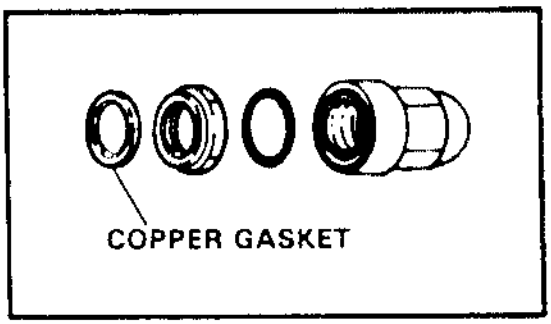
XS650F/2F/SF
OIL SEEPAGE DIAGNOSIS and REPAIR

In a number of instances, oil seepage at the rear of the engine cases has been diagnosed as a base gasket leak when the actual problem is the leakage at the cam chain tensioner locknut gasket (see illustration). Before replacing any components it is helpful to use the powder-check leak detection procedure to accurately determine the origin of any oil leak. Please refer to the procedure outlined below.

AFFECTED MODELS

XS650F	2F0-022000 and later
XS650-2F	All
XS650SF	2F0-158951 and later



TRACING THE EXACT SOURCE OF LEAKAGE (POWDER-CHECKING):

1. Thoroughly clean the rear of the engine around the base gasket and cam chain tensioner housing. First use a degreaser such as Yamaha Mud and Grease Release, then blow dry with compressed air to leave a clean, dry surface.

2. Spray the area around the base gasket and cam chain tensioner housing with a light coating of powder-based anti-perspirant or powder-based aerosol foot spray.

3. Start the engine, allow to warm and watch for the powder to darken, indicating the exact point of seepage. If the leak is very minor, the machine should be test ridden, then stopped and inspected every 1/2 mile or so until the leak shows itself.

CORRECTING SEEPAGE

1. If the source of the leak is at the cam chain tensioner, correct by first removing the adjuster cap nut, O-ring, retaining nut and copper gasket.

2. Discard the copper gasket and install a new one.

3. Reassemble the retaining nut, O-ring, and cap nut.

PARTS ORDERING

PART NUMBER	DESCRIPTION	DEALER PRICE
90430-18130-00	Copper Gasket	