



# Parts and Operation Manual

for

## MSV V-Box w/Auger



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# TABLE OF CONTENTS

<b>SAFETY INSTRUCTIONS</b>	<b>Page 2</b>
<b>MAINTENANCE INSTRUCTIONS</b>	<b>Page 3-4</b>
<b>HYDRAULIC TROUBLE SHOOTING</b>	<b>Page 5</b>
<b>INSTALLATION INSTRUCTIONS</b>	<b>Page 6</b>
<b>OPERATING INSTRUCTIONS</b>	<b>Page 7-8</b>
<b>WIRING SCHEMATICS</b>	<b>Page 9</b>
<b>HYDRAULIC SCHEMATICS</b>	<b>Page 10</b>
<b>PLUMBING SCHEMATICS</b>	<b>Page 11</b>
<b>FLOW VALVE</b>	<b>Page 12</b>
<b>GENERAL INFORMATION/SPECIFICATIONS</b>	<b>Page 13-15</b>
<b>REPLACEMENT PARTS</b>	<b>Page 16-97</b>
<b>HOW TO ORDER PARTS</b>	<b>Page 98</b>
<b>RETURN POLICY</b>	<b>Page 98</b>
<b>WARRANTY INFORMATION</b>	<b>Page 99-101</b>

# SAFETY INSTRUCTIONS

- Read all installation, safety and maintenance instructions completely before operating this equipment.
- Keep all personnel clear of moving parts while equipment is being operated.
- Do not operate equipment in need of maintenance! Repair immediately!
- While operating this equipment, use common sense, use caution, be alert and be safety-conscious.
- Do not race the engine while unloading.
- **Before installation of this V-Box, or maintenance to V-Box or truck, apply the parking brake, chock the rear wheels and remove the key from the ignition switch.**
- **Do not enter hopper while engine is running.**
- **Do not disable auger motor interlock, if present.**



**! DANGER**

**AVOID HIGH-PRESSURE FLUIDS**

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

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

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

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.

# MAINTENANCE INSTRUCTIONS

**CAUTION:** Always replace shields and covers when maintenance is complete.

- Allow hydraulic system to warm up before using.
- Maintain a ¾ full reservoir using high grade non-foaming oil.
- Avoid getting contaminants in reservoir when filling.
- Replace filter cartridge with new cartridge at least twice a year and more often if necessary.
- Clean quick disconnects before taking apart or connecting.
- Lubricate all fittings on a regular basis. Refer to chart below.
- The grease fittings are located as follows:  
 Auger Bearing . . . . .1 fitting  
 Rear Gate Jack . . . . .2 fittings

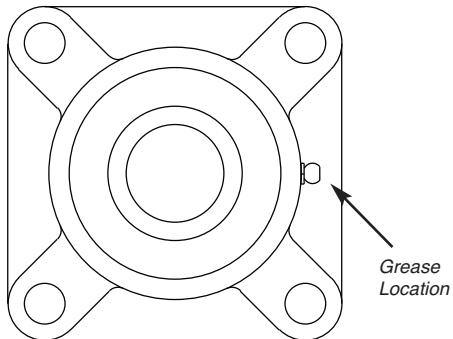
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**LUBRICATION**

All bearing units are factory prelubricated and, therefore, do not require supplemental grease before service life begins. Relubrication, when administered correctly, can increase the life of a bearing substantially. We recommend the following general guidelines to maximize your bearing life:

RPM	Temperature	Environmental Condition	Interval
100 500 1,000	32°F-120°F 32°F-150°F 32°F-210°F	Clean Clean Clean	6-12 months 2-6 months 2 wks to 2 months
1,500 Any	Over 210°F 32°F-150°F	Clean Dirty	Daily to weekly Weekly to monthly
Any Any	Over 150°F Any Temp.	Dirty Very Dirty	Daily to 2 wks Daily to weekly
Any	Any Temp.	Extremely Dirty	Daily to weekly

**BEARING, 4-BOLT FLANGE**



**NOTE:**  
 Over lubrication is a major cause of bearing failures. Please relubricate conservatively when unsure of bearing requirements.  
 When selecting a bearing lubricant, your dealer suggest any lithium-based NLGI #2 grease. For operating temperatures higher than 210°F, please consult your dealer.

## MAINTENANCE INSTRUCTIONS

*Continued from previous page...*

- Protect quick disconnects after taking apart with oily rag or other suitable protection.
- All bearings require periodic greasing and more frequent greasing during periods of greater use.
- Greasing pump shaft u-joints and slip end of pump shaft is recommended with each truck lubrication.
- Rinsing down and cleaning spreader after each use, and repainting or oiling after each season, will greatly prolong spreader life.
- Spreader trough or hopper should be kept empty between use to prevent materials from freezing around conveyor (or roll) in severe cold weather.

# HYDRAULIC TROUBLE SHOOTING CHART

<p><b>CONDITION 1</b> Pump cavitation recognized by excessive noise.</p> <p><b>CAUSE</b></p> <ul style="list-style-type: none"> <li>• Air entering system through suction lines.</li> <li>• Suction line kinked, twisted or too long.</li> <li>• Inadequate size suction line.</li> <li>• Oil too heavy.</li> <li>• Excessive pump speed. Normal pump speed 1200 to 1500 RPM.</li> </ul> <p><b>CORRECTION</b></p> <ul style="list-style-type: none"> <li>• Check line from reservoir for possible leaks.</li> <li>• Install suction line as short and straight as possible.</li> <li>• Increase suction line size.</li> <li>• Drain and replace with a low viscosity non-detergent oil.</li> <li>• Pump capacity is 16 GPM at 1000 RPM. Decrease PTO speed accordingly.</li> </ul>	<p><b>CONDITION 2</b> Erratic operation of conveyor and/or spinner.</p> <p><b>CAUSE</b></p> <ul style="list-style-type: none"> <li>• Low oil.</li> <li>• Worn or defective motor.</li> <li>• Dirty, worn or defective flow control valve.</li> <li>• Plugged filter.</li> <li>• Relief valve setting too low.</li> <li>• Pump cavitation.</li> <li>• Air vent on reservoir tank is blocked.</li> </ul> <p><b>CORRECTION</b></p> <ul style="list-style-type: none"> <li>• Fill reservoir to a <math>\frac{3}{4}</math> full level.</li> <li>• Repair or replace motor.</li> <li>• Clean, repair or replace flow control.</li> <li>• Replace filter element and clean filter.</li> <li>• Adjust relief valve for 1500 PSI.</li> <li>• Refer to pump section.</li> <li>• Clean or replace vent cap to admit atmospheric pressure to inside of the tank.</li> </ul>
<p><b>CONDITION 3</b> Slow operation of conveyor and/or spinner.</p> <p><b>CAUSE</b></p> <ul style="list-style-type: none"> <li>• Worn or defective pump.</li> <li>• Worn or defective motor.</li> <li>• Pump cavitation.</li> <li>• Insufficient pump speed.</li> </ul> <p><b>CORRECTION</b></p> <ul style="list-style-type: none"> <li>• Repair or replace pump.</li> <li>• Repair or replace motor.</li> <li>• Refer to pump section.</li> <li>• Pump capacity is 16 GPM at 1000 RPM. Increase PTO accordingly.</li> </ul>	<p><b>CONDITION 4</b> Conveyor and/or spinner will not operate.</p> <p><b>CAUSE</b></p> <ul style="list-style-type: none"> <li>• Quick disconnects are dirty, damaged, or improperly connected.</li> <li>• Hose connections wrong.</li> <li>• Foreign material in valve compensator.</li> </ul> <p><b>CORRECTION</b></p> <ul style="list-style-type: none"> <li>• Clean or replace and properly connect.</li> <li>• Refer to illustration.</li> <li>• Remove compensator and clean.</li> </ul>

# INSTALLATION INSTRUCTIONS

## PERMANENT CHASSIS MOUNT

1. Hardwood wear strips usually 1 x 3 (not furnished) must be fitted to the truck chassis.
2. The V-Box should be positioned on the wooden wear strips so that a distance of approximately 6" be left between the truck cab and the front of the V-Box. This will help facilitate any future servicing of the conveyor chain.
3. Parts of some side gussets may have to be cut out to clear the truck tires.
4. Hardware kits for permanent mount V-Boxes are used to attach the V-Box to the truck chassis.
5. **DO NOT** weld mounting angles to the truck frame. Doing so can cause fatigue-cracking of the truck frame. **DO NOT** drill holes in frame flanges.

## SLIP-IN V-BOXES

1. Remove and store the dump box tailgate.
2. Place the V-Box in the dump body and push as far forward as possible. Longmembers must overhang the rear by approximately 22". If the dump body is not flat, it is suggested that the V-Box be placed on two 1 x 6 hardwood boards. This will help to evenly distribute the weight of the loaded V-Box on all of the cross channels.
3. The spinner assembly is slid into place on the rear of the spreader. The top flanges of the spinner extension box rest on top of the bottom flanges of the spreader main and can be slid into place. Use the two pins attached to the rear enclosure to attach spinner to the v-box.
4. The four optional tie-down bolts are hooked into the holes in the body side gussets (two on each side). The tie-down clips are slipped under the rail of the dump box and the nut and jam nut tightened.

**NOTE:** If swing-up spinner is used, longmembers must overhang rear of dump body a minimum of approximately 22".



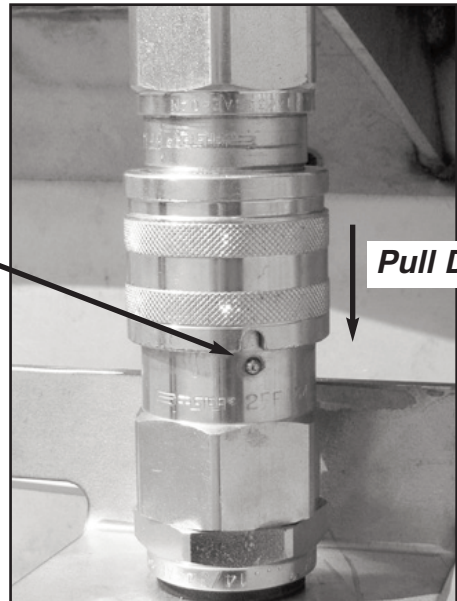
# HYDRAULIC INTERLOCK SHUTOFF



1. Interlock shown engaged to stop top screens from opening during operation.

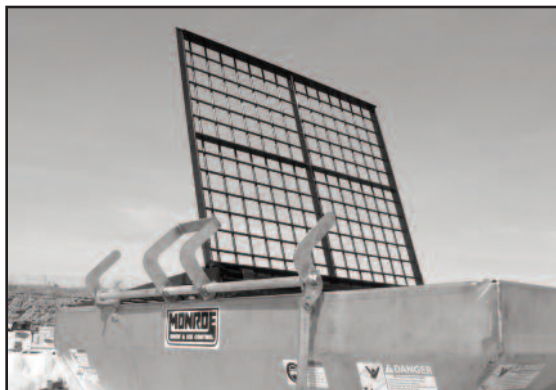
2. Align pin and notch.

3. Pull Collar down to disconnect.



4. Disconnect Hydraulics

**NOTE:** Never attempt to engage while top screens are open



*Interlock disengaged to allow top screens to open*

# OPERATING INSTRUCTIONS

## CAUTION:

- When starting up new equipment, be sure everyone is standing clear, watch for anything that may require shutting system down.
- Be sure lever on valve is moved completely to OFF position before working in or around spreading equipment.

## INITIAL START UP:

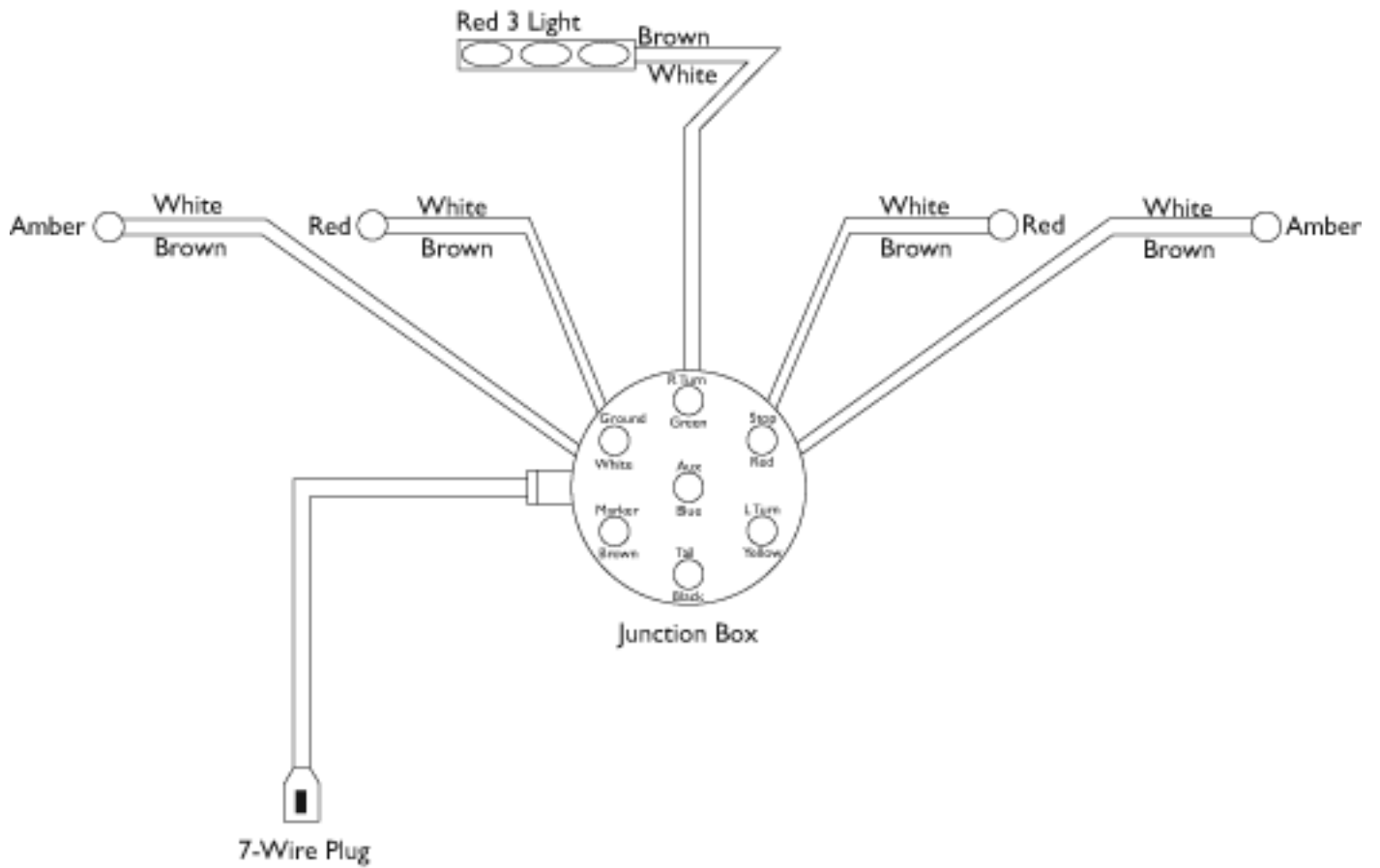
1. Fill reservoir about  $\frac{3}{4}$  full with high-grade non-foaming hydraulic oil. KEEP OIL CLEAN!
2. Move valve on-off lever to OFF position.
3. Open conveyor and spinner knobs on valve.
4. Engage PTO and allow hydraulic oil to circulate until warm (70-80 degrees F).
5. Move valve on-off lever to ON position.
6. Check entire hydraulic system for leaks.
7. Examine conveyor and spinner to see if they are running in right direction.
8. Fill reservoir to  $\frac{3}{4}$  full.
9. Hydraulic system is ready for use.

## SPREADER OPERATION:

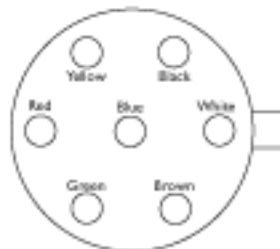
1. Start truck engine and allow hydraulic system to warm up by shutting off spinner and conveyor knobs and moving on-off lever to ON position.
2. Turning the knob marked "spinner" counter-clockwise will increase the spinner speed and width of spread.
3. Turning the knob marked "conveyor" counter-clockwise will increase the conveyor speed and thus the amount of material spread.
4. The gate on the rear of the box will also allow more material to pass to the spinner when opened wider.
5. The spread pattern can be controlled by rotating the entire spinner chute assembly 180°. If the material is dropped on the front of the disc it will be spread behind and to the right of the truck. If material is dropped on the rear of the disc it will be spread behind and to the left of the truck. The baffles inside the assembly will also further control the pattern left to right. Experimenting with the different positions will help to adjust the spread pattern as desired.
6. The control valve may be turned on and off or adjusted while truck is in motion.
7. Spinner and conveyor may be stopped at the same time without changing their valve settings by moving the on-off lever to OFF position.

# WIRING SCHEMATIC

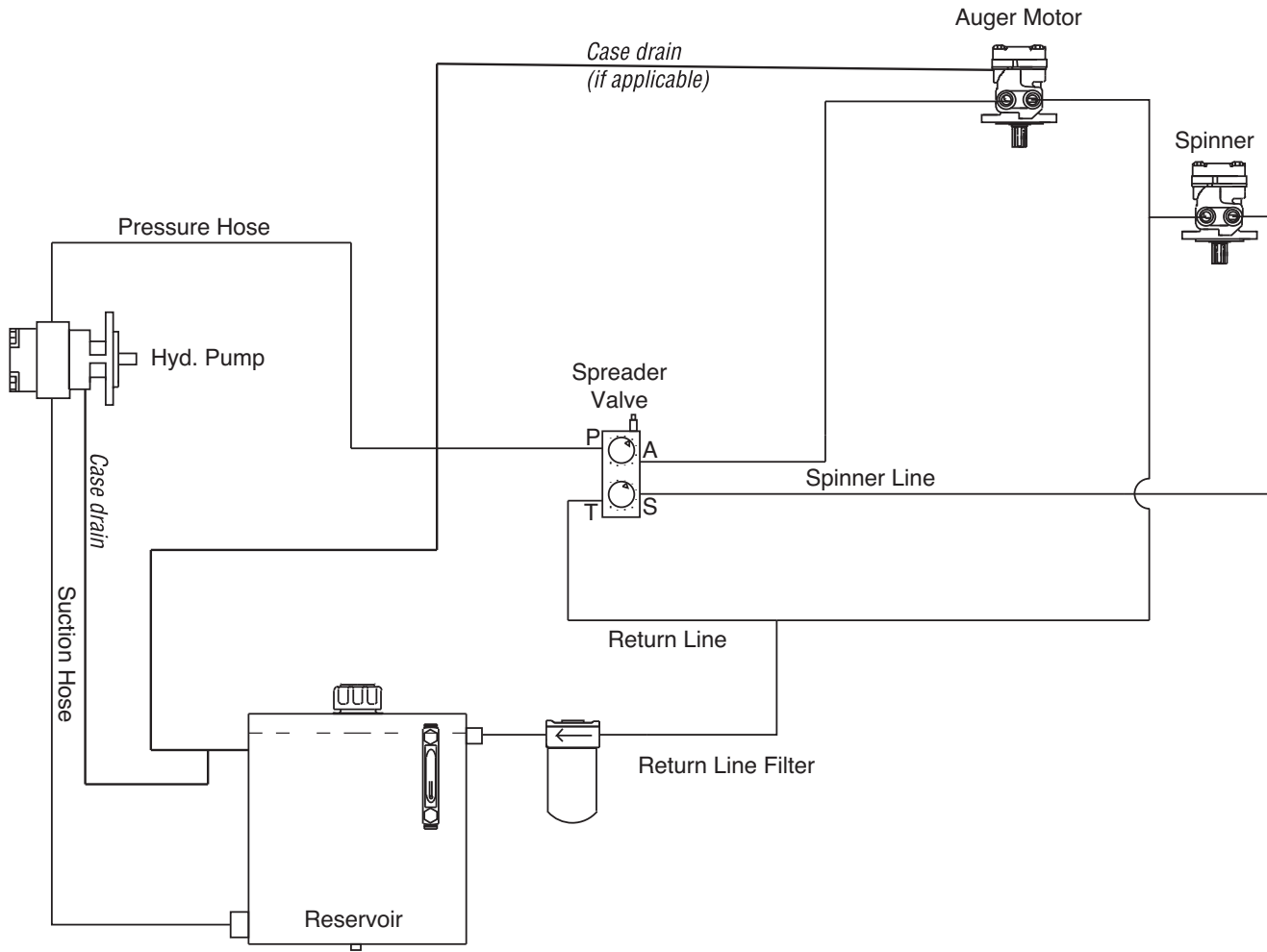
Install the lights and connect the wiring using the diagram below.



Matching View  
Cole Hersee Plug

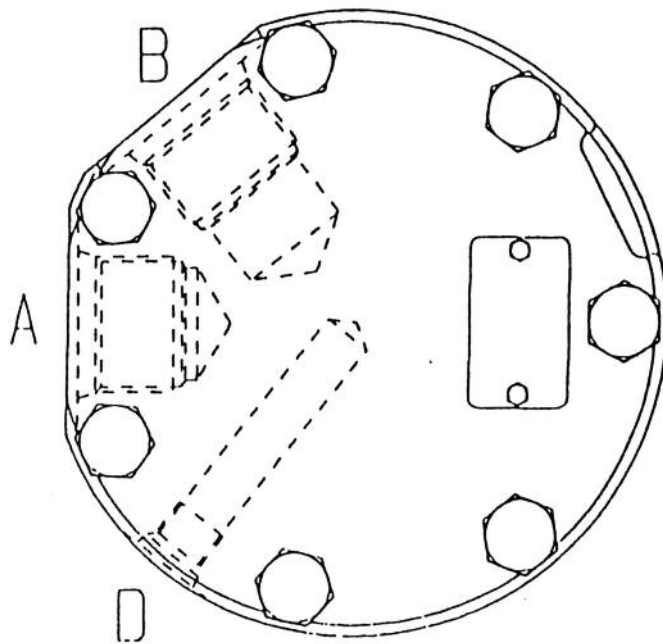


# HYDRAULIC SCHEMATICS



# PLUMBING SCHEMATIC

## DT Series Motors (Motor with Case Drain)



Pressurizing port "B" results in a clockwise shaft rotation as viewed from the shaft end

Drain line ( "D" ) must be routed back to tank

### **Case Drain Important Information:**

- All external case drains on motors must have a dedicated return hose to the oil tank.
  - Hose size must be as directed by the motor manufacturer.
  - Return connection (port) at tank should be just below normal oil level in tank.
  - Multiple case drains can be Tee'd into one port on an oil tank if done at the tank port.
  - The case drain circuit should not have a filter installed. If a filter is placed in the case drain circuit, the filter rating must be no less than 125 microns.
  - Maximum allowable peak backpressure on a case drain circuit is 15psig.
- √ The oil return hose on a motor with internal case drain shall be a dedicated circuit back to tank and not combined with other return circuits.
- Motors with internal case drains must not be connected in series.

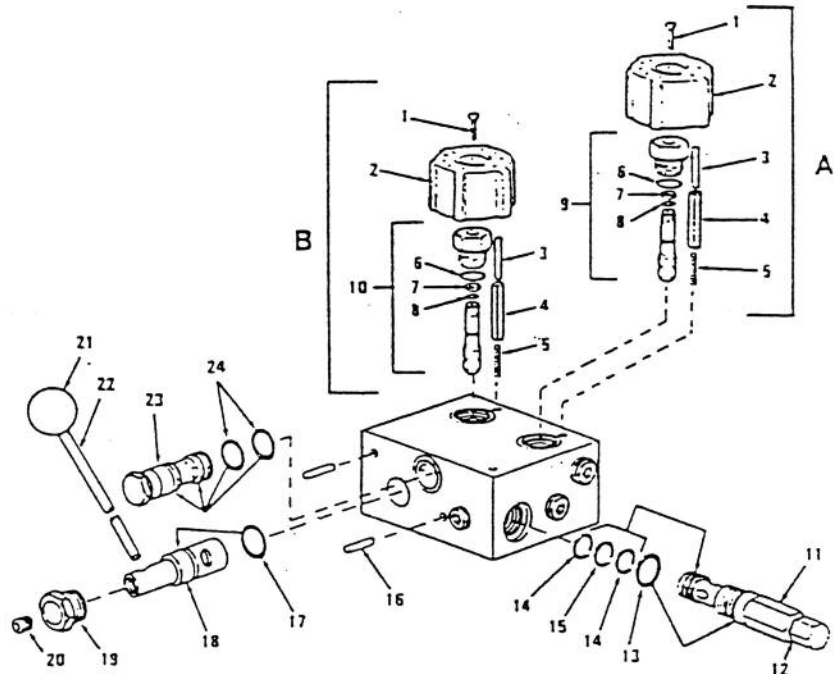
# FLOW CONTROL

## Fluid Controls

## Parts & Maintenance

Bulletin: SC25-2  
Effective: 8/89  
Supersedes: 8/86

Spreader Valves  
Series 2FFL12, 2FL12, 2FF12  
(New Design)



**NOTE:**

2FFL12 uses all items shown  
2FL12 uses only knob assembly A  
(Items 1-9) and (Items 11-24)  
2FF12 uses only knob assemblies  
A and B and Items 23 & 24

Item No.	Description	Part No.	Qty.	Kit No.
1	Screw	127056	2	
2	Handknob	296017	2	
3	Dowel Pin	243002	2	
4	Roll Pin	188918	2	
5	Spring	333019	2	
6	O-ring, Viton	134917	2	934938
7	Back-up, Teflon (for Adjust Assy)	142010	2	
8	O-ring, Viton	131905	2	
9	Auger Adjust Assy, 7 gpm	973253	1	
9	Auger Adjust Assy, 10 gpm	973248	1	
9	Auger Adjust Assy, 15 gpm	973247	1	
9	Auger Adjust Assy, 20 gpm	973214	1	
9	Auger Adjust Assy, 25 gpm	973213	1	
9	Auger Adjust Assy, 30 gpm	973211	1	
10	Spinner Adjust Assy, 5 gpm	973246	1	
10	Spinner Adjust Assy, 7 gpm	973210	1	
10	Spinner Adjust Assy, 10 gpm	973209	1	
11	Relief Carriage	1L10-F-25SV	1	800010SV
12	Gasket	201028	1	
13	O-ring, Viton (for 1L10)	132913	1	
14	Back-up, Teflon	144917	2	
15	O-ring, Viton	134904	1	
16	Roll Pin	180813	2	
17	O-ring (Dump Stem)	132911	1	
18	Stem	311161	1	
19	Plug	271032	1	
20	Set Screw	114002	1	
21	Handknob	296003	1	
22	Lever	531021A	1	
23	Bypass Assembly	973091	1	
24	O-ring, Viton (for 973091)	131214	2	

## V-BOX INFO / EXPLANATION

MSV  
↑  
1

96-84-50  
↑    ↑    ↑  
2    3    4

12/10, MS  
↑    ↑    ↑  
5    6    7

1. Model Type - MV or MSV
2. Length of V-Box (inches)
3. Width of V-Box (inches)
4. Height of V-Box (inches)
5. Hopper material thickness (gauge)
6. Longmember material thickness (gauge)
7. Material Type,      MS - Mild Steel  
                              409 SST - 409 Stainless Steel  
                              304 SST - 304 Stainless Steel

## ABBREVIATIONS

FR - Front  
RR - Rear  
SST - Stainless Steel  
MS - Mild Steel  
RH - Right Hand  
LH - Left Hand  
GA - Gauge  
ID - Inside Diameter  
OD - Outside Diameter  
KW - Key way  
CRG - Carriage (Bolt)  
C&W - Cad & Wax

# V-BOX SPECIFICATIONS

A standard MSV V-Box (Brute Model) includes:

- Replaceable chain covers
- A tip-up chute assembly
- $\frac{3}{8}$ " thick flites on the conveyor chain
- 2" drive and idler shafts and bearings

A standard MV V-box (Performer Model) includes:

- Formed chain covers
- A bolt-on chute assembly
- $\frac{1}{4}$ " thick flites on conveyor chain
- $1\frac{1}{2}$ " drive and idler shafts and bearings

Both models typically have:




- 7 GA longmembers and floors, or troughs
- 10 GA hopper and side gussets



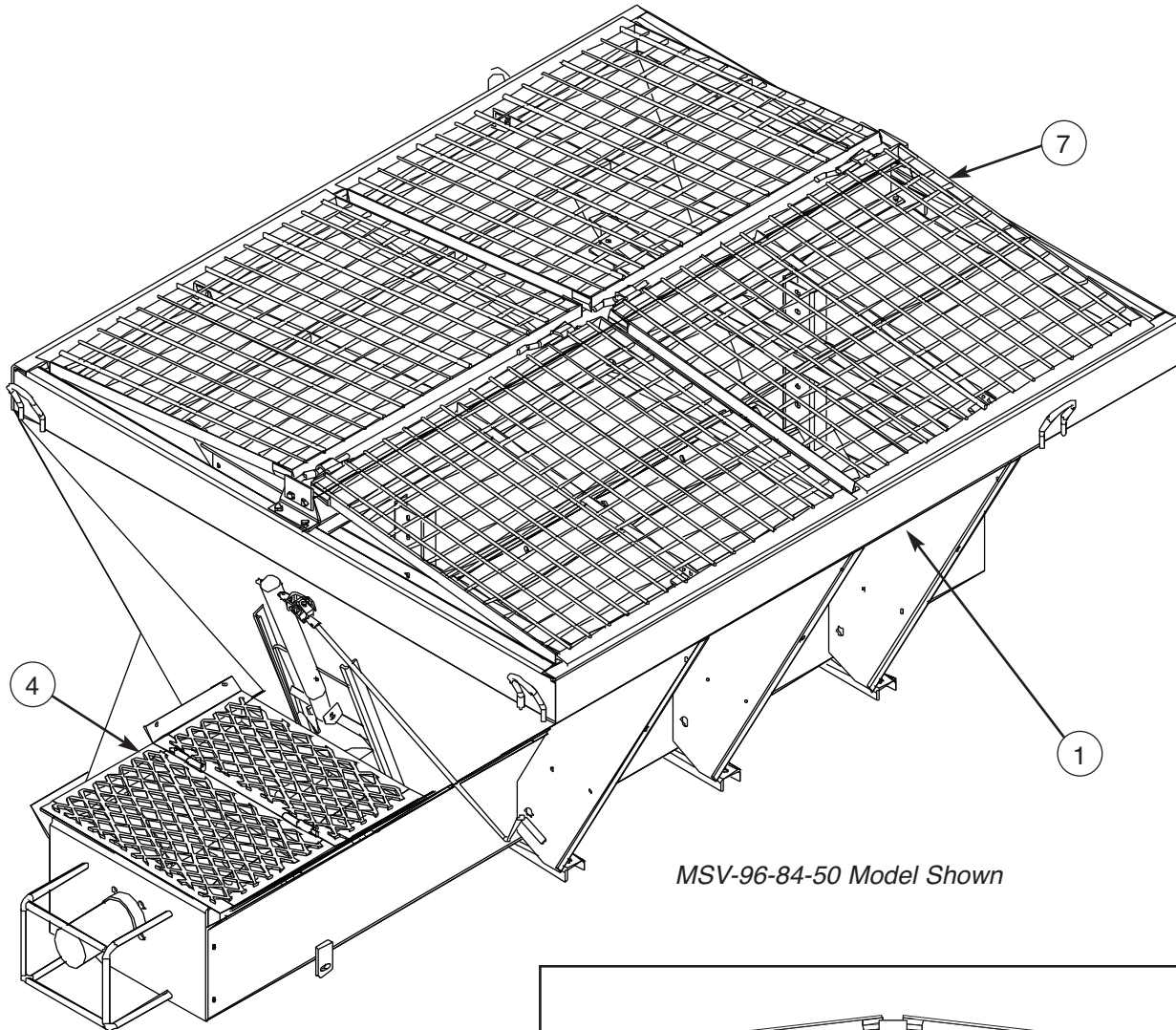
## GENERAL INFORMATION

- All references to right or left pertain to the spreader as viewed from the rear of the truck, looking in the direction of travel.
- Delivery of replacement parts is subject to our sales delivery terms.
- Use only **Monroe Truck Equipment** O.E.M. replacement parts. Failure to do so will void warranty.
- Replacement parts in this manual reflect our most common spreader items. If you do not find the part you require, please call your distributor.
- **Monroe Truck Equipment** reserves the right to make revisions or alterations to this parts manual.

