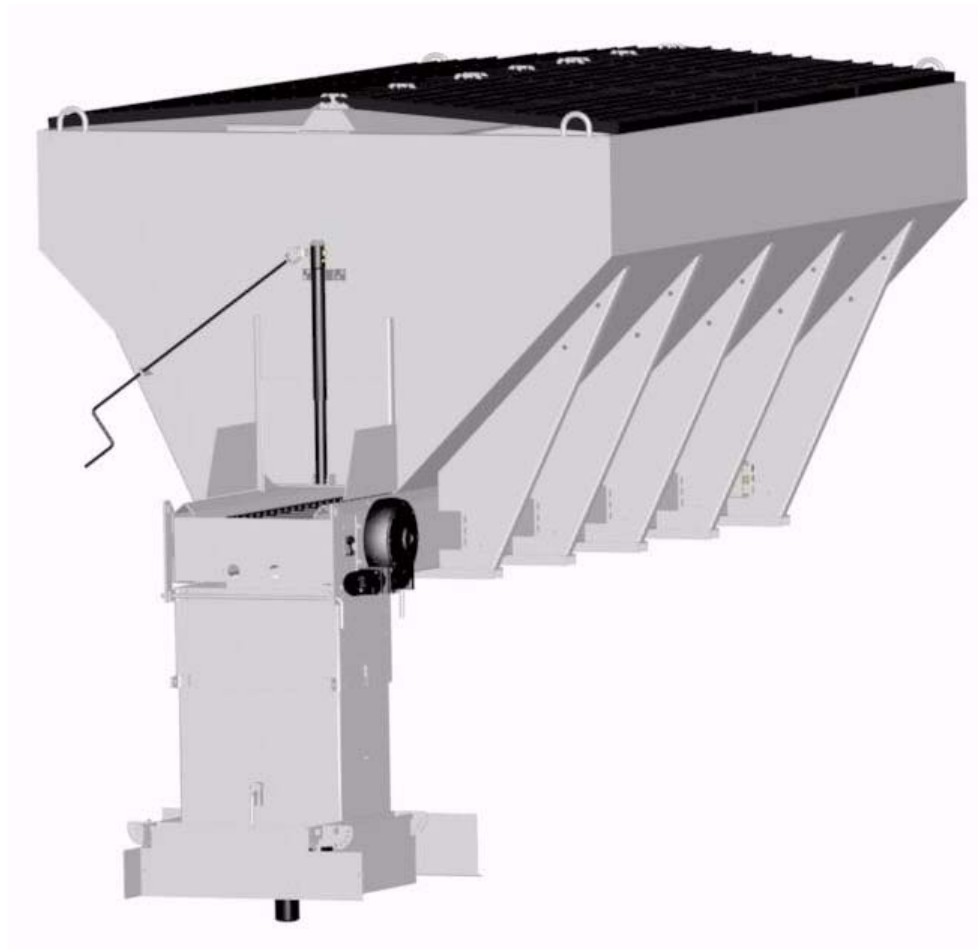


DO NOT THROW AWAY

INSTALLATION and OPERATING INSTRUCTIONAL MANUAL

READ BEFORE INSTALLATION

EV-SELECT V-BOX MATERIAL SPREADERS



Manual No. 00118-051-01 REV C
June 08, 2010



See page 4 for
Table of Contents

SAFETY PRECAUTIONS

THE BEST SAFETY DEVICE IS A CAREFUL OPERATOR!



This symbol means ATTENTION!
Become Alert!
Your safety is involved!
Please read and understand completely before
operating!



Improper use of this equipment can result in serious injury.
To reduce this possibility give complete and undivided
attention to the job at hand, and follow these safety precautions.

PREPARATION:

Know your controls. Read this instruction manual. Learn how to stop the equipment quickly in an emergency.

Do not allow children to operate machine; nor adults to operate it without proper instructions.

Keep all individuals not involved in the use of the equipment a safe distance away.

OPERATION:

Observe settings on all equipment controls, and shut off all equipment before starting engine so equipment will not intentionally operate when engine is started.

Always check area around machine before engaging or operating controls.

Always wear relatively tight and belted clothing when operating equipment. Loose jackets, shirts, sleeves or other loose clothing should not be worn because of the danger of catching them in moving parts or controls.

Stop and inspect equipment if unusual movement, sounds or noises are observed. Repair damage before restarting and operating the equipment.

Disengage power to all operating equipment: (1) before leaving operator's position, (2) before making any repairs, adjustment, or cleaning, or (3) when not in use.

Take all possible precautions when leaving the equipment unattended; such as disengaging the hydraulic system from the vehicle engine, shifting vehicle out of gear, setting parking brake, shutting off engine and removing key.

NOTICE:

INSTALLATION OF LIGHT BAR (If furnished)

1. DEPENDING UPON DISTANCE LIGHT BAR IS INSTALLED ABOVE GROUND, LIGHTING IN LIGHT BAR MAY NOT MEET FEDERAL LIGHTING REGULATIONS. EQUIPMENT INSTALLER IS RESPONSIBLE FOR MAKING SURE ALL LIGHTING MEETS FEDERAL LIGHTING REGULATIONS.

2. ANY ADDITIONAL WIRING CONNECTIONS MADE ON TRUCK CHASSIS FOR "OPTIONAL" LIGHTING ON LIGHT BAR MUST BE MADE ACCORDING TO VEHICLE MANUFACTURER'S RECOMMENDATIONS.

3. It is the responsibility of the owner of this spreader to replace any and all safety decals which become unreadable or otherwise defaced, and to apply the new decals to the spreader in a secure manner in the same location as the old decals.

Read and observe all "**DANGER**" and "**CAUTION**" safety decals appearing on equipment.

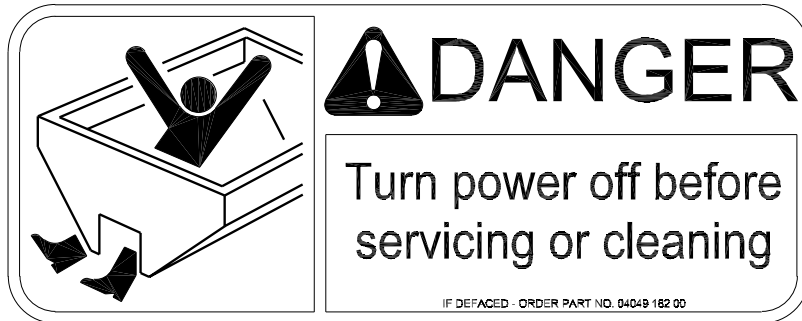
The following safety decals appear in various locations on your equipment. The sizes of the decals shown in this manual have been reduced in order to save space. Refer to page 3 for the location of safety decals on your equipment.

CAUTION

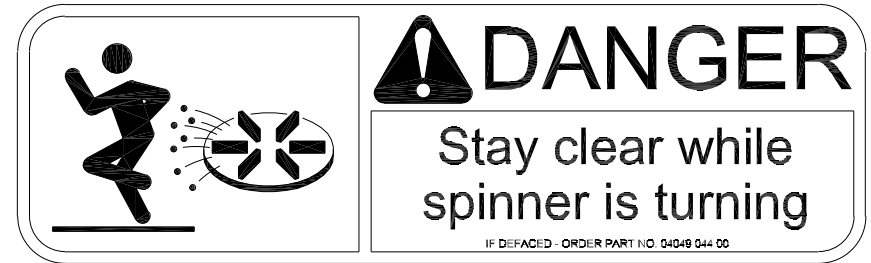
1. KEEP ALL SHIELDS IN PLACE.
2. MAKE CERTAIN EVERYONE IS CLEAR BEFORE STARTING MACHINE OR MOVING VEHICLE.
3. KEEP HANDS, FEET, AND CLOTHING AWAY FROM ALL POWER DRIVEN PARTS.
4. DISENGAGE PTO, SHUT OFF HYDRAULIC VALVE, AND SET PARKING BRAKE BEFORE LEAVING OPERATORS POSITION. MAKE SURE ALL MOVEMENT HAS STOPPED BEFORE SERVICING, UNCLOGGING, OR CLEANING MACHINE.
5. USE FLASHING LIGHTS WHEN OPERATING MACHINE.
6. MAKE SURE MACHINE IS SOLIDLY SUPPORTED WHEN IT IS BEING MOUNTED, DISMOUNTED, OR STORED.

IF DEFACED - ORDER PART NO. 04049 046 00

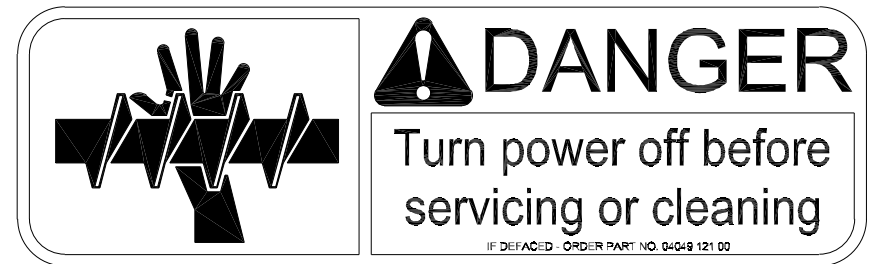
This decal appears on the back left side of the spreader. It cautions all to observe general safety procedures when operating this equipment.



This decal appears on the back and front left and right sides of spreader. It alerts all to the danger of being caught inside the spreader when it is turned on, and where serious personal injury could result.



This decal appears near the spinner assembly on the back of the spreader. It alerts all to the danger of being struck by material being spread by the spinner assembly which could result in serious personal injury.



This decal appears on the back and front left and right sides of spreader. It alerts all to the danger of being caught in the dropout opening of the spreader conveyor where serious personal injury could result.

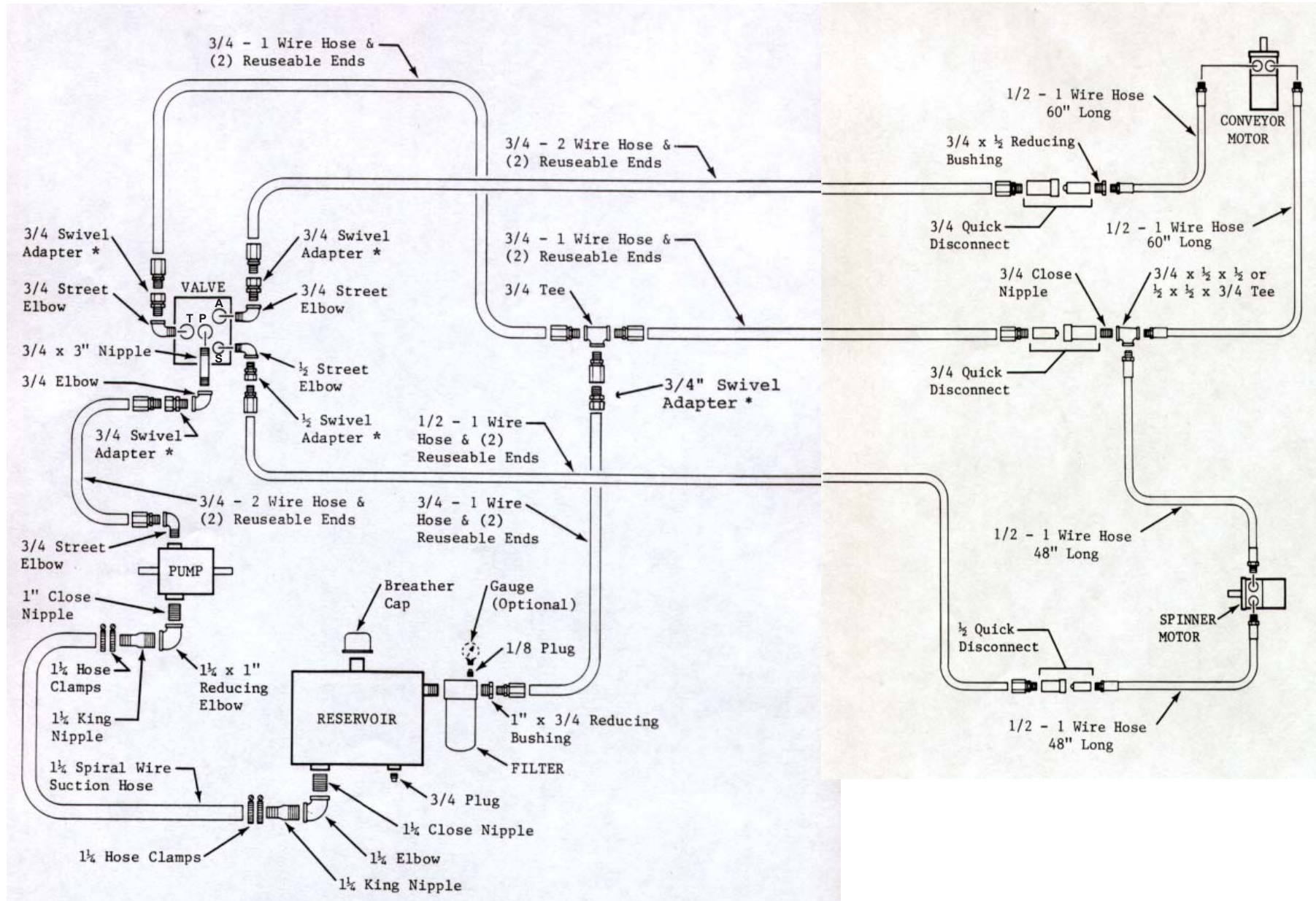
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CONTROL AND HYDRAULIC SYSTEM SPECIFICATION

- Hydraulic Oil.....Good Grade of MS10W Hydraulic Oil which has wear, oxidation and foam inhibitors.
- Oil Filter.....10 Micron Element Return Line
- Relief Valve Setting.....1500 PSI
- Oil Flow.....Conveyor (A-Port) 0-15 GPM
Spinner (S-Port) 0-7 GPM

CONTROL HYDRAULICS INSTALLATION (Continued)



CONTROL HYDRAULICS INSTALLATION (Continued)

1. Hydraulic components should be kept as clean as possible during assembly operations.
2. Galvanized pipe and pipe fittings must not be used because flaking of galvanizing material can cause damage to major hydraulic components.
3. A pipe joint sealant, compatible with hydraulic oil, must be applied to all screwed fittings. (Teflon tape is not recommended.)
4. Sufficient hose should be allowed for raising dump body without kinking or stretching hose.
5. Hose should be protected where severe wear may be caused by vibration or sliding movement.
6. Long runs of hose should be supported by nylon ties or clamping.
7. (Auger, Spinner)
Pressure and return hoses, connected to spinner or conveyor motors, may be reversed for proper motor rotation.
8. Three hose lines to rear of truck may be installed inside truck frame, under dump body floor, and secured in place.
9. Use hose manufacturers recommendations for fitting reusable hose ends.

* Swivel adapters are included in kits when "screw-on" type reusable hose ends are furnished.

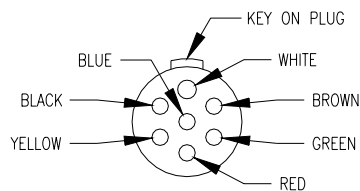
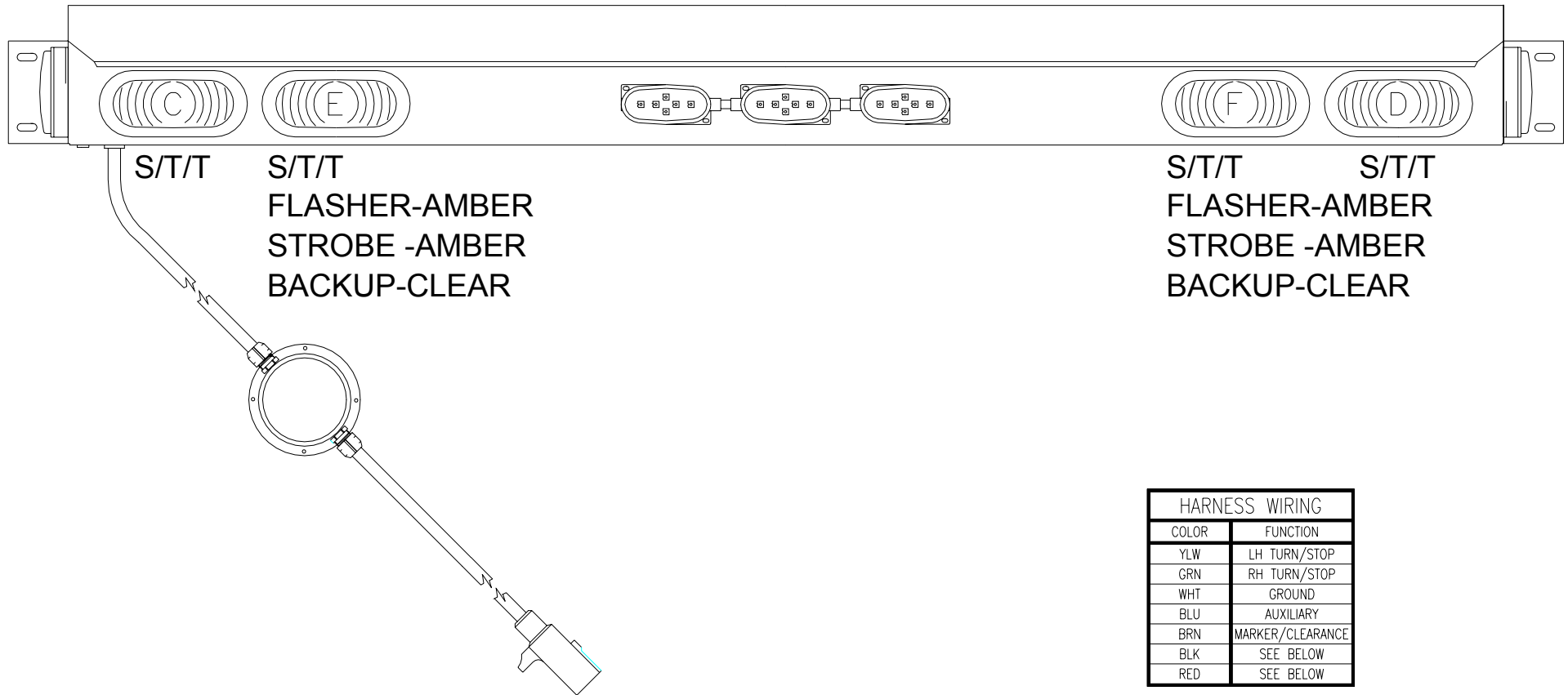
•This diagram is Swenson Spreader Company's complete recommended hydraulic system.

•Standard pump, valve, tank and hose kits make up the complete system.

•This diagram may be used to install an entire system, or part of a system, depending upon kits supplied, and existing components on truck.

•Alternate proven methods and components are acceptable to suit various truck model requirements.

INSTALLATION AND LIGHT BAR WIRING DIAGRAM



END VIEW OF 7-WAY PLUG

NOTICE:
 DEPENDING UPON DISTANCE LIGHT BAR IS INSTALLED ABOVE GROUND, LIGHTING IN LIGHT BAR MAY NOT MEET FEDERAL LIGHTING REGULATIONS.
 EQUIPMENT INSTALLER IS RESPONSIBLE FOR MAKING SURE ALL LIGHTING MEETS FEDERAL LIGHTING REGULATIONS.

HARNESS WIRING	
COLOR	FUNCTION
YLW	LH TURN/STOP
GRN	RH TURN/STOP
WHT	GROUND
BLU	AUXILIARY
BRN	MARKER/CLEARANCE
BLK	SEE BELOW
RED	SEE BELOW

CHASSIS WIRING FOR "OPTIONAL" LIGHT CONNECTION			
FUNCTION	* WIRE TO BE DISCONNECTED	RED WIRE CIRCUIT	BLK WIRE CIRCUIT
TAIL	RED	N/A	MARKER/CLEARANCE
FLASHER	BLK	FLASHER	N/A
STROBE	BLK	STROBE	N/A
BACK-UP	BLK	BACK-UP	N/A
* THIS IS THE WIRE TO DISCONNECT FROM THE CHASSIS SIDE OF THE 7-WAY CONNECTION. IMPORTANT: ANY ADDITIONAL WIRING CONNECTIONS MADE ON CHASSIS FOR "OPTIONAL" LIGHTING ON LIGHT BAR MUST BE MADE ACCORDING TO VEHICLE MANUFACTURER'S RECOMMENDATIONS.			

FILENAME: Z:\00118\00118-051-01-LBWD

LIGHT BAR WIRING DIAGRAM

V-BOX INSTALLATION INSTRUCTIONS

THE MODEL EV SERIES SPREADER IS INTENDED TO BE INSTALLED ON A STANDARD 34" WIDE TRUCK CHASSIS, OR MAY BE INSTALLED INSIDE AN APPROPRIATE LENGTH DUMP BODY. THE FOLLOWING METHODS CAN BE USED AS A GUIDE FOR EITHER TYPE OF INSTALLATION.

INSTALLATION ON TRUCK CHASSIS: (Refer to page 10 for illustration.)

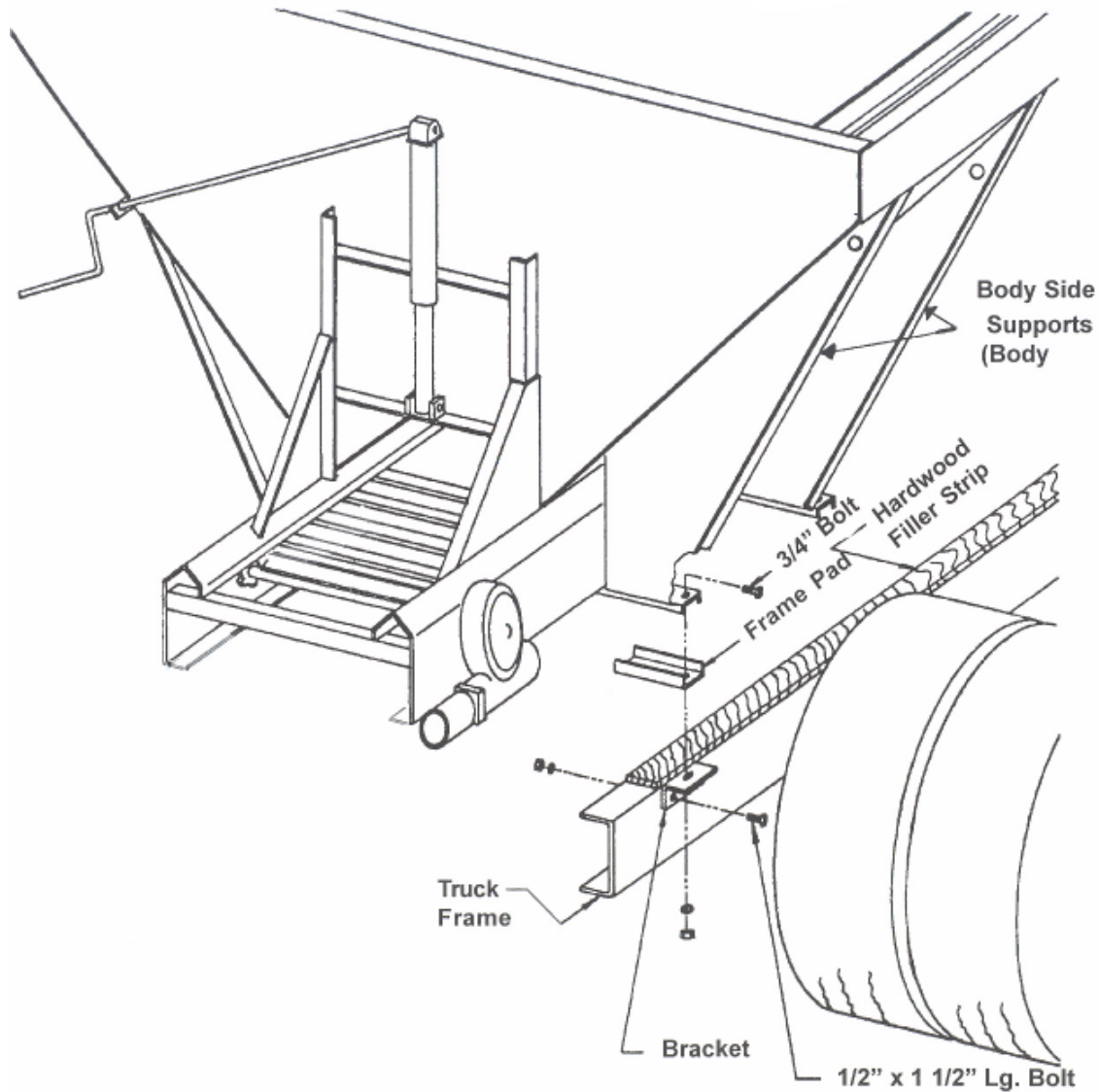
1. It is recommended that at least two mounting angles be located on each side of truck frame. The mounting angles should be located approximately at the front and rear of hopper. Exact placement may vary from left side to right side due to obstructions on truck frame. Mounting hardware kits are available for truck chassis mount installations. For 8 ft. through 11 ft. V-Boxes order **PART NO. 00001-086-00**. For 12 ft. through 22 ft. V-Boxes order **PART NO. 00001-085-00**.
2. Mounting angles should be bolted to the vehicle frame. Drill holes only in the frame web; drilling holes in the frame flanges will weaken the frame. DO NOT WELD MOUNTING ANGLES TO THE TRUCK FRAME. Doing so can cause fatigue cracking of the truck frame.
3. Hardwood wearstrips, usually 1" x 3" (not furnished), may be fitted to the vehicle frame. Mark rivet head locations on the strips and counterbore just deeply enough for clearance. Secure wearstrips in place at each end.
4. The hopper should be positioned on the wooden wearstrips so that a distance of approximately 6" be left between the vehicle cab and the front of the hopper. This will facilitate future servicing of the conveyor chain.

5. A portion of some hopper side supports may have to be cut out to clear the vehicle tires. If this is necessary, do not cut out any more than is required. Also, when the formed flange is removed, it is important that a new flange be fitted and welded to conform to the cutout portion.

INSTALLATION IN DUMP BODY:

1. Remove and store dump body tailgate.
2. Install V-Box centered between dump body sides and as far forward as possible. Longitudinals must overhang rear at least 20" for spinner, and 24" if optional ladder is installed. If dump body floor is not flat, it is suggested the V-Box be placed on two 1" x 6" hardwood boards. This will evenly distribute weight of the loaded V-Box on dump body floor.
3. Four optional tie down bolts (two each side) are hooked into holes in upper ends of body side supports. Tie down hooks are hooked under rail of the dump body and nut and jam nut tightened.

