




Grain Handling

PORTABLE SEED CONVEYOR
2-WHEELED UNDERCARRIAGE
8" x 21'
Hydraulic Motor, Electric Motor

Part No. 2001224

Foreword

 This symbol identifies important safety messages. When you see it, read the message that follows and be alert to the possibility of personal injury.

Remember, safety instructions stated in this manual are for your protection. Read them carefully and follow them closely when working around or using this machine.

Read and study this manual completely before attempting to operate this implement. Take this manual to the field for handy reference when operating, adjusting, or servicing your machine.

When referenced, “Right-Hand” (RH) and “Left-Hand” (LH) side of the machine are determined by standing behind the machine and facing in the direction of travel.



Product Information

All products manufactured by Unverferth Mfg. Co., Inc. are warranted to be free from material and workmanship defects for one full year from time of consumer delivery. Your local dealer will gladly assist you with any warranty questions.

Please fill out and retain this portion for your records. The serial number plate is located on the frame as shown below.

Purchase Date _____ Model _____ Serial No. _____

Dealer _____ City _____

Dealer Contact _____ Phone _____

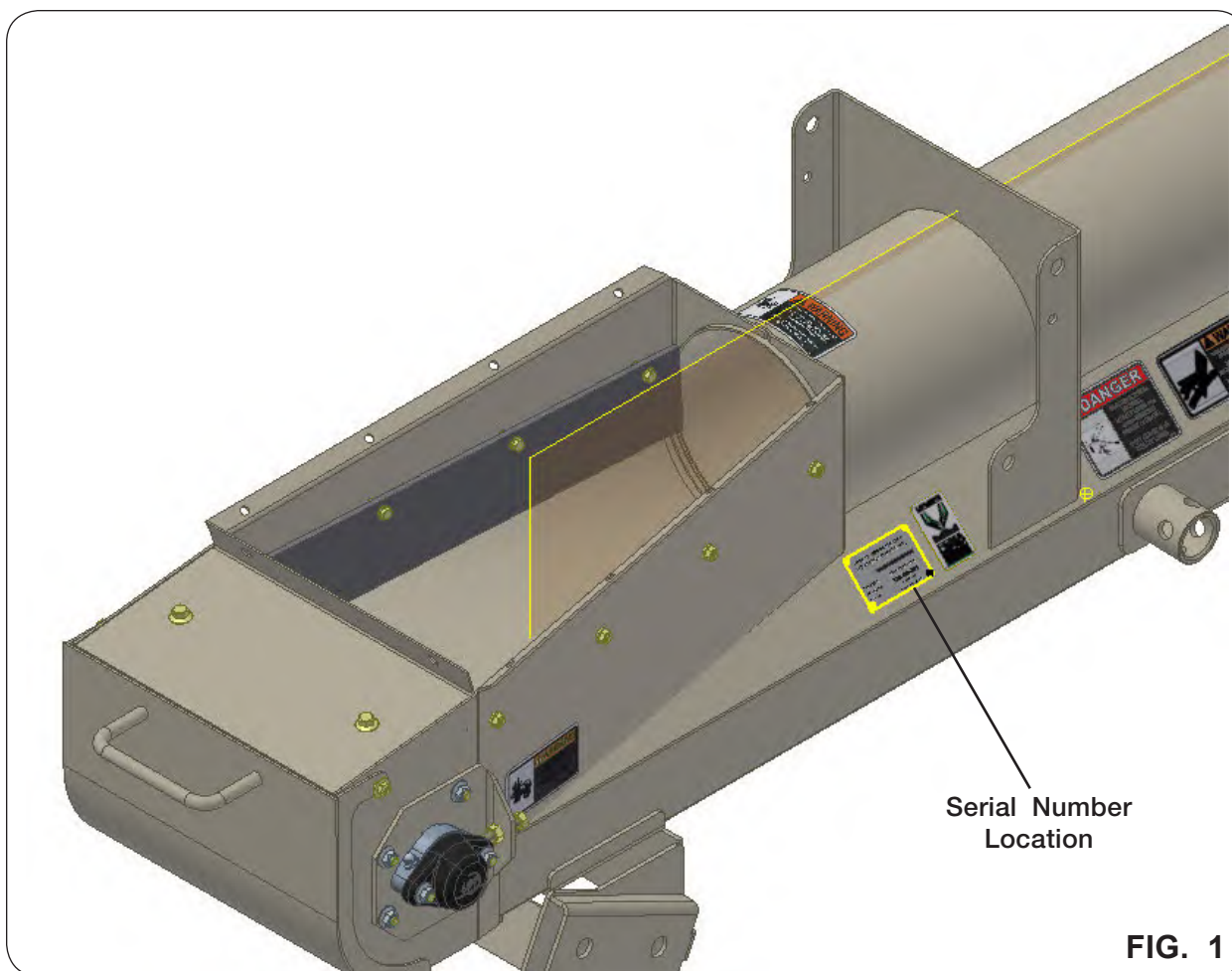


FIG. 1

IMPORTANT

The information, specifications, and illustrations in the manual are on the basis of information available at the time it was written. Due to continuing improvements in the design and manufacture of Unverferth products, all specifications and information contained herein are subject to change without notice.

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Safety

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General Hazard Information

No accident-prevention program can be successful without the wholehearted cooperation of the person who is directly responsible for the operation of the equipment.

A large number of accidents can be prevented only by the operator anticipating the result before the accident is caused and doing something about it. No power-driven equipment, whether it be transportation or processing, whether it is on the highway, in the field, or in the industrial plant, can be safer than the person who is at the controls. If accidents are to be prevented--and they can be prevented--it will be done by the operators who accept the full measure of their responsibility.

It is true that the designer, the manufacturer, and the safety engineer can help; and they will help, but their combined efforts can be wiped out by a single careless act of the operator.

It is said that, "the best kind of a safety device is a careful operator." We, at Unverferth Mfg. Co., Inc. ask that you be that kind of operator.



**REMEMBER:
THINK SAFETY**
A CAREFUL OPERATOR IS THE
BEST INSURANCE AGAINST AN
ACCIDENT!

SIGNAL WORDS



INDICATES AN EXTREMELY HAZARDOUS SITUATION OR ACTION THAT WILL RESULT IN SERIOUS INJURY OR DEATH.



INDICATES A HAZARDOUS SITUATION OR ACTION THAT COULD RESULT IN SERIOUS INJURY OR DEATH.



INDICATES AN UNSAFE SITUATION OR ACTION THAT MAY RESULT IN PERSONAL INJURY.






Is used for instruction on operating, adjusting, or servicing a machine.

Safety Decals



⚠ WARNING REPLACE LOST, DAMAGED, PAINTED, OR UNREADABLE DECALS IMMEDIATELY. IF PARTS THAT HAVE DECALS ARE REPLACED, ALSO MAKE SURE TO INSTALL NEW DECALS. THESE DECALS INFORM AND REMIND THE OPERATOR WITH OPERATIONAL INFORMATION AND SAFETY MESSAGES.



General Safety Instructions

- Read and understand this operator's manual before operating. 
- All machinery should be operated only by trained and authorized personnel.
- To prevent machine damage, use only attachments and service parts approved by the manufacturer.
- Always shut towing vehicle engine and hydraulic power unit engine off and remove key before servicing the implement. 
- Avoid personal attire such as loose fitting clothing, shoestrings, drawstrings, pants cuffs, long hair, etc., that may become entangled in moving parts.
- Do not allow anyone to ride on the implement. Make sure everyone is clear before operating machine or towing vehicle. 

Before Operating or Servicing

- Do not stand between towing vehicle and implement during hitching.
- Avoid working under an implement; however, if it becomes absolutely unavoidable, make sure the implement is safely blocked. 
- Always make certain everyone and everything is clear of the machine before beginning operation.
- Verify that all safety shields are in place and properly secured. 
- Ensure that all applicable safety decals are installed and legible.
- When working around the implement, be careful not to be cut by sharp edges.
- Explosive separation of a tire and rim can cause serious injury or death. Only properly trained personnel should attempt to service a tire and wheel assembly.

During Operation

- Regulate speed to field conditions. Maintain complete control at all times.

- Never lubricate equipment when in operation.

- Keep away from overhead power lines. Electrical shock can cause serious injury or death.

- Use extreme care when operating close to ditches, fences, or on hillsides.

- Do not leave towing vehicle unattended with engine running.

Before Transporting

- Secure transport chains to towing vehicle before transporting. DO NOT transport without chains.

- Check for proper function of all available transport lights. Make sure that all reflectors are clean and in place on machine. Make sure the SMV emblem is visible to approaching traffic.

- This implement may not be equipped with brakes. Ensure that the towing vehicle has adequate weight and braking capacity to tow this unit.

During Transport

- Comply with state and local laws governing highway safety when moving machinery.

- Use transport lights as required by local laws to adequately warn operators of other vehicles.

- Use good judgment when transporting equipment on highways. Regulate speed to road conditions and maintain complete control.

- Maximum speed of implement should never exceed 20 mph. Do not exceed 10 mph during off-highway travel.


- Slow down before making sharp turns to avoid tipping. Drive slowly over rough ground and side slopes.

- It is probable that this implement is taller, wider and longer than the towing vehicle. Become aware of and avoid all obstacles and hazards in the travel path of the equipment, such as power lines, ditches, etc.

Pressurized Oil

- Relieve pressure before disconnecting hydraulic lines from tractor, loosening any hydraulic fittings or servicing hydraulic system. See hydraulic power unit manual for procedure to relieve pressure.

- Use a piece of cardboard or wood to detect leaks of hydraulic fluid under pressure. Correct hydraulic leaks immediately.

- High-pressure fluids can penetrate the skin and cause serious injury or death. Seek medical treatment immediately if injured by high-pressure fluids. 

- Do not bend or strike high-pressure lines. Do not install bent or damaged tubes or hoses.

- Repair all oil leaks. Leaks can cause fires, personal injury, and environmental damage.

- Route hoses and lines carefully to prevent premature failure due to kinking and rubbing against other parts. Make sure that all clamps, guards and shields are installed correctly.

- Check hydraulic hoses and tubes carefully. Replace components as necessary if any of the following conditions are found:
 - End fittings damaged, displaced, or leaking.
 - Outer covering chafed or cut and wire reinforcing exposed.
 - Outer covering ballooning locally.
 - Evidence of kinking or crushing of the flexible part of a hose.
 - Armoring embedded in the outer cover.

Preparing for Emergencies

- Keep a first aid kit and properly rated fire extinguisher nearby.



- Keep emergency numbers for fire, rescue, and poison control personnel near the phone.



Wearing Protective Equipment

- Wear clothing and personal protective equipment appropriate for the job.



- Wear steel-toed shoes when operating.



- Wear hearing protection when exposed to loud noises.



- Do not wear additional hearing impairing devices such as radio headphones, etc.

 **WARNING**
Cancer and reproductive harm-
www.P65Warnings.ca.gov

Notes

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Dealer Checklist

Inspect all listed items that apply and when satisfactory or completed, check the box:

- Install wheels/tires and torque.
- Check tire pressures.
- Attach spout weldment/assembly
- Make sure all safety decals and SMV sign are clearly visible.
- Check belt tension and alignment
- Check all lubrication points
- Check all hydraulic parts for leakage
- Check transport chain

General Set Up

This section contains all of the instructions required for the complete assembly of the entire CONVEYOR.

For your safety, and the safety of others, use proper tools and equipment and always use safe working procedures. Refer to these instructions before starting any work on your machine.

IMPORTANT

- *The procedures for assembling this unit were intended for two or more people.*

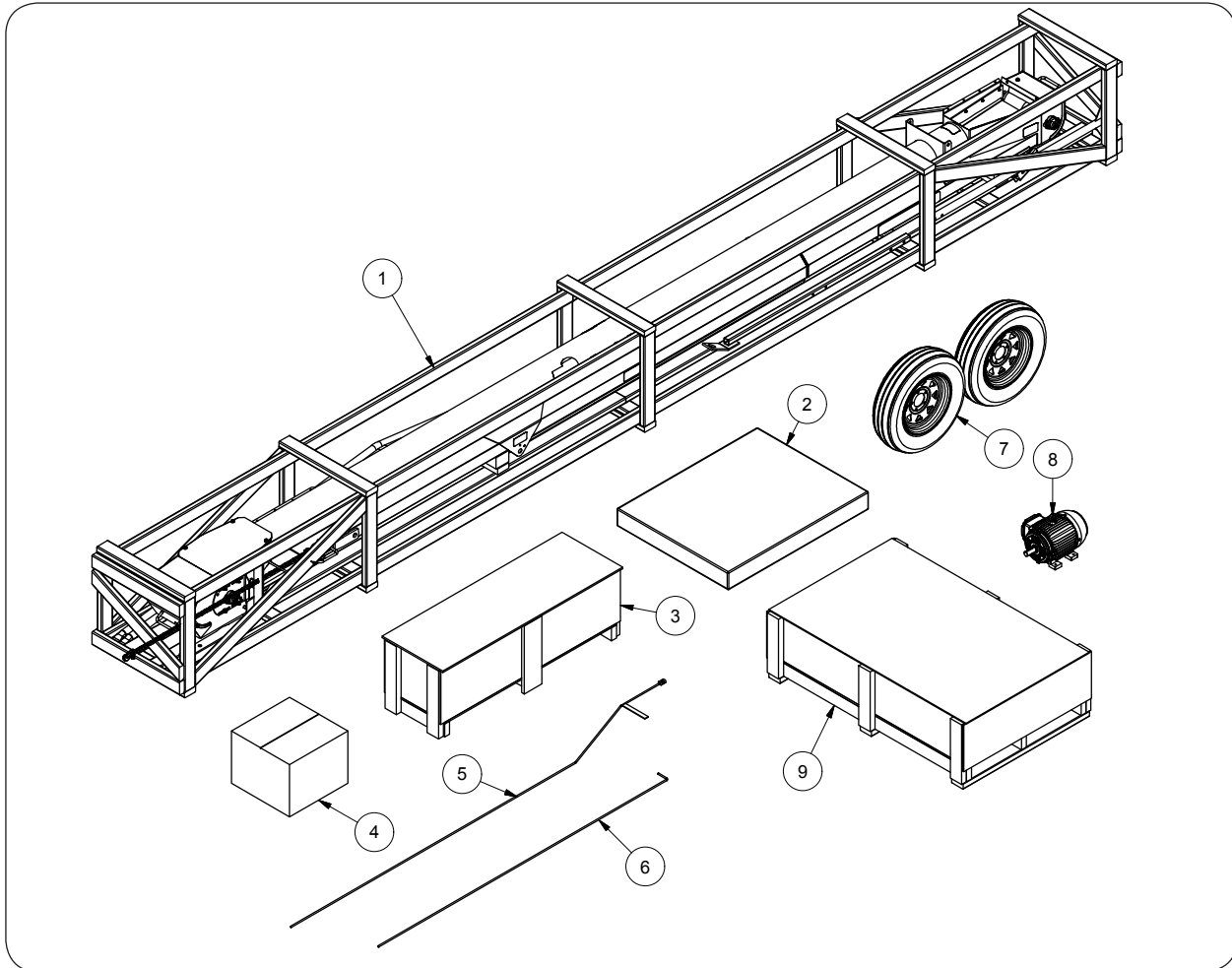
For ease of assembly, install all hardware loosely until assembly is complete and then tighten according to "Torque Chart".

WARNING

- **READ AND UNDERSTAND SAFETY RULES BEFORE OPERATING OR SERVICING THIS MACHINE. REVIEW THE "SAFETY" SECTION IN THIS MANUAL IF NECESSARY.**
- **TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH. BE SURE THE MACHINE IS SECURELY BLOCKED.**
- **MOVING PARTS CAN CRUSH AND CUT. KEEP AWAY FROM MOVING PARTS.**
- **KEEP HANDS CLEAR OF PINCH POINT AREAS.**
- **FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 1,500 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.**
- **EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING THIS IMPLEMENT.**

Shipping Bundles

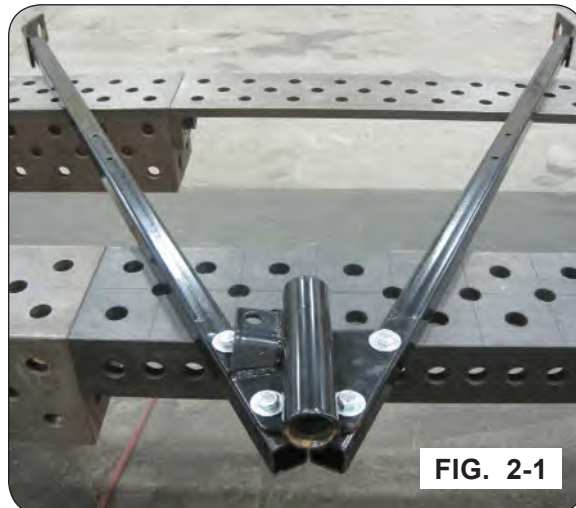
You should receive the following bundles:



ITEM	PART NO.	DESCRIPTION	QTY			
			CV82101 (HYDRAULIC)	CV82102 ELECTRIC 1-PHASE	CV82103 ELECTRIC 3-PHASE	CV82110 INTERNATIONAL
1	2001255TS	Conveyor 21' Bundle	1	1	1	1
2	25771TS	Hopper 8" Bundle	1	1	1	1
3	2001212TS	Hardware Box	1	1	1	1
4	2001213TS	Parts Box Hydraulic Conveyor	1	-	-	-
5	2001053	Control Rod Weldment	1	-	-	-
6	23698	Control Rod	1	-	-	-
7	TA0-913792-0	Wheel & Tire	2	2	2	2
8	902047	Motor/Electric 5HP 3-Phase	-	-	1	-
	2005474TS	Motor/Electric 5.5HP	-	-	-	1
	9500544	Motor/Electric 5HP 1-Phase	-	1	-	-
9	2001214TS	Parts Box	-	1	1	-
	2005474TS	Electric Conveyor	-	-	-	1

Undercarriage Lift Assembly

1. Locate in hardware box (2001212TS), the lift frame center weldment (2001233B) and bolt bag (2001215) which includes four 1/2"-13UNC x 2 1/2" capscrews (9390-105), eight 1/2" flat washers (9405-086) and four 1/2"-12UNC locknuts (9800). Remove leg weldments (2001235B) from the conveyor shipping bundle (2001255TS).



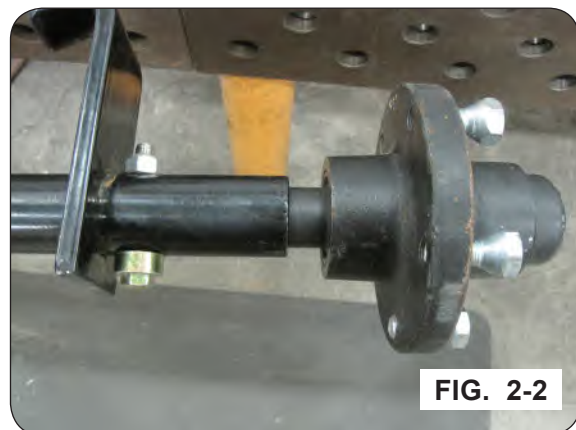
2. Secure both leg weldments (2001235B) to lift the frame center weldment (2001233B) using four 1/2"-13UNC x 2 1/2" capscrews (9390-105), eight 1/2" flat washers (9405-086) and four 1/2"-12UNC locknuts (9800) as seen in Fig. 2-1.

3. Locate axle pipe (TA1-113878-0) in conveyor shipping bundle (2001255TS).

4. Slide axle pipe (TA1-113878-0) through the holes of the lift frame leg weldments (2001235B).

5. Locate in hardware box (2001212TS) the hub and spindle 5 bolt assemblies (TA2-913793-1) and bolt bag (2001215) which includes two 7/16"-14UNC x 2 3/4" capscrews (9390-085), two bushings (TA1-110185-0), and two 7/16"-14UNC locknuts (9799).

6. With A-frame resting on the ground or support stands, insert the hub and spindle 5 bolt assemblies (TA2-913793-1) into the axle pipe (TA1-113878-0) and secure into position with 7/16"-14UNC x 2 3/4" capscrews (9390-085), bushings (TA1-110185-0), and 7/16"-14UNC locknuts (9799) as shown in Fig. 2-2.



7. Remove and save the 1/2"-20UNF stud bolts (91829) from the hub and spindle 5 bolt assemblies (TA2-913793-1).

8. Place the tire (TA0-913792-0) on the hub so that the valve stem is directed away from the machine and secure with the previously removed 1/2"-20UNF stud bolts (91829).

9. Torque the stud bolts. See the torque page in the Maintenance section for the proper torque value.

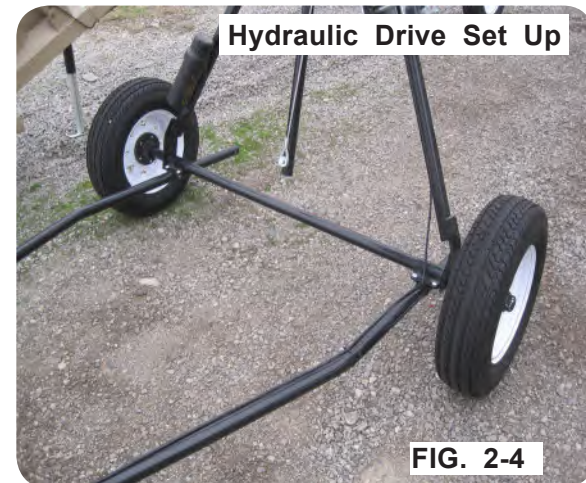
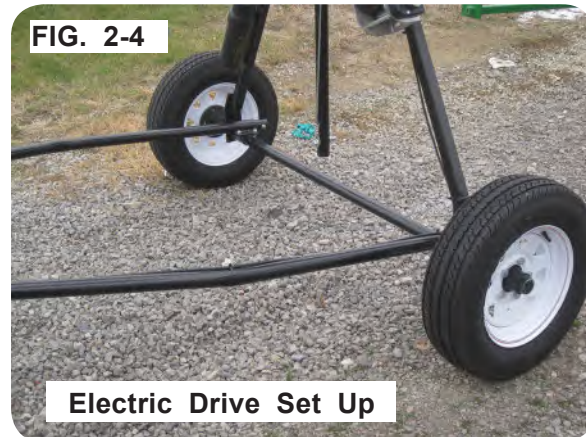
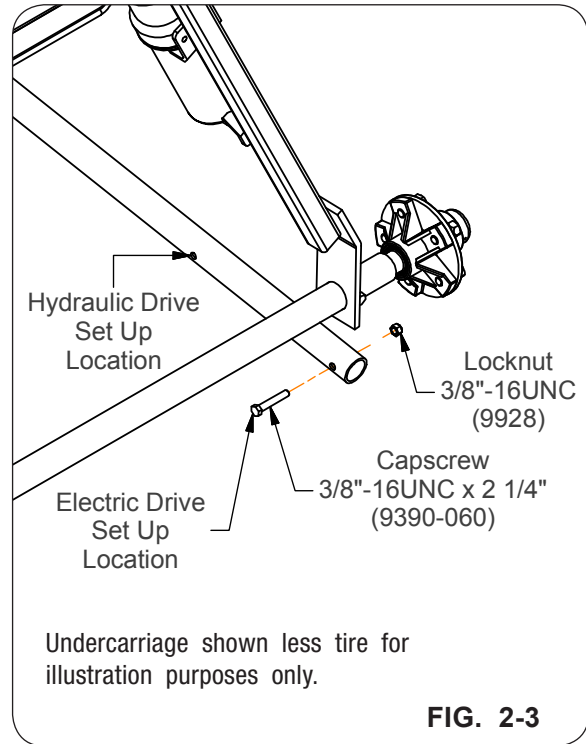
CAUTION

- **IMPROPERLY TORQUED WHEEL BOLTS CAN CAUSE A LOSS OF IMPLEMENT CONTROL AND MACHINE DAMAGE. WHEEL BOLTS MUST BE CHECKED REGULARLY. SEE TORQUE PAGE IN THE MAINTENANCE SECTION FOR THE PROPER WHEEL NUT/BOLT SPECIFICATIONS. WARRANTY DOES NOT COVER FAILURES CAUSED BY IMPROPERLY TORQUED WHEEL BOLTS.**

Undercarriage Lift Assembly (continued)

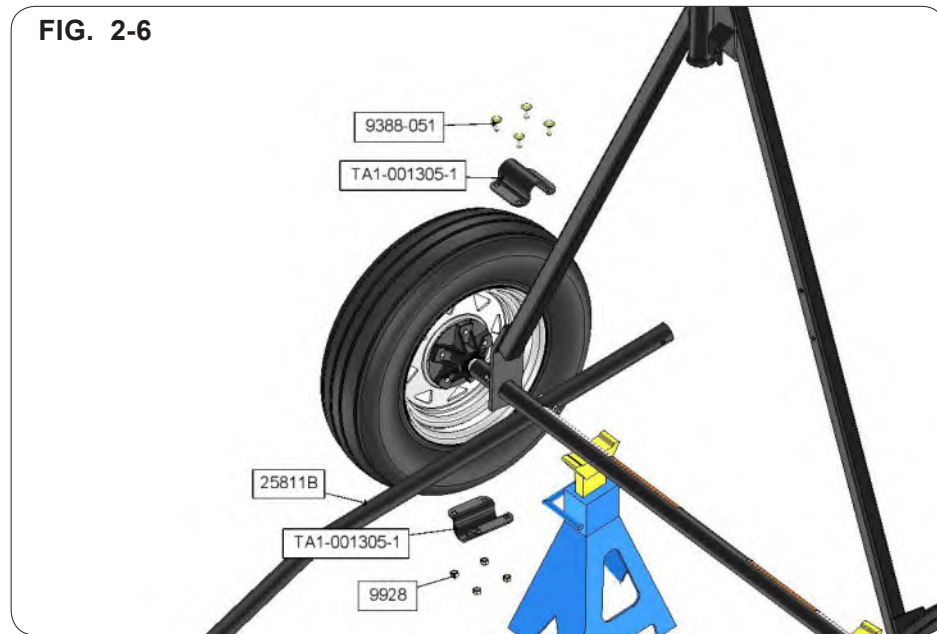
10. From the bolt bag (2001215), insert a 3/8"-16UNC x 2 1/4" capscrew (9390-060) into both side rails (25811B) and secure using 3/8"-16UNC locknuts (9928) as shown in Fig. 2-3.

