NEW LEADER®

MODEL MULTAPPLIER

UNIT SERIAL NUMBER _____

MANUAL NUMBER: 306996-C

EFFECTIVE 03/2014

Hi-Way® NEW LEADER®

Highway Equipment Company

Building the best since 1939.

1330 76TH AVE SW
CEDAR RAPIDS, IA 52404-7052
PHONE (319) 363-8281 | FAX (319) 286-3350
www.highwayequipment.com

TABLE OF CONTENTS

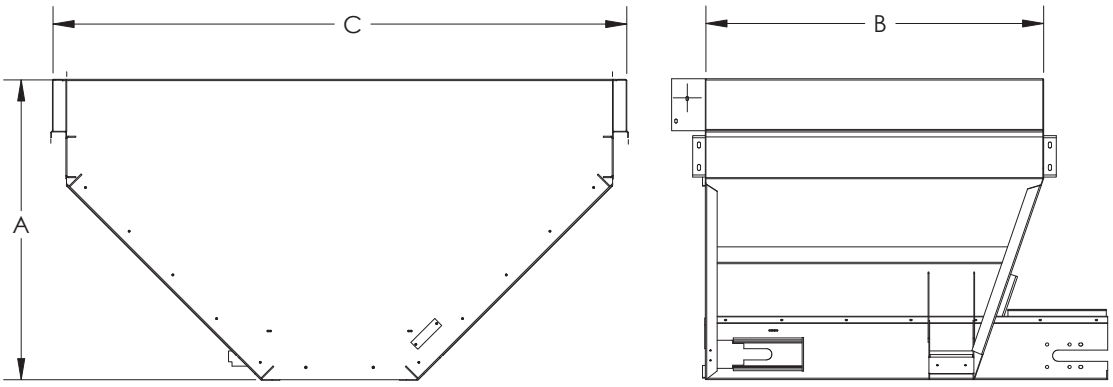
INSERT CURRENT NEW LEADER WARRANTY

GENERAL DESCRIPTION

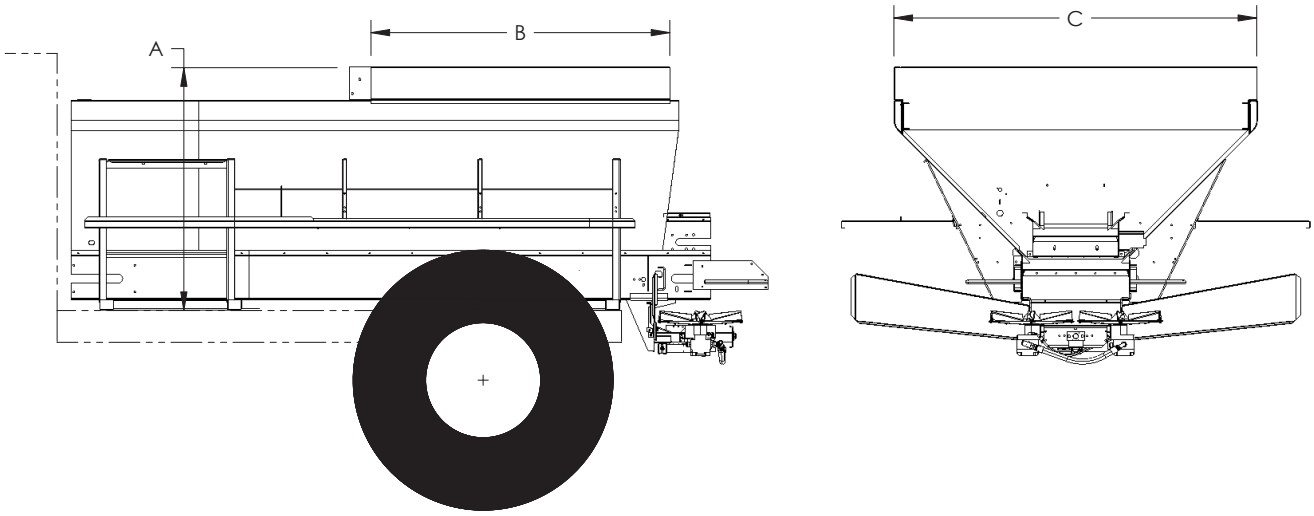
The Model MULTAPPLIER is a 304 stainless steel hopper style spreader to be inserted into the L4000G4, L3220G4, and L3030G4 or compatible spreader to create a 2 bin hopper.

The MULTAPPLIER when installed allows for two materials to be spread simultaneously. It features a 24-inch (60.96 cm) belt-over-chain type conveyor having parallel strands of pintle type (#4) chain joined by cross bars every other link. The direct driven conveyor is also controlled independently enabling the distribution of material at variable rates through the adjustable gate at the rear of the hopper body. The hillside divider improves material placement on the spinner for a more effective spread pattern.

This product is intended for commercial use only.



MULTAPPLIER



MULTAPPLIER shown installed in main hopper.

MULTAPPLIER				
Length B	Height A	Width C	Struck Capacity Cu Yd (Cu M) Cu Ft	Weight Lbs (Kg)
5' (1.52m)	54" (137cm)	102" (259.1cm)	4.25 (3.25) 115	1000 (454.5)
7' (2.13m)			5.95 (4.55) 161	1200 (545.5)

HYDRAULIC REQUIREMENTS

NOTICE!	Excessive engine speed will cause more hydraulic oil to be pumped than is required to drive spinners and conveyor may result in overheating the oil. Too low an engine speed may not provide sufficient hydraulic oil flow to maintain spread width or to keep the conveyor running at the speed required to deliver the desired quantity of material being spread.

Relief Pressure: 1500 PSI (103.4 bar)
Pump Flow 9 GPM (34.1 LPM)

HECO Supplied Pump:

Heco Pump Part Number - tandem rear section: (must have compatible front pump part # 304424)	304425
Pump CID:	.93
Theoretical Pump 100% Efficiency	9 GPM (34.1 LPM)
Pump RPM:	2075

NOTE: New Leader spreaders are equipped with hydraulics that supply the additional flow needed to run the MULTAPPLIER.

TRUCK REQUIREMENTS

Before installing the MULTAPPLIER spreader, the following major questions must be considered:

1. Does the CA (Cab to Axle) dimension of the truck permit the addition of the MULTAPPLIER?
2. Is the truck's GAWR (Gross Axle Weight Rating) and the GVWR (Gross Vehicle Weight Rating) adequate to carry the fully loaded spreaders?

Refer to your New Leader dealer to find the GAWR and GVWR for most trucks, and how to calculate the weight distribution on each axle and total loaded vehicle weight.

ELECTRICAL CONNECTIONS

Connect all electrical control circuits. The supply conductor should be connected directly to the battery. All wiring should be approved automotive insulated wire, supported adequately with insulating ties or straps, and located where it will not interfere with any control or access. Make sure wiring does not contact any moving parts or sharp edge and is kept away from hydraulic lines and heated parts.

CHECKING INSTALLATION

See *Initial Start-Up* procedure.

FEEDGATE ADJUSTMENT

WARNING	Stay out of the spreader. If it's necessary to enter the spreader, return to the shop, empty body, turn off all power, set vehicle brakes, lock engine starting switch and remove keys before entering. Tag all controls to prohibit operation. Tags should be placed, and later removed, only by person working in the body.

Adjust the MULTAPPLIER's front feedgate prior to installation.

To adjust main bin's feedgate opening when a MULTAPPLIER will be installed: position front feedgates on MULTAPPLIER as necessary to achieve a 1-1/2 inch (3.81 cm), 2 inch (5.08 cm) (Figure 1) or 3 inch (7.62 cm) (Figure 2) opening. Position both feedgates with short side down for a 3" (7.62 cm) opening. NOTE: Both feedgates are installed for shipping.

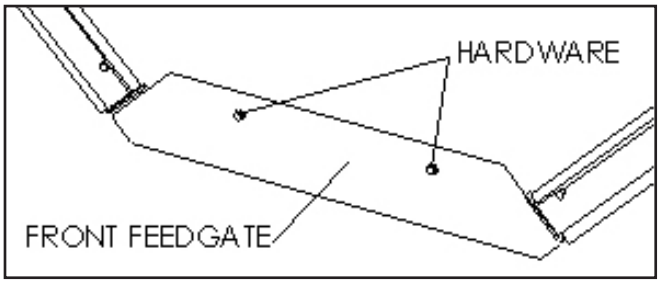


Figure 1 - 1 1/2" (3.81 cm) or 2" (5.08 cm) Opening

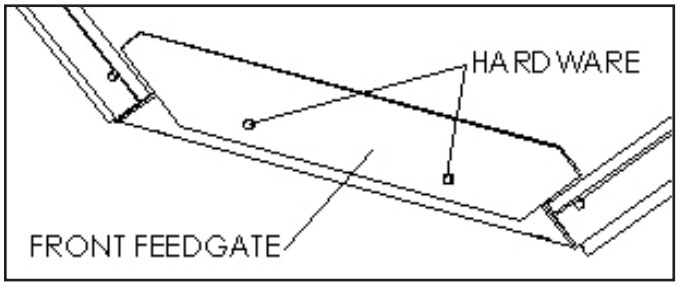


Figure 2 - 3" (7.62 cm) Opening

INSERT INSTALLATION

WARNING	Use only lifting devices that meet or exceed OSHA standard 1910.184. Never exceed work load limits or lift equipment over people. Empty spreader before lifting. Loads may shift or fall if improperly supported, causing injury.

Before installing the MULTAPPLIER: Remove the Inverted V and Hillside Flow Divider from the spreader, if so equipped. Adjust the MULTAPPLIER's front feedgate to the proper opening. Support endgate by attaching a hoist to the lift hooks. Remove hardware from both sides of the endgate and hoist from the spreader.

Always inspect unit lift points for signs of wear, cracking, corrosion, gouges, alterations, or distortion.

Always use a sling, spreader bar, or lifting bar that attaches to the lifting points with a minimum of 60 degrees from horizontal. It is preferable to use an "H" style lifting bar that keeps the attaching chains in a near vertical orientation.

