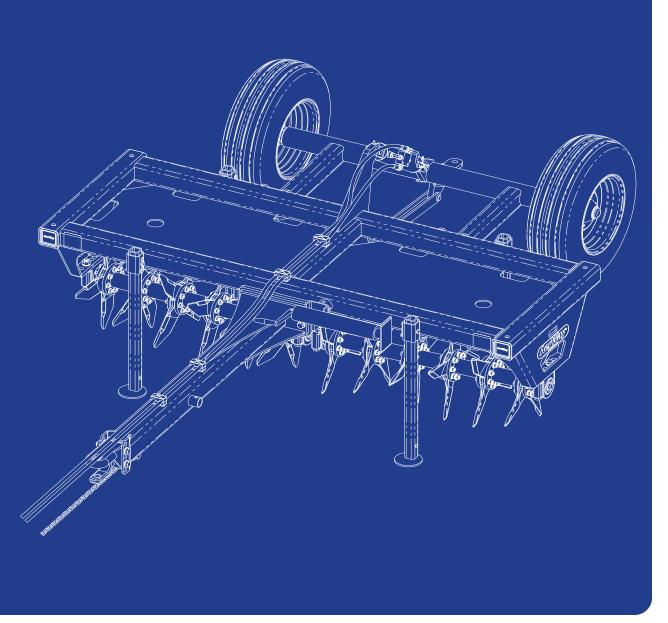


# AWM AerWays

<u>OWNER / OPERATOR</u> MANUAL



XL-AW-A-75058-A Rev B





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For the name of our nearest dealer call 1-800-457-8310 Feel free to visit our website at www.AerWay.com Or e-mail us at AErWay@AErWay.com

Advanced Aeration Systems



### Introduction

Dear Customer: Welcome to the AerWay family.

The AerWay is designed, manufactured and sold by the SAF-HOLLAND Group of Companies. The SAF-HOLLAND Group is a world wide organization with manufacturing facilities in North America, and around the globe.

Farmers on every continent in the world now benefit from the patented AerWay's unique ability to shatter the soil vertically and horizontally as it twists its way through the ground.

The SAF-Holland Group welcomes you to the worldwide AerWay family of satisfied users.

Your new AerWay is designed to meet your agricultural conservation tillage and aeration requirements. Its ease of operation and low maintenance requirements will give you many years of trouble free operation.

Make certain that you <u>read and understand</u> the important instructions for assembly, adjustments, operation and maintenance contained in this manual. If there are any instructions that you do not fully understand, contact either your dealer or SAF-HOLLAND personnel for clarification prior to using the unit.

When in need of replacement parts, please inform your AerWay dealer of the model and serial number of your AerWay. The serial number is stamped on the top surface of the cross tube on the main frame.

Regular preventative maintenance will keep your AerWay in proper operating condition, and provide you with many years of reliable, trouble free service.

Should you require further clarification or assistance, please contact your local AerWay dealer or one of the AerWay information locations listed on the page 19.

#### DEALER RESPONSIBILITY

Before putting a new implement into service, the dealer must review and instruct the customer on all items listed on the Pre-Delivery Inspection and Warranty Registration Form (XL-AW-N-68676-A). This includes instructions on the components and safe operation of the machine. **Both the dealer and owner must sign the form** to certify that the list was completed and to verify the sale and in-service date for the machine. This information is important in the event of a Warranty Claim within the applicable warranty term, where the in-service date and valid proof of purchase information will be required. Compliance to this request will help identify and expedite the claim process.

The Dealer must return a signed copy of the Pre-Delivery Inspection and Warranty Registration Form (XL-AW-N-68676-A) to SAF-HOLLAND to ensure that pre-delivery obligations have been met.



### **Warranty Process**

In the event of a potential warranty claim, be sure to identify and record the AerWay Model Number (example: AWMP-075-AG-4) and Serial Number (example: 92 10 365 0001). The end user or servicing dealer should complete the Customer Service Request form (XL-AW-N-74971-A), shipped with this manual, and Fax or Mail a copy to your nearest SAF-HOLLAND/AerWay location listed on page 19.

SAF-HOLLAND's policy is to review all warranty claims and applicable information prior to the processing of that claim. If parts are required to be returned to a SAF-Holland location for inspection and analysis, a return number will be assigned. This number must be identified on the part(s) and the shipping paper work. Claims will be resolved in a timely manner, once all information is provided and the parts or product have been inspected.

If replacement part(s) or product is required immediately, contact your local AerWay dealer or one of the four AerWay SAF-HOLLAND locations listed on page 2. The part(s) or product will be expedited to the end user and invoiced. If the warranty claim is accepted, the account will be credited accordingly.

	- Holland
MODEL NUMBER AWMP-075-AG-4	SERIAL NUMBER PP YY DDD NNNN
PP - Plant: Norwich,	Ontario, Canada - 92
YY - Year:	2009 - 09
	2010 - 10
DDD - Day of Year:	Jan 15 - 015
	Dec 31 - 365 (non leap year)
NNNN - Sequential number	(Generated each day starting at 0001)

# **Serial Number Logic**



# **AerWay Warranty**

SAF-HOLLAND warranties all AerWay products manufactured by it, when properly applied and installed, to be free from defects in material and workmanship under normal use and service for a period of one (1) year from the date of manufacture.

This warranty is void with respect to any product which has been altered from its manufactured condition, such as intentional modification, accident, corrosion, misuse, failure to provide necessary and reasonable maintenance and is exclusive of normal wear. This warranty does not cover tine wear or breakage due to unfavorable soil conditions.

If any AerWay or AerWay component part is found to have a defect in material or workmanship, SAF-HOLLAND will cover the cost to repair or replace the product or part. SAF-HOLLAND will provide a reasonable allowance for removal, and repair or replacement, and will provide parts or reimbursement at the acquisition cost, provided that this does not exceed the suggested amount.

All product or parts covered by this warranty must be made available to SAF-HOLLAND and/or returned for review and evaluation. Authorization from SAF-HOLLAND must be obtained prior to returning any product or parts, with freight charges prepaid.

SAF-HOLLAND shall not be liable, in any event, for proximate, consequential, special or other damages, including, but not limited to, damages for loss of production, loss of profit, loss of opportunity, or injury to persons or property arising out of any breach of this warranty.

This warranty does not suggest nor imply suitability for any particular application, nor expected life span of the product in any particular way.

THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTY OF MERCHANTABIL-ITY, WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER IMPLIED WARRANTY ARISING BY STATUE, COURSE OF DEALINGS OR USAGE OF TRADE, EXTENDING BEYOND THAT SET FORTH ABOVE.

#### Protect your Investment! Remember to return your Warranty Registration Card.

### Please fill in the important information below:

USER NAME:	
SERIAL NUMBER:	
Model Number:	
DATE OF PURCHASE:	



# **Operator Safety Instructions**

### WORK SAFELY - FOLLOW THESE RULES!

A careful operator is the best insurance against an Accident.
<u>CAUTION</u>: before operating any equipment, read and understand this manual

- 1. Do not wear loose fitting clothing that may catch on moving parts
- 2. Use extreme care when making adjustments
- 3. Always use the proper tools or equipment for the job at hand.
- 4. When working under or around the AerWay, ensure the frame and tines are supported safely and securely.
- 5. Ensure that all tools, parts and maintenance equipment are clear of the AerWay after servicing
- 6. Extreme caution should be exercised when operating close to ditches, fence or on hillsides.



**<u>CAUTION</u>**: Turn off all machinery.

AerWay tines are sharp and, if carelessly handled or improperly used, can cause serious injury or death.

- 7. No riders should be permitted on the tractor. <u>Never allow anyone to ride on the AerWay implement</u> <u>at any time.</u>
- 8. Do not attempt to remove obstructions or clear debris while the AerWay is in motion.
- 9. Hands, feet, clothing and other objects must be kept away from all moving parts.
- 10. Warning and information signs posted provide important information for safe operation; they should not be removed.
- 11. Observe the safety instructions given by the manufacturer of other equipment attached.
- 12. Work only with safe access, e.g. Holders and Hook on Ladders.
- 13. When not in use, the AWM 3-Point model should have the support legs extended down and pinned with the safety clip pins engaged. This will prevent the implement from tipping when detached from the tractor.

#### SAFETY INSTRUCTIONS FOR TRANSPORTATION

- 14. The tractor used, for proper transportation, should be equal in size and horsepower to the unit used for field operations.
- 15. Travel at a reasonable speed. This will allow the operator to maintain complete control of the tractor and implement at all times. Do not exceed 15 mph (24 km/h).
- 16. AerWay transporters are only intended for off road operation.



# **Recommended Maintenance**

### **ROLLER BEARING MAINTENANCE AND LUBRICATION**

Lubricate bearings daily after having used the equipment. In aggressive conditions, you may need to lubricate more frequently. This will purge contaminants out of the bearing and provide for a fresh barrier. Lubricate at the end of the season or when putting the equipment in storage for extended periods of time. This will purge moisture out of the bearing. The fresh grease will act as a corrosion inhibitor thereby preventing rust and the abrasive particles that result and act as a grinding compound in a rotating bearing.

**Note**: In all cases, the effectiveness of the re-lubrication process is increased by having this occur while the bearing is being rotated. This insures that the fresh grease will be evenly distributed throughout the bearing while purging the contaminated grease. Rotation at hand speed is sufficient for this. Re-greasing should continue until fresh grease is visible. Many customers prefer to perform above maintenance at the end of each day.

Wheel Bearings in Lift Assembly should be disassembled and bearings packed with grease once a year. The hubs come with factory installed grease fittings for greasing the hub through out the season. For aggressive conditions grease should be liberally put in the hubs so contamination will not reach the bearings. This should be completed at every usage for aggressive conditions.

#### **PIVOT POINT MAINTENANCE**

Grease all pivot points on the AerWay at the end of each day. Be sure to operate mechanism after greasing to allow grease to reach around the pin area. All pins should be removed once a year and grease applied to pin to prevent premature corrosion. This is a good time to also inspect pins and holes for wear and replace as necessary.

#### TINE MAINTENANCE AND REPLACEMENT INSTRUCTIONS

Inspect tines for signs of excessive wear or breakage prior to operation. Re-torque tine bolts to 90 ft-lbs plus a half turn, after 10 hours of operation from initial start-up. Verify torque on the tine bolts after every 30 hours of operation and adjust if required.

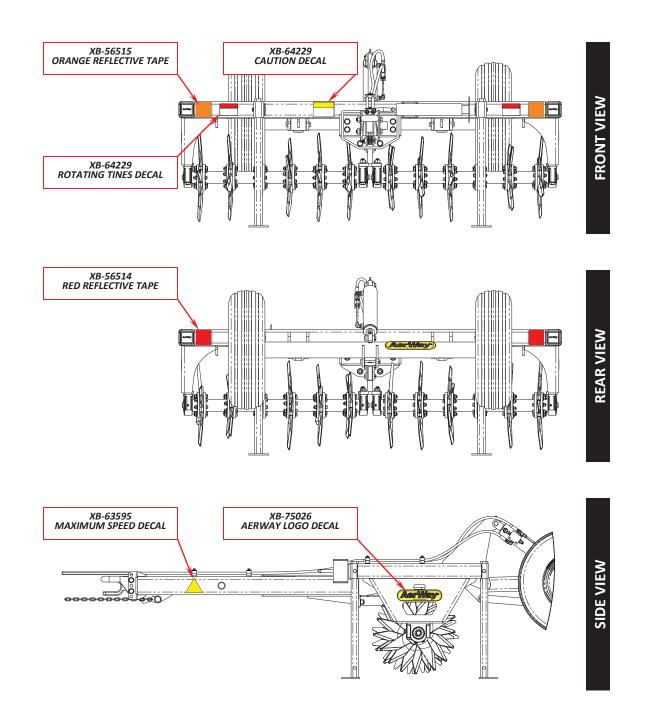
If tines are worn excessively, damaged or broken, replace them as quickly as possible to ensure the proper and efficient operation of the AerWay implement.





