JENKINS IRON AND STEEL

Brushmower

Owner's Manual



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Built Strong. Built to Last. Made in the USA.

⚠ **READ THIS MANUAL COMPLETELY BEFORE OPERATING THIS ATTACHMENT.**

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Section 1: Introduction and Product Overview

Thank you for purchasing the Jenkins Iron and Steel Brushmower Attachment. Every Jenkins product is designed, engineered, and manufactured at our facility in Long Prairie, Minnesota. Our brushmower attachment is built to handle the toughest land-clearing and brush-control tasks with maximum durability and minimum downtime.

1.1 Product Description

The Jenkins Brushmower is a commercial-grade rotary mowing attachment designed for skid steer loaders. Featuring a heavy-duty ¼" free-floating deck design with lift straps, the brushmower is

engineered to follow ground contours while protecting both the attachment and the host machine from shock loads.

Powered by proven **Eaton Char-Lynn Hydraulics** and **Omni Gear Boxes**, the Jenkins Brushmower delivers reliable, high-torque cutting power through standard-flow hydraulic systems rated at **14–25 GPM**. The brushmower is rated for cutting material up to **6 inches in diameter**.



Jenkins Iron and Steel Brushmower Attachment — commercial-grade construction for demanding applications.

1.2 Key Features

- **¼" HD free-floating deck** with lift straps for independent ground tracking
- **Dual swing-away blades** for fast, easy replacement without removing the deck
- **Eaton Char-Lynn motor** with **Omni Gear Box** for reliable high-torque power
- **Standard flow operation:** 14–25 GPM
- **Material rating:** Up to 6" diameter
- **V-slots** cut in deck for improved airflow and material discharge
- **Built-in bypass manifolds** to protect the hydraulic system
- **6" rear roller** for consistent cutting height and smooth ground tracking

- **Two 13,000 lb rated straps** on front for deck flotation and shock absorption
- **Universal skid steer quick-attach** mounting
- **Optional accessories:** Wheel kit and push bar (sold separately)

1.3 Available Sizes

The Jenkins Brushmower is available in three sizes to match your machine and application requirements:

Model	Overall Width	Cutting Width
66" Model	66"	60"
76" Model	76"	72"
88" Model	88"	84"

1.4 Ideal Applications

- Land clearing and site preparation
- Pasture reclamation and renovation
- Right-of-way (ROW) maintenance
- Brush control and vegetation management
- Property maintenance and fence line clearing
- Trail clearing and recreational path maintenance
- Municipal and utility corridor work

Section 2: Safety Warnings and Precautions

> ⚠ **DANGER — READ BEFORE OPERATING**
>
> Failure to read and follow all safety instructions in this manual can result in serious injury or death. The operator is responsible for safe operation of this attachment at all times. Keep this manual with the attachment for reference.

2.1 General Safety

- **Personal Protective Equipment (PPE) is required at all times:** Hard hat, safety glasses, hearing protection, steel-toe boots, and heavy work gloves.
- A **polycarbonate door** on the skid steer cab is **strongly recommended** to protect the operator from thrown debris.
- Maintain a **75-foot safety perimeter** around the operating area at all times.
- **Trained operators only.** Never allow untrained personnel to operate this attachment.
- Keep all **bystanders, children, and animals** clear of the work area.
- **Never operate the brushmower in enclosed spaces.** Exhaust fumes and thrown debris create serious hazards.
- **Inspect the mowing area** thoroughly before beginning work. Remove or mark all debris, rocks, wire, cable, and other foreign objects that could be thrown or cause damage.

2.2 Hydraulic Safety

> ⚠ **WARNING — HYDRAULIC FLUID UNDER PRESSURE**
>
> Hydraulic fluid escaping under pressure can penetrate skin and cause serious injury, including infection and potential amputation. **Do NOT use your hands or fingers to check for leaks.** Use a piece of cardboard or paper to detect leaks. If hydraulic fluid penetrates the skin, seek immediate

medical attention — do not delay.

- **Relieve all hydraulic pressure** before disconnecting any hoses, fittings, or couplers.
- **Inspect all hoses, fittings, and connections** before each use. Look for cracks, abrasion, bulging, leaks, and loose connections.
- **Replace damaged hydraulic components immediately.** Never operate the brushmower with compromised hydraulic lines.
- Use a **piece of cardboard** — never your bare hand — to check for hydraulic leaks.
- Ensure hydraulic fluid is at the proper level before operation.