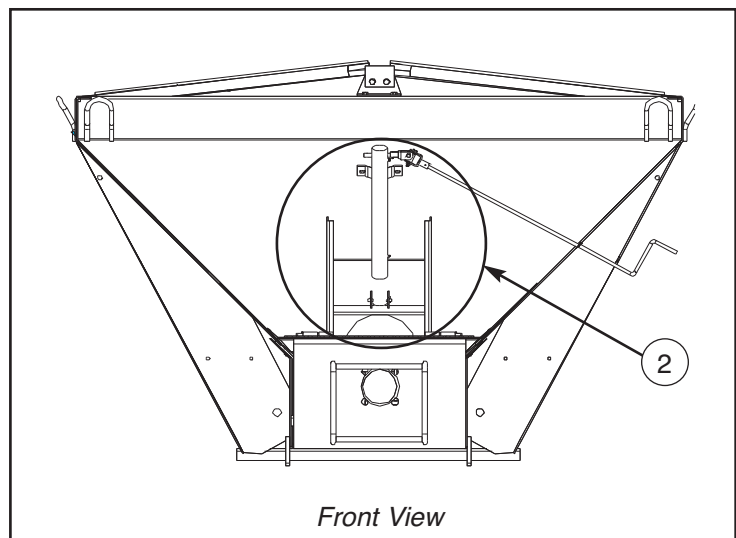
## TORQUE CHART

SIZE	 GRADE 2	 GRADE 5	 GRADE 8
1/4-20	50 IN-LBS	75 IN-LBS	9 FT-LBS
3/8-16	15 FT-LBS	23 FT-LBS	35 FT-LBS
1/2-13	35 FT-LBS	55 FT-LBS	80 FT-LBS
5/8-11	75 FT-LBS	110 FT-LBS	170 FT-LBS
3/4-10	130 FT-LBS	200 FT-LBS	280 FT-LBS
1-8	190 FT-LBS	480 FT-LBS	680 FT-LBS
1 1/4-7	380 FT-LBS	840 FT-LBS	1360 FT-LBS

# MSV SPREADERS, W/AUGER



*MSV-96-84-50 Model Shown*



*Front View*

Item	Qty	Part Number	Description
	1	00067044-A 00067044-B 00067052-A 00067052-B 00067060-A 00067060-B	HOPPER WELDMENT, MSV, 96-84-50, 12/10, MS HOPPER WELDMENT, MSV, 96-84-50, 10/7, MS HOPPER WELDMENT, MSV, 96-84-50, 12/10, 304 SST HOPPER WELDMENT, MSV, 96-84-50, 10/7, 304 SST HOPPER WELDMENT, MSV, 96-84-50, 12/10, 409 SST HOPPER WELDMENT, MSV, 96-84-50, 10/7, 409 SST
	1	00067046-A 00067046-B 00067054-A 00067054-B 00067062-A 00067062-B	HOPPER WELDMENT, MSV, 96-84-56, 12/10, MS HOPPER WELDMENT, MSV, 96-84-56, 10/7, MS HOPPER WELDMENT, MSV, 96-84-56, 12/10, 304 SST HOPPER WELDMENT, MSV, 96-84-56, 10/7, 304 SST HOPPER WELDMENT, MSV, 96-84-56, 12/10, 409 SST HOPPER WELDMENT, MSV, 96-84-56, 10/7, 409 SST
	1	00067048-A 00067048-B 00067056-A 00067056-B 00067064-A 00067064-B	HOPPER WELDMENT, MSV, 96-84-62, 12/10, MS HOPPER WELDMENT, MSV, 96-84-62, 10/7, MS HOPPER WELDMENT, MSV, 96-84-62, 12/10, 304 SST HOPPER WELDMENT, MSV, 96-84-62, 10/7, 304 SST HOPPER WELDMENT, MSV, 96-84-62, 12/10, 409 SST HOPPER WELDMENT, MSV, 96-84-62, 10/7, 409 SST
	1	00067050-A 00067050-B 00067058-A 00067058-B 00067066-A 00067066-B	HOPPER WELDMENT, MSV, 96-84-68, 12/10, MS HOPPER WELDMENT, MSV, 96-84-68, 10/7, MS HOPPER WELDMENT, MSV, 96-84-68, 12/10, 304 SST HOPPER WELDMENT, MSV, 96-84-68, 10/7, 304 SST HOPPER WELDMENT, MSV, 96-84-68, 12/10, 409 SST HOPPER WELDMENT, MSV, 96-84-68, 10/7, 409 SST
	1	00067036-A 00067036-B 00067068-A 00067068-B 00067076-A 00067076-B	HOPPER WELDMENT, MSV, 108-84-50, 12/10, MS HOPPER WELDMENT, MSV, 108-84-50, 10/7, MS HOPPER WELDMENT, MSV, 108-84-50, 12/10, 304 SST HOPPER WELDMENT, MSV, 108-84-50, 10/7, 304 SST HOPPER WELDMENT, MSV, 108-84-50, 12/10, 409 SST HOPPER WELDMENT, MSV, 108-84-50, 10/7, 409 SST
	1	00067038-A 00067038-B 00067070-A 00067070-B 00067078-A 00067078-B	HOPPER WELDMENT, MSV, 108-84-56, 12/10, MS HOPPER WELDMENT, MSV, 108-84-56, 10/7, MS HOPPER WELDMENT, MSV, 108-84-56, 12/10, 304 SST HOPPER WELDMENT, MSV, 108-84-56, 10/7, 304 SST HOPPER WELDMENT, MSV, 108-84-56, 12/10, 409 SST HOPPER WELDMENT, MSV, 108-84-56, 10/7, 409 SST
	1	00067040-A 00067040-B 00067072-A 00067072-B 00067080-A 00067080-B	HOPPER WELDMENT, MSV, 108-84-62, 12/10, MS HOPPER WELDMENT, MSV, 108-84-62, 10/7, MS HOPPER WELDMENT, MSV, 108-84-62, 12/10, 304 SST HOPPER WELDMENT, MSV, 108-84-62, 10/7, 304 SST HOPPER WELDMENT, MSV, 108-84-62, 12/10, 409 SST HOPPER WELDMENT, MSV, 108-84-62, 10/7, 409 SST
	1	00067042-A 00067042-B 00067074-A 00067074-B 00067082-A 00067082-B	HOPPER WELDMENT, MSV, 108-84-68, 12/10, MS HOPPER WELDMENT, MSV, 108-84-68, 10/7, MS HOPPER WELDMENT, MSV, 108-84-68, 12/10, 304 SST HOPPER WELDMENT, MSV, 108-84-68, 10/7, 304 SST HOPPER WELDMENT, MSV, 108-84-68, 12/10, 409 SST HOPPER WELDMENT, MSV, 108-84-68, 10/7, 409 SST

Item	Qty	Part Number	Description
	1	00067028-A 00067028-B 00067084-A 00067084-B 00067092-A 00067092-B	HOPPER WELDMENT, MSV, 120-84-50, 12/10, MS HOPPER WELDMENT, MSV, 120-84-50, 10/7, MS HOPPER WELDMENT, MSV, 120-84-50, 12/10, 304 SST HOPPER WELDMENT, MSV, 120-84-50, 10/7, 304 SST HOPPER WELDMENT, MSV, 120-84-50, 12/10, 409 SST HOPPER WELDMENT, MSV, 120-84-50, 10/7, 409 SST
	1	00067030-A 00067030-B 00067086-A 00067086-B 00067094-A 00067094-B	HOPPER WELDMENT, MSV, 120-84-56, 12/10, MS HOPPER WELDMENT, MSV, 120-84-56, 10/7, MS HOPPER WELDMENT, MSV, 120-84-56, 12/10, 304 SST HOPPER WELDMENT, MSV, 120-84-56, 10/7, 304 SST HOPPER WELDMENT, MSV, 120-84-56, 12/10, 409 SST HOPPER WELDMENT, MSV, 120-84-56, 10/7, 409 SST
	1	00067032-A 00067032-B 00067088-A 00067088-B 00067096-A 00067096-B	HOPPER WELDMENT, MSV, 120-84-62, 12/10, MS HOPPER WELDMENT, MSV, 120-84-62, 10/7, MS HOPPER WELDMENT, MSV, 120-84-62, 12/10, 304 SST HOPPER WELDMENT, MSV, 120-84-62, 10/7, 304 SST HOPPER WELDMENT, MSV, 120-84-62, 12/10, 409 SST HOPPER WELDMENT, MSV, 120-84-62, 10/7, 409 SST
	1	00067034-A 00067034-B 00067090-A 00067090-B 00067098-A 00067098-B	HOPPER WELDMENT, MSV, 120-84-68, 12/10, MS HOPPER WELDMENT, MSV, 120-84-68, 10/7, MS HOPPER WELDMENT, MSV, 120-84-68, 12/10, 304 SST HOPPER WELDMENT, MSV, 120-84-68, 10/7, 304 SST HOPPER WELDMENT, MSV, 120-84-68, 12/10, 409 SST HOPPER WELDMENT, MSV, 120-84-68, 10/7, 409 SST
	1	00067020-A 00067020-B 00067300-A 00067300-B 00067308-A 00067308-B	HOPPER WELDMENT, MSV, 132-84-50, 12/10, MS HOPPER WELDMENT, MSV, 132-84-50, 10/7, MS HOPPER WELDMENT, MSV, 132-84-50, 12/10, 304 SST HOPPER WELDMENT, MSV, 132-84-50, 10/7, 304 SST HOPPER WELDMENT, MSV, 132-84-50, 12/10, 409 SST HOPPER WELDMENT, MSV, 132-84-50, 10/7, 409 SST
	1	00067022-A 00067022-B 00067302-A 00067302-B 00067310-A 00067310-B	HOPPER WELDMENT, MSV, 132-84-56, 12/10, MS HOPPER WELDMENT, MSV, 132-84-56, 10/7, MS HOPPER WELDMENT, MSV, 132-84-56, 12/10, 304 SST HOPPER WELDMENT, MSV, 132-84-56, 10/7, 304 SST HOPPER WELDMENT, MSV, 132-84-56, 12/10, 409 SST HOPPER WELDMENT, MSV, 132-84-56, 10/7, 409 SST
	1	00067024-A 00067024-B 00067304-A 00067304-B 00067312-A 00067312-B	HOPPER WELDMENT, MSV, 132-84-62, 12/10, MS HOPPER WELDMENT, MSV, 132-84-62, 10/7, MS HOPPER WELDMENT, MSV, 132-84-62, 12/10, 304 SST HOPPER WELDMENT, MSV, 132-84-62, 10/7, 304 SST HOPPER WELDMENT, MSV, 132-84-62, 12/10, 409 SST HOPPER WELDMENT, MSV, 132-84-62, 10/7, 409 SST
	1	00067026-A 00067026-B 00067306-A 00067306-B 00067314-A 00067314-B	HOPPER WELDMENT, MSV, 132-84-68, 12/10, MS HOPPER WELDMENT, MSV, 132-84-68, 10/7, MS HOPPER WELDMENT, MSV, 132-84-68, 12/10, 304 SST HOPPER WELDMENT, MSV, 132-84-68, 10/7, 304 SST HOPPER WELDMENT, MSV, 132-84-68, 12/10, 409 SST HOPPER WELDMENT, MSV, 132-84-68, 10/7, 409 SST

Item	Qty	Part Number	Description
	1	00067012-A 00067012-B 00067316-A 00067316-B 00067324-A 00067324-B	HOPPER WELDMENT, MSV, 144-84-50, 12/10, MS HOPPER WELDMENT, MSV, 144-84-50, 10/7, MS HOPPER WELDMENT, MSV, 144-84-50, 12/10, 304 SST HOPPER WELDMENT, MSV, 144-84-50, 10/7, 304 SST HOPPER WELDMENT, MSV, 144-84-50, 12/10, 409 SST HOPPER WELDMENT, MSV, 144-84-50, 10/7, 409 SST
	1	00067014-A 00067014-B 00067318-A 00067318-B 00067326-A 00067326-B	HOPPER WELDMENT, MSV, 144-84-56, 12/10, MS HOPPER WELDMENT, MSV, 144-84-56, 10/7, MS HOPPER WELDMENT, MSV, 144-84-56, 12/10, 304 SST HOPPER WELDMENT, MSV, 144-84-56, 10/7, 304 SST HOPPER WELDMENT, MSV, 144-84-56, 12/10, 409 SST HOPPER WELDMENT, MSV, 144-84-56, 10/7, 409 SST
	1	00067016-A 00067016-B 00067320-A 00067320-B 00067328-A 00067328-B	HOPPER WELDMENT, MSV, 144-84-62, 12/10, MS HOPPER WELDMENT, MSV, 144-84-62, 10/7, MS HOPPER WELDMENT, MSV, 144-84-62, 12/10, 304 SST HOPPER WELDMENT, MSV, 144-84-62, 10/7, 304 SST HOPPER WELDMENT, MSV, 144-84-62, 12/10, 409 SST HOPPER WELDMENT, MSV, 144-84-62, 10/7, 409 SST
	1	00067018-A 00067018-B 00067322-A 00067322-B 00067330-A 00067330-B	HOPPER WELDMENT, MSV, 144-84-68, 12/10, MS HOPPER WELDMENT, MSV, 144-84-68, 10/7, MS HOPPER WELDMENT, MSV, 144-84-68, 12/10, 304 SST HOPPER WELDMENT, MSV, 144-84-68, 10/7, 304 SST HOPPER WELDMENT, MSV, 144-84-68, 12/10, 409 SST HOPPER WELDMENT, MSV, 144-84-68, 10/7, 409 SST
	1	00065941-A 00065941-B 00067332-A 00067332-B 00067338-A 00067338-B	HOPPER WELDMENT, MSV, 156-84-50, 12/10, MS HOPPER WELDMENT, MSV, 156-84-50, 10/7, MS HOPPER WELDMENT, MSV, 156-84-50, 12/10, 304 SST HOPPER WELDMENT, MSV, 156-84-50, 10/7, 304 SST HOPPER WELDMENT, MSV, 156-84-50, 12/10, 409 SST HOPPER WELDMENT, MSV, 156-84-50, 10/7, 409 SST
	1	00065942-A 00065942-B 00067334-A 00067334-B 00067340-A 00067340-B	HOPPER WELDMENT, MSV, 156-84-56, 12/10, MS HOPPER WELDMENT, MSV, 156-84-56, 10/7, MS HOPPER WELDMENT, MSV, 156-84-56, 12/10, 304 SST HOPPER WELDMENT, MSV, 156-84-56, 10/7, 304 SST HOPPER WELDMENT, MSV, 156-84-56, 12/10, 409 SST HOPPER WELDMENT, MSV, 156-84-56, 10/7, 409 SST
	1	00056583-A 00056583-B 00056245-A 00056245-B 00059581-A 00059581-B	HOPPER WELDMENT, MSV, 156-84-62, 12/10, MS HOPPER WELDMENT, MSV, 156-84-62, 10/7, MS HOPPER WELDMENT, MSV, 156-84-62, 12/10, 304 SST HOPPER WELDMENT, MSV, 156-84-62, 10/7, 304 SST HOPPER WELDMENT, MSV, 156-84-62, 12/10, 409 SST HOPPER WELDMENT, MSV, 156-84-62, 10/7, 409 SST
	1	00065948-A 00065948-B 00067336-A 00067336-B 00067342-A 00067342-B	HOPPER WELDMENT, MSV, 156-84-68, 12/10, MS HOPPER WELDMENT, MSV, 156-84-68, 10/7, MS HOPPER WELDMENT, MSV, 156-84-68, 12/10, 304 SST HOPPER WELDMENT, MSV, 156-84-68, 10/7, 304 SST HOPPER WELDMENT, MSV, 156-84-68, 12/10, 409 SST HOPPER WELDMENT, MSV, 156-84-68, 10/7, 409 SST

Item	Qty	Part Number	Description
	1	00067008-A 00067008-B 00067344-A 00067344-B 00067352-A 00067352-B	HOPPER WELDMENT, MSV, 168-84-50, 12/10, MS HOPPER WELDMENT, MSV, 168-84-50, 10/7, MS HOPPER WELDMENT, MSV, 168-84-50, 12/10, 304 SST HOPPER WELDMENT, MSV, 168-84-50, 10/7, 304 SST HOPPER WELDMENT, MSV, 168-84-50, 12/10, 409 SST HOPPER WELDMENT, MSV, 168-84-50, 10/7, 409 SST
	1	00067006-A 00067006-B 00067346-A 00067346-B 00067354-A 00067354-B	HOPPER WELDMENT, MSV, 168-84-56, 12/10, MS HOPPER WELDMENT, MSV, 168-84-56, 10/7, MS HOPPER WELDMENT, MSV, 168-84-56, 12/10, 304 SST HOPPER WELDMENT, MSV, 168-84-56, 10/7, 304 SST HOPPER WELDMENT, MSV, 168-84-56, 12/10, 409 SST HOPPER WELDMENT, MSV, 168-84-56, 10/7, 409 SST
	1	00067004-A 00067004-B 00067348-A 00067348-B 00067356-A 00067356-B	HOPPER WELDMENT, MSV, 168-84-62, 12/10, MS HOPPER WELDMENT, MSV, 168-84-62, 10/7, MS HOPPER WELDMENT, MSV, 168-84-62, 12/10, 304 SST HOPPER WELDMENT, MSV, 168-84-62, 10/7, 304 SST HOPPER WELDMENT, MSV, 168-84-62, 12/10, 409 SST HOPPER WELDMENT, MSV, 168-84-62, 10/7, 409 SST
	1	00067010-A 00067010-B 00067350-A 00067350-B 00067358-A 00067358-B	HOPPER WELDMENT, MSV, 168-84-68, 12/10, MS HOPPER WELDMENT, MSV, 168-84-68, 10/7, MS HOPPER WELDMENT, MSV, 168-84-68, 12/10, 304 SST HOPPER WELDMENT, MSV, 168-84-68, 10/7, 304 SST HOPPER WELDMENT, MSV, 168-84-68, 12/10, 409 SST HOPPER WELDMENT, MSV, 168-84-68, 10/7, 409 SST
	1	00065996-A 00065996-B 00067360-A 00067360-B 00067368-A 00067368-B	HOPPER WELDMENT, MSV, 180-84-50, 12/10, MS HOPPER WELDMENT, MSV, 180-84-50, 10/7, MS HOPPER WELDMENT, MSV, 180-84-50, 12/10, 304 SST HOPPER WELDMENT, MSV, 180-84-50, 10/7, 304 SST HOPPER WELDMENT, MSV, 180-84-50, 12/10, 409 SST HOPPER WELDMENT, MSV, 180-84-50, 10/7, 409 SST
	1	00065998-A 00065998-B 00067362-A 00067362-B 00067370-A 00067370-B	HOPPER WELDMENT, MSV, 180-84-56, 12/10, MS HOPPER WELDMENT, MSV, 180-84-56, 10/7, MS HOPPER WELDMENT, MSV, 180-84-56, 12/10, 304 SST HOPPER WELDMENT, MSV, 180-84-56, 10/7, 304 SST HOPPER WELDMENT, MSV, 180-84-56, 12/10, 409 SST HOPPER WELDMENT, MSV, 180-84-56, 10/7, 409 SST
	1	00067000-A 00067000-B 00067364-A 00067364-B 00067372-A 00067372-B	HOPPER WELDMENT, MSV, 180-84-62, 12/10, MS HOPPER WELDMENT, MSV, 180-84-62, 10/7, MS HOPPER WELDMENT, MSV, 180-84-62, 12/10, 304 SST HOPPER WELDMENT, MSV, 180-84-62, 10/7, 304 SST HOPPER WELDMENT, MSV, 180-84-62, 12/10, 409 SST HOPPER WELDMENT, MSV, 180-84-62, 10/7, 409 SST
	1	00067002-A 00067002-B 00067366-A 00067366-B 00067374-A 00067374-B	HOPPER WELDMENT, MSV, 180-84-68, 12/10, MS HOPPER WELDMENT, MSV, 180-84-68, 10/7, MS HOPPER WELDMENT, MSV, 180-84-68, 12/10, 304 SST HOPPER WELDMENT, MSV, 180-84-68, 10/7, 304 SST HOPPER WELDMENT, MSV, 180-84-68, 12/10, 409 SST HOPPER WELDMENT, MSV, 180-84-68, 10/7, 409 SST

Item	Qty	Part Number	Description
	1	00065959-A 00065959-B 00067376-A 00067376-B 00067384-A 00067384-B	HOPPER WELDMENT, MSV, 192-84-50, 12/10, MS HOPPER WELDMENT, MSV, 192-84-50, 10/7, MS HOPPER WELDMENT, MSV, 192-84-50, 12/10, 304 SST HOPPER WELDMENT, MSV, 192-84-50, 10/7, 304 SST HOPPER WELDMENT, MSV, 192-84-50, 12/10, 409 SST HOPPER WELDMENT, MSV, 192-84-50, 10/7, 409 SST
	1	00065990-A 00065990-B 00067378-A 00067378-B 00067386-A 00067386-B	HOPPER WELDMENT, MSV, 192-84-56, 12/10, MS HOPPER WELDMENT, MSV, 192-84-56, 10/7, MS HOPPER WELDMENT, MSV, 192-84-56, 12/10, 304 SST HOPPER WELDMENT, MSV, 192-84-56, 10/7, 304 SST HOPPER WELDMENT, MSV, 192-84-56, 12/10, 409 SST HOPPER WELDMENT, MSV, 192-84-56, 10/7, 409 SST
	1	00065992-A 00065992-B 00067380-A 00067380-B 00067388-A 00067388-B	HOPPER WELDMENT, MSV, 192-84-62, 12/10, MS HOPPER WELDMENT, MSV, 192-84-62, 10/7, MS HOPPER WELDMENT, MSV, 192-84-62, 12/10, 304 SST HOPPER WELDMENT, MSV, 192-84-62, 10/7, 304 SST HOPPER WELDMENT, MSV, 192-84-62, 12/10, 409 SST HOPPER WELDMENT, MSV, 192-84-62, 10/7, 409 SST
	1	00065994-A 00065994-B 00067382-A 00067382-B 00067390-A 00067390-B	HOPPER WELDMENT, MSV, 192-84-68, 12/10, MS HOPPER WELDMENT, MSV, 192-84-68, 10/7, MS HOPPER WELDMENT, MSV, 192-84-68, 12/10, 304 SST HOPPER WELDMENT, MSV, 192-84-68, 10/7, 304 SST HOPPER WELDMENT, MSV, 192-84-68, 12/10, 409 SST HOPPER WELDMENT, MSV, 192-84-68, 10/7, 409 SST
	1	00065957-A 00065957-B 00067392-A 00067392-B 00067500-A 00067500-B	HOPPER WELDMENT, MSV, 204-84-50, 12/10, MS HOPPER WELDMENT, MSV, 204-84-50, 10/7, MS HOPPER WELDMENT, MSV, 204-84-50, 12/10, 304 SST HOPPER WELDMENT, MSV, 204-84-50, 10/7, 304 SST HOPPER WELDMENT, MSV, 204-84-50, 12/10, 409 SST HOPPER WELDMENT, MSV, 204-84-50, 10/7, 409 SST
	1	00065950-A 00065950-B 00067394-A 00067394-B 00067502-A 00067502-B	HOPPER WELDMENT, MSV, 204-84-56, 12/10, MS HOPPER WELDMENT, MSV, 204-84-56, 10/7, MS HOPPER WELDMENT, MSV, 204-84-56, 12/10, 304 SST HOPPER WELDMENT, MSV, 204-84-56, 10/7, 304 SST HOPPER WELDMENT, MSV, 204-84-56, 12/10, 409 SST HOPPER WELDMENT, MSV, 204-84-56, 10/7, 409 SST
	1	00065952-A 00065952-B 00067396-A 00067396-B 00067504-A 00067504-B	HOPPER WELDMENT, MSV, 204-84-62, 12/10, MS HOPPER WELDMENT, MSV, 204-84-62, 10/7, MS HOPPER WELDMENT, MSV, 204-84-62, 12/10, 304 SST HOPPER WELDMENT, MSV, 204-84-62, 10/7, 304 SST HOPPER WELDMENT, MSV, 204-84-62, 12/10, 409 SST HOPPER WELDMENT, MSV, 204-84-62, 10/7, 409 SST
	1	00065954-A 00065954-B 00067398-A 00067398-B 00067506-A 00067506-B	HOPPER WELDMENT, MSV, 204-84-68, 12/10, MS HOPPER WELDMENT, MSV, 204-84-68, 10/7, MS HOPPER WELDMENT, MSV, 204-84-68, 12/10, 304 SST HOPPER WELDMENT, MSV, 204-84-68, 10/7, 304 SST HOPPER WELDMENT, MSV, 204-84-68, 12/10, 409 SST HOPPER WELDMENT, MSV, 204-84-68, 10/7, 409 SST

### MSV SPREADERS, W/ AUGER

Item	Qty	Part Number	Description
2	1	<i>See page 23</i>	DOOR KITS
3	1	<i>See page 24-27</i>	DRIVE KITS
4	1	<i>See page 28-29</i>	AUGER GUARD
5	1	<i>See page 30-31</i>	TROUGH KITS
6	1	<i>See page 32</i>	AUGER WELDMENT
7	1	<i>See page 33-42</i>	TOP GRATE KITS, 8'-17'
8	1	<i>See page 43</i>	TOP GRATE LOCK KIT, 8'-17'
9	1	<i>See page 46-47</i>	INVERTED V KIT

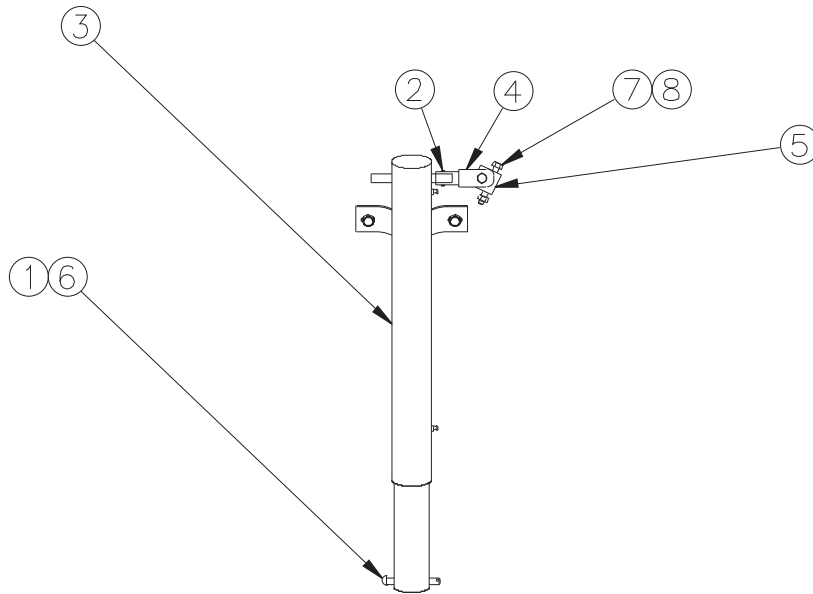
**Note:** Door kits were discontinued after April 2006. No bodies built after this date had doors unless special ordered.



# DOOR KITS MSV

## DOOR KIT, RR, AUGER

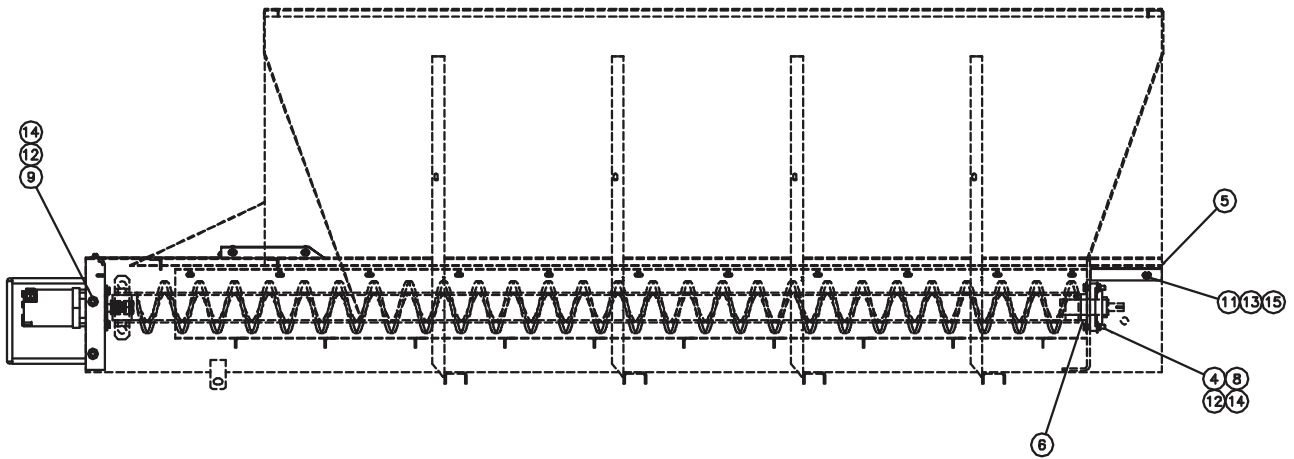
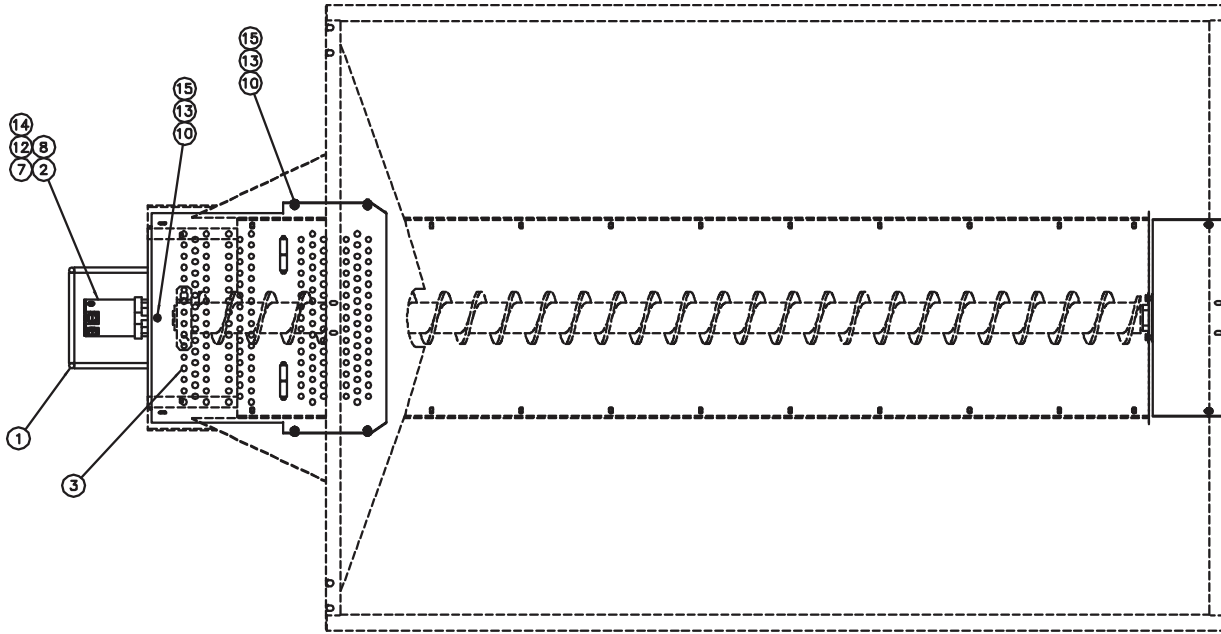
Item	Qty	Part Number	Description
1	1	00028446-A 00028446-B 00028446-C	DOOR WELDMENT, REAR, MS, 10GAUGE DOOR WELDMENT, REAR, 304 SST, 10 GAUGE DOOR WELDMENT, REAR, 409 SST, 10 GAUGE
2	1	00012233	JACK ASSEMBLY, DOOR (SEE BELOW)
3	1	00052283 00052285	CRANK ASSEMBLY, JACK 39, MS CRANK ASSEMBLY, JACK 39, 304 SST
4	2	05010643 05016034	BOLT, .375-16 X 1, G8, HHCS, ZINC BOLT, .375-16 X 1, HHCS, SST
5	2	05020898 05020891	NUT, .375-16, TOP LOCK, C&W NUT, .375-16, NYLON LOCK, SST
6	2	05021307 05021390	WASHER, .375, FLAT, ZINC WASHER, .375, FLAT, SST



## 00012233 JACK ASSEMBLY, DOOR

Item	Qty	Part Number	Description
1	1	05022134	PIN, .375 DIA X 3 OAL, CLEVIS, ZINC
2	1	05022072	PIN, .1563 X .875, ROLL, ZINC
3	1	00083703	JACK, DOOR NEW STYLE, UNIVERSAL
4	1	05050258	CLEVIS, DOOR JACK
5	1	05051455	UNIVERSAL JOINT, UHMW, 1.25 SQUARE
6	1	05022021	PIN, .125 X 1, COTTER
7	2	05016143	BOLT, .3125 X 18 X 2.25, G8, HHCS, SST
8	2	05020907	NUT, .3125 X 18, GC, TOP LOCK, C&W

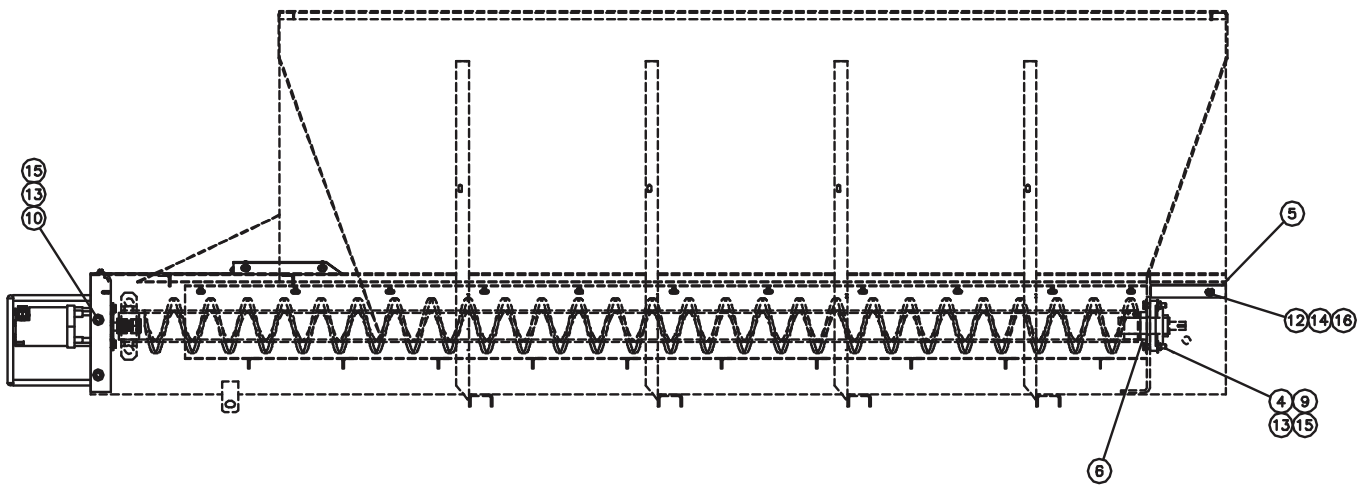
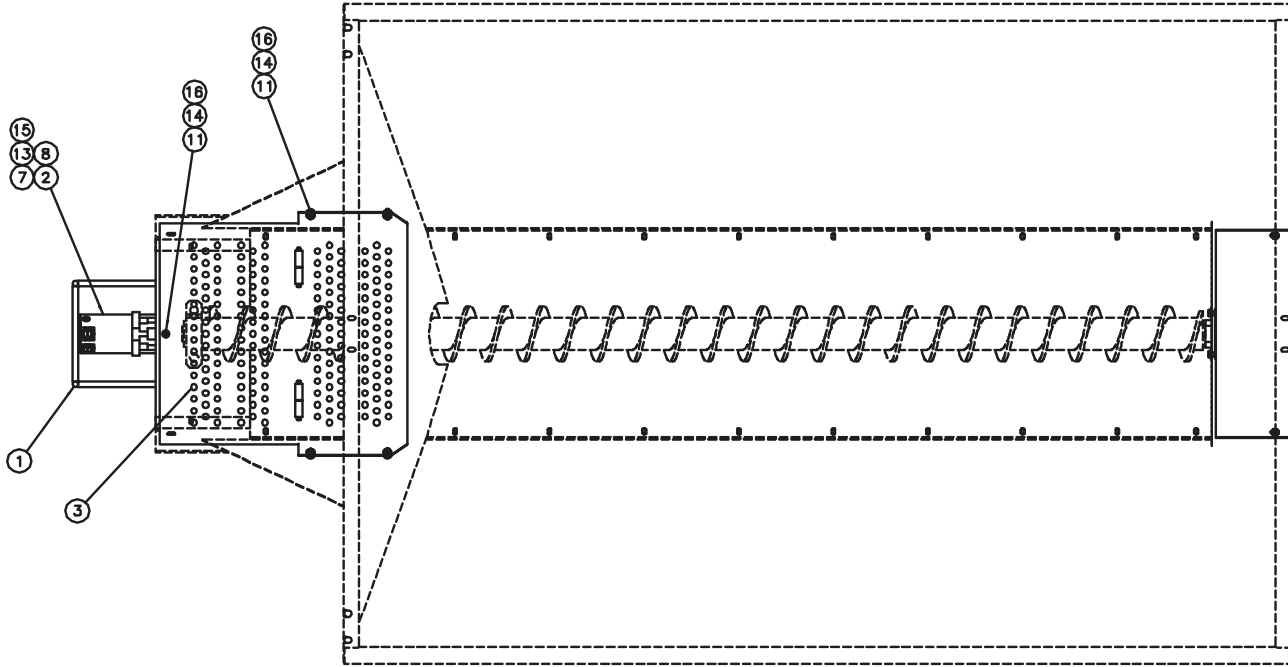
# DRIVE KITS MSV



