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Bridgestone Dueler A/T RH-S

Bridgestone Dueler A/T RH-S All Terrain SUV Tire User Manual

Model: Dueler A/T RH-S (275/60R20 115 S)

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1. INTRODUCTION

This manual provides essential information for the proper installation, usage, and maintenance of your Bridgestone Dueler A/T RH-S All Terrain SUV Tire. The Dueler A/T RH-S is designed for light trucks and SUVs, offering a balance of on-road comfort and off-road capability. It is often supplied as original equipment on vehicles such as Chevrolet, GMC, and Jeep light trucks.

Key features include impressive wet traction and handling, technologies for a good on-road ride and extended tread life, and an aggressive shoulder design for all-terrain traction and appearance.





Figure 1.1: The Bridgestone Dueler A/T RH-S tire, showcasing its all-terrain tread pattern and sidewall branding.

2. INSTALLATION

Proper tire installation is critical for safety and performance. It is strongly recommended that these tires be installed by a qualified professional technician using appropriate equipment.

2.1 Safety Precautions

- **Do not attempt self-installation** without professional training and equipment.
- Ensure the tire size and load index match the vehicle manufacturer's specifications.
- Inspect the wheel for damage or corrosion before mounting.
- Use proper lubrication on the tire beads and wheel rim during mounting.
- Never exceed the maximum inflation pressure indicated on the tire sidewall during mounting.

2.2 Mounting Procedure (Professional Only)

1. Remove the old tire from the wheel.
2. Inspect the wheel for any damage or defects.
3. Apply appropriate tire mounting lubricant to the tire beads and wheel rim.
4. Mount the new Bridgestone Dueler A/T RH-S tire onto the wheel using a tire mounting machine.
5. Inflate the tire to the vehicle manufacturer's recommended pressure, not the maximum pressure on the tire sidewall.
6. Balance the tire and wheel assembly using a wheel balancing machine.
7. Install the balanced wheel assembly onto the vehicle, tightening lug nuts to the manufacturer's specified torque.



Figure 2.1: A side profile view of the Bridgestone Dueler A/T RH-S tire, highlighting the sidewall markings and tread design.

3. USAGE GUIDELINES

Adhering to proper usage guidelines will maximize the life and performance of your Bridgestone Dueler A/T RH-S tires.

3.1 Tire Pressure

Maintain correct tire inflation pressure as specified by your vehicle manufacturer. This information is typically found on a placard inside the driver's side door jamb, glove compartment, or in the owner's manual. Check tire pressure monthly when tires are cold.

3.2 Tire Rotation

Regular tire rotation helps ensure even wear and extends tire life. Consult your vehicle owner's manual for recommended rotation patterns and intervals, typically every 5,000 to 7,500 miles.

3.3 Driving Conditions

- **On-Road:** These tires provide good on-road performance. Drive within legal speed limits and adjust speed for road conditions.
- **Off-Road:** The aggressive tread design is suitable for various off-road conditions. When driving off-road, reduce speed and be mindful of sharp objects that could damage tires. Consider slightly lowering tire pressure for increased traction on soft surfaces, but reinflate to recommended levels immediately upon returning to paved roads.
- **Wet Conditions:** The tire offers impressive wet traction. However, always exercise caution and reduce speed in wet or slippery conditions to prevent hydroplaning.



Figure 3.1: A Bridgestone Dueler A/T RH-S tire installed on a light truck, demonstrating its appearance and fitment.

4. MAINTENANCE

Regular maintenance is crucial for tire longevity and safety.

4.1 Tread Depth Inspection

Regularly check tread depth. The minimum legal tread depth is 2/32 inch (1.6 mm). Tires have built-in tread wear indicators (small bars molded into the tread grooves) that become flush with the tread surface when this limit is

reached. Replace tires when they reach this point.



Figure 4.1: A detailed view of the Bridgestone Dueler A/T RH-S tire tread pattern, showing the aggressive blocks and grooves designed for all-terrain performance.

4.2 Visual Inspection

Periodically inspect tires for signs of damage, such as cuts, cracks, bulges, or punctures. Remove any embedded objects like nails or stones. If damage is found, have the tire inspected by a professional immediately.

4.3 Cleaning

Clean tires with mild soap and water. Avoid harsh chemicals or petroleum-based products that can degrade rubber compounds.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your tires.

5.1 Uneven Tread Wear

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

5.2 Vibration

- **Cause:** Unbalanced wheels, bent rim, or damaged tire.
- **Solution:** Have tires re-balanced. Inspect wheels and tires for damage.

5.3 Slow Leak or Puncture

- **Cause:** Nail, screw, or other sharp object embedded in the tire.
- **Solution:** Do not remove the object. Drive carefully to a professional tire service center for inspection and repair. Not all punctures are repairable.

6. SPECIFICATIONS

Detailed specifications for the Bridgestone Dueler A/T RH-S tire (Model 5493).

