

Touring Shock Installation





ADVISORIES

Installation should be performed by a certified motorcycle technician. Improper installation or suspension adjustment may result in damage to the motorcycle, suspension components, or personal injury. Replacing the original equipment suspension will significantly affect the handling, ride quality, and responsiveness of the motorcycle. Proper suspension setup is critical to achieving optimum performance, comfort, and safety. Refer to the suspension tuning guide and adjust preload, compression damping, and rebound damping settings as applicable for the rider's weight, passenger and cargo load, and intended riding conditions. After installation, verify that all fasteners are properly torqued, all suspension components move freely throughout their range of travel, and all hoses and wiring are routed to prevent interference, pinching, or abrasion. Failure to follow these instructions may result in reduced vehicle control, component damage, or serious injury.

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RECOMMENDED TOOLS

Motorcycle center jack
Ratchet
3/4" Socket
1/2" 12 Point Socket
3/16" Hex Socket
5/32" Hex Socket
Torque Wrench(s) **(6-75 ft-lbs)**
Tape Measure
Red Loctite®
Blue Loctite®

INSTALLATION

Important:

Read these installation instructions completely and ensure you fully understand them before beginning installation. Refer to the factory-authorized service manual for any procedures or torque specifications not specifically covered in these instructions.

1. Prepare the motorcycle

Park the motorcycle on a level surface.

Securely position the motorcycle on a center jack.

Raise the motorcycle until there is no load on the rear suspension. **(fig. 1)**



(fig. 1)

2. Remove the Saddle Bags

3. Remove Original Shock

Remove the upper and lower shock absorber fasteners on either side of the motorcycle and discard. **(fig. 2)**

Carefully remove the shock absorbers from the motorcycle and discard.



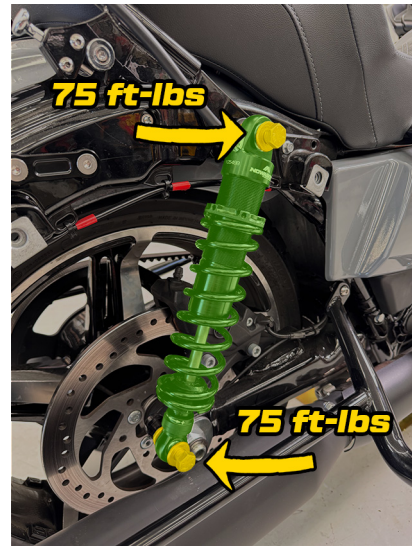
(fig. 2)

4. Install Nowaskey Rear Shocks

Apply Red Loctite® to the provided fasteners.

Install shocks with the provided hardware. (fig. 3)

Torque the upper and lower shock absorber fasteners to **75 ft-lbs**.



(fig. 3)

FOR REMOTE RESERVOIR SHOCKS W/ OG MOUNT ONLY

6. Install the Reservoir Mount

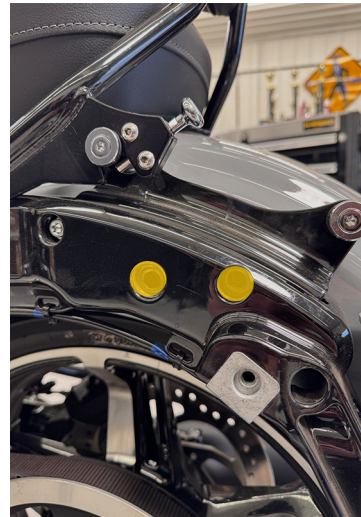
Remove the two (2) strut bolts on either side of the motorcycle. (fig. 4)

Apply Blue Loctite® to all fasteners.

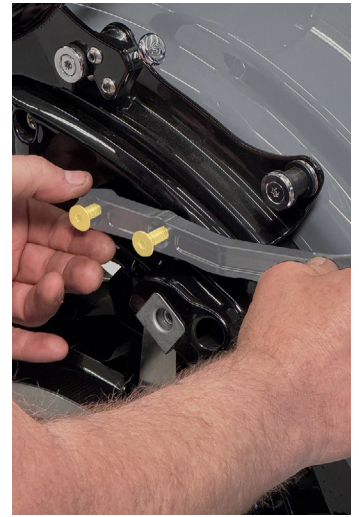
Install the reservoir mount arm with the provided **5/16" -18** hardware (**long spacer towards rear**)
Torque the fastener to **22 ft-lbs**. (fig. 5)

Install the reservoir clamp to the reservoir mount arm using the provided **5/16" -18** hardware.
Torque the fastener to **22 ft-lbs**. (fig. 6)

Install the remote reservoir in the clamp utilizing the provided shim and **1/4" -20** hardware. (fig. 7&8)
Torque the fastener to **76 in-lbs**.



(fig. 4)



(fig. 5)



(fig. 6)



(fig. 7)



(fig. 8)

SUSPENSION SETUP

Measuring Rider Sag

With the rider seated on the motorcycle in normal riding position and load, measure the distance from the center of the top mounting bolt to the center of the bottom mounting bolt.

The sag is the difference between this measurement and the length of the shock. **(fig. 9)**

Target Sag Setting

The Rider-loaded measurement should be **1.0 inch (25mm)** less than the length of the shock. **(the rider-loaded sag measurement of a 12" shock should be 13/16" less than the length of the shock)**

If the rider measurement is 1.0 inch (or 13/16 inch on a 12" shock) less than the length of the shock, no preload adjustment is required.

If the measurement differs from this value, adjust the preload as described below.



(fig. 9)

Adjusting Preload

Rotate the preload nut as required: **(fig. 10)**

Tighten the preload nut to increase preload and reduce sag.

Loosen the preload nut to decrease preload and increase sag.



(fig. 10)

ENJOY THE RIDE