# Safety and Warning Decals

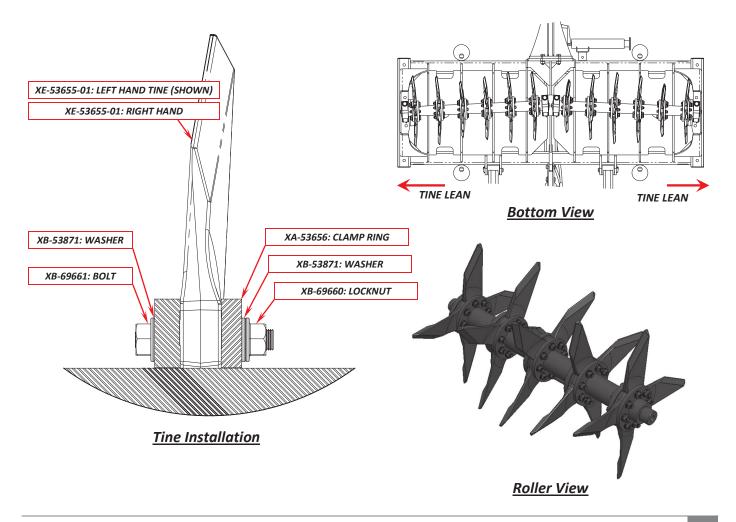
- These decals must be installed and kept visible and legible.
- Failure to install decals or painting over them could result in unsafe operation.





# **Shattertine Replacement (8" AG TINE)**

- Ensure that rings are not bent and bolt holes are not elongated.
- Always clean all mating surfaces free of dirt and contamination.
- 1. Assemble the roller as shown below with the tine between the clamping rings with washers under the bolt head and nut.
- 2. Install the tines in the orientation shown below. Note: **The stamp** "AerWay" on the tine will be pointing **towards the outside** of the AerWay.
- 3. The mounting rings are indexed around the roller shaft so the tines appear in a spiral pattern when viewed from the end of the roller. Be sure to make note of the pattern on each roller before removing the old tines and to install the new tines in that same pattern.
- 4. Torque the locknut to 90 Ft-Lbs then continue turning nut an additional ½ turn.





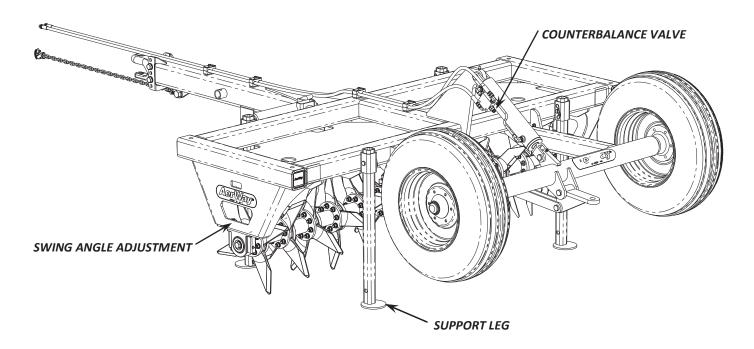
# **Operating Instructions**

- 1. Completely retract support legs after lifting the AerWay using the tractor hydraulic system.
- 2. Lower the AerWay to the ground, with the tines engaged into the ground at working depth; adjust the top link until the AerWay frame is parallel to the ground.
- 3. In the weight tray of the AerWay, add ballast until desired depth of tine penetration into the ground is achieved. The soil type, moisture content and the amount of compaction present will determine the amount of the ballast weight required. Maximum **450** pounds per foot of AerWay width.
- 4. The weight used as ballast must be properly fitted and secured to the frame.
- 5. Excessive stony conditions could result in tine and roller damage. In this case it may be necessary to reduce the ballast.
- 6. Drive the tractor at speeds which are safe (tractor stability & steering ability is maintained) and comfortable.



Excessive tractor speed or radical operation when turning can endanger vehicle operation and operator safety.

- 7. Severely compacted traffic areas may have to be aerated several times.
- 8. For more aggressive cultivation, adjust the rollers to a more aggressive swing angle. There are various positions to choose from to suit your individual requirements.
- 9. When the 3-Point AerWay is not in use, store it using the support legs. Always use the support legs for safe storage.





### **Counterbalance Valve**

A counterbalance valve is used on selected AerWay cylinders to control the flow of oil from the cylinder. The valve locks oil in the cylinder until released by pilot pressure or until the internal pressure exceeds the counterbalance pressure setting. A pressure setting that is above the load holding requirement by only a small amount will result in smooth system operation.

The factory pre set valve is suitable for all applications, however it may be adjusted as follows: Loosening the 9/16 hex jam nut that locks the 1/8 hollow hex adjustment screw. Turning the adjustment screw counter-clockwise (out), which increases the pressure setting.

For wheel kit lift cylinder applications the unit should be loaded to its maximum ballast condition and hitched to the tractor, with hydraulic hoses connected.

The pressure setting is determined by raising the unit, observing if it holds position and increasing the setting until it does.

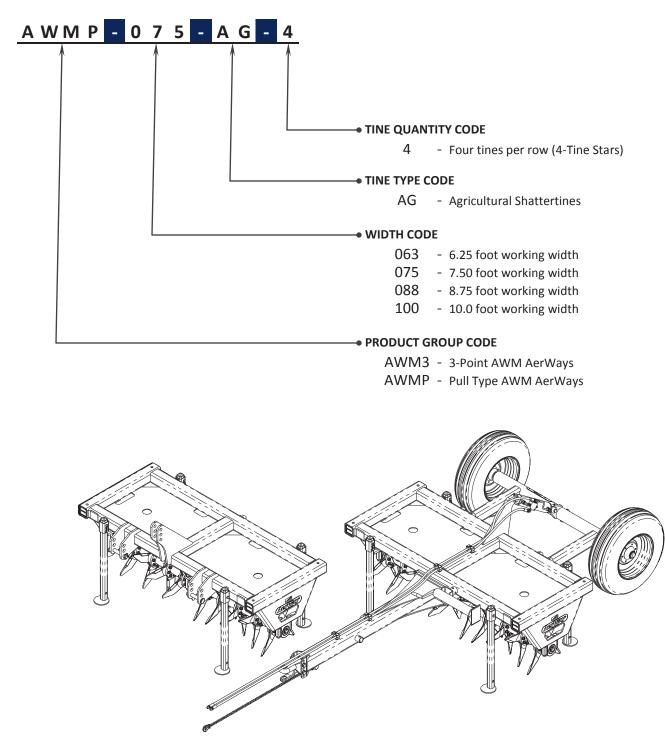
### **Adjustment Procedure:**

- 1. Raise the AerWay with the tractor controls.
- 2. Stop the tractor engine. Place the hydraulic control lever in the 'down' position. Observe if the cylinder holds position.
- 3. If the cylinder does not hold position, then turn the adjustment screw 60° (1/6 turn) counterclockwise and repeat steps 1 & 2.
- 4. If the cylinder holds position, then turn the adjustment screw counter-clockwise and additional 60° (1/6 turn) and secure the jam nut.
- 5. If the adjustment procedure does not hold the cylinder in position then the cartridge may be defective or there may be an internal leak in the cylinder.