See Fig. 2-4 and 2-5 for proper hole location based on the drive type.

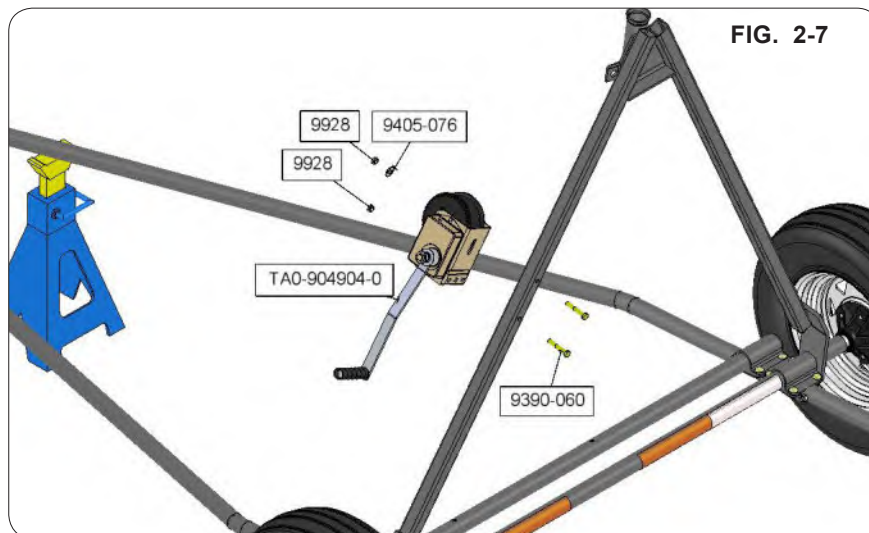


Undercarriage Lift Assembly (continued)

11. Attach the side rails (25811B) below the axle pipe (TA1-113878-0) with four half clamps (TA1-001305-1), located in hardware box (2001212TS) and eight 3/8"-16UNC x 1 carriage bolts (9388-051) and 3/8"-16UNC locknuts (9928) located in bolt bag (2001215) as shown in Fig. 2-6.



12. Locate the brake winch (902624) from hardware box (2001212TS) and secure to the left lift frame leg (2001235B) with two 3/8"-16UNC x 2 1/4" capscrews (9390-060), one 3/8" flat washer (9405-076), and two 3/8"-16UNC locknuts (9928) located in bolt bag (2001215) as shown in Fig. 2-7.



Undercarriage Lift Assembly (continued)

13. Insert the 12 3/16" long bushing (25659) into the lift weldment (25657B). Then slide lift weldment into the lift frame center weldment (2001233B) (Fig. 2-9).

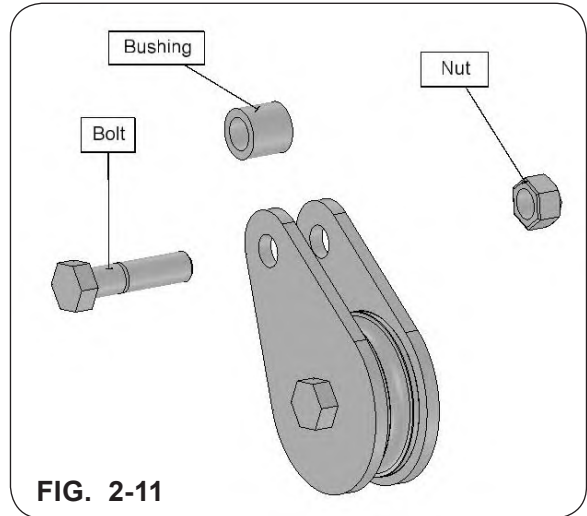


14. Locate the manual holder tube (900552) from hardware box (2001212TS) and bolts bag (2001215) which contains two self-drilling screws (9512) needed to secure the manual holder into position.
15. Secure the manual holder to the inside of the right-hand leg weldment (2001235B) using two 1/4"-14 x 1" self-drilling screws (9512) as shown in Fig. 2-10)



Undercarriage Lift Assembly (continued)

16. Remove the bolt, bushing and nuts from the pulley (TA0-923512-1) as shown in Fig. 2-11

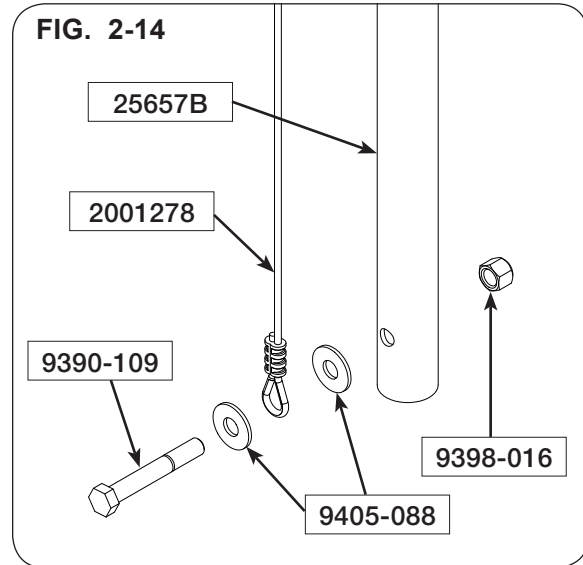
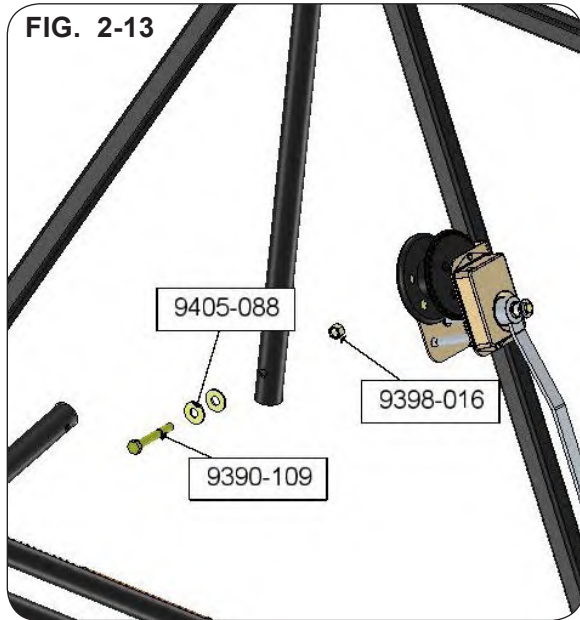


17. Attach the pulley (TA0-923512-1) to the lift frame center weldment (2001233B) using the previously removed hardware (Fig. 2-12).



Undercarriage Lift Assembly (continued)

18. Place the cable (2001278) between the two 1/2" flat washers (9405-088) and secure it to the lift weldment with 1/2"-13UNC x 3 1/2" capscrew (9390-109) and 1/2"-13UNC elastic stop nut (9398-016) as shown in Fig. 2-13 & 2-14.



Undercarriage Lift Assembly (continued)

14. Attach the other end of the cable (2001278) to the winch (902624).

⚠ WARNING

- **FALLING EQUIPMENT CAN CAUSE SERIOUS INJURY OR DEATH. BEFORE OPERATING THE WINCH, BE SURE THAT THE CABLE AND PULLEY ARE PROPERLY INSTALLED TO THE LIFT FRAME CENTER, AND THE CABLE IS PROPERLY ATTACHED TO THE WINCH. BE SURE TO FOLLOW THESE INSTRUCTIONS, AND THE OPERATING PROCEDURES PROVIDED WITH THE WINCH.**

IMPORTANT

- *See instruction sheet accompanied with the winch for winch and cable assembly.*

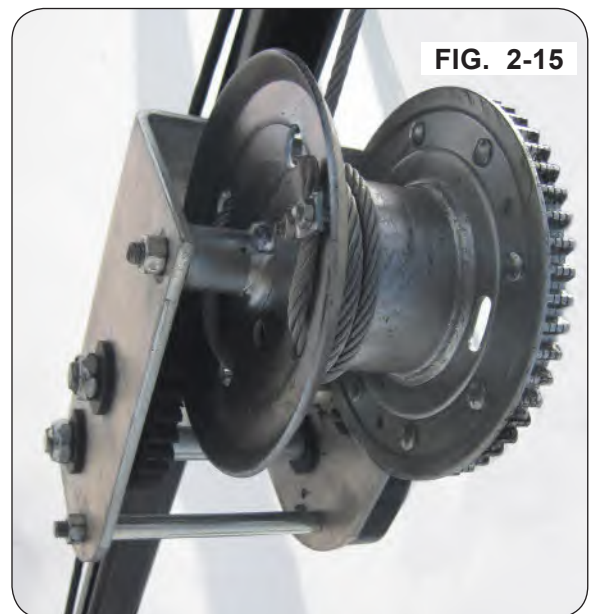
15. Check that all cables and winch are securely installed and not damaged in any way.

16. Tie cable to winch by the following instructions (Fig. 2-15):

NOTE: Start cable from the inside of the winch drum.

17. Thread cable from inside winch, out through one round hole in the drum side, until it extends 1 1/2" past the two square holes.

18. Clamp the cable to the outside of the drum with keeper, carriage bolts and hex nuts provided as shown in Fig. 2-15.



⚠ WARNING

- **FALLING OR LOWERING EQUIPMENT CAN CAUSE SERIOUS INJURY OR DEATH. KEEP EVERYONE AWAY FROM EQUIPMENT WHEN SUSPENDED, RAISING OR LOWERING.**

19. When operating the winch, take note of the following guidelines:

- never walk under conveyor while it is suspended
- never leave conveyor unattended while it is suspended
- test winch each time by lifting conveyor a few inches out of transport bracket before completely raising
- never winch conveyor up or down while it is loaded
- be sure that cable is not kinked, frayed or misaligned on winch drum
- always take safety precautions

Conveyor Assembly

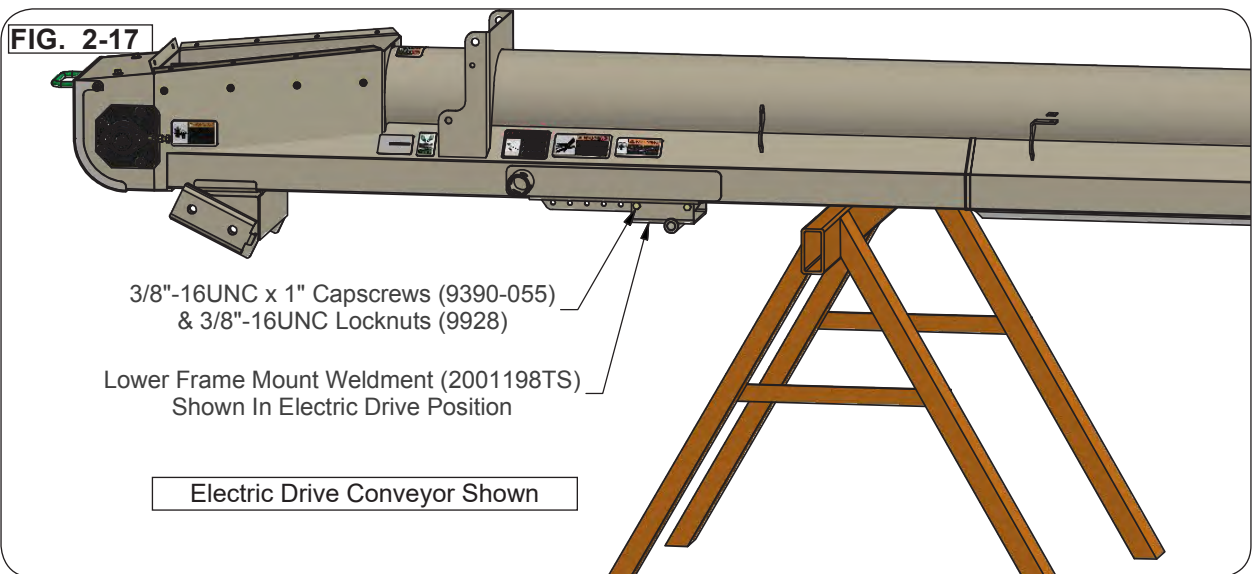
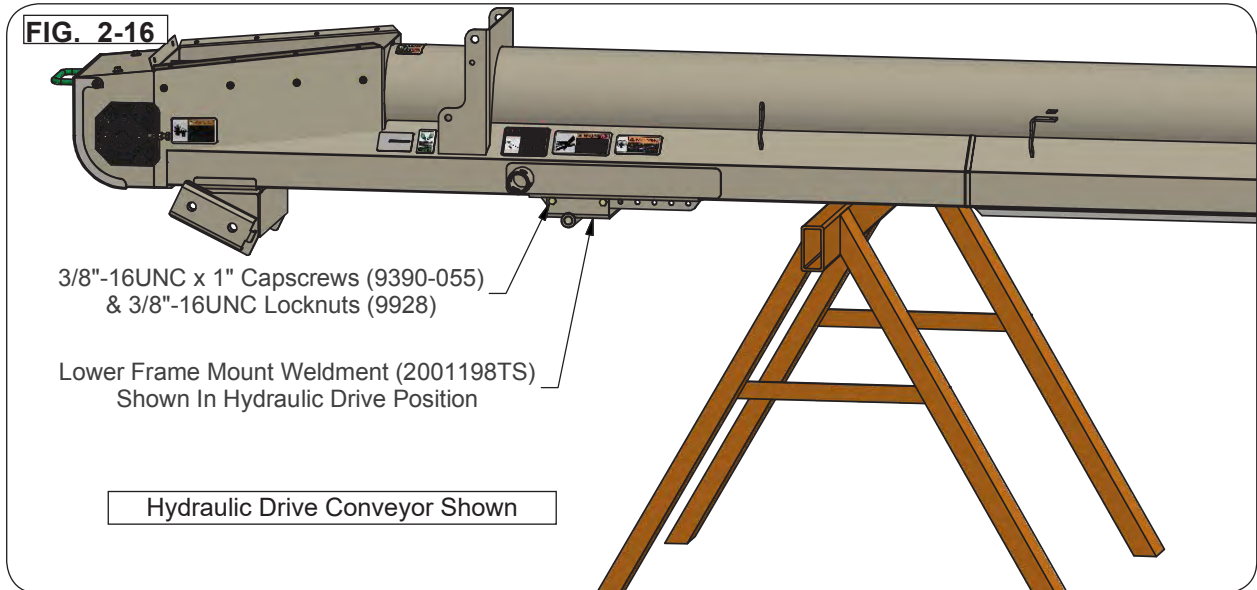
WARNING

- **FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 1,500 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.**

1. Using a safe lifting device rated at a minimum of 1,500 lbs. remove the conveyor from the shipping crate and place on two support stands.
2. Locate the lower frame mount weldment (2001198TS) from hardware box (2001212TS) and bolt bag (2001215) which contains four 3/8"-16UNC x 1" capscrews (9390-055) and 3/8"-16UNC locknuts (9928).

Conveyor Assembly

3. Secure the lower frame weldment (2001198TS) to the mounting rail on the conveyor using four 3/8"-16UNC x 1" capscrews (9390-055) and 3/8"-16UNC locknuts (9928). Fig. 2-16 & 2-17 show the proper mounting position for each drive set up.



Electrical Components (North America)

5 HP, 208-230/460 Volts AC, 60 HZ, 1-Phase Motor

5 HP, 208-230/460 Volts AC, 60 HZ, 3-Phase Motor

⚠ WARNING

- **FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 150 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.**
- **EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING IMPLEMENT.**
- **KEEP HANDS CLEAR OF PINCH POINT AREAS.**

1. Locate the electric drive parts box (2001214TS).
2. Loosely attach the shield motor mount (2001177TS) and electric motor to the motor mount (2001072TS) using 3/8"-16UNC x 1 3/4" carriage bolts (9388-054), 3/8" flat washers (9405-076), 3/8" lock washers (9404-021), and 3/8"-16UNC hex nuts (9394-006) (Fig. 2-16).

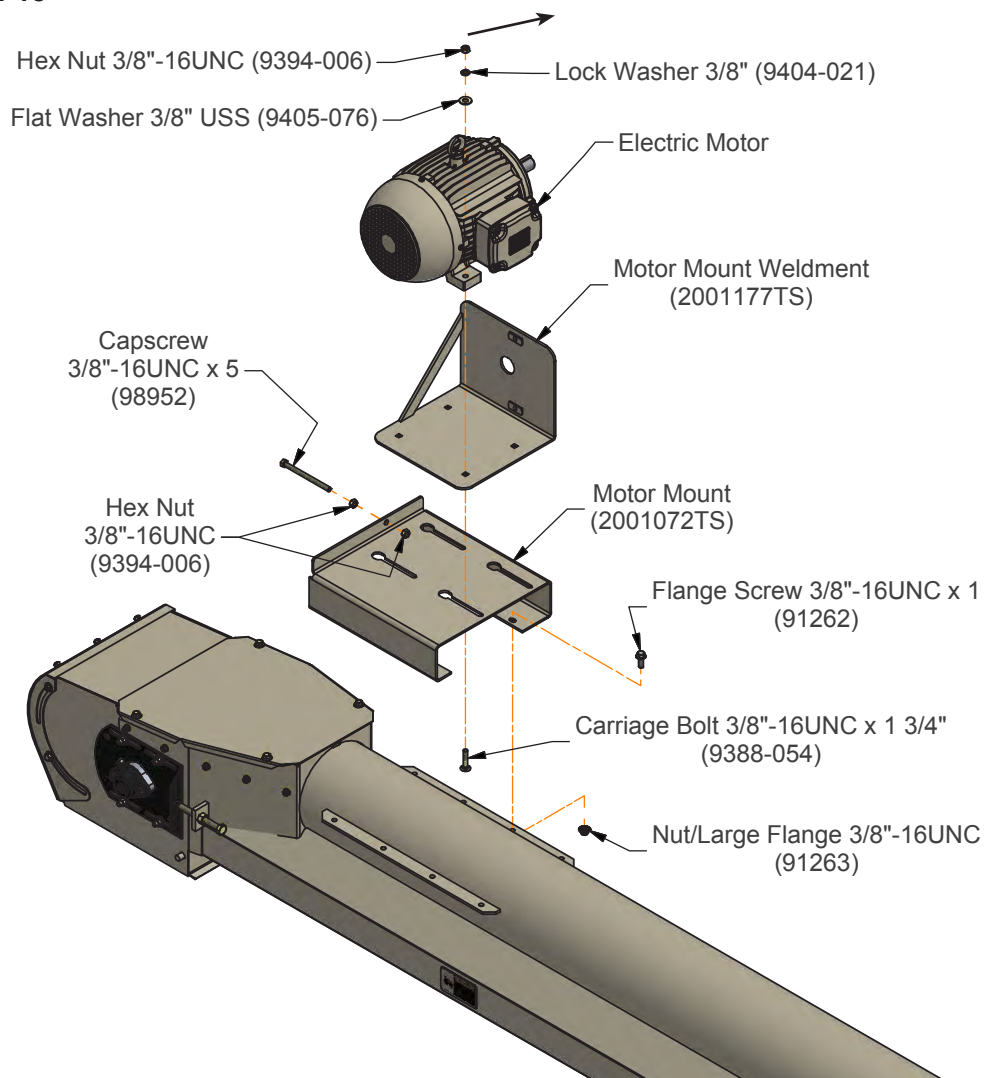
Electrical Components (North America)

5 HP, 208-230/460 Volts AC, 60 HZ, 1-Phase Motor

5 HP, 208-230/460 Volts AC, 60 HZ, 3-Phase Motor

3. Loosely attach the 3/8"-16UNC x 8" full threaded capscrew (98952) to the motor mount (2001072TS) with 3/8"-16UNC hex nut (9394-006) as shown in Fig. 2-18.
4. Using a safe lifting device rated at a minimum of 150 lbs., attach the assembled electric motor and mounting brackets to the conveyor with six 3/8"-16UNC x 1" large flange screws (91262) and 3/8"-16UNC large flange hex nuts (91263) as shown in Fig. 2-18.

FIG. 2-18



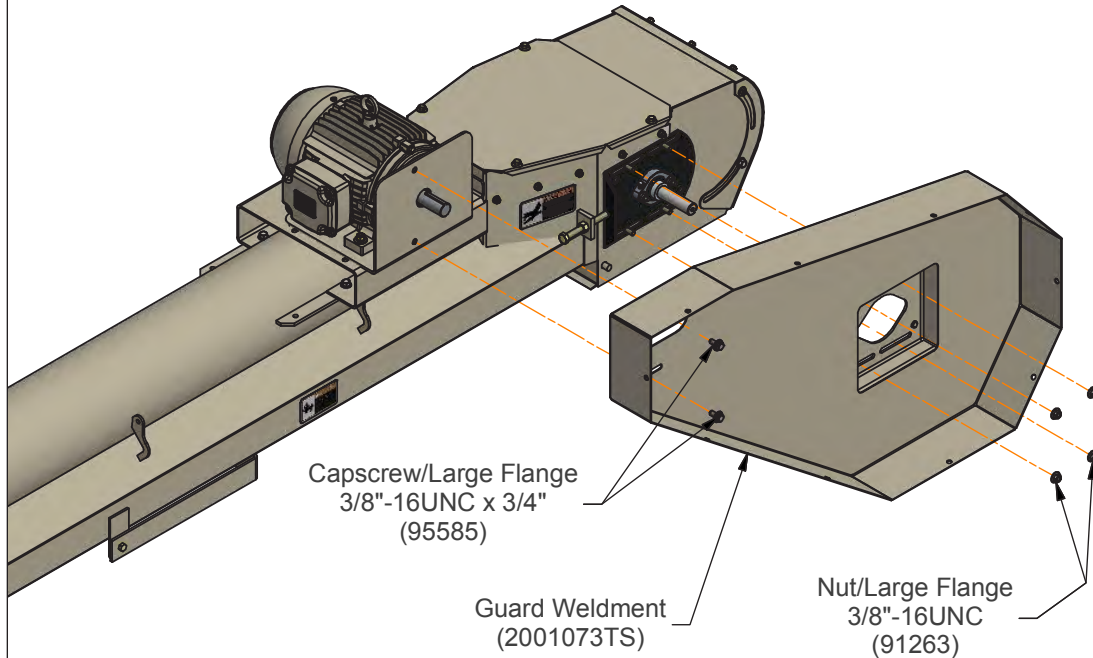
Electrical Components (North America)

5 HP, 208-230/460 Volts AC, 60 HZ, 1-Phase Motor

5 HP, 208-230/460 Volts AC, 60 HZ, 3-Phase Motor

5. Remove and save the four 3/8"-16UNC large flange hex nuts (91263) from bearing adjustment plate (2001018TS) (Fig. 2-19).

