



breather and to check oil pump alignment, it is necessary to remove these parts.

See Fig. 3D-10. Thoroughly clean exterior of pump in gasoline or cleaning solvent before further disassembly. Remove the five crankcase stud nuts that secure the oil pump to the crankcase. Slip the pump off the studs as one unit. If difficult to remove, take a piece of brass and tap on breather sleeve that extends into gearcase compartment. To disassemble the check valve see "Disassembling Oil Pump Check Valve."

Free the oil pump body plate (5) from pump body. Discard gasket (6). Remove retaining ring (7) (with "Tru-Arc" pliers) or split key 7A. Remove scavenger gears (8 and 9). Remove key (10). Free oil feed pump cover (11) and breather valve (19) as one assembly from pump body. Discard gasket (12). Free gears (13 and 14) from pump body. Pry oil seal (15) from pump body (16) and discard seal. Discard gasket (17).

With a punch remove lock pin (18) and free oil pump breather valve gear and shaft (19) from oil pump cover (11).

NOTE

Remove lock pin (18) only if inspection or replacement of shaft (19) and cover (11) is necessary.

Remove breather valve screen (20) from crankcase. Remove idler gear shaft (21) only if replacement is necessary. Shaft is a press fit.

CLEANING AND INSPECTING OIL PUMP (Fig. 3D-10)

First clean all parts in gasoline or cleaning solvent. Blow out all oil holes and passages with compressed air. Replace any parts that are worn or damaged.

Figure 3D-10. Oil Pump - Exploded View