

MERIDIAN

OPERATOR'S MANUAL



FOR TRANSPORT CONVEYORS

www.MeridianMFG.com



**PRODUCT WARRANTY
REGISTRATION FORM - TRANSPORT CONVEYOR**



WARRANTY REGISTRATION

This form must be filled out by the dealer and signed by both the dealer and the customer at the time of delivery. Please mail or fax the completed form for validation of the equipment registration.

Customer's Name _____

Address _____

City, State, Postal Code _____, _____, _____

Phone Number (_____) _____ - _____

PRODUCT INFORMATION

Conveyor Model # _____

Serial Number # _____

DEALER INSPECTION REPORT

- | | |
|--|--|
| <input type="checkbox"/> Conveyor frame raises and lowers properly | <input type="checkbox"/> All guards/shields installed correctly |
| <input type="checkbox"/> Conveyor belt properly aligned | <input type="checkbox"/> All safety signs installed and intact |
| <input type="checkbox"/> Conveyor belt properly tensioned | <input type="checkbox"/> Reflectors in place and clean |
| <input type="checkbox"/> Conveyor drive belts properly tensioned | <input type="checkbox"/> Safety and operating instructions reviewed |
| <input type="checkbox"/> Unit lubricated where necessary | <input type="checkbox"/> Inspect customer's hitch for 1-7/8" ball |
| <input type="checkbox"/> Air pressure correct in tires | <input type="checkbox"/> Verified the receipt of all options ordered |

I have thoroughly instructed the buyer on the above-described equipment, including review of the Operator's Manual content, equipment care, adjustments, operational use, safety procedures, and applicable warranty policy.

Dealer/Company Name _____

City, State, Postal Code _____, _____, _____

Dealer's Signature _____ Date ____/____/____

The above equipment and Operator's Manual have been received by me, and I have been thoroughly instructed as to care, adjustments, safe operation, and applicable warranty policy.

Owner's Signature _____ Date ____/____/____

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2902 Expansion Blvd.
Storm Lake, IA 50588
Phone: 712-732-1780
Fax: 712-732-1028

CERTIFICATE OF ORIGIN TRANSPORT CONVEYOR

LICENSING INFORMATION

Date: ___/___/___

DEALER:

_____ Business
_____ Contact
_____ Address
_____ City, State, Zip

SOLD TO:

_____ Business
_____ Contact
_____ Address
_____ City, State, Zip

CONVEYOR MODEL # _____

CONVEYOR SERIAL # _____

(There are six different models of Transport Conveyors as listed below).

- AF-E-20 (20 foot)
- AF-E-25 (25 foot)
- AF-E-30 (30 foot)
- AF-E-35 (35 foot)
- AF-E-40 (40 foot)
- AF-E-45 (45 foot)

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IMPORTANT INFORMATION

SERIAL NUMBER LOCATION

Please provide the serial number of your Meridian Conveyor and engine when ordering parts or requesting service or other information.

The serial number plates are located where indicated. Please record the numbers in the space provided below for easy reference.

These conveyors have the option of being all electric which would have an "E" in the model number. They could be the hydraulic version, which will have an engine to drive a hydraulic pump to propel the conveyor.



Model Number: _____

Serial Number: _____

PATENT INFORMATION



Meridian continuously enhances its product offering through product improvements and new product innovations. Marketplace feedback, technological innovation, new materials and manufacturing methods, and a philosophy of continuous improvement constantly challenge the company to develop new and better ways of addressing market needs. Meridian is committed to innovation and reinvestment and as a result, the company maintains a portfolio of patents and intellectual property. For more information on our patents please see our website: www.meridianmfg.com/patents

CONTENTS

1.0	INTRODUCTION	10
1.1	Congratulations	10
1.2	Intended Use	10
1.3	Owner/Operator	10
1.4	Ownership Changes	10
1.5	End of Life Disposal	10
1.6	California Codes	10
1.7	Reporting Hazards	10
2.0	SAFETY	11
2.1	General Safety	12
2.2	Equipment Safety Guidelines	13
2.3	Safety Training	13
2.4	Safety Sign	14
2.5	Towing Safety	14
2.6	Pre-operating Instructions	14
2.7	Operating Safety	14
2.8	Storage Safety	14
2.9	Maintenance Safety	14
2.10	Lock-Out or Tag-Out Safety	14
2.11	Sign-Off Form	15
3.0	SAFETY SIGNS	16
3.1	Safety Sign Locations	16
3.2	How to Install Safety Signs	16
3.3	Decal Locations	16
4.0	SPECIFICATIONS	18
4.1	Overall Specifications	18
4.2	Electrical Specifications	19
4.3.1	Bolt Torque Values	20
4.3.2	Grade Markings Chart	20
5.0	CONVEYOR NOMENCLATURE	21
6.0	ASSEMBLY INSTRUCTIONS	22
6.1	Initial Conveyor Assembly	22
6.2	Unloading Instructions	22
6.3	Assembly Instructions	22
6.5	Final Check and Testing	23
6.4	Wheel Bolt Torque Requirements	23
7.0	TOWING	24
7.1	General Towing Safety	24
7.2	Maximum Towing Speed	24
7.3	Inspection Before Towing	24
7.4	Safety Chains	24
7.5	Bystanders	24
7.6	Connection to Tow Vehicle	25
8.0	PRE-OPERATING INSTRUCTIONS	26
8.1	Safety	26
8.2	Conveyor Break-In Period	26
8.2.1	Before Starting	26
8.2.2	Inspections for 1/2, 5, and 10 Hours	26
8.3	Daily Pre-Operation Checklist	26

9.0	OPERATION	27
9.1	Safety.	27
9.2	Before Each Use	27
9.3	Operating Controls	27
	9.3.1 On/Off Switch (Owner Supplied)	27
	9.3.2 Remote Control Switch for Electric Winch (optional)	27
9.4	Raising and Lowering the Conveyor	28
9.5	Conveyor Belt Operation	28
10.0	STORAGE	29
10.1	Storage Safety	29
10.2	General Information.	29
10.3	Placing in Storage.	29
10.4	Removing from Storage.	29
11.0	MAINTENANCE	30
11.1	Safety	30
	11.1.1 General Safety	30
	11.1.2 Lock-Out or Tag-Out Safety	31
11.2	Lubrication.	31
11.3	Conveyor Service Record	32
	11.3.1 Daily (8 Hours)	33
	11.3.2 Weekly (50 Hours)	33
	11.3.3 Annually (400 Hours)	33
11.4	Tires	33
	11.4.1 Tire Safety	33
11.5	Wheel Bearings	34
11.6	Welding Repairs.	34
11.7	Conveyor Belt Replacement	34
11.8	Tensioning Conveyor Belt	36
11.9	Adjust Belt Tracking	37
11.10	Replace or Tighten Drive Belts.	38
	11.10.1 Adjusting Drive Belt Tension	38
	11.10.2 Replacing Drive Belts	38
12.0	TROUBLESHOOTING	39
12.1	Troubleshooting Chart	39
13.0	WARRANTY	40
13.1	Warranty Statement.	40
14.0	PARTS	41
14.1	General Information.	41
14.2	Conveyor Assembly	42
14.3	Tube Assembly with Ends (All Conveyors)	44
	14.3.1 37641 Discharge End (All Conveyors)	46
	14.3.2 38592 Tension System Assembly (All Conveyors)	48
	14.3.3 37637 Receiving End (All Conveyors)	50
	14.3.4 Tube Assembly (20', 25', 30', 35', 40', and 45')	52
14.4	Frame Assembly	54
	14.4.1 A-Frame 20'	54
	14.4.2 A-Frame 25' and 30'	56
	14.4.3 A-Frame 35', 40' and 45'	58

1.0 INTRODUCTION

1.1 CONGRATULATIONS

Congratulations on your choice of a Meridian Manufacturing Conveyor. This conveyor has been designed and manufactured to meet the exacting standards for such equipment in the agricultural industry and will keep your seed delivery system at optimum efficiency.

Safe, efficient, and trouble-free operation of your conveyor requires that you and anyone else who will be operating or maintaining the conveyor, read and understand the Safety, Operation, Maintenance, and Troubleshooting information contained within this manual.

This manual covers the operating procedures and maintenance of the conveyor designed by Meridian Manufacturing Group, Inc. Use the Table of Contents as a guide to locate required information.

1.2 INTENDED USE

The Transport Conveyor is designed to elevate grain being dumped from a vehicle or container and deposited into another conveyor or container. It is not intended to convey any other product, such as fertilizer.

1.3 OWNER/OPERATOR

It is the responsibility of the owner or operator to read this manual and to train all other operators before they start working with the conveyor. Follow all safety instructions exactly. Safety is everyone's business. By following recommended procedures, a safe working environment is provided for the operator, bystanders, and the area around the work site. Untrained operators are not qualified and must not operate the conveyor.

In addition to the design and configuration of the conveyor, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of the conveyor. It is the responsibility of the owner or operator to read this manual and to train all operators before they start working with the conveyors. Follow all safety instructions as provided in this manual.

Keep this manual accessible for easy reference. Call your Meridian Manufacturing Group, Inc. dealer if you need assistance, information, or additional copies of the manuals.

The information, specifications, and illustrations in this manual are those in effect at the time of printing. We reserve the right to change specifications, or design, at any time without notice.

1.4 OWNERSHIP CHANGES

If any of the equipment associated with this conveyor changes ownership, then the new owner(s) must be given all applicable documentation associated with all the components/equipment on the site. The new owners need to notify the individual manufactures of the ownership changes so that updates to product, or documentation, can be forwarded to the new owner(s). This should be done even if the conveyor is out of warranty because many manufacturers supply update notifications as long as they have valid ownership information.

1.5 END OF LIFE DISPOSAL

The Meridian conveyors are designed for the specific purpose of conveying grain. When this conveyor is no longer capable of doing its designed purpose, it should be dismantled and scrapped. Do not use any materials or components from this conveyor for any other purpose.

WARNING

DO NOT use this conveyor, or one of its components, for anything other than the manufacture's original intended use. Not only will the warranty be voided, but the component can fail in the unintended application, creating a hazard to the conveyor and the personnel using the conveyor.

1.6 CALIFORNIA CODES

If this conveyor is assembled in the state of California, then there are some specific codes and warnings that need to be noted. Contact the State of California to determine which codes and warnings apply to the components of the conveyor.

1.7 REPORTING HAZARDS

If any of the equipment associated with this conveyor appears to pose a hazard, then it is the duty of the individual to report it immediately. If the hazard is the conveyor, then the manufacture and site manager must be notified. If the hazard is a process, then the site manager must be notified. Unreported hazards can lead to serious injury or death to personnel.

2.0 SAFETY

SAFETY ALERT SYMBOL

This Safety Alert symbol means
ATTENTION! BECOME ALERT!
YOUR SAFETY IS INVOLVED!



The Safety Alert symbol identifies important safety messages on the Meridian equipment and in the manuals. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

WHY IS SAFETY IMPORTANT TO YOU?

3 Big Reasons

- Accidents Disable and Kill •
- Accidents Cost •
- Accidents Can Be Avoided •

SIGNAL WORDS:

Note the use of the signal words **DANGER**, **WARNING**, and **CAUTION** with the safety messages. The appropriate signal word for each message has been selected using the following guidelines:



CAUTION - Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



WARNING - Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.



DANGER - Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

If you have any questions not answered in this manual, require additional copies of the manual, or the manual is damaged, please contact your dealer or Meridian Manufacturing Group, 2902 Expansion Blvd., Storm Lake, Iowa, 50588, toll free 1-800-437-2334, phone (712) 732-1780, or fax (712) 732-1028.

YOU are responsible for the **SAFE** operation and maintenance of your Meridian Manufacturing Group conveyor. **YOU** must ensure that you and anyone else who is going to operate, maintain, or work on the conveyor be familiar with the operating and maintenance procedures and related **SAFETY** information contained in this manual. This manual will take you step-by-step through your working day and alert you to good safety practices that should be adhered to while operating the conveyor.

Remember, **YOU** are the key to safety. Good safety practices not only protect you but also the people around you. Make these practices a working part of your safety program. Be certain that **EVERYONE** operating this conveyor is familiar with the recommended operating and maintenance procedures and follow all the safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

- Conveyor owners must give operating instructions to operators and employees before allowing them to operate the conveyor, and then annually thereafter per OSHA (Occupational Safety and Health Administration) regulation 1928.57.
- The most important safety feature on this conveyor is a **SAFE** operator. It is the operator's responsibility to read and follow **ALL** Safety and Operating instructions in the manual. Most accidents can be avoided.
- A person who has not read and understood all operating and safety instructions is not qualified to operate the conveyor. An untrained operator exposes himself and bystanders to possible serious injury or death. Always be and stay alert to any possible unsafe operating or maintenance procedures or conditions.
- Do not modify the conveyor in any way. Unauthorized modification may impair the function and/or safety of the components and systems and could affect the life of the conveyor, possibly invalidating the warranty coverage.
- Improper operation, lubrication, maintenance, or repair of this conveyor can be dangerous and could result in injury or death.
- Think **SAFETY!** Work **SAFELY!**

2.1 GENERAL SAFETY

1.  Read and understand the Operator's Manual for all safety signs before operating or maintaining the conveyor.
2.  Have a first aid kit available for use should the need arise and know how to use it.
3.  Have a fire extinguisher available for use should the need arise and know how to use it.
4.  Do not allow riders on the conveyor when it is moving.
5. When working around or operating this conveyor, wear appropriate personal protective equipment. This list includes but is not limited to:







 - A hard hat
 - Protective shoes with slip resistant soles
 - Protective goggles, glasses, or face shield
 - Heavy gloves and protective clothing
 - Respirator
6.  Do not allow long hair, loose fitting clothing, or jewelry around the conveyor as it can be caught in moving parts.
7.  Install and secure all guards before starting the conveyor.
8.   Establish a lock-out or tag-out policy for the work site. Be sure all personnel are trained in and follow all procedures. Lock-out or tag-out all power sources before working around the conveyor.
9.  Clear the area of people, especially small children, before starting.
10.  Review safety related items annually with all personnel who will be operating, using, or maintaining the conveyor.

2.2 EQUIPMENT SAFETY GUIDELINES

1. Safety of the operator and bystanders is one of the main concerns in designing and developing a conveyor. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury or death, study the following precautions and insist those working with you, or for you, follow them.
2. In order to provide a better view, certain photographs or illustrations in this manual may show an assembly with a safety shield removed. However, the conveyor should never be operated in this condition. Keep all shields in place. If shield removal becomes necessary for repairs, replace the shield prior to use.
3. Never use alcoholic beverages or sedative drugs while operating this conveyor. Consult your doctor about operating this conveyor while taking prescription medications.
4. Under no circumstances should young children be allowed to work with this conveyor. Do not allow persons to operate or maintain this conveyor until they have read this manual and have developed a thorough understanding of the safety precautions and how the conveyor works. Review the safety instructions with all users annually.
5. This conveyor is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible, properly trained, and physically able person familiar with farm machinery and trained in this conveyor's operations. If the elderly are assisting with farm work, their physical limitations need to be recognized and accommodated.
6. Never exceed the limits of the conveyor. If its ability to do a job, or to do so safely, is in question - **DO NOT TRY IT.**
7. Do not modify the conveyor in any way. Unauthorized modification may result in serious injury or death and may impair the function and life of the conveyor.

8. In addition to the design and configuration of this conveyor, including Safety Signs and Safety Equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of the conveyor. Also refer to safety messages and operation instruction in manuals for auxiliary equipment and conveyor manuals. Make sure all Safety Signs are affixed to the auxiliary equipment.

2.3 SAFETY TRAINING

1. Safety is a primary concern in the design and manufacture of our conveyors. Unfortunately, our efforts to provide a safe conveyor can be cancelled out by a single careless act of an operator or bystander.
2. In addition to the design and configuration of conveyor, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of this conveyor.
3. The best safety feature is an informed, careful operator. It is the operator's responsibility to read and comply with ALL Safety and Operating instructions in the manual. Accidents can be avoided.
4. Working with unfamiliar conveyor can lead to injuries. Read this manual, as well as the manual for any auxiliary equipment, before assembling or operating to acquaint yourself with the equipment. If this conveyor is used by any person other than yourself, it is your responsibility to make certain that the operator reads and understands the operator's manuals and is instructed in safe and proper use.
5. Know your controls and how to immediately stop the, conveyor belt, and any other auxiliary equipment in an emergency. Read this manual and the one provided with all auxiliary equipment.
6. Train all new personnel and review instructions frequently with employees. Be certain only a properly trained and physically able person will operate the conveyor. A person who has not read and understood all operating and safety instructions is not qualified to operate the conveyor. An untrained operator exposes himself and bystanders to possible serious injury or death.