9/16" JAM NUT ADJUSTMENT SCREW



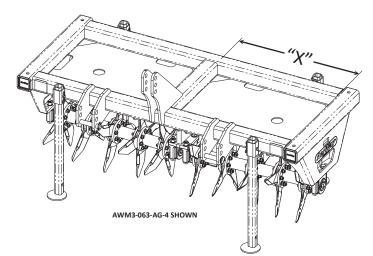
# **Part Number Logic**





# **AWM Concrete Ballasting**

AWM AerWay Ballasting					
PULL TYPE AERWAYS					
MODEL NUMBER	AW-BLK550-02	AW-BLK750-02	TOTAL BLOCK	GROSS	WEIGHT
	QUANTITY	QUANTITY	WEIGHT	WEIGHT	PER FOOT
AWMP-063-AG-4	4 x 550 lbs	-	2200 lbs	4200 lbs	670 lbs
AWMP-075-AG-4	-	4 x 750 lbs	3000 lbs	5150 lbs	685 lbs
AWMP-088-AG-4	6 x 550 lbs	-	3300 lbs	5600 lbs	640 lbs
AWMP-100-AG-4	2 x 550 lbs	4 x 750 lbs	4100 lbs	6550 lbs	655 lbs
3-POINT AERWAYS					
MODEL NUMBER	AW-BLK550-02	AW-BLK750-02	TOTAL BLOCK	GROSS	WEIGHT
	QUANTITY	QUANTITY	WEIGHT	WEIGHT	PER FOOT
AWM3-063-AG-4	4 x 550 lbs	-	2200 lbs	3400 lbs	545 lbs
AWM3-075-AG-4	-	4 x 750 lbs	3000 lbs	4350 lbs	580 lbs
AWM3-088-AG-4	6 x 550 lbs	-	3300 lbs	4800 lbs	550 lbs
AWM3-100-AG-4	2 x 550 lbs	4 x 750 lbs	4100 lbs	5750 lbs	575 lbs



	"X"
AWM*063*	34.50″
AVVIVI 005	Two 550 lb Blocks
AWM*075*	42.00"
AVVIVI 075	Two 750 lb Blocks
4WM*088*	49.50"
400101-088	Three 550 lb Blocks
NA/N 4*100*	57.00"
AWM*100*	Two 750 lb Blocks, One 550 lb Block



**AW-BLK550-02: 550 lb ballast block** 15" Wide · 20" High · 24" Deep

⇒ 20: 24"

**AW-BLK750-02: 750 lb ballast block** 20" Wide · 20" High · 24" Deep



# **AWM Specs**

AWM AerWay Specification	ns				
PULL TYPE AERWAYS					
MODEL NUMBER	WORKING WIDTH	OVERALL WIDTH	TINE QTY	MACHINE WEIGHT	HORSEPOWER REQUIRED*
AWMP-063-AG-4	6.25′	6.75' (81")	40	2000 lbs	38-63
AWMP-075-AG-4	7.5′	8' (96")	48	2150 lbs	45-75
AWMP-088-AG-4	8.75′	9.25' (111")	56	2300 lbs	53-88
AWMP-100-AG-4	10'	10.5' (126")	64	2450 lbs	60-100
3-POINT AERWAYS					
MODEL NUMBER	WORKING	OVERALL	TINE	MACHINE	HORSEPOWER
	WIDTH	WIDTH	QTY	WEIGHT	<b>REQUIRED*</b>
AWM3-063-AG-4	6.25′	6.75' (81")	40	1200 lbs	38-63
AWM3-075-AG-4	7.5′	8' (96")	48	1350 lbs	45-75
AWM3-088-AG-4	8.75′	9.25' (111")	56	1500 lbs	53-88
AWM3-100-AG-4	10'	10.5' (126")	64	1650 lbs	60-100

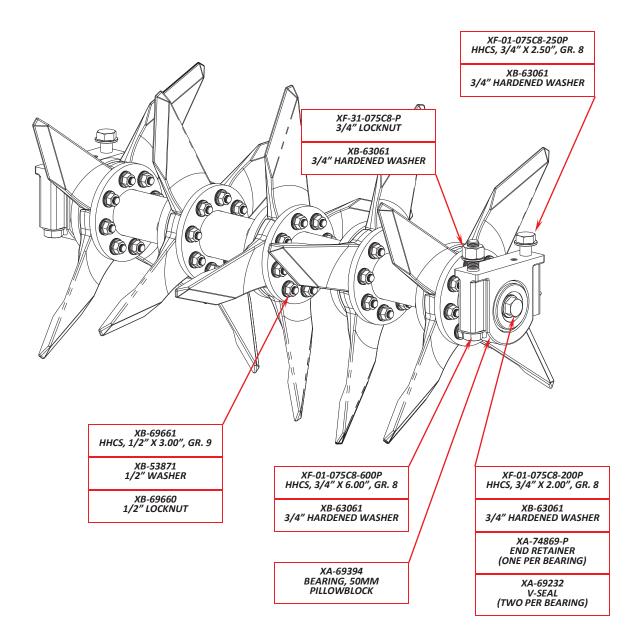
\*HORSEPOWER REQUIREMENTS (6-10 HP/FT) MAY VARY DEPENDING ON FIELD CONDITIONS

AWM AerWay Rollers					
PULL TYPE AERWAYS					
MODEL NUMBER	LH ROLLER ASSEMBLY	RH ROLLER ASSEMBLY	# OF ROWS PER ROLLER	# OF TINES PER ROW	OVERALL ROLLER LENGTH
AWMP-063-AG-4	XA-74998-01	XA-74998-02	5	4	37.5″
AWMP-075-AG-4	XA-74872-01	XA-74872-02	6	4	45″
AWMP-088-AG-4	XA-74999-01	XA-74999-02	7	4	52.5″
AWMP-100-AG-4	XA-74873-01	XA-74873-02	8	4	60"
3-POINT AERWAYS					
MODEL NUMBER	LH ROLLER	RH ROLLER	# OF ROWS	# OF TINES	OVERALL
	ASSEMBLY	ASSEMBLY	PER ROLLER	PER ROW	ROLLER LENGTH
AWM3-063-AG-4	XA-74998-01	XA-74998-02	5	4	37.5″
AWM3-075-AG-4	XA-74872-01	XA-74872-02	6	4	45″
AWM3-088-AG-4	XA-74999-01	XA-74999-02	7	4	52.5″
AWM3-100-AG-4	XA-74873-01	XA-74873-02	8	4	60"