2.3 Operational Safety

⚠ **CAUTION — SPINNING BLADES**

The brushmower blades rotate at high speed and can cause severe injury or death. Never reach under the deck while the blades are spinning or the hydraulic system is engaged. Always wait for blades to come to a complete stop before approaching the underside of the deck.

- **Never reach under the deck** while the brushmower is running or the hydraulic system is engaged.
- **Watch for thrown debris.** The brushmower can throw rocks, sticks, and other material at high velocity.
- **Avoid stumps, rocks, and metal debris.** These can damage blades and be thrown from the mower.
- **Do not exceed the 6" material diameter rating.** Attempting to cut material larger than 6" can damage the attachment and create safety hazards.
- **Avoid steep slopes.** Operating on excessive grades can cause loss of machine control.

- **Keep the deck level** during operation for even cutting and safe performance.
- **Disengage hydraulics before leaving the machine.** Never leave the cab with the brushmower engaged.

2.4 Blade Safety

> ⚠ **WARNING — BLADE REPLACEMENT AND SERVICE**
>
> Before performing any blade service, maintenance, or replacement: (1) Relieve all hydraulic pressure. (2) Ensure blades have come to a **complete stop**. (3) Disconnect hydraulic supply lines. (4) Block the deck securely if raised. Use proper torque specifications when installing blade bolts. **Inspect blade bolts daily** — loose blade bolts can cause catastrophic blade release.

Section 3: Specifications

The following table provides complete specifications for all three Jenkins Brushmower models. Select the model that best matches your skid steer's hydraulic capacity and your application requirements.

Specification	66" Model	76" Model	88" Model
Overall Width	66"	76"	88"
Cutting Width	60"	72"	84"
Cutting Height	2.5"	2.5"	2.5"
Material Rating	Up to 6" diameter	Up to 6" diameter	Up to 6" diameter
Blade Configuration	Two 24" swing-away	Two 30" swing-away	Two 30" swing-away
Deck Thickness	¼" HD steel	¼" HD steel	¼" HD steel
Deck Type	Free-floating with lift straps	Free-floating with lift straps	Free-floating with lift straps
Drive System	Eaton Char-Lynn + Omni	Eaton Char-Lynn + Omni	Eaton Char-Lynn + Omni

Specification	66" Model	76" Model	88" Model
	Gear Box	Gear Box	Gear Box
Hydraulic Flow	14–25 GPM (standard flow)	14–25 GPM (standard flow)	14–25 GPM (standard flow)
Weight	1,256 lbs	1,430 lbs	1,770 lbs
Wheel Kit Weight	245 lbs	245 lbs	245 lbs
Push Bar Weight	88 lbs	88 lbs	88 lbs
Rear Roller	6"	6"	6"
Front Straps	Two 13,000 lb rated	Two 13,000 lb rated	Two 13,000 lb rated
Bypass Manifolds	Yes	Yes	Yes
V-Slots in Deck	Yes	Yes	Yes
Coupler Type	Universal skid steer quick-attach	Universal skid steer quick-attach	Universal skid steer quick-attach

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Section 4: Construction and Design Details

The Jenkins Brushmower is built with commercial-grade components and construction methods designed for years of demanding service. Below is a detailed overview of each major design element.

4.1 ¼" HD Steel Deck Construction

The mowing deck is fabricated from ¼" heavy-duty steel plate, providing exceptional resistance to impact, abrasion, and wear. All welds are full-penetration, and critical stress areas are reinforced for maximum structural integrity.

4.2 Free-Floating Deck Design

Unlike rigidly mounted mower attachments, the Jenkins Brushmower features a free-floating deck that rides independently on lift straps. This design allows the deck to follow ground contours naturally, delivering a more even cut across uneven terrain while protecting the host machine from shock loads caused by striking obstacles or traversing rough ground.

4.3 Front Lift Straps

Two **13,000 lb rated straps** are mounted on the front of the deck. These straps provide deck flotation (allowing the deck to rise and fall independently) and shock absorption (dampening impact forces before they reach the skid steer's lift arms). The straps are inspectable and replaceable.

4.4 6" Rear Roller

A 6-inch roller is mounted across the rear of the deck. The roller sets the cutting height at 2.5" and provides smooth ground tracking, preventing the deck from digging into the soil on uneven terrain. The roller is supported by sealed bearings for long service life.