2.4 SAFETY SIGN

Refer to the Safety Sign Locations Section (Section 3.0) for safety information.

2.5 TOWING SAFETY

Refer to the Towing section (Section 7.0) for safety information.

2.6 PRE-OPERATING INSTRUCTIONS

Refer to the Pre-Operating Instructions section (Section 8.0) for safety information.

2.7 OPERATING SAFETY

Refer to the Operation section (Section 9.0) for safety information.

2.8 STORAGE SAFETY

Refer to the Storage section (Section 10.0) for safety information.

2.9 MAINTENANCE SAFETY

Refer to the Maintenance section (Section 11.0) for safety information.

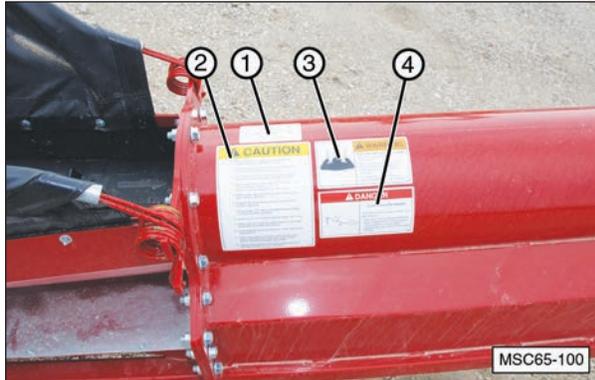
2.10 LOCK-OUT OR TAG-OUT SAFETY

Refer to the Maintenance section (Section 11.0) for safety information.

3.0 SAFETY SIGNS

3.1 SAFETY SIGN LOCATIONS

The types of safety signs and locations on the conveyor are shown in the following pages. Good SAFETY AWARENESS requires that you familiarize yourself with the various safety signs, the type of warning and the area, or a particular function related to that area.



1.  If safety signs have been damaged, removed, become illegible, or parts replaced without signs, new signs must be applied.
2. Replacement parts that displayed a safety sign should also display the current sign.
3. Replacement safety signs (labels) are available from your authorized Dealer Parts Department or the factory at no cost.

3.2 HOW TO INSTALL SAFETY SIGNS

1. Be sure the installation area is clean and dry.
2. Be sure temperature is above 50°F (10°C).
3. Determine exact position before you remove the backing paper.
4. Remove the smallest portion of the split backing paper.

5. Align the sign over the specified area and carefully press the small portion with the exposed sticky backing in place.
6. Slowly peel back the remaining paper and carefully smooth the remaining portion of the sign in place.
7. Small air pockets can be pierced with a pin and smoothed out using a piece of sign backing paper.

3.3 DECAL LOCATIONS

1. Product Serial Number Decal



2. CAUTION — Read and Understand (19934)

 **CAUTION**



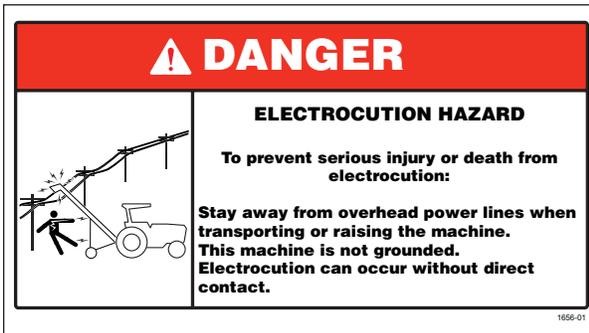
- Read and understand the Operator's Manual before using. Review safety instructions annually.
- Stop engine, remove ignition key, and wait for all moving parts to stop before servicing, repairing, adjusting, loading, filling, or unplugging.
- Keep working area clean and free of debris to prevent slipping or tripping.
- Do not allow riders on the trailer or frame when transporting.
- Only enter seed compartment when it is empty.
- Keep hands, feet, hair, and clothing away from moving parts.
- Do not place hands, arms, or body between seed box and frame or lid to prevent pinching or crushing. Components can move unexpectedly.
- Do not place hands, fingers, or arms between unloading auger tube segments when placing in unloading configuration.
- Stay away from overhead power lines. Electrocutation can occur without direct contact.
- Install and secure all guards before starting.
- Use care when climbing on frame or ladder to prevent slipping or falling.
- Do not smoke when refuelling or working around machine.
- Fasten frame securely to trailer before transporting.
- In two compartment seed tenders, always empty Compartment 2 first to prevent an unbalanced load. An unbalanced load can cause hitch to upend.

19934

3. WARNING — Read and Understand (#1654)



4. DANGER — Electrocutation Hazard (#1656-01)

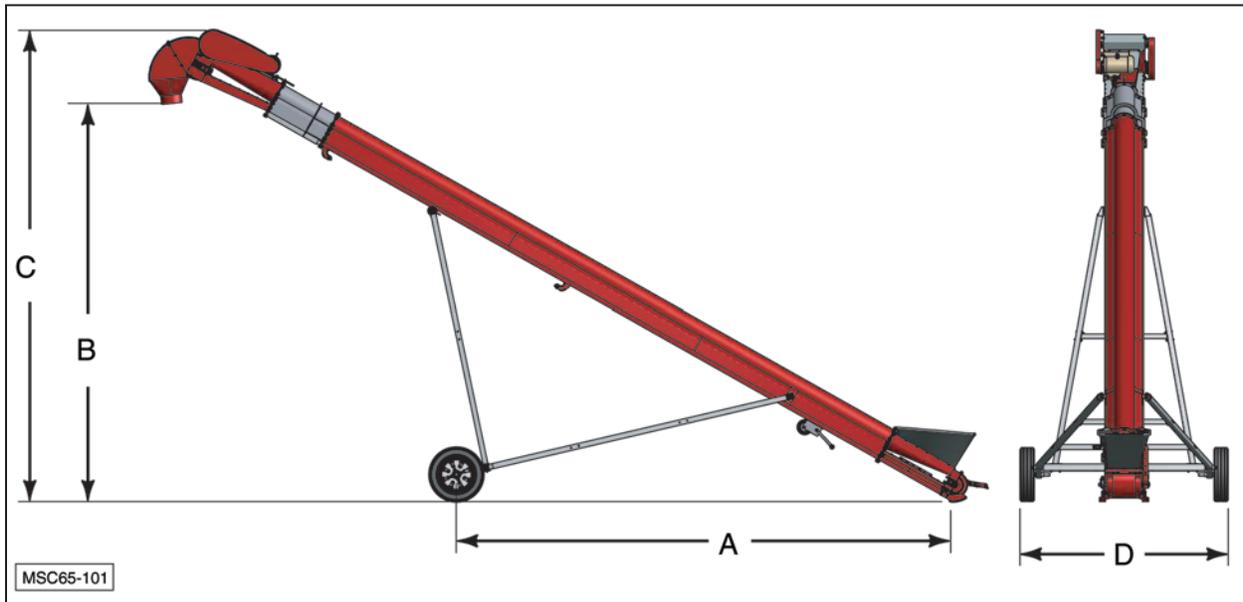


5. DANGER — Upending Hazard (#1655-00-01)



4.0 SPECIFICATIONS

4.1 OVERALL SPECIFICATIONS

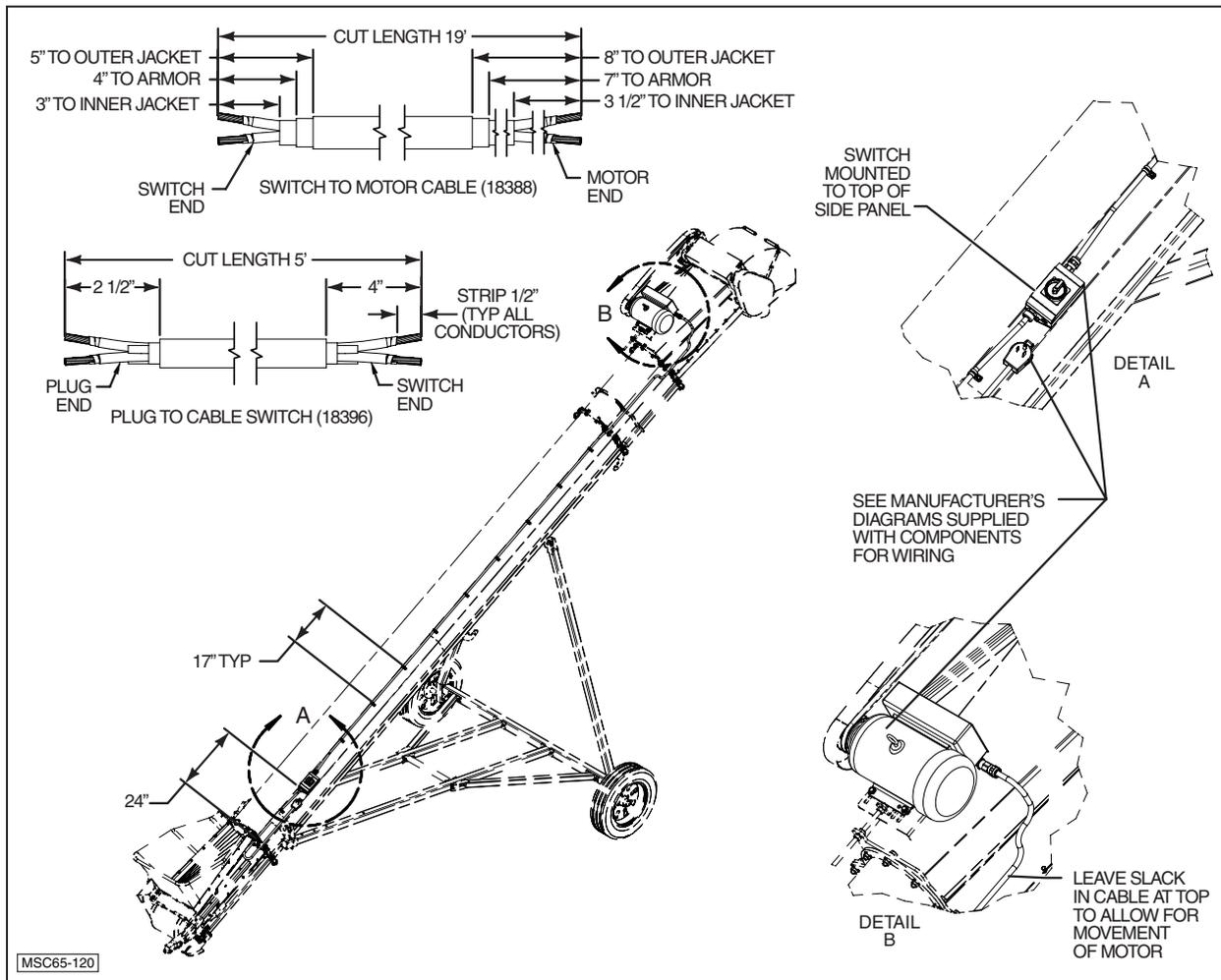


Model	Dimension	Minimum	Maximum
20' AF-E-20	A	9' 10" (300 cm)	9' 5" (274 cm)
	B	9' 1" (277 cm)	12' 3" (373 cm)
	C	12' 9" (389 cm)	14' 11" (455 cm)
	D	101-1/2" (258 cm)	
25' AF-E-25	A	14' 5" (439 cm)	14' 9" (450 cm)
	B	15' 0" (457 cm)	10' 11" (333 cm)
	C	17' 8" (539 cm)	13' 11" (424 cm)
	D	101-1/2" (258 cm)	
30' AF-E-30	A	16' 9" (511 cm)	10' 4" (315 cm)
	B	10' 9" (328 cm)	18' 9" (572 cm)
	C	13' 11" (424 cm)	21' 4" (650 cm)
	D	101-1/2" (258 cm)	
35' AF-E-35	A	21' 3" (648 cm)	18' 11" (577 cm)
	B	9' 2" (279 cm)	21' 5" (653 cm)
	C	12' 4" (376 cm)	24' 0" (732 cm)
	D	101-1/2" (258 cm)	
40' AF-E-40	A	22' 8" (691 cm)	19' 7" (597 cm)
	B	8' 3" (252 cm)	25' 1" (765 cm)
	C	11' 7" (353 cm)	27' 8" (843 cm)
	D	101-1/2" (258 cm)	
45' AF-E-45	A	25' 0" (762 cm)	22' 1" (673 cm)
	B	10' 6" (320 cm)	28' 2" (859 cm)
	C	13' 10" (422 cm)	30' 9" (937 cm)
	D	101-1/2" (258 cm)	

4.2 ELECTRICAL SPECIFICATIONS

There are different Voltage and phase options available for the transport conveyors. The table below lists these various options and the corresponding part numbers. These components must be purchased separately.

Electrical Motor Options And Specifications			
Conveyor Length	Motor Size and Voltage	Motor Part Number	Full-Load Amps
20',25',30',35'	5HP 1PH 220V	27362	20.5
20',25',30',35'	5HP 3PH 220V	18369	12.8
20',25',30',35'	5HP 3PH 460V	18369	6.4
20',25',30',35'	5HP 3PH 600V	18370	5.1
40',45'	7.5HP 1PH 220V	18371	33.6
40',45'	7.5HP 3PH 220V	18372	18.6
40',45'	7.5HP 3PH 460V	18372	9.3
40',45'	7.5HP 3PH 600V	18373	7.4



Note: The drawing above is for reference only and can be used by the installer of the electrical wiring.

4.3 BOLT SPECIFICATIONS

⚠ WARNING

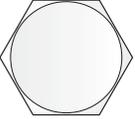
The torque value for bolts and capscrews are identified by their head markings. Replacing higher Grade bolts (Grade 8) with lower Grade bolts (Grade 5) will lead to conveyor failure and can result in injury or death. Always use replacement bolts with the same Grade markings as the removed bolt.

4.3.1 Bolt Torque Values

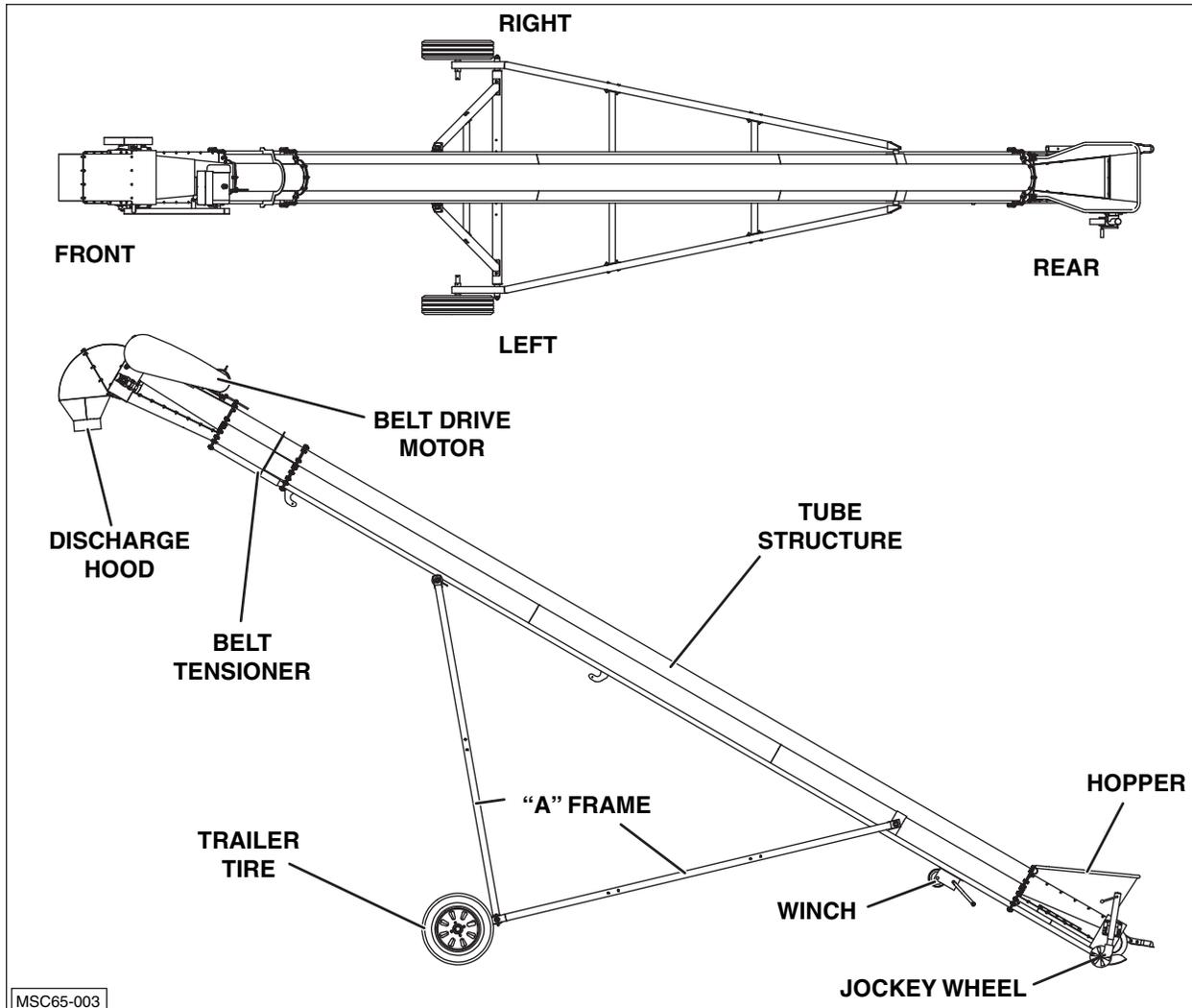
Torque figures indicated above are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or capscrews unless otherwise instructed in this manual. When using locking elements, increase torque values by 5%.