V-BOX INSTALLATION INSTRUCTIONS

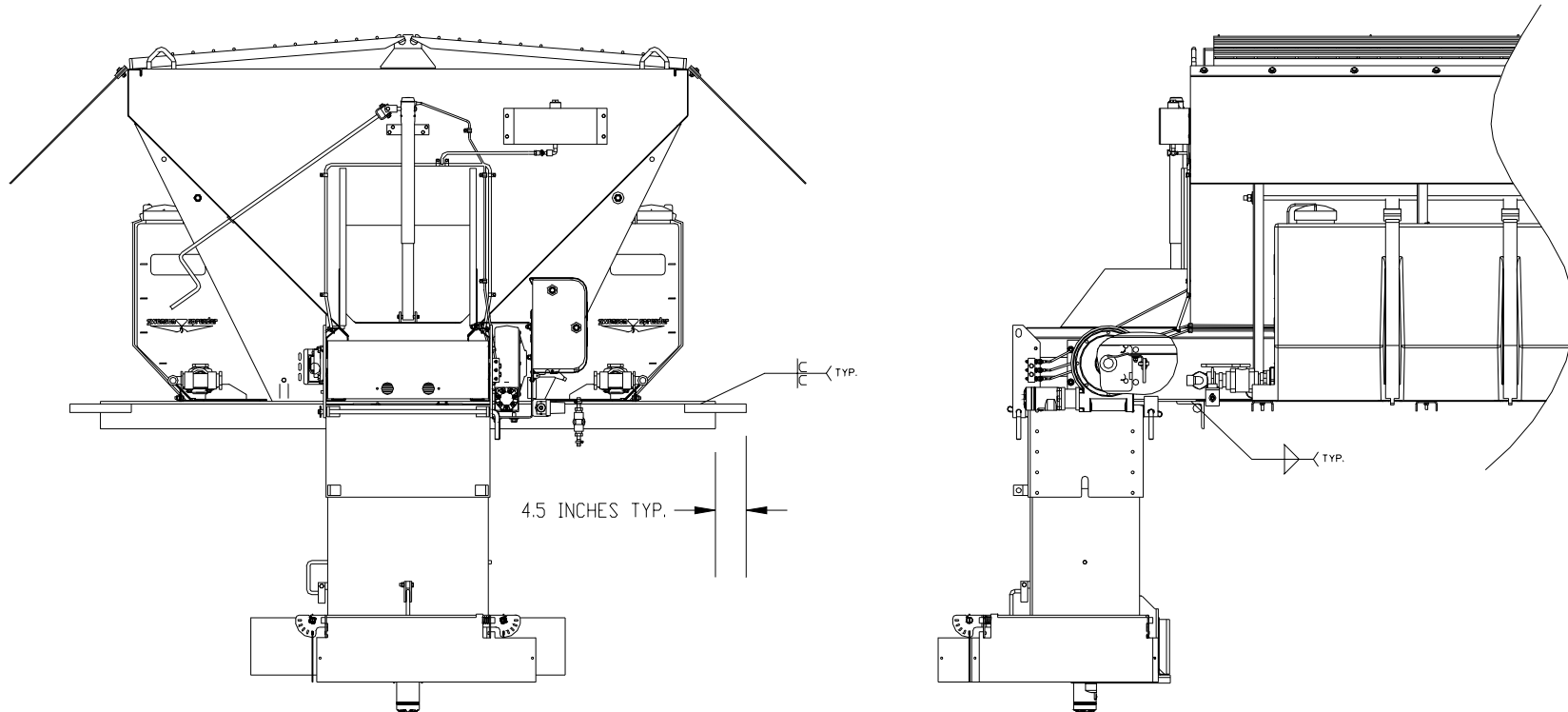


PARTS LIST FOR TRUCK CHASIS MOUNT MOUNTING HARDWARE

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00104-538-00	A/N	Frame Pad
2	00104-017-00	A/N	Hold Down Bracket
3	04003-005-04	A/N	Bolt, 1/2" x 1 1/2" H.H. Gr. 5
4	04003-007-02	A/N	Bolt, 3/4" x 3 1/2" H.H. Gr. 5

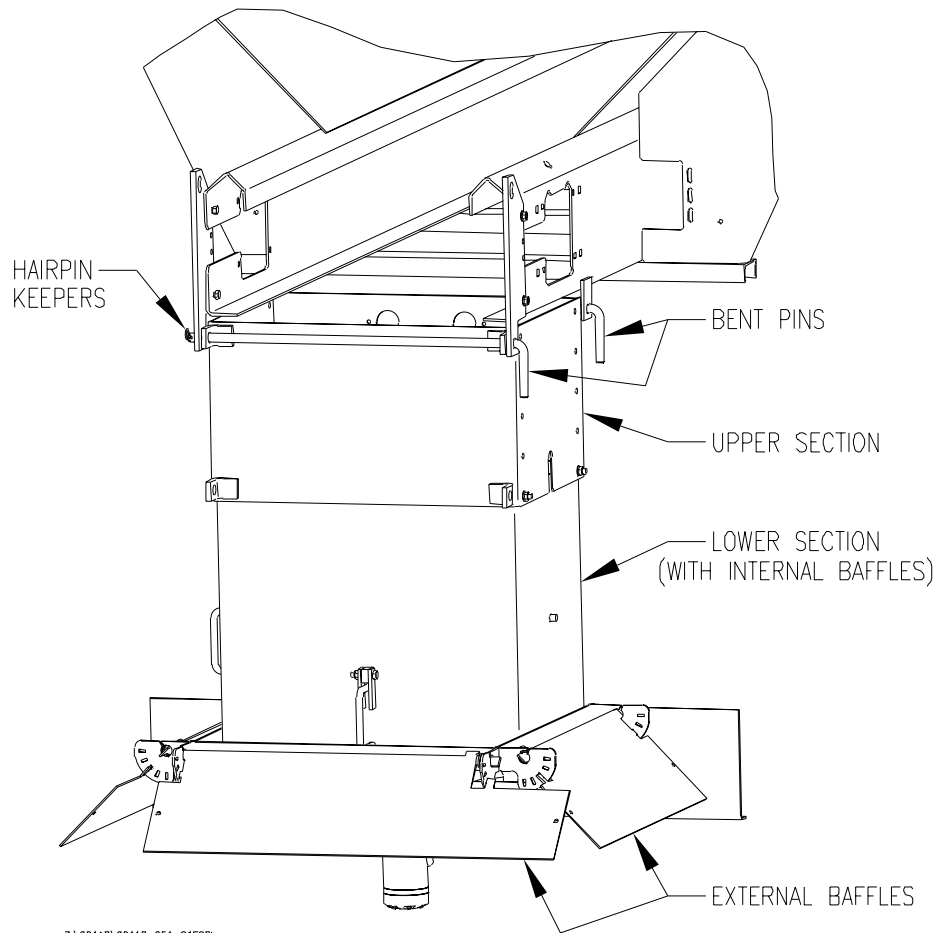
A/N = AS NEEDED

TAILGATE LATCH INSTALLATION INSTRUCTIONS



1. Install V-Box in truck and position to where you want it.
2. Hold tailgate latch angle and latch pins in proper positions to engage body tailgate latches and weld angle in (4) places as shown. Weld latch pins complete.
3. Use appropriate welding materials and procedures to weld mild steel to stainless steel.

SPINNER INSTALLATION INSTRUCTIONS



1. Using long bent pins and hairpin keepers, assemble spinner upper section to longitudinal brackets.
2. Position lower section inside upper section and temporarily support.
3. Select height adjustment holes which will most closely position spinner disc 18" above road surface.
4. Position holes in lower section to selected holes in upper section, and assemble hardware.
5. Connect hydraulic hoses to spinner motor making sure spinner disc rotates in counter clockwise rotation (as viewed from top of spinner).

DANGER!

OPERATING INSTRUCTIONS

1. WHEN STARTING UP NEW EQUIPMENT, BE SURE EVERYONE IS STANDING CLEAR, WATCH FOR ANYTHING THAT MAY REQUIRE SHUTTING SYSTEM DOWN. EQUIPMENT MUST BE STARTED UP SLOWLY AND WATCHED FROM A SAFE DISTANCE. WATCH FOR ANYTHING THAT MAY BE HITTING SOMETHING THAT IT SHOULD NOT BE HITTING, AND LISTEN FOR SOUNDS THAT ARE ABNORMAL. CORRECT ANYTHING THAT IS ABNORMAL BEFORE CONTINUING USE OF EQUIPMENT.
2. BEFORE WORKING IN OR AROUND SPREADING EQUIPMENT, HYDRAULIC CONTROL VALVE LEVER MUST BE IN "OFF" POSITION, PTO MUST BE DISENGAGED, AND TRUCK ENGINE MUST BE SHUT OFF.
3. WHEN SPREADER IS REMOVED FROM VEHICLE, OR NOT IN USE, THE VALVE ON-OFF LEVER SHOULD BE IN THE "OFF" POSITION. IF LEFT IN "ON" POSITION EXCESSIVE HEAT MAY OCCUR IF PUMP CONTINUES TO PUMP OIL THROUGH THE HYDRAULIC VALVE. THIS THEN COULD CAUSE A HOSE TO BURST SPRAYING HOT OIL ON THOSE NEARBY.
4. DURING SPREADER REMOVAL OPERATIONS, THE VALVE ON-OFF LEVER SHOULD BE IN THE "OFF" POSITION. PTO MUST BE DISENGAGED AND TRUCK ENGINE MUST BE SHUT OFF.
4. Keep Conveyor and spinner knobs on valve in closed position.
5. Engage PTO and allow hydraulic oil to circulate several minutes to warm up.
6. Open both valve knobs to first position.
7. Move valve ON-OFF lever to "ON" position.
8. Examine conveyor and spinner to see if they are functioning properly. (They will be operating slowly.) Spinner should turn in CCW rotation as viewed from above spinner. Conveyor should operate rearward.
9. Open valve knobs to other positions and check to see if spinner and conveyor operate faster as knobs are opened, and slower as knobs are closed.
10. Turn valve knobs to closed position and move ON-OFF lever to "OFF" position.
11. Shut truck engine off.
12. Check entire hydraulic system for leaks.
13. Refill reservoir to three-fourth full.
14. Hydraulic system is now ready for use.

INITIAL START UP:

1. Fill reservoir about three-fourths full with hydraulic oil. (See page 5 for type.)
KEEP OIL CLEAN.
2. Start truck engine.
3. Be sure valve ON-OFF lever is in "OFF" position.

OPERATING INSTRUCTIONS (Continued)

PREPARING SPREADER FOR USE:

1. Position INTERNAL spinner baffles to position # 1 as shown on page 14.
2. Start truck engine and allow hydraulic system to warm up by shutting off spinner and conveyor knobs and moving ON-OFF lever to "ON" position.
3. Move ON-OFF lever to "OFF" position after warming up.
4. Put spreading material in V-Box.
5. Open spinner and conveyor knobs, and move ON-OFF lever to "ON" position. Spread small amount of material to determine placement of material at various spinner and conveyor speeds in this INTERNAL baffle position.
6. Move valve lever to "OFF" position and shut off truck engine.
7. Position INTERNAL spinner baffles to position # 3 as shown on page 14.
8. Start truck engine.
9. Open spinner and conveyor knobs, and move ON-OFF lever to "ON" position. Spread small amount of material to determine placement of material at various spinner and conveyor speeds in this INTERNAL baffle position.
10. Positioning EXTERNAL spinner baffles in high positions will give a spread pattern that will be wider than if EXTERNAL spinner baffles are in lower positions.
11. To adjust EXTERNAL baffles, slide baffle in direction of compression spring and pivot to desired position. Allow spring to push baffle tab back into desired slot.

12. It should now be visible that various spread patterns can be obtained by placing INTERNAL and EXTERNAL spinner baffles in various positions, and by changing spinner speeds on valve. A spread pattern can be obtained which should satisfy all road surface coverage requirements.
13. It is suggested that the INTERNAL and EXTERNAL baffle positions, and the valve spinner control setting, be recorded for future use.

OPERATING SPREADER:

1. Adjust INTERNAL and EXTERNAL spinner baffles to positions previously determined to give desired spread pattern. For future use, record positions below.

SIDE HANDLE POSITION: _____

REAR HANDLE POSITION: _____

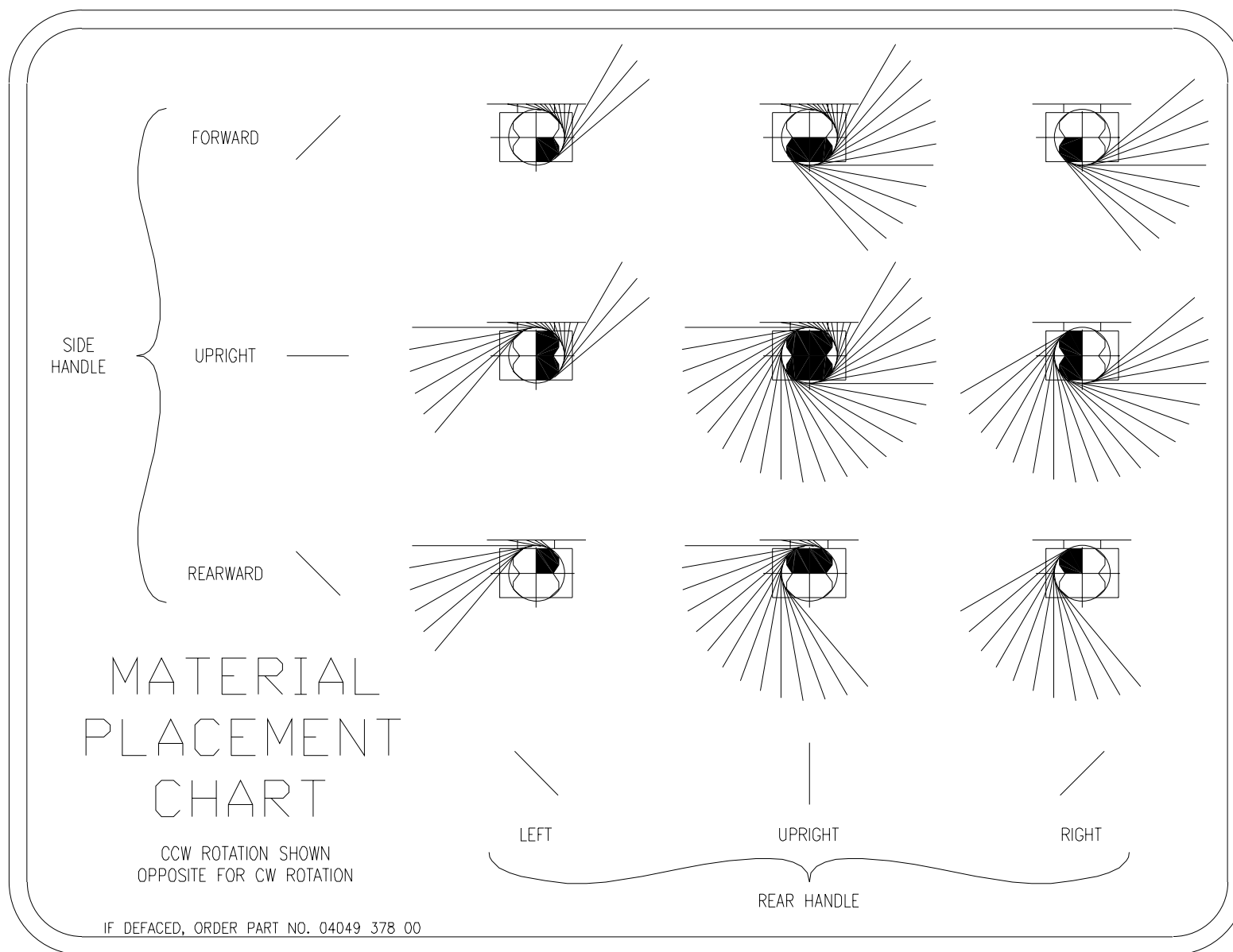
2. For operating hydraulic system, follow same procedures as for preparing spreader for use.
3. Any valve knob setting changes may be made while truck is in motion.
4. Spinner and conveyor may be stopped at the same time, without changing their valve settings, by moving ON-OFF lever to "OFF" position.



DANGER!

5. When spinner has been swung up into vertical position, vehicle must not be driven anywhere other than in vehicle and salt storage locations.

ADJUSTING INTERNAL SPINNER BAFFLES FOR DESIRED SPREAD PATTERN

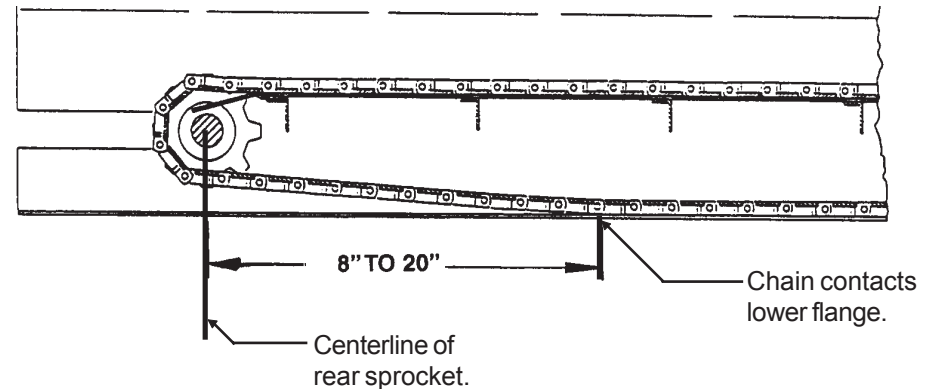


RECOMMENDED MAINTENANCE FOR MATERIAL SPREADERS

DANGER!

SERIOUS PERSONAL INJURY CAN RESULT FROM BEING CAUGHT IN AN OPERATING CONVEYOR, A TURNING SPINNER, OR OTHER OPERATING TRUCK EQUIPMENT. BEFORE PERFORMING MAINTENANCE OPERATIONS, PARK VEHICLE ON LEVEL GROUND. SET PARKING BRAKE, SHUT OFF ALL POWER, AND SHUT OFF TRUCK ENGINE. ALWAYS REPLACE SHIELDS AND COVERS WHEN MAINTENANCE IS COMPLETE.

1. Maintain a three-fourths full reservoir using high grade non-foaming hydraulic oil. (See page 5.)
2. Avoid getting contaminants in reservoir when filling.
3. Replace filter cartridge with new cartridge at least twice a year and more often if necessary. (If installed, filter condition gauge has red zone indicating when cartridge needs changing.)
4. Clean hydraulic quick disconnects before taking apart or connecting.
5. Protect hydraulic quick disconnects while in use and after taking apart with oily rag or other suitable protection.
6. Conveyor bearings require periodic greasing every 15 hours of use and more frequent greasing during periods of greater use.
7. Gearbox should be checked for proper lubrication level, and SAE 90 gear type lubricant added if necessary.
8. Grease fittings on gearboxes should be greased at same time bearings are greased. **CAUTION!** Over greasing may cause seal damage.
9. Gearbox vents, when supplied, should be kept open at all times. or damage may result to seals.
10. Drag chain slack should be checked periodically and taken up until distance between centerline of rear sprocket and point where chain contacts lower flange on longitudinal is 8 inches to 20 inches. (See below.)
11. A coating of grease on V-Box drag chain take-up bolt is recommended for easier chain adjustment.
12. Follow engine manufacturers instructions for engine maintenance recommendations.
13. Hosing down and cleaning spreader after each use, and repainting or oiling after each season will greatly prolong spreader life.
14. Spreader should be completely emptied after each use during severe cold weather to prevent conveyor from freezing. If equipment will be set outside.



HYDRAULIC TROUBLE-SHOOTING CHART

CONDITION 1

Pump cavitation recognized by excessive noise.

CAUSE

- a. Air entering system through suction lines.
- b. Suction line kinked, twisted or too long.
- c. Inadequate size suction line.
- d. Hydraulic oil too heavy.
- e. Excessive pump speed. Normal pump speed 1200 to 1500 RPM.

CORRECTION

- a. Check line from reservoir for possible leaks.
- b. Install suction line as short and straight as possible.
- c. Increase suction line size.
- d. Drain and replace with a lower viscosity non-hydraulic oil.
- e. Pump capacity is 16 GPM at 1000 RPM. Decrease PTO speed accordingly.

CONDITION 2

Slow operation of conveyor and/or spinner.

CAUSE

- a. Worn or defective pump.
- b. Worn or defective motor.
- c. Pump cavitation.
- d. Insufficient pump speed.

CORRECTION

- *a. Repair or replace pump.
- *b. Repair or replace motor.
- c. Refer to CONDITION 1.
- d. Pump capacity is 16 GPM at 1000 RPM, Increase PTO accordingly.

CONDITION 3

Erratic operation of conveyor and/or spinner.

CAUSE

- a. Low oil level in reservoir.
- b. Worn or defective motor.
- c. Dirty, worn or defective flow control valve.
- d. Plugged filter.
- e. Relief valve setting too low.
- f. Pump cavitation.
- g. Air vent on reservoir tank is blocked.

CORRECTION

- a. Fill reservoir to a 3/4 full level.
- *b. Repair or replace motor.
- *c. Clean, repair or replace flow control valve.
- d. Replace filter element and clean filter.
- e. Adjust relief valve for 1500 PSI.
- f. Refer to CONDITION 1.
- g. Clean or replace vent cap to admit atmospheric pressure to inside of tank.

CONDITION 4

Conveyor and/or spinner will not operate, or operates in wrong direction.

CAUSE

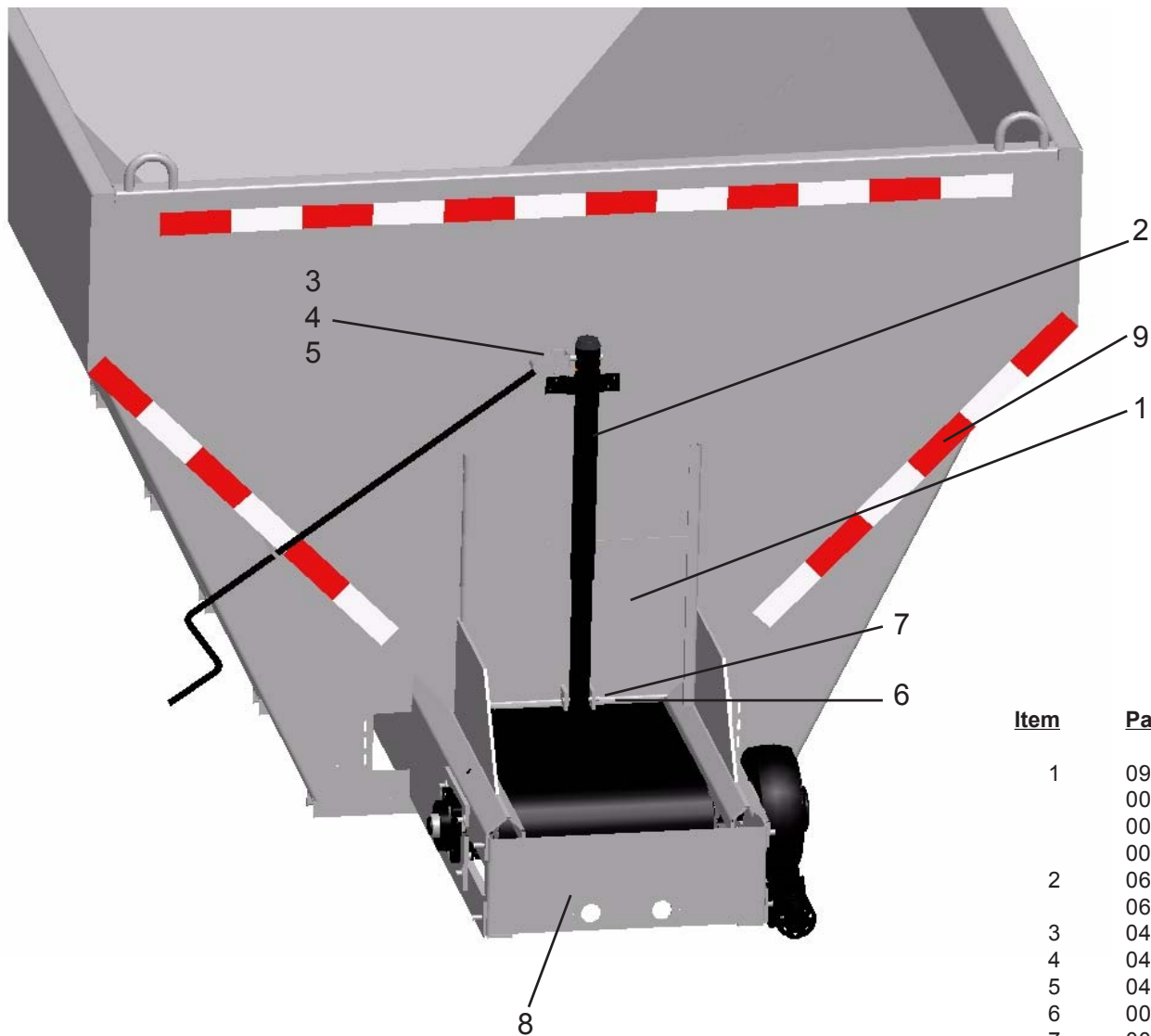
- a. Quick disconnects are dirty or damaged causing incomplete connection.
- b. Hose connections wrong, causing motors to operate in wrong direction.
- c. Foreign material in valve compensator section.

CORRECTION

- a. Clean or replace and properly connect.
- b. Refer to plumbing diagram for proper hose connections, and reconnect.
- c. Refer to illustration for proper hose connections at motor and reconnect.
- d. Remove compensator section and clean.

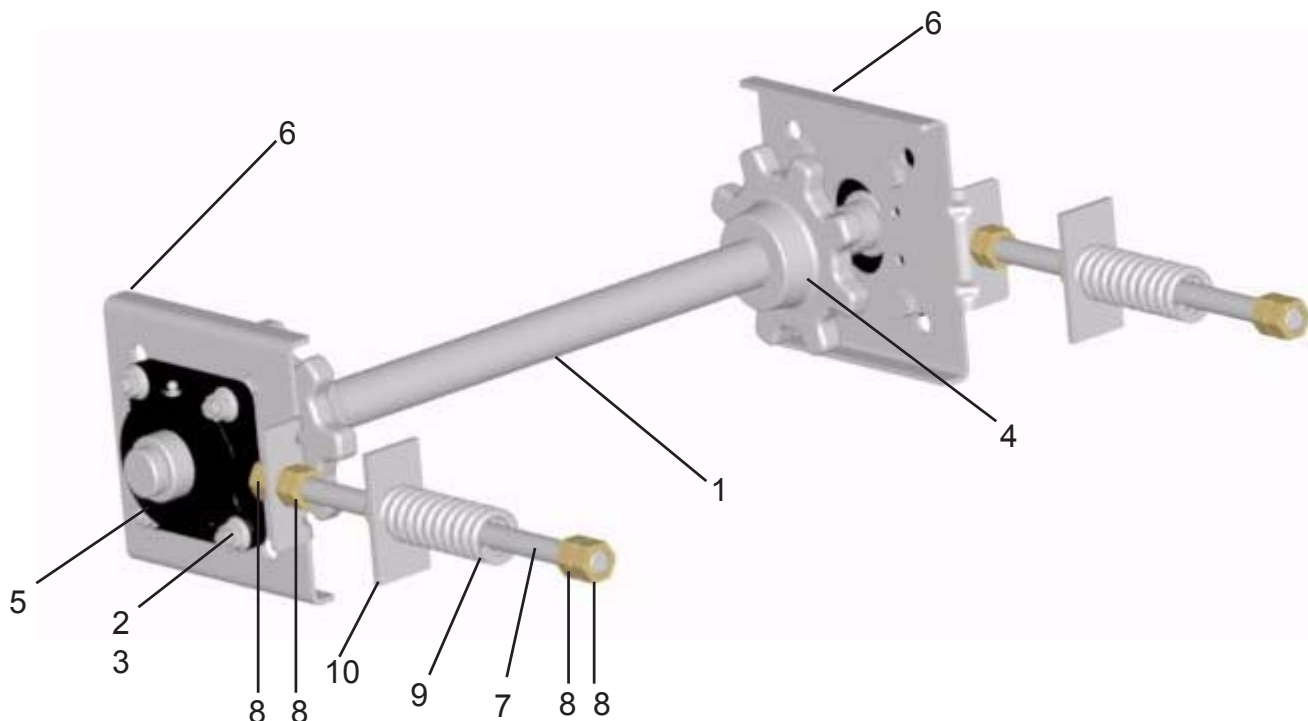
NOTE: If a motor operates in the wrong direction, reverse hose connections at motor ports (usually easier).

NOTE: *Swenson Spreader LLC warranty does not cover unauthorized disassembly of hydraulic pumps, motors, valves or electric components.



