maXpeedingrods NT24@CR-OPEL-129.75

maXpeedingrods Connecting Rods Instruction Manual

Brand: maXpeedingrods | **Model:** NT24@CR-OPEL-129.75

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your maXpeedingrods Connecting Rods. These high-performance connecting rods are engineered for enhanced strength and durability, designed for racing applications and demanding engine conditions. Proper installation and adherence to these guidelines are crucial for optimal performance and longevity.



Figure 1: maXpeedingrods H-Beam Connecting Rods

2. Application

These connecting rods are specifically designed for the following Opel/Vauxhall 1.6L 16V engines and models:

- For Opel Corsa GSi 1993–1994 C16XE
- For Opel Astra G 1.6L 16V X16XE
- For Opel Corsa B 1.6L 16V X16XE
- For Opel Tigra A 1.6L 16V X16XE
- For Opel Vectra B 1.6L 16V X16XE

- For Opel Zafira B 1.6L 16V X16XE

The connecting rods are designed for a floating pin piston type.

3. Key Features

- **Material:** Forged SAE 4340 Chrome Moly Steel, ensuring the highest strength and durability, dedicated for racing applications.
- **Bolts:** Includes ARP 2000 5/16" bolts, rated at 220,000 psi. Optional ARP L19 fasteners are available as an upgrade, rated at 260,000 psi.
- **Design:** H-Beam design reduces weight without compromising strength.
- **Treatment:** Heat-treated and shot-peened for consistent strength and to remove potential stress risers.
- **Precision:** Bores finished to +/- 0.01 mm for precise fitment.
- **Balance:** Each rod is balanced to within +/- 1 gram per rod for smooth engine operation.
- **Quality Assurance:** Each rod is magnetic particle tested to ensure freedom from flaws, and undergoes X-rayed and sonic testing.
- **Advertised Horsepower Rating:** 200HP per piece.
- **Top Acceleration:** Designed for up to 9000 RPM.



Figure 2: H-Beam Design for Strength and Weight Reduction



Figure 3: ARP 2000 Bolts for Secure Fastening

4. Dimensions

The precise dimensions of the connecting rods are as follows:

- **Center to center length:** 129.75mm / 5.108"
- **Big end diameter:** 46mm / 1.811"
- **Small end diameter:** 18mm / 0.709"
- **Big end width:** 21.8mm / 0.858"
- **Small end width:** 17.9mm / 0.705"



Figure 4: Connecting Rod Profile

5. Setup & Installation

Professional installation of these connecting rods is highly recommended due to the precision required and the critical nature of engine components. Incorrect installation can lead to severe engine damage.
Key steps typically involve:

1. Preparation of the engine block and crankshaft.
2. Careful assembly of the connecting rods with pistons and crankshaft.
3. Ensuring proper bearing clearance and lubrication.
4. Torquing the ARP bolts to manufacturer specifications.
5. Thorough inspection and verification of all connections.

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Video 1: Overview of maXpeedingrods Connecting Rods and their installation process. This video demonstrates the manufacturing precision and the steps involved in fitting the rods into an engine block, including measurement, balancing, and final assembly.

6. Operating Considerations

These connecting rods are designed for high-performance applications, including racing, and can withstand top acceleration up to 9000 RPM. When operating an engine equipped with these rods, ensure that all other engine components (crankshaft, pistons, bearings, lubrication system) are also capable of handling the increased stresses associated with high RPM and horsepower output.

Figure 5: High-Performance Application Example

7. Maintenance

As internal engine components, connecting rods do not require routine user maintenance. However, during any engine

rebuild or inspection, it is recommended to:

- Inspect for any signs of wear, cracks, or deformation.
- Verify bolt torque if re-using existing rods (though new bolts are generally recommended for critical applications).
- Ensure proper lubrication during assembly and operation.
- Confirm that the bores remain within specified tolerances.



Figure 6: Precision Measurement during Manufacturing



Figure 7: Quality Inspection of Connecting Rods

8. Troubleshooting

Given that connecting rods are precision-engineered internal engine components, troubleshooting typically involves professional diagnosis of engine performance issues. If you experience unexpected engine noise, loss of power, or other symptoms after installation, it is crucial to consult with a qualified automotive technician immediately.
If you require a specific type of connecting rod not listed on our site, maXpeedingrods offers custom service to help determine your requirements and develop a suitable solution.

9. Technical Specifications

Specification	Value
Manufacturer	maXpeedingrods

Specification	Value
Brand	maXpeedingrods
Item Weight	4.96 pounds
Product Dimensions	11.02 x 8.27 x 3.94 inches
Item Model Number	570
Manufacturer Part Number	NT24@CR-OPEL-129.75
ASIN	B0816QSLNP
Date First Available	November 8, 2019

10. Warranty & Support

For information regarding product warranty, returns, or technical support, please refer to the official maXpeedingrods website or contact their customer service directly. Details can often be found on the product packaging or through the retailer where the product was purchased.
You can visit the maXpeedingrods store on Amazon for more information:maXpeedingrods Store.

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