

PB-SSM



SINGLE SCREW FORMULA MIXER

F425 • F510

Owner/Operator's Manual
&
Parts Book

Starting 2017 Model Year



7/17/2025



1.0 IMPORTANT INFORMATION

The mixer serial number plate is located on the front left hand side of the mixing tub.

The trailer serial number plate is located on the left hand side of the trailer hitch.

Please enter the model, serial number and additional information in the space provided for future reference.



Model No. _____

Mixer Serial No. _____

Trailer Serial No. _____

Date of Purchase _____

Dealership _____

Dealership Phone No. _____



Always use your serial number when requesting information or when ordering parts.

HOW TO READ THE SERIAL NUMBER

MIXER

EXAMPLE: 17VS0425201

Model Year / Vertical Mixer / Model / Sequence Of Build



17



VS



0425



201

TRAILER

EXAMPLE: VST17201

Vertical Mixer Trailer / Model Year / Sequence Of Build



VST



17



201

Meyer Manufacturing Corporation
674 W. Business Cty Rd A
Dorchester, WI 54425
Phone: 1-800-325-9103
Fax: 715-654-5513
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Website: www.meyermfg.com



2.0 PRE-DELIVERY & DELIVERY CHECK LIST

MEYER MANUFACTURING CORPORATION

Phone: 715-654-5132 • Toll-Free: 1-800-325-9103 • P.O. Box 405 • Dorchester, WI 54425

This Pre-Delivery & Delivery Check List must be gone through by the Selling Party and the Customer to validate the Owner's Registration Form.

PRE-DELIVERY CHECK LIST

After the new Meyer Mixer has been completely set-up, check to be certain it is in correct running order before delivering it to the customer.

The following is a list of points to inspect:

Check off each item as you have made the proper adjustments and found the item operating satisfactorily. Any adjustments made, MUST be according to specifications defined in this manual.

- ☐ All shields and guards are in place and securely fastened.
- ☐ All PTO shields turn freely.
- ☐ All bolts and other fasteners are secure and tight.
- ☐ All mechanisms operate trouble free.
- ☐ All grease fittings have been lubricated, gear boxes filled to proper levels and all roller chains are oiled. Refer to 8.2 LUBRICATION.
- ☐ Conveyor Belt or Chain are at proper tension. Refer to 8.3 ADJUSTMENTS.
- ☐ All stop/tail/turn lights work properly.
- ☐ All decals are in place and legible.

DELIVERY CHECK LIST

The following check list is an important reminder of valuable information that **MUST** be passed on to the customer at the time the unit is delivered.

Check off each item as you explain it to the customer.

- ☐ Explain to the customer that pre-delivery check list was fully completed.
- ☐ Give customer the Owner & Operator's Manual. Instruct to read and completely understand its contents **BEFORE** attempting to operate the mixer.
- ☐ Explain and review with customer the new Meyer implement manufacturer's warranty.
- ☐ Show the customer where to find the serial number on the implement.
- ☐ Explain and review with the customer the 5.1 **SAFETY PRECAUTIONS**.
- ☐ Explain and review with customer the proper "Start-up and Operating Procedures" sections of this manual.
- ☐ Demonstrate the PTO Shaft Locking Device and proper PTO shaft storage. Also, demonstrate proper hydraulic hose storage and tip holder used to keep system clean from contaminants.
- ☐ Explain that regular lubrication and proper adjustments are required for continued proper operation and long life of the mixer. Review with the customer the 8.2 LUBRICATION and 8.3 ADJUSTMENTS sections of this manual.
- ☐ Explain the importance of conveyor chain or belt tension, and the need to watch and tighten during the break-in period.
- ☐ Fully complete this PRE-DELIVERY & DELIVERY CHECK LIST with the customer.



3.0 INTRODUCTION

Congratulations on your purchase of a new Meyer farm equipment product. Undoubtedly you have given much consideration to your purchase and we're proud that you have selected Meyer. Pride in craftsmanship, engineering and customer service have made Meyer products the finest in the farm equipment industry today.

There is no substitute for quality. That is why thousands of people like you have purchased Meyer farm equipment. They felt it was the best equipment to serve their farming needs, now and in years to come. We ask that you follow our policy of "safety first", and we strongly suggest that you read through the "Owner / Operator's Manual & Parts Book" before operating your Meyer farm equipment. Meyer Manufacturing Corporation wants to thank you for not compromising quality. We are determined to offer excellence in customer service as well as provide you with the very best value for your dollar.

Sincerely,

All Employees of

MEYER MANUFACTURING CORPORATION

When the PTO is referred to, it means power take-off from the tractor.

The formula mixer may be referred to as mixer, implement, equipment or machine in this manual.



IMPORTANT: You are urged to study this manual and follow the instructions carefully. Your efforts will be repaid in better operation and service as well as a savings in time and repair expense. Failure to read this manual and understand the machine could lead to serious injury. If you do not understand instructions in this manual, contact either your dealer or Meyer Manufacturing Corp. at Dorchester, WI 54425.



WARRANTY: At the front of this manual is an "Owner's Registration Form". Be sure your dealer has completed this form and promptly forwarded a copy to Meyer Manufacturing to validate the manufacturer's warranty. The product model and serial number are recorded on this form and on the inside of the front cover for proper identification of your Meyer implement by your dealer and the manufacturer when ordering repair parts. The mixer serial number plate is located on the front left hand side of the mixing tub. The trailer serial number plate is located on the left hand side of the hitch.



REPAIR PARTS: At the back of this manual is the repair parts section. All replacement parts are to be obtained from or ordered through your Meyer dealership. When ordering repair parts, refer to the parts section and give complete information including quantity, correct part number, detailed description and even model number and serial number of the implements which needs repair parts.

Manufacturer's Statement: Meyer Manufacturing Corporation reserves the right to make improvements in design, or changes in specifications at any time, without incurring any obligation to owners of units previously sold. This supersedes all previous published instructions.



4.0 MANUFACTURER'S WARRANTY

04/2014

MEYER FORMULA MIXER

- I The "Owner's Registration Form" must be completed in full and promptly returned to Meyer Mfg. Corp. for this warranty to become both valid and effective. All warranties on New Meyer Mixers shall apply only to the original retail customer from an authorized Meyer Mfg. Corp. dealership.
- II This warranty shall not apply to any Meyer Mixer which has been subjected to misuse, negligence, alteration, accident, incorrect operating procedures, has been used for an application not designed for or pre-authorized by Meyer in writing, has had the serial numbers altered, or which shall have been repaired with parts other than those obtained through Meyer Mfg. Corp. Meyer is not responsible for the following: Depreciation or damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow the operator's manual recommendations or normal maintenance parts and service. Meyer is not responsible for rental of replacement equipment during warranty repairs, damage to a power unit (including but not limited to a truck or tractor), loss of earnings due to equipment down time, or damage to equipment while in transit to or from the factory or dealer.
- III Meyer Mfg. Corp. warrants New Meyer Mixer to be free from defects in material and workmanship under recommended use and maintenance service, as stated in the operator's and parts manuals, as follows:
 - A. Meyer Mfg. Corp. will repair or replace F.O.B. Dorchester, WI, as Meyer Mfg. Corp. elects, any part of a new Meyer Mixer which is defective in material or workmanship:
 - i Without charge for either parts or labor during the first (1) year from purchase date to the original retail customer.
 - B. In addition to the above basic warranty, Meyer Mfg. Corp. will repair or replace F.O.B. Dorchester, WI as Meyer Mfg. Corp. elects:
 - i Any part of the following which is defective in material or workmanship (not neglect to recommended use and service) with a "pro-rated" charge for parts only (not labor) during the stated time period from date of purchase to the original retail customer. 1st year 100%, 2nd year 100%, 3rd year 50%, 4th year 25%, 5th year 10%
 - a. The Formula Mixer Planetary Gearbox. Meyer Part #'s 119-1680-24.18-1, 119-21-25.67-1.
- IV COMMERCIAL USE: Coverage as in paragraph III.A.i. only, except warranty coverage is for (90) days for parts and labor to the original commercial retail customer.
- V Repairs eligible for labor warranty must be made by Meyer Mfg. Corp. or an authorized Meyer dealership. The original retail customer is responsible for any service call and/or transportation of the mixer to the dealership or the factory for warranty service.
- VI Except as stated above, Meyer Mfg. Corp. shall not be liable for injuries or damages of any kind or nature, direct, consequential, or contingent, to persons or property. This warranty does not extend to loss of crop or for any other reasons.
- VII No person is authorized to give any other warranties or to assume any other obligation on Meyer Mfg. Corp.'s behalf unless made or assumed in writing by Meyer Mfg. Corp. This warranty is the sole and exclusive warranty which is applicable in connection with the manufacture and sale of this product and Meyer Mfg. Corp.'s responsibility is limited accordingly.

Purchased Product Warranty:

This warranty does not apply to component parts not manufactured by Meyer such as but not limited to wheels, tires, PTO shafts, clutches, hydraulic cylinders, scales, etc.



TABLE OF CONTENTS

1.0	IMPORTANT INFORMATION	2
2.0	PRE-DELIVERY & DELIVERY CHECK LIST	3
3.0	INTRODUCTION	5
4.0	MANUFACTURER'S WARRANTY	7
5.0	SAFETY	13
5.1	SAFETY PRECAUTIONS	14
5.2	SAFETY SIGNS	16
5.3	SHUTOFF & LOCKOUT POWER	22
5.3.1	SHUTOFF & LOCKOUT POWER RECOMMENDATIONS	22
6.0	PRE-OPERATION	23
6.1	STATIC INSPECTION	23
6.2	LIGHT HOOK-UP	24
6.3	HYDRAULIC HOOK-UP	24
6.4	PTO DRIVELINE OPTION	25
6.5	TRACTOR DRAWBAR SETUP	26
6.6	HITCHING TO TRACTOR	27
6.6.1	JACK STORAGE	27
6.7	START-UP AND SHUT-DOWN	28
6.7.1	START-UP	28
6.7.2	SHUT-DOWN	28
6.8	TRANSPORTING	29
6.8.1	SAFETY CHAIN	30
6.8.2	TRACTOR TOWING SIZE REQUIREMENTS	31
6.9	OPTIONAL EQUIPMENT	31
7.0	OPERATION	33
7.1	GENERAL	33
7.2	OPERATIONAL CHECKS	34
7.2.1	MATERIAL	35
7.2.2	SHEAR BOLT PTO, PRIMARY	35
7.3	LOADING	36
7.3.1	LOADING SEQUENCE	37
7.4	MIXING	38
7.4.1	MIXING TROUBLESHOOTING GUIDE	38
7.5	PLATFORM OPERATION	39
7.6	FOLDING LADDER	39
7.7	UNLOADING	40
7.8	UNHOOKING THE TRACTOR	41

TABLE OF CONTENTS

7.9	HAY STOP ADJUSTMENT	42
7.9.1	HAY STOP LOCK BOLT	42
8.0	MAINTENANCE	43
8.1	GENERAL	43
8.2	LUBRICATION	43
8.2.1	DAILY LUBRICATION	44
8.2.2	EVERY 8 HOURS.....	45
8.2.3	MONTHLY LUBRICATION	46
8.2.4	EVERY 40 HOURS.....	46
8.2.5	FIRST 50 HOURS	47
8.2.6	EVERY 250 HOURS.....	47
8.2.7	ANNUALLY.....	48
8.2.8	ANNUALLY OR EVERY 2000 HOURS (WHICHEVER IS FIRST)	49
8.2.9	GREASE HUBS PROCEDURE.....	49
8.2.10	GEARBOX OIL CHANGE PROCEDURES	49
8.2.10.1	PLANETARY GEARBOX.....	50
8.3	ADJUSTMENTS.....	51
8.3.1	SIDE DISCHARGE CONVEYOR	51
8.3.2	FRONT DISCHARGE CONVEYOR - CHAIN.....	51
8.3.3	BELT CONVEYOR TENSION	52
8.3.4	TRACKING	53
8.3.5	DRIVELINE ALIGNMENT.....	55
8.3.6	AUGER SCRAPER PLATE	55
8.3.7	KNIVES.....	55
8.3.7.1	KNIFE REMOVAL	55
8.3.7.2	ADDING KNIVES.....	56
8.3.7.3	KNIFE PLACEMENT.....	56
8.3.7.4	KNIFE POSITION	56
8.3.7.5	REPLACING DAMAGED OR WORN KNIVES	56
8.3.8	WHEEL BEARING PRELOAD.....	56
8.4	FASTENER TORQUE SPECIFICATIONS	58
8.4.1	GENERAL TORQUE SPECIFICATIONS	58
8.4.2	WHEEL TORQUE.....	60
8.4.3	HUB TORQUE.....	60
8.5	ELECTRICAL	60
8.5.1	DIGITAL SCALE INDICATOR	60
8.6	WHEELS AND TIRES	61
8.6.1	WHEEL INSTALLATION	61
8.6.2	TIRE INFLATION.....	61
8.6.3	IMPLEMENT TIRES	62

TABLE OF CONTENTS

8.7	STORING THE IMPLEMENT	63
8.8	RETURN THE IMPLEMENT TO SERVICE	63
8.9	MIXER TROUBLESHOOTING GUIDE	64
9.0	REPAIR PARTS	65
	ELECTRICAL LIGHTS.....	66
	WEIGH BAR WIRING DIAGRAM	68
	TRAILER.....	70
	75-0209 HUB ASSEMBLY.....	72
	MIXER BODY	74
	FRONT FLAT & INCLINE BASE BELT CONVEYOR.....	76
	FRONT FLAT & INCLINE BASE BELT CONVEYOR (CONT'D).....	78
	FRONT FLAT & INCLINE BASE BELT CONVEYOR (CONT'D).....	80
	FRONT FLAT BELT CONVEYOR HYDRAULIC SCHEMATIC	82
	FRONT INCLINE BELT CONVEYOR.....	84
	FRONT INCLINE BELT CONVEYOR (CONT'D).....	86
	FRONT LEFT INCLINE BELT CONVEYOR HYDRAULIC SCHEMATIC.....	88
	FRONT INCLINE BELT CONVEYOR STOP	90
	FRONT FLAT & INCLINE BASE CHAIN CONVEYOR ASSEMBLY	92
	FRONT FLAT & INCLINE BASE CHAIN CONVEYOR ASSEMBLY (CONT'D)	94
	FRONT FLAT & INCLINE BASE CHAIN CONVEYOR ASSEMBLY (CONT'D)	96
	FRONT FLAT CONVEYOR	98
	FRONT INCLINE CONVEYOR.....	98
	FRONT DISCHARGE INCLINE CHAIN CONVEYOR HYDRAULIC SCHEMATIC	100
	SIDE DISCHARGE BELT CONVEYOR	102
	SIDE DISCHARGE BELT CONVEYOR (CONT'D)	104
	SIDE DISCHARGE INCLINE BELT CONVEYOR HYDRAULIC SCHEMATIC	106
	SIDE DISCHARGE INCLINE CHAIN CONVEYOR HYDRAULIC SCHEMATIC	108
	DOOR	110
	DOOR HYDRAULIC SCHEMATIC	112
	LADDER	114
	VIEWING PLATFORM.....	116
	AUGER	118
	AUGER (CONT'D).....	120
	DRIVELINE.....	122
	1680 SERIES PLANETARY	124
	2100 SERIES PLANETARY	126
	PLANETARY OIL SYSTEM.....	128

TABLE OF CONTENTS

PTO DRIVE SHAFT	130
CV PTO DRIVE SHAFT (OPTIONAL)	131
UNIVERSAL JOINT	132
10.0 OPTIONAL PARTS	133
HAY RETAINING RING	134
8" CAPACITY EXTENSION	135
TIP OFF	136
REMOTE SCALE MOUNT	138
RUBBER SIDE DOOR CHUTE ASSEMBLY	140
CONVEYOR HANGING MAGNET & WEIGHT ASSEMBLY	142
11.0 SPECIFICATIONS.....	143
NOTES	146
12.0 MAINTENANCE RECORDS	147

5.0 SAFETY

The Meyer implement is manufactured with operator safety in mind. Located on the implement are various safety signs to aid in operation and warn of danger or caution areas. Pay close attention to all safety signs on the implement.

Carefully follow the operating and maintenance instructions in this manual and all applicable safety laws. Failure to follow all safety procedures may result in serious injury or death.

Before attempting to operate this implement, read and study the following safety information. In addition, make sure that every individual who operates or works with the implement, whether family member or employee, is familiar with these safety precautions.

Meyer Mfg. Corp. provides guards for exposed moving parts for the operator's protection; however, some areas cannot be guarded or shielded in order to assure proper operation. The operator's manual and safety signs on the implement itself warn you of dangers and must be read and observed closely!



Safety Alert Symbol

This symbol is used to call attention to instructions concerning personal safety. Be sure to observe and follow these instructions. Take time to be careful!



DANGER

The signal word **DANGER** on the machine and in the manual identifies a hazardous situation which, if not avoided, **WILL** result in death or serious injury.



WARNING

The signal word **WARNING** on the machine and in the manual indicates a potentially hazardous situation which, if not avoided, **COULD** result in serious injury or death.



CAUTION

The signal word **CAUTION** on the machine and in the manual indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury. It may also be used to alert against unsafe practices.

IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine.

Danger, Warning, Caution, and instructional decals and plates are placed on the equipment to protect anyone working on or around this machine, as well as the components of the machine. All personnel operating or maintaining this equipment must familiarize themselves with all Danger, Warning, Caution, and instructional decals and plates.

5.1 SAFETY PRECAUTIONS



All individuals who will operate this implement must read and completely understand this Owner / Operator's and Parts Manual. Operator must receive instructions before operating the machine. Untrained operators can cause injury or death.

- DO NOT allow anyone to operate, service, inspect or otherwise handle this equipment until all operators have read and understood all of the instructional materials in this Operator's And Parts Manual and have been properly trained in its intended usage.
- For an operator to be qualified, he or she must not use drugs or alcohol which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate a machine and the equipment.
- Make sure all personnel can READ and UNDERSTAND all safety signs.
- DO NOT allow minors (children) or inexperienced persons to operate this equipment.
- DO NOT operate until all shields and guards are in place and securely fastened.
- DO NOT step up on any part of the equipment that is not designated as a ladder or viewing platform at any time.
- DO NOT adjust, clean or lubricate while the equipment is in motion.
- Inspect when first delivered and regularly thereafter; that all connections and bolts are tight and secure before operating.
- Know how to stop operation of the equipment before starting it!
- Make certain everyone is clear of the equipment before applying power.
- Keep hands, feet and clothing away from moving parts. Loose or floppy clothing should not be worn by the operator.
- Observe all applicable traffic laws when transporting on public roadways (where legal to do so). Check local laws for all highway lighting and marking requirements.
- Shut off and lock out power before adjusting, servicing, maintaining or clearing an obstruction from this machine. Refer to 5.3 SHUTOFF & LOCKOUT POWER.
- Always enter curves or drive up or down hills at a low speed and at a gradual steering angle.
- Never allow riders on either tractor / truck or equipment.
- Keep tractor / truck in a lower gear at all times when traveling down steep grades.
- Stay away from overhead power lines. Electrocution can occur without direct contact.
- Use only properly rated undercarriage and tires.

Safety Precautions For Tractor Towed Units:

- Do not exceed 20 mph (32 kph). Reduce speed on rough roads and surfaces.
- Always install a SMV emblem on pull-type equipment when transporting on roadways and keep clean and bright.
- Always yield to oncoming traffic in all situations and move to the side of the road so any following traffic may pass.

Safety Precautions For Truck Mounted Units:

- Comply with state and local laws governing highway safety and movement of machinery on roadways.

Safety Precautions For Hydraulic System:

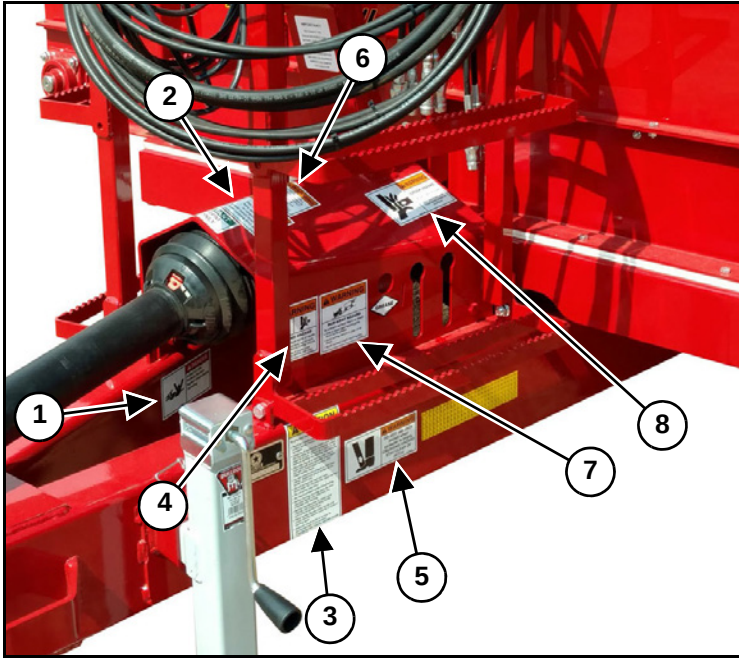
- Check hydraulic tubes, hoses and fittings for damage and leakage. Never use hands to check for leaks. Hydraulic tubes and hoses must be properly routed and have adequate support and secure clamps. Tighten or replace any parts that show leakage.
- Always clean fluid spills. Do not use gasoline or diesel fuel for cleaning parts. Use commercial nonflammable solvents.

5.2 SAFETY SIGNS



Read all safety signs on the implement and in this manual. Keep all safety signs clean and replace any damaged or missing safety signs before operating the equipment. Do not remove any safety signs. Safety signs are for operator protection and information.

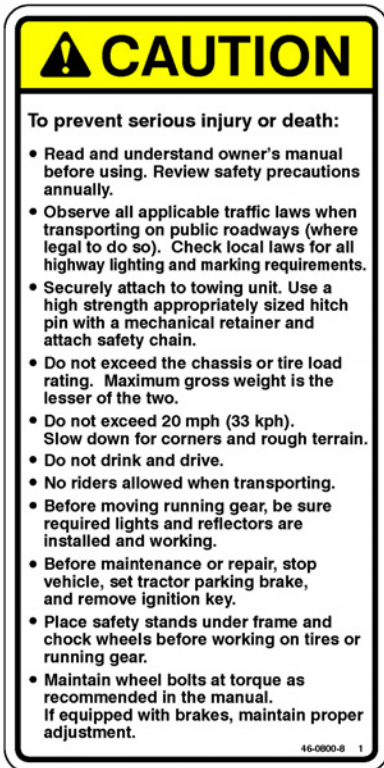
FRONT OF IMPLEMENT



PART NO. 46-3600-2
(Located On Trailer Frame Underneath Housing)



PART NO. 46-3600-9



PART NO. 46-0800-8



PART NO. 46-0800-6



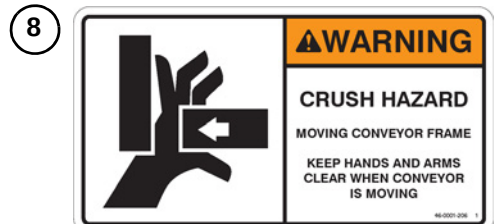
PART NO. 46-3600-6



PART NO. 46-0004-2

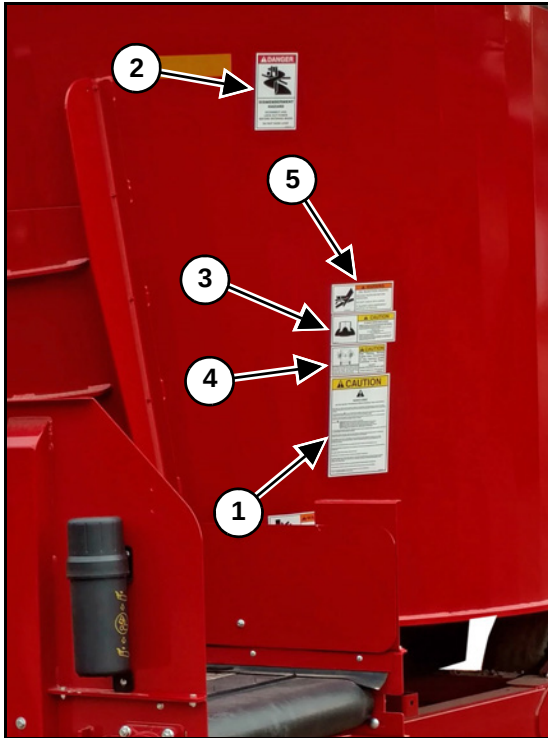


PART NO. 46-0800-7

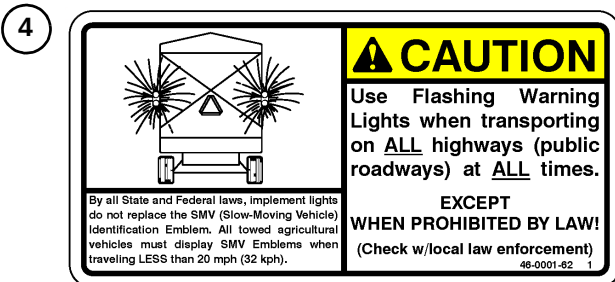


PART NO. 46-0001-206

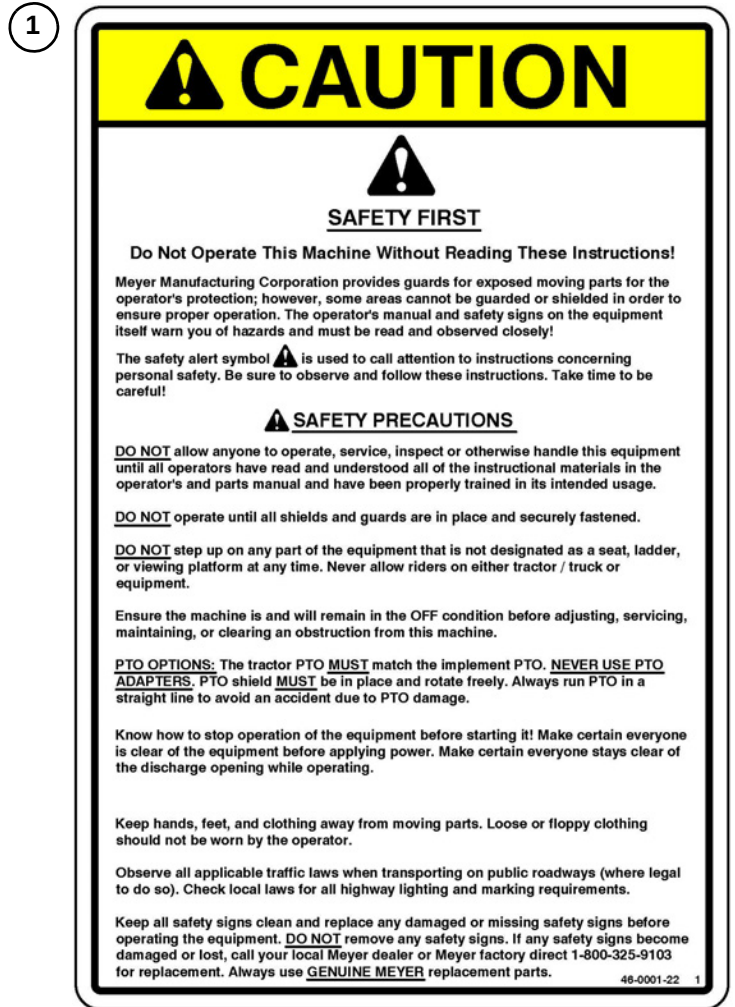
FRONT OF IMPLEMENT



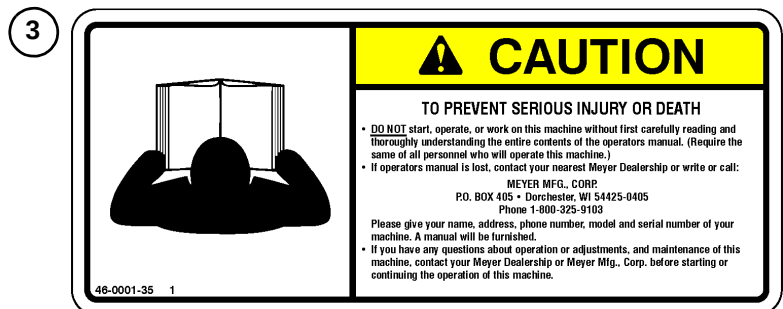
PART NO. 46-0001-213



PART NO. 46-0001-62



PART NO. 46-0001-22

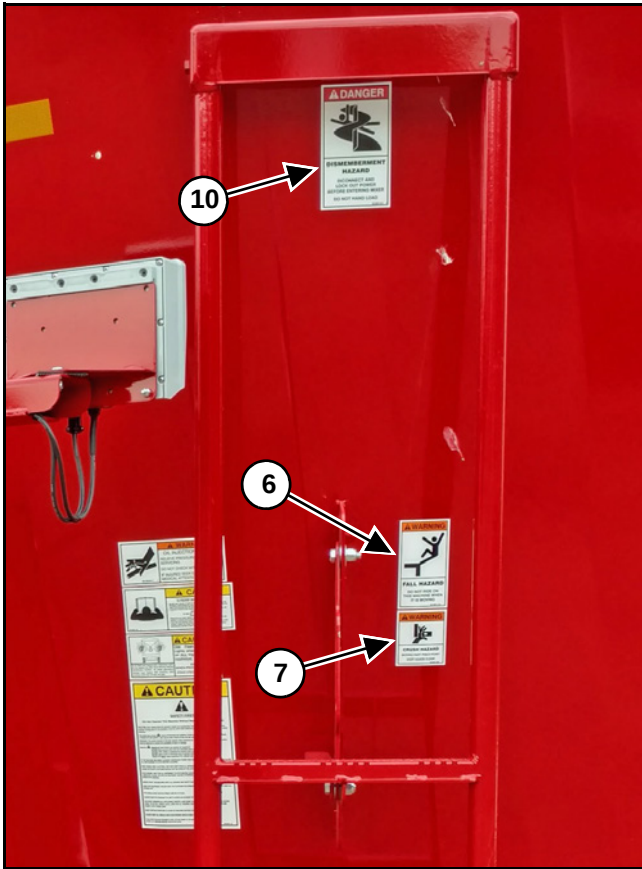


PART NO. 46-0001-35



PART NO. 46-8500-7

FRONT OF IMPLEMENT



1



PART NO. 46-0001-210

8



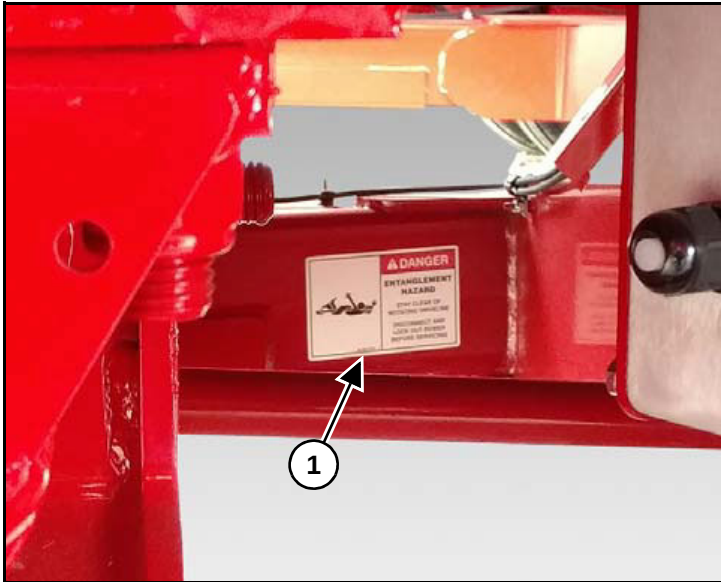
PART NO. 46-0001-205

7



PART NO. 46-0001-213

UNDER IMPLEMENT



PART NO. 46-0001-212



PART NO. 46-0001-211



PART NO. 46-0001-208



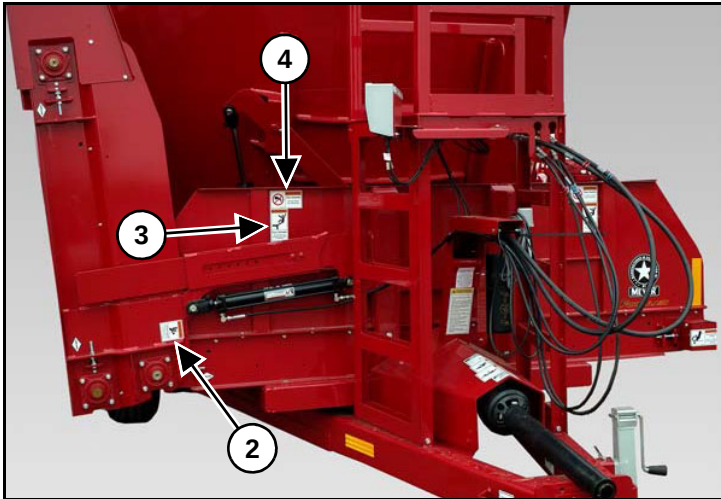
PART NO. 46-8500-7

RIGHT SIDE OF IMPLEMENT

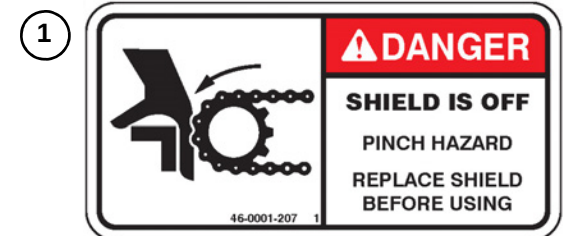


PART NO. 46-0001-213

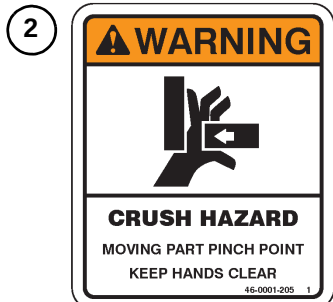
RIGHT SIDE OF IMPLEMENT



PART NO. 46-0001-4



PART NO. 46-0001-207
(Located Under Shield - Not Shown)



PART NO. 46-0001-205

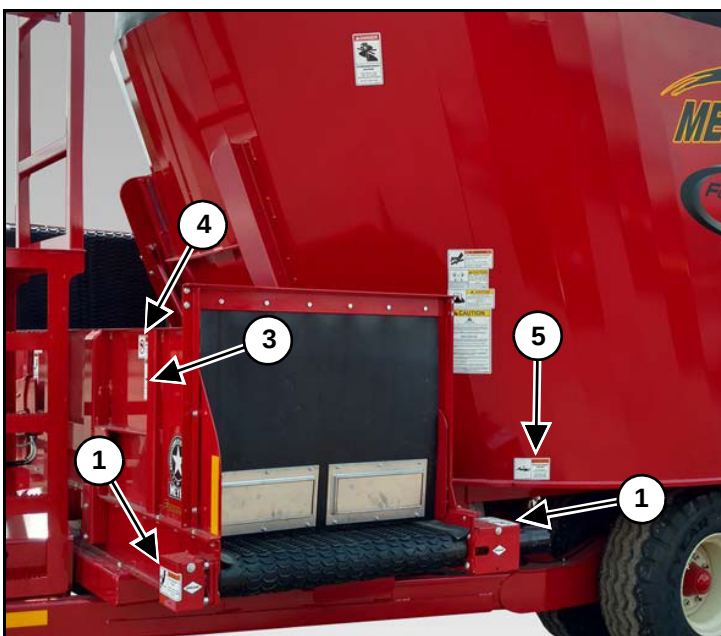


PART NO. 46-0001-210



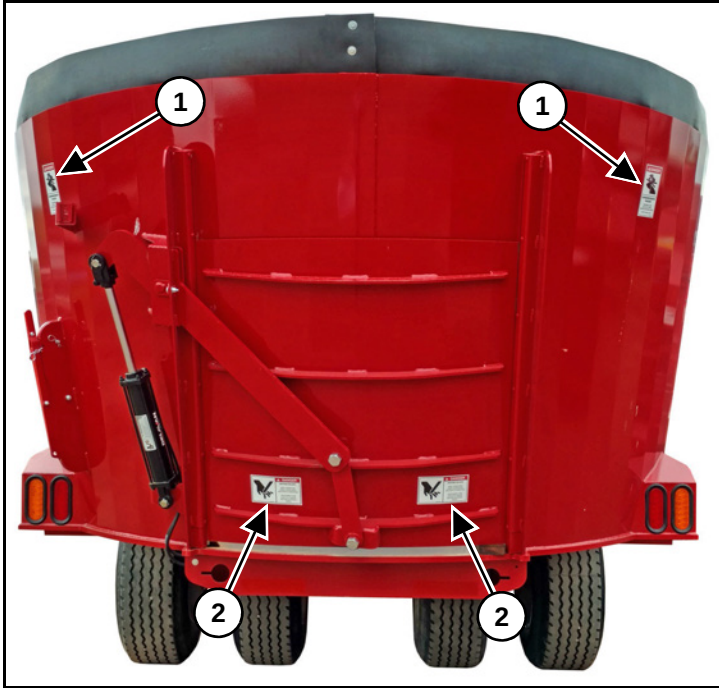
PART NO. 46-0001-209

LEFT SIDE OF IMPLEMENT



PART NO. 46-0001-211

BACK OF IMPLEMENT

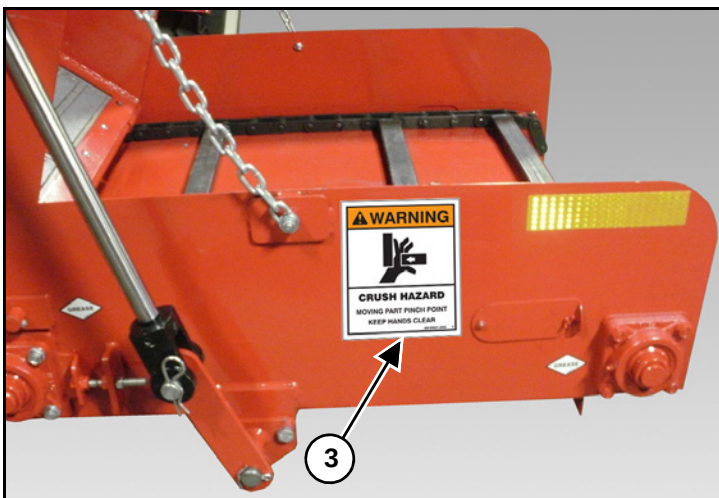


PART NO. 46-0001-213



PART NO. 46-0001-208

SIDE DOOR CONVEYOR (OPTION)



PART NO. 46-0001-205

5.3 SHUTOFF & LOCKOUT POWER



CAUTION

Any individual that will be adjusting, servicing, maintaining, or clearing an obstruction from this machine needs to ensure that this machine stays safely OFF until the adjustment, service, or maintenance has been completed, or when the obstruction has been cleared, and that all guards, shields, and covers have been restored to their original position. The safety of all individuals working on or around this machine, including family members, are affected. The following procedure will be referred to throughout this manual, so be familiar with the following steps.

5.3.1 Shutoff & Lockout Power Recommendations

1. Think, Plan and Check

- a. **THINK** through the entire procedure and identify all the steps that are required.
- b. **PLAN** what personnel will be involved, what needs to be shut down, what guards/shields need to be removed, and how the equipment will be restarted.
- c. **CHECK** the machine over to verify all power sources and stored energy have been identified including engines, hydraulic and pneumatic systems, springs and accumulators, and suspended loads.

2. **Communicate** - Let everyone involved, including those working on or around this machine, that work is being done which involves keeping this machine safely “OFF”.

3. **Power Sources**

- a. **LOCKOUT** - Shut off engines and take the key, or physically lock the start/on switch or control. Disconnect any power sources which are meant to be disconnected (i.e. electrical, hydraulic, and PTO of pull-type units).
- b. **TAGOUT** - Place a tag on the machine noting the reason for the power source being tagged out and what work is being done. This is particularly important if the power source is not within your sight and/or will need to be isolated for a longer period of time.

4. **Stored Energy** - Neutralize all stored energy from its power source. Ensure that this machine is level, set the parking brake, and chock the wheels. Disconnect electricity, block movable parts, release or block spring energy, release pressure from hydraulic and pneumatic lines, and lower suspended parts to a resting position.

5. **Test** - Do a complete test and personally double check all of the above steps to verify that all of the power sources are actually disconnected and locked out.

6. **Restore Power** - When the work has been completed, follow the same basic procedures, ensuring that all individuals working on or around this machine are safely clear of the machine before locks and tags are removed and power is restored.

IMPORTANT

It is important that everyone who works on this equipment is properly trained to help ensure that they are familiar with this procedure and that they follow the steps outlined above.

This manual will remind you when to SHUTOFF & LOCKOUT POWER.

6.0 PRE-OPERATION



Always keep all shields and guards in place and securely fastened.
Keep hands, feet and clothing away from moving components.



DO NOT allow anyone to operate, service, inspect or otherwise handle this implement until all operators have read and understand all of the instructional materials in this Owner / Operator's and Parts Manual and have been properly trained in its intended usage.

Verify that the implement is securely hitched to the tractor/truck.

Verify that all electrical/hydraulic connections and bolts/hardware are tight and securely fastened before operating the implement.

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Tools are being used.

6.1 STATIC INSPECTION



Hydraulic fluid escaping under pressure can have sufficient force to cause injury. Keep all hoses and connections in good serviceable condition.

Before operating the mixer for the first time and each time thereafter, check the following items:

1. Check that all safety signs are in good and legible condition.
2. Inspect the mixer for proper adjustments. Refer to Section 8.3 ADJUSTMENTS.
3. Check that all lubrication has been completed. Refer to Section 8.2 LUBRICATION.
4. Make sure that all guards and shields are in place, secured and functioning as designed.
5. Check condition of all hydraulic components for leaks and electrical cords and cables for wear. Repair or replace as required.
6. Check the planetary gearbox and stop & shift gearbox reservoir (If Equipped) for proper oil level. Check power shift transmission sight glass (If Equipped) for proper oil level. Refer to Section 8.2 LUBRICATION.
7. Check for and remove any foreign objects in the mixing chamber and discharge opening.
8. Be sure that there are no tools laying on or in the mixer.
9. Verify that all electrical and hydraulic connections are tight and secure before operating.
10. Check that all hardware is in place and is tight.
11. Watch for any worn or cracked welds. If found, have qualified personnel repair immediately or replacement is necessary.
12. Check all bearings. Replace as needed.
13. Inspect any wear items. i.e.: Knives, scrapers, kicker wear plate. Replace as required.
14. Inspect the tires for excessive wear or damage and inflate to the recommended pressure. Refer to Section 8.6 WHEELS AND TIRES.
15. Inspect the condition of axles, o-beams, spindles, and safety lighting. Repair or replace as required.

6.2 LIGHT HOOK-UP

Note: *The lighting system provided is intended for being transported by an agricultural tractor.*

Ensure that lights and indicators are clean and in good working order. When attaching to a towing vehicle other than a tractor always check lighting for proper operation as wiring may vary. Connect to the standardized 7-pin socket located at the back of the tractor.

Color	Function	SAE Terminal	SAE Connector
White	Ground	1	 Viewed From Back
	Not Used	2	
Yellow	Left Turn & Hazard	3	
	Not Used	4	
Green	Right Turn & Hazard	5	
Brown	Tail Lights	6	
	Auxiliary Power	7	

Note: *The brake wire should only be connected to the #4 terminal if the #4 terminal on the tractor is confirmed to be a brake light terminal. If the tractor does not have a brake light terminal, cap / seal off the end of the brake wire of the implement (secure to other wires).*

6.3 HYDRAULIC HOOK-UP



WARNING

Hydraulic fluid escaping under pressure can have sufficient force to cause injury. Keep all hoses and connections in good serviceable condition.