4.5 Dual Swing-Away Blades

The brushmower is equipped with two swing-away cutting blades. The swing-away design allows blades to pivot upon striking a solid object, reducing the risk of blade or spindle damage. Blade replacement is fast and straightforward — blades can be changed without removing the deck from the skid steer.

4.6 V-Slots in Deck

V-shaped slots are cut into the deck surface to promote airflow and material discharge during mowing. These slots prevent material buildup under the deck, improving cutting performance and reducing the strain on the hydraulic system.

4.7 Built-In Bypass Manifolds

Integrated bypass manifolds protect the skid steer's hydraulic system by providing a pressure-relief path. If the brushmower encounters a stall condition or is overloaded, the bypass manifolds allow hydraulic fluid to circulate without damaging the pump or motor.

4.8 Drive System

The brushmower is driven by a proven **Eaton Char-Lynn hydraulic motor** paired with an **Omni Gear Box**. This combination delivers reliable, high-torque power to the cutting blades while maintaining smooth operation across the 14–25 GPM standard flow range.

4.9 Universal Skid Steer Quick-Attach

The brushmower features a universal skid steer quick-attach mounting plate, compatible with all standard skid steer loaders. No adapters or modifications are required for mounting.

Section 5: What's Included

Each Jenkins Brushmower ships fully assembled and ready to mount. The following components are included:

Item	Status
Fully assembled brushmower deck (¼" HD steel)	Included — assembled
Eaton Char-Lynn hydraulic motor	Pre-installed
Omni Gear Box	Pre-installed
Dual swing-away cutting blades	Installed
Hydraulic hoses	Included
½" flat-face hydraulic couplers	Included
6" rear roller	Installed
Two 13,000 lb front straps	Installed
Bypass manifolds	Installed
Owner's Manual	Included

NOTE — Optional Accessories

The **Wheel Kit** (245 lbs) and **Push Bar** (88 lbs) are optional accessories and are **sold separately**. Contact Jenkins Iron and Steel or your authorized dealer to order these accessories. See Section 6.7 for optional accessory installation instructions.

Section 6: Installation and Mounting

6.1 Pre-Installation Checklist

Complete the following checks before mounting the brushmower to your skid steer:

1. **Verify hydraulic flow (GPM):** Confirm your skid steer delivers between 14 and 25 GPM to the auxiliary hydraulic circuit. Consult your skid steer's operator manual for flow specifications.
2. **Inspect the host machine:** Ensure the skid steer is in safe working condition — check lift arms, quick-attach plate, and hydraulic couplers for wear or damage.
3. **Check hydraulic fluid:** Verify the skid steer's hydraulic fluid is at the proper level and in good condition. Top off or replace fluid as needed.
4. **Inspect the brushmower:** Remove any shipping restraints. Visually inspect the deck, blades, straps, roller, and hydraulic components for shipping damage.
5. **Clear the work area:** Position the brushmower on firm, level ground with adequate clearance for the skid steer to approach safely.

6.2 Mounting Procedure

> ⚠ **WARNING**
>
> Ensure the skid steer is on firm, level ground before mounting the attachment. Keep all bystanders clear of the machine during attachment mounting and dismounting. Never place hands or body parts between the attachment plate and the skid steer's quick-attach mechanism.

Follow these steps to mount the Jenkins Brushmower to your skid steer loader:

6. Position the skid steer on firm, level ground facing the brushmower attachment.
7. Lower the skid steer's lift arms to align the quick-attach plate with the brushmower's mounting plate.
8. Drive the skid steer slowly forward, engaging the upper lip of the quick-attach plate with the top edge of the brushmower's mounting plate.
9. Tilt the quick-attach plate forward (dump position) until the lower hooks fully engage the bottom of the mounting plate.
10. Activate the skid steer's quick-attach locking mechanism. Verify that the locking pins are fully engaged and the attachment is secure.
11. Exit the cab (with hydraulics disengaged) and visually confirm that both locking pins are fully seated and the attachment is properly secured.
12. Connect the hydraulic supply hose from the brushmower to the skid steer's auxiliary hydraulic supply port using the ½" flat-face couplers. Ensure the coupler is fully seated and locked.
13. Connect the hydraulic return hose from the brushmower to the skid steer's auxiliary hydraulic return port. Ensure the coupler is fully seated and locked.
14. Return to the cab, start the skid steer, and slowly raise the brushmower off the ground. Check for hydraulic leaks at all connections.
15. Briefly engage the auxiliary hydraulics to spin the blades at low RPM. Listen for abnormal sounds and verify smooth blade rotation before proceeding to full operation.