**Note: Auger model v-boxes built prior to January 2009 used motor 05006128 and motor cage weldment 00057001-B**

**00064291 DRIVE KIT, AUGER**

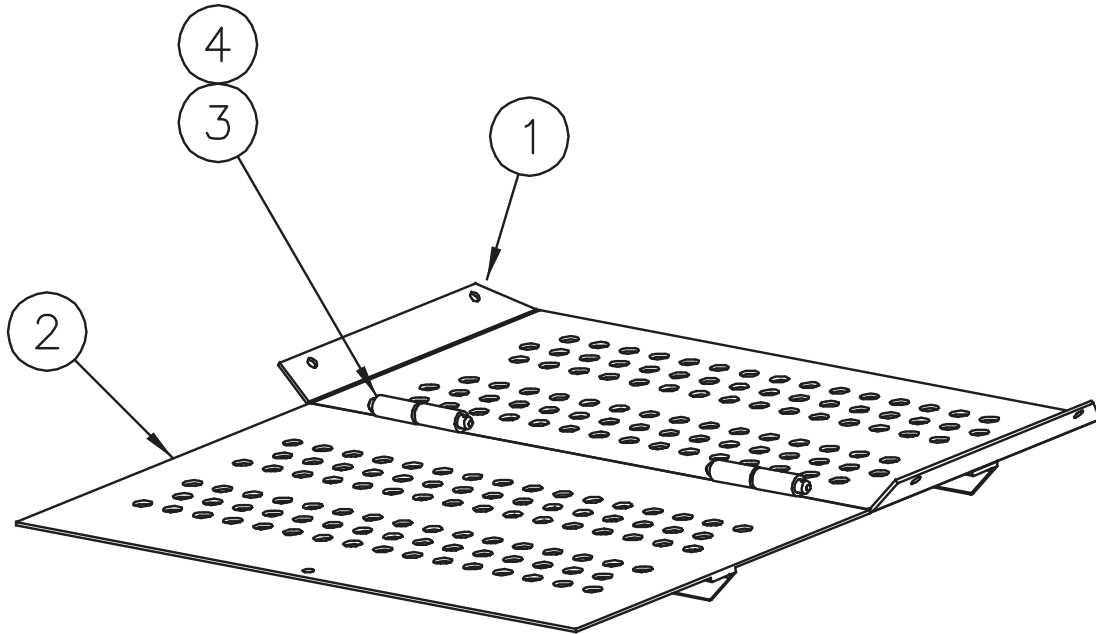
<b>Item</b>	<b>Qty.</b>	<b>Part Number</b>	<b>Description</b>
1	1	00125911-A	CAGE WLDMT,MTR MT,MSV,AUGER,MS (NOTE1)
1	1	00125911-B	CAGE WLDMT,MTR MT,MSV,AUGER,304 (NOTE1)
2	1	05006445	MOTOR,HYD,WHITE,66CI,4B,14T, .0625 (NOTE1) <i>See Page 94-95</i>
3	1	00125908-A	GUARD ASSY,AUGER,MSV,MS <i>See Page 28</i>
3	1	00125908-B	GUARD ASSY,AUGER,MSV,304
3	1	00125908-C	GUARD ASSY,AUGER,MSV,304L
3	1	00125908-D	GUARD ASSY,AUGER,MSV,AUSST
5	1	00026209-A	COVER,FRONT BEARING,MSV,AUGER,MS
5	1	00026209-B	COVER,FRONT BEARING,MSV,AUGER,304
5	1	00026209-C	COVER,FRONT BEARING,MSV,AUGER,304L
5	1	00026209-D	COVER,FRONT BEARING,MSV,AUGER,AUSST
6	1	00012265	BUSHING,MSV AUGER DRIVE,3.5"ODx2"IDx.875
7	4	00049931-A	PIPE,MS,.500xSCH80x.500,A53,TYPE F
7	4	00049931-B	PIPE,SS,.500xSCH80x.500,304
8	8	05010695	BOLT .500-13 x 2.50 G8 HHCS ZC
8	8	05016207	BOLT .500-13 x 2.50 HHCS SST
9	4	05010691	BOLT .500-13 x 1.50 G8 HHCS ZC
9	4	05016096	BOLT .500-13 x 1.50 HHCS SST
10	5	05010644	BOLT .375-16 x 1.25 G8 HHCS ZC
10	5	05016049	BOLT .375-16 x 1.25 HHCS SST
11	2	05010643	BOLT .375-16 x 1.00 G8 HHCS ZC
11	2	Q5016034	BOLT .375-16 x 1.00 HHCS SST
12	12	05020847	NUT .500-13 GC TOPLOCK C&W
12	12	05020908	NUT .500-13 NYLON LOCK 316 SST
13	7	05020891	NUT .375-16 NYLON LOCK 316 SST
13	7	05020898	NUT .375-16 GC TOPLOCK C&W
14	24	05021309	WASHER .500 FLAT ZC
14	24	05021391	WASHER .500 FLAT SST
15	14	05021307	WASHER .375 FLAT ZC
15	14	05021390	WASHER .375 FLAT SST
16	.25	05051390	RUST PROOFER HEAVY DUTY



**00124312 DRIVE KIT,MSV AUGER,304L,SP SNSR,SS HDW**

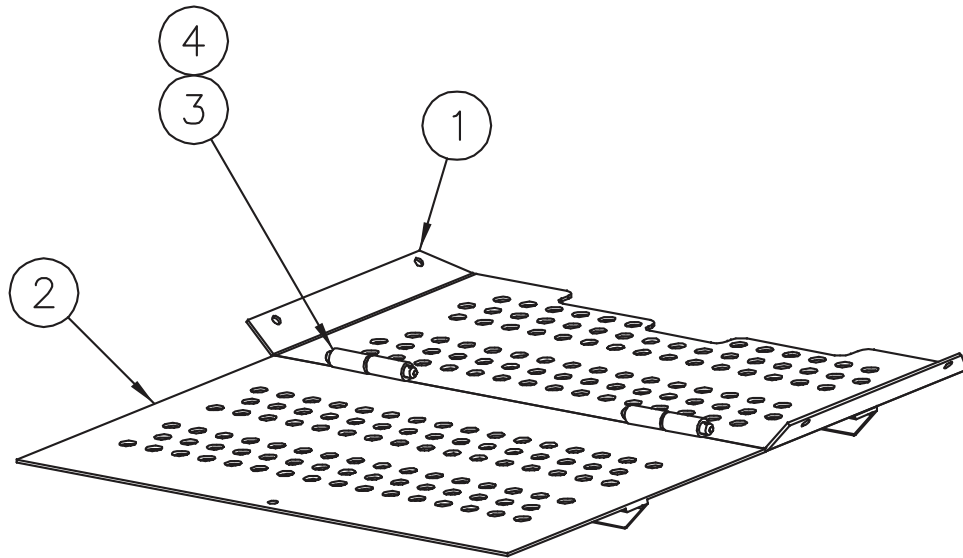
<b>Item</b>	<b>Qty.</b>	<b>Part Number</b>	<b>Description</b>
1	1	00125911-A	CAGE WLDMT,MTR MT,MSV,AUGER,MS
1	1	00125911-B	CAGE WLDMT,MTR MT,MSV,AUGER,304
2	1	05006695	MOTOR,HYD,WHITE,66CI,4B,14T,W/SP SNSR <i>See Page 96-97</i>
3	1	00125908-A	GUARD ASSY,AUGER,MSV,MS <i>See Page 28</i>
3	1	00125908-B	GUARD ASSY,AUGER,MSV,304
3	1	00125908-C	GUARD ASSY,AUGER,MSV,304L
4	1	05030006	BEARING,2",4B FLANGE,MSV-MV,RELUBE,
5	1	00026209-A	COVER,FRONT BEARING,MSV,AUGER,MS
5	1	00026209-B	COVER,FRONT BEARING,MSV,AUGER,304
5	1	00026209-C	COVER,FRONT BEARING,MSV,AUGER,304L
6	1	00012265	BUSHING,MSV AUGER DRIVE,3.5"ODx2"IDx.875
7	4	00049931-A	PIPE,MS,.500xSCH80x.500,A53,TYPE F
7	4	00049931-B	PIPE,SS,.500xSCH80x.500,304
8	4	05010701	BOLT .500-13 x 4.00 G8 HHCS ZC
8	4	05017053	BOLT .500-13 x 4.00 HHCS SST
9	4	05010695	BOLT .500-13 x 2.50 G8 HHCS ZC
9	4	05016207	BOLT .500-13 x 2.50 HHCS SST
10	4	05010691	BOLT .500-13 x 1.50 G8 HHCS ZC
10	4	05016096	BOLT .500-13 x 1.50 HHCS SST
11	5	05010644	BOLT .375-16 x 1.25 G8 HHCS ZC
11	5	05016049	BOLT .375-16 x 1.25 HHCS SST
12	2	05010643	BOLT .375-16 x 1.00 G8 HHCS ZC
12	2	Q5016034	BOLT .375-16 x 1.00 HHCS SST
13	12	05020847	NUT .500-13 GC TOPLOCK C&W
13	12	05020908	NUT .500-13 NYLON LOCK 316 SST
14	7	05020891	NUT .375-16 NYLON LOCK 316 SST
14	7	05020898	NUT .375-16 GC TOPLOCK C&W
15	24	05021309	WASHER .500 FLAT ZC
15	24	05021391	WASHER .500 FLAT SST
16	14	05021307	WASHER .375 FLAT ZC
16	14	05021390	WASHER .375 FLAT SST
17	.25	05051390	RUST PROOFER HEAVY DUTY

# AUGER GUARD ASSEMBLY



## 00125908 AUGER GUARD ASSEMBLY

Item	Qty.	Part Number	Description
1	1	00125903-A	AUGER GUARD WLDMT,MSV,MS
1	1	00125903-B	AUGER GUARD WLDMT,MSV,304
1	1	00125903-C	AUGER GUARD WLDMT,MSV,304L
1	1	00125903-D	AUGER GUARD WLDMT,MSV,AUSST
2	1	00125907-A	DOOR WLDMT,AUGER GUARD,MSV,MS
2	1	00125907-B	DOOR WLDMT,AUGER GUARD,MSV,304
2	1	00125907-C	DOOR WLDMT,AUGER GUARD,MSV,304L
2	1	00125907-D	DOOR WLDMT,AUGER GUARD,MSV,AUSST
3	2	00029211-A	PIN SHAFT,HINGE,V-BOX,MS
3	2	00029211-B	PIN SHAFT,HINGE,V-BOX,304
4	4	05022072	PIN .156 x .875 ROLL ZC



**00125925 ASSY,AUGER,MSV W/DOOR**

Item	Qty.	Part Number	Description
1	1	00125924-A	GUARD WLDMT,AUGER,MSV W/DOOR,MS
1	1	00125924-B	GUARD WLDMT,AUGER,MSV W/DOOR,304
1	1	00125924-C	GUARD WLDMT,AUGER,MSV W/DOOR,304L
1	1	00125924-D	GUARD WLDMT,AUGER,MSV W/DOOR,AUSST
2	1	00125907-A	DOOR WLDMT,AUGER GUARD,MSV,MS
2	1	00125907-B	DOOR WLDMT,AUGER GUARD,MSV,304
2	1	00125907-C	DOOR WLDMT,AUGER GUARD,MSV,304L
2	1	00125907-D	DOOR WLDMT,AUGER GUARD,MSV,AUSST
3	2	00029211-A	PIN SHAFT,HINGE,V-BOX,MS
3	2	00029211-B	PIN SHAFT,HINGE,V-BOX,304
4	4	05022072	PIN .156 x .875 ROLL ZC

**Note:** Door kits were discontinued after April 2006. No bodies built after this date had doors unless special ordered. Auger Guard Assembly 00125925 is used with auger bodies with a rear door.

# TROUGH KIT, MSV AUGER

TROUGH KIT, MSV AUGER			
Item	Qty	Part Number	Description
		00028063-A	TROUGH, AUGER, MSV, 8', 304, 10GA
		00028063-B	TROUGH, AUGER, MSV, 8', 304, .1875
		00028063-C	TROUGH, AUGER, MSV, 8', 409, 10GA
		00028063-D	TROUGH, AUGER, MSV, 8', 409, .1875
		00028064-A	TROUGH, AUGER, MSV, 9', 304, 10GA
		00028064-B	TROUGH, AUGER, MSV, 9', 304, .1875
		00028064-C	TROUGH, AUGER, MSV, 9', 409, 10GA
		00028064-D	TROUGH, AUGER, MSV, 9', 409, .1875
		00028064-E	TROUGH, AUGER, MSV, 9', MS, .1875
		00028066-A	TROUGH, AUGER, MSV, 11', 304, 10GA
		00028066-B	TROUGH, AUGER, MSV, 11', 304, .1875
		00028066-C	TROUGH, AUGER, MSV, 11', 409, 10GA
		00028066-D	TROUGH, AUGER, MSV, 11', 409, .1875
		00028066-E	TROUGH, AUGER, MSV, 11', MS, .1875
		00028067-A	TROUGH, AUGER, MSV, 12', 304, 10GA
		00028067-B	TROUGH, AUGER, MSV, 12', 304, .1875
		00028067-C	TROUGH, AUGER, MSV, 12', 409, 10GA
		00028067-D	TROUGH, AUGER, MSV, 12', 409, .1875
		00028068-A	TROUGH, AUGER, MSV, 13', 304, 10GA
		00028068-B	TROUGH, AUGER, MSV, 13', 304, .1875
		00028068-C	TROUGH, AUGER, MSV, 13', 409, 10GA
		00028068-D	TROUGH, AUGER, MSV, 13', 409, .1875
		00028069-A	TROUGH, AUGER, MSV, 14', 304, 10GA
		00028069-B	TROUGH, AUGER, MSV, 14', 304, .1875
		00028069-C	TROUGH, AUGER, MSV, 14', 409, 10GA
		00028069-D	TROUGH, AUGER, MSV, 14', 409, .1875
		00028069-E	TROUGH, AUGER, MSV, 14', MS, .1875
		00028070-A	TROUGH, AUGER, MSV, 15', 304, 10GA
		00028070-B	TROUGH, AUGER, MSV, 15', 304, .1875
		00028070-C	TROUGH, AUGER, MSV, 15', 409, 10GA
		00028070-D	TROUGH, AUGER, MSV, 15', 409, .1875

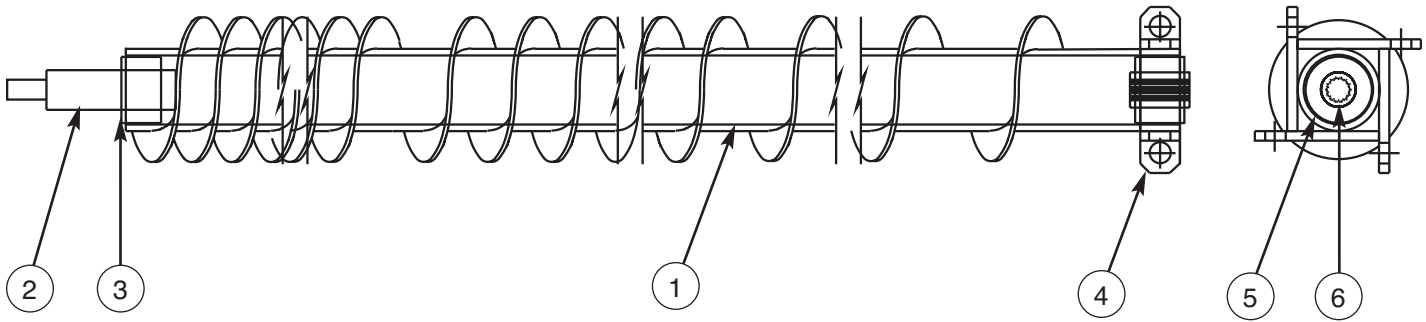


### TROUGH KIT, MSV AUGER

Item	Qty	Part Number	Description
1	1	00028071-A	TROUGH, AUGER, MSV, 16', 304, 10GA
		00028071-B	TROUGH, AUGER, MSV, 16', 304, .1875
		00028071-C	TROUGH, AUGER, MSV, 16', 409, 10GA
		00028071-D	TROUGH, AUGER, MSV, 16', 409, .1875
		00028072-A	TROUGH, AUGER, MSV, 17', 304, 10GA
		00028072-B	TROUGH, AUGER, MSV, 17', 304, .1875
		00028072-C	TROUGH, AUGER, MSV, 17', 409, 10GA
		00028072-D	TROUGH, AUGER, MSV, 17', 409, .1875
		00065971-A	TROUGH, AUGER, MSV, 18', 304, 10GA
		00065971-B	TROUGH, AUGER, MSV, 18', 304, .1875
		00065971-C	TROUGH, AUGER, MSV, 18', 409, 10GA
		00065971-D	TROUGH, AUGER, MSV, 18', 409, .1875
2	See chart	05016003	BOLT, .375-16 X 1, CARRIAGE, SST
3	See chart	05020891	NUT, .375-16, NYLON LOCK, 316 SST
4	See chart	05021390	WASHER, .375, FLAT, SST

	8'	9'	11'	12'	13'	14'	15'	16'	17'	18'
Bolts/Nuts/Washers	18	20	24	26	28	30	32	34	36	38

# AUGER WELDMENTS

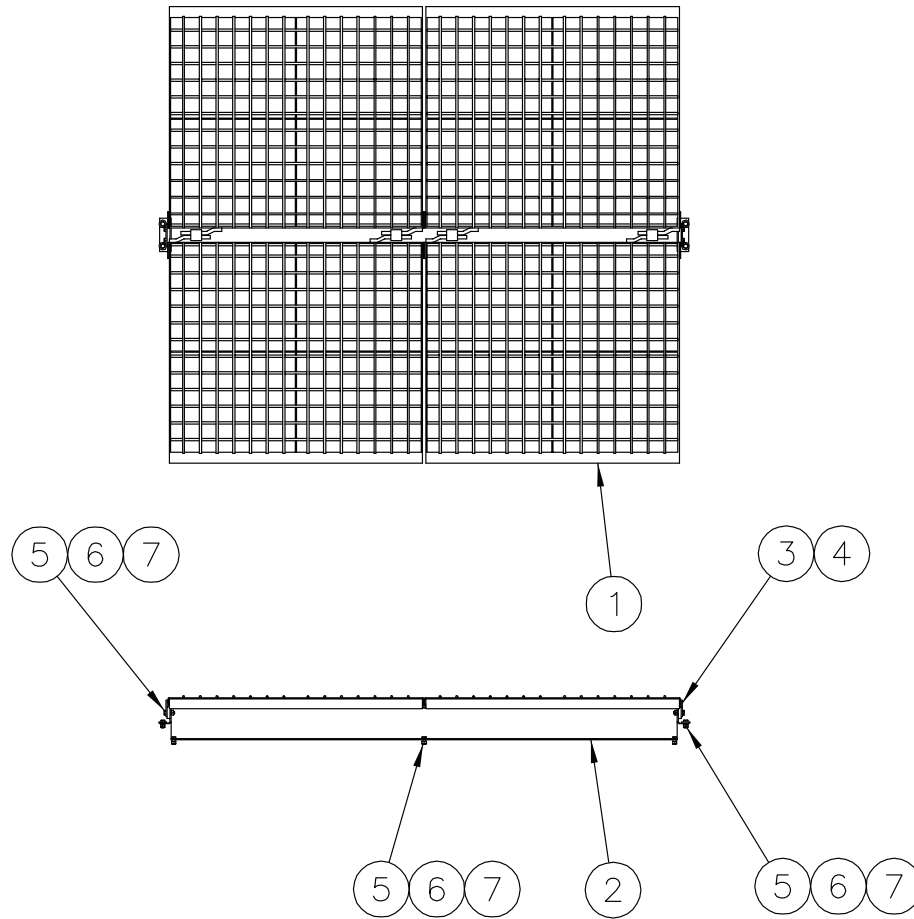


(Auger Weldment PN: 00011171 Shown)

## AUGER WELDMENTS

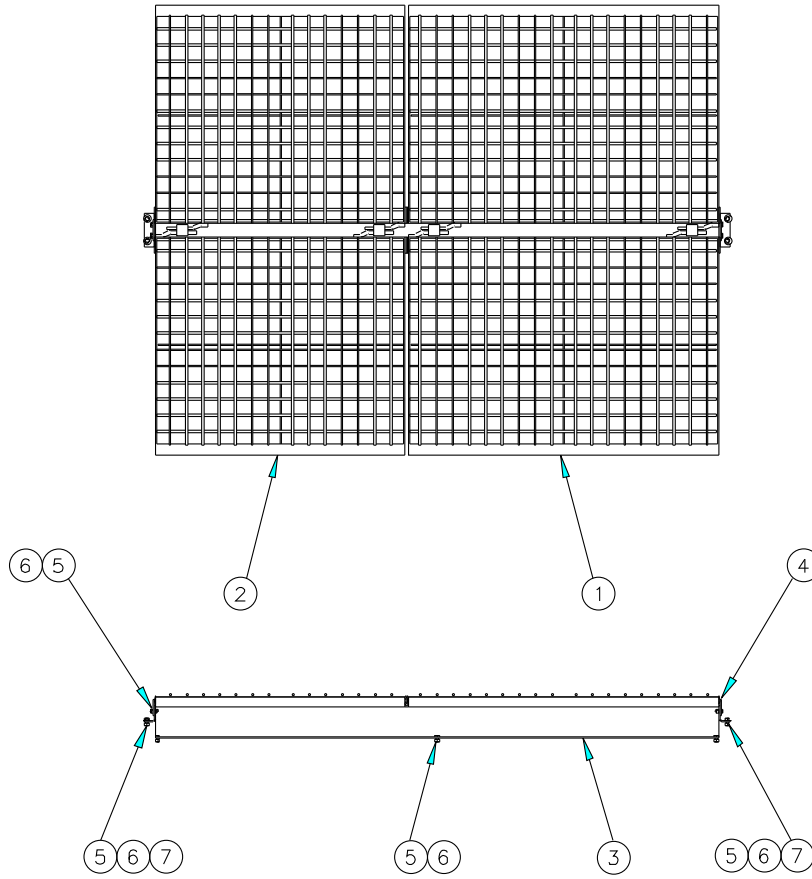
Item	Qty	Part Number	Description
1	1	00011171	AUGER WELDMENT, MSV, 96, 7 OD
		00011172	AUGER WELDMENT, MSV, 108, 7 OD
		00011173	AUGER WELDMENT, MSV, 120, 7 OD
		00011174	AUGER WELDMENT, MSV, 132, 7 OD
		00011175	AUGER WELDMENT, MSV, 144, 7 OD
		00011176	AUGER WELDMENT, MSV, 156, 7 OD
		00011177	AUGER WELDMENT, MSV, 168, 7 OD
		00011178	AUGER WELDMENT, MSV, 180, 7 OD
		00011179	AUGER WELDMENT, MSV, 192, 7 OD
		00028020	AUGER WELDMENT, MSV, 204, 7 OD
		00065975	AUGER WELDMENT, MSV, 216, 7 OD
2	1	00011458	CRR, 2 DIA X 8.5
3	1	00011459	AUGER BUSHING
4	4	00026202	DOG EAR
5	1	00011464	AUGER BUSHING
6	1	05051058	COUPLER, SHAFT, 1.25 - 14, SPLINE X 3

# TOP GRATE KITS



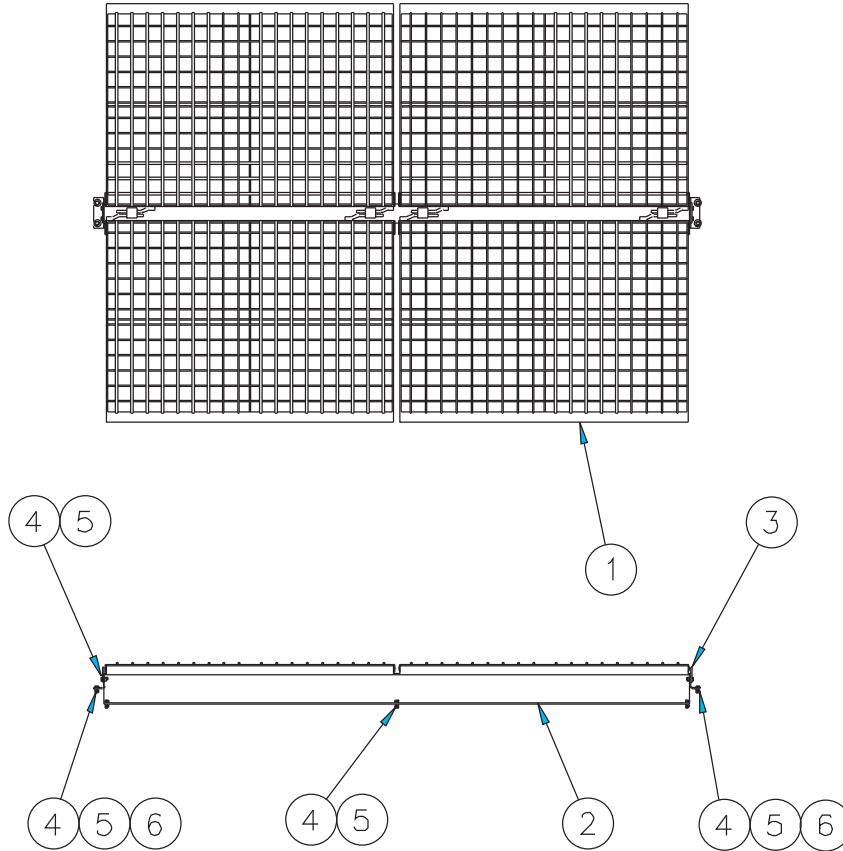
## 00022465 TOP GRATE KIT, 8'

Item	Qty	Part Number	Description
1	4	00056016	TOP GRATE WELDMENT, 4'
2	1	00022467	TOP BEAM WELDMENT, 8'
3	2	00053809-A	STOP, TOP BEAM
4	2	00067449	SPACER, TOP BEAM STOP
5	10	05010689 05016047	BOLT, .5-13 X 1", G8, HHCS, ZINC BOLT, .5-13 X 1", HHCS, SST
6	14	05020847 05020908	NUT, .5-13, GC, TOPLOCK, C&W NUT, .5-13, NYLON LOCK, SST
7	4	05021309 05031391	WASHER, .5", FLAT, ZINC WASHER, .5", FLAT, SST
8	4	05010691 05016096	BOLT, .5-13 X 1½", G8, HHCS, ZINC BOLT, .5-13 X 1½", HHCS, SST



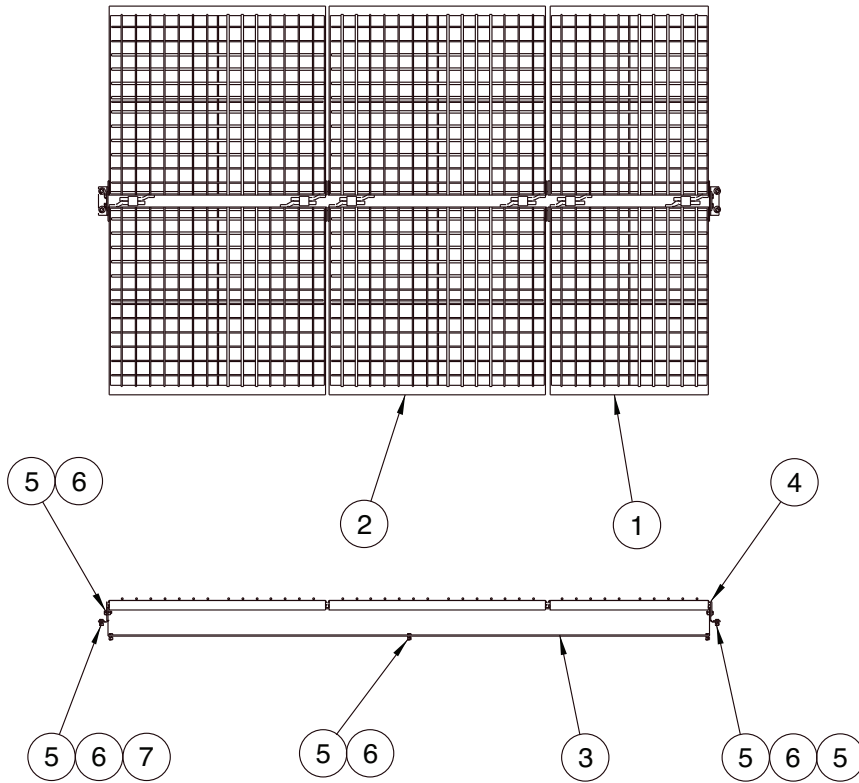
**00022468 TOP GRATE KIT, 9'**

Item	Qty	Part Number	Description
1	2	00056024	TOP GRATE WELDMENT, 5'
2	2	00056016	TOP GRATE WELDMENT, 4'
3	1	00022470	TOP BEAM WELDMENT, 9'
4	2	00053809-A	STOP, TOP BEAM
5	14	05010689 05016047	BOLT, .5-13 X 1", G8, HHCS, ZINC BOLT, .5-13 X 1", HHCS, SST
6	14	05020847 05020908	NUT, .5-13, GC, TOPLOCK, C&W NUT, .5-13, NYLON LOCK, SST
7	4	05021309 05031391	WASHER, .5", FLAT, ZINC WASHER, .5", FLAT, SST



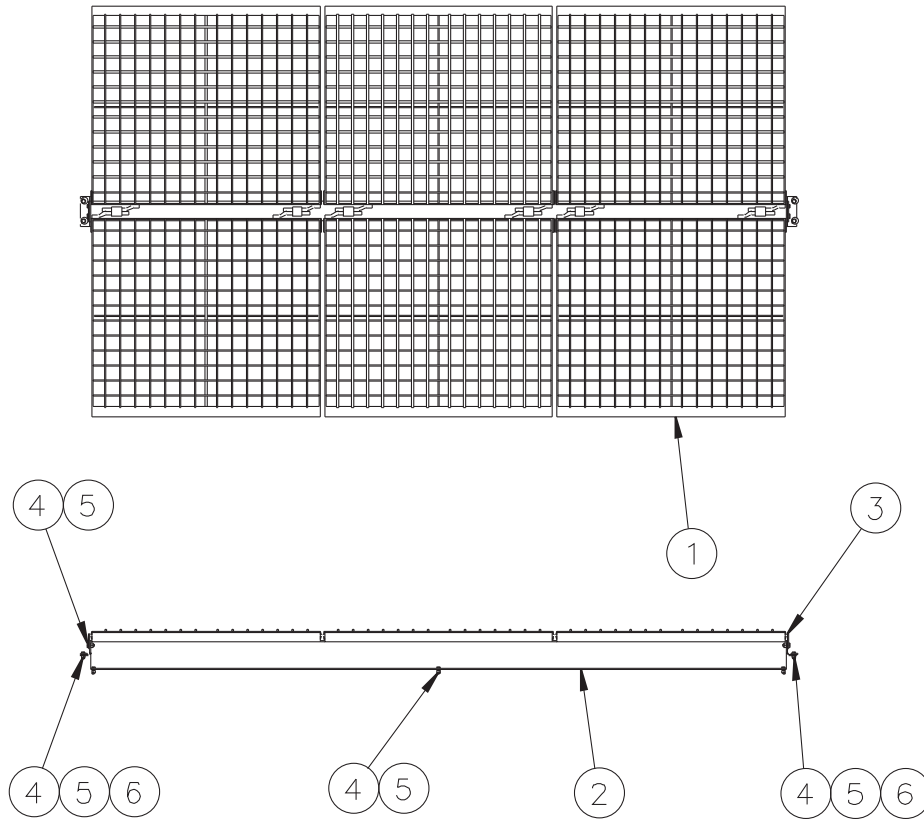
**00022471 TOP GRATE KIT, 10'**

Item	Qty	Part Number	Description
1	4	00056024	TOP GRATE WELDMENT, 5'
2	1	00022473	TOP BEAM WELDMENT, 10'
3	2	00053809-A	STOP, TOP BEAM
4	14	05010689 05016047	BOLT, .5-13 X 1", G8, HHCS, ZINC BOLT, .5-13 X 1", HHCS, SST
5	14	05020847 05020908	NUT, .5-13, GC, TOPLOCK, C&W NUT, .5-13, NYLON LOCK, SST
6	4	05021309 05031391	WASHER, .5", FLAT, ZINC WASHER, .5", FLAT, SST



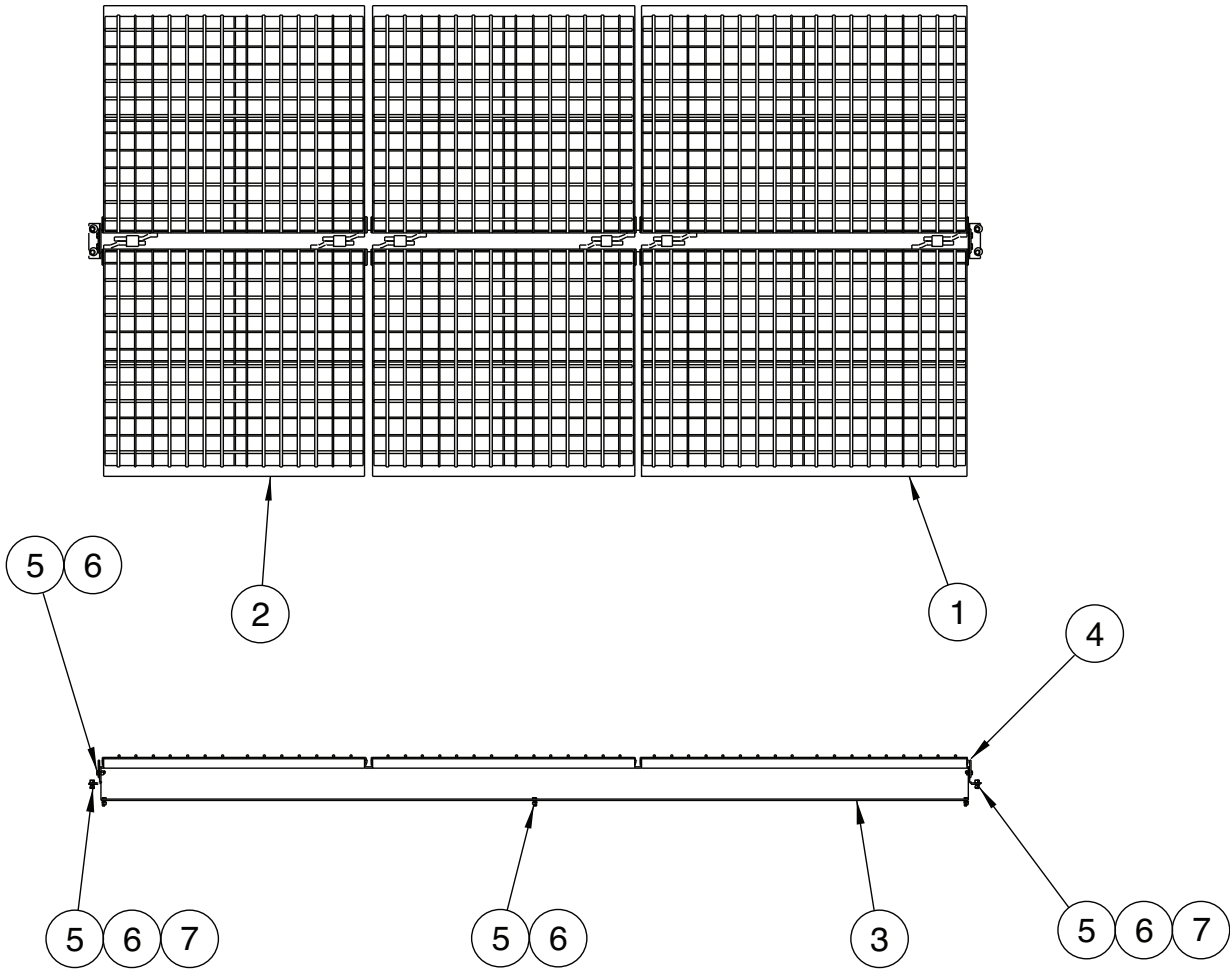
**00022474 TOP GRATE KIT, 11'**

Item	Qty	Part Number	Description
1	2	00056000	TOP GRATE WELDMENT, 3'
2	4	00056016	TOP GRATE WELDMENT, 4'
3	1	00022476	TOP BEAM WELDMENT, 11'
4	2	00053809-A	STOP, TOP BEAM
5	14	05010689 05016047	BOLT, .5-13 X 1", G8, HHCS, ZINC BOLT, .5-13 X 1", HHCS, SST
6	14	05020847 05020908	NUT, .5-13, GC, TOPLOCK, C&W NUT, .5-13, NYLON LOCK, SST
7	4	05021309 05031391	WASHER, .5", FLAT, ZINC WASHER, .5", FLAT, SST