FIG. 2-19



6. Secure the guard weldment (2001073TS) to the conveyor bearing adjustment plate (2001018TS), using previously removed 3/8"-16UNC large flange hex nuts (91263). Make sure the alignment pins are aligned with holes in the bearing plate as shown in Fig. 2-19
7. Attach the guard weldment (2001073TS) to the shield motor mount (2001177TS) with two 3/8"-16UNC x 3/4" large flange screws (95585). (Fig. 2-19)

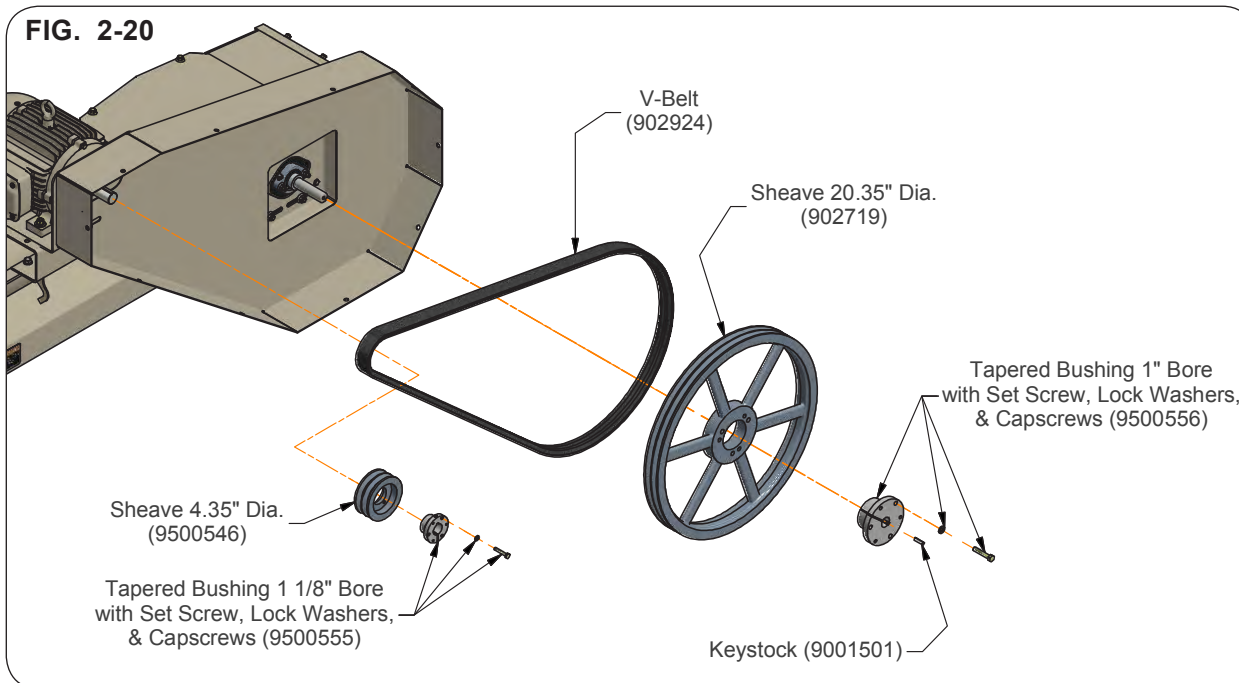
Electrical Components (North America)

5 HP, 208-230/460 Volts AC, 60 HZ, 1-Phase Motor

5 HP, 208-230/460 Volts AC, 60 HZ, 3-Phase Motor

- Place the smaller sheave (9500546) on the electric motor shaft and secure into position using the tapered bushing (9500555) and the key provided with the motor as shown in Fig. 2-20.
- Secure the larger sheave (902719) to the drive roller shaft using the tapered bushing (9500556) and 1/4" sq. x 1" key (9001501) (Fig. 2-20).
- Place the V-belt (902924) around the smaller sheave (9500546) and the larger sheave (902719) (Fig. 2-20).

FIG. 2-20



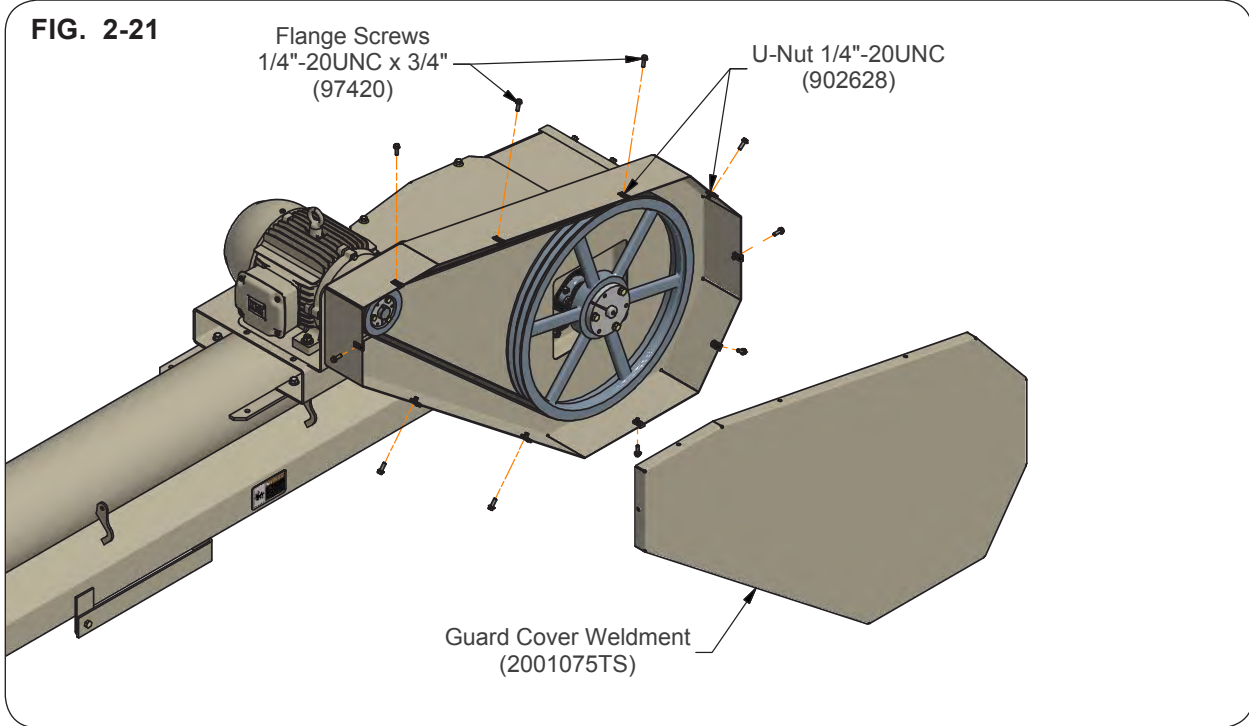
- Check the sheave alignment. DO NOT move the conveyor drive roller assembly (not shown). The conveyor drive roller is preset at the factory. If the conveyor drive roller is relocated, it may cause premature wearing of the conveyor belt. If the sheave alignment is required, adjust the smaller sheave (9500546) and the larger sheave (902719) accordingly.
- Place reasonable tension on the V-belt (902924) by adjusting the threaded tension rod (901515). Check belt tension after 8 hours of operation.
- Tighten all loosely assembled hardware according to Torque Chart.

Electrical Components (North America)

5 HP, 208-230/460 Volts AC, 60 HZ, 1-Phase Motor

5 HP, 208-230/460 Volts AC, 60 HZ, 3-Phase Motor

14. Attach the cover (2001075TS) to the guard weldment (2001073TS) by sliding ten 1/4"-20 U-nuts (902628) over the holes in the guard weldment using 1/4"-20 x 3/4" flange screws to secure together as shown in Fig. 2-21.



15. Wiring is not provided to connect the conveyor to your power source. Follow all local and government regulations when connecting the conveyor to your power source.

**Electric Motor & Sheave Assembly (International)
5.5HP, 400/690 Volts AC, 50HZ, 3-Phase Motor**

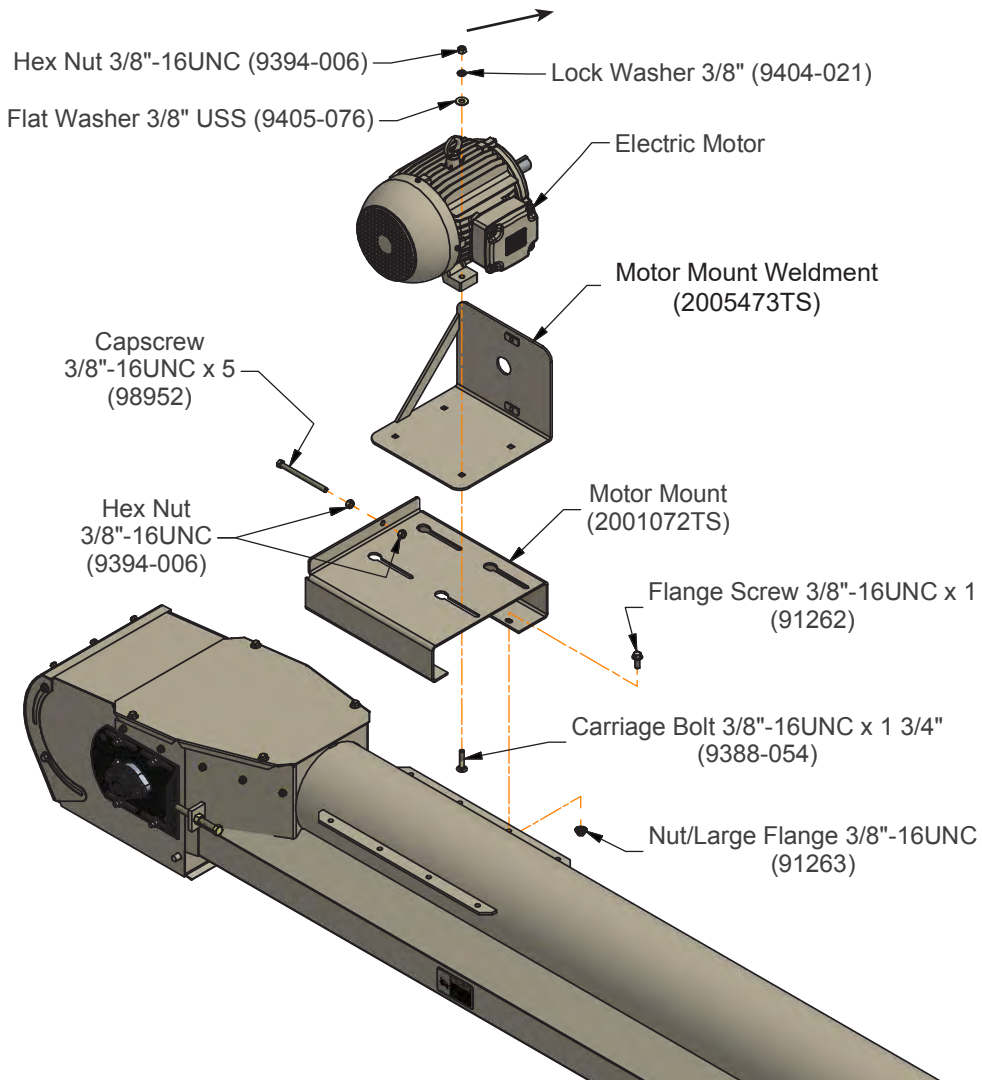
 WARNING

- FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 150 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.
 - EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING IMPLEMENT.
 - KEEP HANDS CLEAR OF PINCH POINT AREAS.
1. Locate the electric drive parts box (2005474TS).
 2. Loosely attach the shield motor mount (2005473TS) and electric motor to the motor mount (2001072TS) using 3/8"-16UNC x 1 3/4" carriage bolts (9388-054), 3/8" flat washers (9405-076), 3/8" lock washers (9404-021), and 3/8"-16UNC hex nuts (9394-006) (Fig. 2-22).

**Electric Motor & Sheave Assembly (International)
5.5HP, 400/690 Volts AC, 50HZ, 3-Phase Motor**

- Loosely attach the 3/8"-16UNC x 8" full threaded capscrew (98952) to the motor mount (2001072TS) with 3/8"-16UNC hex nut (9394-006) as shown in Fig. 2-22.
- Using a safe lifting device rated at a minimum of 150 lbs., attach the assembled electric motor and mounting brackets to the conveyor with six 3/8"-16UNC x 1" large flange screws (91262) and 3/8"-16UNC large flange hex nuts (91263) as shown in Fig. 2-22.

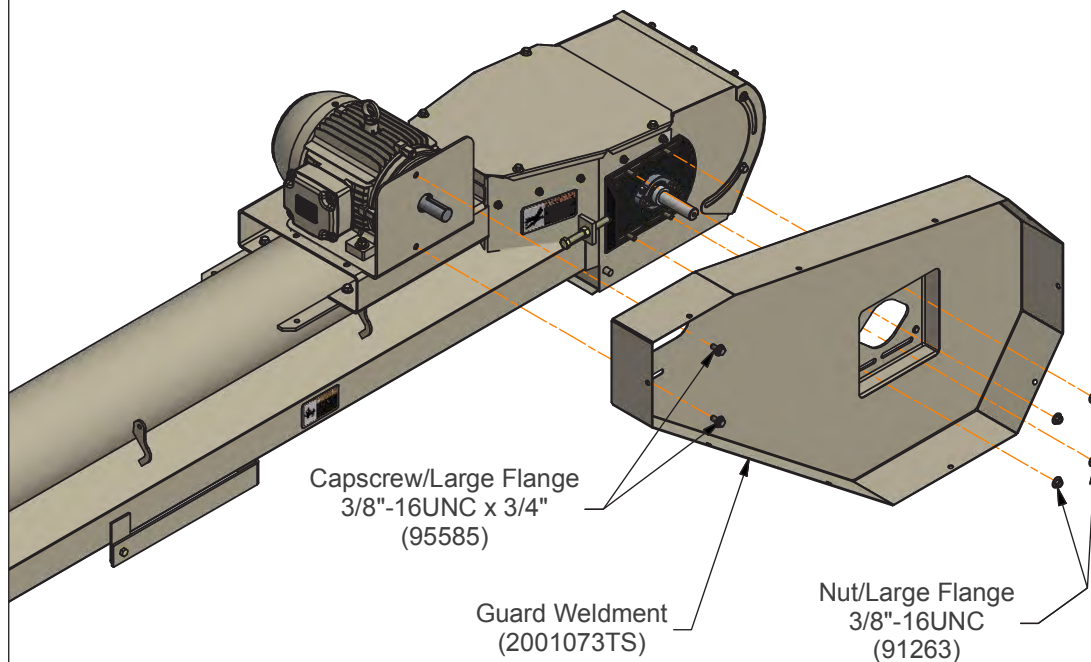
FIG. 2-22



**Electric Motor & Sheave Assembly (International)
5.5HP, 400/690 Volts AC, 50HZ, 3-Phase Motor**

5. Remove and save the four 3/8"-16UNC large flange hex nuts (91263) from bearing adjustment plate (2001018TS) (Fig. 2-23).

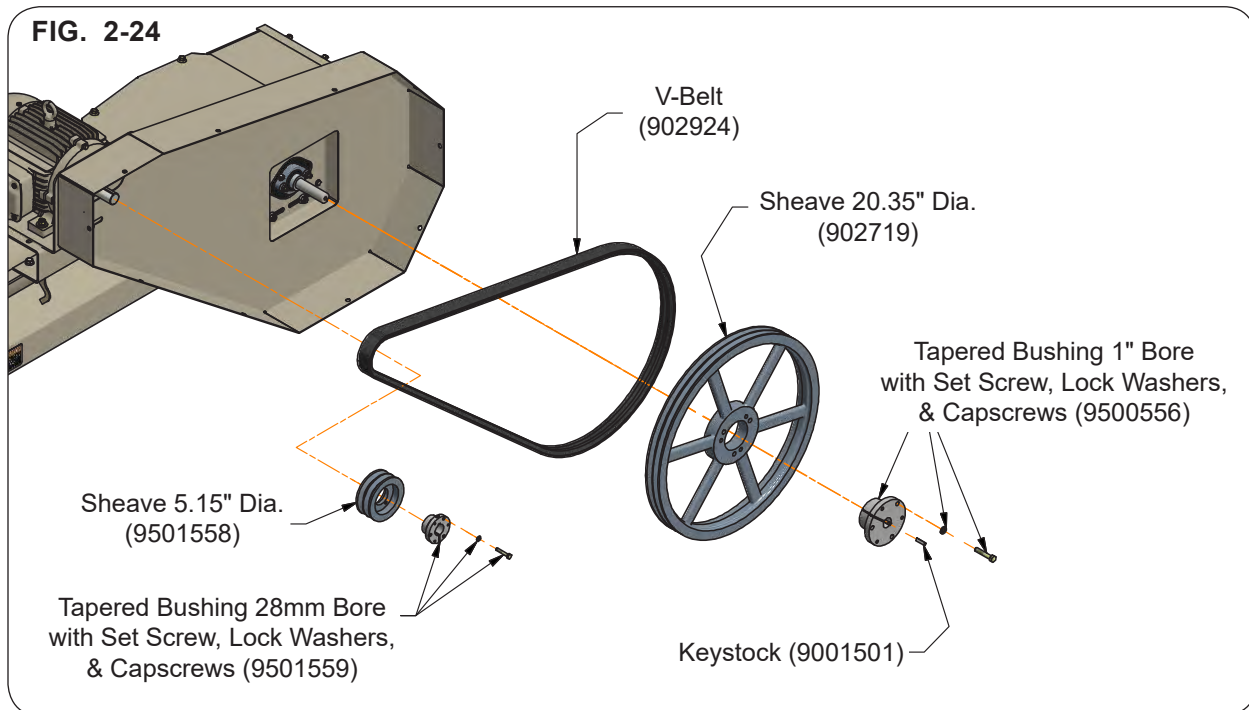
FIG. 2-23



6. Secure the guard weldment (2001073TS) to the conveyor bearing adjustment plate (2001018TS), using previously removed 3/8"-16UNC large flange hex nuts (91263). Make sure the alignment pins are aligned with holes in the bearing plate as shown in Fig. 2-23
7. Attach the guard weldment (2001073TS) to the shield motor mount (2001177TS) with two 3/8"-16UNC x 3/4" large flange screws (95585). (Fig. 2-23)

**Electric Motor & Sheave Assembly (International)
5.5HP, 400/690 Volts AC, 50HZ, 3-Phase Motor**

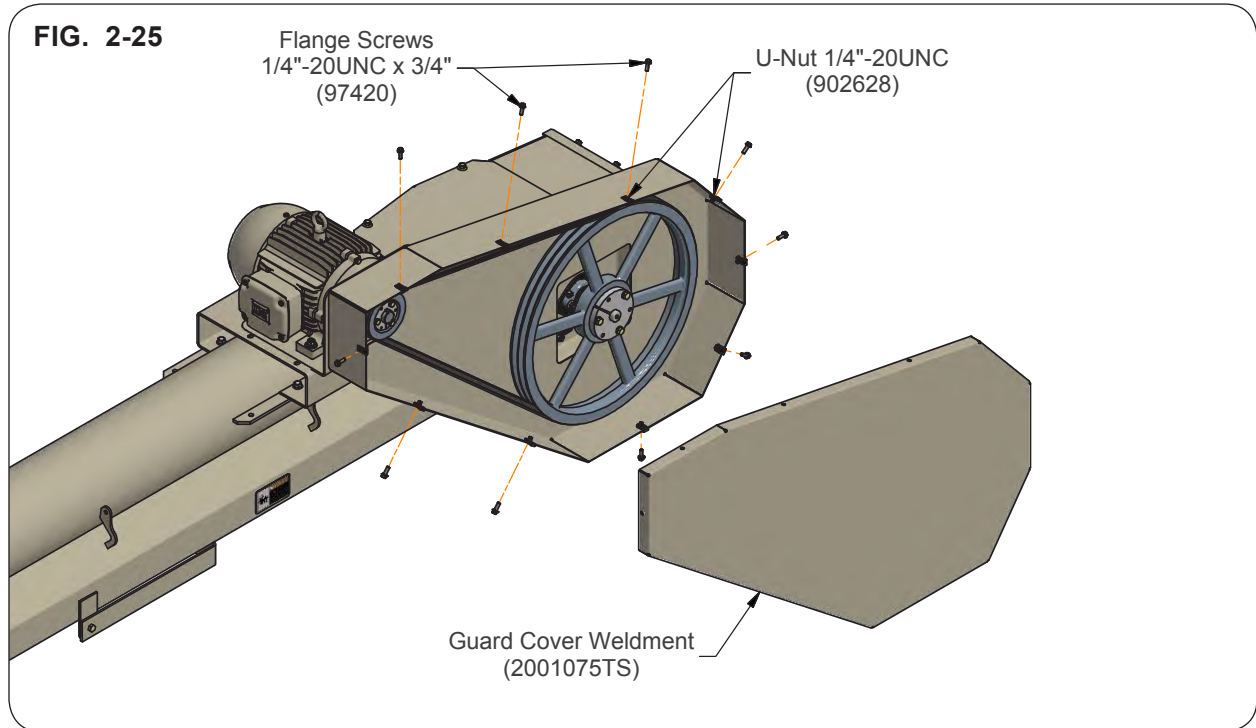
8. Place the smaller sheave (9501558) on the electric motor shaft and secure into position using the tapered bushing (9501559) and the key provided with the motor as shown in Fig. 2-24.
9. Secure the larger sheave (902719) to the drive roller shaft using the tapered bushing (9500556) and 1/4" sq. x 1" key (9001501) (Fig. 2-24).
10. Place the V-belt (902924) around the smaller sheave (9501558) and the larger sheave (902719) (Fig. 2-24).



11. Check the sheave alignment. DO NOT move the conveyor drive roller assembly (not shown). The conveyor drive roller is preset at the factory. If the conveyor drive roller is relocated, it may cause premature wearing of the conveyor belt. If the sheave alignment is required, adjust the smaller sheave (9501558) and the larger sheave (902719) accordingly.
12. Place reasonable tension on the V-belt (902924) by adjusting the threaded tension rod (901515). Check belt tension after 8 hours of operation.
13. Tighten all loosely assembled hardware according to Torque Chart.

**Electric Motor & Sheave Assembly (International)
5.5HP, 400/690 Volts AC, 50HZ, 3-Phase Motor**

14. Attach the cover (2001075TS) to the guard weldment (2001073TS) by sliding ten 1/4"-20 U-nuts (902628) over the holes in the guard weldment using 1/4"-20 x 3/4" flange screws to secure together as shown in Fig. 2-25.



15. Wiring is not provided to connect the conveyor to your power source. Follow all local and government regulations when connecting the conveyor to your power source.

Notes

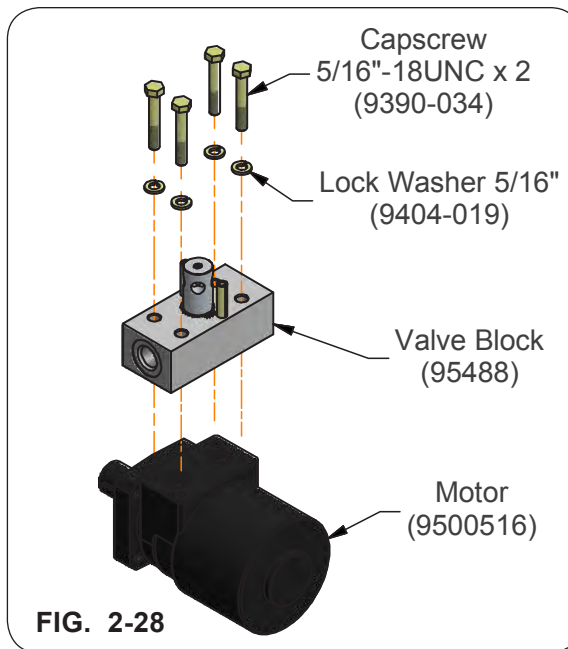
Hydraulic Drive Assembly

1. Locate the hydraulic drive parts box (2001213TS).
2. Remove and save the four 3/8"-16UNC large flange hex nuts (91263) from bearing adjustment plate (2001018TS) (Fig. 2-26).
3. Secure the guard weldment (2001020TS) to conveyor bearing adjustment plate (2001018TS), using the previously removed 3/8"-16UNC large flange hex nuts (91263). Make sure the alignment pins are aligned with the holes in the bearing plate as shown in Fig. 2-26.
4. Mount the coupler (901371) to the conveyor drive shaft using 1/4" sq. x 1" key (9001501). Secure the key with the setscrew provided with the coupler. (Fig. 2-27)



5. Inspect the O-Rings in the motor ports and make sure they are in the proper position and ports are clean of dirt and debris. Mount the valve block (95488) to the hydraulic motor (500516) using four 5/16"-18UNC capscrews (9390-034) and 5/16" lock washers (9404-019).

NOTE: Remove the plate covering the ports on the Hydraulic Motor (9500516)

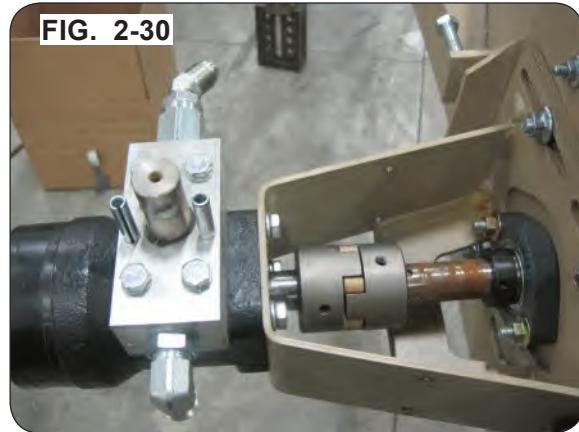


Hydraulic Drive Assembly (continued)

6. Attach the 45-degree adapter (93586) and check valve (94909) together and insert into the left side of the hydraulic valve (95488) as shown in Fig. 2-29. Insert the 90-degree elbow (9863) into the opposite end of the hydraulic valve (95488). Attach the coupler (901371) to the motor shaft using the key provided with the motor.



7. Mount the hydraulic motor (9500516) to the motor mount (2001020TS) using four 3/8"-16UNC x 1" capscrews (9390-055) and 3/8" lock washers (9404-021). Index motor accordingly to align couplers (901371) and spider (9500099). (Fig. 2-30)



8. Secure the motor mount covers (2001051TS) to the motor mount (2001020TS) using two 1/4"-20 x 3/4" hex head cap screws (97420) as shown in Fig. 2-31.



Hydraulic Drive Assembly (continued)

9. Starting at the bottom, run the 3/4"-16JIC female swivel end of the hydraulic hoses (2001055) up the left side of the conveyor, making sure to go under each guide. Connect the top hose to the 45-degree adapter (93586). Run the bottom hose under the motor (9500516) and up to the 90-degree elbow (9863) in the hydraulic valve (95488) (Fig. 2-32).