6.3 Hydraulic Hookup Details

The brushmower uses **½" flat-face hydraulic couplers** for both supply and return lines. Flat-face couplers minimize fluid loss and air ingestion during connection and disconnection.

- **Supply line:** Connect the brushmower's supply hose (typically marked with a tag or color) to the skid steer's auxiliary hydraulic supply (pressure) port.
- **Return line:** Connect the brushmower's return hose to the skid steer's auxiliary hydraulic return (tank) port.
- Verify that both couplers click and lock into position. Pull gently on each hose to confirm they are seated.

> **TIP**
>
> If couplers are difficult to connect, relieve residual hydraulic pressure by cycling the skid steer's auxiliary hydraulic controls several times with the engine off and the ignition in the "on" position.

6.4 Verifying Free-Floating Deck Movement

After mounting, confirm that the deck moves freely on the lift straps:

16. With the brushmower raised slightly off the ground, push down gently on one side of the deck. The deck should move independently of the lift arms.
17. Release the deck. It should return to a neutral, level position.
18. Repeat on the other side.
19. If the deck does not float freely, inspect the straps for binding, twisting, or interference from shipping restraints.

6.5 Checking Strap Tension and Roller Height

- Inspect both front straps for proper length and even tension. Both straps should be the same length and hang evenly when the deck is suspended.

- Confirm the 6" rear roller rotates freely and is not bent or damaged.
- Set the mower on the ground and verify the deck sits level with the roller supporting the rear. Cutting height should be approximately 2.5" from the ground.

6.6 Dismounting Procedure

20. Park the skid steer on firm, level ground. Lower the brushmower to the ground.
21. **Disengage the auxiliary hydraulics** and shut off the engine. Wait for all blade rotation to stop completely.
22. Exit the cab. **Relieve hydraulic pressure** by cycling the auxiliary controls with the engine off.
23. Disconnect the hydraulic supply and return hoses at the flat-face couplers. Cap all open couplers and hose ends to prevent contamination.
24. Release the skid steer's quick-attach locking mechanism.
25. Slowly back the skid steer away from the brushmower, tilting the quick-attach plate to disengage. Ensure the brushmower is stable on the ground before leaving it unattended.

6.7 Optional Accessory Installation

6.7.1 Wheel Kit

The optional wheel kit (245 lbs) provides additional ground tracking support and helps maintain a consistent cutting height in varied terrain. Mount the wheel kit brackets to the designated bolt holes on each side of the deck using the supplied hardware. Adjust wheel height to match the rear roller for level cutting. Torque all bolts to manufacturer specifications.

6.7.2 Push Bar

The optional push bar (88 lbs) mounts to the front of the deck and is used to push over small saplings and standing brush before the blades engage, improving cutting efficiency in heavy material. Bolt the push bar to the pre-drilled mounting holes on the front of the deck using the supplied hardware. Torque all bolts to manufacturer specifications.

Section 7: Operation

7.1 Pre-Operation Checklist

Complete these checks before every use:

26. Walk the mowing area and remove or mark all debris, rocks, wire, cables, and foreign objects.
27. Confirm the 75-foot safety perimeter is clear of all bystanders, children, and animals.
28. Verify the quick-attach locking pins are fully engaged.
29. Inspect hydraulic hoses and couplers for leaks, cracks, or damage.
30. Check blade bolts for tightness — retorque if needed.
31. Inspect blades for cracks, excessive wear, or damage. Replace as needed.
32. Verify the rear roller rotates freely and the deck floats properly on the straps.
33. Confirm all PPE is worn: hard hat, safety glasses, hearing protection, steel-toe boots, heavy gloves.

7.2 Starting and Engaging the Brushmower

34. Start the skid steer and allow the engine to reach operating temperature.
35. Raise the brushmower to the desired working height (typically 6–12 inches above the ground).
36. Engage the auxiliary hydraulics to begin blade rotation. Allow blades to reach full speed before lowering the deck into the material.
37. Slowly lower the deck to the cutting surface. Let the free-floating deck and rear roller establish the cutting height.

7.3 Proper Mowing Technique

- **Forward travel speed:** Maintain a slow, steady forward speed. In heavy brush, travel speed should be 1–2 MPH. In light grass and weeds, speed can be increased to 3–4 MPH. Let the blades do the work — do not force the mower through material.

