

Bronco AT-03A22

Bronco AT-03A22 Differential Seal Kit

INSTRUCTION MANUAL

Product Overview

The Bronco AT-03A22 Differential Seal Kit provides all necessary replacement seals for servicing one differential. These seals are engineered to meet or exceed original equipment manufacturer (OEM) quality standards, including the use of TC double lip seals where applicable, ensuring reliable performance and durability.

This kit is designed for specific Honda ATV models, including:

- Honda TRX250EX Sportrax (2001-2008)
- Honda TRX250TE FourTrax Recon ES (2016-2017, 2011-2014, 2002-2009)
- Honda TRX250TM FourTrax Recon (2016-2017, 2011-2014, 1997-2009)
- Honda TRX250X (2016-2017, 2011-2014, 2009)



An image showing the individual components of the Bronco AT-03A22 Differential Seal Kit, typically including multiple rubber seals of various sizes designed for differential repair.

Installation Guidelines

Installation of differential seals requires mechanical knowledge and specialized tools. It is recommended that this procedure be performed by a qualified technician or an individual with experience in ATV maintenance and repair. Always consult your vehicle's specific service manual for detailed, model-specific instructions and torque specifications.

General Steps (Consult Service Manual for Details):

1. **Preparation:** Ensure the vehicle is safely secured and the differential fluid has been drained.
2. **Disassembly:** Carefully remove components obstructing access to the differential seals, such as axles, driveshafts, or differential covers.
3. **Seal Removal:** Use appropriate seal pullers or pry tools to remove the old, worn seals. Exercise caution to avoid damaging the differential housing or shaft surfaces.
4. **Surface Cleaning:** Thoroughly clean the seal seating surfaces and surrounding areas to remove old sealant, dirt, and debris. Inspect for any damage or corrosion.
5. **New Seal Installation:** Apply a thin layer of differential fluid or appropriate lubricant to the new seals. Using a seal driver or a socket of the correct size, carefully tap the new seals into place until they are fully seated and flush with the housing. Ensure seals are installed squarely.
6. **Reassembly:** Reinstall all removed components, ensuring all fasteners are tightened to the manufacturer's specified torque values.
7. **Fluid Refill:** Refill the differential with the recommended type and quantity of differential fluid.
8. **Leak Check:** After reassembly and fluid refill, operate the vehicle briefly and then inspect for any signs of leaks around the newly installed seals.

Disclaimer: These are general guidelines. Incorrect installation can lead to differential damage or fluid leaks. Always refer to your vehicle's official service manual for precise instructions.

Operating Considerations

Once the differential seals are correctly installed, the differential should operate as intended, preventing fluid leaks and protecting internal components. No specific user operation is required for the seals themselves; their function is passive, maintaining the integrity of the differential housing.

After installation, it is advisable to monitor the differential for the first few hours of operation to ensure no leaks develop. Any unusual noises or fluid seepage should be investigated promptly.

Maintenance

Proper maintenance of your vehicle's differential is crucial for the longevity of the seals and the differential itself. Adhere to the following practices:

- **Regular Fluid Checks:** Periodically check the differential fluid level and condition as specified in your vehicle's service manual. Low fluid levels can lead to overheating and premature seal failure.
- **Fluid Changes:** Replace differential fluid at the recommended intervals. Old or contaminated fluid can degrade seals over time.
- **Inspection:** During routine maintenance, visually inspect the differential seals for any signs of cracking, hardening, or fluid leaks. Address any issues promptly to prevent further damage.
- **Avoid Overloading:** Operating the vehicle within its specified load and towing capacities helps prevent excessive stress on the differential and its seals.

Troubleshooting

If you experience issues after installing the differential seal kit, consider the following common problems and solutions:

- **Fluid Leakage:**
 - **Cause:** Improper seal installation, damaged seal during installation, damaged sealing surface on differential housing or shaft, incorrect fluid level (overfilled).
 - **Solution:** Re-inspect the seals for proper seating. Check for damage to the seals or mating surfaces. Ensure fluid level is correct. If necessary, replace the seal again, paying close attention to installation technique.
- **Unusual Noises from Differential:**
 - **Cause:** While seals typically do not cause noise, a severe leak leading to low fluid levels can cause internal differential component wear and noise.
 - **Solution:** Check fluid level immediately. If low, refill and inspect for leaks. If noise persists, professional diagnosis of internal differential components is required.