FEEDGATE ASSEMBLY

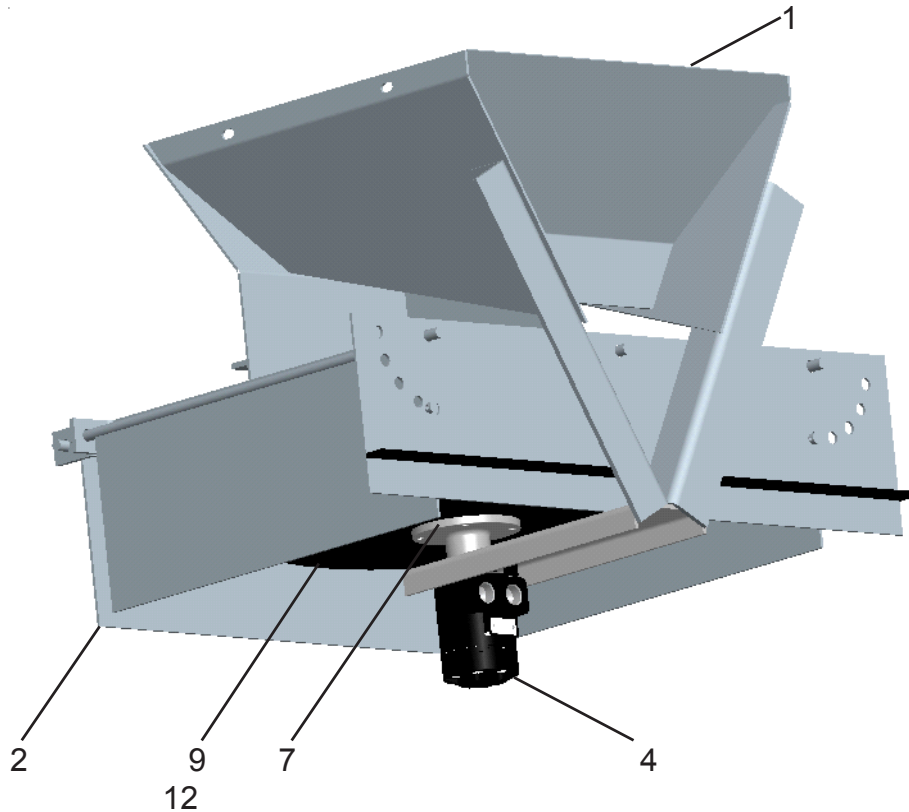
<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	09052-000-00	1	Weld, Rear Feedgate, Carbon Steel
	00107-412-00	1	Weld, Feedgate, Stainless Steel
	00105-813-00	1	Weld, Feedgate w/Sealer Carbon Steel
	00113-147-00	1	Weld, Feedgate, w/Sealer Stainless Steel
2	06016-001-00	1	Assembly, Gatejack (L.H.)
	06016-004-00	1	Assembly, Gatejack (R.H.)
3	04003-002-31	2	Bolt, 5/16"-18 X 2" HH, SS
4	04003-807-15	2	Nut, 5/16"-18 Center Lock, SS
5	04622-006-00	1	Bearing, U-Joint
6	00105-810-00	1	Belt, Wiper
7	00102-859-00	1	Hold Down Strip, CarbonSteel
	00102-859-01	1	Hold Down Strip, Stainless Steel
8	00118-123-01	1	Plate, Longitudinal Cover, Carbon Steel
	00118-123-02	1	Plate, Longitudinal Cover, Stainless Steel
9	04049-332-00	10.5'	Tape, Reflective



IDLER ASSEMBLY

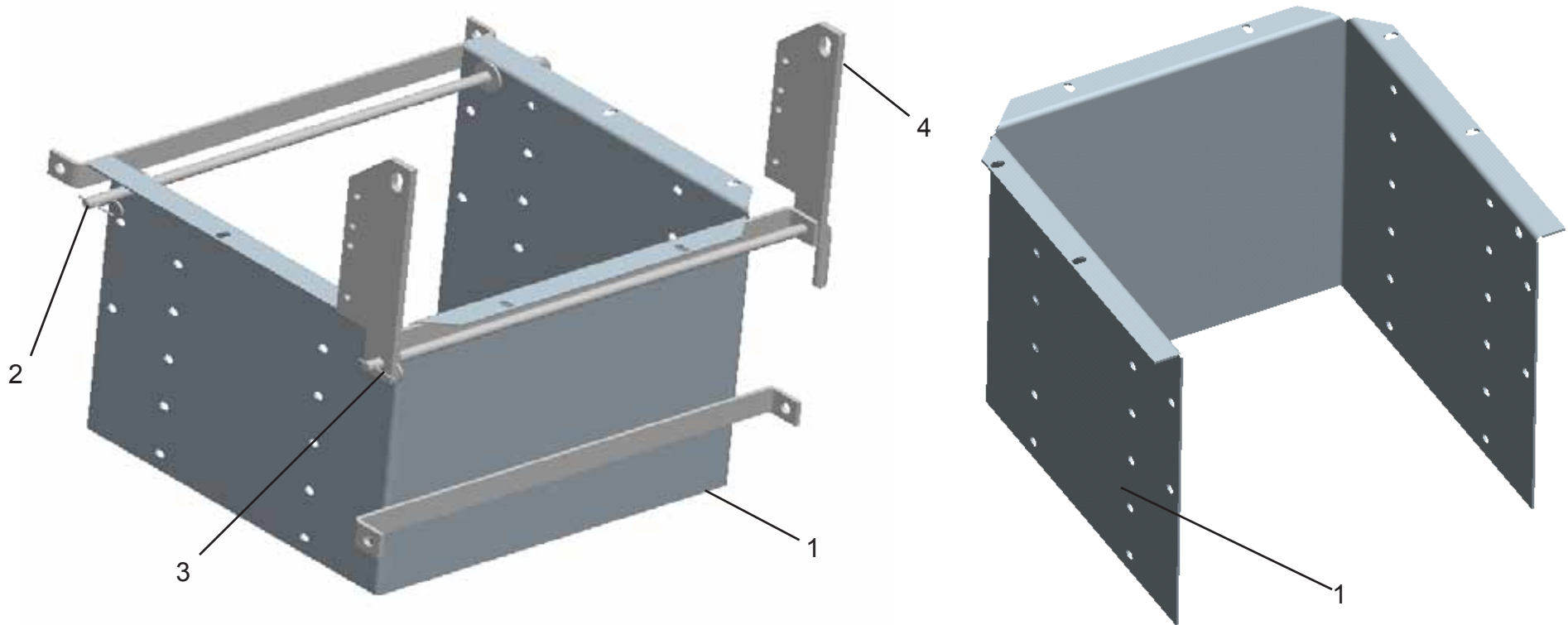
<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>	<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1A	09061-000-00	1	Weld, Shaft Idler 1 1/4" shaft only 09062-000-00	1C	00117-693-00	1	Weld, Shaft Idler 2" shaft only 00111-237-00
2A	04003-003-26	4	Bolt, 3/8-16 x 1 1/4" HH, SS	2C	04003-006-11	8	Bolt, 5/8-11 x 2", SS
3A	04003-806-12	4	Nut, 3/8"-16 Serrated Flange, SS	N/S	04004-001-15	8	Lockwasher, 5/8" Med. Split, SS
4A	06022-001-00	1	Sprocket, 6T 1 1/4" Bore	3C	04003-801-22	8	Nut, 5/8"-11 Hex SS
5A	04080-005-00	2	Bearing, 1 1/4"	4C	04042-031-00	1	Sprocket, 8T 2" Bore
1B	00117-692-00	1	Weld, Shaft Idler 1 1/2" shaft only 00117-690-00	5C	04080-059-00	2	Bearing, 2"
2B	04003-005-24	8	Bolt 1/2-13 X 1 1/2" HH, SS	6	50001-003-00	2	Bearing Plate
3B	04003-806-16	8	Nut, 1/2"-13 Serrated Flange, SS	7	00102-290-01	2	Take-up Screw, SS
4B	04042-030-00	1	Sprocket, 8T 1 1/2" Bore	8	04003-802-10	8	Nut, 3/4"-10 Hex Jam, SS
5B	04080-047-00	2	Bearing, 1 1/2"	9	04091-023-00	2	Compression Spring
N/S = Not Shown				10	00111-713-01	2	Weld, Take-Up Plate, SS

PARTS LIST FOR EV SPINNER (00001-935-01)



<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00105-373-00	1	Weldment, EV Spinner, Carbon Steel
	00106-381-00	1	Weldment, EV Spinner, Stainless Steel
2	00105-337-00	3	Weldment, Baffle, Carbon Steel
	00106-393-00	3	Weldment, Baffle, Stainless Steel
N/S	04011-001-02	3	Hairpin Keeper
4	04101-035-00	1	Motor, Hydraulic
N/S	04101-102-02	1	Flange, Mounting (4-Bolt) (Char-Lynn Only)
N/S	04101-102-09	1	Seal Kit (Char-Lynn)
N/S	04101-035-98	1	Seal Kit (White)
N/S	04003-003-01	8	Bolt, 3/8"-16 X 3/4" H.H. Gr. 5 ZP
N/S	04004-001-07	8	Lockwasher, 3/8" Med. Split, ZP
N/S	06018-000-00	1	Sub-Assembly, Spinner Disc (Includes: Item 7,8, 9,10,11 & 12)
7	06012-003-00	1	Spinner, Hub
8 N/S	04003-806-01	16	Nut, 5/16" Serrated Flange, ZP
9	06008-000-00	1	Spinner Disc
	04622-002-00	1	Disc Only, Poly Spinner (18")
	04622-007-00	1	Disc Only, Poly Spinner (20")
10 N/S	04003-002-04	4	Bolt, 5/16"-18 X 1" H.H. Gr. 5, ZP
11 N/S	04003-002-02	12	Bolt, 5/16"-18 X 3/4" H. H. Gr. 5, ZP
12	06009-008-6	6	Spinner Flite
N/S	00105-479-00		Sub-Assembly, Polyurethane Spinner (18") (Includes: Spinner Disc w/Flite, Hub, and Hardware.)
N/S	04004-001-05	1	Lockwasher, 1/4" Med. Split, ZP
N/S	04003-001-11	1	Bolt, 1/4"-20 x 3/4" H.H., SS
	04003-002-24	1	Bolt, 5/16"-18 X 1" H.H., SS
N/S	00105-343-00	1	Extension, Spinner
N/S	04049-044-00	1	Danger, Decal Spinner
N/S	04004-002-08	4	Flatwasher, 3/8", ZP
N/S	04003-801-09	4	Nut, 3/8" Hex, ZP

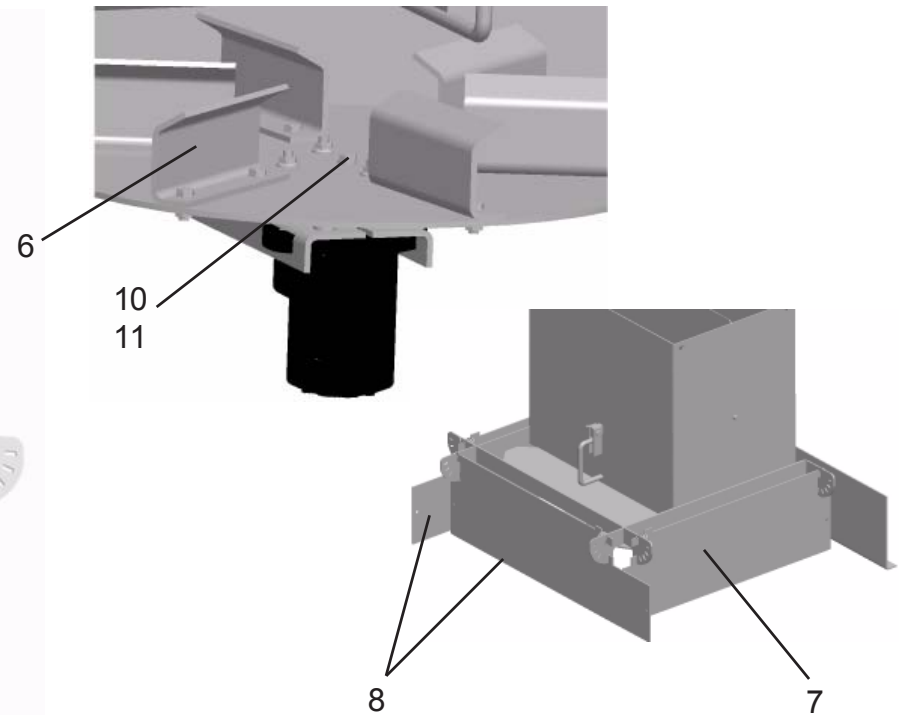
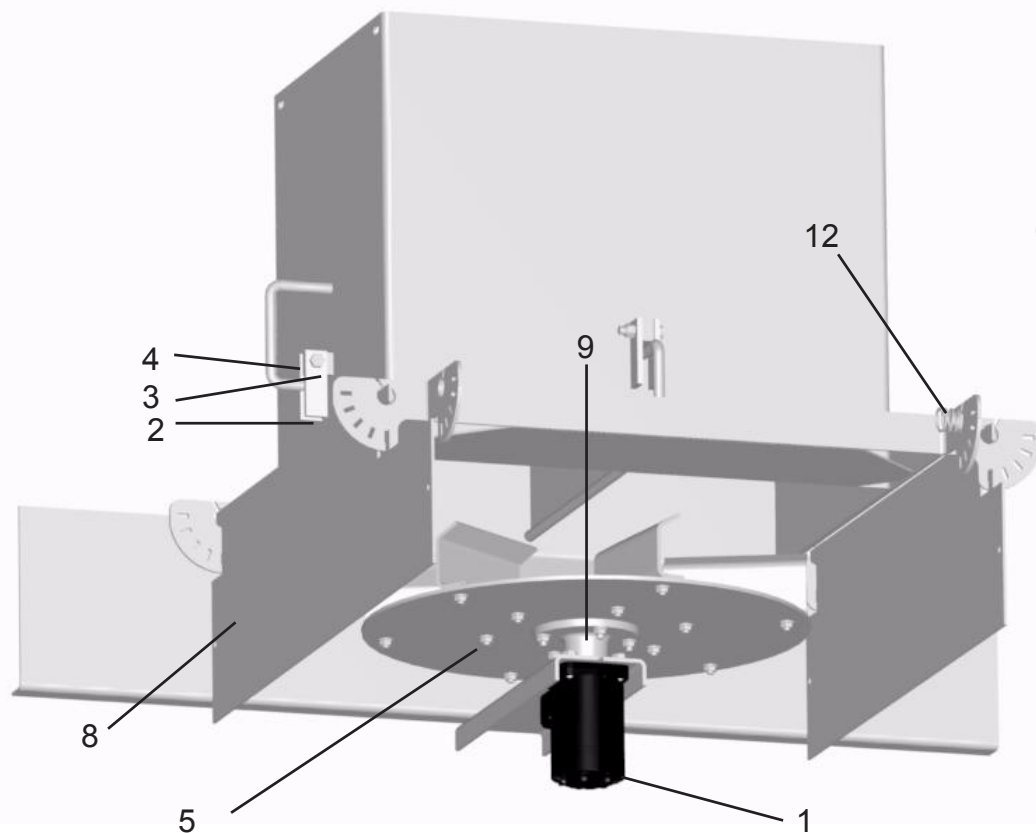
N/S = Not Shown



SPINNER EXTENSIONS

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00105-399-00	1	Weldment, Extension, CS
	00108-942-00	1	Weldment, Extension, SS
2	00105-394-00	2	Hinged, Rod, CS
	00105-394-01	2	Hinged, Rod, SS
3	04011-001-02	2	Hairpin Keeper, CS
	04011-001-04	2	Hairpin, Keeper, SS
4	00118-125-01	2	Bracket, Spinner, CS
	00118-125-02	2	Bracket, Spinner, Ss
5	04049-044-00	1	Decal, Danger

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00001-962-01		Package, Spinner Extension, Carbon Steel
	00001-962-02		Package, Spinner Extension, Stainless Steel
	00001-962-61		Package, Spinner Swing-Up Extension, CS
	00001-962-62		Package, Spinner Swing-Up Extension, SS



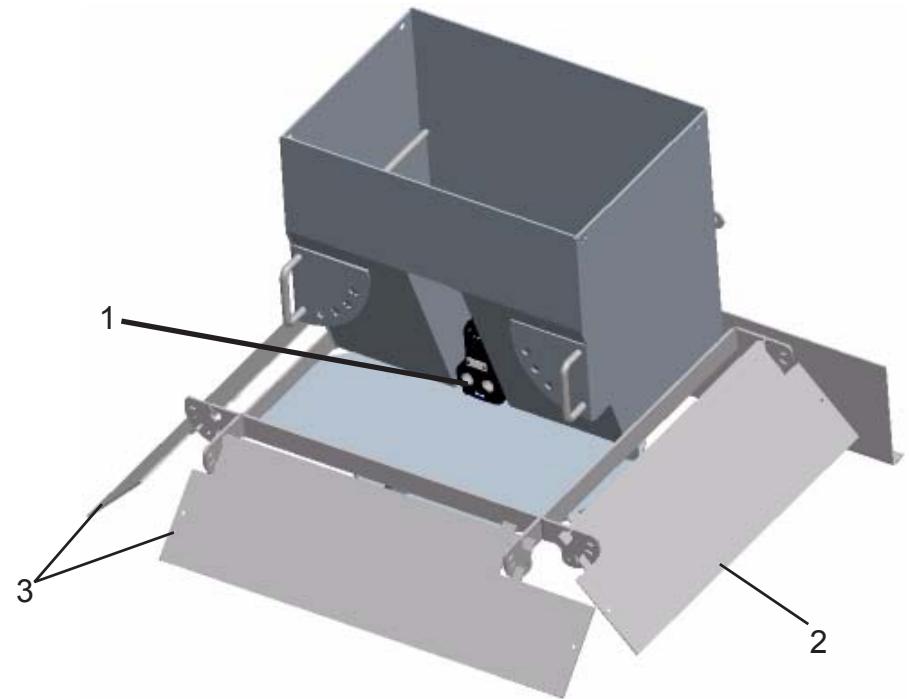
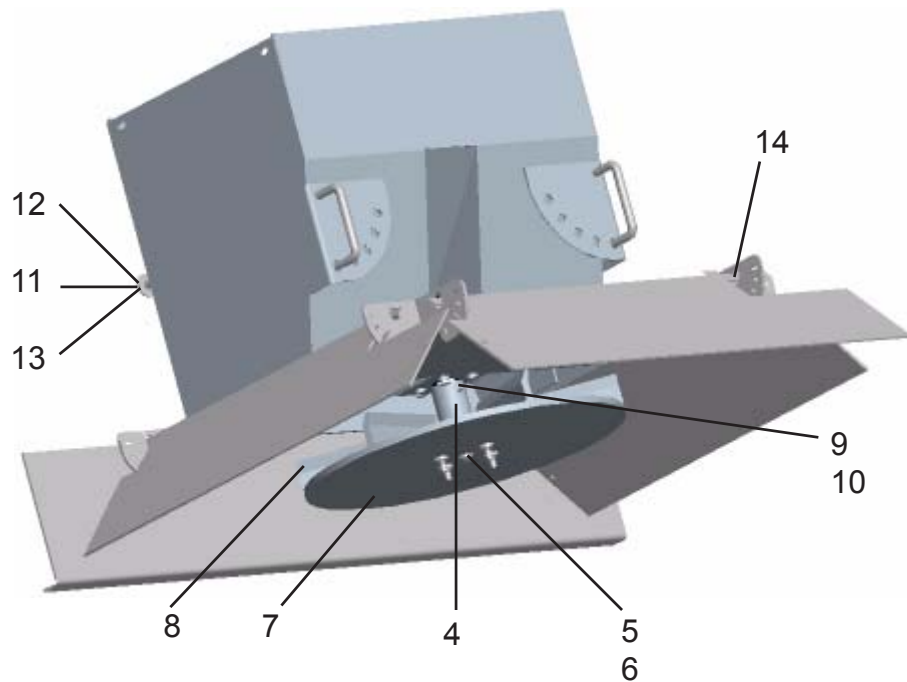
SPINNER ASSEMBLY BOTTOM MOUNTED

(00118-102XXX)

Item	Part Number	Qty.	Description
1	04101-035-00	1	Motor, Hydraulic, 2.8 Cubic Inch
	04101-039-00	1	Motor, Hydraulic, 4.2 Cubic Inch
	04101-117-00	1	Motor, Hydraulic Cross Hole
	04101-167-00	1	Motor, 7/8-14 Port
2	00104-814-00	4	Lug, Hinge, Carbon Steel
	00104-814-01	4	Lug, Hinge, Stainless Steel
3	04003-003-57	2	Bolt, 3/8"-16 x 1 3/4" HH, SS
4	04003-804-08	2	Locknut, 3/8"-16 Nylon Insert, SS

Item	Part Number	Qty	Description
5	00109-447-00	1	Disc, Spinner 20", Carbon Steel
	00109-074-00	1	Disc, Spinner 20", Stainless Steel
	04622-007-00	1	Disc, Spinner 20", Poly
6	06009-008-00	6	Flite, Spinner, Carbon Steel
	06009-009-00	6	Flite, Spinner, Stainless Steel
7	00118-121-01	1	Baffle, Short, Carbon Steel
	00118-121-02	1	Baffle, Short, Stainless Steel
8	00118-122-01	2	Baffle, Long, Carbon Steel
	00118-122-02	2	Baffle, Long, Stainless Steel
9	06012-003-00	1	Machining, Spinner Hub
10	04003-002-26	1	Bolt, 5/16-18 X 1 1/4" HH, SS
11	04004-001-20	1	Lockwasher, 5/16" Med. Split, SS
12	04091-040-00	3	Spring, Compression, Spinner Baffle
N/S	04004-002-25	4	Flatwasher, 5/16" U.S.S., SS (Needed on Poly Spinners only)

N/S = Not Shown

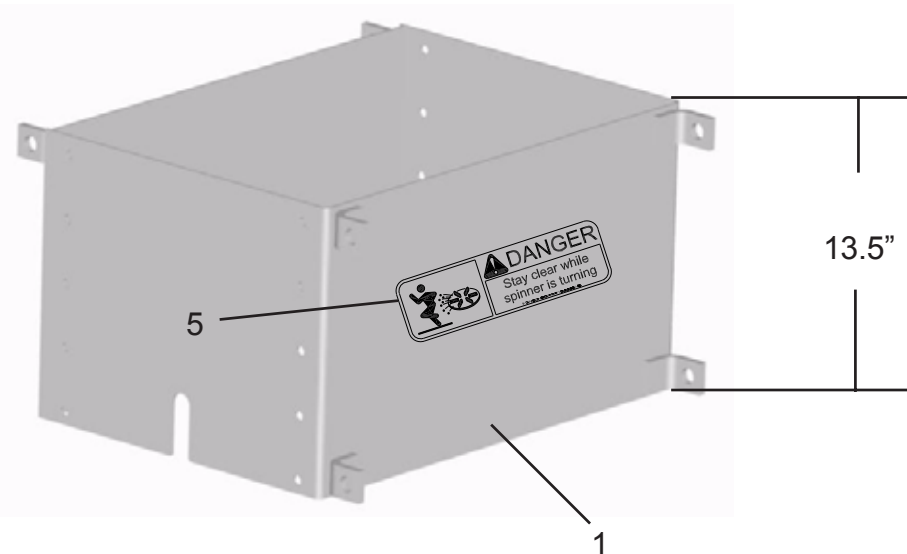


SPINNER ASSEMBLY TOP MOUNTED

(00118-101XXX)

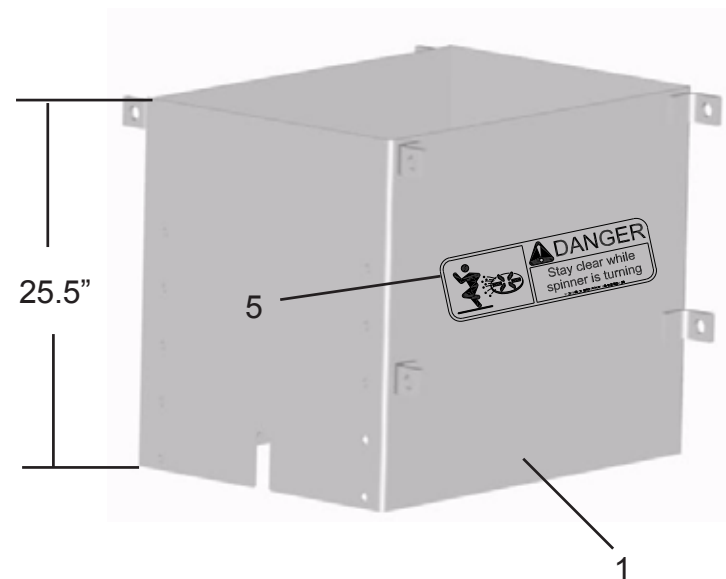
Item	Part Number	Qty.	Description
1	04101-035-00	1	Motor, Hydraulic, 2.8 Cubic Inch
	04101-039-00	1	Motor, Hydraulic, 4.2 Cubic Inch
	04101-117-00	1	Motor, Hydraulic, Cross Hole
	04101-167-00	1	Motor, 7/8-14 Port
2	00118-121-01	1	Baffle, Short, Carbon Steel
	00118-121-02	1	Baffle, Short, Stainless Steel
3	00118-122-01	2	Baffle, Long, Carbon Steel
	00118-122-02	2	Baffle, Long, Stainless Steel
4	00109-218-00	1	Weld, Spinner Hub
5	04003-002-49	1	Bolt, 5/16"-18 X 4" HH, Stainless Steel (PolyDisc)
	04003-002-48	1	Bolt, 5/16"-18 X 3 1/2" HH, Stainless Steel(Metal Disc)

Item	Part Number	Qty.	Description
6	04004-001-20	1	Lockwasher, 5/16" Medium Split, Stainless Steel
7	00105-505-00	1	Disc, Spinner 20" Carbon Steel
	00109-074-00	1	Disc, Spinner 20" Stainless Steel
	04622-007-00	1	Disc, Spinner 20" Poly
8	06009-008-00	6	Flite, Spinner, Carbon Steel
	06009-009-00	6	Flite, Spinner, Stainless Steel
9	06020-000-00	.83 Ft.	Wire, Safety
10	04006-008-03	1	Setscrew, 3/8" X 1" Sq. Head
11	04010-003-02	2	Pin, 1/8" X 1" Cotter
12	04091-028-00	2	Spring, Compression
13	04004-002-10	2	Flatwasher, 1/2" U.S.S., ZP
14	04091-040-00	3	Spring, Compression (In hardware bag.)
N/S	04004-002-25	5	Flatwasher, 5/16" U.S.S., SS (Needed on Poly Spinners Only)
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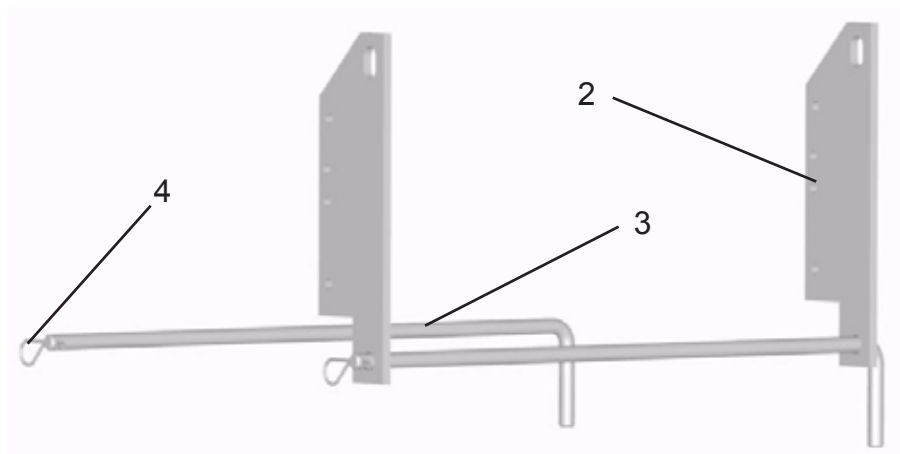
STANDARD SPINNER

(00118-103-XX)



LONG SPINNER

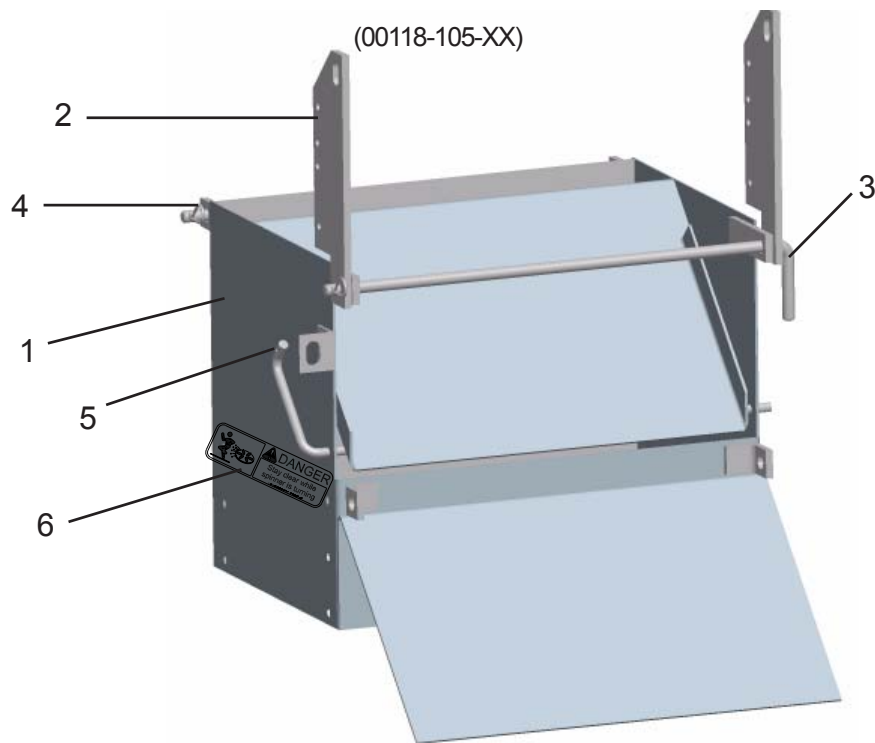
(00118-104-XX)



<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00118-129-01	1	Weld, Extension Std., 10 Ga., Carbon Steel
	00118-129-02	1	Weld, Extension Std., 10 Ga., Stainless Steel
	00118-129-03	1	Weld, Extension Std., 12 Ga., Carbon Steel
	00118-129-04	1	Weld, Extension Std., 12 Ga., Stainless Steel
1	00118-130-01	1	Weld, Extension Long, 10 Ga., Carbon Steel
	00118-130-02	1	Weld, Extension Long, 10 Ga., Stainless Steel
	00118-130-03	1	Weld, Extension Long, 12 Ga., Carbon Steel
	00118-130-04	1	Weld, Extension Long, 12 Ga., Stainless Steel
2	00118-125-01	2	Bracket, Spinner Holder, Carbon Steel
	00118-125-02	2	Bracket, Spinner Holder, Stainless Steel
3	00105-394-00	2	Rod, Hinge, Carbon Steel
	00105-394-01	2	Rod, Hinge, Stainless Steel
4	04011-001-02	2	Keeper, Hairpin Large, Carbon Steel
	04011-001-04	2	Keeper, Hairpin Large, Stainless Steel
5	04049-044-00	1	Decal, Danger Spinner

EXTENSION REAR DIVERTER

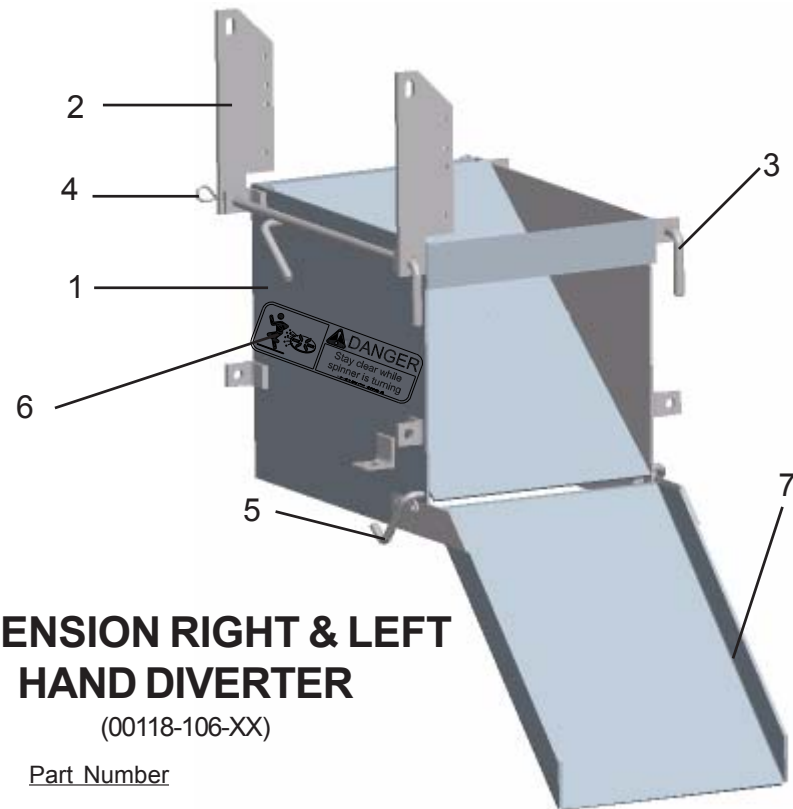
(00118-105-XX)



