April 3, 1979

TRANSMISSION CHANGES / 1979 1000 CC MODELS

The following changes were made in early 1979 production engines to improve the engagement of the clutch teeth between the mainshaft 2nd gear and the clutch gear.

On September 21, 1978 starting crank-case No. 779-264-021, the mainshaft clutch gear thrust washer thickness was decreased .020 in. from .232 in. (nominal) to .212 in. (nominal). New thrust washer, part No. 35216-79, replaced old part No. 35361-56. Clutch gear assembly with new washer, part No. 37448-79 replaced old clutch gear assembly, part No. 37448-71.

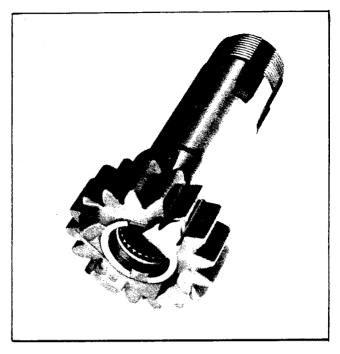
At the same time, the transmission drive sprocket hub width was increased .020 in. to compensate for the clutch gear change. New drive sprocket, part No. 35205-79 replaced old part No. 35205-52A.

The new drive sprocket must be used in conjunction with the clutch gear having the thinner thrust washer to correctly position the drive sprocket.

The above transmission changes are recommended for updating earlier transmissions, especially those encountering severe shifting service where rounding of the gear teeth is likely to occur.

Either install a new washer part No. 35216-79, in the old clutch gear part No. 37448-71, or use a new clutch gear, part No. 37448-79, which comes with the new washer already installed.

To convert an old clutch gear, remove the thrust washer and needle bearing using puller, part No. 95760-69 with the 3/4 inch collet, pressing out with a rod inserted from the opposite end of gear. If the tool is not available, parts can also be drifted out using a hammer and punch, but this may damage the bushing and necessitate bushing replacement.



PART CHANGES								
Part Name	New No.	Old No.						
Clutch Gear Washer	35216-79	35361-56						
Clutch Gear	37448-79	37448-71						
Drive Sprocket	35205-79	35205-52A						

Press in new needle bearing, part No. 35961-52 and new thrust washer, part No. 35216-79. When pressing in needle bearing, press on printed side of bearing cage. Outer face of bearing cage should be flush with washer seating face--do not bottom the bearing in the hole when pressing in.

After assembling sprocket on mainshaft, be sure to check for the specified .003 to .009 in. mainshaft end play with preload. Adjust if necessary using variable thickness mainshaft thrust washer according to the procedure in Service Manual, part No. 99484-79.

HARLEY-DAVIDSON MOTOR CO., INC.

ROUTING	 	PARTS MANAGER	CHIEF MECHANIC	MECHANIC NO. 1	 	MECHANIC NO. 4	RETURN THIS TO:
INITIAL							
HERE-	 			l			