**00022477 TOP GRATE KIT, 12'**

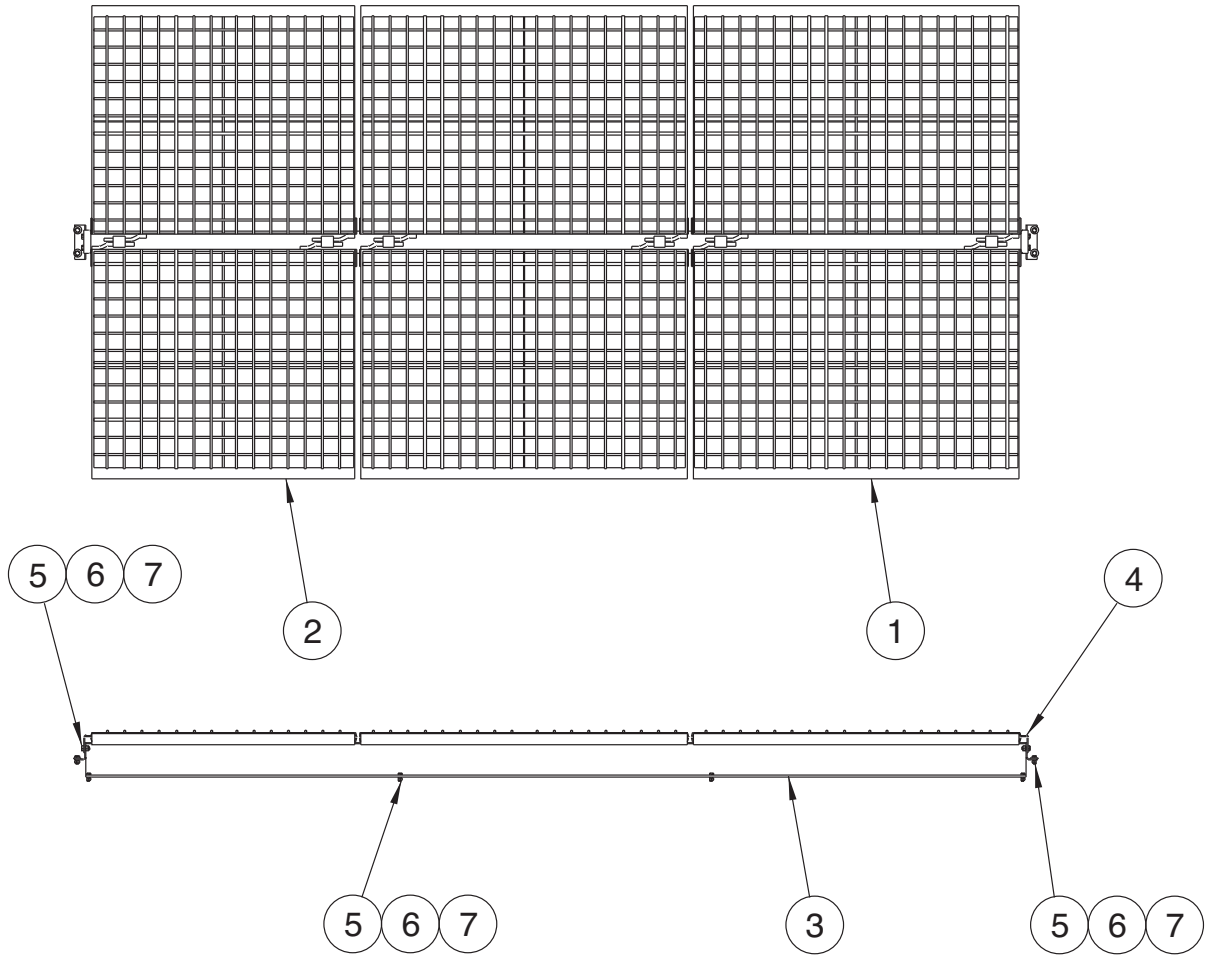
Item	Qty	Part Number	Description
1	6	00056016	TOP GRATE WELDMENT, 4'
2	1	00022479	TOP BEAM WELDMENT, 12'
3	2	00053809-A	STOP, TOP BEAM
4	14	05010689 05016047	BOLT, .5-13 X 1", G8, HHCS, ZINC BOLT, .5-13 X 1", HHCS, SST
5	14	05020847 05020908	NUT, .5-13, GC, TOPLOCK, C&W NUT, .5-13, NYLON LOCK, SST
6	4	05021309 05031391	WASHER, .5", FLAT, ZINC WASHER, .5", FLAT, SST



**00022480 TOP GRATE KIT, 13'**

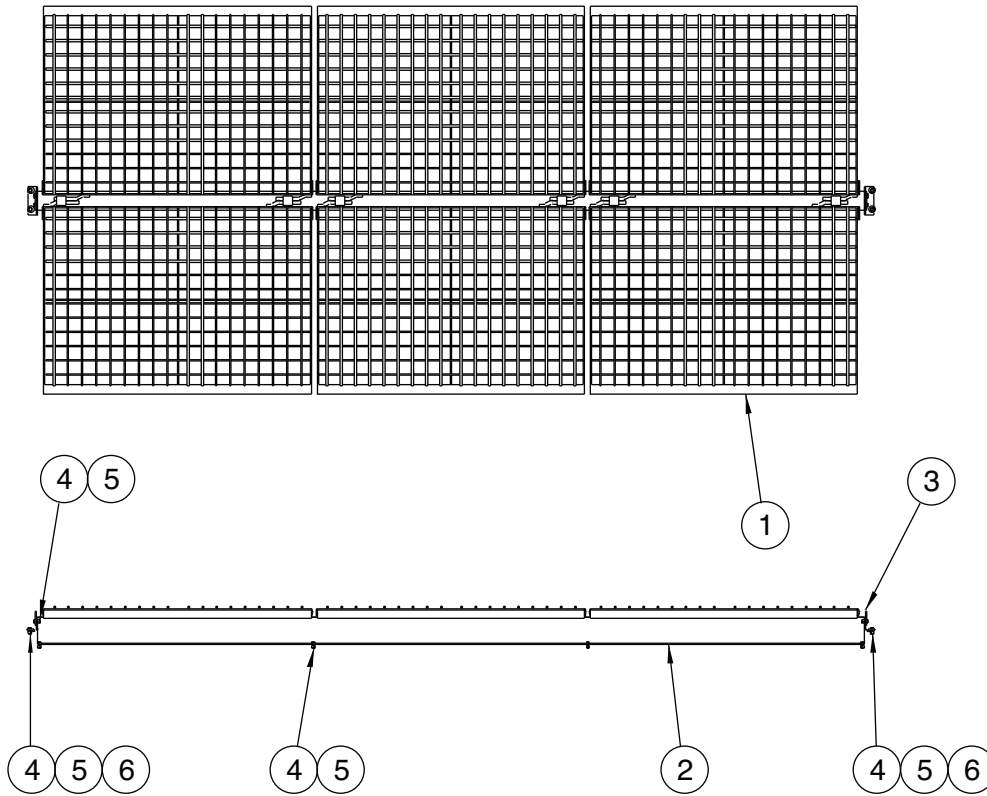
Item	Qty	Part Number	Description
1	2	00056024	TOP GRATE WELDMENT, 5'
2	4	00056016	TOP GRATE WELDMENT, 4'
3	1	00022482	TOP BEAM WELDMENT, 13'
4	2	00053809-A	STOP, TOP BEAM
5	14	05010689 05016047	BOLT, .5-13 X 1", G8, HHCS, ZINC BOLT, .5-13 X 1", HHCS, SST
6	14	05020847 05020908	NUT, .5-13, GC, TOPLOCK, C&W NUT, .5-13, NYLON LOCK, SST
7	4	05021309 05031391	WASHER, .5", FLAT, ZINC WASHER, .5", FLAT, SST





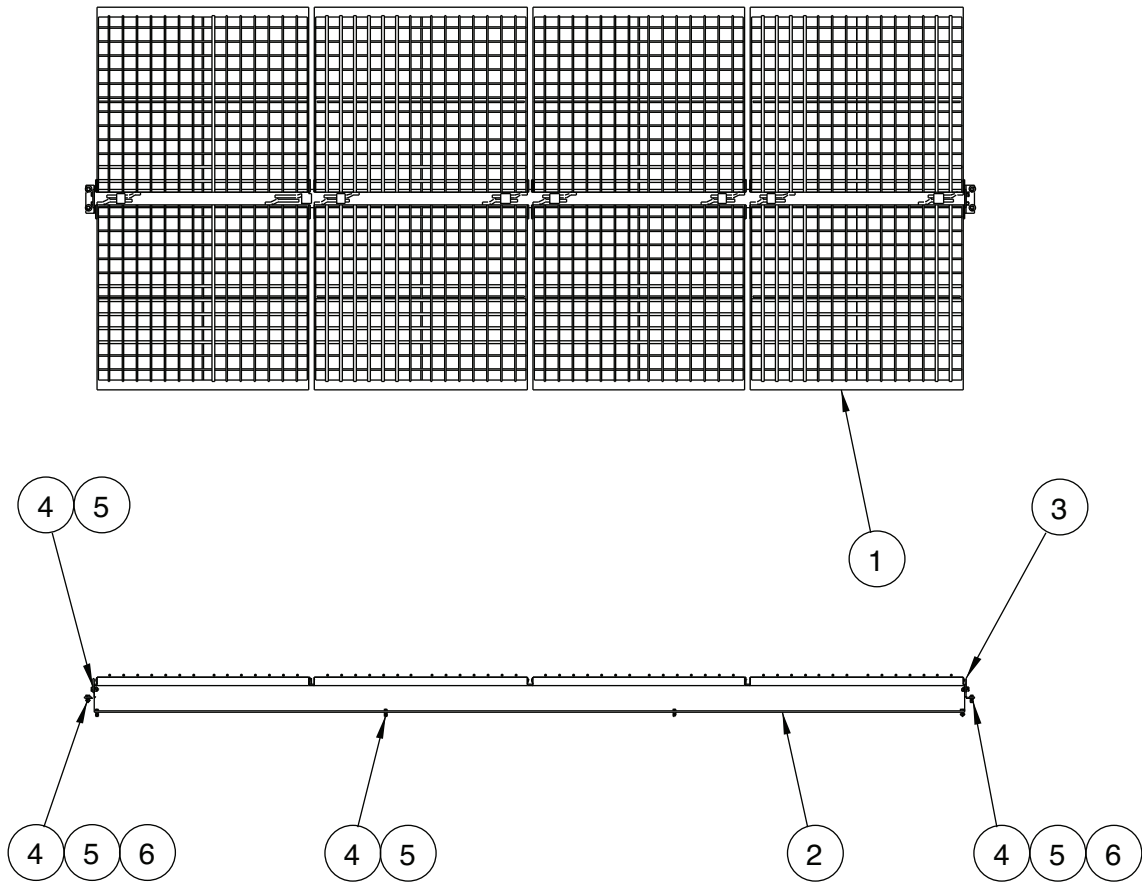
**00022483 TOP GRATE KIT, 14'**

Item	Qty	Part Number	Description
1	4	00056024	TOP GRATE WELDMENT, 5'
2	2	00056016	TOP GRATE WELDMENT, 4'
3	1	00022485	TOP BEAM WELDMENT, 14'
4	2	00010020-A	STOP, TOP BEAM
5	16	05010689 05016047	BOLT, .5-13 X 1", G8, HHCS, ZINC BOLT, .5-13 X 1", HHCS, SST
6	16	05020847 05020908	NUT, .5-13, GC, TOPLOCK, C&W NUT, .5-13, NYLON LOCK, SST
7	4	05021309 05031391	WASHER, .5", FLAT, ZINC WASHER, .5", FLAT, SST



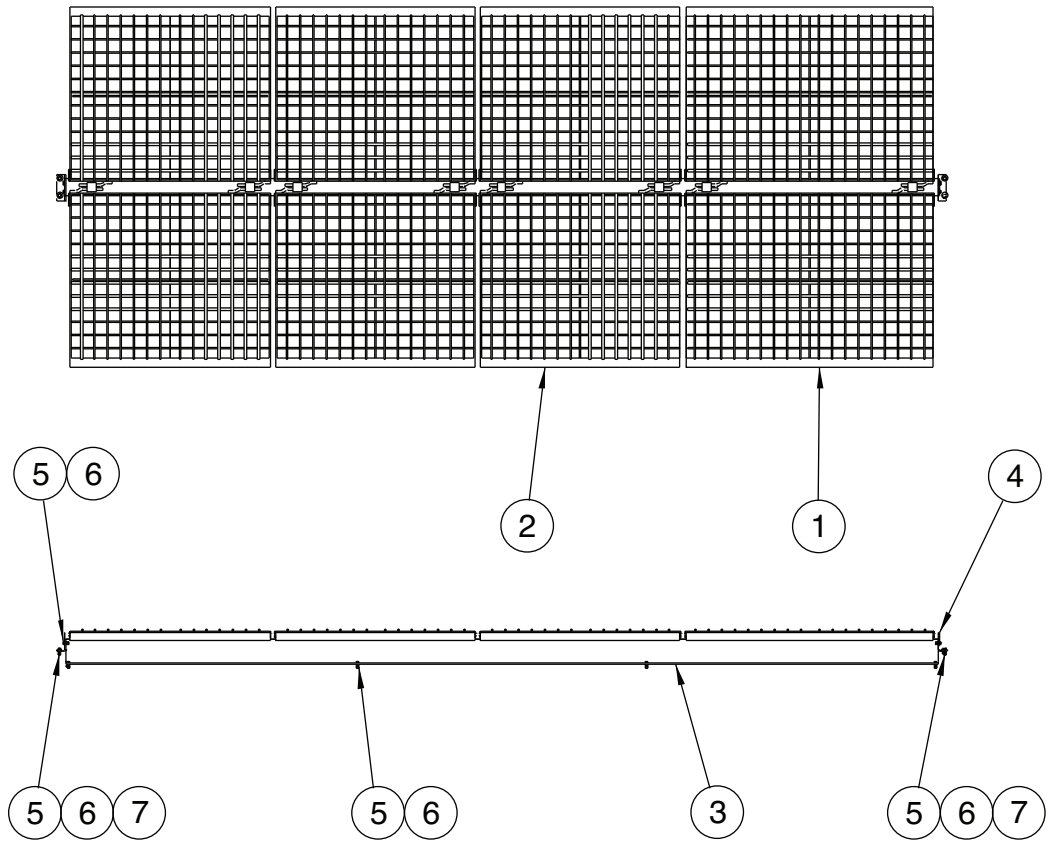
**00022486 TOP GRATE KIT, 15'**

Item	Qty	Part Number	Description
1	6	00056024	TOP GRATE WELDMENT, 5'
2	1	00022488	TOP BEAM WELDMENT, 15'
3	2	00010020-A	STOP, TOP BEAM
4	16	05010689 05016047	BOLT, .5-13 X 1", G8, HHCS, ZINC BOLT, .5-13 X 1", HHCS, SST
5	16	05020847 05020908	NUT, .5-13, GC, TOPLOCK, C&W NUT, .5-13, NYLON LOCK, SST
6	4	05021309 05031391	WASHER, .5", FLAT, ZINC WASHER, .5", FLAT, SST



**00022489 TOP GRATE KIT, 16'**

Item	Qty	Part Number	Description
1	8	00056016	TOP GRATE WELDMENT, 4'
2	1	00022491	TOP BEAM WELDMENT, 16'
3	2	00010020-A	STOP, TOP BEAM
4	16	05010689 05016047	BOLT, .5-13 X 1", G8, HHCS, ZINC BOLT, .5-13 X 1", HHCS, SST
5	16	05020847 05020908	NUT, .5-13, GC, TOPLOCK, C&W NUT, .5-13, NYLON LOCK, SST
6	4	05021309 05031391	WASHER, .5", FLAT, ZINC WASHER, .5", FLAT, SST



**00022492 TOP GRATE KIT, 17'**

Item	Qty	Part Number	Description
1	2	00056024	TOP GRATE WELDMENT, 5'
2	6	00056016	TOP GRATE WELDMENT, 4'
3	1	00022494	TOP BEAM WELDMENT, 17'
4	2	00010020-A	STOP, TOP BEAM
5	16	05010689 05016047	BOLT, .5-13 X 1", G8, HHCS, ZINC BOLT,.5-13 X 1", HHCS, SST
6	16	05020847 05020908	NUT, .5-13, GC, TOPLOCK, C&W NUT, .5-13, NYLON LOCK, SST
7	4	05021309 05031391	WASHER, .5", FLAT, ZINC WASHER, .5", FLAT, SST

# TOP GRATE LOCK KITS

## 00064292 TOP GRATE LOCK KIT, 8-10

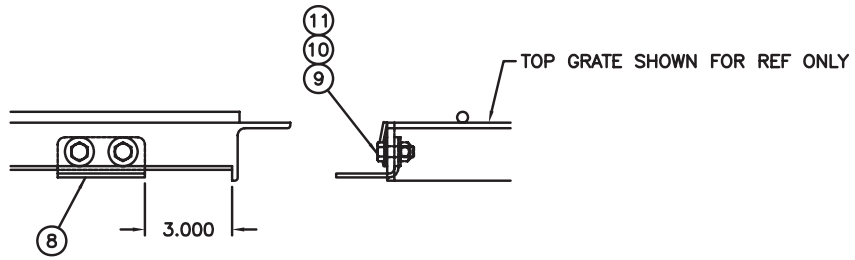
Item	Qty	Part Number	Description
1	4	00023751	LOCK, TOP GRATE
2	8	05010643 05016034	BOLT, .375-16 X 1, G8, HHCS, ZINC BOLT, .375-16 X 1, HHCS, SST
3	8	05020898 05020891	NUT, .375-16, TOP LOCK, C&W, GRC NUT, .375-16, NYLON LOCK, 316 SST

## 00064293 TOP GRATE LOCK KIT, 11-15

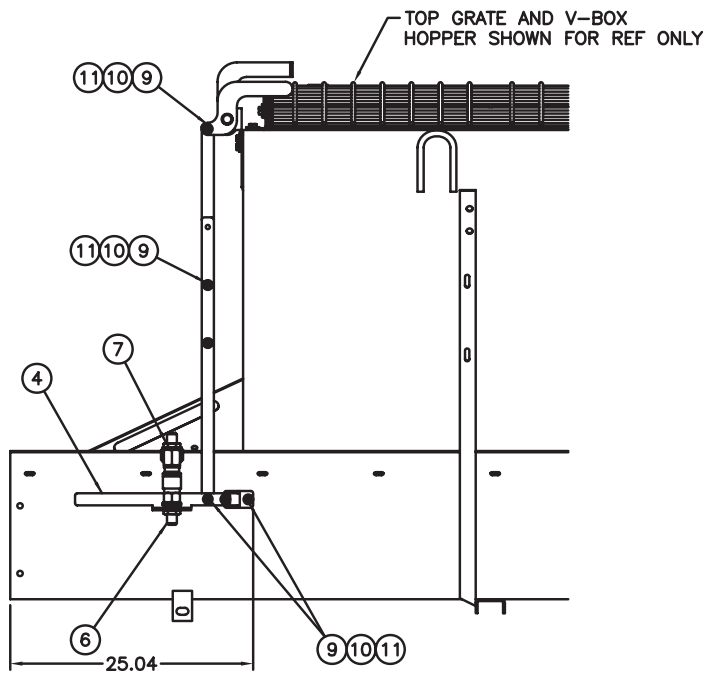
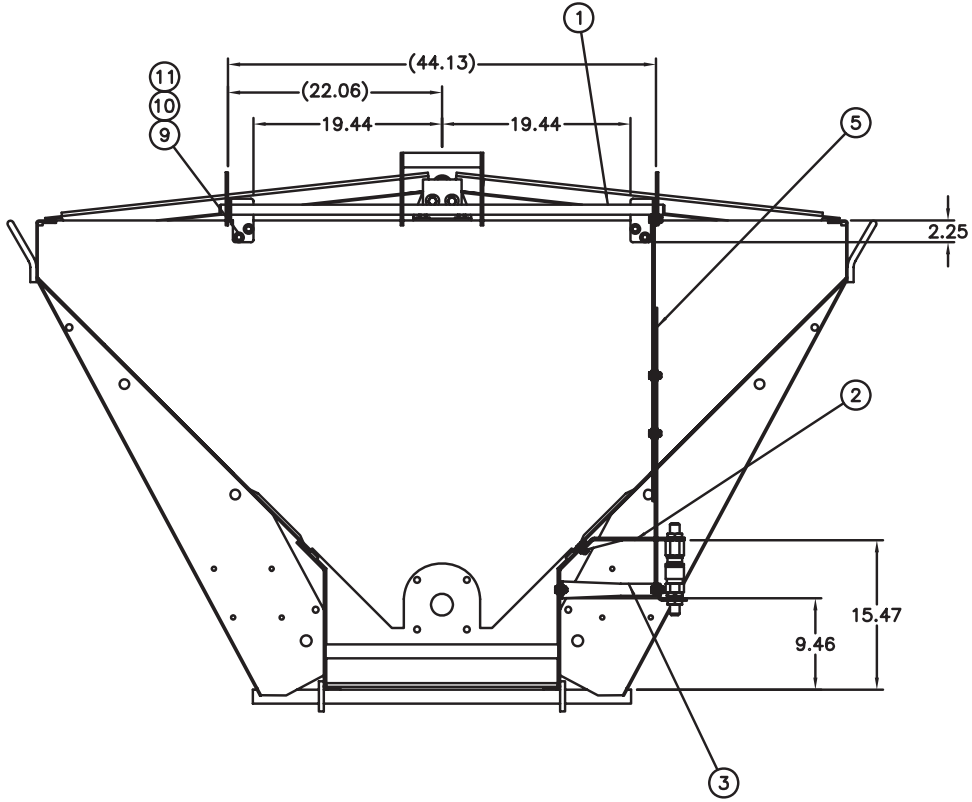
Item	Qty	Part Number	Description
1	6	00023754	LOCK, TOP GRATE
2	12	05010643 05016034	BOLT, .375-16 X 1, G8, HHCS, ZINC BOLT, .375-16 X 1, HHCS, SST
3	12	05020898 05020891	NUT, .375-16, TOP LOCK, C&W, GRC NUT, .375-16, NYLON LOCK, 316 SST

## 00064294 TOP GRATE LOCK KIT, 16-18

Item	Qty	Part Number	Description
1	8	00023754	LOCK, TOP GRATE
2	16	05010643 05016034	BOLT, .375-16 X 1, G8, HHCS, ZINC BOLT, .375-16 X 1, HHCS, SST
3	16	05020898 05020891	NUT, .375-16, TOP LOCK, C&W, GRC NUT, .375-16, NYLON LOCK, 316 SST



INSTALL ITEM #8 ON REARWARD  
SIDE BAR OF FRONT AND CENTER  
GRATES APPROX AS SHOWN



**00130764 HYD. INTERLOCK SHUTOFF KIT**

<b>Item</b>	<b>Qty.</b>	<b>Part Number</b>	<b>Description</b>
1	1	00130765-A	BAR WLDMT,MSV,AUG,INT SHUTOFF SYS,MS
1	1	00130765-B	BAR WLDMT,MSV,AUG,INT SHUTOFF SYS,304
2	1	00131250-A	BRKT WLDMT,MSV,HYD INT LOCK,GRT SYS,MS
2	1	00131250-B	BRKT WLDMT,MSV,HYD INT LOCK,GRT SYS,304
3	1	00130781-A	CONNECTION LEVER,MSV AUG,INT SHUTOFF
3	1	00130781-B	CONNECTION LEVER,MSV AUG,INT SHUTOFF
4	2	00130783-A	LINKAGE BAR,MSV AUG,INT,SHUTOFF,MS
4	2	00130783-B	LINKAGE BAR,MSV AUG,INT,SHUTOFF,304
5	1	2FFI34-14/34S-F	HYD FITNG, 3/4"FEMALE FLATFACE
6	1	FFI34-14/34S-M	HYD FITNG, 3/4" MALE FLATFACE
7	4	00130782-A	LOCKING BRKT,TPGRT,MSV AUG,INT SHUTOFF
7	4	00130782-B	LOCKING BRKT,TPGRT,MSV AUG,INT SHUTOFF
8	18	05010643	BOLT .375-16 x 1.00 G8 HHCS ZC
8	18	05016034	BOLT .375-16 x 1.00 HHCS SS
9	20	05020891	NUT .375-16 NYLON LOCK 316 SS
9	20	05020898	NUT .375-16 GC TOPLOCK C&W
10	38	05021307	WASHER .375 FLAT ZC
10	38	05021390	WASHER .375 FLAT,SAE SS
11	2	05013987	BOLT .375-16 x 1.25 G5 CRG ZC
11	2	05016746	BOLT .375-16 x 1.25 CRG SS
12	1	9377K43	BUMP STOP,RUBBER DUROMETER 50A
13	1	05020907	NUT .313-18 NYLON LOCK 316 SS
13	1	05020909	NUT .313-18 GC TOPLOCK C&W
14	1	00131254-A	BRACKET,STOP MT,MSV,HYD INT LOCK,MS
14	1	00131254-B	BRACKET,STOP MT,MSV,HYD INT LOCK,304

# INVERTED V, MV/MSV

## 00012442 INVERTED V, 8' - 9'

Item	Qty	Part Number	Description
1	1	00026220-A	Inverted V Weldment, 8' & 9', MS
	1	00026220-B	Inverted V Weldment, 8' & 9', 304 SST
2	2	00053221-A	Cross Channel, Inverted V, MS
	2	00053221-B	Cross Channel, Inverted V, 304 SST
3	12	05010690	Bolt, ½-13 x 1¼", G8, HHCS, Zinc
	12	05016045	Bolt, ½-13 x 1¼", HHCS, SST
4	12	05020847	Nut, ½-13, GC, Toplock, C&W
	12	05020908	Nut, ½-13, Nylon Lock, SST
5	12	05021309	Washer, ½", Flat, Zinc
	12	05021391	Washer, ½", Flat, SST
<i>Items 3-5, in Zinc, can be ordered as a Bolt Kit, Part Number 00051801</i> <i>Items 3-5, in SST, can be ordered as a Bolt Kit, Part Number 00051803</i>			

## 00012420 INVERTED V, 10' - 11'

Item	Qty	Part Number	Description
1	1	00026221-A	Inverted V Weldment, 10' & 11', MS
	1	00026221-B	Inverted V Weldment, 10' & 11', 304 SST
2	2	00053221-A	Cross Channel, Inverted V, MS
	2	00053221-B	Cross Channel, Inverted V, 304 SST
3	12	05010690	Bolt, ½-13 x 1¼", G8, HHCS, Zinc
	12	05016045	Bolt, ½-13 x 1¼", HHCS, SST
4	12	05020847	Nut, ½-13, GC, Toplock, C&W
	12	05020908	Nut, ½-13, Nylon Lock, SST
5	12	05021309	Washer, ½", Flat, Zinc
	12	05021391	Washer, ½", Flat, SST
<i>Items 3-5, in Zinc, can be ordered as a Bolt Kit, Part Number 00051801</i> <i>Items 3-5, in SST, can be ordered as a Bolt Kit, Part Number 00051803</i>			

## 00012443 INVERTED V, 12' - 13'

Item	Qty	Part Number	Description
1	1	00026222-A	Inverted V Weldment, 12' & 13', MS
	1	00026222-B	Inverted V Weldment, 12' & 13', 304 SST
2	2	00053221-A	Cross Channel, Inverted V, MS
	2	00053221-B	Cross Channel, Inverted V, 304 SST
3	12	05010690	Bolt, ½-13 x 1¼", G8, HHCS, Zinc
	12	05016045	Bolt, ½-13 x 1¼", HHCS, SST
4	12	05020847	Nut, ½-13, GC, Toplock, C&W
	12	05020908	Nut, ½-13, Nylon Lock, SST
5	12	05021309	Washer, ½", Flat, Zinc
	12	05021391	Washer, ½", Flat, SST
<i>Items 3-5, in Zinc, can be ordered as a Bolt Kit, Part Number 00051801</i> <i>Items 3-5, in SST, can be ordered as a Bolt Kit, Part Number 00051803</i>			



**00012444 INVERTED V, 14' - 15'**

Item	Qty	Part Number	Description
1	1	00026223-A	Inverted V Weldment, 14' & 15', MS
	1	00026223-B	Inverted V Weldment, 14' & 15', 304 SST
2	3	00053221-A	Cross Channel, Inverted V, MS
	3	00053221-B	Cross Channel, Inverted V, 304 SST
3	18	05010690	Bolt, ½-13 x 1¼", G8, HHCS, Zinc
	18	05016045	Bolt, ½-13 x 1¼", HHCS, SST
4	18	05020847	Nut, ½-13, GC, Toplock, C&W
	18	05020908	Nut, ½-13, Nylon Lock, SST
5	18	05021309	Washer, ½", Flat, Zinc
	18	05021391	Washer, ½", Flat, SST
<p><i>Items 3-5, in Zinc, can be ordered as a Bolt Kit, Part Number 00051802</i>  <i>Items 3-5, in SST, can be ordered as a Bolt Kit, Part Number 00051804</i></p>			

**00012445 INVERTED V, 14' - 15'**

Item	Qty	Part Number	Description
1	1	00026224-A	Inverted V Weldment, 16' & 17', MS
	1	00026224-B	Inverted V Weldment, 16' & 17', 304 SST
2	3	00053221-A	Cross Channel, Inverted V, MS
	3	00053221-B	Cross Channel, Inverted V, 304 SST
3	18	05010690	Bolt, ½-13 x 1¼", G8, HHCS, Zinc
	18	05016045	Bolt, ½-13 x 1¼", HHCS, SST
4	18	05020847	Nut, ½-13, GC, Toplock, C&W
	18	05020908	Nut, ½-13, Nylon Lock, SST
5	18	05021309	Washer, ½", Flat, Zinc
	18	05021391	Washer, ½", Flat, SST
<p><i>Items 3-5, in Zinc, can be ordered as a Bolt Kit, Part Number 00051802</i>  <i>Items 3-5, in SST, can be ordered as a Bolt Kit, Part Number 00051804</i></p>			

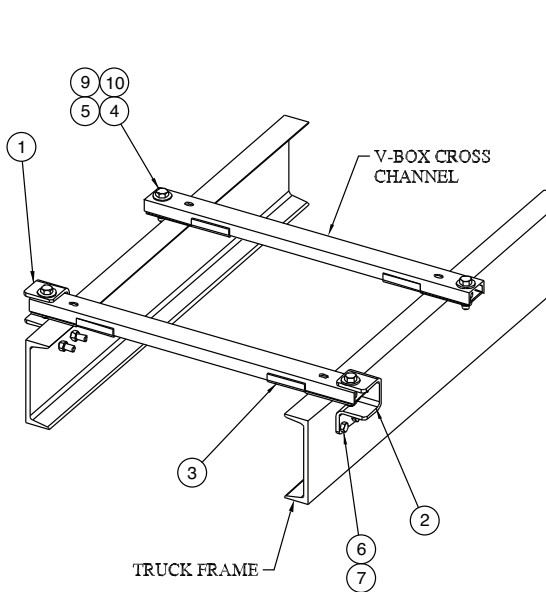
# MOUNTING KITS, MV/MSV

## 00063492 MOUNTING KIT, 3" RATCHET STRAP, WITH FLAT HOOK

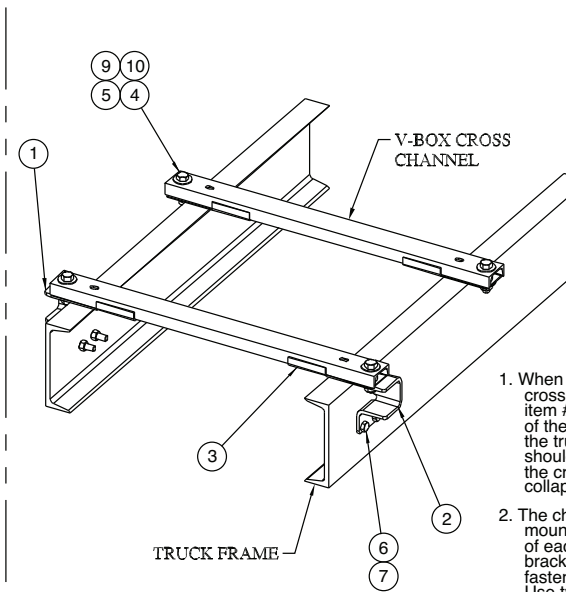
Item	Qty	Part Number	Description
1	4	00063499-A	Mounting Plate Weldment, Ratchet Strap, MS
	4	00063499-B	Mounting Plate Weldment, Ratchet Strap, 304 SST
2	4	00063498-D	Mounting Plate, Bracket, MS
	4	00063498-E	Mounting Plate, Bracket, 304 SST
3	4	05050218	Ratchet Assembly for 3" Strap
4	4	05050293	Strap, 3" x 84" with Flat Hook
5	16	05010690	Bolt, 1/2-13 x 1 1/4", G8, HHCS, Zinc
	16	05016045	Bolt, 1/2-13 x 1 1/4", HHCS, SST
6	12	05010643	Bolt, 3/8-16 x 1", G8, HHCS, Zinc
	12	05016034	Bolt, 3/8-16 x 1", HHCS, SST
7	16	05020847	Nut, 1/2-13, GC, Toplock, C&W
	16	05020908	Nut, 1/2-13, Nylon Lock, SST
8	12	05020898	Nut, 3/8-16, GC, Toplock, C&W
	12	05020891	Nut, 3/8-16, Nylon Lock, SST
9	16	05021309	Washer, 1/2", Flat, Zinc
	16	05021396	Washer, 1/2", Flat, SST
10	12	05021307	Washer, 3/8", Flat, Zinc
	12	05021390	Washer, 3/8", Flat, SST
11	4	00045283-A	Bracket, Tie Down, MS