Whenever working on any part of the hydraulics, safely relieve hydraulic pressure before starting.

IMPORTANT

Do not exceed maximum PSI or a motor failure could result.

Pull Type: Requires 25 GPM @ 3000 PSI.

Call the factory if additional information is needed.

Note: *The PTO horsepower and/or hydraulic requirements may not reflect adequate tractor size for towing the machine.*

6.4 PTO DRIVELINE OPTION



Do not operate without PTO guard on implement and tractor. Maintain PTO drive shaft guard in good operating condition. Replace them if damaged and not turning freely.

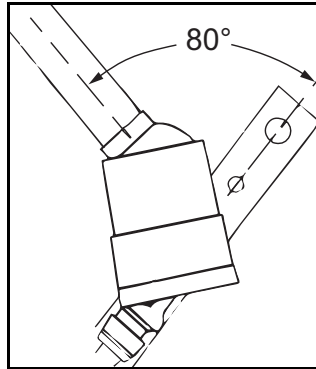


Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

The tractor half of the PTO drive shaft assembly must be locked securely to the tractor output shaft and the implement half of the PTO drive shaft assembly must be locked securely to the implement driveline.

See the PTO Installation, Service, and Safety Instruction Manual for additional PTO details. For a replacement manual, call the factory at 1-800-325-9103.

See the ADMA Safety Manual for further safety situations and precautions, ensure all operators become familiar with it. For a replacement manual, call the factory at 1-800-325-9103.

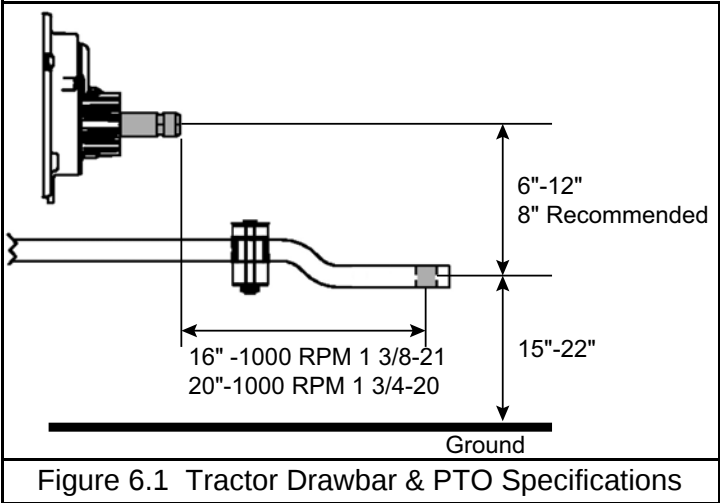


Do not exceed the maximum 80° turning angle on the constant velocity PTO driveline. Exceeding the turning angle will damage the constant velocity “center housing” and exerts excessive pressures on the PTO input center shaft and related bearings.

6.5 TRACTOR DRAWBAR SETUP

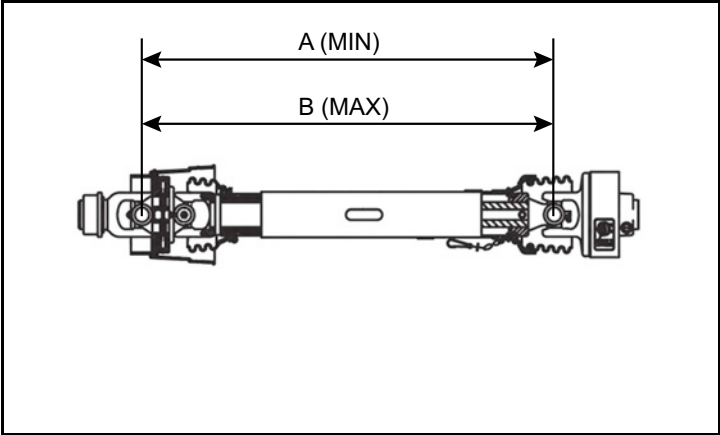
Do not operate 1000 RPM implements at 540 RPM. No PTO adapter should be used to alter speed or geometry.

Set the tractor drawbar to conform to the standard dimensions as shown. An improperly located hitch point may cause damage to the universal joints of the PTO drive shaft. This will ensure that the PTO drive shaft will not be over extended.



An improperly positioned hitch point may cause damage to the universal joints of the PTO drive shaft. Conforming to the standard 16" or 20" drawbar & PTO relationship will ensure that the PTO drive shaft will not become over-extended.

With initial hook-up to your implement test PTO travel by turning equipment in both directions observing the minimum (A) and maximum (B) travel dimensions.



PTO PART NUMBER	A	B
118-VM-0013-55	33.50"	47.13"
118-VM-0030-55	42.50"	56.25"

6.6 HITCHING TO TRACTOR



WARNING

Do not allow anyone to stand between the tongue or hitch and the tractor when backing up to the implement.

Before hitching to the tractor, make sure that there is sufficient ballast on the front axle of the tractor.

Depending on conditions, the ballast weight needs to be adjusted to optimize tractor drive. The front axle load must never, under any circumstances, be less than 20% of the tractor's unladen weight.

Move to the operator's position, start the engine and release the parking brake.

Move the tractor in front of the mixer. Slowly move the tractor backwards towards the mixer and align the drawbar with the implement's hitch.

Note: *Lower or raise the mixer jack to properly align the drawbar and hitch.*

Fasten the forage box hitch to the tractor drawbar with a properly sized hitch pin with safety retainer. (Reference ANSI/ASABE AD6489-3 Agricultural vehicles - Mechanical connections between towed and towing vehicles - Part 3: Tractor drawbar.) (See your Trailer / Chassis manual for further details.)

Before operation and after hitching the tractor to the implement, connect the hydraulic hoses and light cord to the tractor. Connect any optional equipment as needed.

6.6.1 Jack Storage

After hitching the mixer or the tractor.

Using the handle, raise the jack off the ground and remove the pin. Move the jack (Item 1) to the storage mount located on the back left hand side of the mixing tub. Reinstall the pin (Item 2) to lock the jack into the transport position.

Note: *Keeping jack stored in proper position will keep it from getting damaged during transportation.*



Figure 6.2 Jack Storage

6.7 START-UP AND SHUT-DOWN



Disengage electric/ hydraulic power, engage the machine's parking brake, stop the engine and make sure all moving components are completely stopped before connecting, disconnecting, adjusting or cleaning this equipment.

Always keep all shields and guards in place and securely fastened.

Keep hands, feet and clothing away from moving components.



Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

DO NOT allow anyone to operate, service, inspect or otherwise handle this implement until all operators have read and understand all of the instructional materials in this Owner / Operator's and Parts Manual and have been properly trained in its intended usage.

Before operating the implement, look in all directions to ensure there are no bystanders, especially small children, in the work area.

6.7.1 Start-Up

1. Be sure there is no one inside the mixer and the mixer is empty.
2. Enter the tractor and start the engine.
3. Set the parking brake.
4. Check to see that the discharge door is closed.
5. Slowly engage the PTO and operate at idle speed.
6. Bring PTO RPM up to its rated RPM.

6.7.2 Shut-Down

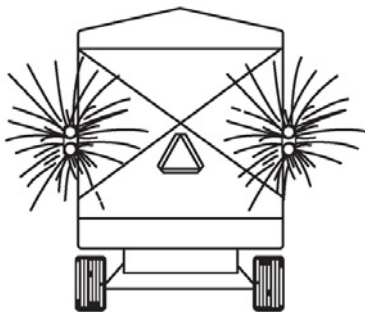
1. Disengage the PTO.
2. Turn off conveyor, if equipped.
3. Fully lower all doors.
4. Raise slide trays or conveyors, if equipped.
5. Park the mixer on a flat, level surface.
6. Engage the parking brake, stop the engine and exit the tractor.

6.8 TRANSPORTING

CAUTION

- DO NOT allow anyone to operate, service, inspect or otherwise handle this implement until all operators have read and understand all of the instructional materials in this Owner/Operator's and Parts Manual and have been properly trained in its intended usage.
 - Before operating the implement, look in all directions to ensure there are no bystanders, especially small children, in the work area.
 - No riders allowed when transporting.
 - Do not drink and drive.
 - Before moving, be sure required lights and reflectors are installed and working.
 - Before maintenance or repair, stop vehicle, set parking brake, and remove ignition key.
 - Place safety stands under frame and chock wheels before working on tires or chassis.
 - Maintain wheel bolts at torque as recommended in the manual.
 - If equipped with brakes, maintain proper adjustment.
-

CAUTION



PULL-TYPE UNITS

- Use flashing warning lights when transporting on ALL highways public roadways) at ALL times (Tractor towed models) EXCEPT WHEN PROHIBITED BY LAW! (Check w/local law enforcement).
 - Adhere to all state and federal laws. Implement lights do not replace the SMV (Slow-Moving Vehicle) identification emblem. All towed agricultural vehicles must display SMV emblems when traveling LESS than 20 mph (32 kph).
 - Check for traffic constantly. Be sure you can see that no one is attempting to pass you and that all traffic is sufficiently clear from you before making any turns.
 - Securely attach to towing unit. Use a high strength appropriately sized hitch pin with mechanical retainer and attach safety chain.
 - Do not exceed 20 mph (32 kph). Slow down for corners and rough terrain.
-

WARNING



- Shift to lower gear before going down steep grades
 - Avoid traveling on slopes or hills that are unsafe
 - Keep towing vehicle in gear at all times
 - Never exceed a safe travel speed (may be less than 20 MPH)
-

WARNING

You must observe all applicable traffic laws when transporting on public roadways. Check local laws for all highway lighting and marking requirements.

(Tractor Powered) Do not tow at speeds in excess of 20 mph.

IMPORTANT

Verify that the rear discharge door is in the closed position before traveling on roadways.

If you will travel on public roads and it is legal to do so, you must know all rules governing such operation. This will include lighting and brake requirements in addition to traffic rules.

Note: *An optional highway lighting package is available to assist in meeting these requirements. See your Meyer dealer for details.*

6.8.1 Safety Chain

The chain must be of adequate size to hold the weight of the loaded implement.

Note: *If using a grab hook at the end(s) of the chain to secure the chain to itself, a hook latch (Item 1) must be installed.*

The length of the safety chain is not to be any longer than necessary to turn without interference. If any chain links or attachment hardware are broken or stretched, repair before using. Store chain so it does not corrode or become damaged. Do not use this chain for other implements because the strength and length of the chain may not be adequate. Identify this chain for use on this particular implement.

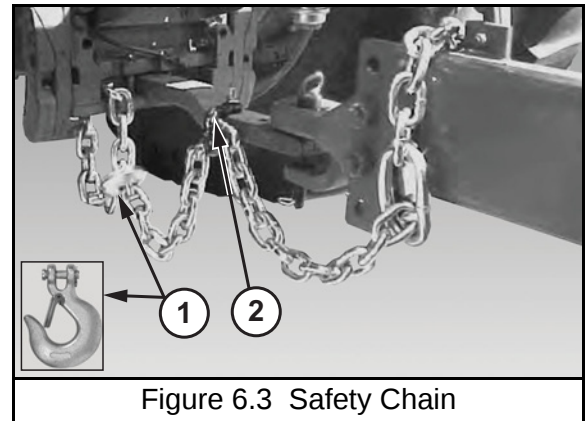


Figure 6.3 Safety Chain

Note: *Do not use the intermediate support (Item 2) as the attaching point.*

IMPORTANT

If you do not have a safety chain, or a replacement safety chain is needed, see your local Meyer dealer and do not operate on public roads until you are able to travel with the safety chain properly installed.

6.8.2 Tractor Towing Size Requirements

Use the following charts to help calculate the minimum tractor weight when towing without implement brakes. The minimum tractor weight, up to 20 mph (33 kph) needs to be two thirds of the box Gross Weight (GW). Gross Weight is calculated by the empty weight of the box and undercarriage combined added to the Load Weight. Then take the Gross Weight and multiply it by 0.667 and you will get the Minimum Required Weight of the Tractor. A tractor with this recommended weight for your machine is normally adequate for towing the loaded machine under average conditions.

Note: *Implement Loaded Weight x 0.667 = Minimum Tractor Weight Up to 20 mph*

Model	MAXIMUM IMPLEMENT GROSS WEIGHT (LBS)	MINIMUM TRACTOR WEIGHT UP TO 20 MPH (LBS)

6.9 OPTIONAL EQUIPMENT

Refer to scale indicator (Item 1) manufacturer's operators manual for operation.

See 8.5.1 Digital Scale Indicator for additional scale maintenance information.

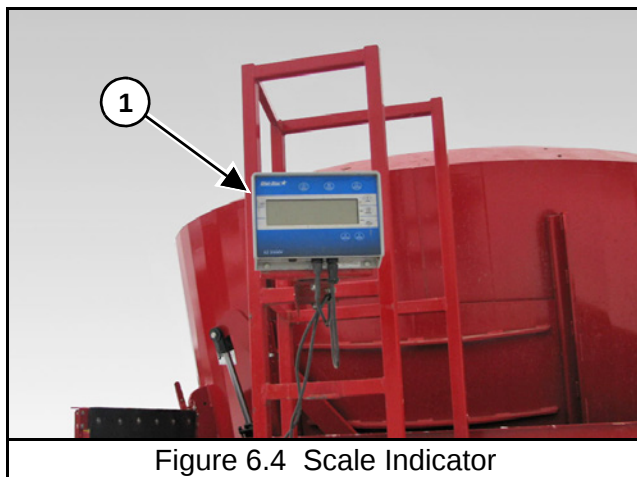
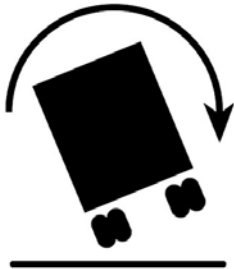


Figure 6.4 Scale Indicator



7.0 OPERATION

CAUTION



- DO NOT allow anyone to operate, service, inspect or otherwise handle this implement until all operators have read and understand all of the instructional materials in this Owner / Operator's and Parts Manual and have been properly trained in it's intended usage.
- Before operating the implement, look in all directions to ensure there are no bystanders, especially small children, in the work area.
- Do not climb or step on any part of the implement except designated ladders and platforms.
- Turn on level ground. Slow down when turning.
- Go up and down slopes, not across them.
- Keep the heavy end of the machine uphill.
- Do not overload the machine.
- Check for adequate traction.

7.1 GENERAL

IMPORTANT

Always operate at the rated PTO speed but **DO NOT EXCEED THE RATED PTO SPEED**. If the mixer is operated faster than the rated PTO speed the strain on the drive train and mixer is greatly increased.

Do not force hay into the auger with loader or any other device.

Be aware of the overall size of the mixer to allow clearance through doorways.

The mixer is designed for blending dairy and beef rations. The mixer performance can vary according to the difference in material, loading sequence, mixing speed and unloading methods. The following guidelines should be understood before operating the mixer.

A new mixer will need an initial run-in period to polish the augers and mixer sides to achieve correct material movement inside the mixer. Until the unit is polished inside the user may experience material spillage, dead spots, or increased horsepower requirements. The load size may need to be reduced until the unit is polished inside.

7.2 OPERATIONAL CHECKS



DO NOT ENTER MIXING CHAMBER WHILE MIXER IS RUNNING!
Shutoff and lockout power before attempting to clear an obstruction or to perform work inside the mixing chamber. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

Make certain all personnel are clear of the implement before applying power.



Always keep all shields and guards in place and securely fastened. Keep hands, feet and clothing away from moving components.



Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

DO NOT allow anyone to operate, service, inspect or otherwise handle this implement until all operators have read and understand all of the instructional materials in this Owner / Operator's and Parts Manual and have been properly trained in its intended usage.

Before operating the implement, look in all directions to ensure there are no bystanders, especially small children, in the work area.

Before running material through the mixer for the first time and each time thereafter, follow these steps:

1. Follow the Start-Up procedure section 6.7.1 Start-Up.
2. Raise and lower the door several times.
3. Lower and raise mixer slide trays or conveyors, if equipped.
4. Operate the mixer augers and conveyors, if equipped, for approximately 5-10 minutes.
5. Follow the Shut-Down procedure section 6.7.2 Shut-Down.
6. Check drive components to be sure components are not abnormally hot.
7. Check all hydraulic components for leaks.

Adjust and lubricate equipment as needed. See Section 8.3 ADJUSTMENTS and Section 8.2 LUBRICATION.

7.2.1 Material



Never hand feed material into mixer while it is running. Augers may cut or grab hands, clothing or material being loaded. Always stop the tractor's engine before hand loading materials.

Some feed materials will need to be processed alone in the mixer before they can be efficiently mixed with other feed materials.

- Large square or round bales of alfalfa
- Large square or round bales of high moisture content
- Large square or round bales of long mixed grasses, wheat or oat hay
- Large square or round bales of crop residue such as straw or soybean stubble
- Very light and bulky feed material

NOTE: Always remove any twine, net or plastic wrap from bales before loading into mixer.

7.2.2 Shear Bolt PTO, Primary

The primary driveline on the F425/F510 has a shear bolt design. When the torque reaches its maximum load, the shear bolt will shear to protect the system. Replace the 3/8"-16 x 1" grade 5 shear bolt and 3/8-16 locknut to reset the PTO.

7.3 LOADING



DO NOT ENTER MIXING CHAMBER WHILE MIXER IS RUNNING!
Shutoff and lockout power before attempting to clear an obstruction or to perform work inside the mixing chamber. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.



Be aware of power lines and other overhead obstructions when loading with a telescopic arm or loader.



Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

Comply with the safety instructions stipulated in the User Manuals for the operation / handling equipment used for loading the mixer.

Do not climb or step onto the platform or ladder before the parking brake has been applied.

When loading from a raised bay or platform, adopt the necessary measures (safety rails, etc.) to avoid people or equipment from falling into the machine.



Overloading may cause failure of axles, tires, structural members, hitches, loss of vehicle control. DO NOT exceed maximum gross weight.

NOTE: *Overloading can have detrimental effects on the integrity of the implement and it's safe use. Overloading will void warranty and increase risk to the operator's safety. Always be aware of your gross weight.*

Before loading, especially in freezing weather, make sure the augers are free to rotate and the discharge door moves freely up and down.

MATERIAL	LBS / CU.FT.
Soybeans	47 lbs.
Cotton Seed (Dry)	20 lbs.
Corn (Shelled)	45 lbs.
Corn Silage	30 lbs.
Haylage	20 lbs.
Sawdust	17 lbs.

NOTE: *Maximum Gross Weight is the lesser value between the implement or tires.*

MODEL	MAXIMUM MIXER GROSS WEIGHT	TOTAL NET WEIGHT (LBS)	CU. FT. CAPACITY**

** Struck capacity, heaped loads significantly increase weight.

When loading material into the mixer with an end-loader, dump the material into the center of the mixer.

1. Be sure that mixer is parked on a level surface.
2. The tractor should be straight in line with the mixer.
3. Completely close the mixer discharge door(s).
4. Set hay stops according to the instructions in this manual. See section 7.9 HAY STOP ADJUSTMENT.
5. Enter the tractor and start the engine.
6. Engage the PTO / hydraulics.
7. Set the tractor engine to operate at approximately 3/4 of rated PTO speed.
8. Load baled hay into the center of the mixer.
9. Allow mixer enough time to process the bale before adding other ingredients (4-10 minutes).

NOTE: Processing of long stem forages will continue as other materials are added and mixed. Be careful not to over process these materials before adding other ingredients.

7.3.1 Loading Sequence

IMPORTANT

Load all ingredients as quickly as possible. Allow a final mix time of 3-7 minutes, or whenever the load looks consistently mixed.

Never load long stem bales last. They will not be processed or mixed into the ration and may cause unloading difficulties or spillage.

NOTE: The loading sequence could vary.

The following is an example of a typical loading sequence:

1. Load and process long stemmed materials.
2. Load haylage and corn silage.
3. Load minerals, proteins and other small quantity ingredients.
4. Load grains, wet and dry commodities, etc.
5. Load all liquid fats, water and other liquids. Always load liquids at the center of the mixing chamber.

7.4 MIXING



DANGER

DO NOT ENTER MIXING CHAMBER WHILE MIXER IS RUNNING! Shutoff and lockout power before attempting to clear an obstruction or to perform work inside the mixing chamber. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

IMPORTANT

Always operate at the rated PTO speed but **DO NOT EXCEED THE RATED PTO SPEED**. If the mixer is operated faster than the rated PTO speed the strain on the drive train and mixer is greatly increased.

Do not force hay into the auger with loader or any other device.

Normal mixing speed is 3/4 to full rated PTO speed. Time available to mix, thoroughness of the mix, and ingredients are all factors that must be considered when deciding on when and how fast to operate the mixer.

7.4.1 Mixing Troubleshooting Guide

PROBLEM	POSSIBLE SOLUTIONS
Forage Is Cut Too Short	• Reduce the initial processing time. • Adjust hay stops to a less aggressive or neutral position. (See Section 7.9 HAY STOP ADJUSTMENT) • Reduce total loading time. • Reduce the mixer RPM to limit aggressiveness in processing. • Modify the knife type, quantity, setting or placement.
Spillage Is Occurring	• Reduce Load Size. • Reduce tractor and/or mixer RPM. • Make sure machine is level. • The load size may need to be reduced until the unit is polished inside. • Adjust hay stops to a less aggressive or neutral position. • Adjust knives to a less aggressive position. • If spillage still occurs, the optional side extensions or hay retention ring may need to be installed.
Dead Spots	• The load size may need to be reduced until the unit is polished inside. • The auger scraper may need to be adjusted. (See Section 8.3.5 Auger Scraper Plate)

7.5 PLATFORM OPERATION

Park the tractor on a flat, level surface.

Engage the parking brake.

NOTE: *Always maintain a three-point contact at all times when getting on and off the ladder. Use the ladder rails and steps when climbing the ladder.*

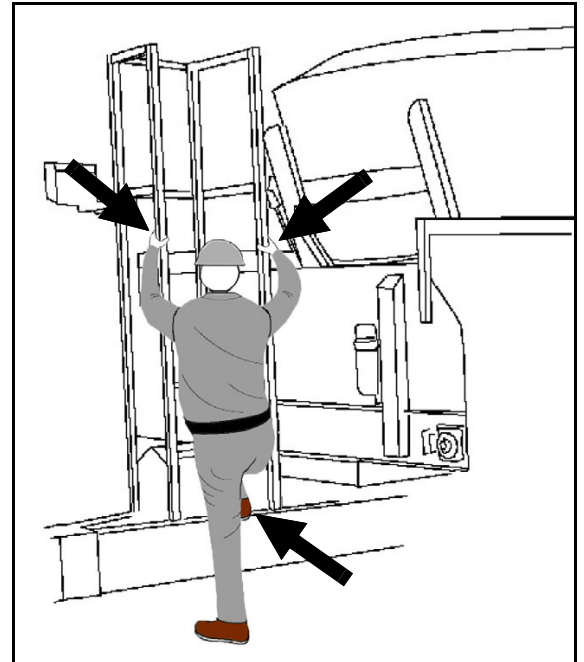


Figure 7.5 Viewing Platform

7.6 FOLDING LADDER

To unfold the ladder, release latch (Item 1) and pull ladder fully out (Item 2). To return ladder to storage position, pull ladder out to “unlock” it and guide the ladder support back up to its original position. Replace latch.

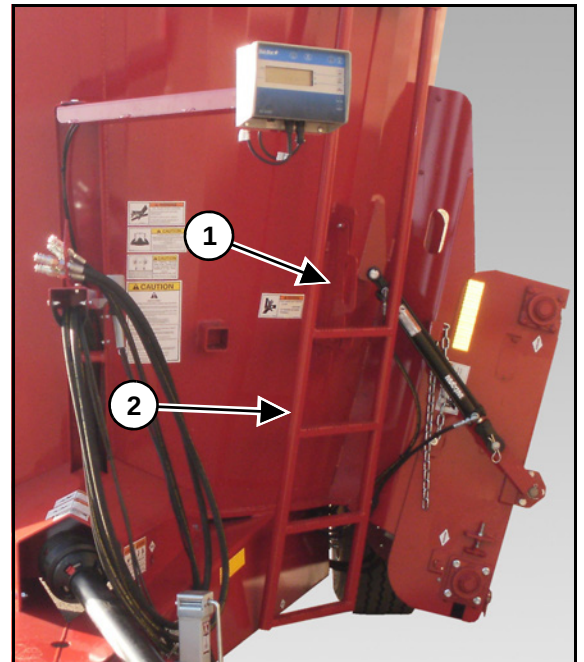


Figure 7.6 Folding Ladder

7.7 UNLOADING



DO NOT ENTER MIXING CHAMBER WHILE MIXER IS RUNNING!
Shutoff and lockout power before attempting to clear an obstruction or to perform work inside the mixing chamber. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.



Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

NOTE: Unload the mixed ration within a short time of mixing. A fully loaded mixer which is bounced over rough terrain or allowed to settle will require more horsepower during start-up.

1. Enter the tractor, start the engine, release the parking brake.
2. Move the tractor and mixer to the unloading area.
3. Be sure that mixer is parked on a level surface.
4. The tractor should be straight in line with the mixer.
5. Shift front sliding conveyor into working position or lower slide tray / conveyor (if equipped).
6. Engage the PTO.
7. Set the tractor engine to operate at approximately 1/2 of rated PTO speed.
8. Open discharge door slowly to adjust the amount of material to be discharged. Adjust door height or conveyor speed for desired flow of feed.
9. After the load begins to discharge, increase the tractor RPM to full rated PTO speed to ensure fast and thorough clean out while driving forward along the discharge path.
10. When finished unloading, reduce engine speed to idle and disengage the PTO / hydraulics.
11. Move the mixer forward, away from the unloaded material.
12. Close the discharge door.
13. Shift front sliding conveyor into storage position or raise slide tray / conveyor (if equipped).
14. Park the mixer on a flat, level surface.
15. Engage the parking brake, stop the engine and exit the tractor.

7.8 UNHOOKING THE TRACTOR



Keep hands, legs and feet from under tongue and hitch until jack is locked into place.

Jack is not designed to support the implement when it is loaded.

1. Park the implement on level ground. Put the tractor controls in neutral, set the parking brake, and turn the engine off before dismounting.
2. Place wheel chocks in front and in back of the implement wheels on opposite sides to prevent the implement from rolling after the tractor is unhooked.
3. Disconnect the PTO drive shaft.
4. Remove the hydraulic hose ends from the tractor hydraulic ports and secure the hose ends in the key slot holes on the front of the mixer to keep them clean.
5. Remove the light cords and any optional equipment connections.
6. Remove the jack from the storage mount and reinstall the jack on the hitch tongue. Crank the jack down until the hitch lifts off the tractor drawbar.
7. Remove the hitch pin.
8. Unhook safety chain from tractor drawbar and intermediate support.
9. Slowly drive the tractor away from the implement.

7.9 HAY STOP ADJUSTMENT

CAUTION

DO NOT adjust the hay stops while the mixer is running. Moving feed inside the mixer can make the hay stop move suddenly causing injury to the person making the adjustment.

IMPORTANT

Never operate the mixer without the hay stop lock bolt installed.

7.9.1 Hay Stop Lock Bolt

The hay stop lock bolt (Item 1) prevents the hay stop from rotating past the intended range of operation. If the hay stop bolt and the positioning pin (Item 2) are removed, the hay stop could contact the moving auger and cause damage to the hay stop and auger.

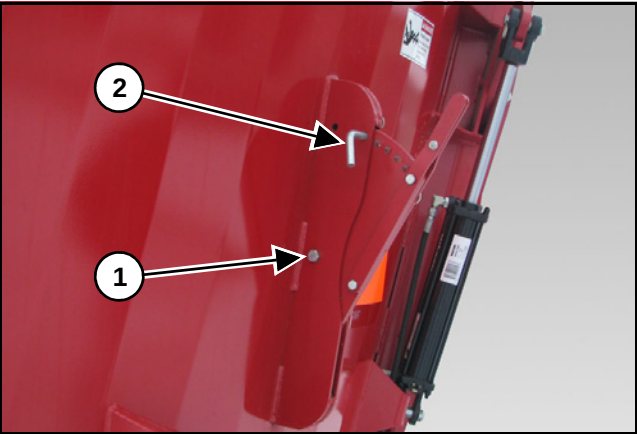


Figure 7.7 Hay Stop Lock Bolt

Position	Setting	Material
A	High	Light And Bulky Material (Dry Grasses)
B	Medium High	Alfalfa Bales And Other Forages
C	Neutral	Unrestrained Movement Of Feed
D	Medium Low	Heavier Rations
E	Low	Aggressive Cutting

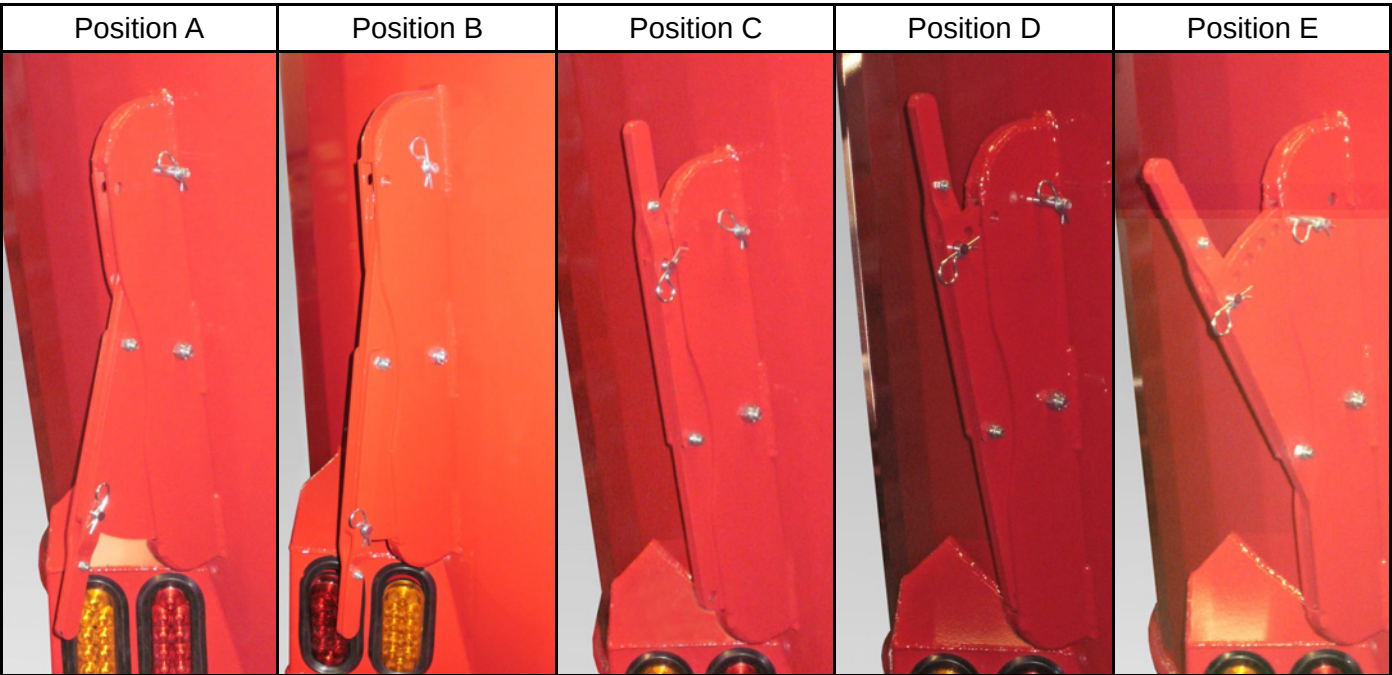


Figure 7.8 Hay Stop Positions

8.0 MAINTENANCE

8.1 GENERAL



Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

IMPORTANT

When welding do not allow electrical current to flow through bearings, roller chains, or scale weigh bars. Ground the welder directly to the part being welded. Always disconnect the power cord from scale indicator before welding.

8.2 LUBRICATION



Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

IMPORTANT

Fluid such as hydraulic fluid, grease, etc., must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

NOTES:

- *Use a grease type that is composed of a high quality lithium complex or better, unless otherwise stated. We recommend using a #1 grade in colder temperatures or a #2 grade in warmer temperatures.*
- *We recommend using a 4-jaw grease coupling to allow greasing of both imperial and metric style grease fittings.*
- *Over lubrication is a major cause of bearing failures. Please lubricate conservatively when unsure of bearing requirements.*
- *Do not mix synthetic and mineral oils.*

8.2.1 Daily Lubrication

Check the planetary gearbox oil levels daily to prevent abnormal component wear. Add new oil to the planetary reservoir tank (See 8.2.10.1 Planetary Gearbox) if the oil level is not at the oil reservoir mark (Item 1).

Check for any oil leaks. If leaks occur, correct the source of the leak.

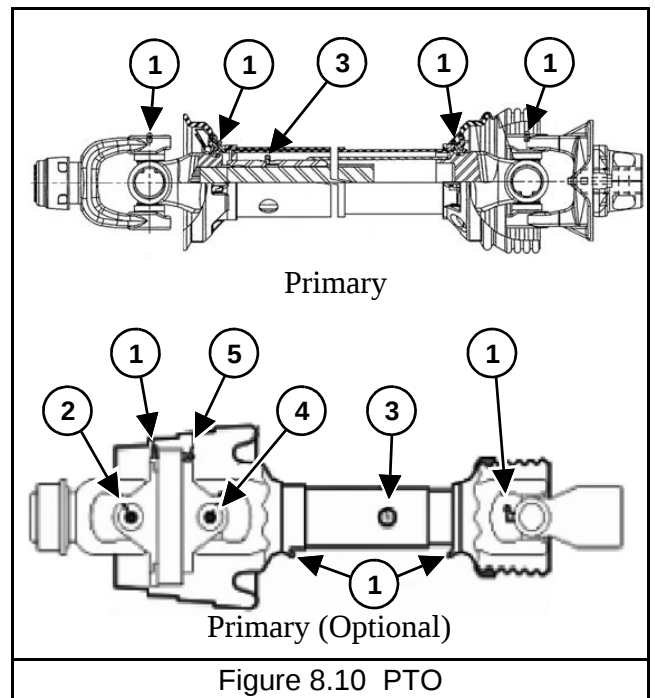


Figure 8.9 Planetary Reservoir

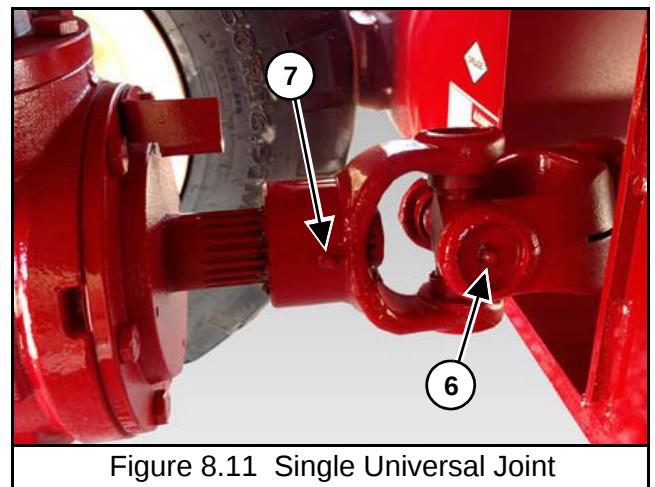
8.2.2 Every 8 Hours

Grease all PTO driveline zerks

1. Grease PTO locations every 8 hours.
2. Lubricate the outer CV cross kit with about 5 pumps of grease every 8 hours.
3. Grease telescoping members until it adequately covers the sliding members every 8 hours. Take apart occasionally to make sure adequate lubrication is being added. Take apart each season to be cleaned with solvent and re-coated with grease before re-assembling.
4. Lubricate the inner CV cross kit with about 15 pumps of grease every 8 hours.
5. Lubricate the double yoke with about 10 pumps of grease every 8 hours.



Grease all universal joints (Item 6) and the slide (Item 7).



8.2.3 Monthly Lubrication

Grease the hubs through the zerk (Item 1) in each hub (If Equipped). Be careful not to over grease and force the seal out of the back side of the hub.

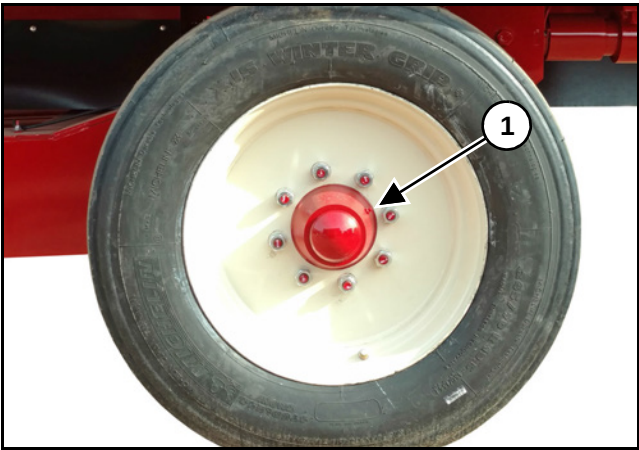


Figure 8.12 Grease Lubricated Wheel Hub

Clean out under chain return shield (Item 2) (If Equipped).

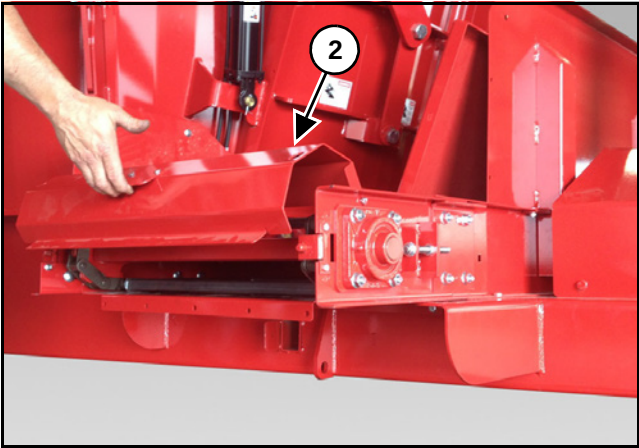


Figure 8.13 Front Chain Conveyor Return

Grease weigh bar mounts (If mounts are equipped with grease zerks).

8.2.4 Every 40 Hours

Oil door pivots (Item 1).

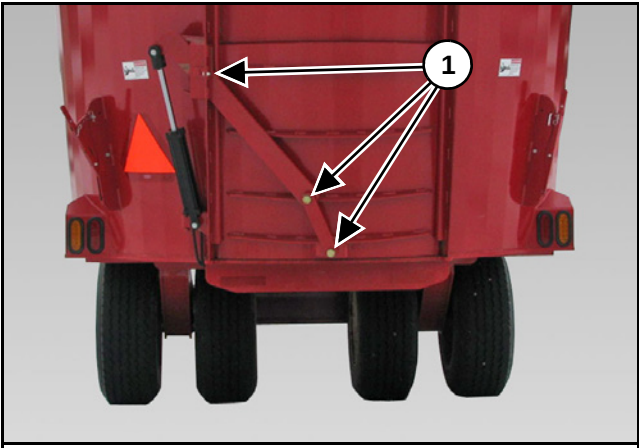
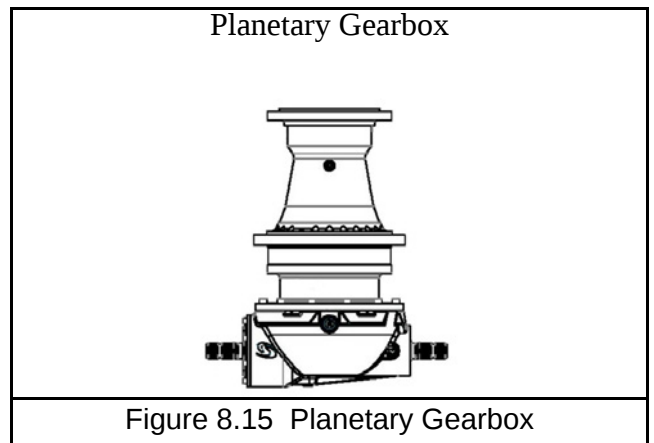


Figure 8.14 Door Pivots

8.2.5 First 50 Hours

First oil change in the planetaries (See 8.2.10.1 Planetary Gearbox).



8.2.6 Every 250 Hours

NOTES:

- *The number of input bearings will vary depending upon your model mixer.*
- *Shielding has been removed for illustration purposes only.*

Grease all input bearings with 1 pump of grease (Item 1). Be careful not to over grease.

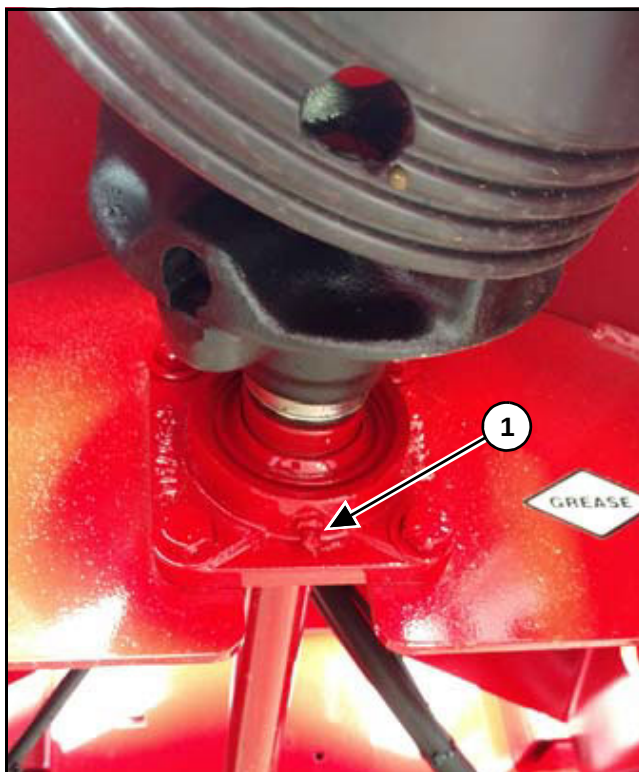


Figure 8.16 Front Input Shaft Bearing



Figure 8.17 Rear Input Shaft Bearing

Grease the four (4) front cross conveyor bearings (Item 2) (If Equipped).

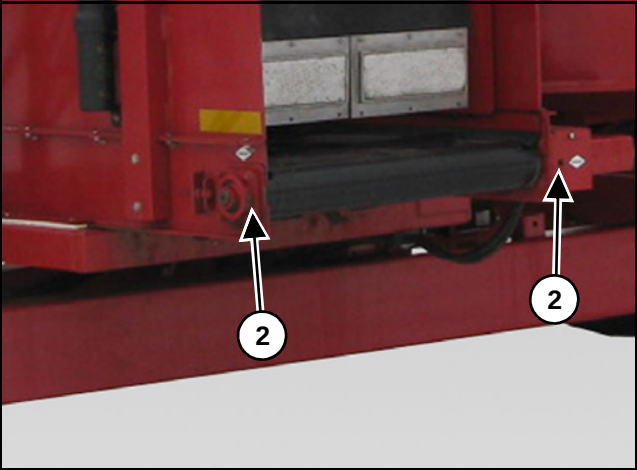


Figure 8.18 Front Cross Conveyor - Left Side

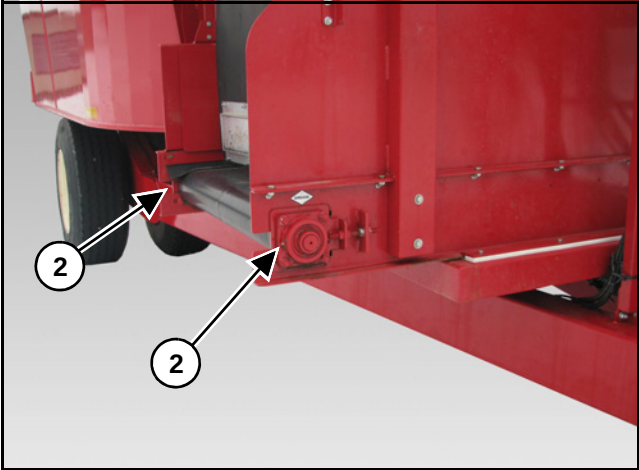


Figure 8.19 Front Cross Conveyor - Right Side

Grease the four (4) side door conveyor bearings (Item 3) (both sides) (If Equipped).