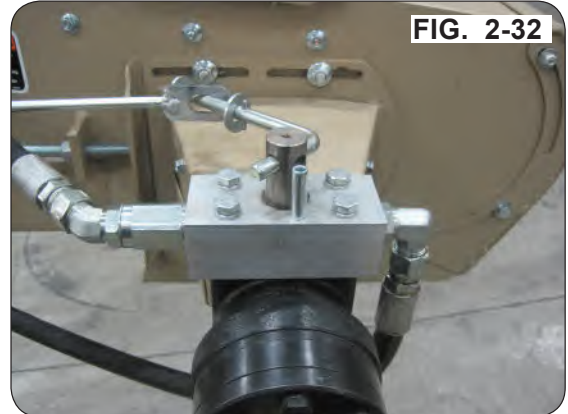
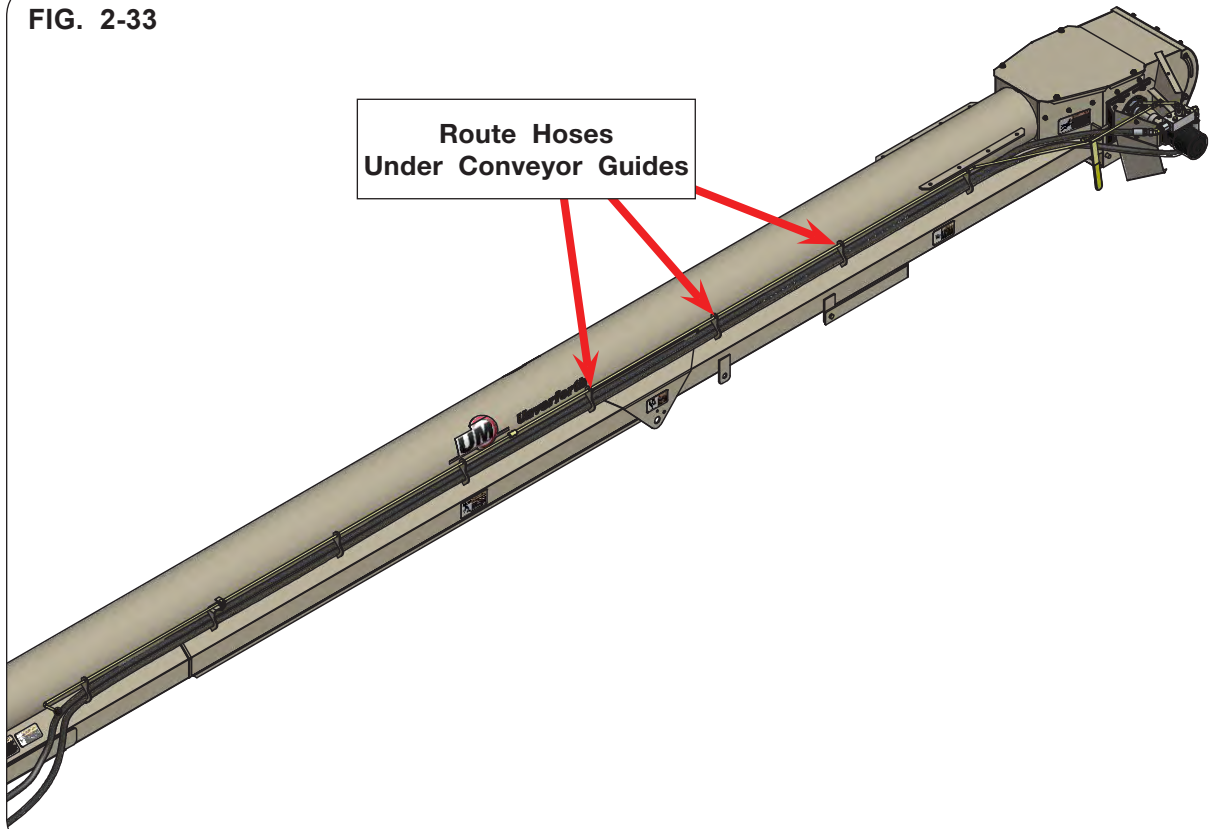


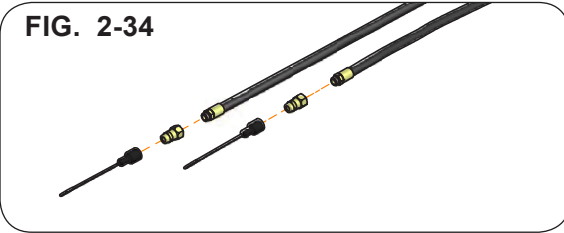
FIG. 2-33



Hydraulic Drive Assembly (continued)

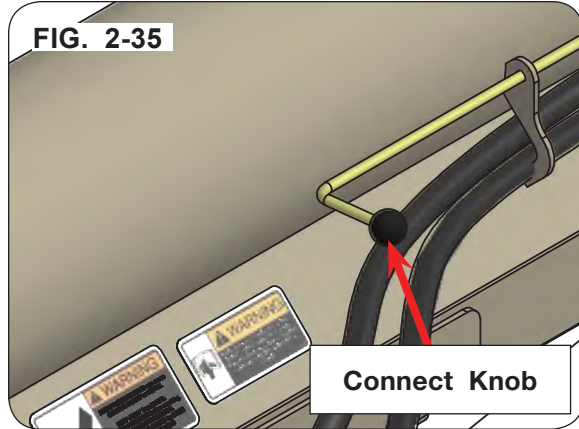
10. Connect 3/4"-16 male tip coupling (91383) to 3/4"-16 O-Ring Boss end of the hose at the bottom end of the conveyor. Place the coupler dust cap (91511) around the coupling (91383).

FIG. 2-34



11. Connect the knob (TA0-914793-0) to the lower control rod (23698).

FIG. 2-35



12. Using carriage bolt (9388-005) and wing nut (901056) place friction blocks (24266) between rests on the bottom end of the conveyor. Run the lower control rod (23698) through the holes in the guides and friction blocks. Tighten the wing nut enough to keep the rod in place, but still allow the user to slide the rod back and forth.

FIG. 2-36

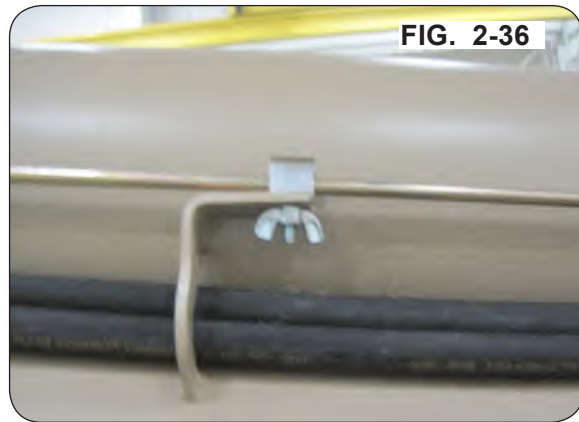
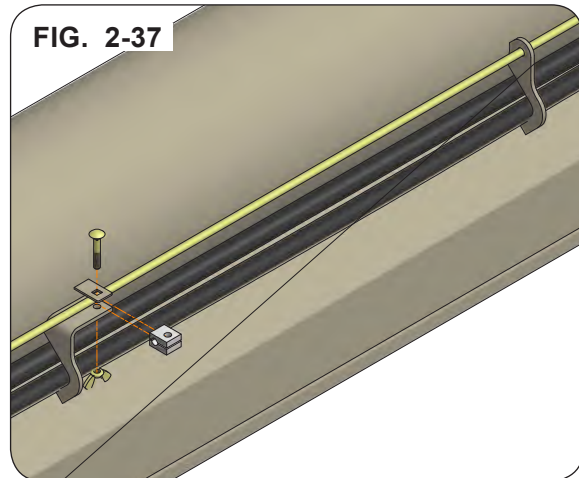
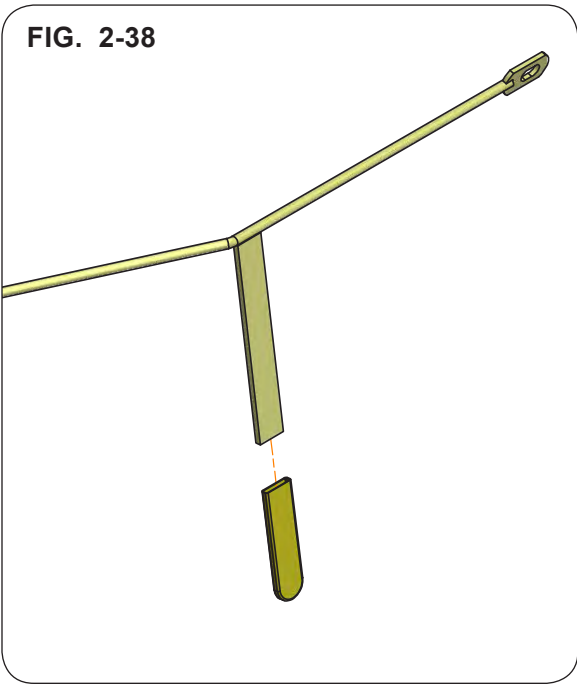


FIG. 2-37



Hydraulic Drive Assembly (continued)

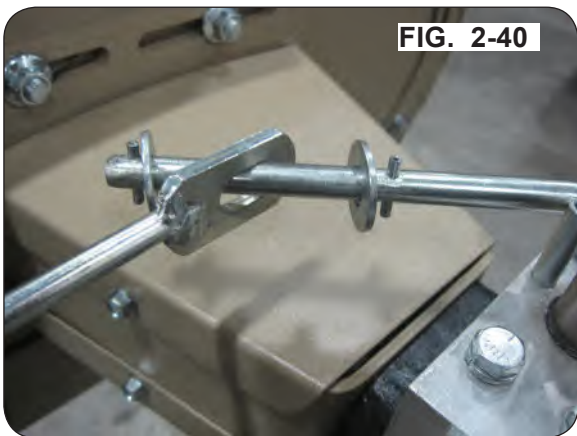
- 13. Place the vinyl handle (900209) on the upper control rod (2001053) and run through the guides on the top end of the conveyor.



- 14. Connect the lower control rod (23698) to the upper control rod (2001053) using 5/8" x 1 1/4" coupler (23701).

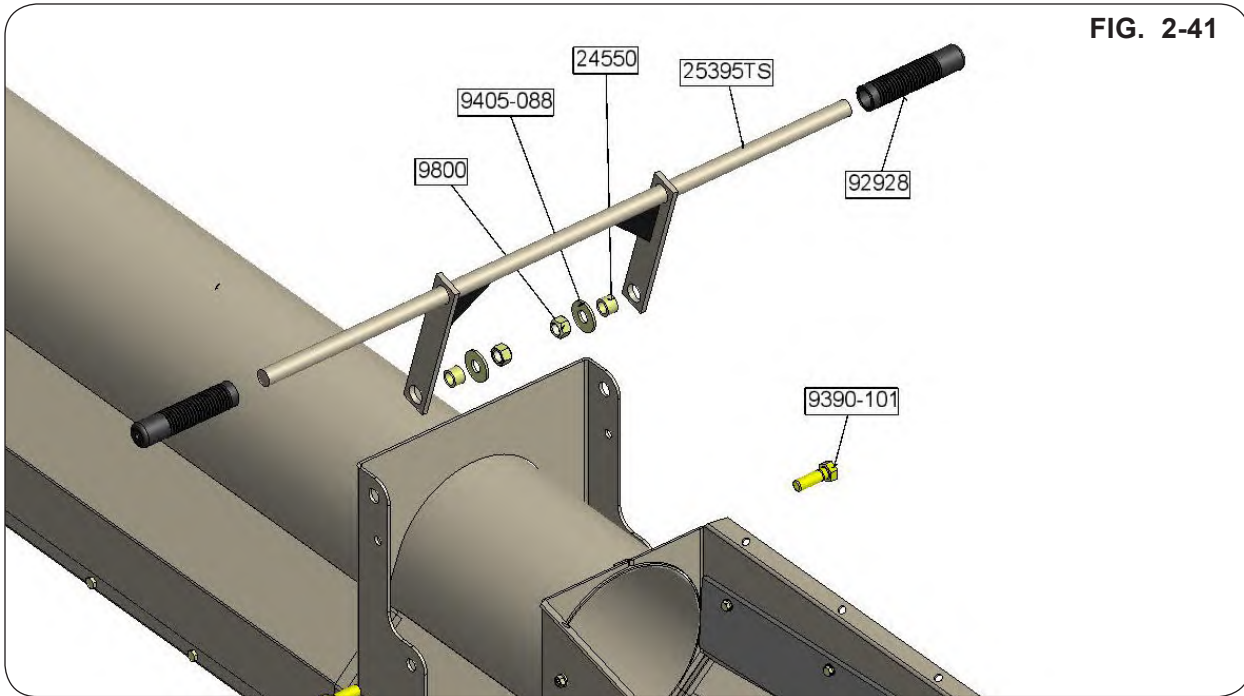


- 15. Connect the upper control rod (2001053) to the hydraulic valve (95488) by inserting the handle (23693) with roll pins (9392-056) and flat washers (9405-076) as shown in Fig. 2-40.



Hopper Assembly

1. Attach the handle weldment (25395TS) to the conveyor with two bushings (24550), 1/2" flat washers (9405-088), 1/2"-13UNC x 1 1/2" capscrews (9390-101), and 1/2"-13UNC locknuts (9800) as shown in Fig. 2-41.



Hopper Assembly (continued)

2. Secure the pivot weldment (25393TS) as shown in Fig. 2-42 with two shim plates (25434B), four 5/16"-18UNC x 1" serrated flange bolts (901044) and four 5/16"-18UNC large flange hex nuts (91257).

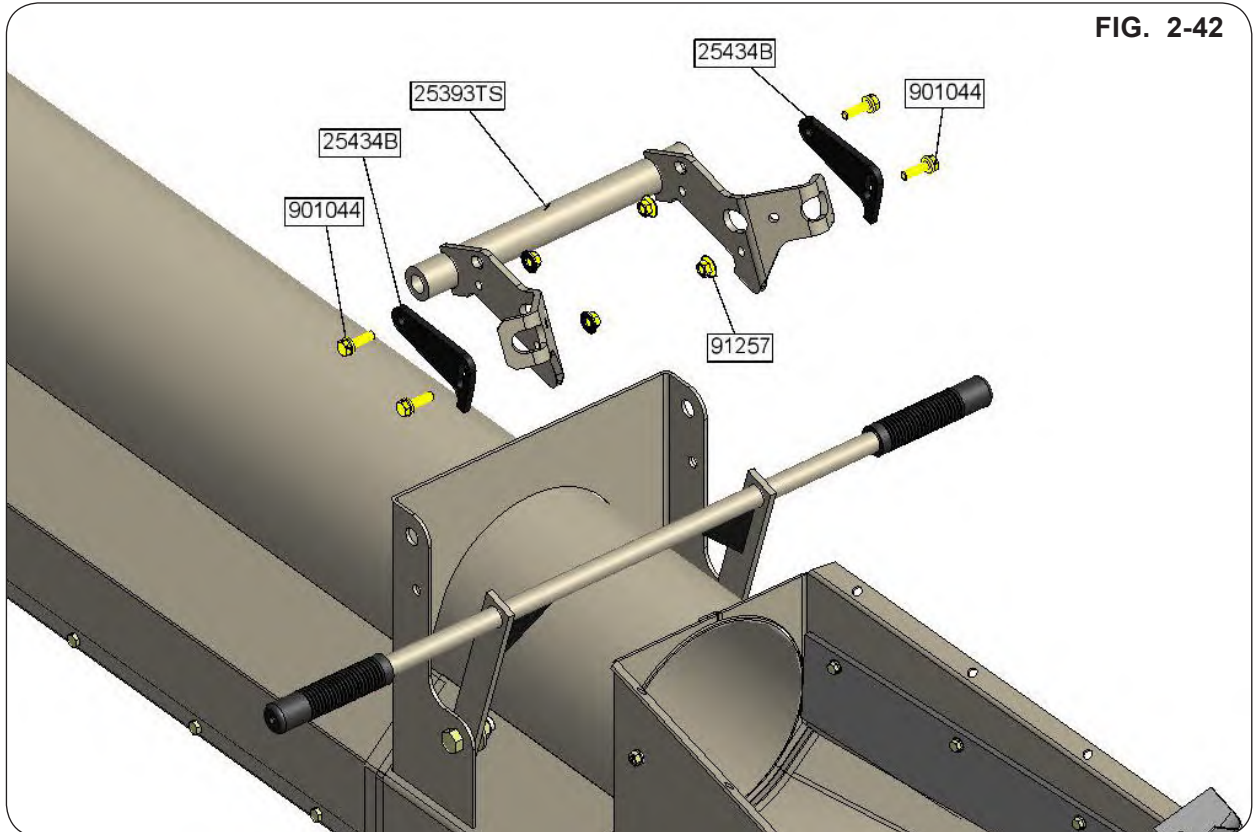


FIG. 2-42

3. Rotate the pivot weldment (25393TS) into position as shown in Fig. 2-43. Insert the pin weldment (25396) and secure with 3/8"-16UNC x 1" capscrew (9390-055) and 3/8"-16UNC locknut (9928).

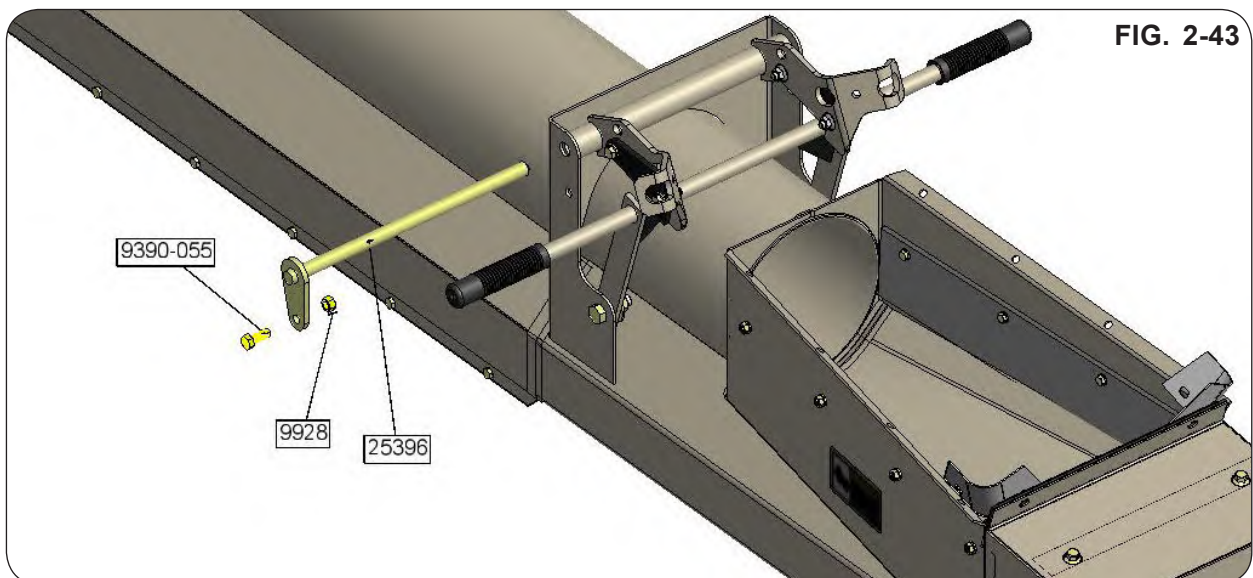


FIG. 2-43

Hopper Assembly (continued)

4. Attach the vinyl hopper (901471) on the bent tube (25433TS) as shown in Fig. 2-44.
5. Secure the assembled vinyl hopper to the pivot weldment (25393TS) with 5/16"-18UNC x 1 1/2" capscrews (9390-032) and 5/16"-18UNC locknuts (9807) (Fig. 2-44).

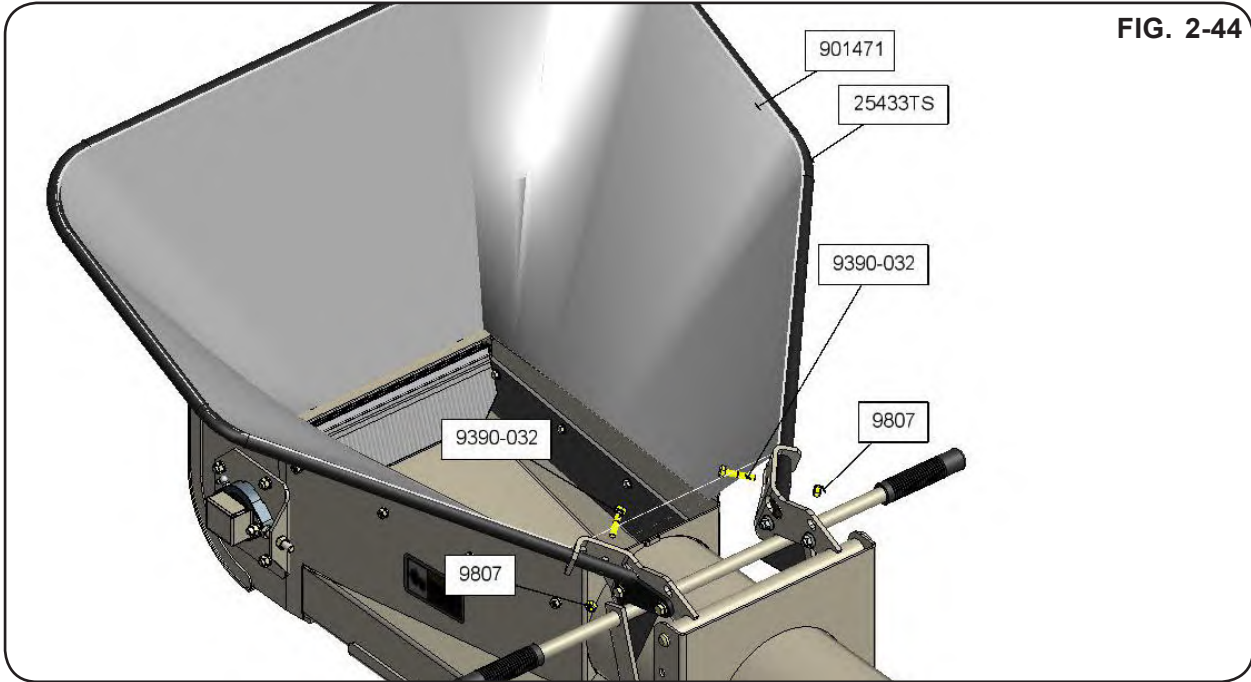


FIG. 2-44

6. Using the two straps (24620), eight 5/16"-18UNC x 3/4" large flange screws (91256), and 5/16"-18UNC large flange hex nuts (91257), secure the assembled vinyl hopper to the conveyor as shown in Fig. 2-45.