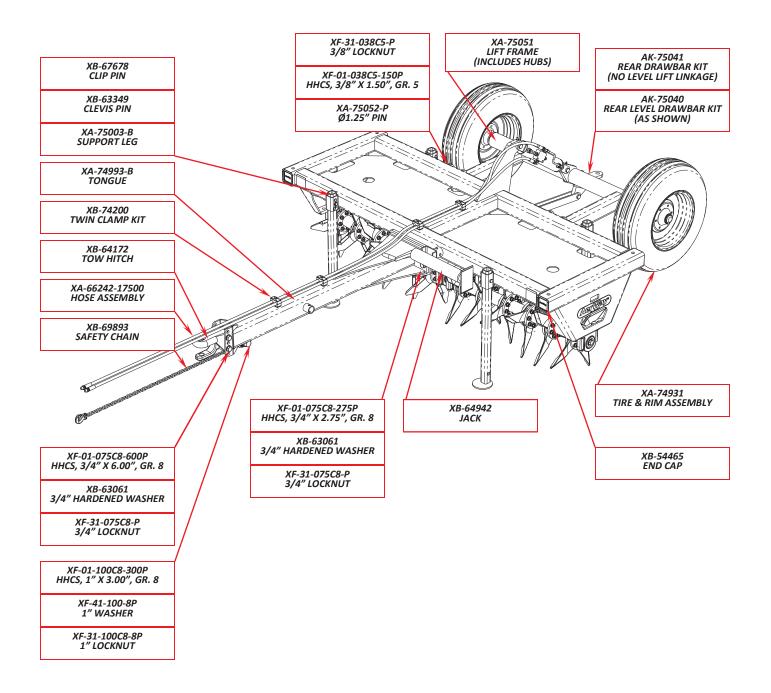


# **Replacement Parts**



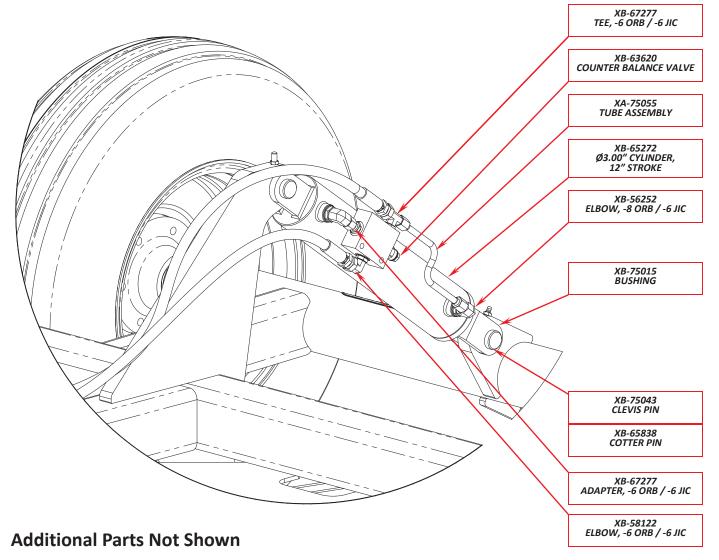


# **Replacement Parts**





# **Replacement Parts**



XA-53308 CAT II PIN (USED ON AWM3 3-POINT HITCH)

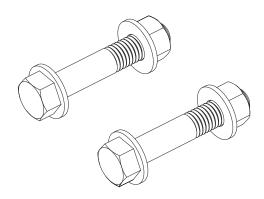
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XB-53987-01 LYNCH PIN (USED WITH XA-53308) XB-75000 RATCHET STRAP (USED FOR SECURING BALLAST)



