

SERVICE BULLETIN



M-817

February 9, 1982

TRANSMISSION LUBRICATION AND OIL CONTROL IMPROVEMENTS 1340CC MODELS

Transmission Oil Recommendation

An improved lubricant is now available and is recommended for all FL/FX 4-speed transmissions. Harley-Davidson Transmission Lubricant is available in one gallon containers, Part No. 99891-82, or one quart containers, Part No. 99892-82, from Parts and Accessories.

This lubricant can also be used in 5-speed transmissions and will improve oil flow throughout both transmissions.

NOTE

All XL transmissions continue to use engine oil as specified in Owner's Manuals and Service Manuals.

1340 cc¹ Oil Control Improvements

Because of Harley-Davidson's commitment to product improvement, beginning with crankcase number 1482323012, the following changes were made to improve oil control and reduce oil vapor in the air cleaner.

SPROCKET SHAFT SEAL

See Figure 1. The sprocket shaft seal, Part No. 12026A, is now installed with the seal lip facing the flywheels. This will eliminate crankcase positive pressure in the

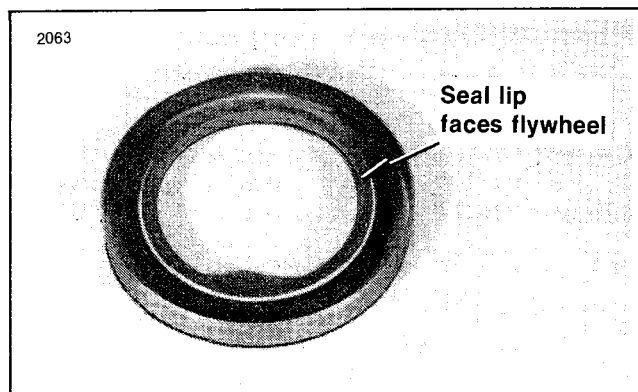


Figure 1. Sprocket Shaft Seal

primary cover which is now more critical with the following oil system changes.

OIL EVACUATOR FITTINGS

See Figure 2. The oil evacuator fittings, Part No. 18599-81, on the tappet blocks, and Part No. 62375-57, on the cylinder base have been removed. Due to the following changes, the fittings are no longer necessary.

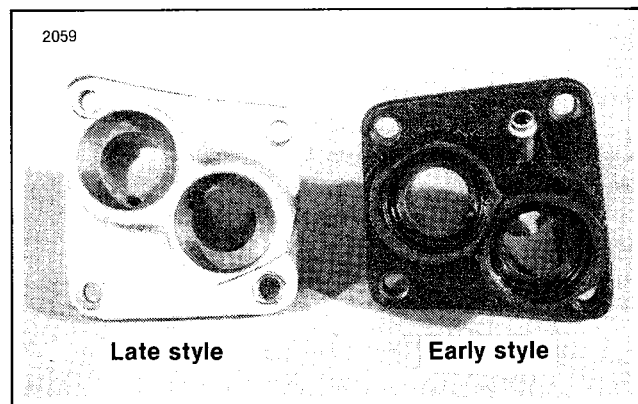


Figure 2. Oil Evacuator Fittings

ROCKER ARM COVER OIL LINE FITTING

See Figure 3. The inside diameter of the rocker arm oil line fitting, Part No. 63543-82, installed in the rear rocker box inlet hole, has been reduced to .090 in. diameter. This improves control of the amount of oil reaching the top end.

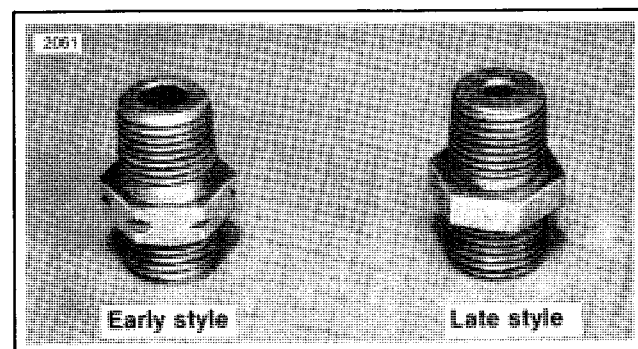


Figure 3. Rocker Arm Cover Oil Line Fitting

ROUTING:	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	CHIEF MECHANIC	MECHANIC NO. 1	MECHANIC NO. 2	MECHANIC NO. 3	MECHANIC NO. 4	RETURN THIS TO:
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CRANKPIN

See Figure 4. The oil feed hole in the crankpin, Part No. 23961-80, has been reduced to .090 in. diameter. This improves control of the amount of oil reaching the lower end.