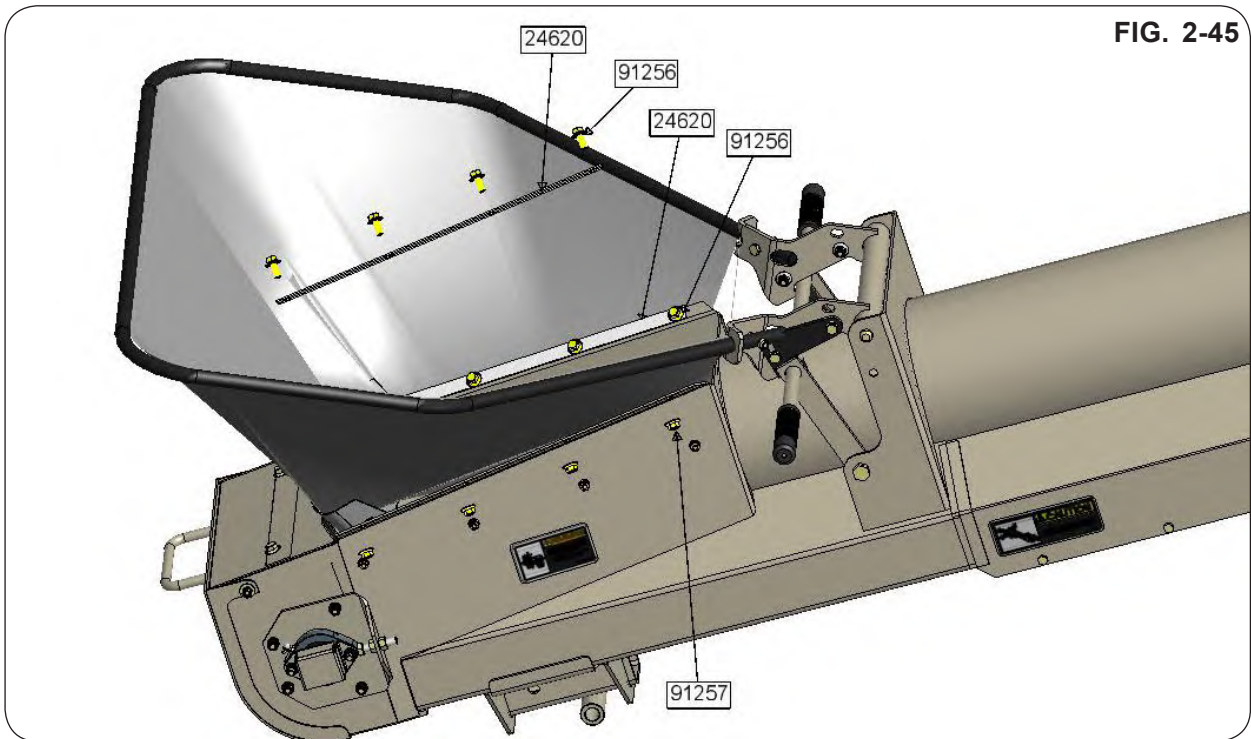
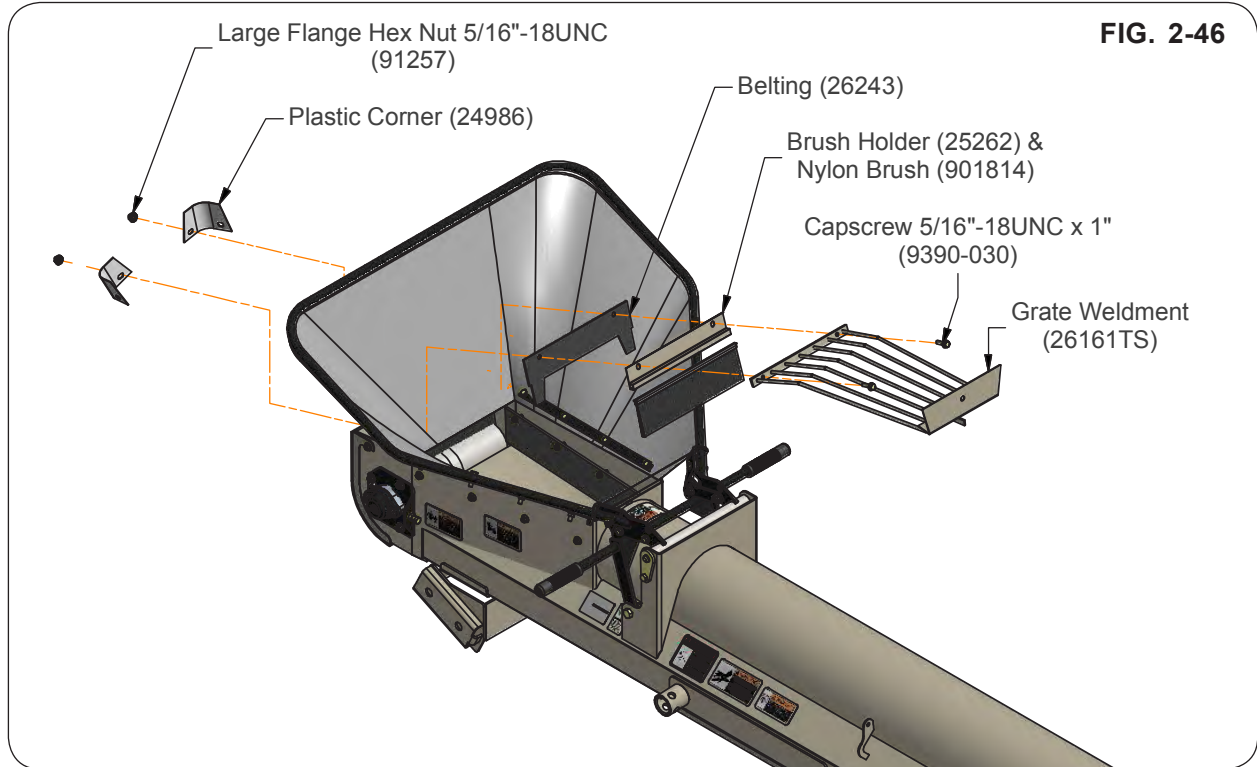


FIG. 2-45

Hopper Assembly (continued)

7. Insert the grate (26161TS), brush holder (25262), nylon brush (901814), belting (26243), plastic corners (24986) and secure with the two 5/16"-18UNC x 1" capscrews (9390-030), and two 5/16"-18UNC large flange hex nuts (91257) as shown in Fig. 2-46.



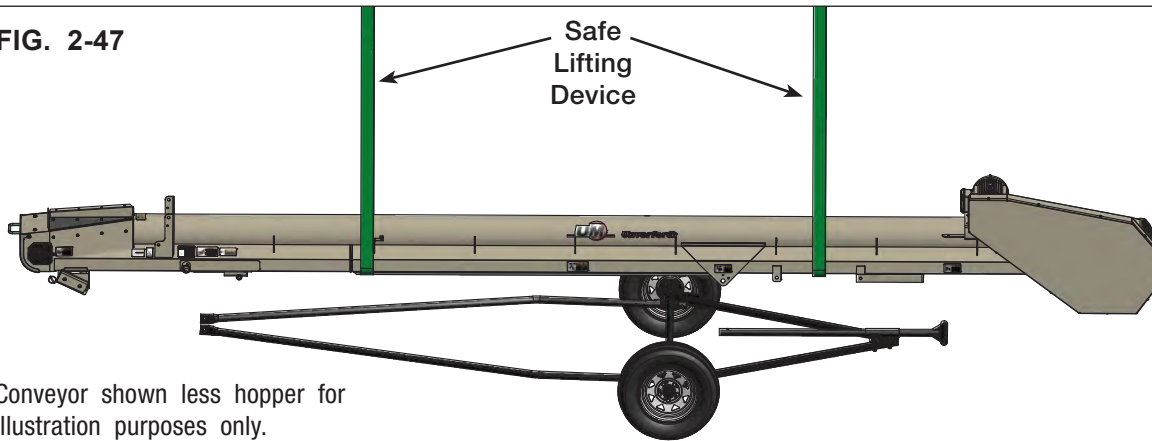
Attaching Conveyor to Undercarriage Lift Assembly

⚠ WARNING

- EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING IMPLEMENT.
- FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 1,500 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.
- KEEP HANDS CLEAR OF PINCH POINT AREAS.

1. With the conveyor undercarriage lift assembly laying open flat on the ground, use a safe lifting device rated at a minimum of 1,500 lbs. to raise the conveyor over the undercarriage lift assembly as shown in Fig. 2-47.

FIG. 2-47

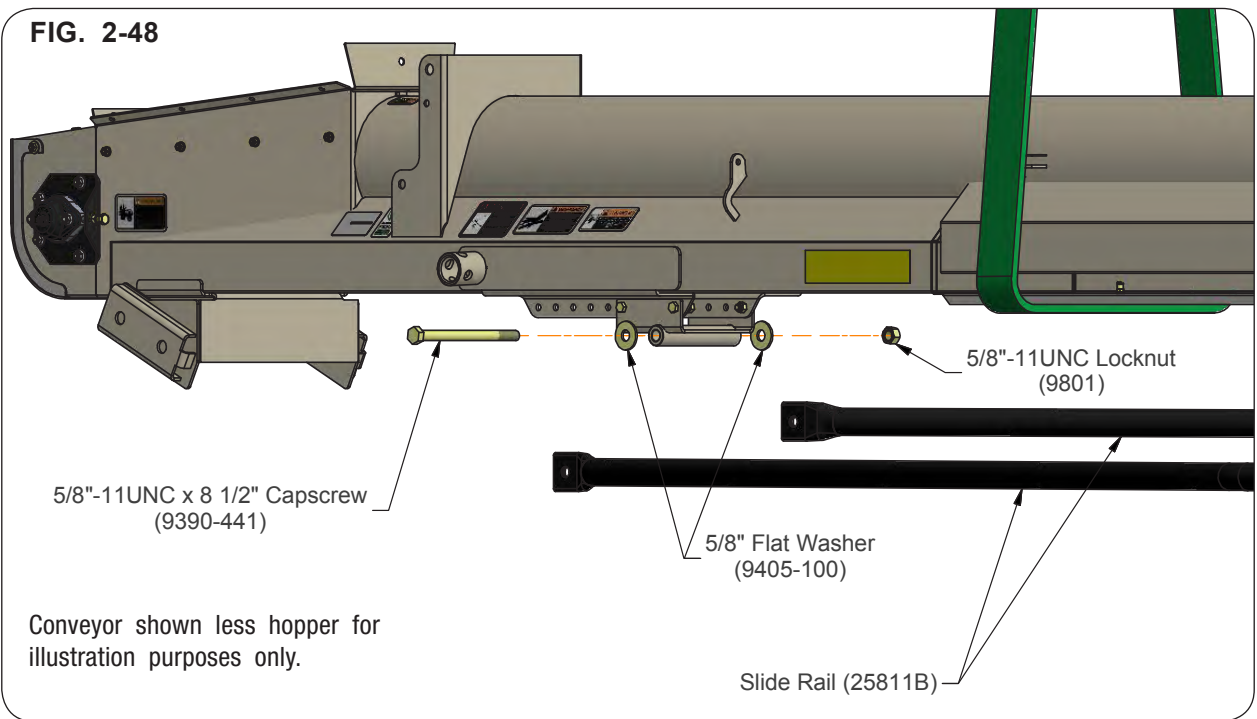


Conveyor shown less hopper for illustration purposes only.

Attaching Conveyor to Undercarriage Lift Assembly

2. Attach the side rails (25811B) to the bottom hopper end as shown in Fig. 2-48. Place a 5/8" flat washer (9405-100) on each side of the lower frame mount (2001198TS) before attaching the side rails (25811B) with a 5/8"-11UNC x 8 1/2" capscrew (9390-441) and 5/8"-11UNC locknut (9801). The bolt must be free to rotate after tightening the locknut. Do not overtighten.

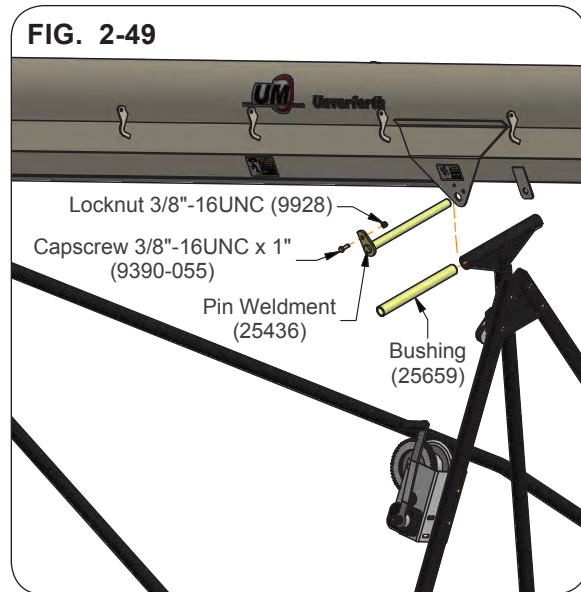
FIG. 2-48



Attaching Conveyor to Undercarriage Lift Assembly (continued)

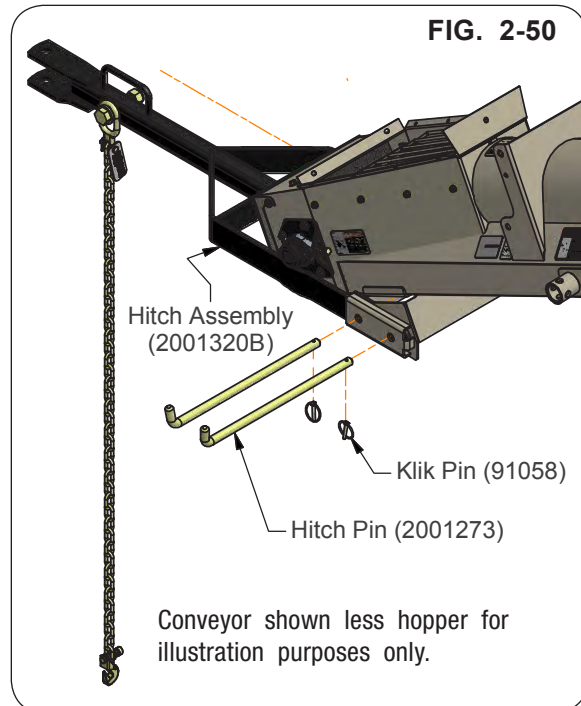
3. Attach the upper end of the conveyor to the undercarriage lift assembly with 13 1/2" pin weldment (25436), 3/8-16UNC x 1" capscrew (9390-055), and 3/8-16UNC locknut (9928) as shown in Fig. 2-49. When complete, slowly lower the conveyor until the lower end of the conveyor is resting on the ground.

FIG. 2-49



4. Insert the tongue weldment (2001320B) into the pockets at the bottom hopper end and secure into position with two rods (2001273) and klik-pins (91058) as shown in Fig. 2-49 and Fig. 2-50.

FIG. 2-50

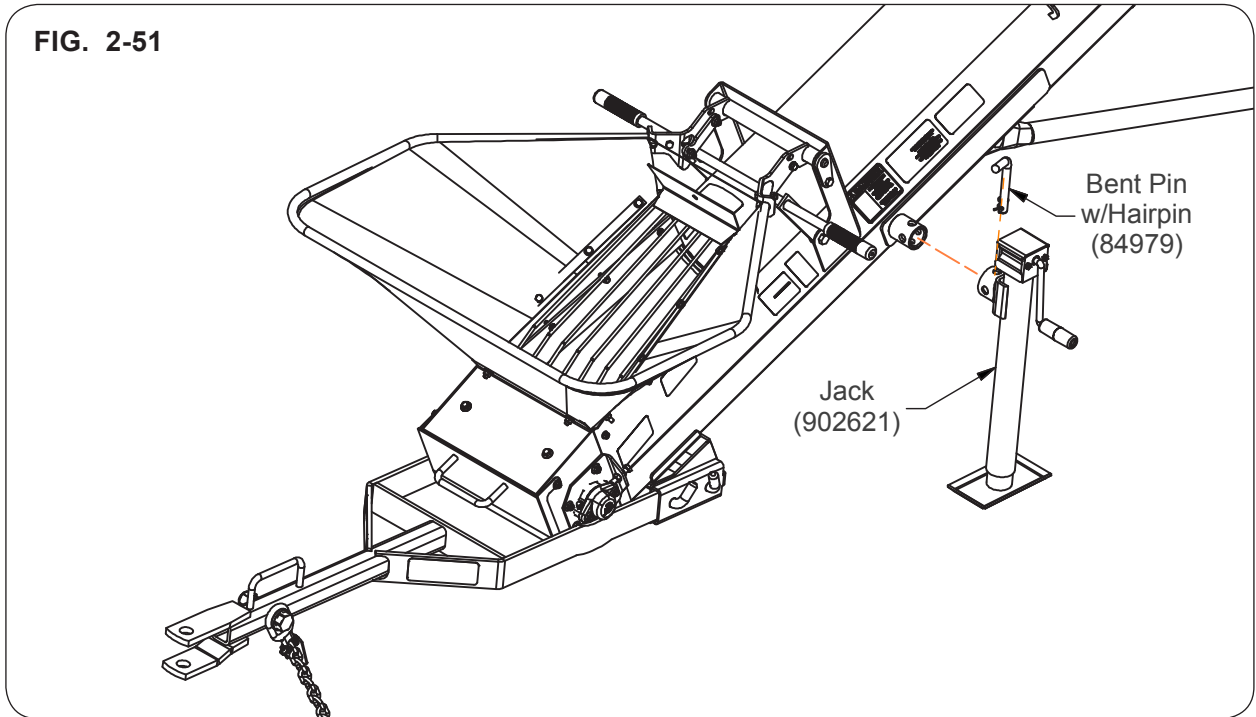


Conveyor shown less hopper for illustration purposes only.

Jack

1. Locate in parts box (2001212TS) the jack (902621) and bent pin with hairpin (84979) needed to secure the jack into position.

FIG. 2-51



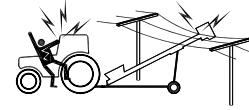
2. Attach jack (902621) with the bent pin with hairpin (84979) on the left-hand side of the machine as shown in Fig. 2-51.
3. Extend the jack until it supports the weight of the conveyor.

Hydraulic Drive System

Purging Hydraulic System

DANGER

- **ELECTROCUTION WILL CAUSE SERIOUS INJURY OR DEATH. THE CONVEYOR IS NOT INSULATED. KEEP AWAY FROM ALL ELECTRICAL LINES AND DEVICES. ELECTROCUTION CAN OCCUR WITHOUT DIRECT CONTACT.**



WARNING

- **HYDRAULIC SYSTEM MUST BE PURGED OF AIR BEFORE OPERATING TO PREVENT SERIOUS INJURY OR DEATH.**
- **HIGH-PRESSURE FLUIDS CAN PENETRATE THE SKIN AND CAUSE SERIOUS INJURY OR DEATH. SEEK MEDICAL TREATMENT IMMEDIATELY IF INJURED BY HIGH-PRESSURE FLUIDS. USE CARDBOARD TO DETECT LEAKS IN THE HYDRAULIC SYSTEM.**
- **RELIEVE HYDRAULIC PRESSURE BEFORE SERVICING HYDRAULIC SYSTEM. SEE THE HYDRAULIC POWER UNIT OPERATOR'S MANUALS FOR PROPER PROCEDURE.**

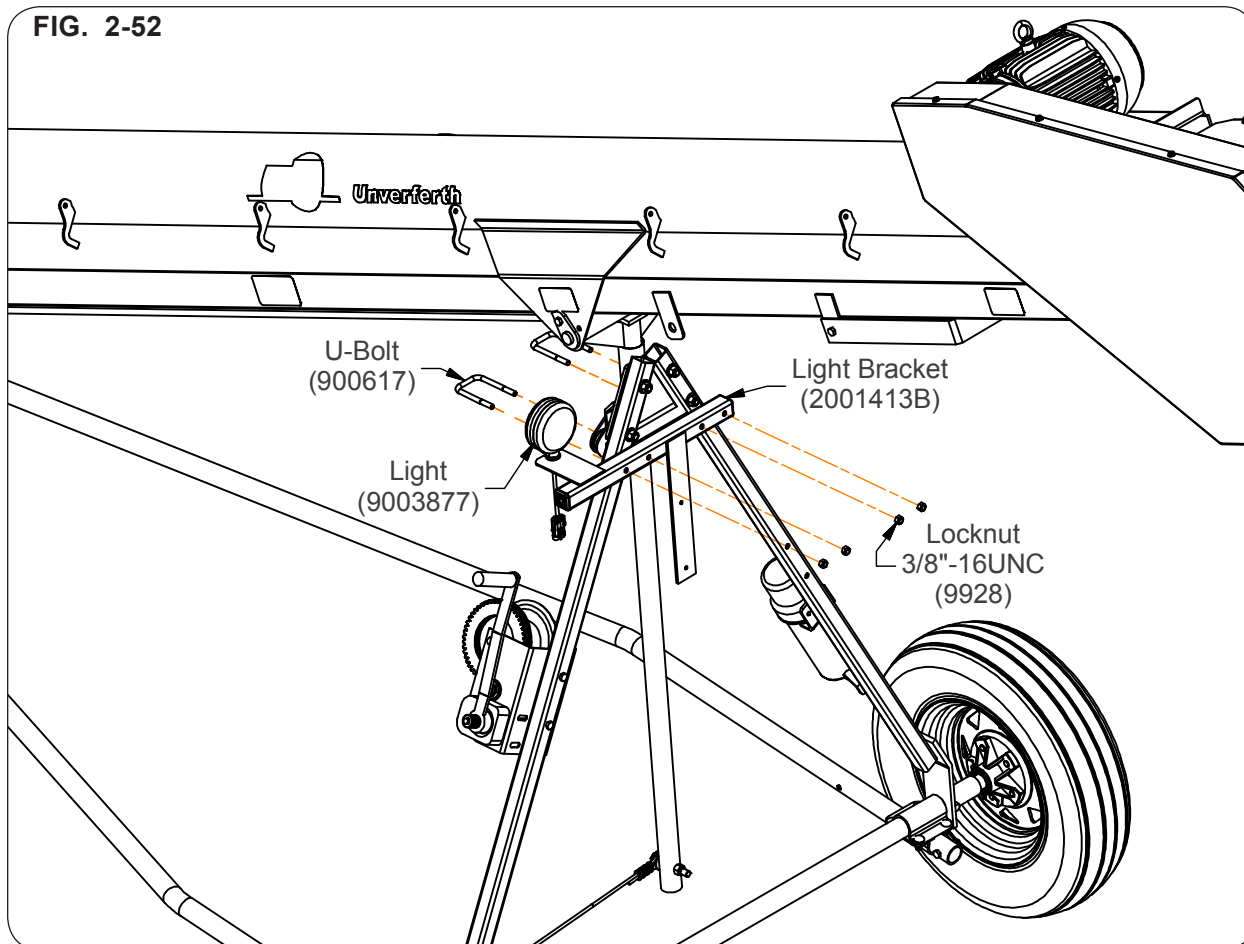


1. Be certain clearance to rafters, walls, machinery, etc. exists before moving the conveyor. With a tractor hooked to the unit, activate the conveyor belt to make sure everything moves freely. Do not pinch or kink hoses.
2. Check for and correct any leaks. Make sure the hoses are not kinked, stretched, or twisted. Secure the hoses to prevent cuts or chafing during operation.

Optional Light & Marking Kit #25775

1. Attach the light bracket (2001413B) between the leg weldments (2001235B) with the two 3/8"-16UNC U-bolts (900617) and 3/8"-16UNC locknuts (9928) as shown in Fig. 2-52. Attach the grips (92928) to the ends of the handle weldment (25395TS).

FIG. 2-52



2. Secure the light (9003877) on the light bracket (2001413B) with the red lens facing the rear of the unit (Fig. 2-52).
3. Connect the wiring harness (901706) to the light (9003877) (Fig. 2-52). Route the wiring harness along the frame to the hopper end of the conveyor.

Optional Light & Marking Kit #25775 (continued)

4. Attach the SMV (TA510514) to the light bracket (2001413B) with two 1/4"-20UNC x 3/4" capscrews (9390-003) and 1/4"-20UNC locknuts (9936) as shown in Fig. 2-53.

