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## INSTALLATION INSTRUCTIONS FOR BROCK'S PERFORMANCE FZ-09 (14-) ALIEN HEAD OR SHORTMEG FULL EXHAUST SYSTEM

The Alien Head or ShortMeg System for the FZ-09 (14-) is a high performance 3-into-1 exhaust system that replaces the stock head pipes, catalytic converter, and muffler.

### Step 1: Check Package Contents:

The Alien Head or ShortMeg system is shown in (Figure 1).

#### The Package Contents Include:

1. Three (3) Head Pipe Mounting Flanges
2. One (1) Head Pipe Assembly (3-into-1)
3. One (1) Mid-Pipe
4. One (1) Alien Head or ShortMeg Muffler
5. One (1) Package Containing Springs, Spring Puller, PAIR Valve Block-Off Cap, Muffler-Mounting Bracket and Required Hardware
6. One (1) Tube of Permatex™ Ultra Copper® Sealant
7. One Packet Containing Instructions and Supplemental Information



If any of the parts are missing, contact Brock's Performance.

*Note: A slight ovaling of the tubing can occur during the manufacturing process, this is normal. A twisting motion may be required during assembly/disassembly.*

### Step 2: Pre-Assemble Head Pipe and Mid-Pipe to Ensure a Proper Fit Between All Parts:

The pre-assembled system is shown in (Figure 2). Pre-assembly helps to detect any potential shipping damage and ensures that all parts fit properly. Apply WD-40® to the pipe joints to ease assembly, adjustment and especially disassembly.



### Step 3: Remove the OEM Exhaust System

**System:** Start by removing the O2 sensor from the OEM head pipe (Location 1) shown in (Figure 3). Next you will loosen the nuts on all three head pipes (Location 2) shown in (Figure 3), but do not completely remove. The muffler/catalytic converter has two bolts holding it in place. Remove the two bolts (one on each side) (Location 3) shown in (Figure 3) and then finish removing the head pipe nuts. You can now remove the complete OEM exhaust assembly.



**FIG 3**

### Step 4: Install the Head Pipe

**Mounting Flanges:** Install the three head pipe mounting flanges, reusing the OEM nuts and gaskets. Do not completely tighten the nuts. Leaving them finger tight will allow easier adjustment when the head pipe is fitted. The nuts will be fully tightened after the head pipe is installed.

**Step 5: Install the Head Pipe and Mid-Pipe Assembly:** Install the head pipes onto the three head pipe mounting flanges. With the head pipe assembly now installed onto the mounting flanges, tighten the mounting flange nuts enough to keep the flanges from moving. Remove the head pipe assembly and torque the flange nuts. Do not over tighten. Max recommended torque is 10 ft-lb.

Prior to final installation of the head pipes, apply a very thin layer of Permatex™ Ultra Copper® to the inside of each head pipe, no further than 1/2" into the pipe. This will ensure a high temperature seal is created. Be careful to avoid contact with the radiator while installing the head pipes. Install head pipes onto flanges as far as they will go, then connect the springs to spring tabs on the head pipes using the supplied spring puller. You can now connect the mid-pipe onto the head pipes using the supplied springs to secure it in place. 'Wiggling' the entire assembly with the springs installed will pull the pipes into their final location. Reinstall the O2 sensor.

### Step 6: Install the Muffler Mounting Bracket

To install the muffler mounting bracket you will need to unbolt the rear brake side rear set. It is held on with a nut (Location 1) and bolt (Location 2) shown in (Figure 4). Once you have those removed, pull the rear set back and also remove the spacer that the rear set attaches to. This is held on with a nut (Location 3) and a hex head screw (Location 4) shown in (Figure 4). You will then put the muffler-mounting bracket between the spacer and the frame lining up the 3 bolt holes, then reinstall the spacer. Finally put the larger supplied spacer between the top rear set bolt hole at (Location 1) and the frame, then reinstall rear set.



**FIG 4**

**Step 7: Install Muffler:** Install the muffler onto the mid-pipe. Adjust as necessary to ensure that the mounting bracket aligns with the muffler-mounting tab. Insert the supplied bolt/washer through the muffler tab and mounting bracket with the washer on the front side and hand tighten the nut on the backside. Install the spring holding the muffler to the collector. 'Wiggle' the system to insure fitment and then tighten the bolt holding the muffler to the mounting bracket. Torque the muffler-mount bolt to 34 N-m or (25 ft-lb).

**Caution: Failing to follow the steps below may result in damage to your bike!**

**DO NOT START BIKE UNTIL YOU HAVE ENSURED A MINIMUM ¼-INCH CLEARANCE BETWEEN THE EXHAUST COMPONENTS AND ALL BODYWORK/PARTS.**

Failure to ensure proper clearance may result in burned plastic. Brock's Performance exhaust systems are designed to provide appropriate clearances. If minimum clearances are not obtained, remove the springs on the exhaust system and adjust until proper clearance is achieved. **It is also recommended that the entire exhaust system be wiped down with rubbing alcohol to remove oil and fingerprints before starting the bike. This will help prevent tarnishing of the finish after the bike has been started and the exhaust is heated up.**

**CONGRATULATIONS! INSTALLATION IS COMPLETE.**



**All Brock's Performance products are designed for closed-course racetrack use ONLY!**

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