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HANKOOK Dynapro MT (RT03)

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1. PRODUCT OVERVIEW

The Hankook Dynapro MT (RT03) is a mud-terrain tire designed for off-road performance and durability. It features a robust tread pattern engineered to provide traction in challenging conditions such as mud, snow, and sand. The tire's design incorporates large voids for self-cleaning and ejectors to prevent stone retention, contributing to its longevity and consistent performance. This tire is suitable for drivers seeking enhanced off-road capability while maintaining acceptable on-road characteristics.



Figure 1: Front view of the Hankook Dynapro MT (RT03) tire mounted on a black wheel.

2. INSTALLATION

Proper installation is critical for tire safety and performance. It is highly recommended that installation be performed by a qualified tire professional using appropriate equipment.

2.1 Pre-Installation Checks

- Ensure the tire size and load/speed ratings match your vehicle's requirements as specified in your vehicle owner's manual.

- Inspect the tire for any visible damage or manufacturing defects prior to mounting.
- Verify that the wheel rim is clean, free of damage, and compatible with the tire size.

2.2 Mounting and Balancing

- Mount the tire onto the wheel using proper tire mounting equipment to avoid damage to the tire beads or rim.
- Balance the tire and wheel assembly to prevent vibrations and ensure even tread wear.

2.3 Inflation

- Inflate the tire to the pressure recommended by your vehicle manufacturer, typically found on a placard inside the driver's side door jamb, glove compartment, or fuel filler flap. **Do not exceed the maximum pressure molded on the tire sidewall.**
- Use a reliable pressure gauge to ensure accurate inflation.

2.4 Lug Nut Torque

- Tighten lug nuts to the vehicle manufacturer's specified torque settings using a torque wrench.
- Re-check lug nut torque after the first 50-100 miles of driving.



Figure 2: Hankook Dynapro MT (RT03) tire mounted on a silver off-road wheel.

3. OPERATING GUIDELINES

Adhering to these guidelines will help ensure safe operation and maximize the lifespan of your tires.

3.1 Tire Pressure

- Maintain correct tire pressure as specified by your vehicle manufacturer. Check pressure at least once a month, and before long trips, when tires are cold.
- Under-inflation can lead to excessive heat buildup, tire damage, and reduced fuel efficiency. Over-inflation can result in a harsh ride, reduced traction, and premature wear in the center of the tread.

3.2 Load Capacity and Speed Rating

- The Hankook Dynapro MT (RT03) LT33X12.50R20 114Q E has a load capacity of 1477 pounds per tire and a speed rating of 'Q'.
- **Do not exceed the maximum load capacity or speed rating of the tire.** Overloading or exceeding the speed rating can lead to tire failure.

3.3 Off-Road Use

- This tire is designed for excellent traction in mud, snow, and sand. Its large voids and ejectors help maintain grip by clearing debris.
- When driving off-road, adjust tire pressure as appropriate for the terrain, but always re-inflate to vehicle manufacturer specifications before returning to paved roads.
- Exercise caution and reduce speed when driving on rough or uneven terrain to prevent tire damage.



Figure 3: Hankook Dynapro MT tire on a vehicle in off-road conditions.

4. MAINTENANCE

Regular maintenance extends tire life and ensures optimal performance.

4.1 Regular Inspections

- Visually inspect tires regularly for cuts, punctures, bulges, or uneven wear.
- Check tread depth. The original tread depth is approximately 9/32nds. Replace tires when tread depth reaches 2/32nds of an inch, indicated by tread wear indicators.

4.2 Tire Rotation

- Rotate tires every 5,000 to 7,500 miles, or as recommended by your vehicle manufacturer, to promote even wear across all four tires.

4.3 Wheel Alignment and Balancing

- Have your vehicle's wheel alignment checked periodically, especially after hitting potholes or curbs, to prevent uneven tire wear.
- Re-balance tires if you notice vibrations or after any tire repair.

4.4 Cleaning and Storage

- The Dynapro MT (RT03) features a self-cleaning tread design. However, after severe off-road use, rinse tires to remove excessive mud or debris.
- When storing tires, keep them in a cool, dry place away from direct sunlight, heat sources, and chemicals.



Figure 4: Close-up of the Dynapro MT (RT03) tread pattern.

5. TROUBLESHOOTING

This section addresses common tire-related issues.

5.1 Uneven Tread Wear

- **Cause:** Incorrect tire pressure, improper wheel alignment, or lack of tire rotation.
- **Solution:** Check and adjust tire pressure, have alignment inspected, and follow recommended tire rotation schedule.

5.2 Vehicle Vibration

- **Cause:** Unbalanced wheels, damaged tire, or suspension issues.
- **Solution:** Have tires re-balanced. Inspect tires for damage. If vibration persists, consult a mechanic for

suspension inspection.

5.3 Loss of Air Pressure

- **Cause:** Puncture, leaky valve stem, or damaged rim.
- **Solution:** Inspect the tire for punctures. Check valve stem for leaks. If a puncture is found, have the tire professionally repaired or replaced.

For any persistent or severe issues, consult a professional tire technician.

6. SPECIFICATIONS

Specification	Value
Brand	HANKOOK
Model	Dynapro MT (RT03)
Size	LT33X12.50R20
Section Width	12.5 Inches
Rim Size	20 Inches
Tire Aspect Ratio	25
Load Index	114
Speed Rating	Q
Load Capacity	1477 Pounds
Tread Depth (New)	9/32nds
Tread Type	Symmetrical/Directional
Construction Type	Radial
Item Weight	74 Pounds
Manufacturer Part Number	2001559
UPC	715459289011

7. WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the official Hankook Tire warranty documentation provided at the time of purchase or visit the official Hankook website. For technical support or further assistance, please contact your authorized Hankook dealer or the Hankook customer service department.

- **Manufacturer:** Hankook
- **Website:** www.hankooktire.com (Please verify for your region)