Parts Needed:

Description	Qty
MULTAPPLIER	1
Capscrew - 1/2 x 1 1/4 Grade 8	8
Flat Washer - 1/2 Grade 8	16
Lock Washer - 1/2 Grade 8	8
Hex Nut - 1/2 Grade 8	8

1. Make sure rubber sealer hardware is loose. If not, loosen.

Figure 3A

Figure 3B

2. To install MULTAPPLIER:
   a. Figure 3A - Hoist and slide MULTAPPLIER into position between main bin's side sheets.
   b. Figure 3B - Align MULTAPPLIER's and main bin's front and rear mount brackets.
   c. Make sure MULTAPPLIER is resting on inside of main bin, and not resting on tops of side sheets.
   d. Release tension on hoist but do not remove.

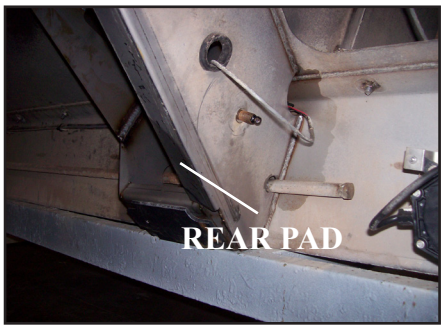


Figure 4A (uninstalled)

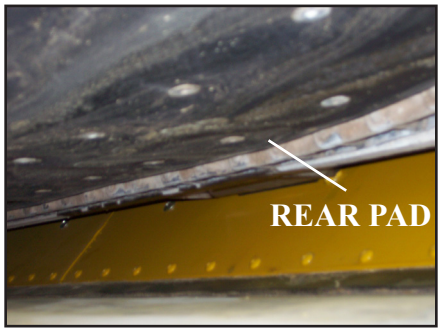


Figure 4B (shown installed)
View from rear of unit.

3. Figures 4A-4B - Visually make sure MULTAPPLIER is centered from side to side in main bin and rear pads are resting on main bin.

Figure 5

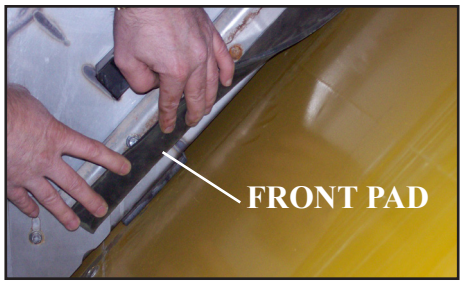


Figure 6

4. Figure 5 - There must be contact between rear pads and main unit. Check for contact by trying to slide paper between pads and main bin. If no contact, adjust MULTAPPLIER.

5. Figure 6 - Inside main unit, locate front pads by lifting rubber sealers on front endgate.

Figure 7A

Figure 7B

6. Figures 7A-7B - There must be contact between front pads and main unit. Check for contact by trying to slide paper between pads and main bin. If no contact, adjust MULTAPPLIER.
   NOTE: Pry MULTAPPLIER at mount brackets if necessary.

Figure 8

Figure 9

7. Figure 8 - Once both front pads are in contact, insert hardware in front mount brackets' lower holes. Shim between main bin and MULTAPPLIER brackets if distance is larger than 1/8" (.32cm). Tighten hardware per torque recommendations.

8. Make sure feedgate is level.

NOTICE!	Leakage of material may occur if the sealer belts are not set properly on the front of the MULTAPPLIER. Highway Equipment Company is not liable for lost material due to improperly installed sealer belts.

9. Figure 9 - Make sure there is a complete seal covering the gap between the MULTAPPLIER and the main bin's side sheets. Tighten all hardware on rubber sealers at front of MULTAPPLIER.

10. Make sure rear pads are still in place against main bin. Install hardware in lower holes of rear mount brackets. Shim between main bin and MULTAPPLIER brackets if distance is larger than 1/8" (.32cm). Tighten hardware per torque recommendations in this manual.

11. Make sure MULTAPPLIER's side sheets are not resting on top of main bin's side sheets.

12. Install hardware in all four mount brackets' upper holes. Tighten hardware per torque recommendations.

13. Remove hoist.

14. Inspect unit for foreign debris around conveyor area.

HYDRAULICS

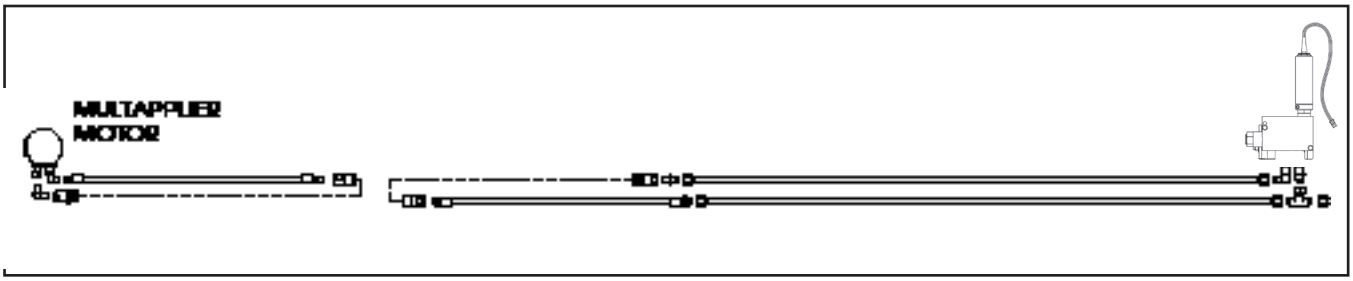


Figure 10 – Detach Quick Disconnects

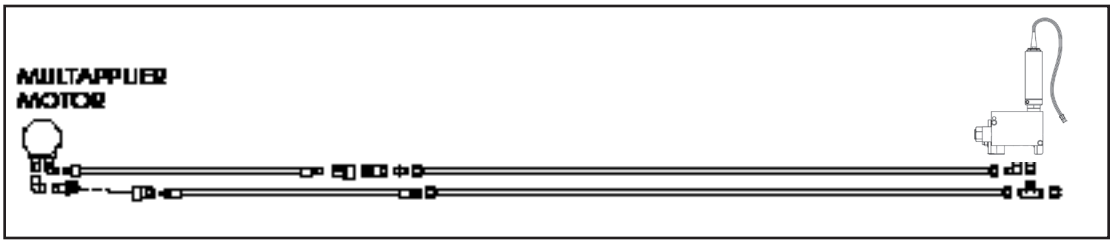


Figure 11 – MULTAPPLIER Operation

Detach quick disconnects on the main bin and the MULTAPPLIER as shown in Figure 10. Attach MULTAPPLIER disconnects to main bin's disconnects as shown in Figure 11. Plug in rate sensor.

HILLSIDE DIVIDER

NOTICE!	Highway Equipment Company will not be liable for misapplied material due to an improperly adjusted divider, spreader or both.

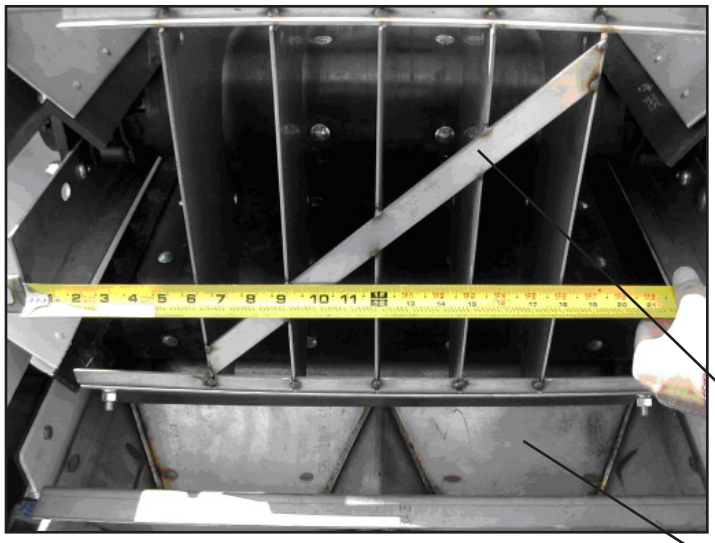


Figure 12 - Hillside Divider

Remove hardware from rear two holes of chain shield on both sides and set aside. Install MULTAPPLIER Hillside Divider over conveyors and attach using chain shield hardware. Adjust Hillside Divider so that the middle divider is centered over both conveyors and the spinner Material Divider as shown in Figure 12. Tighten hardware to recommended torque.

DUAL CONVEYOR COVER

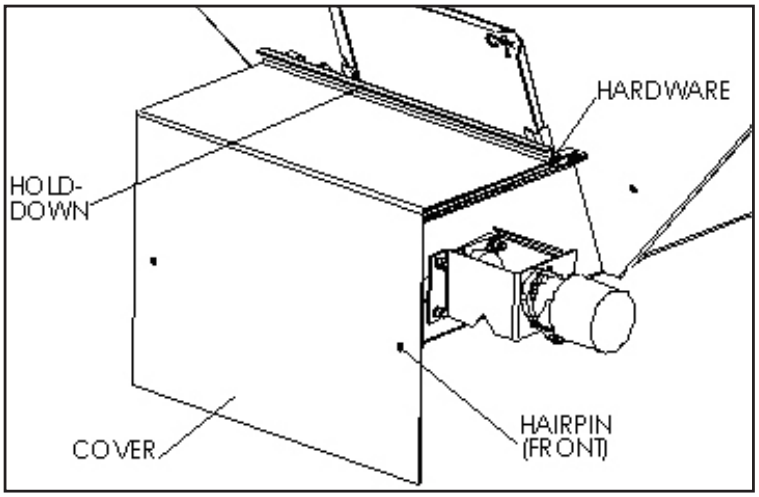


Figure 13 - Dual Conveyor Cover

Parts Needed:

Description	Qty
Cover	1
Hold-down	1
Hair Pin	2
Capscrew - 3/8 x 1	6
Flat Washer - 3/8	6
Lock Washer - 3/8	6
Hex Nut - 3/8	8

Remove rear plate of material divider. Place Cover on MULTAPPLIER sills as shown in Figure 13 and insert hair pins through cover pins. Position Hold-down over cover and attach with hardware. Reinstall rear plate of material divider.