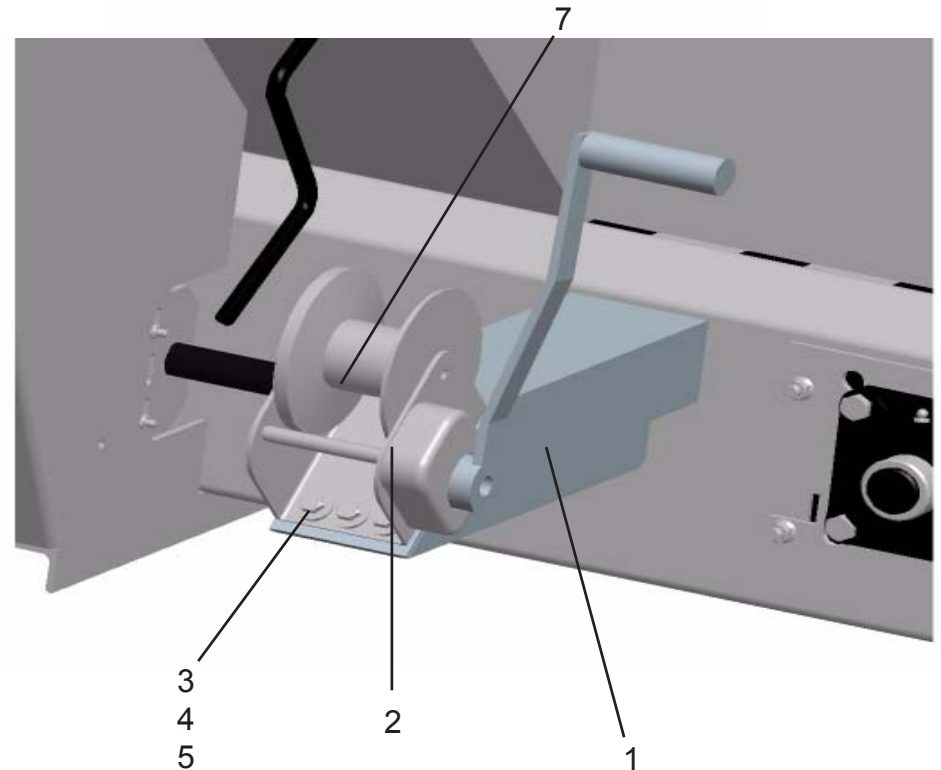
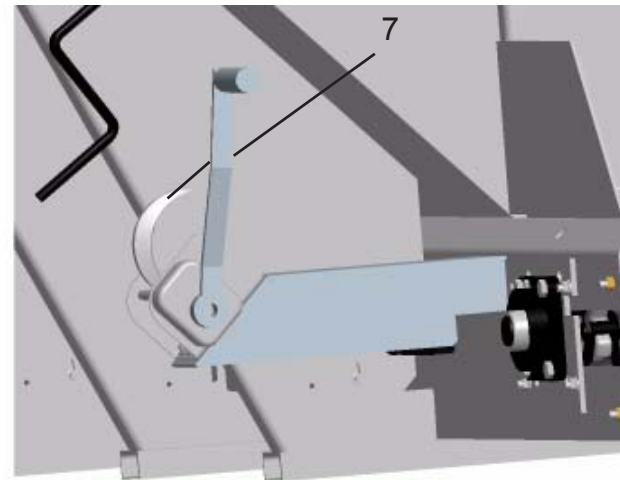
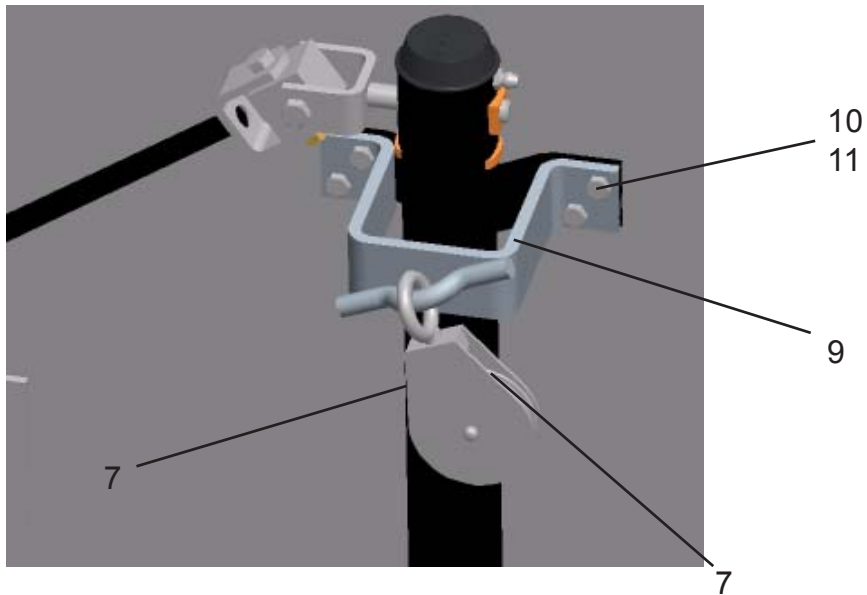
Item	Part Number	Qty	Description
1	00118-136-01	1	Weld, Extension, Rear Diverter, 10G Carbon Steel
	00118-136-02	1	Weld, Extension, Rear Diverter, 10G Stainless Steel
	00118-136-03	1	Weld, Extension, Rear Diverter, 12G Carbon Steel
	00118-136-04	1	Weld, Extension, Rear Diverter, 12G Stainless Steel
2	00118-125-01	2	Bracket, Spinner Holder, Carbon Steel
	00118-125-02	2	Bracket, Spinner Holder, Stainless Steel
3	00105-394-00	2	Rod, Hinge, Carbon
	00105-394-01	2	Rod, Hinge, Stainless Steel
4	04011-001-01	1	Keeper, Hairpin Small, Carbon
	04011-001-05	1	Keeper, Hairpin Small, Stainless Steel
5	04011-001-02	2	Keeper, Hairpin Large, Carbon
	04011-001-04	2	Keeper, Hairpin Large, Stainless Steel
6	04049-044-00	2	Decal, Danger Spinner

EXTENSION RIGHT & LEFT HAND DIVERTER

(00118-106-XX)



Item	Part Number		Description
1	00118-140-01	1	Weld, Extension, Side Diverter, 10G Carbon Steel
	00118-140-02	1	Weld, Extension, Side Diverter, 10G Stainless Steel
	00118-140-03	1	Weld, Extension, Side Diverter, 12G Carbon Steel
	00118-140-04	1	Weld, Extension, Side Diverter, 12G Stainless Steel
2	00118-125-01	2	Bracket, Spinner Holder, Carbon Steel
	00118-125-02	2	Bracket, Spinner Holder, Stainless Steel
3	00105-394-00	2	Rod, Hinge Carbon
	00105-394-01	2	Rod, Hinge, Stainless Steel
4	04011-001-01	2	Keeper, Hairpin Small, Carbon
	04011-001-05	2	Keeper, Hairpin Small, Stainless
5	04011-001-02	2	Keeper, Hairpin Large, Carbon
	04011-001-04	2	Keeper, Hairpin Large, Stainless Steel
6	04049-044-00	2	Decal, Danger Spinner
7	00118-171-01	1	Assy, Chute Spinner Extension - Side, Carbon
	00118-171-02	1	Assy, Chute Spinner Extension - Side, Stainless Steel

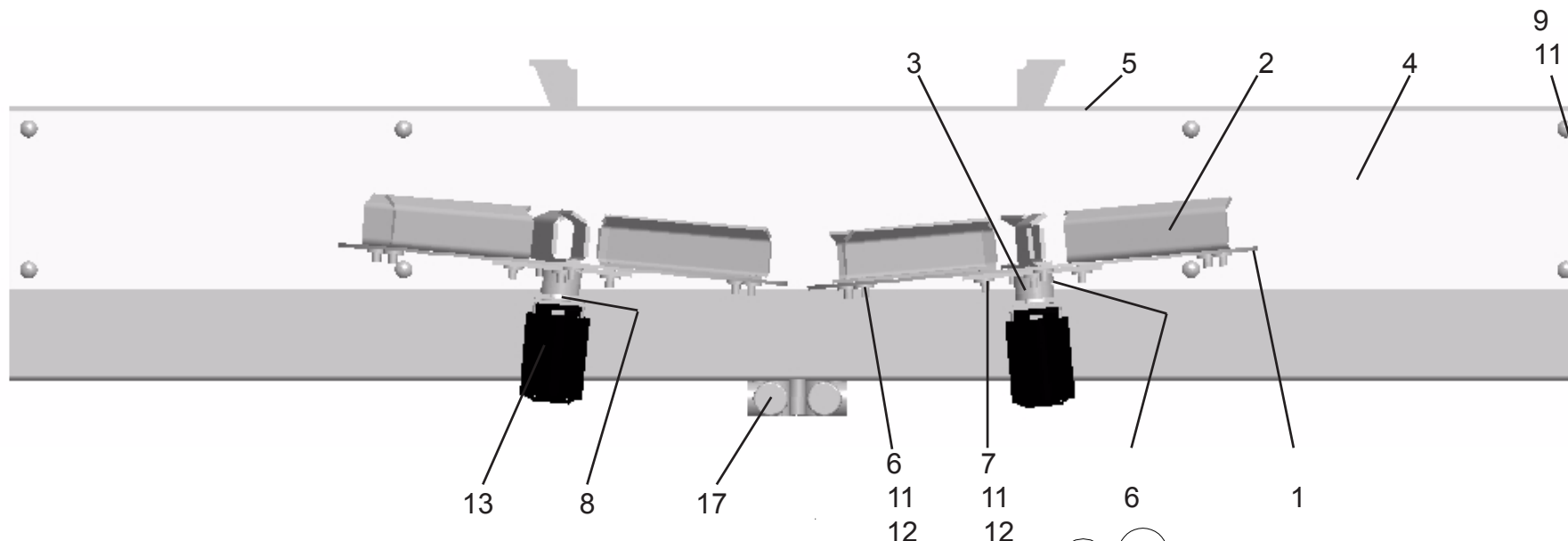


WINCH ASSEMBLY

(00112-631-00)

Item	Part Number	Qty.	Description
1	00111-422-01	1	Weld, Winch Mounting Bracket, SS
2	04089-009-00	1	Winch
3	04003-003-03	4	Bolt, 3/8"-16 X 1" HH GR5, ZP
4	04003-807-16	4	Locknut, 3/8"
5	04004-002-08	4	Flatwasher, 3/8"
N/S	00119-550-00	1	Add-On, Winch Spinner
7	00112-653-00	1	Add-on, Cable Assembly
N/S	04067-027-00	20 Ft.	Wire Rope
N/S	04067-029-00	1	Thimble
N/S	04067-030-00	3	Clip, Wire Rope
N/S	04067-034-00	1	Hook Snap
N/S	04003-030-01	2	Bolt, #10-24 X 3/4" Carriage Standard, ZP
9	00114-936-00	1	Weld, Pulley
10	04003-001-05	4	Bolt 1/4"-20 X 1" HH GR5, ZP
11	04003-806-05	4	Nut, 1/4"-20 Serrated Flange, ZP

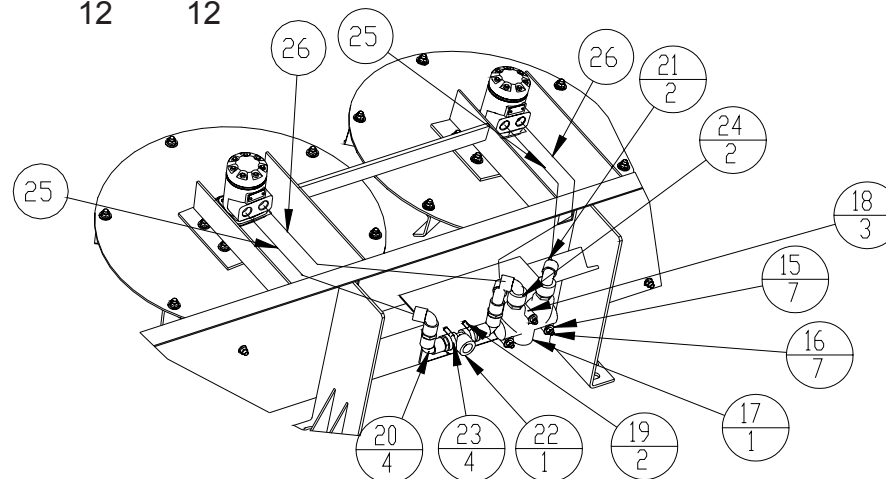
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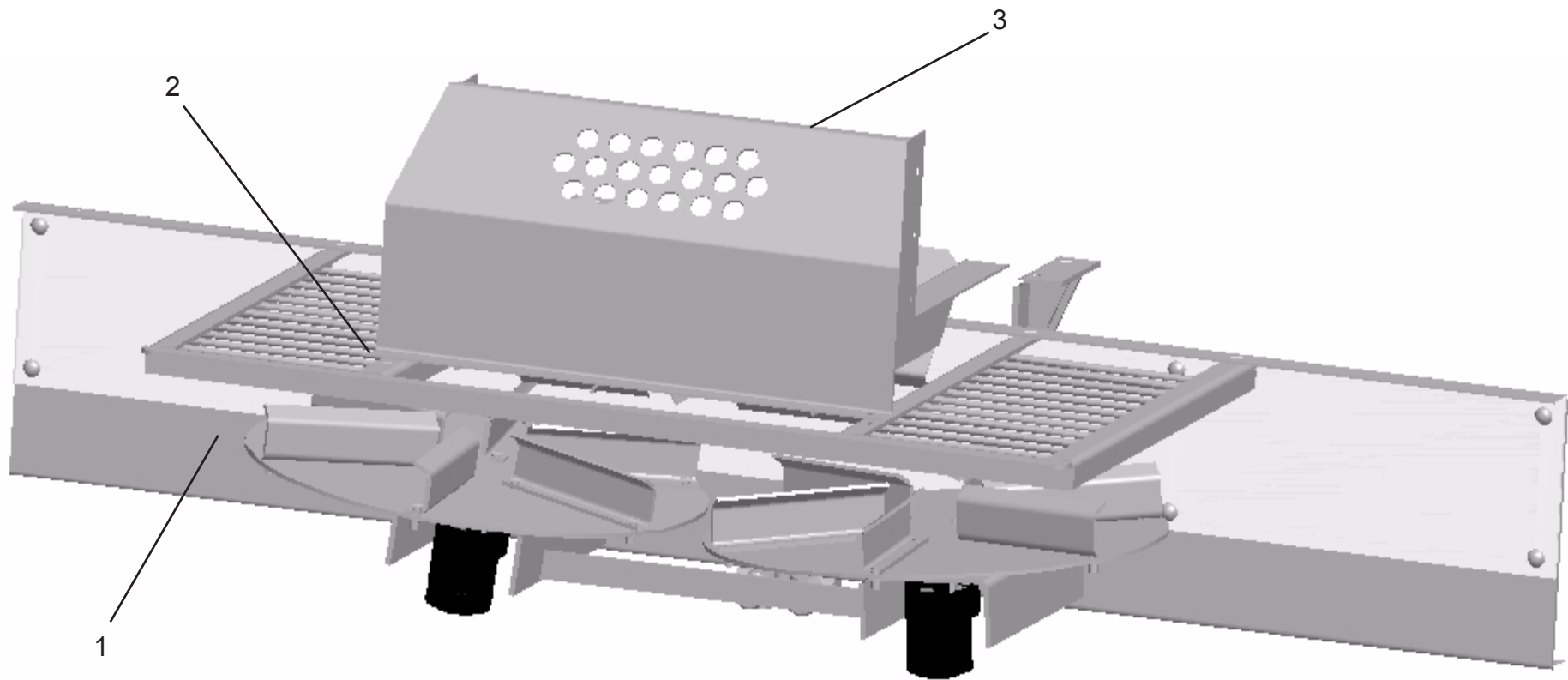
AIRPORT SPINNER ASSEMBLY

(00118-176-00)

Item	Part Number	Qty.	Description
1	00102-905-01	2	Disc, Spinner, S3, 24"
2	00102-906-00	12	Flite, Spinner
3	00105-573-00	2	Weld, Spinner Hub
4	00109-475-00	1	Shield, Anti-Wear
5	00110-685-00	1	Weld, Deflector/Motor Mounting
6	04003-003-36	14	Bolt, 3/8"-16 X 1" HH GR 8, ZP
7	04003-003-37	12	Bolt, 3/8"-16 X 1 1/4" HH GR 8, ZP
8	04003-003-24	8	Bolt, 3/8"-16 X 3/4" HH, SS
9	04003-033-03	8	Bolt, 3/8"-16 X 1" Carriage, SS
11	04003-806-12	32	Nut, 3/8"-16 Serrated Flange, SS
12	04004-002-20	24	Flatwasher, 3/8" U.S.S., SS
13	04101-035-00	2	Motor, Hudraulic (AA)
N/S	04540-007-00	1	Anti-Seize, 1/4 oz. Tube
15	04004-002-25	7	Flatwasher, 5/16" U.S.S., SS
16	04003-804-20	7	Locknut, 5/16"-18 Nylon Insert, SS
17	04105-271-00	1	Divider, Flow
18	04003-002-32	3	Bolt, 5/16"-18 X 2 1/2" HH, SS
19	04048-510-06	2	U-Bolt, 5/16" xc 1 3/8", SS
20	04110-004-04	4	Elbow, 1/2" 90 Degree



Item	Part Number	Qty.	Description
21	04110-008-04	2	Elbow, 3/4" X 1/2" Reducing
22	04110-011-01	1	Tee, 1/2" X 1/2" X 3/4"
23	04110-027-01	4	Nipple, 1/2" Close
24	04110-028-01	2	Nipple, 3/4" Close
25	04120-030-05	2	Hose, 1/2" X 19" (2) Wire
26	04120-030-06	2	Hose, 1/2" X 24" (2) Wire

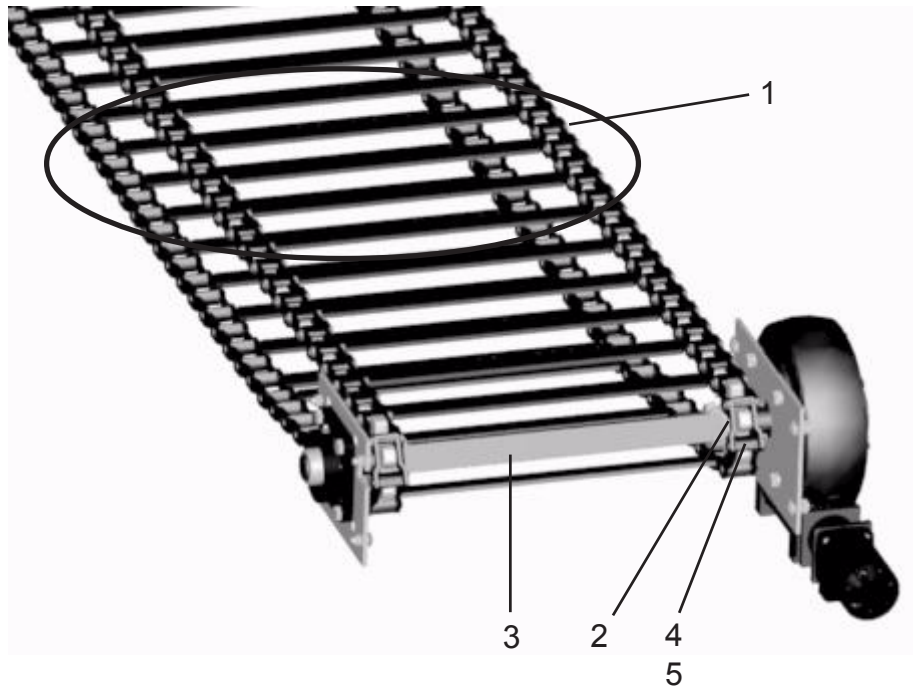


AIRPORT SPINNER ASSEMBLY

(00105-490-16)

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00118-176-00	1	Airport Spinner Assemblhy
2	00118-175-00	1	Weld, Spinner Guard
3	00110-687-00	1	Weld, Spinner Chute
N/S	00118-178-00	1	Hardware Bag

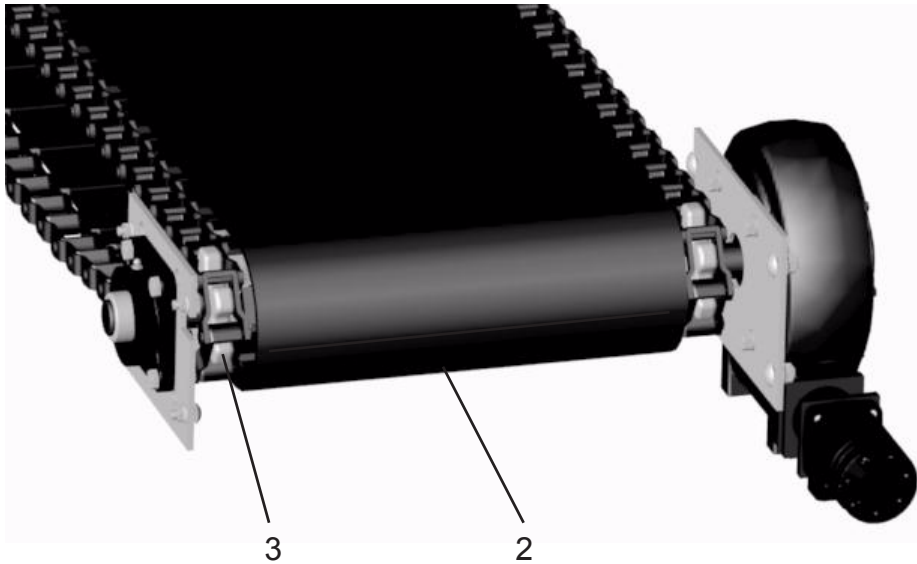
DRAG CHAIN ASSEMBLY



<u>Item</u>	<u>Assy. Number</u>	<u>Qty.</u>	<u>Description</u>
<u>6 TOOTH</u>			
1	04045-390-01	1	Weld, Drag Chain, 7 Ft.
	04045-390-02	1	Weld, Drag Chain, 8 Ft.
	04045-390-03	1	Weld, Drag Chain, 9 Ft.
	04045-390-04	1	Weld, Drag Chain, 10 Ft.
	04045-390-05	1	Weld, Drag Chain, 11 Ft.
	04045-390-06	1	Weld, Drag Chain, 12 Ft.
	04045-390-07	1	Weld, Drag Chain, 13 Ft.
	04045-390-08	1	Weld, Drag Chain, 14 Ft.
	04045-390-09	1	Weld, Drag Chain, 15 Ft.
	04045-390-10	1	Weld, Drag Chain, 16 Ft.
	04045-390-11	1	Weld, Drag Chain, 17 Ft.
	04045-390-12	1	Weld, Drag Chain, 18 Ft.
	04045-390-13	1	Weld, Drag Chain, 19 Ft.
	04045-390-14	1	Weld, Drag Chain, 20 Ft.
	04045-390-15	1	Weld, Drag Chain, 21 Ft.
	04045-390-16	1	Weld, Drag Chain, 22 Ft.
<u>8 TOOTH</u>			
1	04045-215-00	1	Weld, Drag Chain, 7 Ft.
	04045-136-00	1	Weld, Drag Chain, 8 Ft.
	04045-076-00	1	Weld, Drag Chain, 9 Ft.
	04045-073-00	1	Weld, Drag Chain, 10 Ft.
	04045-137-00	1	Weld, Drag Chain, 11 Ft.
	04045-077-00	1	Weld, Drag Chain, 12 Ft.
	04045-138-00	1	Weld, Drag Chain, 13 Ft.
	04045-082-00	1	Weld, Drag Chain, 14 Ft.
	04045-139-00	1	Weld, Drag Chain, 15 Ft.
	04045-140-00	1	Weld, Drag Chain, 16 Ft.
	04045-222-11	1	Weld, Drag Chain, 17 Ft.
	04045-222-12	1	Weld, Drag Chain, 18 Ft.
	04045-222-13	1	Weld, Drag Chain, 19 Ft.
	04045-222-14	1	Weld, Drag Chain, 20 Ft.
	04045-222-15	1	Weld, Drag Chain, 21 Ft.
	04045-222-16	1	Weld, Drag Chain, 22 Ft.
2	04045-046-00		Connecting Link only,
	04045-047-00		Link, w/2 Pins & Cotters
3	04045-041-00	A/R	Drag Chain Bar, w/Links, Pins & Cotter Keys
	04045-043-00	A/R	Drag Chain Bar w/Links
4	04045-044-00	2	Pin, Master
5	04045-048-00	2	Key, Cotter

A/R = As Required

BELT OVER CHAIN ASSEMBLY



ITEM 1

ITEM 2

ITEM 3

Length Assembly No.
6 TOOTH BELT OVER CHAIN

Conveyor Belting

Conveyor Chain

7 Ft.	00102-122-10	04076-013-16	04045-070-18
8 Ft.	00102-117-00	04076-013-01	04045-070-01
9 Ft.	00102-118-00	04076-013-02	04045-070-05
10 Ft.	00102-119-00	04076-013-03	04045-070-02
11 Ft.	00102-120-00	04076-013-04	04045-070-03
12 Ft.	00102-121-00	04076-013-05	04045-070-06
13 Ft.	00102-122-00	04076-013-06	04045-070-04
14 Ft.	00102-122-02	04076-013-08	04045-070-10
15 Ft.	00102-122-03	04076-013-09	04045-070-11
16 Ft.	00102-122-01	04076-013-07	04045-070-09
17 Ft.	00102-122-04	04076-013-10	04045-070-12
18 Ft.	00102-122-05	04076-013-11	04045-070-13
19 Ft.	00102-122-06	04076-013-12	04045-070-14
20 Ft.	00102-122-07	04076-013-13	04045-070-15
21 Ft.	00102-122-08	04076-013-14	04045-070-16
22 Ft.	00102-122-09	04076-013-15	04045-070-17

ITEM 1

ITEM 2

ITEM 3

Length Assembly No.
8 TOOTH BELT OVER CHAIN

Conveyor Belting

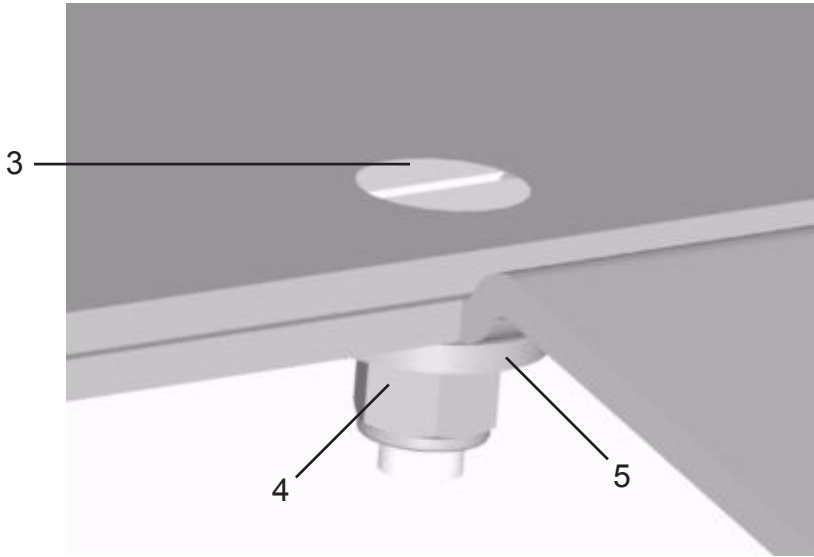
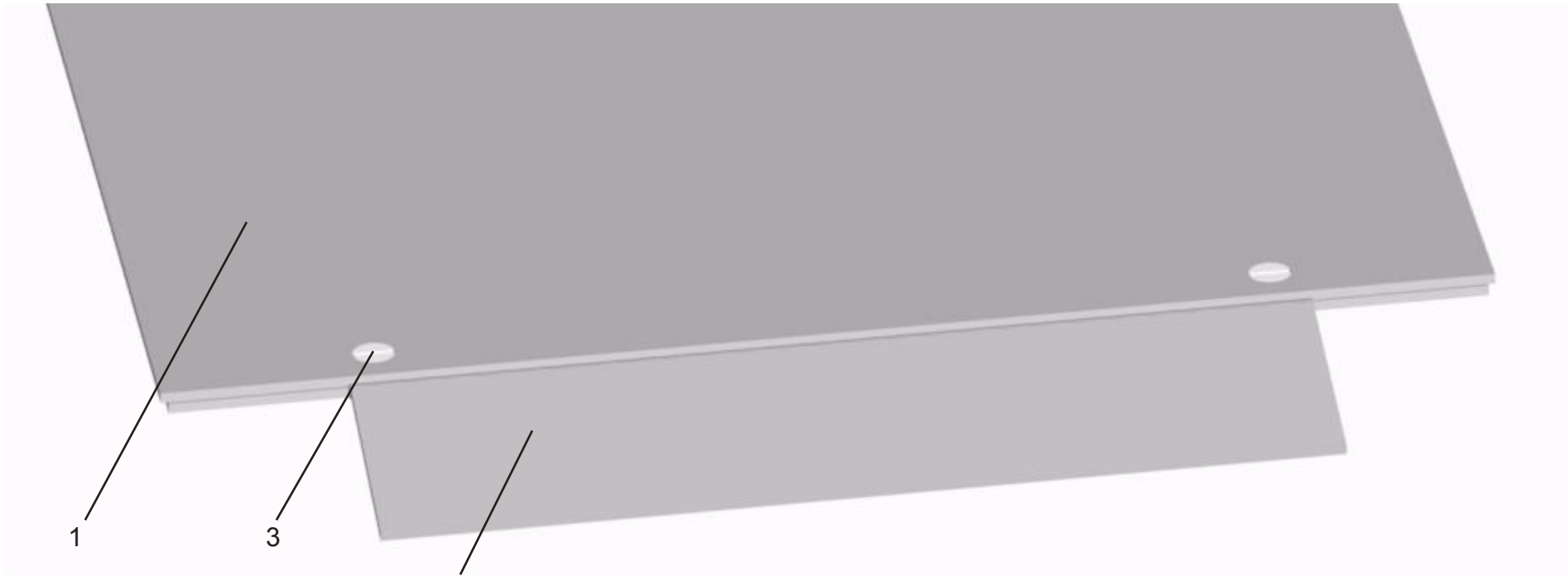
Conveyor Chain

