



## **FEULING® FASTENERS INSTALLATION INSTRUCTIONS**

### **IMPORTANT NOTICE**

**THIS INSTALLATION SHOULD BE DONE BY AN EXPERIENCED MECHANIC WHO HAS ACCESS TO A FACTORY SERVICE MANUAL AND ALL REQUIRED TOOLS**

### **CAUTION**

**INCORRECT INSTALLATION CAN CAUSE ENGINE DAMAGE NOT COVERED UNDER WARRANTY. FAILURE TO INSTALL COMPONENTS CORRECTLY CAN CAUSE ENGINE SEIZURE. ENGINE SEIZURE MAY RESULT IN SERIOUS INJURY TO MOTORCYCLE, OPERATOR, PASSENGER, AND/OR OTHERS.**

### **CAUTION**

**IMPROPERLY TORQUED BOLTS MAY RESULT IN OIL LEAKS AND DISTORTION OF COMPONENTS. IF REPLACING THE ENGINES HEAD BOLTS OR STUDS ALWAYS USE NEW HEAD & BASE GASKETS SOME FASTENER KITS MAY INCLUDE FASTENERS NOT APPLICABLE TO YOUR MODEL**

- 1 Refer to the proper service manual for your model motorcycle engine.
- 2 Wash, clean and inspect all new Feuling hardware
- 3 Clean and inspect all bolt holes
- 4 When threading into aluminum lightly coat the threads and under head flange of the new Feuling fasteners with moly lube.
- 5 When threading into steel lightly coat the threads of the new Feuling fasteners with loctite and coat the under head flange with moly lube and where applicable lightly coat the Feuling washers on both sides with moly lube.
- 6 It is recommended to use new gaskets and O-rings to insure proper sealing
- 7 Check gaskets / O-rings for proper installation
- 8 When installing fasteners on moving parts always rotate engine over several times before tightening to insure the parts are centered
- 9 First finger tight each fastener using the proper sequence from your service manual, if no sequence is giving always use an alternating sequence starting in the center working your way out.
- 10 Torque the fasteners following your recommended torque values and always tighten fasteners stepping the torque value in small increments.

\*Feuling recommends a maximum of 0.0035" crankshaft runout + play in the crankshaft bearings for maximum horsepower/torque and engine longevity.

### **IMPORTANT NOTICE:**

Damage to Feuling oil pump corporation products from excessive pinion shaft run out and or valve spring coil bind will void manufacturer's warranty.

### **WARRANTY:**

All parts are guaranteed to the original purchaser to be free of manufacturing defects in materials and workmanship for a period of twelve (12) months from the date of purchase. Merchandise that fails to conform to these conditions will be repaired or replaced at FOP's option if the parts are returned to FOP by the purchaser within the (12) month warranty period. In the event warranty service is required, the original purchaser must notify FOP of the problem immediately. Some problems may be rectified by a telephone call and need no further action. A part that is suspect of being defective must not be replaced without prior authorization from FOP. If it is deemed necessary for FOP to make an evaluation to determine whether the part was defective, it must be packaged properly to avoid further damage, and be returned prepaid to FOP with a copy of the original invoice of purchase and a detailed letter outlining the nature of the problem, how the part was used and the circumstances at the time of failure. After an evaluation has been made by FOP and the part was found to be defective, repair, replacement or refund will be granted.

### **ADDITIONAL WARRANTY PROVISIONS:**

FOP shall have no obligation in the event an FOP part is modified by any other person or organization, or if another manufacturer's part is substituted for one provided by FOP. FOP shall have no obligation if an FOP part becomes defective in whole or in part as a result of improper installation, improper break-in or maintenance, improper use, abnormal operation, or any other misuse or mistreatment. FOP shall not be liable for any consequential or incidental damages resulting from the failure of an FOP part, the breach of any warranties, the failure to deliver, delay in delivery, delivery in non-conforming condition, or any other breach of contract or duty between FOP and the customer.

The installation of parts may void or otherwise adversely affect your factory warranty. In addition, such installation and use may violate certain federal, state and local laws, rules and ordinances as well as other laws when used on motor vehicles operated on public highways, especially in states where pollution laws may apply. Always check with federal, state, and local laws before modifying your motorcycle. It is the sole and exclusive responsibility of the user to determine the suitability of the product for his/her use, and the user shall assume all legal, personal injury risk and liability and all other obligations, duties and risks associated therewith. Our high performance parts, engines and motorcycles are intended for experienced riders only.

