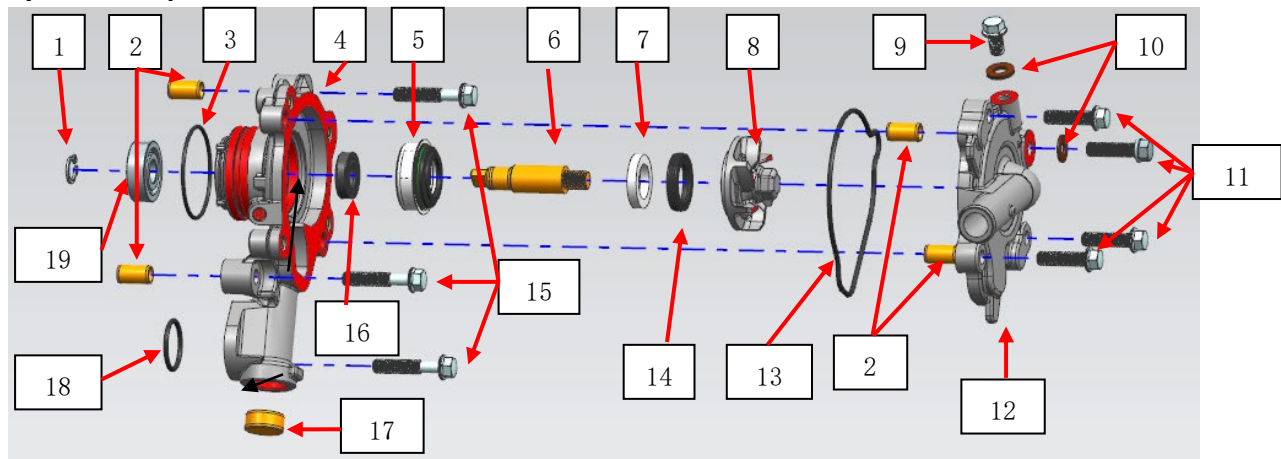


②if the measured cylinder pressure is lower than the normal value, pour a small amount of clean engine oil from the spark plug, turn the crankshaft a few times, so that the piston ring and cylinder wall are evenly covered with oil film, and retest the cylinder pressure. If the cylinder pressure measured after pouring oil is greater than the last cylinder pressure value, please dismantle the machine and check the piston and piston ring.

5. Use the spark plug tool to install the spark plug in place and tighten it with a fixed torque (fixed torque: 14±1 N.m).

Water pump

System components

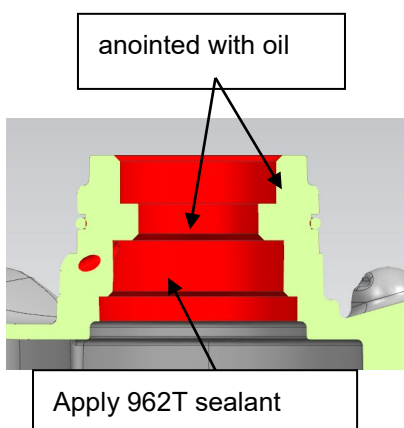
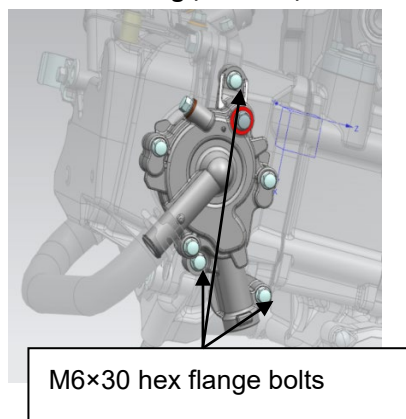