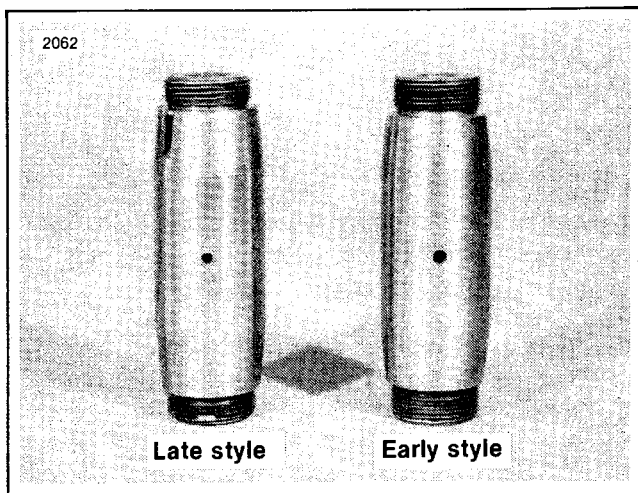


Figure 4. Crankpin

PRESSURE RELIEF VALVE

See Figure 5. The oil pump pressure relief valve has been lengthened and the inside diameter of the oil pump body tower was increased. This will reduce the amount of oil pressure build-up in the pump.

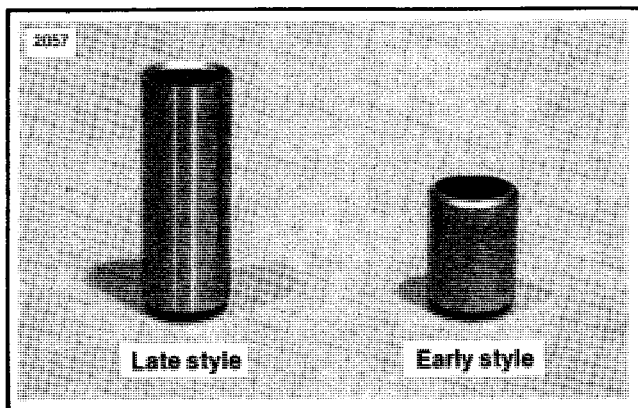


Figure 5. Pressure Relief Valves

OIL PUMP COVER

See Figure 6. The oil pump cover relief hole has been relocated. Oil will enter the inlet side of the pressure

pump instead of the pressure side of the scavenge pump. This will improve the oil return to the oil tank.

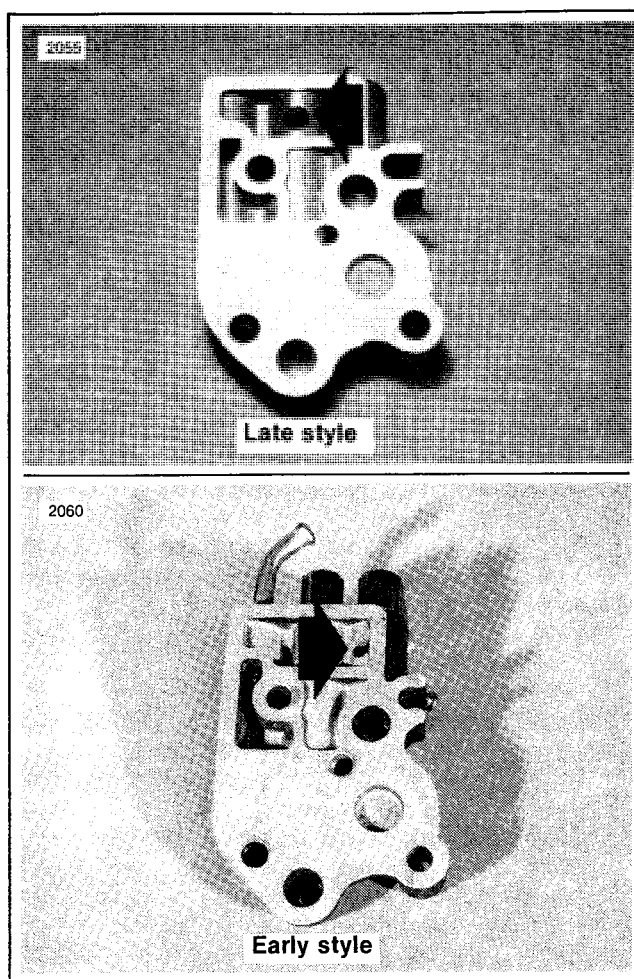


Figure 6. Oil Pump Cover

A 1340cc Oil Pump Service Kit, Part No. 26410-82 is available through Parts and Accessories. This kit can be used to update 1973 to early 1982 model oil pumps.

If an engine is in the shop for a complete overhaul, consider performing the changes listed.

NOTE

Changes to the oil line fitting and crankpin must both be performed at the same time. Do not make one change without making the other.