



INSTALLATION INSTRUCTIONS

Fork Spring Kit Harley-Davidson™
2016-Later* XL Models with 49mm Forks

ATTENTION!

Statements in these instructions that are preceded by the following words are of special significance:



This symbol means there is the possibility of injury to yourself or others.



This symbol means there is the possibility of damage to the vehicle.

NOTE:

Information of particular importance has been placed in italics.



Changing the chassis and / or suspension on any vehicle will change the handling characteristics of that vehicle. Care should be taken when operating the vehicle with such modifications while getting accustomed to the new handling characteristics.

IMPORTANT NOTICE

Caution: Removing and replacing fork springs must be performed by a qualified mechanic and according to steps outlined in a professional workshop manual that relates to your particular make, model and year motorcycle.

The vehicle must be securely blocked to prevent it from dropping or tipping when the forks / fork springs are removed. Failure to do so can cause serious damage and / or injury.

Progressive Suspension Fork Springs are designed to work with the OEM (Original Equipment) forks. Use of this product on any forks other than OEM may produce an unsatisfactory ride and void the warranty.

Recommended Tools

HD-41177 Fork Tube Holder or Equiv.
HD-45966 Fork Spring Compressing Tool or Equiv.
HD-45966-2 Fork Spring Compressing Tool Collar or Equiv.

(Part numbers shown are for Harley-Davidson Tools)

INSTALLATION

- Read all the instructions carefully before installing this kit on your motorcycle. Use your factory authorized service manual as a reference while installing this kit.

LIFETIME LIMITED WARRANTY

Progressive Suspension warrants to the original purchaser this part to be free of manufacturing defects in materials and workmanship with a lifetime limited warranty. In the event warranty service is required, you must call Progressive Suspension immediately with a description of the problem.

If it is deemed necessary for Progressive Suspension to make an evaluation to determine whether the part is defective, a return authorization number will be given by Progressive Suspension. The parts must be packaged properly so as to not cause further damage and returned prepaid to Progressive Suspension with a copy of the original invoice of purchase and a detailed letter outlining the nature of the problem. If after the evaluation by Progressive Suspension the part was found to be defective it will be repaired or replaced at no cost to you. If we replace it, we may replace it with a reconditioned one of the same design.

Progressive Suspension shall not be held liable for any consequential or incidental damages resulting from the failure of a Progressive Suspension part. Progressive Suspension shall have no obligation if a part becomes defective as a result of improper installation or abuse.



TECH: 714.523.8700

WWW.PROGRESSIVESUSPENSION.COM



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INSTALLATION (CONT.)

NOTE:

The left and right forks have different internals on these models.

- Support and lift the motorcycle securely so the front wheel is off the ground. The balance point is toward the front of the engine



The right fork cap is under high spring force, care must be taken when removing the fork cap!

- Remove the fork caps.
- Remove the OEM fork spacer, washer & spring from the right fork, and the OEM spring from the left fork according to instructions contained in your factory authorized service manual. The Progressive Suspension fork spring kit is a direct replacement of your OEM springs. Replace the spring from the left fork, which is tapered at each end, with the Progressive Suspension spring which is also tapered at each end along with the aluminum spacer. The right fork will use the supplied PVC spacer (you may need to cut the PVC spacer to the recommended length of 89mm (3.5")) and non-tapered fork spring. You must also re-use the OEM washer between the spacer and fork spring in the right fork.

NOTE:

For maximum performance we highly recommend that the forks be disassembled and thoroughly cleaned, inspected and new Progressive Suspension Standard (Type E) fork oil installed.

- Before installing the new springs & pre-load spacers, it is crucial that you make sure you've installed the proper fork oil and the oil level is correct. We recommend Progressive Suspension Standard (Type E) fork oil. To check the fork oil properly, you must have the springs and spacers removed, cycle the forks & cartridge several times to purge any trapped air and then completely compress the forks and cartridge. You then measure from the top of the fork tube to the oil level - the required measurement is 145mm in the left fork and 160mm in the right fork. Add or remove fork oil to achieve these measurements.



NEVER ADD TOO MUCH OIL RESULTING IN A MEASUREMENT LESS THAN 145MM IN THE LEFT FORK AND 160MM IN THE RIGHT FORK WHEN USING THIS SPRING KIT.

- After confirming the fork oil level in the **Left Fork (145mm)**, install the supplied fork spring with tapered ends (tighter coils down) onto the cartridge, then the supplied aluminum spacer with the concaved end covering the top of the fork spring. Secure the new spring and spacer by using the OEM nut, retaining clip and washer - essentially replacing the OEM spring with the supplied Progressive Suspension spring and Aluminum spacer (see illustration). Reinstall the fork cap being certain to torque it and the cartridge nut to the factory specification noted in your factory authorized service manual.
- After confirming the fork oil level in the **Right Fork (160mm)**, install the other supplied fork spring (tighter coils down), the OEM washer and the supplied PVC pre-load spacer (**you may need to cut the PVC spacer to the recommended length of 89mm (3.5")**), into the forks in the same manner you would install the OEM components per your factory authorized service manual - essentially replacing the OEM pre-load spacer and spring with the supplied Progressive Suspension components (see illustration). Reinstall the fork cap being certain to torque it to the factory specification noted in your factory authorized service manual.
- Reinstall the forks and any other components previously removed per a factory authorized service manual. Remove motorcycle from lift and re-check all fasteners for proper tightness per your factory authorized manual.
- Technical Info: Our technical staff will assist you if you have any problems or question. Call (714) 523-8700 from 8am to 4pm Pacific time.
- The operator must use extreme caution when operating a modified motorcycle, particularly while getting familiar with its altered handling characteristics and ground clearance.

