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Oregon 490-709

Oregon Replacement Part BLADE FUSION GATOR MULCHER MAG JD 19

Model: 490-709

Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Oregon Replacement Part BLADE FUSION GATOR MULCHER MAG JD 19, Model 490-709. This blade is designed as a direct replacement for specific John Deere models, enhancing mulching capabilities.
It is crucial to read and understand all instructions before attempting any installation or maintenance procedures. Keep this manual for future reference.

Safety Information

WARNING: Always wear appropriate personal protective equipment (PPE), including heavy-duty gloves and eye protection, when handling or working near mower blades. Blades are sharp and can cause severe injury.

- Ensure the mower engine is off and the spark plug wire is disconnected before performing any work on the blade.
- Never attempt to sharpen or balance a blade while it is attached to the mower.
- Inspect the blade regularly for damage, cracks, or excessive wear. Replace damaged blades immediately.
- Keep hands and feet clear of the blade area during operation.
- Refer to your mower's original instruction manual for specific safety guidelines related to blade replacement and operation.

Setup and Installation

This section details the steps for safely replacing your old mower blade with the Oregon 490-709 Fusion Gator Mulcher Blade.

Tools Required:

- Heavy-duty work gloves

- Eye protection
- Wrench or socket set (appropriate size for blade bolt)
- Block of wood or blade removal tool (for securing blade)
- Wire brush (for cleaning)

Installation Steps:

1. **Prepare the Mower:** Ensure the mower engine is completely off and cool. Disconnect the spark plug wire to prevent accidental starting. If applicable, engage the parking brake.
2. **Access the Blade:** Carefully tilt the mower onto its side, ensuring the carburetor and air filter are facing upwards to prevent fuel or oil leaks. Alternatively, lift the mower using a suitable jack or lift, ensuring it is stable and secure.
3. **Remove Old Blade:** Place a block of wood between the blade and the mower deck to prevent the blade from turning. Using the appropriate wrench or socket, loosen and remove the blade bolt. Carefully remove the old blade, noting its orientation.
4. **Clean Mounting Area:** Use a wire brush to clean any grass clippings, dirt, or debris from the blade mounting area on the mower deck and spindle.
5. **Install New Blade:** Position the new Oregon 490-709 blade with the cutting edge facing the correct direction (usually indicated by an arrow or the raised side of the blade facing the deck). Ensure the center hole and any alignment pins or washers are correctly seated.
6. **Secure the Blade:** Reinstall the blade bolt and washer. Use the block of wood to secure the blade and tighten the bolt firmly to the manufacturer's specified torque (refer to your mower's manual). Do not overtighten.
7. **Final Check:** Reconnect the spark plug wire. Before starting the mower, manually rotate the blade to ensure it spins freely and does not wobble.

Figure 1: The Oregon Fusion Gator Mulcher Blade, Model 490-709. This image shows the blade's overall shape, cutting edges, and the central mounting hole with two smaller alignment holes.

Figure 2: A closer view of the Oregon Fusion Gator Mulcher Blade, highlighting the central mounting hole and the two smaller holes for alignment, crucial for proper installation on compatible mower spindles.

Operating Considerations

Once installed, the Oregon Fusion Gator Mulcher Blade operates as part of your lawn mower's cutting system. For optimal performance and safety:

- **Mulching Performance:** This blade is designed for mulching. For best results, mow when grass is dry and not excessively tall. Multiple passes may be required for very tall or dense grass.
- **Blade Balance:** A properly balanced blade is essential for smooth operation and to prevent excessive vibration, which can damage the mower. If you notice unusual vibration after installation, re-check the blade's seating and balance.
- **Foreign Objects:** Always clear the mowing area of rocks, sticks, and other debris before operating the mower. Striking foreign objects can damage the blade and the mower, and pose a safety hazard.

Maintenance

Regular maintenance extends the life of your blade and ensures consistent cutting performance.

