

TOURING CARTRIDGE INSTALLATION

2014+

NOWASKEY
EXTREME PERFORMANCE

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.

LIMITED LIFETIME WARRANTY

All Nowaskey Extreme Performance products are guaranteed to the original retail purchaser only that the Products furnished hereunder shall be free from material defects in material and workmanship under normal use and service, when properly installed, maintained and used for the purposes for which it is designed. Warranty coverage is limited lifetime. In the event warranty service is required, notice of any such alleged defect must be given to NEP within ten (10) days after the discovery thereof, and provided that inspection by NEP confirms the existence thereof to the sole satisfaction of NEP. Instructions for filing a warranty claim can be found at https://www.nowaskey.com/warranty/. Coverage terminates if the original retail purchaser sells or otherwise transfers or alters the Products. This limited lifetime warranty does not cover (i) normal wear of parts: (ii) road hazards, abuse, neglect, accidents, collisions, fire, theft, freezing, vandalism, riot, explosion, or objects striking the Product: (iii) misusing the Products such as driving over curbs, or overloading; (iv) altering, disassembling, tampering or modifying the Product; (v) acts of God, natural disasters, force majeure events, and other similar causes beyond the reasonable control of NEP; or (vi) damage due to external causes, including accident, abuse, misuse, neglect, improper storage, modification, or any services not performed by NEP or its authorized representatives. Further, this warranty is voided if the Products are used for any form of racing. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, IS LIMITED TO THE DURATION OF THIS LIMITED WARRANTY.
NEP DISCLAIMS ALL OTHER WARRANTIES, CONDITIONS, OR REPRESENTATIONS, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE. NEP SHALL NOT BE LIABLE FOR ANY INDIRECT, CONSEQUENTIAL, INCIDENTAL, AND SPECIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, ANY LOSS OF PROFIT, LOSS OF USE, DOWNTIME, LOSS OF PRODUCTION OR LOSS OF DAMAGE TO RAW MATERIALS OR FINAL PRODUCTS) OR FOR ANY CLAIM BROUGHT AGAINST THE PURCHASER BY ANY OTHER PARTY. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to a particular original retail purchaser. NEP's exclusive liability and original retail purchaser's exclusive remedy under this limited warranty is limited to replacement at NEP's factory or warehouse. This limited lifetime warranty is void unless the original retail purchaser completes the online warranty registration at https://www.nowaskey.com/warrantyregistration/ within thirty (30) days from the date of purchase. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. TO THE EXTENT PERMITTED BY LAW, THE WARRANTIES AND REMEDIES IDENTIFIED ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, REMEDIES AND CONDITIONS, WHETHER ORAL OR WRITTEN, STATUTORY, EXPRESS OR IMPLIED. AS PERMITTED BY APPLICABLE LAW. THIS WARRANTY IS NOT ASSIGNABLE TO ANY PERSON OTHER THAN THE ORIGINAL BUYER AND IS ONLY VALID TO THE PERSON TO WHOM THIS WARRANTY IS ORIGINALLY GRANTED AND WHOSE NAME APPEARS ON THE ORDER.

Recommended Tools

Center Jack
Ratchet(s)
Torque Wrench(es)
3/32" Hex Key
1/4" Hex Socket
6mm Hex Socket
12mm Extended Hex Socket
19mm Hex Socket
10mm Twelve (12) Point Socket
49mm Fork Seal Driver
Anti-Seize®
Blue Loctite®



Click ***HERE*** to see how WE install 49mm Nowaskey Cartridges

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. Lift Your Motorcycle

Using an approved motorcycle jack, safely lift the front of your motorcycle until the front wheel is off the ground.
Before proceeding with service ensure the motorcycle is secured to the jack and stable.

2. Remove Fairing / Bezel

Refer to your motorcycles factory service manual to remove any fairings, bezels, or trim that may need to be removed to gain access to the upper triple tree.



3. Remove Front Brake Calipers

Remove the two (2) bolts on either side of the motorcycle securing the front brake calipers to the lower fork legs.

Secure the front brake calipers away from the lower legs.

4. Remove Front Wheel

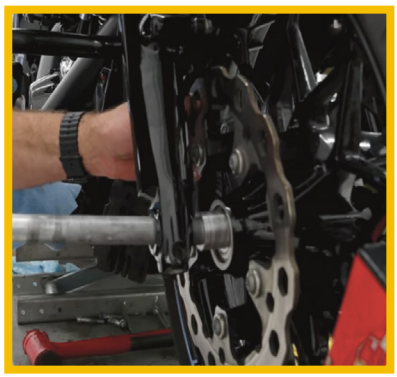
Remove the axle pinch bolt.

Remove the axle from the lower fork legs.

ensure to keep track of ABS sensor and spacer orientation

Remove the front wheel from front of the motorcycle.





5. Remove Front Fender

Remove the four (4) bolts retaining the front fender.

Carefully remove the front fender from between the fork legs and place asside.