7 Ft.	04045-275-07	04076-013-16	04045-274-07
8 Ft.	04045-275-08	04076-013-01	04045-274-08
9 Ft.	04045-275-09	04076-013-02	04045-274-09
10 Ft.	04045-275-10	04076-013-03	04045-274-10
11 Ft.	04045-275-11	04076-013-04	04045-274-11
12 Ft.	04045-275-12	04076-013-05	04045-274-12
13 Ft.	04045-275-13	04076-013-06	04045-274-13
14 Ft.	04045-275-14	04076-013-08	04045-274-14
15 Ft.	04045-275-15	04076-013-09	04045-274-15
16 Ft.	04045-275-16	04076-013-07	04045-274-16
17 Ft.	04045-275-23	04076-013-10	04045-274-23
18 Ft.	04045-275-24	04076-013-11	04045-274-24
19 Ft.	04045-275-25	04076-013-12	04045-274-25
20 Ft.	04045-275-26	04076-013-13	04045-274-26
21 Ft.	04045-275-21	04076-013-14	04045-274-21
22 Ft.	04045-275-22	04076-013-15	04045-274-22

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
N/S	00101-806-00	1	Plate, Master Link Cover
N/S	04002-311-02	A/R	Rivet, #5 x 34" Belt (Copper)
N/S	04002-062-03	A/R	Screw, 1/4" x 5/8" HWH Type F

N/S = Not Shown

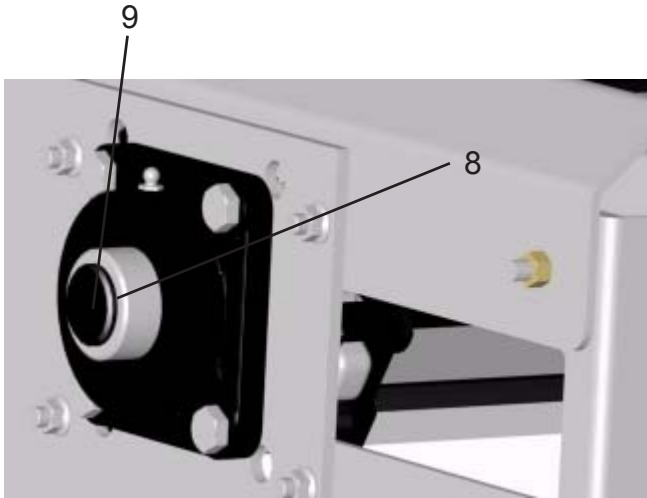
FLOOR PARTS DRAWING



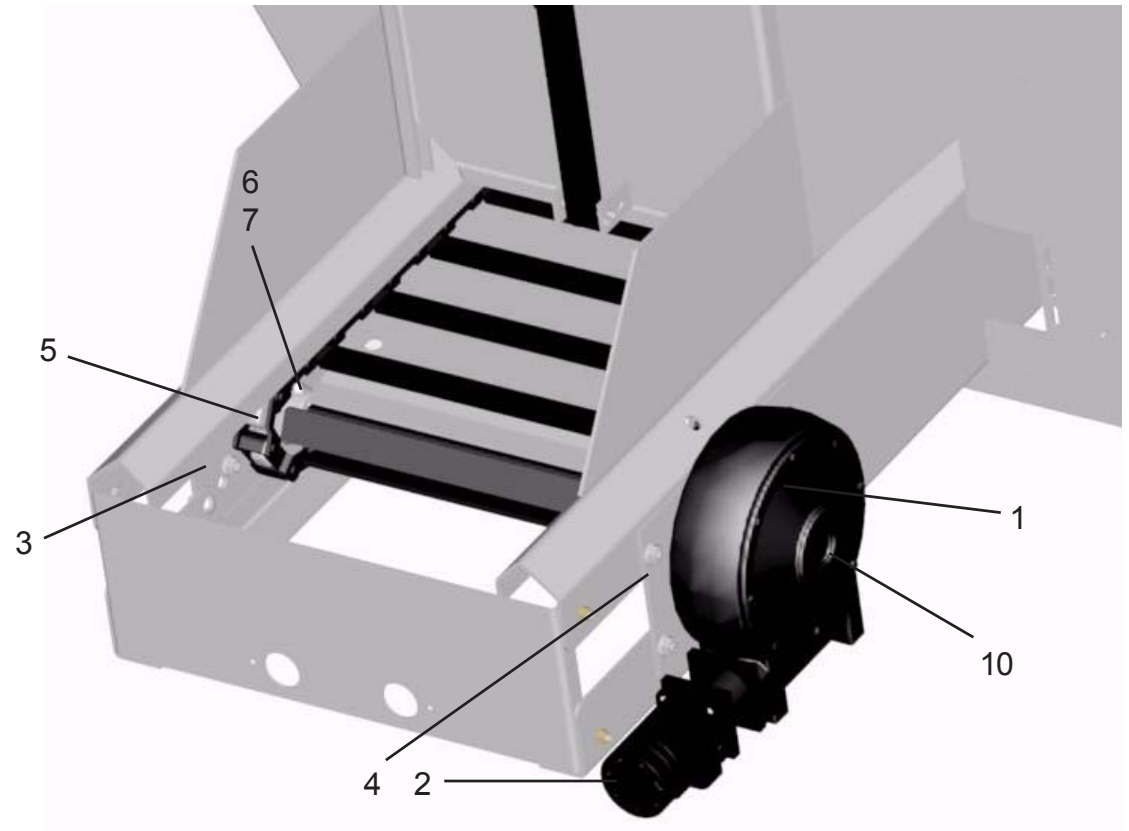
PARTS LIST FOR FLOOR

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>	<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	50001-007-01	1	Floor, 7' Carbon Steel, 7 Gauge		50001-007-81	1	Floor, 17' Carbon Steel, 7 Gauge
	50001-007-05	1	Floor, 7' Stainless Steel, 7 Gauge		50001-007-85	1	Floor, 17' Stainless Steel, 7 Gauge
	50001-007-04	1	Floor, 7' Stainless Steel, 10 Gauge		50001-007-84	1	Floor, 17' Stainless Steel, 10 Gauge
	50001-007-09	1	Floor, 8' Carbon Steel, 7 Gauge		50001-007-89	1	Floor, 18' Carbon Steel, 7 Gauge
	50001-007-13	1	Floor, 8' Stainless Steel, 7 Gauge		50001-007-93	1	Floor, 18' Stainless Steel, 7 Gauge
	50001-007-12	1	Floor, 8' Stainless Steel, 10 Gauge		50001-007-92	1	Floor, 18' Stainless Steel, 10 Gauge
	50001-007-17	1	Floor, 9' Carbon Steel, 7 Gauge		50001-007-97	1	Floor, 19' Carbon Steel, 7 Gauge
	50001-007-21	1	Floor, 9' Stainless Steel, 7 Gauge		50001-007-101	1	Floor, 19' Stainless Steel, 7 Gauge
	50001-007-20	1	Floor, 9' Stainless Steel, 10 Gauge		50001-007-100	1	Floor, 19' Stainless Steel, 10 Gauge
	50001-007-25	1	Floor, 10' Carbon Steel, 7 Gauge		50001-007-105	1	Floor, 20' Carbon Steel, 7 Gauge
	50001-007-29	1	Floor, 10' Stainless Steel, 7 Gauge		50001-007-109	1	Floor, 20' Stainless Steel, 7 Gauge
	50001-007-28	1	Floor, 10' Stainless Steel, 10 Gauge		50001-007-108	1	Floor, 20' Stainless Steel, 10 Gauge
	50007-007-33	1	Floor, 11' Carbon Steel, 7 Gauge		50001-007-113	1	Floor, 21' Carbon Steel, 7 Gauge
	50007-007-37	1	Floor, 11' Stainless Steel, 7 Gauge		50001-007-117	1	Floor, 21' Stainless Steel, 7 Gauge
	50007-007-36	1	Floor, 11' Stainless Steel, 10 Gauge		50001-007-116	1	Floor, 21' Stainless Steel, 10 Gauge
	50001-007-41	1	Floor, 12' Carbon Steel, 7 Gauge		50001-007-121	1	Floor, 22' Carbon Steel, 7 Gauge
	50001-007-45	1	Floor, 12' Stainless Steel, 7 Gauge		50001-007-125	1	Floor, 22' Stainless Steel, 7 Gauge
	50001-007-44	1	Floor, 12' Stainless Steel, 10 Gauge		50001-007-124	1	Floor, 22' Stainless Steel, 10 Gauge
	50001-007-49	1	Floor, 13' Carbon Steel, 7 Gauge	2	50001-010-01	2	Nosepiece, Carbon Steel 6 Tooth Sprocket
	50001-007-53	1	Floor, 13' Stainless Steel, 7 Gauge		50001-010-02	2	Nosepiece, Stainless Steel 6 Tooth Sprocket
	50001-007-52	1	Floor, 13' Stainless Steel, 10 Gauge		50001-010-03	2	Nosepiece, Carbon Steel 8 Tooth Sprocket
					50001-010-04	2	Nosepiece, Stainless Steel 8 Tooth Sprocket
	50001-007-57	1	Floor, 14' Carbon Steel, 7 Gauge	3	04003-018-04	4	Screw, 3/8-16 x 1 1/4" Slotted Flat Head, ZP
	50001-007-61	1	Floor, 14' Stainless Steel, 7 Gauge		04003-018-05	4	Screw, 3/8-16 x 1 1/4" Slotted Flat Head, SS
	50001-007-60	1	Floor, 14' Stainless Steel, 10 Gauge				
	50001-007-65	1	Floor, 15' Carbon Steel, 7 Gauge	4	04003-804-02	4	Locknut, 3/8"-16 Nylon Insert, ZP
	50001-007-69	1	Floor, 15' Stainless Steel, 7 Gauge		04003-804-08	4	Locknut, 3/8"-16 Nylon Insert, SS
	50001-007-68	1	Floor, 15' Stainless Steel, 10 Gauge				
	50001-007-73	1	Floor, 16' Carbon Steel, 7 Gauge	5	04004-002-08	4	Flatwasher, 3/8" U.S.S. ZP
	50001-007-77	1	Floor, 16' Stainless Steel, 7 Gauge		04004-002-20	4	Flatwasher, 3/8" U.S.S. SS
	50001-007-76	1	Floor, 16' Stainless Steel, 10 Gauge				

WORM GEARBOX ASSEMBLY



Item	Part Number	Qty.	Description
1	04132-115-00	1	Gearbox 25:1, 1 1/2" Shaft
	04132-119-00	1	Gearbox 50:1, 1 1/2" Shaft
	04132-122-00	1	Gearbox 25:1, 2" Shaft
	04132-116-00	1	Gearbox 50:1, 2" Shaft
2	04101-037-00	1	Motor 4-Bolt
	04101-101-00	1	Motor, 2-Bolt
	04101-131-00	1	Motor, w/Wether-pack Cable & Sensor
	04101-124-00	1	Motor, 4-Pin aConnector & Sensor
3	00118-046-00	1	Plate, Bearing
4	00118-047-00	1	Plate, Gearbox
5	00102-349-00	1	Machining, Sprocket, 6 tooth
	00106-656-00	1	Machining, Sprocket, 8 tooth- 1 1/2" Bore
6	04007-009-03	2	Set Screw, 3/8-16 X 3/8" Allen Head
7	04031-004-00	2	Key, 3/8" Sq. X 2" Straight
6	04007-009-05	2	Set Screw, 3/8"-16 X 1/2" Allen Head



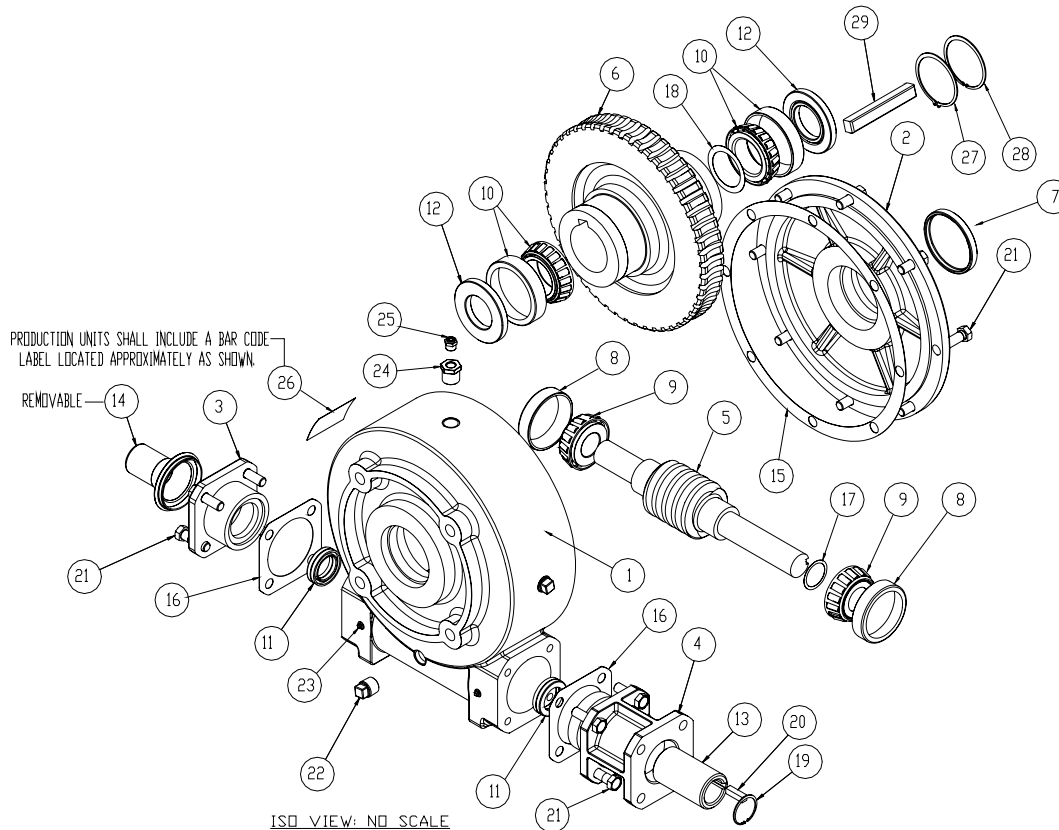
Item	Part Number	Qty.	Description
7	04031-020-00	2	Key, 1/2" Sq. X 2 1/2" Straight
8	04080-047-00	2	Bearings, 1 1/2"
	04080-059-00	2	Bearings, 2"
9	04132-125-00	1	Shaft, 1 1/2"
	04132-126-00	1	Shaft, 2"
10	04132-129-00	1	Snap Rings, Cap, & Key

GEARBOX ASSEMBLY

(04132-123-00 50:1 Hollow Bore)

(04132-124-00 25:1 Hollow Bore)

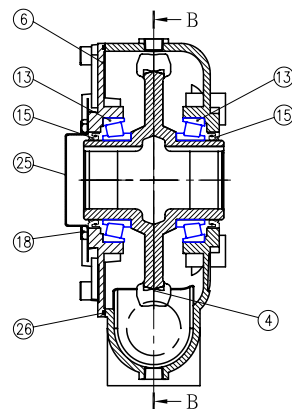
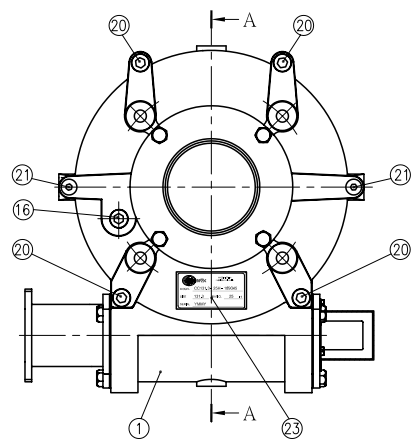
(See page 33 for Output Shafts)



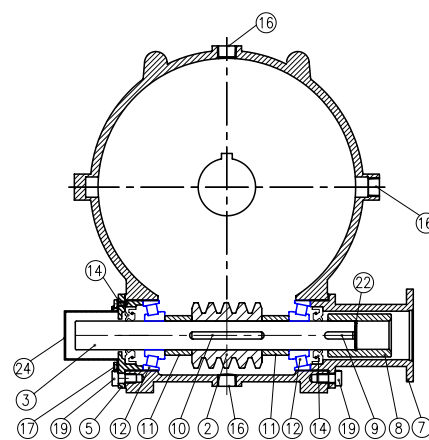
Item	Part Number	Qty.	Description
1	04132-123-01	1	Housing
2	04132-123-02	1	Cover, Output
3	04132-123-03	1	Endcap
4	04132-123-04	1	Hydraulic, Adapter
5	04132-123-05	1	Shaft, Input Worm, 50:1
	04132-124-05	1	Shaft, Input Worm, 25:1
6	04132-123-06	1	Gear, Wheel, 50:1
	04132-124-06	1	Gear, Wheel, 25:1
7	04132-123-07	1	Cover, Cap
8	04132-123-08	2	Bearing, Input Cup
9	04132-123-09	2	Bearing, Input Cone
10	04132-123-10	2	Bearing, Output Cup/Cone
11	04132-116-13	4	Seal, Input
12	04132-123-12	2	Seal, Output
13	04132-123-13	1	Coupler
14	04132-116-19	1	Guard, Shaft
15	04132-123-15	1	Gasket, Cover
16	04132-123-16	2	Gasket, Input
17	04132-116-22	A/R	Shim, Input
18	04132-123-18	A/R	Ship, Output
19	04132-119-24	1	Retaining Ring
20	04132-116-17	1	Key
21	04132-116-25	16	Bolt, 3/8"-16 X 1"
22	04132-116-26	4	Plug, 3/8"-18 NPT
23	04132-123-23	A/R	Plug, 1/8"-27 NPT
24	04132-116-27	1	Bushing, 3/8"-18 / 1/8"-27
25	04132-116-28	1	Plug, 5 PSI
26	04132-123-26	1	Label, 50:1
	04132-124-29	1	Label, 25:1
27	04132-123-27	1	Retaining Ring
28	04132-123-28	1	Retaining Ring
29	04132-129-29	1	Key
N/S	04132-113-27	A/R	Lube, EP 85W140

Z:\04132-123-00

NO	DESCRIPTION	SPECIFICATION	QTY	NO	DESCRIPTION	SPECIFICATION	QTY	NO	DESCRIPTION	SPECIFICATION	QTY
1	HOUSING		1	10	KEY	1/4"x1/4"x61.9L	1	19	SCREW BOLT	M8x16L	6
2	HOLLOW WORM		1	11	SPACER		2	20	SCREW BOLT	M10x30L	4
3	INPUT SHAFT		1	12	INPUT BEARING	15101/15245	2	21	SOCKET HEAD SCREW	M8x16L	2
4	HOLLOW WORM WHEEL		1	13	OUTPUT BEARING	30214	2	22	SNAP RING	R25	1
5	INPUT COVER(w/hole)		1	14	OIL SEAL	1"x2"x3/8"L NBR	2	23	NAME PLATE	59x31mm	1
6	OUTPUT COVER		1	15	OIL SEAL	70x85x10L NBR	2	24	PROTECTION COVER	SS41	1
7	2 BOLT FLANGE		1	16	PLUG	3/8-18NPT	4	25	PROTECTION COVER	SS41	1
8	SLEEVE COUPLING		1	17	SCREW BOLT	M4x6L	3	26	O-RING	228.27x2.62	1
9	KEY	1/4"x1/4"x25L	1	18	SCREW BOLT	M8x12L	4	27			



SECTION A-A



SECTION B-B

**RATIO 25 :1
RIGHT HAND THREAD
50 TEETH WORM GEAR
SINGLE THREAD WORM SHAFT
HORIZONTAL OUTPUT AND
UNDER DRIVEN (INPUT UNDER)**

**RATIO 50:1
RIGHT HAND THREAD
50 TEETH WORM GEAR
SINGLE THREAD WORM SHAFT
HORIZONTAL OUTPUT AND
UNDER DRIVEN (INPUT UNDER)**

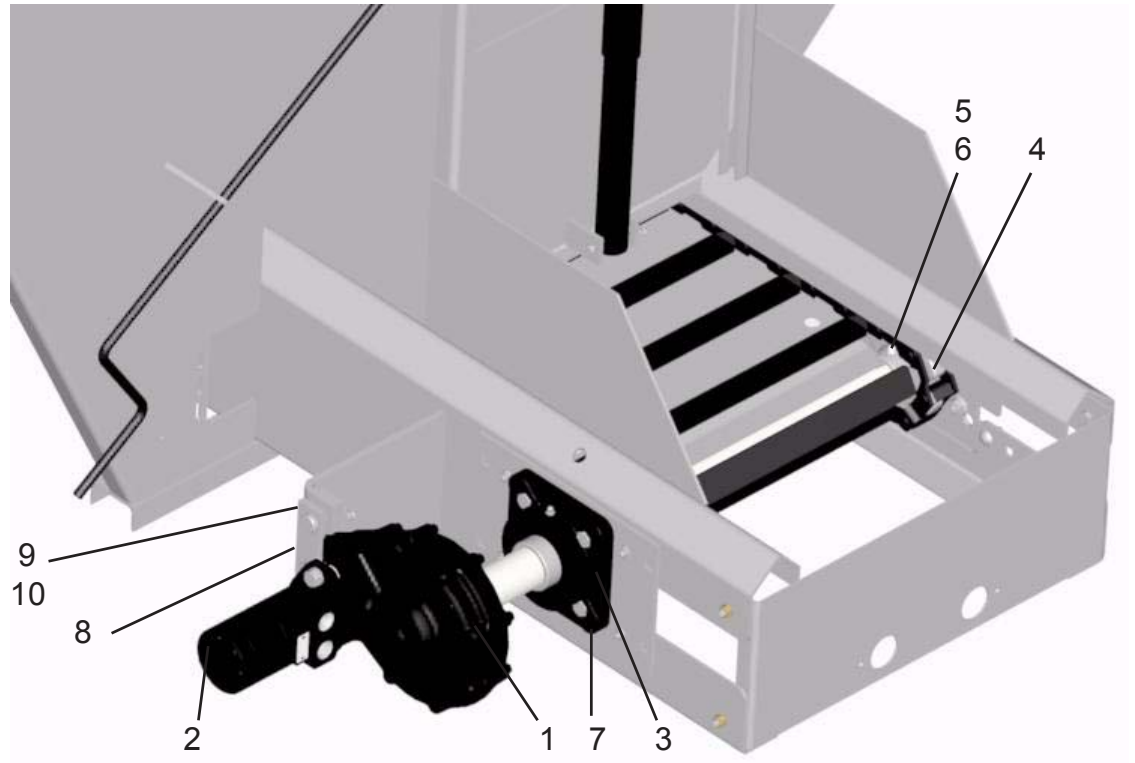


APPROBATION / APPROVAL

CIE/CO.: _____
SIGN.: _____
DATE: _____

Note: Please note ratio when service is needed.

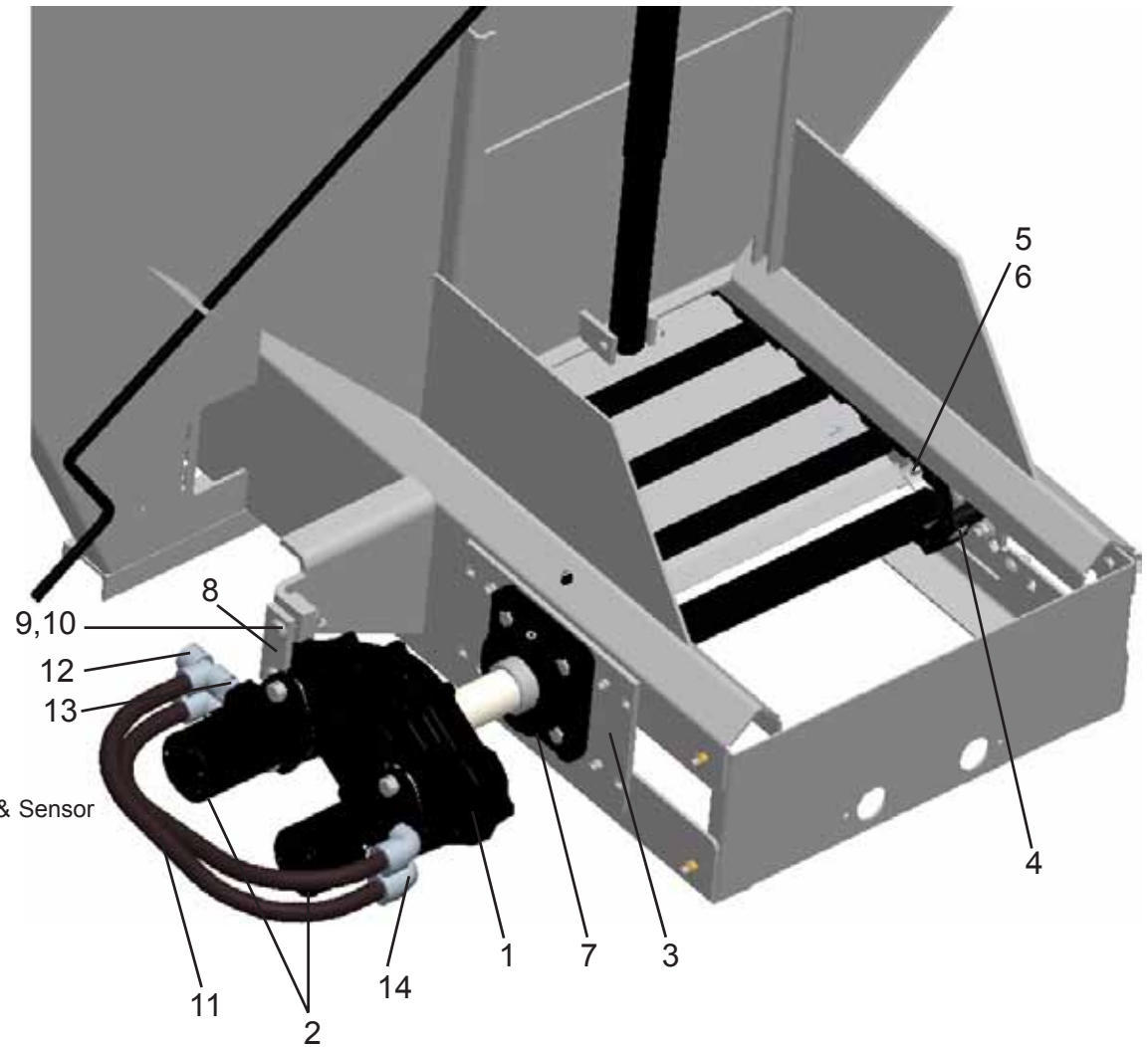
SINGLE SPUR GEARBOX ASSEMBLY



<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	04132-091-00	1	Gearbox, 6:1 Spur
2	04101-101-00	1	Motor, 2-Bolt
	04101-151-00	1	Motor, 2 Bolt w/Weather-pack Cable & Sensor
3	00118-046-00	2	Plate, Bearing
4	00103-220-00	1	Machining Sprocket, 8 tooth- 2 Bore
5	04007-009-05	2	Set Screw, 3/8"-16 x 1/2" Allen Head
6	04031-020-00	2	Keys, 1/2" Sq. X 2 1/2" Straight
7	04080-059-00	2	Bearings 2"
8	00108-953-01	2	Bar, Link, Stainless Steel
9	04014-005-01	2	Pin, 3/4" X 2" Clevis
10	04010-004-03	2	Pin, 5/32" x 1 1/4" Cotter