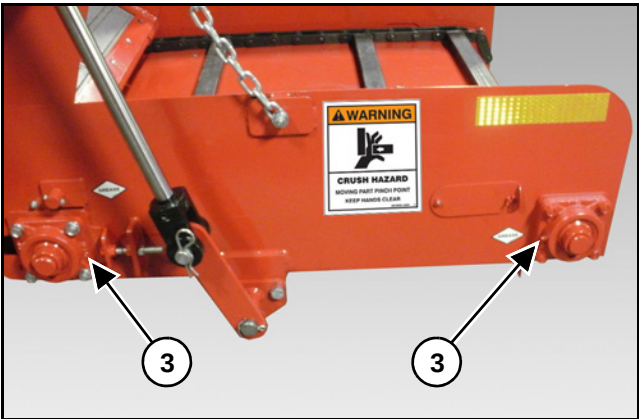


Figure 8.20 Side Door Conveyor Option

8.2.7 Annually

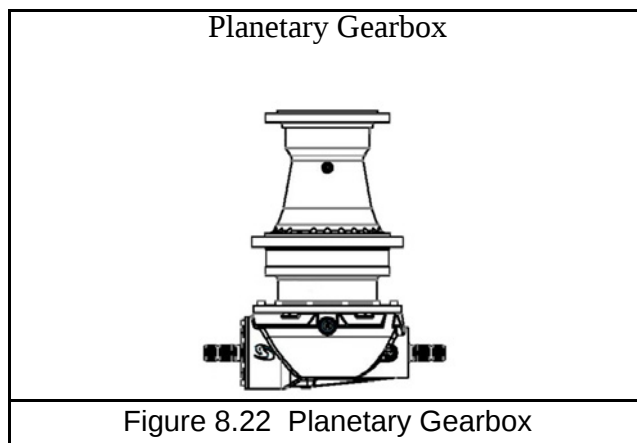
Clean and repack the grease lubricated wheel hubs with axle grease (If Equipped). (See 8.2.9 Grease Hubs Procedure)



Figure 8.21 Grease Lubricated Wheel Hub

8.2.8 Annually or Every 2000 Hours (Whichever Is First)

Change oil in the planetary gearboxes. (See 8.2.10.1 Planetary Gearbox)



8.2.9 Grease Hubs Procedure

- Use a pressure packer to pack the bearing cones with grease by forcing grease into the cavities between the rollers and cage from the large end of the cone. If a pressure packer is not available, pack the bearings by hand.
- Apply a light coat of grease to the spindle bearing journals.
- Pack the area of the hub between the two bearings with grease up to the smallest diameter of the bearing cups. Remove excess grease.
- Install and tighten the hub retention hardware. Apply a light coat of approved NLGI 1 or 2 grease to the hubcap interior and across the face of the outer locknut. This will indicate that NLGI 1 or 2 grease was used, as well as help prevent corrosion of these parts.

8.2.10 Gearbox Oil Change Procedures



Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.



Fluid such as hydraulic fluid, grease, etc., must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

NOTES:

- *In order to avoid sludge deposits, change the oil while the gear unit is still warm.*
- *For an effective oil change, the unit should be flushed with a liquid detergent recommended by the lubricant supplier.*
- *The mixer should be level when changing gearbox oil.*

8.2.10.1 Planetary Gearbox

Draining

- Place a container of sufficient capacity under the gearbox (Item 4). Remove the planetary reservoir (Item 2) cap (Item 3).
- Drain the planetary by removing the drain plug (Item 5).
- After the planetary is completely drained, reinstall the drain plug.

Filling

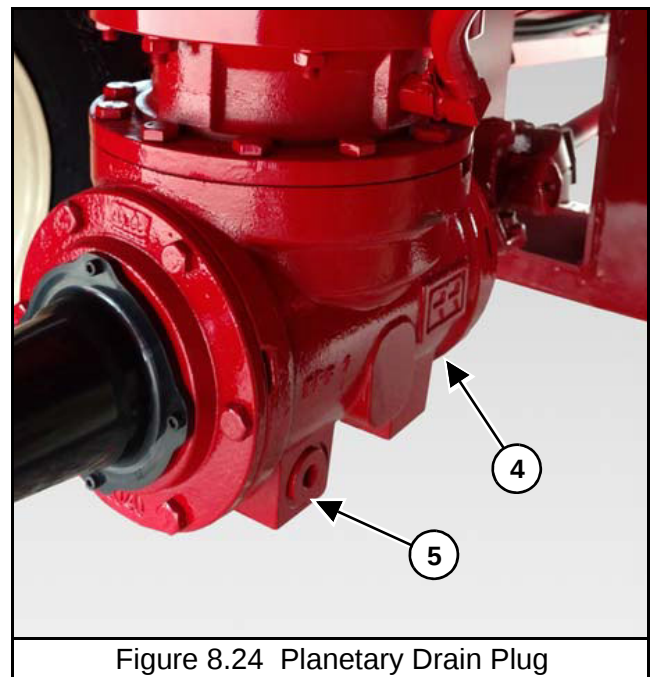
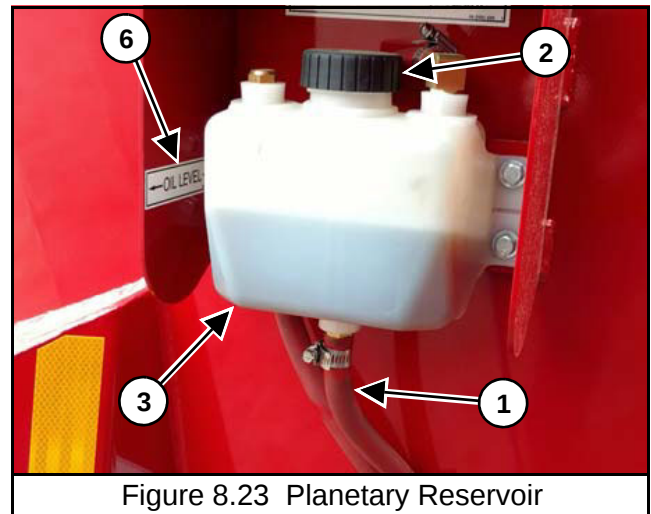
Filling with an oil pump:

(Call the factory to purchase an oil pump kit, Part #: VA-OP.)

- Loosen the hose clamp and detach the lower hose (Item 1) on the reservoir (Item 2). Unbolt the reservoir and lay so the top hose and reservoir are below the lower hose used for filling (Item 1).
- Connect oil pump to the lower hose (Item 1) and fill with oil until the reservoir (Item 2) fills with approximately 2 quarts of oil. Discard this oil if it is dirty.
- Reattach the lower reservoir hose (Item 1) with the hose clamp.
- Bolt the reservoir back in place.
- Fill the reservoir to the oil level mark (Item 6) and reinstall the cap (Item 3).

NOTE: See Planetary Lubrication Specifications table for oil type and approximate capacities.

- Inspect the reservoir breather, make sure it is not plugged, and check for leaks.



PLANETARY LUBRICATION SPECIFICATIONS				
Model	Part Number	Description	Oil Type	Capacity Per Planetary (Including Reservoir) (Approximate)
425 / 510	119-1680-24.18-1	1680 Planetary 24.18:1	Synthetic ISO 220 Or Equivalent	23.5 Quart
425 / 510	119-21-25.67-1	2100 Planetary 25.67:1	Synthetic ISO 220 Or Equivalent	18.5 Quart

8.3 ADJUSTMENTS



Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

If work must be done inside the mixer, put a protective cover over the auger knives to avoid injury. The hopper and flighting may be slippery. Use caution when stepping on or standing inside the mixer.

8.3.1 Side Discharge Conveyor

To adjust tension of the chain, loosen the inner nut (Item 1) and either tighten or loosen the outer nut (Item 2) as needed. Count the number of turns you are adjusting so you can adjust the other end. Once you have proper tension, re-tighten the inner nut (Item 1) on both sides.

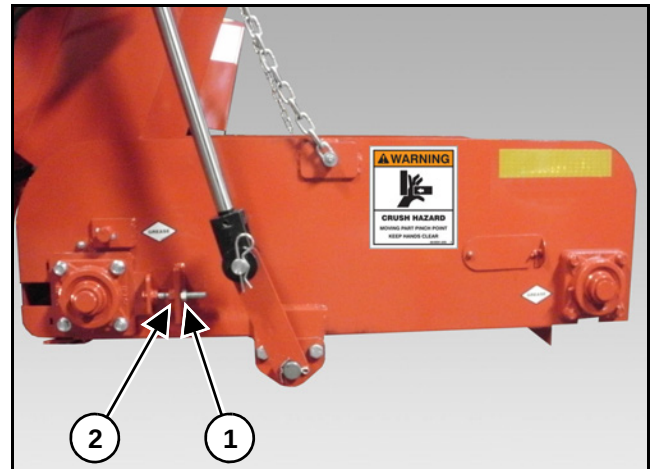


Figure 8.25 Side Discharge Conveyor

8.3.2 Front Discharge Conveyor - Chain

To adjust tension of the chain, loosen the inner nut (Item 1) and either tighten or loosen the outer nut (Item 2) as needed. Count the number of turns you are adjusting so you can adjust the other end. Once you have proper tension, re-tighten the inner nut (Item 1) on both sides.

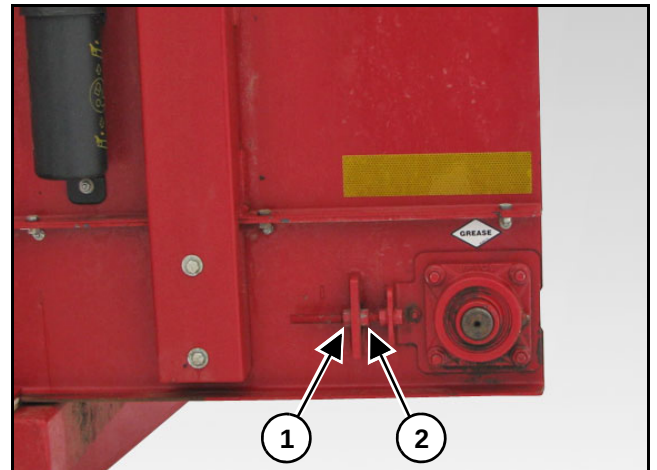


Figure 8.26 Chain Conveyor Adjusters

8.3.3 Belt Conveyor Tension

IMPORTANT

Check belt tension often. Belts can tighten with use.
Overtightening can cause damage to belt.

Front Conveyor:

Tension the belt (Item 1) so as the belt is flush with the bottom radius (Item 2) of conveyor side rails.

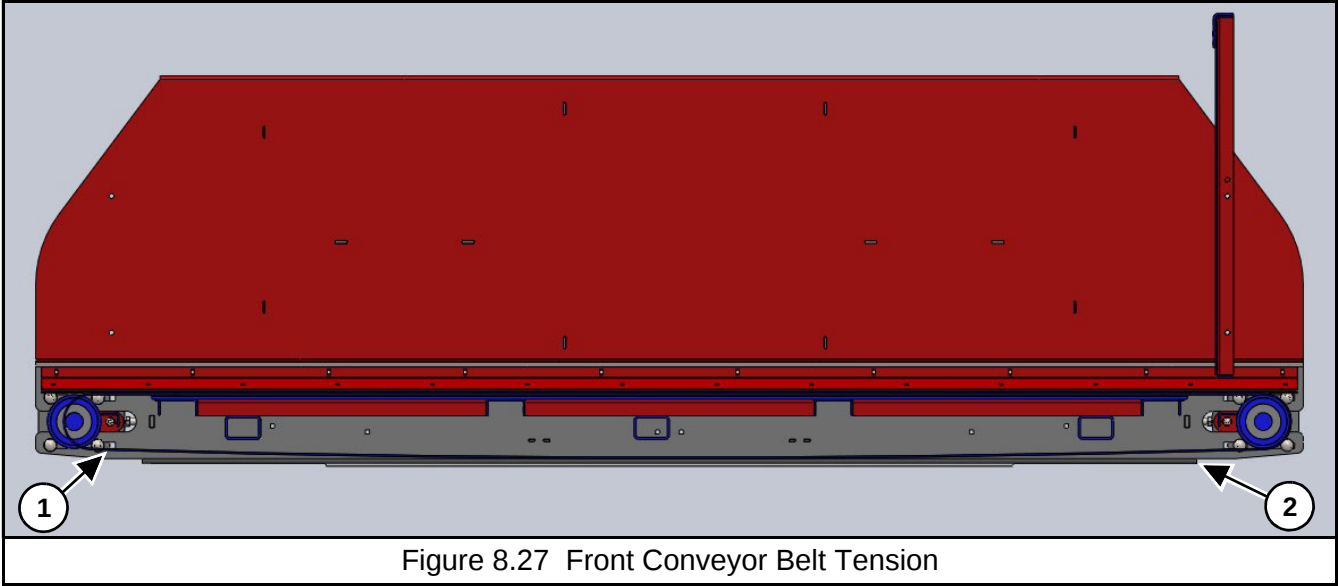


Figure 8.27 Front Conveyor Belt Tension

Incline/Side Discharge Conveyor:

Tension the belt (Item 3) so as the midpoint between both rollers sags 7/8" lower than at the rollers (Item 4).

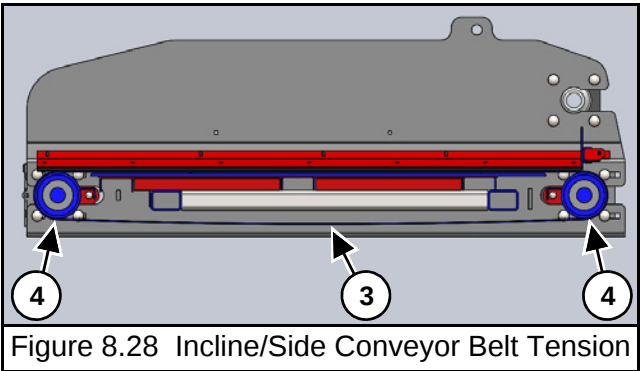


Figure 8.28 Incline/Side Conveyor Belt Tension

8.3.4 Tracking

NOTE: The primary discharge side for the two motor flat conveyor is the side that is used for discharge the most.

Step 1: Loosen the lock nuts (Item 1) holding the four bearings to the conveyor. Loosen the tightener nuts (Item 2) on all adjuster locations. Do not loosen the scraper bolts (Item 3).

Step 2: Locate the primary discharge side of the conveyor.

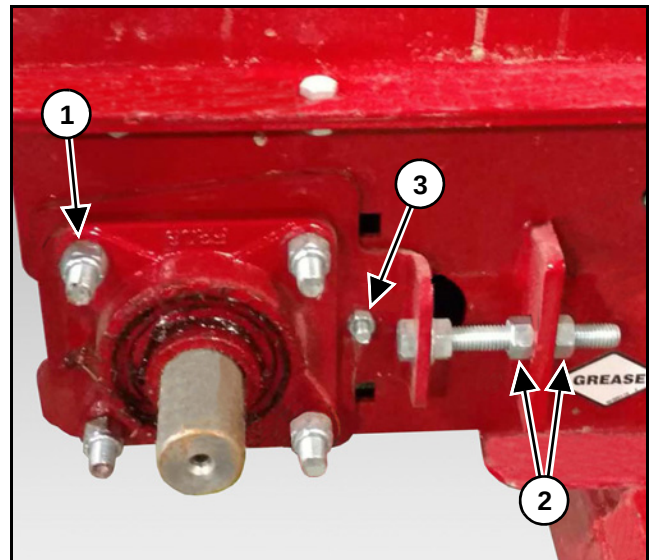


Figure 8.29 Conveyor Adjusters

Step 3: Set the primary side as follows:

Use the primary side adjusters to remove at least half of the belts slack. Measure, as shown below, until both sides of the drive pulley shaft (Item 4) are set at exactly the same from the end of the conveyor frame (Item 5).

Step 4: Once the primary drive pulley is set and square, tighten the lock nuts on both primary drive pulley bearings. Lock both adjusters on the primary drive pulley.

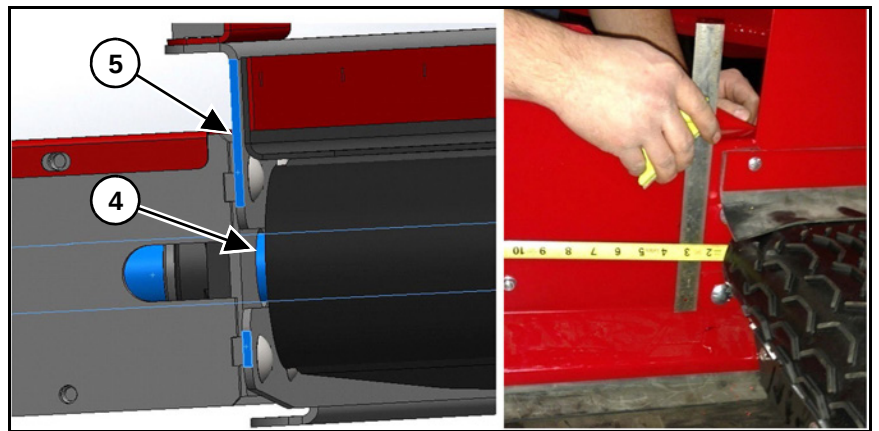


Figure 8.30 Conveyor Primary Discharge Side Setup

Step 5: With the primary discharge drive pulley set, move to the other side of the conveyor. Start to evenly tighten the belt by alternating sides on the non-primary discharge pulley adjusters. Tighten until the lowest hanging part of the belt is flush with the bottom of the conveyor frame. Once the belt is tight (Do not over tighten belt), measure the distance from the non-primary discharge shaft to the end of the conveyor frame, same as shown in Step 3. Do that for both shaft ends of the non-primary discharge pulley.

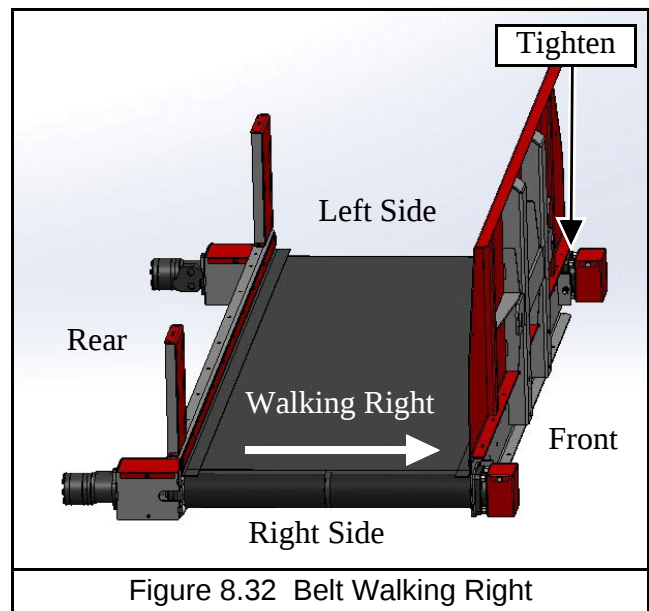
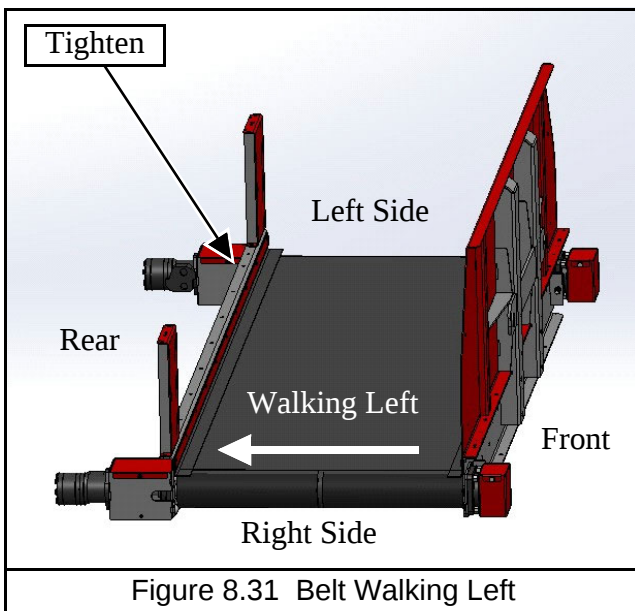
Step 6: Take the shortest measurement from either end and set both ends of the non-primary discharge pulley to the same measurement.

NOTE: If you run out of adjustment on the non-primary side, repeat Step 3 and remove more slack from the belt using the primary side.

Step 7: With the belt tightened as shown in section 8.3.3 Belt Conveyor Tension and the non-primary discharge pulley square with the conveyor frame, tighten the adjuster lock nuts for both non-primary discharge pulley bearings.

Step 8: Run the mixer conveyor for 2-3 minutes (both directions for front flat conveyors) at full RPM. If you notice the belt walking to the left or right while looking at the primary discharge end of the conveyor, stop the conveyor. Check your measurements to make sure both primary and non-primary discharge pulleys are square with the conveyor frame. If the conveyor pulleys are square but the belt continues to walk, use the images below to unlock and tighten the corresponding non-primary discharge pulley bearing adjuster (See Below). Continue to slightly adjust and run the conveyor until the belt stops walking.

NOTE: If the center of the belt is completely out of the pulley groove, you may have to loosen both non-primary pulley adjusters to center the belt. Re-tighten to your measurement used in Step 6 before adjusting the conveyor as shown below.



NOTE: Both images are viewed as if the conveyor is a right primary discharge.

Step 9: With the belt conveyor tracking properly, make sure all bearing bolts are tight and adjusters are locked.

Step 10: Watch the conveyor when discharging your feed ration to make sure the belt doesn't slip. If the belt is slipping, evenly tighten the non-primary discharge side. Run and check belt alignment. Repeat as necessary.

Step 11: Watch the conveyor when discharging your feed ration to make sure the belt doesn't slip. If the belt is slipping, evenly tighten the non-primary discharge side. Run and check belt alignment. Repeat as necessary.

NOTE: If you run out of adjustment on the non-primary side, repeat Step 3 and remove more slack from the belt using the primary side.

8.3.5 Driveline Alignment

Alignment of the driveline is very important. If the driveline is not properly aligned, a vibration noise could start occurring.

In order to properly align the drive shaft joints:

- Find the split in the yoke on the PTO (Item 1) and the split in the yoke on the Universal Joint (Item 2) before the 2-speed gearbox (Item 3) or planetary.
- These two splits should be installed so that they are in-line with each other as shown in the images below.
- You will notice the bolts holding the joints to the shaft are parallel.
- To adjust remove the bolt on the PTO yoke, adjust to align as shown, and re-tighten the bolt.
- Loosen the bolts that attach the bearing directly in front of the 2-speed gearbox (Item 4). With the bearing loose, rotate the shaft an entire revolution to ensure it doesn't bind. With the shaft rotating freely, tighten the bearing (Item 4) hardware.

NOTE: Mixer needs to be empty in order to rotate input shaft.

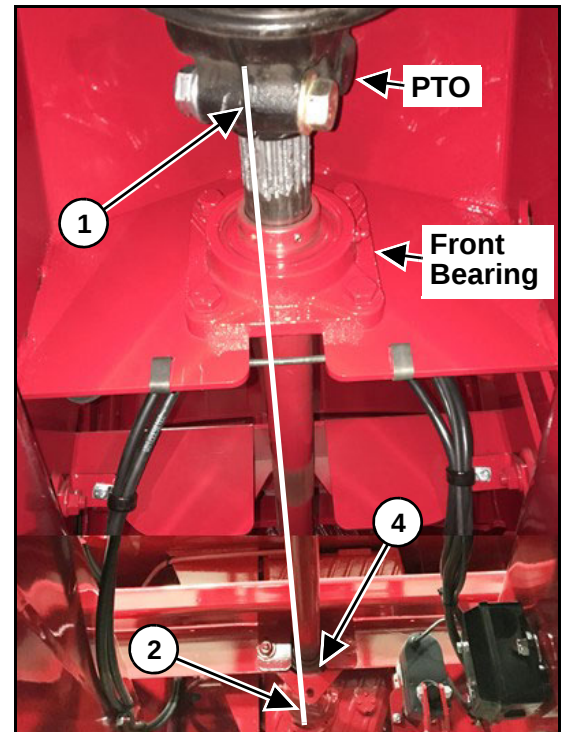


Figure 8.33 Driveline Alignment

8.3.6 Auger Scraper Plate

Check the auger scraper monthly for proper clearance with the side panel. Locate the closest point along the augers rotation that the scraper comes to the baffles. Adjust the scraper to a 1/16" from the located closest point as shown in the image.

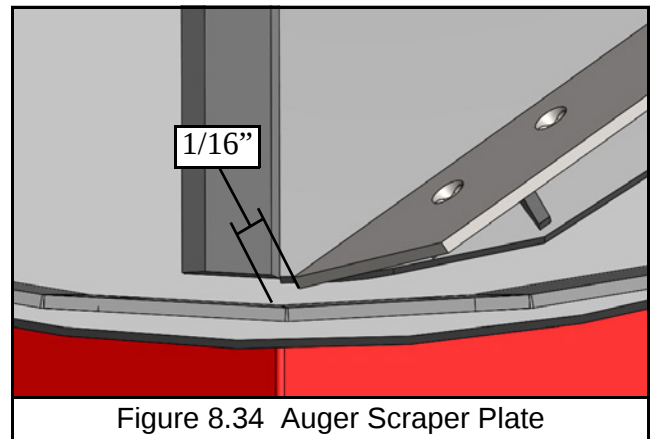


Figure 8.34 Auger Scraper Plate

8.3.7 Knives

Knives are designed and intended for processing and mixing rations that include long stem forages.

NOTE: Some rations may require adding or removing knives, or changing knife position to obtain the desired result.

8.3.7.1 Knife Removal

Individual knives may be removed from the auger if the ration does not include hay or includes very small amounts of small square bale hay or tub ground hay. Removing knives will decrease the aggressive cutting action on the stem length of the ration and may also reduce horsepower requirements.

8.3.7.2 Adding Knives

If the hay in your ration is not being processed enough or fast enough extra knives may be ordered through your dealer. Adding extra knives will help break down and process materials faster, but may increase the horsepower required to process and mix.

8.3.7.3 Knife Placement

The placement of knives towards the bottom of the auger will process the forage faster and make the stem length shorter but may require more horsepower. Placement of knives higher on the auger will assist in breaking up bales faster after initial loading.

8.3.7.4 Knife Position

“Out” Position

When the knives are in the “out” position they tend to move the long stem hay and lighter bulky materials best in the early stages of processing and mixing. This setting may result in feed spillage in certain materials. Knives placed in this setting are very aggressive in processing feed and will also cause an increase in horsepower requirement.

“In” Position

When the knives are in the “in” position they will slow down the long stem hay and lighter bulky materials in the early stages of processing and mixing. Less spillage will occur due to clearance between the knives. This setting is more desirable for heavy rations with long run time and where over processing can occur. Knives placed in this position are less aggressive in processing feed and will reduce the horsepower requirement.

8.3.7.5 Replacing Damaged or Worn Knives

When knives become worn and rounded on the leading edge their efficiency is greatly reduced. This results in longer processing times and increased horsepower requirements. Refer to your parts manual and contact your Meyer MFG dealer for replacement part ordering.

8.3.8 Wheel Bearing Preload

1. Chock all four wheels or hitch to tractor with engine off, key removed and parking brake set. Jack empty mixer off ground and support with adequate jack stands.
2. Push back and forth on each wheel assembly. If play is detected, bearings need adjusting.
3. If adjusting bearings, it is suggested the bearings be repacked (See Grease Hubs Procedure on page 49).
4. Remove hub cap and remove cotter pin from spindle nut.
5. Torque the spindle nut while rotating the hub to seat the bearings using the Seat Bearings torque value for your specific hub listed in the table (See Hub Torque on page 60).
6. Loosen spindle nut.
7. Re-torque the spindle nut to the Final Torque (See Hub Torque on page 60).
8. Install cotter pin. If the nut isn't aligned with the cotter pin hole, back the nut off to closest position that does. **Do Not** back the nut off more than 30° from Final Torque position.
9. Replace hub cap and lower wheel to the ground.



8.4 FASTENER TORQUE SPECIFICATIONS



Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

After an initial break in period approximately four months and periodically thereafter, ALL bolts and nuts should be checked to ensure that recommended torque values are being maintained.

8.4.1 General Torque Specifications



DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only and include a + or - 10% variance. Check tightness of fasteners periodically. DO NOT use air powered wrenches.

Head Marking	Grade and Material	Nominal Size Range (inches)
 No Markings	Grade 2 Low or medium carbon steel	1/4" thru 3/4"
		Over 3/4" thru 1-1/2"
 3 Radial Lines	Grade 5 Medium carbon steel, quenched and tempered	1/4" thru 1"
		Over 1" thru 1-1/2"
 6 Radial Lines	Grade 8 Medium carbon alloy steel, quenched and tempered	1/4" thru 1-1/2"
 A325	Grade A325 Carbon or Alloy Steel with or without Boron	1/2" thru 1-1/2"
Stainless markings vary. Most stainless is non-magnetic	18-8 Stainless Steel alloy with 17-19% Chromium and 8-13% Nickel	All Sizes thru 1"

Figure 8.36 SAE Bolt Grade

Head Marking	Class and Material	Nominal Size Range (mm)
 8.8	Class 8.8 Medium carbon steel, quenched and tempered	All Sizes below 16mm
		16mm - 72mm
 10.9	Class 10.9 Alloy steel, quenched and tempered	5mm - 100mm
 12.9	Class 12.9 Alloy steel, quenched and tempered	1.6mm - 100mm
Stainless markings vary. Most stainless is non-magnetic. Usually stamped A-2.	A-2 Stainless Steel alloy with 17- 19% chromium and 8-13% nickel	All Sizes thru 20mm

Figure 8.35 Metric Bolt Grade

SAE				
	Grade 5, 5.1 & 5.2		Grade 8 & 8.2	
Size (inches)	Lubricated (lb-ft)	Dry (lb-ft)	Lubricated (lb-ft)	Dry (lb-ft)
1/4	7	9	10	12.5
5/16	15	18	21	26
3/8	26	33	36	46
7/16	41	52	58	75
1/2	63	80	90	115
9/16	90	115	130	160
5/8	125	160	160	225
3/4	225	280	310	400
7/8	360	450	500	650
1	540	675	750	975
1-1/8	675	850	1075	1350
1-1/4	950	1200	1500	1950
1-3/8	1250	1550	2000	2550
1-1/2	1650	2100	2650	3350

METRIC								
	Class 4.8		Class 8.8 & 9.8		Class 10.9		Class 12.9	
Size (mm)	Lubricated (lb-ft)	Dry (lb-ft)	Lubricated (lb-ft)	Dry (lb-ft)	Lubricated (lb-ft)	Dry (lb-ft)	Lubricated (lb-ft)	Dry (lb-ft)
M6	3.5	4.5	6.5	8.5	9.5	12	11.5	14.5
M8	8.5	11	16	20	24	30	28	35
M10	17	21	32	40	47	60	55	70
M12	29	37	55	70	80	105	95	120
M14	47	60	88	110	130	165	150	109
M16	73	92	140	175	200	225	240	300
M18	100	125	195	250	275	350	325	410
M20	140	180	275	350	400	500	460	580
M22	190	250	375	475	540	675	625	800
M24	250	310	475	600	675	850	800	1000
M27	360	450	700	875	1000	1250	1150	1500
M30	490	625	950	1200	1350	1700	1600	2000
M33	675	850	1300	1650	1850	2350	2150	2750
M36	850	1075	1650	2100	2350	3000	2750	3500

8.4.2 Wheel Torque

BOLT/STUD SIZE	SOCKET SIZE	PRESS FORMED WHEEL CENTER	BOLT TYPE	HEAVY DUTY WHEEL CENTER
5/8"	15/16" / 1-1/16"	100 lb-ft	Bevel or Flange Nut	160 lb-ft

8.4.3 Hub Torque

MEYER PART #	MODELS	SEAT BEARINGS	FINAL TORQUE
75-0209	425/510	80 lb-ft	50 lb-ft

8.5 ELECTRICAL

8.5.1 Digital Scale Indicator

Refer to scale indicator (Item 1) manufacturer's operators manual for maintenance.

NOTE: Some scale drift may occur after the scale is turned on but should level out within 10 to 15 minutes. Temperature changes may also cause some drifting.

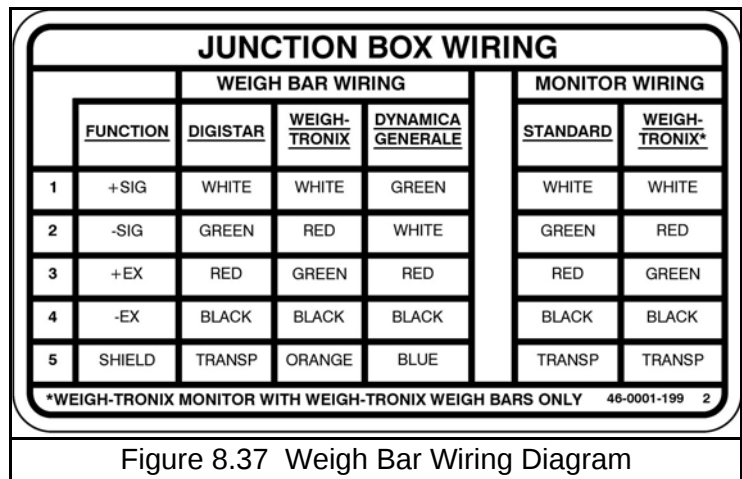


Figure 8.37 Weigh Bar Wiring Diagram

Scale Set Up Numbers

Digistar Monitors	
SET UP #	CALIBRATION #
146024	32000

Weigh-Tronix Monitors	
CONFIGURE #	CUSTOM #
98300	32156

8.6 WHEELS AND TIRES

8.6.1 Wheel Installation



These instructions are not complete. Read and follow all procedures in user's guide to wheels and rims by "The Maintenance Council" #T0410. If you have questions call Walther Eng. & Mfg. company inc. (937) 743-8125.

- Clean adjoining surfaces.
- Start nuts to bring wheel and brake drum (If Equipped) flush to hub mounting surface.
- Avoid brake drum (If Equipped) and/or wheel binding on hub.
- Install remaining wheel nuts. Torque to 50 ft-lbs, then re-torque to required full torque (See 8.4.2 Wheel Torque).
- Re-torque wheel nuts after 50-100 miles.
- Check wheel nut torque every 10,000 miles and re-torque as necessary.

8.6.2 Tire Inflation

TIRE SIZE	PSI
245/70R x 19.5	100
380/60R x 16.5	73
12.5L-15	52

If tires are to operate for any length of time on roads or other hard surfaces and the draft load is not great, it is advisable to increase the pressure in the tire to the maximum recommendation in order to reduce the movement of the tread bars that causes excessive wiping action.

Inflation pressures should be checked at least every week. Recommended inflation pressures based on total load on tires should be used. For accurate inflation use a special low-pressure gauge with one-pound gradations. Gauges should be checked occasionally for accuracy. Always use sealing valve caps to prevent loss of air.

8.6.3 Implement Tires

Agricultural tires are designed to carry a specified load at a specified inflation pressure when mounted on a specified width rim. When these conditions are met, the deflection of the tire carcass is in the optimum range and maximum tire performance can be expected. If this combination of design factors is altered for any reason, tire performance will be reduced.

Tire Overload or Under Inflation

Tire overload or under inflation have the same effect of over-deflecting the tire. Under such conditions the tread on the tire will wear rapidly and unevenly, particularly in the shoulder area. Radial cracking in the upper sidewall area will be a problem. With under inflated drive tires in high torque applications sidewall buckles will develop leading to carcass breaks in the sidewall. While an under inflated drive tire may pull better in some soil conditions, this is not generally true and not worth the high risk of tire damage that such an operation invites.

Over Inflation

Over inflation results in an under-deflected tire carcass. The tread is more rounded, concentrates tread wear at the centerline area. Traction is reduced in high torque service because ground contact of the tread shoulder area is reduced and the harder carcass, with reduced flexing characteristics, does not work as efficiently. The tightly stretched overinflated carcass is more subject to weather checking and impact break damage.

Pressure Adjustments Required - Slow Speed Operation

Higher tire loads are approved for intermittent service operations at reduced speed. Under such conditions inflation pressure must be increased to reduce tire deflection and assure full tire service life. See 8.6.2 Tire Inflation for proper inflation.

Use of Proper Width Rims

If tires are mounted on rims of incorrect width, the following conditions can result:

- Use of a wider rim results in flattening of the tread face. This feature may improve traction in loose soil conditions. In hard soils, however, the flatter tread penetrates less effectively and tractive effort is reduced. Additional stresses concentrated in the shoulder area tend to increase the rate of shoulder tread wear. By spacing the tire beads farther apart the sidewalls are forced to flex in an area lower than normal and this can result in circumferential carcass breaks and/or separation.
- Use of a narrower rim brings potential mounting problems because the rim shield or flange cover molded into most drive tire designs tends to interfere with the seating of the tire beads on a narrow rim. Once mounted on a narrow rim, the tire shield applies undue pressure on the rim flange, with possible tire sidewall separation or premature rim failure at the heel radius. On a narrow rim the tread of the tire is rounded. As with the over-inflated tire tread wear will be concentrated in the center area of the tread and traction in the field will be reduced.

Roading Of Farm Implement Tires

- Tractor tires operate most of the time in field conditions where the lugs can penetrate the soil, and where all portions of the tread make contact with the ground. In operating on hard roads with low inflation pressure there is an undesirable distortion of the tire during which the tread bars squirm excessively while going under and coming out from under the load. On highly abrasive or hard surfaces, this action wipes off the rubber of the tread bars or lugs and wears them down prematurely and irregularly.
- Farm tractor and implement tires are designed for low-speed operations not exceeding 25 miles per hour. If tractors or implements are towed at high speeds on the highway high temperatures may develop under the tread bars and weaken the rubber material and cord fabric. There may be no visible evidence of damage at the time. Later a premature failure occurs which experience shows was started by the overheated condition that developed when the unit was towed at a high speed.

Care And Storage Of Tractor And Implement Tires

- All tires should be stored indoors in a cool, dark, dry area free from drafts. Both heat and light are sources of oxidation on the tire surfaces - a result of which is crazing and weather checking. Tires should never be stored on oily floors or otherwise in contact with solvents, oil or grease. Further, tires should not be stored in the same area with volatile solvents. Such solvents are readily absorbed by rubber and will damage and weaken it.
- Tires should be stored away from electric motors, generators, arc welders, etc. since these are active sources of ozone. Ozone attacks rubber - to cause crazing and weather checking.
- Unmounted tires should be stored vertically on tread. If stored for an extended period, tires should be rotated periodically to reduce stress concentrations in the area of ground contact. Tires should not be stored flat and "stove piped" as they will become squashed and distorted, making mounting on the rim difficult - particularly for tubeless tires.
- Inflated tires mounted on rims should be stored under conditions noted above, with inflation pressure reduced to 10 PSI.

8.7 STORING THE IMPLEMENT

LOCKOUT / TAGOUT the machine / mixer. (See 5.3 SHUTOFF & LOCKOUT POWER)

Extended Storage

Sometimes it may be necessary to store your Meyer mixer for an extended period of time. Below is a list of items to perform before storage.

- Fully empty the material from the mixer. (See 7.7 UNLOADING)
- Thoroughly clean the mixer inside and outside.
- Remove all material build-up.
- Lubricate the equipment. (See 8.2 LUBRICATION)
- Inspect all mixer components for wear or damage. Repair and replace components as necessary.
- Make appropriate adjustments to equipment. (See 8.3 ADJUSTMENTS)
- Place hydraulic hoses and 7-pin connector in the storage brackets (if equipped).
- Inspect the hitch and all welds on the equipment for wear and damage.
- Check for loose hardware, missing guards, or damaged parts.
- Check for damaged or missing safety signs (decals). Replace if necessary.
- Touch up all paint nicks and scratches to prevent rusting.
- Place the equipment in a dry protected shelter.
- Place the equipment flat on the ground.

8.8 RETURN THE IMPLEMENT TO SERVICE

After the Meyer mixer has been in storage, it is necessary to follow a list of items to return the equipment to service.

- Be sure all shields and guards are in place.
- Lubricate the equipment.
- Check tire pressure and that the lug nuts are tight.
- Connect to a tractor and operate equipment; verify all functions operate correctly.
- Check for leaks. Repair as needed.

8.9 MIXER TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE SOLUTIONS
Requiring High Horsepower	• Reduce load size. • Adjust hay stops to a less aggressive or neutral position. • The load size may need to be reduced until the unit is polished inside. • Modify the knife type, quantity, setting, or placement.
Digital Sale Indicator	• Refer to scale manufacturer's operator manual for operation and maintenance. • Some scale drift may occur after the scale is turned on but should level out within 10 to 15 minutes. • Temperature changes may also cause some drifting.
Planetary Reservoir Is Overflowing	• Check oil level when cold. • Clean breather. • Make sure hoses are not kinked or clogged. • Change oil.

9.0 REPAIR PARTS



Before servicing this equipment, ensure that all personnel, including family members are familiar with the equipment and the safety hazards that are present, along with the safety practices that should be observed while working in this equipment.



Inspect the axles, o-beams, spindles, tires, hitches and all safety shielding, safety signs and safety lighting regularly. These parts if not watched closely, could pose potential injury or death. If any part is found in need of repair, follow the SHUTOFF & LOCKOUT POWER recommendations and have qualified personnel repair immediately.



Shutoff and lockout power before adjusting, servicing, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.



It is important that everyone who works on this equipment is properly trained to help ensure that they are familiar with this procedure and that they follow the steps outlined above. This manual will remind you when to SHUTOFF & LOCKOUT POWER.

At times, parts on this implement will become worn or damaged. Performing repairs on this implement can pose a risk of injury including death. To reduce risk, the party that will be doing the repair should be very knowledgeable of the implement and the equipment that they will be using to do the repair.

- Review the repair so that a plan can be put together and the proper equipment can be used to repair this implement safely and correctly.
- Personal safety equipment may include items such as safety glasses, protective footwear, hearing protection, gloves, fire retardant clothes, etc.



Crushing Hazard:
Do Not work under suspended or blocked parts



- The use of hoists and/or supports may be needed to handle heavy components.
- If the implement is being repaired in the field, make sure the parking brake of the tractor is engaged, the implement is on solid and level ground.
- Welding and torching should be done by properly trained individuals who have proven their skills.



Call the factory for any additional details you may need to perform the repair. Some parts may come with instruction sheets to assist in the repair. Instruction sheets may be provided with the parts order. Otherwise, if available, instruction sheets can be e-mailed or faxed for your convenience. Call Meyer Manufacturing Corporation toll free at 1-800-325-9103 or email parts@meyermfg.com.