## 00031841 MOUNTING KIT, 4" RATCHET STRAP, WITH FLAT HOOK

Item	Qty	Part Number	Description
1	4	00063499-A	Mounting Plate Weldment, Ratchet Strap, MS
	4	00063499-B	Mounting Plate Weldment, Ratchet Strap, 304 SST
2	4	00063498-D	Mounting Plate, Bracket, MS
	4	00063498-E	Mounting Plate, Bracket, 304 SST
3	4	05051740	Ratchet Assembly for 4" Strap
4	4	05051741	Strap, 4" x 84" with Flat Hook
5	16	05010690	Bolt, 1/2-13 x 1 1/4", G8, HHCS, Zinc
	16	05016045	Bolt, 1/2-13 x 1 1/4", HHCS, SST
6	12	05010643	Bolt, 3/8-16 x 1", G8, HHCS, Zinc
	12	05016034	Bolt, 3/8-16 x 1", HHCS, SST
7	16	05020847	Nut, 1/2-13, GC, Toplock, C&W
	16	05020908	Nut, 1/2-13, Nylon Lock, SST
8	12	05020898	Nut, 3/8-16, GC, Toplock, C&W
	12	05020891	Nut, 3/8-16, Nylon Lock, SST
9	16	05021309	Washer, 1/2", Flat, Zinc
	16	05021396	Washer, 1/2", Flat, SST
10	12	05021307	Washer, 3/8", Flat, Zinc
	12	05021390	Washer, 3/8", Flat, SST



INSTALLATION OPTION - A

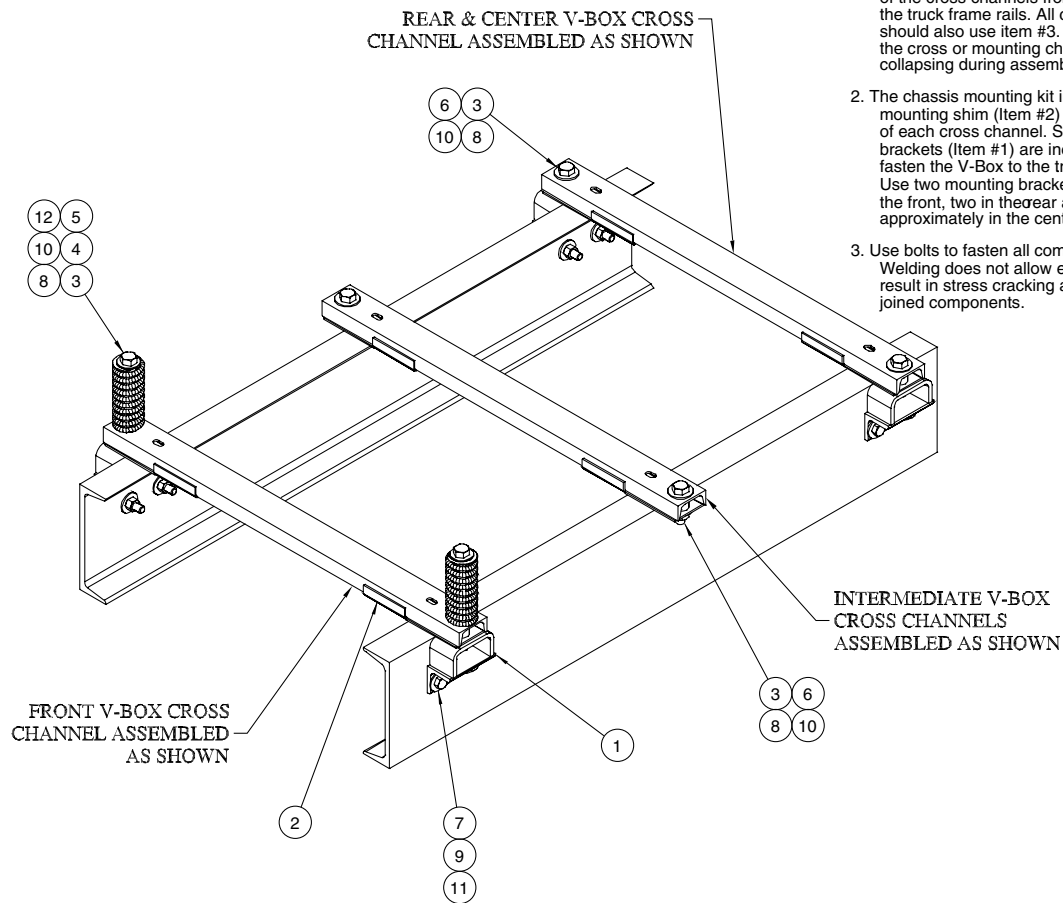


INSTALLATION OPTION - B

1. When installing a chassis mount V-Box all cross channels should be supported using item # 3. This will keep the sharp edges of the cross channels from wearing into the truck frame rails. All cross channels should also use item # 9. This will keep the cross or mounting channel from collapsing during assembly.
2. The chassis mounting kit includes one mounting channel (item # 3) for each end of each cross channel. Four mounting brackets (item #1 & #2) are included to fasten the V-Box to the truck frame rails. Use two mounting brackets in the front and two in the rear.
3. Use bolts to fasten all components together. Welding does not allow enough flex, this will result in stress cracking and failure of joined components.
4. Mounting kit may be installed with the mounting brackets on top of the v-box cross channels as shown in OPTION - A or under the cross channels as shown in OPTION -B, depending on the installation requirements.

**00022402 CHASSIS MOUNTING KIT, 8' - 11'**  
**00024600 CHASSIS MOUNTING KIT, 12'-14'**  
**00105781 CHASSIS MOUNTING KIT, 15'-17'**

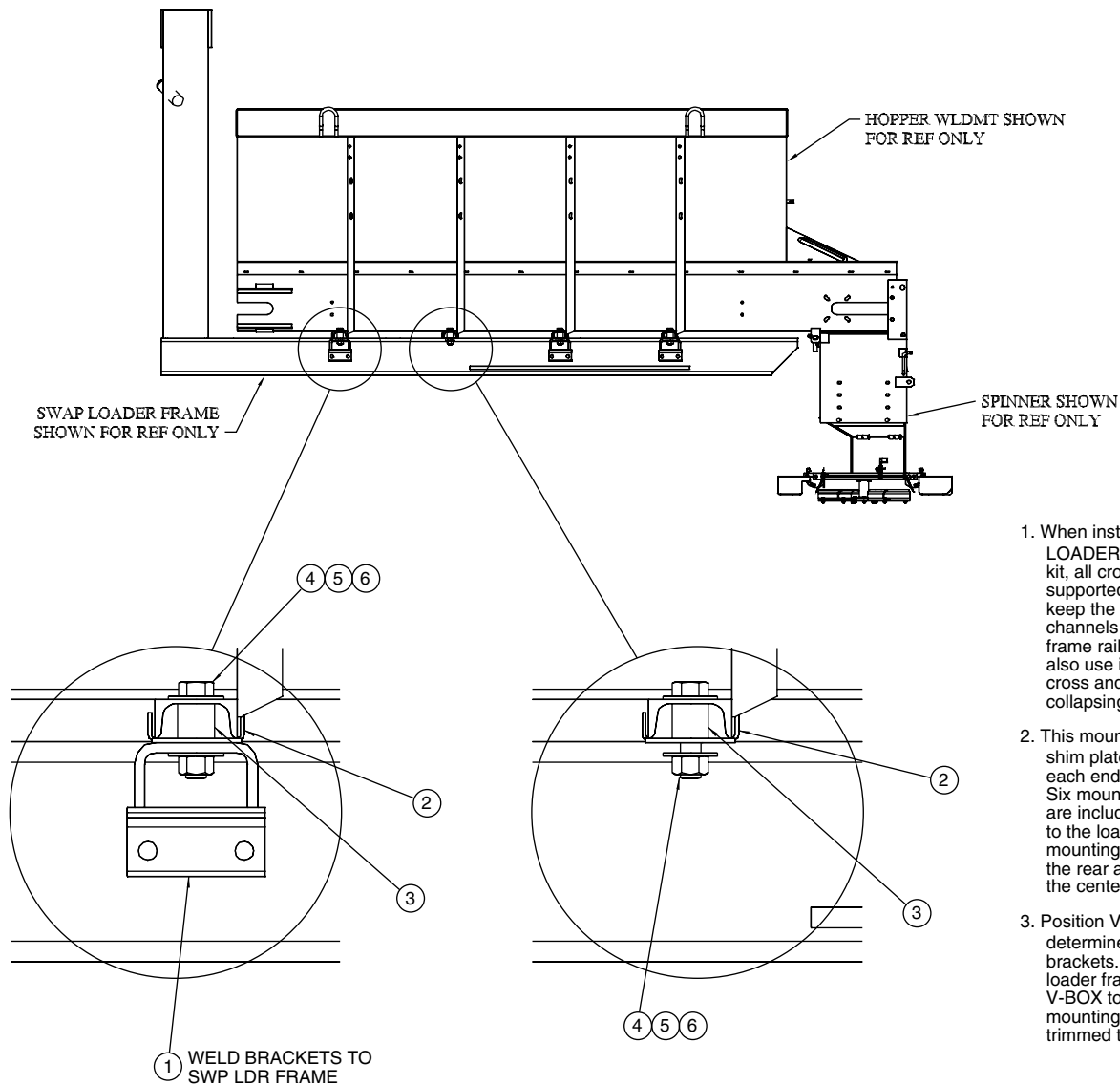
Item	Qty 8'-11'	Qty 12'-14'	Qty 15'-17'	Part Number	Description
1	6	8	8	00105737-A 00105737-B	Bracket, Chassis Mount, RH, MS Bracket, Chassis Mount, RH, 304 SST
2	10	16	16	00022401-A 00022401-B	Shim, Spacer 10.0, Chassis Mounting, MS Shim, Spacer 10.0, Chassis Mounting, 304 SST
3	10	16	16	00072042-C 00072042-B	Pipe, 1.0 SCHED 40 x 1.250, MS Painted
4	10	16	16	05010768	Bolt, .750-10 x 3, G8, HHCS, Zinc
5	12	16	16	05010741	Bolt, .625-11 x 2.50, G8, HHCS, Zinc
6	10	16	16	05020849	Nut, .750-10, GC, Top Lock, C&W
7	12	16	16	05020837	Nut, .625-11, GC, Top Lock, C&W
8	20	32	32	05021312	Washer, .750, Flat, Zinc
9	24	32	32	05021311	Washer, .625, Flat, Zinc



1. When installing a chassis mount V-Box all cross channels should be supported using item #2. This will keep the sharp edges of the cross channels from wearing into the truck frame rails. All cross channels should also use item #3. This will keep the cross or mounting channel from collapsing during assembly.
2. The chassis mounting kit includes one mounting shim (Item #2) for each end of each cross channel. Six mounting brackets (Item #1) are included to fasten the V-Box to the truck frame rails. Use two mounting brackets with springs in the front, two in the rear and two approximately in the center of the body.
3. Use bolts to fasten all components together. Welding does not allow enough flex, this will result in stress cracking and failure of joined components.

**0005557 CHASSIS MOUNTING KIT, W/ SPRINGS, 8'-11'**  
**00102330 CHASSIS MOUNTING KIT, W/ SPRINGS, 12'-14'**  
**00105782 CHASSIS MOUNTING KIT, W/ SPRINGS, 15'-17'**

Item	Qty 8'-11'	Qty 12'-14'	Qty 15'-17'	Part Number	Description
1	6	6	8	00105737-A 00105737-B	MOUNTING BRACKET WELDMENT, CHASSIS, MS MOUNTING BRACKET WELDMENT, CHASSIS, SST
2	10	12	16	00022401-A 00022401-B	SHIM, SPACER 10.0, CHASSIS MOUNTING, MS
3	10	12	16	00072042-C 00072042-B	PIPE, 1 SCHED 40 X 1.250.MS
4	2	4	4	05035071	SPRING, COMPRESSION, 2.187 OD
5	2	4	4	05010781	BOLT, .750-10 X 9, G8, HHCS, ZINC
6	8	8	12	05010768	BOLT, .750-10 X 3, G8, HHCS, ZINC
7	12	12	16	05010741	BOLT, .625-11 X 2.50, G8, HHCS, ZINC
8	12	12	16	05020849	NUT, .750-10, GC, TOP LOCK, C&W
9	18	12	16	05020837	NUT, .625-11, GC, TOP LOCK, C&W
10	24	20	28	05021312	WASHER, .750, FLAT, ZINC
11	2	24	32	05021311	WASHER, .625, FLAT, ZINC
12	2	4	4	05050006	BUSHING, 1" DIA

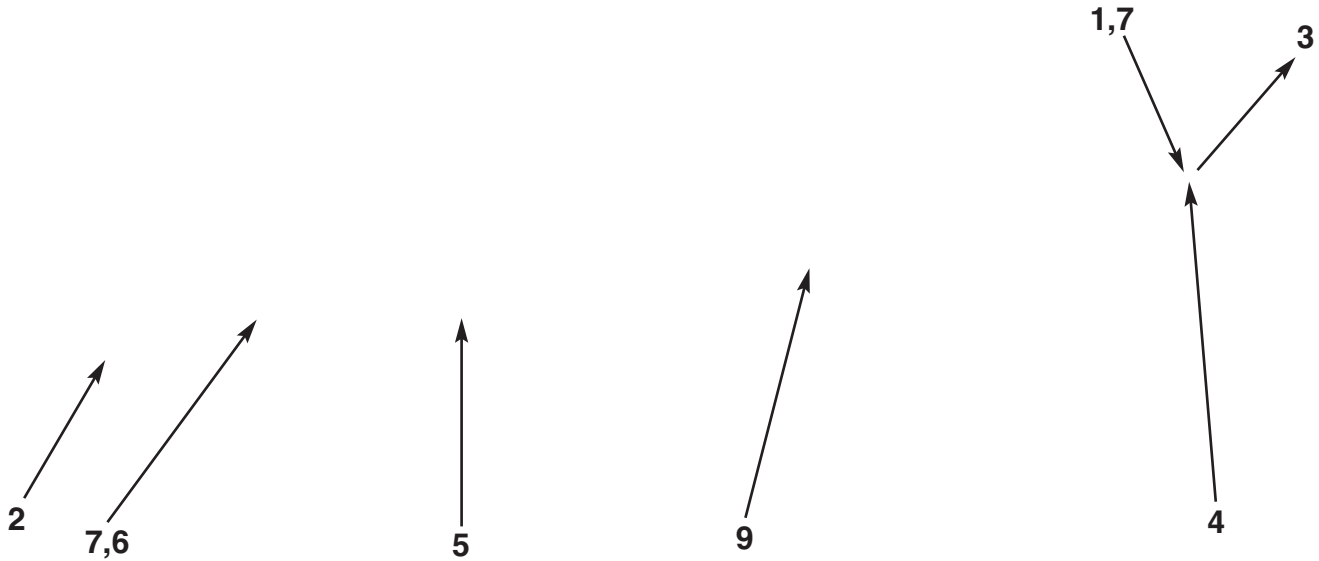


1. When installing a V-BOX on a SWAP LOADER FRAME using this mounting kit, all cross channels should be supported using item #2. This will keep the sharp edges of the cross channels from wearing into the loader frame rails. All cross channels should also use item #3, this will keep the cross and mounting channels from collapsing during assembly
2. This mounting kit includes one shim plate, spacer (item #2) for each end of each cross channel. Six mounting brackets (item #1) are included to fasten the V-BOX to the loader frame rails. Use two mounting brackets in front, two in the rear and two approximately in the center of the body.
3. Position V-BOX on loader frame to determine location for mounting brackets. Weld mounting brackets to loader frame rails and attach V-BOX to brackets using 3/4" bolts. mounting brackets may need to be trimmed to fit.

**00102565 CHASSIS MOUNTING KIT, SWP LDR FRAME, 8'-11'**  
**00102566 CHASSIS MOUNTING KIT, SWP LDR FRAME, 12'-14'**  
**00105783 CHASSIS MOUNTING KIT, SWP LDR FRAME, 15'-17'**

Item	Qty 8'-11'	Qty 12'-14'	Qty 15'-17'	Part Number	Description
1	6	6	8	00105737-A 00105737-B	MOUNTING BRACKET WELDMNT, CHASSIS, MS MOUNTING BRACKET WELDMNT, CHASSIS, SST
2	10	12	16	00022401-A 00022401-B	SHIM, SPACER 10.0, CHASSIS MOUNTING, MS
3	10	12	16	00072042-C 00072042-B	PIPE, 1 SCHED 40 X 1.250.MS
4	10	12	16	05010768	BOLT, .750-10 X 3, G8, HHCS, ZINC
5	10	12	16	05020849	NUT, .750-10, GC, TOP LOCK, C&W
6	20	24	32	05021312	WASHER, .750, FLAT, ZINC

# GREASE KITS



## REAR GREASE EXTENSIONS

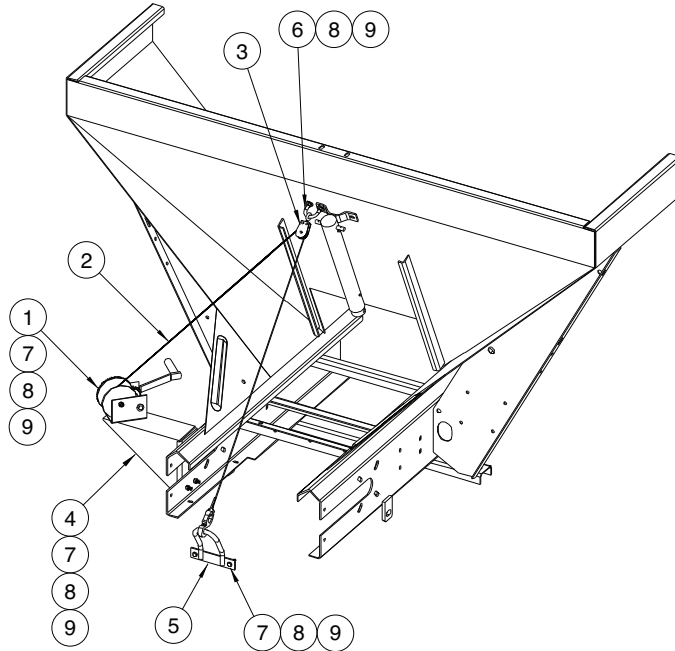
Item	Qty	Part Number	Description
1	2	00053181-A	Angle Mount, Grease Line, Single
2	2	05051481	Adapter, Grease Line, ¼-28 UNF
3	2	05050003	Grease Zerk, ½" NPT, Straight
4	2	05037660	Coupling, ½"
5	2	05037085	Hose Assembly, Grease Ext/Rear, 9' Box, 116" Long
	2	05037086	Hose Assembly, Grease Ext/Rear, 10' Box, 128" Long
	2	05037087	Hose Assembly, Grease Ext/Rear, 11' Box, 140" Long
	2	05037088	Hose Assembly, Grease Ext/Rear, 12' Box, 152" Long
	2	05037089	Hose Assembly, Grease Ext/Rear, 13' Box, 168" Long
	2	05037090	Hose Assembly, Grease Ext/Rear, 14' Box, 176" Long
	2	05037091	Hose Assembly, Grease Ext/Rear, 15' Box, 188" Long
	2	05037092	Hose Assembly, Grease Ext/Rear, 16' Box, 208" Long
	2	05038077	Hose Assembly, Grease Ext/Rear, 17' Box, 220" Long
6	2	05050151	Clamp, ⅜" ID, Cushioned Metal
7	4	05016942	Screw, Tek #10-16 x ¾", 410 SST
9	See Chart Below	05050744	Bushing, Open/Closed, Snap, .453 ID

<b>QUANTITY CHART FOR ITEM 9</b>					
<b>Size</b>	<b>9'-10'</b>	<b>11'-12'</b>	<b>13'-14'</b>	<b>15'-16'</b>	<b>17'</b>
<b>Qty.</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>

**00012513 GREASE KIT, FRONT**

<b>Item</b>	<b>Qty</b>	<b>Part Number</b>	<b>Description</b>
1	1	00020201	Angle Mount, Grease Line, Double
2	3	05050151	Clamp, 3/8" ID, Cushioned Metal
3	5	05016942	Screw, Tek, #10-16 x 3/4", 410 SST
4	2	05050632	Grommet, Rubber, 1 1/8" Dia., 5/8" Hole
5	2	05037660	Coupling, 1/8" NPT, Galv.
6	2	05050003	Grease Zerk, 1/8" NPT, Straight
7	2	05051481	Adapter, Grease Line, 1/4-28 UNF
8	1	00059374	Hose Assembly, 1/8" ID x 84", 1/8" MNPT x 1/8" MNPT
9	1	00080887	Hose Assembly, 48", Grease Line

# WINCH KITS



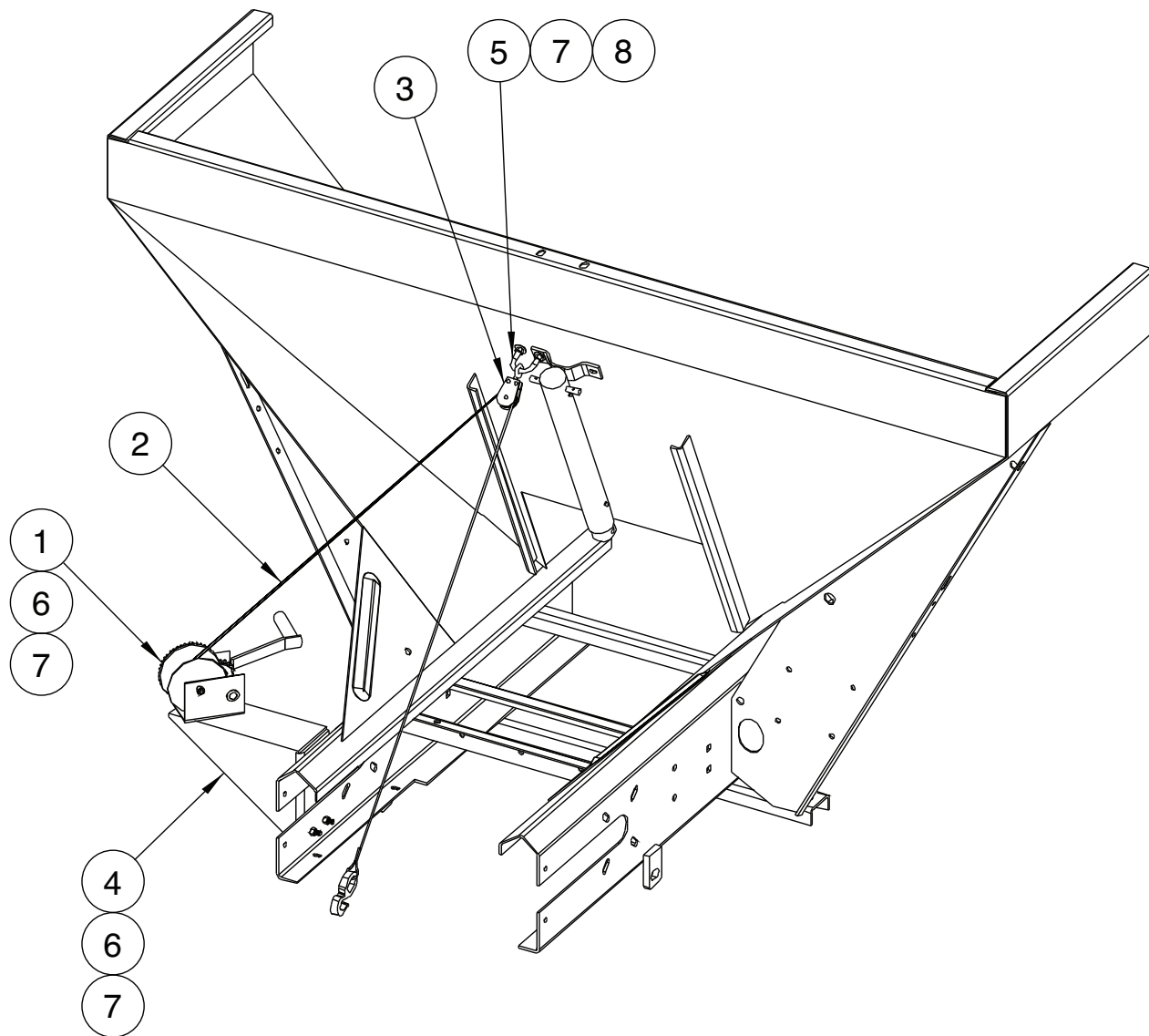
**00050707 WINCH KIT, 600#, WITHOUT BRAKE, RH**  
**00050706 WINCH KIT, 600#, WITHOUT BRAKE, LH**

Item	Qty	Part Number	Description
1	1	05050432	Winch, Hand, 600#, Without Brake, Zinc
2	1	05050436	Cable Assembly, Winch
3	1	05051155	Cable Block / Swivel Pulley Assembly
4	1	00029943	Bracket, Winch, LH
	1	00029944	Bracket, Winch, RH
5	1	00050716	Lift Loop Weldment
6	1	05016909	U-Bolt, $\frac{3}{8}$ -16 x $3\frac{1}{8}$ ", Zinc
7	8	05010644	Bolt, $\frac{3}{8}$ -16 x $1\frac{1}{4}$ ", G8, HHCS, Zinc
8	10	05020898	Nut, $\frac{3}{8}$ -16, GRC, Toplock, C&W
9	4	05021307	Washer, $\frac{3}{8}$ ", Flat, Zinc



**00050710 WINCH KIT, 800#, RH, W/ BRAKE & LIFT LOOP**  
**00050711 WINCH KIT, 800#, LH, W/ BRAKE & LIFT LOOP**

Item	Qty	Part Number	Description
1	1	05050112	Winch, Ratchet, w/ Brake
2	1	05051162	Cable Assembly
3	1	05051155	Cable Block/Swivel
4	1 1	00029944 00029943	Bracket, Winch, RH Bracket, Winch, LH
5	1	00050716	Lift Loop Weldment
6	1	05016909	U-Bolt, $\frac{3}{8}$ -16 x 3 $\frac{1}{2}$ , Zinc
7	8	05010644	Bolt, $\frac{3}{8}$ -16 x 1 $\frac{1}{4}$ , G8, HHCS, Zinc
8	10	05020898	Nut, $\frac{3}{8}$ -16, GC, Top Lock, C&W
9	4	05021307	Washer, $\frac{3}{8}$ , Flat, Zinc

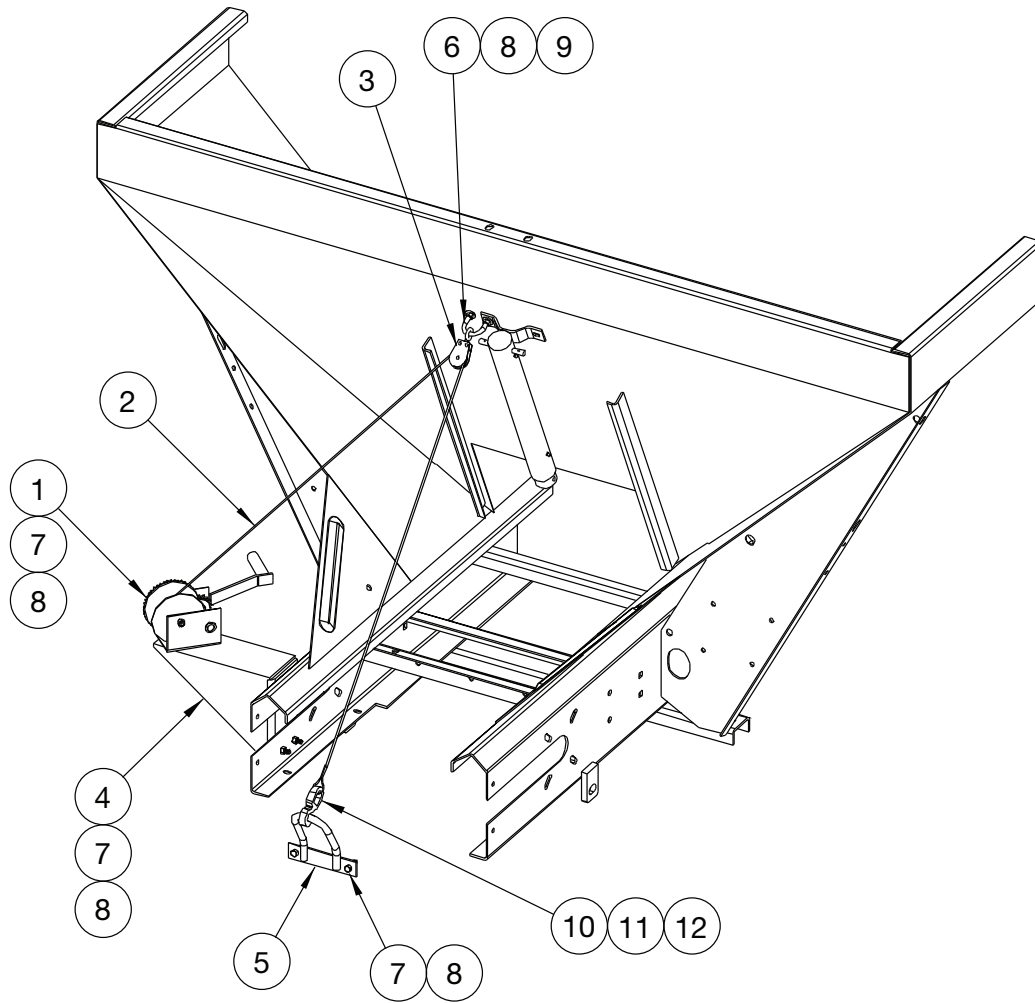


**00050709 WINCH KIT, 800#, WITH BRAKE, LH**  
**00050708 WINCH KIT, 800#, WITH BRAKE, RH**

Item	Qty	Part Number	Description
1	1	05050112	Winch, Ratchet, 800#, With Brake
2	1	05051162	Cable Assembly, Winch
3	1	05051155	Cable Block / Swivel Pulley Assembly
4	1	00029943	Bracket, Winch, LH
	1	00029944	Bracket, Winch, RH
5	1	05016909	U-Bolt, $\frac{3}{8}$ -16 x 3 $\frac{1}{2}$ ", Zinc
6	6	05010644	Bolt, $\frac{3}{8}$ -16 x 1 $\frac{1}{4}$ ", G8, HHCS, Zinc
7	8	05020898	Nut, $\frac{3}{8}$ -16, GRC, Toplock, C&W
8	4	05021307	Washer, $\frac{3}{8}$ ", Flat, Zinc

**00050712 WINCH KIT, 900#, WITH BRAKE, RH**  
**00050713 WINCH KIT, 900#, WITH BRAKE, LH**

Item	Qty	Part Number	Description
1	1	05051253	Winch, Hand, 900#, With Brake
2	1	05051162	Cable Assembly, Winch
3	1	05051155	Cable Block / Swivel Pulley Assembly
4	1	00029943	Bracket, Winch, LH
	1	00029944	Bracket, Winch, RH
5	1	05016909	U-Bolt, $\frac{3}{8}$ -16 x 3 $\frac{1}{2}$ ", Zinc
6	6	05010644	Bolt, $\frac{3}{8}$ -16 x 1 $\frac{1}{4}$ ", G8, HHCS, Zinc
7	8	05020898	Nut, $\frac{3}{8}$ -16, GRC, Toplock, C&W
8	4	05021307	Washer, $\frac{3}{8}$ ", Flat, Zinc



**00012813 WINCH KIT, 800#, WITH BRAKE & LIFT LOOP, LH, 1/8 SS CABLE**

Item	Qty	Part Number	Description
1	1	05050112	Winch, Ratchet, 800#, With Brake
2	25 FT	05050174	Cable, Winch, 1/8" SS, 7 x 19
3	1	05051155	Cable Block / Swivel Pulley Assembly
4	1	00029943	Bracket, Winch, LH
5	1	00050716	Lift Loop Weldment
6	1	05016909	U-Bolt, 3/8"-16 x 3 1/2", Zinc
7	8	05010644	Bolt, 3/8"-16 x 1 1/4", G8, HHCS, Zinc
8	10	05020898	Nut, 3/8"-16, GRC, Toplock, C&W
9	4	05021307	Washer, 3/8", Flat, Zinc
10	1	05050359	Hook, 5/16", Safety Snap, Spring-Loaded
11	1	05050233	Thimble, 1/8" SS Cable
12	1	05050234	Clamp, Cable, 1/8" Forged Steel

# LIGHT KITS

## 00012828 LIGHT KIT, SLIP IN

Item	Qty	Part Number	Description
1	2	00053259-A 00053259-B	Guard, Clearance Light, MS Guard, Clearance Light, 304 SST
2	2	05041078	Light Red, Clearance
3	1	05041079	Light, Red, 3 Bar Cluster
4	2	05051433	Reflector, Red, Stick-On
5	2	05051434	Reflector, Amber, Stick-On
6	12 FT	05041313	Cable Wire, 14 Gauge/ 2 Conductor
7	4	05050150	Clamp, 1/4" ID, Cushioned Metal
8	6	05010593	Bolt, 1/4-20 x 1, G8, HHCs, Zinc
9	6	05020899	Nut, 1/4-20, Top Lock, Zinc
10	10	05016060	Screw, 310-24 x 1, PH, TRS, HD
11	10	05020964	Nut, #10-24, Nylon Lock, 316 SST

## 00012829 4" SPOT LIGHT

Item	Qty	Part Number	Description
1	1	05041088	Light, Spot, Rubber Housing

## 00012836 LIGHT KIT, JUNCTION BOX ASSEMBLY

Item	Qty	Part Number	Description
1	1	05041583	Plug, 7-Pole Molded w/ 10' Cable
2	1	05041094	Junction Box, 4" Round

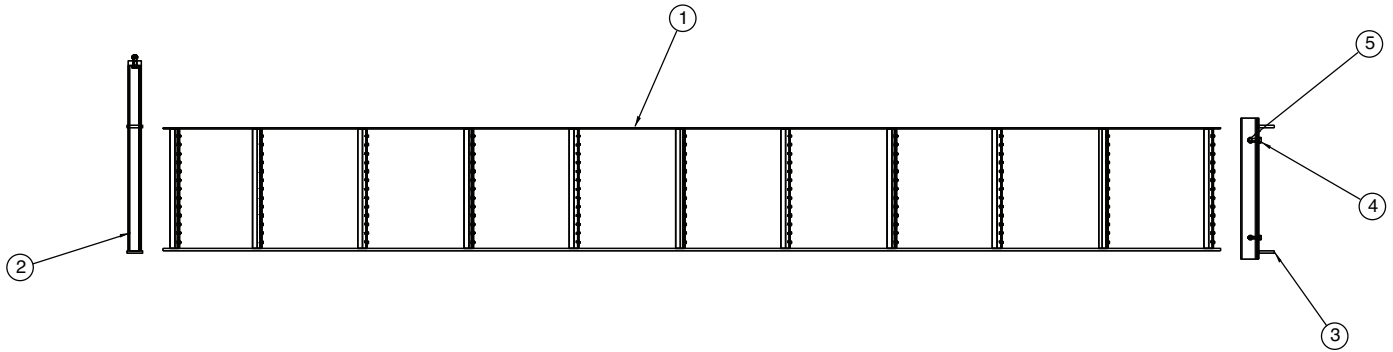
**00012831 LIGHT KIT, STOP/TURN/TAIL, PAIR**

