

## OIL PUMP / 1977 XL, XLCH, XLT, XLCR

The information in this bulletin should be used in conjunction with previous Service Bulletin No. 708 - Breather Valve

Zero gerotor (gear) side clearance must be maintained by the flat spring located between the upper and lower gerotor sets in the oil pump in order to provide adequate oil pressure. For the spring to function properly, the upper face of the lower feed gerotors must extend above the cover a slight amount to prevent any side clearance which would allow oil slippage past the gerotors and reduce oil pressure.

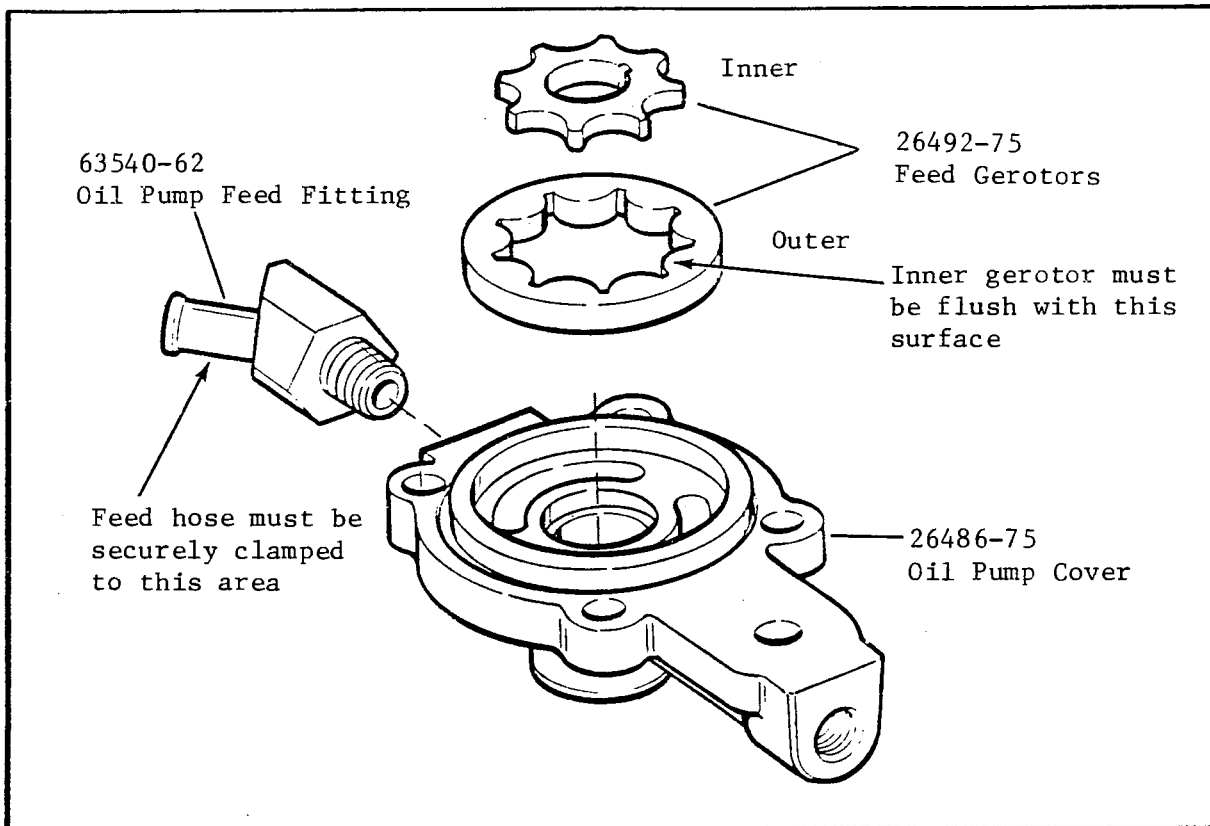
If you encounter reduced oil pressure or no oil pressure (oil pressure light comes on or stays on) or if you disassemble the oil pump for any reason, the gerotors should be checked and serviced as follows.

The feed (thin) gerotors, part No. 26492-75, are located within the oil pump cover, part No. 26486-75, and should extend .001" - .005" above the cover's aluminum ridge which surrounds them as measured with a feeler gage (See Illustration). The later gerotors extend up to .011" above the ridge. If the feed gerotors do not extend above the ridge within the specified range, remove them, invert cover on flat surface upon a piece of sandpaper (#280 grit to start - #400 grit to finish) and sand cover ridge evenly until the gerotors extend properly when inserted. Then, using a micrometer, check to see that both the inner and outer gerotors are the same width (thickness). If the widths measure equally but the gerotors are not equal in height when placed into the cover, the cover surface is not flat and the cover should be replaced. Be sure to check the gerotors in the new cover using a straight-edge to assure a level surface and the proper elevation above the ridge.

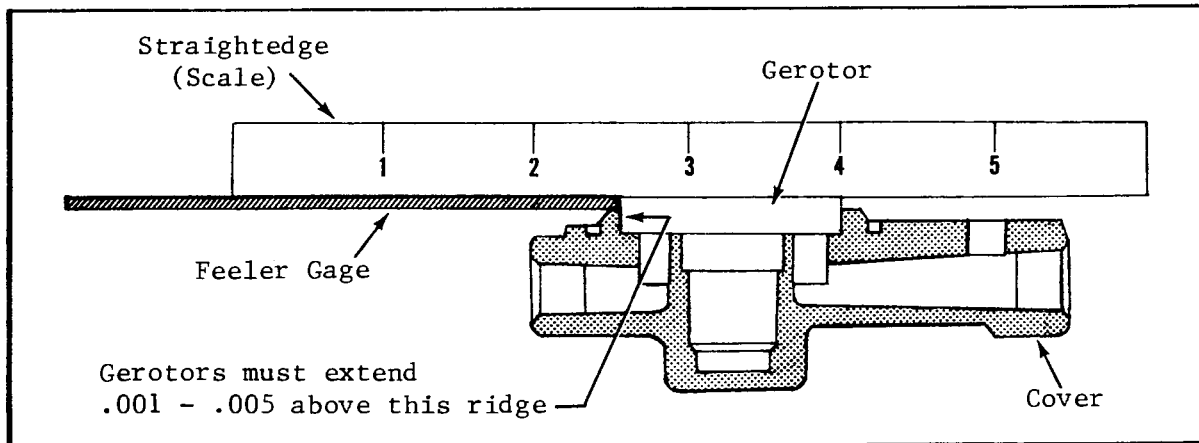
Another possible cause of low oil pressure is air leakage into the pump due to a loose hose clamp at the oil pump feed hose fitting, part No. 63540-62, and at the oil tank feed hose fitting. If the existing feed hose clamp, part No. 10020, cannot be evenly and securely crimped to the fittings, remove the clamp and install a worm drive hose clamp. This will prevent air leakage into the system which could cause loss of oil pressure due to an airlocked pump.

Oil pump covers found with an uneven gerotor surface should be removed. Submit a properly completed warranty form following normal warranty procedures. Use job code base number 3341 for .8 hour labor credit.

(OVER)



Oil Pump Cover, Feed Gerotors and Feed Hose Fitting



Method of Gerotor Measurement

HARLEY-DAVIDSON MOTOR CO., INC.

| ROUTING           | SERVICE<br>MANAGER | PARTS<br>MANAGER | CHIEF<br>MECHANIC | MECHANIC<br>NO. 1 | MECHANIC<br>NO. 2 | MECHANIC<br>NO. 3 | MECHANIC<br>NO. 4 | RETURN<br>THIS TO: |
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