Bolt Diameter A	SAE Grade 2 N·m (ft-lbs)		SAE Grade 5 N·m (ft-lbs)		SAE Grade 8 N·m (ft-lbs)	
	N·m	(ft-lbs)	N·m	(ft-lbs)	N·m	(ft-lbs)
1/4	8	(6)	12	(9)	17	(12)
5/16	13	(10)	25	(19)	36	(27)
3/8	27	(20)	45	(33)	63	(45)
7/16	41	(30)	72	(53)	100	(75)
1/2	61	(45)	110	(80)	155	(115)
9/16	95	(70)	155	(115)	220	(165)
5/8	128	(95)	215	(160)	305	(220)
3/4	225	(165)	390	(290)	540	(400)
7/8	230	(170)	570	(420)	880	(650)
1	345	(225)	850	(630)	1320	(970)

4.3.2 Grade Markings Chart

 No Marking	Grade 2 Low or Medium Carbon Steel
 3 Radial Lines	Grade 5 Medium Carbon Steel Quenched and Tempered
 6 Radial Lines	Grade 8 Medium Carbon Alloy Steel, Quenched and Tempered

5.0 CONVEYOR NOMENCLATURE



When standing at the hopper end, facing toward the front of the conveyor, the side to the left is considered the **Left Side**; the side to the right is considered the **Right Side**.

The end of the conveyor connected to a towing vehicle is the back or **Rear**. The discharge or upper end of the conveyor is the **Front**.

The frame components that raise and lower the front end of the conveyor is called the **A-Frame or Scissor Lift**. The trailer tires and wheels are attached to this frame.

The **Tube Structure** is the largest structure of the conveyor. This structure guides the conveyor belt and keeps the grain from spilling from the belt.

The **Belt Drive Motor** is used to propel the conveyor belt. A pair of V-belts attach the drive motor to the conveyor belt drive roller.

The **Discharge Hood** gathers the seed coming off the conveyor belt and directs it downward.

The **Hopper** is located at the rear end of the conveyor and is where the grain is deposited from a transport vehicle or another conveyor. The hopper has a spring loaded bale that allows the canvas sides of the hopper to collapse if contacted by the dumping vehicle.

The **Jockey Wheel** (optional) is attached to the screw jack located beside the hopper. The screw jack is used to lift the lower end of the conveyor off the ground.

The **Winch** is attached to the tube structure near the hopper. A manual crank winch is standard or an optional electric winch kit is available. The winch is used to raise and lower the front end of the conveyor assembly.

The **Belt Tensioner** is a telescoping section of the tube structure used to properly tension the conveyor belt. The belt tensioner has two springs which provide the necessary force to keep the belt tight.

6.0 ASSEMBLY INSTRUCTIONS

6.1 INITIAL CONVEYOR ASSEMBLY

Meridian Transport Conveyor tubes come fully assembled. A minimum number of tools are required to install the frame and check the conveyor before the first use.

Complete the Final Check and Testing in this section to ensure all fasteners are tight and the conveyor is ready to use.

6.2 UNLOADING INSTRUCTIONS

The conveyor tube is shipped fully assembled. Make sure the lifting equipment will safely lift and hold the weight of the conveyor tube.



Lifting Hazard

Review the following chart to determine the weight of the load before making the lifts

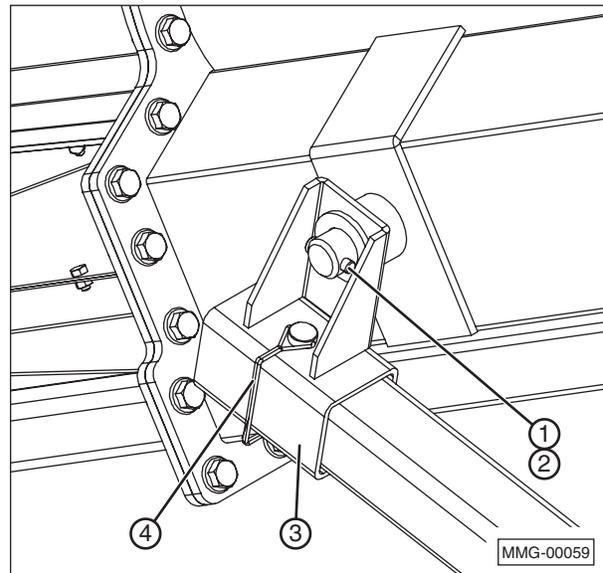
in the next procedures. Failure to have a properly rated lifting device can cause the load to fall, resulting in property and/or person injury, even death.

Approximate Load Weights (Lbs)		
Model	Weight of Conveyor Tube	Weight of Frame
20'	1100	415
25'	1250	490
30'	1350	500
35'	1500	540
40'	1650	560
45'	1800	620

6.3 ASSEMBLY INSTRUCTIONS

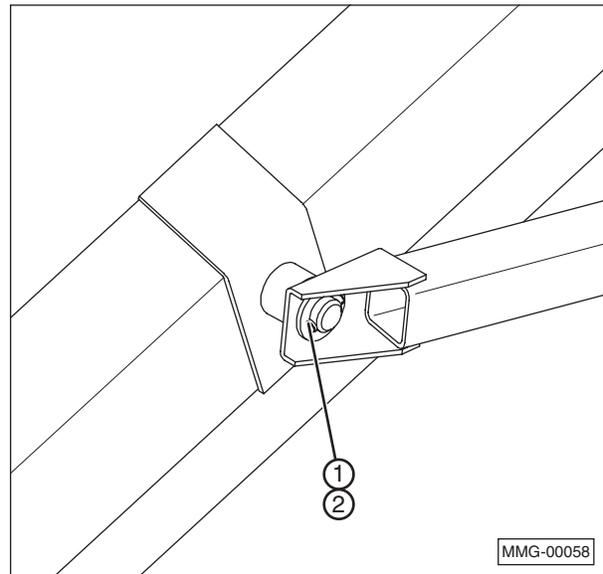
1. Lift the conveyor tube using lifting straps and a properly rated lifting device.
2. If necessary, assemble the frame. Tighten all bolts to their specified torque.
3. Install the wheels. Refer to the Wheel Bolt Torque Requirements section for the proper tightening instructions.
4. Position the conveyor tube over the frame.

5. Attach the frame to the conveyor tube, as shown. Tighten flanged hex nut (2) to the specified bolt torque.



20', 25', and 30' Conveyors.

- (1) Bolt. (2) Flanged Hex Nut. (3) Articulating Mounting Bracket. (4) Locking Clevis Pin.

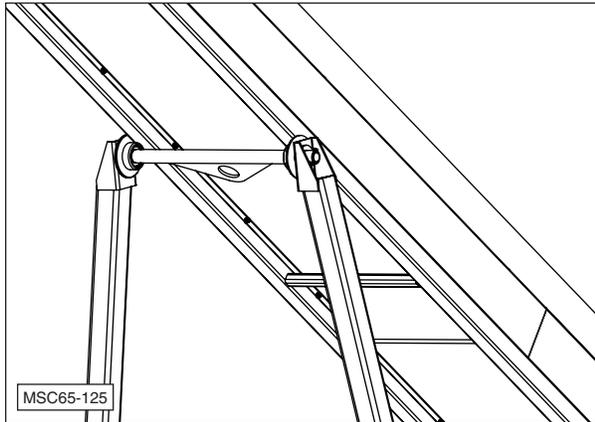


35', 40', and 45' Conveyors.

- (1) Bolt. (2) Flanged Hex Nut.

6. Attach the winch cable to the roller frame member.

- Lower the conveyor tube onto the roller frame.



- Disconnect the lifting straps.
- Recheck the tightness of frame mounting bolts and wheel bolts.
- Recheck the wheel bolt torque at 10, 25, and 50 miles.

6.4 WHEEL BOLT TORQUE REQUIREMENTS

- Initially check the wheel bolt torque at 10, 25, and 50 miles and after each wheel removal.

NOTE: Torque wrenches are the best method to ensure the proper amount of torque is being applied to a wheel nut.

CAUTION



EXPLOSIVE FORCE HAZARD

To prevent injury due to possible dangerous separation of wheels from the axle, the wheel nuts must be maintained at the proper torque levels. Properly maintained wheel nuts prevent loose wheels and broken studs.

- Tighten the wheel nuts in three stages.
 - First stage: 20 to 25 foot pounds.
 - Second stage: 50 to 60 foot pounds.
 - Third stage: 90 to 120 foot pounds.
- Tighten the wheel nuts in a clockwise, cross-axle alternating pattern.

6.5 FINAL CHECK AND TESTING

All line items must be able to have the “Yes” column checked. If the line refers to an option that is not on the conveyor being tested, then “n/a” is to be placed on that line.

Item to Check	Yes	No
Top belt guide is in place.		
Top scraper is in place.		
All covers/shields are in place.		
Conveyor belt tracks in the center of the top roller.		
Conveyor belt tension is correct.		
Drive belt tension is correct.		
Bottom scrapper is in place.		
Bottom belt guide is in place.		
Hopper canvas is in place.		
Lift frame will raise/lower conveyor properly.		
Electric drive motor functions properly.		
Conveyor belt operates in the proper direction (electric motor option).		
Touch up paint is applied where needed.		
All hazard labels are attached.		
Tires are properly inflated.		

7.0 TOWING

7.1 GENERAL TOWING SAFETY

SAFETY INSTRUCTIONS

-  Comply with local, state, and federal laws governing safety and conveyance of farm machinery on public roads.
- Ensure all lights, reflectors, and other lighting requirements are installed and in good working condition.
-  Stay away from overhead power lines. (minimum 10 feet). Electrocutation can occur without direct contact.

⚠ DANGER	
	ELECTROCUTION HAZARD To prevent serious injury or death from electrocution: Stay away from overhead power lines when transporting or raising the machine. This machine is not grounded. Electrocutation can occur without direct contact.

1656-01

- Plan your route to avoid heavy traffic.
- Completely lower the conveyor before transporting.
- Do not drink and drive.
- Be a safe and courteous driver. Yield to oncoming traffic in all situations, including narrow bridges, intersections, etc. Watch for traffic when operating near or crossing roadways.
- Use approved accessory lighting, flags, or other warning devices to protect operators of other vehicles on the highway during daylight and nighttime transport.
- When towing the conveyor on the road or highway, use flashing amber warning lights and/or a slow moving vehicle (SMV) identification emblem.

7.2 MAXIMUM TOWING SPEED

SAFETY INSTRUCTIONS

- Do not exceed a towing speed of more than 20 mph (32 KPH) on a public roadway.
-  Remember, tires supplied by the manufacturer are designed to operate LESS THAN 20 mph (32 KPH). Do not exceed or tire failure may occur.

- Ensure your speed will enable an emergency stop. Keep speed to a minimum. Reduce speed prior to turns to avoid the risk of overturning. Avoid sudden uphill turns on steep slopes.

7.3 INSPECTION BEFORE TOWING

SAFETY INSTRUCTIONS

- Be sure the conveyor is securely hitched to the towing vehicle and a retainer pin or padlock is used through the hitch. Always attach a safety chain between the hitch and the towing vehicle.
- Make sure the hitch and coupling on the towing vehicle are rated equal to or greater than the unit's "gross vehicle weight rating" (GVWR).
-  Check the tires for tread wear, inflation pressure, and overall condition.
-  Inspect the hitch and coupling for wear or damage. DO NOT tow the conveyor using a defective hitch or coupling!
-  Make sure the lug nuts holding the wheels are tight (torque to specifications) and that none are missing.
-  When towing the conveyor on the highway, make sure the "Slow Moving Vehicle" placard is clearly visible.
-  Do not allow anyone to stand between the tongue or hitch and the towing vehicle when backing up to the conveyor.

7.4 SAFETY CHAINS

SAFETY INSTRUCTIONS

- If the conveyor will be transported on a public highway, the safety chain must be attached to the tow vehicle.
-  Always follow state and local regulations regarding a safety chain when towing farm equipment on a public highway.

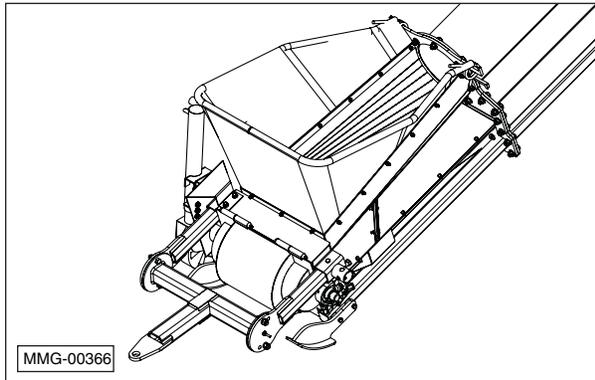
7.5 BYSTANDERS

SAFETY INSTRUCTIONS

-  Make sure the area is clear of children, animals, and other obstacles before using/moving the conveyor! This is particularly important in areas with high noise levels, as you may not hear people shouting.
-  Never allow riders on the conveyor.

7.6 CONNECTION TO TOW VEHICLE

1. Insert the tow hitch into the frame bracket and install the retaining pin.



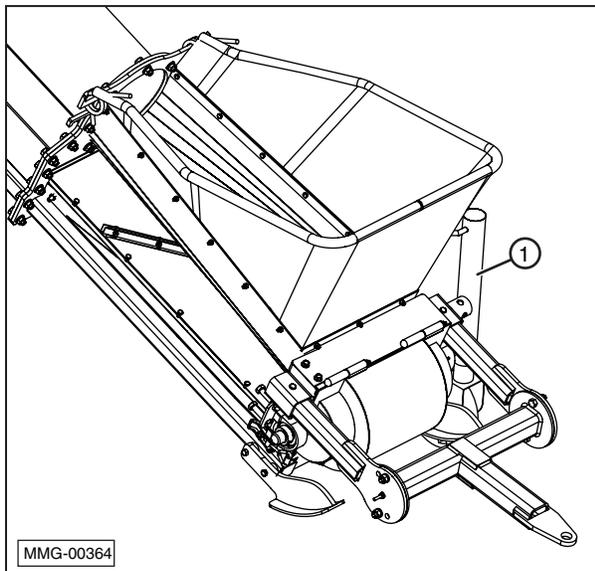
CAUTION



Lifting Hazard

The end of larger model conveyors can be too heavy for one person to lift. If not equipped with a jack, get help to connect conveyor to the tow vehicle.