Item	Qty	Part Number	Description
1	2	05041080	Light, Stop/Turn/Tail
2	10 FT	05041314	Cable Wire, 14 Gauge, /3 Conductor

**BAR LIGHTS**

Item	Qty	Part Number	Description
1	1	00056063-A	Bar Light, 30, MS
		00056063-B	Bar Light, 30, 304 SST
		00056063-D	Bar Light, 30, Corten
		00011881-A	Bar Light, 72, MS
		00011881-B	Bar Light, 72, 304 SST
		00011881-D	Bar Light, 72, Corten

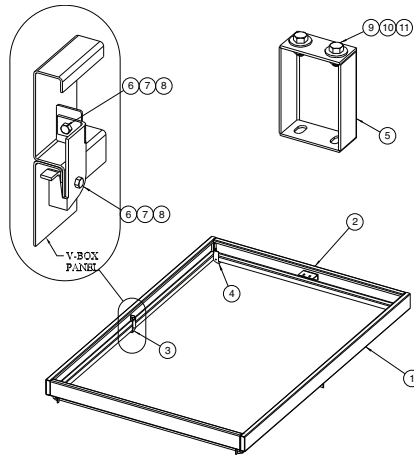
# LADDER ASSEMBLY, MV/MSV



## 00053239 LADDER ASSEMBLY

Item	Qty	Part Number	Description
1	1	00053234-A 00053234-B	Ladder Weldment, MS Ladder Weldment, 304 SST
2	1	00053238-A 00053238-B	Ladder Mount Weldment, Lower, MS Ladder Mount Weldment, Lower, 304 SST
3	1	00053236-A 00053236-B	Ladder Mount Weldment, Upper, MS Ladder Mount Weldment, Upper, 304 SST
4	4	05010644 05016049	Bolt, $\frac{3}{8}$ -16 x 1 $\frac{1}{4}$ , G8, HHCS, Zinc Bolt, $\frac{3}{8}$ -16 x 1 $\frac{1}{4}$ , HHCS, SST
5	4	05020898 05020891	Nut, $\frac{3}{8}$ -16, GC, Top Lock, C&W Nut, $\frac{3}{8}$ -16, Nylon Lock, SST

# SIDE EXTENSION KITS



## EXTENSION KIT, BOX, 6" SIDES

Item	Qty	Part Number	Description
1	2	00049600-*	Extension Weldment, Side, 9' x 6"
		00049602-*	Extension Weldment, Side, 10' x 6"
		00049604-*	Extension Weldment, Side, 11' x 6"
		00049606-*	Extension Weldment, Side, 12' x 6"
		00048265-*	Extension Weldment, Side, 13' x 6"
		00049608-*	Extension Weldment, Side, 14' x 6"
		00049610-*	Extension Weldment, Side, 15' x 6"
		00049612-*	Extension Weldment, Side, 16' x 6"
		00049614-*	Extension Weldment, Side, 17' x 6"
2	2	00048266-A	Extension Weldment, Front/Rear, 6", 10 Gauge, MS
		00048266-B	Extension Weldment, Front/Rear, 6", 12 Gauge, MS
		00048266-C	Extension Weldment, Front/Rear, 6", 10 Gauge, SST
		00048266-D	Extension Weldment, Front/Rear, 6", 12 Gauge, SST
3	3	00044260-A	Bracket, Side Extension Mount, LH, MS
		00044260-B	Bracket, Side Extension Mount, LH, SST (Qty. 4 used on 14'-17')
4	3	00044261-A	Bracket, Side Extension Mount, RH, MS
		00044261-B	Bracket, Side Extension Mount, RH, SST (Qty. 4 used on 14'-17')
5	1	00048799-A	Support Weldment, Top Beam, MS
		00048799-B	Support Weldment, Top Beam, SST (Qty. 2 used on 14'-17')
6	16	05010643	Bolt, 3/8-16 x 1, G8, HHCS, Zinc (Qty. 20 used on 14'-17')
7	16	05020898	Nut, 3/8-16, GC, Top Lock, C&W
		05020891	Nut, 3/8-16, Nylon Lock, SST (Qty. 20 used on 14'-17')
8	16	05021307	Washer, 3/8, Flat, Zinc
		05021390	Washer, 3/8, Flat, SST (Qty. 20 used on 14'-17')
9	2	05010689	Bolt, 1/2-13 x 1, G8, HHCS, Zinc
		05016047	Bolt, 1/2-13 x 1, HHCS, SST (Qty. 4 used on 14'-17')
10	2	05020847	Nut, 1/2-13, GC, Top Lock, C&W
		05020908	Nut, 1/2-13, Nylon Lock, SST (Qty. 4 used on 14'-17')
11	4	05021309	Washer, 1/2, Flat, Zinc
		05021391	Washer, 1/2, Flat, SST (Qty. 8 used on 14'-17')

\*Please indicate the steel specification when ordering the Extension Weldment Side.

**A - 10 Gauge, Mild Steel**

**C - 10 Gauge, 304 Stainless Steel**

**B - 12 Gauge, Mild Steel**

**D - 12 Gauge, 304 Stainless Steel**

For example when ordering a 9', 12 gauge, mild steel side extension you would order the part number: 00049600-B



## EXTENSION KIT, BOX, 12" SIDES

Item	Qty	Part Number	Description
1	2	00049601-*	Extension Weldment, Side, 9' x 12"
		00049603-*	Extension Weldment, Side, 10' x 12"
		00049605-*	Extension Weldment, Side, 11' x 12"
		00049607-*	Extension Weldment, Side, 12' x 12"
		00047874-*	Extension Weldment, Side, 13' x 12"
		00049609-*	Extension Weldment, Side, 14' x 12"
		00049611-*	Extension Weldment, Side, 15' x 12"
		00049613-*	Extension Weldment, Side, 16' x 12"
2	2	00047875-A	Extension Weldment, Front/Rear, 12", 10 Gauge, MS
		00047875-B	Extension Weldment, Front/Rear, 12", 12 Gauge, MS
		00047875-C	Extension Weldment, Front/Rear, 12", 10 Gauge, SST
		00047875-D	Extension Weldment, Front/Rear, 12", 12 Gauge, SST
3	3	00044260-A	Bracket, Side Extension Mount, LH, MS
		00044260-B	Bracket, Side Extension Mount, LH, SST (Qty. 4 used on 14'-17')
4	3	00044261-A	Bracket, Side Extension Mount, RH, MS
		00044261-B	Bracket, Side Extension Mount, RH, SST (Qty. 4 used on 14'-17')
5	1	00049635-A	Support Weldment, Top Beam, MS
		00049635-B	Support Weldment, Top Beam, SST (Qty. 2 used on 14'-17')
6	16	05010643	Bolt, 3/8-16 x 1, G8, HHCS, Zinc (Qty. 20 used on 14'-17')
7	16	05020898	Nut, 3/8-16, GC, Top Lock, C&W
		05020891	Nut, 3/8-16, Nylon Lock, SST (Qty. 20 used on 14'-17')
8	16	05021307	Washer, 3/8, Flat, Zinc
		05021390	Washer, 3/8, Flat, SST (Qty. 20 used on 14'-17')
9	2	05010689	Bolt, 1/2-13 x 1, G8, HHCS, Zinc
		05016047	Bolt, 1/2-13 x 1, HHCS, SST (Qty. 4 used on 14'-17')
10	2	05020847	Nut, 1/2-13, GC, Top Lock, C&W
		05020908	Nut, 1/2-13, Nylon Lock, SST (Qty. 4 used on 14'-17')
11	4	05021309	Washer, 1/2, Flat, Zinc
		05021391	Washer, 1/2, Flat, SST (Qty. 8 used on 14'-17')

\*Please indicate the steel specification when ordering the Extension Weldment Side.

- A - 10 Gauge, Mild Steel
- B - 12 Gauge, Mild Steel
- C - 10 Gauge, 304 Stainless Steel
- D - 12 Gauge, 304 Stainless Steel

For example when ordering a 9', 12 gauge, mild steel side extension you would order the part number: 00049600-B

## CABSHIELD KIT, BOLT ON

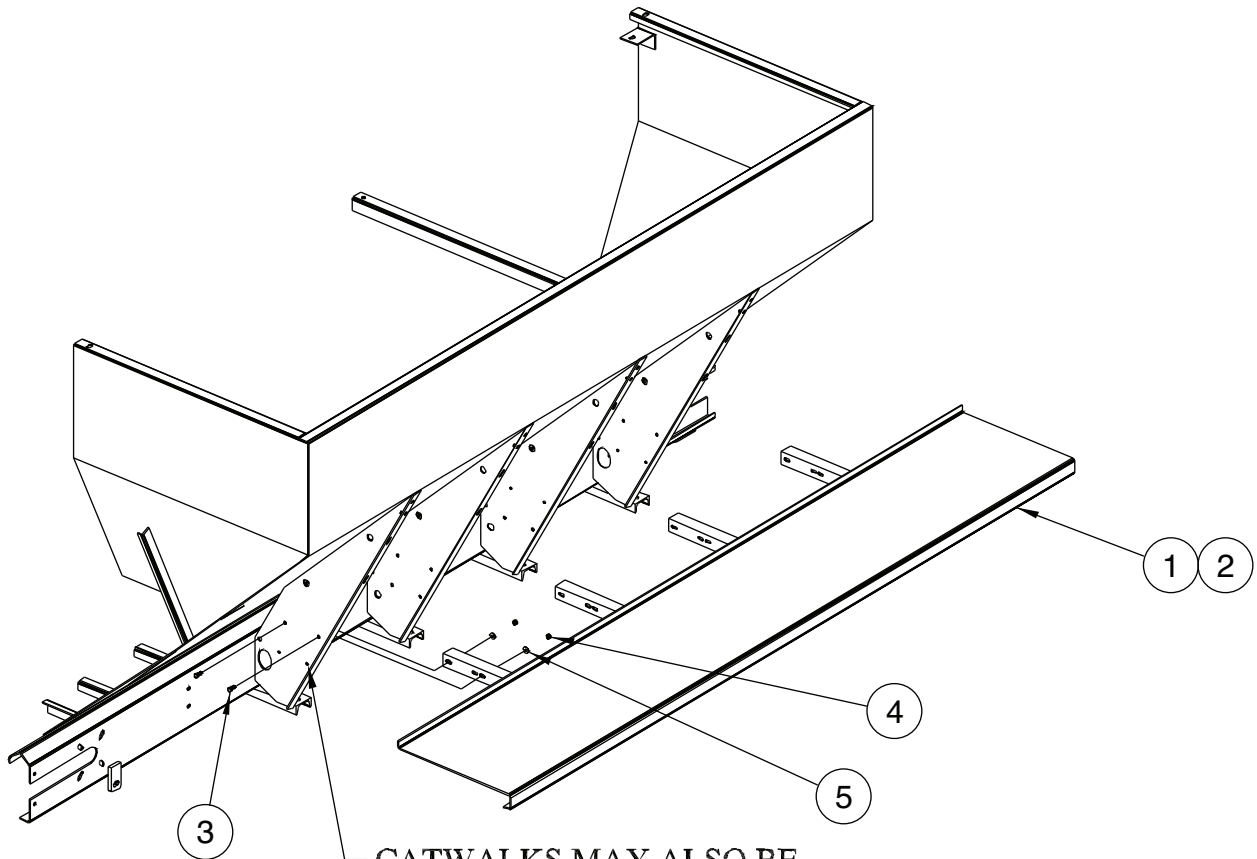
Item	Qty	Part Number	Description
1	1	00063442-*	Cabshield Weldment, 4 x 12 x 84
		00063443-*	Cabshield Weldment, 4 x 18 x 84
		00063444-*	Cabshield Weldment, 4 x 24 x 84
		00063445-*	Cabshield Weldment, 9 x 12 x 84
		00063446-*	Cabshield Weldment, 9 x 18 x 84
		00063447-*	Cabshield Weldment, 9 x 24 x 84
		00063448-*	Cabshield Weldment, 14 x 12 x 84
		00063449-*	Cabshield Weldment, 14 x 18 x 84
		00063450-*	Cabshield Weldment, 14 x 24 x 84
		00063451-*	Cabshield Weldment, 19 x 12 x 84
		00063452-*	Cabshield Weldment, 19 x 18 x 84
		00063453-*	Cabshield Weldment, 19 x 24 x 84
		00063454-*	Cabshield Weldment, 24 x 12 x 84
		00063455-*	Cabshield Weldment, 24 x 18 x 84
		00063456-*	Cabshield Weldment, 24 x 24 x 84
		00063457-*	Cabshield Weldment, 29 x 12 x 84
		00063458-*	Cabshield Weldment, 29 x 18 x 84
		00063459-*	Cabshield Weldment, 29 x 24 x 84
00063460-*	Cabshield Weldment, 34 x 12 x 84		
00063461-*	Cabshield Weldment, 34 x 18 x 84		
00063462-*	Cabshield Weldment, 34 x 24 x 84		
2	11	05010689	Bolt, ½-13 x 1, G8, HHCS, Zinc
		05016047	Bolt, ½-13 x 1, HHCS, SST
3	11	05020847	Nut, ½-13, GC, Top Lock, C&W
		05020906	Nut, ½-13, Nylon Lock, SST
4	11	05021309	Washer, ½, Flat, Zinc
		05021391	Washer, ½, Flat, SST

\*Please indicate the steel specification when ordering the Cabshield Weldment.

- A - 10 Gauge, Mild Steel
- B - 10 Gauge, 304 Stainless Steel
- C - 10 Gauge, 409 Stainless Steel
- D - 12 Gauge, Mild Steel
- E - 12 Gauge, 304 Stainless Steel
- F - 12 Gauge, 409 Stainless Steel

For example when ordering a 34 x 24 x 84, 12 Gauge, Mild Steel Cabshield you would order the part number: 00063462-D

# CATWALK, MV/MSV



CATWALKS MAY ALSO BE MOUNTED IN LOWER HOLES IF DESIRED.

## 00042903 CATWALK KIT, 8', PAIR

Item	Qty	Part Number	Description
1	1	00011778-E 00011778-B	Catwalk Weldment, 8', RH, MS Catwalk Weldment, 8', RH, 304 SST
2	1	00011779-E 00011779-B	Catwalk Weldment, 8', LH, MS Catwalk Weldment, 8', LH, 304 SST
3	12	05010643 05016034	Bolt, $\frac{3}{8}$ -16 x 1, G8, HHCS, Zinc Bolt, $\frac{3}{8}$ -16 x 1, HHCS, SST
4	12	05020898 05020891	Nut, $\frac{3}{8}$ -16, Top Lock, C&W Nut, $\frac{3}{8}$ -16, Nylon Lock, SST
5	12	05021307 05021390	Washer, $\frac{3}{8}$ , Flat, Zinc Washer, $\frac{3}{8}$ , Flat, SST

**00042904 CATWALK KIT, 9', PAIR**

Item	Qty	Part Number	Description
1	1	00011780-E 00011780-B	Catwalk Weldment, 9', RH, MS Catwalk Weldment, 9', RH, 304 SST
2	1	00011781-E 00011781-B	Catwalk Weldment, 9', LH, MS Catwalk Weldment, 9', LH, 304 SST
3	16	05010643 05016034	Bolt, 3/8-16 x 1, G8, HHCS, Zinc Bolt, 3/8-16 x 1, HHCS, SST
4	16	05020898 05020891	Nut, 3/8-16, Top Lock, C&W Nut, 3/8-16, Nylon Lock, SST
5	16	05021307 05021390	Washer, 3/8, Flat, Zinc Washer, 3/8, Flat, SST

**00042905 CATWALK KIT, 10', PAIR**

Item	Qty	Part Number	Description
1	1	00011782-E 00011782-B	Catwalk Weldment, 10', RH, MS Catwalk Weldment, 10', RH, 304 SST
2	1	00011783-E 00011783-B	Catwalk Weldment, 10', LH, MS Catwalk Weldment, 10', LH, 304 SST
3	16	05010643 05016034	Bolt, 3/8-16 x 1, G8, HHCS, Zinc Bolt, 3/8-16 x 1, HHCS, SST
4	16	05020898 05020891	Nut, 3/8-16, Top Lock, C&W Nut, 3/8-16, Nylon Lock, SST
5	16	05021307 05021390	Washer, 3/8, Flat, Zinc Washer, 3/8, Flat, SST

**00042906 CATWALK KIT, 11', PAIR**

Item	Qty	Part Number	Description
1	1	00011784-E 00011784-B	Catwalk Weldment, 11', RH, MS Catwalk Weldment, 11', RH, 304 SST
2	1	00011785-E 00011785-B	Catwalk Weldment, 11', LH, MS Catwalk Weldment, 11', LH, 304 SST
3	20	05010643 05016034	Bolt, 3/8-16 x 1, G8, HHCS, Zinc Bolt, 3/8-16 x 1, HHCS, SST
4	20	05020898 05020891	Nut, 3/8-16, Top Lock, C&W Nut, 3/8-16, Nylon Lock, SST
5	20	05021307 05021390	Washer, 3/8, Flat, Zinc Washer, 3/8, Flat, SST

<b>00042907 CATWALK KIT, 12', PAIR</b>			
<b>Item</b>	<b>Qty</b>	<b>Part Number</b>	<b>Description</b>
1	1	00011786-E 00011786-B	Catwalk Weldment, 12', RH, MS Catwalk Weldment, 12', RH, 304 SST
2	1	00011787-E 00011787-B	Catwalk Weldment, 12', LH, MS Catwalk Weldment, 12', LH, 304 SST
3	20	05010643 05016034	Bolt, $\frac{3}{8}$ -16 x 1, G8, HHCS, Zinc Bolt, $\frac{3}{8}$ -16 x 1, HHCS, SST
4	20	05020898 05020891	Nut, $\frac{3}{8}$ -16, Top Lock, C&W Nut, $\frac{3}{8}$ -16, Nylon Lock, SST
5	20	05021307 05021390	Washer, $\frac{3}{8}$ , Flat, Zinc Washer, $\frac{3}{8}$ , Flat, SST

<b>00042908 CATWALK KIT, 13', PAIR</b>			
<b>Item</b>	<b>Qty</b>	<b>Part Number</b>	<b>Description</b>
1	1	00011788-E 00011788-B	Catwalk Weldment, 13', RH, MS Catwalk Weldment, 13', RH, 304 SST
2	1	00011789-E 00011789-B	Catwalk Weldment, 13', LH, MS Catwalk Weldment, 13', LH, 304 SST
3	24	05010643 05016034	Bolt, $\frac{3}{8}$ -16 x 1, G8, HHCS, Zinc Bolt, $\frac{3}{8}$ -16 x 1, HHCS, SST
4	24	05020898 05020891	Nut, $\frac{3}{8}$ -16, Top Lock, C&W Nut, $\frac{3}{8}$ -16, Nylon Lock, SST
5	24	05021307 05021390	Washer, $\frac{3}{8}$ , Flat, Zinc Washer, $\frac{3}{8}$ , Flat, SST

**00042909 CATWALK KIT, 14', PAIR**

Item	Qty	Part Number	Description
1	1	00011790-E 00011790-B	Catwalk Weldment, 14', RH, MS Catwalk Weldment, 14', RH, 304 SST
2	1	00011791-E 00011791-B	Catwalk Weldment, 14', LH, MS Catwalk Weldment, 14', LH, 304 SST
3	24	05010643 05016034	Bolt, 3/8-16 x 1, G8, HHCS, Zinc Bolt, 3/8-16 x 1, HHCS, SST
4	24	05020898 05020891	Nut, 3/8-16, Top Lock, C&W Nut, 3/8-16, Nylon Lock, SST
5	24	05021307 05021390	Washer, 3/8, Flat, Zinc Washer, 3/8, Flat, SST

**00042910 CATWALK KIT, 15', PAIR**

Item	Qty	Part Number	Description
1	1	00011792-E 00011792-B	Catwalk Weldment, 15', RH, MS Catwalk Weldment, 15', RH, 304 SST
2	1	00011793-E 00011793-B	Catwalk Weldment, 15', LH, MS Catwalk Weldment, 15', LH, 304 SST
3	28	05010643 05016034	Bolt, 3/8-16 x 1, G8, HHCS, Zinc Bolt, 3/8-16 x 1, HHCS, SST
4	28	05020898 05020891	Nut, 3/8-16, Top Lock, C&W Nut, 3/8-16, Nylon Lock, SST
5	28	05021307 05021390	Washer, 3/8, Flat, Zinc Washer, 3/8, Flat, SST

**00042911 CATWALK KIT, 16', PAIR**

Item	Qty	Part Number	Description
1	1	00011794-E 00011794-B	Catwalk Weldment, 16', RH, MS Catwalk Weldment, 16', RH, 304 SST
2	1	00011795-E 00011795-B	Catwalk Weldment, 16', LH, MS Catwalk Weldment, 16', LH, 304 SST
3	28	05010643 05016034	Bolt, 3/8-16 x 1, G8, HHCS, Zinc Bolt, 3/8-16 x 1, HHCS, SST
4	28	05020898 05020891	Nut, 3/8-16, Top Lock, C&W Nut, 3/8-16, Nylon Lock, SST
5	28	05021307 05021390	Washer, 3/8, Flat, Zinc Washer, 3/8, Flat, SST

**00042912 CATWALK KIT, 17', PAIR**

Item	Qty	Part Number	Description
1	1	00011796-E 00011796-B	Catwalk Weldment, 17', RH, MS Catwalk Weldment, 17', RH, 304 SST
2	1	00011797-E 00011797-B	Catwalk Weldment, 17', LH, MS Catwalk Weldment, 17', LH, 304 SST
3	32	05010643 05016034	Bolt, 3/8-16 x 1, G8, HHCS, Zinc Bolt, 3/8-16 x 1, HHCS, SST
4	32	05020898 05020891	Nut, 3/8-16, Top Lock, C&W Nut, 3/8-16, Nylon Lock, SST
5	32	05021307 05021390	Washer, 3/8, Flat, Zinc Washer, 3/8, Flat, SST

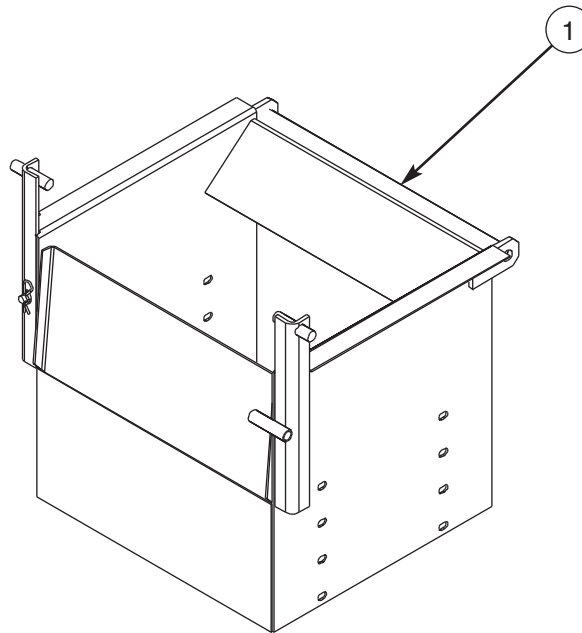
# SPINNER ASSEMBLIES

To order replacement parts for Spinner Assemblies please refer to the following chart. Choose the appropriate Top Level Spinner Number, and refer to the corresponding Chute Assembly and Lower Spinner Assembly to find the necessary replacement part. If any questions please call factory.

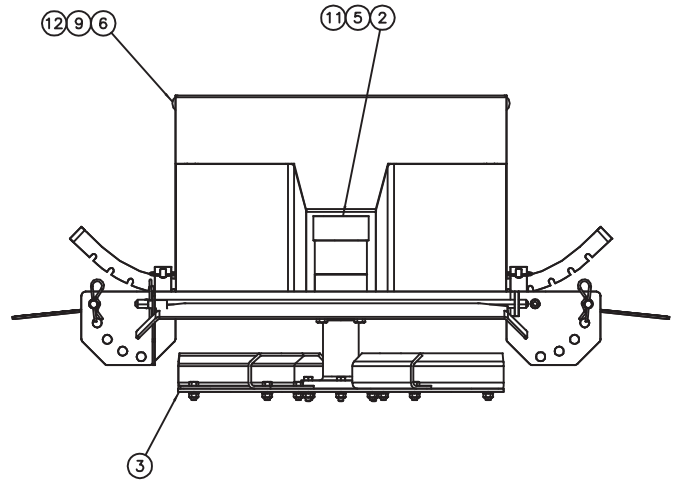
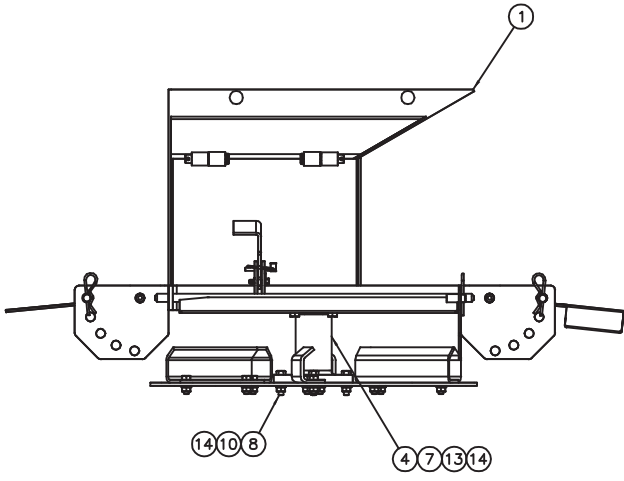
<b>Spinner Top Level Number</b>	<b>Chute Assembly Part Number</b>	<b>Lower Spinner Assembly Part Number</b>
<b>00067509</b> <i>Spinner Assy., Auger Tip-Up</i>	<b>00065915</b> <i>See Page 71</i>	<b>00028000</b> <i>See Pages 72-73</i>
<b>00012815</b> <i>Spinner Assy., Bolt On</i>	<b>00028044</b> <i>See Page 76</i>	<b>00028000</b> <i>See Pages 72-73</i>
<b>00016153</b> <i>Spinner Assy., w/ Speed Sensor, Bolt On</i>	<b>00028044</b> <i>See Page 76</i>	<b>00069599</b> <i>See Pages 74-75</i>



## 00065915 CHUTE ASSEMBLY, AUGER, TIP UP

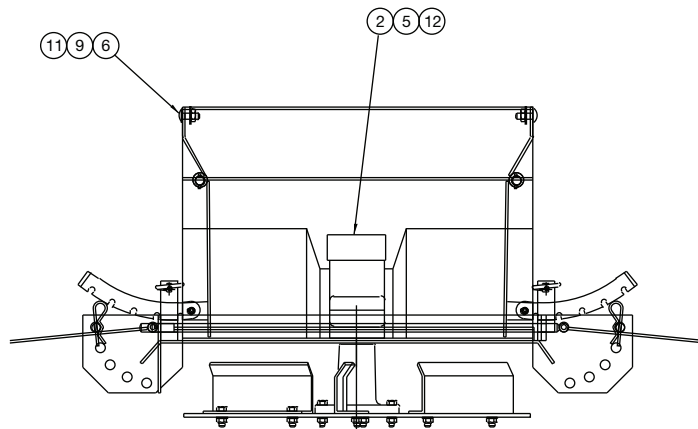
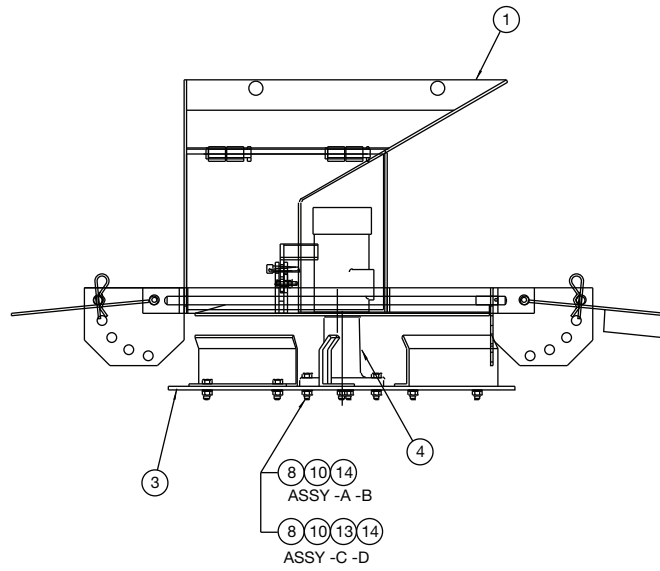
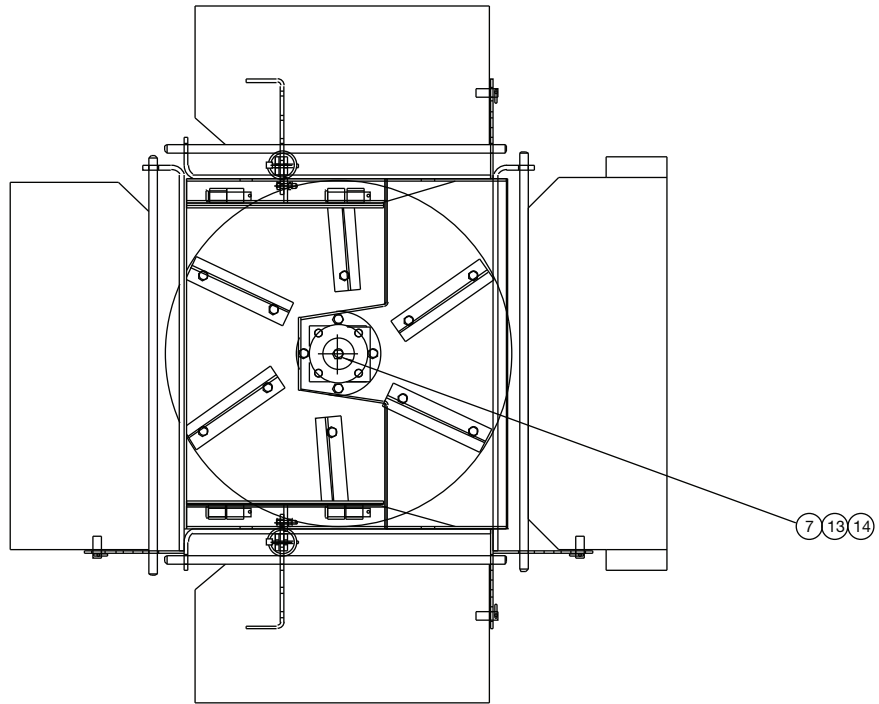


00065915 CHUTE ASSEMBLY, AUGER, TIP-UP			
Item	Qty	Part Number	Description
1	1	00026694-A 00026694-B	CHUTE WELDMENT, TIP-UP SPINNER, MS CHUTE WELDMENT, TIP-UP SPINNER, 304
2	1	00022880	LATCH ROD ASSEMBLY, MS
3	4	05010644 05016049	BOLT, .375-16 X 1.25, G8, HHCS, ZINC BOLT, .375-16 X 1.25, G8, HHCS, SST
4	4	05020898 05020891	NUT, .375-16, TOP LOCK, C&W, GR C NUT, .375-16, NYLON LOCK, 316 SST
5	1	05022035	PIN, #11, HAIR, ZINC
6	3	05051402	DECAL - DANGER: TURNING SPINNERS
7	2	00022879	HINGE PLATE, REAR, AUGER
8	1	05022136	PIN, .5 X 4.5, 4 GRIP BENT



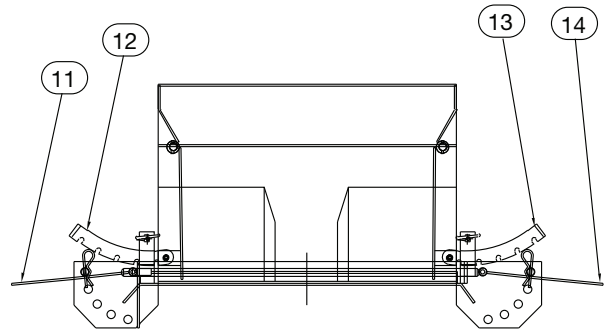
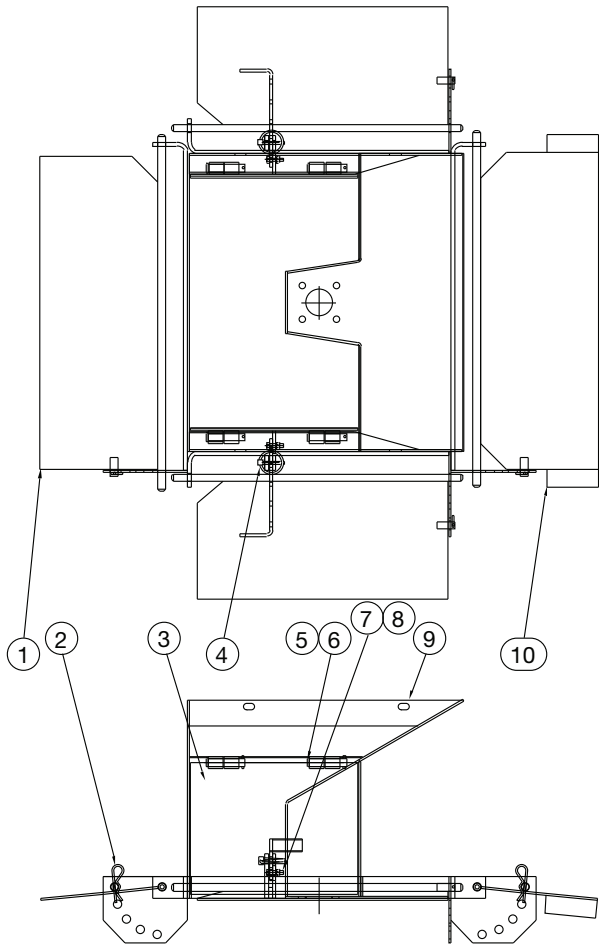
**00028000 SPINNER ASSEMBLY, LOWER**

