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› NICHE Ball Joint Instruction Manual

NICHE MK1003477

NICHE Ball Joint Instruction Manual

Model: MK1003477

INTRODUCTION

This manual provides essential information for the installation, maintenance, and general understanding of your NICHE Ball Joints. These ball joints are designed as direct replacements for specific Yamaha ATV models, ensuring proper fit and function. For optimal performance and safety, it is recommended that installation be performed by a qualified technician.



Image: A set of four NICHE ball joints, each complete with a castle nut, cotter pin, and retaining ring, ready for installation.

PRODUCT COMPATIBILITY

NICHE Ball Joints are engineered to be compatible with the following OEM Part Numbers and Yamaha models:

- **OEM Part Numbers:** Yamaha 5LP-23579-00-00, 3B4-23579-01-00
- **Compatible Yamaha Models:**
 - 2011-2012 Yamaha Grizzly 550 YFM550FG
 - 2009-2010 Yamaha Grizzly 550 YFM550FG FI
 - 2011-2012 Yamaha Grizzly 550 YFM550GPH Hunter
 - 2009-2012 Yamaha Grizzly 550 YFM550FGP FI
 - 2011-2012 Yamaha Grizzly 550 YFM550FGH Hunter
 - 2009-2010 Yamaha Grizzly 550 YFM550PHH Hunter
 - 2009-2010 Yamaha Grizzly 550 YFM550FGHPH Hunter
 - 2009 Yamaha Grizzly 550 YFM550FGPSE Special Edition
 - 2008-2012 Yamaha Grizzly 700 YFM700FG FI
 - 2009-2010, 2012 Yamaha Grizzly 700 YFM700FGH Hunter

- 2007-2012 Yamaha Grizzly 700 YFM700FGP FI
- 2007, 2009-2012 Yamaha Grizzly 700 YFM700FGPSE Special Edition
- 2007-2009 Yamaha Grizzly 700 YFM700FGPDU Ducks Unlimited
- 2009-2010 Yamaha Grizzly 700 YFM700FGHPH Hunter
- 2007-2008, 2011-2012 Yamaha Grizzly 700 YFM700FGPH Hunter
- 2007 Yamaha Grizzly 700 YFM700FGPOH Outdoorsman

What's in the Box

Each package of NICHE Ball Joints typically includes:

