OPERATOR'S MANUAL

Brush Crusher™ BC-3000



Specialists in Quality and Time Saving Farm Equipment

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A product of Westendorf Manufacturing Co., Inc.

WESTENDORF MFG. CO., INC. • ONAWA, IA 51040 • 712.423.2762 • www.loaders.com

SECTION 1: INTRODUCTION

Welcome To The Westendorf Family

Your new Westendorf equipment is the highest quality and time saving machinery available. We urge you to exercise sound judgement in the operation and maintenance of this equipment to assure long, trouble-free use and personal safety. It is important to read this manual thoroughly and understand it completely before assembly or operation of this equipment.

This manual should be considered a permanent part of your equipment and be transferred to the new owner if the equipment is sold. It consists of instructions and guides for operating your new equipment. It should be your first, not last resort when dealing with questions.

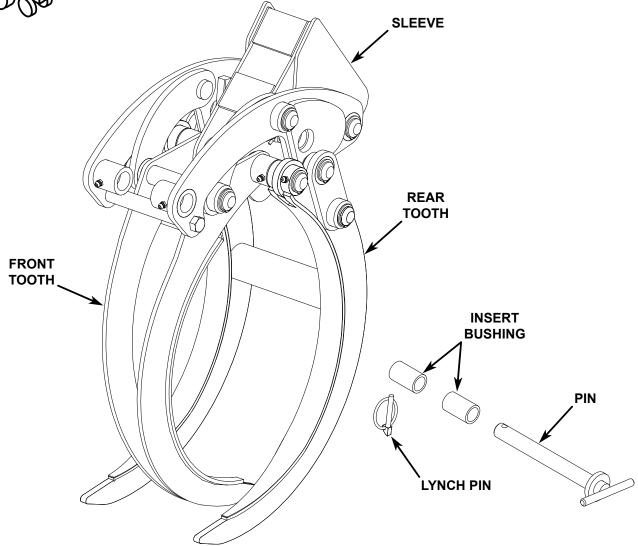
Thank you for your purchase of our product. If there is anything further we can do to assure complete satisfaction, contact your Westendorf dealer. If you still need help, please call on us. We will be glad to assist you in any way we can.

Thank You; Westendorf Manufacturing

Terminology & Safety Decal Locations



Basic terminology that is used throughout this manual has been identified in the illustration below. Components and instructions in this manual are identified as "left" or "right". This is determined as sitting "in the operators seat facing in the normal direction of travel". See figure.



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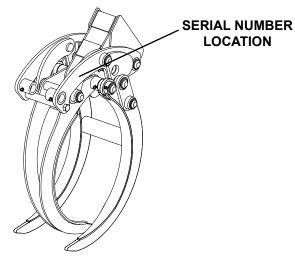
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SECTION 1: WARRANTY & REGISTRATION

Figure illustrates the product serial number location.



The following information is needed for service and parts.

ProductSerial Number:

Model Number: _____

Customer Name: _____

Address:

City: State: Zip:

Date Of Purchase:

Tractor Make And Model:

Dealer Preparation Checklist

Before delivering machine, the dealer must complete the following checklist and sign, along with the customer where noted below. After completion, copy this page and fax to Westendorf Manufacturing Co. Inc. at 712-423-1460. Do not remove this page from manual.

□ Machine is properly assembled.

- □ All safety decals in proper location and legible.
- □ All hardware tightened to specification. See torgue chart in Service and Maintenance section.
- Customer has correct mounting kit for loader and tractor.
- Customer has appropriate attachments for loader operations (buckets for loose materials, bale spear for round bales; forks for palletized material, etc.).
- □ Machine operates properly.
- Operator's manual has been delivered to the owner/ operator and that person has been instructed on the safe and proper use of the loader.

Customer's Signature

Dealer's Signature

AWARNING CRUSHING HAZARD.

The tractor must be equipped with a ROPS or ROPS Cab, and seat belt be used for all loader operations.

Limited Warranty

Westendorf Manufacturing Co., Inc. warrants to the original purchaser only, all new Westendorf equipment to be free from defects in material and workmanship under normal use and service. Westendorf Manufacturing Co., Inc. will repair or replace any defective part manufactured by Westendorf Manufacturing Co., Inc. and returned to Westendorf Manufacturing Co., Inc. at Onawa, Iowa (shipping costs prepaid), within one year from the original date of purchase of the equipment covered by this agreement. Other parts furnished by dealers or other manufacturers for resale or assembly are subject to the warranty of the other manufacturers only. These warranties are valid only if the equipment has been used and maintained in accordance with normal equipment maintenance and service.

The limited warranty of the above paragraph applies to cylinder packings for a period of ninety (90) days.

Westendorf Manufacturing Co., Inc. does not warrant in any matter, including fitness for a particular purpose, parts or equipment purchased from other manufacturers. Although the Westendorf loader is designed to minimize tractor strain, the manufacturer will assume no responsibility for damage to tractors or any other equipment.

