



Revision: 4.1 - 04/05/2010

Install Time: 1 Hour

We highly recommend the use of Blue Loctite® on all fasteners and mounting hardware. Our installation guide provides a basic outline on the installation of our products. Further tuning and/or fitment may be required and we suggest a professional technician be utilized. Barons bears no responsibility on installation costs associated with this product. 2009 Barons Custom Accessories

**INCLUDED IN THE KIT:**

(2) Mounting Arm	(1) M6 x 80mm x 1.0 Socket Head Cap Screw SS
(2) 20mm Diameter x .76" Aluminum Stepped Spacer	(1) Aluminum Manifold
(2) M6 x 1.0 x 35 Chrome Socket Cap Head Screw	(2) 1/4 28 x 1 13/16" Hex Bolt
(2) M6 Chrome Lock Washer	(2) Aluminum Filter Spacer
(2) M6 Chrome Fender Washer	(2) 1/4" Lock Washer
(3) M5 x 10mm Button Head Allen Screw SS	(1) Nylon Nipple Pre-installed
(2) M6 x 1.0 x 16mm Button Head Screw Chrome	(1) Slimline Air Filter
(2) M6 Serrated Flange Nut	(1) Raincoat Filter
(1) M5 x 12 Socket Cap Head Screw SS	(1) Billet BAK Cover
(1) Spacer Tube 2.42L x .25 I.D. x .50 O.D.	

**INSTRUCTIONS:**

**READ COMPLETE INSTRUCTIONS BEFORE STARTING INSTALLATION**

**NOTES:** We highly recommend the use of the Blue Loctite® on all fasteners and mounting hardware. It will not be necessary to remove your seat or your fuel tank for this installation.

1. Remove the (2) Bolts at the top of the stock air cleaner to the left and right of the oval rubber hose coming from under the fuel tank.
2. Loosen the hose clamp at the base of the oval rubber hose on the top of the air cleaner.
3. A male barb protrudes from the rear of the air cleaner that inserts into a rubber grommet mounted to the cylinders. Pull the air cleaner away from the cylinders firmly and you will feel the barb release. Now pull the upper section of the air cleaner downward to remove it from the oval snorkel tube from under the fuel tank.
4. Now you can reach to the rear of the box and unplug the electrical lead for the Air Sensor" which sits just about in the middle of the rear of the air cleaner. Now remove the breather hose at bottom of the air cleaner.
5. Set the air cleaner aside and turn it over to access the back. Remove the single bolt that secures the Air Sensor" (This sensor will be installed into the Aluminum Manifold of your new BAK assembly later)
6. Remove the lower mounting arm assembly from the cylinders. (You will not reuse this).
7. Using the (2) Dome head m6 x 15mm screws install the (2) #1 Arms to the rear (the side without the groove) of the backing plate, the shiny/chrome side of the arms should face outward. The smaller of the two holes in each arm is the one you place the screws through. Use the m6 Flange Nuts to secure the bolts at the rear of backing plate. Snug these up but do not tighten fully.

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8. Using the (3) Dome head m5 x 10mm screws attach the aluminum manifold the rear of the backing plate aligning the radius intake hole of the backing plate with the manifold's intake hole. (Use Blue Loctite® on these screws). Note: The oval opening should face upwards towards the fuel tank.
9. Thread the Barbed Nylon Nipple (supplied) into the rear of the aluminum manifold (supplied).
10. Install the "Air Sensor" (previously removed from the stock air box) using the supplied m5 into the manifold, insert the sensor through the manifold and then thread the m5 screw and tighten from the rear.
11. Now mount the partially assembled backing plate to the cylinders and plug the electrical lead into the sensor and you may attach the fresh air hose to the nipple or you may plug the hose and the nipple and not use them. Either way tuning will not be effected. NEXT: Align the upper oval "Male" protrusion from the manifold with the "Female" portion of the rubber snorkel insert then tighten the stock hose clamp. NEXT: Using the (2) stepped black spacers insert the small step into each of the (2) #2 spacer arms then align these with the thread hole at the tops of the cylinders then thread the (2) m6 x35mm Chrome Cap Head Screws (Use Blue Loctite® on these screws). Do not tighten these screws until after step 12.
12. Take the 2.42" Spacer Tube and the M6 x 80mm SS Cap Head bolt and align the tube between the rear of the backing plate and threaded hole in the front right cylinder. Insert the m6 x 80mm bolt (Use Blue Loctite® on these screws) and tighten in place. Now tighten the two upper mount arm screws.
13. Now tighten the m6 x 15mm screws and the flange nuts at the base of the mount arms.
14. Take the slimline air filter and insert it into the filter groove on the backing plate, be sure the grooves in the filter and the backing plate align and seal properly.
15. Install the 1/4" Lock Washers, then the 1/4" Flat Washers on the (2) 1/4-28 x 13/16" Hex Bolts, then insert these through the rear of the backing plate. Install one of the 1 1/4" Aluminum Spacers on each bolt put a drop of Blue Loctite® on the end of the threads. Being sure the filter remains seated/sealed against the filter groove of the backing plate, place cover plate against the filter being sure it slides into the filter groove and seats/seals on the filter groove. (Make sure the Aluminum Spacers stay on the bolts while you do this. (Use Blue Loctite® on these screws) Now get the threads started on each bolt and then tighten them firmly in place.
16. Install the BAK RainCoat and your installation is now complete.

**RECOMMENDATION:** Our testing and evaluation of this kit on our test motorcycles produced a very acceptable air/fuel curve between 12 and 14% and thus did not require any EFI modifier units when run with our BAK and stock or after market exhaust. However, we strongly recommend you have your bikes air/fuel mixture tested at a service facility equipped to do this work.

**NOTE:** Though we make no recommendation for any EFI modifying systems we do not recommend against them and we do recommend proper testing to identify the need if present.

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