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> Cooper Discoverer SRX All-Season 245/70R17 110T Tire Instruction Manual

Cooper 166602019

Cooper Discoverer SRX All-Season 245/70R17 110T Tire Instruction Manual

Model: DISCOVERER SRX (166602019) | Brand: Cooper

1. PRODUCT OVERVIEW

The Cooper Discoverer SRX is an all-season tire designed for trucks, CUVs, and SUVs. It incorporates advanced technologies to provide confident performance across various conditions, focusing on traction, handling, and ride comfort.

Key Features:

- **Coupled Silica Compound:** Enhances grip in wet conditions and light snow.
- **Wear Square Visual Indicator:** Provides a visual cue for approximate tread life remaining.
- **3D Micro Gauge Siping:** Stabilizes tread elements for improved traction and handling, especially in wet and light snow conditions.
- **Stabiledge:** Bumper in tread grooves to stabilize elements, enhancing steering precision and maintaining traction.
- **Long Tread Life:** Engineered for durability and extended service life.
- **Optimized Ride Comfort:** Designed to maximize comfort and reduce road noise.



Figure 1.1: The Cooper Discoverer SRX tire, highlighting its all-season tread design.

2. INSTALLATION AND SETUP

Proper installation is crucial for tire performance and safety. It is highly recommended that these tires be installed by a qualified professional technician.

Installation Steps (Professional Recommended):

1. **Inspection:** Before mounting, inspect the tire for any damage or defects. Ensure the tire size and specifications match the vehicle's requirements.
2. **Mounting:** Mount the tire onto the correct rim size (e.g., 17-inch rim for 245/70R17). Use appropriate lubrication and tools to prevent damage to the tire bead or rim.
3. **Inflation:** Inflate the tire to the vehicle manufacturer's recommended pressure, typically found on a placard inside the driver's side door jamb or in the owner's manual. Do not exceed the maximum pressure listed on the tire sidewall.
4. **Balancing:** Dynamically balance the tire and wheel assembly to ensure smooth operation and prevent vibrations.
5. **Alignment:** After installing new tires, it is advisable to check and adjust wheel alignment to prevent premature or uneven tread wear.



Figure 2.1: Detailed view of the tire tread, illustrating the siping technology for enhanced grip.

3. OPERATING GUIDELINES

Adhering to proper operating practices will maximize the life and performance of your Cooper Discoverer SRX tires.

- **Maintain Correct Tire Pressure:** Check tire pressure regularly (at least once a month and before long trips) when tires are cold. Under-inflation or over-inflation can lead to uneven wear, reduced fuel efficiency, and compromised handling.
- **Observe Load Limits:** Do not exceed the maximum load capacity specified for the tire (2337 pounds for this model) or the vehicle's Gross Vehicle Weight Rating (GVWR).
- **Speed Ratings:** Adhere to the tire's speed rating (T for this model, indicating a maximum speed of 118 mph or 190 km/h under specified conditions).
- **Driving Conditions:** While designed for all-season performance, adjust driving habits to suit road conditions, especially in severe weather. Reduce speed and increase following distance in rain or light snow.



Figure 3.1: The Cooper Discoverer SRX tire on a vehicle, demonstrating its appearance in use.

4. MAINTENANCE

Regular maintenance extends tire life and ensures consistent performance.

- **Tire Rotation:** Rotate tires every 5,000 to 7,500 miles (8,000 to 12,000 km) or as recommended by your vehicle manufacturer. This promotes even wear across all tires.
- **Tread Depth Monitoring:** Regularly check tread depth. The Wear Square Visual Indicator on the tire provides a quick reference. Replace tires when tread depth reaches 2/32 inch (1.6 mm) or when the Wear Square indicates replacement is due.

- **Visual Inspection:** Periodically inspect tires for cuts, punctures, bulges, or other signs of damage. Remove any embedded objects like stones or nails.
- **Cleaning:** Clean tires with mild soap and water. Avoid harsh chemicals that can degrade rubber compounds.



Figure 4.1: Overhead view of the tire tread, showing the continuous contact patch and groove design.

5. TROUBLESHOOTING

This section addresses common issues that may arise with tires.

Common Issues and Solutions:

- **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.
- **Vibrations:**
 - *Cause:* Unbalanced tires, bent rim, or suspension issues.
 - *Solution:* Have tires re-balanced and inspect rims and suspension components.
- **Loss of Air Pressure:**
 - *Cause:* Puncture, leaky valve stem, or bead leak.
 - *Solution:* Inspect the tire for punctures, check valve stem, and have a professional inspect the tire bead seal.
- **Increased Road Noise:**
 - *Cause:* Uneven wear patterns, worn wheel bearings, or suspension issues.
 - *Solution:* Check for uneven wear, ensure proper tire rotation, and have vehicle inspected by a mechanic.

6. SPECIFICATIONS

Detailed specifications for the Cooper Discoverer SRX All-Season 245/70R17 110T Tire.

Specification	Value
Brand	Cooper
Model Name	DISCOVERER SRX
Model Number	166602019
Size	245/70R17 110T
Section Width	245 Millimeters
Load Capacity	2337 Pounds
Tread Depth	12.5 32nds
Tread Type	Non-Directional
Maximum Pressure	44 Pound per Square Inch
Rim Width	7 Inches

Specification	Value
Overall Diameter	30.4 Inches
Item Weight	33.96 Pounds
Automotive Fit Type	Universal Fit
Construction Type	Radial
UTQG	740AB

7. WARRANTY AND SUPPORT

The Cooper Discoverer SRX tire comes with specific warranty coverage.

- **Treadwear Warranty:** This tire is backed by a 75,000-mile treadwear warranty.
- **Premium Limited Warranty:** Refer to Cooper Tire's official warranty documentation for full details on materials and workmanship coverage.

Customer Support:

For further assistance, technical questions, or warranty claims, please contact Cooper Tire directly or visit their official website. You can find more information on the [Cooper Store on Amazon](#).

8. ADDITIONAL RESOURCES

Explore additional visual information about the Cooper Discoverer SRX tire.



Figure 8.1: Sidewall detail of the Cooper Discoverer SRX tire, displaying model and size markings.



Figure 8.2: Illustration of the Wear Square Indicator, a visual tool for monitoring tread life.

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