



# FEULING®

## M-EIGHT AIR CLEANER KIT INSTALLATION INSTRUCTIONS

RAW FINISH: #5431, #5432, #5531, #5532  
 BLACK FINISH: #5433, #5434, #5533, #5534  
 POLISHED FINISH: #5435, #5436, #5535, #5536  
 CHROME FINISH: #5437, #5438, #5537, #5538

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.

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.



Touring '17-'23 Softail '18-'23



CID	MODEL YEAR 2017:
107"	- FLHR, FLHRC, FLHX, FLHXS, FLTRX, FLTRXS, FLHTKL, FLHTK, FLHTCU, FLHTCUTG,
114"	- FLHTKSE, FLHXSE

CID	MODEL YEAR 2018:
107"	- FLHR, FLHRC, FLHRXS, FLHXS, FLTRX, FLTRXS, FLHTKL, FLHTK, FLHTCU, FLHTCUTG, FLTHKL, FLRT, FLDE, FLFB, FLHC, FLSL, FXBB, FXFB, FXLR
114"	- FLHTKSE, FLHXSE, FLFBS, FLHCS, FXFBS

CID	MODEL YEAR 2019:
107"	- FLHR, FLHRC, FLHX, FLTRX, FLHTCU, FLHTK, FLTHKL, FLDE, FLFB, FLHC, FLSB, FLSL, FXBB, FXBR, FXFB, FXLR
114"	- FLHRXS, FLHXS, FLTRXS, FLHTKL, FLHTK, FLHTCUTG, FLRT, FLFBS, FLHCS, FXFBS
117"	- FLHTKSE, FLHXSE

CID	MODEL YEAR 2020:
107"	- FLHR, FLHRC, FLHX, FLTRX, FLHT, FLHTCU, FLDE, FLFB, FLHC, FLSB, FLSL, FXBB, FXFB, FXLR
114"	- FLHRXS, FLHXS, FLTRXS, FLHTKL, FLHTK, FLHTCUTG, FLHTK, FLTHKL, FLRT, FLFBS, FLHCS, FXBRS, FXFBS, FXLRS
117"	- FLHTKSE, FLHXSE

CID	MODEL YEAR 2021:
107"	- FLHR, FLHX, FLTRX, FLHT, FLHTCU, FLHC, FLSB, FLSL
114"	- FLHRXS, FLHXS, FLTRK, FLHTK, FLHTCUTG, FLHTK, FLRT, FLFBS, FLHCS, FXBBS, FXBRS, FXFBS, FXLRS
117"	- FLTRXSE, FLHTCUTGSE, FLHTKSE, FLHXSE

CID	MODEL YEAR 2022:
107"	- FLHR, FLHX, FLTRX, FXS
114"	- FLHRXS, FLHXS, FLTRXS, FLTRK, FLHTK, FLHTCUTG, FLHTK, FLRT, FLFBS, FLHCS, FXBBS, FXFBS
117"	- FLHXSE, FLHXST, FLTRXSE, FLTRXST, FLHTCUTGSE, FLHTKSE, FXLRS, FXLRST

CID	MODEL YEAR 2023:
107"	- FLHR, FLHX, FLTRX, FXS
114"	- FLHP, FLFBS, FLFBSANV, FLHCS, FLHCSANV, FXBBS, FXFBS, FLHFB, FLHRXS, FLHTK, FLHTKSHRINE, FLHTKANV, FLHXS, FLHXSANV, FLTRK, FLTRXS, FLTRXSANV, FLHTCUTG, FLHTCUTGANV, FLRT, FLTRT
117"	- FLTRKSEANV, FXBR, FXLRS, FXLRST, FLHXST, FLTRXST

EXEMPT FROM EMISSIONS TAMPERING REGULATIONS UNDER CARB EO #D-881  
 NOTE: FEULING DOES NOT RECOMMEND TUNING BEYOND STOCK EMISSION STANDARDS

### INSTRUCTIONS

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

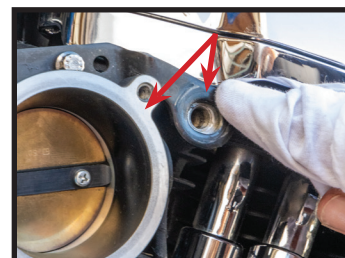


#### TOOLS:

- 1.) Ratchet
- 2.) 5/32" Long Ball Allen
- 3.) 5/32" Allen Socket
- 4.) Extension
- 5.) 7/16" Socket



Clean throttle body & blade.