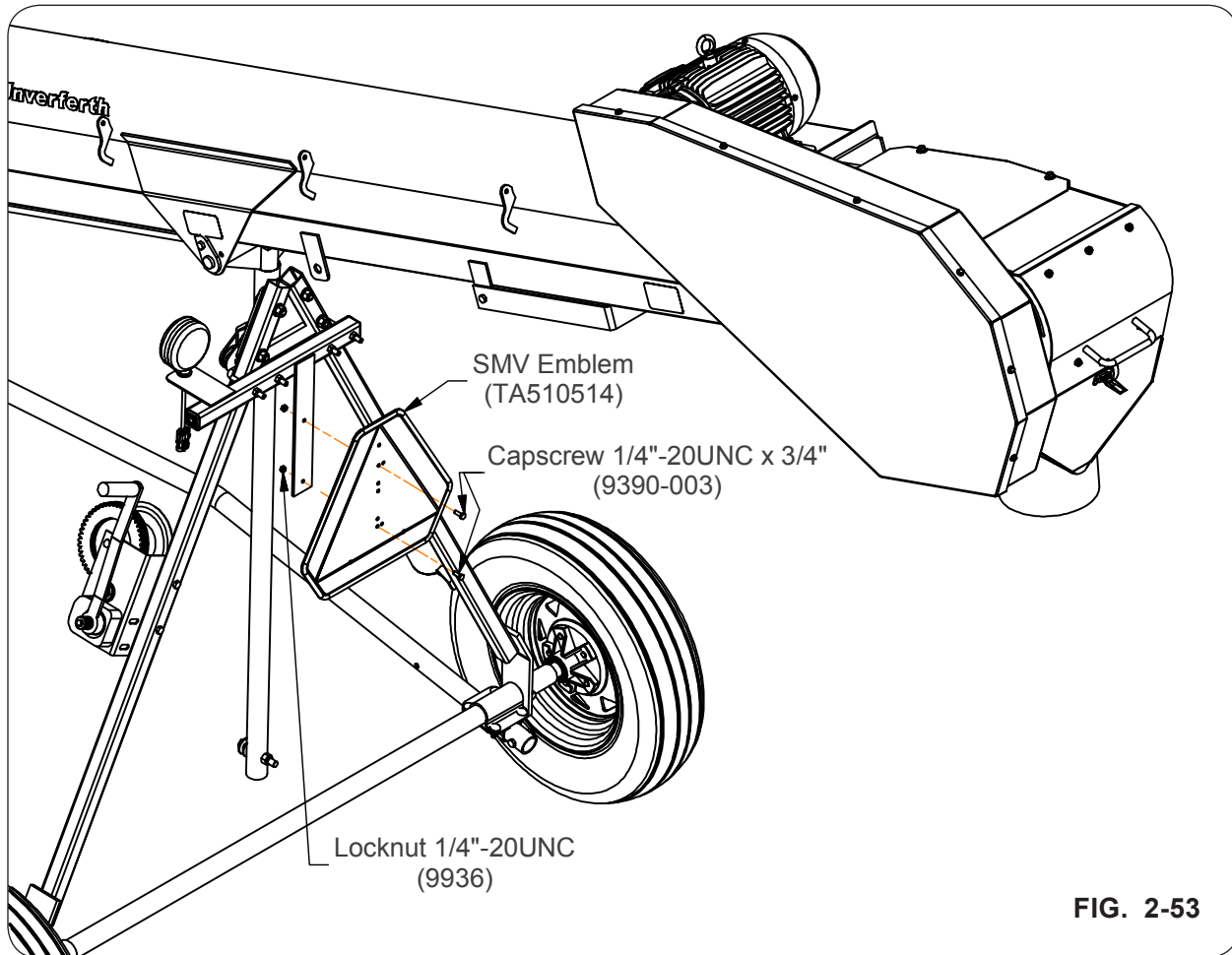
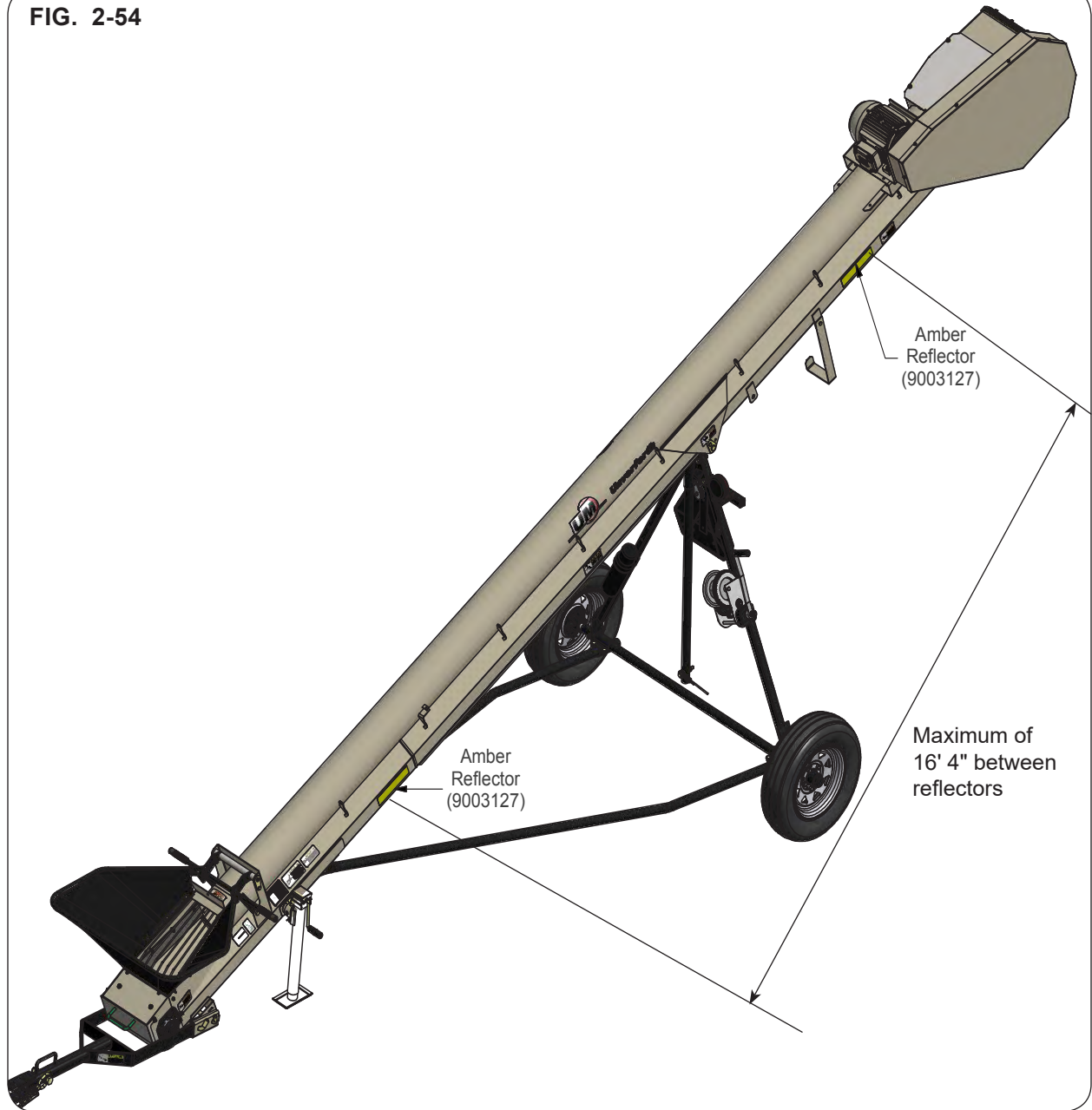


FIG. 2-53

Optional Light & Marking Kit #25775 (continued)

5. Place two amber reflectors (9003127) on each side of the conveyor as shown in Fig. 2-54.

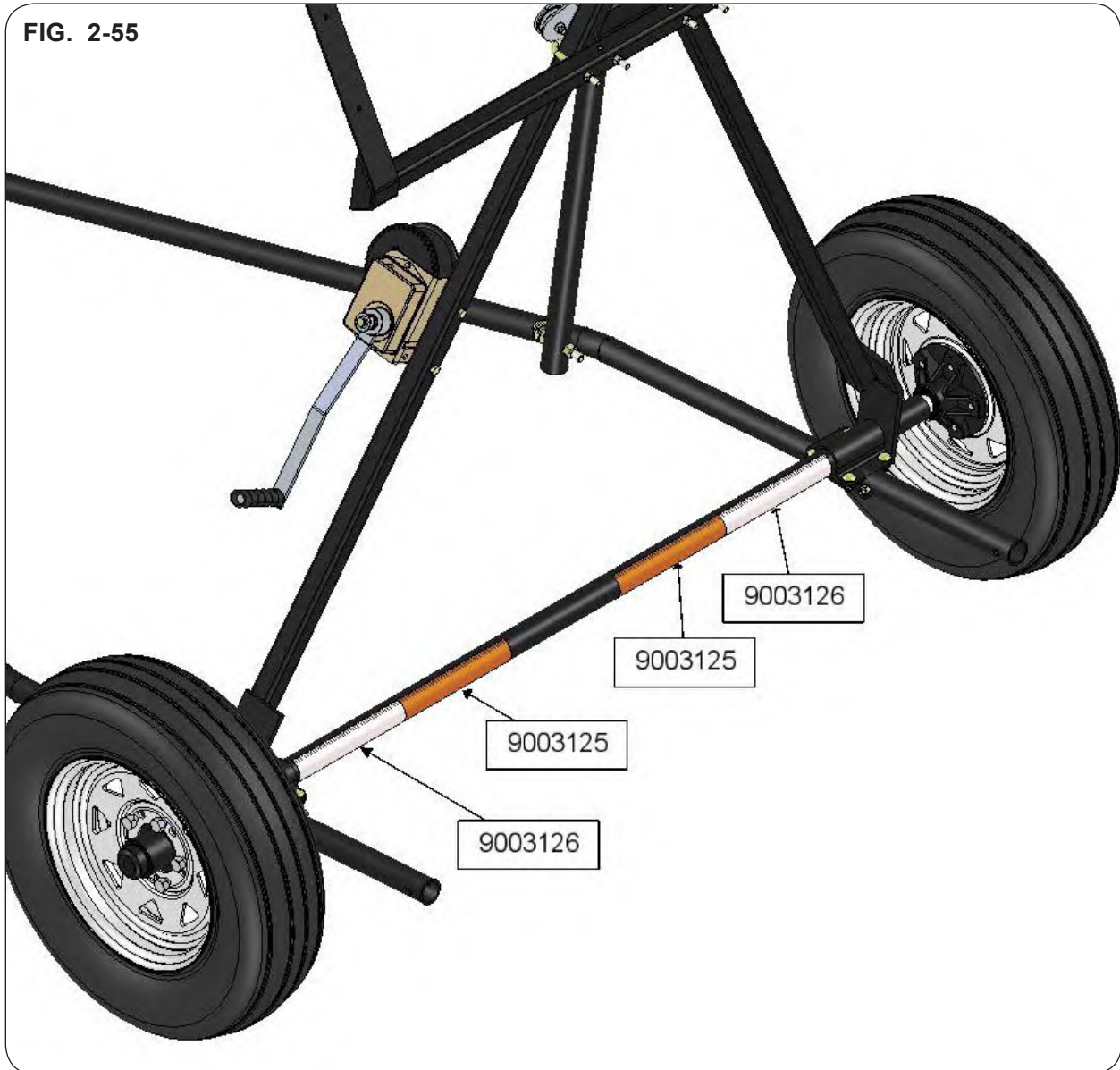
FIG. 2-54



Optional Light & Marking Kit #25775 (continued)

6. On the rear of the axle (TA1-113878-0) attach the red reflectors (9003126) and fluorescent orange decals (9003125) as shown in Fig. 2-55.

FIG. 2-55



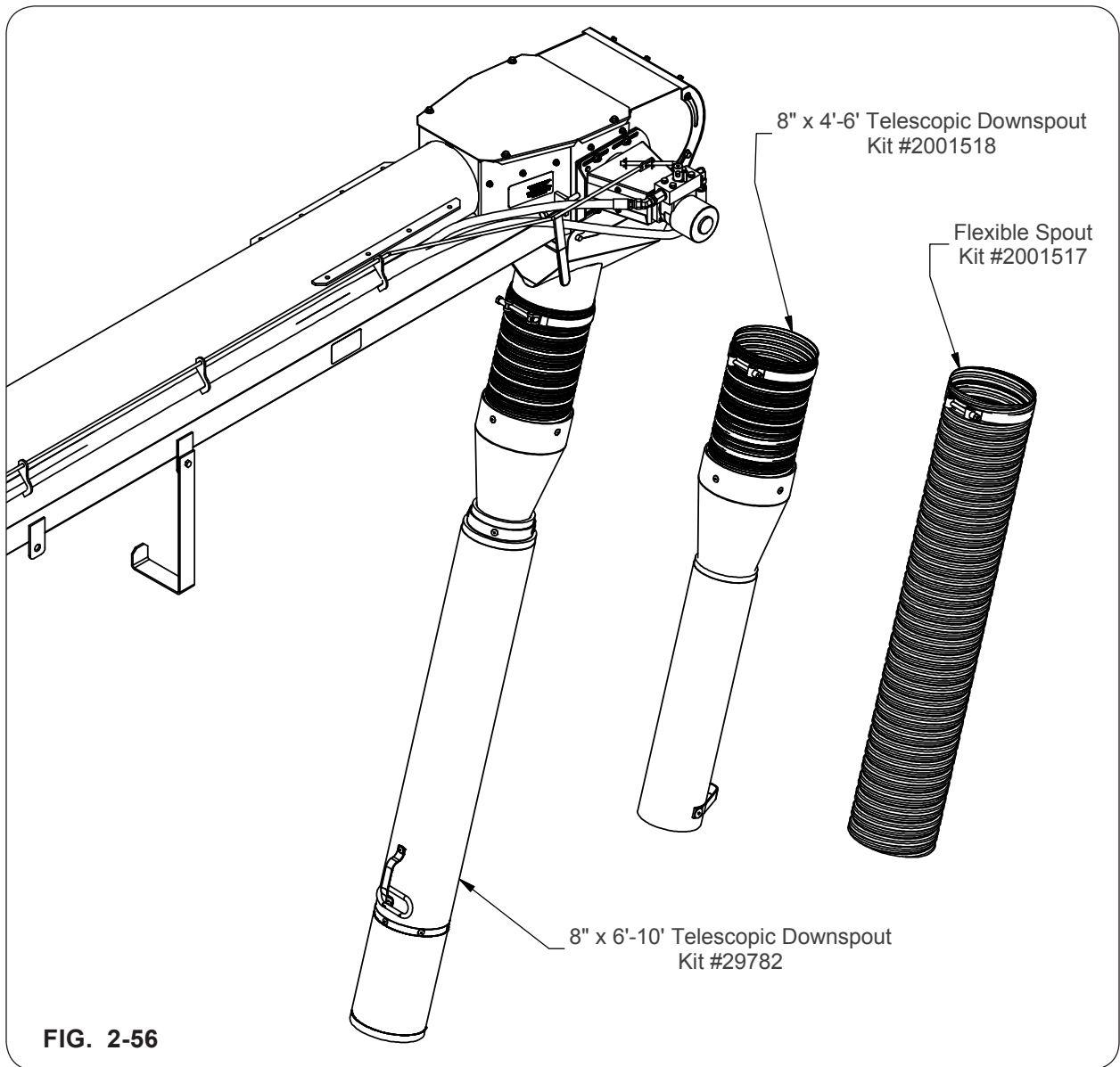
Optional Spout Kits

8" x 6'-10' Telescopic Downspout Kit #29782

8" x 4' Flexible Spout Kit #2001517

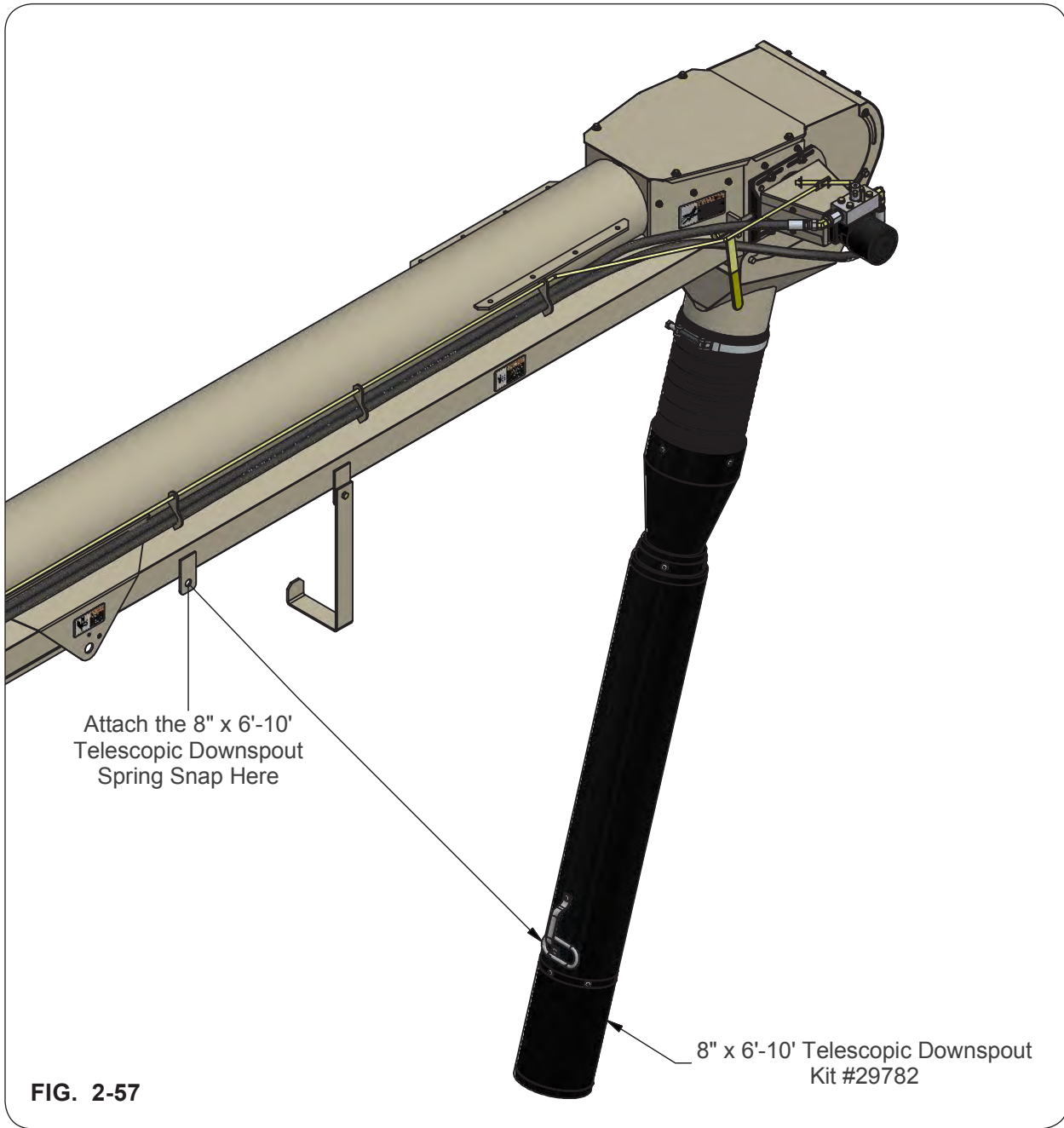
8" x 4'-6' Telescopic Downspout Kit #2001518

1. Attach the appropriate flexible spout to the spout weldment (26284TS) using clamp (901485) as shown in Fig. 2-56.



Optional Spout Kits (continued)

2. If using a 3-stage spout (29782), attach the spring snap. Refer to Fig. 2-57.



SECTION III

Operation

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Operating Instructions.....	3-6
Hydraulic Control	3-8
Cleanout Doors	3-9

Pre-Operation Checklist

- Read and understand all safety precautions before operating conveyor.
- Check all safety decals, and SMV sign if included, are clearly visible.
- Check winch is in good working order.
- Check tire pressures
- Check all lubrication points
- Check belt tension and alignment.
- Test run conveyor.
- Verify electrical connections.
- Check all hydraulic parts for leakage.

General Information

⚠ WARNING

- **KNOW AND UNDERSTAND SAFETY RULES BEFORE OPERATING OR SERVICING THIS MACHINE. REVIEW "SAFETY" SECTION IN THIS MANUAL IF NECESSARY.**

Read this operation section thoroughly. Acquaint yourself with the adjustments required to obtain efficient and trouble-free operations.

Connecting Conveyor to Transport Vehicle

1. Position the towing vehicle in front of the conveyor. Lift the tongue and attach to the vehicle hitch/drawbar using a 3/4" minimum diameter hitch pin and lock in place.
2. Install the transport chain (as shown in Fig. 3-1).

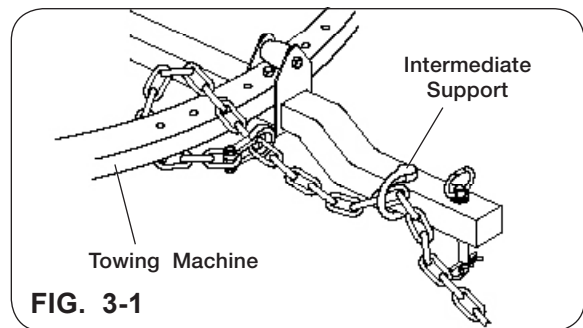


FIG. 3-1

⚠ CAUTION

- **REPLACE THE TRANSPORT CHAIN IF ANY LINK OR END FITTING IS BROKEN, STRETCHED OR DAMAGED. DO NOT WELD THE TRANSPORT CHAIN.**

NOTE: Conveyor must be empty before transporting, failure to do so voids warranty.

3. **CHECK THE FOLLOWING:**
Tires/Wheels: Check tire pressures and maintain at the recommended values listed in the Maintenance section of this manual.

⚠ CAUTION

- **IMPROPERLY TORQUED WHEEL NUTS/BOLTS CAN CAUSE A LOSS OF IMPLEMENT CONTROL AND MACHINE DAMAGE. WHEEL NUTS/BOLTS MUST BE CHECKED REGULARLY. SEE THE TORQUE PAGE IN THE MAINTENANCE SECTION FOR PROPER WHEEL NUT/BOLT SPECIFICATIONS. WARRANTY DOES NOT COVER FAILURES CAUSED BY IMPROPERLY TORQUED NUTS/BOLTS.**

For questions regarding new tire warranty, please contact your local original equipment tire dealer. Tire manufacturers' phone numbers and websites are listed in the Maintenance section of this manual for your convenience.

Transporting

Before Transporting

Lower conveyor to the ground being sure that the conveyor is completely seated on the frame and tension is removed from the cable. The jack stand must be fastened in the horizontal position before transporting.

NOTE: Conveyor must be empty before transporting, failure to do so voids warranty.

During Transport

Use caution when traveling, do not attempt to transport unit under low hanging tree branches, overhead telephone wires or electrical wires. Be aware of transport height of unit or damage could occur.

Comply with all state and local laws governing highway safety and regulations when moving equipment on public roads.

DANGER

- **ELECTROCUTION WILL CAUSE SERIOUS INJURY OR DEATH. THE CONVEYOR IS NOT INSULATED. KEEP AWAY FROM ALL ELECTRICAL LINES AND DEVICES. ELECTROCUTION CAN OCCUR WITHOUT DIRECT CONTACT.**

WARNING

- **ALWAYS TRAVEL AT A SPEED WHICH PERMITS COMPLETE CONTROL OF EQUIPMENT.**

CAUTION

- **USE APPROVED TRANSPORT LIGHTS AND REFLECTORS WHEN TRANSPORTING AT NIGHT, DURING PERIODS OF POOR VISIBILITY AND AS REQUIRED BY LOCAL LAW.**

Operation Recommendations:

- ❑ For smooth startups, start conveyor with as little grain in hopper as possible.
- ❑ Allow conveyor to reach operating speed before releasing grain into conveyor hopper.
- ❑ Properly break in conveyors at the beginning of each season by running conveyor at partial capacity for several hundred bushels of grain. This will relieve stress on conveyor by removing set from belt and polishing conveyor tube. Check belt tension and gradually increase to full operating capacity.
- ❑ In cold weather, run empty conveyor for 5 minutes to warm up belt. Otherwise, do not operate the conveyor empty for long periods of time.

Winch

Position Winch

WARNING

- **FALLING OR LOWERING EQUIPMENT CAN CAUSE SERIOUS INJURY OR DEATH. KEEP EVERYONE AWAY FROM EQUIPMENT WHEN SUSPENDED, RAISING OR LOWERING.**

There is a friction brake in the winch to hold the conveyor in position when the winch handle is released.

The winch, mounted on the conveyor trailer's lift frame, is used to raise and lower the conveyor for operation or transport.

See manufacturer's instructions on winch safety and operation.

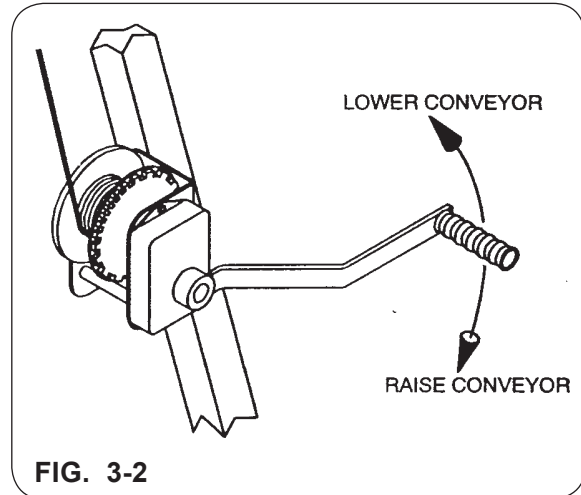


FIG. 3-2

Automatic Brake Winch

WARNING

- **FALLING OR LOWERING EQUIPMENT CAN CAUSE SERIOUS INJURY OR DEATH. KEEP EVERYONE AWAY FROM EQUIPMENT WHEN SUSPENDED, RAISING OR LOWERING.**

Winch (continued)

 **CAUTION**

- **NEVER APPLY LOAD ON WINCH WITH THE CABLE FULLY EXTENDED. KEEP AT LEAST THREE FULL TURNS OF CABLE ON THE REEL.**

Wind cable on winch reel by turning winch handle in clockwise direction. This should produce a loud, sharp, clicking noise. The load will remain in position when the handle is released. Wind cable off the winch reel by turning winch handle counterclockwise (no noise will be produced). The load will remain in position when the handle is released, but for extra security it is recommended that the handle be turned clockwise until at least two clicks are heard. This will add extra tightness to the brake mechanism. Always satisfy yourself that the winch is holding the load before releasing the winch handle.

IMPORTANT

- *Sufficient load must be applied to the cable to overcome internal resistance and operate the brake properly; otherwise, turning the crank handle counterclockwise will only remove the handle from the shaft - the reel will not turn. The minimum operating load requirement is 75 lbs.*

Hydraulic Control

⚠ WARNING

- **HYDRAULIC SYSTEM MUST BE PURGED OF AIR BEFORE OPERATING TO PREVENT SERIOUS INJURY OR DEATH.**
- **HIGH-PRESSURE FLUIDS CAN PENETRATE THE SKIN AND CAUSE SERIOUS INJURY OR DEATH. SEEK MEDICAL TREATMENT IMMEDIATELY IF INJURED BY HIGH-PRESSURE FLUIDS. USE CARDBOARD OR WOOD TO DETECT LEAKS IN THE HYDRAULIC SYSTEM.**
- **RELIEVE HYDRAULIC PRESSURE BEFORE SERVICING HYDRAULIC SYSTEM. SEE HYDRAULIC POWER UNIT OPERATOR'S MANUAL FOR PROPER PROCEDURE.**

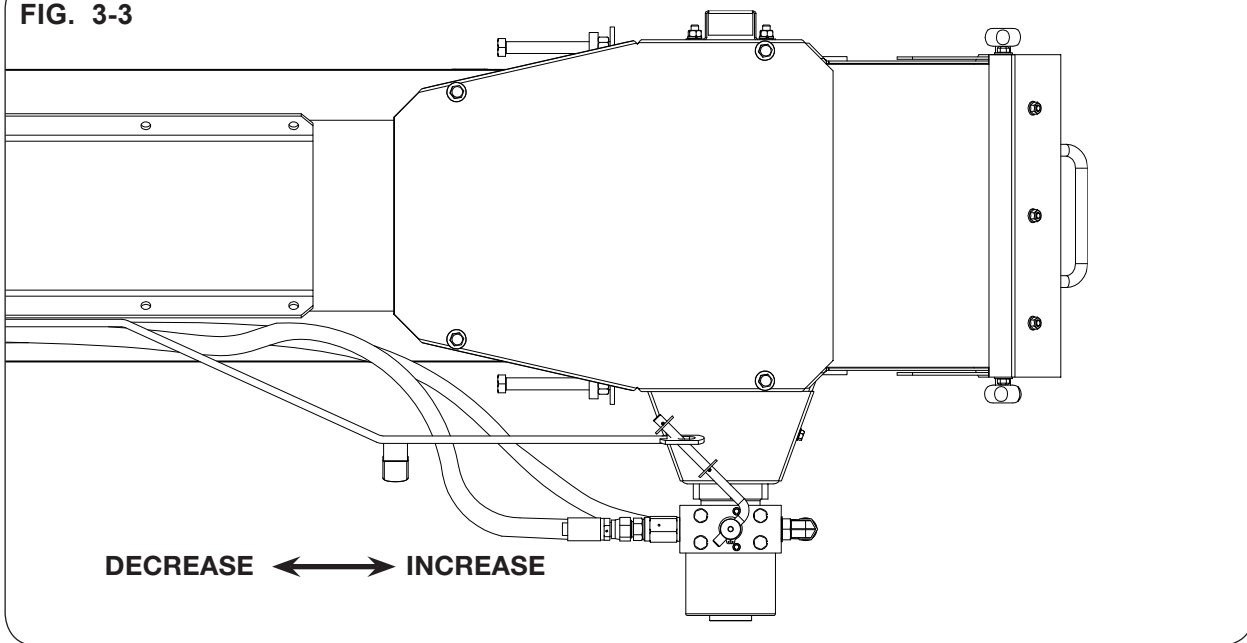
Check routing of all hydraulic hoses. Hoses should not be kinked, twisted, or rubbing against sharp edges. Hoses should be secured with tie straps. Check hose fittings for hydraulic leaks. Tighten and/or repair or replace as required.