6. Remove Fork Legs

Loosen the top triple tree pinch bolts.

Hold the fork leg and loosen the lower triple tree pinch bolts until the fork tube slides out of the trees.





7. Disassemble Fork Legs

Remove the damper tube bolt from each fork leg, draining the oil from each leg and properly dispose of the oil at an approved EPA certified collection site.

Carefully remove the top cap from the fork tube.
WARNING: The top cap will be under sprung pressure.

Remove the internal components from the tube.

Remove the outer seal, and inner seal clip.

Using the “slide-hammer method” pull the tube outward in a quick, hard motion until the seal and tube are free from the lower leg.

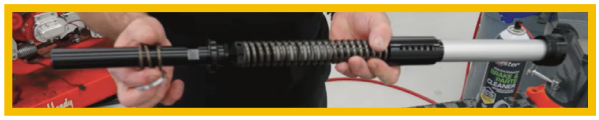
Ensure all components are removed from the lower leg and the fork tube. Clean the fork tube and lower leg thoroughly. *Inspect for any signs of damge or significant wear on the components.*





8. Assemble Fork Legs / Tubes

Utilizing the provided shock oil, lubricate the bushings and install the bushings on the fork tubes.



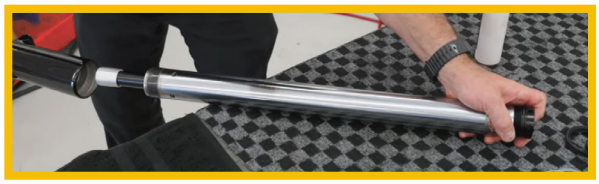
Apply a thin layer of fork oil to the fork cartridge.

Ensure the top out spring is slid over the damper tube and slide the cartridge assembly into the fork tube.



The cartridge should not require too much pressure to isntall, nor should it fall all the way into the tube. The length of fork tube and fork tube manufacturer play a critical role in setting proper pre-load on the cartridge.
With any concerns please contact Nowaskey Extreme Performance or an approved Nowaskey Suspension dealer.

Install the damper tube stop over the damper tube.



Slide the fork tube assembly into the lower fork leg.

Install the damper tube bolt with a new crush washer.
Torque the fastener to **30-37 ft-lbs**.

Lubricate the guide bushing and slide over the fork tube.

Slide the guide bushing washer over the fork tube.
Beveled edge facing up.





Using a 49mm fork seal driver, drive the bushing into the fork leg until it bottoms out.

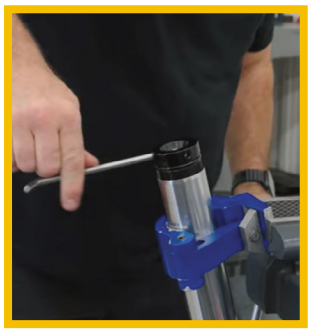
Lubricate the inner fork seal and slide over the fork tube.

Use a 49mm fork seal driver and drive the seal in until it is bottomed out.

Install the seal clip in the groove.

Install the outer dust seal.





Through the top of the fork tube, pour in one bottle of the provided 3 weight shock oil. (150cc)

Pump the fork tube in an up and down motion to bleed air out of the fork assembly.

Applying pressure to the cartridge top cap, and thread the cap into the tube by hand.

Clamp the tube in an tube clamp and tighten the top utillizing the provided tool.

9. Install Fork Assemblies

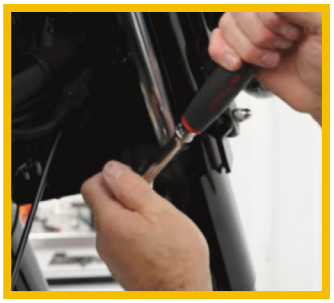
Slide the fork assemblies into the triple trees.

Snug a pinch bolt of your choice to hold each fork leg in place.

Measure the protrusion at the upper triple tree.
The top caps should protrude **4mm** *or* **5/32"** *from the top triple tree. Adjust as needed.*

Torque the upper pinch bolts to **18 ft-lbs**

Toruqe the lower pinch bolts to **18 ft-lbs**
Alternate between bolts to ensure they are all torqued to specification.









10. Install Wheel

Place the wheel between the fork legs.

Ensure spacers and abs sensor are orientated in the correct position.

Apply a thin layer of anti-seize® to the axle.

Install the axle and torque to **70-75 ft-lbs**.



11. Install Fender

Apply Blue Loctite® to the fender mounting hardware.

Install the front fender and snug the bolts.

Ensure fender alignment is correct and torque the fasteners to **16-20 ft-lbs**.



12. Install Brakes

Place the brake calipers over the brake rotors.

Apply Blue Loctite® to the caliper mounting bolts.

Torque the fasteners to **38 ft-lbs**.

Pump the front brake lever until it is solid before moving the motorcycle.



13. Install Fairing / Bezel

Refer to your motorcycles factory service manual to install any fairings, bezels, or trim that may have been removed in ***step 2***.

ENJOY THE RIDE!