The warranties given herein are given in lieu of all other warranties, expressed or implied, including without limitation, the warranty of merchantability and the warranty of suitability for a particular purpose. It is agreed that the buyer's sole remedy shall be limited to repair or replacement of defective parts as described above for any breach of warranties. It is expressly agreed that Westendorf Manufacturing Co., Inc. assumes no liability for any consequential damages arising out of a breach of this contract or any warranties arising therefrom.

Westendorf Manufacturing Co., Inc. will not be liable for commitments or agreements or warranties made by any of its employees, agents or dealers not in accordance with the above warranty.

No warranties, expressed or implied, of fitness or merchantability are made or arise with respect to used equipment.

Basic terminology is used throughout this manual. Figure on preceding page identifies the different parts of the loader and their terminology.

After completion, copy this page and

MAIL: Westendorf Mfg.Co., Inc. PO Box 29 Onawa, IA 51040 FAX: (712) 423-1460

EMAIL: internetsales@westendorfmfg.com

OR Regist

OR Register Online Now www.loaders.com (Click on My Westendorf)

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Address			_	List three valid referrals to receiv
				a FREE gift from Westendorf!
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Phone				Address
Email				CitySTZIP
Dealer's Name				Phone Email
				2) Name
Dealer's City				Address
Date Purchased				CitySTZIP
Product Purchased				Phone
(i.e. loader, attachment, etc.)				Email3) Name
Model#				Address
Serial#				CitySTZIP
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Recognize Safety Information

This is the safety alert symbol. This symbol identifies important safety messages on your machinery and in this manual. When you see this symbol, be alert to the possibility of personal injury.

Carefully follow the recommended precautions and safe operating practices.



Safety Alert Symbol And Signal Words

This manual provides instructions for the operation and care of your Westendorf product. The instructions in this manual must be followed to ensure the safety of persons and satisfactory life of the implement. Safety precautions to protect against injury or property damage must be followed at all times.

You must read, understand, and follow the instructions given by the tractor manufacturer, as well as the instructions in this manual.

The safety information in this manual is denoted by the safety alert symbol:

The level of risk is indicated by the following signal words:

A DANGER

White letters on RED

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

AWARNING Black letters on **ORANGE**

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.



White letters on **BLUE**

NOTICE indicates a property damage message.

Safety Instructions

Carefully read all safety messages in this manual and on equipment safety signs. Keep safety signs in good condition and replace missing or damaged safety signs. New equipment components and repair parts must include the current safety decal. Safety decals are available at no charge from your Westendorf dealer.

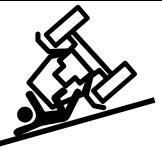
Learn how to properly operate equipment. NEVER allow anyone to operate equipment without proper instruction, while fatigued, or under the influence of alcohol, prescription or non-prescription medication.

Keep equipment in proper working condition. Unauthorized modifications to the equipment may impair the function, or more importantly, have an effect on your safety.

Know the regulations and laws that apply to you and your industry. This manual is not to replace any of them. Additional information may be found on the world wide web at: www.asae.org or www.osha.gov.

If you do not understand any part of this manual, contact your Westendorf dealer.

Tractor Requirements



Narrow front end tractors can be unstable when equipped with a front end loader and can rollover. Use extreme caution when operating a narrow front end tractor equipped with a loader.

Operate on level ground only, keep loads low and avoid sharp turns.

Mount loader on a tractor equipped with wide front end and a ROPS or ROPS Cab.

Tractor seat belt must be used for all loader operations.

Maintenance And Inspection

Inspect for worn or loose parts regularly. Lubricate according to specifications in this manual. Never alter or modify any part of the mounting brackets, loader or attachments. Doing so can result in an unsafe condition and may void the warranty.

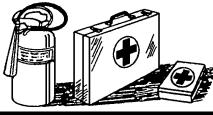
Prepare For Emergencies

Be prepared in case of an emergency.

Keep a fire extinguisher and first aid kit handy.

Keep emergency phone numbers close to your phone.

Know your address so emergency services can locate you if an emergency arises.



Do Not Allow Riders

NEVER lift or carry anyone with the loader, bucket or attachments.

NEVER use the loader or attachment as a work platform.

NEVER allow passengers on the tractor. Be sure that

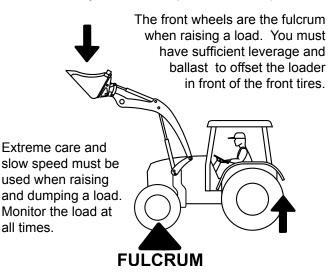
people, livestock and pets are clear of machinery while operating.

DO NOT lift or carry anyone with the loader, bucket or attachment.



High Lift Loaders

High lift loader require tractors with a long wheel base. The rear wheels need to be set out all the way or preferably dual rear wheels and adequate ballast. (See ballast calculations in your loader's operator manual.)



Avoid Rollover

Your tractor may rollover, resulting in death or serious injury. **To avoid rollover:**

- Travel at a slow speed;
- Carry loads close to the ground;
- Avoid sharp turns and sudden movements on slopes;
- Avoid holes, ditches and other obstructions which may cause the tractor to rollover;
- Balance load so weight is evenly distributed and load is stable;
- Be extra careful when operating on slopes and do not operate on excessively steep slopes;
- Do not exceed the load capacity of your equipment;
- Be certain tractor tire spacing and rear ballast are correct before using equipment;
- Approach large round or square bales on a slope with the tractor facing uphill.