TWIN PINION GEAR BOX ASSEMBLY

Item	Part Number	Qty	Description
1	04132-090-00	1	Gearbox, Twin Pinion 6:1
2	04101-135-00	1	Motor, 2 Bolt
	04101-155-00	1	Motor, 2-Bolt, 4-Pin w/Sensor
	04101-170-00	1	Motor, 2-Bolt, w/Weather-pack Cable & Sensor
3	00118-046-00	2	Plate, Bearing
4	00103-220-00	1	Machining, Sprocket, 8 tooth - 2" Bore
5	04007-009-05	2	Set Screw, 3/8"-16 X 1/2" Allen Head
6	04031-020-00	2	Key, 1/2" Sq. X 2 1/2" Straight
7	04080-059-00	2	Bearing
8	00108-953-01	2	Bar, Link, Stainless Steel
9	04014-005-01	2	Pin, 3/4" x 2" Clevis
10	04010-004-03	2	Pin, 5/32" x 1 1/4" Cotter
11	04120-003-24	2	Hose, 1/2" X 28"
12	04110-011-05	2	Tee, 3/4" x 1/2" X 1/2" Reducing
13	04110-027-01	2	Nipple, 1/2" Close
14	04110-006-04	2	Elbow, 1/2" 90 Degree Street

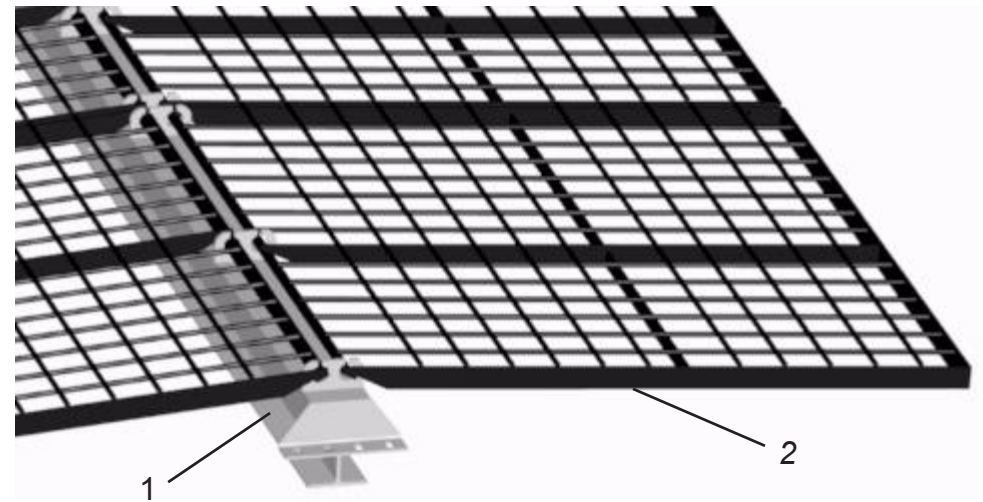


I-BEAM WELDMENTS 4" RISE

Item	Part Number	Qty.	Description
1	00117-961-00	1	Weld, I-Beam 8' x 4" Rise Carbon Steel
	00117-962-00	1	Weld, I-Beam 9' x 4" Rise Carbon Steel
	00117-963-00	1	Weld, I-Beam 10' x 4" Rise Carbon Steel
	00117-964-00	1	Weld, I-Beam 11' x 4" Rise Carbon Steel
	00117-965-00	1	Weld, I-Beam 12' x 4" Rise Carbon Steel
	00117-966-00	1	Weld, I-Beam 13' x 4" Rise Carbon Steel
	00117-967-00	1	Weld, I-Beam 14' x 4" Rise Carbon Steel
	00117-968-00	1	Weld, I-Beam 15' x 4" Rise Carbon Steel
	00117-969-00	1	Weld, I-Beam 16' x 4" Rise Carbon Steel
	00117-970-00	1	Weld, I-Beam 17' x 4" Rise Carbon Steel
	00117-856-00	1	Weld, I-Beam 18' x 4" Rise Carbon Steel
	00117-857-00	1	Weld, I-Beam 19' x 4" Rise Carbon Steel
	00117-858-00	1	Weld, I-Beam 20' x 4" Rise Carbon Steel
	00117-859-00	1	Weld, I-Beam 21' x 4" Rise Carbon Steel
	00117-860-00	1	Weld, I-Beam 22' x 4" Rise Carbon Steel

Item	Part Number	Qty.	Description
1	00117-971-00	1	Weld, I-Beam 8' x 4" Rise Stainless Steel
	00117-972-00	1	Weld, I-Beam 9' x 4" Rise Stainless Steel
	00117-973-00	1	Weld, I-Beam 10' x 4" Rise Stainless Steel
	00117-974-00	1	Weld, I-Beam 11' x 4" Rise Stainless Steel
	00117-975-00	1	Weld, I-Beam 12' x 4" Rise Stainless Steel
	00117-976-00	1	Weld, I-Beam 13' x 4" Rise Stainless Steel
	00117-977-00	1	Weld, I-Beam 14' x 4" Rise Stainless Steel
	00117-978-00	1	Weld, I-Beam 15' x 4" Rise Stainless Steel
	00117-979-00	1	Weld, I-Beam 16' x 4" Rise Stainless Steel
	00117-980-00	1	Weld, I-Beam 17' x 4" Rise Stainless Steel
	00117-861-00	1	Weld, I-Beam 18' x 4" Rise Stainless Steel
	00117-862-00	1	Weld, I-Beam 19' x 4" Rise Stainless Steel
	00117-863-00	1	Weld, I-Beam 20' x 4" Rise Stainless Steel
	00117-864-00	1	Weld, I-Beam 21' x 4" Rise Stainless Steel
	00117-865-00	1	Weld, I-Beam 22' x 4" Rise Stainless Steel

A/R - As Required



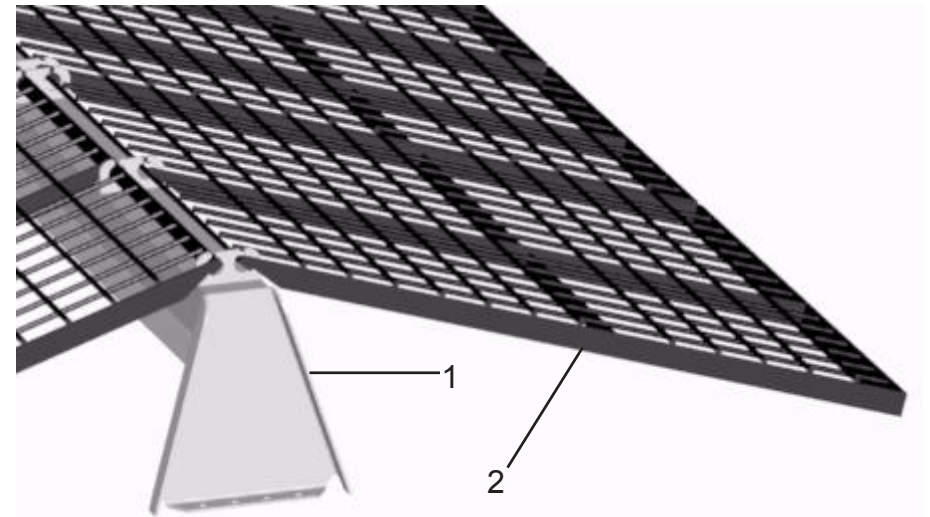
SCREEN WELDMENTS 4" RISE

(S.D. Standard Duty & H.D. Heavy Duty)

Item	Part Number	Qty.	Description
2	4" Rise		
	00117-801-00	A/R	Weld, Screen, S.D. 33.250 x 40.000 Carbon
	00117-802-00	A/R	Weld, Screen, S.D. 45.250 x 40.000 Carbon
	00117-803-00	A/R	Weld, Screen, S.D. 33.250 x 41.000 Carbon
	00117-804-00	A/R	Weld, Screen, S.D. 45.250 x 41.000 Carbon
	00117-811-00	A/R	Weld, Screen, S.D. 33.250 x 40.000 Stainless
	00117-812-00	A/R	Weld, Screen, S.D. 45.250 x 40.000 Stainless
	00117-813-00	A/R	Weld, Screen, S.D. 33.250 x 41.000 Stainless
	00117-814-00	A/R	Weld, Screen, S.D. 45.250 x 41.000 Stainless
	00117-821-00	A/R	Weld, Screen, H.D. 33.250 x 40.000 Carbon
	00117-822-00	A/R	Weld, Screen, H.D. 45.250 x 40.000 Carbon
	00117-823-00	A/R	Weld, Screen, H.D. 33.250 x 41.000 Carbon
	00117-824-00	A/R	Weld, Screen, H.D. 45.250 x 41.000 Carbon
	00117-831-00	A/R	Weld, Screen, H.D. 33.250 x 40.000 Stainless
	00117-832-00	A/R	Weld, Screen, H.D. 45.250 x 40.000 Stainless
	00117-833-00	A/R	Weld, Screen, H.D. 33.250 x 41.000 Stainless
	00117-834-00	A/R	Weld, Screen, H.D. 45.250 x 41.000 Stainless

I-BEAM WELDMENTS 14" RISE

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00117-901-00	1	Weld, I-Beam 8' x 14" Rise Carbon Steel
	00117-902-00	1	Weld, I-Beam 9' x 14" Rise Carbon Steel
	00117-903-00	1	Weld, I-Beam 10' x 14" Rise Carbon Steel
	00117-904-00	1	Weld, I-Beam 11' x 14" Rise Carbon Steel
	00117-905-00	1	Weld, I-Beam 12' x 14" Rise Carbon Steel
	00117-906-00	1	Weld, I-Beam 13' x 14" Rise Carbon Steel
	00117-907-00	1	Weld, I-Beam 14' x 14" Rise Carbon Steel
	00117-908-00	1	Weld, I-Beam 15' x 14" Rise Carbon Steel
	00117-909-00	1	Weld, I-Beam 16' x 14" Rise Carbon Steel
	00117-910-00	1	Weld, I-Beam 17' x 14" Rise Carbon Steel
	00117-911-00	1	Weld, I-Beam 18' x 14" Rise Carbon Steel
	00117-912-00	1	Weld, I-Beam 19' x 14" Rise Carbon Steel
	00117-913-00	1	Weld, I-Beam 20' x 14" Rise Carbon Steel
	00117-914-00	1	Weld, I-Beam 21' x 14" Rise Carbon Steel
	00117-915-00	1	Weld, i-Beam 22' x 14" Rise Carbon Steel



SCREEN WELDMENTS 14" RISE (S.D. Standard Duty & H.D. Heavy Duty)

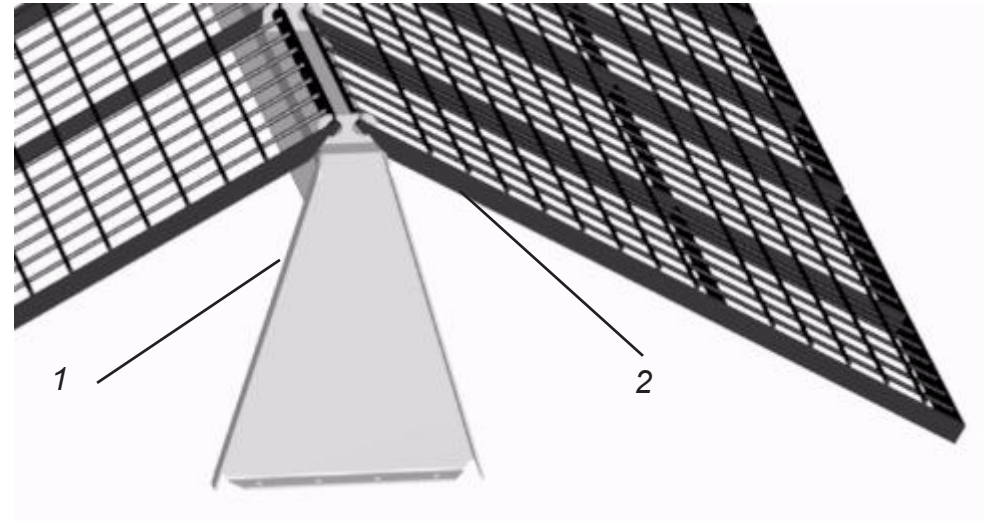
<u>Item</u>	<u>Part Number</u>	<u>Qty</u>	<u>Description</u>
1	00117-931-00	1	Weld, I-Beam 8' x 14" Rise Stainless Steel
	00117-932-00	1	Weld, I-Beam 9' x 14" Rise Stainless Steel
	00117-933-00	1	Weld, I-Beam 10' x 14" Rise Stainless Steel
	00117-934-00	1	Weld, I-Beam 11' x 14" Rise Stainless Steel
	00117-935-00	1	Weld, I-Beam 12' x 14" Rise Stainless Steel
	00117-936-00	1	Weld, I-Beam 13' x 14" Rise Stainless Steel
	00117-937-00	1	Weld, I-Beam 14' x 14" Rise Stainless Steel
	00117-938-00	1	Weld, I-Beam 15' x 14" Rise Stainless Steel
	00117-939-00	1	Weld, I-Beam 16' x 14" Rise Stainless Steel
	00117-940-00	1	Weld, I-Beam 17' x 14" Rise Stainless Steel
	00117-941-00	1	Weld, I-Beam 18' x 14" Rise Stainless Steel
	00117-942-00	1	Weld, I-Beam 19' x 14" Rise Stainless Steel
	00117-943-00	1	Weld, I-Beam 20' x 14" Rise Stainless Steel
	00117-944-00	1	Weld, I-Beam 21' x 14" Rise Stainless Steel
	00117-945-00	1	Weld, I-Beam 22' x 14" Rise Stainless Steel

<u>Item</u>	<u>Part Number</u>	<u>Qty</u>	<u>Description</u>
2	00117-803-00	A/R	Weld, Screen, S.D. 33.250 x 41.000 Carbon
	00117-804-00	A/R	Weld, Screen, S.D. 45.250 x 41.000 Carbon
	00117-805-00	A/R	Weld, Screen, S.D. 33.250 x 43.000 Carbon
	00117-806-00	A/R	Weld, Screen, S.D. 45.250 x 43.000 Carbon
	00117-813-00	A/R	Weld, Screen, S.D. 33.250 x 41.000 Stainless
	00117-814-00	A/R	Weld, Screen, S.D. 45.250 x 41.000 Stainless
	00117-815-00	A/R	Weld, Screen, S.D. 33.250 x 43.000 Stainless
	00117-816-00	A/R	Weld, Screen, S.D. 45.250 x 43.000 Stainless
	00117-823-00	A/R	Weld, Screen, H.D. 33.250 x 41.000 Carbon
	00117-824-00	A/R	Weld, Screen, H.D. 45.250 x 41.000 Carbon
	00117-825-00	A/R	Weld, Screen, H.D. 33.250 x 43.000 Carbon
	00117-826-00	A/R	Weld, Screen, H.D. 45.250 x 43.000 Carbon
	00117-833-00	A/R	Weld, Screen, H.D. 33.250 x 41.000 Stainless
	00117-834-00	A/R	Weld, Screen, H.D. 45.250 x 41.000 Stainless
	00117-835-00	A/R	Weld, Screen, H.D. 33.250 x 43.000 Stainless
	00117-836-00	A/R	Weld, Screen, H.D. 45.250 x 43.000 Stainless

A/R = As Required

I-BEAM WELDMENTS 24"RISE

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00117-916-00	1	Weld, I-Beam 8' x 24" Rise Carbon Steel
	00117-917-00	1	Weld, I-Beam 9' x 24" Rise Carbon Steel
	00117-918-00	1	Weld, I-Beam 10' x 24" Rise Carbon Steel
	00117-919-00	1	Weld, I-Beam 11' x 24" Rise Carbon Steel
	00117-920-00	1	Weld, I-Beam 12' x 24" Rise Carbon Steel
	00117-921-00	1	Weld, I-Beam 13' x 24" Rise Carbon Steel
	00117-922-00	1	Weld, I-Beam 14' x 24" Rise Carbon Steel
	00117-923-00	1	Weld, I-Beam 15' x 24" Rise Carbon Steel
	00117-924-00	1	Weld, I-Beam 16' x 24" Rise Carbon Steel
	00117-925-00	1	Weld, I-Beam 17' x 24" Rise Carbon Steel
	00117-926-00	1	Weld, I-Beam 18' x 24" Rise Carbon Steel
	00117-927-00	1	Weld, I-Beam 19' x 24" Rise Carbon Steel
	00117-928-00	1	Weld, I-Beam 20' x 24" Rise Carbon Steel
	00117-929-00	1	Weld, I-Beam 21' x 24" Rise Carbon Steel
	00117-930-00	1	Weld, I-Beam 22' x 24" Rise Carbon Steel



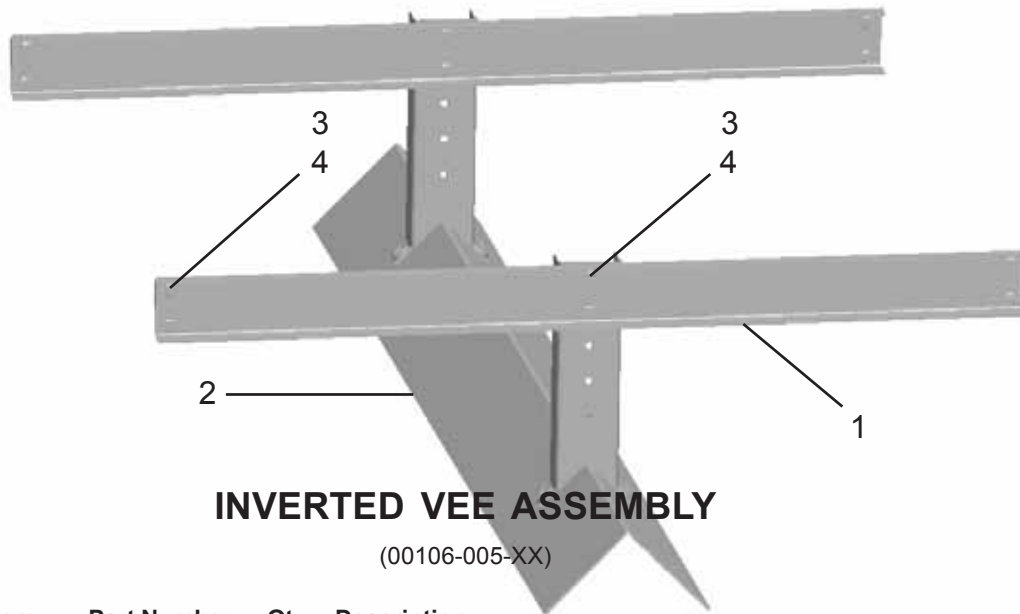
<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00117-946-00	1	Weld, I-Beam 8' x 24" Rise Stainless Steel
	00117-947-00	1	Weld, I-Beam 9' x 24" Rise Stainless Steel
	00117-948-00	1	Weld, I-Beam 10' x 24" Rise Stainless Steel
	00117-949-00	1	Weld, I-Beam 11' x 24" Rise Stainless Steel
	00117-950-00	1	Weld, I-Beam 12' x 24" Rise Stainless Steel
	00117-951-00	1	Weld, I-Beam 13' x 24" Rise Stainless Steel
	00117-952-00	1	Weld, I-Beam 14' x 24" Rise Stainless Steel
	00117-953-00	1	Weld, I-Beam 15' x 24" Rise Stainless Steel
	00117-954-00	1	Weld, I-Beam 16' x 24" Rise Stainless Steel
	00117-955-00	1	Weld, I-Beam 17' x 24" Rise Stainless Steel
	00117-956-00	1	Weld, I-Beam 18' x 24" Rise Stainless Steel
	00117-957-00	1	Weld, I-Beam 19' x 24" Rise Stainless Steel
	00117-958-00	1	Weld, I-Beam 20' x 24" Rise Stainless Steel
	00117-959-00	1	Weld, I-Beam 21' x 24" Rise Stainless Steel
	00117-960-00	1	Weld, I-Beam 22' x 24" Rise Stainless Steel

SCREEN WELDMENTS 24" RISE

(S.D. Standard Duty & H.D. Heavy Duty)

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
2	00117-807-00	A/R	Weld, Screen, S.D. 33.250 x 46.375 Carbon
	00117-808-00	A/R	Weld, Screen, S.D. 45.250 x 46.375 Carbon
	00117-809-00	A/R	Weld, Screen, S.D. 33.250 x 47.375 Carbon
	00117-810-00	A/R	Weld, Screen, S.D. 45.250 x 47.375 Carbon
	00117-817-00	A/R	Weld, Screen, S.D. 33.250 x 46.375 Stainless
	00117-818-00	A/R	Weld, Screen, S.D. 45.250 x 46.375 Stainless
	00117-819-00	A/R	Weld, Screen, S.D. 33.250 x 47.375 Stainless
	00117-820-00	A/R	Weld, Screen, S.D. 45.250 x 47.375 Stainless
	00117-827-00	A/R	Weld, Screen, H.D. 33.250 x 46.375 Carbon
	00117-828-00	A/R	Weld, Screen, H.D. 45.250 x 46.375 Carbon
	00117-829-00	A/R	Weld, Screen, H.D. 33.250 x 47.375 Carbon
	00117-830-00	A/R	Weld, Screen, H.D. 45.250 x 47.375 Carbon
	00117-837-00	A/R	Weld, Screen, H.D. 33.250 x 46.375 Stainless
	00117-838-00	A/R	Weld, Screen, H.D. 45.250 x 46.375 Stainless
	00117-839-00	A/R	Weld, Screen, H.D. 33.250 x 47.375 Stainless
	00117-840-00	A/R	Weld, Screen, H.D. 45.250 x 47.375 Stainless

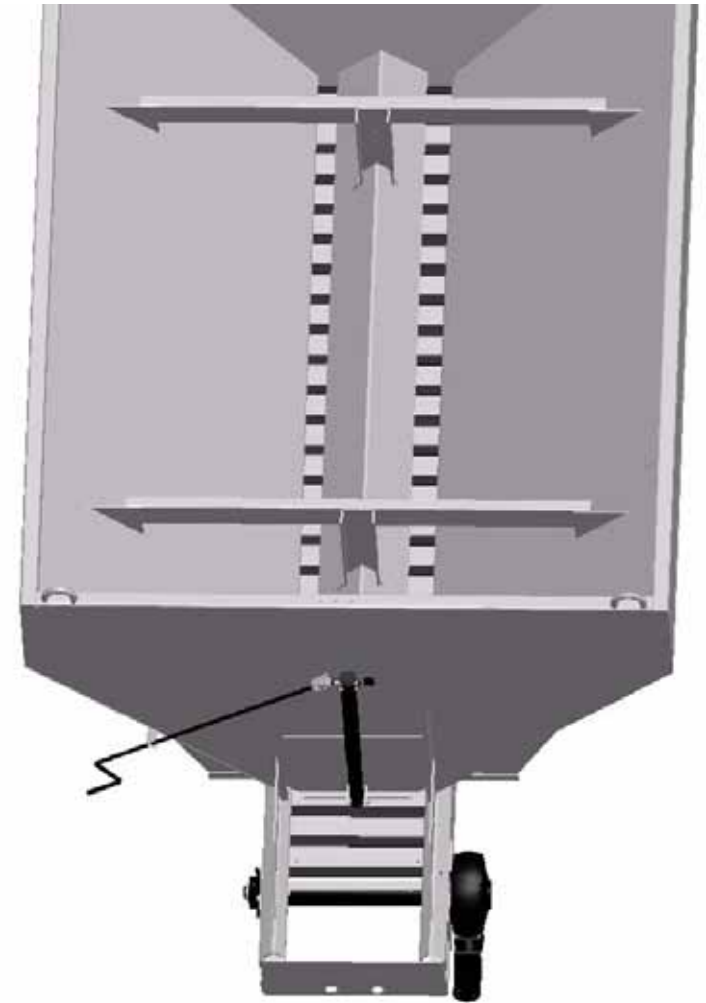
A/R = As Required

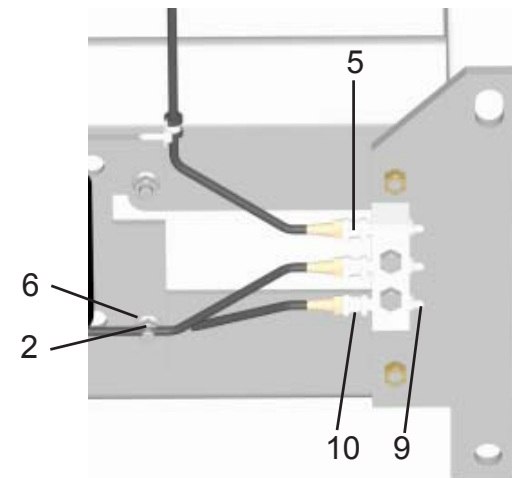
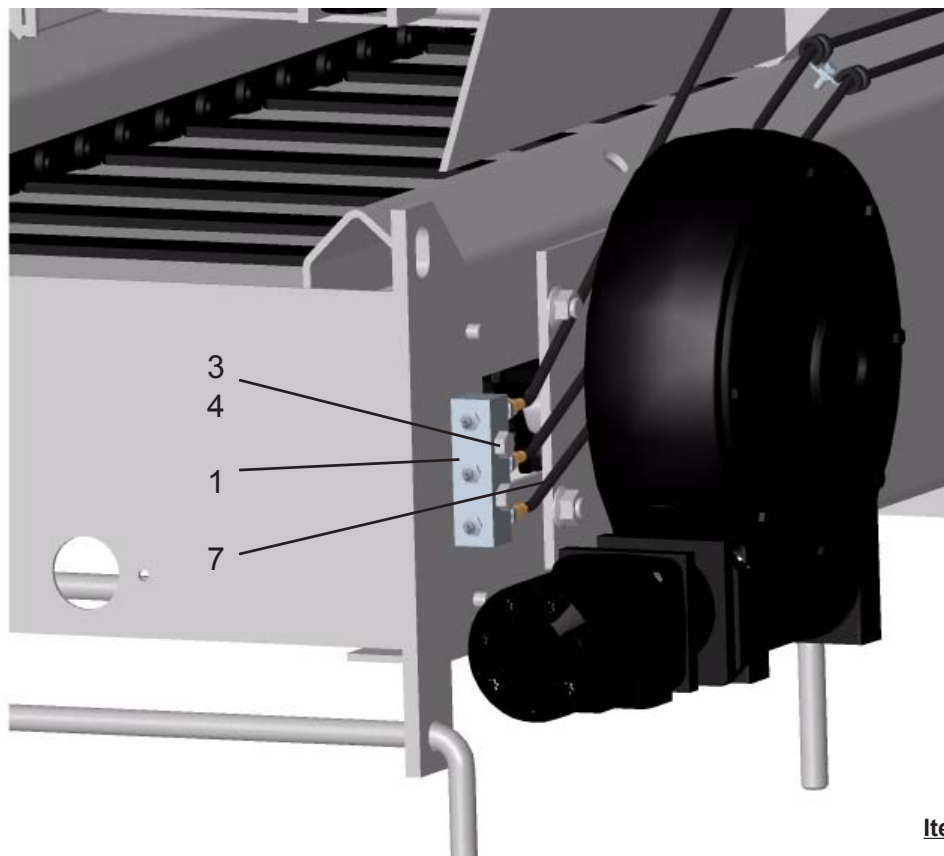


INVERTED VEE ASSEMBLY

(00106-005-XX)

Item	Part Number	Qty.	Description
1	00105-181-00	*2/3	Channel, Inverted "V" Formed, Carbon
	00105-181-01	*2/3	Channel, Inverted "V" Formed, Stainless Steel
2	00106-022-04	1	Sub-Assembly, 7 Ft. Carbon
	00106-022-01	1	Sub-Assembly, 10 Ga. 8 & 9 Ft. Carbon
	00106-022-02	1	Sub-Assembly, 10 Ga. 10 & 11 Ft. Carbon
	00106-022-05	1	Sub-Assembly, 10 Ga. 12 & 13 Ft. Carbon
	00106-022-03	1	Sub-Assembly, 10 Ga. 14, 15, 16 & 17 Ft. Carbon
	00111-309-02	1	Sub- Assembly, 10 Ga. 18 & 19 Ft. Carbon
	00111-309-01	1	Sub-Assembly, 10 Ga. 20 - 22 Ft. Carbon
	00108-312-04	1	Sub-Assembly, 12 Ga. 7 Ft. Stainless Steel
	00108-312-01	1	Sub-Assembly, 12 Ga. 8 & 9 Ft. Stainless Steel
	00108-312-02	1	Sub-Assembly, 12 Ga. 10 & 11 Ft. Stainless Steel
	00108-312-05	1	Sub-Assembly, 12 Ga. 12 & 13 Ft. Stainless Steel
	00108-312-03	1	Sub-Assembly, 12 Ga. 14, 15, 16 & 17 Ft. Stainless Steel
	00111-309-05	1	Sub-Assembly, 12 Ga. 18 & 19 Ft. Stainless Steel
	00111-309-06	1	Sub-Assembly, 12 Ga. 20 - 22 Ft. Stainless Steel
3	04003-005-01	*12/18	Bolt, 1/2-13 X 1" HH GR5, ZP
	04003-005-17	*12/18	Bolt, 1/2-13 X 1" HH, SS
4	04003-806-06	*12/18	Nut, 1/2-13 Serrated Flange, ZP
	04003-806-16	*12/18	Nut, 1/2-13 Serrated Flange, SS