2. On smaller conveyors, lift the hopper end of the conveyor and attach it to the tow vehicle. On larger conveyors, adjust the height using the jack with its attached jockey wheel (1).



3. Slowly back the tow vehicle until the hitch and ball are aligned.

CAUTION



Crush Hazard

Use care when lifting or attaching the conveyor to the tow vehicle. Never place any part of your body under the tongue assembly.

4. Lower the pintle onto a 1-7/8 inch ball and secure.



5. If equipped, place the jack in its stowed position.

SAFETY INSTRUCTIONS

Collision Hazard

Prior to towing, the conveyor should be completely lowered into the transport position. Failure to comply could result in the conveyor tube colliding with overhead obstacles.

8.0 PRE-OPERATING INSTRUCTIONS

8.1 SAFETY

-  Never operate the conveyor until you have read and completely understand this manual, the engine's Operator Manual, and each of the Safety Messages found on the safety signs.
-  **PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS!** Motors or equipment can be noisy enough to cause permanent or partial hearing loss. We recommend that you wear hearing protection on a full-time basis if the noise in the operator's position exceeds 80 dB. NOTE: Hearing loss from loud noise (tractors, chain saws, radios, and other such sources close to the ear) is cumulative over a lifetime with uncertain natural recovery.
-  Clear working area of debris, trash, or hidden obstacles that might be hooked or snagged, causing injury, damage, or tripping.
- Operate only in daylight or good artificial light.
- Be sure the conveyor is properly positioned, adjusted, and in good operating condition.
-  Ensure all guards, shielding, and safety signs are properly installed and in good condition.
-  Before starting, visually inspect the conveyor for loose bolts, worn parts, cracks, leaks, or frayed belts. Make necessary repairs and always follow maintenance instructions.

8.2 CONVEYOR BREAK-IN PERIOD

A special break-in procedure has been developed to ensure the integrity of the conveyor when first put into service. Follow the Before Starting instructions and then follow the Inspections for 1/2, 5, and 10 Hours instructions at the appropriate interval.

After completing these instructions, follow the normal service schedule in the Maintenance section.

8.2.1 Before Starting

- Read and follow the instructions in the Operator's Manual.
- Review and follow the Pre-operation Checklist before starting the conveyor.
- Check the wheel bolt torque as listed in the service schedule. Refer to the Wheel Bolt Torque Requirements section in this manual for tightening instructions.
- Start the conveyor and check the controls. Be sure they function properly.

8.2.2 Inspections for 1/2, 5, and 10 Hours

- Recheck the tension and alignment of the conveyor belt.
- Recheck all fasteners and wheel bolts. Tighten to their specified torque.

8.3 DAILY PRE-OPERATION CHECKLIST

Efficient and safe operation of the Meridian conveyor requires that each operator reads and follows the operating procedures and all related safety precautions outlined in this section.

A pre-operational checklist is provided for the operator. It is important for both personal safety and maintaining the efficient operation of the delivery system that this checklist be followed.

Before operating the delivery system and each time thereafter, the following areas should be checked:

- Lubricate the conveyor, as outlined and shown in the Maintenance section of this manual.
- Check hardware and fasteners; conveyor frame to transport wheels, hitch pins, bolts, and all other fasteners. Tighten to their specified torque.
- Make sure the wheel bolt lug nuts are tight.
- Check the tires and ensure they are inflated to their specified pressure.
- Remove all entangled material.
- Visually inspect the conveyor belts, conveyor belt tube, and delivery spout for damage.
- Check the tension of the conveyor belt. Follow the instructions in the manual to correct the tension and/or alignment.

9.0 OPERATION

9.1 SAFETY

WARNING

To prevent serious injury or death, follow these safety instructions



Entanglement Hazard

Keep hands and clothing clear of moving parts.



Crush Hazard (rollover)

Do not clean, lubricate, or make adjustments without blocking the wheels.



Overturn Hazard

Pick a level (flat) route when transporting the conveyor. Avoid the edges of ditches, gullies, or steep hillsides.



Safe Distance

Keep all bystanders, pets, and livestock clear of the work area, particularly when moving the conveyor.

SAFETY INSTRUCTIONS



Make sure anyone operating the conveyor or working on or around the conveyor reads and understands all the operating, maintenance, and safety information in the operator's manual and other related OEM equipment manuals before using or towing the conveyor.

9.2 BEFORE EACH USE

1. Ensure all safety guards are in place.
2. Ensure bystanders are away from moving parts.
3. Check all electrical cords for damage and bare wires. Repair, or replace, damaged wiring before using the conveyor.
4. Check the belts for any tears and signs of wear. Replace if necessary.

9.3 OPERATING CONTROLS

9.3.1 On/Off Switch (Owner Supplied)

The conveyor belt operates on 220, 460, or 600 Volts AC, and the electric winch, if equipped, operates on 110 Volts AC. An owner installed ON/OFF switch, similar to the one shown below, can be used to start and stop the conveyor belt. This particular switch can be padlocked in the OFF position to prevent unwanted usage of the conveyor.



Potential ON/OFF Switch

9.3.2 Remote Control Switch for Electric Winch (optional)



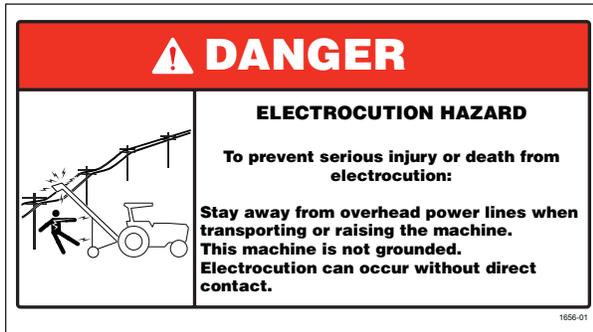
1. The remote control switch has two rocker switches to control the electric winch.
2. The In and Out switch is used to lower or raise the conveyor.
3. The Run and Off switch provides power to the winch. Make sure the switch is in the Off position when not using the winch.

NOTICE

To prevent damage to the electric winch, release the Run button before changing directions of the winch (In/Out).

9.4 RAISING AND LOWERING THE CONVEYOR

1. Check for overhead obstructions or electrical lines before raising the conveyor.



2. Use either the electric or manual winch to raise or lower the conveyor.



3. For manual winch operation, turn the crank clockwise to raise the conveyor and counterclockwise to lower it.



⚠ WARNING



Pinch Point Hazard

Do not place hands or fingers between moving and/or stationary parts. The weight of the conveyor will easily cause serious bodily injury.

9.5 CONVEYOR BELT OPERATION

Use an owner supplied control switch to start and stop the conveyor belt.

SAFETY INSTRUCTIONS

Ensure all workers in the area of the conveyor have been instructed on how to stop the conveyor in case of emergency.

10.0 STORAGE

10.1 STORAGE SAFETY

CAUTION



Crush Hazard

Use care when lifting or attaching the conveyor to the tow vehicle.

Never place any part of your body under the tongue assembly.

10.2 GENERAL INFORMATION

After harvesting, or when the conveyor will not be used for a period of time, completely inspect all major systems of the conveyor. Replace or repair any worn or damaged components to prevent unnecessary downtime during the next use.

10.3 PLACING IN STORAGE

1. Remove all seed from the conveyor.
2. Store the conveyor in a dry, level area.
3. Thoroughly wash the conveyor with a pressure washer or water hose to remove all dirt, mud, or debris. Inspect rotating parts for entangled material. Remove all entangled materials.
4. Check the condition of the conveyor belts and delivery spout. Replace or adjust, as required.
5. Touch up paint nicks and scratches to prevent rusting.
6. It is best to store the conveyor inside and if that is not possible, cover with a waterproof tarp and tie down securely.

10.4 REMOVING FROM STORAGE

When removing the conveyor from storage, follow this procedure:

1. Remove the tarp, if covered.
2. Review and follow the Pre-Operation Checklist.
3. Review and follow the Service Checks in the Maintenance section.

11.0 MAINTENANCE

11.1 SAFETY

11.1.1 General Safety

SAFETY INSTRUCTIONS

1. Good maintenance is your responsibility. Poor maintenance is an invitation for trouble.
2. Follow good shop practices. Keep service area clean and dry. Be sure electrical outlets and tools are properly grounded. Use adequate light.
3.  Never work under conveyor unless it is securely blocked.
4.  Always use personal protection devices, such as eye, hand, and hearing protectors, when performing any service or maintenance.
5.  Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your conveyor to the original specifications. The manufacturer will not be responsible for injuries or damages caused by use of unapproved parts and/or accessories.
6.   A fire extinguisher and first aid kit should be readily accessible while performing maintenance on this conveyor.
7.  Periodically tighten all bolts, nuts, and screws and ensure all cotter pins are properly installed to ensure the conveyor is in safe condition.
8.  When completing a maintenance or service function, make sure all safety shields and devices are installed before placing the conveyor in service.
9.  Turn OFF all electrical power and tag-out or lock-out the power source before performing any electrical test or before connecting or disconnecting valve coils or other electrical loads.
10.  Never operate or test any function of the conveyor when people are in an area of a potential crush hazard.
11.  Block the wheels before performing maintenance or repairs.
12.   Use support blocks or safety stands rated to support the load when changing tires or performing maintenance.

13.  Keep hands, feet, clothing, jewelry, and long hair away from any moving parts to prevent them from getting caught.
14.  Understand the service procedure before performing the work. Keep area clean and dry.
15.  Replace all worn or damaged safety and instruction decals.
16.  Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts.
17.  Do not leave tools lying on the conveyor.
18.   Do not modify conveyor or safety devices. Do not weld on the conveyor. Unauthorized modifications may impair its function and safety.

If the conveyor has been altered in any way from the original design, the manufacturer does not accept any liability for injury or warranty.
19.  Never replace hex bolts with less than Grade 5 bolts unless otherwise specified.
20.  Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore the conveyor to original specifications. The manufacturer will not claim responsibility for damages as a result of the use of unapproved parts.

11.1.2 Lock-Out or Tag-Out Safety

1.   Establish a formal Lock-Out or Tag-Out program for your operation.
2.  Train all operators and service personnel before allowing them to work around the seed delivery system.
3.  Provide tags on the conveyor and a sign-up sheet to record tag-out details.

11.2 LUBRICATION

Use the Service Checks information in the Maintenance section to keep a record of all scheduled maintenance.

1. Use an SAE multi-purpose high temperature grease or a multi-purpose lithium base grease.
2. Use only a handheld grease gun for all greasing. An air-powered greasing system can damage the seals on the bearings and lead to early failures.
3. Wipe grease fitting with a clean cloth before greasing to avoid injecting dirt and grit.
4. Replace broken fittings immediately.
5. If fittings will not take grease, remove and clean thoroughly. Also, clean lubricant passageway. Replace damaged fittings.
6. Clean up any spilled fluids immediately to eliminate the slip/fall hazard.

The following images show areas where lubrication is needed.



Conveyor Belt Lower Roller



Conveyor Belt Upper Roller



Lift Frame Pivots

11.3 CONVEYOR SERVICE RECORD

Date:																		
Serviced by:																		
<u>8 hours or daily</u>																		
Inspect Tire Inflation.																		
Check Conveyor Belt Tension and Alignment.																		
Lubricate All Roller Bearings.																		
<u>50 Hours or Weekly</u>																		
Check Tire Pressure.																		
Check Conveyor Belt Tension and Alignment.																		
<u>400 hours or annually</u>																		
Check Wheel Bolt Torque.																		
Check Frame for Cracks and Damages.																		
Check All Lift Linkage Pivot Pins for Damage and Make Sure Retainer Clips are in Place.																		
Check Conveyor Belt for Damage.																		
Check Conveyor Tube for Damage.																		
Check All Roller Bearings for Unusual Noise While Belt Is Operating.																		
Check/Grease Wheel Bearings.																		
Inspect Axle Grease Seal.																		
Inspect Tires for Damage.																		
Check Hopper Canvas for Damage.																		
Thoroughly Clean Conveyor.																		

11.3.1 Daily (8 Hours)

1. Initially check wheel bolt torque at 10, 25, and 50 miles.
2. Check conveyor belt for proper tension and tracking.

11.3.2 Weekly (50 Hours)

1. Check the tension on the conveyor belt. Adjust tension as needed.
2. Check the tire pressure. Inflate the tires to the recommended pressure stated on the tire.

11.3.3 Annually (400 Hours)

1. Check the wheel bolt torque.
2. Repack the wheel bearings and check for excessive end play in the bearings.
3. Check frame and conveyor tube for cracks and damage.
4. Thoroughly clean the entire conveyor.

11.4 TIRES

11.4.1 Tire Safety

WARNING



Explosive Separation Hazard

Do not attempt to mount tires unless you have the proper equipment and experience to do the job. Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosive separation, which may result in serious injury or death.



Explosive Hazard

Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure, resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

WARNING



Flying Objects Hazard

Inflating or servicing tires can be dangerous. Whenever possible, trained personnel should be called to service and/or mount tires

When inflating tires, use a clip-on chuck and extension hose. Always stand to the side of the tire when inflating, and NOT in front of or over the tire assembly.

Make sure the tires are inflated evenly.



Crush Hazard

Make sure the conveyor is completely supported with suitable stands before removing a wheel assembly.

SAFETY INSTRUCTIONS



Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure.



Check tires for low pressure, cuts, bubbles, damaged rims, or missing lug bolts and nuts.



Always install tires and wheels with appropriate capacity to meet or exceed the weight of the conveyor.



Do not exceed 20 mph or tire failure will occur.



Keep wheel lug nuts tightened.

11.5 WHEEL BEARINGS

Each hub for the trailer tires has wheel bearings that are lubricated with grease.

NOTICE

To prevent damage, use only wheel bearing grease when repacking the wheel bearings.

The wheel bearings should be checked and repacked annually for excessive end play.

To adjust the wheel bearings:

1. Raise the axle enough to allow the wheel and tire to freely rotate.
2. Remove the dust cap.
3. Remove the cotter pin from the castle nut and turn the castle nut clockwise until no end play exists in the wheel bearings.
4. Rotate the castle nut counterclockwise until the next available slot in the nut aligns with the hole in the axle shaft.
5. Install the cotter pin and bend over the ends to retain it.
6. Install the dust cap.

11.6 WELDING REPAIRS



Repair welding must be done with care and with procedures that may be beyond the capabilities of the ordinary welder. Before performing any type of welding repair to the conveyor, contact Meridian for approval.

WARNING



Personal Injury Hazard. Repairs or modifications to the trailer frame, trailer tongue, or trailer hitch can result in serious injury or death should these repairs fail.

IMPORTANT NOTICE

Anyone performing a welding repair should be certified in accordance to the American Welding Society (AWS) standards.

11.7 CONVEYOR BELT REPLACEMENT

1. Chock the trailer wheels to ensure they will not roll.



2. Open lower access cover (1) by releasing latch (2) on both sides.

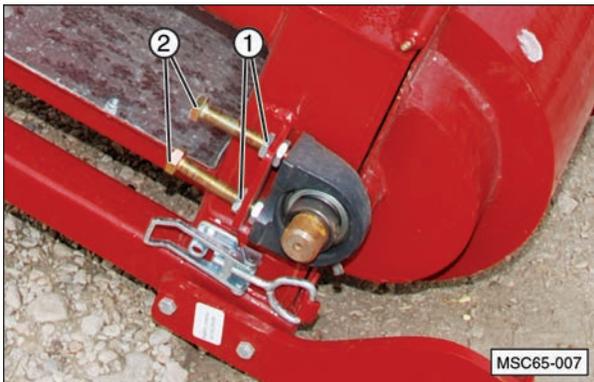


3. It may not be necessary to remove the upper discharge housing to replace the worn conveyor belt.
 - a. If the old belt is in place, attach the new belt to the old one at the splice. Pull the new conveyor belt into place using the old belt.
 - b. If the old belt is no longer inside the conveyor tube, follow the steps below.

- Attach one end of the conveyor belt to 1/4 cable or rope to the loops of the belt connector.