MULTAPPLIER REMOVAL / ENDGATE INSTALLATION

Remove MULTAPPLIER and reinstall endgate, Inverted V, single conveyor Hillside Divider, etc. by following installation instructions in reverse order. Make sure the MULTAPPLIER hydraulics and electrical are disconnected from the main bin before removal. See "Inverted V" in the *New Leader Installation Instructions* manual.

WARNING Stand clear of moving machinery.

NOTE: Do not load spreader with material.

1. Check entire unit to make sure all fasteners are in place and properly tightened per *Standard Torques National Coarse (NC) Capscrews* section in this manual.
2. Make sure no other persons are in vicinity of truck or spreader.
3. Make sure no loose parts are in unit or on conveyor or spinner.
4. Set feedgate so it is completely clear of conveyor.
5. Refer to the control's operation manual for the correct setting to operate the conveyor. Run conveyor until it's operating smoothly.

WARNING DO NOT check leaks with hands while system is operating as high pressure oil leaks can be dangerous! If skin is pierced with hydraulic fluid at high pressure seek immediate medical attention as fluid injected into the skin could cause gangrene if left untreated. Relieve pressure before disconnecting hydraulic lines or working on system. Make sure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system. Wear protective gloves and safety glasses or goggles when working with hydraulic system.

WARNING DO NOT check for leaks adjacent to moving parts while system is operating as there may be danger of entanglement!

6. Check all connections in hydraulic system to make sure there are no leaks.
   Unit is now ready for field testing.

1. Read *General Operating Procedures* section of spreader manual.
2. Make sure unit has been properly serviced and is in good operating condition. Field test unit prior to first use, prior to each spreading season's use and following overhaul or repair work, to verify that all components and systems are functioning properly. See *Field Testing* section in spreader manual.
3. Set rear feedgate opening to obtain yield desired.

   To adjust MULTAPPLIER rear feedgate: pull hairpins and move feedgate. Measure from conveyor to bottom of feedgate to determine opening—holes are at 1/2-inch (1.27cm) intervals. Replace hairpins.

   To adjust MULTAPPLIERR front feedgate see "Front Feedgate Adjustment" under *Installation Instructions.*

4. Fill hoppers with materials to be spread.
5. Drive to location where spreading is to be done.
6. Set controller program to desired values for each hopper in use.
7. Engage pump drive PTO.

CAUTION Drive only at speeds which permit good control of vehicle!

8. Drive at speeds that allow engine to turn at proper RPM.

   If necessary, shift transmission into lower gears so engine speed can be maintained to allow adequate hydraulic oil delivery from pump.

*Visit **www.newleadervip.com** for interactive tools to calculate yield, proper feedgate opening, conveyor revolutions per minute, and mph to maximize the performance of your spreader.

PREVENTATIVE MAINTENANCE PAYS!

The handling and spreading of commercial fertilizers is a most severe operation with respect to metal corrosion. Establish a frequent, periodic preventative maintenance program to prevent rapid damage to spreading equipment. Proper cleaning, lubrication and maintenance will give you longer life, more satisfactory service and more economical use of your equipment.

WARNING	Shut off all power and allow all moving parts to come to rest before performing any maintenance operation.

CONVEYOR CHAIN

WARNING	Stay out of the spreader. If it's necessary to enter the spreader, return to the shop, empty body, turn off all power, set vehicle brakes, lock engine starting switch and remove keys before entering. Tag all controls to prohibit operation. Tags should be placed, and later removed, only by person working in the body.

Hose down unit and remove any material build-up on sprockets and under chain.

NOTICE!	The conveyor will move away from the bottom panel if material accumulates under the conveyor or on the sprockets. The more material that accumulates, the closer the chain will come to the chain shields. If the conveyor should catch a chain shield, it could permanently damage the conveyor, the chain shields or the unit. Do not remove material while conveyor or spinner is running!

Lubrication

Make sure unit is clean and completely dry. Lubricate conveyor chain bi-weekly and at end of each season with Fluid Film™ or equivalent. Shut down spinner and run conveyor at 20 RPM for two full revolutions to lubricate chain. After each unit washing, allow to dry, then lubricate.

Tension

Proper chain tension is also a factor in chain and sprocket life (Figure 14). Measure from rear of unit forward to achieve proper chain tension. MULTAPPLIER conveyor touches bottom of sill only at center when properly tensioned. Make sure chain is tensioned equally on both sides. This adjustment is made on each side of the unit with the extended idler take-up at the rear.

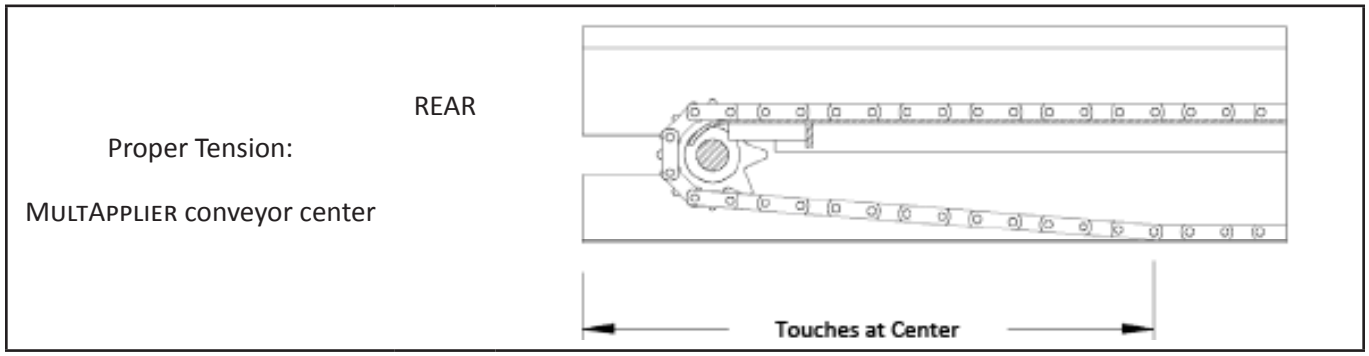


Figure 14 - Chain Tension

Conveyor chains that are too tight will tend to stretch, causing excess sprocket wear and eventually breakage. Excess slack presents the possibility of chain catching on sub-frame parts. Bent or distorted chain bars will cause damage as well. Straighten or replace bent or distorted chain bars immediately.

CONVEYOR BELT MAINTENANCE

Standard belt for the #4 chain is moderate oil resistant that is impervious to moisture, weathering, or normal action which can be used with chemical impregnated fertilizer or oil based additives. Inspect belt fastener occasionally for wear or "raveling" of belt grip area.

LUBRICATION OF BEARINGS

Grease in a bearing acts to prevent excessive wear of parts, protects ball races and balls from corrosion, and aids in preventing excessive heat within the bearing. It is very important the grease maintain its proper consistency during operation. It must not be fluid and it must not channel.

Make sure all fittings are thoroughly cleaned before grease is injected. Points to be lubricated by means of a grease gun have standard grease fittings.

Lubricate bearings by pumping grease slowly until it forms a slight bead around the seals. This bead indicates adequate lubrication and also provides additional protection against the entrance of dirt.

CLEAN UP

NOTICE!	High pressure wash can inject water and/or fertilizer into control components, causing damage. Use caution when cleaning these areas.

Thoroughly wash unit every two to three days during the operating season to maintain minimal maintenance operation. Hose unit down under pressure to free all sticky and frozen material.

It is important the unit be thoroughly cleaned at the end of each operating season. All lubrication and maintenance instructions should be closely followed. Repaint worn spots to prevent formation of rust.

FASTENERS

Tighten all screws fasteners to recommended torque's after first week of operation and annually thereafter. If loose fasteners are found at anytime, tighten to recommended torque. Replace any lost or damaged fasteners or other parts immediately. Check MULTAPPLIER's mounting hardware every week.

	**WARNING**	Shut off all power and allow all moving parts to come to rest before performing any maintenance operation.

The spreader should be regularly lubricated with the lubricants recommended in this manual in accordance with the following chart:

CONVEYOR	PLACES	METHOD	FREQUENCY
Dragshaft Bearings	2	Grease Gun	Weekly
Idler Shaft Bearings	2	Grease Gun	Weekly
Take-Up Screws	2	Hand Grease	Weekly
Chain	2 Strands	Fluid Film™	Bi-Weekly

NOTE: Unusual conditions, such as excessive dust, temperature extremes or excessive moisture may require more frequent lubrication of specific parts.

NOTICE!	The lubricant distributor and/or supplier is to be held responsible for results obtained from their products. Procure lubricants from distributors and/or suppliers of unquestionable integrity, supplying known and tested products. Do not jeopardize your equipment with inferior lubricants. No specific brands of oil are recommended. Use only products qualified under the following oil viscosity specifications and classification recommended by reputable oil companies.

GREASE GUN LUBRICANT

Use a waterproof ball and roller bearing lithium base lubricant with a minimum melting point of 300°F (148.8° C). This lubricant should have a viscosity which assures easy handling in the pressure gun at prevailing atmospheric temperatures. The grease should conform to NLGI No. 2 consistency.

CHAIN OIL MIXTURE

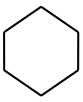
Use Fluid Film™ or equivalent.

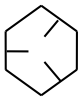
- Symptom: Spinners turn but conveyor and/or meter wheel does not run in manual mode. See reasons 1, 2, 3, 4, 9 & 10.
- Symptom: Console in operation mode, but the conveyor and/or meter wheel does not move when the machine moves. See reasons 1, 2, 3, 4, 9 & 10.
- Symptom: Conveyor and/or meter wheel does not run with cab control "On", PTO engaged and vehicle driving forward. See reasons 7, 9 & 10.
- Symptom: Conveyor and/or meter wheel runs when control switch in cab is in "Off" position. See reasons 5, 6, 8, & 10.
- Symptom: Conveyor starts to run when PTO is engaged. See reasons 5, 7, 9, 10 & 12.
- Symptom: Peak conveyor revolutions cannot be achieved. See reasons 10 & 11.
- Symptom: Controller application or programming. Refer to the control manual's *Troubleshooting* section.
- Symptom: Undesirable spread pattern. See *G4 Spread Pattern* section at the back of the spreader manual.