- **Cleaning:** After each use, clean grass clippings and debris from the blade and underside of the mower deck. This prevents buildup that can hinder mulching performance and lead to rust.
- **Sharpening:** Sharpen the blade regularly, especially if you notice tearing of grass blades instead of clean cuts. Use a file or grinder, maintaining the original cutting angle. Ensure the blade remains balanced after sharpening.
- **Inspection:** Periodically inspect the blade for signs of wear, nicks, bends, or cracks. Even small cracks can lead to blade failure. Replace the blade if any significant damage is observed.
- **Storage:** If storing the mower for an extended period, clean and lightly oil the blade to prevent rust.

Troubleshooting

Problem	Possible Cause	Solution
Poor cut quality (torn grass)	Dull blade; Incorrect blade installation; Mowing wet or excessively tall grass.	Sharpen or replace blade; Reinstall blade correctly; Mow when grass is dry and at appropriate height.
Excessive vibration	Unbalanced blade; Bent blade; Loose blade bolt; Debris on blade or spindle.	Balance or replace blade; Tighten blade bolt; Clean blade and spindle area.
Blade not mulching effectively	Dull blade; Excessive grass height/density; Incorrect blade type for mulching (not applicable here as it's a mulching blade).	Sharpen blade; Mow more frequently or make multiple passes; Ensure deck is clear of debris.

Specifications

The following are the key specifications for the Oregon Replacement Part BLADE FUSION GATOR MULCHER MAG JD 19, Model 490-709:

- **Model Number:** 490-709
- **Brand:** Oregon
- **Center Hole Diameter (C.H. DIA):** 11/16"
- **Cut Direction:** Right

- **Length:** 19-1/2"
- **Thickness:** 0.2040"
- **Width:** 2-1/2"
- **Item Weight:** 3.25 pounds
- **Product Dimensions:** 8 x 8 x 8 inches (packaging/shipping dimensions)
- **Replaces OEM Part Numbers:** JOHN DEERE AM-100946, JOHN DEERE M82408, OREGON 91-392, PRIME LINE 7-04648, STENS 330-290, SUNBELT B1SB6011, WINDSOR 50-2515

Warranty and Support

For specific warranty information regarding your Oregon replacement part, please refer to the official Oregon website or contact Oregon customer support directly. Keep your purchase receipt as proof of purchase.
If you require further assistance with installation, operation, or troubleshooting, please contact Oregon customer service or consult an authorized service technician.

Figure 3: The "Authorized Oregon Distributor" logo, indicating genuine Oregon product.

Official Product Videos

No official product videos from the seller were found for this specific model in the provided data. Please refer to the manufacturer's official website or authorized channels for any available video resources.

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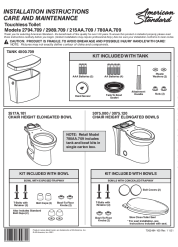
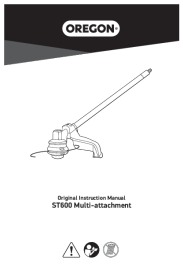
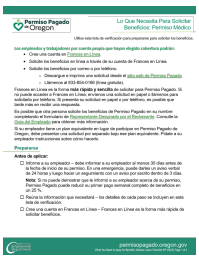
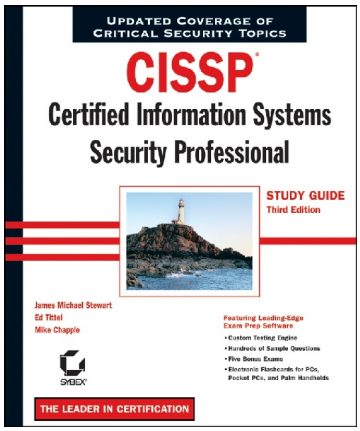
Related Documents - 490-709

	SeeLeveL II 709 Series Display Installation Guide & User Manual This manual provides comprehensive installation, operation, and troubleshooting guidance for the Garnet SeeLeveL II 709 Series tank monitoring system, designed for recreational vehicles. It details features, setup procedures, diagnostic tools, and warranty information.
	American Standard Touchless Toilet Installation, Care, and Maintenance Guide Comprehensive guide for installing, caring for, and maintaining American Standard Touchless Toilets, including troubleshooting tips and warranty information.