- (4) Ball Joints

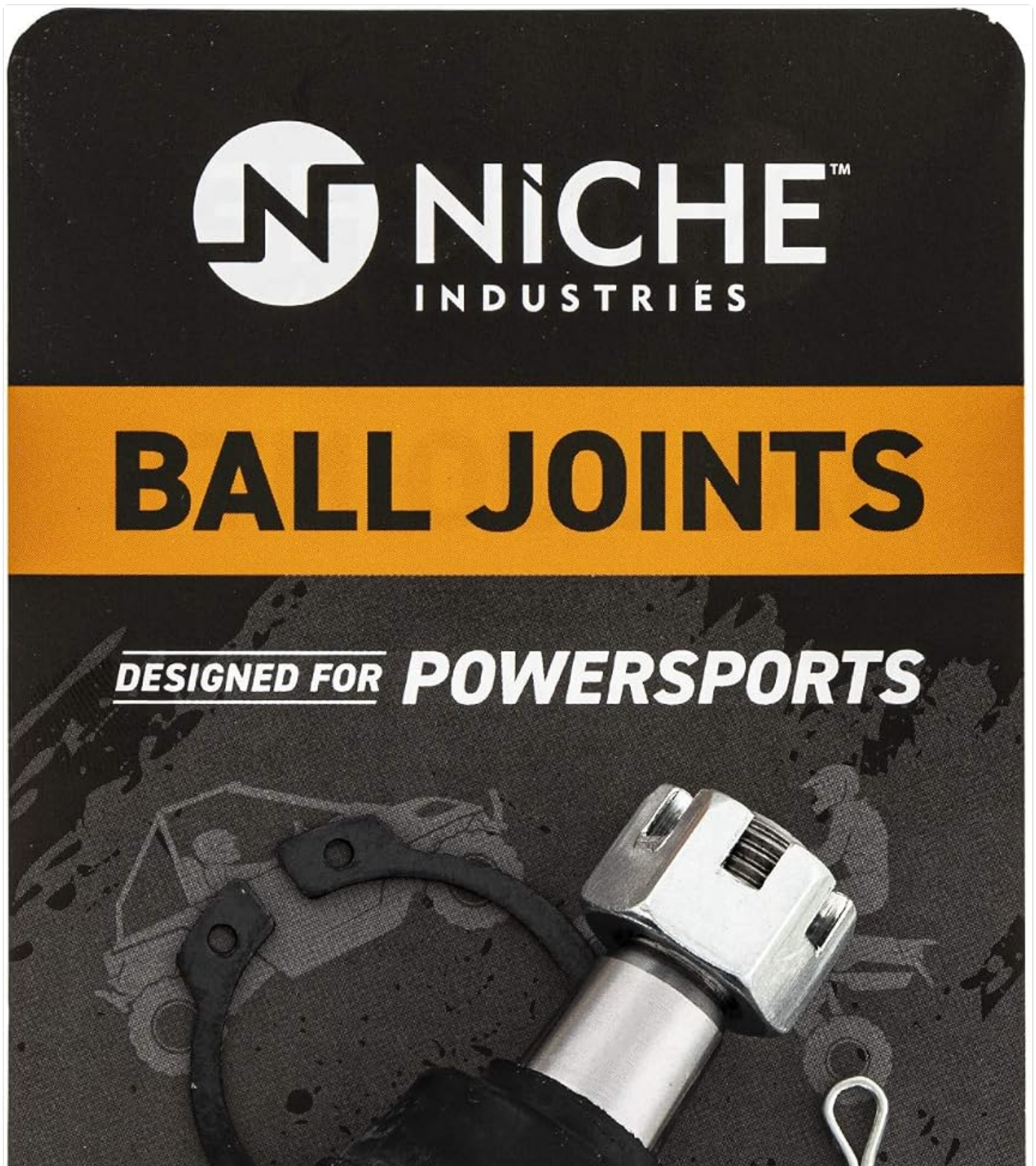




Image: Retail packaging for NICHE Ball Joints, showing a single ball joint with its components.

INSTALLATION GUIDELINES

Proper installation of ball joints is critical for vehicle safety and performance. Due to the complexity and safety implications, it is highly recommended that installation be performed by a certified professional or an experienced mechanic with appropriate tools and knowledge of the specific vehicle's service manual.

General Steps (Consult Vehicle Service Manual for Details):

1. **Preparation:** Safely lift and support the vehicle. Remove the wheel and tire assembly.
2. **Disassembly:** Disconnect the steering knuckle from the control arm. Carefully remove the old ball joint using appropriate removal tools (e.g., ball joint press or separator).
3. **Cleaning:** Clean the mounting bore in the control arm and steering knuckle thoroughly.
4. **Installation of New Ball Joint:** Press the new NICHE ball joint into the control arm. Ensure it is seated correctly and fully.
5. **Reassembly:** Reconnect the steering knuckle to the new ball joint. Install the castle nut and cotter pin, ensuring proper torque specifications are met as per the vehicle's service manual.
6. **Final Steps:** Reinstall the wheel and tire assembly. Lower the vehicle. It is highly recommended to perform a wheel alignment after ball joint replacement to ensure proper steering and tire wear.



Image: A detailed view of a NICHE ball joint, highlighting its robust construction and components.



Image: The retaining ring and cotter pin, essential hardware for securing the ball joint during installation.

FUNCTION AND PERFORMANCE

Ball joints are critical components of a vehicle's suspension system, acting as pivot points that connect the control arms to the steering knuckles. They allow for the necessary movement of the suspension while maintaining proper wheel alignment and steering control. NICHE ball joints are manufactured to meet or exceed OEM specifications, providing reliable performance and durability for your powersports vehicle.

MAINTENANCE

Regular inspection of your vehicle's suspension components, including ball joints, is recommended to ensure continued safe operation. Look for signs of wear such as:

- Excessive play in the steering or suspension.
- Unusual noises (e.g., clunking, popping) coming from the suspension, especially over bumps.
- Uneven tire wear.
- Damaged or torn dust boots on the ball joint, which can lead to contamination and premature wear.

If any of these symptoms are observed, have your vehicle inspected by a qualified mechanic immediately.

TROUBLESHOOTING

While NICHE ball joints are designed for reliability, issues can sometimes arise. Here are common symptoms and potential causes:

Symptom	Possible Cause	Action
Clunking or Popping Noises	Worn or loose ball joint, improper installation.	Inspect ball joint for play. Ensure all fasteners are torqued to specification. Replace if worn.
Excessive Play in Steering	Worn ball joint, other steering/suspension component wear.	Have suspension system professionally inspected to identify source of play.
Uneven Tire Wear	Worn ball joint, improper alignment, other suspension issues.	Check ball joint for wear. Perform wheel alignment after any suspension component replacement.
Vibration	Severely worn ball joint, unbalanced tires, bent wheel.	Inspect ball joints and other suspension components. Check tire balance and wheel condition.

If you are unable to diagnose or resolve an issue, consult a professional mechanic.

SPECIFICATIONS

Attribute	Value
Brand	NICHE
Model Number	MK1003477
Item Weight	1.9 pounds
Product Dimensions	16 x 10 x 1 inches
Country of Origin	China
Exterior Finish	Polished
Safety Rating	DOT Certified
OEM Part Numbers	5LP-23579-00-00, 3B4-23579-01-00

WARRANTY INFORMATION

NICHE Industries provides a **2-Year Warranty** on this product. For detailed warranty terms and conditions, please refer to the official NICHE Industries website or contact customer support.



Image: The NICHE Industries 2-Year Warranty emblem, signifying product assurance.

ABOUT NICHE INDUSTRIES

NICHE Industries is a leading manufacturer and distributor of quality replacement parts for powersports vehicles, including ATVs, Side by Sides, Snowmobiles, Dirt Bikes, and Motorcycles. The company is headquartered outside of Detroit, Michigan, with additional fulfillment locations to serve its customer base.

Video: An official brand video from NICHE Industries, showcasing their commitment to powersports parts across various terrains and vehicles.

CUSTOMER SUPPORT

For further assistance, technical inquiries, or warranty claims, please contact NICHE Industries customer support through their official website or authorized dealers. Always provide your product model number (MK1003477) and purchase details when seeking support.