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› Instruction Manual for Forerunner SKS-9 Skid Steer Tires (12-16.5)

Forerunner SKS-9

Forerunner SKS-9 Skid Steer Tires Instruction Manual

Model: SKS-9 (MH230301FX12165)

PRODUCT OVERVIEW

This manual provides essential information for the installation, operation, and maintenance of your Forerunner SKS-9 Skid Steer Tires. These heavy-duty tires are designed for severe applications and mixed-surface operations, offering enhanced tread life, excellent traction, and puncture resistance.

The product includes a set of four 12-16.5 Forerunner SKS-9 Skid Steer Tires, pre-mounted on 8-lug wheels/rims, ready for immediate installation on compatible machinery.



Image: A complete set of four Forerunner SKS-9 skid steer tires, each mounted on a bright yellow 8-lug wheel, displayed against a white background.

KEY FEATURES

- **Heavy-Duty Construction:** 14-ply rating for durability and load capacity.
- **Optimized Traction:** Self-cleaning tread design provides excellent grip in various conditions, including snow.
- **Versatile Performance:** SKS-9 non-directional tread pattern suitable for off-road, all-terrain, and hard surfaces like rock, asphalt, and concrete.

- **Enhanced Tread Life:** Designed for longevity in severe applications.
- **Puncture Resistance:** Robust design to minimize punctures.
- **Pre-mounted:** Tires come mounted on standard 8-lug skid steer rims for quick installation.

SETUP AND INSTALLATION

Fitment Guide

These tires are designed to fit a wide range of skid steer loaders. The included 8-lug rims feature a 6-inch center hole and an 8-inch lug pattern, which is common across many manufacturers.

Confirmed Compatibility:

- CAT models: 236, 242, 246, 248, 252, 256, 262, 272.
- Generally compatible with most Bobcat, Case, Daewoo, Gehl, John Deere, Mustang, New Holland, Kubota, Volvo, Takeuchi, Scat Trak, and Thomas machines that use an 8-lug rim.

Important Fitment Details:

- Rim offsets are 7.79 inches from the valve stem side with 2.6785 inches backspacing.
- While the 8-lug pattern is standard, rim offset can vary between manufacturers. Most rims are interchangeable, but it is recommended to verify your machine's specifications against these measurements.

If you are unsure about compatibility, consult your machine's manual or contact the manufacturer with your machine model details.

Installation Procedure

The Forerunner SKS-9 tires are delivered pre-mounted on rims, simplifying the installation process. They are ready to be directly mounted onto your skid steer machine.

1. **Safety First:** Ensure the skid steer is on a stable, level surface and properly secured to prevent accidental movement. Engage parking brake and block wheels if necessary.
2. **Remove Old Tires:** Loosen and remove the lug nuts from the existing wheel assembly. Carefully remove the old tire and rim.
3. **Position New Tire:** Align the bolt holes of the new Forerunner SKS-9 tire and rim assembly with the wheel studs on your machine.
4. **Secure Tire:** Hand-tighten the lug nuts onto the studs.
5. **Torque Lug Nuts:** Using a torque wrench, tighten the lug nuts to the manufacturer's specified torque settings for your skid steer model. Tighten in a star pattern to ensure even seating.
6. **Repeat:** Install all four tires following the same procedure.

It is crucial to follow your skid steer manufacturer's guidelines for wheel installation and torque specifications to ensure safe and proper operation.



Image: Two pairs of Forerunner SKS-9 skid steer tires, mounted on yellow rims, are stacked on the ground outdoors, ready for installation.

OPERATING GUIDELINES

The Forerunner SKS-9 tires are engineered for optimal performance in demanding environments. Understanding their characteristics will help maximize their efficiency and lifespan.

- **All-Terrain Capability:** The SKS-9 tread design, with its stepped shoulder lugs and high lug-to-void ratio, provides excellent traction across diverse surfaces including dirt, mud, snow, rock, asphalt, and concrete.
- **Self-Cleaning Tread:** The tread pattern is designed to eject dirt and stones, maintaining maximum grip and preventing debris buildup, which is particularly beneficial in muddy or snowy conditions.
- **Non-Directional Design:** The non-directional tread allows for flexible mounting and rotation, contributing to even wear and extended tire life.