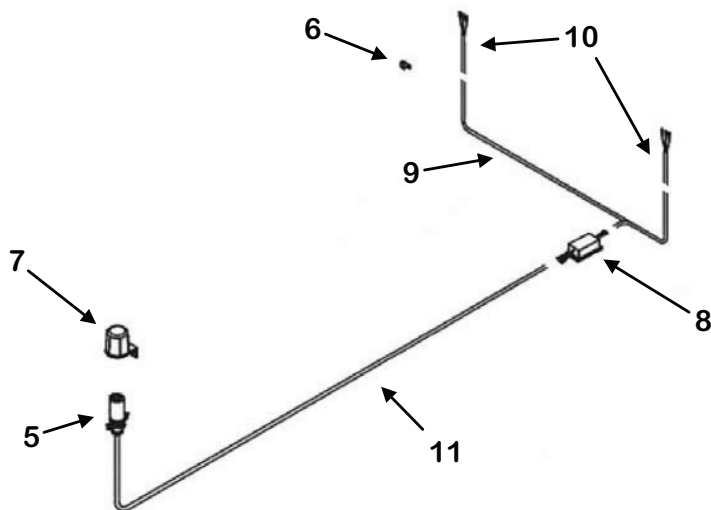
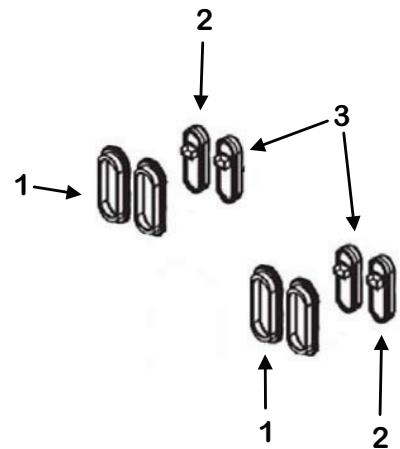
NOTE: Be environmentally friendly and dispose of any waste materials properly. Recycle when appropriate.

ELECTRICAL LIGHTS



4

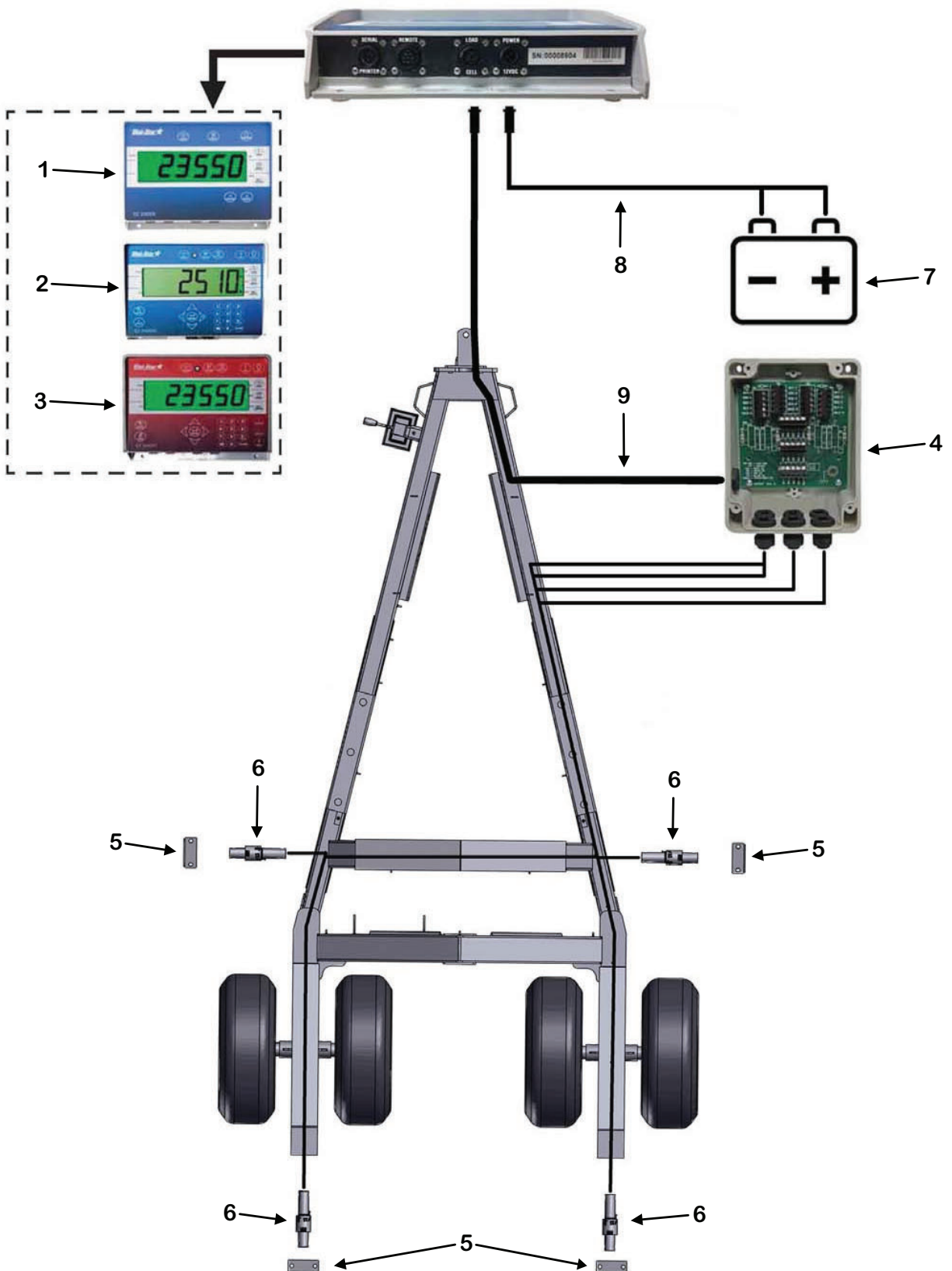
Truck Mount Models Use Red Lamps In Both Positions.



FM-SSM-0001

KEY	PART NUMBER	QTY	DESCRIPTION
1	56-0082	4	6" Oval Grommet
2	56-0081	2/0	6" Oval Amber LED Light
3	56-0115	2/4	6" Oval Red LED Light
4	46-0001-62	1	Caution Tail Light Decal
5	56-0005-2	1	7-Contact Plug End Only
6	56-0008	2	Harness Frame Clip
7	56-0009	1	7-Way "Stor-A-Way" Plug Holder
8	56-0084	1	LED Ag Enhancer Module (Trailer Mounts Only)
9	56-0130-1	1	Y-Harness Less Light Plug Leads
10	56-0130-2	2	Right/Left Light Pigtail Lead
11	56-0213	1	Front Discharge 21.5' LED Light Cord 6-Pin & 7-Pin Connector
	56-0214	1	Side Discharge 19' LED Light Cord 6-Pin & 7-Pin Connector

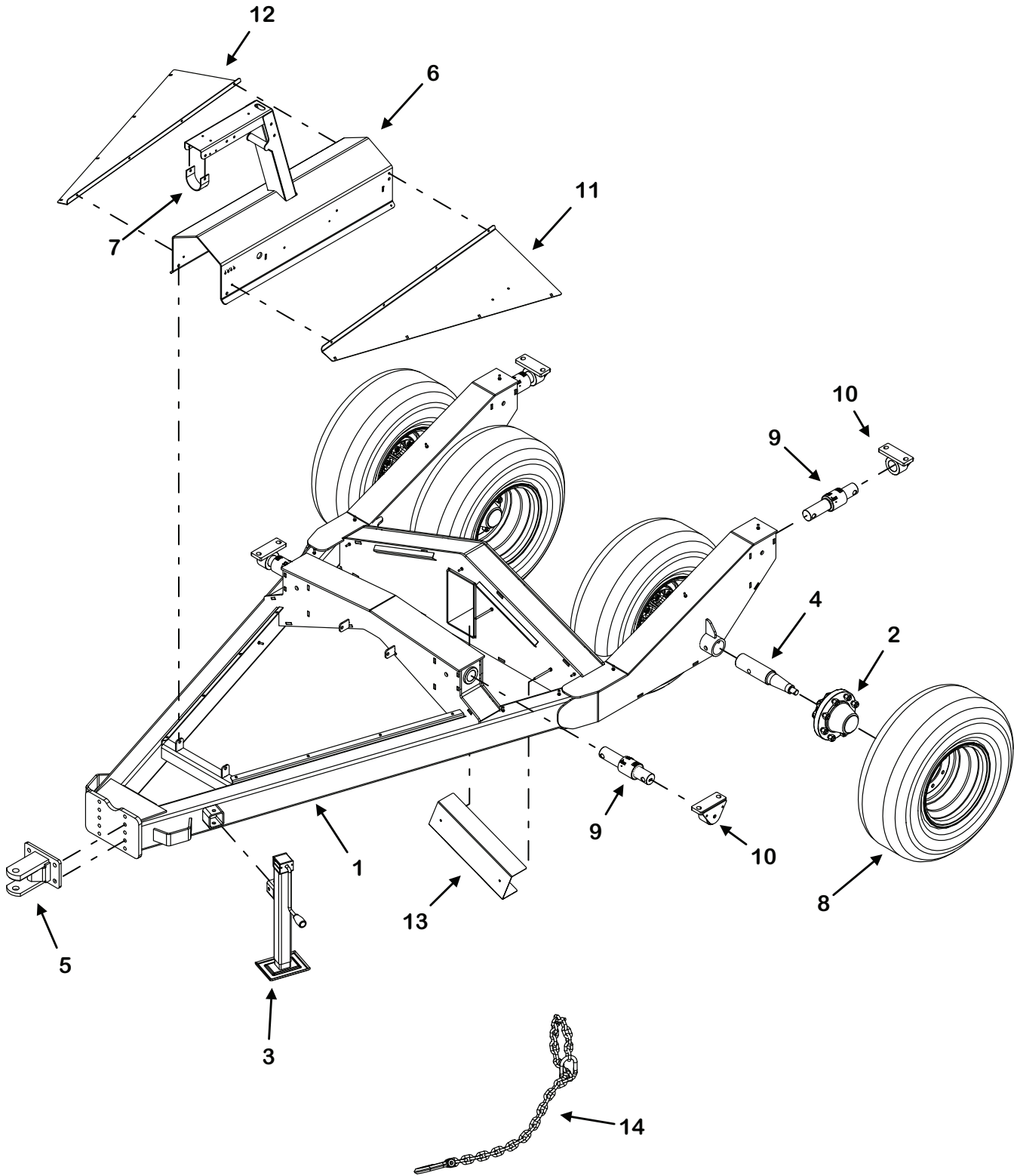
WEIGH BAR WIRING DIAGRAM



FM-SSM-0002

KEY	PART NUMBER	QTY	DESCRIPTION
1	58-0002-407120	1	EZ2500V Scale Indicator Monitor With Serial Port
	58-0002-407094	1	EZ2500V Scale Indicator Monitor
	58-0002-404516	1	EZ2400V Scale Indicator Monitor
2	58-0002-408944	1	EZ3400V Scale Indicator Monitor
3	58-0002-406552	1	EZ3600V Scale Indicator Monitor
4	58-0020	1	6-Point Mobil J-Box
	58-0008	1	6-Point Mobil J-Box With Monitor Cable
5	M9-1-8-0001	4	DB Bar Mount
	881-7510-2.5Z	8	3/4"-10 x 2-1/2" Bolt
6	58-0051	4	Load Cell 2.125" x 12" Prior to SN 17VS(0425202, 0510201)
	58-0051-WT	4	Load Cell 2.125" x 12" SN 17VS(0425202, 0510201) & Later
7	56-0204	1	12V Male Plug Auxiliary Power Cord Assembly
	56-0136	1	3-Pin Auxiliary Power Cord Assembly
	VA-BBS	1	Battery Box Package
8	56-0236	1	Power Cord 25'
9	58-0029	1	Junction Box To Monitor Cable 30'

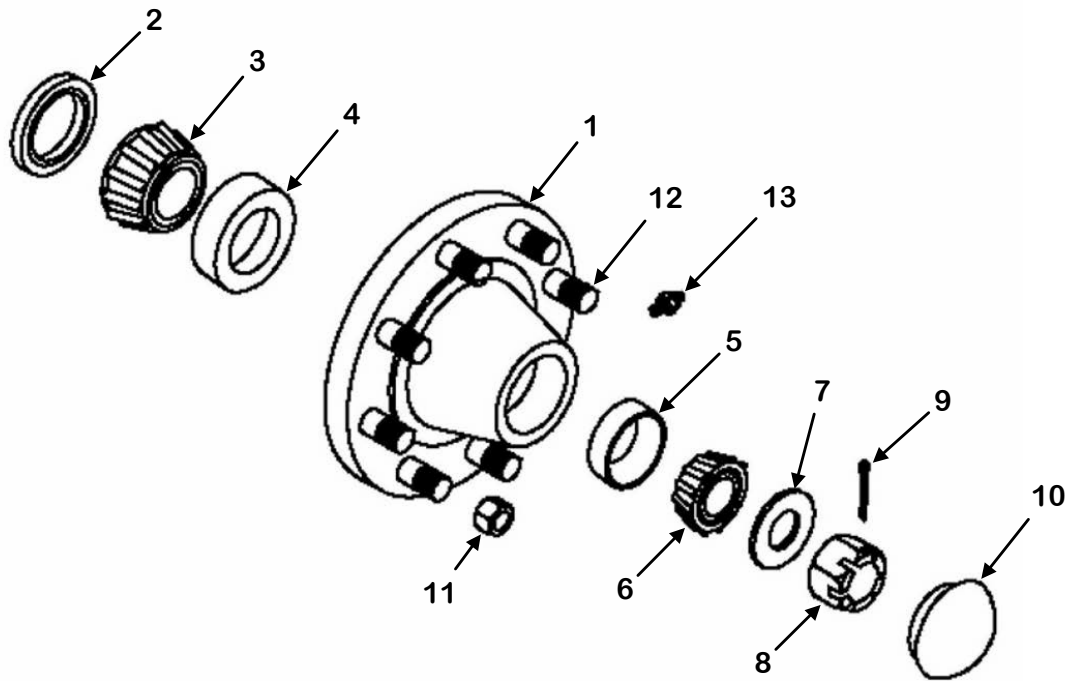
TRAILER



FM-SSM-0003

KEY	PART NUMBER	QTY	DESCRIPTION
1	MS1-4-0005-1	1	Single Axle Trailer Frame Assembly (Side Discharge)
	MS1-4-0002-1	1	Single Axle Trailer Frame Assembly (Front Discharge)
2	See Page 72	4	Hub, Complete Assembly
3	956-3803	1	8,000 # Square Jack Without Mount Tube
4	M1-7-0006-L	4	Spindle, 2.725 x 14.25" With Nut, Washer, Cotter Pin
5	MS1-4-0004	1	Adjustable Hitch Front Plate
	881-7510-2.25Z	4	3/4"-10 x 2-1/4" Bolt
	884-7510-Z	4	3/4"-10 Top Lock Nut
6	MS8-1-4-0001	1	PTO Shroud (Side Discharge)
	M8-1-4-0002	1	PTO Shroud (Front Discharge)
7	M8-1-8-0006-7	1	Rubber Hose Holder
8	Call 1-800-325-9103	4	385/65/22.5 TL Tire, 22.5 x 13 Wheel
9	See Page 68	4	2.125" x 12" Load Cell
10	See Page 68	4	DB Bar Mount
11	MS8-1-4-0002	1	Left Shroud Cover (Side Discharge Only)
12	MS8-1-4-0003	1	Right Shroud Cover (Side Discharge Only)
13	M11-7-0007	1	Load Cell Wire Storage Cover
14	52-0050	1	Safety Chain, 30,000# Capacity

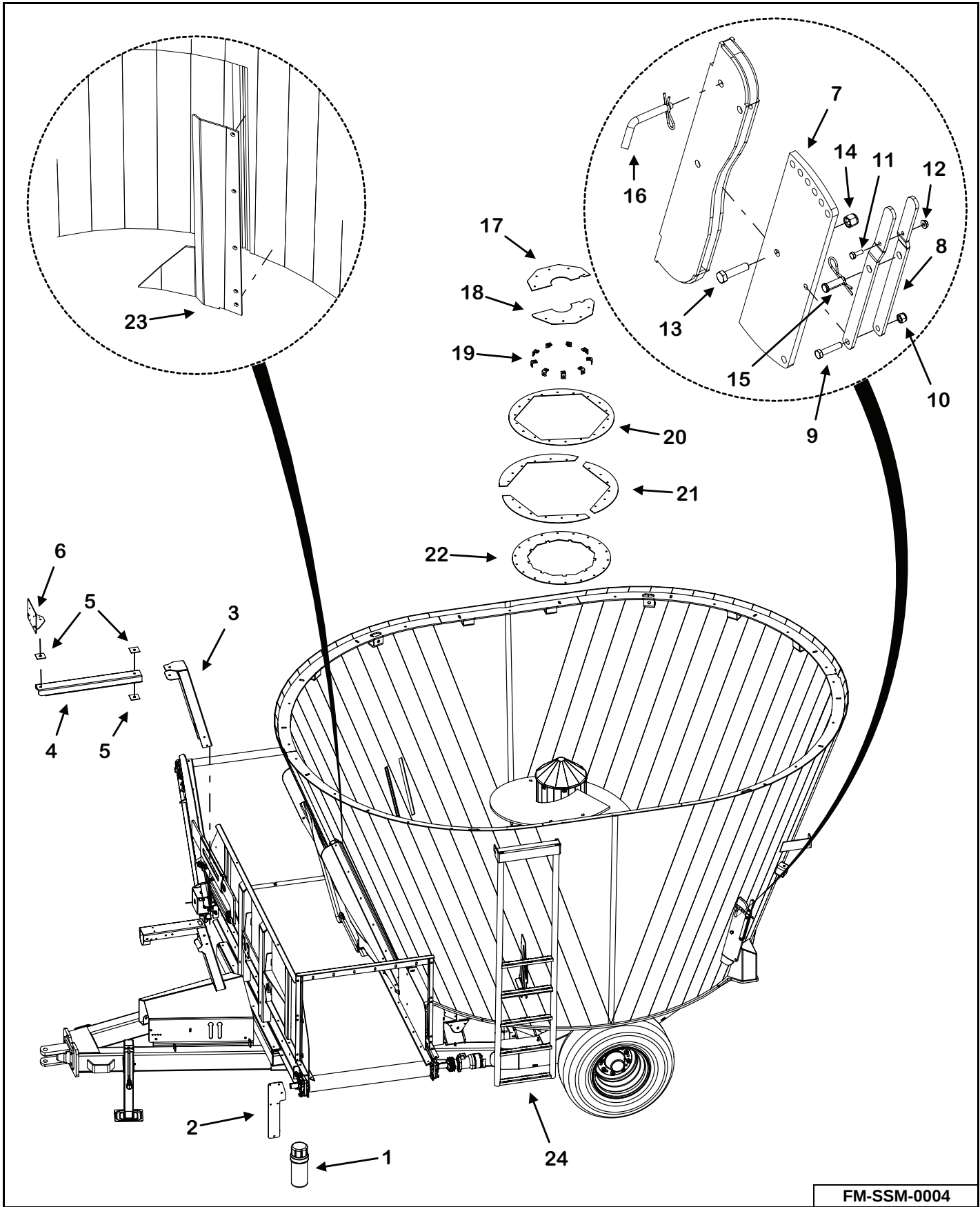
75-0209 HUB ASSEMBLY



75-0209

KEY	PART NUMBER	QTY	DESCRIPTION
0	75-0209	4	Hub, Complete Assembly
1	75-0207-1	1	Hub With Races
2	75-0209-2	1	Grease Seal
3	75-0207-3	1	Inner Wheel Bearing
4	75-0207-4	1	Inner Wheel Race
5	75-0202-4	1	Outer Wheel Race
6	75-0202-3	1	Outer Wheel Bearing
7	75-0205-7-H	1	Washer
8	75-0205-8	1	Nut
9	75-0205-9	1	Cotter Pin
10	75-0205-10	1	Cap
11	75-0205-11-H	8	5/8"-18 Lug Bolt / Lug Nut, Grade 5, Torque 160 ft/lbs
12	75-0207-12	8	5/8"-18 x 2-1/2" Stud Bolt
13	30-0002	1	1/8" NPS Straight Zerk

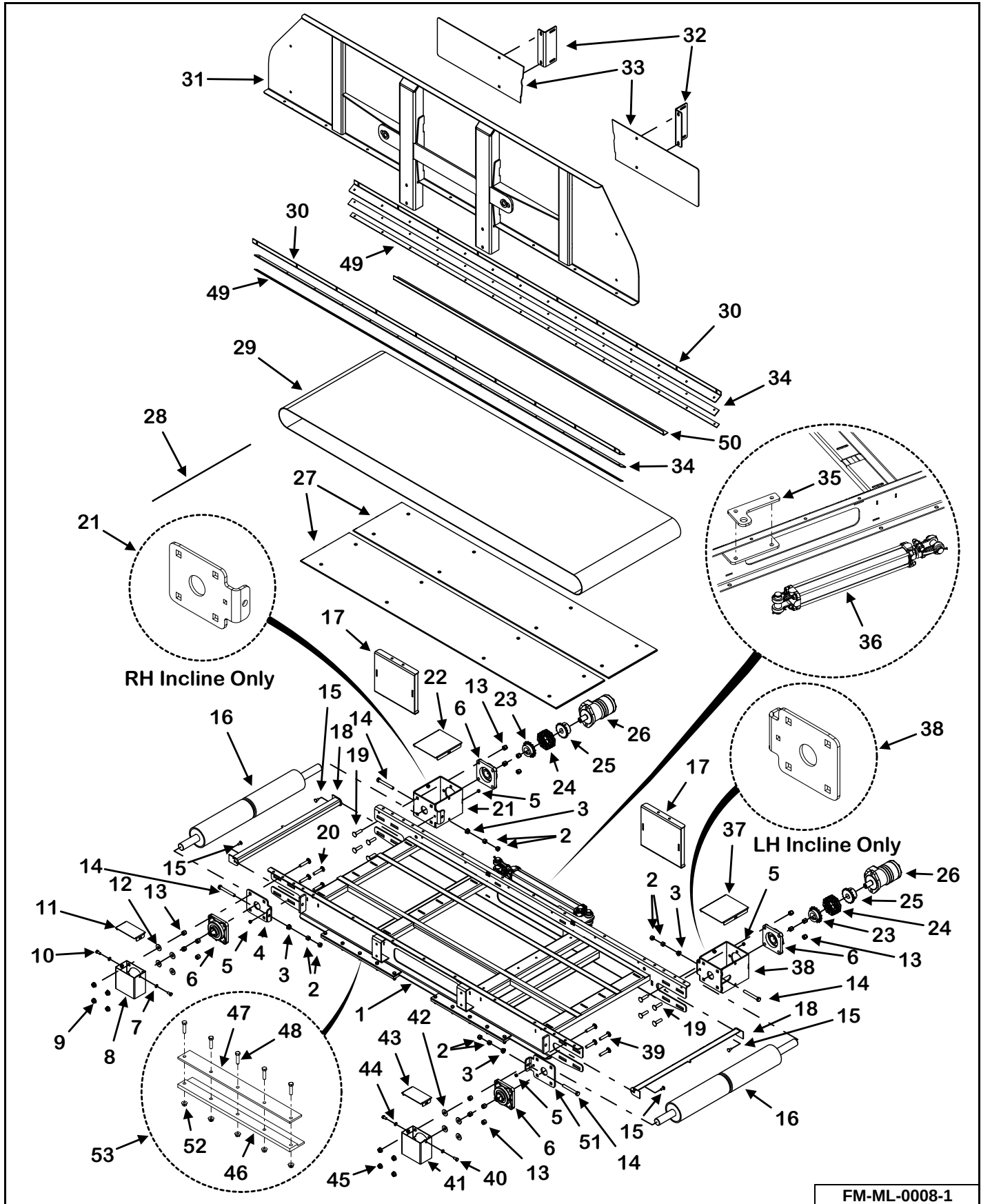
MIXER BODY



FM-SSM-0004

KEY	PART NUMBER	QTY	DESCRIPTION
1	33-0044	1	Manual Holder
2	M8-1-4-0004	1	Manual Holder Mount
3	M9-1-8-0007	1	Scale Mount Extension Weldment
4	M9-1-4-0001	1	Load Display Pivot Arm
5	M9-1-8-0004	3	Scale Arm Rubber Washer
6	M9-1-8-0002	1	Scale Indicator Mount
7	M7-1-8-0002	2	Hay Stop
8	M7-1-8-0003	4	Hay Stop Handle
9	851-3816-1.75Z	2	3/8"-16 x 1-3/4" Machine Bolt
10	815-3816-Z	2	3/8"-16 Nylon Insert Lock Nut
11	851-2520-.75Z	2	1/4"-20 x 3/4" Grade 5 Machine Bolt
12	810-2520-Z	2	1/4" Spin Lock Nut
13	851-5013-2Z	2	1/2"-13 x 2" Grade 5 Machine Bolt
14	851-5013-Z	2	1/2"-13 Nylon Lock Nut
15	32-0042	2	1/2" x 1-1/2" Clevis Pin With Clip
16	32-0043	2	1/2" x 2-1/2" Bent-Pull Hitch Pin W/Cotter Pin
17	MS2-1-4-0004-3	1	Planetary Cover Left Side (Prior to 2024 Model Year)
18	MS2-1-4-0004-4	1	Planetary Cover Right Side (Prior to 2024 Model Year)
19	MS2-1-4-0004-5	9	Planetary Cover Mount Bracket (Prior to 2024 Model Year)
20	VSAM-ASK-KIT	1	425/510 Auger Seal Update Kit Prior to 18VS(0425208,0510212)
	M2-1-8-0035-3	1	Auger Seal Cover
21	VSAM-ASK-KIT	1	425/510 Auger Seal Update Kit Prior to 18VS(0425208,0510212)
	M2-1-8-0035-2	3	Auger Seal
22	VSAM-ASK-KIT	1	425/510 Auger Seal Update Kit Prior to 18VS(0425208,0510212)
	MS2-1-4-0009-1	1	Auger Seal Plate
	851-3816-1Z	18	3/8"-16 x 1" Machine Bolt
	815-3816-Z	18	3/8"-16 Nylon Insert Lock Nut
23	MS6-1-4-0008	1	Front/Rear Door Deflector
	803-3816-1.25Z	5	3/8"-16 x 1-1/4" Flat Head Socket Cap Screw
	815-3816-Z	5	3/8"-16 Nylon Insert Lock Nut
24	See Page 114	1	Ladder Weldment

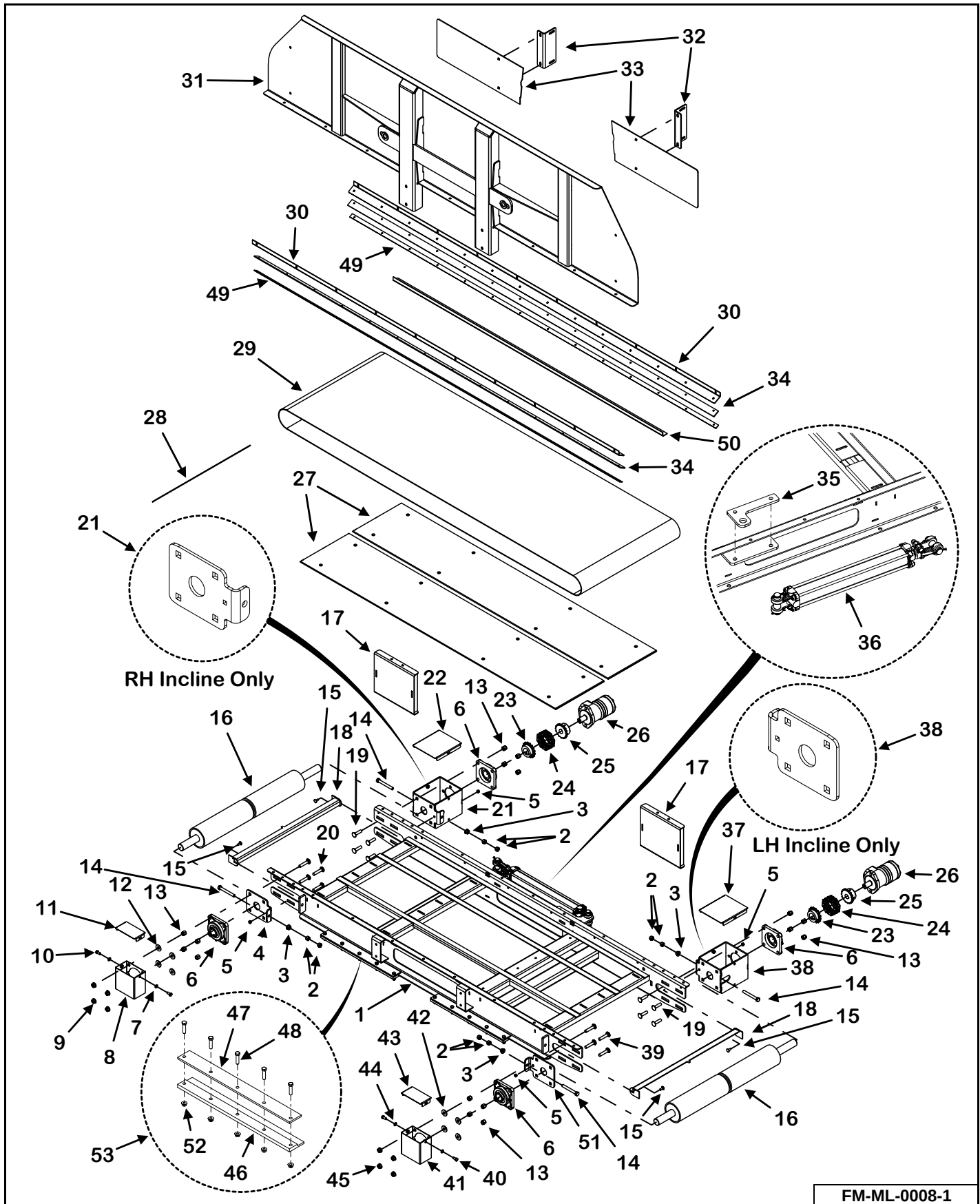
FRONT FLAT & INCLINE BASE BELT CONVEYOR



FM-ML-0008-1

KEY	PART NUMBER	QTY	DESCRIPTION
0	VSAM-FDB-36-2MI	1	2 Motor Front Discharge Flat Belt Conveyor (Incline Ready)
	VSAM-FDBI-3636-L3	1	3 Motor Front LH Discharge Incline Belt Conveyor (36" Incline)
	VSAM-FDBI-3636-R3	1	3 Motor Front RH Discharge Incline Belt Conveyor (36" Incline)
	VSAM-FDBI-3648-L3	1	3 Motor Front LH Discharge Incline Belt Conveyor (48" Incline)
	VSAM-FDBI-3648-R3	1	3 Motor Front RH Discharge Incline Belt Conveyor (48" Incline)
1	M3-1-10-0017-1	1	Incline Base Conveyor Weldment
2	813-5013-Z	8	1/2-13 Nut
3	810-5013-Z	4	1/2" Spin Lock Nut
4	M3-1-5-0044-1	2	Front Conveyor Bearing Mount
5	814-3118-Z	4	5/16-18 Indented Lock Nut
6	14-0070	4	1-1/2" 4-Bolt Bearing Narrow Inner Race
7	822-0038-Z	2	3/8" Split Lock Washer (No Incline, LH Incline)
8	M3-1-8-0047	1	Shaft Cover Weldment (No Incline, LH Incline)
9	810-5013-Z	4	1/2" Spin Lock Nut (No Incline, LH Incline)
10	851-3816-.75Z	2	3/8-16 x 3/4" Machine Bolt (No Incline, LH Incline)
11	M3-1-8-0048	1	Shaft Cover Plate (No Incline, LH Incline)
12	805-0050-Z	4	1/2" Flat Washer (No Incline, LH Incline)
13	815-5013-Z	16	1/2-13 Nylon Lock Nut
14	830-5013-4Z	4	1/2-13 x 4" Tap Bolt Full Threaded
15	850-3118-.75Z	4	5/16-18 x 3/4" Carriage Bolt
16	23-0269	2	Drive Pulley Urethane Lagged
17	M3-1-10-0022	2	Conveyor Shield Weldment (Front Flat Sliding Conveyor Only)
18	M3-1-10-0023	2	Conveyor Pulley Scraper

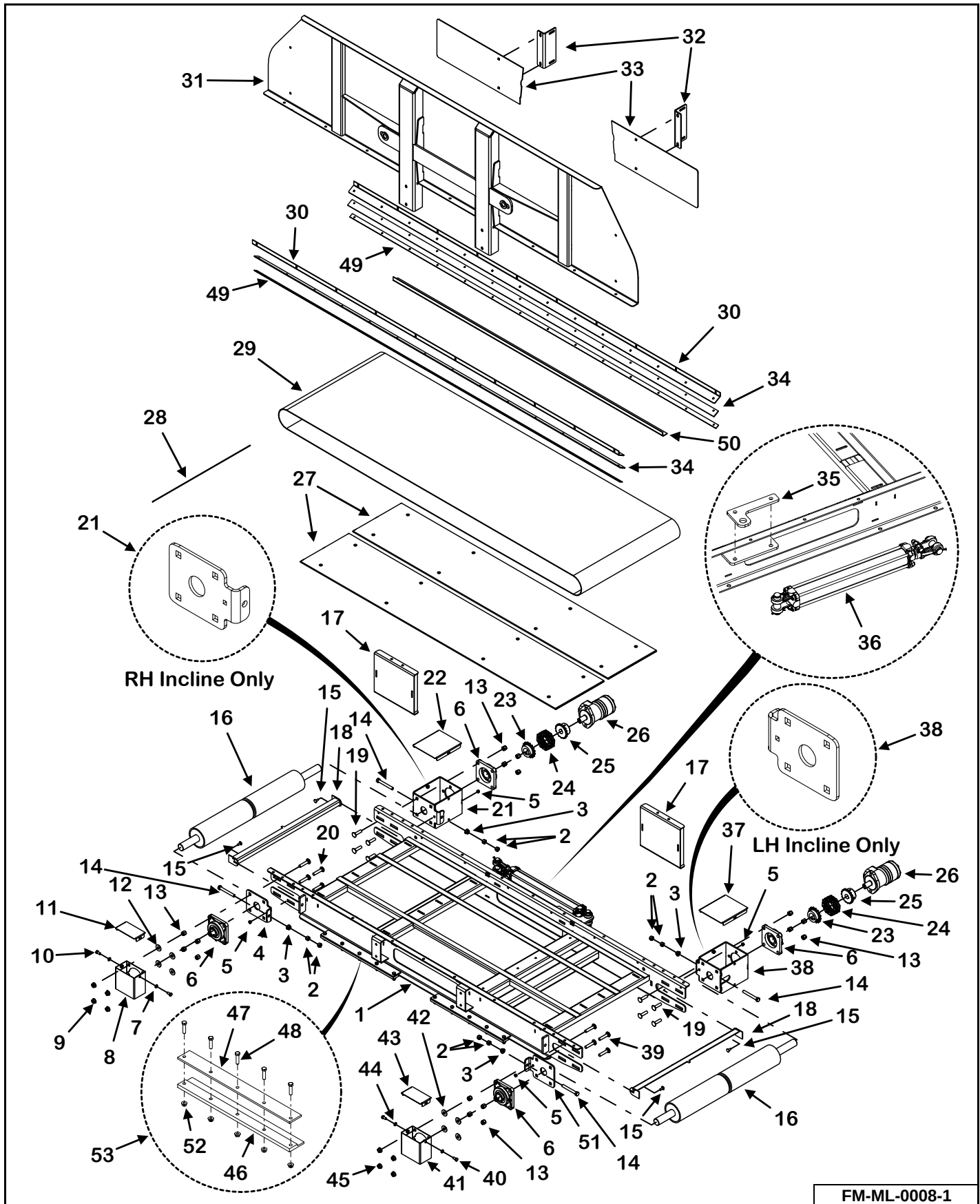
FRONT FLAT & INCLINE BASE BELT CONVEYOR (CONT'D)



FM-ML-0008-1

KEY	PART NUMBER	QTY	DESCRIPTION
19	850-5013-1.75Z	8	1/2"-13 x 1-3/4" Carriage Bolt
20	850-5013-2.25Z	4	1/2"-13 x 2-1/4" Carriage Bolt (No Incline, LH Incline)
	850-5013-1.75Z	4	1/2"-13 x 1-3/4" Carriage Bolt (RH Incline)
21	M3-1-8-0046	1	Front Conveyor Motor Mount Weldment (No Incline, LH Incline)
	M3-1-5-0044-1	1	Front Conveyor Bearing Mount (RH Incline)
22	M3-1-8-0045	1	Chain Coupler Cover Plate (No Incline, LH Incline)
	851-3816-.75Z	2	3/8"-16 x 3/4" Machine Bolt (No Incline, LH Incline)
	822-0038-Z	2	3/8" Split Lock Washer (No Incline, LH Incline)
23	110-50B16-1.50-1	2	Coupler Sprocket
	35-0006	2	Key
24	37-0013-2	2	Coupler Chain
25	37-0013-1	2	Coupler Sprocket
26	See Page 82	2	12.1 Cubic Inch 2-Bolt Motor
	135-2525-1.25-1	2	Key
27	M3-1-10-0019	2	Front Belt Discharge Conveyor Floor
	803-3118-1Z	16	5/16"-18 x 1" Flat Socket Head Cap Screw
	805-0031-Z	16	5/16" Flat Washer
	815-3118-Z	16	5/16"-18 Nylon Insert Lock Nut
28	49-0156-4-AS	1	Conveyor Belt Lacing Pin Kit
29	49-0156-MB	1	Front Conveyor Mini Bite Belt
30	M3-1-10-0017-7	2	Front Conveyor Skirt Bracket
31	M3-1-10-0018	1	Base Conveyor Front Panel Weldment
32	M3-1-8-0028	2	Front Conveyor Shield Mounting Bracket
33	M3-1-10-0009	1	Front Conveyor Shield, Left (Flat Sliding Conveyors)
	M3-1-8-0012	1	Front Conveyor Shield, Left (Front Incline Conveyors)
	M3-1-10-0008	1	Front Conveyor Shield, Right (Flat Sliding Conveyors)
	M3-1-8-0013	1	Front Conveyor Shield, Right (Front Incline Conveyors)
34	49-0336	2	Base Conveyor Skirting
35	M3-1-8-0027	1	Front Conveyor Cylinder Mount (Front Flat Sliding Conveyor Only)
	851-5013-1.75Z	2	1/2"-13 x 1-3/4" Machine Bolt (Front Flat Sliding Conveyor Only)
	810-5013-Z	2	1/2" Spin Lock Nut (Front Flat Sliding Conveyor Only)
36	See Page 82	1	2" x 16" x 1-1/8" Hydraulic Cylinder (Front Flat Sliding Conveyor Only)

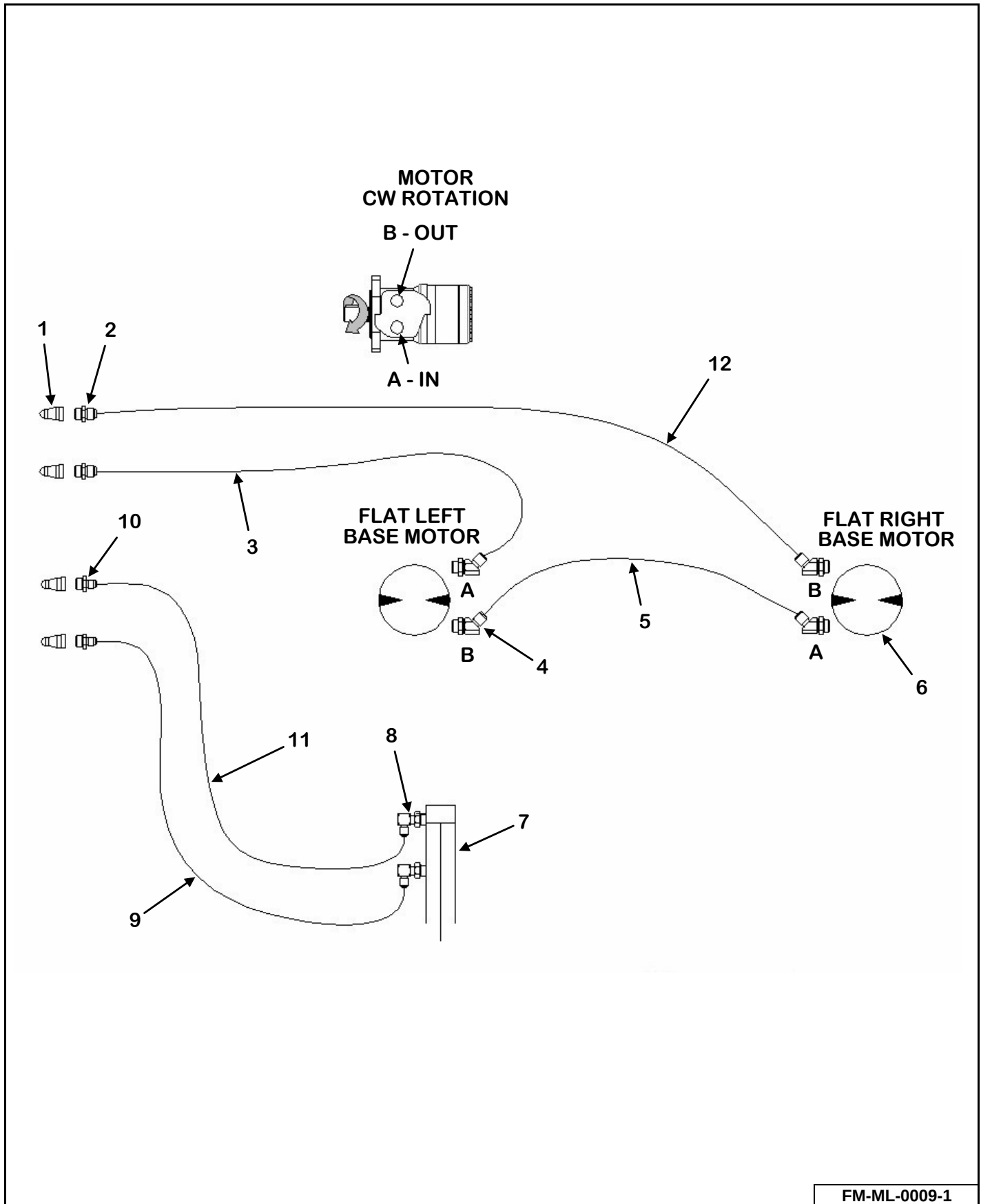
FRONT FLAT & INCLINE BASE BELT CONVEYOR (CONT'D)



FM-ML-0008-1

KEY	PART NUMBER	QTY	DESCRIPTION
37	M3-1-8-0045	1	Chain Coupler Cover Plate (No Incline, RH Incline)
	851-3816-.75Z	2	3/8"-16 x 3/4" Machine Bolt (No Incline, RH Incline)
	822-0038-Z	2	3/8" Split Lock Washer (No Incline, RH Incline)
38	M3-1-8-0046	1	Front Conveyor Motor Mount Weldment (No Incline, RH Incline)
	M3-1-5-0044-1	1	Front Conveyor Bearing Mount (LH Incline)
39	850-5013-2.25Z	4	1/2"-13 x 2-1/4" Carriage Bolt (No Incline, RH Incline)
	850-5013-1.75Z	4	1/2"-13 x 1-3/4" Carriage Bolt (LH Incline)
40	851-3816-.75Z	2	3/8"-16 x 3/4" Machine Bolt (No Incline, RH Incline)
41	M3-1-8-0047	1	Shaft Cover Weldment (No Incline, RH Incline)
42	805-0050-Z	4	1/2" Flat Washer (No Incline, RH Incline)
43	M3-1-8-0048	1	Shaft Cover Plate (No Incline, RH Incline)
44	822-0038-Z	2	3/8" Split Lock Washer (No Incline, RH Incline)
45	810-5013-Z	4	1/2" Spin Lock Nut (No Incline, RH Incline)
46	VAL-CSK	1	Conveyor Slide Update Kit (Flat Sliding Conveyor Only) (Prior to 2020 Model Year)
	M3-1-8-0053	4	Conveyor Bottom Slide (Flat Sliding Conveyor Only) (2020 Model Year & Later)
47	VAL-CSK	1	Conveyor Slide Update Kit (Flat Sliding Conveyor Only) (Prior to 2020 Model Year)
	M3-1-8-0052	4	Conveyor Slide Cap (Flat Sliding Conveyor Only) (2020 Model Year & Later)
48	851-3816-1.5Z	20	3/8"-16 x 1-1/2" Hex Cap Screw
49	M3-1-10-0017-8	2	Front Conveyor Skirt Backer
50	M3-1-10-0017-4	1	Floor Seal
51	M3-1-5-0044-1	1	Front Conveyor Bearing Mount
52	810-3816-Z	20	3/8"-16 Spin Lock Nut
53	VAL-CSK	1	Conveyor Slide Update Kit (Flat Sliding Conveyor Only) (Prior to 2020 Model Year)
	M3-1-8-0053-AS	4	Conveyor Bottom Slide With Cap & Hardware (2020 Model Year & Later)