Item	Qty	Part Number	Description
1	1	00028001-A	CHUTE ASSEMBLY, LOWER, 10 GAUGE, MS (SEE PAGE 76-77)
		00028001-B	CHUTE ASSEMBLY, LOWER, 10 GAUGE, SST
		00028001-C	CHUTE ASSEMBLY, LOWER, 10 GAUGE, CORTEN
		00028001-D	CHUTE ASSEMBLY, LOWER, 12 GAUGE, MS
		00028001-E	CHUTE ASSEMBLY, LOWER, 12 GAUGE, SST
2	1	05006673	MOTOR, HYDRAULIC, WHITE, 3.2 CID, 1" SHAFT (SEE PAGE 84-85)
3	4	00099404-A	SPINNER ASSEMBLY, 20", MS (SEE PAGE 81)
		00099404-B	SPINNER ASSEMBLY, 20", SST
		00099404-C	SPINNER ASSEMBLY, 20", AR
		00099401-A	SPINNER DISC ASSEMBLY, 18" MS, LONG HUB, CCW (SEE PAGE 79)
		00099401-B	SPINNER DISC ASSEMBLY, 18" SST, LONG HUB, CCW
		05050794	SPINNER DISC, 20" CCW, BLACK, POLY (SEE PAGE 76)
05050071-B	SPINNER DISC, 18" POLY, CCW, FORMED FIN (SEE PAGE 80)		
4	1	05050054	HUB SPINNER ASSEMBLY, EXT SFT, W/ SET SCREWS
5	4	05010642	BOLT, .375-16 X .875, G8, HHCS, ZINC
		05016050	BOLT, .375-16 X .875, HHCS, SST
6	4	05013986	BOLT, .375-16 X 1, G5, CARRIAGE, ZINC
		05016003	BOLT, .375-16 X 1, CARRIAGE, SST
7	1	05010630	BOLT, .313-18 X 4, G8, HHCS, ZINC
		05016150	BOLT, .313-18 X 4, HHCS, SST
8	4	05010619	BOLT, .313-18 X 1.25, G8, HHCS, ZINC
		05016139	BOLT, .313-18 X 1.25, HHCS, SST
9	4	05020898	NUT, .375-16, GC, TOP LOCK, C&W
		05020891	NUT, .375-16, NYLON LOCK, 316 SST
10	4	05020265	NUT, .313-18, G8, HEX, ZINC
		05020855	NUT, .313-18, HEX, SST
11	4	05021365	WASHER, .375, LOCK, ZINC
		05021392	WASHER, .375, LOCK, SST
12	4	05021307	WASHER, .375, FLAT, ZINC
		05021390	WASHER, .375, FLAT, SST
13	5	05021306	WASHER, .313, FLAT, ZINC
		05021404	WASHER, .313, FLAT, SST
14	5	05021364	WASHER, .313, LOCK, ZINC
		05021407	WASHER, .313, LOCK, SST



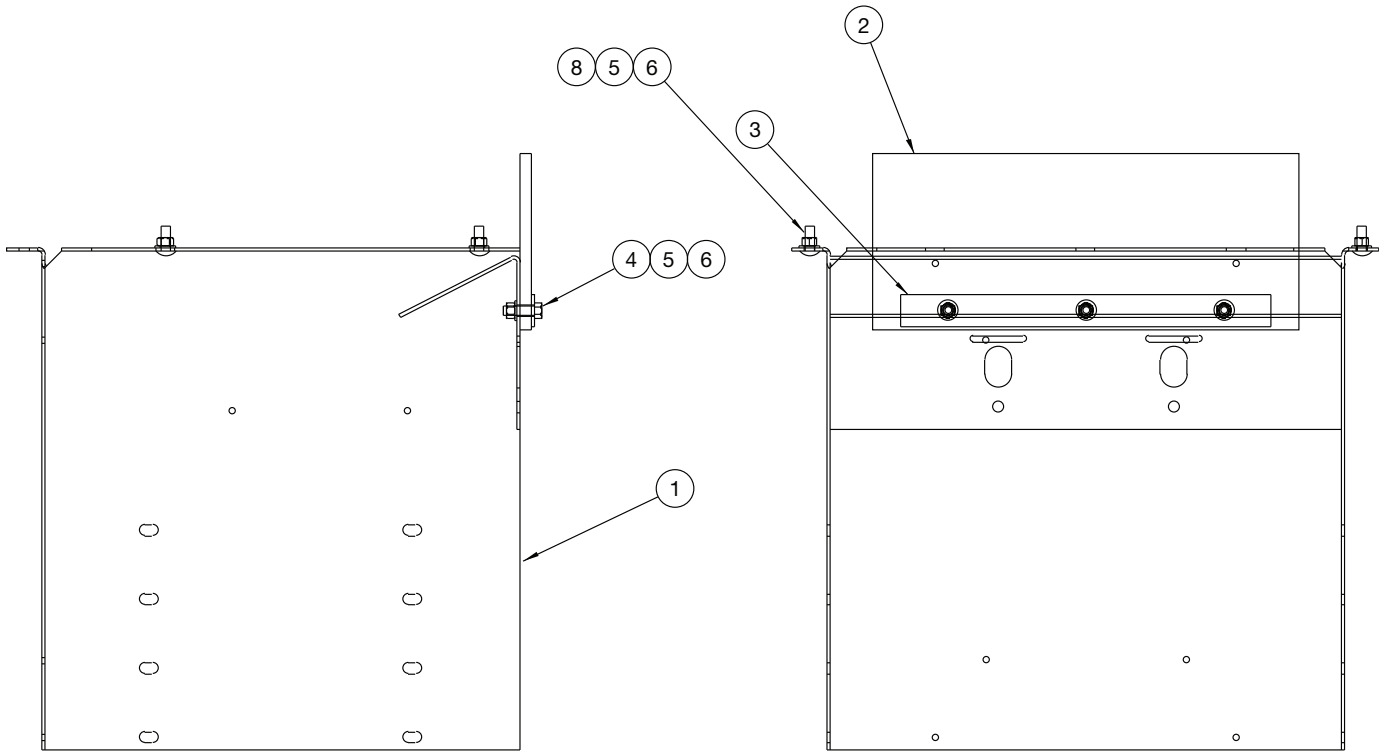
**00069599 SPINNER ASSEMBLY, LOWER**

Item	Qty	Part Number	Description
1	1	00028001-A 00028001-B	Chute Assembly, Lower, 10 Gauge, MS <i>(See page 76-77)</i> Chute Assembly, Lower, 10 Gauge, SST
2	1	05006557	Motor, Hydraulic, 3.2 CID, w/ Sensor White <i>(See page 86-87)</i>
3	1	00099404-A 00099404-B 05050794	Disc Assembly, 20" CCW, MS <i>(See page 139)</i> Disc Assembly, 20" CCW, SST Disc Spinner, 20 CCW, Poly with Molded Flights <i>(See page 76)</i>
4	1	05050054	Hub, Spinner Assembly
5	4	05010642 05016050	Bolt, 3/8-16 x 7/8, G8, HHCS, Zinc Bolt, 3/8-16 x 7/8, HHCS, SST
6	4	05013986 05016003	Bolt, 3/8-16 x 1, G5, Carriage, Zinc Bolt, 3/8-16 x 1, G5, Carriage, SST
7	1	05010630 05010628	Bolt, 5/16-18 x 4, G8, HHCS, Zinc <i>(for Poly Disc Only)</i> Bolt, 5/16-18 x 1 1/2, HHCS, SST
8	4	05010620 05016140 05010619	Bolt, 5/16-18 x 1 1/2, G8, HHCS, Zinc <i>(for Poly Disc Only)</i> Bolt, 5/16-18 x 1 1/2, HHCS, SST <i>(for Poly Disc Only)</i> Bolt, 5/16-18 x 1 1/4, G8, HHCS, Zinc
9	4	05020898 05020891	Nut, 3/8-16, Top Lock, C&W Nut, 3/8-16, Nylon Lock, SST
10	4	05020265 05020855	Nut, 5/16-18, G8, Hex, Zinc Nut, 5/16-18, G8, Hex, SST
11	4	05021307 05021390	Washer, 3/8, Flat, Zinc Washer, 3/8, Flat, SST
12	4	05021365 05021392	Washer, 3/8, Lock, Zinc Washer, 3/8, Lock, SST
13	1	05021306 05021404	Washer, 5/16, Flat, Zinc Washer, 5/16, Flat, SST
14	5	05021364 05021407	Washer, 5/16, Lock, Zinc Washer, 5/16, Lock, SST



**00028001 CHUTE ASSEMBLY, LOWER**

Item	Qty	Part Number	Description
1	1	00062116-A	Deflector Weldment, Rear, 10 Gauge, MS
		00062116-B	Deflector Weldment, Rear, 10 Gauge, SST
		00062116-C	Deflector Weldment, Rear, 10 Gauge, Corten
		00062116-D	Deflector Weldment, Rear, 12 Gauge, MS
		00062116-E	Deflector Weldment, Rear, 12 Gauge, SST
2	4	05022035	Pin, Hair, 1/8
3	2	00028003-A	Restrictor Gate, 10 Gauge, MS
		00028003-B	Restrictor Gate, 10 Gauge, SST
		00028003-D	Restrictor Gate, 10 Gauge, Corten
		00028003-E	Restrictor Gate, 12 Gauge, MS
		00028003-F	Restrictor Gate, 12 Gauge, SST
4	2	05022106	Pin, Lynch, .188
5	4	05022055	Pin, Clevis, 1/2x 2 1/2, MS
		05022069	Pin, Clevis, 1/2x 2 1/2, SST
6	4	05022072	Pin, Roll, .156 x 7/8
7	2	05010593	Bolt, 1/4-20 x 1, G8, HHCS, Zinc
		05016040	Bolt, 1/4-20 x 1, HHCS, SST
8	2	05020899	Nut, 1/4-20, GC, Top Lock, C&W
		05020906	Nut, 1/4-20, Nylon Lock, SST
9	1	00028002-A	Spinner Weldment, 10 Gauge, MS
		00028002-B	Spinner Weldment, 10 Gauge, SST
		00028002-C	Spinner Weldment, 10 Gauge, Corten
		00028002-D	Spinner Weldment, 12 Gauge, MS
		00028002-E	Spinner Weldment, 12 Gauge, SST
10	1	00062127-A	Deflector Weldment, Front, 10 Gauge, MS
		00062127-B	Deflector Weldment, Front, 10 Gauge, SST
		00062127-C	Deflector Weldment, Front, 10 Gauge, Corten
		00062127-D	Deflector Weldment, Front, 12 Gauge, MS
		00062127-E	Deflector Weldment, Front, 12 Gauge, SST
11	1	00062104-A	Deflector Weldment, RH, 10 Gauge, MS
		00062104-B	Deflector Weldment, RH, 10 Gauge, SST
		00062104-D	Deflector Weldment, RH, 10 Gauge, Corten
		00062104-E	Deflector Weldment, RH, 12 Gauge, MS
		00062104-F	Deflector Weldment, RH, 12 Gauge, SST
12	1	00028011-A	Gate Adjusting Bar, RH, MS
		00028011-B	Gate Adjusting Bar, RH, SST
		00028011-C	Gate Adjusting Bar, RH, Corten
13	1	00028012-A	Gate Adjusting Bar, LH, MS
		00028012-B	Gate Adjusting Bar, LH, SST
		00028012-C	Gate Adjusting Bar, LH, Corten
14	1	00062101-A	Deflector Weldment, LH, 10 Gauge, MS
		00062101-B	Deflector Weldment, LH, 10 Gauge, SST
		00062101-D	Deflector Weldment, LH, 10 Gauge, Corten
		00062101-E	Deflector Weldment, LH, 12 Gauge, MS
		00062101-F	Deflector Weldment, LH, 12 Gauge, SST

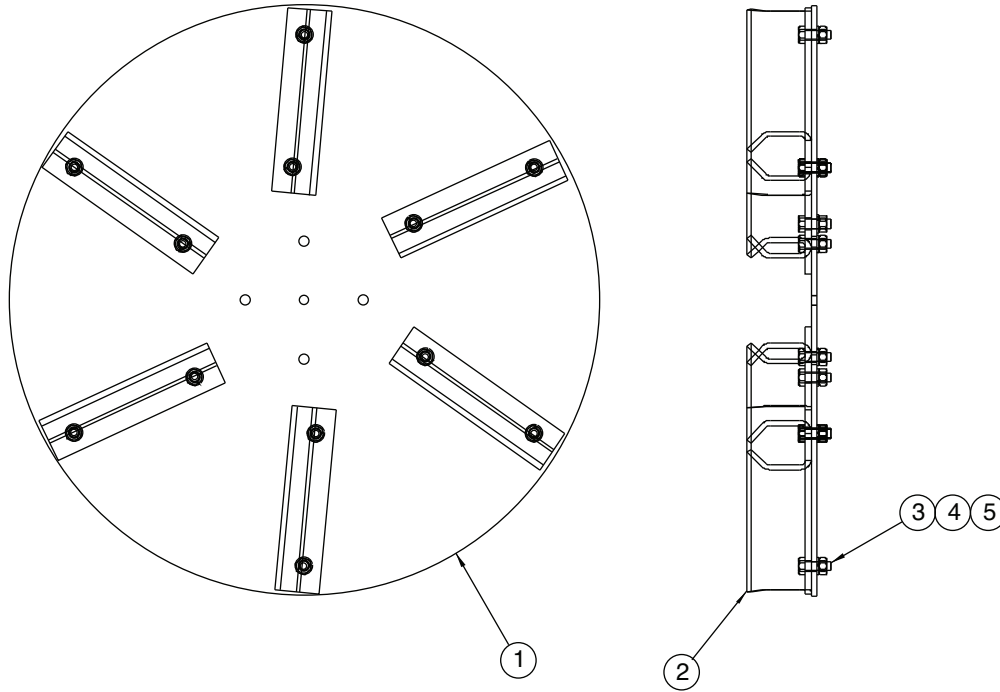


### 00028044 CHUTE ASSEMBLY, BOLT-ON

Item	Qty	Part Number	Description
1	1	00028043-A 00028043-B 00028043-C 00028043-D 00028043-E	Chute Weldment, Bolt On, 10 Gauge, MS Chute Weldment, Bolt On, 10 Gauge, SST Chute Weldment, Bolt On, 10 Gauge, Corten Chute Weldment, Bolt On, 12 Gauge, MS Chute Weldment, Bolt On, 12 Gauge, SST
2	1	05050055	Wiper, Rear
3	1	00053253-A 00053253-B 00053253-D	Wiper Bracket, MS Wiper Bracket, SST Wiper Bracket, Corten
4	3	05010644 05016049	Bolt, $\frac{3}{8}$ -16 x 1 $\frac{1}{4}$ , G8, HHCS, Zinc Bolt, $\frac{3}{8}$ -16 x 1 $\frac{1}{4}$ , HHCS, SST
5	7	05020898 05020891	Nut, $\frac{3}{8}$ -16, Top Lock, C&W Nut, $\frac{3}{8}$ -16, Nylon Lock, SST
6	7	05021307 05021390	Washer, $\frac{3}{8}$ , Flat, Zinc Washer, $\frac{3}{8}$ , Flat, SST
7	3	05051402	Decal - Danger: Turning Spinners
8	4	05013986 05016003	Bolt, $\frac{3}{8}$ -16 x 1, G5, Carriage, Zinc Bolt, $\frac{3}{8}$ -16 x 1, Carriage, SST
9	1	00091758	Canister Kit, Manual Storage



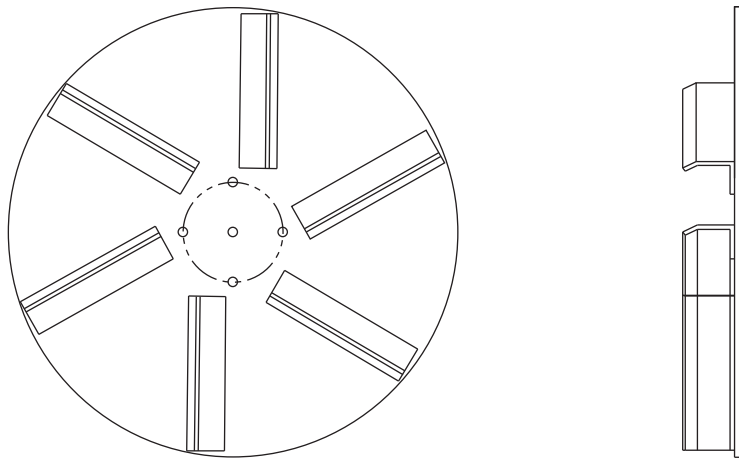
# SPINNER DISC ASSEMBLIES



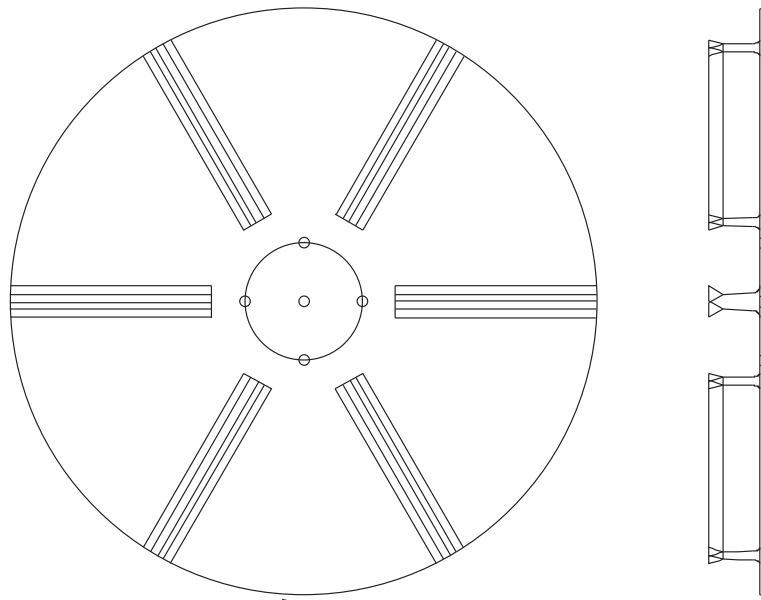
## 00099404 DISC ASSEMBLY, SPINNER, 20" CCW

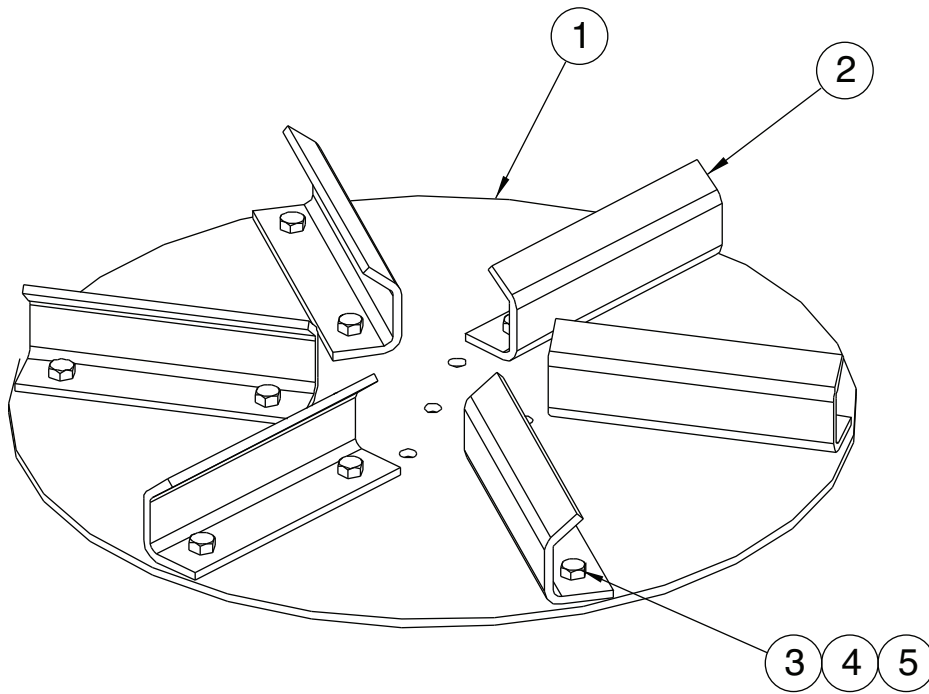
Item	Qty	Part Number	Description
1	1	00062012-A	Spinner Disc, 20" MS
		00062012-B	Spinner Disc, 20" SST
		00062012-C	Spinner Disc, 20" AR
		00062012-D	Spinner Disc, 20" Corten
2	6	00080425-A	Spinner Flight, MS
		00080425-B	Spinner Flight, SST
		00080425-C	Spinner Flight, Corten
3	12	05010617	Bolt, $\frac{5}{16}$ -18 x $\frac{7}{8}$ , G8, HHCS, Zinc
		05016137	Bolt, $\frac{5}{16}$ -18 x $\frac{7}{8}$ , HHCS, SST
4	12	05020265	Nut, Hex, $\frac{5}{16}$ -18, G8, Zinc
		05020855	Nut, Hex, $\frac{5}{16}$ -18, G8, SST
5	12	05021364	Washer, Lock, $\frac{5}{16}$ , Zinc
		05021407	Washer, Lock, $\frac{5}{16}$ , SSST

**05050071-B SPINNER DISK, 18" ,POLY, BLACK FORMED FINNS**



**05050794 SPINNER DISC, 20" CCW, POLY WITH MOLDED FLIGHTS**





**00099401 DISC ASSEMBLY, SPINNER, 18 CCW**

Item	Qty	Part Number	Description
1	1	00080420-A 00080420-B 00080420-D	Disc, Spinner, 18", MS Disc, Spinner, 18", SST Disc, Spinner, 18", AR
2	6	00080425-A 00080425-B	Flite, Spinner, MS Flite, Spinner, SST
3	12	05010617 05016137	Bolt, $\frac{5}{16}$ -18 x $\frac{7}{8}$ , G8, HHCS, Zinc Bolt, $\frac{5}{16}$ -18 x $\frac{7}{8}$ , HHCS, SST
4	12	05020265 05020855	Nut, $\frac{5}{16}$ -18, G8, Hex, Zinc Nut, $\frac{5}{16}$ -18, G8, Hex, SST
5	12	05021364 05021407	Washer, $\frac{5}{16}$ , Lock, Zinc Washer, $\frac{5}{16}$ , Lock, SST



**CAUTION**

Use care when mounting or dismounting.

IF DEFACTED - ORDER PART NO. 05051409


05051409


**CAUTION**

1. Keep all guards/shields in place.
2. Make certain everyone is clear of machine before starting engine or operation.
3. Keep hands, feet and clothing away from power driven parts.
4. Disengage PTO, shut off hydraulic valve and set parking brake before leaving operator's position. Make sure all movement has stopped before servicing or unclogging machine.
5. Make sure machine is solidly supported when it is being mounted, dismantled or stored.
6. Use flashing lights when operating machine.

IF DEFACTED - ORDER PART NO. 05051404

05051404

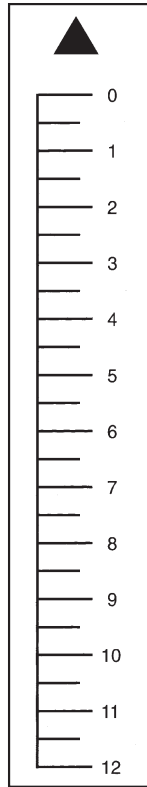
**POWDER COATED BY** 



**MONROE TRUCK EQUIPMENT**

IF DEFACTED - ORDER PART NO. 05050681

05050681



05051410



**DANGER**

**Moving conveyor/auger!**

- Disconnect and lockout power before servicing, adjusting or cleaning.
- Keep hands, feet, hair and loose clothing away from moving parts at all times
- Never remove or modify guards or shields

*Failure to heed will result in ~~bars~~ injury or death.*

IF DEFACTED - ORDER PART NO. 05051406

05051406



**WARNING**

Turning spinners throw material. Stay clear & wear eye protection while spinner is turning.

*Failure to heed will result in serious injury*

IF DEFACTED - ORDER PART NO. 05051402

05051402

**WARNING**



**CRUSH HAZARD!**  
V-Box Spreader Must Be Empty When Lifting Into and Out of Truck Body

*Failure to heed could result in serious injury or death.*

IF DEFACTED - ORDER PART NO. 05052885

05052885

**MONROE**  
SNOW & ICE CONTROL

**QUALITY CHECK**


Inspected by: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

05052311

05052311

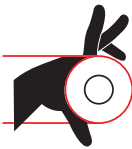


**WARNING**

Flying debris. Stay clear and wear eye protection. Failure to heed will result in serious injury.

IF DEFACTED - ORDER PART NO. 05051407

05051407



**DANGER**

**Moving conveyor!**

- Disconnect and lockout power before servicing, adjusting or cleaning.
- Keep hands, feet, hair and loose clothing away from moving parts at all times
- Never remove or modify guards or shields

*Failure to heed will result in ~~bars~~ injury or death.*

IF DEFACTED - ORDER PART NO. 05052309

05052309

**DANGER**

Keep all guards/shields in place. Moving parts can crush and dismember.

IF DEFACTED - ORDER PART NO. 05052310

05052310

**MONROE**  
SNOW & ICE CONTROL

IF DEFACTED - ORDER PART NO. 05051625

05051625

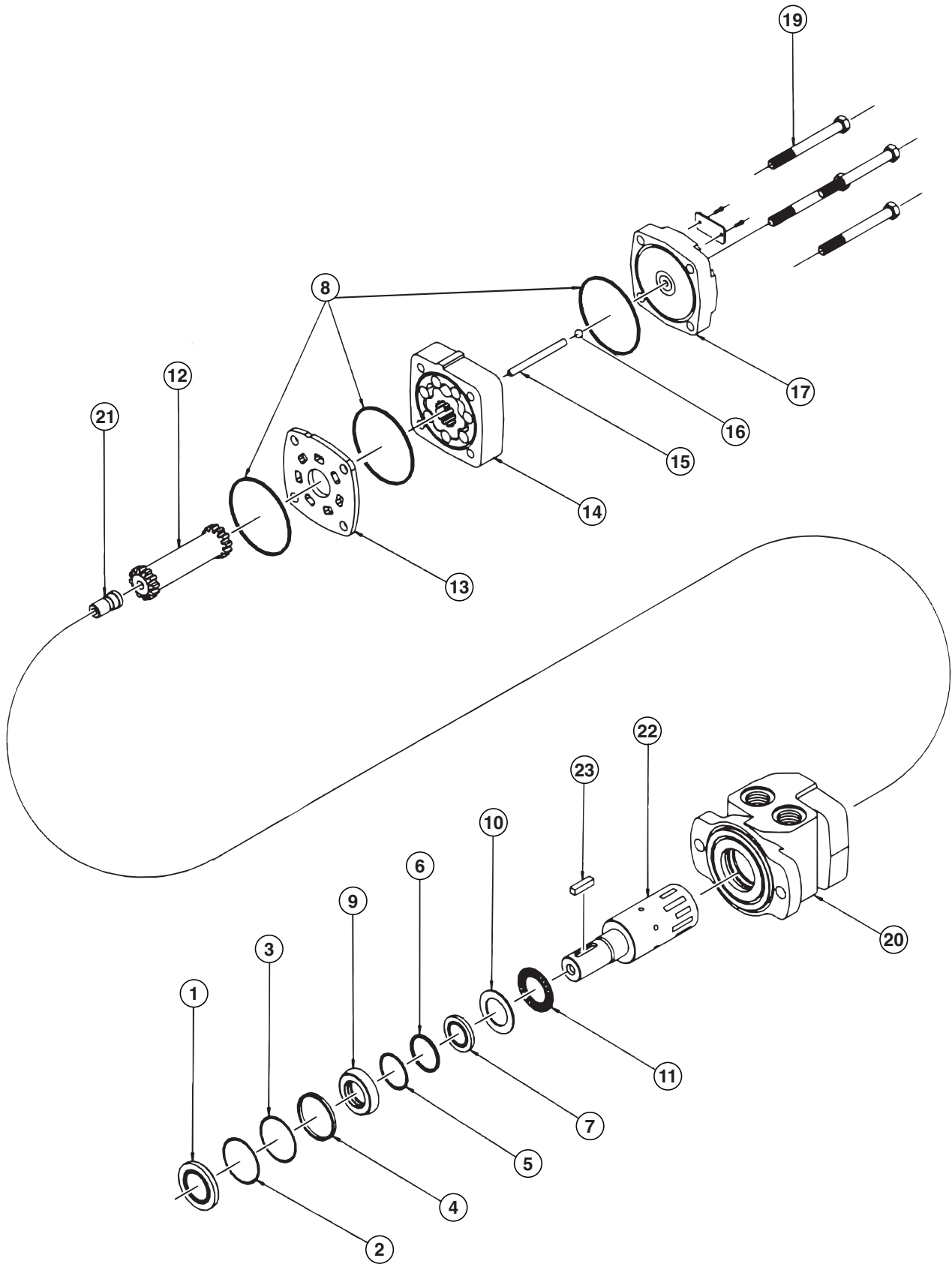
# MONROE SPREADER

05051405

**00058852 DECAL KIT, MV/MSV, W/POWDERCOAT**

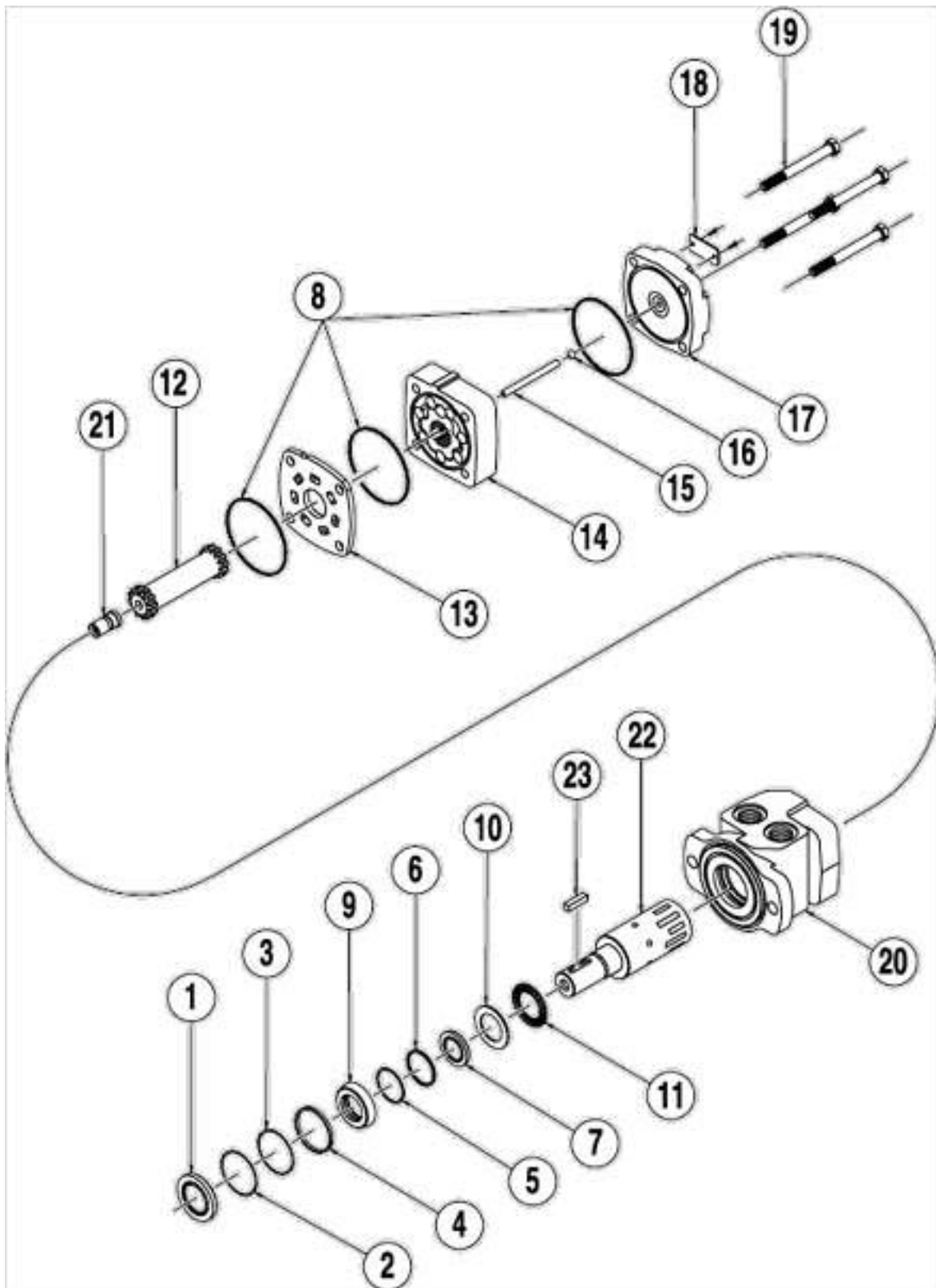
<b>Item</b>	<b>Qty</b>	<b>Part Number</b>	<b>Description</b>
1	1	05050681	Decal, Bonded Powder Coat
2	1	05051404	Decal, Caution, #1-#6
3	2	05051405	Decal, Monroe Spreader
4	3	05051406	Decal, Danger: Turn Power Off
5	1	05051407	Decal, Stay Clear, Wear Eye Protection
6	3	05052309	Decal, Danger, Moving Conveyor
7	1	05051409	Decal, Caution: Use Care When
8	1	05051410	Decal, Rear Door Ruler
9	1	05051625	Decal, Monroe Snow & Ice Control
10	1	05052311	Decal, Quality Check
11	1	05052310	Decal, Danger, Keep Guards In
12	4	05052885	Decal, Warning, Crush Hazard, 3 x 5

05006673 MOTOR, HYD, WHITE, 3.2CI, 4B, 1" EXT SHAFT, .875" ORB/SEAL SAVER



## MOTOR ASSEMBLY PARTS LIST

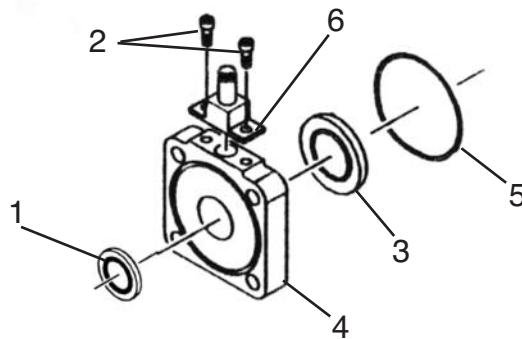
Item	Part Number	Description
1	Seal Kit 05006679	Dust Seal
2		Split Wire Ring
3		Metal Backup Shim
4		High Pressure Seal
5		Metal Backup Shim
6		Teflon Backup Shim
7		Shaft Seal
8		Body Seals (3)
9		Seal Carrier
10		Thrust Washer
11	---	Thrust Bearing
12	---	Drive Link Kit
13	---	Wear Plate
14	---	Rotor Kit
15	---	Drive Link Pin Kit
16	---	Included in item #15 Drive Link Pin Kit
17	---	End Cover
18	---	Serial Number Plate
19	---	Bolt Set Kit
20	05006564	Housing Kit, 4-Hole, w/ 7/8" O-Ring
21	---	Cooling Plug
22	05006410	Shaft Kit 1" Straight Speed Sensor
23	---	Key Kit, 1" Straight