- **Overlap passes:** Overlap each pass by 4–6 inches to prevent leaving uncut strips.
- **Working with terrain:** Allow the free-floating deck to follow the ground contour. Avoid sudden lift arm adjustments while mowing — let the straps and roller manage the deck height.
- **Mowing direction:** Mow with the grade when possible. On moderate slopes, mow across the slope (side-hilling). Avoid mowing up or down steep grades.

7.4 Material Size Guidelines

> ⚠ **CAUTION**
>
> The Jenkins Brushmower is rated for material up to **6 inches in diameter**. Attempting to cut material larger than 6" can damage the blades, gear box, and hydraulic system, and may create dangerous thrown-debris hazards. If you encounter material exceeding 6" in diameter, skip it or use an alternative method to remove it first.

Material Type	Recommended Approach
Light grass and weeds (under 1")	Full travel speed (3–4 MPH), single pass
Medium brush (1"–3")	Moderate speed (2–3 MPH), single pass
Heavy brush (3"–6")	Slow speed (1–2 MPH), may require multiple passes
Material over 6"	**DO NOT ATTEMPT** — exceeds rating

7.5 Using the Free-Floating Deck

The free-floating deck is designed to work best when the operator allows it to ride naturally on the terrain. Avoid "pinning" the deck by pressing the lift arms down — this negates the free-floating design and can cause uneven cutting, deck damage, or machine stress. On uneven terrain, raise the lift arms slightly to increase strap tension and allow maximum deck travel.

7.6 Tips for Different Applications

Heavy Brush (3"–6")

- Reduce travel speed to 1–2 MPH.
- Allow blades to reach full speed before entering material.
- Use the push bar (if installed) to lay material down before cutting.
- Make multiple passes if needed — first pass to knock down, second pass to clean up.

Light Grass and Maintenance Mowing

- Increase travel speed to 3–4 MPH.
- Single pass is typically sufficient.
- Overlap passes by 4–6 inches for a clean finish.

Mixed Material

- Adjust speed as you encounter varying material density.
- Watch and listen for blade loading — if the engine bogs or blades slow, reduce travel speed.
- Be prepared for hidden obstacles in heavy vegetation.

7.7 Transport Position and Travel Procedures

- Raise the brushmower to the full-up transport position before traveling between work areas.
- Disengage the auxiliary hydraulics — blades must not spin during travel.
- Travel at a safe speed appropriate for ground conditions.
- Watch for overhead obstructions when the mower is raised.

7.8 What NOT to Do

> ⚠ **WARNING — PROHIBITED OPERATIONS**
>
> The following actions can cause equipment damage, personal injury, or death:

38. **DO NOT** exceed the 6" material diameter rating.
39. **DO NOT** mow over stumps, rocks, concrete, or metal debris.
40. **DO NOT** operate on extreme slopes where the skid steer may lose stability.
41. **DO NOT** back up while cutting — the brushmower is designed for forward mowing only.
42. **DO NOT** operate the brushmower with damaged or missing blades.
43. **DO NOT** allow anyone within the 75-foot safety perimeter during operation.
44. **DO NOT** attempt to clear jams while the hydraulic system is engaged or blades are spinning.
45. **DO NOT** operate the brushmower without performing the pre-operation checklist.

Section 8: Maintenance

> ⚠ **WARNING**
>
> Before performing any maintenance: (1) Shut off the skid steer engine. (2) Disengage all hydraulics. (3) Wait for all blade rotation to stop completely. (4) Relieve hydraulic pressure. (5) Block the deck if raised. Never perform maintenance with the engine running or blades spinning.

8.1 Daily Inspection Checklist

Perform the following inspections before each day of operation:

46. Inspect blades for cracks, chips, excessive wear, or bending.
47. Check blade bolt torque — retorque as needed.
48. Inspect hydraulic hoses for cracks, abrasion, bulging, or leaks.
49. Check hydraulic coupler connections for secure seating and leaks.
50. Inspect the front lift straps for fraying, stretching, or damage.
51. Check the rear roller for free rotation and bearing condition.
52. Inspect the deck for cracks, dents, or structural damage.
53. Check V-slots for material buildup or blockage.
54. Verify the quick-attach plate and locking pins for wear.
55. Check the gear box and motor for oil leaks or unusual conditions.

8.2 Greasing Schedule

Grease all fittings every **8–10 hours of operation** using a high-quality, multi-purpose lithium-based grease (NLGI #2 grade).

