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› maXpeedingrods Racing Connecting Rods Instruction Manual for Toyota Camry MR2 Celica GT SX 5SFE 5S-FE 2.2L

maXpeedingrods IU64WW

maXpeedingrods Racing Connecting Rods Instruction Manual

Model: IU64WW

1. INTRODUCTION

This manual provides essential information regarding the maXpeedingrods Racing Connecting Rods for Toyota Camry, MR2, and Celica GT SX vehicles equipped with the 5SFE 5S-FE 2.2L engine. These connecting rods are engineered for high-performance applications, offering enhanced strength and durability for demanding engine conditions.



Figure 1: maXpeedingrods Racing Connecting Rods with packaging.

2. PRODUCT SPECIFICATIONS

The maXpeedingrods Racing Connecting Rods are manufactured to precise specifications for optimal performance.

- **Type:** Forged 4340 aircraft chrome moly quality steel, dedicated for racing applications.
- **Quantity:** 4 Pieces per set.
- **Bolts:** Includes Genuine ARP 2000 3/8" bolts. (Upgrade to ARP L19 bolts available at extra cost).
- **Tolerance:** Balanced to +/- 1 gram in set.
- **Piston Bolt Hole Tolerance:** +/- 4/1000mm.
- **Power Rating:** Supports 600hp ~ 800PS per set.
- **Fastening Strength (PSI):** 220,000/230,000 PSI.
- **Torque Specification:** 48 ft-lbs $\approx$ 65 NM.
- **Top Acceleration:** Designed for 7000-9000rpm.

Dimensions:

Measurement	Value
Center to center length	138mm
Big end diameter	55mm
Small end diameter	22mm

Note: Please confirm these dimensions before purchase to ensure compatibility.

3. KEY FEATURES

These connecting rods incorporate several design and manufacturing features to ensure high performance and reliability:

- Forged SAE 4340 Chrome Moly Steel for maximum strength and durability in racing conditions.
- All big and small ends are finished with SUNNEN honing machine for precision.
- Precision alignment sleeves accurately position the rod cap, maintaining big end bore size and preventing cap walk.
- Multi-stage heat treated for enhanced material properties.
- Shot peened to relieve stress and improve fatigue life.
- Equipped with bronzed bushings suitable for floating piston pins.

IMPROVE STRENGTH AND DURABILITY

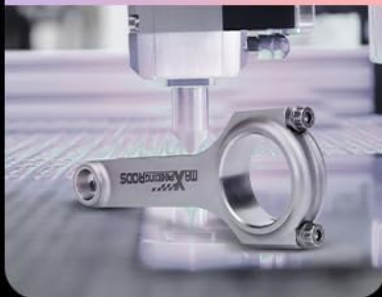


Figure 2: Enhanced strength and durability for performance applications.

H-BEAM DESIGN



Improve stiffness



Reduce stress risers



Reduce weight



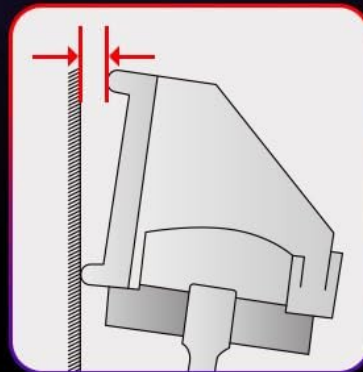
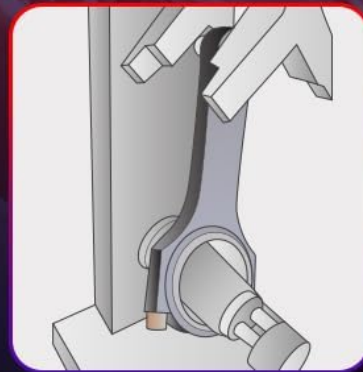
Figure 3: H-Beam design for structural integrity and weight optimization.

ADVERTISED HORSEPOWER RATING: 600HP-800HP



Figure 4: Standard inclusion of ARP 2000 bolts for secure fastening.

BALANCED WITHIN :+/-1 GRAM PER SET
BORES SIZE TOLERANCE: +/- .0004 IN



50% increase in
bending strength

Figure 5: High horsepower rating for demanding engine builds.



Figure 6: Precision balancing and enhanced bending strength.

4. APPLICATION AND COMPATIBILITY

These maXpeedingrods Racing Connecting Rods are specifically designed for the following vehicle models and engine types:

- Toyota Camry (with 5SFE 5S-FE 2.2L engine)
- Toyota MR2 (with 5SFE 5S-FE 2.2L engine)
- Toyota Celica GT SX (with 5SFE 5S-FE 2.2L engine)

Ensure your vehicle's engine matches the specified 5SFE 5S-FE 2.2L type for proper fitment and function.

5. INSTALLATION GUIDELINES

Professional installation is highly recommended for these racing connecting rods. No detailed installation instructions are included with the product due to the specialized nature of engine assembly.

Key considerations for installation include:

- **Engine Disassembly:** Proper procedures for engine removal and disassembly must be followed according to the vehicle's service manual.
- **Component Inspection:** Thoroughly inspect all engine components, including the crankshaft, pistons, and bearings, for wear or damage before installation.
- **Cleaning:** Ensure all parts are meticulously cleaned to remove any debris or contaminants.
- **Lubrication:** Apply appropriate engine assembly lubricant to all bearing surfaces and bolt threads as specified by engine building best practices.
- **Torque Specifications:** Adhere strictly to the specified torque of 48 ft-lbs (≈ 65 NM) for the ARP 2000 connecting rod bolts. Use a calibrated torque wrench.
- **Clearances:** Verify all critical clearances (e.g., rod bearing clearance, side clearance) are within manufacturer specifications.
- **Balancing:** While the rods are balanced to ± 1 gram, consider a full rotating assembly balance for optimal high-performance engine operation.

6. MAINTENANCE

Proper maintenance is crucial for the longevity and performance of racing engine components. While connecting rods themselves require minimal direct maintenance after installation, regular engine maintenance practices are essential:

- **Oil Changes:** Adhere to a strict schedule for oil and filter changes, using high-quality engine oil suitable for high-performance applications.
- **Engine Monitoring:** Regularly monitor engine oil pressure, temperature, and listen for any unusual noises that may indicate internal issues.
- **Professional Inspection:** For racing or heavily modified engines, periodic professional inspection of internal components may be advisable.

7. TROUBLESHOOTING

Given that connecting rods are internal engine components, troubleshooting typically involves diagnosing broader engine performance issues. If you experience any of the following, consult a qualified automotive technician:

- Unusual knocking or tapping sounds from the engine.
- Significant loss of engine power or performance.
- Abnormal oil consumption or pressure.
- Metal particles found in engine oil during changes.

These symptoms could indicate issues with connecting rods, bearings, or other critical engine components, requiring immediate professional diagnosis and repair.

8. QUALITY ASSURANCE AND SUPPORT

maXpeedingrods is committed to providing high-quality performance parts. The manufacturing process adheres to stringent quality controls, as evidenced by certifications.

/// QUALITY ASSURANCE



Figure 7: TUV NORD Quality Assurance Certificates.

For specific inquiries or if you require custom solutions not listed, maXpeedingrods offers support to help determine your requirements and develop suitable solutions. Please refer to the official maXpeedingrods website or contact their customer service for further assistance.

While specific warranty details are not provided in this manual, standard manufacturer warranties typically apply to defects in materials and workmanship. Please retain your proof of purchase for any warranty claims.

Visit the [maXpeedingrods Store](#) for more products and information.

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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