

# MANITOWOC 100-150 ENGINE

## SECTION 1 - PART 1



Fig. 1 - Front View of the 100-150 Engine



Fig. 2 - Side View of the 100-150 Engine

### ENGINE DESCRIPTION

The 100-150 engine is a four-cylinder, four-stroke, water-cooled, diesel engine with a rated output of 100 to 150 horsepower at 2200 rpm. The engine is designed for use in a variety of applications, including power generation, propulsion, and industrial power. 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 for easy maintenance and repair.

The fuel system is a direct injection system. The fuel is injected into the combustion chamber through a fuel injector. The fuel is supplied to the injectors by a fuel pump. The fuel pump is driven by the engine. The fuel system is designed to provide a precise amount of fuel to the injectors at the correct time.



Fig. 3 - Detail View of the 100-150 Engine



Fig. 4 - Detail View of the 100-150 Engine

# MANITOWOC 100-150 ENGINE

## SECTION 2 - PART 2

### ENGINE DESCRIPTION

The engine is a four-cylinder, four-stroke, water-cooled, diesel engine with a rated output of 100 to 150 horsepower at 2200 rpm. The engine is designed for use in a variety of applications, including power generation, propulsion, and industrial power. 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 for easy maintenance and repair.

### ENGINE SERIAL NUMBER

Each 100-150 engine has a serial number stamped on a metal plate located on the front of the engine. The serial number is used to identify the engine and to track its history.

### ROCKER ARM SHAFT ASSEMBLY

The rocker arm shaft assembly is located at the front of the engine. It is responsible for operating the intake and exhaust valves. The assembly consists of a shaft, rockers, and pushrods.

1. Remove the rocker arm shaft assembly from the engine.
2. Inspect the rocker arm shaft assembly for wear and damage.
3. Replace the rocker arm shaft assembly if necessary.
4. Reinstall the rocker arm shaft assembly on the engine.
5. Adjust the rocker arm clearance.
6. Test the engine to ensure proper operation.

### DISASSEMBLY

Before disassembling the engine, it is important to ensure that the engine is properly supported. The engine should be supported by a stand or a similar device. The engine should be disconnected from the power source. The engine should be cleaned and inspected for wear and damage. The engine should be disassembled in the following order: 1. Remove the rocker arm shaft assembly. 2. Remove the pushrods. 3. Remove the rockers. 4. Remove the intake and exhaust valves. 5. Remove the cylinder head. 6. Remove the block.

### RESECTION

Each 100-150 engine is a unique assembly. The engine is designed to be easily maintained and repaired. The engine is equipped with a variety of features to make it easy to service. The engine is designed for long life and reliable operation.



Fig. 5 - Detail View of the 100-150 Engine

| Part Number | Description   |
|-------------|---------------|
| 100-150-100 | Engine Block  |
| 100-150-101 | Cylinder Head |
| 100-150-102 | Pushrod       |
| 100-150-103 | Rocker Arm    |
| 100-150-104 | Intake Valve  |
| 100-150-105 | Exhaust Valve |

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# Y Engine Manual

**D Kirk**



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