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- › [NMD](#) /
- › [NMD TC 28-45-8 Double Lips Oil Seal Instruction Manual](#)

NMD TC 28-45-8

Instruction Manual for NMD TC 28-45-8 Double Lips Oil Seal

Model: TC 28-45-8 | Brand: NMD

PRODUCT OVERVIEW

This manual provides essential information for the proper installation and maintenance of the NMD TC 28-45-8 Double Lips Oil Seal. This high-quality oil seal is designed to replace Honda part number 91203-444-003, ensuring a reliable seal in various automotive and industrial applications.



Figure 1: The NMD TC 28-45-8 Double Lips Oil Seal. This image shows the circular black seal, highlighting its double-lip design for enhanced sealing performance. The dimensions and part numbers are often embossed on the outer edge.

Key Features:

- **Excellent Quality Double Lips Seal:** Provides superior sealing capabilities, preventing leaks and contamination.
- **Direct Replacement:** Specifically designed to replace Honda part 91203-444-003, ensuring compatibility and ease of installation.
- **Durable Construction:** Manufactured from robust materials for long-lasting performance in demanding environments.

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of the oil seal. Always refer to the vehicle or equipment manufacturer's service manual for specific instructions and torque specifications.

1. **Preparation:** Ensure the shaft and housing bore are clean, free of burrs, nicks, and rust. Lubricate the shaft and the seal's lips with the appropriate lubricant (e.g., clean engine oil or grease) before installation.
2. **Removal of Old Seal:** Carefully remove the old seal using a seal puller or a suitable pry tool, taking care not to damage the shaft or housing.
3. **Installation of New Seal:**
 - Use a seal driver or a socket of appropriate size that matches the outer diameter of the seal.
 - Press the seal squarely into the bore until it is fully seated. Avoid cocking the seal during installation.
 - Do not use excessive force or hammer directly on the seal without a proper driver, as this can damage the seal or distort its shape.
4. **Inspection:** After installation, visually inspect the seal to ensure it is seated correctly and the lips are not inverted or damaged.

OPERATING PRINCIPLES

The NMD TC 28-45-8 Double Lips Oil Seal is designed to prevent the leakage of lubricants or other fluids from a rotating shaft, while also preventing the ingress of contaminants such as dirt, dust, and moisture. The primary lip creates a dynamic seal against the rotating shaft, while the secondary lip provides an additional barrier against external elements and can also act as a backup seal.

The seal's effectiveness relies on maintaining proper contact pressure between the lips and the shaft, which is achieved through the seal's design and the garter spring (if present). Operating within specified temperature and pressure ranges is essential for optimal performance.

MAINTENANCE

Oil seals are wear components and require periodic inspection and replacement. While the seal itself requires no active maintenance, its surrounding environment does.

- **Regular Inspection:** Periodically check for signs of leakage around the seal area. Early detection of leaks can prevent more significant damage to the system.
- **Shaft Condition:** Ensure the shaft surface where the seal rides is smooth and free from grooves, pitting, or excessive wear. A damaged shaft can quickly compromise a new seal.
- **Lubrication:** Ensure the system maintains adequate lubrication levels. Insufficient lubrication can lead to premature seal wear and failure.

- **Replacement Schedule:** Replace the oil seal according to the vehicle or equipment manufacturer's recommended service intervals, or immediately if signs of leakage or damage are observed.

TROUBLESHOOTING

If you experience issues with your oil seal, consider the following common problems and their potential solutions:

Problem	Possible Cause	Solution
Oil Leakage	<ul style="list-style-type: none"> • Improper installation (cocked seal, damaged lip) • Damaged shaft surface (grooves, wear) • Incorrect seal size or type • Excessive pressure or temperature • Seal material incompatibility with fluid 	<ul style="list-style-type: none"> • Reinstall seal correctly, replace if damaged. • Repair or replace shaft. • Verify correct seal specifications. • Check system operating conditions. • Ensure fluid compatibility.
Premature Wear	<ul style="list-style-type: none"> • Lack of lubrication • Abrasive contaminants • Excessive shaft runout or vibration • Overheating 	<ul style="list-style-type: none"> • Ensure adequate lubrication. • Improve contamination exclusion. • Address shaft alignment issues. • Check system cooling.

SPECIFICATIONS

The following specifications apply to the NMD TC 28-45-8 Double Lips Oil Seal:

Attribute	Value
Model Number	TC 28-45-8
Brand	NMD
Type	Double Lips Oil Seal
Replaces OEM Part	Honda 91203-444-003
ASIN	B07HCP41J2
Manufacturer	NMD
First Available Date	September 14, 2018

WARRANTY INFORMATION

NMD products are manufactured to high-quality standards. This oil seal is typically covered by a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the retailer's return policy or contact NMD customer support. Keep your proof of purchase for any warranty claims.

CUSTOMER SUPPORT

For further assistance, technical inquiries, or support regarding the NMD TC 28-45-8 Double Lips Oil Seal, please contact your point of purchase or visit the official NMD website for contact information.

Note: Always ensure you are using the correct part for your application. Consult a qualified professional if you are unsure about installation procedures.