Grease Point	Location	Frequency	Notes
Gear Box Input Shaft	Top of gear box	Every 8–10 hours	1–2 pumps per fitting
Motor Shaft	Hydraulic motor housing	Every 8–10 hours	1–2 pumps per fitting
Roller Bearings	Both ends of rear roller	Every 8–10 hours	2–3 pumps per bearing
Strap Pivot Points	Front strap attachment points	Every 8–10 hours	1–2 pumps per pivot

8.3 Blade Inspection, Sharpening, and Replacement

- **Inspection:** Check blades daily for cracks, chips, bending, or excessive wear. Replace any blade that is cracked or has lost more than ½" of material from the cutting edge.

- **Sharpening:** Blades may be sharpened with an angle grinder to restore the cutting edge. Maintain the original bevel angle. Sharpen both blades equally to maintain balance.
- **Replacement:** The swing-away blade design allows replacement without removing the deck.

    Relieve all hydraulic pressure and ensure blades have stopped completely.

    Remove the blade bolt using the appropriate wrench.

    Swing the old blade off the pivot and remove.

    Install the new blade on the pivot and secure with the blade bolt.

    Torque the blade bolt to the manufacturer's specification.

    Repeat for the opposite blade. Always replace blades in pairs.

8.4 Hydraulic System Maintenance

- **Hose inspection:** Inspect all hoses before each use for cracks, abrasion, bulging, or leaks. Replace hoses that show any signs of deterioration.
- **Fluid level:** Check the skid steer's hydraulic fluid level daily. Maintain the fluid at the manufacturer's recommended level.
- **Coupler care:** Keep flat-face couplers clean. Wipe the coupler faces before each connection. Cap all couplers when the brushmower is disconnected to prevent contamination.
- **Hydraulic fluid:** Change the skid steer's hydraulic fluid and filters per the skid steer manufacturer's recommendations.

8.5 Gear Box Oil Level Check and Change

- **Check oil level:** Check the gear box oil level every 50 hours of operation. The gear box has a fill/check plug on the side — oil should be visible at the bottom of the plug hole when level.

- **Oil change:** Change the gear box oil every 500 hours of operation or annually, whichever comes first. Use 80W-90 gear oil or equivalent. Drain the old oil through the bottom drain plug, replace the plug, and fill to the proper level through the fill/check plug.

8.6 Deck Inspection

- Inspect the deck for cracks, especially around weld joints, mounting points, and high-stress areas.
- Check for excessive wear on the bottom of the deck from ground contact.
- Clear all V-slots of material buildup. Clogged V-slots reduce airflow and cutting performance.
- Repair or replace the deck if cracks are found. Do not weld over cracks without consulting Jenkins Iron and Steel.

8.7 Strap Inspection and Replacement

- Inspect straps daily for fraying, stretching, cracking, or deformation.
- Replace straps immediately if any damage is found — damaged straps can fail during operation, causing loss of deck control.
- Both straps should be the same length. If one strap stretches, replace both straps as a pair.

8.8 Roller Inspection

- Inspect the rear roller for wear, dents, bending, and free rotation.
- Check roller bearings for smooth rotation and excessive play. Replace bearings if worn.
- A damaged roller will cause uneven cutting height and poor ground tracking.

8.9 Storage Guidelines

- **Clean:** Thoroughly clean the entire brushmower, removing all debris, mud, and vegetation from the deck, blades, V-slots, roller, and hydraulic components.
- **Grease:** Grease all fittings before storage.

- **Store on blocks:** Place the brushmower on blocks or a pallet to keep the deck and blades off the ground, preventing moisture damage and blade dulling.
- **Relieve pressure:** Relieve all hydraulic pressure and cap all couplers and hose ends.
- **Cover or store indoors:** If possible, store the brushmower indoors or under a cover to protect it from the elements.
- **Blade care:** Coat blade edges with light oil or rust preventative before storage.

Section 9: Troubleshooting

Use the following diagnostic table to identify and resolve common issues. If the problem persists after performing the recommended solution, contact Jenkins Iron and Steel for technical support.

