FEULING®

CYLINDER HEAD BREATHERS INSTALLATION INSTRUCTIONS FOR M-EIGHT ENGINES

Touring '17-'22 Softail '18-'22

CYLINDER HEAD BREATHERS FOR M-EIGHT ENGINES

PART #3250

FEULING Cylinder head breathers for Milwaukee Eight engines. Machined from billet 6061 aluminum with square surfaces, promoting excellent umbrella valve sealing, longer main breather exit nipples with dual O-rings to promote better breather system sealing. Properly sized breather inlets and location for optimum engine breathing. Unique design maximizes breather volume and allows for easy serviceability. Breather bodies have 5 drain ports located on the inside floor, ports are chamfered on ID to allow easy drainage yet squared off on exits to deter filling from splash oil.

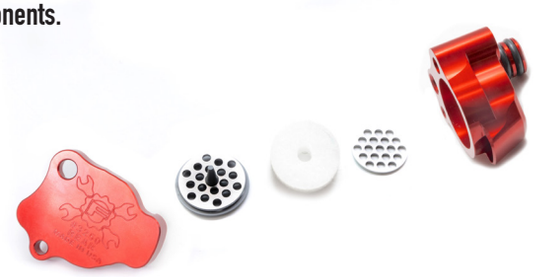


CAUTION:

Removal of the rocker arms and or pushrods with the valve train loaded can damage rocker arms, push rods, bushings and or camplate. Rotate engine to TDC of compression stroke on the servicing cylinder.

INSTRUCTIONS:

1. Refer to the correct factory service manual for your model and year of engine, for removal of existing cylinder head breathers.
2. Clean and inspect each new Feuling cylinder head breather housings and components.
3. Clean and inspect mounting surfaces, threads and bores.
4. Assemble the new Feuling cylinder head breathers



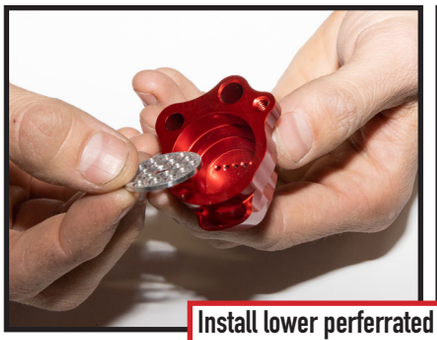
Install:

a. Lower discs
b. Filter element
c. Top disc and umbrella valve
d. Top aluminum cover
e. Use loctite on threads of new hardware, use moly lube/engine assembly/oil on underhead bolt flanges and nipple o-rings

1. Clean and inspect breathers and components.



Clean & inspect new Feuling components for assembly





Install lower perferrated disc (smaller) into breather body. Make sure disc is flat and fully in place inside housing

2. Assemble cylinder head breathers: Lower disc, Filter element, Upper disc, Umbrella valve, Top cover and Hardware.



Install filter element into breather body. Fully tuck in edges of filter elements so there is no excess material showing.



Install umbrella valve and disc on top of filter element.



Ensure umbrella valve seals over breather body surface.

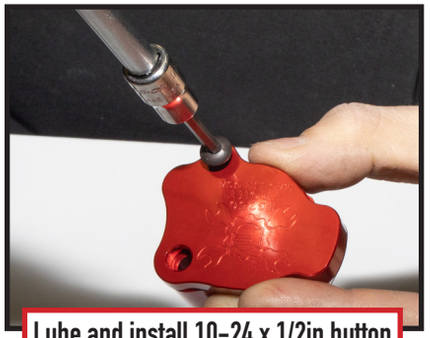
3. Hand tighten breather cover with button head screw.
   Note: Center breather cover and final torque button head after install, adjust breather housing and cover for clearance.






Install cover onto breather body. Apply 263 loctite onto button head fastener before threading into cover

4. Lube O-rings and cylinder head bore with engine oil, Install breather assembly into cylinder head. Make sure double O-ring nipple is fully seated into head breather cavity.



Lube and install 10-24 x 1/2in button head to seat aluminum cover.




Lube nipple O-rings and install assembly into cylinder head

5. Install ARP fastener with 263 loctite. Final torque both bolts once breather is fully inserted and centered into cylinder head cavity.



Final torque 10-24 x 1/2in button head to 22-24 in/lbs.





Lube and install 1/4-20 x 1 3/4in ARP bolt & torque to 90-120 in/lbs.

*** 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

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