Avoid Power Lines & Underground Utilities

Death or serious injury can result if equipment comes near or contacts power lines.



Electrocution can occur without direct contact.

Check clearance before raising equipment.



Have local utilities locate and mark under ground wires, cables, pipelines and other hazards before digging.

DO NOT leave the operator's seat if any part of the equipment contacts electric lines or cables.

Lower Operating Speed

Lower your operating speed while digging, loading or performing heavy operations.

Move at slow speeds on rough or uneven terrain while keeping the load low.

Replace Safety Signs

Replace missing or damaged safety signs.

Safety signs & part no. locations are identified in this manual.

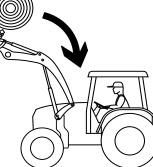
Replacement safety signs are available from your Westendorf dealer at no cost.



Prevent Falling Loads

ALWAYS secure the load at the source.

Round bales, square bales, posts, stones, logs, and other objects can fall or roll from a raised loader or attachment, which may crush the operator or bystanders.



Handle all raised loads with

caution. Keep eyes on load while raising or lowering.

- DO NOT carry items that may shift in the loader bucket or attachment.
- **DO NOT** handle round or square bales unless the loader is equipped with the proper bale handling attachment.
- DO NOT handle bales with the pallet fork attachment.
- **NEVER** travel with a raised load.
- ALWAYS carry loads low and close to the ground.

Transport Loads Safely

Use the proper attachment to lift and carry the load.

Follow the instructions in the appropriate operator's manual for any loader attachments.

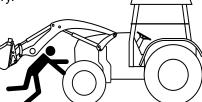
Carry loads low and slightly rolled back.

Travel **SLOW** and avoid slopes.

Raised Loader

A raised loader can fall unexpectedly, resulting in death or serious injury.

NEVER enter the area under a raised loader or attachments.



Lower bucket or attachments to the ground, place tractor transmission in park, shut off engine and remove key before servicing loader or attachments.

Detach loader from tractor to service the tractor.

Avoid High Pressure Fluids

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before connecting or disconnecting hydraulic lines. Tighten all connections before applying pressure.



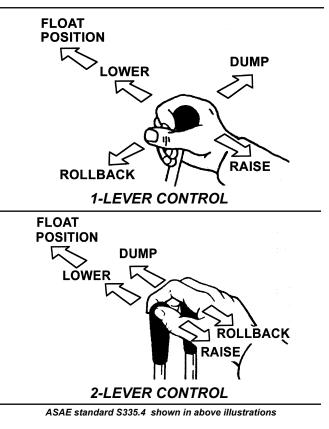
Search for leaks with a piece of cardboard or wood. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or serious infection may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.

DO NOT mount a valve with direct mount joystick inside the tractor cab. Use only a remote cable inside cab.

Hydraulic Control Functions

Check the loader response to the control lever movement. The loader should respond according to the ASAE standards shown. If response is incorrect, check the hydraulic hose connections at the tractor and manifold and correct if necessary. 1-Lever control functions will be shown throughout the manual, refer back to this section for operation regarding the 2-Lever control.



This engineering practice is intended as a guide to determine the minimum ballast and tread settings recommended for the operation of a front loader mounted on a 2WD tractor or a tractor with front assist. These ballast and tread setting recommendations are intended to reduce the risk of vehicle over-turn during typical operation.

BALLAST refers to cast weights or fluid added to rear tractor tires. Hitch ballast refers to a weight or an implement attached to the tractor three-point hitch. GROSS VEHICLE WEIGHT (GVW) is the sum of front and rear axle weight caused by the mass of the tractor, loader, attachment, payload, ballast and hitch ballast.

Determination of Ballast

AWARNING CRUSHING HAZARD.

To prevent personal injury or death from tractor loader roll-over, add the recommended amount of ballast to the tractor. Always use a

ROPS and wear a seatbelt.

The operational ballast criterion has been met when a minimum of 25% of the gross vehicle weight is retained on the rear axle in a static condition on level ground.

•A mass equivalent to the Lift Capacity maximum height should be placed in the loader bucket, with the boom raised until the bucket pivot pin is the same distance from the ground as the boom pivot (farthest forward position). The rear axle weight and gross vehicle weight should be measured on hard level ground (\pm 1°) under these conditions. See Figure 1.

· Ballast must be added to the rear wheels and/or hitch

NOTICE

To avoid tractor damage use hitch ballast. Failure to use ballast can cause the front axle or other tractor components to be overloaded during loader operation.