# **Torque Chart**

SAE GRADE 8				SAE GRADE 8			
COARSE THREAD				FINE THREAD			
	CLAMP				CLAMP		
SIZE	LOAD	PLAIN	PLATED	SIZE	LOAD	PLAIN	PLATED
1/4 - 20 (.250)	2,850	12 ft. lbs.	9 ft. lbs.	1/4 - 28 (.250)	3,263	14 ft. lbs.	10 ft. Ibs.
5/16 - 18 (.3125)	4,725	25 ft. lbs.	18 ft. lbs.	5/16 - 24 (.3125)	5,113	27 ft. lbs.	20 ft. lbs.
3/8 - 16 (.375)	6,975	44 ft. lbs.	33 ft. lbs.	3/8 - 24 (.375)	7,875	49 ft. lbs.	37 ft. lbs.
7/16 - 14 (.4375)	9,600	70 ft. lbs.	52 ft. lbs.	7/16 - 20 (.4375)	10,650	78 ft. lbs.	58 ft. Ibs.
1/2 - 13 (.500)	12,750	106 ft. lbs.	80 ft. lbs.	1/2 - 20 (.500)	14,400	120 ft. lbs.	90 ft. Ibs.
9/16 - 12 (.5625)	16,350	153 ft. lbs.	115 ft. lbs.	9/16 - 18 (.5625)	18,300	172 ft. lbs.	129 ft. lbs.
5/8 - 11 (.625)	20,325	212 ft. lbs.	159 fl. Ibs.	5/8 - 18 (.625)	23,025	240 ft. Ibs.	180 ft. lbs.
3/4 - 10 (.750)	30,075	376 ft. lbs.	282 ft. lbs.	3/4 - 16 (.750)	33,600	420 ft. lbs.	315 ft. lbs.
7/8-9 (.875)	41,550	606 ft. lbs.	454 ft. lbs.	7/8 - 9 (.875)	45,825	668 ft. Ibs.	501 ft. lbs.
1-8 (1.000)	54,525	909 ft. lbs.	682 ft. lbs.	1-12 (1.000)	59,700	995 ft. lbs.	746 ft. lbs.
1-1/8 - 7 (1.125)	68,700	1288 ft. lbs.	966 ft. lbs.	1-14 (1.000)	61,125	1019 ft. lbs.	764 ft. lbs
1-1/4 - 7 (1.250)	87,225	1817 ft. lbs.	1363 ft. lbs.	1-1/8-12 (1.125)	77,025	1444 ft. Ibs.	1083 ft. lbs.
1-3/8 - 6 (1.375)	103,950	2382 ft. lbs.	1787 fl. lbs.	1-1/4 -12 (1.250)	96,600	2012 ft. lbs.	1509 ft. lbs.
1-1/2 - 6 (1.500)	126,450	3161 ft. 1bs.	2371 ft. lbs.	1-3/8-12 (1.375)	118,350	2712 ft. lbs.	2034 ft. lbs.
				1-1/2 -12 (1.500)	142,275	3557 ft. Ibs.	2668 ft. lbs.
SAE GRADE 5				SAE GRADE 5			
SAE GRADE 5 COARSE THREAD				SAE GRADE 5 FINE THREAD			
	CLAMP				CLAMP		
	CLAMP LOAD	PLAIN	PLATED		CLAMP LOAD	PLAIN	PLATED
COARSE THREAD		<b>PLAIN</b> 8 ft. lbs.	<b>PLATED</b> 6 ft. lbs.	FINE THREAD		<b>PLAIN</b> 10 ft. lbs.	<b>PLATED</b> 7 ft. lbs.
COARSE THREAD	LOAD			FINE THREAD	LOAD		
COARSE THREAD SIZE 1/4 - 20 (.250)	<b>LOAD</b> 2,025	8 ft. lbs.	6 ft. lbs.	FINE THREAD SIZE 1/4 - 28 (.250)	<b>LOAD</b> 2,325	10 ft. lbs.	7 ft. lbs.
COARSE THREAD SIZE 1/4 - 20 (.250) 5/16 - 18 (.3125	<b>LOAD</b> 2,025 3,338	8 ft. lbs. 17 ft. lbs.	6 ft. lbs. 13 ft. lbs.	FINE THREAD SIZE 1/4 - 28 (.250) 5/16 - 24 (.3125)	<b>LOAD</b> 2,325 3,675	10 ft. lbs. 19 ft. lbs.	7 ft. lbs. 14 ft. lbs.
COARSE THREAD SIZE 1/4 - 20 (.250) 5/16 - 18 (.3125 3/8 - 16 (.375)	LOAD 2,025 3,338 4,950 6,788 9,075	8 ft. lbs. 17 ft. lbs. 31 ft. lbs.	6 ft. lbs. 13 ft. lbs. 23 ft. lbs.	FINE THREAD SIZE 1/4 - 28 (.250) 5/16 - 24 (.3125) 3/8 - 24 (.375)	<b>LOAD</b> 2,325 3,675 5,588	10 ft. lbs. 19 ft. lbs. 35 ft. lbs.	7 ft. lbs. 14 ft. lbs. 26 ft. lbs.
COARSE THREAD SIZE 1/4 - 20 (.250) 5/16 - 18 (.3125 3/8 - 16 (.375) 7/16 - 14 (.4375) 1/2 - 13 (.500) 9/16 - 12 (.5625)	LOAD 2,025 3,338 4,950 6,788	8 ft. lbs. 17 ft. lbs. 31 ft. lbs. 50 ft. lbs.	6 ft. lbs. 13 ft. lbs. 23 ft. lbs. 37 ft. lbs.	FINE THREAD SIZE 1/4 - 28 (.250) 5/16 - 24 (.3125) 3/8 - 24 (.375) 7/16 - 20 (.4375) 1/2 - 20 (.500) 9/16 - 18 (.5625)	LOAD 2,325 3,675 5,588 7,575	10 ft. lbs. 19 ft. lbs. 35 ft. lbs. 55 ft. lbs.	7 ft. lbs. 14 ft. lbs. 26 ft. lbs. 41 ft. lbs.
SIZE           1/4 - 20         (.250)           5/16 - 18         (.3125)           3/8 - 16         (.375)           7/16 - 14         (.4375)           1/2 - 13         (.500)	LOAD 2,025 3,338 4,950 6,788 9,075	8 ft. lbs. 17 ft. lbs. 31 ft. lbs. 50 ft. lbs. 76 ft. lbs.	6 ft. lbs. 13 ft. lbs. 23 ft. lbs. 37 ft. lbs. 57 ft. lbs.	FINE THREAD SIZE 1/4 - 28 (.250) 5/16 - 24 (.3125) 3/8 - 24 (.375) 7/16 - 20 (.4375) 1/2 - 20 (.500)	LOAD 2,325 3,675 5,588 7,575 10,200	10 ft. lbs. 19 ft. lbs. 35 ft. lbs. 55 ft. lbs. 85 ft. lbs.	7 ft. lbs. 14 ft. lbs. 26 ft. lbs. 41 ft. lbs. 64 ft. lbs
COARSE THREAD SIZE 1/4 - 20 (.250) 5/16 - 18 (.3125 3/8 - 16 (.375) 7/16 - 14 (.4375) 1/2 - 13 (.500) 9/16 - 12 (.5625)	LOAD 2,025 3,338 4,950 6,788 9,075 11,625	8 ft. lbs. 17 ft. lbs. 31 ft. lbs. 50 ft. lbs. 76 ft. lbs. 109 ft. lbs.	6 ft. lbs. 13 ft. lbs. 23 ft. lbs. 37 ft. lbs. 57 ft. lbs. 82 ft. lbs.	FINE THREAD SIZE 1/4 - 28 (.250) 5/16 - 24 (.3125) 3/8 - 24 (.375) 7/16 - 20 (.4375) 1/2 - 20 (.500) 9/16 - 18 (.5625)	LOAD 2,325 3,675 5,588 7,575 10,200 12,975	10 ft. lbs. 19 ft. lbs. 35 ft. lbs. 55 ft. lbs. 85 ft. lbs. 122 ft. lbs.	7 ft. lbs. 14 ft. lbs. 26 ft. lbs. 41 ft. lbs. 64 ft. lbs 91 ft. lbs.
