

NOTE: This aircleaner assembly may require support brackets or a breather kit depending on the year of the engine and model, to complete installation. Cyclesmiths offers the following kits for EVO Big Twins to complete the installation if needed:

PN 121 for 1992 and earlier "non-breather" style heads.

PN 122 for 1993 and later "breather" style heads.

Similar kits from other sources to install "flat backed" aircleaners will usually work too.

NOTE: With installations on S & S carbs, you may need to obtain a "T"- style Enrichment Device, S & S part #11-2084, as the lever that comes with the stock S & S backing plate cannot be reused. They are available at your local S & S dealer.

WARNING! Gasoline and its fumes are very dangerous. Perform this work in well ventilated area away from sources of sparks and flames.

NOTE: Read all instructions before beginning the installation to familiarize yourself with the process and parts.

INSTALLATION:

1. Turn off the fuel valve and remove the old aircleaner assembly including the backing plate if any, and clean the carb flange.
2. To begin the installation, remove the backing plate nuts and lock washers and remove the backing plate from the new aircleaner assembly.
3. If support brackets are going to be used, put them onto the heads along with the breather tube if applicable, leaving them a little loose so they can be moved while installing the backing plate later.
4. If an engine breather hose is going to be connected to the aircleaner, use the supplied grommet and elbow. If there is no breather or a remote breather is to be used, the elbow should be capped or you can remove both the grommet and the elbow from the backing plate and plug the hole with a 1/2" expansion plug. Do not install the breather hose until the aircleaner is fully installed as it may hinder access to some fasteners.

5. Install the backing plate onto the carb. If brackets are being used, position them so that their slots line up with the 2 threaded holes in the backing plate and use the appropriate fasteners in the kit. (If the threaded holes are not used they should be plugged with two short 1/4 - 20 threaded screws). Before tightening any fasteners make sure that the carb, backing plate and brackets are aligned and spaced properly to each other and the engine. Due to production tolerances on differing components, it may be necessary to shim or adjust the brackets slightly to achieve proper alignment.

6. Put the filter on the front cover with the beveled rubber sidewall of the filter facing towards the front cover. On the #120 Finned Aircleaners, the peak of the bevel will actually contact the back of the fins lightly when properly fitted. Align the studs in the aircleaner assembly with the appropriate holes in the backing plate. As the air filter element begins to touch the backing plate, it will be necessary to gently pull the rubber lip of the element out and away slightly from the backing plate with your finger tips so that it will slip over the backing plate edge. Work around the filter ensuring that the rubber lip is not catching anywhere and being careful not to crush or bend the filter.

NOTE: The recessed part of the backside rubber sidewall of the filter must slip over the outside edge of the backing plate. Additionally, on the #120 Finned Aircleaner, the outer lip of the backside sidewall of the filter will also fill in the grooves of the backing plate ears when fitted properly. When properly fitted, all aircleaners will have about .015" to .030" of crush on the filter element before the stand-offs of the front cover contact the face of the backing plate. If the filter starts to deform as the front cover is pushed on, then it is probably caught on something and needs to be seated properly.

7. Once the filter element is fitted correctly, the lock washers and nuts may be installed onto the studs and snugged down. When the nuts are tight, the stand-offs of the front cover should be contacting the backing plate solidly.

8. Route the breather hose if used once all fasteners have been double-checked and use zip ties if needed for routing. **IMPORTANT!** Before starting the engine or riding the motorcycle, check to ensure that hoses are routed away from sources of extreme heat such as exhaust pipes or cylinder heads and that the throttle is operating properly and safely!