For persistent issues, it is recommended to consult a professional mechanic or your vehicle's service center.

Specifications

Attribute	Detail
Brand	Bronco

Model Number	AT-03A22
Item Weight	3.2 ounces
Product Dimensions	5.8 x 3.8 x 2.1 inches
Manufacturer Part Number	AT-03A22
Kit Contents	All necessary replacement seals for one differential

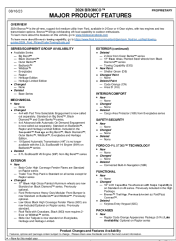
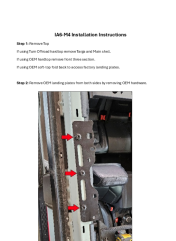


Warranty and Support

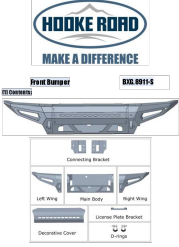
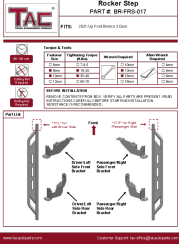
For specific warranty information regarding the Bronco AT-03A22 Differential Seal Kit, please refer to the documentation provided with your purchase or contact the retailer/manufacturer directly. Warranty terms typically cover manufacturing defects.

For technical support or inquiries about this product, please reach out to Bronco customer service through their official website or the point of purchase. When contacting support, please have your product model number (AT-03A22) and purchase details readily available.

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Related Documents - AT-03A22

	<p>2024 Ford Bronco: Major Product Features and Equipment Guide</p> <p>Explore the comprehensive features, equipment groups, and options for the 2024 Ford Bronco. This guide details mechanical, exterior, interior, safety, and technology enhancements across various trims, including Big Bend, Black Diamond, Outer Banks, Badlands, Wildtrak, Everglades, Raptor, Heritage Edition, and Heritage Limited Edition.</p>
	<p>Turn Offroad IA6-M4 Bronco Cage Brace Installation Guide</p> <p>Step-by-step installation instructions for the Turn Offroad IA6-M4 Bronco Cage Brace, designed for 2021-2025 Ford Bronco models. Includes hardware details and top reinstallation.</p>
	<p>Turn Offroad EA12-M1 Installation Instructions for Ford Bronco Rear Recovery Eyelets</p> <p>Step-by-step guide for installing the Turn Offroad EA12-M1 Rear Recovery Eyelets on 2021-2025 Ford Bronco models. Includes detailed instructions and visual aids.</p>
	<p>2024 Ford Bronco Equipment Installation Guide</p> <p>Comprehensive guide for installing equipment on the 2024 Ford Bronco, detailing model specifications, dimensional data, electrical systems, mounting points, and safety considerations.</p>

 <p>The image shows the cover of the Hooke Road BXG.8911-S Front Bumper Installation Guide. It features the Hooke Road logo at the top, followed by the product name 'Front Bumper BXG.8911-S'. Below this is a photograph of the bumper assembly. At the bottom, there are small icons representing the components included: Left Wing, Right Wing, Main Body, Connecting Bracket, License Plate Bracket, Decorative Cover, and a 1/2" x 1/4" Drilling.</p>	<p>Hooke Road BXG.8911-S Front Bumper Installation Guide for Ford Bronco</p> <p>Detailed installation instructions for the Hooke Road BXG.8911-S full-width front bumper designed for Ford Bronco 2021-2024 models. Includes parts list, tools required, and step-by-step assembly.</p>
 <p>The image shows the cover of the TAC Rocker Step Installation Guide. It features the TAC logo at the top, followed by the product name 'Rocker Step PART # BR-FRS-017'. Below this is a photograph of the rocker step assembly. At the bottom, there are small icons representing the components included: Left Side, Right Side, and a 1/2" x 1/4" Drilling.</p>	<p>TAC Rocker Step Installation Guide for 2021-Up Ford Bronco 2 Door</p> <p>Detailed installation instructions for the TAC Rocker Step (Part #: BR-FRS-017) designed for the 2021 and newer Ford Bronco 2 Door models. Includes parts list, tools required, and step-by-step assembly guidance.</p>