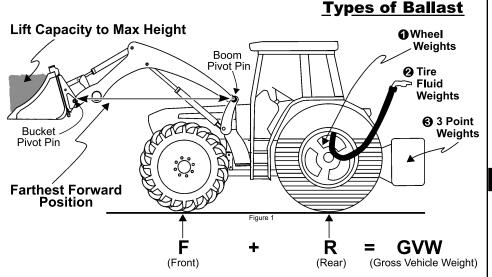
TRACTOR

DAMAGE.

until the rear axle weight on level ground is a minimum of 25% of the gross vehicle weight. Ballast added to the rear hitch should be kept as low as practical. • When a loader is used in a dedicated situation, an operator may determine the appropriate ballast,

based on the maximum load to be carried.

• We recommend ballast, based on the criteria listed in above and knowledge of the physical characteristics of the tractor.



Minimum Tread Settings

The rear wheel width is the most important specification to the balance of your tractor loader operation. Always use approved ROPS and fasten your seat belt.

Minimum tread settings are recommended to provide <u>static</u> stability on a side slope up to 15 degrees under proper rear ballast conditions listed in above. If minimum tread settings are not available in your mounting instructions, minimum rear tread settings should be selected from the following chart:

TRACTOR MA	SS	MINIMUM REAR TREAD SETTING							
Kg	Lbs	mm	in.	A					
<2250	<4950	1575	62.0						
2250-3650	4950-8030	1675	65.9						
>3650	>8030	1825	71.8						

Note: These tread settings are recommended for a standard tractor configuration. A tractor with a high center of gravity or an unusual configuration may require a wider minimum tread setting to achieve the same level of stability.

This information refers to ASAE S301.3, Front-End Agricultural Loader Ratings and ASAE S390.3, Definitions and Classifications of Agricultural Field Equipment, to EN12525:2000 Agricultural machinery – Front Loaders - Safety.

Three Simple Steps

STEP 1: Put weight in the bucket equivalent to the lift capacity of the loader at full lift height. The lift capacity can be found in several locations:

- Operators manual
- Company Literature
- Visit us online at www.loaders.com
- Or Call Us at 712-423-2762
- **STEP 2:** At the scale get the gross <u>vehicle weight</u> (GVW) with the loader raised so the bucket pivot pin is as high as the boom pivot pin. *See Figure 1.* Then weigh the <u>rear axle (R)</u>.

STEP 3: Formulas to figure ballast.

GVW x 25% = Required Rear Axle Weight (RRAW)

< IS LESS THAN > IS GREATER THAN

If R>RRAW = No Ballast Required

If R<RRAW = Ballast Required

Figure Rear Ballast Required (RBR): RRAW - R = RBR RBR x 133% = Ballast Required

Note:Since adding ballast increases the total weight adding the difference will not be enough. You need to add approximately 133% of the difference. Depending on where you add the ballast in respect to the rear axle the amount of weight may vary.

Glossary of Terms

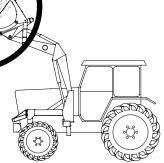
GVW = Gross Vehical Weight F = Front Axle Weight R = Rear Axle Weight RRAW = Required Rear Axle Weight RBR = Rear Ballast Required

< is Less than and > is Greater than

Figure 2 - Rear Tread Setting

Round Bale Safety

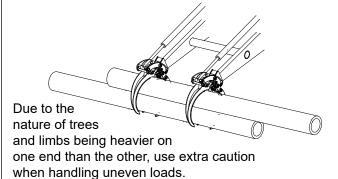
Handle all raised loads with caution. Keep eyes on load while lowering or raising to help prevent personal injury or death caused by falling or crushing loads:



- DO NOT handle round or square bales unless the loader is equipped with an approved bale handling attachment.
- Brush Crusher is NOT designed for handling hay.
- NEVER travel with a raised load.
- ALWAYS carry loads low and drive slow.

Lockout valve detents to prevent automatic loader movement (See tractor's owners manual).

Balance Uneven Loads Properly



- DO center the weight of the uneven load in your attachment.
- AVOID twisting loads.
- ALWAYS carry loads low and drive slow.
- ALWAYS be alert of your surrounding when carrying loads.

Handling Your Brush Crusher™

To help prevent personal injury, do not attempt to pick up the attachment by yourself. Use a mechanical device or team lift when handling the attachment. Use extreme caution when moving and handling this attachement. When not properly secured the teeth assemblies will swing together and could cause personal injury.

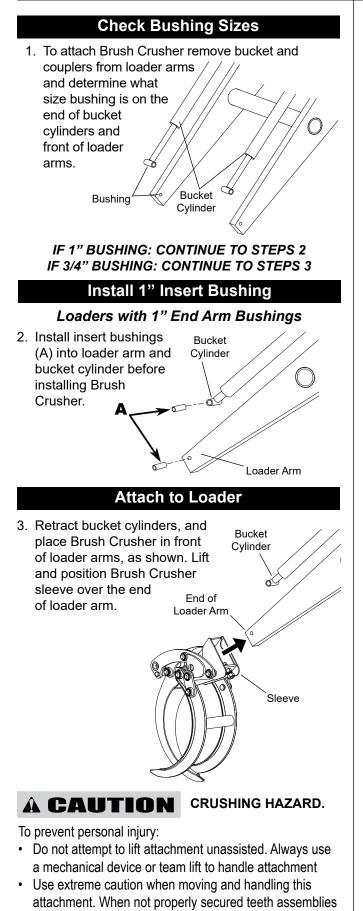
Using Your Brush Crusher™

We have given you the Cautions, Warnings, and Dangers that we could foresee, however due to the flexibility of the product there are uses not thought of yet. Please use common sense and good judgment when operating these units. If it does not appear to be safe, it isn't.

