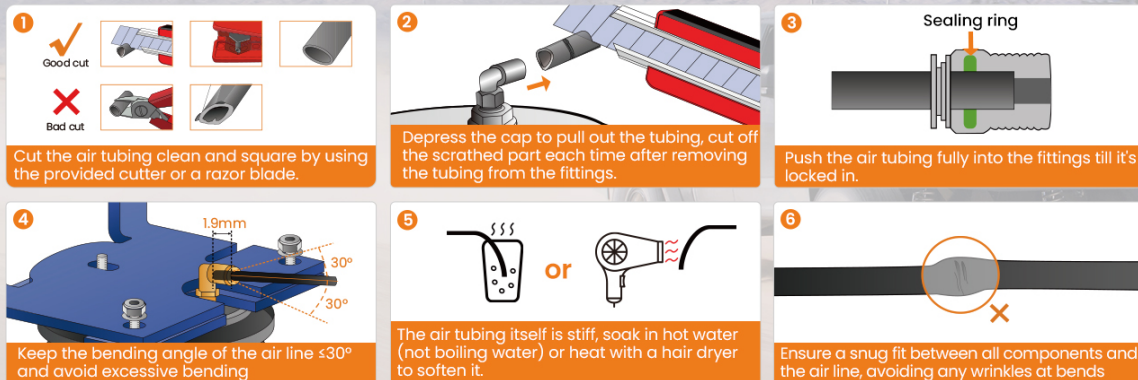


Image: Detailed tips for preventing air line leaks during installation.

1. **Cut the Air Tubing:** Use the provided air line cutter or a sharp razor blade to make clean, square cuts. Avoid jagged or angled cuts, as these can cause leaks.
2. **Prepare Tubing for Fittings:** If the tubing is stiff, soak it in hot water (not boiling) or use a hair dryer to soften it slightly.
3. **Insert into Fittings:** Depress the cap on the fitting, then push the air tubing fully into the fitting until it locks. Ensure the seating ring is properly engaged.
4. **Route Air Lines:** Route the air lines from the compressor to the air springs and to the dash gauge. Use cable ties to secure the lines, keeping them away from moving parts, sharp edges, and heat sources like the exhaust. Maintain a bending angle of less than 30 degrees to avoid kinks.
5. **Connect T-Fittings:** Use the stainless steel T-fittings to connect the air lines to the air springs, ensuring a snug fit.
6. **Check for Leaks:** After all connections are made, re-connect the battery. Inflate the air springs to the recommended pressure and spray all connections with a soapy water solution. Look for bubbles, which indicate a leak. Tighten or re-seat connections as necessary.

EASY TO INSTALL AND OPERATE

No need for air tank, fill up your air spring quickly



Image: Installation of the compressor under a vehicle.

6. OPERATING INSTRUCTIONS

Once installed, the maXpeedingrods air compressor system allows for easy adjustment of your air springs from inside the vehicle.



Image: Convenient control of air pressure from the driver's seat using the dash gauge.

1. **Turn on the System:** Locate the switch on the dash panel and turn it to the 'ON' position. The compressor will begin to operate.
2. **Monitor Pressure:** Observe the analog gauge on the dash panel. It displays the current air pressure in your air springs. The gauge is backlit for clear visibility in various lighting conditions.
3. **Adjust Pressure:** Allow the compressor to run until the desired air pressure is reached. The recommended working pressure range is 5-70 psi. Do not exceed 70 psi for normal operation.
4. **Turn off the System:** Once the desired pressure is achieved, turn the switch on the dash panel to the 'OFF' position.

This single-path system ensures that air pressure is distributed equally to both air springs, providing balanced support for your vehicle.

SINGLE PATH SYSTEM

Raise the pressure in both springs evenly



Image: Illustration of the single path system distributing air evenly to both air springs.

7. MAINTENANCE

- **Regular Inspection:** Periodically inspect all air lines and connections for signs of wear, damage, or leaks. Check electrical wiring for fraying or loose connections.
- **Compressor Cleaning:** Keep the compressor unit clean and free of excessive dirt or debris. The waterproof case provides protection, but regular cleaning helps maintain performance.
- **Fuse Check:** If the compressor fails to operate, check the 15A fuse in the fuse harness. Replace it with a new 15A fuse if blown.
- **Operating Environment:** The system is designed to operate in a wide temperature range ($\geq -40^{\circ}\text{F}$ / $\leq 158^{\circ}\text{F}$). Ensure the compressor is not exposed to temperatures outside this range for prolonged periods.

