

SERVICE BULLETIN

M-906

August 19, 1985



IDENTIFICATION OF EARLY AND LATE SPORTSTER TRANSMISSION GEARS

General

There has been a change in transmission gears in XL models as shown in Table 1 below.

All XLH 1100 transmissions will only contain "late" style gear sets. XLH 883 transmissions contain "early" style gear sets. Late style gears will be incorporated in XLH 883 transmissions as a running change. Either "early" or "late" style gears can be used in XLH 883 transmissions and all Sportster transmissions back to and including 1957 models.

WARNING

Only late style gears may be installed in XLH 1100 transmissions.

Gear Identification

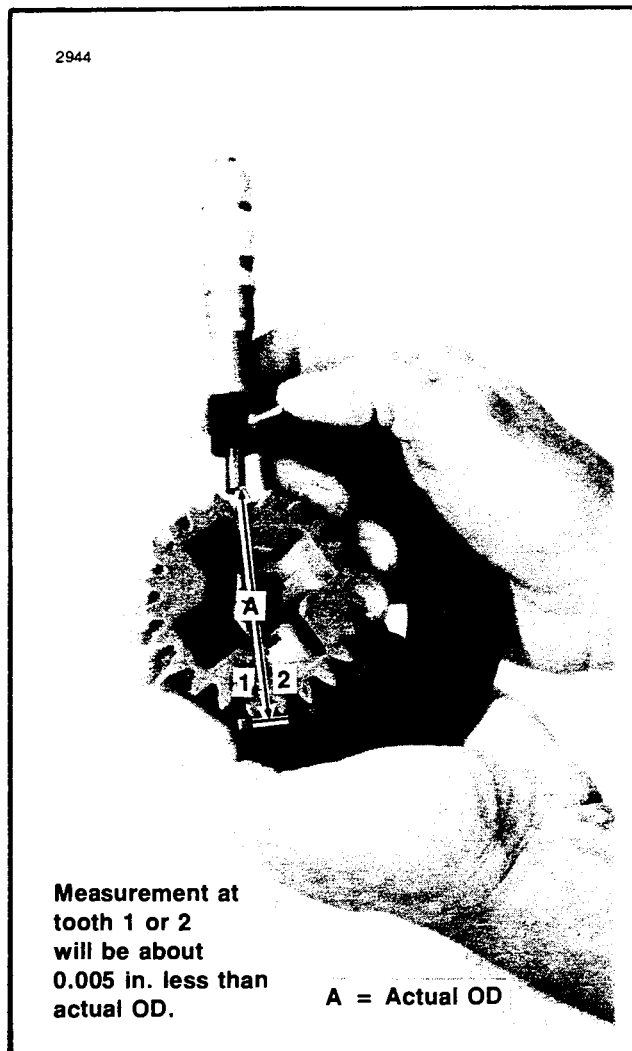
The "early" and "late" gears have different part numbers but, the only method of identifying whether a gear is "early" or "late" is to measure the outside diameter (OD) of the gears with a micrometer as shown in Figure 1. The OD of "late" style gears is approximately 0.025 in. **smaller** than "early" style gears.

Replacement Gears

Only "late" style gears will be sold and may be run with either "early" or "late" mating gears. The only exception is the XLH 1100. This model **must** have "late" style gears only.

WARNING

Do not use "early" style gears in XLH 1100 transmissions.



Measurement at tooth 1 or 2 will be about 0.005 in. less than actual OD.

A = Actual OD

Figure 1. Measuring 23 Tooth Gear OD

TABLE I

GEAR	NUMBER OF TEETH	EARLY STYLE		LATE STYLE	
		PART NO.	OD IN.	PART NO.	OD IN.
Countershaft 2nd Gear	20	35750-58	2.448 - 2.452	35750-58A	2.423 - 2.428
Countershaft 3rd Gear	23	35709-54A	2.648 - 2.657	35709-54B	2.622 - 2.627
Mainshaft 2nd Gear	23	35296-56	2.648 - 2.657	35296-56A	2.622 - 2.627
Mainshaft 3rd Gear	20	35305-56	2.448 - 2.452	35305-56A	2.423 - 2.428

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