Reason:	Correction:
1. MULTAPPLIER conveyor relief valve open to return line.	Using relief valve testing adapter and flow meter, test valve for opening pressure. If not 1500 PSI (103.4 b), replace relief valve.
2. Jammed or frozen conveyor.	Free up conveyor.
3. Jammed or frozen conveyor/meter wheel hydraulic motor.	Replace motor.
4. Conveyor hydraulic motor shaft key sheared.	Replace key.
5. Excessive oil is being pumped.	1. PTO percentage too high. Change PTO to smaller percentage or use smaller pump. 2. Pump is too large. Do not exceed 9 GPM (34 LPM) pumping rate. Change to smaller pump or use smaller percentage PTO. 3. Pressure drop in control valve is sufficient to run lightly loaded conveyor motor. Shut off pump drive by disengaging PTO shaft.
6. Conveyor valve not set properly.	Consult New Leader dealer for adjustments.
7. Defective radar.	Check speed on console. Repair or replace radar as required.
8. Control processor's power is in "Off" position.	Turn on control processor.
9. Involves the controller.	Refer to control manual.
10. MULTAPPLIER hydraulic circuit is not routed correctly.	Route hydraulic circuit per instructions specific to spreader.
11. MULTAPPLIER runs by using excess hydraulic flow from spreader.	Increase feedgate opening or slow driving speed.

STANDARD TORQUES NATIONAL COARSE (NC) CAPSCREWS

CAP SCREW GRADE IDENTIFICATION - MARKINGS ON HEAD

SAE GRADE 2  NO MARKINGS

SAE GRADE 5  THREE MARKS - 120 DEGREES APART

SAE GRADE 8  SIX MARKS - 60 DEGREES APART

USE GRADE 2 TORQUES FOR STAINLESS STEEL FASTENERS AND CARRIAGE BOLTS.

CAP SCREW SIZE	TORQUE - FOOT-POUNDS					
	GRADE 2		GRADE 5		GRADE 8	
	DRY	LUBE	DRY	LUBE	DRY	LUBE
1/4”	5	4	8	6	12	9
5/16”	11	8	17	13	25	18
3/8”	20	15	30	23	45	35
7/16”	30	24	50	35	70	55
1/2”	50	35	75	55	110	80
9/16”	65	50	110	80	150	110
5/8”	90	70	150	110	220	170
3/4”	100	120	260	200	380	280
7/8”	140	110	400	300	600	460
1”	220	160	580	440	900	650

Hi-Way NEW LEADER
Highway Equipment Company
Building the best since 1939.

Order from the **AUTHORIZED DEALER** in your area.

1. Always give the pertinent model and serial number.
2. Give part name, part number and the quantity required.
3. Give the correct address to where the parts are to be shipped, and the carrier if there is a preference.

Unless claims for shortages or errors are made immediately upon receipt of goods they will not be considered. Any part returns should be directed through the dealer from which they were purchased.

When broken goods are received, a full description of the damage should be made by the carrier agent on the freight bill. If this description is insisted upon, full damage can always be collected from the transportation company.

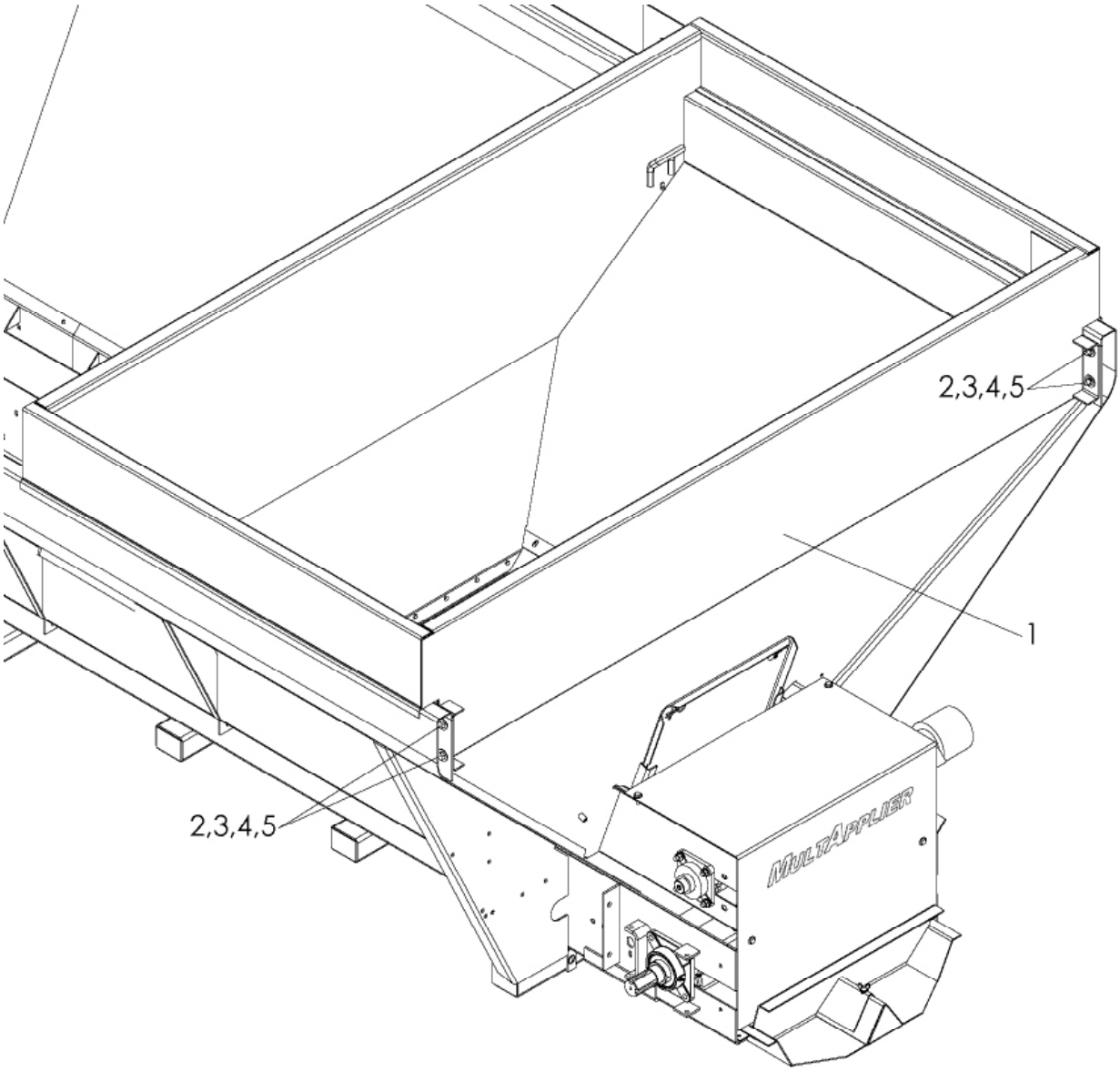
No responsibility is assumed for delay or damage to merchandise while in transit. Our responsibility ceases upon delivery of shipment to the transportation company from whom a receipt is received showing that shipment was in good condition when delivered to them, therefore, claims (if any) should be filed with the transportation company and not with Highway Equipment Company.

If your claims are not being handled (by the transportation company) to your satisfaction, please call the Parts Manager at Highway Equipment Company (319-363-8281) for assistance.

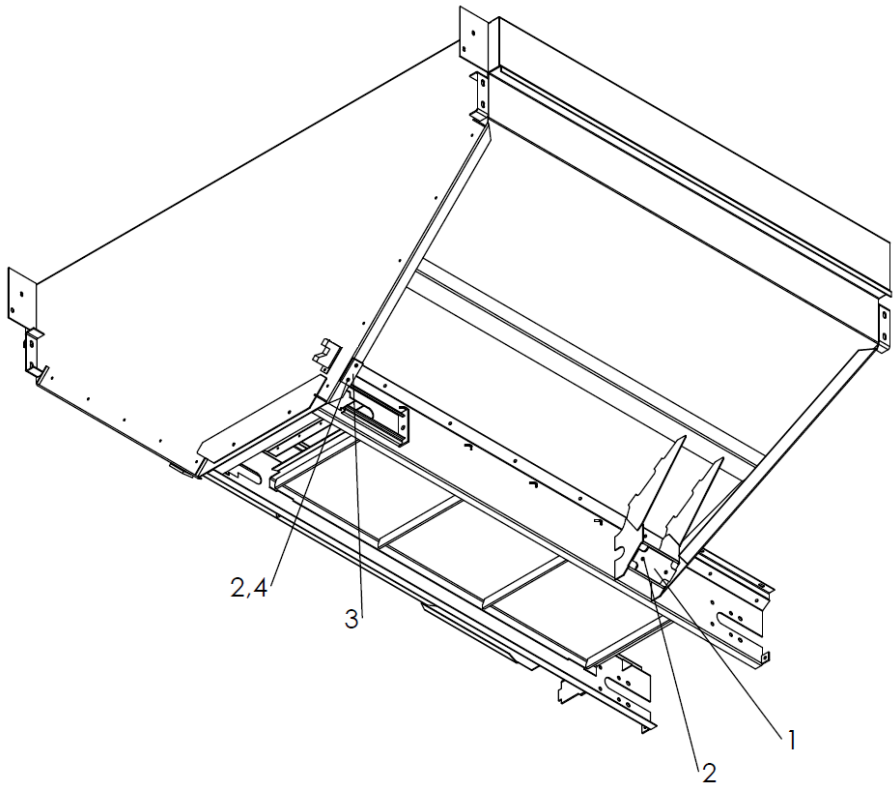
In the parts list the following symbols and abbreviations stand for:

* - Not Shown
AR – As Required
CS – Carbon Steel
SS – Stainless Steel

The parts listed under the different steel types (CS, 409 SS and 304 SS) are for that type of unit and do not necessarily mean the part is made of that type of steel.