ONBOARD AIR COMPRESSOR

Compact design with waterproof case



Image: The onboard air compressor with its waterproof casing, designed for durability.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Compressor does not turn on.	No power to the compressor; Blown fuse; Loose electrical connection.	Check the dash panel switch. Verify 12V power at the compressor. Inspect and replace the 15A fuse if blown. Check all electrical connections for tightness.
Air springs do not inflate or lose pressure quickly.	Air leak in the system; Damaged air line or fitting; Faulty air spring.	Perform a leak test using soapy water on all connections and air springs. Tighten loose fittings. Replace damaged air lines or fittings. Inspect air springs for damage.
Compressor runs but air pressure does not increase.	Major air leak; Compressor malfunction.	Check for significant air leaks. If no leaks are found and the compressor is running, contact customer support.




Problem	Possible Cause	Solution
Gauge reads incorrectly.	Gauge malfunction; Air line blockage to gauge.	Verify air line connection to the gauge. If problem persists, contact customer support.




9. WARRANTY AND CUSTOMER SUPPORT

maXpeedingrods warrants its products to the original retail purchaser against manufacturing defects under normal use for **1 year** from the date of purchase. This warranty covers defects in materials and workmanship. For technical support, warranty claims, or any questions regarding your maXpeedingrods On Board Air Compressor System, please contact maXpeedingrods customer service. Lifetime technical support is provided. Contact information can typically be found on the maXpeedingrods official website or through your purchase platform.

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Related Documents - RS17LH

	<p>MAXPEEDINGRODS Coil Spring Kit Installation Guide for Chevrolet Avalanche Tahoe Suburban 1500</p> <p>Detailed installation guide for the MAXPEEDINGRODS Rear Coil Spring Bag Leveling Kit, designed for Chevrolet Avalanche, Tahoe, and Suburban 1500 models. Includes parts list, preparation steps, installation instructions, and air tightness checks.</p>
	<p>MAXPEEDINGRODS Air Spring Kit Installation Guide for Ford F-150 Pickup (LK-AB-F150-1114-VLC)</p> <p>Comprehensive installation guide for the MAXPEEDINGRODS Air Spring Kit (Model LK-AB-F150-1114-VLC), designed as a rear air helper spring leveling kit for Ford F-150 Pickup trucks. Includes a detailed parts list, pre-installation safety instructions, step-by-step assembly procedures, and final air tightness checks.</p>
	<p>MAXPEEDINGRODS Rear Air Helper Spring Leveling Kit Installation Guide for Toyota Tundra</p> <p>Comprehensive installation guide for the MAXPEEDINGRODS ABK-TOYTUN-0713-B-VLC 5000 lbs Rear Air Helper Spring Leveling Kit for Toyota Tundra (2007-2021). Includes a detailed parts list, step-by-step instructions, and important safety warnings.</p>

 <p>AIR CONTROLLER KIT INSTALLATION GUIDE</p> <p>UNIVERSAL FIT FOR MOST 1/2, 3/4 AND 1 TON PICKUPS AND VANS</p> <p>AIR SPRING LEVELING ELECTRIC CONTROLLER KIT</p>	<p>MAXPEEDINGRODS Air Controller Kit Installation Guide</p> <p>Comprehensive installation guide for the MAXPEEDINGRODS Universal Air Controller Kit, designed for 1/2, 3/4, and 1 ton pickups and vans. Provides step-by-step instructions, packing list, and operating procedures for easy setup and use.</p>
 <p>AIR SPRING KIT INSTALLATION GUIDE</p> <p>FIT FOR TOYOTA TACOMA 4WD</p> <p>REAR AIR HELPER SPRING LEVELING KIT</p>	<p>MAXPEEDINGRODS Rear Air Helper Spring Leveling Kit Installation Guide for Toyota Tacoma 4WD</p> <p>Detailed installation guide for the MAXPEEDINGRODS Rear Air Helper Spring Leveling Kit (Part Number ABK-TAC-0521-B-VLC) designed for Toyota Tacoma 4WD vehicles. Includes parts list, pre-installation instructions, step-by-step assembly, and final checks.</p>
 <p>AIR SPRING KIT INSTALLATION GUIDE</p> <p>FIT FOR FORD F-150 2WD</p> <p>REAR AIR HELPER SPRING LEVELING KIT</p>	<p>MAXpeedingRods Air Spring Kit Installation Guide for Ford F-150 2WD</p> <p>This installation guide provides step-by-step instructions for fitting the MAXpeedingRods Rear Air Helper Spring Leveling Kit to Ford F-150 2WD vehicles. It includes a comprehensive parts list, pre-installation warnings, and detailed assembly procedures.</p>