



Fig. 1-1. Front view of the engine.

### ENGINE DESCRIPTION

The 400-120 engine is a four-cylinder, four-stroke, water-cooled, diesel engine with a rated output of 400 hp at 1200 rpm. The engine is designed to operate at 1200 rpm and has a maximum speed of 1500 rpm. The engine is equipped with a mechanical governor and a mechanical fuel pump. The engine is mounted on a base and has a cooling fan at the front.

The fuel system consists of a fuel tank, fuel pump, and fuel lines. The fuel pump is driven by the engine and delivers fuel to the injectors. The injectors spray fuel into the combustion chamber, where it is ignited by the heat of the compression.



Fig. 1-2. Side view of the engine.

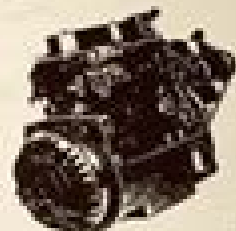


Fig. 1-3. Rear view of the engine.

The fuel injection pump is located at the rear of the engine and is driven by the engine. It delivers fuel to the injectors, which spray it into the combustion chamber. The injectors are controlled by a mechanical governor, which maintains a constant speed of 1200 rpm.



Fig. 1-4. Detail view of the fuel injection pump.

### SECTION II - PART 2

The engine is equipped with a mechanical governor, which maintains a constant speed of 1200 rpm. The governor is located at the rear of the engine and is driven by the engine. It controls the fuel injection pump, which delivers fuel to the injectors.

### ENGINE SERIAL NUMBER

Each engine has a serial number, which is stamped on the rear of the engine. The serial number is used to identify the engine and to determine its service history.

### ROCKER ARM SHAFT ASSEMBLY

The rocker arm shaft assembly is located at the rear of the engine. It consists of a shaft, rockers, and pushrods. The shaft is driven by the engine and operates the rockers, which in turn operate the pushrods, which operate the injectors.

1. Disconnect the rocker arm shaft from the engine.
2. Disconnect the rocker arm shaft from the injectors.
3. Remove the rocker arm shaft from the engine.
4. Remove the rocker arm shaft from the injectors.
5. Remove the rocker arm shaft from the engine.
6. Remove the rocker arm shaft from the injectors.

### DISASSEMBLY

Before disassembling the engine, it is important to remove the fuel lines and the cooling fan. The fuel lines should be disconnected from the fuel pump and the injectors. The cooling fan should be removed from the front of the engine.

### REPAIR

Check all parts of the engine for wear and tear. Replace any worn or damaged parts. Check the oil level and change the oil if necessary. Check the water level and add water if necessary.



Fig. 1-5. Detail view of the rocker arm shaft assembly.

# Perkins Ad3 152 Repair Manual

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