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› TEN Factory MG31135 Axle Shaft Assembly Instruction Manual

Motive Gear MG31135

TEN Factory MG31135 Axle Shaft Assembly Instruction Manual

Model: MG31135 | Brand: Motive Gear

1. INTRODUCTION

This manual provides essential information for the installation, maintenance, and general understanding of the TEN Factory MG31135 Bolt Pattern Spline Drive Axle Shaft Assembly. This component is designed as a direct-fit replacement for the Dana 35 rear axle, specifically for the left (driver) side in compatible Jeep applications.

The MG31135 axle shaft assembly is engineered for durability and strength, crafted from 1541H manganese steel, making it a robust original equipment (OE) replacement.

2. KEY PRODUCT FEATURES

- **Application:** Designed for Dana 35 Rear Axle, Left (Driver) Side.
- **Vehicle Fitment:** Compatible with select 1990–2006 Jeep models.
- **Spline Count:** Features 27 inboard splines for efficient power transfer.
- **Axle Length:** Measures 30.56 inches.
- **Material:** Constructed from high-quality 1541H Manganese Steel for enhanced strength and longevity.
- **Wheel Bolt Pattern:** Standard 5 x 4.5 inches.
- **Included Components:** Axle shaft, Bearings, Seals, and Wheel Studs.
- **OE Replacement:** Engineered to meet or exceed original equipment specifications.

3. VEHICLE COMPATIBILITY

The TEN Factory MG31135 axle shaft assembly is compatible with the following Jeep models:

- **Jeep Cherokee:** 1990–2001
- **Jeep Comanche:** 1990–1992
- **Jeep Grand Cherokee:** 1993–1995
- **Jeep Grand Wagoneer:** 1990–1991, 1993
- **Jeep Wagoneer:** 1989–1990
- **Jeep TJ:** 1997–2006
- **Jeep Wrangler:** 1990–1995, 1997–2006

This assembly replaces OEM and aftermarket part numbers including Spicer: 73624-2X and Motive Gear: 73624-2XR.

4. WHAT'S INCLUDED IN THE BOX

Each TEN Factory MG31135 axle shaft assembly package contains the following components:

- One (1) Axle Shaft
- One (1) Bearing
- One (1) Seal
- Four (4) Wheel Studs

Note: An ABS ring is not included with this kit, but the axle is designed to be ABS-ready.



Image 4.1: The complete TEN Factory MG31135 axle shaft assembly, showcasing the axle shaft, bearing, seal, and wheel studs.



Image 4.2: Side profile of the axle shaft assembly, highlighting its length and the included components laid out.



Image 4.3: The packaging box for TEN Factory Performance Axle Shafts, indicating brand and product type.

5. TECHNICAL SPECIFICATIONS

Specification	Detail
Manufacturer	Motive Gear
Brand	Motive Gear
Model	Drive Axle Shaft Assembly
Item Model Number	MG31135
Item Weight	18 pounds (approx. 8.16 kg)
Product Dimensions	36 x 8 x 8.38 inches (approx. 91.44 x 20.32 x 21.29 cm)
Exterior Finish	Machined
Material	1541H Manganese Steel
Spline Count	27 Spline
Axle Length	30.56 inches
Wheel Bolt Pattern	5 x 4.5 inches



Image 5.1: Angled view of the axle shaft, showing the flange and the spline end, along with the bearing, seal, and studs.



Image 5.2: Detailed view of the 27-spline end of the axle shaft, emphasizing the precision machining.

6. INSTALLATION GUIDELINES

Installation of axle shaft assemblies requires specialized tools and knowledge. It is highly recommended that this procedure be performed by a qualified automotive technician.

6.1. Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands or a lift before beginning any work.
- Disconnect the vehicle's battery to prevent accidental electrical discharge.
- Allow components to cool if the vehicle has been recently operated.

6.2. General Installation Steps (Consult Service Manual for Specifics)

1. Safely lift and support the vehicle. Remove the wheel and tire assembly.
2. Remove the brake caliper and rotor.
3. Access the differential cover and drain the differential fluid.
4. Remove the differential cover and locate the differential pin. Remove the pin and C-clip retaining the axle shaft.
5. Carefully slide the old axle shaft out of the axle housing.
6. Inspect the axle housing and differential for any damage or wear.
7. Install the new bearing and seal onto the new TEN Factory axle shaft if not pre-installed.
8. Carefully slide the new axle shaft into the axle housing, ensuring the splines engage correctly with the differential.
9. Reinstall the C-clip and differential pin.
10. Reinstall the differential cover with a new gasket and refill with the correct type and amount of differential fluid.
11. Reassemble the brake components, wheel, and tire.
12. Lower the vehicle and torque lug nuts to manufacturer specifications.

Always refer to the vehicle's specific service manual for detailed, model-specific installation procedures and torque specifications.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your axle shaft assembly.

7.1. Routine Inspection

- Regularly inspect the axle shaft, bearings, and seals for signs of wear, damage, or leaks.
- Check for any unusual noises or vibrations coming from the rear axle area during vehicle operation.
- Ensure wheel studs are not damaged and lug nuts are properly torqued.

7.2. Differential Fluid

- Adhere to the vehicle manufacturer's recommended schedule for differential fluid changes. Using the correct type and viscosity of fluid is crucial for differential and axle health.

8. TROUBLESHOOTING

If you experience issues after installation or during the use of the axle shaft assembly, consider the following common symptoms and potential causes:

Symptom	Possible Cause	Action
Unusual Noise (e.g., humming, grinding)	Worn or damaged bearing, insufficient differential fluid, incorrect installation.	Inspect bearing and fluid level. Consult a professional technician for diagnosis.
Vibration	Bent axle shaft, unbalanced wheel, loose lug nuts, worn universal joints (if applicable).	Check for visible damage. Ensure wheels are balanced and lug nuts are torqued. Seek professional inspection.
Fluid Leak at Wheel End	Damaged or improperly seated axle seal.	Inspect seal for damage or improper installation. Replacement may be necessary.

For complex issues or if you are unsure about the diagnosis, it is always recommended to consult a certified automotive mechanic.

9. WARRANTY AND SUPPORT

9.1. Warranty Information

The TEN Factory MG31135 Axle Shaft Assembly is backed by a **1-year limited warranty**. This warranty covers defects in materials and workmanship under normal use and service. Please retain your proof of purchase for warranty claims.

For detailed warranty terms and conditions, please refer to the official Motive Gear or TEN Factory warranty documentation, or contact their customer support.

9.2. Customer Support

For technical assistance, warranty inquiries, or replacement parts, please contact Motive Gear customer support. Contact information can typically be found on the manufacturer's official website or product packaging.

You can visit the [Motive Gear Store on Amazon](#) for more information and product resources.