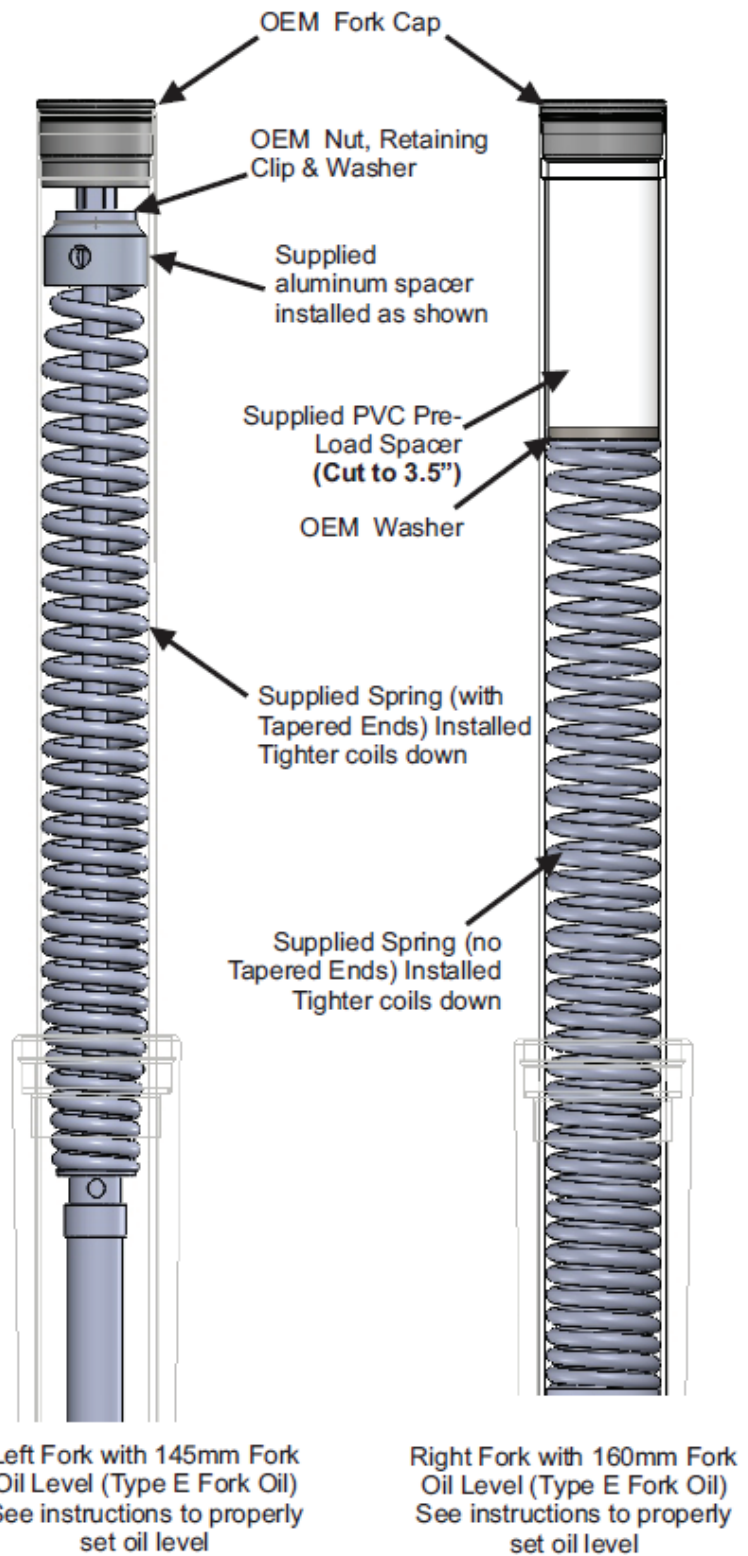




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FINE TUNING

FORK OIL: Though we recommend using Type E (10wt) fork oil, oil viscosity can be changed to alter damping. Heavier oil to increase damping. Light oil to decrease damping. Change in 5 weight increments (i.e. from 10 weight to 15 weight). Oil viscosity will have more effect on rebound damping than compression damping, too high a viscosity can create harshness on sharp edge bumps. The oil level also affects the ride, too high an oil level and the forks will feel stiff, too low an oil level and the forks will bottom and feel soft or dive excessively. As stated previously, when using this spring kit **NEVER adjust the fork oil level to produce a measurement of less than 145mm in the Left Fork and 160mm in the Right Fork - measured with the fork springs & spacers removed, forks & cartridge compressed, from the top of the fork tube - or damage will occur.**



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