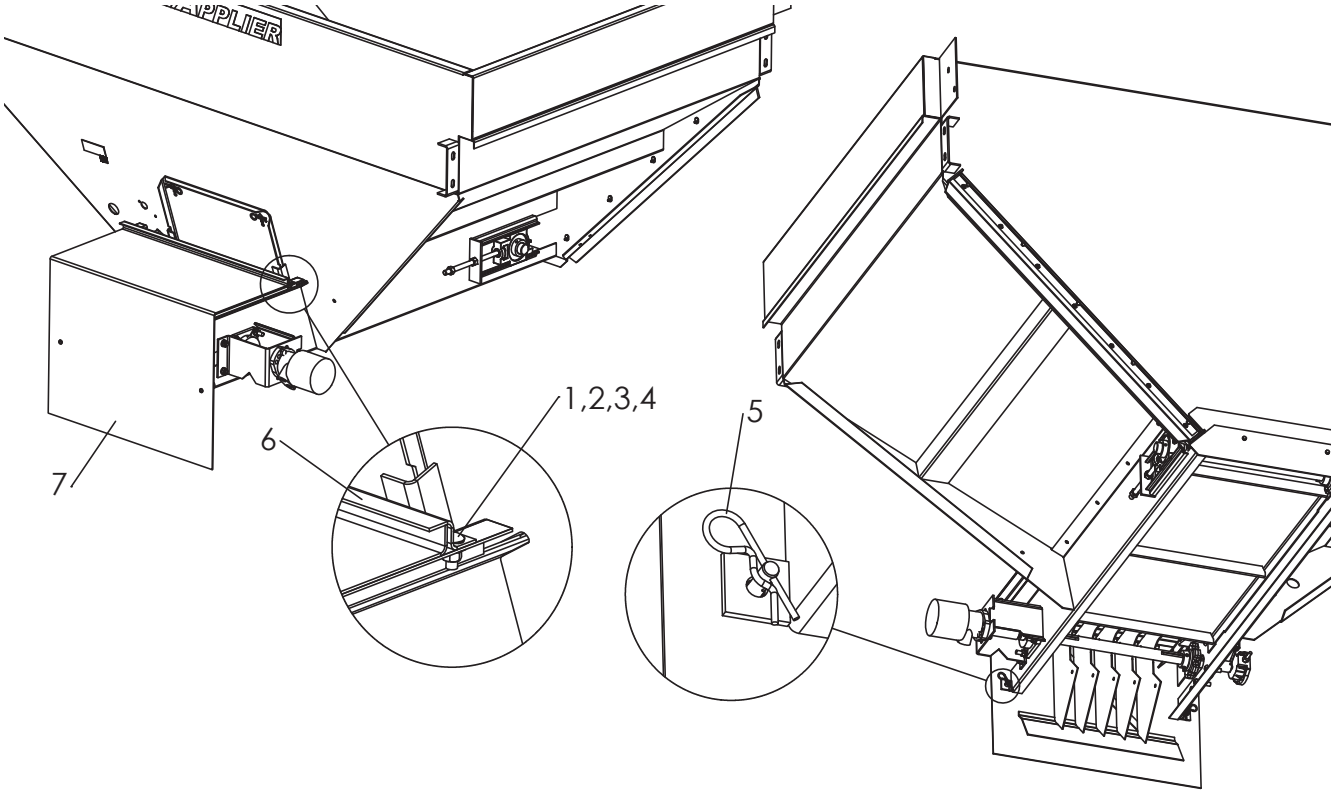


ITEM	PART NO.	DESCRIPTION	QTY
	86951	Hardware – Kit Mount	
1	98552	MULTAPPLIER – 5’ Shell Insert	1
	303964	MULTAPPLIER – 7’ Shell Insert	1
2	20128-X1	Cap Screw – 1/2 x 1 1/4 Grade 8	8
3	20695	Washer – Flat 1/2	16
4	20714	Washer – Lock 1/2	8
5	20646	Nut – Hex 1/2	8



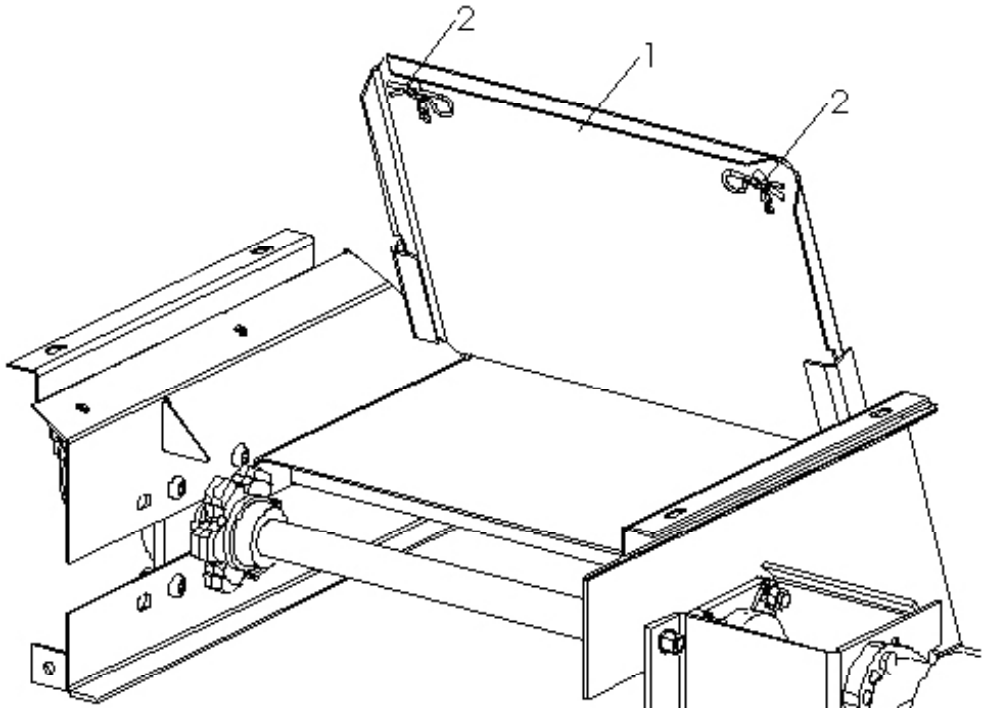
ITEM	PART NO.	DESCRIPTION	QTY
1	306924	Mount - Foot Pad	2
2	47268	Screw - Flathead 1/4-20 x 1 SS	8
3	307097	Mount - Pad	2
4	42034	Nut - Lock 1/4-20 SS	4

REAR COVER

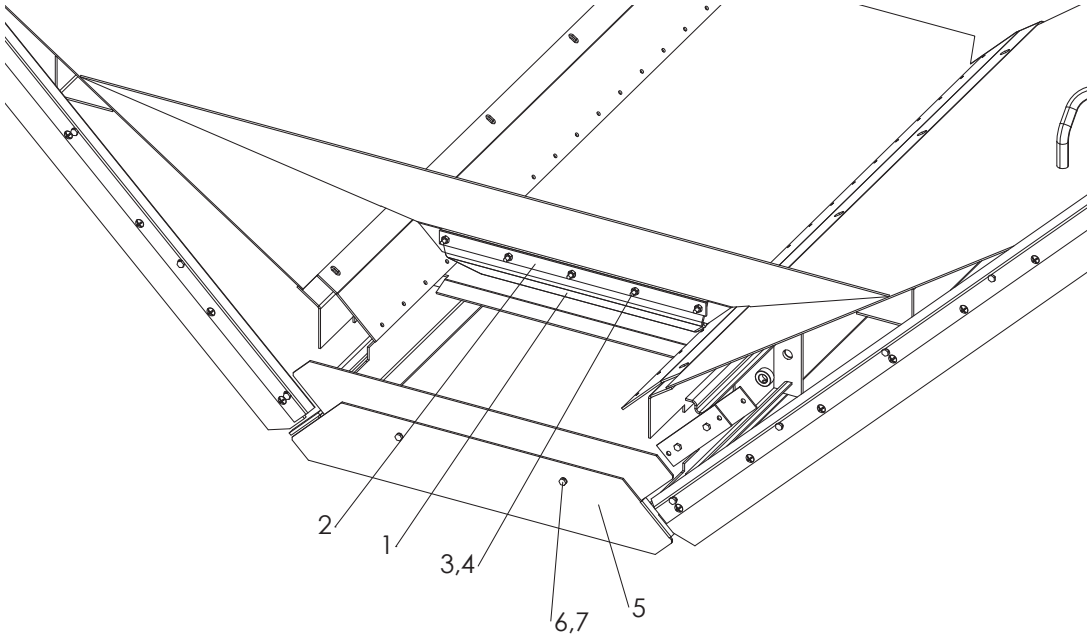


ITEM	PART NO.	DESCRIPTION	QTY
1	36408	Bolt - Carriage 3/8-16NC x 1 SS	2
2	36420	Washer - Lock 3/8 SS	2
3	36425	Washer - Flat 3/8 SS	2
4	36414	Nut - Hex 3/8-16NC SS	2
5	36429	Pin - Hair	2
6	98555	Holddown - Cover Rear	1
7	98562	Cover - Rear Weldment	1

REAR FEEDGATE

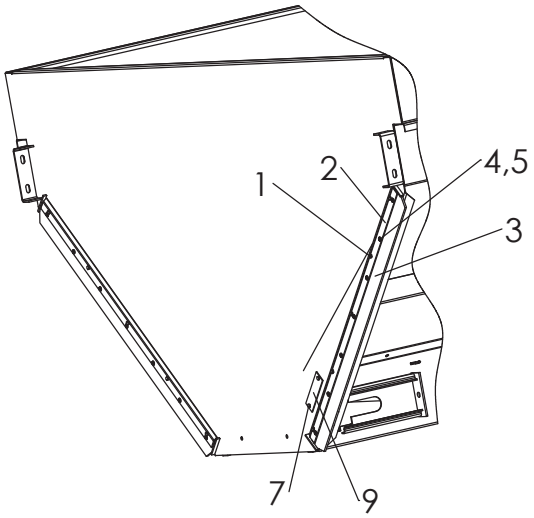


ITEM	PART NO.	DESCRIPTION	QTY
1	98557	Panel – Feedgate	1
2	36429	Pin – Hair 2.562 x .148	2

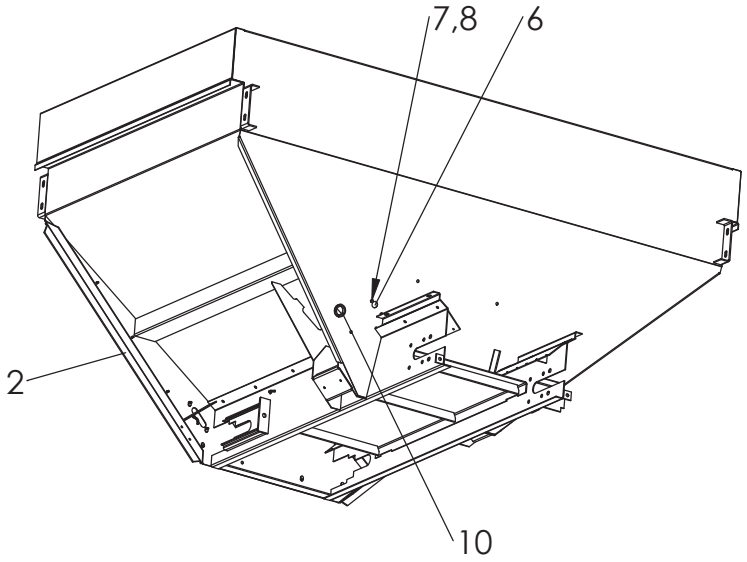


Note: Front endgate removed for clarity.

