

Installation Instructions

Product: 7MGE / 7MGTE Oilpump Retainer Plate
SKU: CNC-7M-retainer-plate

CRONESIX

Installation Instructions



Important:

This product is intended exclusively for motorsport applications on closed test tracks and is **not road-legal**.

Installation must be carried out by a **certified professional** within a recognized company to qualify for replacement.

Technical data:

Mechanical

Material: 42CrMo4 carbon tool steel

Surface treatment: Black Oxide

Bearing: SKF Axial Needlebearing

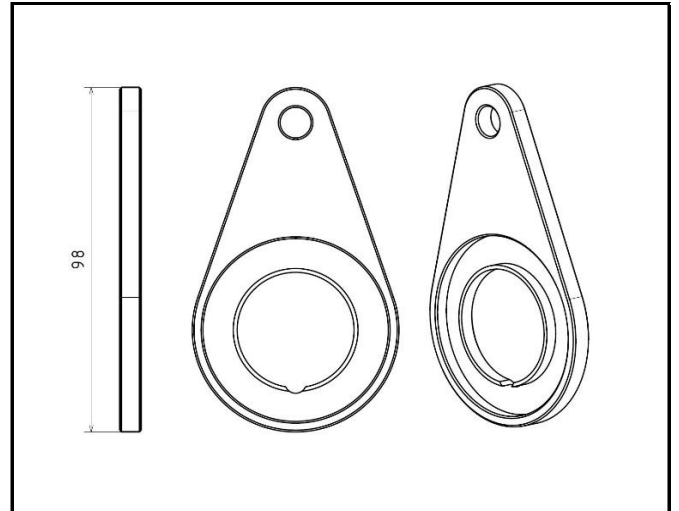
Manufacturing Process: CNC Milling

Technical specifications (Oil Pump drive shaft):

Standard journal diameter Front 40,959 - 40,975mm

Standard journal diameter Rear 32,959 - 32,975mm

Product Overview:



Safety Instructions:

- For detailed **general safety** instructions, visit: www.cronesix.de/Instructions
- Ensure the **correct torque** is applied during the installation of all components.
- Ensure **proper installation** of the timing belt.

Step-by-Step Instructions

1. Remove the engine or disassemble the radiator and all covers:

Remove all covers, including the front timing cover and the cover behind the Oilpump Gear.

Note: The oil pan screws must also be removed to access the timing cover.

2. Loosen the oil pump gear bolt and remove the timing belt:

Slightly loosen the bolt on the oil pump gear, then remove the timing belt.

3. Remove the retainer plate screw and extract the shaft:

Unscrew the bolt holding the retainer plate in place and carefully pull out the shaft.

4. Inspect the shaft bearings for wear:

Check the dimensions of the shaft bearings for signs of wear. Refer to the technical specifications.

5. Remove the old oil pump gear seat:

Use a bearing puller to remove the old seating area of the oil pump gear from the Oil pump shaft.

Instructions continue on the next page.

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6. Replace the retainer plate:

Remove the old retainer plate and install the new retainer plate along with the axial bearing.

Note: Pre-lubricate the axial bearing with motor oil before installation.

7. Install the new seating area for the gear:

Press or tap the new gear seating area onto the shaft using a press or a hammer.

8. Check for smooth rotation:

Verify that the retainer plate can rotate freely.

9. Reinstall the shaft:

Apply oil to the bearing surfaces and reinsert the shaft. Rotate the shaft slightly during installation to ensure it properly engages with the internal splines.

Note: Replacing the oil seal is recommended if necessary.

10. Secure the retainer plate screws:

Apply medium-strength Loctite to the retainer plate screws and tighten it to 14 Nm (10.3 ft/lbs).

11. Reassemble the timing cover and oil pump gear:

Reinstall the timing cover and the oil pump gear. Verify that everything rotates freely.

Note: A slight stickiness at the start of rotation is normal due to oil on the bearing surfaces.

12. Reassemble the engine:

Follow the workshop manual to complete the engine assembly. If previously removed, reinstall the engine into the vehicle.