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## BMW S1000RR (10-14) AIR SHIFT CYLINDER MOUNTING KIT INSTALLATION INSTRUCTIONS

The Air Shift Cylinder Mounting Kit is designed to bolt onto S1000RR models with no frame modifications required. This mount gives the flexibility required by the air cylinder for quick and smooth shifting.

### Check Package Contents:

*The Package Contents Include:*

1. One (1) Air Cylinder Mount
2. One (1) Adapter Nut
3. One (1) Mount Bushing
4. One (1) Air Cylinder Bushing
5. One (1) Socket Head Bolt
6. Two (2) Button Head Bolts
7. One (1) Washer



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

*For additional installation support please refer to the OEM service manual.*

This kit is designed to be used in conjunction with Brock's Air Shifter Cylinder ([#561230](#)), Air Shifter Lever Clamp ([#561295](#)), and Air Shifter Cylinder Rod Clevis ([#561256](#)).

### Instructions:

1. Support the bike using a wheel stand or lift.
2. Support the upper rear engine mount bolt on the right side, remove the OEM nut from the left side (Fig 1). This nut will not be reused.
3. Install Washer and Adapter Nut in place of the OEM nut. Torque to 41 lb-ft (56 N·m) (Fig 2).

**Note:** The engine mount bolt head must remain in the slot.

4. Insert the Mount Bushing and Socket Head Bolt into the Air Cylinder Mount (Fig 3).
5. Install the Air Cylinder Mount assembly onto the Adapter Nut. Torque the Socket Head Bolt to 50 lb-in (5.6 N·m) (Fig 4).

**Note:** The air cylinder mount will spin freely after installation. There will be slight play in and out. This is necessary for air cylinder operation.

6. Install the [Air Shifter Lever Clamp](#) (not included).
  - a. Install the clamp over the shift lever and secure with two (2) screws (Fig 5).
7. Install Brock's [Air Shifter Cylinder](#) (not included).
  - a. Install the jam nut and clevis end onto the Air Shifter Cylinder.
  - b. Slide the Air Cylinder Bushing through the upper bronze bearing in the Air Cylinder.
  - c. Secure using two (2) Button Head Bolts (Fig 6).

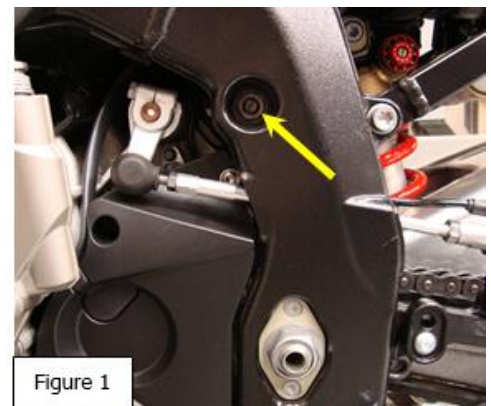


Figure 1

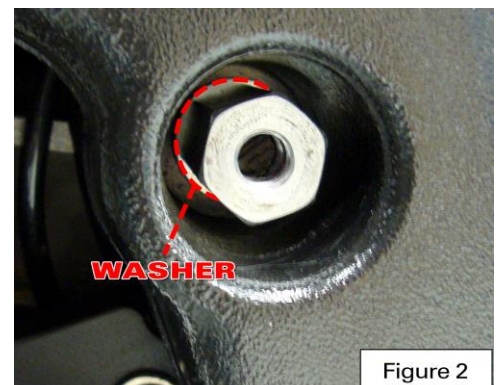


Figure 2

8. Connect the clevis end to the Air Shifter Lever Clamp and secure with the pin and two (2) retaining rings (Fig 7).
9. Check for proper shift lever travel.
  - a. Recommended to be 3/16 – 1/4 inch (4.8 – 6.3 mm) from bottoming out the air cylinder.
  - b. With the engine off and rear wheel elevated, rotate the tire and shift through all gears. If there is a loss of travel or any binding **DO NOT** operate the bike (Fig 8).



Figure 3



Figure 4

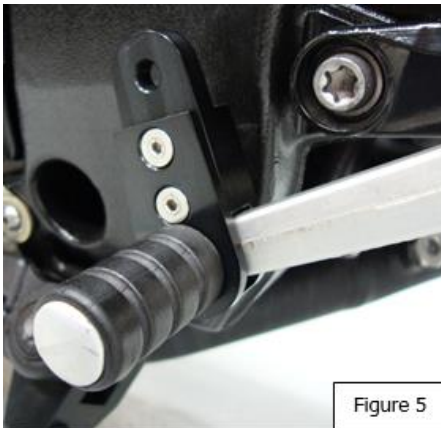


Figure 5



Figure 6



Figure 7

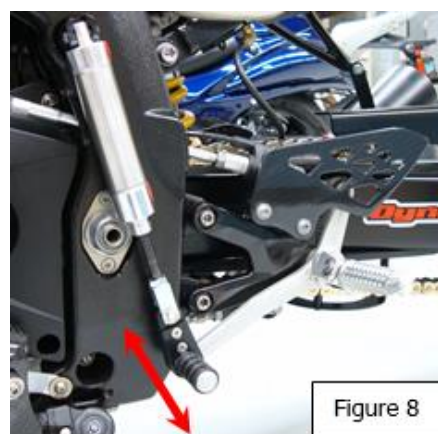


Figure 8

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

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