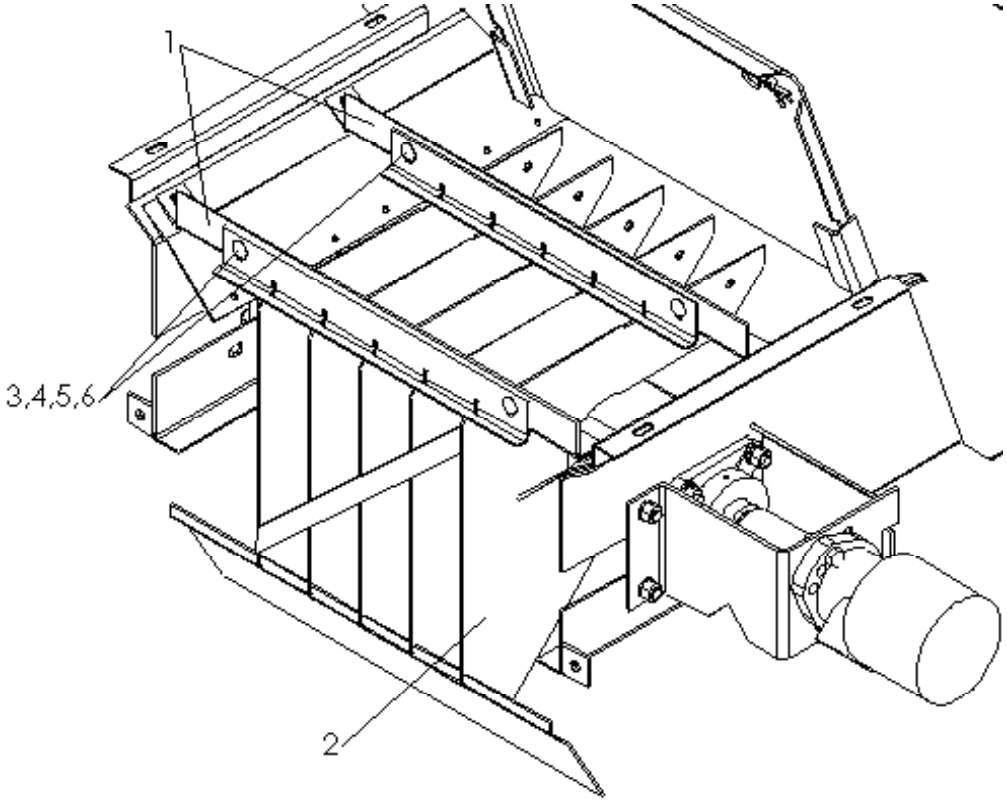
ITEM	PART NO.	DESCRIPTION	QTY
1	39426	Wiper – Belt Front	1
2	54230	Retainer – Wiper	1
3	42033	Screw - Truss Head 1/4 x 1	5
4	36412	Nut – Hex 1/4	5
5	86868	Feedgate - Panel 1.5”	1
	96984	Feedgate - Panel 2”	1
6	36398	Cap Screw - 3/8 x 1	2
7	36420	Washer - Lock 3/8	2



VIEW A-A



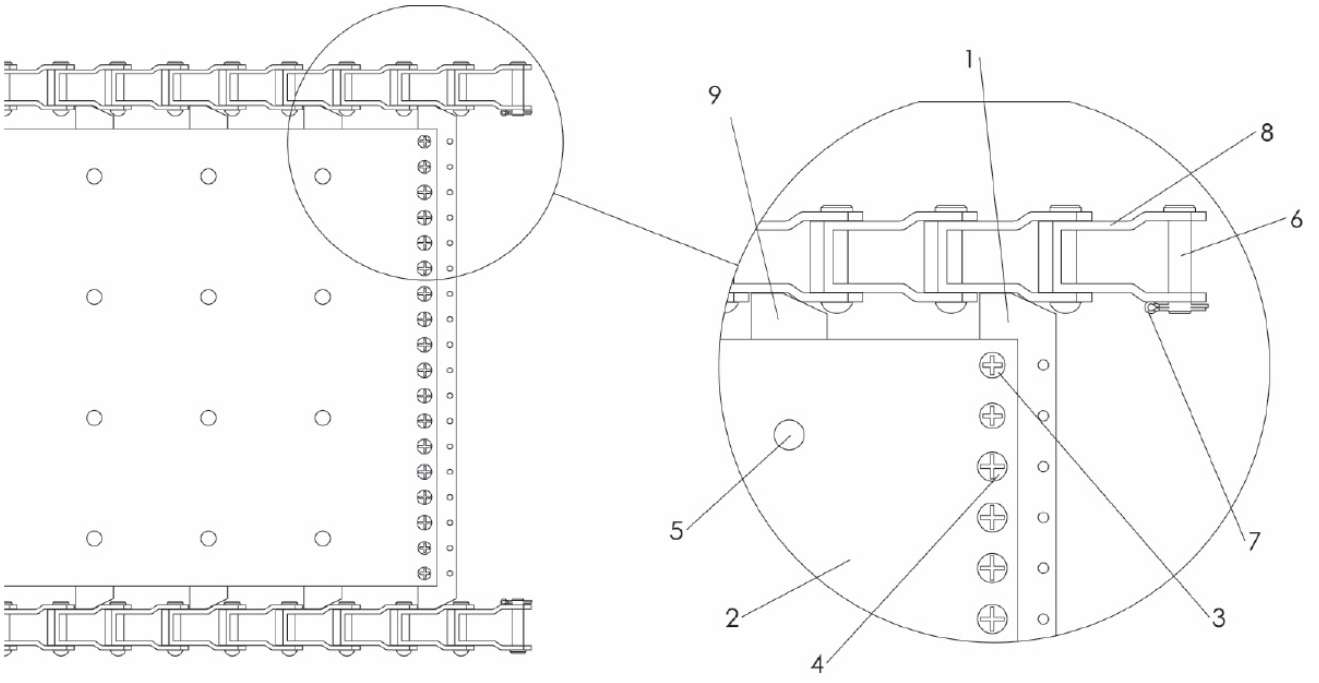
ITEM	PART NO.	DESCRIPTION	QTY
	97967	Seal - Assy, Includes 2-5	
1	36395	Cap Screw - 1/4-20NC x 1 SS	10
2	97966	Retainer - Seal 304	1
3	97968	Seal - 3 x 1/4 x 47-7/8	1
4	88931	Nut - Tee 1/4 x 1/4	7
5	56258	Screw - Truss Head 1/4-20 x 1/2 SS	7
6	305832	Plate - Bin Sensor	1
7	36393	Cap Screw - 1/4-20NC x 3/4 SS	4
8	42034	Nut - Lock 1/4-20 SS	2
9	307125	Plate - Bin Sensor 304	1
10	34129	Grommet - Rubber	1



ITEM	PART NO.	DESCRIPTION	QTY
1	86825	Support – Divider	2
2	98553	Divider – Weldment Hillside	1
3	36408	Bolt – Carriage 3/8 x 1	4
4	36425	Washer – Flat 3/8	4
5	36420	Washer – Lock 3/8	4
6	36414	Nut – Hex 3/8	4

Note: Use chain shield hardware to attach Item 1 to sills.