Feuling Oil Pump Corporation reserves the right to change prices and/or discounts without notice and to bill at the prevailing prices at the time of shipments.

The words Harley®, Harley-Davidson® and H-D® and all H-D® part numbers and model designations are used in reference only. Feuling Oil Pump Corporation is in no way associated with, or authorized by Harley-Davidson Motor Co®. to manufacture and sell any of the engine parts described in this instruction sheet.

**#3028, M8 SOFTAIL PRIMARY AND TRANSMISSION 12 POINT STAINLESS BOLT KIT**

9	Primary Cover	1/4-20 x 1.250"
4	Primary Cover W/ Washers	1/4-20 x3.500
4	Primary Cover W/Washers 'Long bolts' for Fatboy, Breakout	¼-20 x 4.250"
2	Engine to Trans - Bottom, use HD Washer	3/8-16 x 2.000"
2	Engine to Trans - Top, Use HD Washer	3/8-16 x 1.750"
5	Derby Cover use washers	1/4-20 x .750"
5	Derby Cover use washers (2019 & up only)	#10-24 x .625"
2	Trans Clutch Release Cover	1/4-20 x .1000"
4	Trans Clutch Release Cover use washers	1/4-20 x 1.500"
8	Trans Bearing Housing Cover use washers	5/16-18 x 1.250"
6	Transmission Top Cover use washers	1/4-20 x 1.000"
1	Oil Cooler Bracket next to Top Transmission Cover	1/4-20 x.515"
2	Starter Motor W/ Washers	5/16-18 x 1.750"
10	5/16" Washers	5/16"
4	3/8" Washers , Heavy Duty	3/8"
22	1/4" Washers	1/4"
1	Ultra Torque Lube	Lube

**#3029 M8 SOFTAIL TRIM KIT, 12 POINT STAINLESS BOLT KIT**

4	Rear Fender Bracket	3/8-16 x .750"
4	Rear Fender Bracket	3/8-16 x 1.500"
3	Battery Box Side Covers	1/4-20 x .750"
2	Shifter Linkage (FINE THREAD)	5/16-24 x .750"
1	Shifter Arm W/ Washer and Nut	5/16-18 x 1.500"
2	Rear Brake Master Cylinder	5/16-18 x 1.500"
1	Rear Brake Master Cylinder	5/16-18 x 2.000"
1	Rear Brake Master Cylinder (FINE THREAD)	5/16-24 x .750"
2	Dash	5/16-18 x .750"
4	Footpeg brackets	3/8-16 x 1.750
4	Belt Guard	5/16-18 x .560"
1	5/16" Nut	5/16"
1	5/16" Washer	5/16"
1	Ultra Torque Lube	Lube

**#3061, M8 SOFTAIL EXTERNAL ENGINE 12 POINT STAINLESS BOLT KIT**

8	Cover for front & rear Lifters	1/4-20 x 1.000"
9	Cam Cover	1/4-20 x 1.250"
20	Cover for Rocker Front & Rear	1/4-20 x 1.250"
20	Washers	Lrg. Dia. 1/4-20
2	Center Head Bolts / Horn/ Engine mount	3/8-16 x 1.250"
4	Oil Line Mounting Bases	1/4-20 x 1.000"
2	Front Head Mount Bolts	3/8-16 x 1.750;"
2	Front Head Stabilizer Mount Bolts W/ HD Washer	3/8-16 x 1.000"
4	Exhaust Studs	5/16-24 x 1.700"
4	Exhaust Nuts	5/16-24 Self locking
2	Induction module bracket, use washers	M6 – 1.00 x 20mm
2	Washers for induction module bracket	M6
14	Case Bolts	5/16-18 x 3.250"
2	3/8" Heavy Duty Washer	3/8"
1	Ultra Torque Lube	Lube

**#3034 MILWAUKEE EIGHT SOFTAIL EXTERNAL ENGINE, STAINLESS FASTENER KIT '17-'19**

14	Case Bolts	5/16-18 x 3.250"
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