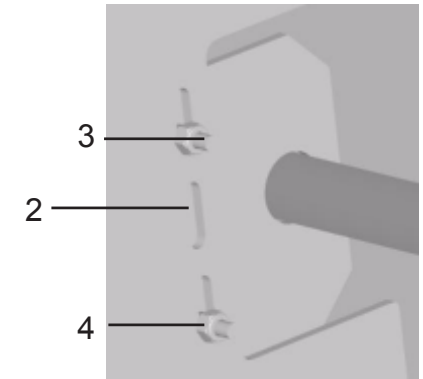
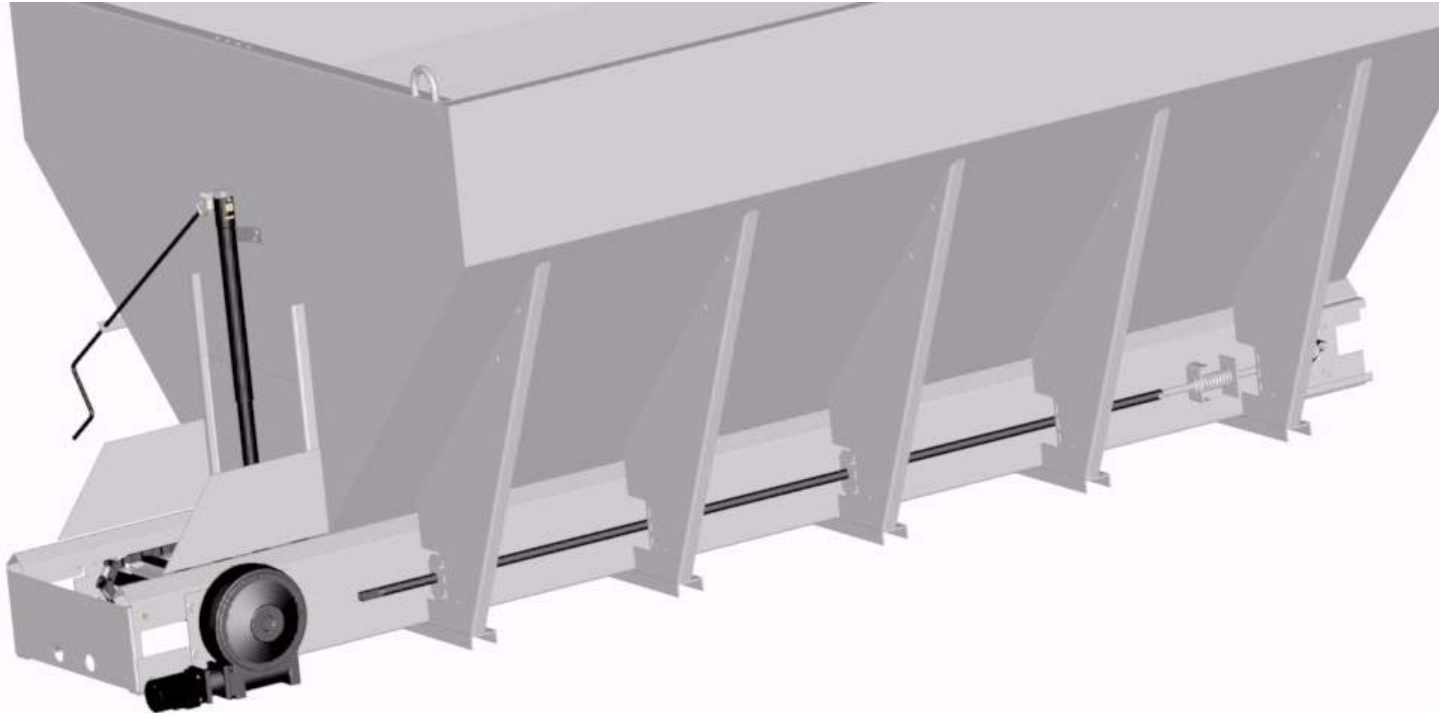
GREASE EXTENSION ASSEMBLY

(00002-404-XX)

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00117-768-00	1	Manifold Grease Extension
2	04002-069-02	A/R	Screw, #10-24 x 3/4" HWH Teks/3, SS
3	04003-003-57	2	Bolt, 3/8"-16 X 1 3/4" HH, SS
4	04003-806-12	2	Nut, 3/8"-16 Serrated Flange, SS
5	04121-068-01	6	Stem, 1/8" Paraflex Crimp
6	04607-024-00	A/R	Clamp, Cushioned, 3/8" Loop, SS
7	04120-047-00	A/R	Hose, Grease
N/S	04614-001-00	1	Adapter, 1/4"-28 (M) x 1/8" NPT (F)
9	04015-001-00	3	Fitting, 1/8" NPT Straight Grease
10	04121-003-01	5	Adapter, 1/8" Swivel

N/S = Not Shown

A/R = As Required

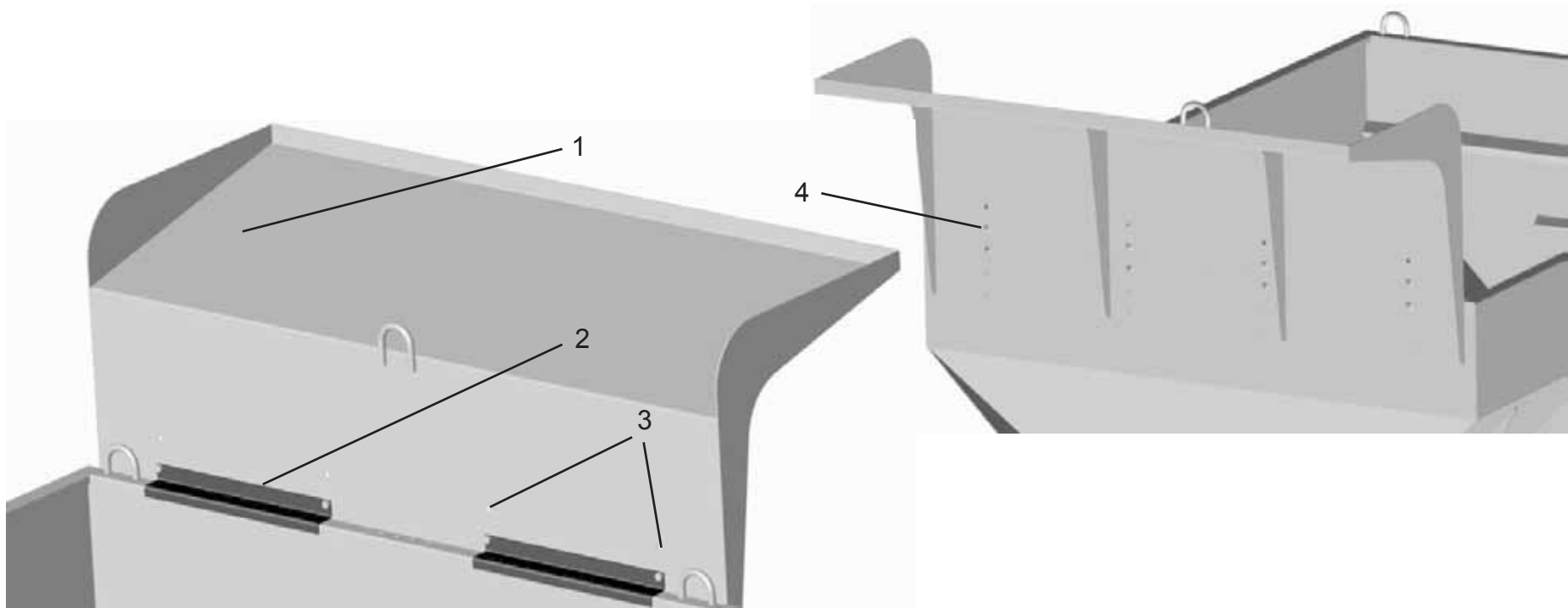


REAR TAKE-UP

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00102-294-01	1	Pipe, Adjusting, 8 Ft.
	00102-294-02	1	Pipe, Adjusting, 9 Ft.
	00102-294-03	1	Pipe, Adjusting, 10 Ft.
	00102-294-04	1	Pipe, Adjusting, 11 Ft.
	00102-294-05	1	Pipe, Adjusting, 12 Ft.
	00102-294-06	1	Pipe, Adjusting, 13 Ft.
	00102-294-07	1	Pipe, Adjusting, 14 Ft.
	00102-294-08	1	Pipe, Adjusting, 15 Ft.
(Continued)			

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00102-294-09	1	Pipe, Adjusting, 16 Ft.
	00102-294-10	1	Pipe, Adjusting, 17 Ft.
	00102-294-12	1	Pipe, Adjusting, 18 Ft.
	00102-294-13	1	Pipe, Adjusting, 19 Ft.
	00102-294-14	1	Pipe, Adjusting, 20 Ft.
	00102-294-15	1	Pipe, Adjusting, 21 Ft.
	00102-294-16	1	Pipe, Adjusting, 22 Ft.
2	50001-012-02	A/R	Bracket, Rear Take-up, SS
3	04003-002-23	A/R	Bolt, 5/16"-18 X 3/4" HH, SS
4	04003-806-13	A/R	Nut, 5/16"-18 Serrated Flange, SS
5	04003-002-21	A/R	Bolt, 5/16"-18 X 1 1/2" HH, SS
6	04003-807-20	A/R	Locknut, 5/16"-18 Nylon Insert, SS

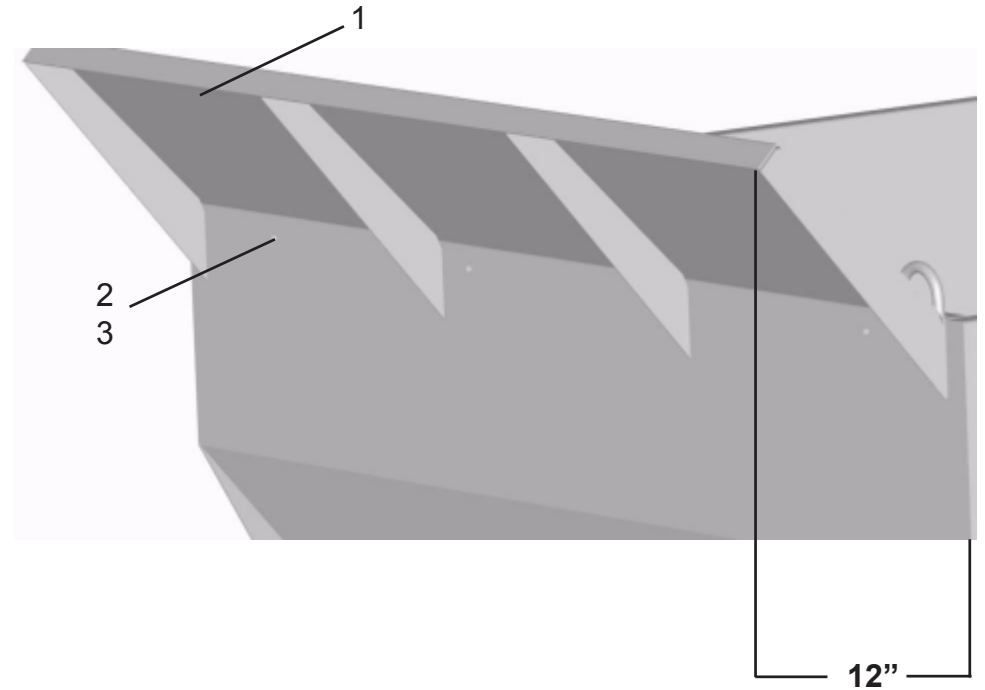
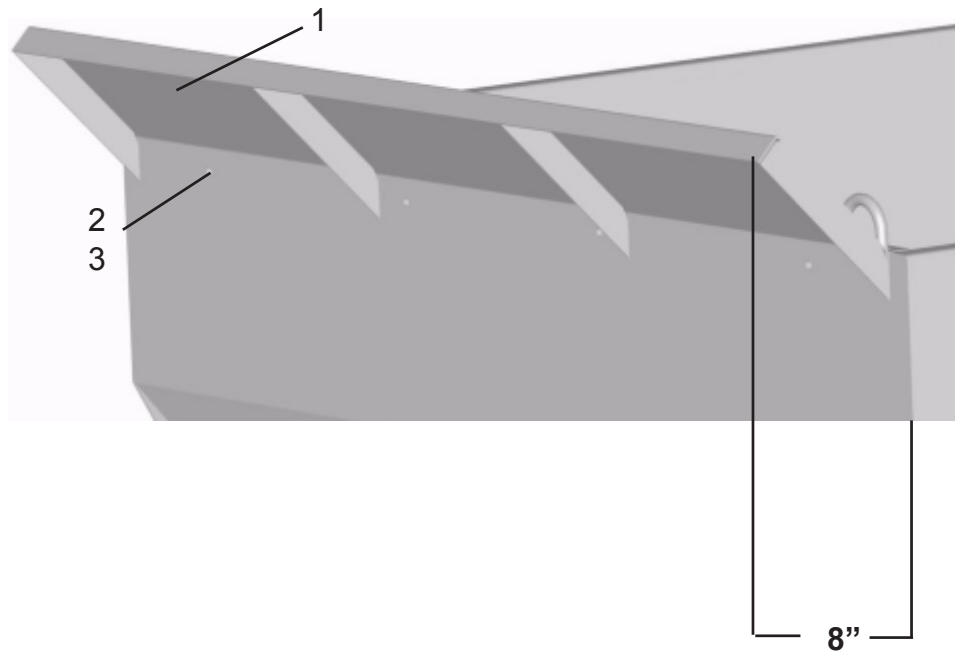
A/R= As Required



CABSHIELDS

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00118-162-01	1	Weldment, Cabshield, Carbon Steel
2	00118-164-01	2	Bracket, Carbon Steel
3	04003-005-01	8	Bolt, 1/2"-13 X 1" HH, Gr5, ZP
4	04003-806-03	8	Nut, 1/2"-13 Serrated Flange, ZP

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00118-162-02	1	Weldment, Cabshield, Stainless Steel
2	00118-164-02	2	Bracket, Stainless Steel
3	04003-005-17	8	Bolt, 1/2"-13 X 1" HH, SS
4	04003-806-16	8	Nut, 1/2"-13 Serrated Flange, SS



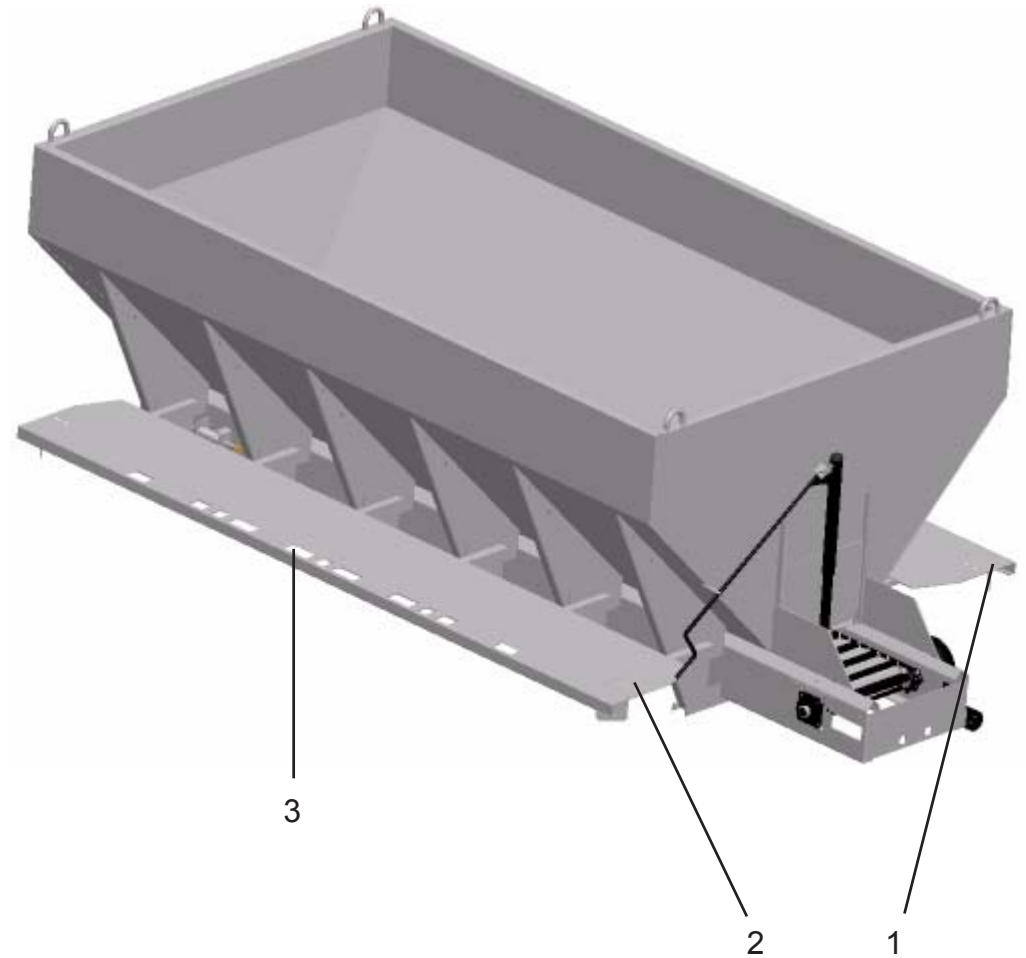
SPILLSHIELDS (8", 12", FRONT & REAR)

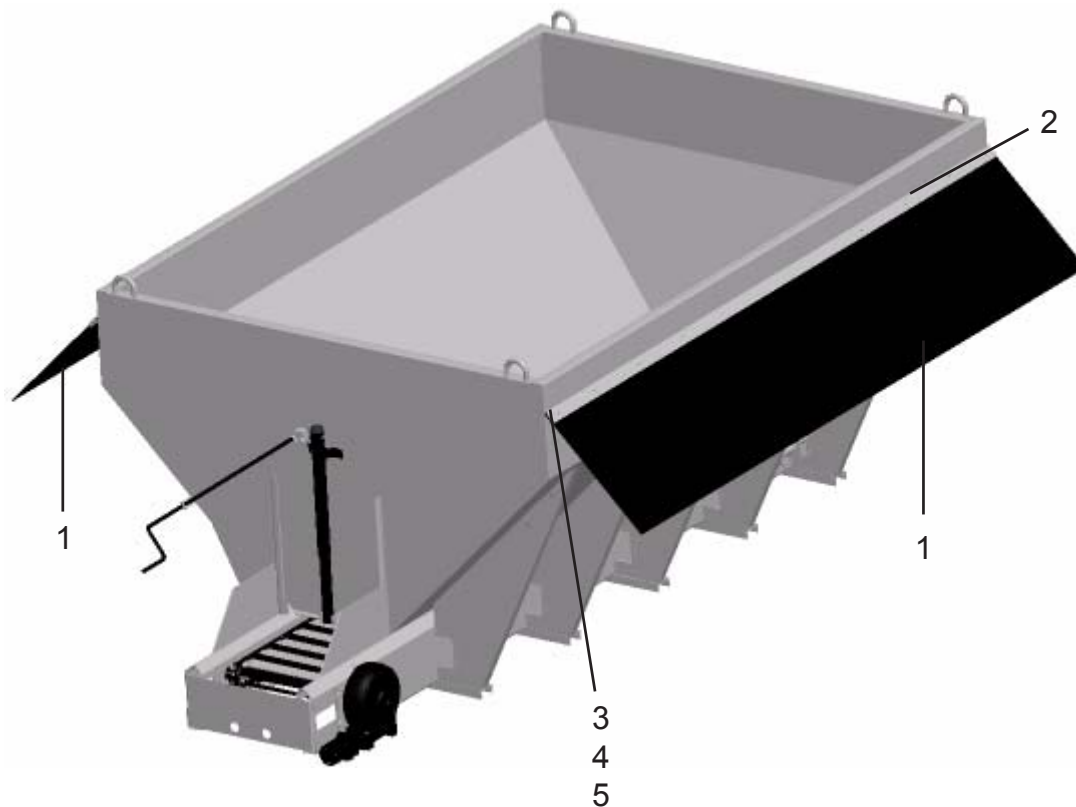
8" Carbon			
<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00118-153-01	1	Weldment, Spillshield, Carbon Steel
2	04003-005-01	4	Bolt, 1/2"-13 X 1" HH, Gr5, ZP
3	04003-806-03	4	Nut, 1/2"-13 Serrated Flange, ZP
8" Stainless			
1	00118-153-02	1	Weldment, Spillshield, Stainless Steel
2	04003-005-17	4	Bolt, 1/2"-13 x 1" HH, SS
3	04003-806-16	4	Nut, 1/2"-13 Serrated Flange, SS

12" Carbon			
<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00118-154-01	1	Weldment, Spillshield, Carbon Steel
2	04003-005-01	4	Bolt, 1/2"-13 X 1" HH, Gr5, ZP
3	04003-806-03	4	Nut, 1/2"-13 Serrated Flange, ZP
12" Stainless			
1	00118-154-02	1	Weldment, Spillshield, Stainless Steel
2	04003-005-17	4	Bolt, 1/2"-13 x 1" HH, SS
3	04003-806-16	4	Nut, 1/2"-13 Serrated Flange, SS

CATWALKS

Item	Part Number	Qty.	Description
1	00116-230-03	1	Weld, R.H. Catwalk, 12 Ga. Carbon (8-9 Ft.)
	00116-230-04	1	Weld, R.H. Catwalk, 12 Ga. Carbon (10-11 Ft.)
	00116-230-05	1	Weld, R.H. Catwalk, 12 Ga. Carbon (12-13 Ft.)
	00116-230-06	1	Weld, R.H. Catwalk, 12 Ga. Carbon (14-15 Ft.)
	00116-230-07	1	Weld, R.H. Catwalk, 12 Ga. Carbon (16-17 Ft.)
	00116-230-22	1	Weld, R.H. Catwalk, 12 Ga. Carbon (18-19 Ft.)
	00116-230-23	1	Weld, R.H. Catwalk, 12 Ga. Carbon (20-21 Ft.)
	00116-230-24	1	Weld, R.H. Catwalk, 12 Ga. Carbon (22 Ft.)
	00116-230-17	1	Weld, R.H. Catwalk, 10 Ga. SS (8-9 Ft.)
	00116-230-18	1	Weld, R.H. Catwalk, 10 Ga. SS (10-11 Ft.)
	00116-230-19	1	Weld, R.H. Catwalk, 10 Ga. SS (12-13 Ft.)
	00116-230-20	1	Weld, R.H. Catwalk, 10 Ga. SS (14-15 Ft.)
	00116-230-21	1	Weld, R.H. Catwalk, 10 Ga. SS (16-17 Ft.)
	00116-230-28	1	Weld, R. H. Catwalk, 10 Ga. SS (18-19 Ft.)
	00116-230-29	1	Weld, R.H. Catwalk, 10 Ga. SS (20-21 Ft.)
	00116-230-30	1	Weld, R.H. Catwalk, 10 Ga. SS (22 Ft.)
2	00116-231-03	1	Weld, L.H. Catwalk, 12 Ga. Carbon (8-9 Ft.)
	00116-231-04	1	Weld, L.H. Catwalk, 12 Ga. Carbon (10-11 Ft.)
	00116-231-05	1	Weld, L.H. Catwalk, 12 Ga. Carbon (12-13 Ft.)
	00116-231-06	1	Weld, L.H. Catwalk, 12 Ga. Carbon (14-15 Ft.)
	00116-231-07	1	Weld, L.H. Catwalk, 12 Ga. Carbon (16-17 Ft.)
	00116-231-22	1	Weld, L.H. Catwalk, 12 Ga. Carbon (18-19 Ft.)
	00116-231-23	1	Weld, L.H. Catwalk, 12 Ga. Carbon (20-21 Ft.)
	00116-231-24	1	Weld, L.H. Catwalk, 12 Ga. Carbon (22 Ft.)
	00116-231-17	1	Weld, L.H. Catwalk, 10 Ga. SS (8-9 Ft.)
	00116-231-18	1	Weld, L.H. Catwalk, 10 Ga. SS (10-11 Ft.)
	00116-231-19	1	Weld, L.H. Catwalk, 10 Ga. SS (12-13 Ft.)
	00116-231-20	1	Weld, L.H. Catwalk, 10 Ga. SS (14-15 Ft.)
	00116-231-21	1	Weld, L.H. Catwalk, 10 Ga. SS (16-17 Ft.)
	00116-231-28	1	Weld, L.H. Catwalk, 10 Ga. SS (18-19 Ft.)
	00116-231-29	1	Weld, L.H. Catwalk, 10 Ga. SS (20-21 Ft.)
	00116-231-30	1	Weld, L.H. Catwalk, 10 Ga. SS (22 Ft.)
3	04049-198-00	A/R	Tape, Anti-Slip (Stainless Steel Only)
N/S	04003-003-04	A/R	Bolt, 3/8"-16 X 1 1/4" H.H. Gr. 5, ZP
	04003-003-26	A/R	Bolt, 3/8"-16 X 1 1/4" H.H., SS
N/S	04003-801-09	A/R	Nut, 3/8"-16 Hex, ZP
	04003-806-12	A/R	Nut, 3/8"-16 Serrated Flange, SS
N/S	04004-001-07	A/R	Lockwasher, 3/8" Med. Split, ZP(Carbon Only)





SIDE SKIRTS

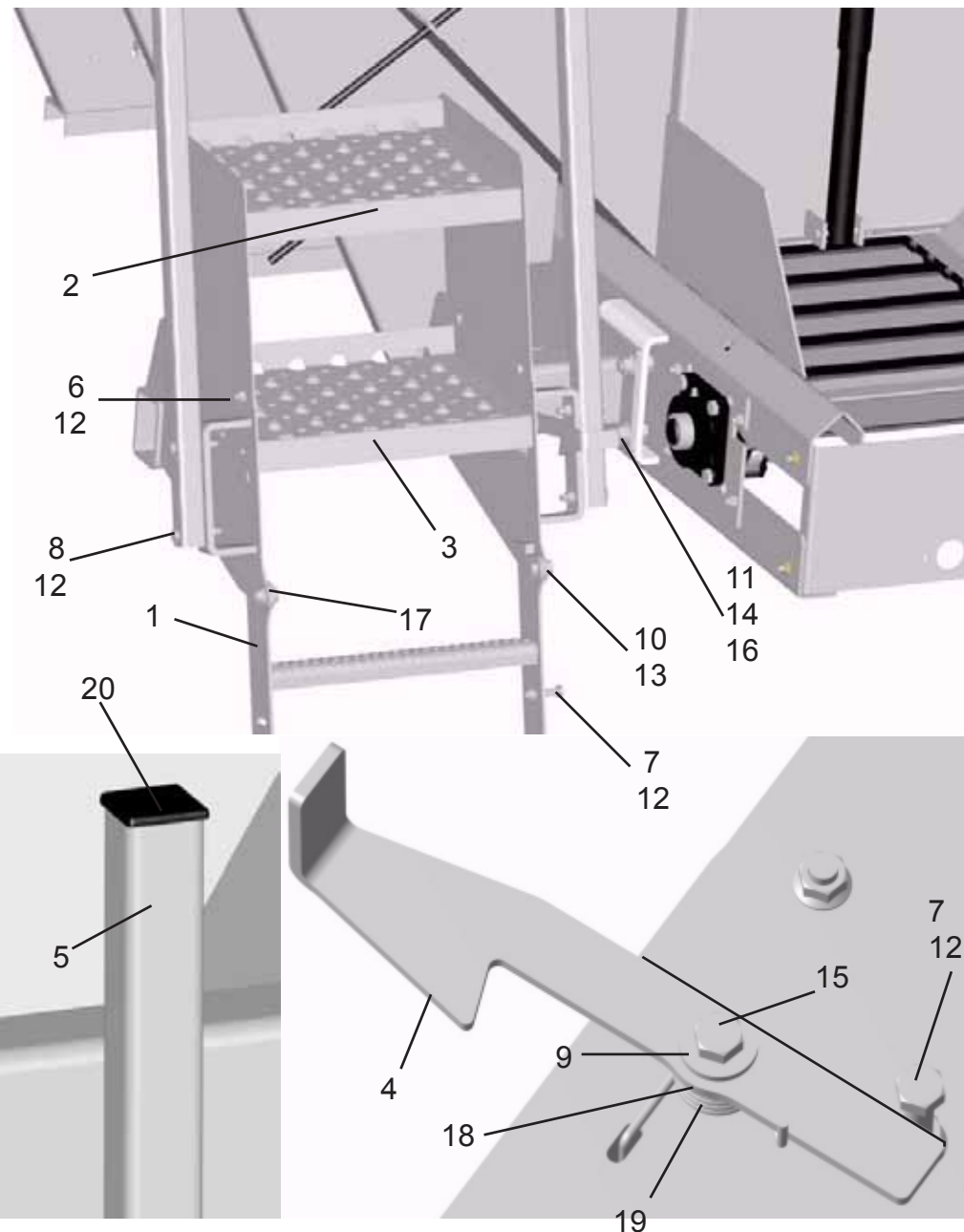
(00118-201-xx 24")

Item	Part Number	Qty.	Description
1	04076-094-00	2	Belt, Side Skirt, 8 Ft., 24"
	04076-053-00	2	Belt, Side Skirt, 9 Ft., 24"
	04076-066-00	2	Belt, Side Skirt, 10 Ft., 24"
	04076-069-00	2	Belt, Side Skirt, 11 Ft., 24"
	04076-080-00	2	Belt, Side Skirt, 12 Ft., 24"
	04076-090-00	2	Belt, Side Skirt, 13 Ft., 24"
	04076-068-00	2	Belt, Side Skirt, 14 Ft., 24"
	04076-102-00	2	Belt, Side Skirt, 15 Ft., 24"
	04073-097-00	2	Belt, Side Skirt, 16 Ft., 24"
	04076-123-00	2	Belt, Side Skirt, 17 Ft., 24"