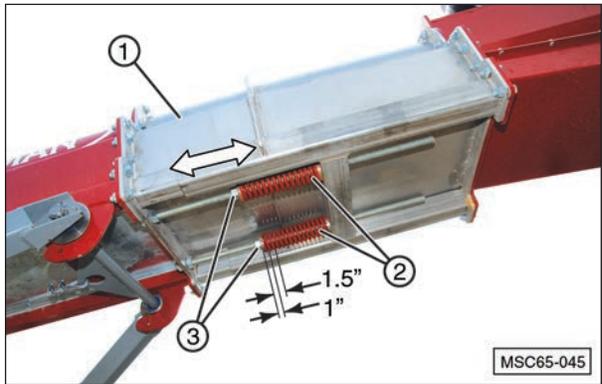
- Pull the conveyor belt into the tube structure with the cable or rope.
- Feed the cable or rope back through the lower chamber of the conveyor tube. This can be done by connecting a weight to a string and letting the weight slide down through the conveyor tube.
- Use the string to pull the cable or rope through the conveyor tube. Then pull the conveyor belt back through the tube so that both ends of the belt are accessible.
- Loosen jam nuts (1) and loosen adjusting bolts (2).



⚠ WARNING

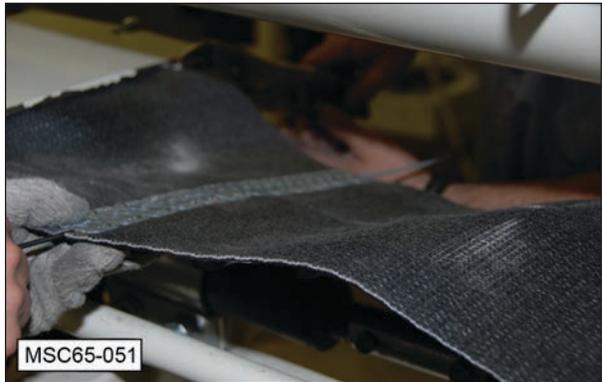
Spring Tension Hazard
Compressed springs can contain enough energy to cause serious bodily injury and even death. Use extreme caution when working around springs that are compressed.

- Loosen the tension on springs (2) and slide belt tensioner unit (1) together enough to allow the ends of the belt to be connected. Rotate nuts (3) counterclockwise to loosen the spring tension.

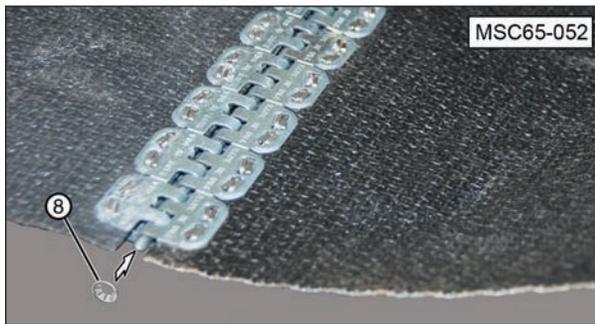


- Join the two ends of the belt together by feeding the plastic covered steel cable through the connector loops.

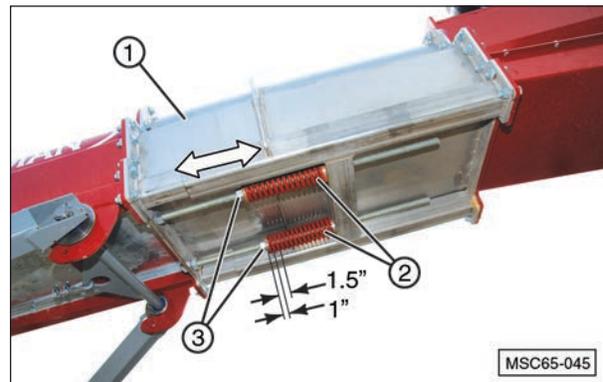
Note: An Allen wrench or small rod can be inserted to help align the loops while pushing the cable in from the opposite side.



- Once installed, place a retainer washer on each end of the cable and crimp it in place to hold the cable.



- Turn adjusting nuts (3) clockwise toward springs (2) until the nut is snug against the spring.



11.8 TENSIONING CONVEYOR BELT

The belt tensioner section contains two springs to provide the appropriate amount of tension on the conveyor belt and guarding against over-tightening the belt, which can reduce belt service life.



- Place a mark on the underside of the conveyor tube at the end of the spring near the adjusting nut.
- Measure 1" (25 mm) from the mark toward the other end of the spring and make a second mark.
- Measure 1-1/2" (38 mm) from the original mark toward the other end of the spring and make a third mark.
- The second and third marks are 1/2" (12 mm) apart and will locate the end of the spring when the belt is properly tensioned.

Note: These two marks will provide reference points when making future belt tension checks.

- Thread nuts (3) equal amounts to place approximately the same tension on each spring.
- After nuts (1) move approximately 1" (25 mm) (and every 1" (25 mm) thereafter), move the discharge end of the conveyor up and down a few times to allow the tension system to slide out.
- Tighten the belt until the ends of both springs (2) are between mark #2 and mark #3.

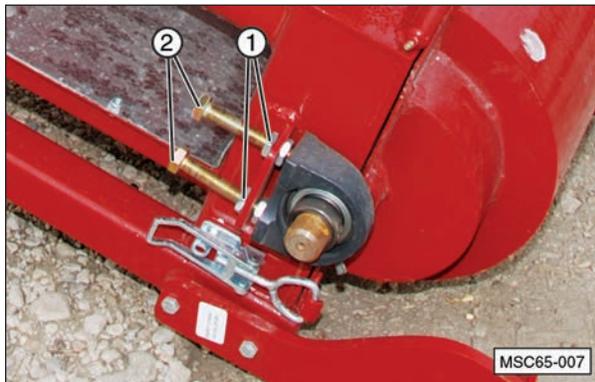
WARNING

 **Spring Tension Hazard**
Compressed springs can contain enough energy to cause serious bodily injury and even death. Use extreme caution when working around springs that are compressed.

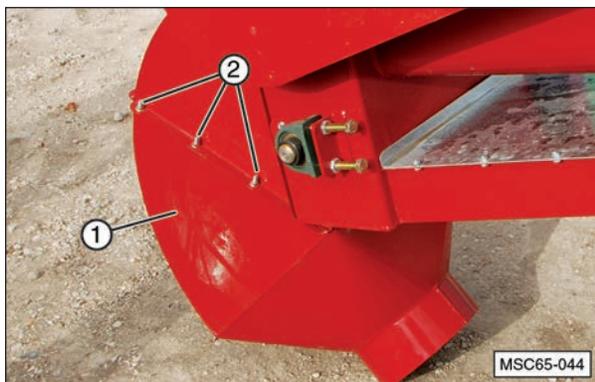
11.9 ADJUST BELT TRACKING

1. Start the belt moving while listening for any unusual noises. Stop the conveyor immediately if unusual noises are heard.

Note: The upper and lower roller tracking adjustments for the belt are on both sides of the conveyor tube.



2. If necessary, remove discharge hood (1) by removing bolts (2). Open lower cover (1) by releasing latches (2).



3. The belt should track in the middle of the top and bottom rollers, as shown.

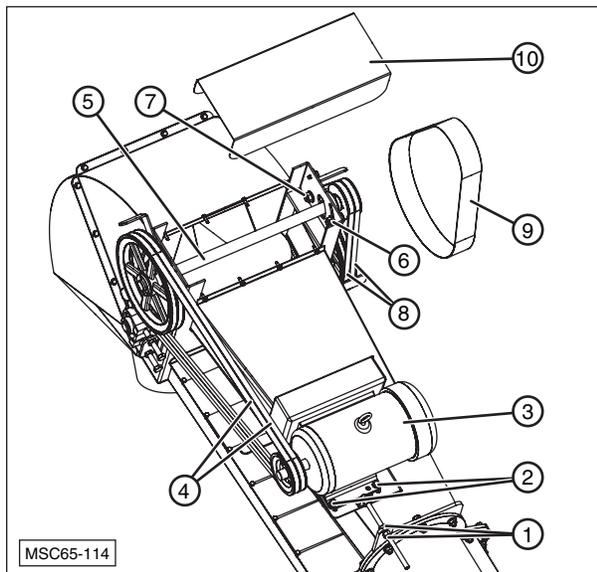


4. Loosen jam nuts (1) on both sides of the conveyor tube.
5. Turn adjusting screws (2) to adjust the tracking of the belt.
6. Once the belt tracking is adjusted, tighten jam nuts (1).
7. Recheck the belt tension.
8. Close the lower access cover and lock the latches in place.



9. If removed, reinstall the discharge hood.

11.10 REPLACE OR TIGHTEN DRIVE BELTS



WARNING

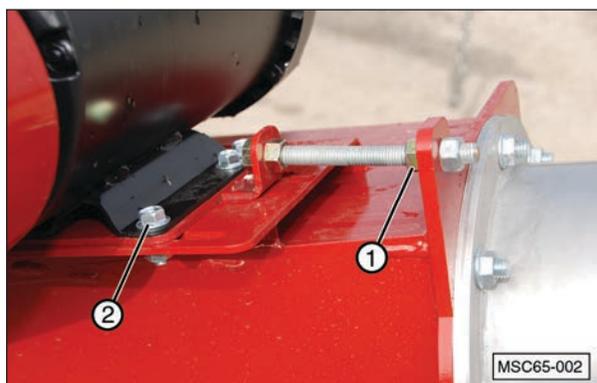
OEM Replacement Parts Only
Using parts from other manufacturers can result in failure of that part, causing equipment damage and possible serious injury or death.

There are two sets of matched V-belts (4 and 8) used to drive the conveyor belt drive roller at the discharge end of the conveyor tube.

This speed reduction provides the proper speed to move the seed and also provides the torque needed to drive the conveyor belt while not overloading the electric motor.

11.10.1 Adjusting Drive Belt Tension

1. Remove covers (9 and 10).



To tighten left side belts (4):

- a. Loosen motor mounting bolts (2) enough to slide the motor.
- b. Loosen jam nut (1) and tighten the adjusting bolt.
- c. Use hand pressure to push on the belts halfway between the pulleys. The amount of deflection should be approximately 1/2" (1.27 cm).

NOTICE

Do not overtighten the belts. Overtightening can reduce belt and bearing life.

- d. When correctly adjusted, tighten the jam nuts.
 - e. Tighten motor mounting bolts (2).
2. To tighten right side drive belts (8):
 - a. Loosen pivot bolt (7).
 - b. Loosen bolt (6) at the adjusting slot enough that it will slide in the slot.
 - c. Place a pry bar under speed reducer shaft (5) and move the shaft to place tension on drive belts (8).
 - d. Tighten adjuster bolt (6) while holding tension on the belts.
 - e. Use hand pressure to push on the belts halfway between the pulleys. The amount of deflection should be approximately 1/2" (1.27 cm).

NOTICE

Do not overtighten the belts. Overtightening can reduce belt and bearing life.

- f. Tighten pivot bolt (7).
- g. Reinstall covers (9 and 10).

11.10.2 Replacing Drive Belts

To replace the belts, loosen the belt tension, replace the belts, and adjust them using the Adjusting Belt Tension procedure.

Note: These belts must be replaced as a matched set or the service life of the belts will be dramatically reduced.

12.0 TROUBLESHOOTING

12.1 TROUBLESHOOTING CHART

PROBLEM	CAUSE	SOLUTION
Conveyor belt will not start.	No electrical power.	Connect electric cable to proper power supply.
	Electrical control broken.	Repair or replace control.
	Drive motor belts are slipping.	Adjust drive belt tension.
	Drive motor belts are broken.	Replace matched set of belts.
	Speed reducer to drive roller belts are slipping.	Adjust belt tension.
	Speed reducer to drive roller belts are broken.	Replace matched set of belts.
	Drive roller slipping on conveyor belt.	Increase conveyor belt tension.
	Drive motor defective.	Check electrical supply to motor. If supply is correct, then repair or replace motor.
Conveyor belt rubbing side of conveyor tube.	The belt is not properly aligned.	See Belt Tracking in this manual.
Lift Frame will not lift the discharge end of conveyor.	Broken lift cable.	Repair or replace lift cable.
	No electrical power.	Connect electric cable to proper power supply.
	Control switch of electric winch broken.	Repair or replace control switch.
	Electric winch motor defective.	Repair or replace motor.
	Hand-crank winch is seized up.	Repair or replace hand-crank winch.

13.0 WARRANTY

13.1 WARRANTY STATEMENT

Limited Materials and Workmanship Warranty For Conveyors

Meridian Manufacturing Group (hereinafter referred to as the Manufacturer) hereby warrants the Conveyor(s) sold by it to be free from defect in material or workmanship under normal use and service for a period of one (1) year parts and labor and a subsequent one (1) year on parts only effective from the date of retail sale. The Manufacturer's obligation under this warranty shall be limited to the repair or replacement only, FOB the original point of shipment, of any defective parts or portions of the conveyor or accessories manufactured by Meridian. Any warranty claim must be reported to the Manufacturer within one (1) year from the date of shipment.

THIS WARRANTY IS SUBJECT TO THE FOLLOWING LIMITATIONS, PROVISIONS AND CONDITIONS:

1. This warranty does not apply:
 - a) To any product sold by the Manufacturer where it is used in areas exposed to corrosive or aggressive conditions including salt water, acids, alkaloid, ash, cement dust, animal waste or other corrosive chemicals from either inside or outside the bin.
 - b) For failures or defects arising out of damage during shipment or during storage on site.
 - c) To materials replaced or repaired under this warranty except to the extent of the remainder of the applicable warranty.
 - d) To damage resulting from misuse, negligence, accident or improper site preparation by others.
 - e) If the product has been altered or modified by others.
 - f) If in the case of coating failures the failure is the result of damage, lack of proper maintenance or failure to remove road salt or other contaminants that may have come in contact with the bin surface.
 - g) To loss of time, inconvenience, loss of material, down time or any other consequential damage.
 - h) For a function that is different than original designed intent.
2. The obligation of the Manufacturer under this warranty shall not arise unless the Manufacturer is notified and this warranty is presented together with a written statement specifying the claim or defect within thirty (30) days after the failure is first detected or made known to the owner and within one (1) year from the shipment date. The Manufacturer in its sole discretion shall determine if the claim is valid and whether correction of the defect or failure shall be made by repair or replacement of the materials.
3. The coating warranty is based on the manufacturer's performance specification for Polyester Powder finishes and does not include repair of minor blemishes or rusting that is normally part of the general maintenance of the conveyor. This warranty does not cover excessive wear on interior coatings. See attachment for full Performance Specification details on Polyester Powder Finishes.
4. The obligation of the Manufacturer hereunder extends only to the original owner and to the Meridian dealer to whom the materials may have been initially sold. This warranty shall not be subject to any assignment or transfer without the written consent of the Manufacturer.
5. The customer shall acknowledge that it has made its own independent decision to approve the use of the supplied materials and also the specific fabrication and construction procedures utilized to complete the conveyor, and has satisfied itself as to the suitability of these products for this particular application.
6. The foregoing sets forth the only warranties applicable to said materials and said warranties are given expressly and in lieu of all other warranties, expressed or implied, statutory or otherwise, of merchantability or fitness for a particular purpose and all warranties which exceed or differ from said warranties herein are disclaimed by the Manufacturer.
7. The owners sole and exclusive remedy against the Manufacturer shall be limited to the applicable warranty set forth herein and the endorsements, if any, issued together with this document and no other remedy (including but not limited to the recovery of assembly or disassembly costs, shipping costs, direct, incidental, special, indirect or consequential damages for lost profits, lost sales, injury to person or property or any other loss, whether arising from breach of contract, breach of warranty, tort, including negligence, strict liability or otherwise) shall be available to the owner or Meridian Dealer or any other person or entities whether by direct action or for contribution or indemnity or otherwise.
8. The financial obligation of the Manufacturer under this warranty shall be limited to the repair or replacement of the product as originally supplied and in no event shall exceed the original cost of the product supplied.
9. The Manufacturer shall not have any obligation under any warranty herein until all accounts for materials, installation and erection of the said product thereof and for labor and other work performed by the Manufacturer or its dealers have been paid in full by the owner.

Warranty Claim Procedure

1. Registering product with Meridian Manufacturing.
2. Contact the dealer unit was purchased from upon discovery of any defects.
3. A completed warranty claim form submitted by dealer to Meridian warranty representative for review and course of action.
4. Warranty repair work will only be performed by Meridian, the dealer or an approved representative. No warranty work completed prior to approval. Failure to follow procedure may affect any or all reimbursement.
5. Claims will be adjudicated at the sole discretion of the manufacturer and in accordance with the terms and conditions of the applicable limited warranty.
6. A complete list of warranty procedures can be procured from the Warranty Department or found in your owner's manual.