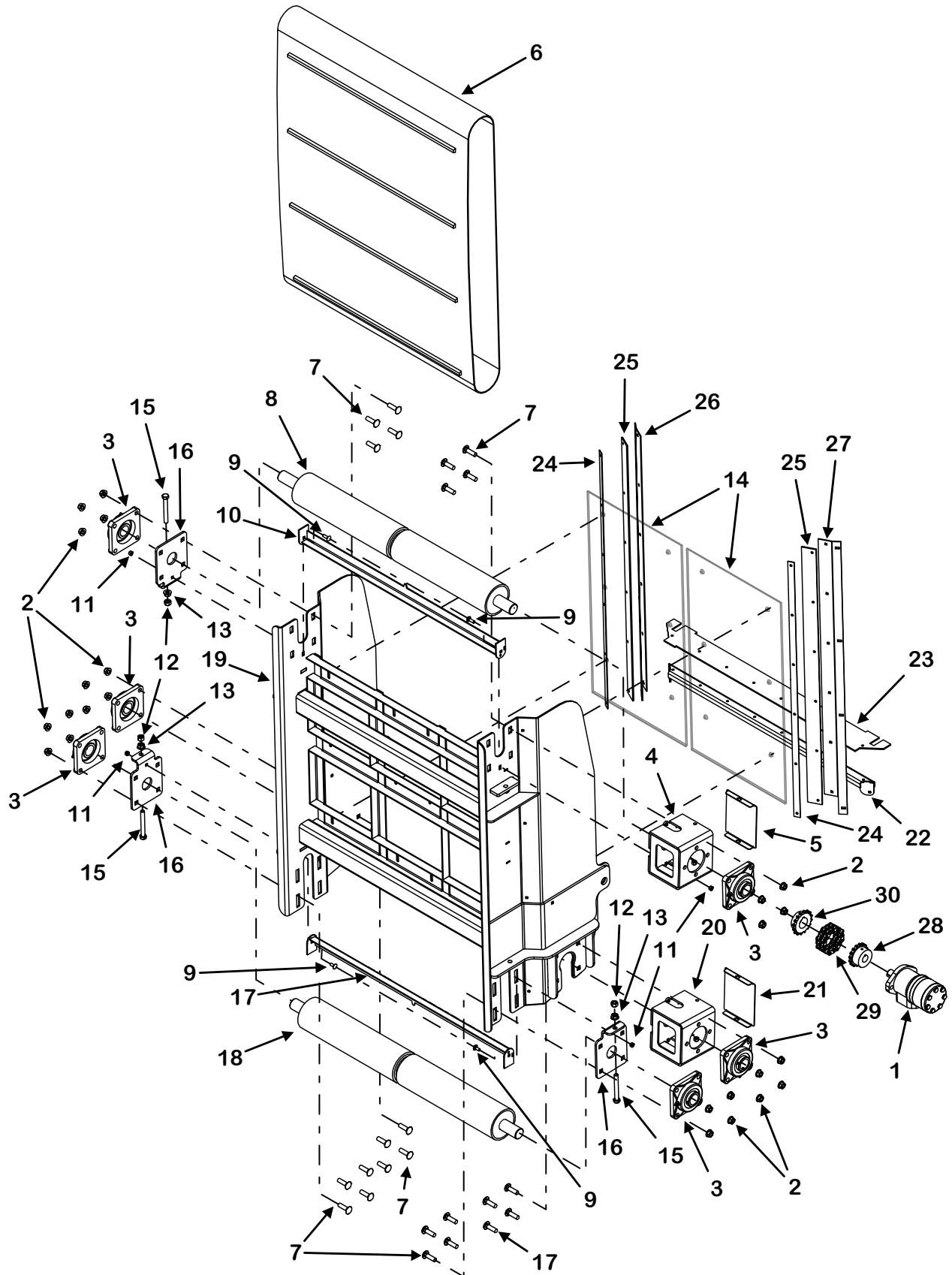
FRONT FLAT BELT CONVEYOR HYDRAULIC SCHEMATIC



FM-ML-0009-1

KEY	PART NUMBER	QTY	DESCRIPTION
1	155-8010-15	4	#8 ORB Male Tip 1/2" Body Size
2	155-6400-8-8	2	#8 JIC Male, #8 ORB Male Straight Connector
3	155-08R17-208-1	2	1/2" x 208" Hose Assembly
4	155-6802-8-10	4	#8 JIC Male, #10 ORB Male Adjustable 45°
5	155-08R17-159-1	1	1/2" x 159" Hose Assembly
6	155-WR-12.1-1	2	12.1 Cubic Inch 2-Bolt Motor
	155-WR-SK-1	AR	Motor Seal Kit
7	155-2-16-1.125-2	1	2" x 16" x 1-1/8" Hydraulic Cylinder, Modified Port
	155-2-1.125-1-DSK	1	Cylinder Seal Kit
8	155-6801-6-8	2	#6 JIC Male, #8 ORB Male Adjustable 90°
9	155-04-185-1	2	1/4" x 185" Hose Assembly
10	155-6400-6-8	2	#6 JIC Male, #8 ORB Male Straight Connector

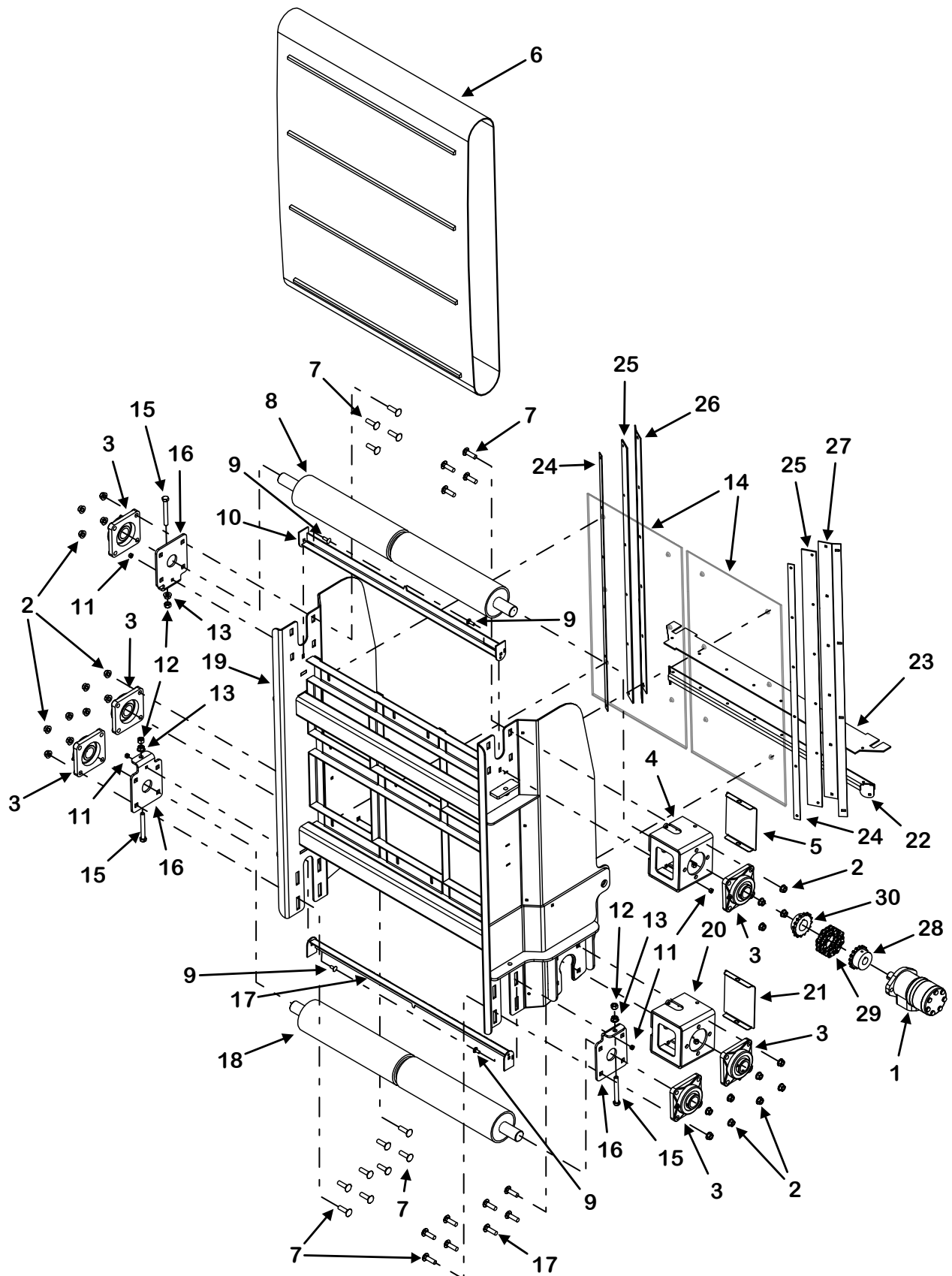
FRONT INCLINE BELT CONVEYOR



FM-ML-0010-1

KEY	PART NUMBER	QTY	DESCRIPTION
0	VSAM-FDB-LI36K	1	36" Front LH Belt Conveyor, Incline Section Only Kit
	VSAM-FDB-RI36K	1	36" Front RH Belt Conveyor, Incline Section Only Kit
	VSAM-FDB-LI48K	1	48" Front LH Belt Conveyor, Incline Section Only Kit
	VSAM-FDB-RI48K	1	48" Front RH Belt Conveyor, Incline Section Only Kit
1	See Page 88	1	7.9 Cubic Inch 2-Bolt Motor
2	810-5013-Z	24	1/2" Spin Lock Nut
3	14-0070	6	1-1/2" 4-Bolt Bearing Narrow Inner Race
4	M3-1-5-0049	1	Conveyor Motor Mount Weldment
5	M3-1-8-0006	1	Coupler Cover Plate
	851-3816-.75Z	2	3/8"-16 x 3/4" Machine Bolt
	822-0038-Z	2	3/8" Split Lock Washer
6	49-0168-MB	1	36" Incline Mini Bite Belt
	49-0195-MB	1	48" Incline Mini Bite Belt
	49-0156-6-AS	1	Conveyor Belt Lacing Pin Kit
7	850-5013-1.75Z	20	1/2"-13 x 1-3/4" Carriage Bolt
8	23-0251	1	Drive Pulley Urethane Lagged
9	850-3118-1Z	4	5/16"-18 x 1" Carriage Bolt
10	M3-1-8-0017	1	Conveyor Drive Pulley Scraper Prior to SN 17VS (0425205,0510203)
	M3-1-8-0016	1	Conveyor Idler Pulley Scraper Prior to SN 17VS (0425205, 0510203)
	M3-1-10-0023	2	Conveyor Pulley Scraper SN 17VS (0425205, 0510203) & Later
11	814-3118-Z	4	5/16"-18 Indented Lock Nut
12	813-5013-Z	3	1/2"-13 Nut
13	810-5013-Z	3	1/2" Spin Lock Nut
14	M3-1-4-0036	2	36" Incline Floor
	M3-1-4-0048	2	48" Incline Floor
15	830-5013-4Z	3	1/2"-13 x 4" Tap Bolt Full Threaded

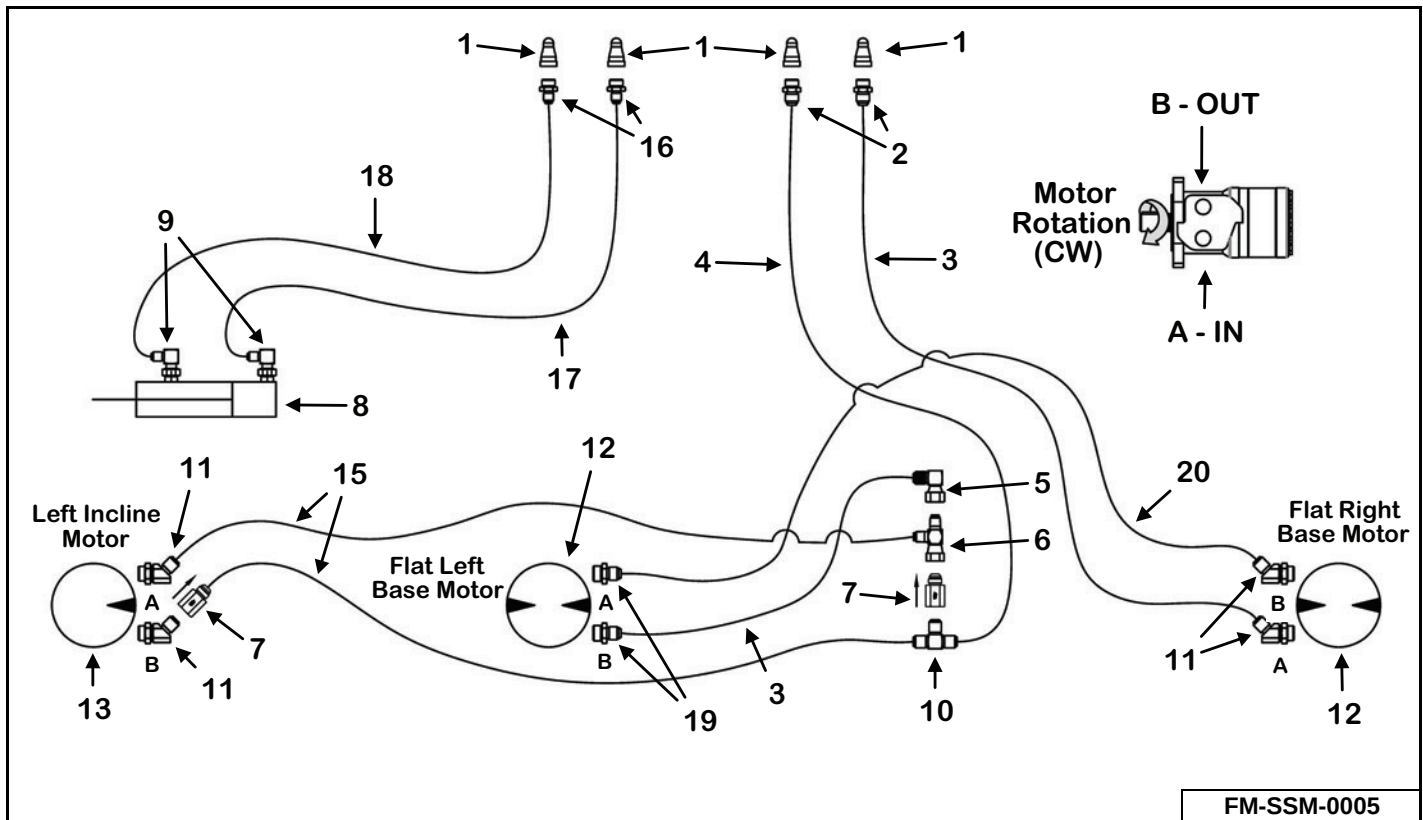
FRONT INCLINE BELT CONVEYOR (CONT'D)



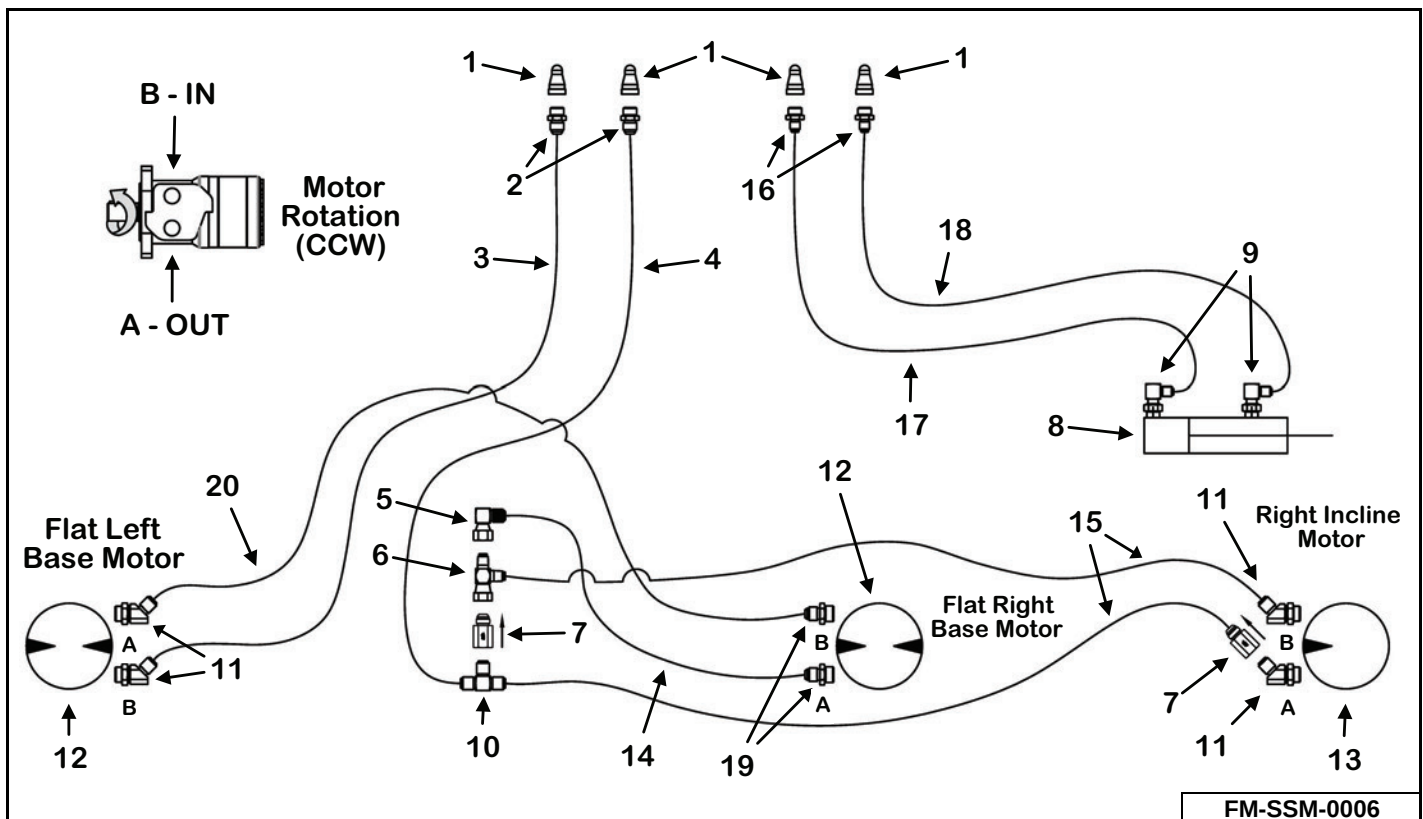
FM-ML-0010-1

KEY	PART NUMBER	QTY	DESCRIPTION
16	M3-1-5-0044-1	3	Front Conveyor Bearing Mount
17	850-5013-2Z	4	1/2"-13 x 2" Carriage Bolt
18	23-0257	1	Idler Pulley
19	M3-1-5-0041-1	1	36" Front Incline Belt Conveyor, Incline Frame Weldment
	M3-1-5-0051-1	1	48" Front Incline Belt Conveyor, Incline Frame Weldment
20	M3-1-8-0034	1	Conveyor Motor Mount Weldment
21	M3-1-8-0006	1	Coupler Cover Plate
22	M3-1-5-0041-3	1	Incline Belt Conveyor Seal Weldment
23	49-0241	1	Incline Belt Conveyor Seal
24	VA-ICS-36	1	36" Incline Skirt Seal Kit Prior to SN 19VS(0425203,0510205)
	M3-1-5-0041-10	2	36" Incline Skirt Backer SN 19VS(0425203,0510205) & Later
	VA-ICS-48	1	48" Incline Skirt Seal Kit Prior to SN 19VS(0425203,0510205)
	M3-1-5-0051-8	2	48" Incline Skirt Backer SN 19VS(0425203,0510205) & Later
25	VA-ICS-36	1	36" Incline Skirt Seal Kit Prior to SN 19VS(0425203,0510205)
	49-0348	2	36" Incline Side Skirting SN 19VS(0425203,0510205) & Later
	VA-ICS-48	1	48" Incline Skirt Seal Kit Prior to SN 19VS(0425203,0510205)
	49-0346	2	48" Incline Side Skirting SN 19VS(0425203,0510205) & Later
26	VA-ICS-36	1	36" Incline Skirt Seal Kit Prior to SN 19VS(0425203,0510205)
	M3-1-5-0041-9	1	36" Incline Side Skirt Bracket SN 19VS(0425203,0510205) & Later
	VA-ICS-48	1	48" Incline Skirt Seal Kit Prior to SN 19VS(0425203,0510205)
	M3-1-5-0051-7	1	48" Incline Side Skirt Bracket SN 19VS(0425203,0510205) & Later
27	VA-ICS-36	1	36" Incline Skirt Seal Kit Prior to SN 19VS(0425203,0510205)
	M3-1-5-0041-8	1	36" Incline Side Skirt Bracket SN 19VS(0425203,0510205) & Later
	VA-ICS-48	1	48" Incline Skirt Seal Kit Prior to SN 19VS(0425203,0510205)
	M3-1-5-0051-6	1	48" Incline Side Skirt Bracket SN 19VS(0425203,0510205) & Later
28	37-0013-1	1	Coupler Sprocket
29	37-0013-2	1	Coupler Chain
30	110-50B16-1.50-1	1	Coupler Sprocket
	35-0006	1	Key

FRONT LEFT INCLINE BELT CONVEYOR HYDRAULIC SCHEMATIC

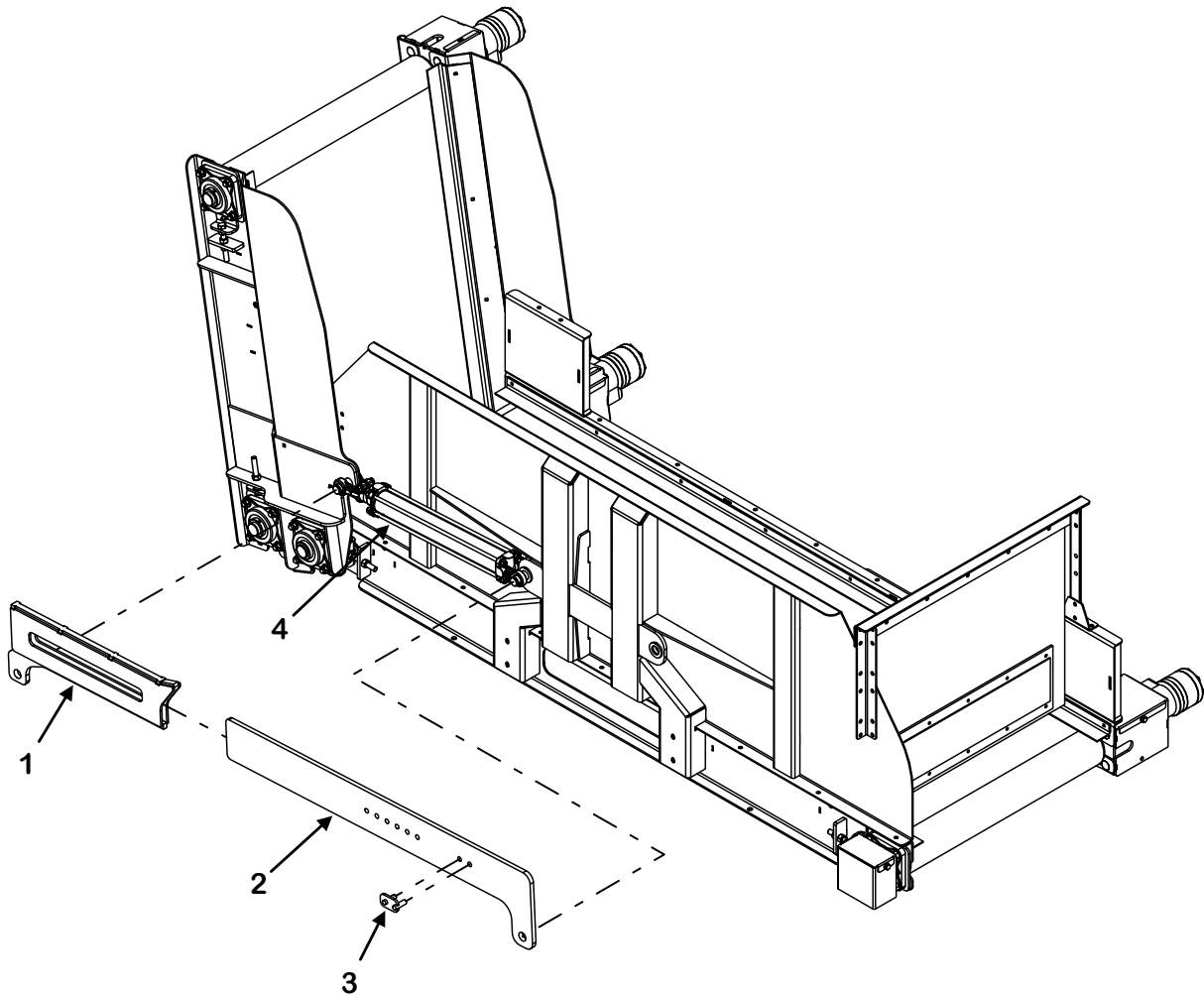


FRONT RIGHT INCLINE BELT CONVEYOR HYDRAULIC SCHEMATIC



KEY	PART NUMBER	QTY	DESCRIPTION
1	155-8010-15	4	#8 ORB Male Tip 1/2" Body Size
2	155-6400-8-8	2	#8 JIC Male, #8 ORB Male Straight Connector
3	155-08R17-208-1	1	1/2" x 208" Hose Assembly
4	155-08R17-189-1	1	1/2" x 189" Hose Assembly
5	155-6500-08-08	1	#8 JIC Male, #8 JIC Female Swivel 90°
6	155-6602-08-08-08	1	#8 MJ x #8 FJS x #8 MJ Tee
7	155-CV-8-1	2	Check Valve
8	155-2-16-1.125-2	1	2" x 16" x 1-1/8" Hydraulic Cylinder
	155-2-1.125-1-DSK	1	Cylinder Seal Kit
9	155-6801-6-8-55	2	#6 x #8 90° Adjustable Elbow with 0.055" Orifice
10	155-2603-08-08-08	1	#8 x #8 x #8 JIC Male Tube Tee
11	155-6802-8-10	4	#8 JIC Male, #10 ORB Male Adjustable 45°
12	155-WR-12.1-1	2	12.1 Cubic Inch 2-Bolt Motor
	155-WR-SK-1	AR	Motor Seal Kit
13	155-WR-7.9-1	1	7.9 Cubic Inch 2-Bolt Motor
	155-WR-SK-1	AR	Motor Seal Kit
14	155-08R17-57-1	1	1/2" x 57" Hose Assembly
15	155-08R17-97-1	2	1/2" x 109" Hose Assembly (36" Incline)
	155-08R17-109-1	2	1/2" x 87" Hose Assembly (48" Incline)
16	155-6400-6-8	2	#6 x JIC Male Tube #8 ORB Male Straight Connector
17	155-04-102-1	1	1/4" x 102" Hose Assembly
18	155-04-121-1	1	1/4" x 121" Hose Assembly
19	155-6400-08-10	1	#8 JIC Male, #10 ORB Male Straight Connector
20	155-08R17-109-1	1	1/2" x 109" Hose Assembly

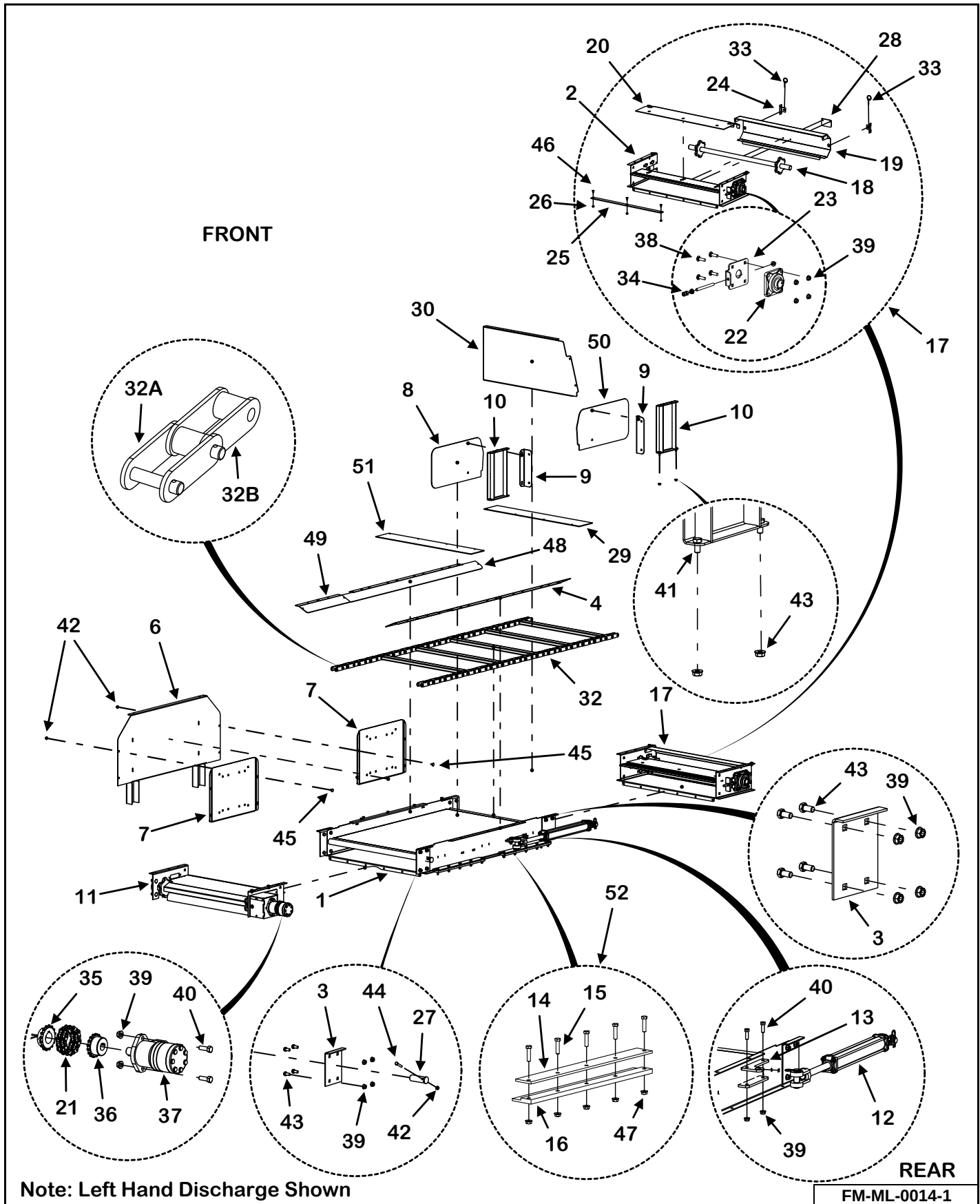
FRONT INCLINE BELT CONVEYOR STOP



FM-ML-0013-1

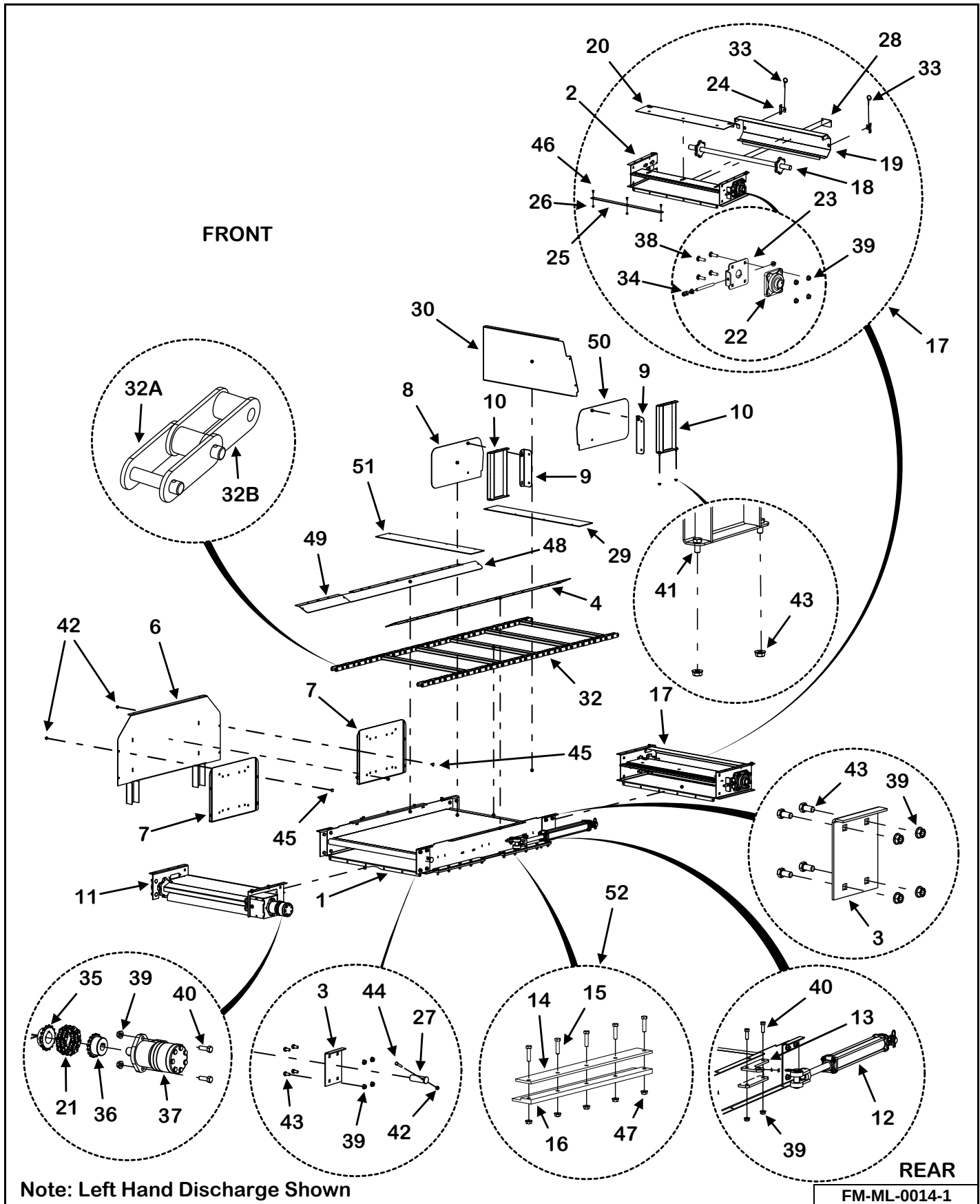
KEY	PART NUMBER	QTY	DESCRIPTION
0	VA-IBCS	1	Incline Belt Conveyor Stop
1	M3-1-5-0070	1	Incline Conveyor Stop Slider Weldment
2	M3-1-5-0052	1	Incline Conveyor Stop Bar
3	M3-1-5-0055	1	Belt Conveyor Stop Weldment
	32-0019	1	Hair Spring Cotter Pin
4	See Page 88	1	2" x 16" x 1-1/8" Hydraulic Cylinder

FRONT FLAT & INCLINE BASE CHAIN CONVEYOR ASSEMBLY



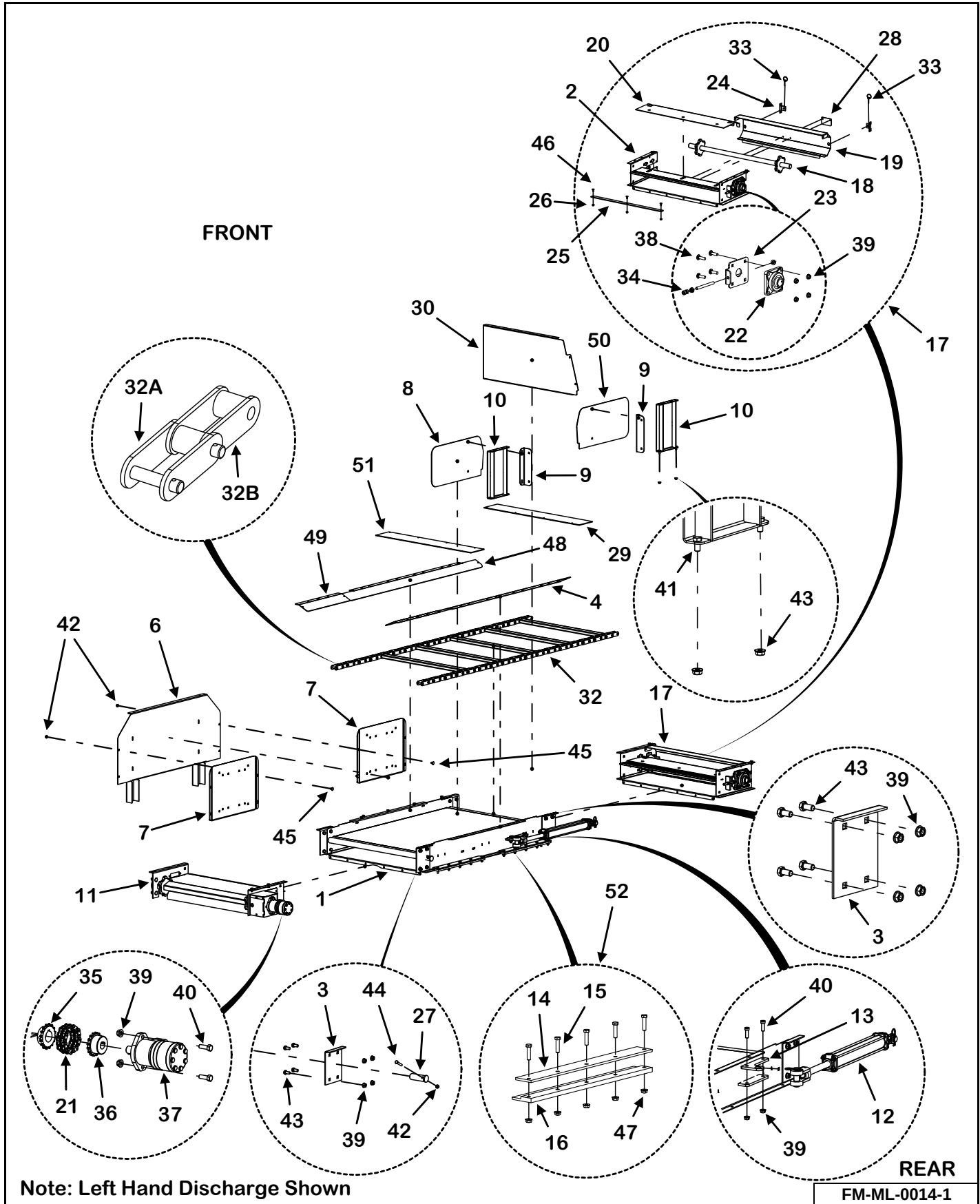
KEY	PART NUMBER	QTY	DESCRIPTION
0	VSAM-DC-36-F-L	1	Left Discharge Front Flat Sliding Chain Conveyor Complete Assembly
	VSAM-DC-36-F-R	1	Right Discharge Front Flat Sliding Chain Conveyor Complete Assembly
	VSAM-DCI-36-24-F-L	1	24" Left Discharge Front Incline Chain Conveyor Complete Assembly
	VSAM-DCI-36-24-F-R	1	24" Right Discharge Front Incline Chain Conveyor Complete Assembly
	VSAM-DCI-36-36-F-L	1	36" Left Discharge Front Incline Chain Conveyor Complete Assembly
	VSAM-DCI-36-36-F-R	1	36" Right Discharge Front Incline Chain Conveyor Complete Assembly
	VSAM-DCI-36-48-F-L	1	48" Left Discharge Front Incline Chain Conveyor Complete Assembly
	VSAM-DCI-36-48-F-R	1	48" Right Discharge Front Incline Chain Conveyor Complete Assembly
	VSAM-DCI-36-60-F-L	1	60" Left Discharge Front Incline Chain Conveyor Complete Assembly
	VSAM-DCI-36-60-F-R	1	60" Right Discharge Front Incline Chain Conveyor Complete Assembly
1	M3-1-10-0003	1	Front Conveyor-Center Section Weldment, Flat
2	M3-1-5-0002-1	1	Front Conveyor Panel Weldment
3	M3-1-7-0014	4	Front Conveyor Connecting Plate
4	M3-1-10-0005	1	Conveyor Chain Cover, Flat (LH Discharge-Rear, RH Discharge Front)
5	M3-1-5-0012	1	Conveyor Chain Cover, Flat (LH Discharge-Rear, RH Discharge-Front)
6	M3-1-10-0004	1	Front Conveyor Panel Weldment
7	M3-1-5-0010	2	Front Conveyor Panel
8	MS3-1-4-0005	1	Front Conveyor Shield, Flat
	MS3-1-4-0003	1	Front Conveyor Shield, Incline (Left & Right Discharge)
9	M3-1-8-0028	2	Front Shield Mounting Bracket
10	M3-1-10-0010	2	Conveyor Shield Assembly
11	See Page 98	1	Front Flat & Incline Conveyor Assembly
12	See Page 100	1	Hydraulic Cylinder
	33-0309	1	Cylinder Pin Spacer, Flat & Incline
	MS2-1-4-0008	1	Cylinder Mount Weldment (Incline Only)
13	M3-1-8-0027	1	Front Conveyor Cylinder Mount (Flat Only)
14	VAL-CSK	1	Conveyor Slide Update Kit (Flat Sliding Conveyor Only) Prior to SN 20VS(425201, 510201)
	M3-1-8-0052	4	Conveyor Slide Cap (Flat Sliding Conveyor Only) SN 20VS(425201, 510201) & Later
15	851-3816-1.5Z	20	3/8"-16 x 1-1/2" Hex Cap Screw
16	VAL-CSK	1	Conveyor Slide Update Kit (Flat Sliding Conveyor Only) Prior to SN 20VS(425201, 510201)
	M3-1-8-0053	4	Conveyor Bottom Slide (Flat Sliding Conveyor Only) SSN 20VS(425201, 510201) & Later

FRONT FLAT & INCLINE BASE CHAIN CONVEYOR ASSEMBLY (CONT'D)