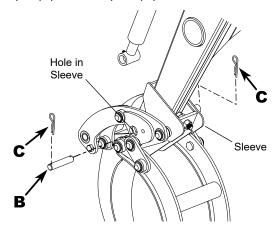
Prior to actual work, operate the unit to get an idea of how it works. New operators should read the operator's manual.



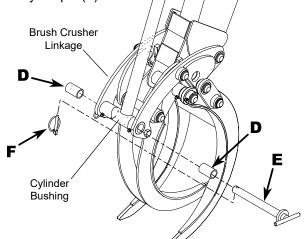
SECTION 3: MOUNTING / DISMOUNTING



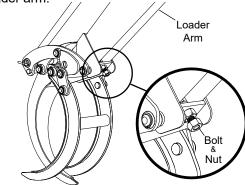
4. Align hole in sleeve with hole in loader arm. Secure with pin (B) and hair pins (C).



5. Extend bucket cylinders, and align linkage with cylinder bushing. Install insert bushings (D), pin (E) and lynch pin (F).



6. Tighten bolt and nut on backside of Brush Crusher against loader arm.



7. Repeat steps on other side.

Detach From Loader

1. To detach your Brush Crusher from your loader, reverse the attaching procedures.

will swing together and could cause personal injury.

SECTION 3: MOUNTING / DISMOUNTING

Approved Attachments

When using your attachment or selecting attachments for your skid steer or front-end loader use the following chart to determine which attachments are approved for your applications

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NOTE When	ordering Brush Crusher indicate if your loads		of Long	100																								-	_						

NOTE: When ordering Brush Crusher indicate Hyper loader is self-leveling. (1) With Snap-Atlach use BC 5050 or 6000, Hpin type use BC-4000

(2) When equipped with Skid Steer Couplere

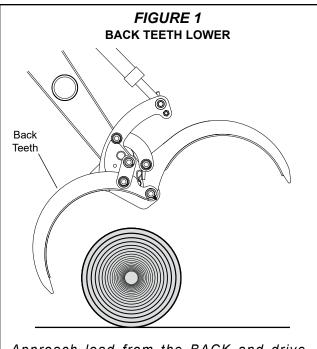
(3) When equipped with HCHC Bucket

The Mechanical Advantage

The Westendorf Brush Crusher is a unique product, take time to understand how it operates. The mechanical advantage allows you to use the bucket cylinders to operate the teeth, saving you the expense of added hydraulics. The Brush Crusher™ is a very powerful tool, please review the following tips when operating this unit.

Approaching the Load

Approaching the load will vary based on the loader and Brush Crusher model you have. Pay particular attention to the teeth when they are in the open position. Whichever set of teeth are closer to the ground determines how to approach the load. Position the claw around the object by lowering your loader arms and driving into (Figure 1) or away from (Figure 2) the object. Draw the object into the claws by closing the teeth and lowering the arms.

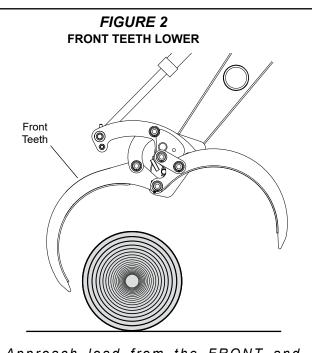


Approach load from the BACK and drive forward or towards the load with the tractor while lowering the arms and closing the teeth.

AWARNING UNEVEN LOADS.

To prevent tractor roll-over or equipment damage:

- DO NOT exceed the capacity which your loader or Brush Crusher™ can handle.
- · Know the limitations of your equipment.
- Center the weight of the load in the attachment.
- Avoid twisting loads.
- See your tractor operator's manual for ballast and tire setting recommendations.



Approach load from the FRONT and drive backwards with the tractor while lowering the arms and closing the teeth.



The teeth will open or close independently of each other based on the amount of hydraulic resistance



At times you may want to put the loader into FLOAT when closing the teeth. This allows the Brush Crusher to adjust or capture the load.

SECTION 3: SERVICE & MAINTENANCE

Perform scheduled maintenance as outlined.

- 1. Lower the bucket or attachment to the ground, or remove on level surface to perform maintenance.
- 2. Turn off tractor engine, remove key, and set tractor parking brake before performing inspections.
- 3. Relieve hydraulic pressure. Use wood or cardboard to inspect hydraulic hoses, lines and fittings for damage, wear and leaks. Repair or replace as necessary.
- 4. Inspect pivot pins for wear. Be certain retaining roll pins are installed on each pin.
- 5. Check all mounting hardware for tightness. Use the torque charts in this section.
- 6. Lubricate Brush Crusher grease fittings as shown.
- 7. While in use, listen for abnormal or unusual sounds that may indicate worn, loose or damaged parts.
- 8. After each use, clean unit and verify all safety decals are legible and not damaged. Replace damaged safety decals.