## MOTOR ASSEMBLY PARTS LIST

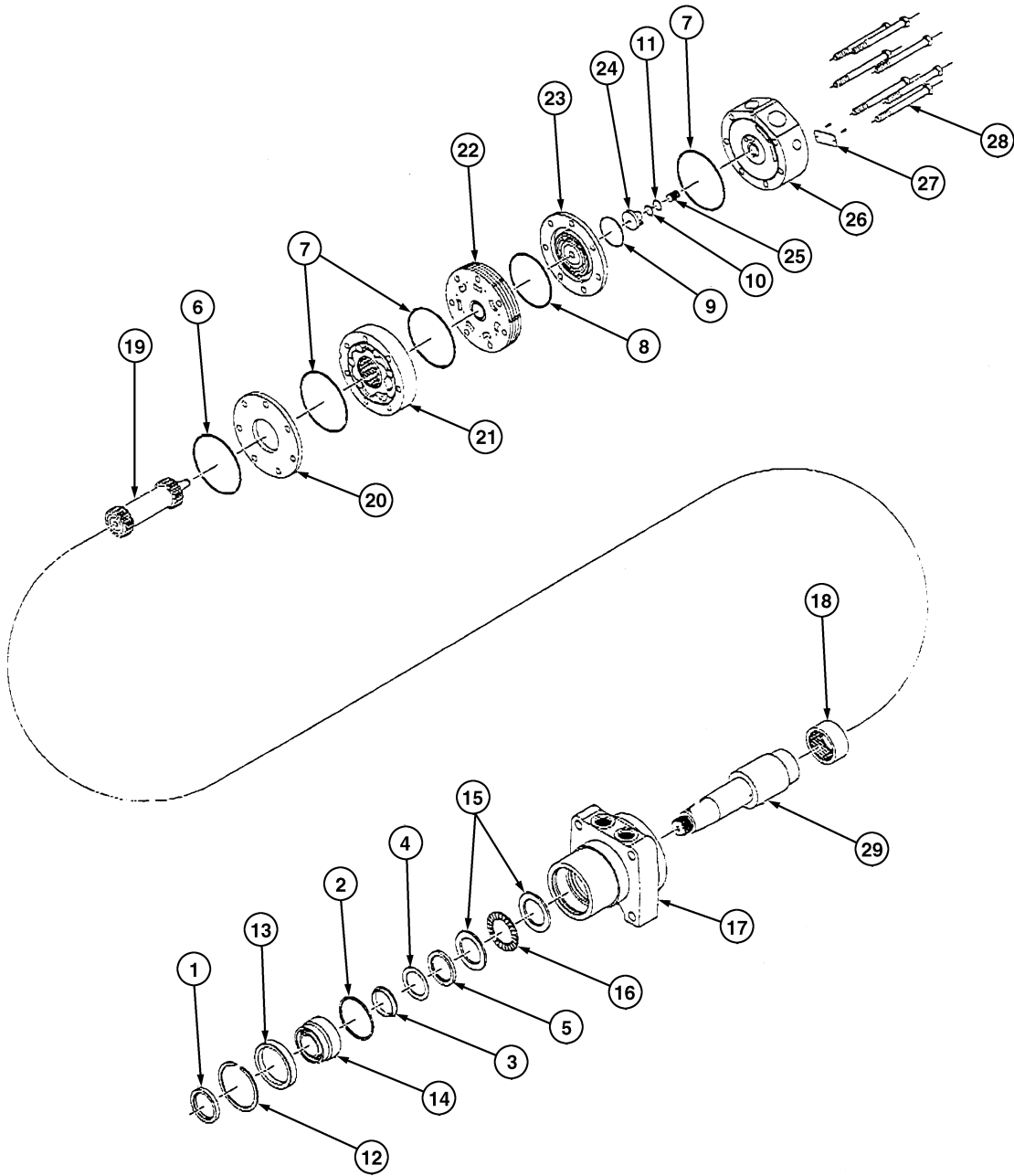
Item	Part Number	Description
1	Seal Kit 05006679	Dust Seal
2		Split Wire Ring
3		Metal Backup Shim
4		High Pressure Seal
5		Metal Backup Shim
6		Teflon Backup Shim
7		Shaft Seal
8		Body Seals (3)
9		Seal Carrier
10		Thrust Washer
11	---	Thrust Bearing
12	05006362	Drive Link Kit
13	---	Wear Plate
14	05006361	Rotor Kit
15	05006363	Drive Link Pin Kit
16	---	Included in item #15 Drive Link Pin Kit
17	---	End Cover
18	---	Serial Number Plate
19	05006364	Bolt Set Kit
20	05006564	Housing Kit, 4-Hole, w/ 7/8" O-Ring
21	05006371	Cooling Plug
22	05006410	Shaft Kit, 1" Straight
23	05006371	Key Kit



## SPEED SENSOR KIT

Item	Qty	Part Number	Description
1	1	05006560	Dust Seal
2	2	05006561	Sensor Attachment Screw
3	1	05006600	Sensor Magnet
4	1	05006418	4-Hole Sensor Flange
5	1	05006601	4-Hole Sensor Flange Seal
6	1	05006629	Speed Sensor ONLY - 100 Pulse

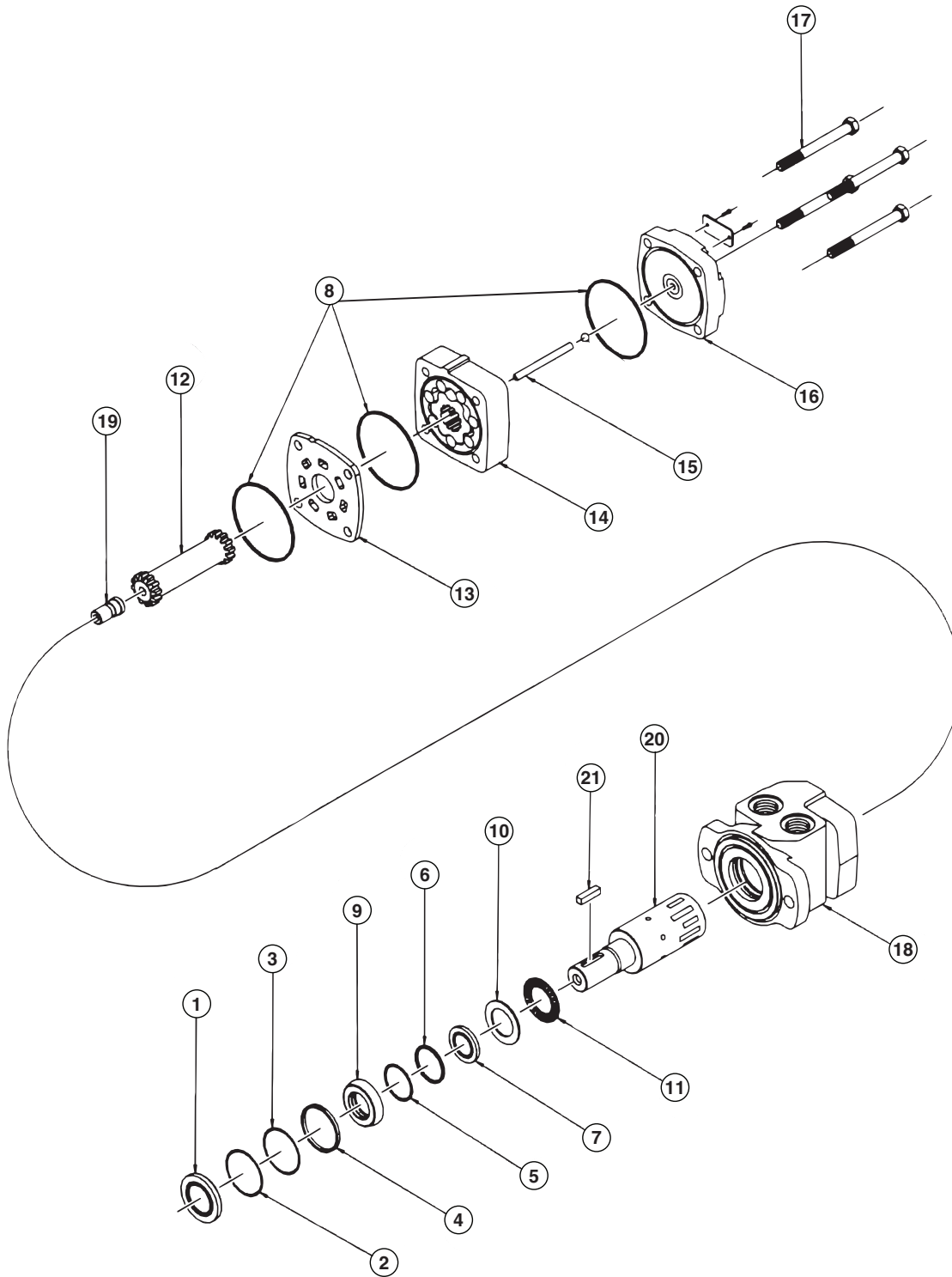
# 05006128 -- MOTOR, DT



## MOTOR PARTS BREAKDOWN

ITEM	QTY	PART #	DESCRIPTION
	1	05006230	Seal Kit <i>(Items 1-11 are included in the Seal Kit and can not be purchased separately.)</i>
1	1	--	Seal, Dust
2	1	--	Seal, High Pressure
3	1	--	Shim, Metal Backup
4	1	--	Seal, Teflon Backup
5	1	--	Seal, Shaft
6	1	--	Seal, Housing
7	3	--	Seal, Body
8	1	--	Seal, Manifold
9	1	--	Seal, Commutator
10	1	--	Seal, O-ring
11	1	--	Seal, Teflon Backup
12	1	05006231	Ring, Snap, Retaining
13	1	05006232	Spacer, Bearing
14	1	05006233	Bearing, 1½"
15	2	05006234	Washer, Thrust
16	1	05006235	Bearing, Thrust
17	1	05006236	Housing <i>(Includes bearing #18 installed.)</i>
18	1	05006237	Bearing, Rear Housing
19	1	05006238	Link, Drive
20	1	05006239	Plate, Divider
21	1	05006240	Rotor Assembly
22	1	05006241	Manifold
23	1	05006242	Commutator Assembly
24	1	05006243	End Cover, Piston
25	1	05006244	Spring, Piston
26	1	05006245	End Cover <i>(Includes items 10, 11, 24 &amp; 25.)</i>
27	1	--	I.D. Tag Assembly
28	7	05006246	Bolts, Assembly
29	1	05006247	Shaft

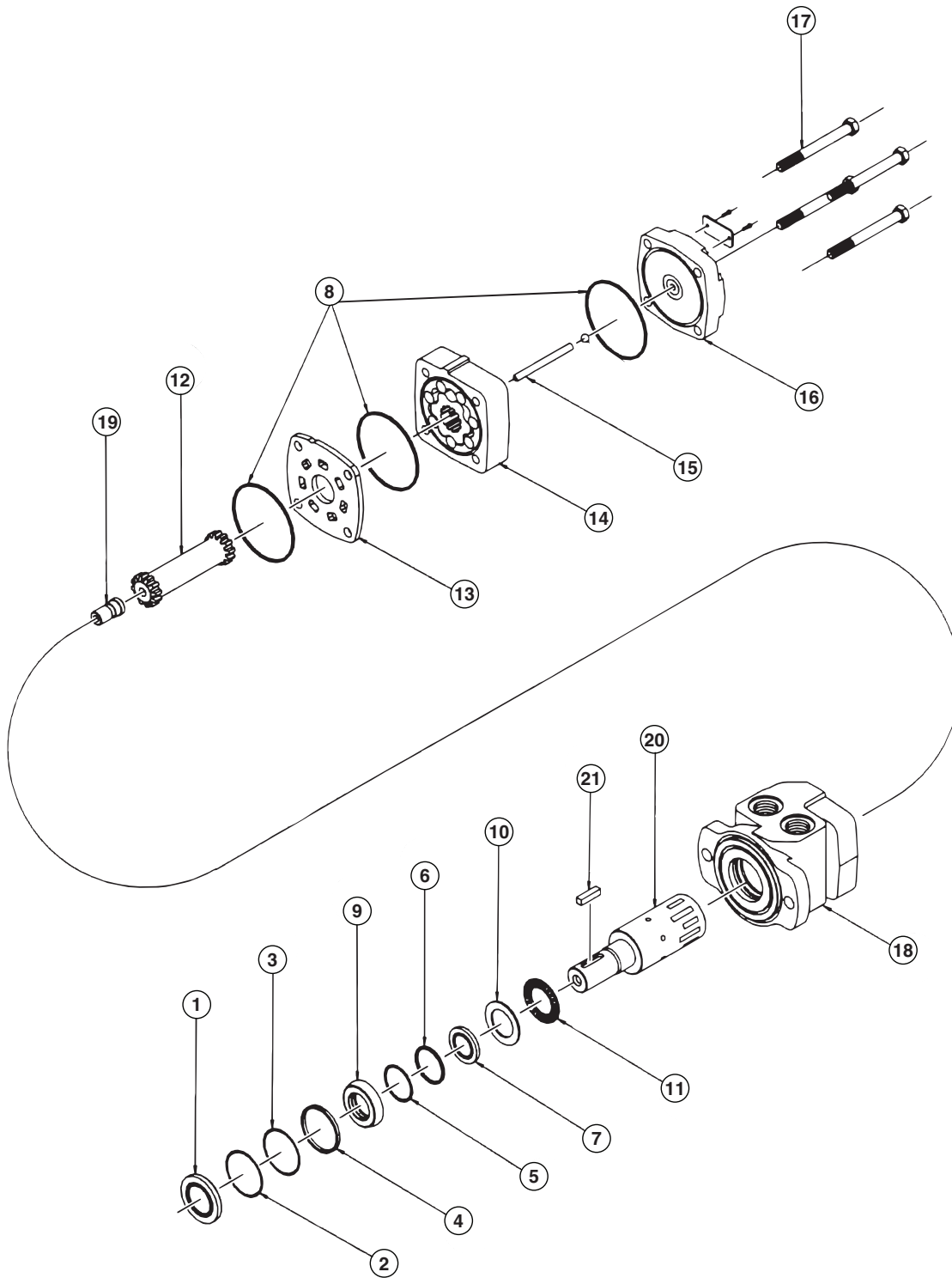
05006134 Motor, 3.2 C.I., 4-Bolt, 1/2" NPT



## 05006134 MOTOR PARTS LIST

ITEM	QTY	PART #	DESCRIPTION
	1	05006061	Seal Kit <i>(Items 1-10 are included in the Seal Kit and can not be purchased separately.)</i>
1	1	--	Seal, Dust
2	1	--	Ring, Split Wire
3	1	--	Shim, Metal Backup
4	1	--	Seal, High Pressure
5	1	--	Shim, Metal Backup
6	1	--	Shim, Teflon Backup
7	1	--	Seal, Shaft
8	3	--	Seal, Body
9	1	--	Seal, Carrier
10	1	--	Washer, Thrust
11	1	05006357	Bearing, Thrust
12	1	05006362	Drive Link Kit
13	1	05006359	Wear Plate
14	1	05006361	Rotor Kit
15	1	05006363	Drive Link Pin Kit
16	1	05006360	End Cover
17	1	05006364	Bolt Set Kit
18	1	05006369	4-Hole w/ 1/2" NPT, Housing Kit
19	1	05006358	Cooling Plug
20	1	05006370	Shaft Kit, 1" Straight
21	1	05006371	Key Kit, 1" Straight

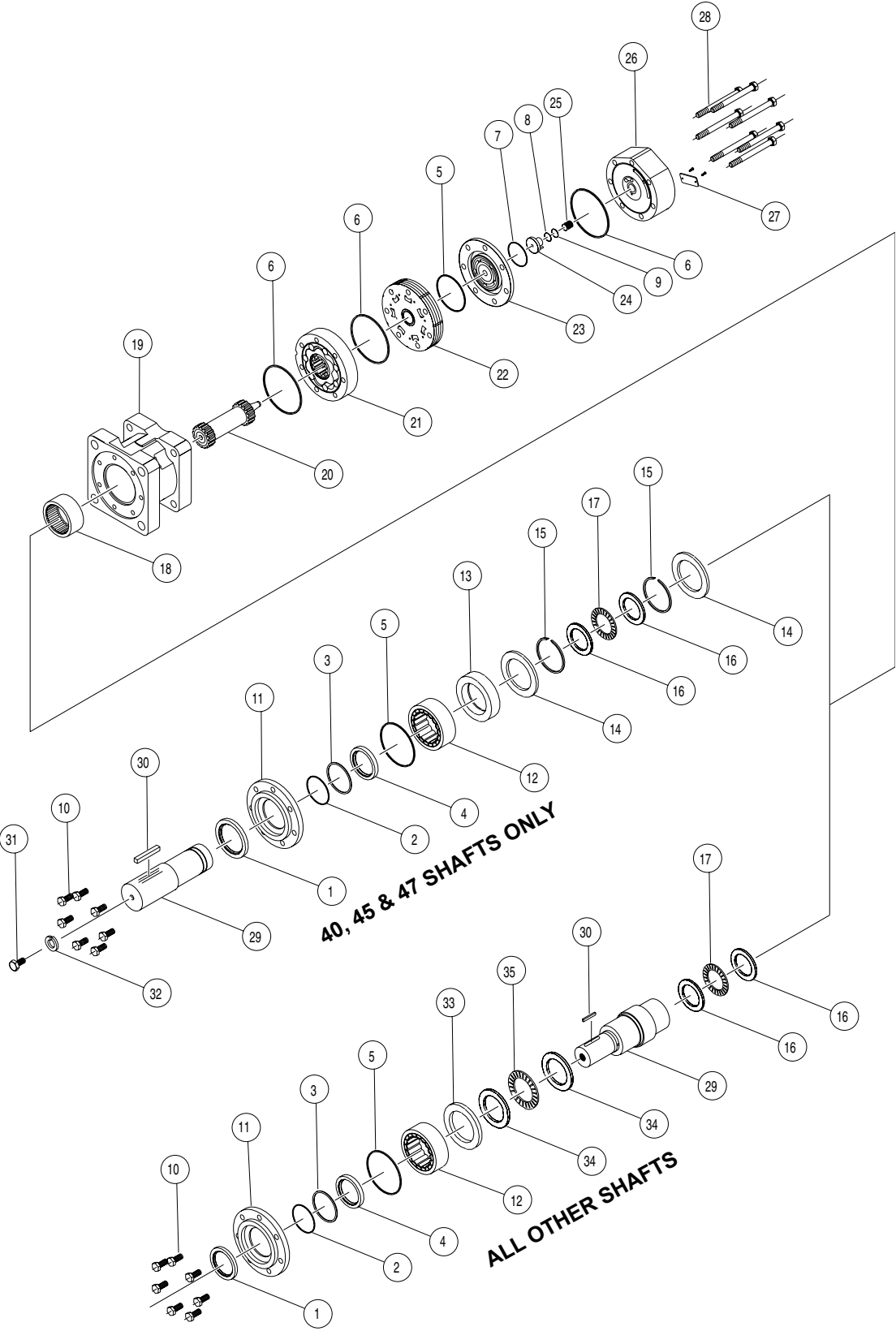
# 05006217 Motor, Hydraulic, 3.2 CID



## 05006217 MOTOR PARTS LIST

ITEM	QTY	PART #	DESCRIPTION
	1	05006061	Seal Kit <i>(Items 1-10 are included in the Seal Kit and can not be purchased separately.)</i>
1	1	--	Seal, Dust
2	1	--	Ring, Split Wire
3	1	--	Shim, Metal Backup
4	1	--	Seal, High Pressure
5	1	--	Shim, Metal Backup
6	1	--	Shim, Teflon Backup
7	1	--	Seal, Shaft
8	3	--	Seal, Body
9	1	--	Seal, Carrier
10	1	--	Washer, Thrust
11	1	05006357	Bearing, Thrust
12	1	05006362	Drive Link Kit
13	1	05006359	Wear Plate
14	1	05006476	Rotor Kit
15	1	05006063	Drive Link Pin Kit
16	1	05006360	End Cover
17	1	05006475	Bolt Set Kit
18	1	05006369	4-Hole w/ 1/2" NPT, Housing Kit
19	1	05006358	Cooling Plug
20	1	05006410	Shaft Kit, 1" Straight
21	1	05006371	Key Kit, 1" Straight

05006445 MOTOR, HYD, WHITE, 66CI, 4B, 14T, .0625" ORB, DT

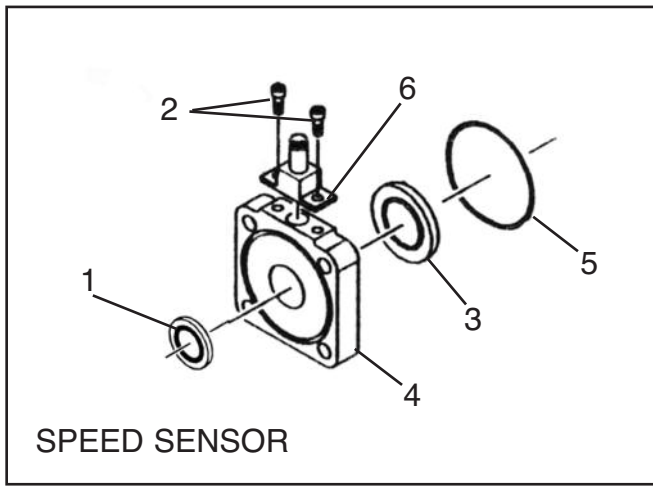
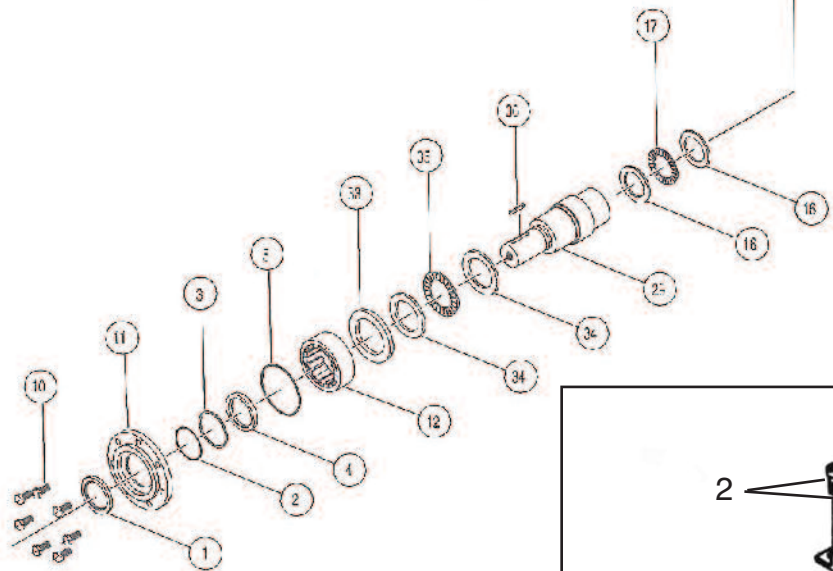
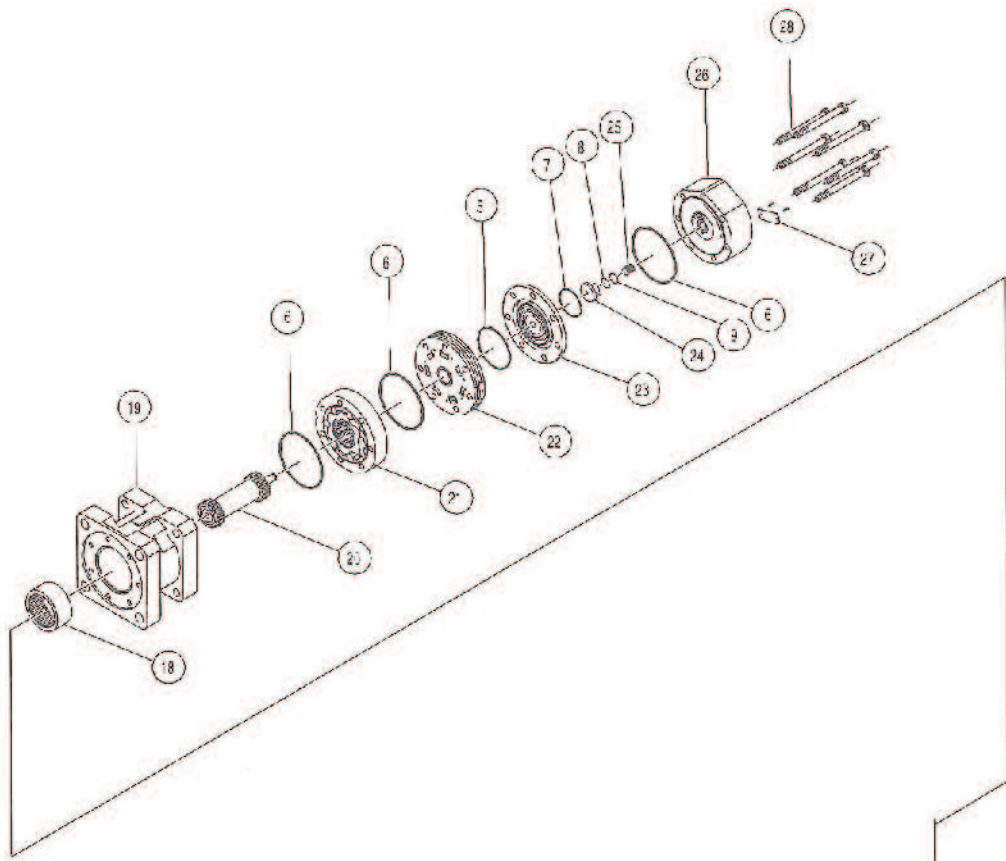




## MOTOR ASSEMBLY PARTS LIST

Item	Part Number	Description
1	Seal Kit 05006674	DUST SEAL
2		METAL BACKUP SHIM
3		TEFLON BACKUP SEAL
4		SAHFT SEAL
5		PILOT RING SEAL
6		BODY SEAL (3)
7		COMMUTATOR SEAL
8		TEFLON BACKUP SEAL
9		O-RING SEAL
10	<i>Call factory</i>	PILOT RING BOLTS
11	<i>Call factory</i>	PILOT RING
12	<i>Call factory</i>	FRONT HOUSING BEARING
13	<i>Call factory</i>	BEARING SPACER
14	<i>Call factory</i>	RETAINER WASHER
15	<i>Call factory</i>	SNAP RING
16	<i>Call factory</i>	THRUST WASHER
17	<i>Call factory</i>	THRUST BEARING
18	<i>Call factory</i>	REAR HOUSING BEARING
19	<i>Call factory</i>	HOUSING
20	<i>Call factory</i>	DRIVE LINK KIT
21	<i>Call factory</i>	STANDARD ROTOR KIT
22	<i>Call factory</i>	MANIFOLD
23	<i>Call factory</i>	COMMUTATOR ASSEMBLY
24	<i>Call factory</i>	ENDCOVER PISTON
25	<i>Call factory</i>	PISTON SPRING
26	<i>Call factory</i>	ENDCOVER KITS
28	<i>Call factory</i>	BOLT SET KIT
29	<i>Call factory</i>	SHAFT KIT
30	<i>Call factory</i>	KEY KIT
31	<i>Call factory</i>	BOLT KIT
32	<i>Call factory</i>	WASHER KIT
33	<i>Call factory</i>	SPACER
34	<i>Call factory</i>	FRONT THRUST WASHER
35	<i>Call factory</i>	FRONT THRUST BEARING

05006695 MOTOR, HYD, WHITE, 63.9CI, 4B 100PSI SENSOR, 14T SPLINE, .0625" ORB



SPEED SENSOR

## MOTOR ASSEMBLY PARTS LIST

Item	Part Number	Description
1	Seal Kit 05006674	DUST SEAL
2		METAL BACKUP SHIM
3		TEFLON BACKUP SEAL
4		SAHFT SEAL
5		PILOT RING SEAL
6		BODY SEAL (3)
7		COMMUTATOR SEAL
8		TEFLON BACKUP SEAL
9		O-RING SEAL
10	<i>Call factory</i>	PILOT RING BOLTS
11	<i>Call factory</i>	PILOT RING
12	<i>Call factory</i>	FRONT HOUSING BEARING
13	05006232	BEARING SPACER
14	<i>Call factory</i>	RETAINER WASHER
15	<i>Call factory</i>	SNAP RING
16	<i>Call factory</i>	THRUST WASHER
17	<i>Call factory</i>	THRUST BEARING
18	<i>Call factory</i>	REAR HOUSING BEARING
19	<i>Call factory</i>	HOUSING
20	<i>Call factory</i>	DRIVE LINK KIT
21	<i>Call factory</i>	STANDARD ROTOR KIT
22	<i>Call factory</i>	MANIFOLD
23	<i>Call factory</i>	COMMUTATOR ASSEMBLY
24	<i>Call factory</i>	ENDCOVER PISTON
25	<i>Call factory</i>	PISTON SPRING
26	<i>Call factory</i>	ENDCOVER KITS
28	<i>Call factory</i>	BOLT SET KIT
29	05006714	SHAFT KIT
30	<i>Call factory</i>	KEY KIT
31	<i>Call factory</i>	BOLT KIT
32	<i>Call factory</i>	WASHER KIT
33	<i>Call factory</i>	SPACER
34	<i>Call factory</i>	FRONT THRUST WASHER
35	<i>Call factory</i>	FRONT THRUST BEARING

## SPEED SENSOR KIT

Item	Qty	Part Number	Description
1	1	05006560	Dust Seal
2	2	05006561	Sensor Attachment Screw
3	1	05006600	Sensor Magnet
4	1	05006418	4-Hole Sensor Flange
5	1	05006601	4-Hole Sensor Flange Seal
6	1	05006629	Speed Sensor ONLY - 100 Pulse

## HOW TO ORDER PARTS

To order or inquire about replacement parts, please contact the **distributor** or **store** that the product was purchased through. To speed the information flow, please have the following information ready:

- Model Number
- Serial Number
- Part Number and/or description as per the parts manual
- Quantity needed

For further information about **Monroe Truck Equipment** replacement parts, please call 800-880-0109 and ask for **Snow & Ice Parts Sales**.

## RETURN POLICY

Merchandise returned to **Monroe Truck Equipment** must have a Returned Goods Authorization (RGA) form filled out completely and signed by authorized personnel. To get your RGA form, call 800-880-0109. For whole goods, ask for **Snow & Ice Sales**. For replacement parts, ask for **Snow & Ice Parts Sales**. All returned items are subject to a 15% restocking fee and must be sent freight prepaid!

## MONROE TRUCK EQUIPMENT, INC. WARRANTY SNOW & ICE CONTROL PRODUCTS

**Monroe Truck Equipment, Inc.** warrants to the original purchaser, that if any part of the product proves to be defective in workmanship or material within **ONE YEAR** of the original installation, and is returned to us within 30 days of the discovered defect, we will (at our option) repair or replace the defective part. This warranty does not apply to damage resulting from misuse, neglect, accident, improper installation, normal wear items or lack of maintenance. This warranty is exclusive and supersedes all other warranties, whether expressed or implied. **Monroe Truck Equipment, Inc.** neither assumes, nor authorizes anyone to assume for it, any other obligation or liability in connection with this warranty and will not be liable for consequential damages.

All engines, pumps, motors, cylinders and valves are warranted by their manufacturer and not by **Monroe Truck Equipment, Inc.**. The manufacturer's warranty will apply to these parts. Electrical and hydraulic components are not to be disassembled without the express written permission of Monroe Truck Equipment. Use of replacement parts other than original equipment voids this warranty.

All defective parts returned must be accompanied by the model number, serial number, date installed, date of defect, description of defect, and the name of the distributor from whom it was purchased. All warranty claims must have prior written approval from **Monroe Truck Equipment, Inc.**

***Please return the warranty registration card that accompanies this manual to confirm receipt of this parts catalog and acknowledge the information contained within. Failure to return the attached card may result in a voided warranty.***



1051 West 7<sup>th</sup> Street  
Monroe, WI 53566  
608-328-8127 ~ Fax: 608-328-4278

## **Warranty Policy**

### **Uninstalled Parts and Equipment Provided by Monroe Truck Equipment**

Monroe Truck Equipment will provide the following limited warranty for a period of one year to the original purchaser of all uninstalled goods provided by Monroe Truck Equipment:

**LIMITED WARRANTY:** All goods provided by Monroe Truck Equipment (MTE) will be free from defects in material and workmanship for a period of one year from the date of purchase by the original purchaser. This limited warranty shall be the sole and exclusive remedy for any such product found to be defective. This limited warranty supercedes all previous warranties and is exclusive and in lieu of all other warranties, whether expressed or implied.

This limited warranty applies only to parts or accessories manufactured by MTE and/or provided by same. Except with respect to title, this limited warranty does not pertain to parts or accessories not manufactured and/or provided by MTE, regardless of whether such parts or accessories were selected and/or recommended by MTE. MTE will, as a service to the buyer, pass on any warranties received from the original manufacturer of MTE provided parts and/or accessories.

MTE will not under any circumstances be liable for any incidental or consequential damages whether in tort, contract, or otherwise, for any bodily injury, death, property damage, loss of use, or loss of income resulting from or in any way arising out of any goods provided by MTE, or their sale, use, or manufacture.

Any warranty claim deemed to be arising from the result of misuse, abuse, neglect, accident, improper installation, lack of maintenance, act of war (whether declared or otherwise), or act of God will be denied. Any repair or modification by the buyer or any third party, without the prior written consent of MTE, will void any possible warranty compensation. Any damage deemed to be the result of abnormal operation will not be compensated by this warranty.

Normal or special maintenance items such as fuels, fluids, tires, belts, hoses, filters, air cleaners, light bulbs, and any other items subject to normal wear and tear that are supplied in connection with goods provided by MTE are not allowed under this warranty.

All engines, pumps, cylinders, valves, and motors are warranted by their manufacturer and not by Monroe Truck Equipment. The manufacturer's warranty will apply to these parts. Electrical and hydraulic components are not to be disassembled without the express written consent of MTE. Any disassembly of MTE provided components without prior authorization will void the applicable warranty.

Monroe Truck Equipment shall be the sole and final determining authority as it applies to the administration of this warranty policy. Purchaser acknowledges receipt of Monroe Truck Equipment Warranty Policy and agrees to be bound by same.



**GLOBAL SOLUTIONS**  
ARMORED VEHICLES ~ SPORT TRUCK CONVERSIONS  
MUNICIPAL SNOW & ICE CONTROL ~ FIRE APPARATUS  
PICKUP TRUCK ACCESSORIES ~ TRUCK EQUIPMENT/MODIFICATIONS





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Any and all warranty claims must be forwarded to MTE within 10 days of defect discovery. A copy of the original Monroe Truck Equipment invoice as well as the manufacturer's model number, serial number, and date of installation must accompany all correspondence regarding said claims. MTE will, at their option, choose whether to repair or replace the defective part unless otherwise specified by the original manufacturer of said part.

### **Procedures for Warranty Claims Notification**

For submission of any warranty claim please contact Monroe Truck Equipment – Warranty Department at 800-356-8134

The following documentation will be needed when you call for initial warranty authorization:

1. A copy of the original MTE invoice.
2. Make, Model, and VIN or Serial Number of the equipment involved.
3. Part number and serial number of the part in question.
4. A complete description of the problem.

The following must accompany any claim submitted to Monroe Truck Equipment:

1. Documented photographs of any physical damage.
2. Inspection notes by MTE personnel or MTE authorized 3<sup>rd</sup> party.
3. Authorization number issued by Monroe Truck Equipment – Warranty Department.

**Defective parts must be returned to Monroe Truck Equipment (freight prepaid) within 30 days of issuance of Authorization Number.**

**Monroe Truck Equipment reserves the right to void any warranty for failure to comply with Monroe Truck Equipment Warranty Policy.**

**This policy is effective October 11, 2012**