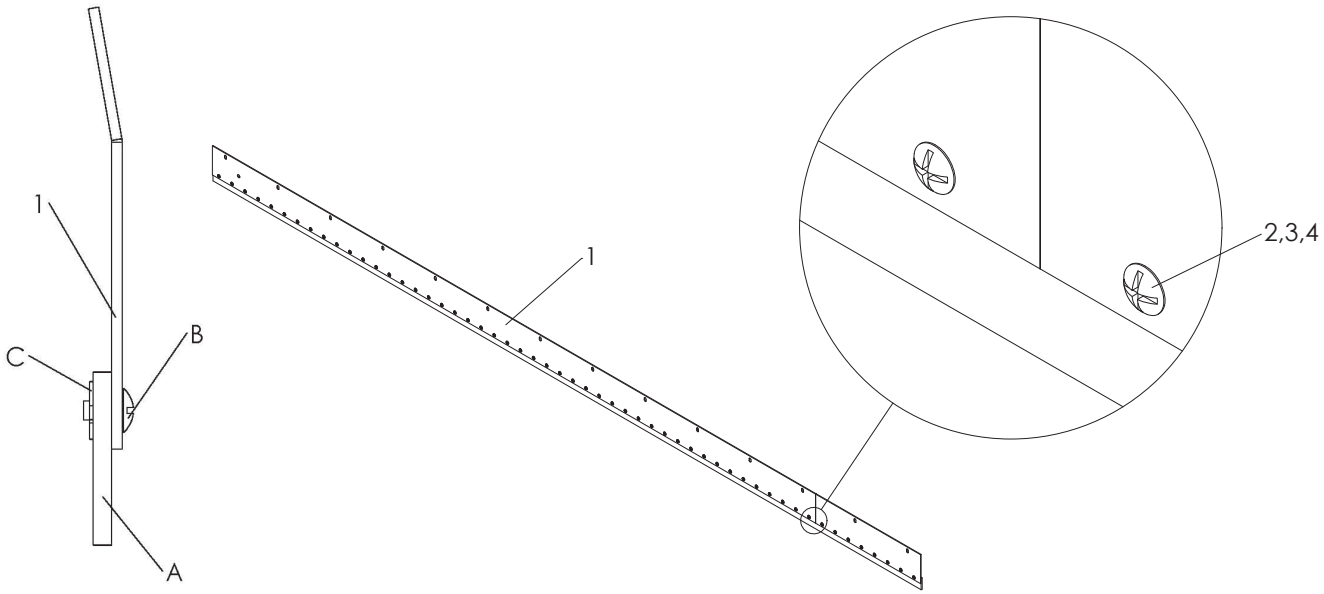
#4 BELT-OVER-CHAIN



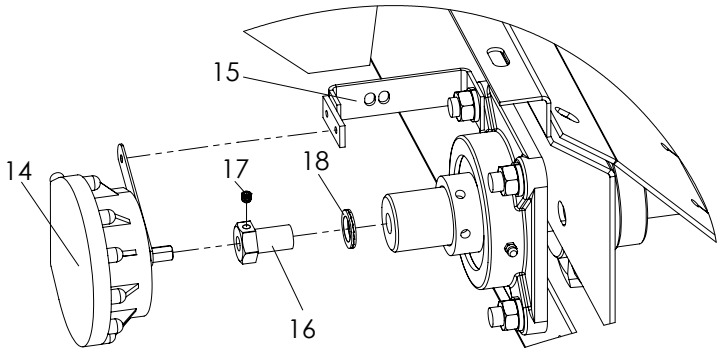
ITEM	PART NO.	DESCRIPTION	QTY
	308709	#4 BOC - 5’	
	308711	#4 BOC - 7’	
	70755	Splice Bar Assembly, Includes 1, 6-8	
1	70473	Bar - Cross Splicer	AR
2	305304-AA	Belt - MOR 18” x 132” 5’	1
	305304-AB	Belt - MOR 18” x 156” 7’	1
3	20617	Screw - Flat 1/4 x 1/2	8
4	20624	Screw - Truss 1/4 x 1/2	28
5	308534	Screw - 1/4 x 1/2	AR
6	21118	Pin - Chain Pintle	2
7	20817	Pin - Cotter	2
8	307194	Link - Chain	2
	90277	Link - Chain	2
	303980	Link - Chain	2
9	305642	Bar - Cross	AR

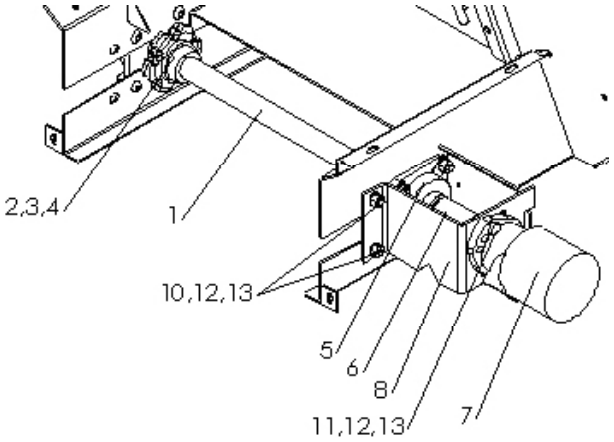
AR - As Required

CHAIN SHIELDS



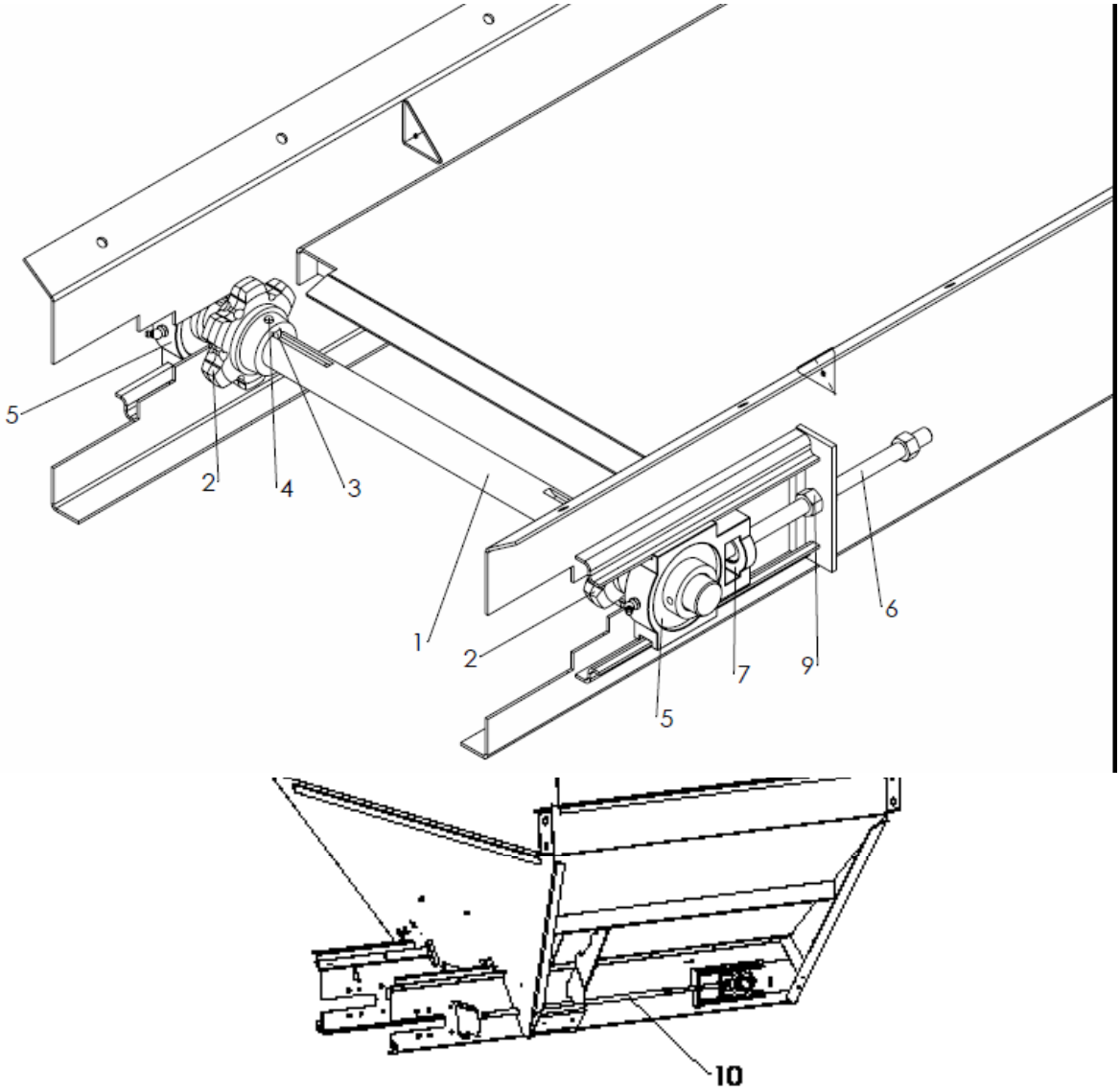
ITEM	PART NO.	DESCRIPTION		QTY
	86876	Shield - Chain Assy 5', Includes 1		
	303977	Shield - Chain Assy 7', Includes 1		
1	86798	Shield - Chain		2
	303978	Shield - Chain 7'		2
A	305975	Belting - Sealer Strip MOR	Feet	AR
B	56258	Screw - Truss Head 1/4 x 1/2 SS		AR
C	88931	Nut - Tee 1/4 x 1/4		AR
2	71829	Screw - Truss Head 3/8 x 1 SS		AR
3	36240	Washer - Lock 3/8		AR
4	36414	Nut - Hex 3/8		AR





ITEM	PART NO.	DESCRIPTION	QTY
1	86761-X2	Shaft – Drive 1-1/2 x 33	1
2	86757	Sprocket	2
3	6131	Key – Square	2
4	20743	Screw – Set	4
5	6697	Bearing	2
6	86762	Coupling	1
7	86765	Motor – Hydraulic 28.3 CID	1
	56293	Seal Kit – Hydraulic Motor	1
8	86766	Mount – Motor	1
9	304484	Screw – Button Head 1/2 x 1 1/2	8
10	72056	Bolt – Carriage 1/2 x 1	2
11	36539	Cap Screw – 1/2 x 1 1/2	2
12	36422	Washer – Lock 1/2	12
13	36416	Nut – Hex 1/2	12
14	303994	Encoder – DJ 180 with Hardware	1
	304056	Encoder - DJ 360 with Hardware	1
15	81949	Bracket - Dickey John Encoder	1
16	310601	Coupler - Rate Sensor SS	1
17	310603	Screw - Set 1/4-20NC x 1/4 SS	1
18	310602	Washer - Lock Special	1
19	*4059	Key - Square 5/15 x5/16 x 1-1/2	1