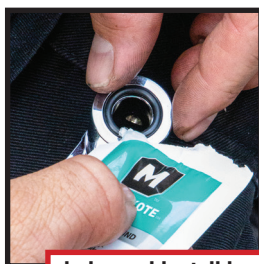


Clean breather holes & throttle body surfaces

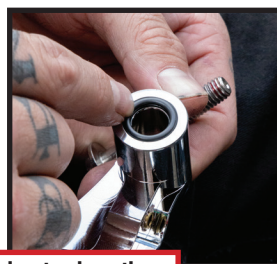
2. Lube and install inner and outer breather O-rings, use with O-ring lube.



Inner breather O-rings



Lube and install inner and outer breather O-rings, use with O-ring lube.



Install breather bolts with outer breather O-rings

**3.** If throttle body bracket is removed, use included spacers. If bracket is present (preferred), no need to use the included spacers. Install breather bolts with red loctite on threads & O-ring lube on underhead flanges. Insert velocity stack bolts to help center backing plate. Alternately tighten and torque breather bolts. Final torque to **22-24 ft/lbs.**

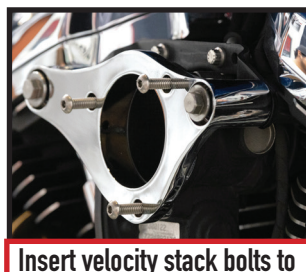


Throttle body bracket

Use spacers if throttle body bracket is removed.



Backing plate to throttle body gasket



Insert velocity stack bolts to help center backing plate.

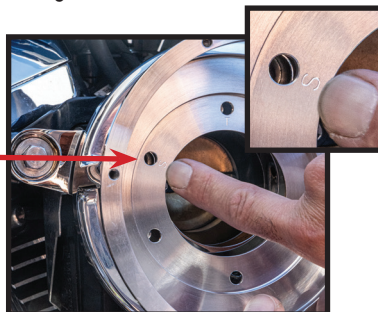


Final torque breather bolts to **22-24 ft/lbs.**

**4.** On the inside of the filter cage, see "S" for Softail & "T" for Touring models. Align this bolt hole to the top left bolt hole of backing plate, this will clock the cage and logo properly. Install velocity stack, gaskets and bolts.

**HARDWARE:**  
Velocity stack button heads:  
Qty. 3, 1/4"-20 x 1.500"  
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"

CLOCK CAGE WITH TOP LEFT BOLT HOLE OF THROTTLE BODY



**T = TOURING**

**S = SOFTAIL**



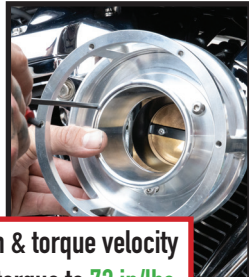
CLOCK AIR FILTER CAGE

**5.** Apply red loctite to the velocity stack bolt threads. Alternately tighten and torque the 1/4"-20 velocity stack bolts to a final torque of **72 in/lbs.** Lube both bases of the air filter to seal filter to cage & cover. Insert air filter into cage.

Install velocity stack, gaskets and bolts.



Alternately tighten & torque velocity stack bolts. Final torque to **72 in/lbs.**



GASKET



Lube both filter bases with O-ring lube. Install filter gasket ring and filter into cage

**6.** Apply 545 thread sealant to the 10-32 cover bolt threads. Start with the 3 longer .750" bolts, alternately tighten and torque to **30 in/lbs.**



Line up metal filter rib with cage post to hide rib.



Start with the 3 longer .750" bolts. Install cover with logo at the six o'clock position



Final torque cover bolts to **30 in/lbs. GO RIDE!**

**\* 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](http://WWW.FEULINGPARTS.COM/WARRANTY)



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