COARSE THREAD           SIZE           1/4 - 20         (.250)           5/16 - 18         (.3125)           3/8 - 16         (.375)           7/16 - 14         (.4375)           1/2 - 13         (.500)           9/16 - 12         (.5625)           5/8 - 11         (.625)           3/4 - 10         (-750)           7/8 - 9         (.875)	LOAD 2,025 3,338 4,950 6,788 9,075 11,625 14,400 21,300 29,475	8 ft. lbs. 17 ft. lbs. 31 ft. lbs. 50 ft. lbs. 76 ft. lbs. 109 ft. lbs. 150 ft. lbs. 266 ft. lbs. 430 ft. lbs.	6 ft. lbs. 13 ft. lbs. 23 ft. lbs. 37 ft. lbs. 57 ft. lbs. 82 ft. lbs. 112 ft. lbs. 200 ft. lbs. 322 ft. lbs.	FINE THREAD           SIZE           1/4 - 28         (.250)           5/16 - 24         (.3125)           3/8 - 24         (.375)           7/16 - 20         (.4375)           1/2 - 20         (.500)           9/16 - 18         (.5625)           5/8 - 18         (.625)           3/4 - 16         (.750)           7/8 - 14         (.875)	LOAD 2,325 3,675 5,588 7,575 10,200 12,975 16,350 23,775 32,475	10 ft. lbs. 19 ft. lbs. 35 ft. lbs. 55 ft. lbs. 85 ft. lbs. 122 ft. lbs. 170 ft. lbs. 297 ft. lbs. 474 ft. lbs.	7 ft. lbs. 14 ft. lbs. 26 ft. lbs. 41 ft. lbs. 64 ft. lbs 91 ft. lbs. 128 ft. lbs. 223 ft. lbs. 355 ft. lbs.
COARSE THREAD           SIZE           1/4 - 20         (.250)           5/16 - 18         (.3125)           3/8 - 16         (.375)           7/16 - 14         (.4375)           1/2 - 13         (.500)           9/16 - 12         (.5625)           5/8 - 11         (.625)           3/4 - 10         (-750)           7/8 - 9         (.875)           1- 8         (1.000)	LOAD 2,025 3,338 4,950 6,788 9,075 11,625 14,400 21,300 29,475 38,625	8 ft. lbs. 17 ft. lbs. 31 ft. lbs. 50 ft. lbs. 76 ft. lbs. 109 ft. lbs. 150 ft. lbs. 266 ft. lbs. 430 ft. lbs. 644 ft. lbs.	6 ft. lbs. 13 ft. lbs. 23 ft. lbs. 37 ft. lbs. 57 ft. lbs. 82 ft. lbs. 112 ft. lbs. 200 ft. lbs. 322 ft. lbs. 483 ft. lbs.	FINE THREAD           SIZE           1/4 - 28         (.250)           5/16 - 24         (.3125)           3/8 - 24         (.375)           7/16 - 20         (.4375)           1/2 - 20         (.500)           9/16 - 18         (.5625)           5/8 - 18         (.625)           3/4 - 16         (.750)           7/8 - 14         (.875)           1- 12         (1.000)	LOAD 2,325 3,675 5,588 7,575 10,200 12,975 16,350 23,775 32,475 42,300	10 ft. lbs. 19 ft. lbs. 35 ft. lbs. 55 ft. lbs. 85 ft. lbs. 122 ft. lbs. 170 ft. lbs. 297 ft. lbs. 474 ft. lbs. 70 ft. lbs.	7 ft. lbs. 14 ft. lbs. 26 ft. lbs. 41 ft. lbs. 64 ft. lbs 91 ft. lbs. 128 ft. lbs. 223 ft. lbs. 355 ft. lbs. 529 ft. lbs.
COARSE THREAD           SIZE           1/4 - 20         (.250)           5/16 - 18         (.3125)           3/8 - 16         (.375)           7/16 - 14         (.4375)           1/2 - 13         (.500)           9/16 - 12         (.5625)           5/8 - 11         (.625)           3/4 - 10         (-750)           7/8 - 9         (.875)           1- 8         (1.000)           1-1/8- 7         (1.125)	LOAD 2,025 3,338 4,950 6,788 9,075 11,625 14,400 21,300 29,475 38,625 42,375	8 ft. lbs. 17 ft. lbs. 31 ft. lbs. 50 ft. lbs. 76 ft. lbs. 109 ft. lbs. 150 ft. lbs. 266 ft. lbs. 430 ft. lbs. 644 ft. lbs. 794 ft. lbs.	6 ft. lbs. 13 ft. lbs. 23 ft. lbs. 37 ft. lbs. 57 ft. lbs. 82 ft. lbs. 112 ft. lbs. 200 ft. lbs. 322 ft. lbs. 483 ft. lbs. 596 ft. lbs.	FINE THREAD           SIZE           1/4 - 28         (.250)           5/16 - 24         (.3125)           3/8 - 24         (.375)           7/16 - 20         (.4375)           1/2 - 20         (.500)           9/16 - 18         (.5625)           5/8 - 18         (.625)           3/4 - 16         (.750)           7/8 - 14         (.875)           1- 12         (1.000)           1- 14         (1.000)	LOAD 2,325 3,675 5,588 7,575 10,200 12,975 16,350 23,775 32,475 42,300 32,275	10 ft. lbs. 19 ft. lbs. 35 ft. lbs. 55 ft. lbs. 122 ft. lbs. 170 ft. lbs. 297 ft. lbs. 474 ft. lbs. 70 ft. lbs. 721 ft. lbs.	7 ft. lbs. 14 ft. lbs. 26 ft. lbs. 41 ft. lbs. 64 ft. lbs 91 ft. lbs. 128 ft. lbs. 223 ft. lbs. 355 ft. lbs. 529 ft. lbs. 541 ft. lbs.