Torque Chart

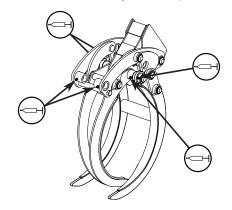
AWARNING CRUSHING HAZARD

To prevent automatic loader movement:

- Operate loader from the operator's seat only.
- Remain at controls until operation cycle is fully complete.
- Lockout valve "detent" when operating loader. See your tractor operator's manual.

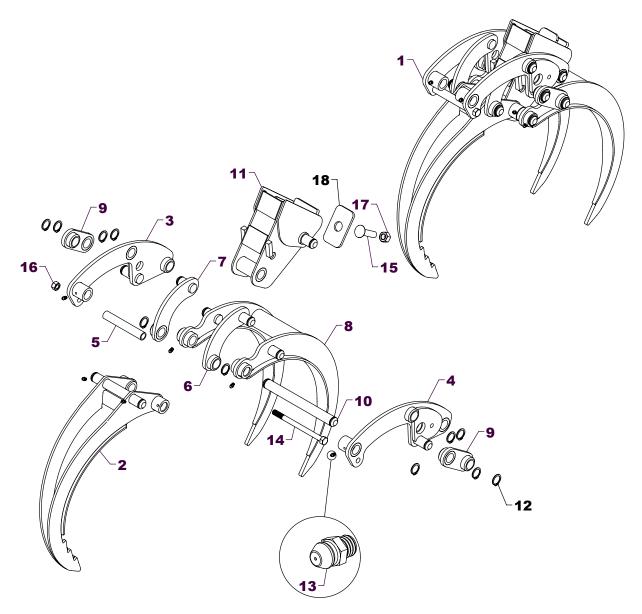
Lubrication

Grease all zerks noted below every 10-12 hours. Failure to grease Brush Crusher may result in premature wear.



