

With years of experience designing improved cylinder heads, combustion chambers and intake manifolds, FEULING brings light to a new bolt-on air cleaner design for Harley-Davidson motorcycles. The FEULING BA Air Cleaner lengthens the intake runners and increases air velocity, delivering added volume for balanced dynamic flow.



FITS: '23-'25
 CENTER COOLED

The BA Air Cleaner features a highflow billet aluminum velocity stack with optimal opening diameter, outer lip and internal (ID) taper. The BA Air Cleaner includes a highflow reusable air filter and one piece billet cage. The one piece design, creates a clean look and eases installation when compared to the industry standard multi stack up construction.

CID	MODEL YEAR 2023:
121"	FLTRXSE, FLHXSE

CID	MODEL YEAR 2025:
117"	FLHXU, FLTRX, FLHX, FXBR, FXBB, FLHC, FLFB, FXLRS, FXLRST
121"	FLTRXSTSE, FLTRXSE, FLHXSE

CID	MODEL YEAR 2024:
117"	FLTRX, FLHX, FLTRXSTSE, FLTRXSE, FLHXSE
121"	FLTRXSTSE, FLTRXSE, FLHXSE

1. Use the proper tools for installation. Clean the intake with a clean rag to ensure it is free of debris.



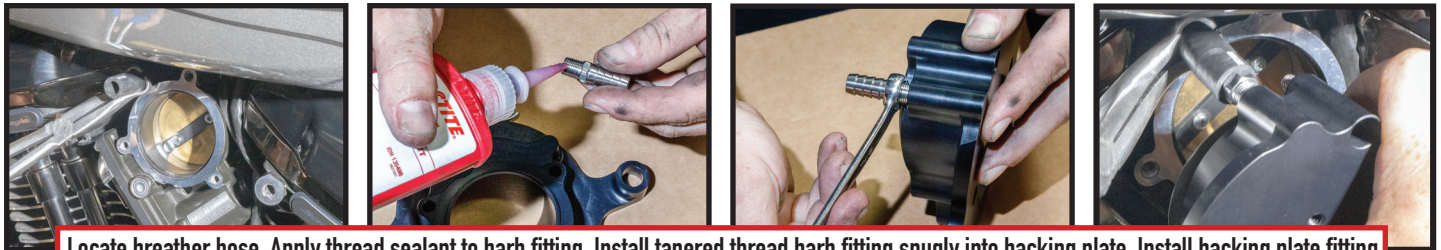
- TOOLS:**
- 1.) Ratchet
 - 2.) 5/32" Long Ball Allen
 - 3.) 3/16" Allen Socket
 - 4.) Extension
 - 5.) 3/8" 12 Point Socket

- BACKING PLATE HARDWARE:**
- Throttle Body Bolts:**
 Qty. 2, 1/4"-20 x 1.250"
 Qty. 1, 1/4"-20 x 1.750"
- ARP Backing Plate Bolts:**
 Qty. 2, 3/8"-16 x 1.000"
- Barbed Breather Fitting:**
 Qty. 1, 3/8" Hose, 1/8" NPT



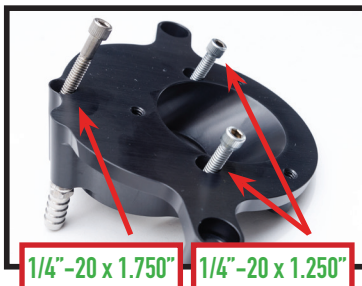
Clean throttle body & blade

2. Install barb fitting into back side of backing plate. Slide OEM breather hose over barb fitting.

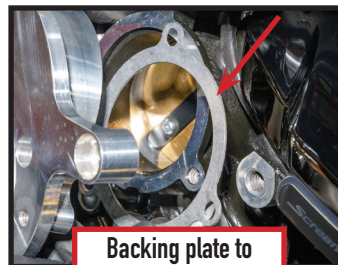


Locate breather hose. Apply thread sealant to barb fitting. Install tapered thread barb fitting snugly into backing plate. Install backing plate fitting

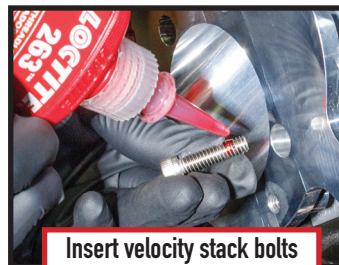
3. Place throttle body gasket behind backing plate. Use 263 Red Loctite when installing the 3 throttle body bolts. Hand tighten.