SIZE           1/4 - 20         (.250)           5/16 - 18         (.3125)           3/8 - 16         (.375)           7/16 - 14         (.4375)           1/2 - 13         (.500)           9/16 - 12         (.5625)           5/8 - 11         (.625)           3/4 - 10         (-750)           7/8 - 9         (.875)           1- 8         (1.000)           1-1/8 - 7         (1.125)           1-1/4 - 7         (1.250)	LOAD 2,025 3,338 4,950 6,788 9,075 11,625 14,400 21,300 29,475 38,625 42,375 53,775	8 ft. lbs. 17 ft. lbs. 31 ft. lbs. 50 ft. lbs. 76 ft. lbs. 109 ft. lbs. 150 ft. lbs. 266 ft. lbs. 430 ft. lbs. 644 ft. lbs. 794 ft. lbs. 1120 ft. lbs.	6 ft. lbs. 13 ft. lbs. 23 ft. lbs. 37 ft. lbs. 57 ft. lbs. 82 ft. lbs. 112 ft. lbs. 200 ft. lbs. 322 ft. lbs. 483 ft. lbs. 596 ft. lbs. 840 ft. lbs.	FINE THREADSIZE $1/4 - 28$ (.250) $5/16 - 24$ (.3125) $3/8 - 24$ (.375) $7/16 - 20$ (.4375) $1/2 - 20$ (.500) $9/16 - 18$ (.5625) $5/8 - 18$ (.625) $3/4 - 16$ (.750) $7/8 - 14$ (.875) $1 - 12$ (1.000) $1 - 1/8 - 12$ (1.125)	LOAD 2,325 3,675 5,588 7,575 10,200 12,975 16,350 23,775 32,475 42,300 32,275 47,475	10 ft. lbs. 19 ft. lbs. 35 ft. lbs. 55 ft. lbs. 122 ft. lbs. 170 ft. lbs. 297 ft. lbs. 474 ft. lbs. 70 ft. lbs. 721 ft. lbs. 890 ft. lbs.	7 ft. lbs. 14 ft. lbs. 26 ft. lbs. 41 ft. lbs. 64 ft. lbs 91 ft. lbs. 128 ft. lbs. 223 ft. lbs. 355 ft. lbs. 529 ft. lbs. 541 ft. lbs. 668 ft. lbs.
SIZE           1/4 - 20         (.250)           5/16 - 18         (.3125)           3/8 - 16         (.375)           7/16 - 14         (.4375)           1/2 - 13         (.500)           9/16 - 12         (.5625)           5/8 - 11         (.625)           3/4 - 10         (-750)           7/8 - 9         (.875)           1- 8         (1.000)           1-1/8- 7         (1.125)           1-1/4 - 7         (1.250)           1-3/8 - 6         (1.375)	LOAD 2,025 3,338 4,950 6,788 9,075 11,625 14,400 21,300 29,475 38,625 42,375 53,775 64,125	8 ft. lbs. 17 ft. lbs. 31 ft. lbs. 50 ft. lbs. 76 ft. lbs. 109 ft. lbs. 150 ft. lbs. 266 ft. lbs. 430 ft. lbs. 644 ft. lbs. 794 ft. lbs. 1120 ft. lbs. 1470 ft. lbs.	6 ft. lbs. 13 ft. lbs. 23 ft. lbs. 37 ft. lbs. 57 ft. lbs. 82 ft. lbs. 112 ft. lbs. 200 ft. lbs. 322 ft. lbs. 483 ft. lbs. 596 ft. lbs. 840 ft. lbs. 1102 ft. lbs.	FINE THREADSIZE $1/4 - 28$ (.250) $5/16 - 24$ (.3125) $3/8 - 24$ (.375) $7/16 - 20$ (.4375) $1/2 - 20$ (.500) $9/16 - 18$ (.5625) $5/8 - 18$ (.625) $3/4 - 16$ (.750) $7/8 - 14$ (.875) $1 - 12$ (1.000) $1 - 14$ (1.000) $1 - 1/8 - 12$ (1.125) $1 - 1/4 - 12$ (1.250)	LOAD 2,325 3,675 5,588 7,575 10,200 12,975 16,350 23,775 32,475 42,300 32,275 47,475 59,550	10 ft. lbs. 19 ft. lbs. 35 ft. lbs. 55 ft. lbs. 122 ft. lbs. 170 ft. lbs. 297 ft. lbs. 474 ft. lbs. 70 ft. lbs. 721 ft. lbs. 890 ft. lbs. 1241 ft. lbs.	7 ft. lbs. 14 ft. lbs. 26 ft. lbs. 41 ft. lbs. 64 ft. lbs 91 ft. lbs. 128 ft. lbs. 223 ft. lbs. 355 ft. lbs. 529 ft. lbs. 541 ft. lbs. 668 ft. lbs. 930 ft. lbs.
SIZE           1/4 - 20         (.250)           5/16 - 18         (.3125)           3/8 - 16         (.375)           7/16 - 14         (.4375)           1/2 - 13         (.500)           9/16 - 12         (.5625)           5/8 - 11         (.625)           3/4 - 10         (-750)           7/8 - 9         (.875)           1- 8         (1.000)           1-1/8 - 7         (1.125)           1-1/4 - 7         (1.250)	LOAD 2,025 3,338 4,950 6,788 9,075 11,625 14,400 21,300 29,475 38,625 42,375 53,775	8 ft. lbs. 17 ft. lbs. 31 ft. lbs. 50 ft. lbs. 76 ft. lbs. 109 ft. lbs. 150 ft. lbs. 266 ft. lbs. 430 ft. lbs. 644 ft. lbs. 794 ft. lbs. 1120 ft. lbs.	6 ft. lbs. 13 ft. lbs. 23 ft. lbs. 37 ft. lbs. 57 ft. lbs. 82 ft. lbs. 112 ft. lbs. 200 ft. lbs. 322 ft. lbs. 483 ft. lbs. 596 ft. lbs. 840 ft. lbs.	FINE THREADSIZE $1/4 - 28$ (.250) $5/16 - 24$ (.3125) $3/8 - 24$ (.375) $7/16 - 20$ (.4375) $1/2 - 20$ (.500) $9/16 - 18$ (.5625) $5/8 - 18$ (.625) $3/4 - 16$ (.750) $7/8 - 14$ (.875) $1 - 12$ (1.000) $1 - 1/8 - 12$ (1.125)	LOAD 2,325 3,675 5,588 7,575 10,200 12,975 16,350 23,775 32,475 42,300 32,275 47,475	10 ft. lbs. 19 ft. lbs. 35 ft. lbs. 55 ft. lbs. 122 ft. lbs. 170 ft. lbs. 297 ft. lbs. 474 ft. lbs. 70 ft. lbs. 721 ft. lbs. 890 ft. lbs.	7 ft. lbs. 14 ft. lbs. 26 ft. lbs. 41 ft. lbs. 64 ft. lbs 91 ft. lbs. 128 ft. lbs. 223 ft. lbs. 355 ft. lbs. 529 ft. lbs. 541 ft. lbs. 668 ft. lbs.





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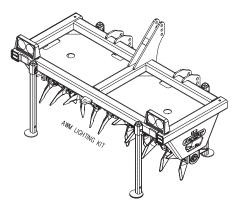
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