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Race-Driven S-27276

Race-Driven Front A-Arm Lower Bushing Kit Instruction Manual

For Polaris 325 Trail Boss (2000-2002) - Model S-27276

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Race-Driven Front A-Arm Lower Bushing Kit. This kit is designed to replace worn OEM rubber bushings on Polaris 325 Trail Boss ATV models from years 2000, 2001, and 2002, enhancing durability and performance.

1.1 What's in the Box

- 4 x Heavy-Duty Poly Bushings
- 4 x Steel Bushings

These components are sufficient to replace the lower A-arm bushings on both the front left and front right sides of your ATV.



Image 1.1: Complete Race-Driven Front A-Arm Lower Bushing Kit, showing four poly bushings and four steel bushings.

2. Safety Information

Always prioritize safety when working on your vehicle. Improper installation can lead to serious injury or damage to your ATV. If you are unsure about any step, consult a qualified mechanic.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the ATV is securely supported on a level surface using jack stands before beginning any work. Do not rely solely on a jack.
- Disconnect the battery's negative terminal before working on any electrical components, though this is not typically required for bushing replacement.
- Use the correct tools for each task.
- Keep children and pets away from the work area.

3. Setup and Installation

This section outlines the general procedure for replacing the front lower A-arm bushings. Refer to your Polaris 325 Trail Boss service manual for specific torque specifications and detailed disassembly/assembly procedures.

3.1 Required Tools

- Socket set and wrenches
- Jack and jack stands
- Pry bar or large screwdriver
- Hammer or rubber mallet
- Bushing press tool or suitable alternative (e.g., large C-clamp with appropriately sized sockets/washers)

- Grease (lithium-based recommended)
- Wire brush or sandpaper for cleaning

3.2 Installation Steps

1. **Prepare the ATV:** Park the ATV on a flat, stable surface. Engage the parking brake. Use a jack to lift the front of the ATV and secure it with jack stands, ensuring the front wheels are off the ground. Remove the front wheels.
2. **Remove the A-Arm:** Carefully disconnect the lower shock mount, tie rod end, and ball joint from the steering knuckle. Unbolt the A-arm pivot bolts from the frame. Remove the entire lower A-arm assembly from the ATV.
3. **Remove Old Bushings:** Inspect the old rubber bushings for wear. Use a bushing press tool, or a combination of a C-clamp and appropriately sized sockets, to press out the old rubber bushings and their inner sleeves from the A-arm. Clean the bushing bores thoroughly with a wire brush or sandpaper to remove any rust or debris.
4. **Install New Poly Bushings:** Apply a thin layer of grease to the outer surface of the new poly bushings and the inner surface of the A-arm bores. Press the poly bushings into the A-arm bores. The poly material allows for easier installation compared to rubber.