Image: Three Forerunner SKS-9 skid steer tires, mounted on yellow rims, are stacked vertically outdoors, showcasing their deep, aggressive tread pattern.

MAINTENANCE

Regular maintenance is crucial for extending the life and ensuring the safe operation of your Forerunner SKS-9 tires.

- **Tire Pressure:** Maintain the recommended maximum pressure of **90 PSI** (Pounds per Square Inch). Check tire pressure regularly, ideally before each use, when tires are cold. Proper inflation ensures optimal performance, load capacity, and prevents premature wear.
- **Visual Inspection:** Periodically inspect tires for signs of wear, cuts, punctures, or embedded debris. Remove any foreign objects carefully.
- **Tread Depth:** Monitor tread depth. While the SKS-9 features a deep 37/32nd tread, consistent monitoring helps identify uneven wear patterns that may indicate underlying issues with the machine or inflation.
- **Cleaning:** The self-cleaning tread design minimizes debris retention, but occasional cleaning can help maintain optimal performance and allow for thorough inspection.
- **Foam Filling (Optional):** These are air-filled pneumatic tires. For applications requiring extreme puncture resistance or stability, foam filling is an available option at an additional cost. Consult with a tire professional for this service.



Image: A close-up view of the sidewall of a Forerunner SKS-9 skid steer tire, clearly showing the "FORERUNNER" brand name embossed into the rubber.

TROUBLESHOOTING

This section addresses common issues that may arise with skid steer tires. For complex problems, consult a qualified technician.

Problem	Possible Cause	Solution
Rapid or Uneven Tread Wear	Incorrect tire pressure, improper machine alignment, overloading, aggressive operation.	Check and adjust tire pressure to 90 PSI. Inspect machine alignment. Ensure load capacity is not exceeded. Adjust operating habits.

Problem	Possible Cause	Solution
Loss of Traction	Under-inflation, worn tread, excessive mud/debris buildup.	Verify tire pressure. Inspect tread depth. Clean tread grooves.
Tire Puncture/Leak	Sharp objects, valve stem damage.	Locate puncture. For minor punctures, professional repair may be possible. For significant damage, tire replacement is necessary. Check valve stem for leaks.
Difficulty Mounting	Incorrect rim specifications (lug pattern, center hole, offset) for machine.	Re-verify machine's wheel specifications against the tire's rim details (8-lug, 6" center hole, 8" lug to lug, 7.79" offset, 2.6785" backspacing).

SPECIFICATIONS

Attribute	Detail
Brand	Forerunner
Model	SKS-9
Manufacturer Part Number	MH230301FX12165
Size	12-16.5
Section Width	12 Inches
Tire Diameter	33 Inches
Load Capacity	6780 Pounds
Tread Depth	37/32nds
Tread Type	Symmetrical, Non-directional, Self-cleaning
Maximum Pressure	90 PSI
Ply Rating	14
Rim Width	9.75 Inches
Bolt Pattern (Number of Holes)	8
Bolt Pattern (Pitch Circle Diameter)	8 Inches
Backspace	2.69 Inches
Construction Type	Bias
Item Weight (per set)	560 pounds
Seasons	Year Round



Image: A close-up view of the sidewall of a Forerunner SKS-9 skid steer tire, showing the tire size "12-16.5" and model "SKS-9" clearly visible.

WHAT'S IN THE BOX

- Set of 4 Forerunner SKS-9 Skid Steer Tires, pre-mounted on 8-lug Rims.

WARRANTY AND SUPPORT

Forerunner products are designed for durability and performance. While specific warranty details are not provided in this manual, general support and return policies are typically available through your point of purchase.

- **Returns:** A 30-day easy return policy is generally offered for this product. Please refer to your purchase receipt or retailer's policy for specific terms and conditions.
- **Customer Support:** For any questions regarding fitment, maintenance, or performance, please contact the seller or manufacturer's customer support.

Always retain your proof of purchase for any warranty or support claims.

ASK A QUESTION ABOUT THIS MANUAL

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question