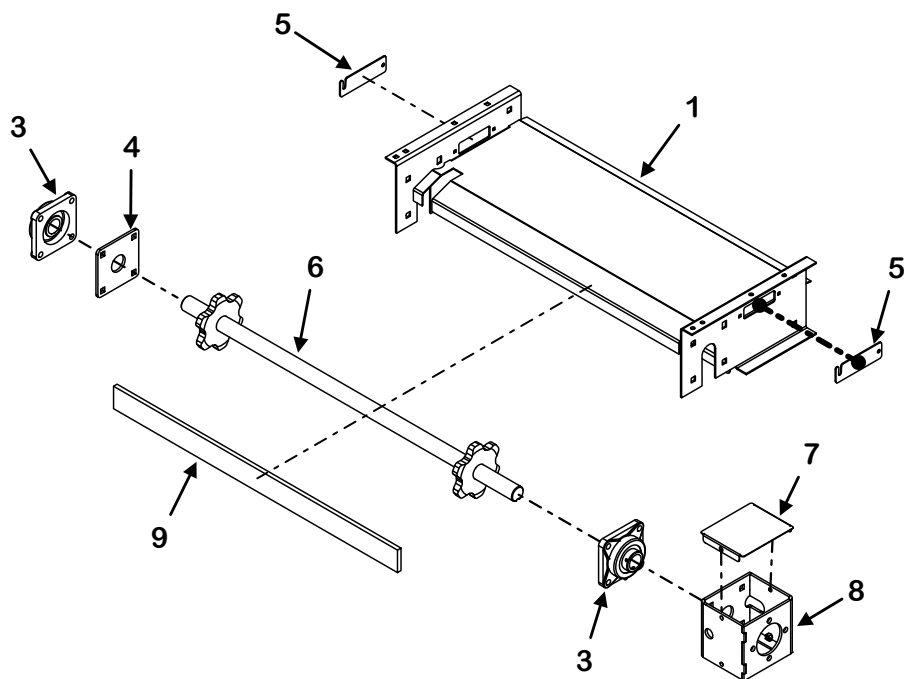
KEY	PART NUMBER	QTY	DESCRIPTION
17	M3-1-5-0002	1	Front Conveyor Extension Assembly
18	23-0255	1	Conveyor Idler Shaft Assembly
19	M3-1-7-0005-1-AS	1	Conveyor Extension Chain Guard
	M3-1-7-0005-3	2	Conveyor Clean-Out Door Washer
20	M3-1-7-0013	1	Extension Sprocket Cover
21	37-0013-2	1	Unit Coupler Chain #50 16 Double W/Connector
22	14-0070	4	1-1/2" 4 Bolt Bearing
23	M3-1-8-0002	2	Front Conveyor Bearing Mount
24	M3-1-7-0034	2	Conveyor Extension Cover Latch
25	M3-1-4-0029	1	36" Extension Adjustment Bracket Weldment
26	813-3118	3	5/16"-18 Hex Nut Plain
27	M3-1-5-0004-2	2	Hinge Pin, Incline
28	M3-1-7-0005-2	1	Conveyor Extension Cover Handle
29	49-0184	1	Front Left Discharge Conveyor Chain Cover, Incline
30	M3-1-10-0001	1	Conveyor Cross Panel – Incline
31	830-5013-4Z	2	Tap Bolt, 1/2"-13 x 4"
32	11-0506	1	Front Discharge, 36" Flat Conveyor 81x Chain
32A	11-0272-4	AR	81X Connector Link
32B	11-0272-5	AR	81X Offset Link
33	823-0003	2	Lynch Pin 3/16" x 1-1/4"
34	813-5013-Z	4	1/2"-13 Nut

FRONT FLAT & INCLINE BASE CHAIN CONVEYOR ASSEMBLY (CONT'D)



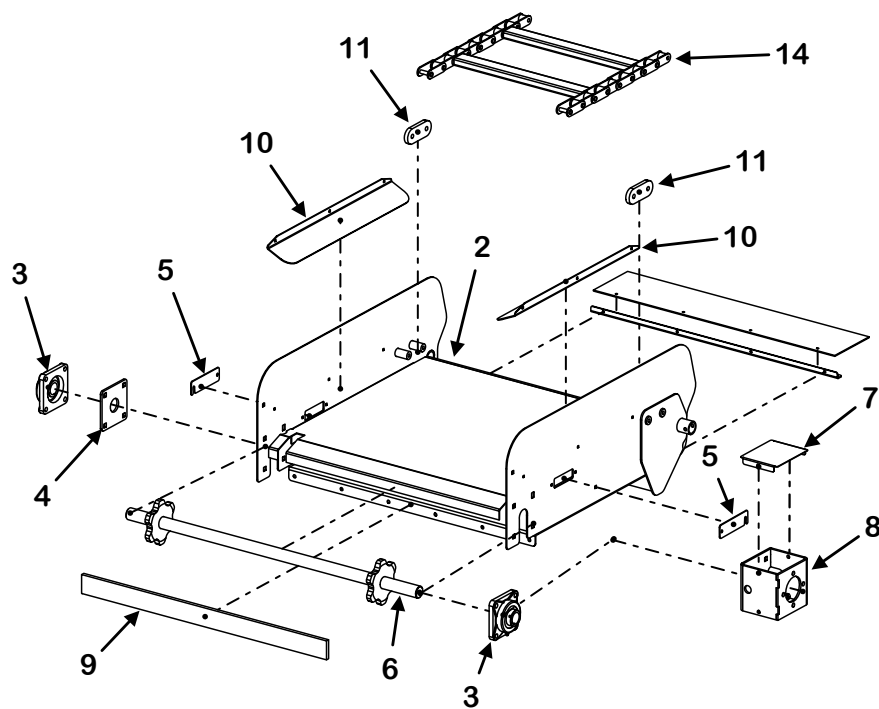
KEY	PART NUMBER	QTY	DESCRIPTION
35	110-50B16-1.50-1	1	Chain Coupler Sprocket 1.5 Bore x .375" Keyway
36	37-0013-1	1	Unit Coupler 1" Bore 1/4" Keyway
	135-2525-1.25-1	1	1/4" x 1/4" x 1-1/4" Key
37	See Page 100	1	12.1 Cubic Inch 2-Bolt Motor
38	850-5013-1.75Z	16	1/2"-13 x 1-3/4" Carriage Bolt, Grade 5
39	810-5013-Z	28	1/2" Spin Lock Nut
40	851-5013-1.5Z	4	1/2"-13 x 1-1/2" Bolt
41	851-3816-.75Z	4	3/8"-16 x 3/4" Grade 5 Machine Bolt
42	810-3816-Z	10	3/8" Spin Lock Nut
43	851-5013-1Z	16	1/2"-13 x 1" Bolt
44	851-3816-2Z	2	3/8"-16 x 2" Grade 5 Machine Bolt
45	850-3816-.75Z	4	3/8"-16 x 3/4" Grade 5 Carriage Bolt
46	803-3118-.75Z	3	5/16"-18 x 3/4" Flat Head Socket Cap Screw
47	810-3816-Z	20	3/8"-16 Spin Lock Nut
48	M3-1-10-0011	1	Conveyor Chain Cover, Flat (LH Discharge-Front, RH Discharge-Rear)
49	M3-1-5-0029	1	Conveyor Chain Cover, Flat Extension (LH Discharge- Front, RH Discharge-Rear)
50	MS3-1-4-0004	1	Front Conveyor Shield, Flat
	MS3-1-4-0002	1	Front Conveyor Shield, Incline (Right & Left Discharge)
51	49-0185	1	Front Right Discharge Conveyor Chain Cover, Incline
52	VAL-CSK	1	Conveyor Slide Update Kit (Flat Sliding Conveyor Only) Prior to SN 20VS(425201, 510201)
	M3-1-8-0053-AS	4	Conveyor Bottom Slide With Cap & Hardware SN 20VS(425201, 510201) & Later

FRONT FLAT CONVEYOR



FM-ML-0015-1

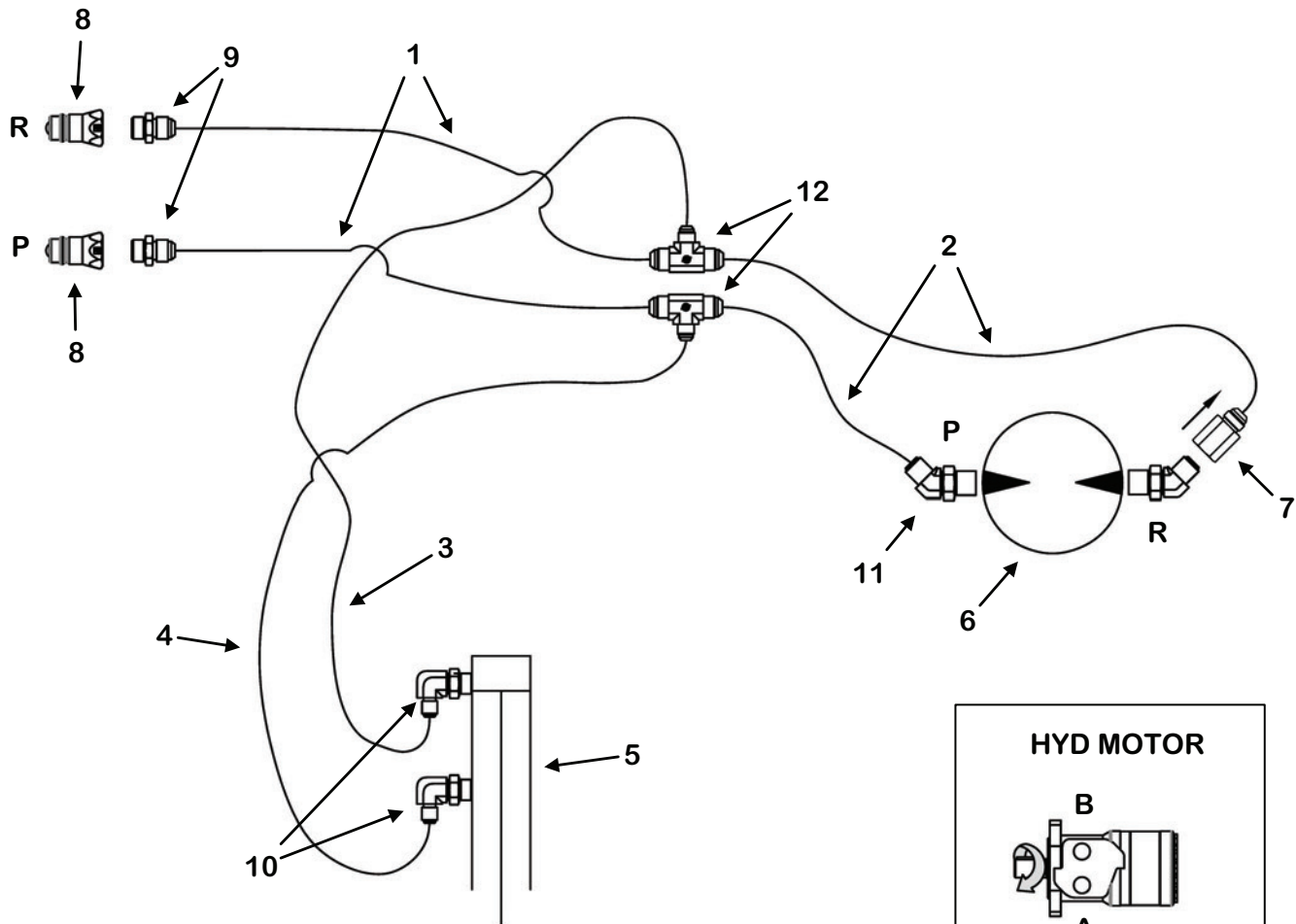
FRONT INCLINE CONVEYOR



FM-ML-0016-1

KEY	PART NUMBER	QTY	DESCRIPTION
0	M3-1-5-0003	1	36" Wide Front Flat Conveyor Assembly
	M3-1-5-0032	1	Front Incline Conveyor Assembly (36" x 24" Conveyor)
	M3-1-5-0033	1	Front Incline Conveyor Assembly (36" x 36" Conveyor)
	M3-1-5-0034	1	Front Incline Conveyor Assembly (36" x 48" Conveyor)
	M3-1-5-0036	1	Front Incline Conveyor Assembly (36" x 60" Conveyor)
1	M3-1-5-0003-1	1	36" Front Conveyor Ext Weldment-Flat Drive End
2	M3-1-5-0032-1	1	Front Incline Conveyor Weldment (36" x 24" Conveyor)
	M3-1-5-0033-1	1	Front Incline Conveyor Weldment (36" x 36" Conveyor)
	M3-1-5-0034-1	1	Front Incline Conveyor Assembly (36" x 48" Conveyor)
	M3-1-5-0036-1	1	Front Incline Conveyor Assembly (36" x 60" Conveyor)
3	14-0070	4	1-1/2" 4-Bolt Bearing
4	M3-1-4-0002	1	Extension Bearing Mount Plate
5	M3-1-4-0015-2	2	Chute Cover
6	23-0254	1	36" Wide Conveyor Drive Shaft Weldment, Flat
	23-0262	1	36" Wide Conveyor Drive Shaft Weldment, Incline
7	M3-1-8-0006	1	Coupler Cover Plate
8	M3-1-8-0034	1	Front Conveyor Motor Bracket
9	49-0181	1	Front Chain Conveyor Belt
10	M3-1-5-0011-2	2	Conveyor Chain Cover, Incline (24" Conveyor)
	M3-1-5-0025	2	Conveyor Chain Cover, Incline (36" Conveyor)
	M3-1-5-0014	2	Conveyor Chain Cover, Incline (48" Conveyor)
	M3-1-4-0045-2	2	Conveyor Chain Cover, Incline (60" Conveyor)
11	M3-1-7-0006	2	Chain Hold Down Plate
12	850-5013-1.75Z	8	1/2"-13 x 1-3/4" Carriage Bolt, Grade 5
13	810-5013-Z	8	1/2" Spin Lock Nut
14	11-0501-AS	1	Incline Ext. 81X Chain Assembly (36" x 24" Conveyor)
	11-0508	1	Incline Ext. 81X Chain Assembly (36" x 36" Conveyor)
	11-0509	1	Incline Ext. 81X Chain Assembly (36" x 48" Conveyor)
	11-0510	1	Incline Ext. 81X Chain Assembly (36" x 60" Conveyor)

FRONT DISCHARGE INCLINE CHAIN CONVEYOR HYDRAULIC SCHEMATIC (36" X 36") (36" X 48")



HYD MOTOR

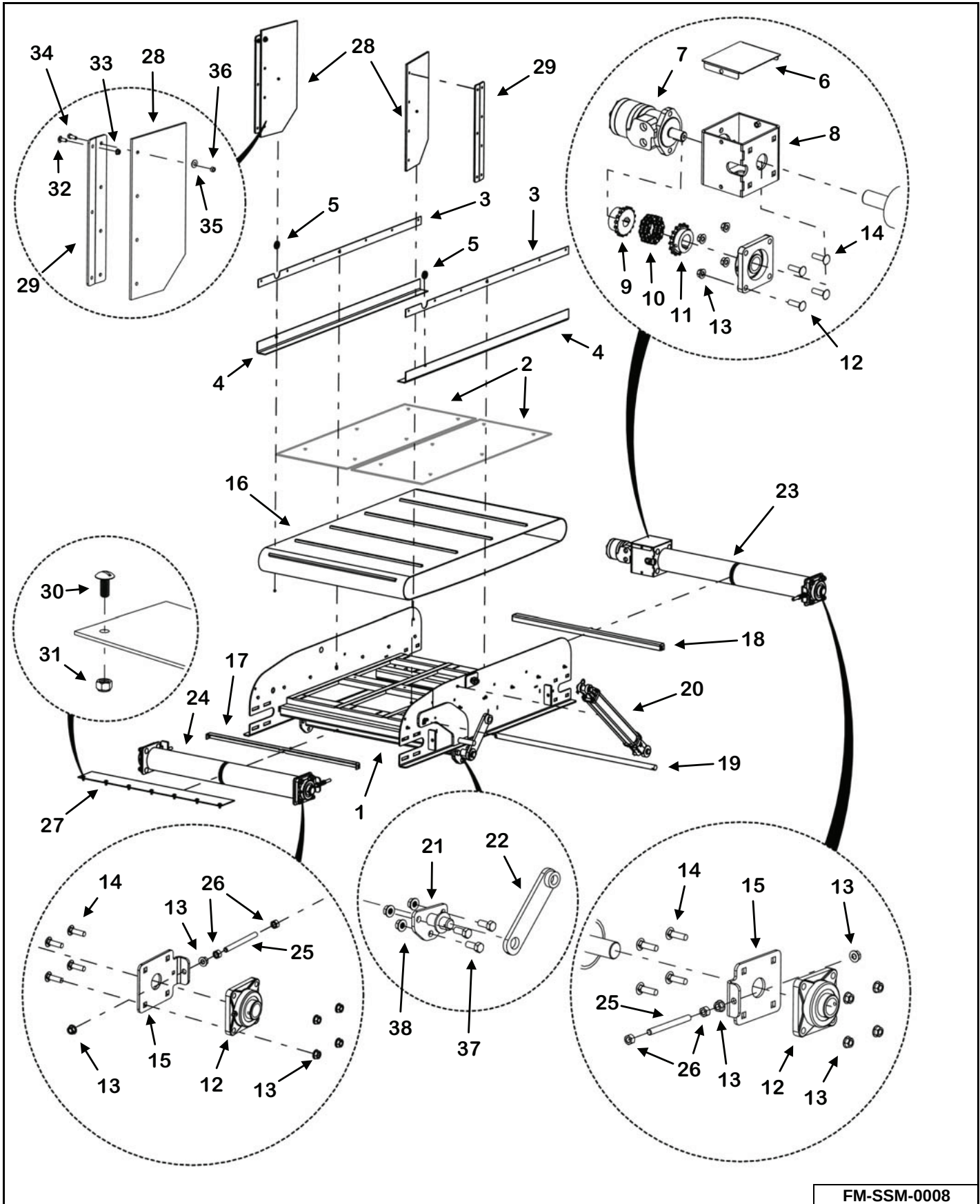
LH Discharge - CW
Pressure To A Port

RH Discharge - CCW
Pressure To B Port

FM-SSM-0007

KEY	PART NUMBER	QTY	DESCRIPTION
1	155-08R17-147-1	2	1/2" x 147" Hose Assembly
2	155-08R17-81-1	2	1/2" x 81" Hose Assembly (36" Front Discharge)
	155-08R17-97-1	2	1/2" x 97" Hose Assembly (48" Front Discharge)
3	155-04-19-1	1	1/4" x 19" Hose Assembly (36" Front Discharge)
	155-04-28-1	1	1/4" x 28" Hose Assembly (48" Front Discharge)
4	155-04-28-1	1	1/4" x 28" Hose Assembly (36" Front Discharge)
	155-04-40-1	1	1/4" x 40" Hose Assembly (48" Front Discharge)
5	155-2-8-1.125-1	1	2" x 8" x 1-1/8" Hydraulic Cylinder
6	155-WR-12.1-1	1	12.1 Cubic Inch 2-Bolt Motor
	155-WR-SK-1	1	Motor Seal Kit
7	155-CV-8-1	1	Check Valve
8	155-8010-15	2	#8 ORB Male Tip 1/2" Body Size
9	155-6400-8-8	2	#8 JIC Male, #8 ORB Male Straight Connector
10	155-6801-6-8-55	2	#6 x #8 90° Adj Elbow With 0.055" Orifice
11	155-6802-8-10	2	#8 JIC Male, #10 ORB Male Adjustable 45°
12	155-2603-08-08-06	2	#8 x #8 x #8 JIC Male Tube Tee

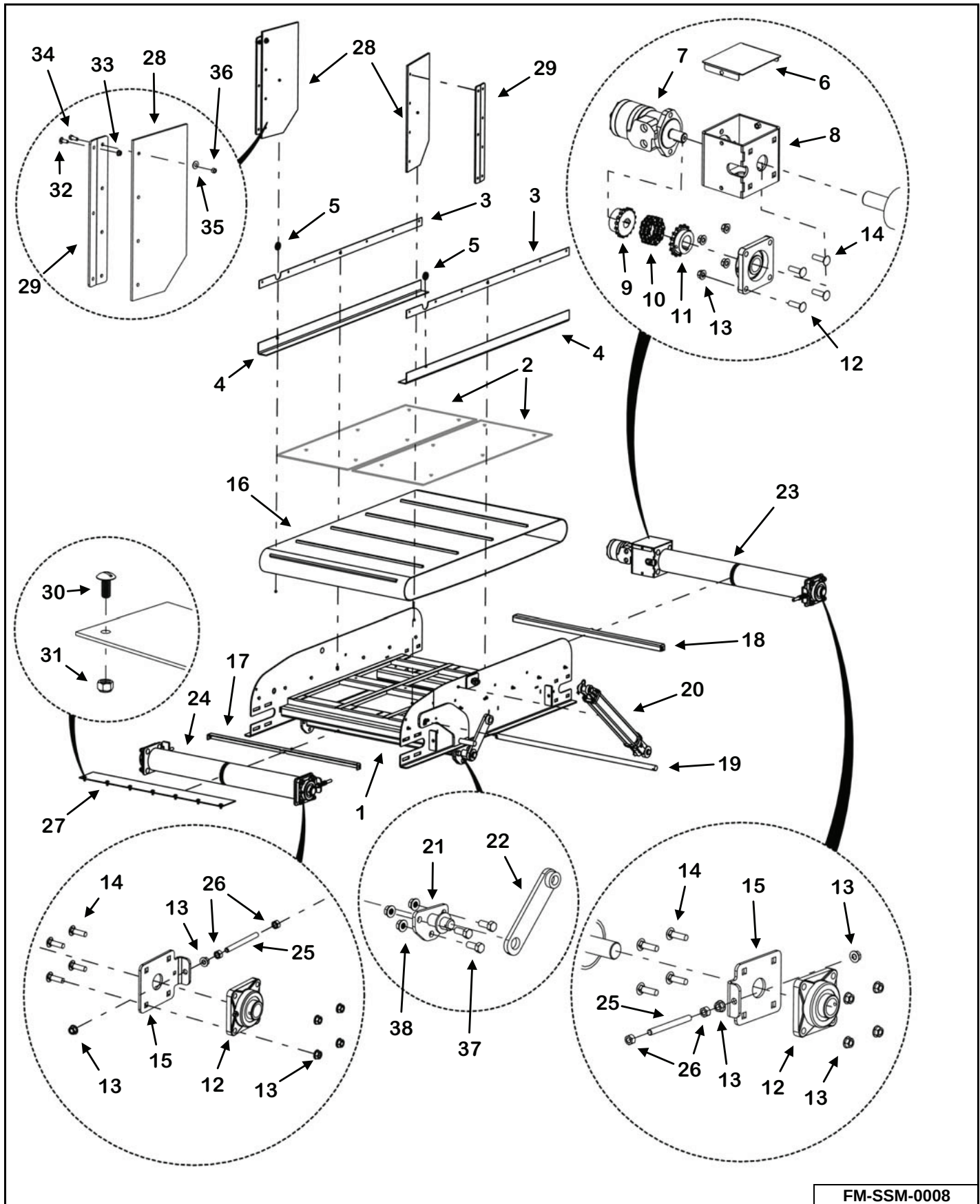
SIDE DISCHARGE BELT CONVEYOR



FM-SSM-0008

KEY	PART NUMBER	QTY	DESCRIPTION
0	VSAM-DBI-36-24-SL	1	36" x 24" Belt Conveyor Complete Side Left
	VSAM-DBI-36-24-SR	1	36" x 24" Belt Conveyor Complete Side Right
	VSAM-DBI-36-36-SL	1	36" x 36" Belt Conveyor Complete Side Left
	VSAM-DBI-36-36-SR	1	36" x 36" Belt Conveyor Complete Side Right
	VSAM-DBI-36-48-SL	1	36" x 48" Belt Conveyor Complete Side Left
	VSAM-DBI-36-48-SR	1	36" x 48" Belt Conveyor Complete Side Right
1	M3-1-4-0073-1	1	36" x 24" Belt Conveyor Frame Weldment
	M3-1-4-0035-1	1	36" x 36" Belt Conveyor Frame Weldment
	M3-1-4-0047-1	1	36" x 48" Belt Conveyor Frame Weldment
2	M3-1-4-0075	2	Side Belt Discharge Conveyor Floor (36" x 24" Belt Conveyor)
	M3-1-4-0036	2	Side Belt Discharge Conveyor Floor (36" x 36" Belt Conveyor)
	M3-1-4-0048	2	Side Belt Discharge Conveyor Floor (36" x 48" Belt Conveyor)
3	M3-1-4-0074	2	Conveyor Skirt Backer (36" x 24" Belt Conveyor)
	M3-1-4-0037	2	Conveyor Skirt Backer (36" x 36" Belt Conveyor)
	M3-1-4-0049	2	Conveyor Skirt Backer (36" x 48" Belt Conveyor)
4	49-0231	2	24" Side Conveyor Skirting
	49-0169	2	36" Side Conveyor Skirting
	49-0194	2	48" Side Conveyor Skirting
5	M3-1-7-0035-1-5	2	Pivot Spacer
6	M3-1-8-0006	1	Coupler Cover Plate
7	See Page 106	1	Hydraulic Motor (24", 36" & 48" Left Discharge) (24" Right Discharge)
	See Page 108	1	Hydraulic Motor (36" & 48" Right Discharge)
8	M3-1-8-0034	1	Front Conveyor Motor Bracket Prior to SN 17VS(0425205, 0510203)
	M3-1-5-0049	1	Front Conveyor Motor Bracket SN 17VS(0425205, 0510203) & Later
9	37-0013-1	1	Unit Coupler, 1" Bore 1/4" Keyway
10	37-0013-2	1	Unit Coupler Chain, #50 16 Double With Connector
11	110-50B16-1.50-1	1	Chain Coupler Sprocket 1.5 Bore x 0.375" Keyway
12	14-0070	4	1-1/2" - 4" Bolt Bearing
13	810-5013-Z	22	1/2" Spin Lock Nut (36" x 36" Belt Conveyor)
	810-5013-Z	24	1/2" Spin Lock Nut (36" x 24", 36" x 48" Belt Conveyor)
14	850-5013-1.75Z	16	1/2-13 x 1-3/4" Carriage Bolt, Grade 5

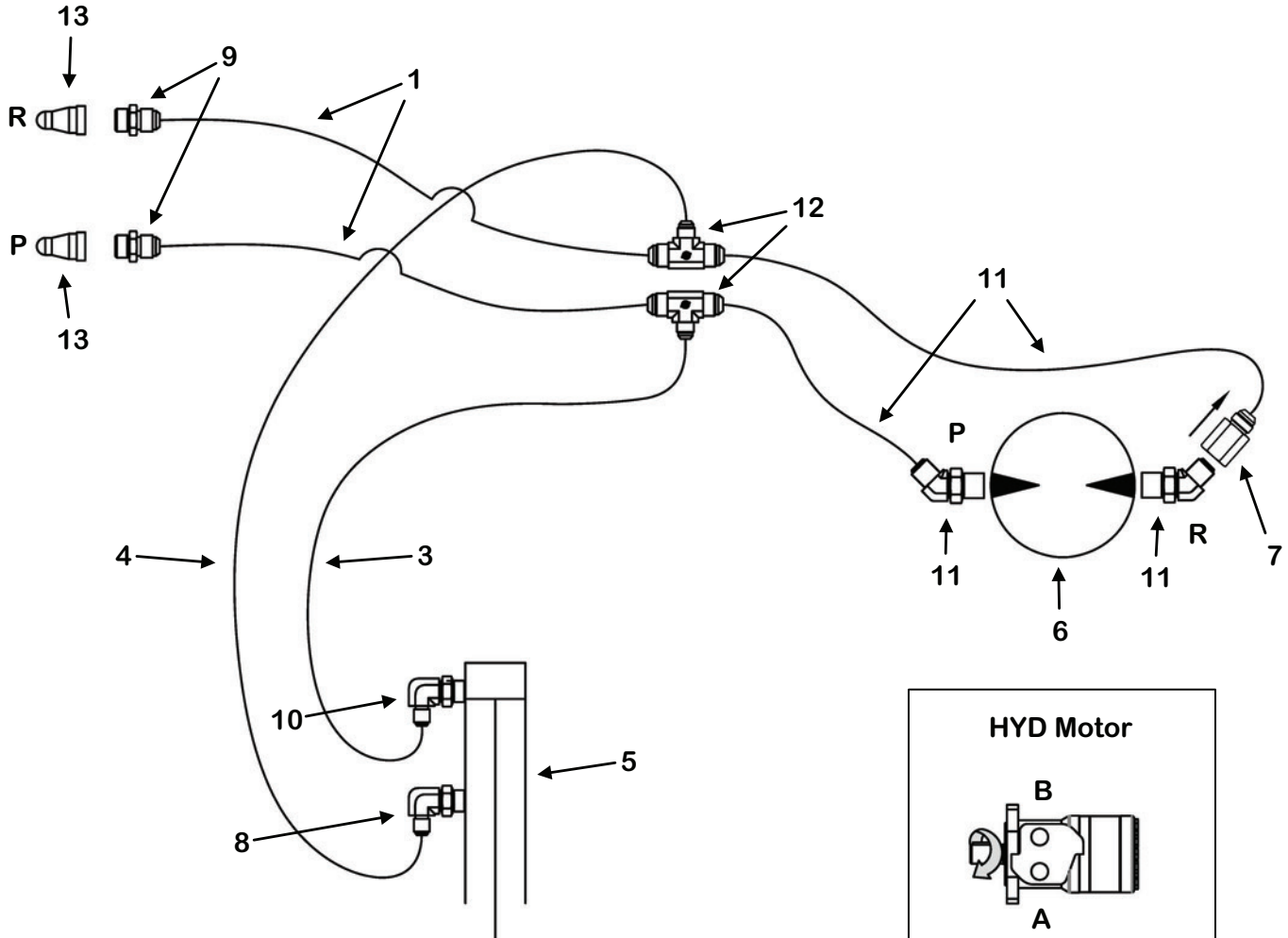
SIDE DISCHARGE BELT CONVEYOR (CONT'D)



FM-SSM-0008

KEY	PART NUMBER	QTY	DESCRIPTION
15	M3-1-5-0044-1	3	Front Conveyor Bearing Mount
16	49-0232-MB	1	35" x 77" Belt, (36" x 24" Belt Conveyor)
	49-0168-MB	1	35" x 93" Belt, (36" x 36" Belt Conveyor)
	49-0195-MB	1	35" x 117" Belt, (36" x 48" Belt Conveyor)
	49-0156-4-AS	1	36" Conveyor Steel Belt Lacing Pin
17	M3-1-8-0016	1	Conveyor Idler Roll Scraper Prior to SN 17VS(0425205, 0510203)
	M3-1-10-0023	1	Conveyor Idler Roll Scraper SN 17VS(0425205, 0510203) & Later
	850-3118-.75Z	2	5/16"-18 x 3/4" Carriage Bolt
	814-3118-Z	2	5/16"-18 Indented Locknut
18	M3-1-8-0017	1	Conveyor Drive Roll Scraper Prior to SN 17VS(0425205, 0510203)
	M3-1-10-0023	1	Conveyor Idler Roll Scraper SN 17VS(0425205, 0510203) & Later
	850-3118-.75Z	2	5/16"-18 x 3/4" Carriage Bolt
	814-3118-Z	2	5/16"-18 Indented Locknut
19	M3-1-4-0050	1	Chute Pivot Rod 1" Diameter x 38-1/2"
20	See Page 106	1	Hydraulic Cylinder (24", 36" & 48" Left Discharge) (24" Right Discharge)
	See Page 108	1	Hydraulic Cylinder (36" & 48" Right Discharge)
21	M3-1-4-0005	1	Extension Hydraulic Mount Weldment
22	M3-1-4-0006	1	Conveyor Link Arm Weldment
23	23-0251	1	1.5 Shaft x 42.625" Drive Pulley
24	23-0257	1	1.5 Shaft x 41.5" Cross Conveyor Idler Pulley
25	830-5013-4Z	3	Tap Bolt, 1/2"-13 x 4"
26	813-5013-Z	6	1/2"-13 Nut
27	49-0170	1	Door Frame Seal
28	M3-1-4-0024	2	Door Deflector (Belting)
29	M3-1-4-0025	2	Belt Chute Deflector
30	802T-3118-.75Z	7	5/16"-18 x 3/4" Truss Head Screw
31	815-3118-Z	7	5/16"-18 Nylon Insert Lock Nut, Left Side
32	850-3816-1Z	6	3/8"-16 x 1" Carriage Bolt, Grade 5
33	810-3816-Z	6	3/8" Spin Lock Nut
34	851-3816-1Z	8	3/8"-16 x 1" Grade 5 Machine Bolt
35	805-0038-Z	4	3/8" Flat Washer
36	815-3816-Z	8	3/8"-16 Nylon Insert Lock Nut
37	851-6311-1.5Z	3	5/8"-11 x 1-1/2" Grade 5 Machine Bolt
38	810-6311-Z	3	5/8" Spin Locknut

SIDE DISCHARGE INCLINE BELT CONVEYOR HYDRAULIC SCHEMATIC (36" X 24), (36" X 36"), (36" X 48") (LEFT & RIGHT DISCHARGE)



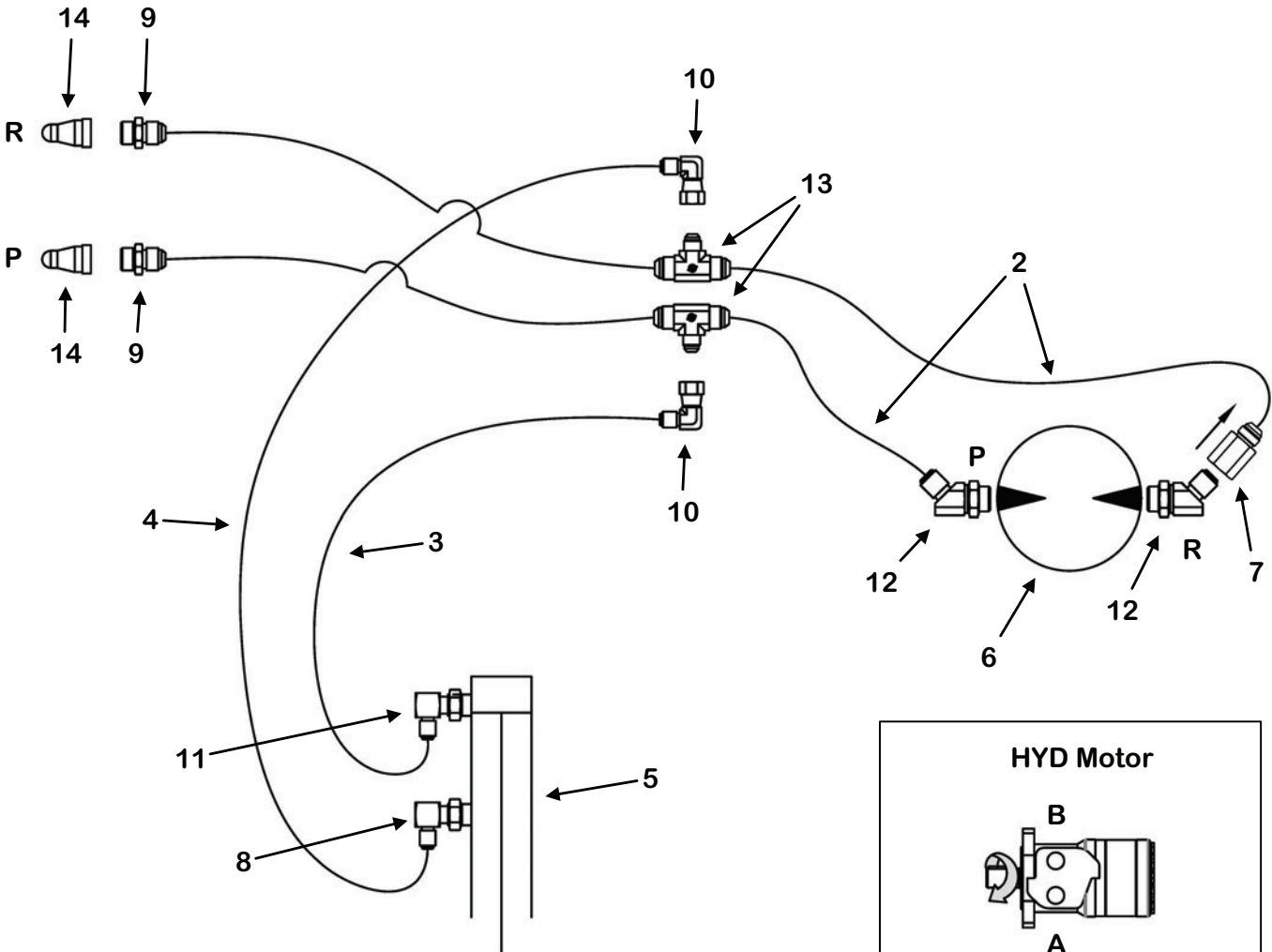
HYD Motor

LH Discharge - CW
 Pressure To A Port

RH Discharge - CCW
 Pressure To A Port

KEY	PART NUMBER	QTY	DESCRIPTION
1	155-08R17-189-1	2	1/2" x 189" Hose Assembly (24", 36", & 48" Left Discharge)
	155-08R17-166-1	2	1/2" x 166" Hose Assembly (24" Right Discharge)
	155-08R17-322-1	2	1/2" x 322" Hose Assembly (36"& 48" Right Discharge)
2	155-08R17-81-1	2	1/2" x 81" Hose Assembly (24" Left Discharge)
	155-08R17-65-1	2	1/2" x 65" Hose Assembly (24" Right Discharge)
	155-08R17-87-1	2	1/2" x 87" Hose Assembly (36", 48" Left Discharge)
	155-08R17-38-1	2	1/2" x 38" Hose Assembly (36" Right Discharge)
	155-08R17-99-1	2	1/2" x 99" Hose Assembly (48" Left Discharge)
3	155-04R17-40-2	2	1/4" x 40" Hose Assembly (24", 36", & 48" Left Discharge)
	155-04R17-162-1	2	1/4" x 162" Hose Assembly (24" Right Discharge)
	155-04R17-21-1	2	1/4" x 21" Hose Assembly (48" Right Discharge)
4	155-04-40-1	1	1/4" x 40" Hose Assembly (24", 36" & 48" Left Discharge)
	155-04-102-1	1	1/4" x 102" Hose Assembly (24" Right Discharge)
5	155-2-16-1.125-1	1	2" x 16" x 1-1/8" Hydraulic Cylinder (24", 36" & 48" Left Discharge)
	155-2-16-1.125-2	1	2" x 16" x 1-1/8" Hydraulic Cylinder (24" Right Discharge)
6	155-WR-12.1-1	1	12.1 Cubic Inch 2-Bolt Motor
	155-WR-SK-1	1	Motor Seal Kit
7	155-CV-8-1	1	Check Valve
8	155-6801-6-8	1	#6 JIC Male, #8 ORB Male Adjustable 90°
9	155-6400-8-8	2	#8 JIC Male, #8 ORB Male Straight Connector
10	155-6801-6-8-55	1	#6 x #8 90° Adj Elbow With 0.055" Orifice
11	155-6802-8-10	2	#8 JIC Male, #10 ORB Male Adjustable 45°
12	155-2603-08-08-06	2	#8 x #8 x #8 JIC Male Tube Tee
13	155-8010-15	2	#8 ORB Male Tip 1/2" Body Size
NS	955-3754	2	3/4" Tube Clamp (Right Discharge Only)

SIDE DISCHARGE INCLINE CHAIN CONVEYOR HYDRAULIC SCHEMATIC 36" X 36" (RIGHT DISCHARGE), 36" X 48" (RIGHT DISCHARGE)



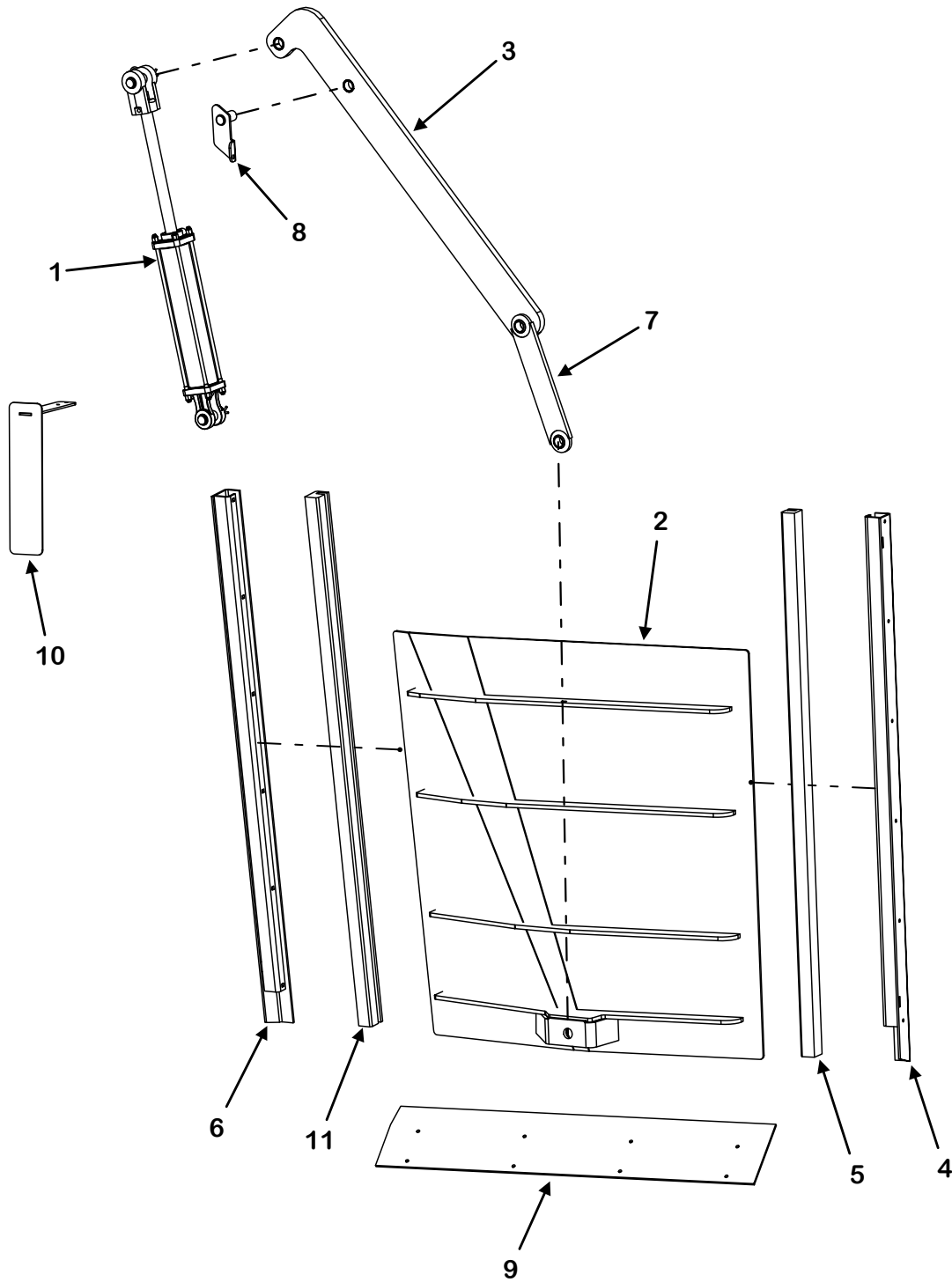
HYD Motor

RH Discharge
 Pressure To B Port - CCW

FM-SSM-0010

KEY	PART NUMBER	QTY	DESCRIPTION
1	155-08R17-222-1	2	1/2" x 122" Hose Assembly
2	155-08R17-69-1	2	1/2" x 69" Hose Assembly
3	155-04-57-1	1	1/4" x 57" Hose Assembly
4	155-04-40-1	1	1/4" x 40" Hose Assembly
5	155-2-16-1.125-1	1	2" x 16" x 1-1/8" Hydraulic Cylinder
6	155-WR-12.1-1	1	12.1 Cubic Inch 2-Bolt Motor
	155-WR-SK-1	1	Motor Seal Kit
7	155-CV-8-1	1	Check Valve
8	155-6801-6-8	1	#6 JIC Male, #8 ORB Male 90 Degree Adjustable Elbow
9	155-6400-8-8	2	#8 JIC Male, #8 ORB Male Straight Connector
10	155-6500-06-06	2	#6 JIC Male, #6 JIC Female Swivel 90°
11	155-6801-6-8-55	1	#6 x #8 90° Adj Elbow With 0.055" Orifice
12	155-6802-8-10	2	#8 JIC Male, #10 ORB Male Adjustable 45°
13	155-2603-08-08-06	2	#8 x #8 x #8 JIC Male Tube Tee
14	155-8010-15	2	#8 ORB Male Tip 1/2" Body Size
NS	955-3754	2	3/4" Tube Clamp