No.	Part name	Quantity	No.	Part name	Quantity
1	Gb894.1 shaft retaining ring $\phi 10$ (oxidized black)	1	11	M6×22 hexagon flange fully threaded bolts (grade 8.8/zinc)	4
2	$\Phi 8 \times 14$ hollow positioning pin	4	12	ZT1P58MJ water pump cover	1
3	$\Phi 36 \times 1.9$ acrylic O-ring	1	13	ZT1P58MJ water pump cover sealing ring	1
4	ZT1P58MJ water pump housing	1	14	Water seal moving ring rubber	1
5	Water seal static ring	1	15	M6×30 hex flange bolts	3
6	ZT1P58MJ water pump shaft	1	16	Fb12×20×5 fluorine rubber oil seal	1
7	Water seal moving ring ceramics	1	17	$\varnothing 16.5 \times 7.5$ water plug	1
8	ZT1P58MJ water pump blade	1	18	18.2×2.4 EPDM rubber O-ring	1
9	M6×10 top pin bolt (zinc)	1	19	Gb/t 276-6000-p5c3 deep groove ball bearings	1
10	6.3×12×1.6 copper gasket	2			

Assembly

- Remove 3 m6×30 hexagonal flange bolts counterclockwise with a torque wrench (or air batch) and an extended outer hexagon socket -8#, remove the water pump from the engine, and then remove the $\phi 36 \times 1.9$ acrylic o-type ring, 18.2×2.4 EPDM O-ring and two $\phi 8 \times 14$ hollow positioning pins.
- Use a torque wrench (or air batch) and an extended outer hexagon socket -8# Assembly 4 m6×22 hexagonal flange full-threaded bolts and 1 m6×10 top pin bolt (zinc) on the water pump cover counterclockwise. Zinc), remove the water pump cover, water pump cover sealing ring, 2 copper gaskets and 2 $\phi 8 \times 14$ hollow positioning pins.
- Use a 12# wrench to rotate counterclockwise to loosen and remove the water pump blade, and take out the water seal moving ring ceramic and water seal moving ring rubber.
Take out the water pump shaft, use a flat-blade screwdriver to extend from the bearing hole until it contacts the water seal, and then tap it slowly to knock out the water seal.

Use a flathead screwdriver to pry out the oil seal, and then knock out the bearing to complete the disassembly of the water pump. **(note: when the water pump is running normally without failure, it is not recommended Assembly the water pump, internal bearings, oil seals, and water seals.)**



Inspection

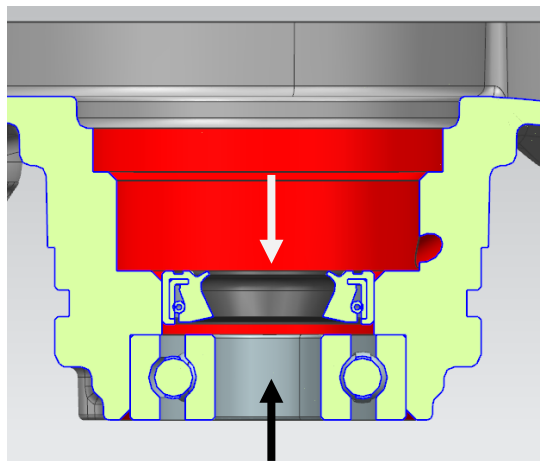
1. Check the water pump cover ring and 18.2×2.4 O-ring on the water pump cover . If there are any defects such as wear and edge trimming, replace the O-ring with a new one to prevent water leakage due to poor sealing .
2. Check whether the threads of the water pump blades and the water pump shaft are slippery.
3. Check the water pump shaft and blades for cracks, damage, wear, etc. If they are defective, replace them with new ones.

Install

1. Take a new fb12×20×5 fluorine rubber oil seal and press it to the position shown in the figure below. After installation, measure the depth to confirm whether it is installed in place.

Remarks: ① apply engine oil to the oil seal installation hole and install the oil seal.

②fb12×20×5 fluorine rubber oil seal pressing depth: the distance from the end face of the oil seal to the joint surface of the pump cover is 23.4 (-0.2,0) mm or the end face is even.



2. Check whether the bearing rotates smoothly. If the bearing rotates stuck, replace it with a new one. After oiling the bearing hole, use a special pressure head to press the bearing into place.

Note: bearing model: gb276—6000/p5c3 deep groove ball bearing.

3. Take a new water seal, check to make sure that the surface of the water seal is clean and free of debris, apply 962t bowl-shaped plug sealant on the hole where the water seal is installed, and press the water seal in place with the special pressure head for installing the water seal.