TC18, TC21, TC21D CONTENTS

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SECTION 1 ENGINE SYSTEMS

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GENERAL INFORMATION

DESCRIPTION AND OPERATION

This section describes the engine overhaul and repair procedures of the Models TC18, TC21, and TC21D tractors. Repair procedures are essentially the same for all models except as noted in the repair procedures.

The tractors are equipped with three-cylinder in-line engines. They are all four cycle, overhead valve, liquid cooled engines. The engines are identified by a code cast into the lower right side of the cylinder block, just behind the hydraulic pump. The identification numbers of the engines used is shown in the following chart.

IDENTIFICATION CHART

ENGINE IDENTIFI- CATION	TRACTOR MODEL	HORSE- POWER
S753	TC18	18.5
S773	TC21 & TC21D	21.0

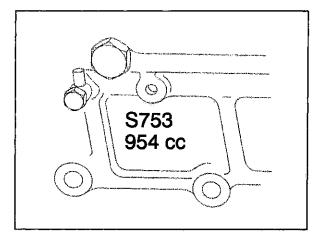


Figure 1-1

CYLINDER HEAD AND VALVE TRAIN COMPONENTS

The cylinder head incorporates the valve assemblies, rocker arms, rocker shaft, push rods, lifters, and pre-combustion chambers. The air intake manifold is incorporated into the left hand side of the valve cover assembly. The exhaust manifold is bolted on the left-hand side of the cylinder head. The cylinder heads have integral valve guides. Standard size valves only are used. Figure 1-2 provides a cut-away front and side view of an engine.

A pre-combustion chamber is located between the injector assembly and the combustion chamber of the cylinder and provides an area for initial ignition of the fuel for improved starting. A glow plug located in the head extends into the pre-combustion chamber and, when energized, pre-heats the fuel-air mixture for improved fuel ignition under cold weather conditions.

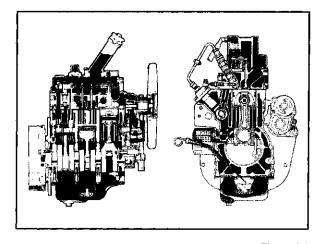


Figure 1-2



Thank you very much for your reading.

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