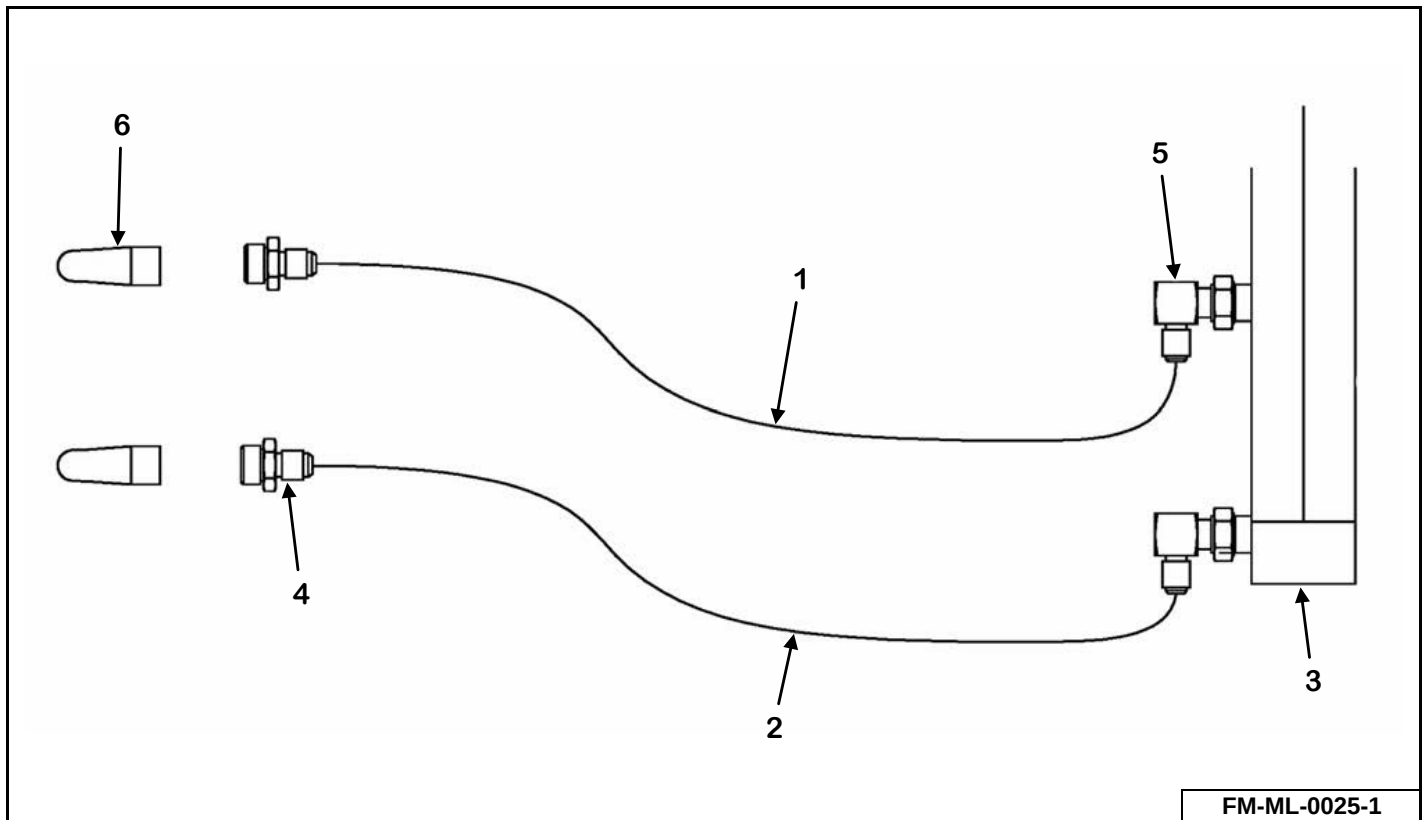
DOOR



FM-ML-0024-1

KEY	PART NUMBER	QTY	DESCRIPTION
1	155-2.5-12-1.125-1	1	2-1/2" x 12" x 1-1/8" Hydraulic Cylinder
2	MS6-1-4-0002	1	Rear / Front Door Weldment
	MS6-1-4-0004	1	Left Side Door Weldment
	M6-1-7-0009	1	Right Side Door Weldment
3	M6-1-8-0006	1	Rear / Front Door Arm
	M6-1-4-0004	1	Left / Right Door Arm
	M6-1-8-0006-2	2	Spring Bushing 1" ID x 1-1/4" OD x 3/4"
4	M6-1-8-0002	1	Right Door Frame Guide Assembly
5	M6-1-10-0007-R	1	Right Poly Door Slide (Facing Door)
	850-3118-2.5Z	6	Carriage Bolt, 5/16"-18 x 2-1/2"
	814-3118-Z	6	Indented Lock Nut, 5/16"-18
6	M6-1-8-0004	1	Left Door Frame Guide Assembly
7	M6-1-8-0008	1	Door Link Arm Assembly
	851-1008-3Z	2	Machine Bolt, 1"-8 x 3"
	815-1008-Z	2	Lock Nut, 1"-8 Nylon Insert
8	M6-1-8-0009	1	Front & Rear Door Link Pivot Pin Assembly
	MS6-1-4-0005	1	Right & Left Door Pivot Pin Assembly
	851-3816-1.25Z	1	3/8"-16 x 1-1/4" Machine Bolt
	805-0038-Z	2	3/8" Flat Washer
	815-3816-Z	1	3/8"-16 Nylon Insert Lock Nut
9	M11-1-0033	1	Magnet Cover Plate (Side Door Only)
10	MS2-1-4-0001-31	AR	Left / Right Side Discharge Door Indicator Weldment
11	M6-1-10-0007-L	1	Left Poly Door Slide (Facing Door)
	850-3118-2.5Z	6	Carriage Bolt, 5/16"-18 x 2-1/2"
	814-3118-Z	6	Indented Lock Nut, 5/16"-18
NS	MS2-1-4-0001-32	1	Front Brace (Facing Door Only) SN 18VS(0425203, 0510205) & Later

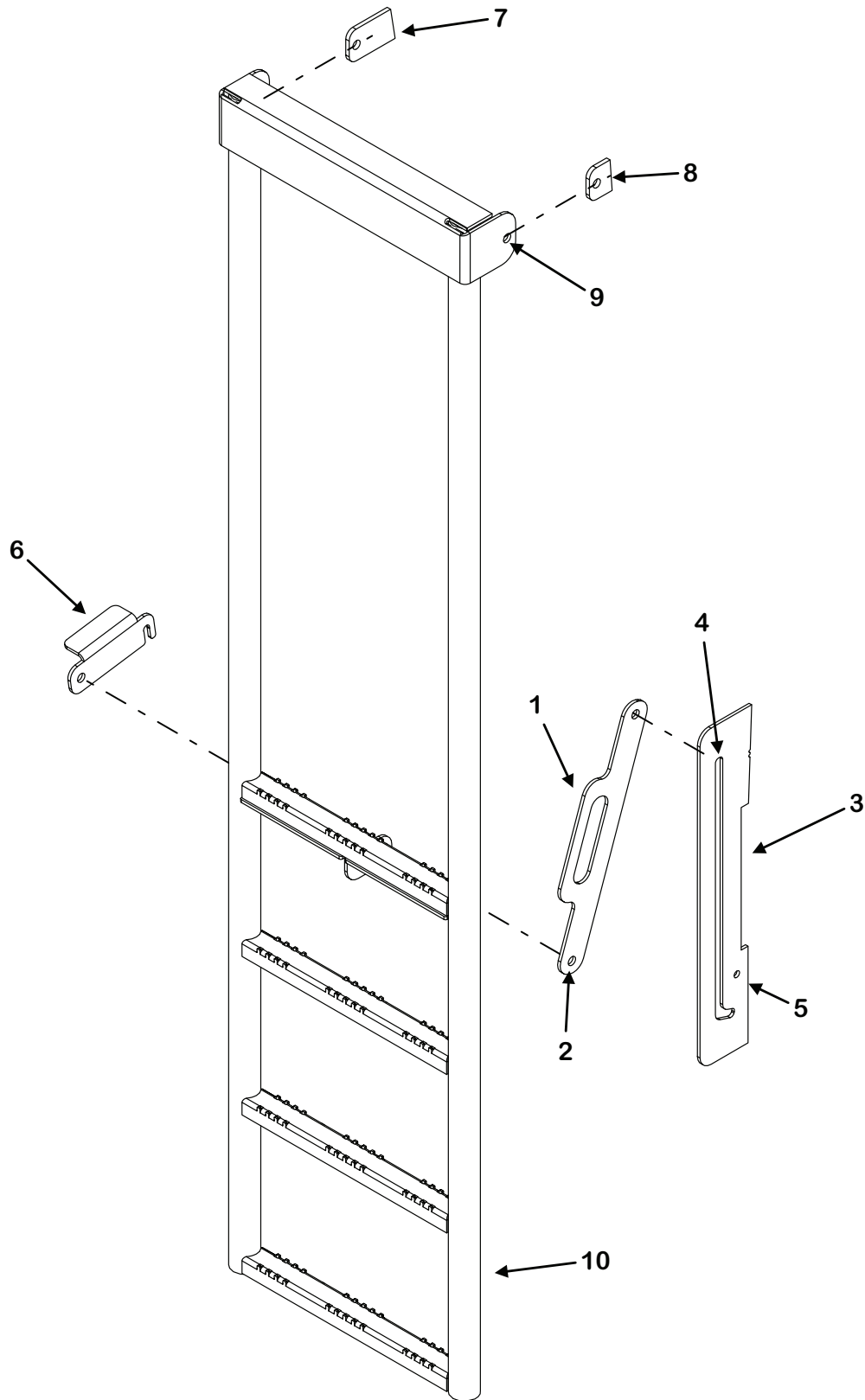
DOOR HYDRAULIC SCHEMATIC FRONT / LEFT / RIGHT DOOR



KEY	PART NUMBER	QTY	DESCRIPTION
1	155-04-208-1	1	1/4 x 208" Hose Assembly (Right Door)
	155-04-304-1	1	1/4 x 304" Hose Assembly (Left Door)
	155-04-218-1	1	1/4 x 218" Hose Assembly (Front Door)
2	155-04-193-1	1	1/4 x 193" Hose Assembly (Right Door)
	155-04-289-1	1	1/4 x 289" Hose Assembly (Left Door)
	155-04-197-1	1	1/4 x 197" Hose Assembly (Front Door)
3	155-2-5-12-1.125-1	1	2-1/2 x 12 x 1-1/8" Hydraulic Cylinder
4	155-6400-6-8	2	#6 JIC Male, #8 ORB Male Straight Connector
5	155-6801-6-8	2	#6 JIC Male, #8 ORB Male Adjustable 90°
6	155-8010-15	2	#8 ORB Male Tip 1/2" Body Size



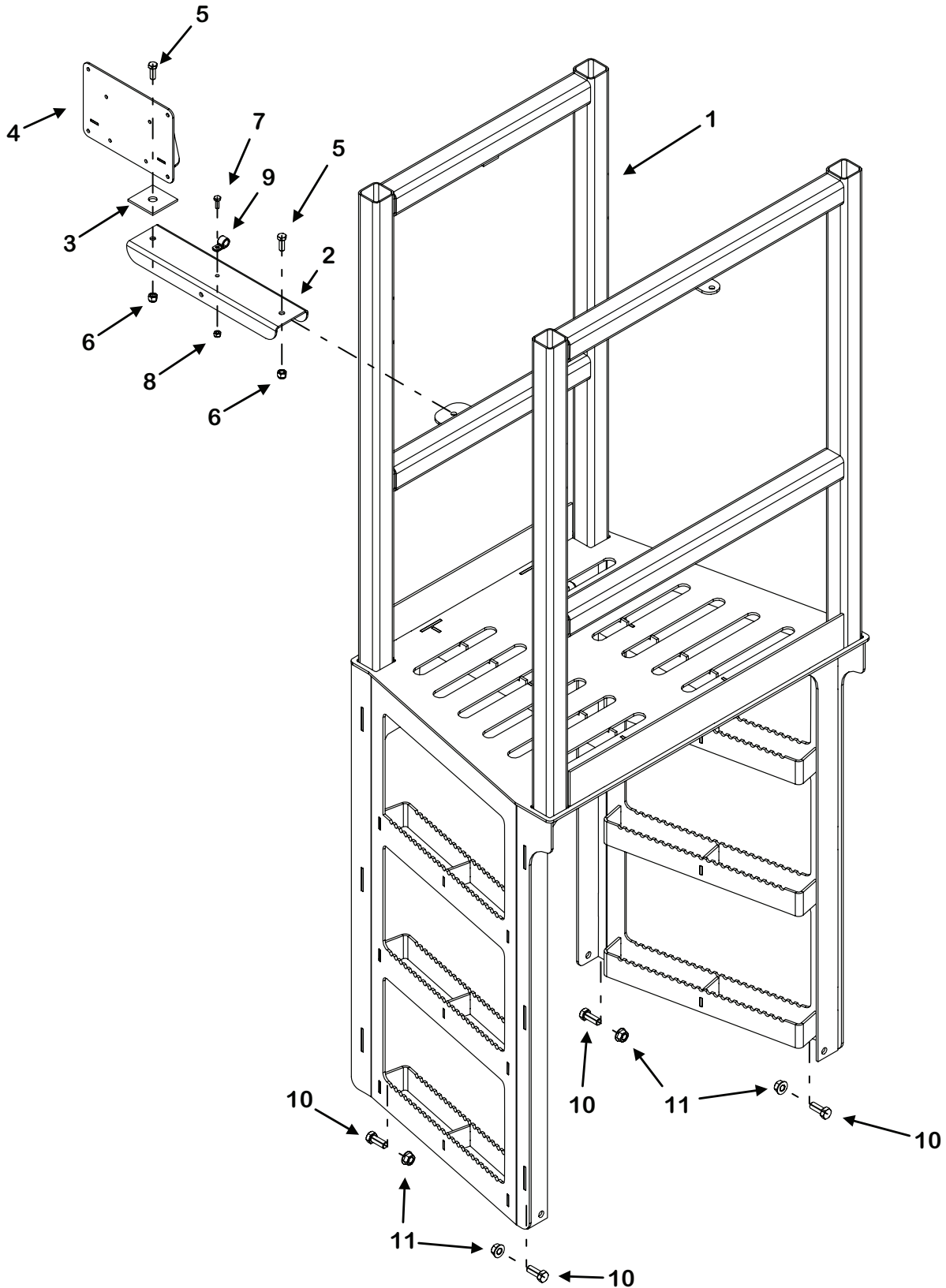
LADDER



FM-SSM-0011

KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	M10-1-4-0001-4	1	Ladder Handle	Both Models
2	851-5013-1.75Z	1	1/2-13 x 1-3/4" Bolt	Both Models
	805-0050-Z	2	1/2" Flat Washer	Both Models
	815-5013-Z	1	1/2-13 Nylon Lock Nut	Both Models
3	MS2-1-5-0001-23	1	Ladder Guide (Welded On)	Both Models
4	851-5013-1.5Z	1	1/2-13 x 1-1/2" Bolt	Both Models
	805-0050-Z	2	1/2" Flat Washer	Both Models
	815-5013-Z	1	1/2-13 Nylon Lock Nut	Both Models
5	851-3816-1.5Z	1	3/8-16 x 1-1/2" Bolt	Both Models
	810-3816-Z	2	3/8" Spin Lock Nut	Both Models
6	M10-1-4-0001-5	1	Ladder Latch	Both Models
7	MS2-1-5-0001-22	1	Left Ladder Mount, Front Discharge (Welded On)	Both Models
	MS2-1-4-0001-25	1	Left Ladder Mount, Side Discharge (Welded On)	Both Models
8	M2-1-7-0001-25	1	Right Ladder Mount, Front Discharge (Welded On)	Both Models
	MS2-1-4-0001-26	1	Right Ladder Mount, Side Discharge (Welded On)	Both Models
9	851-5013-1.5Z	2	1/2-13 x 1-1/2" Bolt	Both Models
	805-0050-Z	2	1/2" Flat Washer	Both Models
	815-5013-Z	2	1/2-13 Nylon Lock Nut	Both Models
10	M10-1-4-0001	1	Ladder Weldment	425
	M10-1-7-0001	1	Ladder Weldment	510

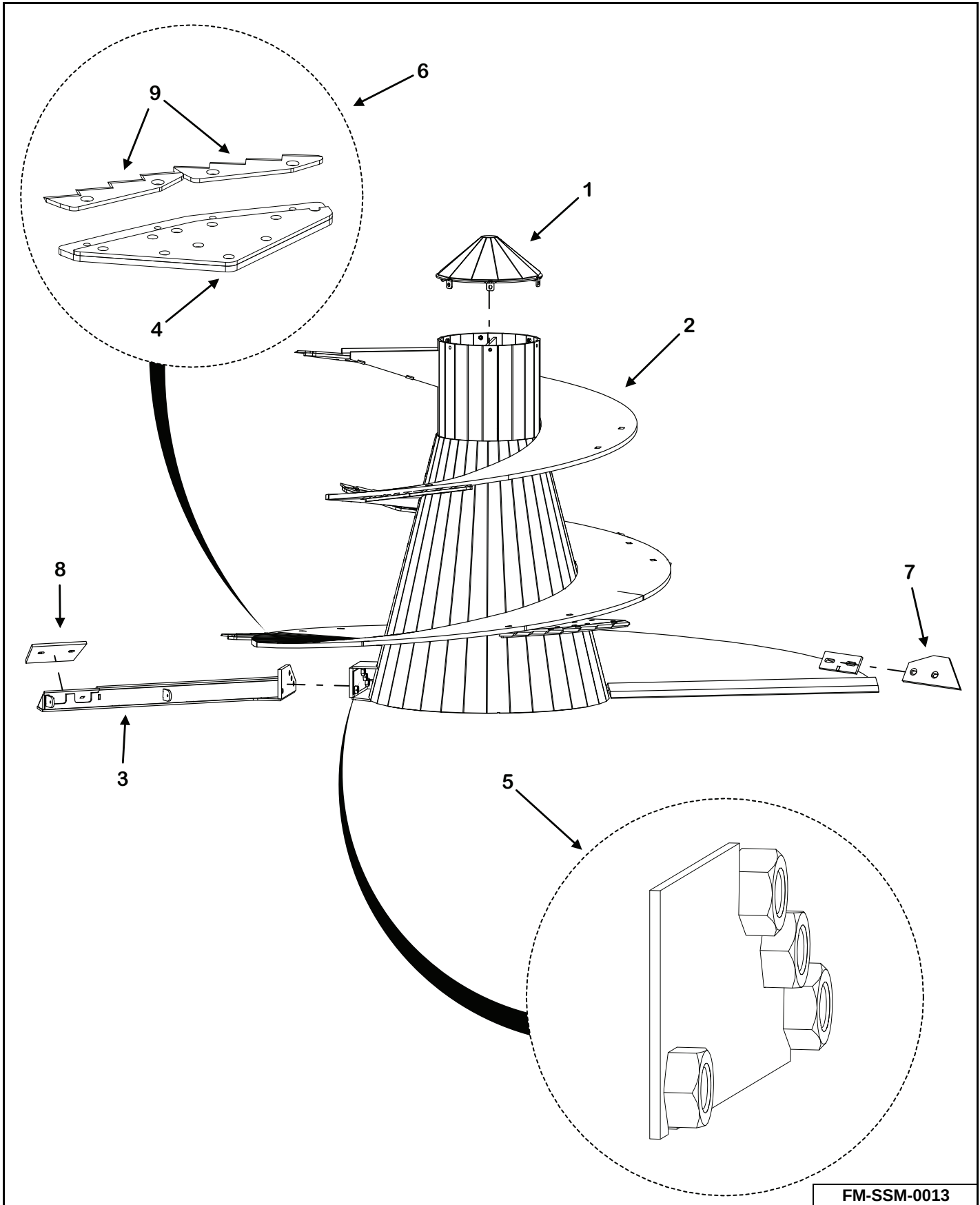
VIEWING PLATFORM



FM-SSM-0012

KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	MS10-1-4-0002	1	Viewing Platform Weldment	425
	MS10-1-5-0002	1	Viewing Platform Weldment	510
2	M9-1-8-0003	1	Scale Arm	Both Models
3	M9-1-8-0004	2	Scale Arm Rubber Washer	Both Models
4	M9-1-8-0002	1	Scale Indicator Mount	Both Models
5	851-3816-1Z	2	3/8-16 x 1" Machine Bolt	Both Models
6	815-3816-Z	2	3/8"-16 Nylon Insert Lock Nut	Both Models
7	851-2520-.75Z	1	1/4-20 x 3/4" Machine Bolt	Both Models
8	815-2520-Z	1	1/4-20 Nylon Insert Locknut	Both Models
9	851-2520-.75Z	1	1/4-20 x 3/4" Machine Bolt	Both Models
10	810-5013-Z	4	1/2" Spin Lock Nut	Both Models
11	851-5013-1.25Z	4	1/2-13 x 1-1/4" Machine Bolt	Both Models

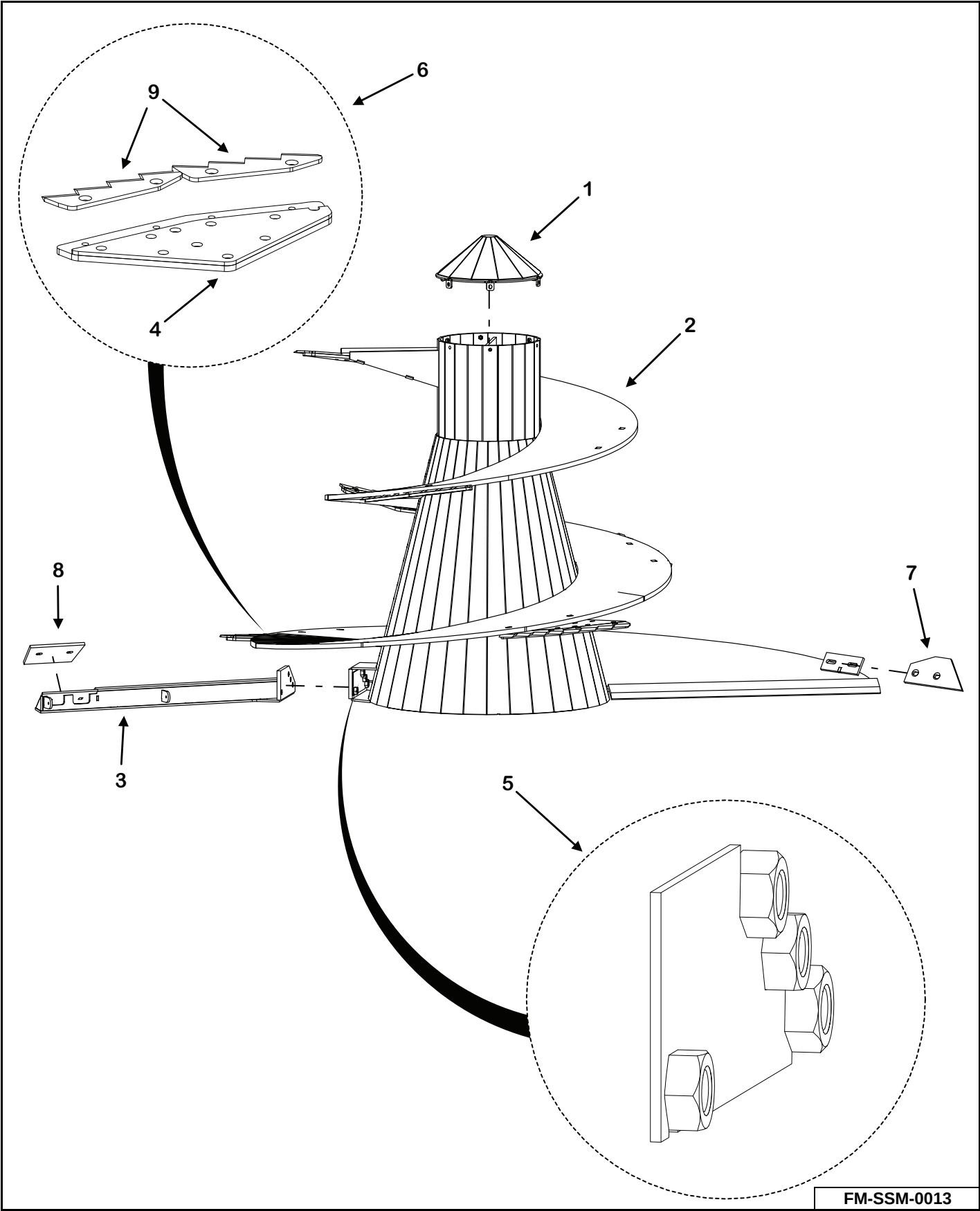
AUGER



FM-SSM-0013

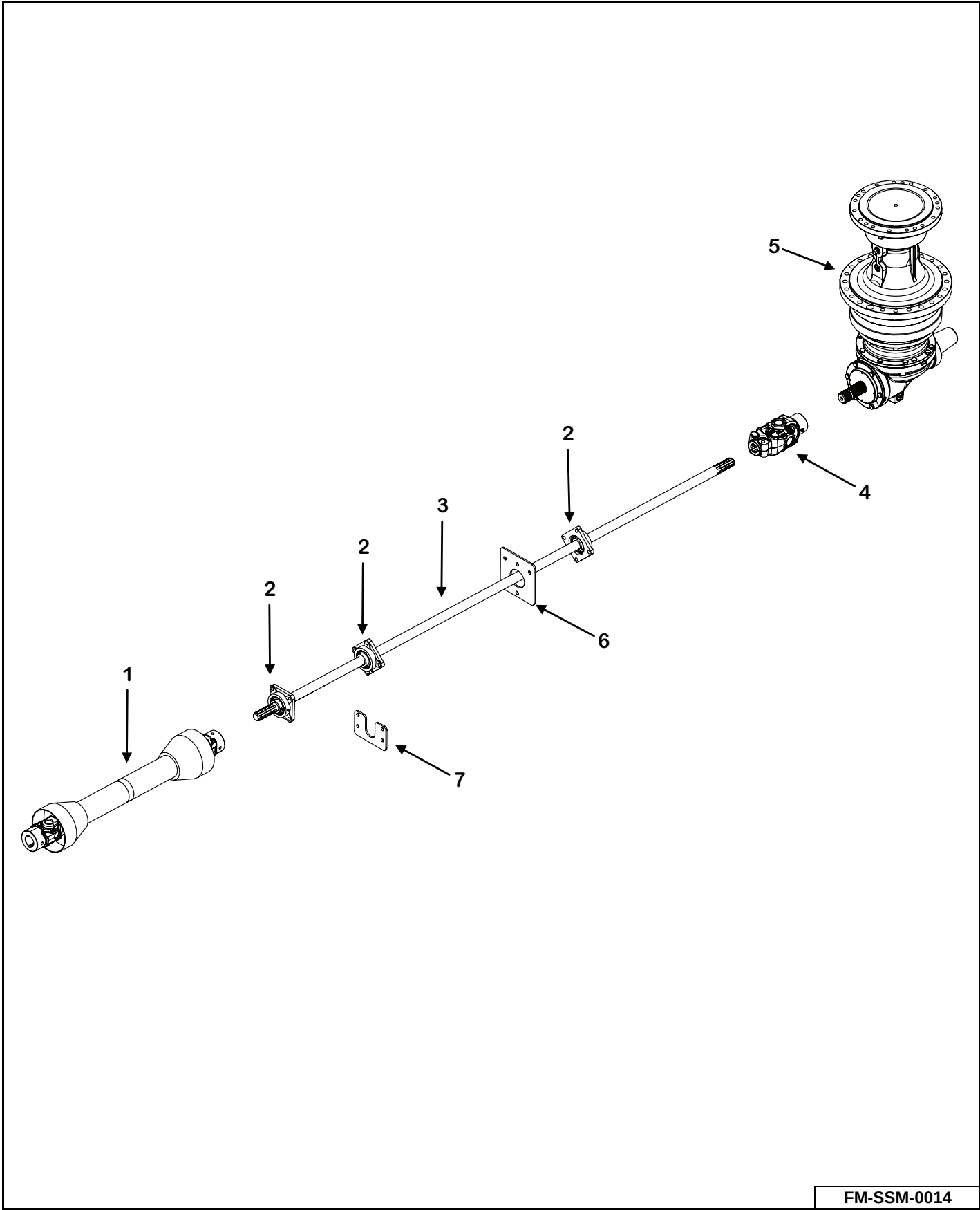
KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
0	MS5-1-4-0003	1	Auger Assembly, Complete With Knives, Backer & Hardware, Prior to SN 18VS(0425208,0510201)	425
	MS5-1-4-0005	1	Auger Assembly, Complete With Knives, Backer & Hardware, SN 18VS(0425208,0510201) & Later	425
	MS5-1-5-0003	1	Auger Assembly, Complete With Knives, Backer & Hardware, Prior to SN 18VS(0425208,0510201)	510
	MS5-1-5-0006	1	Auger Assembly, Complete With Knives, Backer & Hardware, SN 18VS(0425208,0510201) & Later	510
1	M5-1-8-0002	1	Auger Top Cap Weldment	Both Models
	851-3118-1.25SS	6	5/16"-18 x 1-1/4" Stainless Steel Bolts	Both Models
	805-0031-Z	6	5/16" Flat Washer	Both Models
	822-0031-Z	6	5/16" Split Lock Washer	Both Models
2	MS5-1-4-0003-1	1	Auger Weldment, Prior to SN 18VS(0425208,0510201)	425
	MS5-1-4-0005-1	1	Auger Weldment, SN 18VS(0425208,0510201) & Later	425
	MS5-1-5-0003-1	1	Auger Weldment, Prior to SN 18VS(0425208,0510201)	510
	MS5-1-5-0006-1	1	Auger Weldment, SN 18VS(0425208,0510201) & Later	510
3	M5-1-8-0014	1	Kicker Weldment	Both Models
	881-6311-1.75Z	4	5/8"-11 x 1-1/2" Bolt	Both Models
4	M11-1-0011	5/6	Knife Backer Weldment Prior to SN 18VS(0425208,0510201)	425/510
	M11-1-0040	5/6	Knife Backer Weldment SN 18VS(0425208,0510201) & Later	425/510
	M11-1-0041	AR	HD Knife Backer Weldment SN 18VS(0425208,0510201) & Later	425/510
	832-6311-2	1 per	5/8"-11 x 2" Button Head / Allen Head Bolt (Round Hole Auger Flighting) (For M11-1-0040) Prior to SN 18VS(0425208,0510201)	Both Models
	832-6311-2.5	1 per	5/8"-11 x 2-1/2" Button Head / Allen Head Bolt (Round Hole Auger Flighting) (For M11-1-0041) Prior to SN 18VS(0425208,0510201)	Both Models
	880-6311-2Z	1 per	5/8" -11 x 2" Carriage Bolt Zinc (Square Hole Auger Flighting) (For M11-1-0040) SN 18VS(0425208,0510201) & Later	Both Models
	880-6311-2.5Z	1 per	5/8" -11 x 2-1/2" Carriage Bolt Zinc (Square Hole Auger Flighting) (For M11-1-0041) SN 18VS(0425208,0510201) & Later	Both Models
	886-6311-Z	2 per	5/8" -11 Center Lock Nut	Both Models

AUGER (CONT'D)



KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
5	M5-1-8-0007	1	Auger Kicker Nut Holder Weldment	Both Models
6	M11-1-0059-K	5/6	Mixer Knife Assembly (Includes Knives, Backers & Hardware)	425/510
	M11-1-0060-K	AR	Mixer HD Knife Assembly (Includes Knives, Backers & Hardware)	425/510
7	M5-1-8-0005-K	1	Auger Scraper With Hardware	Both Models
	852-5013-1.75Z	2	1/2"-13 x 1-3/4" Flat Head Socket Cap Screw	Both Models
	815-5013-Z	2	1/2"-13 Nylon Lock Nut	Both Models
	828-0050-Z	2	1/2" SAE Washer	Both Models
8	M5-1-8-0006-K	1	Kicker Wear Plate With Hardware	Both Models
	852-5013-1.75Z	2	1/2"-13 x 1-3/4" Flat Head Socket Cap Screw	Both Models
	815-5013-Z	2	1/2"-13 Nylon Lock Nut	Both Models
	828-0050-Z	2	1/2" SAE Washer	Both Models
9	M11-1-0050-K	AR	One Blade With Hardware	Both Models
	803-3816-1Z	2 per	3/8"-16 x 1" Flat Head Socket Cap Screw	Both Models
	814-3816-Z	2 per	3/8"-16 Center Lock Nut	Both Models

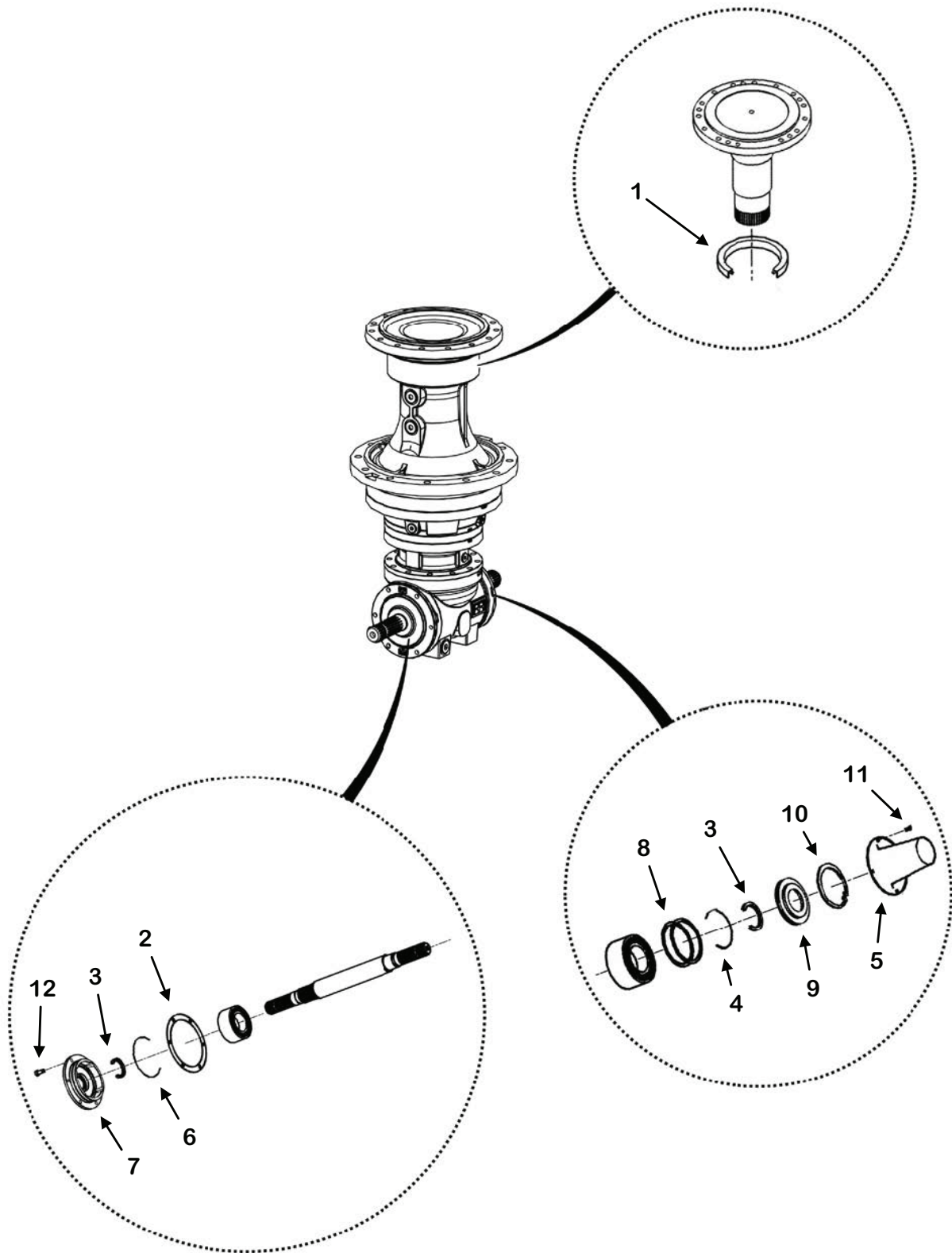
DRIVELINE



FM-SSM-0014

KEY	PART NUMBER	QTY	DESCRIPTION
1	See Page 130	1	1-3/8"-21 Spline x 1-3/8"-6 Spline PTO Complete
	See Page 131	1	1-3/8"-21 Spline x 1-3/8"-6 Spline CV PTO Complete (Optional)
2	914-3604	2	1-3/8" 4-Bolt Bearing (Side Discharge) (Front Discharge: Prior to SN 26VS(0425201,0510201))
	914-3604	3	1-3/8" 4-Bolt Bearing (Front Discharge) SN 26VS(0425201,0510201) & Later
3	123-1.38-0008	1	PTO Extension Drive Shaft (Front Discharge Only) Prior to SN 18VS(0425208,0510201)
	123-1.38-0005	1	PTO Extension Drive Shaft (Front Discharge Only) SN 18VS(0425208,0510201) & Later
	123-1.38-0011	1	PTO Extension Drive Shaft (Side Discharge Only) Prior to SN 18VS(0425208,0510201)
	123-1.38-0007	1	PTO Extension Drive Shaft (Side Discharge Only) SN 18VS(0425208,0510201) & Later
4	See Page 132	1	Universal Joint Complete
5	See Page 124	1	1680 Series Planetary Gearbox (Prior to SN 24VS0510201)
	881-M14-2.0-130-Z	23	M14-2.0 x 130MM Hex Head Cap Screw (Prior to 2018 Model Year)
	885-M14-2.0-Z	23	M14-2.0 Nylon Insert Lock Nut (Prior to 2018 Model Year)
	MS11-1-0004	2	1680 Planetary Bolt Ring (2018 Model Year to SN 24VS0510201)
	MS11-1-0003	6	1680 Planetary Pin (2018 Model Year to SN 24VS0510201)
	881-M14-2.0-130-Z	17	M14-2.0 x 130MM Hex Head Cap Screw (2018 Model Year to SN 24VS0510201)
	885-M14-2.0-Z	17	M14-2.0 Nylon Insert Lock Nut (2018 Model Year to SN 24VS0510201)
	See Page 126	1	2100 Series Planetary Gearbox (SN 24VS0510201 & Later)
	881-6311-2.5Z	24	5/8"-11 x 2-1/2" Bolt (SN 24VS0510201 & Later)
	814-6311-Z	24	5/8"-11 Center Lock Nut (SN 24VS0510201 & Later)
6	MS8-1-4-0006	1	PTO Bearing Mount (Front Discharge Only)
7	MS2-1-4-0002-5	1	Bearing Mount (Front Discharge Only)

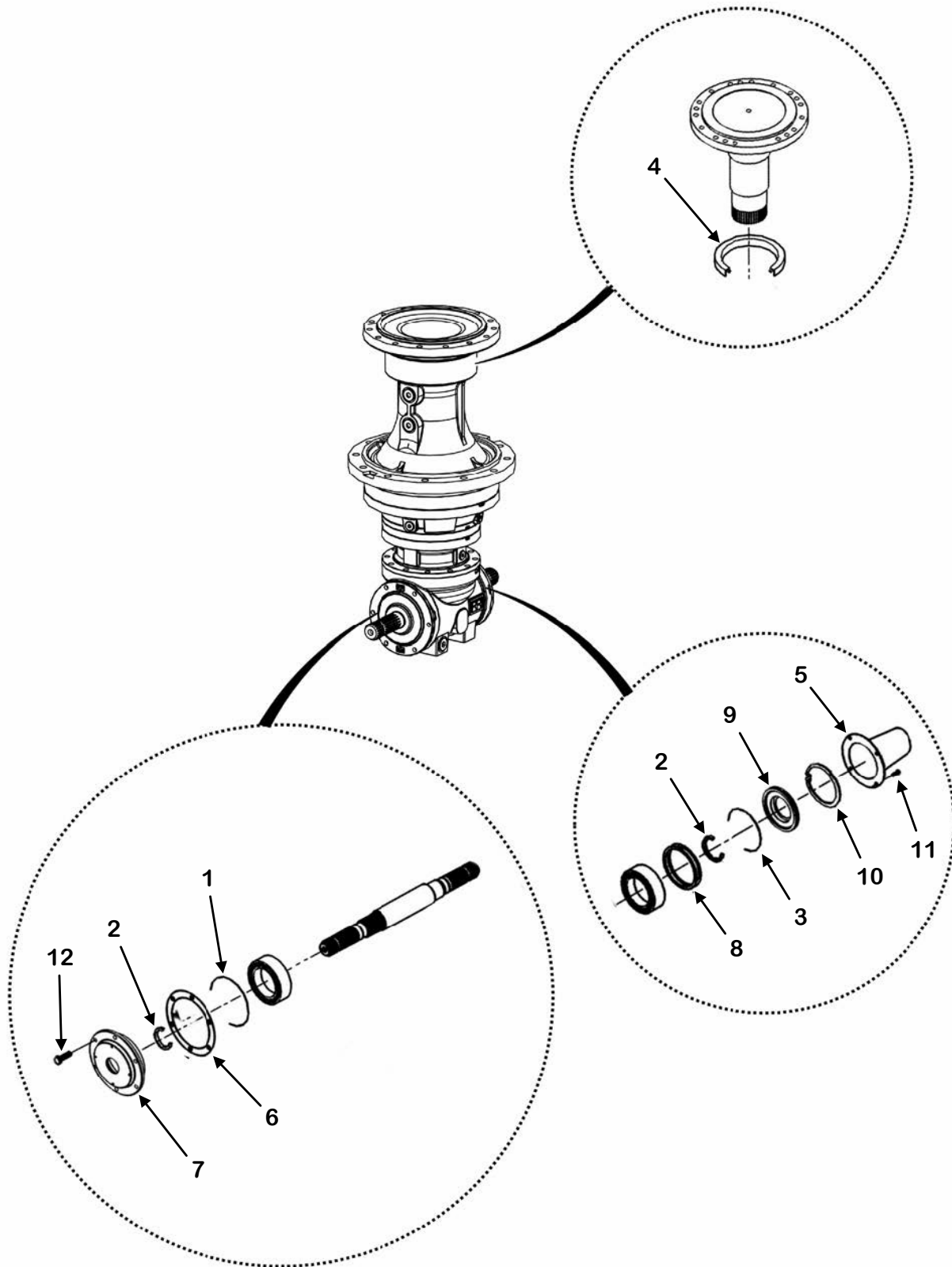
1680 SERIES PLANETARY
(PRIOR TO SN 24VS0510201)



119-1680-24.18-1

KEY	PART NUMBER	QTY	DESCRIPTION
0	119-1680-24.18-1	1	1680 Series Planetary Gearbox
1	119-P-RR-20	1	Oil Seal
2	119-P-RR-5	1	O-Ring
3	119-P-RR-6	2	Oil Seal
4	119-P-RR-7	1	O-Ring
5	119-P-RR-13	1	Shaft Protection Shield
6	119-P-RR-14	1	Thickness Kit
7	119-P-RR-15	1	Cover
8	119-P-RR-16	2	Thickness Kit
9	119-P-RR-17	1	Cover
10	119-P-RR-18	1	Snap Ring
11	851-M5-.8-10-YZ	4	Cap Screw
12	851-M10-1.5-25-Z	6	Machine Bolt

