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## BILLET FORK EXTENSION KIT (#962842 & 962829) INSTALLATION INSTRUCTIONS

The Billet Fork Extension Kit is designed to extend second generation (08-18) Suzuki Hayabusa forks. When using extended Hayabusa forks and Brock's Performance triple tree clamp, the user is easily able to adapt upside down (inverted) sportbike forks to Harley-Davidson motorcycles.

### Check Package Contents:

#### The Package Contents Include:

1. Two (2) Upper Fork Extensions
2. Two (2) Lower Fork Extensions
3. Two (2) Upper Fork Extension O-rings
4. Two (2) Replacement Copper Washers



If your package contents differ, please contact Brock's Performance at 937-912-0054.

**Note:** See OEM Service Manual for 'front fork assembly' removal and installation instructions.

### Installation Notes:

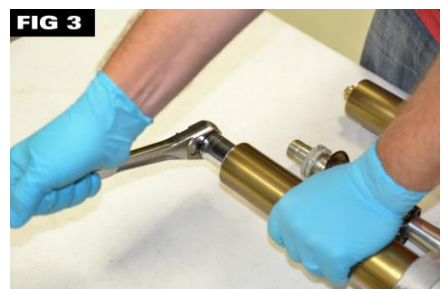
- Installation should be performed by a [certified suspension technician](#).
- These instructions show 3-inch extensions being installed. Follow the same procedure for 2-inch extensions.
- Brock's Performance recommends replacing fork oil during this installation. Approximate total fill volume (per fork tube) is 18.63 oz. (550 mL) for 3 inch extensions and 17.82 oz. (527 mL) for 2 inch extensions.

### Installation Instructions:

1. Remove the damper rod bolt and copper washer from the lower fork tube, using an 8mm hex key. (Fig 1)
2. Place a clean drain pan under the lower fork tube and drain fork oil. (Fig 2)
3. Unscrew upper fork cap using a 24mm socket. (Fig 3)
4. Remove fork cartridge assembly. (Fig 4)

**Note:** Fork cartridge disassembly is not required (unless replacing spring). Heavier fork spring replacements are available at [BrocksPerformance.com](http://BrocksPerformance.com)

5. Place fork cartridge assembly in a soft jaw vice. Install lower fork extension. Torque lower fork extension to 16 lb-ft (22 N·m). (Fig 5)
6. Apply general purpose grease to the upper fork extension o-ring and upper fork cap o-ring.
7. Screw upper fork extension into upper fork tube. Hand tighten only. (Fig 6)
8. Reinstall fork cartridge assembly. (Fig 7)
9. Install damper rod bolt from step 1 with the replacement copper washer. Torque to 16 lb-ft (22 N·m). (Fig 8)



10. If reusing existing fork oil, pour fork oil drained in step 2 into a measured cup. Add necessary additional volume for the extensions and refill fork tube. (Fig 9)

- 2 Inch – additional 1.62 oz. (48 mL) per tube  
Approximately 18.63 oz. (550 mL) total per tube
- 3 Inch – additional 2.43 oz. (72 mL) per tube  
Approximately 17.82 oz. (537 mL) total per tube

11. Check fork oil level by height using a fork oil level gauge (fork fully compressed). To maintain stock oil levels, height should be 2.64 inches (67 mm) from the top of the upper fork extension. (Fig 10)

**Note:** Actual fluid volumes will vary depending on rider preferences. Higher viscosity (thicker) oil and higher oil levels equal a stiffer suspension. Adjust as needed.

12. Tighten upper fork cap to the upper fork extension.  
Torque to 16 lb-ft (22 N·m). (Fig 11)
13. Repeat procedure for second fork tube.



**WARNING: Chassis adjustments can alter the handling characteristics of any machine, and a lowered vehicle is more likely to experience obstacle and/or cornering clearance contact problems.**

**CONGRATULATIONS! INSTALLATION IS COMPLETE.**

**ALL BROCK'S PERFORMANCE PRODUCTS ARE DESIGNED FOR CLOSED-COURSE RACETRACK USE ONLY!**

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**BrocksPerformance.com > Brock's Support > Customer Service > Terms and Conditions**

For Questions and Comments:

**BrocksPerformance.com > Brock's Support > Customer Service > Contact us or call 937-912-0054**