Refer to your tractor operators manual for purging procedures.

Conveyor belt speed is controlled by moving the control rod running lengthwise along the side of the conveyor.

The flow control valve limits the amount of hydraulic fluid flowing to the hydraulic motor.

FIG. 3-3



Cleanout Doors

⚠ WARNING

- **MOVING OR ROTATING COMPONENTS CAN CAUSE SERIOUS INJURY OR DEATH. ALWAYS DISCONNECT POWER SOURCE BEFORE SERVICING. ENSURE SERVICE COVERS, CHAIN/BELT COVERS AND CLEAN-OUT DOOR(S) ARE IN PLACE AND SECURELY FASTENED BEFORE OPERATING THE MACHINE.**

The hopper end of the conveyor can be cleaned by releasing the latch and opening the cleanout door. The conveyor discharge head can be cleaned by releasing the latch and opening the cleanout door (Fig. 3-4).

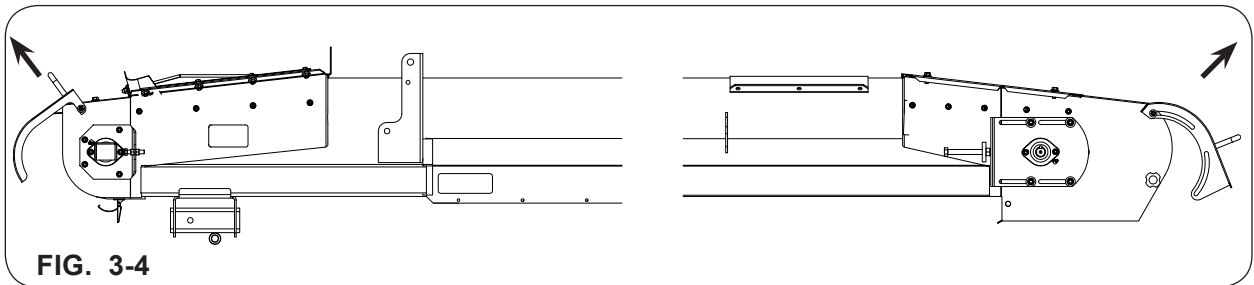


FIG. 3-4

Notes

SECTION IV

Maintenance

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Lubrication

Lubricate with an SAE multi-purpose grease. All fittings must be free from dirt and paint to insure entry of lubricant inside bearing.

Conveyor Bearings

Lubricate the bearings every 100 hours of operation and at the end of each season before storage. Use only one stroke of grease per bearing.

These bearings are shipped from our manufacturer full of grease. It is possible they will not take grease on a new machine.

CAUTION

- DO NOT USE A HIGH-PRESSURE GREASE GUN TO LUBRICATE THIS BEARING, AS DAMAGE TO BEARING SEAL COULD OCCUR.

NOTE: Excessive lubrication of this bearing will result in premature failure.

Miscellaneous Lube Points

Oil or grease periodically (or as needed) the following:

- Hinge for clean-out doors.
- On/Off control rod

Storage/Maintenance

Your conveyor is an important investment. Spend a little time to protect it from destructive rust and corrosion. You will be repaid in longer service life and better performance.

DO THE FOLLOWING AFTER USE:

1. Clean out conveyor/hopper. Use pressurized water to wash out conveyor and hopper after use.
2. Wipe off the following:
 - Hydraulic valve, motor, hoses, and fittings.
 - Swivel base, cradle.
 - Reflectors and warning/caution decals.
3. Check the following:
 - Mounting bolts for tightness.
 - Cable ties for tightness.
 - Valve, motor, hoses, and fittings for leaks, etc.
 - Hydraulic hoses for wear-abuse.

DO THE FOLLOWING BEFORE PLACING THE CONVEYOR IN STORAGE:

- Repaint any chipped or scraped areas.
- Inspect for damaged or worn parts. Replace before next season.
- Store unit inside, away from livestock.

Winch Maintenance

WARNING

- **FALLING OR LOWERING EQUIPMENT CAN CAUSE SERIOUS INJURY OR DEATH. KEEP EVERYONE AWAY FROM EQUIPMENT WHEN SUSPENDED, RAISING OR LOWERING.**

CAUTION

- **NEVER APPLY LOAD ON WINCH WITH THE CABLE FULLY EXTENDED. KEEP AT LEAST THREE FULL TURNS OF CABLE ON THE REEL.**

Keep winch in good working order. Damaged or severely worn parts create unnecessary dangers and could result in personal injury or property damage. The winch requires periodic maintenance. The following check should be made at least once annually and more frequently when the winch is exposed to an environment which is particularly dirty or wet.

1. Remove all of the load from the winch so that there is slack in the cable. Remove the winch handle and gear cover for inspection of the winch gear train and brake mechanism. This requires removal of the bolt along with flat washer, spacer, and spring and requires that the handle be unthreaded (counterclockwise direction) from the drive shaft. The gear cover can then be removed.
2. Examine the winch gear train and brake mechanism for any rust, corrosion or build up of debris which might be present. Grasp the ratchet pawl and lift it out of contact with the ratchet wheel. Remove the ratchet wheel and two brake plates from the drive shaft.

IMPORTANT

- *Relax the spring tension on the ratchet pawl paying particular attention to the attachment of the pawl to the spring and the amount of tension in the spring.*
3. Check the entire gear train for any abnormal wear and be sure that the entire gear train turns freely. Grease all of the gear teeth with a good wheel bearing grease. Remove and grease reel bolt, reinstall reel bolt and tighten, making sure that reel shaft will not rotate in winch base. On the opposite side of the winch base, check to be sure that the retaining ring is securely in place on the winch drive shaft.

Winch Maintenance (continued)

4. Check the ratchet wheel, brake lining plates, winch handle hub, and the washer on the brake winch hub assembly for any build up or glaze (shiny spots) which may be present. This can be removed by rubbing these parts lightly with sand paper.

 WARNING

- **BRAKE SYSTEM FAILURE CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT GREASE OR OIL ANY OF THE BRAKE MECHANISM COMPONENTS.**

5. Reassemble the two brake pads and the ratchet wheel onto the drive shaft while holding tension in the ratchet pawl. All of these parts should spin freely on the drive shaft. Be sure that the pawl properly engages with the teeth on the ratchet wheel. When cranking the handle in the clockwise direction, the ratchet wheel should turn with the shaft causing the pawl to snap in and out of the ratchet wheel teeth. In the counterclockwise direction the ratchet wheel should remain stationary while the handle turns.
6. Completely reassemble the winch gear cover, handle and all remaining parts. Check the mounting of the winch to be sure that it is secure and check the cable for any abnormal stiffness, kinking, or broken strands. Replace the winch cable at the first sign of damage.

NOTE: Winch cable will last longer and remain more flexible with occasional application of light oil. The winch finish can be protected and will provide longer service if it is washed with water and then wiped with light oil or wax.

If you have any questions whatsoever concerning the above procedure, please contact the winch manufacturer.

Conveyor Belt

Proper belt tension and correct ‘tracking’ of the belt are critical to maintaining the belt for years of worry-free use. Belt tension and tracking should be checked at the beginning of each season. Belt alignment should be checked after the first very first initial use then after the first 2 hours of initial use or after every adjustment of belt tension/alignment. Once belt tracking is set, it will be necessary to check alignment after every 8 hours of use.

WARNING

- **MOVING OR ROTATING COMPONENTS CAN CAUSE SERIOUS INJURY OR DEATH. USE EXTREME CARE WHEN INSPECTING AND ADJUSTING BELT TRACKING.**

Belt Tension

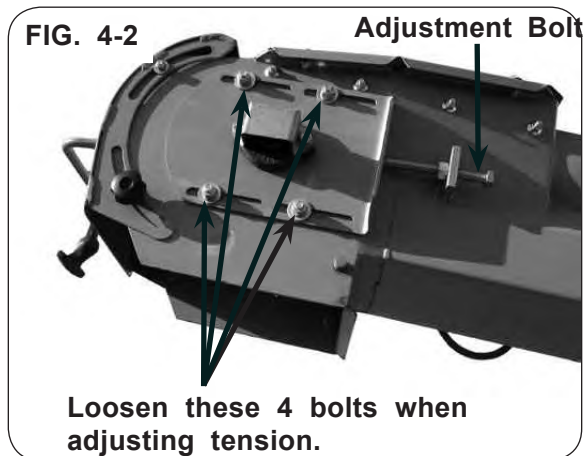
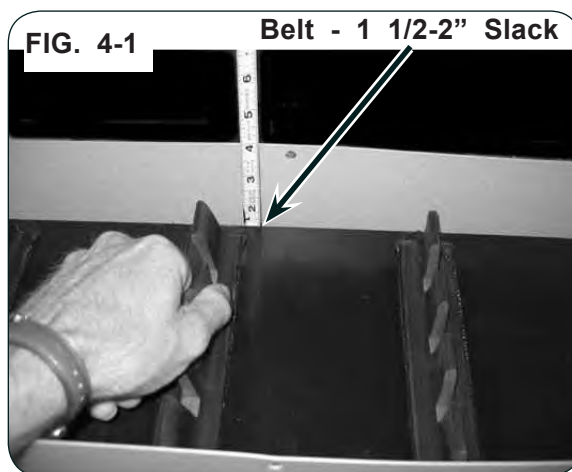
Belt tension is inspected by removing lower cover panel from conveyor, and gently pulling on the conveyor belt. The belt should have approximately 1 1/2-2” of slack at the center.

Belt tension is adjusted at the discharge end of the conveyor. Loosen, **DO NOT REMOVE**, the four 3/8 bolts on each side of the conveyor. Use the two adjusting bolts to adjust the belt to the proper tension.

It is important to move both sides the same distance. Too much tension on the belt will stretch the splice link and greatly reduce belt life. Too little tension on the belt could result in belt slipping on drive pulley. Replace the bottom cover panel and continue to check belt tracking before re-tightening the four bolts on each side of the conveyor.

IMPORTANT

- *Belt tracking must be done every time tension is adjusted.*



Conveyor Belt (continued)

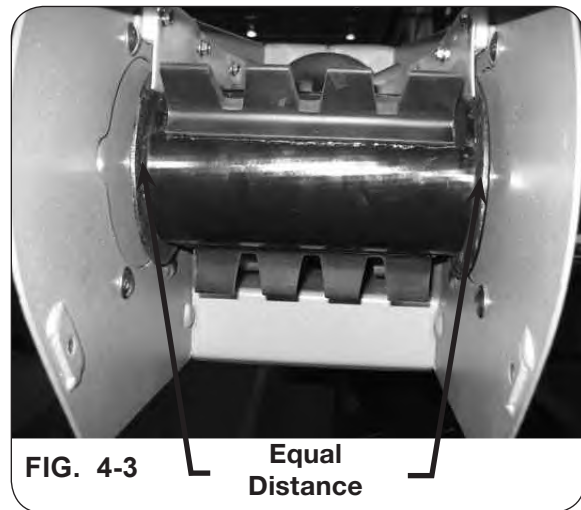
Belt Tracking

WARNING

- **MOVING OR ROTATING COMPONENTS CAN CAUSE SERIOUS INJURY OR DEATH. USE EXTREME CARE WHEN INSPECTING AND ADJUSTING BELT TRACKING.**

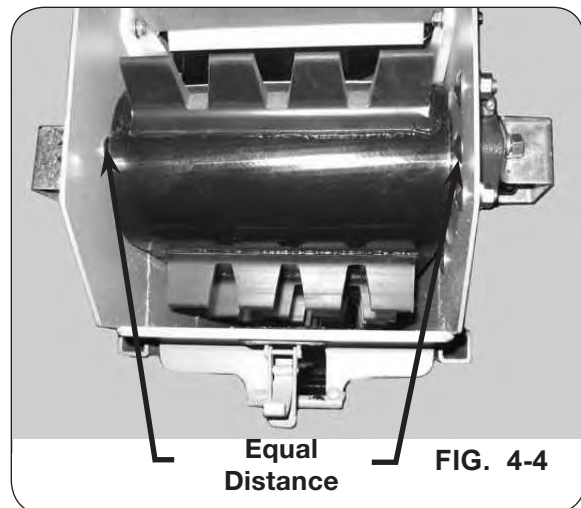
Conveyor belt must always run at the center of the pulley on both the intake and discharge end. Improper tracking of the belt will result in excessive wear to the edge of the belt, and will greatly reduce belt life. Check belt tracking every 8 hours of use, and every time belt tension is adjusted.

Inspect tracking of belt at discharge end by removing lower spout, pivoting deflector up, and looking up at the belt and pulley. Belt should be in center of pulley.



Adjust by loosening, **DO NOT REMOVE**, the four bolts on the side of the conveyor. Operate conveyor at slow speed, and tighten or loosen the adjustment bolt until belt is running in the center of the pulley.

Tighten all bolts on side of conveyor, and lock adjustment bolts into place.

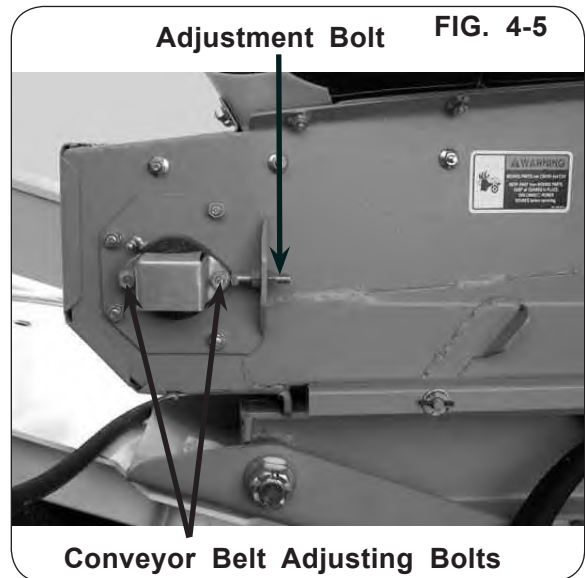


Conveyor Belt (continued)

Belt Tracking (continued)

Adjust by loosening (Do Not Remove) the four bolts (two on each side) on the adjusting plate.

Inspect tracking of belt at intake end by opening bottom inspection door on conveyor. Belt should be in the center of the pulley.



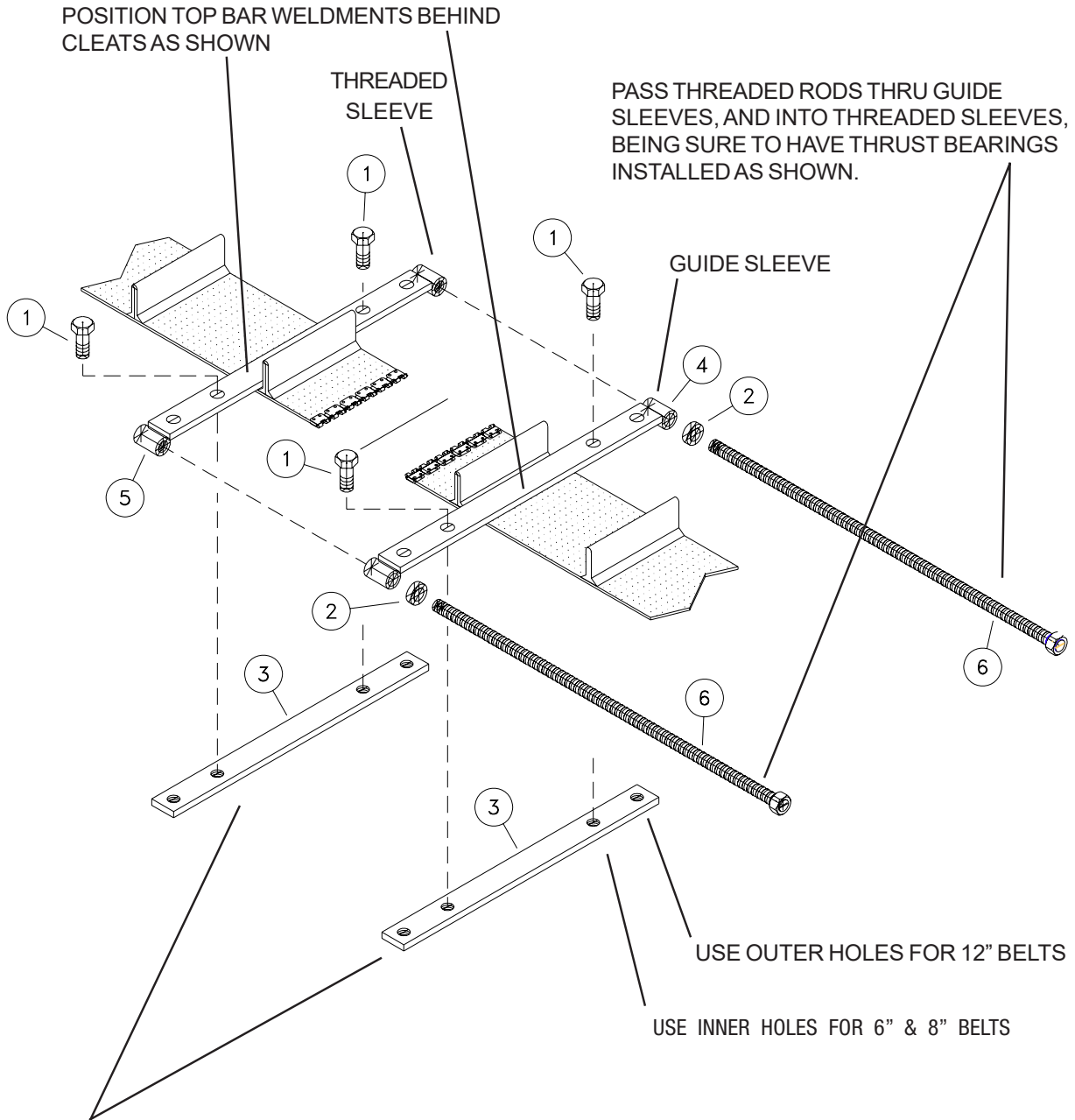
Operate conveyor at slow speed, and tighten or loosen adjustment bolt until belt is running in the center of the pulley.

Tighten the two bolts on the adjustment plate, and lock the adjustment bolt into place.

Belt Change Procedures

1. Remove the access panel from the underside near the center of the conveyor housing.
2. Run the conveyor belt until the splice is positioned in the access opening.
3. Reduce tension from the belt by turning the tensioning bolts on the end of the conveyor.
4. Attach the belt stretcher to the belt to remove tension on the belt splice. Remove connecting wire from the splice.
5. Attach the new belt to the original belt splice using a length of small diameter wire.
6. Pull the original belt out of the conveyor. When finished, the new belt should be routed through the conveyor, remove the temporary splice wire and discard.
7. Reinstall the belt stretcher to the new belt to draw the splice together. Insert the vinyl coated cable through the splice, attach the small bent washers on each end of the cable by crimping tight with a pliers. Remove the belt stretcher from the new belt.
8. Increase tension on the new belt by adjusting the tensioning bolts on the end of the conveyor housing, making sure the belt tracking is centered.
9. Install access panel door removed in step 1.

Optional Belt Stretcher



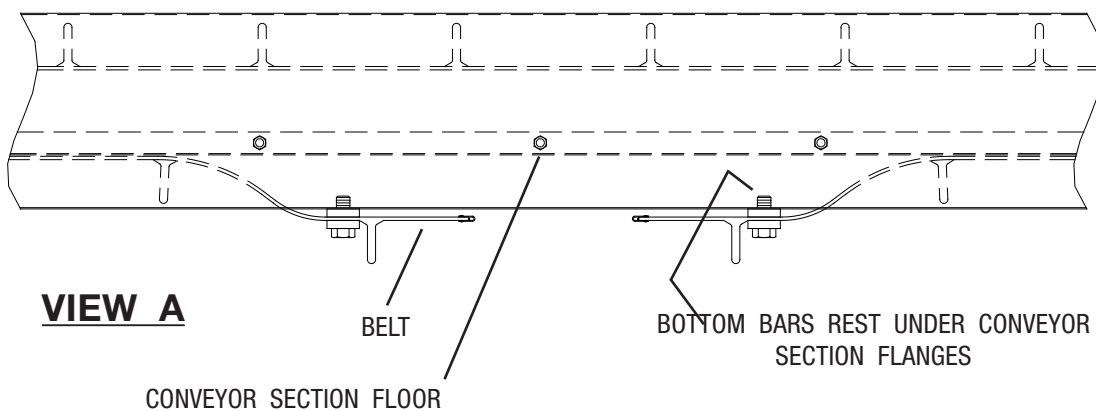
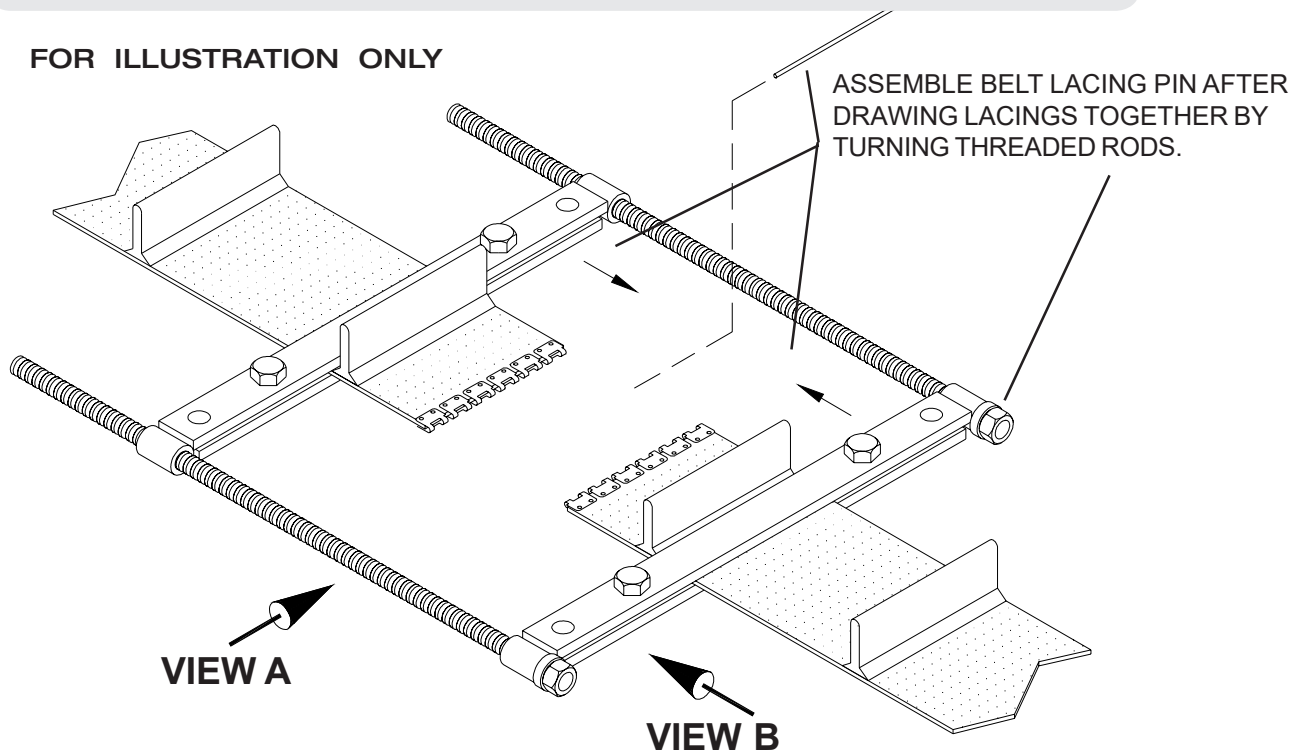
INSTALL BOTTOM BARS ACROSS UNDERSIDE OF BELT, AND SECURE WITH FOUR 5/8NC X 1-1/2" BOLTS THROUGH TOP BARS AS SHOWN.