Effective July 1, 2012

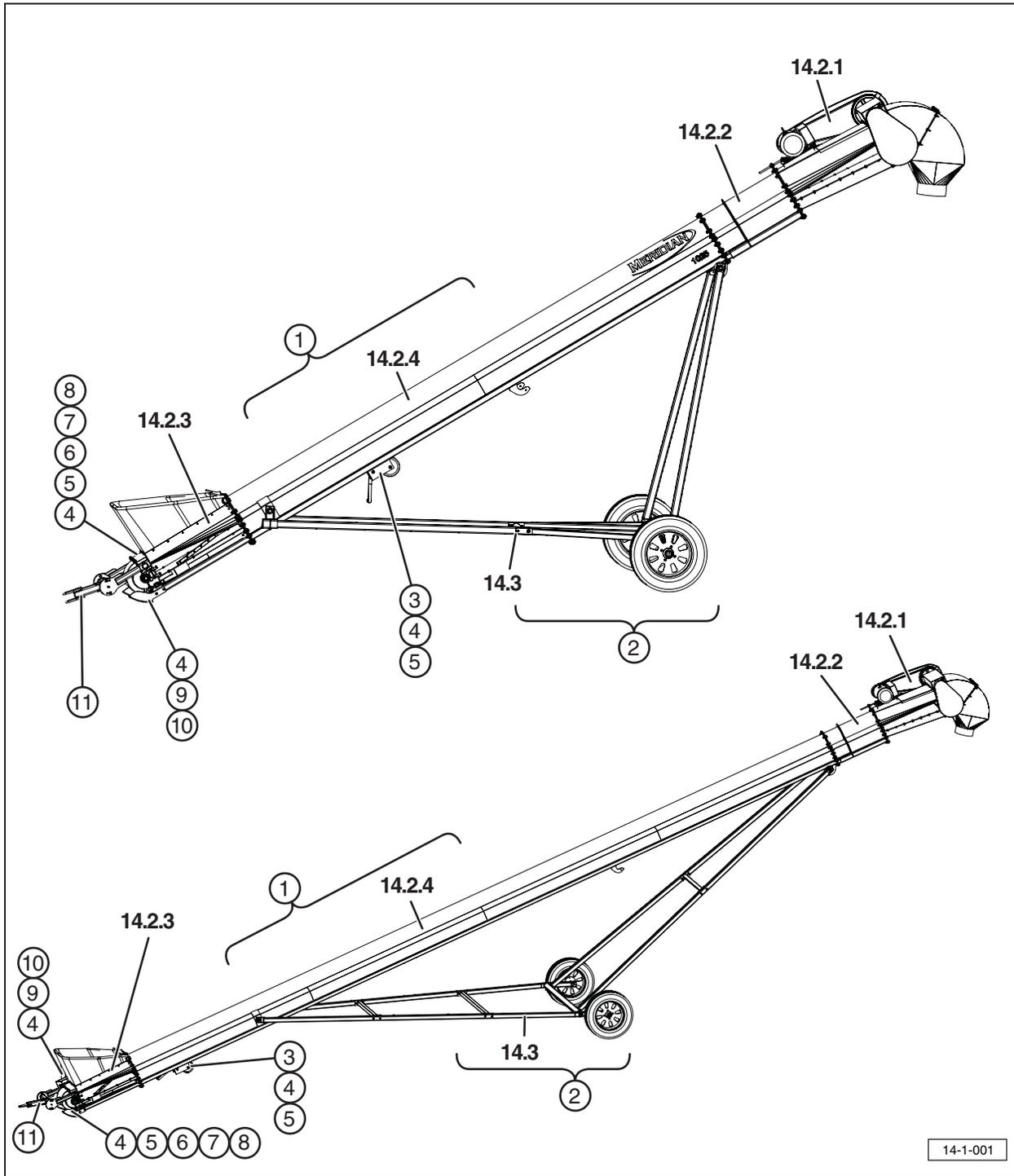
14.0 PARTS

14.1 GENERAL INFORMATION

The following pages contain a list of serviceable parts for the Transport Conveyor. There are six models: 20', 25', 30', 35', 40', and 45'.

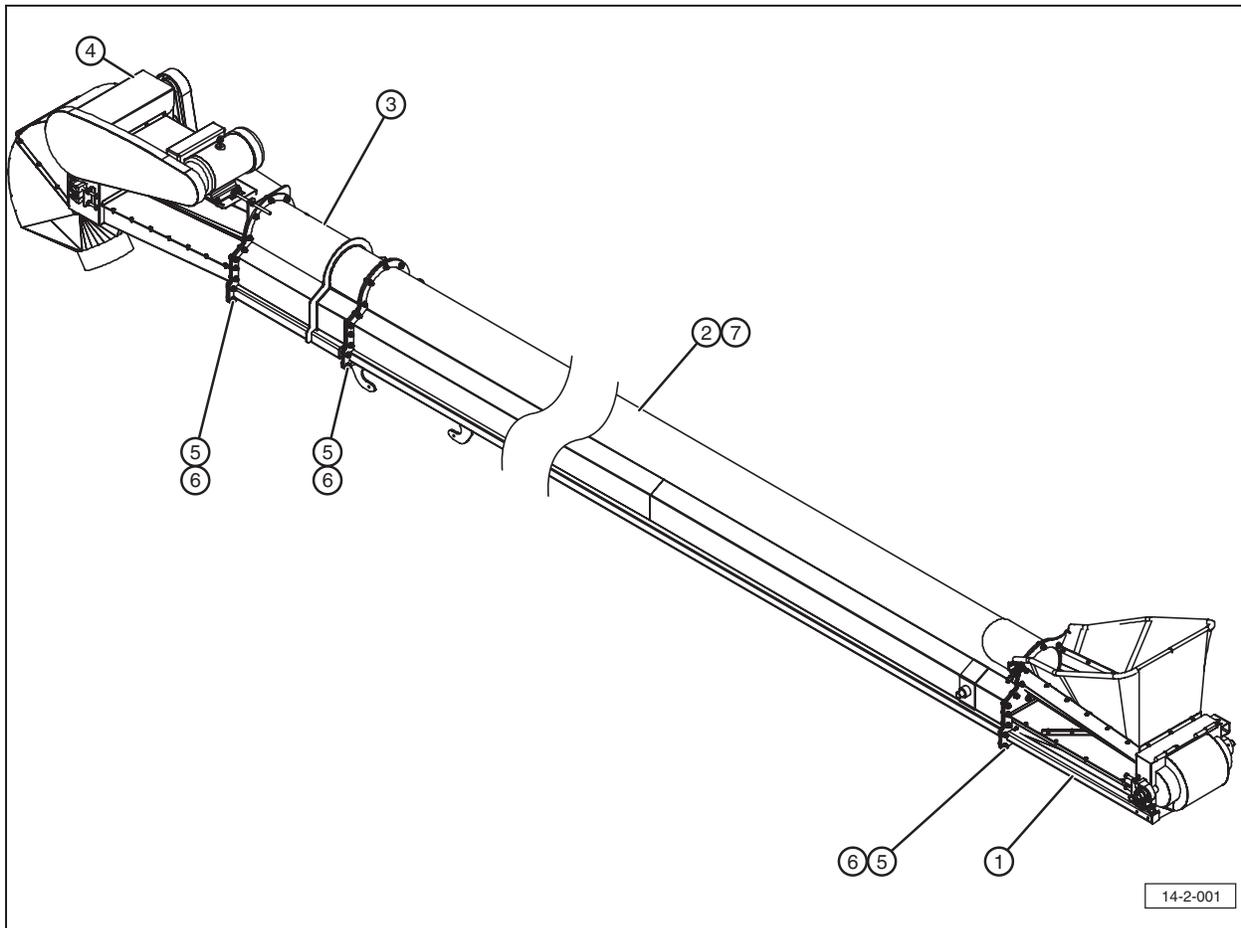
Replacement parts are available from your authorized Dealer Parts Department.

14.2 CONVEYOR ASSEMBLY



ITEM	QTY	PART #	DESCRIPTION
1	1	47356 47331 47333 47332 47338 47340	Conveyor Assembly, A-Frame, Red, 20' Conveyor Assembly, A-Frame, Red, 25' Conveyor Assembly, A-Frame, Red, 30' Conveyor Assembly, A-Frame, Red, 35' Conveyor Assembly, A-Frame, Red, 40' Conveyor Assembly, A-Frame, Red, 45'
2	1	37853 37611 38616 38589 37739 37761	A-Frame, 20' A-Frame, 25' A-Frame, 30' A-Frame, 35' A-Frame, 40' A-Frame, 45'
3	1	38587	Crank Assembly, Winch
4	—	19564	Nut, Hex 3/8-16
5	—	19577	Bolt, Hex, Flanged, 3/8-16 x 3/4"
6	4	19539	Bolt, Hex, Flanged, 3/8-16 x 3"
7	1	37650	Support Boot, Left, Red
8	1	37651	Support Boot, Right, Red
9	1	13000002725-00-00	Jockey Wheel
10	2	19579	Screw, Flanged, Self-Tapping 3/8-16 x 1"
11	1	30083	Hitch, Tube Assembly, Red

14.3 TUBE ASSEMBLY WITH ENDS (ALL CONVEYORS)

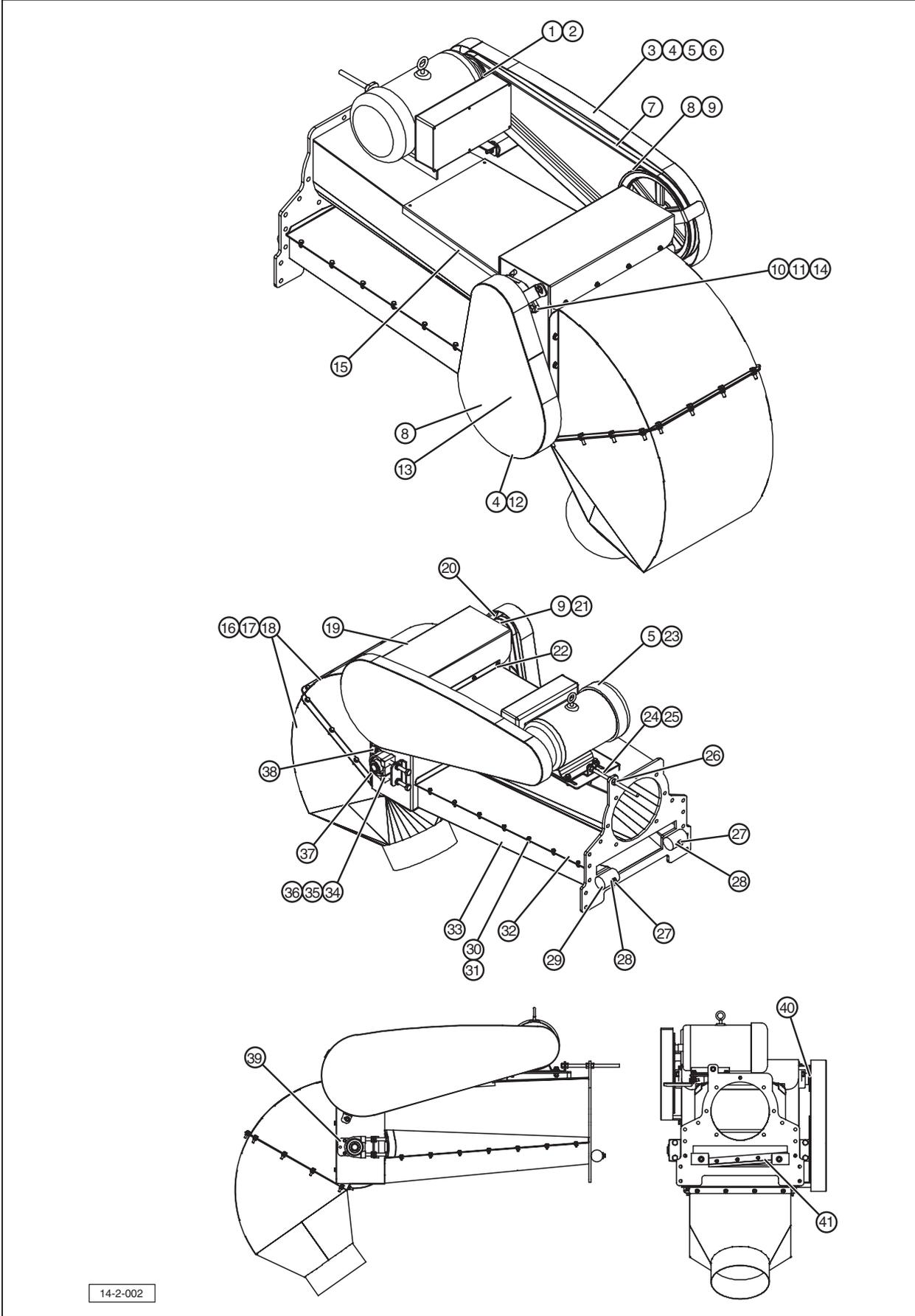


ITEM	QTY	PART #	DESCRIPTION
1*	1	37637	Receiving End, Red
2*	1	37850	Center Assembly, Tube, 20', Red
		37661	Center Assembly, Tube, 25', Red
		37659	Center Assembly, Tube, 30', Red
		37656	Center Assembly, Tube, 35', Red
		37747	Center Assembly, Tube, 40', Red
37769	Center Assembly, Tube, 45', Red		
3*	1	38592	Assembly, Tension System
4*	1	37641	Assembly, Discharge, Red
5	—	19575	Bolt, Hex, Flanged, 1/2-13 x 1-1/2"
6	—	19595	Nut, Hex, Flanged, 1/2-13
7	1	27622	Belt, Meridian 20' Conveyor
		27543	Belt, Meridian 25' Conveyor
		27544	Belt, Meridian 30' Conveyor
		27545	Belt, Meridian 35' Conveyor
		27546	Belt, Meridian 40' Conveyor
		27547	Belt, Meridian 45' Conveyor

* See separate section for additional parts.