SAE Torque-Tension Values

			_		_							
unless a differ	whten hardware to these we rent torque value or tighte disted for a specific application		Gra	Dide 2	Gra	de 5	Gra	ade 8				
Eastoners N	MUST always be replaced		DRY	LUBRICATED	DRY	LUBRICATED	DRY	LUBRICATED				
	te as specified in the mar		Ib-ft (N•m)	Ib-ft (N•m)	lb-ft (N•m)	Ib-ft (N•m)	lb-ft (N•m)	Ib-ft (N•m)				
oarts list.		1/4-28	6 (9)	5 (6)	10 (14)	7 (10)	14 (19)	10 (14)				
		1/4-28	6 (9)	5 (6)		6 (9)	14 (19)	9 (13)				
3. Always use	proper tools for tightenin	g 5/16-24		4 (5) 9 (13)	8 (11)	. ,	27 (36)	20 (27)				
nardware: SA	E for SAE hardware and	5/16-24	13 (18) 11 (15)	9 (13) 8 (11)	19 (26) 17 (23)	14 (19) 13 (18)	27 (36)	18 (25)				
Metric for Met	ric hardware.					· · · · · · · · · · · · · · · · · · ·						
		3/8-24	23 (31)	17 (23)	35 (47)	26 (35)	49 (67)	37 (50)				
	fastener threads are clea	n and 3/8-16	20 (27)	15 (20)	31 (42)	23 (31)	44 (59)	33 (44)				
ou start threa	ad engagement properly.	7/16-20	36 (48)	27 (36)	55 (75)	41 (56)	78 (106)	58 (79)				
		7/16-14	32 (43)	25 (33)	49 (67)	37 (50)	70 (95)	52 (71)				
	alues are given to specifi		55 (75)	41 (56)	85 (115)	64 (86)	120 (163)	90 (122)				
	vare defined by	1/2-13	49 (67)	37 (50)	75 (100)	57 (77)	106 (144)	80 (108)				
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بر «استام ما م	an an an an an an an an Anna Anna Anna Anna Ann	9/16-12	70 (95)	53 (72)	109 (148)	82 (111)	154 (209)	115 (156)				
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and oil coating	e oil, fasteners with phos		97 (132)	73 (99)	150 (204)	113 (153)	212 (287)	159 (216)				
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Drv" means r	lain or zinc plated	3/4-10	172 (233)	129 (175)	269 (365)	201 (273)	376 (510)	282 (382)				
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			Clas	s 8.8	Class	5 10.9						
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M6 M8 M10 M12	DRY lb-ft (N•m) 4.7 (3.5) 11.5 (8.5) 23 (17) 40 (29.5)	LUBRICATED Ib-ft (N•m) 6 (4.5) 14.5 (10.5) 29 (21) 50 (37)	Clas DRY Ib-ft (N•m) 8.9 (6.5) 22 (16) 43 (32) 75 (55)	s 8.8 LUBRICATED lb-ft (N•m) 11.3 (8.5) 27.5 (20) 55 (40) 95 (70)	Class DRY Ib-ft (N•m) 13 (9.5) 32 (23.5) 63 (46) 110 (80)	JUBRICATED lb-ft (N•m) 16.5 (12) 40 (29.5) 80 (59) 140 (105)	DRY 1b-ft (N•m) 15.5 (11.5) 37 (27.5) 75 (55) 130 (95)	LUBRICATED Ib-ft (N•m) 19.5 (14.5) 47 (35) 95 (70) 165 (120)				
M6 M8 M10 M12 M14	DRY b-ft (N•m) 4.7 (3.5) 11.5 (8.5) 23 (17) 40 (29.5) 63 (46)	LUBRICATED Ib-ft (N•m) 6 (4.5) 14.5 (10.5) 29 (21) 50 (37) 80 (59)	Clas DRY lb-ft (N•m) 8.9 (6.5) 22 (16) 43 (32) 75 (55) 120 (88)	s 8.8 LUBRICATED lb-ft (N•m) 11.3 (8.5) 27.5 (20) 55 (40) 95 (70) 150 (110)	Class DRY 1b-ft (N•m) 13 (9.5) 32 (23.5) 63 (46) 110 (80) 175 (130)	JUBRICATED Ib-ft (N-m) 16.5 (12) 40 (29.5) 80 (59) 140 (105) 220 (165)	DRY lb-ft (N•m) 15.5 (11.5) 37 (27.5) 75 (55) 130 (95) 205 (150)	LUBRICATED Ib-ft (N•m) 19.5 (14.5) 47 (35) 95 (70) 165 (120) 260 (190)				
M6 M8 M10 M12 M14 M16	DRY lb-ft (N•m) 4.7 (3.5) 11.5 (8.5) 23 (17) 40 (29.5) 63 (46) 100 (74)	LUBRICATED Ib-ft (N•m) 6 (4.5) 14.5 (10.5) 29 (21) 50 (37) 80 (59) 125 (92)	Class DRY Ib-ft (N•m) 8.9 (6.5) 22 (16) 43 (32) 75 (55) 120 (88) 190 (140)	s 8.8 LUBRICATED lb-ft (N•m) 11.3 (8.5) 27.5 (20) 55 (40) 95 (70) 150 (110) 240 (175)	Class DRY Ib-ft (N•m) 13 (9.5) 32 (23.5) 63 (46) 110 (80) 175 (130) 275 (200)	JUBRICATED Ib-ft (N•m) 16.5 (12) 40 (29.5) 80 (59) 140 (105) 220 (165) 350 (255)	DRY 1b-ft (N•m) 15.5 (11.5) 37 (27.5) 75 (55) 130 (95) 205 (150) 320 (235)	LUBRICATED Ib-ft (N•m) 19.5 (14.5) 47 (35) 95 (70) 165 (120) 260 (190) 400 (300)				
M6 M8 M10 M12 M14 M16 M18	DRY lb-ft (N•m) 4.7 (3.5) 11.5 (8.5) 23 (17) 40 (29.5) 63 (46) 100 (74) 135 (100)	LUBRICATED Ib-ft (N•m) 6 (4.5) 14.5 (10.5) 29 (21) 50 (37) 80 (59) 125 (92) 170 (125)	Class DRY Ib-ft (N•m) 8.9 (6.5) 22 (16) 43 (32) 75 (55) 120 (88) 190 (140) 265 (195)	s 8.8 LUBRICATED Ib-ft (N•m) 11.3 (8.5) 27.5 (20) 55 (40) 95 (70) 150 (110) 240 (175) 330 (245)	Class DRY Ib-ft (N•m) 13 (9.5) 32 (23.5) 63 (46) 110 (80) 175 (130) 275 (200) 375 (275)	JUBRICATED lb-ft (N•m) 16.5 (12) 40 (29.5) 80 (59) 140 (105) 220 (165) 350 (255) 475 (350)	DRY lb-ft (N•m) 15.5 (11.5) 37 (27.5) 75 (55) 130 (95) 205 (150) 320 (235) 440 (325)	LUBRICATED Ib-ft (N•m) 19.5 (14.5) 47 (35) 95 (70) 165 (120) 260 (190) 400 (300) 560 (410)				



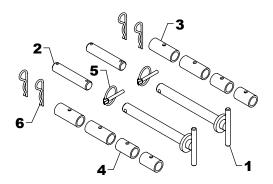
BC-3000 BRUSH CRUSHER™ REPLACEMENT PARTS

				·	1	t	
REF #	PART #	DESCRIPTION	QTY.	REF #	PART #	DESCRIPTION	QTY.
1	BCP-50COM	BRUSH CRUSHER COMPLETE	1	10	BCP-63	PIN	1
2	BCP-50AS	FRONT TOOTH	1	11	BCP-71AS	SLEEVE	1
3	BCP-52AS-R	LINKAGE (RIGHT)	1	12	SR-C08	SNAP RING	12
4	BCP-52AS-L	LINKAGE (LEFT)	1	13	ZER1805	GREASE FITTING	6
5	BCP-56	SPACER	1	14	HHS0813144	1/2" X 9" BOLT	1
6	BCP-57AS - L	LINKAGE (RIGHT)	1	15	CBF1011040	5/8" X 2 1/2" CARRIAGE BOLT	1
7	BCP-57AS - R	LINKAGE (LEFT)	1	16	HFN0813	1/2" NUT	1
8	BCP-59AS	REAR TOOTH	1	17	HFN1011	5/8" NUT	1
9	BCP-62AS	LINKAGE	2	18	BCP-229	BACKING PLATE	1

NOTE: Qty. shows number of parts received if ordered using listed part numbers. BC-3000 is two (BCP-50COM).