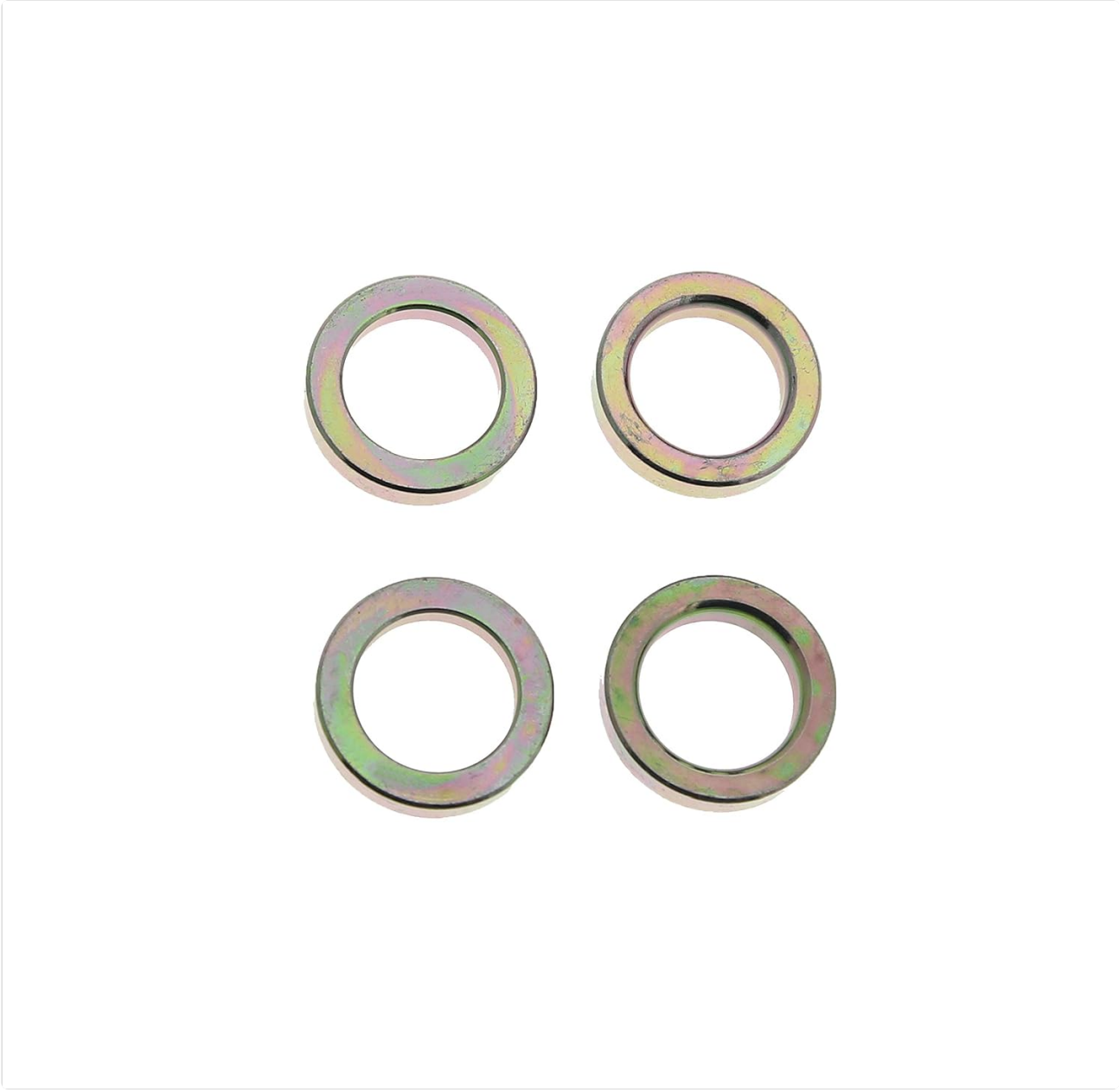

Image 3.1: The four heavy-duty poly bushings included in the kit.

5. **Install New Steel Bushings:** Insert the new steel inner sleeves into the center of the newly installed poly

bushings. Ensure they are seated correctly.



Image 3.2: The four steel bushings included in the kit, designed to fit inside the poly bushings.

6. **Reinstall A-Arm:** Reattach the A-arm to the frame using the pivot bolts. Do not fully tighten the pivot bolts until the ATV is at ride height. Reconnect the ball joint, tie rod end, and shock mount.
7. **Final Assembly:** Reinstall the front wheels. Lower the ATV to the ground. With the ATV at ride height, tighten all A-arm pivot bolts and other fasteners to the manufacturer's specified torque values.
8. **Test:** Gently move the ATV to ensure all components are functioning correctly and there are no abnormal noises or movements.

4. Operating Considerations

Once installed, the Race-Driven poly bushings are designed to provide improved longevity and a more precise feel compared to standard rubber bushings. They contribute to better suspension articulation and reduced play in the A-arm pivot points.

- Expect a potentially firmer feel in the front suspension due to the durable poly material.
- The enhanced durability of poly bushings means less frequent replacement compared to OEM rubber.

5. Maintenance

Proper maintenance will extend the life of your Race-Driven bushings and ensure optimal performance.

- **Regular Inspection:** Periodically inspect the bushings for signs of wear, cracking, or excessive play. This is especially important after riding in harsh conditions.
- **Cleaning:** Keep the A-arm area clean from excessive dirt, mud, and debris, which can accelerate wear.
- **Lubrication:** While poly bushings generally require less lubrication than rubber, occasional inspection of the grease within the sleeves is recommended. If your A-arms have grease zerks, follow your ATV's service manual for lubrication intervals.

6. Troubleshooting

If you experience issues after installing your new bushings, consider the following:

- **Excessive Play/Clunking:** This could indicate improper installation, such as loose pivot bolts, or incorrect seating of the bushings. Recheck all fasteners and ensure bushings are fully seated.
- **Squeaking Noises:** Squeaking can occur if the poly bushings are not adequately lubricated. Disassemble, apply fresh grease, and reassemble.
- **Stiff Suspension:** While poly bushings can provide a firmer feel, excessive stiffness might suggest over-tightened pivot bolts. Ensure bolts are torqued to specifications at ride height.
- **Premature Wear:** Ensure the A-arm bores were clean and free of burrs before installation. Riding in extremely harsh conditions without proper cleaning and inspection can also contribute to wear.

7. Specifications

Attribute	Value
Brand	Race-Driven
Model Number	S-27276
Compatible ATV Models	Polaris 325 Trail Boss (2000, 2001, 2002)
Material	Polyurethane (Poly) and Steel
Bearing Type	Plain Bearing
Kit Contents	4 Poly Bushings, 4 Steel Bushings (for both front lower A-arms)
Item Dimensions (L x W x H)	9 x 6 x 1 inches (packaging)
Item Weight	6.1 ounces (product) / 0.38 Pounds (shipping)
UPC	841612160924
ASIN	B00U6HCGYA

8. Warranty and Support

For specific warranty information regarding your Race-Driven Front A-Arm Lower Bushing Kit, please refer to the official Race-Driven website or contact their customer service directly. Keep your proof of purchase for any warranty claims.

If you require technical assistance or have questions not covered in this manual, please contact Race-Driven customer support:

- **Website:** Visit the Race-Driven Store on Amazon
- **General Inquiries:** Refer to the contact information provided on the Race-Driven official website.

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