NOTES

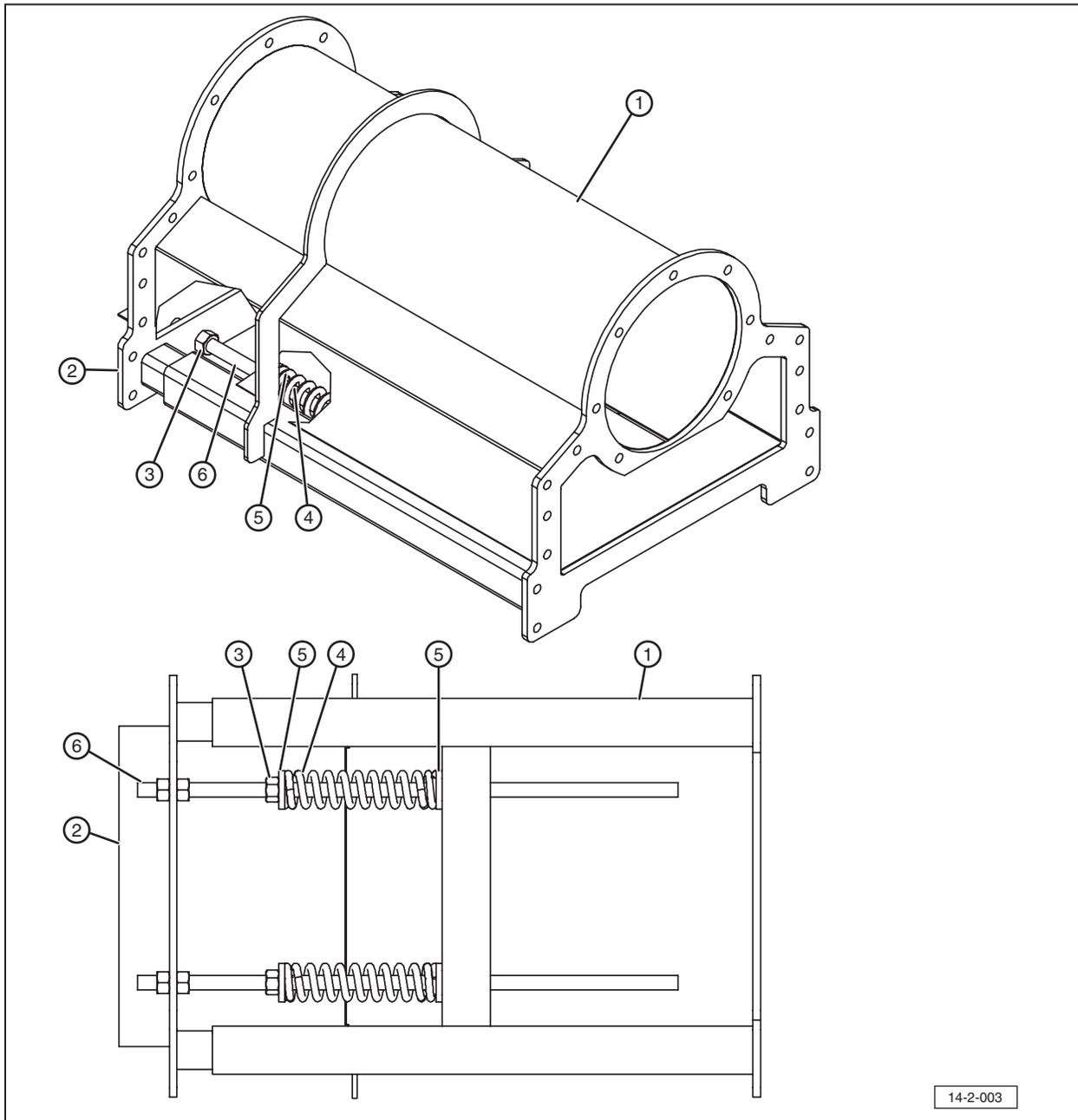
14.3.1 37641 Discharge End (All Conveyors)



14-2-002

ITEM	QTY	PART #	DESCRIPTION
1	1	27465	Pulley, 5" Double Belt B Belt
2	1	17840 17843	Bushing, Split Taper H118 (5 HP) Bushing, Split Taper H138 (7.5 HP)
3	1	37644	Motor, V-Belt Cover Red
4	4	18478	Screw, Flanged, Self-Tapping Type D 3/8-16 x 3/4" Plain Indented Washer
5	5	18680	Bolt, Hex, Flanged, Steel, Mild 3/8-16 x 1-1/4"
6	1	19564	Nut, Hex, Flanged, 3/8-16
7	2	18358	V-Belt, B83
8	2	18345	Pulley, 12" Double Belt B Belt
9	2	27517	Bushing, Split Taper, H114
10	2	27441	Flange, Two-Bolt Bearing Assembly
11	4	18464	Bolt, Hex, 1/2-13 x 1-1/2", Steel, Mild
12	1	37643	Cover, Roller V-Belt, Red
13	1	17839	Bushing, Split Taper, H1
14	4	19595	Nut, Hex, Flanged, 1/2-13
15	1	27733	Cover, Removable Top
16	16	19318	Nut, Hex, Flanged, 5/16-18
17	22	19581	Bolt, Hex, Flanged, 5/16-18 x 1"
18	1	37646	Chute, Discharge Weldment, Red
19	1	27731	Cover, Speed Reducer Shaft
20	2	18426	V-Belt, B48
21	1	27466	Pulley, 4-1/4" Double Belt B Belt
22	12	19597	Screw, 1/4-14 x 3/4" Hex Washer Head Self Drilling
23	1	—	Motor, (See Section 4.2 for Part Numbers)
24	1	27849	Rod, Electric Motor V-Belt Tension
25	1	27632	Slide, Electric Discharge Motor, Red
26	4	19369 MS	Nut, Hex 1/2-13 Steel, Mild
27	2	19330	Bolt, Hex, 3/8-16 x 3 Steel, Mild
28	2	18473	Washer, 3/8 - Wide - Type A Steel, Mild
29	2	27756	Belt Guide, Discharge End, Plastic
30	19	19305	Nut, Hex 1/4-20
31	14	18484	Bolt, Hex, 1/4-20 x 5/8" Steel, Mild
32	1	27781	Cover, Meridian Belt Tray
33	1	37642	Weldment, Discharge, Red
34	2	27467	Block, Bearing Assembly Kal-Pa206
35	4	18475	Bolt, Hex Head M14 x 100 Din En Iso 4017
36	8	18474	Nut, Hex Jam - Metric M14 x 2
37	1	27845	Driving Roller, Inclined Conveyor
38	12	19597	Screw, 1/4-14 x 3/4" Hex Washer Head Self Drilling
39	2	37647	Roller, Insert Cover, Red
40	1	27844	Speed Reducer Shaft
41	1	27779	Scraper, Rubber

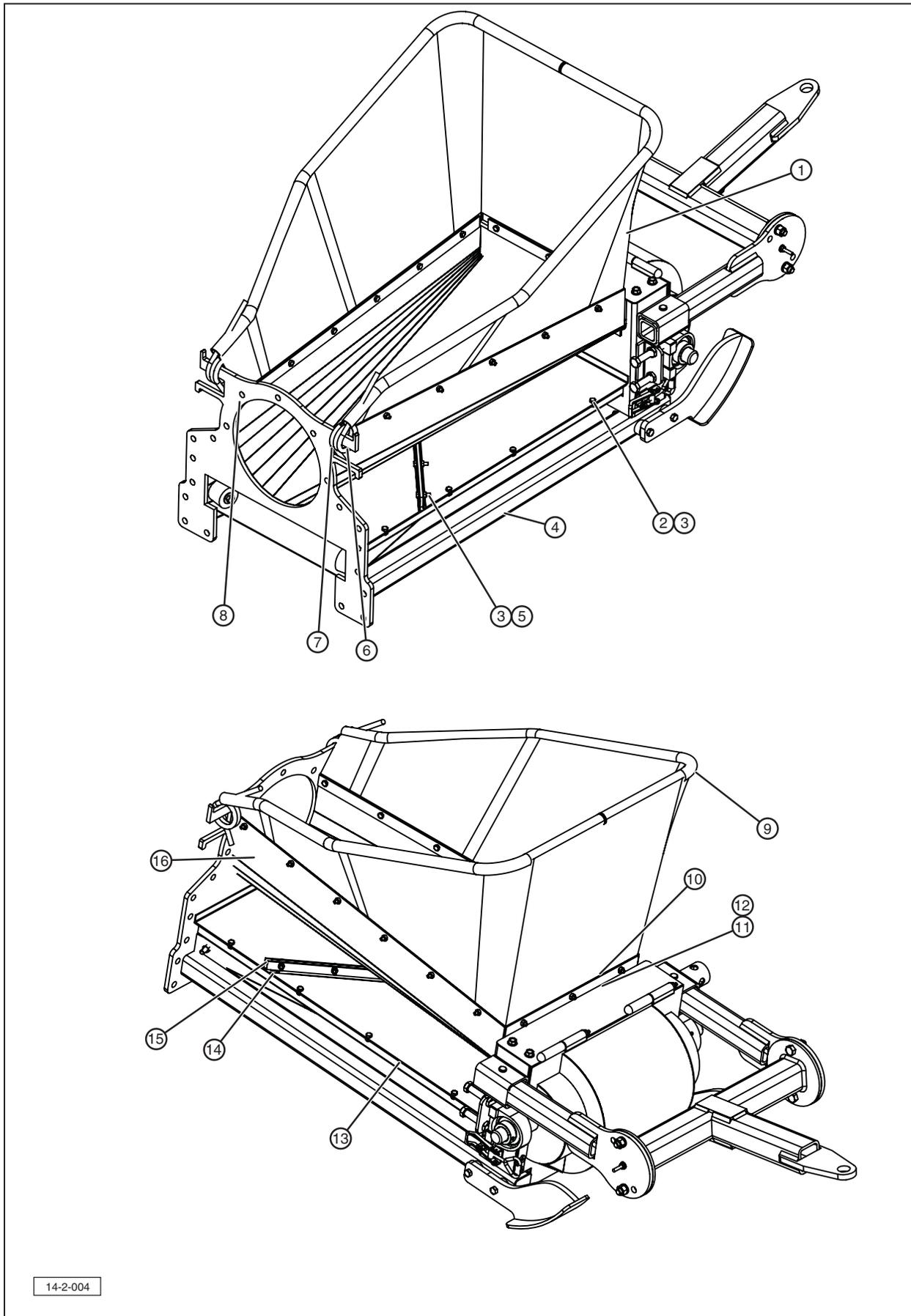
14.3.2 38592 Tension System Assembly (All Conveyors)



ITEM	QTY	PART	DESCRIPTION
1	1	38594	Assembly, Top, Tension System
2	1	38593	Assembly, Tension System
3	6	19394	Nut, Hex 3/4-10 Steel, Mild
4	2	18683	Spring, Compression, 8" Long 2-3/16" O.D.
5	4	27896	Holder, Tension System Spring, Galvanized
6	2	27716	Rod, Tension, System Tension

NOTES

14.3.3 37637 Receiving End (All Conveyors)



14-2-004

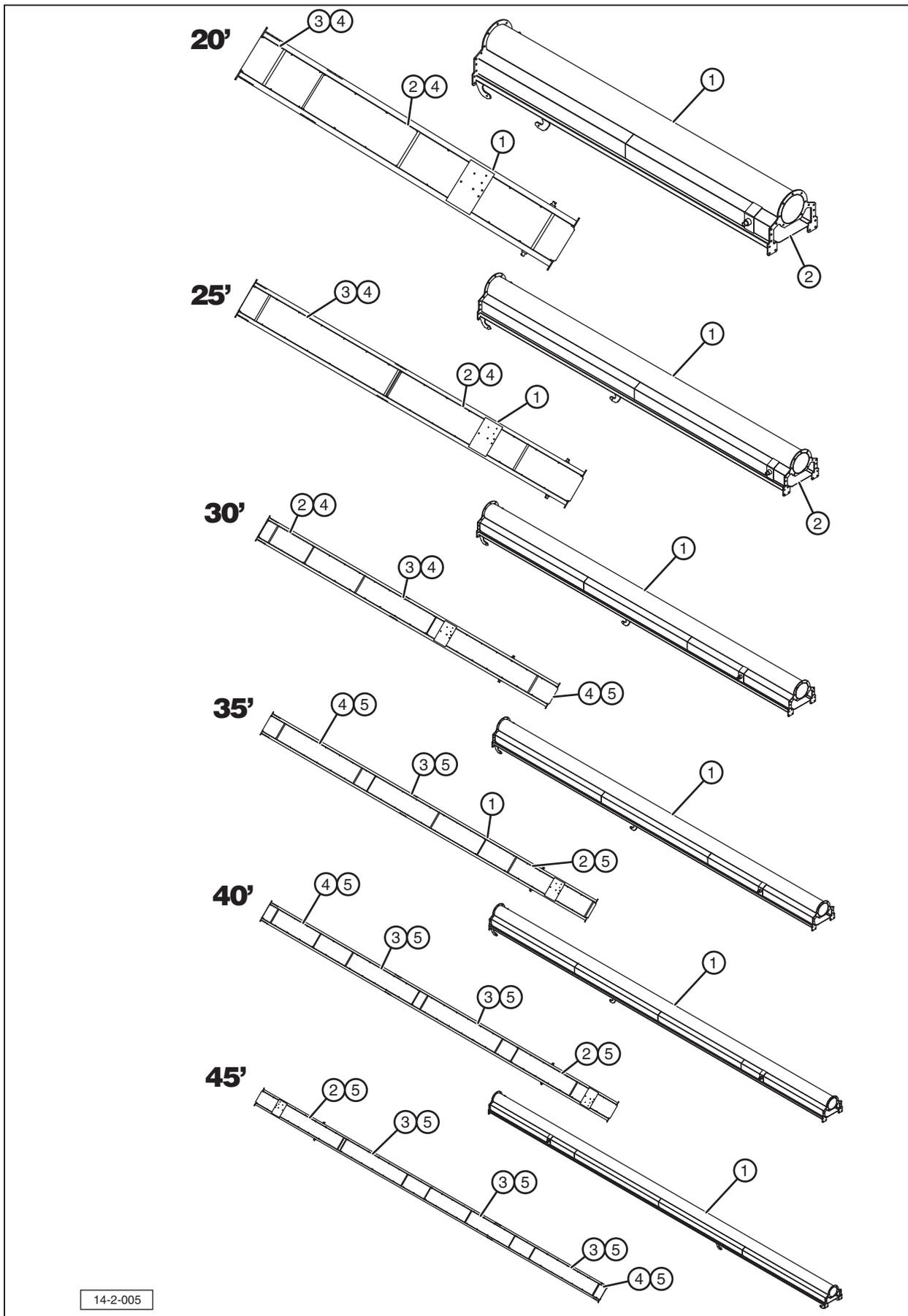
ITEM	QTY	PART #	DESCRIPTION
1	1	27792 11048 17723 17724	Hopper, Canvas (Tall, Narrow) Hopper, Canvas (Short, Narrow) Hopper, Canvas (Short, Wide) Hopper, Canvas (Tall, Wide)
2	29	19305	Nut, Hex 1/4-20
3	8	19300	Bolt, Hex, 1/4-20 x 1/2" Steel, Mild
4	1	37638	Assembly, Receiving End, Red
5	21	19301	Bolt, Hex, 1/4-20 x 1"
6	1	27468	Spring, Left
7	1	27477	Spring, Right
8	1	27794	Cover, Bottom Belt, Galvanized
9	1	36006	Tube, Receiving Canvas
10	1	27791	Plate, Canvas Hopper, Back Hold Down
11	1	27518	Hold Down, Brush 15-3/4"
12	1	27456	Brush, 4"
13	1	27796	Cover, Bottom Belt, Galvanized
14	1	27799	Scraper, Rubber
15	1	27798	Holder, Scraper
16	2	27790	Plate, Canvas Hopper, Hold Down

Note: If you wish to change from the narrow canvas hopper to a wide hopper,
you can purchase one of the following kits:

Part #38658 - Tall/Wide Hopper Kit (includes wide canvas tube and wide/tall canvas)

Part #38659 - Short/Wide Hopper Kit (includes wide canvas tube and wide/short canvas)

14.3.4 Tube Assembly (20', 25', 30', 35', 40', and 45')



TUBE ASSEMBLY 20'			
ITEM	QTY	PART #	DESCRIPTION
1	1	37851	Tube, Painted 20' A-Frame, Red
2	1	27783	Cover, 10" Tube, Galvanized
3	1	27621	Cover, 10" Tube, Galvanized
4	24	19597	Screw, 1/4-14 x 3/4" Hex Washer Head Self Drilling

TUBE ASSEMBLY 25'			
ITEM	QTY	PART #	DESCRIPTION
1	1	37649	Tube, Painted 25' A-Frame, Red
2	1	27783	Cover, 10" Tube, Galvanized
3	1	27621	Cover, 10" Tube, Galvanized
4	32	19597	Screw, 1/4-14 x 3/4" Hex Washer Head Self Drilling

TUBE ASSEMBLY 30'			
ITEM	QTY	PART #	DESCRIPTION
1	1	37660	Tube, Painted 30' A-Frame, Red
2	1	27459	Cover, 10" Tube, Galvanized Bottom
3	1	27785	Cover, 10" Tube, Galvanized Bottom
4	42	19597	Screw, 1/4-14 x 3/4" Hex Washer Head Self Drilling
5	1	27696	Cover, 10" Tube, Galvanized Bottom

