

- b. **Greater than 177.4 ml (6 fl oz):** Go to Step 8.
7. The condition is not caused by sumping.
- a. Explore other causes (fuel, timing, intake and so on).
8. The condition is likely caused by sumping.
- a. Verify cylinder and piston integrity (scuffing, scoring, oil rings present).
 - b. Verify that connecting rod bearings roll free and smooth. Connecting rod bearings that require more than light force to separate may require additional service.
 - c. A reduction in piston jet assembly screw torque is expected after operation due to gasket compression. Unless piston jet assembly is visibly loose, the piston jet assembly gasket is mis-installed or the gasket or a screw is missing, the piston jet assembly joint will not cause sumping. Tighten piston jet assembly.
Torque: 3.1–3.7 N·m (27–33 **in-lbs**)

If engine damage is observed: Contact regional Technical Service.

If engine damage is not observed: Install new oil pump (Refer to Table 2.) and existing gerotor using the torque sequence below, then assemble engine and file the appropriate warranty claim. Refer to Table 3.

Install

- 1. Install cam support plate. See the service manual.
- 2. Refer to Figure 1. Follow modified tightening sequence.
Torque: 10.4–12.7 N·m (92–112 **in-lbs**)
 - a. Tighten screws 1-6.
 - b. Rotate crankshaft 360°.
 - c. Tighten screws 7-10.

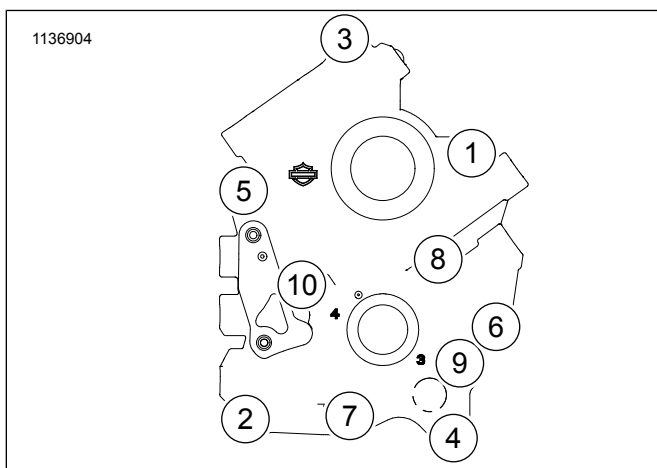


Figure 1. Cam Support Plate Tightening Sequence

Dealer Inventory Instructions

The current oil pump (Part No. 62400121, 62400124, 62400143 and 62400146) can be used for all OE (Original equipment) vehicle configurations that require oil pump maintenance or repair not associated with sumping.

Use oil pump (Part No. 62400182 or 62400178) for Stage III and IV kit that are exhibiting sumping.

Dealers should not return inventory of (Part No. 62400121, 62400124, 62400143 and 62400146) as defective stock.

Extra information

- 1. When installing a Screamin' Eagle Stage III or Stage IV kit on a 2017 and 2018 Milwaukee-Eight equipped motorcycle, a new pump assembly is required, which can be ordered through the regular part ordering process.
- 2. New oil pumps installed for new Stage III and Stage IV kit installations are reimbursed at cost. Refer to Table 4.
- 3. Current inventory of oil pumps (both oil cooled and Twin-Cooled™) can be used as replacement for any concern (not sumping related), as needed.

For example: Debris in oil, wrong oil pump for engine (oil vs water), gerotor cracks and so on.

Credit Procedure: Reimbursement of Oil Pump for Screamin' Eagle Stage III or IV Kits Registered to SWR

Reference this bulletin in the Event Notes/Comments of claim.

Table 3. Kits Registered to SWR

ITEM	DATA
Claim Type	PNA / Standard claim
Problem Part Number	Screamin' Eagle Stage III or IV Kit registered to VIN (Vehicle identification number)
Quantity	Leave Blank
Primary Labor Code ⁽¹⁾	8865
Time	7.6
Customer Concern Code	3102
Condition Code	9106
Replacement part number	New oil pump and necessary miscellaneous parts. Refer to Table 2.

(1) Download may be required.

Submit a warranty claim for the new oil pump required for the installation of Stage III and Stage IV kits. Refer to Table 4.

Table 4. Oil Pumps Required for Installation of Kits

ITEM	DATA
Claim Type	DFS (Defective stock) / PAM Sold
Problem Part No.	62400121, 62400124, 62400143 or 62400146
Quantity	Leave blank
Customer Concern Code	9901
Condition Code	9110
Replacement part number	62400178 or 62400182
Quantity	1

Bulletin number M1450 must be entered into the comments section of the claim.

Return Parts

Hold all claimed parts for 60 days from date of credit issued for possible field inspection and/or request to return to factory. After 60 days, destroy and discard the parts.