FORD

Service Manual

Tractors
TW-10, TW-20, TW-30

42001030

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1. DESCRIPTION AND OPERATION

The engine described in this manual is a six cylinder diesel "in-line" type with direct fuel injection and overhead valve design. The displacement amounts to 401 cu. in. (6580 cc), the bore to 4.4 in. (111.76 mm) and the stroke to 4.4 in. (111.76 mm). Because of the bore and stroke dimensions it is referred to as a square engine.

This part of the manual deals with the disassembly, inspection, repair, and assembly of the engine, lubrication system and the cooling system.

CYLINDER HEAD ASSEMBLY — INCLUDING VALVE TRAIN COMPONENTS

The cylinder head assembly incorporates the valves, valve springs, and rotators. The valve rocker arm shaft assembly is bolted to the cylinder block, through the head. The intake and exhaust manifolds are bolted to the head. The intake manifold is on the right side of the engine, and the exhaust manifold is on the left side.

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