Feature	Detail
Brand	Bridgestone
Model	Dueler A/T RH-S
Model Number	5493
Size	275/60R20
Load Index / Speed Rating	115 S
Section Width	275 Millimeters
Load Capacity	5906.2 Pounds (per tire)
Tread Depth	12/32nds
Tread Type	Symmetrical
Tire Diameter	33.00 inches
Construction Type	Radial

Feature	Detail
Item Weight	39.7 Pounds
UPC	092971285869
UTQG	400BB

7. WARRANTY AND SUPPORT

Bridgestone tires are backed by a manufacturer's warranty. Specific warranty terms and conditions, including coverage details and limitations, can vary. It is important to review the official Bridgestone warranty documentation provided at the time of purchase or available on the Bridgestone website.

7.1 How to Obtain Warranty Service

If you believe your tire qualifies for warranty service, please contact an authorized Bridgestone dealer. They will inspect the tire and guide you through the warranty claim process.

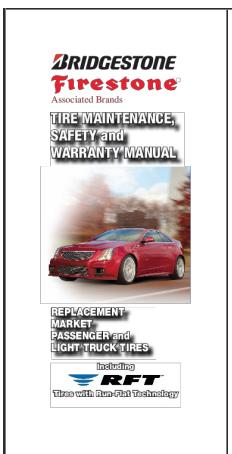
7.2 Customer Support

For further assistance, questions, or to locate an authorized dealer, please visit the official Bridgestone website or contact their customer service department directly. Contact information can typically be found on the Bridgestone corporate website.

Note: Always retain your purchase receipt and any installation records, as these may be required for warranty claims.

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Related Documents - Dueler A/T RH-S

	<p><u>Bridgestone and Firestone Tire Care: Maintenance, Safety, and Warranty Guide</u></p> <p>Comprehensive guide from Bridgestone and Firestone covering essential tire maintenance, safety practices, and warranty information for passenger and light truck tires, including Run-Flat Technology (RFT).</p>
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Scan Your Tire Label
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October 1 - 31, 2025. Purchase a Bridgestone Alenza tire with a qualifying purchase of Bridgestone tires.
Receive a \$70 Bridgestone Prepaid Mastercard with a qualifying purchase of Bridgestone DriveGuard, Dueler, Ecopia, Potenza, Turanza, or WeatherPeak tires. See details and terms for details.

Follow the prompts to receive information about your purchase and QR code for this offer.

Enter your shipping information.

Complete a short survey.

**80\$ Bridgestone Alenza® products,
670\$ Bridgestone DriveGuard®, Dueler®, Ecopia®,
Potenza®, Turanza® or WeatherPeak® products.**

May 15, 2025. To receive this offer, you must purchase the 2025 Fall Bridgestone Alenza tire with a qualifying purchase of Bridgestone tires. You must submit your claim. You're issued an email with your Claim # number.

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Bridgestone Tire Promotion: Get \$80 or \$70 Prepaid Mastercard with Qualifying Tire Purchase

Details of the Bridgestone Fall 2025 tire promotion. Receive an \$80 Bridgestone Prepaid Mastercard with Alenza tires or a \$70 Mastercard with DriveGuard, Dueler, Ecopia, Potenza, Turanza, or WeatherPeak tires. Offer valid October 1-31, 2025. See terms and conditions for details.

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Solutions for your journey

Get up to
\$120 back by mail on a Bridgestone Prepaid Mastercard® with the purchase of a set of 4 eligible Bridgestone tires.

SEPTMBER 15 - DECEMBER 7, 2025

Bridgestone
Solutions for your journey

\$120 back by mail on a Bridgestone Prepaid Mastercard® with the purchase of 4 eligible Bridgestone tires*
Offer valid 9/15/25 - 12/7/25. Includes eligible tire models and terms.

September 15 - December 7, 2025

An advertisement for Bridgestone tires. It features a black car wheel with a Bridgestone tire. The text 'BRIDGESTONE' and 'TOUTES LES MARQUES POUR VOTRE VOITURE' is at the top left. Below the wheel, it says 'Obtenez jusqu'à' and '120\$'. A small text box says 'par la poste, sous forme de chèque de 120\$ à l'ordre de Bridgestone' and 'jusqu'à 120\$ sur l'achat de quatre (4) pneus éligibles'. At the bottom, it says 'EN VILLEUR DU 15 SEPTEMBRE AU 7 DÉCEMBRE 2025' and includes a QR code.

Product Information Sheet	
EU Tyre Label Regulation (EU) 2019/2020	
Product identifier	BLIZZAK LM005
Size	215/60 R17 96H
Load index	96
Speed rating	H
Wet grip (μ)	0.70
Rolling resistance (kN)	2.0
CO ₂ emissions (g/km)	174
External noise (dB)	74
Internal noise (dB)	74
EU Tyre Label Regulation (EU) 2020/740	
Informační list výrobku	
EU Tyre Label Regulation (EU) 2019/2020	
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