

Falcon 11-02-33-400-200

# Falcon SP2 3.3 Fast Adjust Piggyback Shocks Instruction Manual

For JLU 4-Door Vehicles (2-4.5" Lift)

## 1. PRODUCT OVERVIEW

The Falcon SP2 3.3 Fast Adjust Piggyback Shocks are designed to enhance the performance and ride quality of JLU Wrangler Unlimited (4-door) vehicles with a 2-4.5 inch lift. These shocks feature advanced adjustability for various driving conditions, including on-road comfort and off-road stability.

Key features include a Fast Adjust Knob with three compression settings, an eight-position Micro Adjust Dial for fine-tuning, and SP2 Mode Adjust for Soft or Performance settings that tune both compression and rebound.



**Figure 1:** Falcon SP2 3.3 Fast Adjust Piggyback Shocks. This image displays four shock absorbers, each featuring a main body, a piggyback reservoir, and red adjustment knobs. The shocks are designed for vehicle suspension systems.

## 2. SAFETY INFORMATION

Always ensure the vehicle is securely supported on jack stands or a lift before beginning any installation. Wear appropriate personal protective equipment, including safety glasses and gloves. It is recommended that installation be performed by a qualified professional.

**Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### 3. COMPONENTS INCLUDED

---

Verify that all components are present before beginning installation. The package should contain:

- 4 Falcon vehicle-specific shocks (SP2 3.3 Fast Adjust Piggyback Shocks)
- All necessary hardware for installation
- Installation instructions (this manual)

### 4. SETUP AND INSTALLATION

---

Installation time is approximately 1.5 hours. This estimate may vary based on experience and available tools.

#### 4.1 Pre-Installation Checks

- Ensure the vehicle is on a level surface and properly secured.
- Confirm all included components match the parts list.
- Review the entire instruction manual before starting.

#### 4.2 Bump Stop Configuration

Proper bump stop configuration is crucial and depends on the shock absorber's collapsed length, tire size, and fender type. Refer to specific instructions provided with your vehicle's lift kit or consult a professional for correct configuration.

Depending on your setup, a 2-inch Bump Stop Strike Pad Extension Kit (Part # 1959500) and/or 0.5-inch Bump Stop Strike Pad Shim Kit(s) (Part # 1959300) may be required.

#### 4.3 General Installation Steps (Summary)

1. Safely lift and support the vehicle.
2. Remove existing shock absorbers.
3. Install the new Falcon SP2 3.3 Fast Adjust Piggyback Shocks, ensuring correct orientation (front shock features unique piggyback design with horizontal reservoir for clearance).
4. Secure all mounting hardware to manufacturer specifications.
5. Verify proper clearance for all suspension components throughout the full range of travel.
6. Lower the vehicle and perform a final inspection.

### 5. OPERATING AND ADJUSTMENT INSTRUCTIONS

---

The Falcon SP2 3.3 Fast Adjust Piggyback Shocks offer multiple adjustment options to fine-tune your vehicle's ride characteristics.

#### 5.1 Fast Adjust Knob

The Fast Adjust Knob provides three distinct compression settings for quick, large damping adjustments:

- **Soft:** For maximum comfort.
- **Medium:** A balanced setting for general driving.
- **Firm:** For increased stability and control.

#### 5.2 Micro Adjust Dial

The middle setting of the Fast Adjust Knob incorporates an eight-position Micro Adjust Dial. This dial allows for more precise tuning between the Soft and Firm settings, enabling fine adjustments to suit specific preferences or terrain.

### 5.3 SP2 Mode Adjust

The SP2 Mode Adjust feature allows you to switch between Soft and Performance modes, tuning both compression and rebound characteristics.

- **Adjustment:** Twist the dial counterclockwise for Soft mode and clockwise for Performance mode. This adjustment is only possible when the shock is fully extended.
- **Soft Mode:** Recommended for rough roads, trails, embedded rocks, expansion joints, and/or winter temperatures. During normal driving, this mode allows a partial bypass of the main piston for less restriction and a softer ride. During aggressive driving, it retains performance tuning for optimal handling.
- **Performance Mode:** Recommended for maximum highway and/or off-road handling, stability, and control with minimal head toss.

The operation of the Fast Adjust Knob and Micro Position Knob remains unaffected by the SP2 Mode Adjust setting.

## 6. MAINTENANCE

---

To ensure the longevity and optimal performance of your Falcon SP2 3.3 Fast Adjust Piggyback Shocks, regular inspection and maintenance are recommended.

- **Inspection:** Periodically check for any signs of damage, leaks, or wear on the shock bodies, shafts, and mounting points. Ensure all hardware is securely tightened.
- **Cleaning:** Keep the shocks clean from dirt, mud, and debris, especially around the shaft and seals, to prevent premature wear.
- **Materials:** The shocks feature 6061-T6 aluminum alloy bodies for wear resistance and heat dissipation, and 3/4-inch induction hardened chrome-plated shafts to resist rock damage and corrosion.
- **Fluid:** These shocks utilize Red Line full synthetic shock oil with a high viscosity index for consistent performance across various temperatures.
- **Serviceability:** Falcon shocks are designed to be serviceable and rebuildable. For factory servicing or rebuilding, contact Falcon customer support.