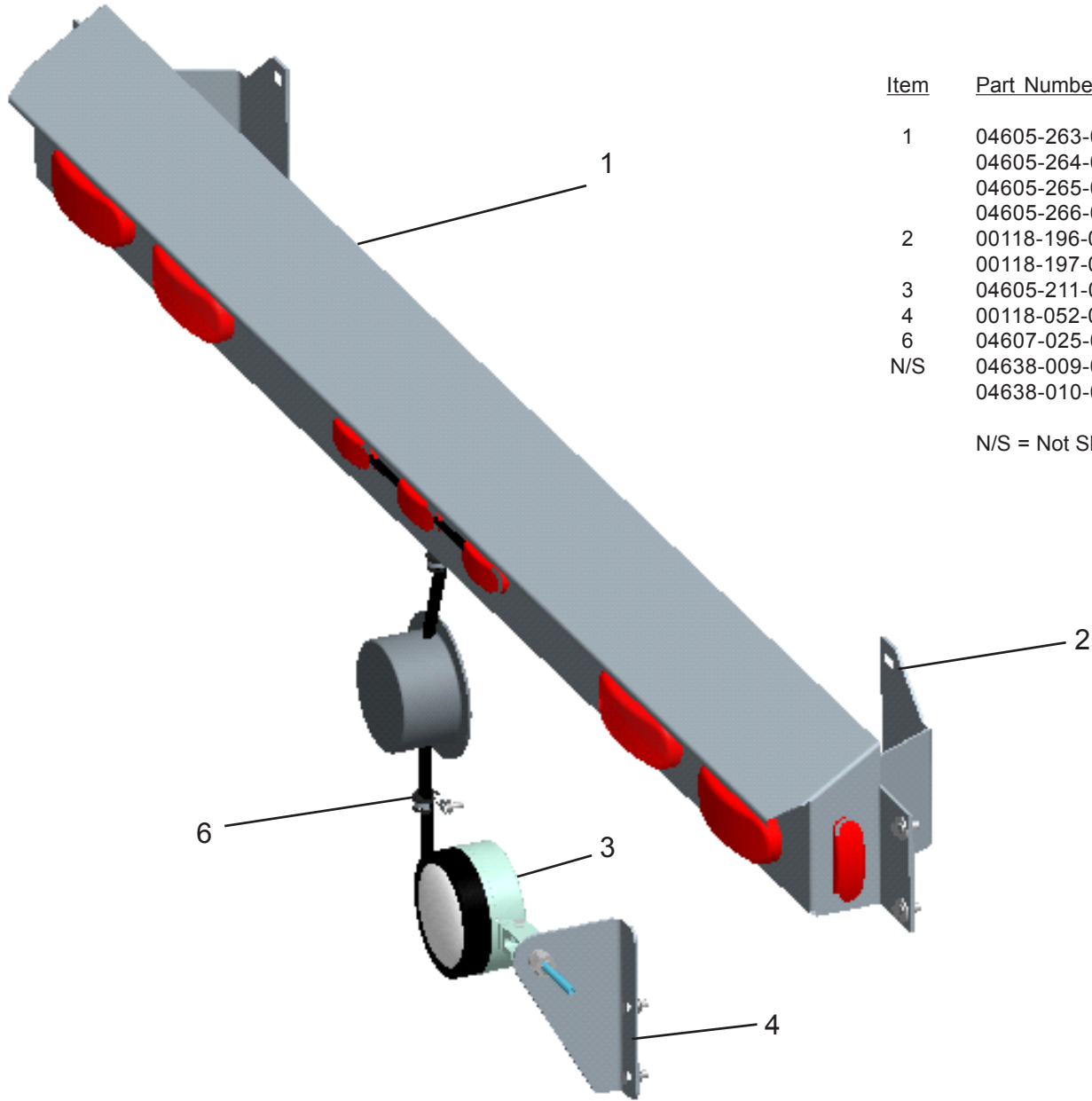
Item	Part Number	Qty.	Description
2	04076-118-00	2	Belt, Side Skirt, 18 Ft., 24"
	04076-124-00	2	Belt, Side Skirt, 19 Ft., 24"
	04076-125-00	2	Belt, Side Skirt, 20 Ft., 24"
	04076-126-00	2	Belt, Side Skirt, 21 Ft., 24"
	04076-127-00	2	Belt, Side Skirt, 22 Ft., 24"
	00118-202-08	2	Bar, Mounting, 8 Ft., Carbon
	00118-202-28	2	Bar, Mounting, 8 Ft., Stainless Steel
	00118-202-09	2	Bar, Mounting, 9 Ft., Carbon
	00118-202-29	2	Bar, Mounting, 9 Ft., Stainless Steel
	00118-202-10	2	Bar, Mounting, 10 Ft., Carbon
	00118-202-30	2	Bar, Mounting, 10 Ft., Stainless Steel
	00118-202-11	2	Bar, Mounting, 11 Ft., Carbon
	00118-202-31	2	Bar, Mounting, 11 Ft., Stainless Steel
	00118-202-12	2	Bar, Mounting, 12 Ft., Carbon
	00118-202-32	2	Bar, Mounting, 12 Ft., Stainless Steel
	00118-202-13	2	Bar, Mounting, 13 Ft., Carbon
	00118-202-33	2	Bar, Mounting, 13 Ft., Stainless Steel
	00118-202-14	2	Bar, Mounting, 14 Ft., Carbon
	00118-202-34	2	Bar, Mounting, 14 Ft., Stainless Steel
	00118-202-15	2	Bar, Mounting, 15 Ft., Carbon
	00118-202-35	2	Bar, Mounting, 15 Ft., Stainless Steel
3	00118-202-16	2	Bar, Mounting, 16 Ft., Carbon
	00118-202-36	2	Bar, Mounting, 16 Ft., Stainless Steel
4	00118-202-17	2	Bar, Mounting, 17 Ft., Carbon
	00118-202-37	2	Bar, Mounting, 17 Ft., Stainless Steel
5	00118-202-18	2	Bar, Mounting, 18 Ft., Carbon
	00118-202-38	2	Bar, Mounting, 18 Ft., Stainless Steel
3	00118-202-19	2	Bar, Mounting, 19 Ft., Carbon
	00118-202-39	2	Bar, Mounting, 19 Ft., Stainless Steel
4	00118-202-20	2	Bar, Mounting, 20 Ft., Carbon
	00118-202-40	2	Bar, Mounting, 20 Ft., Stainless Steel
5	00118-202-21	2	Bar, Mounting, 21 Ft., Carbon
	00118-202-41	2	Bar, Mounting, 21 Ft., Stainless Steel
3	00118-202-22	2	Bar, Mounting, 22 Ft., Carbon
	00118-202-42	2	Bar, Mounting, 22 Ft., Stainless Steel
4	04003-003-04	A/R	Bolt, 3/8"-16 X 1 1/4" H.H. Gr 5, ZP
	04003-003-26	A/R	Bolt, 3/8"-16 X 1 1/4" H.H., SS
5	04003-806-02	A/R	Nut, 3/8"-16 Serrated Flange, ZP
	04003-806-12	A/R	Nut, 3/8"-16 Serrated Flange, SS
5	04004-002-08	A/R	Flatwasher, 3/8" U.S.S., ZP
	04004-002-20	A/R	Flatwasher, 3/8" U.S.S., SS

EXTENDED LADDER ASSEMBLY

Item	Part Number	Qty.	Description
1	00118-003-01	1	Weld, Lower Ladder, Carbon Steel
2	00118-004-01	1	Weld, Ladder Extra Step, Carbon Steel
3	00118-006-01	1	Weld, Ladder Platform, Carbon Steel
4	00118-015-01	1	Latch, Carbon Steel
5	00118-018-01	2	Grab-Tube, Carbon Steel
6	04003-003-01	4	Bolt, 3/8"-16 X 3/4" HH Gr5, ZP
7	04003-003-07	2	Bolt, 3/8"-16 x 2" HH Gr5, ZP
8	04003-003-08	4	Bolt, 3/8"-16 X 2 1/2" HH Gr5, ZP
9	04003-003-18	1	Bolt, 3/8"-16 X 1 3/4" HH Gr5, ZP
10	04003-005-01	2	Bolt, 1/2"-13 X 1" HH Gr5, ZP
11	04003-006-01	4	Bolt, 5/8"-18 X 1 1/2" HH Gr5, ZP
12	04003-806-02	13	Nut, 3/8"-16 Serrated Flange, ZP
13	04003-806-03	2	Nut, 1/2"-13 Serrated Flange, ZP
14	04003-806-04	4	Nut, 5/8"-11 Serrated Flange, ZP
15	04004-002-08	1	Flatwasher, 3/8" U.S.S., ZP
16	04004-002-11	2	Flatwasher, 1/2" U.S.S. Plain
17	04008-002-00	2	Bushing, 1/2" I.D. X 3/4" O.D.
18	04008-010-00	1	Bushing, Pivot Latch Standoff, SS
19	04091-041-00	1	Spring, Torsion, SS
20	04111-003-00	2	Plug, Square 1 1/2"
Item	Part Number	Qty.	Description
1	00118-003-02	1	Weld, Lower Ladder, Stainless Steel
2	00118-004-02	1	Weld, Ladder Extra Step, Stainless Steel
3	00118-006-02	1	Weld, Ladder Platform, Stainless Steel
4	00118-015-02	1	Latch, Stainless Steel
5	00118-018-02	2	Grab-Tube, Stainless Steel
6	04003-003-24	4	Bolt, 3/8"-16 X 3/4" HH, SS
7	04003-003-29	2	Bolt, 3/8"-16 x 2" HH, SS
8	04003-003-21	4	Bolt, 3/8"-16 x 2 1/2" HH, SS
9	04003-003-57	1	Bolt, 3/8"-16 X 1 3/4" HH, SS
10	04003-005-17	2	Bolt, 1/2"-13 X 1" HH, SS
11	04003-006-21	4	Bolt, 5/8"-11 X 1 3/4" HH, SS
12	04003-806-12	13	Nut, 3/8"-16 Serrated Flange, SS
13	04003-806-16	2	Nut, 1/2"-13 Serrated Flange, SS
14	04003-804-09	4	Locknut, 5/8-11 Nylon Insert, Gr5
15	04004-002-20	1	Flatwasher, 3/8" U.S.S., SS
16	04004-002-22	2	Flatwasher, 1/2" U.S.S., SS
17	04008-002-00	2	Bushing, 1/2" I.D. X 3/4" O.D.
18	04008-010-00	1	Bushing, Pivot Latch Standoff, SS
19	04091-041-00	1	Spring, Torsion, SS
20	04111-003-00	2	Plug, Square 1 1/2"
N/S	04004-002-49	4	Flatwasher, 5/8" U.S.S. SS (only used on SS)

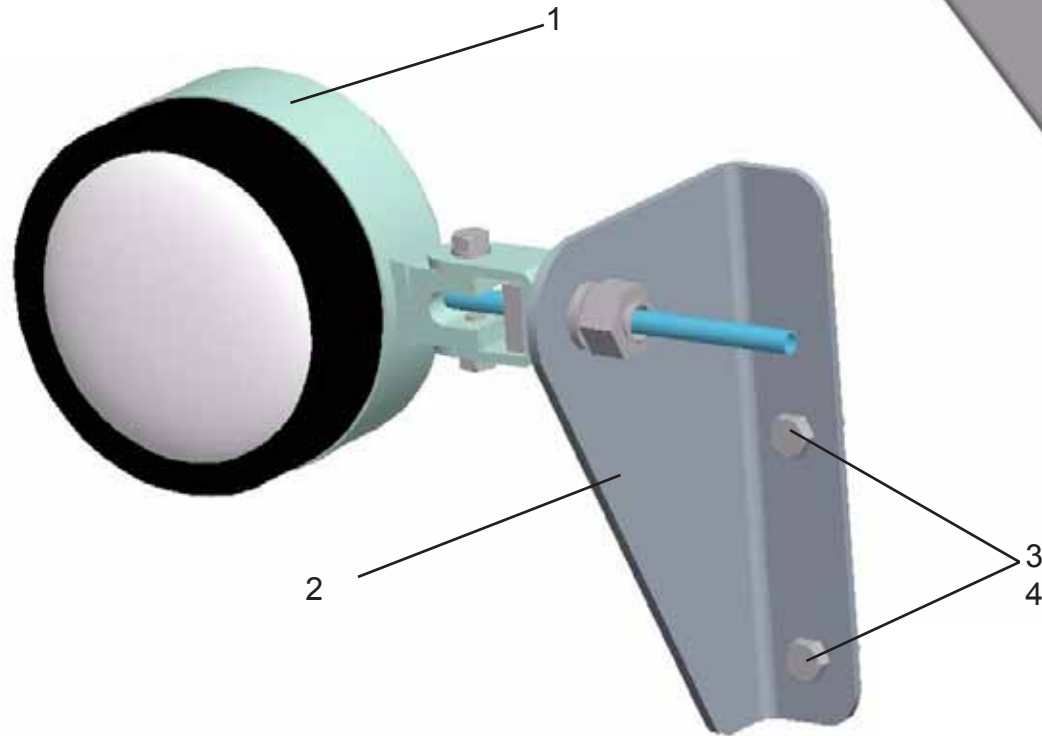


OPTIONAL LIGHTING PACKAGE



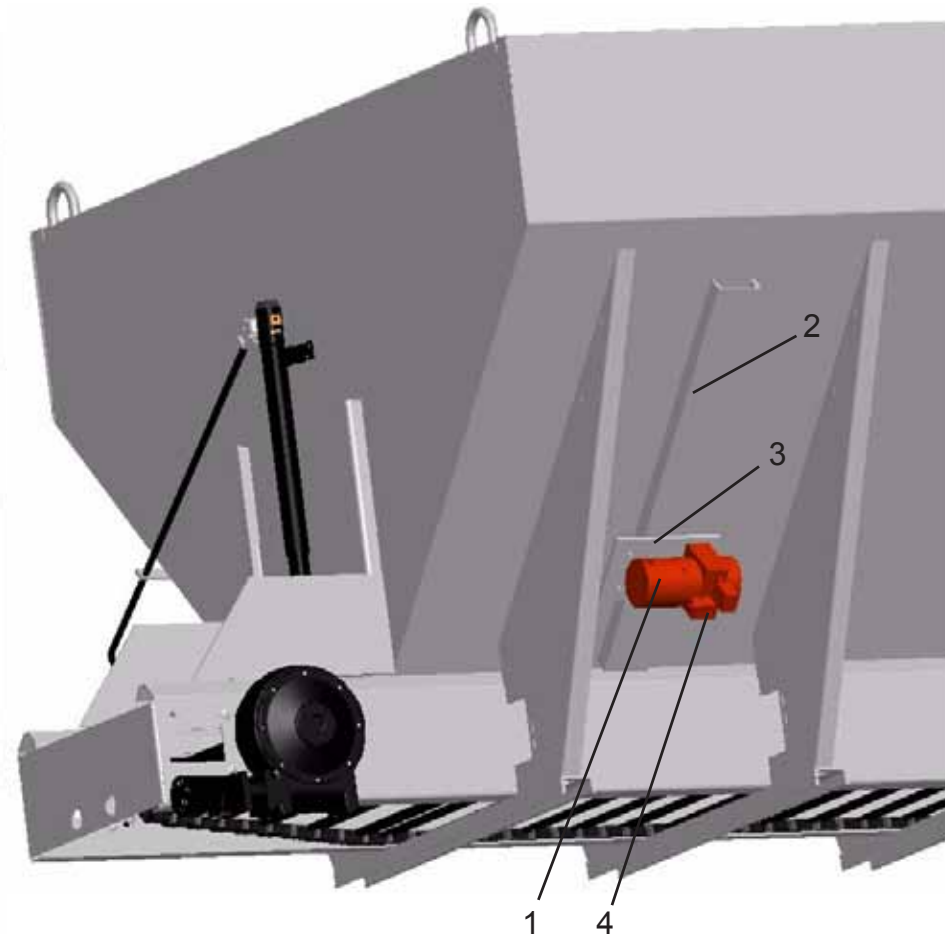
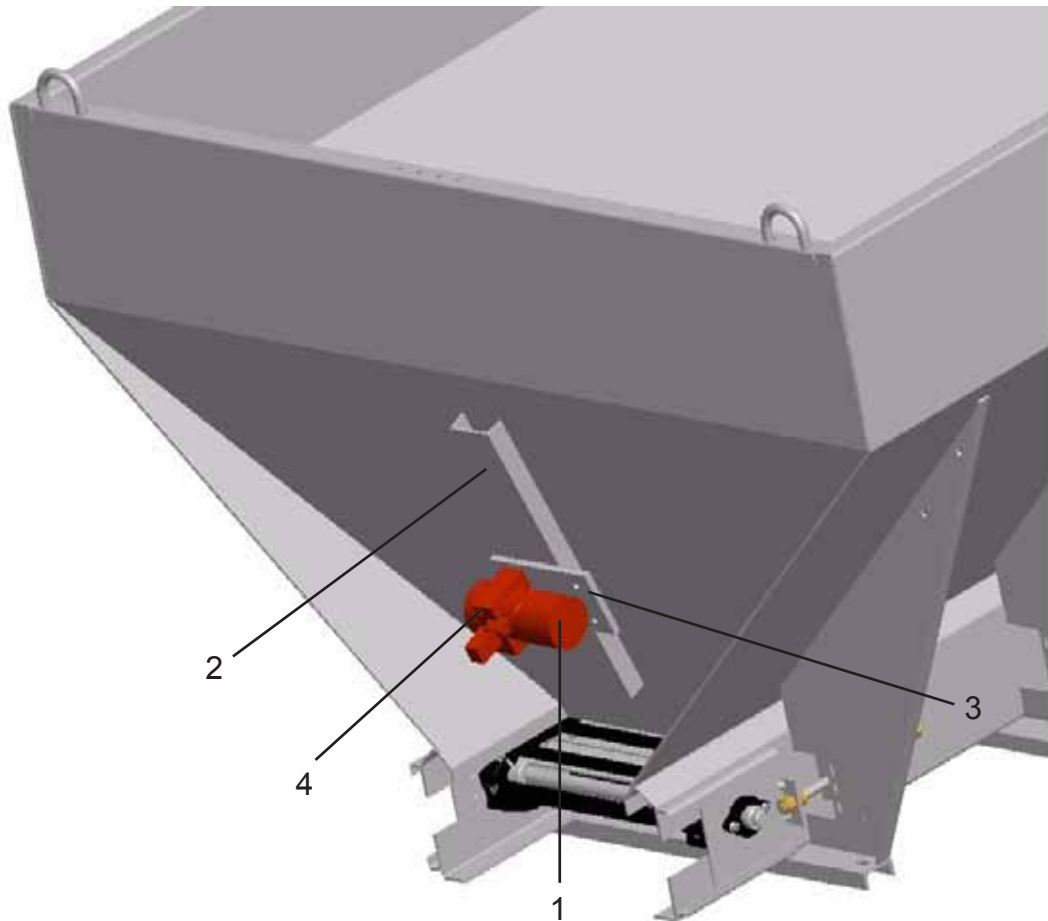
Item	Part Number	Qty	Description
1	04605-263-00	1	STT/Tail
	04605-264-00	1	STT/Amber Flasher
	04605-265-00	1	STT/Amber Strobe
	04605-266-00	1	STT/Back-Up
2	00118-196-00	2	Mounting Bracket, V-Box Height 55" or higher
	00118-197-00	2	Mounting Bracket, V-Box Height 54" or Less
3	04605-211-00	1	Work Light
4	00118-052-00	1	Mounting Bracket
6	04607-025-00	2	Cushioned Clamp, 3/4"
N/S	04638-009-00	1	Plug, 7 Pin
	04638-010-00	1	Receptacle, 7 Pin

N/S = Not Shown



WORKLIGHT

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	04605-211-00	1	Worklight, Sealed Beam
2	00118-052-00	1	Bracket, Work Light
3	04003-002-37	2	Bolt, 5/16"-18 X 1" H.H. Stainless Steel
4	04003-806-13	2	Nut, 5/16"-18 Serrated Flange

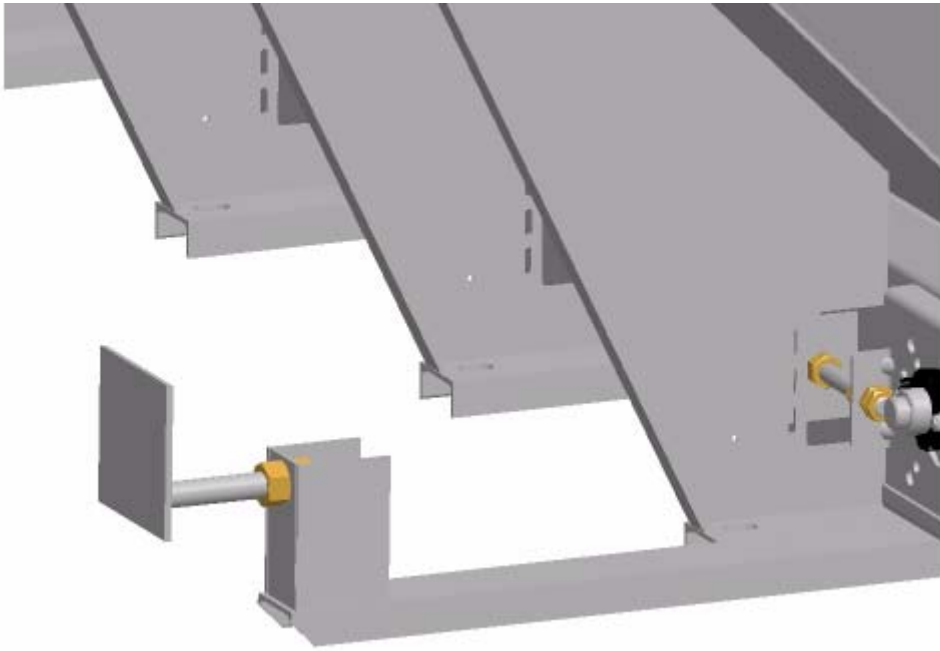


VIBRATOR

(00002-191-00 Front & 00002-280-00 Side)

Item	Part Number	Qty.	Description
1	04150-039-00	2	Vibrator Material - Side
	04150-039-00	1	Vibrator Material - Front
2	00112-050-00	2	Channel, Sides
	00114-910-00	1	Channel, Front

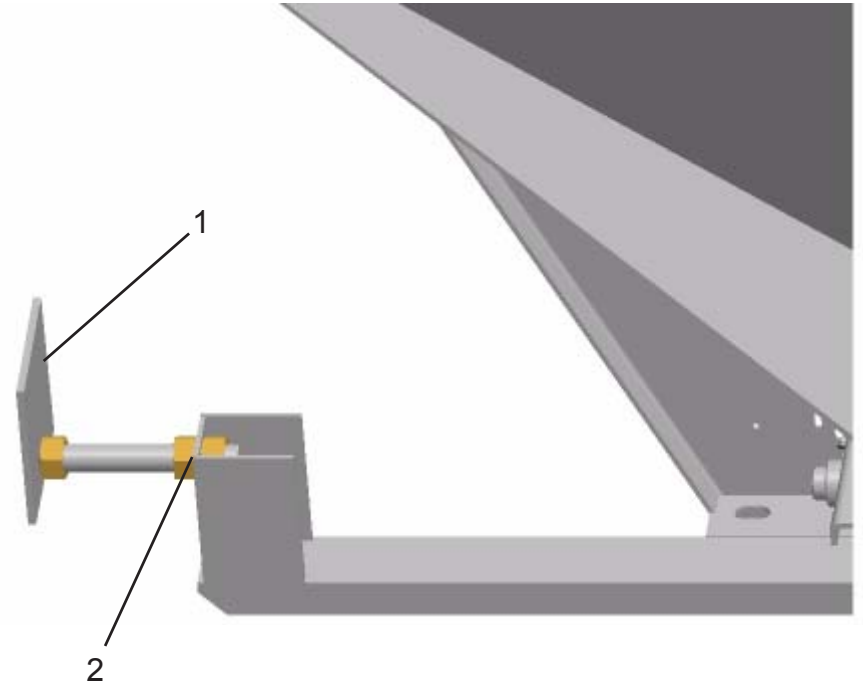
Item	Part Number	Qty.	Description
3	00112-051-00	A/R	Plate
4	04003-005-57	2	Bolt, 1/2"-13 X 5"
N/S	04150-040-00	1	Vibrator Mounting Kit (Hardware & Plate)
N/S	04150-041-00	1	Vibrator Wiring Kit



CHANNEL SPACER

(00102-436-XX)

<u>Item</u>	<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
1	00115-291-01	2	Weld, Stabilazer, Carbon
	00115-291-02	2	Weld, Stabilazer, Stainless Steel
2	04003-801-14	4	Nut, 1-8 Hex, Carbon
	04003-801-23	4	Nut, 1-8 Hex, Stainless Steel



SERIAL NUMBER DECAL INFORMATION

When ordering parts or requesting information or assistance, always include the information listed below.

The description, part number and serial number for the spreader is shown on the serial number decal.

The space below is provided as a convenient place to record these number just fill in the blanks.

DESCRIPTION _____

PART NUMBER _____

SERIAL NUMBER _____

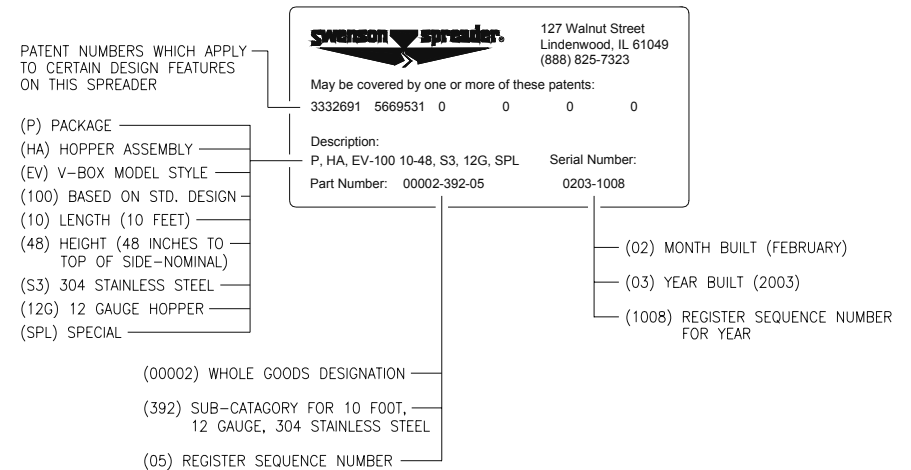
DATE PURCHASED _____

PURCHASED FROM _____

DEALER'S SERVICE DEPARTMENT PHONE NUMBER _____

NOTE: Numbers shown on decal below are for example purposes only. Refer to decal on spreader for recording information.

EXPLANATION OF SERIAL NUMBER DECAL



Z:\001111\00111-389-00RTJPD

CALL YOUR AUTHORIZED SWENSON SPREADER DEALER FOR PARTS AND SERVICE

SWENSON SPREADER (815) 393-4455

TOLL FREE (888) 825-7323

FAX (866) 310-0300

email: swensonsales@swensonspreader.com



Dealers have the responsibility of calling to the attention of their customers the following warranty prior to acceptance of an order from that customer for any SWENSON® product.

WARRANTY

WHAT THIS WARRANTY COVERS

Swenson Spreader LLC (hereinafter "Swenson") is committed to assuring Customer satisfaction with the Spreader (hereinafter "Product"). Swenson warrants to the original owner (hereinafter "Purchaser") of the Product to be free from defects in material and workmanship for the following term: Swenson warrants ALL PARTS AND ASSEMBLIES to be free from defects in material and workmanship for a period of one year from the date of purchase. Installation of the Product must be in accordance with Swenson's instructions. This warranty extends to the Purchaser and may not be assigned without the prior written approval of Swenson; except a distributor may assign this warranty to the first titled owner of the Product.

If a Product has a defect in material or workmanship covered by the warranty, Swenson will (at our option) either replace or repair said part. Swenson's has sole discretion as to repair of defects covered by this warranty, or replacement of the Product. Swenson's responsibilities as described herein shall not exceed the amount of the purchase of the Product.

WHAT THIS WARRANTY DOES NOT COVER

Swenson's warranty does not extend to Product which have been misused, abused, improperly installed, repaired with non-genuine Swenson parts, improperly cared for, if materials such as lava rock or cinders are used, or for which payment has not been made. The warranty is void if repairs or alterations to the Product are made by unauthorized persons, or the Product serial numbers have been altered or defaced.

All gasoline engines and hydraulic pumps are warranted by their manufacturer and not by Swenson Spreader LLC. Electrical or hydraulic components are not to be disassembled without the express written permission of Swenson Spreader LLC.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SWENSON'S MAXIMUM OBLIGATION AND LIABILITY UNDER THIS WARRANTY SHALL BE LIMITED TO AN AMOUNT EQUAL TO THE PRESENT PURCHASE PRICE FOR THE SWENSON PRODUCT. SWENSON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER DIRECT OR INDIRECT, INCIDENTAL, CONSEQUENTIAL OR OTHERWISE ARISING OUT OF BREACH OF THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY. Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages.

Defective parts returned to Swenson Spreader LLC must be accompanied by the following information:

RGA #	_____
Spreader Model	_____
Serial Number	_____
Date Installed	_____
Where Purchased	_____

Purchaser accepts these terms and warranty limitations unless product is returned within fifteen days for full refund of purchase price.

IMPORTANT INFORMATION ENCLOSED



SWENSON SPREADER LLC
P.O. BOX 127
LINDENWOOD, ILLINOIS 61049-0127

PHONE: (815)393-4455
TOLL FREE: (888)825-7323
SALES & SERVICE FAX: (866)310-0300

email: swensonsales@swensonspreader.com
website: www.swensonspreader.com