	[Troy-Bilt 13AL78BS023 Lawn Tractor: Features, Maintenance, and Accessories] Comprehensive guide for the Troy-Bilt 13AL78BS023 lawn tractor, covering preparation for spring, end-of-season maintenance, and available attachments and accessories. Includes model information and part numbers.
	[American Standard Touchless Toilet: Installation, Care, and Maintenance Guide] Get detailed installation, care, and troubleshooting instructions for American Standard Touchless Toilets (Models 2794.709, 2989.709, 215AA.709, 780AA.709). Ensure optimal performance and hygiene.
	[Oregon ST600 Multi-attachment: Original Instruction Manual] Official instruction manual for the Oregon ST600 Multi-attachment powerhead. Covers safety warnings, operation, maintenance, assembly, and specifications for residential lawn and garden use.
	[What You Need to Apply for Benefits: Medical Leave Checklist - Paid Leave Oregon] A comprehensive checklist from the State of Oregon Employment Department outlining the steps and required information to apply for Paid Leave Oregon medical leave benefits through the Frances en Línea system.

Documents - Oregon – 490-709



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MEMO

Date: March 16, 2022
To: Board of Directors
From: Dan Rubado, Sr. Project Manager, Planning and Evaluation
Subject: Recurve Analysis of Residential Insulation Impacts, 2013-2018

EXECUTIVE SUMMARY

Energy Trust used an impact analysis tool built by Recurve Analytics to evaluate energy savings from residential insulation projects completed in single-family and manufactured homes from 2013 to 2018. Energy savings were analyzed for ceiling, wall, and floor insulation projects in gas- and electric-heated homes. Projects that combined multiple insulation measures were also analyzed separately. Weather-normalized annual energy usage prior to the installation was compared with the year immediately following installation. The change in annual energy usage was evaluated against changes in energy usage during the same time period in a matched comparison group.

Residential insulation projects had energy savings that varied substantially and were not in line with savings claimed by Energy Trust's Residential program at the time. For electric-heated homes, electricity savings were about 40 percent lower than expected. We were unable to assess wall insulation savings in electric-heated homes due to a small available sample size. Overall electricity savings per home were estimated at 810 kWh per year for ceiling insulation and 430 kWh per year for floor insulation. Savings for combined ceiling and floor insulation projects were roughly additive. In gas-heated homes, gas savings were roughly double what was expected across measures. Overall gas savings per home were estimated at 93 therms per year for ceiling insulation, 75 therms per year for floor insulation, and 53 therms per year for wall insulation. Savings for combined insulation measures were roughly additive.

It is relatively common for real-world energy savings to differ from the engineering estimates used to claim savings for many energy efficiency measures. These types of discrepancies are identified through Energy Trust's evaluation process. Measure and program savings are then adjusted accordingly going forward. The differences in observed versus expected savings have a small impact on Residential program energy savings overall. Insulation measures in electric-heated homes made up less than 1 percent of the total electricity savings claims in the residential sector, from 2013 to 2018. In gas-heated homes, insulation measures made up only 4 percent of the total gas savings claims in the residential sector.

There were no clear trends in electricity or gas savings over time for different insulation measures. There were, however, many differences in gas and electricity savings for other factors, such as home size, home vintage, use of cooling, and annual energy usage. Many of these differences did not have a clear pattern across insulation measures and heating fuels. The strongest trend, by far, was the association between baseline annual energy usage and energy savings—savings increased sharply from low- to high-usage homes in both gas- and electric-heated homes.

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Dan Rubado Analysis of Energy Trust Residential Insulation Impacts 2013 2018 Documents Oregon Summary Memo Recurve Final energytrust org 2022 03 |||

MEMO Date: To: From: Subject: March 16, 2022 Board of Directors Dan Rubado, Sr. Project Manager, Planning and Evaluation Recurve Analysis of Residential Insulation Impacts, 2013-2018 EXECUTIVE SUMMARY Energy Trust used an impact analysis tool built by Recurve Analytics to evaluate energy savings ...

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