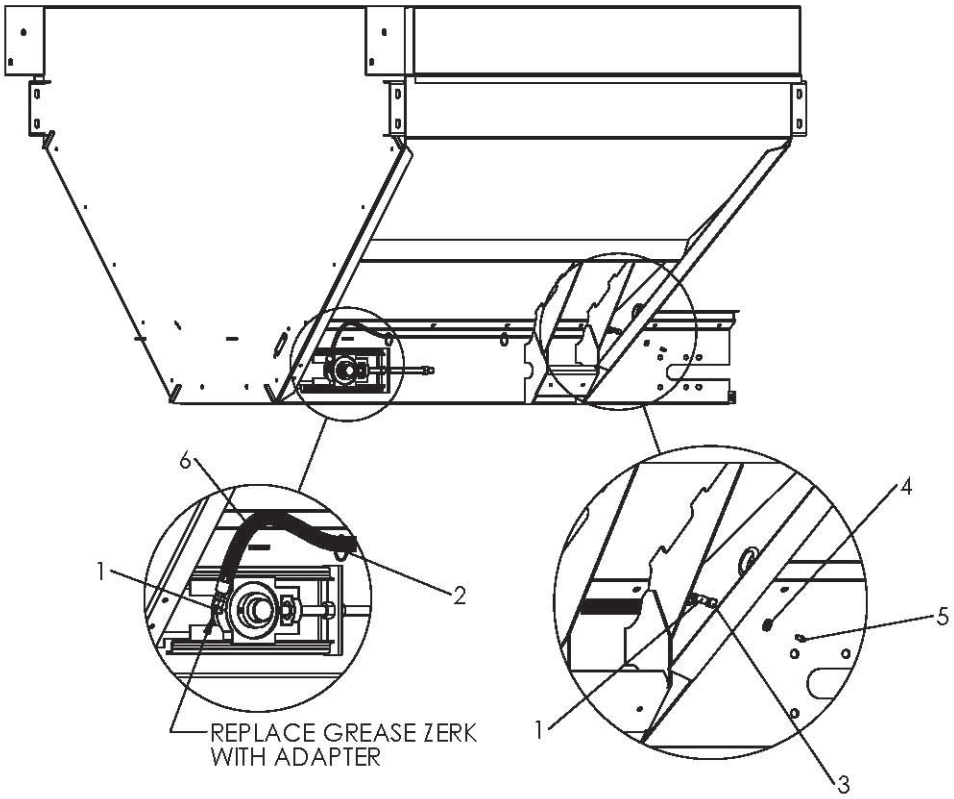
* - Not Shown



ITEM	PART NO.	DESCRIPTION	QTY
1	89779	Shaft – Idler	1
2	86757	Sprocket	2
3	6131	Key - Square	2
4	20743	Screw – Set 5/16 x 3/8	4
5	22511	Bearing	2
6	87857	Bolt Weldment	2
7	17078	Collar – Set	2
8	* 36417	Nut – Hex 5/8	2
9	87856	Nut Weldment	2
10	306974	Pipe - Weldment Adjustment 5’ 304	2

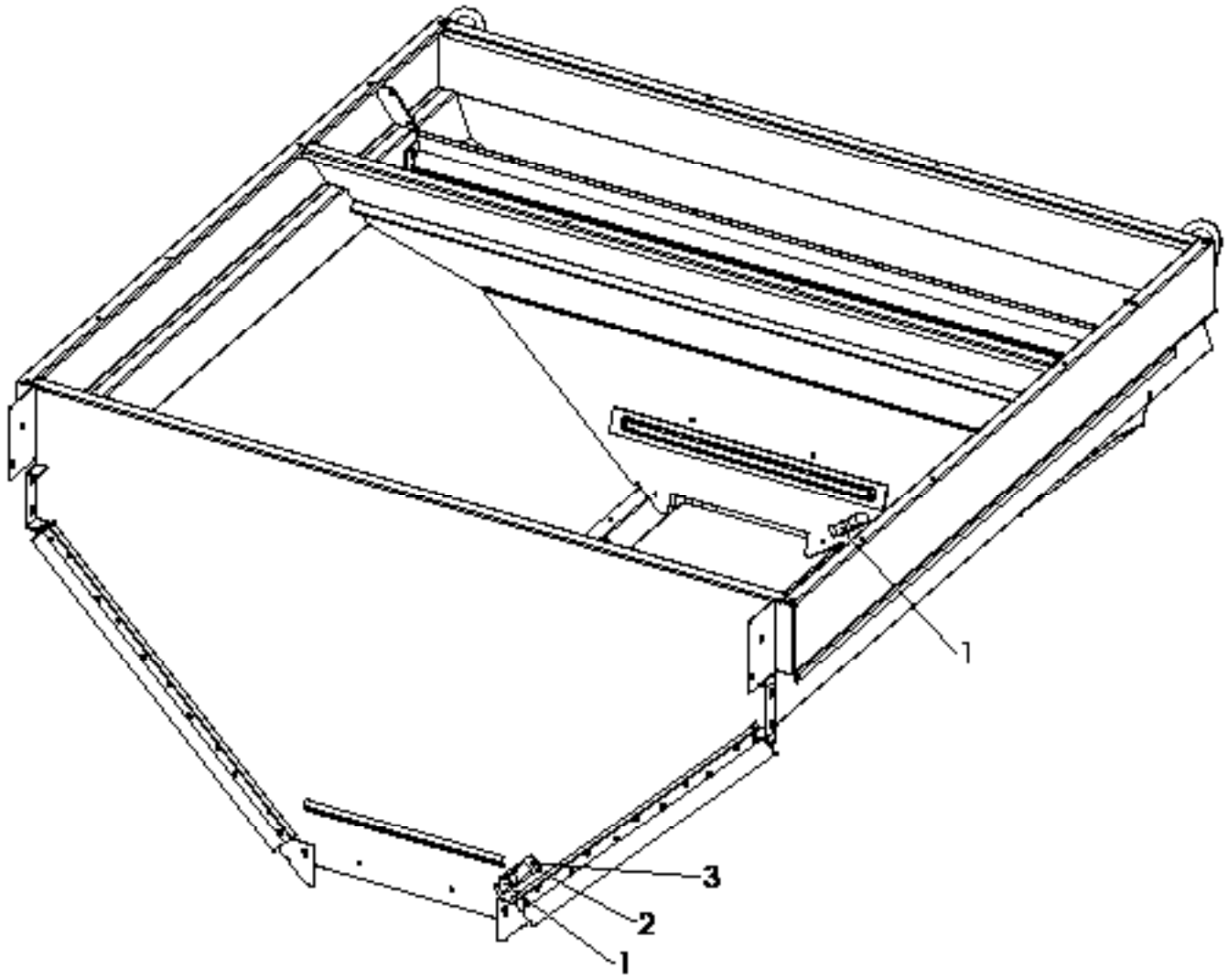
* - Not Shown

IDLER ZERKS



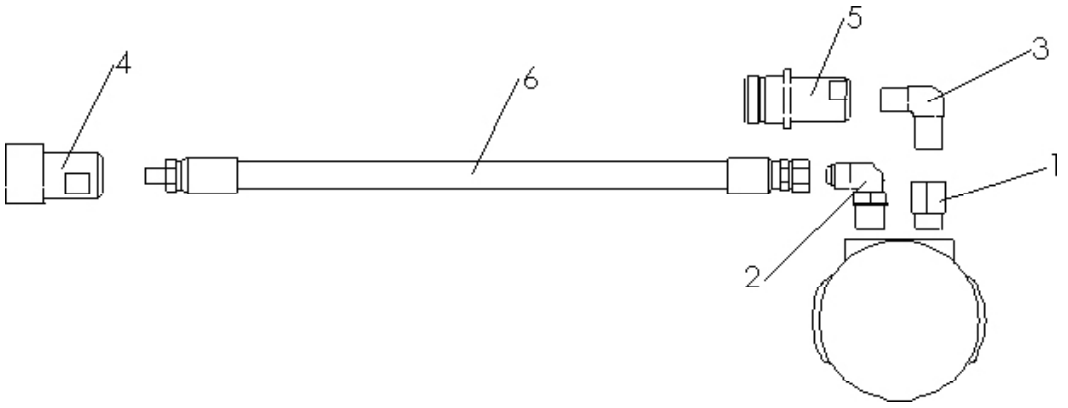
ITEM	PART NO.	DESCRIPTION	QTY
1	34734	Adapter - Elbow	4
2	99674	Tie - Cable	8
3	301332	Connector - Bulkhead	2
4	301333	Nut - Lock Connector	2
5	6072	Zerk - Grease	2
6	307131	Hose - Assembly 1/4 100R1 x 56 5’	2
	307128	Hose - Assembly 1/4 100R1 x 80 7’	2

BIN SENSOR

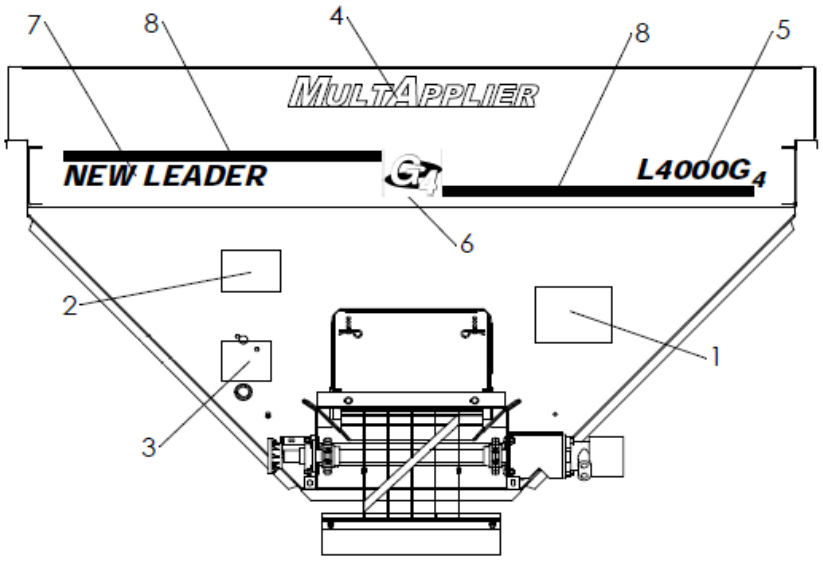


ITEM	PART NO.	DESCRIPTION	QTY
1	98787-AB	Sensor - Bin Level 18” Lead	2
2	307124	Mount - Sensor 304	1
3	36393	Cap Screw - 1/4 x 3/4 SS	2
4	*307130	Cable - Jumper 102”	1
5	*98787-AD	Cable - 27’ Bin Level Sensor	2

* - Not Shown



ITEM	PART NO.	DESCRIPTION	QTY
1	22020	Bushing	1
2	29772	Adapter - Elbow 90°	1
3	34742	Adapter - Elbow 90°	1
4	96651	Disconnect - Quick Female	1
5	96652	Disconnect - Quick Male	1
6	98667	Hose Assembly - 1/2 x 36	1



ITEM	PART NO.	DESCRIPTION	QTY
1	368	Decal - Danger Flying Material	1
2	71526	Decal - Important Spread Pattern	1
3	21476	Decal - Important Chain Life	1
4	88245	Decal - MULTAPPLIER	1
5	306151	Decal - L4000G4, Black	1
6	87122	Decal - G4 Black/Red	1
	87129	Decal - G4 Black/White	1
7	87164	Decal - New Leader, Black	1
8	87162	Decal - Striping Black (per foot)	AR