

Installation Instructions

Product: M30/M10 Oil Spray Bar Upgrade Kit

SKU: M30_Oelrail_Upgrade_Kit / M10_Oelrail_Upgrade_Kit

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:

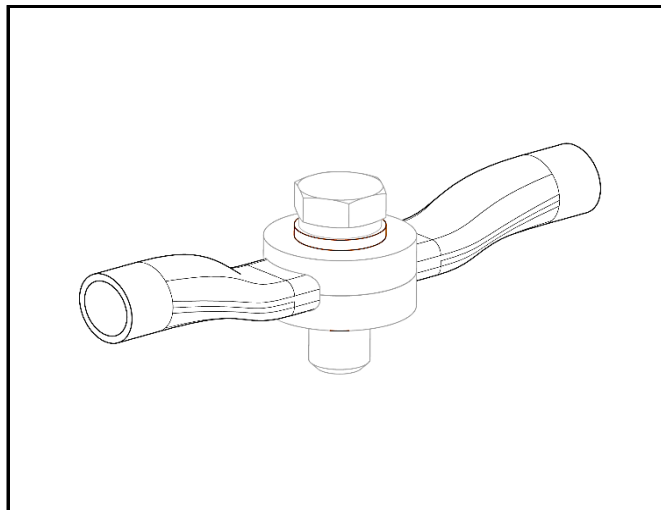
Mechanical

Material: EN-AW-6061 Aluminum

Surface Treatment: Bead blasting

Manufacturing Process: CNC Millturning

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.

Step-by-Step Instructions - Standard Method

1. Remove the valve cover

Remove the valve cover and any components that block access to the oil spray bar.

2. Loosen the cylinder head bolts securing the oil rail

Carefully loosen the four cylinder head bolts that hold the oil spray bar in place.

3. Remove the banjo bolts

Loosen and remove the two banjo bolts.

⚠ Make sure the copper washers do not fall into the cylinder head.

4. Remove the oil spray bar

Take out the oil spray bar and clean the copper washer seats on the cylinder head.

5. Clean the oil spray bar and O-ring seats

Flush the spray bar if possible and clean the areas where the O-rings will sit.

6. Inspect for deformation

Check the O-ring contact areas for distortion caused by over-tightening.

If the surface is crushed or deformed, the O-ring will not seal properly and must be corrected before reassembly.

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7. Install the O-rings

Place the O-ring into both reinforcement half-shells.

8. Install lower half-shells and copper washers

Place one copper washer onto each banjo bolt hole, then install the lower half-shells.

9. Install the oil spray bar

Position the spray bar correctly onto the cylinder head.

10. Install upper half-shells and banjo bolts

Fit the upper half-shells and second copper washers.

Install the new banjo bolts (11 mm hex) and tighten to: **10 Nm (7.4 ft-lbs)**

11. Reinstall cylinder head bolts with new washers

Install the **new washers** underneath the oil spray bar retaining plate to ensure proper spacing and prevent bending of the oil spray bar, then install the cylinder head bolts.

The old washers are not reused.

Assembly order:

Cylinder head → **New washer** → Oil spray bar retaining bracket → Cylinder head bolt

⚠ Note: It is recommended to **replace the cylinder head bolts**, as they are torque-to-yield bolts. Tighten the bolts in a criss-cross pattern according to the manufacturer's specified torque and tightening procedure.

12. Reinstall valve cover

Install the valve cover (replace gasket if required) and reinstall all removed components.

Instructions continue on the next page.

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Step-by-Step Instructions - Alternative Method (Without Removing Head Bolts)

⚠ This method is more difficult but avoids loosening the cylinder head bolts.

With this installation method, the new washers are not used.

The spray bar is slightly bent during installation, however this has been tested and does not cause any functional issues or reliability problems.

1. Remove banjo bolts and washers

Loosen both banjo bolts and remove all four copper washers.

2. Clean components

Clean the oil spray bar and the copper washer seating surfaces.

3. Install the O-rings

Place the O-ring into both reinforcement half-shells.

4. Lift the oil spray bar carefully

Using a small lever, gently lift the spray bar upward at the mounting side.

⚠ Do **NOT** pry against the camshaft.

5. Inspect for deformation

Check the O-ring contact areas for distortion caused by over-tightening.

If the surface is crushed or deformed, the O-ring will not seal properly and must be corrected before reassembly.

6. Insert lower half-shells and copper washers

Carefully slide a copper washer and lower half-shell under the spray bar.

Repeat on the opposite side.

7. Install upper half-shells

Place the upper half-shells with copper washers on top.

8. Install banjo bolts

Install the banjo bolts and tighten to: **10 Nm (7.4 ft-lbs)**

9. Reinstall valve cover

Reinstall the valve cover (replace gasket if necessary) and all removed components.

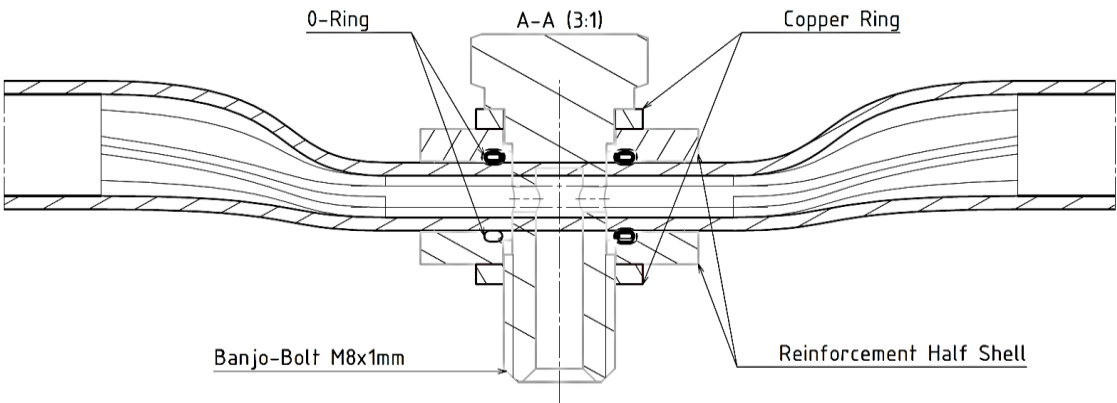
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Section View



Revision History

Revision	Date	Author	Description of Changes	Status
1.0	01.02.2026	JM	Initial creation of the document	Released
1.1	08.02.2026	JM	Added information regarding washer usage during installation.	Released