1/4"-20 x 1.750" 1/4"-20 x 1.250"



Backing plate to throttle body gasket



Insert velocity stack bolts to help center backing plate



Hand tighten throttle body bolts

4. Use 263 Red Loctite on the two ARP Backing Plate bolts. Install and hand tighten. Torque the three backing plate to throttle body screws to **72in lbs.** Torque the two ARP backing plate bolts to **22-24ft lbs.**



Apply red Loctite



Hand tighten backing plate bolts



Torque throttle body bolts **72in lbs.** Backing plate bolts to **22-24ft**



5. Install velocity stack gasket into air cleaner cage, then install velocity stack into cage. Insert the three velocity stack bolts and install air cleaner cage to backing plate gasket on back side of cage. Use 263 Red Loctite on velocity stack bolts. Clock the "T" on the inside of the cage to the top of the bolt hole on the backing plate.

T = TOURING

HARDWARE:
Velocity stack button heads:
 Qty. 3, 1/4" - 20 x 0.750"
Cover bolts (Long):
 Socket head cap screw
 Qty. 3 10/32 x .750"
Cover bolts (Short):
 Socket head cap screw
 Qty. 3, 10/32 x .250"

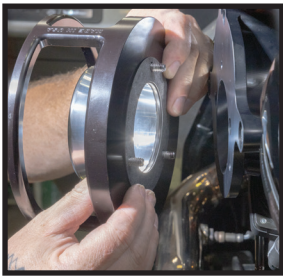


Install velocity stack and gasket. Apply red loctite to velocity stack bolts

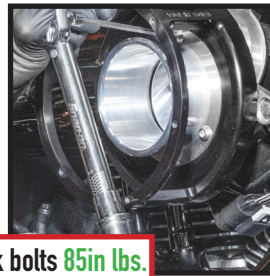
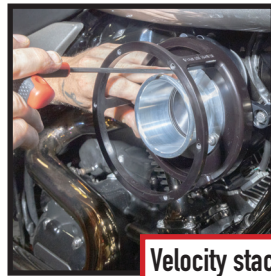


Clock air filter cage.

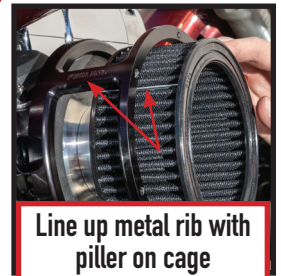
6. Torque velocity stack bolts to **85in lbs** using a long ball allen socket. Install air filter ring gasket into base of cage. **Gasket**



Velocity stack bolts **85in lbs.**



Air filter ring gasket.



Line up metal rib with pillar on cage

7. Lube both sides of air filter and install. Air filter should barely protrude lip of cage. Too much protrusion will crush filter. Remove filter gasket ring if needed. Use 545 thread sealant to air cleaner cover bolts. Torque to **30in lbs.** Wipe down all air cleaner surfaces, **GO RIDE!**



Lube air filter using provided O-ring lube



545 thread sealant



Cover bolts **30in lbs.**



GO RIDE!

NOTE: FEULING DOES NOT RECOMMEND TUNING BEYOND STOCK EMISSION STANDARDS

*** STANDARD 1 YEAR WARRANTY:**

- WARRANTY COVERS MANUFACTURE DEFECTS.
- DOES NOT COVER PARTS THAT HAVE FAILED DUE TO IMPROPER INSTALLATION, MAINTENANCE, EXCESSIVE CRANKSHAFT RUNOUT, OR MISUSE.
- DOES NOT COVER ANY CONSEQUENTIAL DAMAGE RESULTING FROM A FAILURE OF A FEULING PRODUCT.

*** OPTIONAL 2 YEAR WARRANTY:**

- ADDITIONAL YEAR WARRANTY IS ONLY AVAILABLE IF PARTS ARE INSTALLED BY A PROFESSIONAL INSTALLER.
- THE ONLINE WARRANTY FORM MUST BE COMPLETED BY THE DEALER PRIOR TO BIKE DELIVERY.
- OIL TANK MUST BE DROPPED & CLEANED.
- CRANKSHAFT RUNOUT MUST BE BELOW 0.005"

NOTE: FOR FULL WARRANTY INFORMATION VISIT WWW.FEULINGPARTS.COM/WARRANTY



DISCLAIMER: NOT LEGAL FOR SALE OR USE IN CALIFORNIA ON ANY POLLUTION CONTROLLED MOTOR VEHICLE.