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› Instruction Manual for RATION Replacement Connecting Rod

## RATION 31380C, 31380C-A

# Instruction Manual for RATION Replacement Connecting Rod

Model: 31380C, 31380C-A

## 1. INTRODUCTION

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This manual provides essential information for the installation, operation, and maintenance of the RATION Replacement Connecting Rod. This component is designed to replace the connecting rod in specific Tecumseh engine models, ensuring proper engine function and longevity. Please read this manual thoroughly before attempting any installation or maintenance.

## 2. PRODUCT OVERVIEW AND COMPATIBILITY

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The RATION Replacement Connecting Rod is a precision-engineered component critical for the operation of internal combustion engines. It connects the piston to the crankshaft, converting the reciprocating motion of the piston into the rotary motion of the crankshaft.



Image 2.1: The RATION Replacement Connecting Rod. This image shows the full view of the connecting rod, highlighting its two main ends: the small end for the piston pin and the large end for the crankshaft journal, along with the bolts that secure the cap.

### Compatible Engine Models:

- Tecumseh V60
- Tecumseh H60
- Tecumseh TVM140
- Tecumseh VH60
- Tecumseh HH60

This connecting rod is designed as a direct replacement for the original part, ensuring a precise fit and reliable performance within the specified engine models. Always verify compatibility by checking product dimensions and comparing with your existing part before installation.

## 3. SETUP AND INSTALLATION

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Installation of a connecting rod requires mechanical aptitude and specific tools. If you are not comfortable performing this

procedure, it is recommended to seek assistance from a qualified engine mechanic.

### General Installation Steps (Consult Engine Service Manual for Specifics):

1. **Preparation:** Ensure the engine is cool and disconnected from any power source. Drain engine oil.
2. **Access:** Remove necessary engine covers, oil pan, and other components to gain access to the crankshaft and connecting rod assembly.
3. **Old Rod Removal:** Carefully unbolt the connecting rod cap from the crankshaft journal. Note the orientation of the old rod and cap for proper assembly of the new one. Remove the old connecting rod and piston assembly.
4. **Inspection:** Inspect the crankshaft journal for wear or damage. Clean all mating surfaces thoroughly.
5. **New Rod Installation:** Lubricate the crankshaft journal and the connecting rod bearings with clean engine oil. Install the new connecting rod onto the crankshaft journal, ensuring correct orientation.
6. **Torquing:** Reinstall the connecting rod cap and tighten the bolts to the manufacturer's specified torque settings using a torque wrench. Incorrect torque can lead to premature failure.
7. **Reassembly:** Reinstall all removed components, ensuring all fasteners are tightened correctly. Refill engine oil to the proper level.

**Important:** Always refer to the specific service manual for your Tecumseh engine model for detailed, step-by-step instructions, torque specifications, and any special tools required. Failure to follow proper procedures can result in engine damage.

## 4. OPERATING CONSIDERATIONS

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Once the new connecting rod is installed and the engine reassembled, proper operating practices are crucial for the longevity of the component and the engine as a whole.

- **Initial Start-up:** After installation, perform a careful initial start-up. Listen for any unusual noises.
- **Oil Level:** Regularly check and maintain the correct engine oil level. Low oil levels can lead to insufficient lubrication and premature wear of the connecting rod bearings.
- **Oil Quality:** Use the type and grade of engine oil recommended by the engine manufacturer.
- **Overheating:** Avoid engine overheating, as excessive heat can damage engine components, including the connecting rod.

## 5. MAINTENANCE

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The connecting rod itself is not a user-serviceable part once installed. Its maintenance is primarily tied to the overall engine maintenance schedule.

- **Regular Oil Changes:** Adhere strictly to the engine manufacturer's recommended oil change intervals. Clean, fresh oil is vital for lubricating the connecting rod bearings and preventing wear.
- **Oil Filter Replacement:** Replace the oil filter as recommended to ensure oil cleanliness.
- **Engine Cleanliness:** Keep the exterior of the engine clean to prevent debris from entering critical areas.

## 6. TROUBLESHOOTING

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Issues related to the connecting rod typically manifest as severe engine problems. If you experience any of the following symptoms after installation, cease engine operation immediately and consult a qualified mechanic.

### Common Symptoms of Connecting Rod Issues:

- **Knocking Sound:** A distinct, rhythmic knocking sound, especially noticeable at certain RPMs, can indicate worn connecting rod bearings or a loose connecting rod.

- **Loss of Power:** Significant reduction in engine power.
- **Excessive Vibration:** Unusual or increased engine vibration.
- **Metal Shavings in Oil:** Presence of metallic particles in the engine oil when drained, indicating internal wear.

These symptoms often require immediate attention to prevent catastrophic engine failure. Do not attempt to operate an engine exhibiting these signs.

## 7. SPECIFICATIONS

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Below are the key specifications for the RATION Replacement Connecting Rod.

Attribute	Value
Brand	RATION
Model Number	31380C, 31380C-A
Manufacturer Part Number (MPN)	V60 (as per product description)
ASIN	B0F5PVYPCV
Material	Not specified (typically aluminum or steel alloy)
Application	Replacement part for Tecumseh V60, H60, TVM140, VH60, HH60 engines

## 8. WARRANTY AND SUPPORT

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Specific warranty information for this RATION product is not detailed in the provided product data. For warranty claims or detailed technical support, please refer to the seller or manufacturer directly through your purchase platform.

For general inquiries or assistance with product compatibility, please contact the seller "prysiazh" via the Amazon platform where the product was purchased.

**Seller:** prysiazh

**Amazon Product Page:** [Product Link](#)