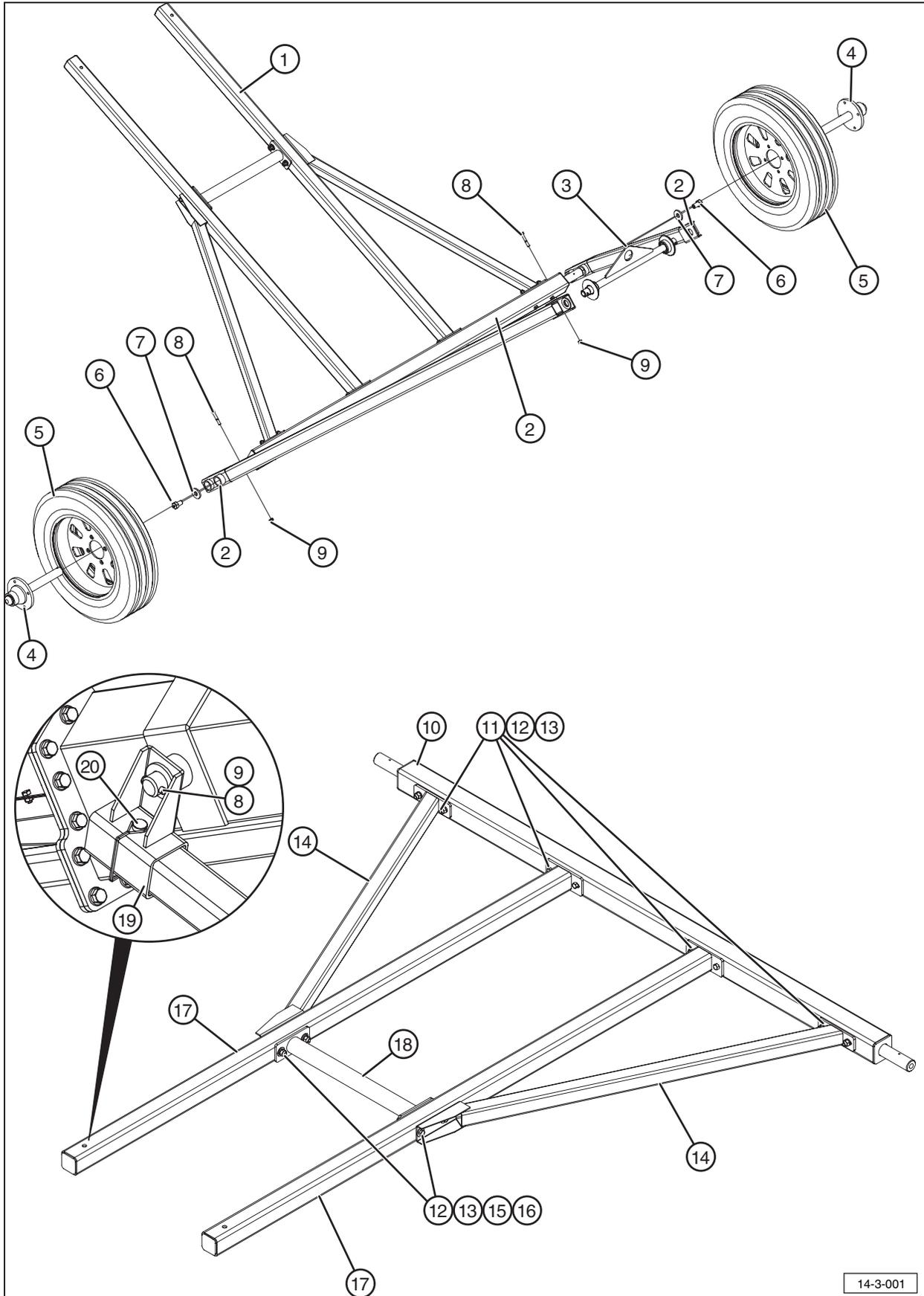
TUBE ASSEMBLY 35'			
ITEM	QTY	PART #	DESCRIPTION
1	1	37657	Tube, Painted 35' A-Frame, Red
2	1	27783	Cover, 10" Tube, Galvanized
3	1	27785	Cover, Galvanized Bottom 10" Tube
4	1	27476	Cover, 10" Tube, Galvanized
5	52	19597	Screw, 1/4-14 x 3/4" Hex Washer Head Self Drilling

TUBE ASSEMBLY 40'			
ITEM	QTY	PART #	DESCRIPTION
1	1	37745	Tube, Painted 40' A-Frame, Red
2	1	27783	Cover, 10" Tube, Galvanized
3	1	27785	Cover, 10" Tube, Galvanized Bottom
4	1	27592	Cover, 10" Tube, Galvanized 40'
5	64	19597	Screw, 1/4-14 x 3/4" Hex Washer Head Self Drilling

TUBE ASSEMBLY 45'			
ITEM	QTY	PART #	DESCRIPTION
1	1	27792	Tube, Painted 45' A-Frame, Red
2	1	27783	Cover, 10" Tube, Galvanized
3	1	27785	Cover, 10" Tube, Galvanized Bottom
4	1	27598	Cover, 10" Tube, Galvanized 45'
5	74	19597	Screw, 1/4-14 x 3/4" Hex Washer Head Self Drilling

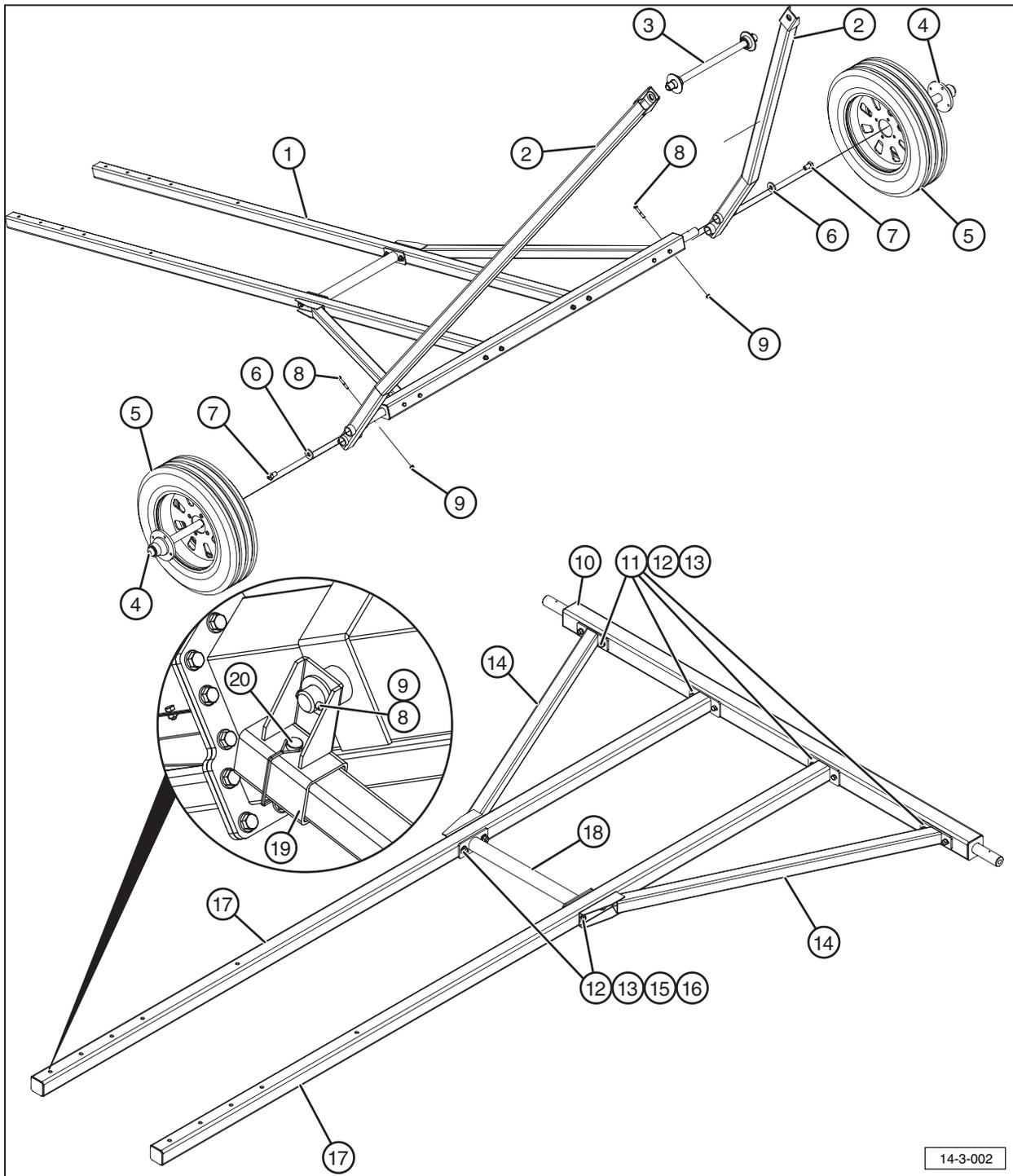
14.4 FRAME ASSEMBLY

14.4.1 A-Frame 20'



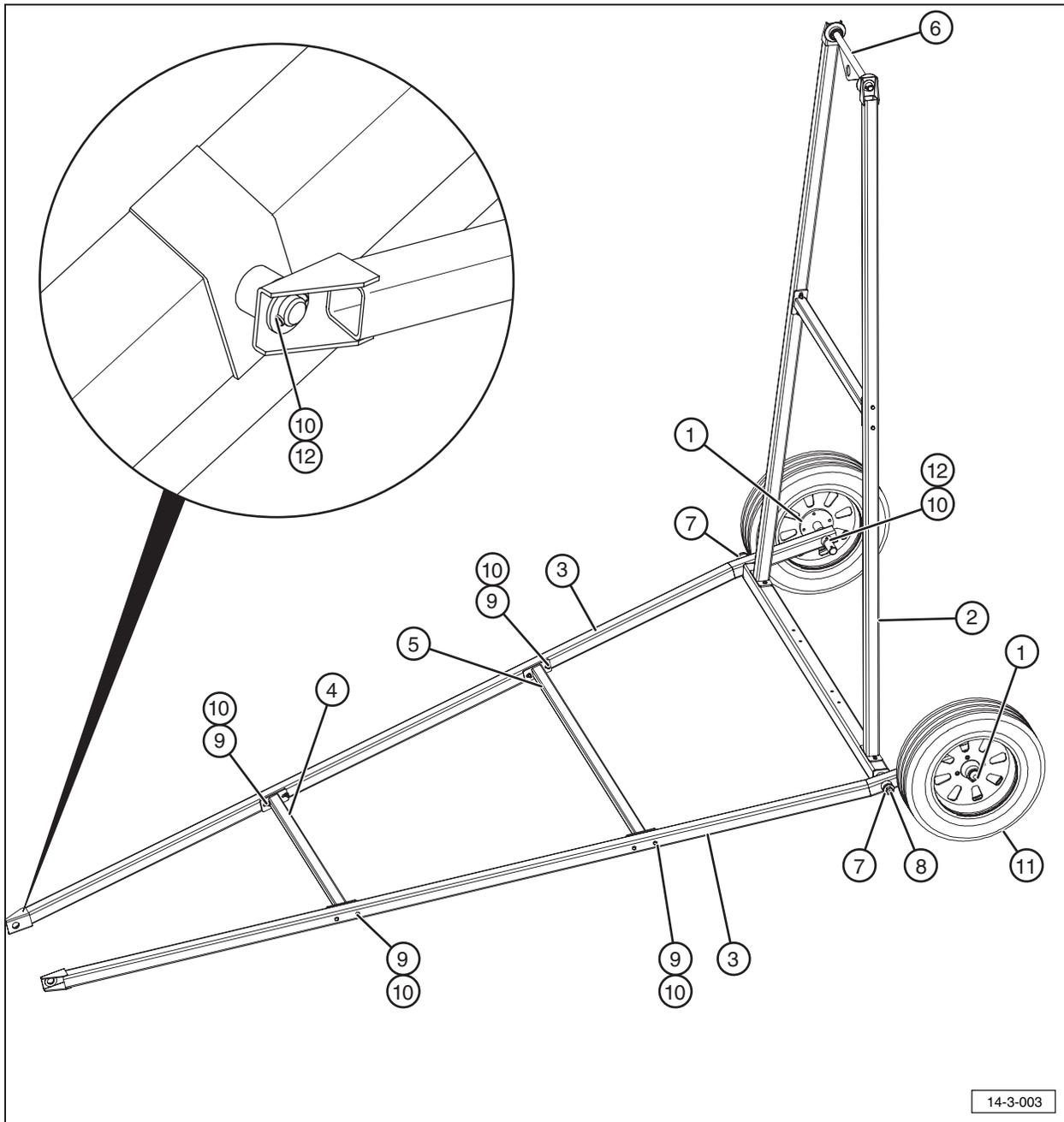
ITEM	QTY	PART #	DESCRIPTION
1	1	37858	A Frame, Sub Assembly, 20'
2	2	37854	A-Frame, Vertical Arm 20', Gray
3	1	38589	Assembly, Frame Roller
4	2	27869	Wheel Hub, 4 Bolt
5	2	27488	Wheel Assembly, Tire, 16"
6	2	37604	Zerk, Grease, 3/4 Bolt With 1/4
7	2	37603	Reinforcement Plate, Gray
8	2	19952	Bolt, Hex, 3/8-16 x 2-1/2"
9	2	19564	Nut, Hex, Flanged, 3/8-16
10	1	37612	Axle Assembly, A-Frame, Gray
11	8	18468	Bolt, Hex, 7/16-14 x 4" Steel, Mild
12	12	18465	Heavy Helical Spring Lock Washers 7/16"
13	12	18466	Nut, Hex 7/16-14 Steel, Mild
14	2	37614	Diagonal Support, A Frame, Gray
15	4	18469	Bolt, Hex, 7/16-14 x 3-3/4" Steel, Mild
16	8	18467	Washer, 7/16" - Regular - Type B Steel, Mild
17	2	37857	Middle Frame, Long, Gray
18	1	37615	Middle Support, A-Frame, Gray
19	1	37653	Frame, Articulating Mount Red
20	1	18470	Pin, Clevis, Locking, 1/2 X 3.5

14.4.2 A-Frame 25' and 30'



ITEM	QTY	PART #	DESCRIPTION
1	1	38617	A Frame, Sub Assembly,
2	2	37610 37617	A-Frame, Vertical Arm 25', Gray A-Frame, Vertical Arm 30', Gray
3	1	38589	Assembly, Frame Roller
4	2	27869	Wheel Hub, 4 Bolt
5	2	27488	Wheel Assembly, Tire, 16"
6	2	37603	Reinforcement Plate Gray
7	2	37604	Zerk, Grease, 3/4 Bolt With 1/4
8	4	19592	Bolt, Hex, 3/8-16 x 2-1/2"
9	4	19564	Nut, Hex, Flanged, 3/8-16
10	1	37612	Axle Assembly, A-Frame, Gray
11	8	18468	Bolt, Hex, 7/16-14 x 4" Steel, Mild
12	12	18465	Heavy Helical Spring Lock Washers 7/16"
13	12	18466	Nut, Hex 7/16-14 Steel, Mild
14	2	37614	Diagonal Support, A Frame, Gray
15	4	18469	Bolt, Hex, 7/16-14 x 3-3/4" Steel, Mild
16	8	18467	Washer, 7/16" - Regular - Type B Steel, Mild
17	1	37613	Middle Frame, Long, Gray
18	2	37615	Middle Support, A-Frame, Gray
19	1	37653	Frame, Articulating Mount Red
20	1	18470	Pin, Clevis, Locking, 1/2 X 3.5

14.4.3 A-Frame 35', 40' and 45'



ITEM	QTY	PART #	DESCRIPTION
1	2	27869	Wheel Hub, 4 Bolt
2	1	37590 37738 37756	Assembly, A-Frame Top Section 35' Assembly, A-Frame Top Section 40' Assembly, A-Frame Top Section 45'
3	2	37598 37598 37760	A-Frame, Bottom Section, Gray 35' A-Frame, Bottom Section, Gray 40' A-Frame, Bottom Section, Gray 45'
4	1	37597 37735 37735	A-Frame, Bottom Small Cross Brace, Gray 35' A-Frame, Bottom Small Cross Brace, Gray 40' A-Frame, Bottom Small Cross Brace, Gray 45'
5	1	37599	A-Frame, Bottom Large Cross Brace, Gray
6	1	38589	Assembly, Frame Roller
7	2	37603	Reinforcement Plate, Gray
8	2	37604	Zerk, Grease, 3/4 Bolt With 1/4
9	8	19331	Bolt, Hex, 3/8-16 x 3-1/2"
10	10	19564	Nut, Hex, Flanged, 3/8-16
11	2	27488	Wheel Assembly, Tire, 16"
12	4	19592	Bolt, Hex, 3/8-16 x 2-1/2"

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