

Inverted Series Air Cleaner Kits 1991– Present XL Models

ARB E.O. D 639-7



Thank you for purchasing this Rinehart Racing product. We believe that our products are the they very best available and are engineered to provide a lifetime of use. The Inverted Series air cleaner provides the cleanest installation available. Basic hand tools and a service manual applicable to your model of motorcycle are all that is necessary to complete the installation. If you ride a custom-built bike, please call our technical assistance department and they will be able to recommend the best service manual to use with your motorcycle.

Quantity	Description	Quantity	Description
1	Backing plate with cover plates	6	O-Rings
2	Backing Plate Spacers	2	Gasket
1	Inverted air filter	1	Gasket Spacer
1	Outer Cover Assembly	5-7	10-24x5/8" Socket-heads
2	Banjo Bolts early (2 big hole 91-03)	3	1/4-20 3/4" Socket-heads
2	Banjo Bolts Late (Small hole 04– present)	2	Oil Vent Tubes

1 Oil Reservoir
 1 Oil Reservoir Gasket
 2 8/32 x 3/4 allen heads
Additional Item Needed
 #242 Blue Thread Locker
 grease

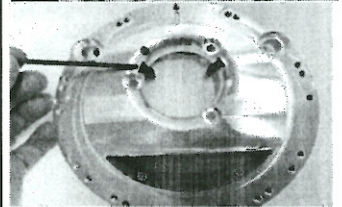
Step 1: Begin by removing the existing air cleaner and backing plate as illustrated in the appropriate service manual for your year and model of motorcycle. Picture # 1 **Remove the OEM throttle body support bracket if applicable.** Clean the flange on the throttle body as well as the bosses on the cylinder heads. Using the rubber covered gasket supplied, put a thin coat of grease on the face of the throttle body to hold it in place during assembly.



Step 2: Apply blue Loctite to two threaded holes where the reservoir and gasket mount with (2) 8/32 socket heads to the backing plate.

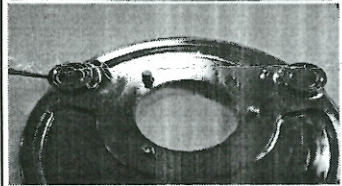
Step 3: Install two vent tubes as shown in picture. Picture #2

Step 4: Picture #3 apply a dab of grease in each of the 4 O-ring grooves in the back of the backing plate. Then install the O-rings in each groove. Install 3, 1/4-20 x 3/4" Socket-heads with thread locker in the backing plate, and install the gasket on the backing plate. Picture # 3 Install O-rings into back plate spacer with a dab of grease. **Carbureted models use only 1 gasket between backing plate, 07 and late Fuel Injected models use a gasket, the spacer, then a gasket between backing plate like shown in picture # 5.**



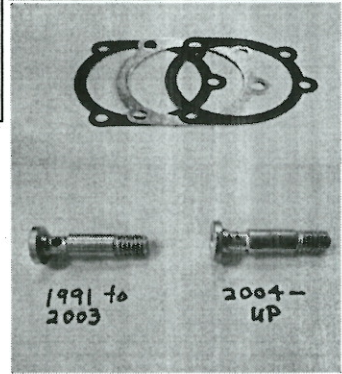
Step 5: Now determine what style bolts to use to attach the backing plate to the engine. Picture 6

- A) 1991– 2003 use the breather bolts with the large hole
- B) 2004–Present Use the breather bolts with the smaller hole.



Step 6: Coat the head of both banjo bolts with grease as shown in the picture. Install backing plate spacer between head and backing plate with the O-ring in it up against the head. Thread in both banjo bolts loosely. Torque the 3, 1/4-20 x 3/4" socket-heads that connect the backing plate to the throttle body to 10-12 Ft.lbs. Now torque the banjo bolts to 18 ft.lbs

Step 7: Picture # 6 Install banjo bolt cover plates as show in the picture. Picture # 7 Install filter with Arlen Ness Engraving facing so it is straight up. Install cover assembly with required number of 10-24x 5/8" Socket-heads with Loctite to 40-50 in.lbs.



To ensure maximum performance adopt cleaning and re-oiling of the air filter element as part of the regular maintenance schedule. Re-torque all air cleaner hardware every time you service the filter.

IMPORTANT NOTE: Due to the increased air flow it may be necessary to install some kind of adjustable fuel tuner.

Recommended Service Intervals:

Inspection @ 5000 miles. Clean @ 10,000 miles.

Filter service intervals will vary depending on riding environment. Visually inspect and clean as needed.

Cleaning Instructions:

1. Tap the filter element to dislodge loose debris and brush remaining loose debris from filter.

