TECHNICAL BULLETIN

MOTORCYCLE
M4-047

TX650A
VALVE CLEARANCES

Revise *cold* engine valve clearances as shown:

	OLD	NEW
INTAKE	0.10mm (0.004 in.)	0.05mm (0.002 in.)
EXHAUST	0.15mm (0.006 in.)	0.10mm (0.004 in.)

Due to a valve train configuration change, the above specifications are different from all previous 650 models. For reference, see following chart.

MODEL	INTAKE	EXHAUST
XS1 XS1B XS2 TX650	0.003 in. (0.074mm) (cold)	0.006 in. (0.15mm) (cold)

NOTE: When checking cam timing, set all valves at 0.012" (cold), per Motorcycle Service News Bulletin No. 236, page 2. After cam timing check, reset valves to above specifications.

MOTORCYCLE
M4-082

4-STROKE MODELS
CHOICE OF ENGINE OIL AFFECTS WARRANTY COVERAGE

In order to maintain warranty coverage and to insure maximum performance and engine life for Yamaha 4-stroke motorcycles, one of the oils listed below must be used.

FIRST CHOICE -- Yamalube 4-cycle
SECOND CHOICE -- Name brand 20W-40 detergent motor oil with the 'SE' performance rating.
THIRD CHOICE -- Name brand 10W-30 detergent motor oil with the 'SE' performance rating.

NOTE: 10W-30 oil is preferred for operation in cold weather (below 32°F.). 10W-30 oil is definitely not recommended for hot weather operation (above 80°F.).

Check the top of the oil can, acceptable oils will have the following information:

1. S.A.E. viscosity index - '20W-40' or '10W-30'
2. A.P.I. performance rating 'SE'

If the top of the can does not have both of these designations, the oil is not acceptable.

CAUTION: Do not use NON-DETERGENT or AIRCRAFT engine oils. They do not have the anti-wear and other necessary properties of the 'SE' rated oils.