WESTENDORFMFG PWB711020

SECTION 5: SERVICE & MAINTENANCE - BC-3000



BCK-019 PIN AND BUSHING KIT

	BCK-019 - 3/4" AND 1" PIN AND BUSHING KIT											
REF #	PART #	DESCRIPTION	QTY.									
1	BCP-64AS	PIN	2									
2	BCP-65	PIN	2									
3	BCP-226	INSERT BUSHING	4									
4	BCP-225	INSERT BUSHING	4									
5	QLP0400028	LYNCH PIN	2									
6	HAR-05	HAIR PIN	4									

BCK-027 PIN KIT

	BCK-027 - 3/4" AND 7/8" PIN KIT											
REF #	PART #	DESCRIPTION	QTY.									
1	BCP-45AS	PIN	2									
2	BCP-65	PIN	2									
3	QLP0400028	LYNCH PIN	2									
4	HAR-05	HAIR PIN	4									

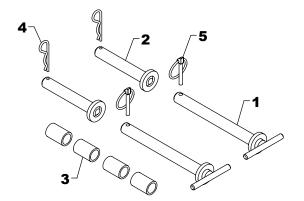
BCK-028 PIN AND BUSHING KIT

BCK-028 - 1/2" PIN AND BUSHING KIT				
REF #	PART #	DESCRIPTION	QTY.	
1	BCP-78AS	PIN	2	
2	BCP-79	PIN	2	
3	BUS-218	BUSHING	4	
4	QLP0400028	LYNCH PIN	2	
5	HAR-05	HAIR PIN	4	

BCK-038 SLEEVE KIT

BCK-038 - 3/4" PIN AND BUSHING KIT					
REF #	PART #	DESCRIPTION	QTY		
1	BCP-345AS	PIN	2		
2	BCP-348AS	PIN	2		
3	BUS-278	BUSHING	4		
4	HAR-05	HAIR PIN	2		
5	QLP0400028	LYNCH PIN	2		

WESTENDORFMFG PWB711020



SECTION 3: SERVICE & MAINTENANCE - BC-3000

Operational Troubleshooting

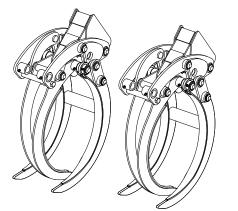
SYMPTOM	POSSIBLE CAUSE	SOLUTION
Teeth operating opposite of each other.	Hydraulic hoses inside the attachment are connected incorrectly. (BC-6000/7000/8000)	Determine correct connections of hydraulic hoses to cylinders.
Coupler will not engage.	Coupler or attachment packed with foreign objects or material.	Check hydraulic couplers for debris and /or remove foreign objects or materials.
Outside tooth assemblies not closing.	Pivot straps are not properly attached to pivot pin. (BC-5000)	Refer to Mounting/Dismounting Section of manual.
Teeth bending.	Load not balanced properly. Not operating attachment correctly.	Refer to Safety and Operation Sections of manual.
Unit seems loose on arm during operation.	Loose carriage bolt. (BC-4000)	Refer to Mounting/Dismounting Section of manual. Check carriage bolt for tightness.

Preparing the Brush Crusher™ for Storage

- Replace damaged or missing parts including pins, hardware, and decals.
- Clean the Brush Crusher thoroughly. Dirt attracts moisture which causes rust.
- Lubricate all grease fittings.
- Paint the loader or attachment when needed.

Storing the Brush Crusher™

• Store attachments inside, if possible, on a solid, level surface in recommended storage postion, as shown. If stored outside, cover the unit with a waterproof material.



• Keep in mind when storing Brush Crusher to place it somewhere out of the way so it does not have to be moved between use.

AWARNING CRUSHING HAZARD.

To prevent personal injury or death:

- To help prevent person injury caused from falling attachments, always detach on a hard, level surface.
- Stored attachments can fall or be knocked over and cause serious injury or death. Securely store attachments and implements to prevent them from falling.
- Keep playing children and bystanders away from storge area.



Exclusive Patented Features:

- Power-Mount[™] Mount & dismount loader hydraulically in One Step without tools or dangerous stands.
- Snap-Attach[™] The original quick change system that automatically locks attachments in place.
- Hydra-Snap[™] a single lever manifold that couples all the hoses in one smooth motion.
- Uni-Fit[™] Brackets- Custom adjust the loader to fit your tractor for low-profile fit and smooth operation.

Your One Stop Shop For Material Handling Solutions

- Loaders
- Buckets
- Bucket Accessories
- Tine Bucket
- Fork Bucket
- Quick-Mount Grab Forks
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