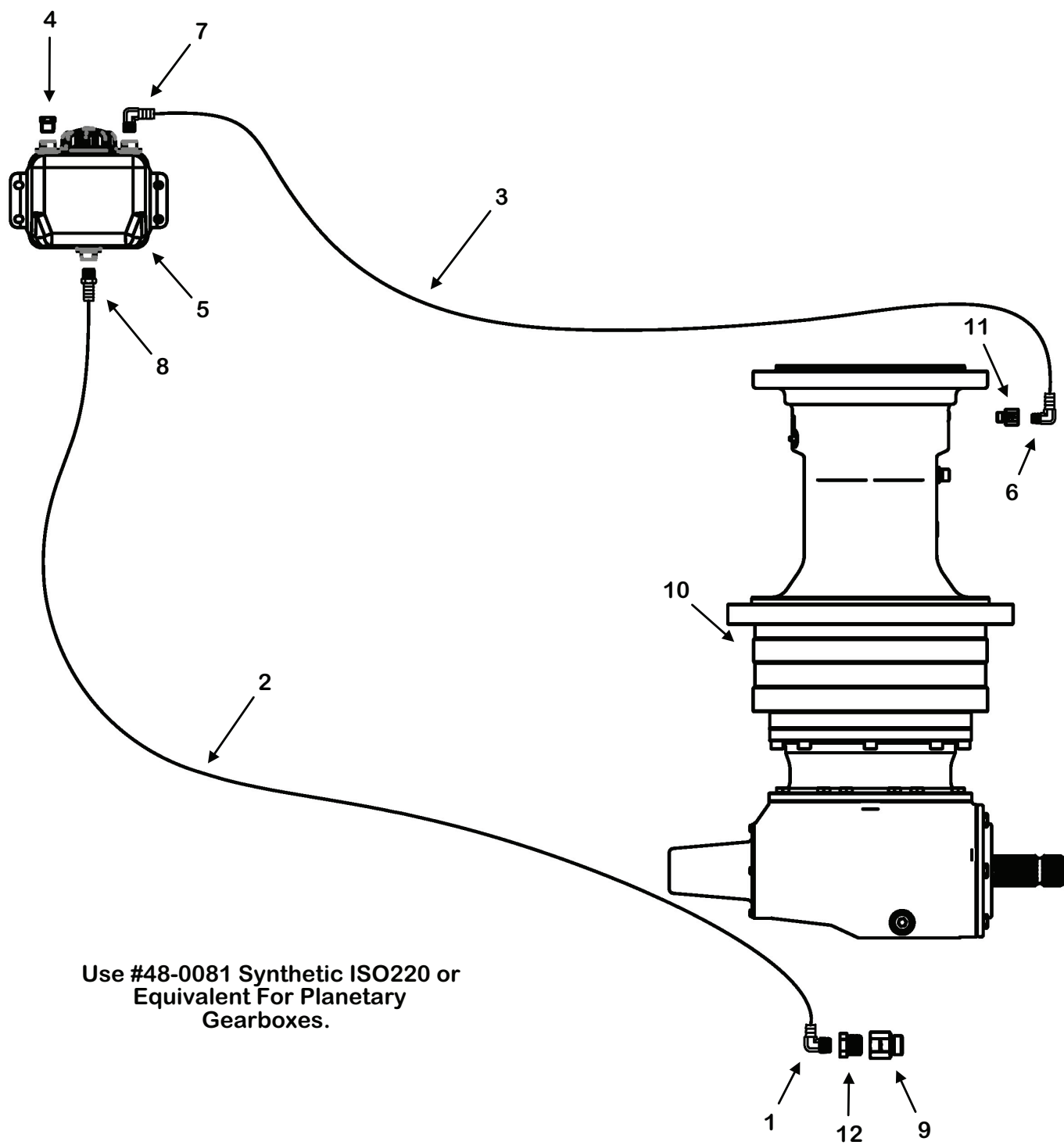
2100 SERIES PLANETARY
(SN 24VS0510201 & LATER)



119-21-25.67-1

KEY	PART NUMBER	QTY	DESCRIPTION
0	119-21-25.67-1	1	2100 Series Planetary Gearbox
1	119-P-RR-5	1	O-Ring
2	119-P-RR-6	2	Oil Seal
3	119-P-RR-7	1	O-Ring
4	119-P-RR-1	1	Oil Seal
5	119-P-RR-13	1	Shaft Protection Shield
6	119-P-RR-14	1	Thickness Kit
7	119-P-RR-15	1	Cover
8	119-P-RR-16	2	Thickness Kit
9	119-P-RR-17	1	Cover
10	119-P-RR-18	1	Snap Ring
11	851-M5-.8-10-YZ	4	Cap Screw
12	851-M10-1.5-25-Z	6	Machine Bolt

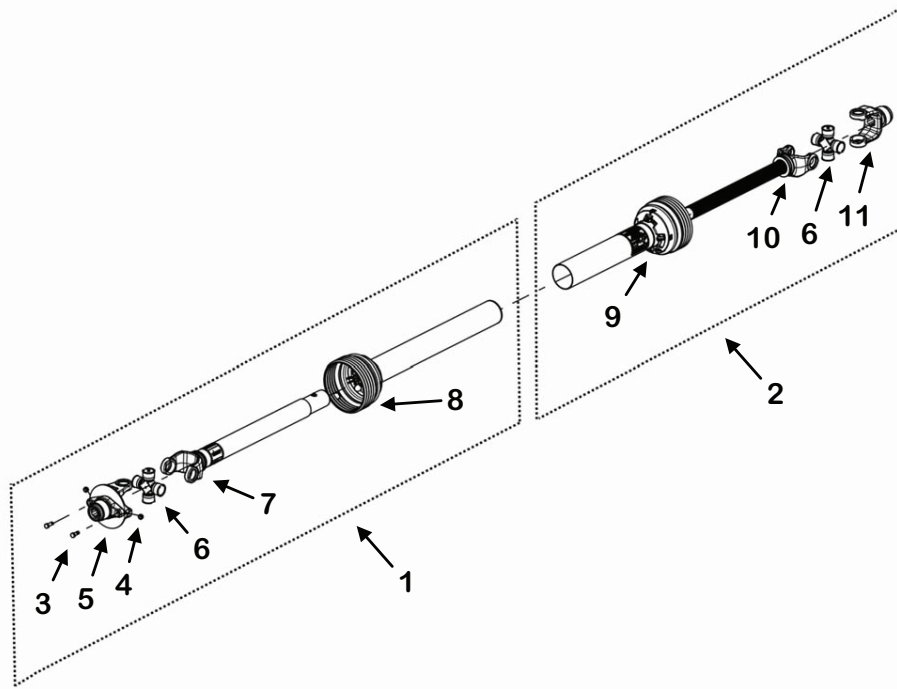
PLANETARY OIL SYSTEM



FM-SSM-0015

KEY	PART NUMBER	QTY	DESCRIPTION
1	55-0404	1	1/2" x 3/8" BRS 90° Elbow Barb (Prior to SN 24VS0510201)
	55-0406	1	1/2" x 1/2" BRS 90° Elbow Barb (SN 24VS0510201 & Later)
2	155-2231-08	90"	1/2" ID x 3/4" OD Push On Hose
3	155-2231-08	108"	1/2" ID x 3/4" OD Push On Hose
4	55-0307	1	Breather Vent 3/8" Pipe x 11/16" Hex 150 PSI
5	952-0003	1	2 QT Plastic Tank With Vented Cap
6	55-0403	1	1/2" x 1/4" BRS 90° Elbow
7	55-0404	1	1/2" x 3/8" BRS MA Barb Hose
8	55-0405	1	1/2" x 3/8" BRS MA Barb Hose
9	155-PB06-06	1	#06NPT FEMx06BSPP Adapter With BSP Bonded Seal (Prior to SN 24VS0510201)
	155-PB12-12	1	#12NPT FEMx12BSPP Adapter W/BSP Bonded Seal (SN 24VS0510201 & Later)
10	See Page 124	1	1860 Planetary Gearbox 24.18:1 Ratio 1.75-20 SPL (Prior to SN 24VS0510201)
	See Page 126	1	2100 Planetary Gearbox 25.67:1 Ratio 1.75-20 SPL (SN 24VS0510201 & Later)
11	155-PB4-4	1	#4NPT FEMx4BSPP Adapter With BSP Bonded Seal
12	55-0044	1	12MP-08FP Pipe Reducer Bushing 3/4"-1/2" (SN 24VS0510201 & Later)

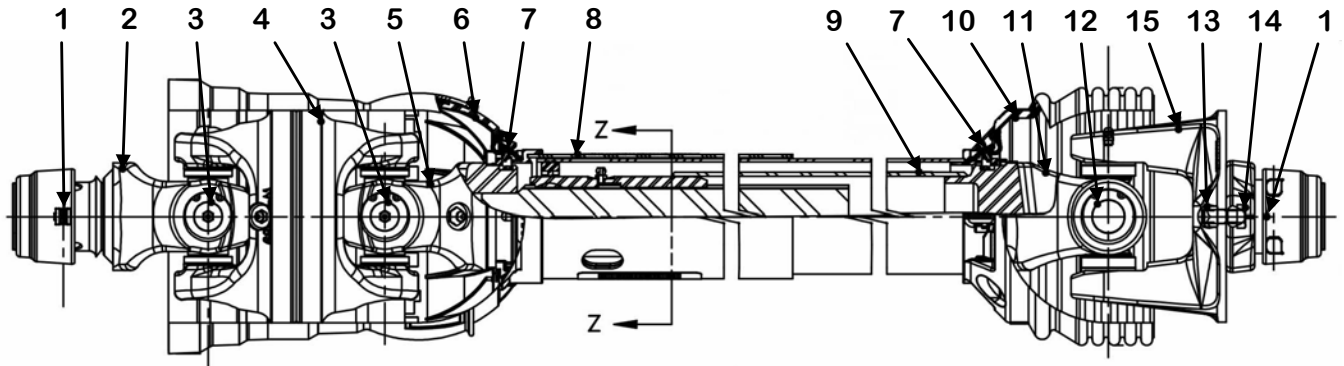
PTO DRIVE SHAFT



118-VM-0013-55

KEY	PART NUMBER	QTY	DESCRIPTION
0	118-VM-0013-55	1	1-3/8"-21 Spline x 1-3/8"-6 Spline PTO Complete
1	118-VM-0001-55-2	1	1-3/8"-6 Spline Implement Half Assembly With Guard
2	118-VM-0013-55-1	1	1-3/8"-21 Spline Tractor Half Assembly With Guard
3	851-3816-1Z	2	3/8"-16 x 1" Bolt
4	814-3816-Z	2	3/8"-16 Lock Nut
5	118-VM-0001-55-2-4	1	Ball Shear Assembly
6	118-VM-01-55-1-1	2	55EBL Cross Kit
7	118-VM-0001-55-2-2	1	Yoke, Tube & Slip Sleeve (Implement Half)
8	118-VM-0001-55-2-1	1	Inner Guard (Implement Half)
	118-VM-0001-55-1-4	1	Guard Repair Kit
9	118-VM-0001-55-1-3	1	Outer Guard (Tractor Half)
	118-VM-0001-55-1-4	1	Guard Repair Kit
10	118-VM-0001-55-1-2	1	Yoke & Shaft (Tractor Half)
11	118-VM-0013-55-1-2	1	Safety Slide Lock Yoke Assembly
	918-0001-11	2	Lock Repair Kit

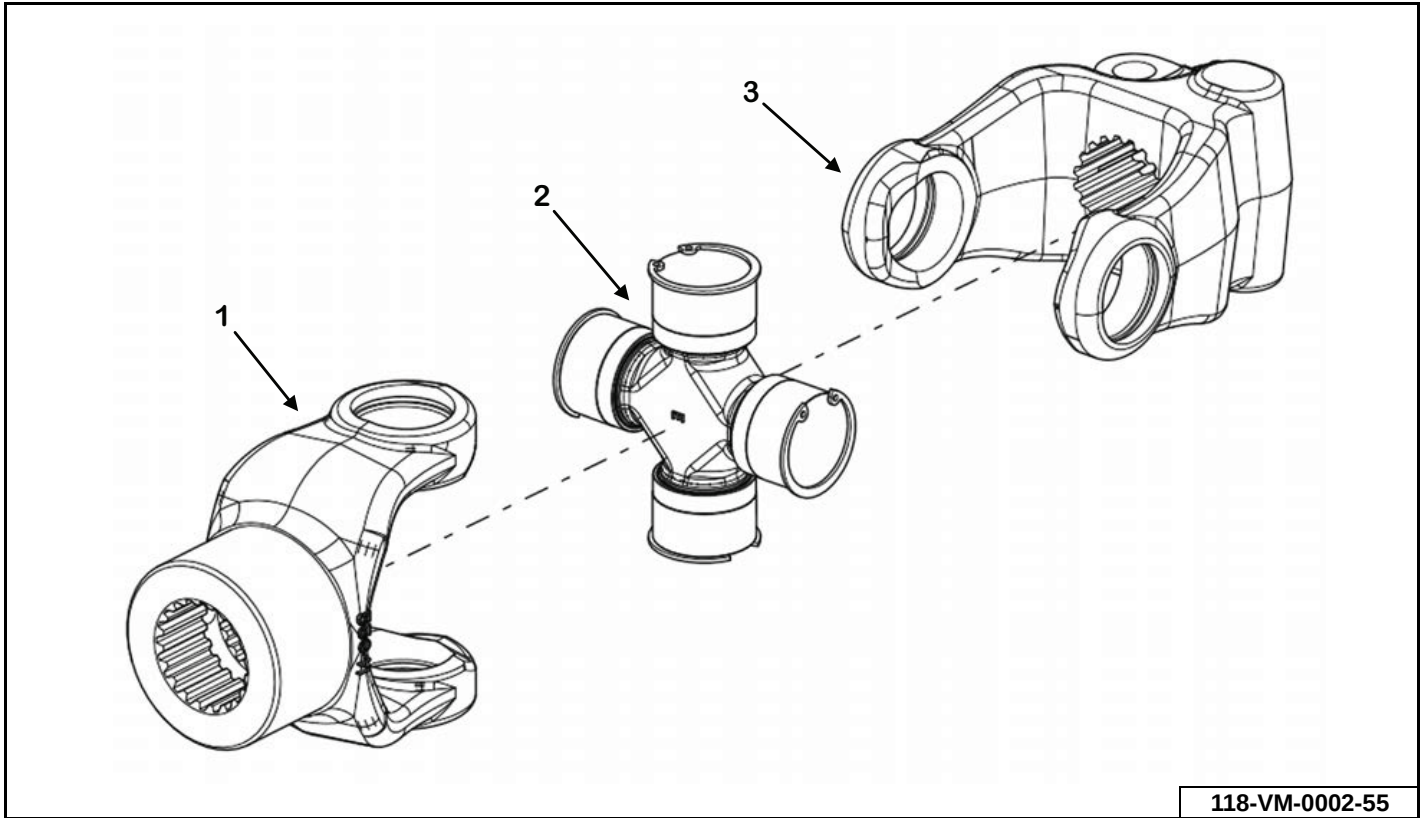
CV PTO DRIVE SHAFT (OPTIONAL)



118-VM-0030-55

KEY	PART NUMBER	QTY	DESCRIPTION
0	118-VM-0030-55	1	1-3/8"-21 Spline x 1-3/8"-6 Spline CV PTO Complete
	118-VM-30-55-2	1	1-3/8"-6 Spline Implement Half Assembly With Guard
	118-VM-30-55-1	1	1-3/8"-21 Spline Tractor Half Assembly With Guard
1	918-0001-11	2	Lock Repair Kit
2	118-VM-0006-55-2-1	1	Auto Lock Yoke
3	118-VM-06-55-1-1	2	Cross Kit
4	118-VM-0006-55-2-1	1	Center Housing
5	118-VM-30-55-1-2	1	Yoke & Shaft (Tractor Half)
6	118-VM-30-55-1-3	1	Outer Guard (Tractor Half)
7	118-VM-0001-55-1-4	2	Guard Repair Kit
8	918-0001-22	1	Safety Decal
9	918-0001-23	1	Safety Decal
10	118-VM-30-55-2-2	1	Inner Guard (Implement Half)
11	118-VM-30-55-2-3	1	Yoke, Tube & Slip Sleeve (Implement Half)
12	118-VM-01-55-1-1	1	55EBL Cross Kit
13	918-0001-21	2	3/8"-16 Lock Nut
14	118-VM-30-55-2-4	2	3/8"-16 x 1" Bolt
15	118-VM-30-55-2-5	1	Ball Shear

UNIVERSAL JOINT

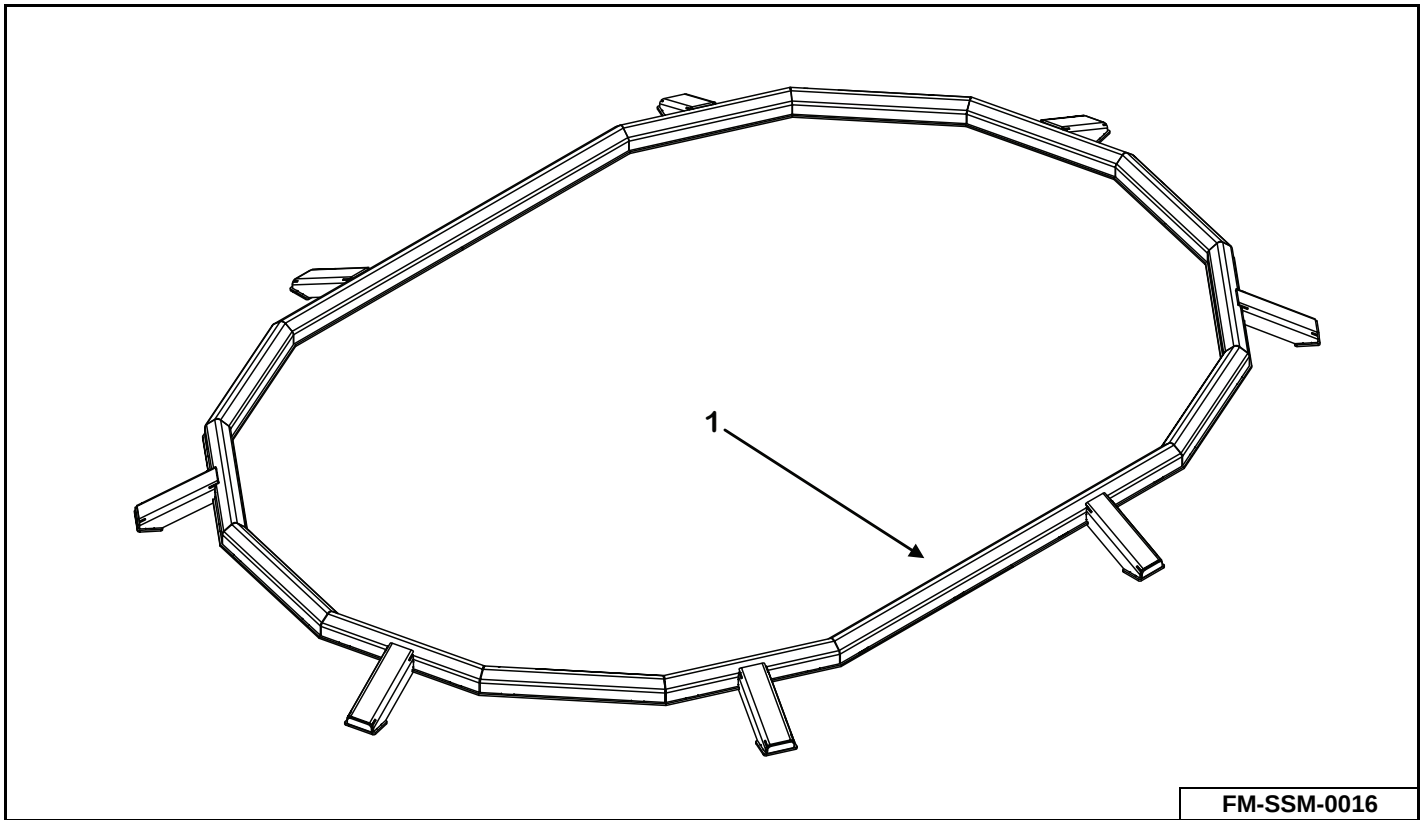


KEY	PART NUMBER	QTY	DESCRIPTION
0	118-VM-0002-55	1	Universal Joint Complete
1	118-VM-0002-55-2	1	Yoke
2	118-VM-01-55-1-1	1	55EBL Cross Kit
3	118-VM-0002-55-1	1	Yoke
	851-6311-3Z	1	5/8"-11 x 3" Bolt
	815-6311-Z	1	5/8"-11 Nylon Insert Lock Nut

10.0 OPTIONAL PARTS

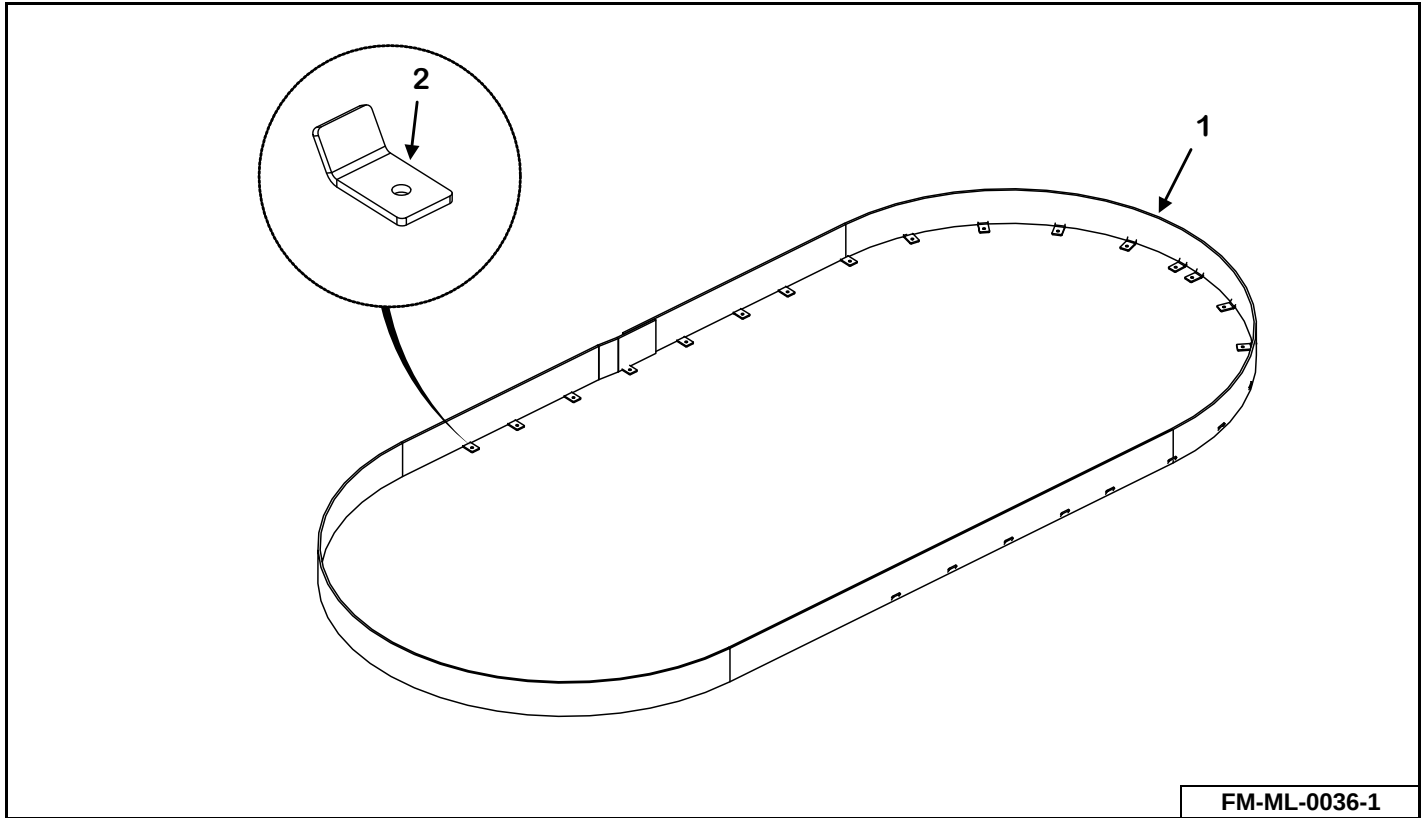
KEY	DESCRIPTION	PAGE #
1	HAY RETAINING RING	134
2	8" CAPACITY EXTENSION	135
3	TIP OFF	136
4	REMOTE SCALE MOUNT	138
5	RUBBER SIDE DOOR CHUTE ASSEMBLY	140
6	CONVEYOR HANGING MAGNET & WEIGHT ASSEMBLY	142

HAY RETAINING RING



KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	MS4-1-4-0001	1	Hay Retention Ring End Weldment	425
	MS4-1-5-0001	1	Hay Retention Ring End Weldment	510
NS	851-5013-1.5Z	8	1/2"-13 x 1-1/2" Bolt	Both Models
NS	805-0050-Z	16	1/2" Flat Washer	Both Models
NS	815-5013-Z	8	1/2" Nylon Insert Lock Nut	Both Models

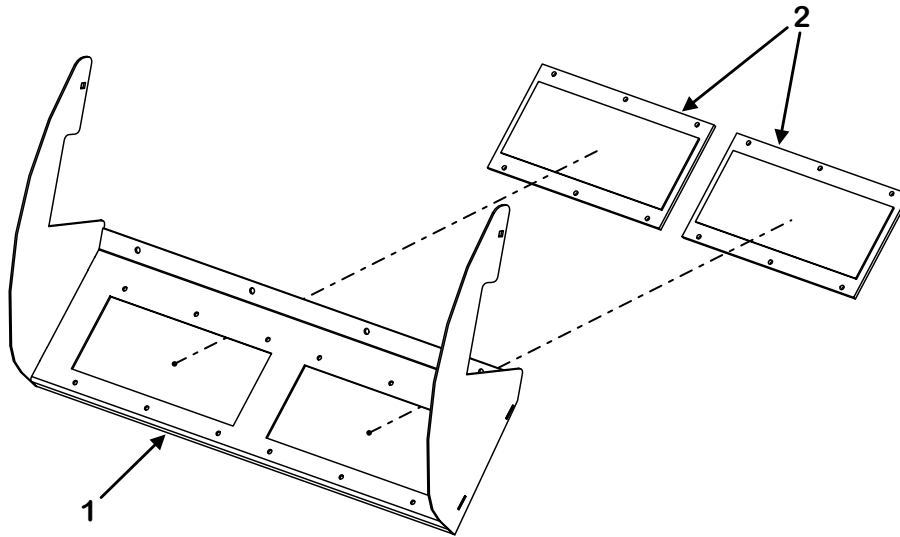
8" CAPACITY EXTENSION



FM-ML-0036-1

KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
0	VSA-0425-CE-8	1	8" Capacity Extension Assembly	425
	VSA-0510-CE-8	1	8" Capacity Extension Assembly	510
1	M11-3-0001	1	8" Capacity Extension .453" x 8" x 53-1/2 FT	425
	M11-4-0001	1	8" Capacity Extension .453" x 8" x 55 FT	510
	805-0038-Z	4	3/8" Flat Washer	Both Models
	815-3816-Z	2	3/8"-16 Nylon Insert Lock Nut	Both Models
	851-3816-1.5Z	2	3/8"-16 x 1-1/4" Grade 5 Machine Bolt	Both Models
2	M4-1-8-0006	34	Belt Extension Mounts	Both Models
	805-0050-Z	16	1/2" Flat Washer	Both Models
	814-5013-Z	34	1/2"-13 Indented Lock Nut	Both Models
	851-5013-1.5Z	34	1/2"-13 x 1-1/2" Grade 5 Machine Bolt	Both Models

TIP OFF
FRONT INCLINE DISCHARGE (CHAIN ONLY) & SIDE DISCHARGE

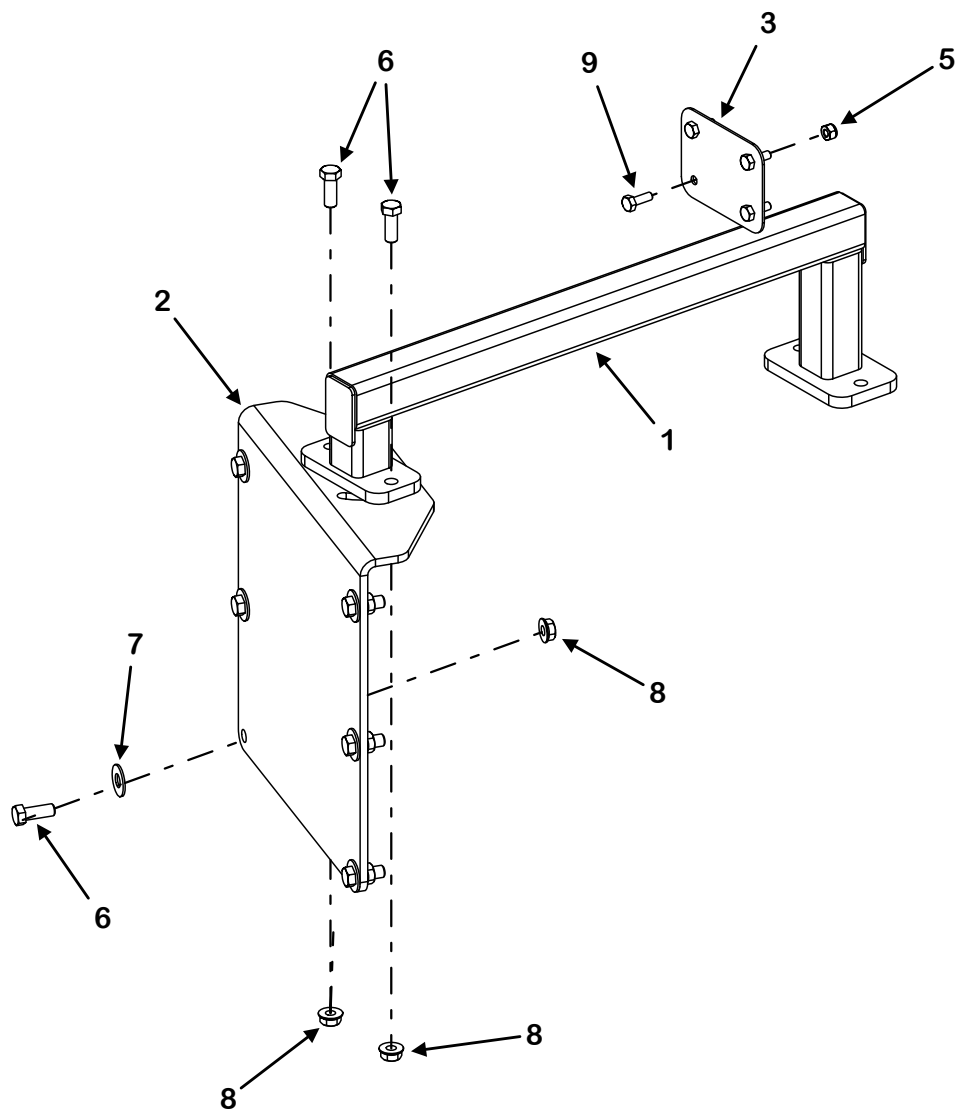


FM-ML-0037-1

KEY	PART NUMBER	QTY	DESCRIPTION
1	M3-1-7-0015	1	Front Incline Conveyor Tip Off Weldment
	810-3816-Z	8	3/8" Spin Lock Nut
	851-3816-.75Z	6	3/8-16 x 3/4" Bolt
	850-3816-.75Z	2	3/8-16 x 3/4" Bolt
2	M11-1-0004	2	15" Discharge Magnet
	802T-3118-.75Z	12	5/16-18 x 3/4" Truss Head Machine Screw
	810-3118-Z	12	5/16-18 Spin Lock Nut



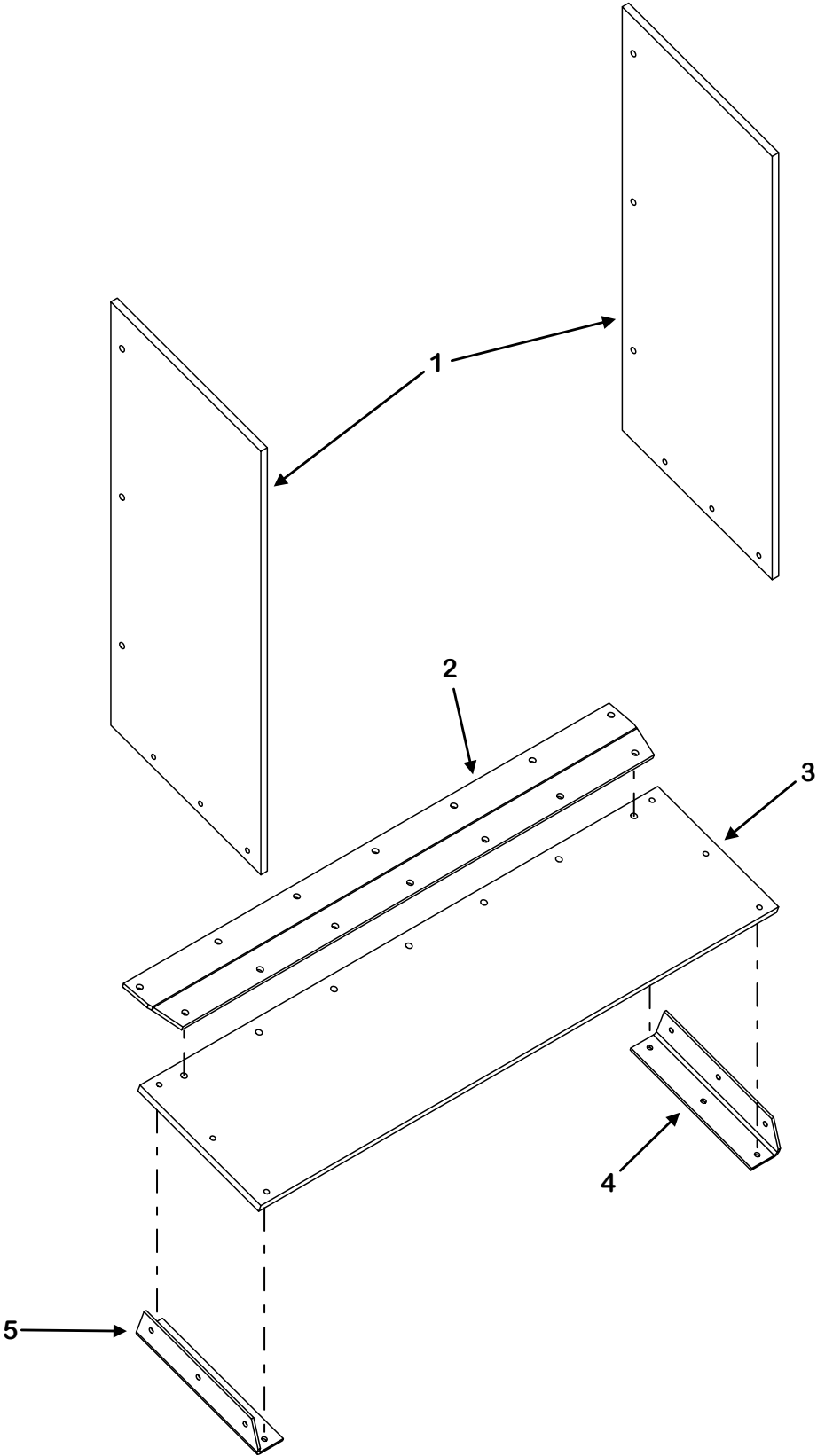
REMOTE SCALE MOUNT



FM-ML-0043-1

KEY	PART NUMBER	QTY	DESCRIPTION
0	VMSCM-405180	1	Remote Display Kit RD400 With TR Kit & 33' Cable/Visor
	VMSCM-405200	1	Remote Display Kit RD400 With 33' Cable/Visor
	VMSCM-407227	1	Remote Display Kit RD250 With 25' Cable
1	M9-1-10-0001	1	Remote Scale Mount Bracket Weldment
2	M9-1-10-0002	1	Remote Scale Mount Bracket
3	M9-1-10-0003	1	Remote Scale Mount Belt Gusset
4	58-0010-405180	1	RD4000 Remote Display Kit W/TR-33' Cable/Visor
	58-0010-405200	1	RD4000 Remote Display Kit W/33' Cable/Visor
5	815-2520-Z	4	1/4"-20 Nylon Insert Lock Nut
6	851-3816-1Z	8	3/8"-16 x 1" Grade 5 Machine Bolt
7	805-0038-Z	6	3/8" Flat Washer
8	810-3816-Z	8	3/8" Spin Lock Nut
9	851-2520-.75Z	4	1/4"-20 x 3/4" Grade 5 Machine Bolt
NS	58-0010-1	1	Remote Cable, Y-Harness For Dual Remote

RUBBER SIDE DOOR CHUTE ASSEMBLY



FM-ML-0040-1

KEY	PART NUMBER	QTY	DESCRIPTION
0	VAS-SDBC-12	1	12" Side Door Belt Chute
	VAS-SDBC-18	1	18" Side Door Belt Chute
1	M11-4-0003-2	2	Chute Side Belt (12" Belt Chute)
	M11-4-0003-2-18	2	Chute Side Belt (18" Belt Chute)
2	M11-4-0003-3	1	Side Door Belt Chute Mount
3	M11-4-0003-1	1	Chute Bottom Belt (12" Belt Chute)
	M11-4-0003-1-18	1	Chute Bottom Belt (18" Belt Chute)
4	M11-5-0002-4	1	Chute Corner Right Side Bracket (Facing Door) (12" Belt Chute)
	M11-5-0002-4-18	1	Chute Corner Right Side Bracket (Facing Door) (18" Belt Chute)
5	M11-5-0002-3	1	Chute Corner Left Side Bracket (Facing Door) (12" Belt Chute)
	M11-5-0002-3-18	1	Chute Corner Right Side Bracket (Facing Door) (18" Belt Chute)
NS	802T-2520-1Z	12	1/4"-20 x 1" Truss Head Machine Screw (12" Belt Chute)
	802T-2520-1Z	20	1/4"-20 x 1" Truss Head Machine Screw (18" Belt Chute)
NS	802T-3118-1.25Z	20	5/16"-18 x 1-1/4" Truss Head Machine Screw
NS	805-0025-Z	12	1/4" Flat Washer (12" Belt Chute)
	805-0025-Z	20	1/4" Flat Washer (18" Belt Chute)
NS	805-0031-Z	13	5/16" Flat Washer
NS	810-3118-Z	7	5/16"-18 Spin Lock Nut
NS	815-2520-Z	12	1/4"-20 Nylon Insert Lock Nut (12" Belt Chute)
	815-2520-Z	20	1/4"-20 Nylon Insert Lock Nut (18" Belt Chute)
NS	815-3118-Z	13	5/16"-18 Nylon Insert Lock Nut

This diagram illustrates the exploded view of a metal frame assembly. The components are labeled as follows:

- 1:** Two rectangular frame sections, one positioned on the left and one on the right, each featuring a central rectangular cutout.
- 2:** A large vertical rectangular plate that serves as the main back panel.
- 3:** A horizontal metal bar with pre-drilled holes, intended to connect the top of the frame sections to the back panel.
- 4:** A vertical metal bar with pre-drilled holes, intended to connect the side of the frame sections to the back panel.
- 5:** A small L-shaped metal bracket designed to secure the horizontal bar (3) to the vertical bar (4).
- 6:** A vertical metal bar with pre-drilled holes, identical to component 4, positioned further to the left.
- 7:** A horizontal metal bar with pre-drilled holes, identical to component 3, positioned at the bottom of the assembly.

Dashed lines indicate the alignment and intended assembly path for each component.

FM-ML-0044-1

Meyer Manufacturing Corporation - 142 - PB-SSM

11.0 SPECIFICATIONS

425 / 510 DIMENSIONS		
	425	510
Overall Length - Side Door / Front Door	193" / 229"	197" / 232"
Mixing Chamber Length	155"	162"
Standard Tire Size	12.5Lx15-12 PLY	12.5Lx15-12 PLY
Optional Tire Size	245/70R-19.5	245/70R-19.5
Optional Tire Size	380/60R-16.5	380/60R-16.5
Overall Height - Base Machine	97"	107"
Overall Height - Belt Extensions	103"	113"
Overall Height - Hay Retention Ring	102"	103"
Tread Width	103"	103"
Transport Width - Front Conveyor / Side Conveyor - W/ 36" Ext.	122" / 131"	123" / 132"
Max Discharge Reach - Front Cross Conveyor - Flat	10"	10"
Max Discharge Reach - Front Cross Conveyor - Incline 24" / 36" / 48" (In Down Position)	29" / 37" / 49"	29" / 37" / 49"
Max Discharge Reach - Side Conveyor - 24" / 36" / 48" / 60" / 72" (In Down Position)	40" / 47" / 58" / 69" / 80"	40" / 47" / 58" / 69" / 80"
Max Discharge Reach - Side Slide Tray	21"	21"
Max Discharge Reach - Side Belt Extension	18"	18"
Max Discharge Height - Front Cross Conveyor - Flat	25"	25"
Max Discharge Height - Front Cross Conveyor - Incline 24" / 36" / 48" (@ 45°)	43" / 49" / 57"	43" / 49" / 57"
Max Discharge Height - Side Conveyor - 24" / 36" / 48" / 60" / 72" (@ 45°)	45" / 51" / 59" / 68" / 76"	45" / 51" / 59" / 68" / 76"
Max Discharge Height - Side Slide Tray	17"	17"
Max Discharge Height - Side Belt Extension	26"	26"

425 / 510 SPECIFICATIONS		
	425	510
Mixing Capacity - No Extension	425 Cu. Ft.	510 Cu. Ft.
Mixing Capacity - Extensions	480 Cu. Ft.	570 Cu. Ft.
Unit Weight - Front Discharge - lbs (Option Sensitive)	N/A	N/A
Unit Weight - Side Discharge - lbs (Option Sensitive)	N/A	N/A
Maximum Net Load - lbs	14,200	16,600
Auger Qty.	1	1
Auger Diameter	107"	107"
Auger Speed - Standard / High Speed	40 RPM	40 RPM
Auger - Upper Flighting Thickness	5/8"	5/8"
Auger - Lower Flighting Thickness	3/4"	3/4"
Auger - Knives - Adjustable - Per Auger	5/7	6/8
Planetary Drive	Straight-Drive	Straight-Drive
PTO Drive	1000 RPM	1000 RPM
Drive Protection	Shear-Bolt	Shear-Bolt
Discharge Door Opening - Front	42" x 40"	42" x 40"
Discharge Door Opening - Side	35" x 40"	35" x 40"
Discharge Door Opening - Rear	42" x 40"	42" x 40"
Discharge - Conveyor Width - Front / Side	36" x 36"	36" x 36"
Discharge - Front Cross Conveyor Travel - Left or Right	8"	8"
Tub / Trailer - Floor Thickness	5/8"	5/8"
Tub / Trailer - Sidewall Thickness	1/4"	1/4"
Tub / Trailer - Trailer or Subframe	Single-Axle	Single-Axle
Tub / Trailer - Spindle Diameter	2-3/4"	2-3/4"
Tub / Trailer - Scale System	4-Point	4-Point
Tongue Weight - % Gross	10%	10%
Tractor Requirement - PTO HP	90	100

FEATURES		
	425	510
Replaceable Scraper	STD	STD
Hardened Knives	STD	STD
Hay Stops	STD	STD
Ladder	STD	STD
Jack Stand	STD	STD
Shear-Bolt PTO's	STD	STD
Straight Drive	STD	STD
Single Axle Trailer	STD	STD

OPTIONS		
	425	510
Side Discharge Door Right/Left	OPT	OPT
Front Discharge Door	OPT	OPT
Rear Discharge Door	OPT	OPT
Front Cross Conveyor	OPT	OPT
Side Door Conveyor	OPT	OPT
Viewing Platform	OPT	OPT
Slide Tray	OPT	OPT
Safety Chain	OPT	OPT
Magnets	OPT	OPT
Hay-Retention Ring	OPT	OPT
Capacity Belt Extension	OPT	OPT
Hardened Knives (Additional)	OPT	OPT

[illegible]

12.0 MAINTENANCE RECORDS

MODEL NO. _____

SERIAL NO. _____

[illegible][illegible]

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