Symptom	Possible Cause	Solution
1. Blades won't spin	Low hydraulic flow or pressure; hydraulic connection issue; motor failure	Verify skid steer auxiliary hydraulics are engaged. Check all coupler connections for full seating. Verify GPM is within 14–25 range. If motor is unresponsive, contact Jenkins for motor diagnosis.
2. Blades spin slowly	Insufficient GPM; restriction in hydraulic lines; worn motor	Verify skid steer GPM output. Check for kinks, crushed hoses, or restrictions in supply and return lines. If flow is adequate and lines are clear, the motor may be worn — contact Jenkins.
3. Uneven cut	Blade wear (uneven); roller height issue; deck not floating properly; strap damage	Inspect and replace worn blades (replace in pairs). Check roller for damage or uneven wear. Verify deck floats freely on straps. Check both straps for equal length and condition.
4. Excessive vibration	Blade damage or imbalance; loose blade bolts; gear box issue	Immediately disengage hydraulics and shut down. Inspect blades for damage, cracking, or uneven wear. Check all blade bolts for proper torque. Inspect gear box for damage or loose mounting bolts.
5. Poor material discharge	V-slots clogged; blade wear (dull edges); travel speed too fast	Clear all V-slots of debris buildup. Sharpen or replace blades. Reduce forward travel speed to allow material to clear the deck.
6. Hydraulic fluid	Exceeding flow rating; restriction in lines; low	Verify GPM is within 14–25 range. Check for restrictions or crimped hoses. Top off hydraulic fluid. Allow the

Symptom	Possible Cause	Solution
overheating	hydraulic fluid level	system to cool before resuming operation. Check bypass manifold function.
7. Deck won't float properly	Strap damage or binding; debris lodged under deck; roller issue	Inspect straps for twisting, binding, or damage. Clear debris from under the deck. Check roller bearings for free rotation. Ensure no shipping restraints are still attached.
8. Material wrapping around spindle	Material too fibrous (wire, rope, vines); blade dull; travel speed too high	Clear wrapped material (with engine off, hydraulics disengaged, blades stopped). Sharpen or replace blades. Reduce travel speed. Clear the mowing area of wire and rope before mowing.
9. Hydraulic leak at couplers	Worn coupler seals; improper connection; damaged coupler face	Disconnect and inspect coupler faces for damage and debris. Clean coupler faces and reconnect fully. Replace worn O-rings or coupler seals. Replace damaged couplers.
10. Gear box noise	Low gear oil level; worn gears; misalignment	Check gear box oil level — add 80W-90 gear oil if low. If noise persists with proper oil level, internal gears may be worn — contact Jenkins for gear box service or replacement.
11. Motor stalling in heavy material	Exceeding 6" material rating; approach speed too fast; low hydraulic flow	Do not attempt material over 6" diameter. Reduce forward speed — approach heavy material slowly. Verify skid steer GPM is within range. Allow blades to reach full speed before entering material.
12. Deck dragging on one side	Strap length mismatch; roller wear on one side; debris accumulation	Compare both strap lengths — replace if uneven. Inspect roller for uneven wear or damaged bearing on one side. Clear debris from under the deck.
13. Blades won't disengage	Hydraulic valve issue on skid steer; coupler stuck; pressure trapped in lines	Cycle the skid steer auxiliary hydraulic controls several times. Relieve system pressure. If couplers are stuck, do not force — relieve pressure first, then disconnect. Check the skid steer's auxiliary valve for proper function.
14. Thrown debris distance excessive	Blade too sharp (freshly sharpened); high blade speed; missing or damaged guards	Ensure all deck guards and deflectors are in place. Reduce engine RPM slightly if possible. Increase the safety perimeter. Inspect the mowing area and remove all loose rocks and debris before mowing.
15. Push bar bent or damaged	Impact with fixed object (stump, boulder); overloading the push bar	The push bar is designed for pushing over small saplings and brush — not for prying or ramming fixed objects. Straighten or replace the push bar. Avoid using the push bar on material larger than the attachment can safely handle.
16. Wheel kit tracking issues	Wheel alignment off; bearing wear; axle damage	Check wheel alignment and adjust per installation instructions. Inspect wheel bearings for smooth rotation and excessive play — replace worn bearings. Inspect axle for bending or damage.

Symptom	Possible Cause	Solution
17. Hydraulic hose failure	Chafing against frame; age and UV deterioration; pressure spike; improper routing	Replace the failed hose immediately. Route replacement hose to avoid contact with sharp edges, hot surfaces, and moving parts. Use hose clamps to secure routing. Inspect all remaining hoses for similar wear patterns.
18. Quick-attach mounting loose	Wear plates worn; latch mechanism worn; pin wear	Inspect the quick-attach wear plates on both the skid steer and the brushmower — replace if worn beyond tolerance. Check the latch mechanism for proper engagement. Inspect locking pins for wear and replace if needed.

