

Installation Instructions

Product: 7MGE / 7MGTE Aluminum Oilpump gear upgrade
SKU: CNC-7M-OIL-Gear

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

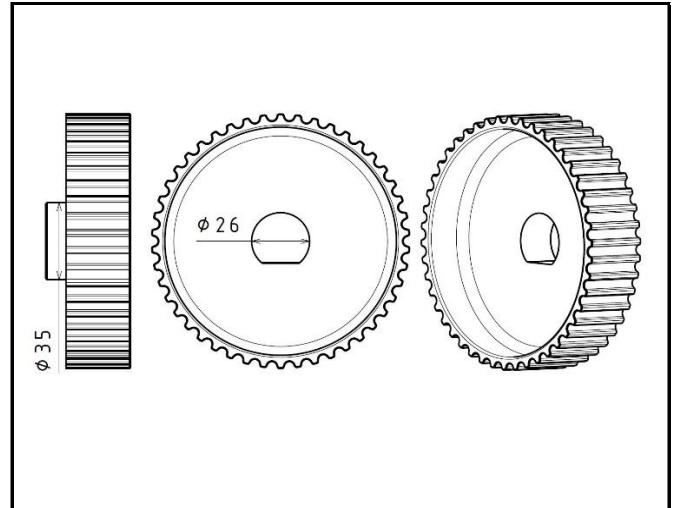
Material: EN-AW-7075 T6 Aluminum

Surface Treatment: Hard- Anodized

Geometrie: 1:1 Original Geometrie (no Overdrive)

Manufacturing Process: CNC Millturning, Wire EDM

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. Turn the engine to Cylinder 1 TDC (Top Dead Center):

Rotate the engine until Cylinder 1 is at TDC.

2. Remove the crankshaft pulley/cover:

Remove the crankshaft pulley and the corresponding covers.

3. Loosen the oil pump gear bolt:

Slightly loosen the bolt of the oil pump gear while the timing belt is still installed.

4. Release the tensioner and remove the spring and timing belt:

Release the tensioner, remove the spring, and take off the timing belt.

5. Replace the oil pump gear:

Remove the old oil pump gear and install the new one. Lightly tighten the bolt (recommendation: use a small amount of Loctite).

Instructions continue on the next page.

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6. Check the gear for smooth rotation:

Ensure the gear rotates freely without obstruction.

7. Reinstall the timing belt:

Refit the timing belt, ensuring that all TDC marks align correctly.

8. Re-tension the belt:

Hook the tensioner spring back in place, then manually add some extra tension to the tensioner while tightening the bolt to 48 Nm (35.4 ft/lbs).

9. Tighten the oil pump gear bolt:

Secure the oil pump gear bolt with a torque of 22 Nm (16.2 ft/lbs).

10. Manually rotate the engine:

Turn the engine by hand and verify that all TDC marks align properly.

11. Reassemble the engine:

Complete the assembly of the engine by reinstalling all removed components.