

WAVEY ENGINE

SECTION 1 - PART 1



Fig. 1-1. Front view of the engine showing the cylinder block, crankshaft, and various components.



Fig. 1-2. Side view of the engine showing the cylinder block, crankshaft, and various components.

ENGINE DESCRIPTION

The 400-120 engine is a four-cylinder, four-stroke, water-cooled, diesel engine with a total displacement of 400 cu in. The engine is designed to operate at 1200 rpm and has a maximum output of 120 hp. The engine is equipped with a fuel injection system and a turbocharger. The engine is mounted on a base and has a cooling fan at the front. The engine is designed to be used in a variety of applications, including power generation and propulsion.

The fuel system consists of a fuel tank, fuel pump, and fuel injectors. 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 a glow plug. The combustion chamber is located in the cylinder block, and the fuel is injected into it through the injectors.



Fig. 1-3. Detail view of the engine showing the fuel injection system and other components.



Fig. 1-4. Detail view of the engine showing the crankshaft and other components.

SECTION 1 - PART 2

The engine is designed to be used in a variety of applications, including power generation and propulsion. The engine is equipped with a fuel injection system and a turbocharger. The engine is mounted on a base and has a cooling fan at the front. The engine is designed to be used in a variety of applications, including power generation and propulsion.

ENGINE SERIAL NUMBER

Each engine has a serial number which is stamped on the cylinder block. The serial number is used to identify the engine and to determine its service history. The serial number is also used to determine the date of manufacture of the engine.

ROCKER ARM SHAFT ASSEMBLY

The rocker arm shaft assembly is a critical component of the engine. It is responsible for opening and closing the intake and exhaust valves. The rocker arm shaft assembly consists of a shaft, rocker arms, and a pushrod. The shaft is driven by the camshaft, and the rocker arms are connected to the pushrod. The pushrod is connected to the intake and exhaust valves.

1. Inspect the rocker arm shaft assembly for wear and damage. If the rocker arm shaft assembly is worn or damaged, it should be replaced.
2. Inspect the rocker arm shaft assembly for proper adjustment. The rocker arm shaft assembly should be adjusted so that the rocker arms are properly timed to open and close the intake and exhaust valves.
3. Inspect the rocker arm shaft assembly for proper lubrication. The rocker arm shaft assembly should be lubricated with oil.
4. Inspect the rocker arm shaft assembly for proper alignment. The rocker arm shaft assembly should be aligned so that the rocker arms are properly timed to open and close the intake and exhaust valves.

DISASSEMBLY

Before disassembling the engine, it is important to remove the fuel system and the cooling system. The fuel system should be disconnected from the engine, and the cooling system should be drained. The engine should be cleaned and the components should be labeled. The engine should be disassembled in the following order: 1. Remove the rocker arm shaft assembly. 2. Remove the pushrod. 3. Remove the intake and exhaust valves. 4. Remove the cylinder head. 5. Remove the crankshaft. 6. Remove the base.

RESECTION

Each of the parts of the engine should be inspected for wear and damage. If any of the parts are worn or damaged, they should be replaced. The engine should be reassembled in the following order: 1. Install the base. 2. Install the crankshaft. 3. Install the cylinder head. 4. Install the intake and exhaust valves. 5. Install the pushrod. 6. Install the rocker arm shaft assembly. 7. Reconnect the fuel system and the cooling system.

ENGINE LUBRICATING SYSTEM



Fig. 1-5. Diagram of the engine lubricating system showing the oil pump, oil filter, and oil passages.

The engine lubricating system is responsible for delivering oil to the engine components. The system consists of an oil pump, an oil filter, and oil passages. The oil pump is driven by the engine and delivers oil to the oil filter. The oil filter filters the oil and then delivers it to the oil passages. The oil passages deliver oil to the engine components, including the cylinder walls, the crankshaft, and the rocker arm shaft.

The oil passages are located in the cylinder block and the crankshaft. The oil passages are designed to deliver oil to the engine components in a controlled manner. The oil passages are also designed to prevent oil from leaking out of the engine.

Before disassembling the engine, it is important to remove the oil system. The oil system should be disconnected from the engine, and the oil should be drained. The engine should be cleaned and the components should be labeled. The engine should be disassembled in the following order: 1. Remove the oil pump. 2. Remove the oil filter. 3. Remove the oil passages.

1. Remove the oil pump. The oil pump is located at the front of the engine. It is connected to the oil filter and the oil passages.
2. Remove the oil filter. The oil filter is located at the front of the engine. It is connected to the oil pump and the oil passages.
3. Remove the oil passages. The oil passages are located in the cylinder block and the crankshaft. They are connected to the oil pump and the oil filter.

Perkins Ad3 152 Repair Manual

Tao Wei



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