## 7. TROUBLESHOOTING

---

If you experience issues with your Falcon SP2 3.3 Fast Adjust Piggyback Shocks, consider the following:

- **Unusual Noises:** Check all mounting hardware for proper torque. Inspect for any contact between the shock body and other vehicle components.
- **Poor Ride Quality:** Verify that the Fast Adjust Knob, Micro Adjust Dial, and SP2 Mode Adjust settings are appropriate for your driving conditions and preferences. Ensure bump stop configuration is correct for your lift and tire size.
- **Leaking Shocks:** A small amount of oil residue is normal. However, significant oil leakage indicates a seal failure. Contact Falcon customer support for assistance.
- **Adjustment Issues:** Ensure the shock is fully extended when attempting to adjust the SP2 Mode Adjust.

For persistent issues, it is recommended to consult a certified automotive technician or contact Falcon customer support.

## 8. SPECIFICATIONS

---

Feature	Detail
---------	--------


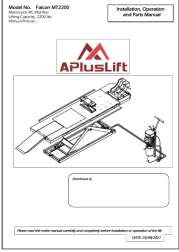
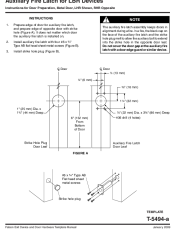
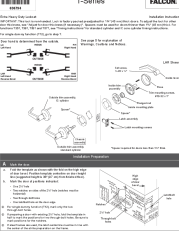


Feature	Detail
Brand	Falcon
Model	JLU 4-Door: Falcon SP2 3.3 Fast Adjust Piggyback Shocks (2-4.5" Lift) - All 4
Item Model Number	11-02-33-400-200
Manufacturer Part Number	11-02-33-400-200
ASIN	B07WW1448L
UPC	843885049975
Vehicle Service Type	Jeep Wrangler (JLU 4-Door)
Lift Compatibility	2-4.5 inches
Auto Part Position	Rear (and Front, as it's a set of 4)
Style	Compression, Piggyback
Material	6061-T6 Aluminum Alloy
Exterior Finish	Machined
Item Weight	46.3 pounds (total package)
Product Dimensions	37 x 27.5 x 10 inches (package)
Shock Body Diameter	2.25 inches
Shaft Diameter	3/4 inch
Damping Technology	Volume Optimized Damping (VOD), Digressive linear piston and base valve technology
Oil Type	Red Line full synthetic shock oil
Corrosion Resistance	1,000-hour salt spray test on hardware

## 9. WARRANTY AND SUPPORT

Falcon Performance Shocks are designed, engineered, and assembled in-house from domestic and globally sourced components.

This product comes with a **3-year warranty**. For warranty claims, technical support, or service inquiries, please contact Falcon customer service. Keep your proof of purchase for warranty validation.

### Related Documents - 11-02-33-400-200

	<p><a href="#">Falcon Locks Catalog: High-Quality Door Security Solutions</a></p> <p>Explore the comprehensive Falcon Locks catalog, featuring a wide range of ANSI Grade 1 &amp; 2 cylindrical and mortise locks, deadbolts, and auxiliary hardware. Discover RU/RW, T, X, B, W, and MA series for commercial, institutional, and residential applications.</p>
	<p><a href="#">Falcon MT2200 Motorcycle Lift: Installation, Operation, and Parts Manual</a></p> <p>This manual provides comprehensive instructions for the installation, operation, and maintenance of the Falcon MT2200 Mid Rise Motorcycle Lift. It covers safety guidelines, technical specifications, parts lists, and assembly details for the 2200 lbs capacity lift.</p>
	<p><a href="#">Falcon Auxiliary Fire Latch for LBR Devices Installation Guide (T-5494-a)</a></p> <p>Detailed installation instructions and preparation guide for the Falcon Auxiliary Fire Latch for LBR Devices (Model T-5494-a) on metal doors. Includes critical dimensions and fire safety notes.</p>
	<p><a href="#">Falcon T-Series Extra Heavy Duty Lockset Installation Guide   Step-by-Step Instructions</a></p> <p>Detailed installation instructions for the Falcon T-Series Extra Heavy Duty Lever Lockset. Includes door preparation, lock assembly, strike installation, and timing adjustments.</p>
	<p><a href="#">Falcon Door Controls Catalog: SC, OHC100, and 8200 Series</a></p> <p>Comprehensive catalog detailing Falcon door closers and automatic operators, including the SC70A, SC80A, SC60A, SC90A series, OHC100 overhead concealed closers, and 8200 series automatic operators. Features, specifications, installation diagrams, arm types, accessories, and ordering information are provided.</p>
	<p><a href="#">ZTE MU5001 5G Router User Manual</a></p> <p>Comprehensive user manual for the ZTE MU5001 5G Router by Falcon, detailing setup, operation, technical specifications, and troubleshooting for reliable 5G internet connectivity.</p>