TIP — When to Call Jenkins

If you cannot resolve an issue using this troubleshooting guide, contact Jenkins Iron and Steel technical support at **(320) 732-2658** or toll-free at **1.855.732.3843**. Have your model size, approximate hours of use, and a description of the issue ready when you call.

Section 10: Replacement Parts Reference

Contact Jenkins Iron and Steel or your authorized dealer to order replacement parts. When ordering, specify your brushmower model size (66", 76", or 88").

Part	Description	Qty Per Unit
Cutting Blade — 24"	Swing-away cutting blade, 24" (66" model only)	2
Cutting Blade — 30"	Swing-away cutting blade, 30" (76" and 88" models)	2
Blade Bolts	High-strength blade mounting bolts with lock nuts	2
Gear Box (Omni)	Omni Gear Box — complete assembly	1
Hydraulic Motor (Eaton)	Eaton Char-Lynn hydraulic motor — complete assembly	1
Hydraulic Hose — Supply	High-pressure hydraulic supply hose with fittings	1

Part	Description	Qty Per Unit
Hydraulic Hose — Return	Hydraulic return hose with fittings	1
Flat-Face Couplers	½" flat-face hydraulic quick-connect couplers (male and female set)	2 sets
Front Straps	13,000 lb rated deck flotation straps	2
Rear Roller	6" ground-tracking roller — complete assembly	1
Roller Bearings	Sealed bearings for rear roller	2
Bypass Manifold	Hydraulic bypass manifold assembly	1
V-Slot Guards	Protective guards for deck V-slots	Varies by model
Grease Fittings	Standard grease zerks (assorted locations)	Varies by model
Quick-Attach Wear Plates	Replacement wear plates for universal quick-attach mounting plate	1 set
Wheel Kit (Optional)	Ground-tracking wheel kit with brackets, axles, and hardware — 245 lbs	1 kit
Push Bar (Optional)	Front-mount push bar with mounting hardware — 88 lbs	1

NOTE — Ordering Parts

For fastest service, call Jenkins Iron and Steel directly at **(320) 732-2658** or toll-free at **1.855.732.3843**. Have your model size and the part description ready when you call. Parts are also available through authorized Jenkins dealers.

Section 11: Warranty and Contact Information

11.1 Warranty Coverage

Jenkins Iron and Steel warrants the Brushmower Attachment against defects in materials and workmanship for a period of **two (2) years** from the date of original purchase. During the warranty

period, Jenkins will repair or replace, at its sole discretion, any component found to be defective in materials or workmanship under normal use and service conditions.

11.2 Warranty Exclusions

This warranty does **not** cover:

- **Normal wear items:** Blades, front straps, rear roller, roller bearings, grease fittings, and other components subject to normal wear and consumption.
- **Misuse or abuse:** Damage resulting from operation beyond the attachment's rated capacity, improper use, negligence, or accident.
- **Modifications:** Damage resulting from unauthorized modifications, alterations, or repairs performed by anyone other than Jenkins Iron and Steel or an authorized Jenkins dealer.
- **Improper maintenance:** Damage resulting from failure to perform maintenance as specified in this manual, including but not limited to failure to grease, failure to maintain hydraulic fluid, and operation with damaged components.
- **Exceeding rated capacity:** Damage resulting from attempting to cut material exceeding the 6" diameter rating or operating outside the 14–25 GPM hydraulic flow range.

11.3 Warranty Claim Process

56. **Contact Jenkins Iron and Steel** by phone at (320) 732-2658 or toll-free at 1.855.732.3843 to report the issue and initiate a warranty claim.
57. **Provide the following information:** Model size (66", 76", or 88"), date of purchase, proof of purchase (receipt or invoice), description of the defect, and photographs of the defective component if possible.
58. **Jenkins will evaluate the claim** and provide instructions for repair or replacement. Jenkins may require the defective component to be returned for inspection.
59. **Approved warranty repairs** will be completed at no charge for parts. Shipping costs for warranty parts may apply depending on location and circumstances.

11.4 Contact Information

Company	Jenkins Iron and Steel
Mailing Address	23023 US 71, Long Prairie, MN 56347
Phone	(320) 732-2658
Toll-Free	1.855.732.3843
Website	www.jenkinsiron.com

"Built Strong. Built to Last. Made in the USA."