REF	PART NO.	QTY	DESCRIPTION
	TA4-114400-0	1	BELT INSTALLATION TOOL
1	9390-122	4	CAPSCREW, 5/8-11UNC x 1 1/2 LG. GRADE 5
2	TA0-903118-0	2	BEARING, BALL THRUST, 5/8" I.D.
3	TA1-114401-0	2	BOTTOM BAR
4	TA2-114404-0	1	PLAIN TOP BAR WELDMENT
5	TA2-114406-0	1	THREADED TOP BAR WELDMENT
6	TA1-114408-0	2	THREAD ROD WELDMENT
	TA4-114400-OLU	1	BELT INSTALLATION TOOL KIT

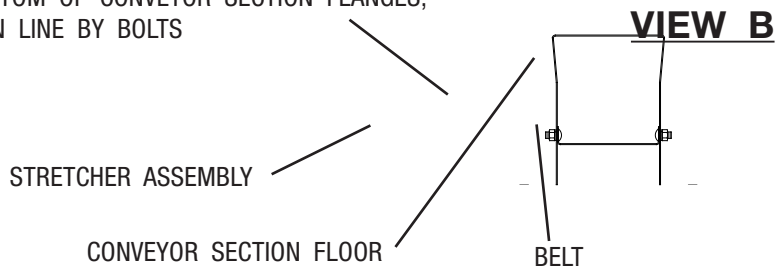
Optional Belt Stretcher (continued)

Stretcher Assembled to Belt

FOR ILLUSTRATION ONLY



STRETCHER ASSEMBLY RIDES ON BOTTOM OF CONVEYOR SECTION FLANGES,
AND IS HELD IN LINE BY BOLTS



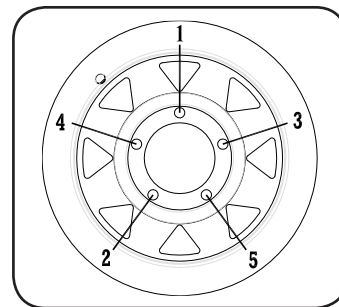
Wheels and Tires

Wheel Nut Torque Requirements

CAUTION IMPROPERLY TORQUED WHEEL NUTS/BOLTS CAN CAUSE A LOSS OF IMPLEMENT CONTROL AND MACHINE DAMAGE. TORQUE WHEEL NUTS/BOLTS TO VALUES IN TABLE. CHECK TORQUE BEFORE USE, AFTER ONE HOUR OF UNLOADED USE OR AFTER FIRST LOAD, AND EACH LOAD UNTIL WHEEL NUTS/BOLTS MAINTAIN TORQUE VALUE. CHECK TORQUE EVERY 10 HOURS OF USE THERE-AFTER. AFTER EACH WHEEL REMOVAL START TORQUE PROCESS FROM BEGINNING. WARRANTY DOES NOT COVER FAILURES CAUSED BY IMPROPERLY TORQUED WHEEL NUTS/BOLTS.

Failure to check torque before first load may damage wheel nut/bolt seats. Once seats are damaged, it will become impossible to keep nuts/bolts tight. Tighten nuts/bolts to applicable torque value shown in table. Start all nuts/bolts by hand to prevent cross threading. Torque nuts/bolts in the recommended sequence as shown in Diagram 1.

WHEEL HARDWARE	
SIZE	FOOT-POUNDS
1/2-20 (UNF)	75 ft.-lbs.



5 BOLT
DIAGRAM 1

Tire Pressure

- The following is to be used as a general guide for tire inflation and figures can vary depending on specific brand of tire used. It is important that tires are inspected on a regular basis. Start with minimum pressure indicated. The tire should stand up with no side-wall buckling or distress as tire rolls. Record the pressure needed to support the full load and maintain this pressure to achieve proper tire life. Do not exceed maximum recommended tire pressure.

Recommended....50 PSI maximum

Wheels and Tires (continued)

Tire Warranty

For questions regarding new tire warranty, please contact your local original equipment tire dealer. Used tires carry no warranty. Following are phone numbers and Websites for your convenience:

<u>Carlisle</u>	www.carlisletire.com
	Phone 800-260-7959
	Fax 800-352-0075

Complete Torque Chart - Capscrews - Grade 5

IMPORTANT

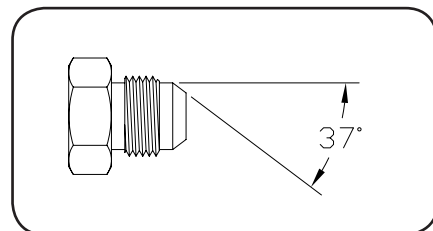
- Grade 5 capscrews can be identified by three radial dashes on head.
- For wheel torque requirements, refer to *Wheels and Tires*.
- Tighten U-bolts to have the same number of threads exposed on each end.

SIZE	FOOT POUNDS	NEWTON METERS	SIZE	FOOT POUNDS	NEWTON METERS
1/4-20	8-10	11-13	3/4-10	200-220	270-300
1/4-28	9-11	12-15	3/4-16	210-230	285-310
5/16-18	15-17	20-23	7/8-9	330-350	425-475
5/16-24	17-19	23-26	7/8-14	360-380	460-515
3/8-16	25-28	34-38	1-8	500-525	675-710
3/8-24	28-31	38-42	1-14	540-560	730-760
7/16-14	40-45	54-61	1 1/8-7	600-635	815-860
7/16-20	45-50	61-68	1 1/8-12	665-700	920-950
1/2-13	62-68	84-92	1 1/4-7	850-895	1150-1215
1/2-20	68-75	92-102	1 1/4-12	940-990	1275-1340
9/16-12	90-98	22-133	1 3/8-6	1125-1175	1525-1590
9/16-18	100-110	134-148	1 3/8-12	1280-1335	1735-1810
5/8-11	120-135	162-183	1 1/2-6	1500-1560	2035-2115
5/8-18	124-137	168-186	1 1/2-12	1685-1755	2285-2380

Hydraulic Fittings - Torque and Installation

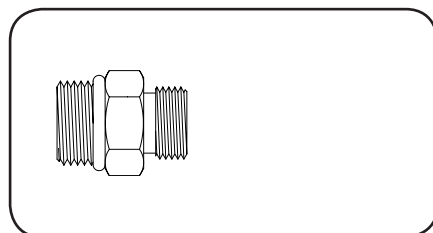
SAE FLARE CONNECTION (J.I.C.)

1. Tighten nut with finger until it bottoms the seat.
2. Using a wrench, rotate nut to tighten. Turn nut 1/3 turn to apply proper torque.



SAE STRAIGHT THREAD O-RING SEAL

1. Insure jam nut and washer are backed up to the back side of smooth portion of elbow adapter.
2. Lubricate o-ring -- VERY IMPORTANT!
3. Thread into port until washer bottoms onto spot face.
4. Position elbows by backing up adapter.
5. Tighten jam nut.



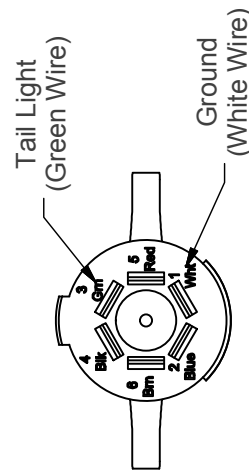
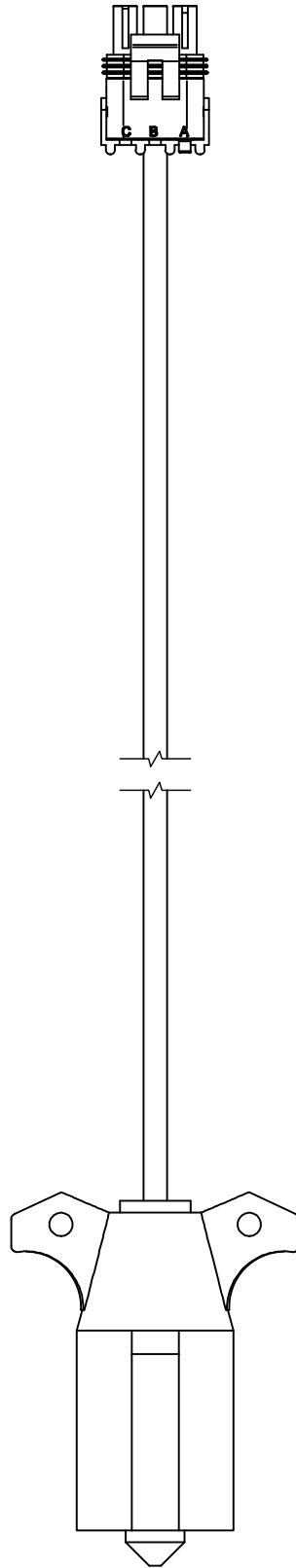
Troubleshooting

PROBABLE CAUSE	CORRECTION
Pump/Motor Seals Blow - Shaft/Housing Breaks - Hose Burst	
<p>When a standard control valve is returned to neutral, to stop, or start a motor, sudden pressure is created which may break seals, tear off motor shafts, burst housing or hoses. (Especially at speed under load.) This sudden shock cannot be relieved through the primary relief valve in the system</p>	<p>Avoid sudden and rapid starting and stopping (or convert to a free wheeling control valve (on the tractor) or a cushion valve may be installed)</p>
Conveyor Will Not Turn Over or Develop Proper Speed/Torque	
<p>Pump does not deliver sufficient pressure or volume</p>	<p>Check output and delivery, change if necessary</p>
<p>Conveyor jammed</p>	<p>Shut-off and lock-out power, open clean-out door and remove excess material (make sure swivel spout is clear)</p>
<p>Oil level too low</p>	<p>Fill to proper level</p>
Conveyor Runs Too Slow	
<p>Engine running too slow</p>	<p>Increase engine speed</p>
<p>Pump not producing minimum required flow and pressure</p>	<p>Check pump fluid capacity and correct</p>
<p>Pump is worn</p>	<p>Repair or replace pump</p>
<p>Internal leak in controls or motor</p>	<p>Replace seals; repair or replace valves or motor</p>
<p>Air in system</p>	<p>Bleed system and tighten connections</p>
<p>Improper hydraulic oil viscosity</p>	<p>If conveyor starts slowly and speed increases after oil heats up, oil is too heavy weight. If conveyor slows down after oil heats up, oil is too light weight</p>

Troubleshooting (continued)

PROBABLE CAUSE	CORRECTION
Oil Heats Excessively	
Oil viscosity incorrect	Drain and refill with proper weight oil
Dirty oil	Drain, flush, and refill with a clean oil and filter
Oil level too low	Fill to proper level
Oil slipping through worn pump	Repair or replace pump
Restricted line or piping	Reroute lines to eliminate restrictions
Reservoir too small to provide adequate cooling	Replace with larger reservoir or install oil cooler
Belt Edges Showing Excessive Wear	
Belt tracking incorrect	Adjust tracking as detailed in service section page 4-6.
Poly seals on intake and/or discharge end worn.	Replace poly seals
Conveyors Moving in Wrong Direction	
Control valve on tractor not set properly	Reset

Optional Lighting Wiring Harness #901706



Note: Pins Left Blank: Blue (2), Black (4), Red (5), Brown (6), & Center Pin (7)

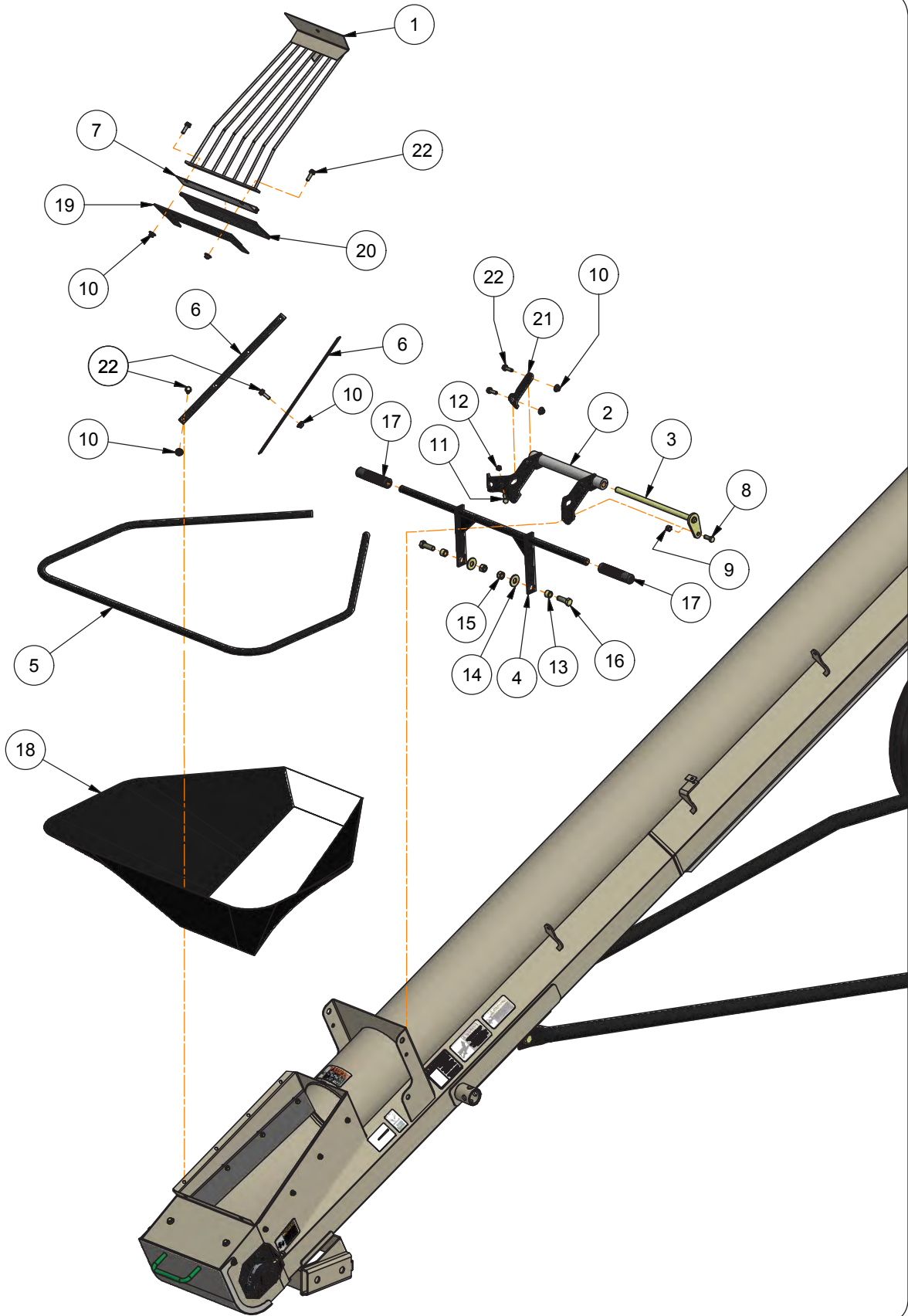
Notes

SECTION V

Parts

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Hopper Components

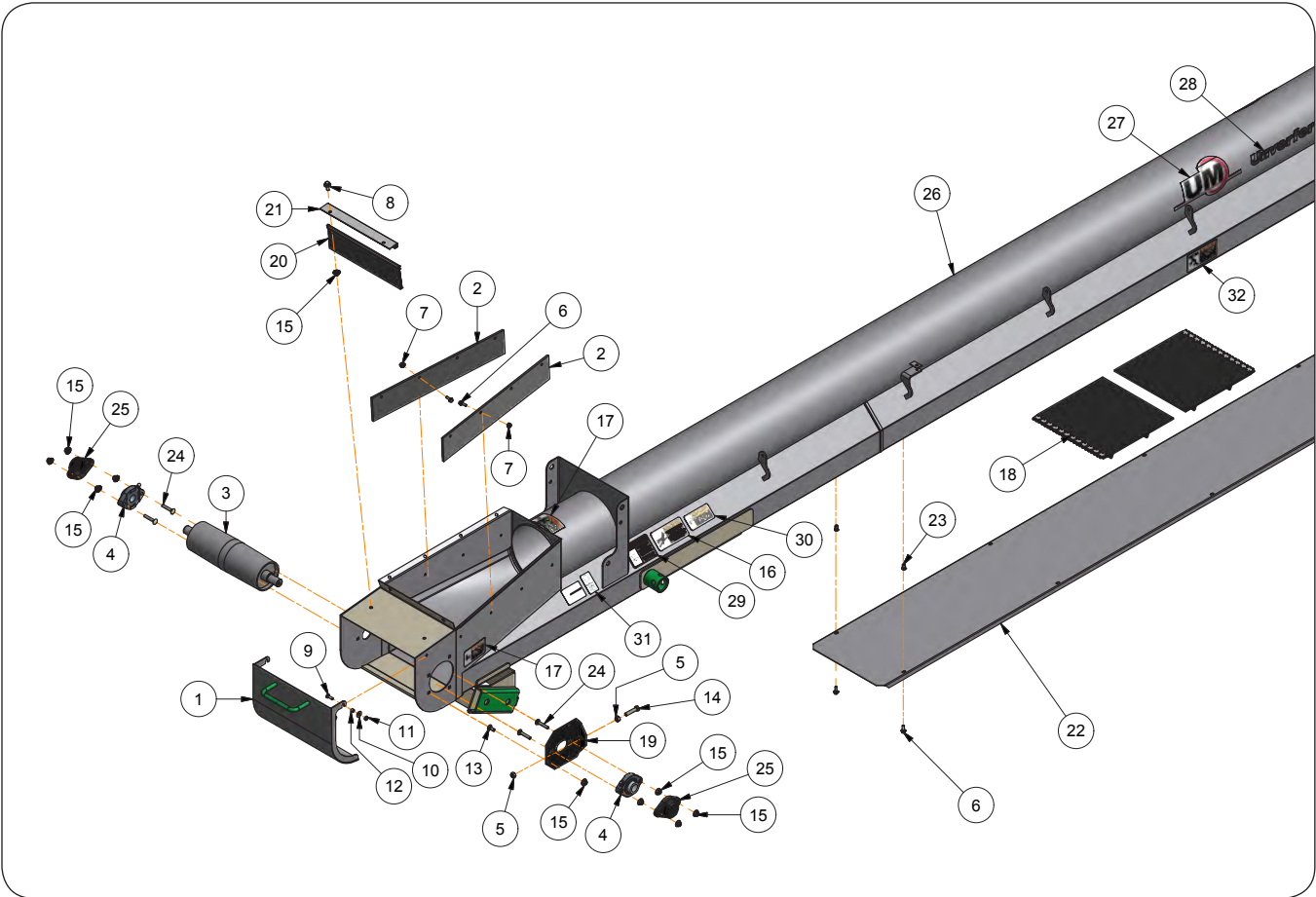


PORTABLE SEED CONVEYOR — Parts

Hopper Components

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	26161TS	Grate Weldment	1	
2	25393TS	Pivot Weldment	1	
3	25396	Pin Weldment 5/8" Dia.	1	
4	25395TS	Handle Weldment	1	
5	25433TS	Bent Tube	1	
6	24620TS	Strap	2	
7	25262	Brush Holder	1	
8	9390-055	Capscrew 3/8-16UNC x 1	1	Grade 5
9	9928	Locknut 3/8-16UNC	1	
10	91257	Large Flange Hex Nut 5/16-18UNC	14	Grade 5
11	9390-032	Capscrew 5/16-18UNC x 1 1/2	2	Grade 5
12	9807	Locknut 5/16-18UNC	2	
13	24550	Bushing	2	
14	9405-088	Flat Washer 1/2 USS	2	
15	9800	Locknut 1/2-13UNC	2	
16	9390-101	Capscrew 1/2-13UNC x 1 1/2	2	Grade 5
17	92928	Handle Grip	2	
18	901471	Hopper Vinyl	1	
19	26243	Belting	1	
20	901814	Nylon Brush	1	
21	25434TS	Shim Plate	2	
22	901044	Flange Screw 5/16-18UNC x 1	14	Grade 5

Idler End Components

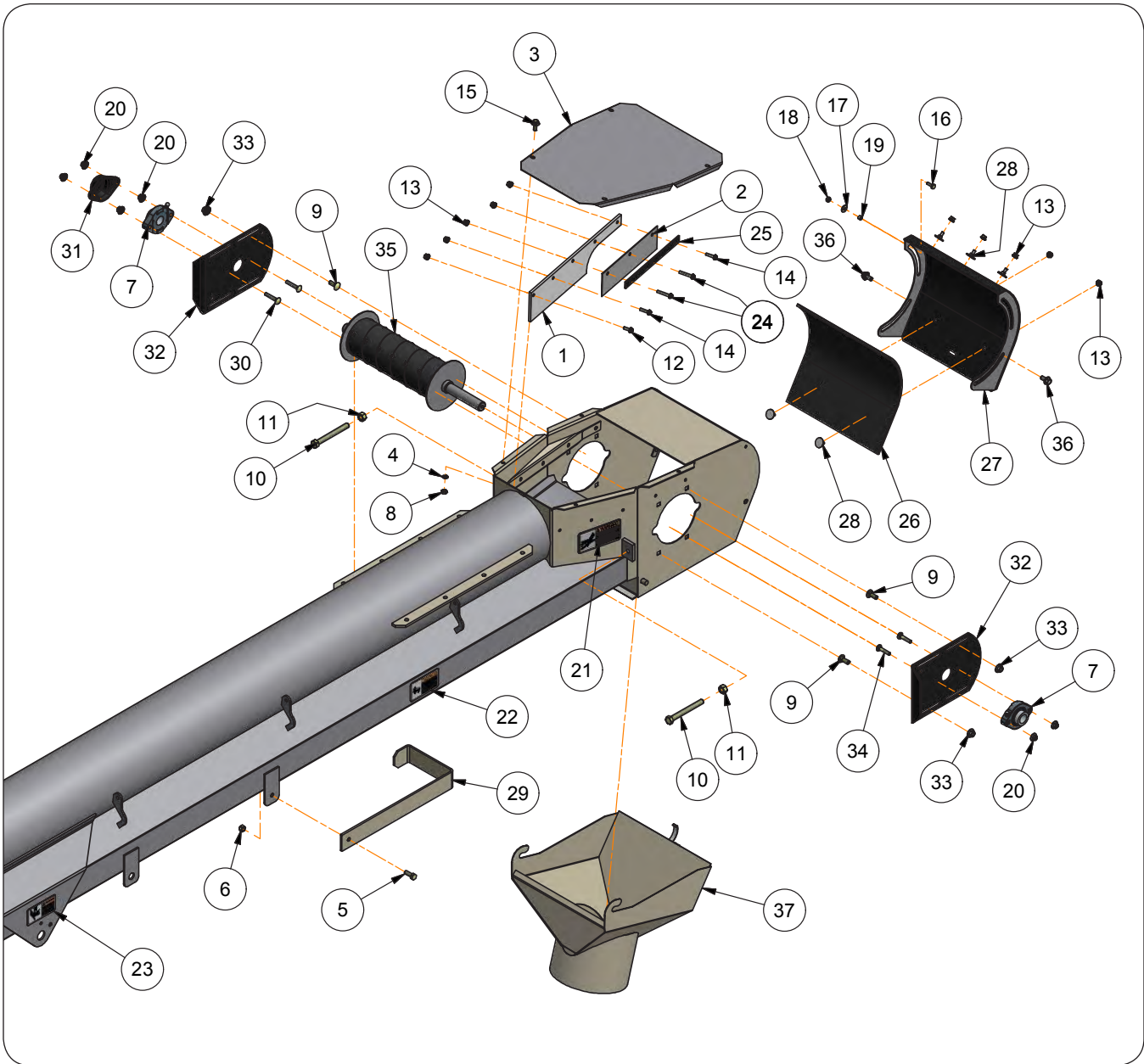


PORTABLE SEED CONVEYOR — Parts

Idler End Components

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	24451TS	Cleanout Door Weldment	1	
2	25258	Seal 3 1/2 x 20 3/16	2	
3	TA2-113926-0	Idler Pulley Weldment	1	
4	TA0-903088-0	Bearing w/Flange 1" ID	2	
5	9394-006	Hex Nut 3/8-16UNC	2	Grade 5
6	97420	Flange Screw 1/4-20UNC x 3/4	16	
7	97189	Hex Nut/Large Flange 1/4-20UNC	8	
8	91256	Screw/Large Flange 5/16-18UNC x 3/4	2	
9	9390-003	Capscrew 1/4-20UNC x 3/4	2	Grade 5
10	9405-064	Flat Washer 1/4 USS	2	
11	9936	Locknut 1/4-20UNC	2	
12	22018	Bushing 3/8" Dia.	2	
13	9388-024	Carriage Bolt 5/16-18UNC x 3/4	4	Grade 5
14	TA0-907104-0	Capscrew 3/8-16UNC x 1 3/4	1	Grade 5 - Full Threaded
15	91257	Flange Nut 5/16-18UNC	14	
16	95445	Decal, WARNING "High Pressure Fluid"	1	
17	TA1-906109-0	Decal, WARNING "Moving Parts"	3	
18	902777	Conveyor Belt 12" Wide	1	
19	23912TS	Adjustment Plate	1	
20	901814	Nylon Brush	1	
21	26308	Brush Holder	1	
22	27167TS	Bottom Shield	1	
23	902340	Rivet Nut	8	
24	9500341	Carriage Bolt 5/16-18UNC x 1 3/4	4	Grade 5
25	9500310	Cover 2 3/4 x 4 1/8	2	
26	2005365TS	Portable Conveyor 8" x 21' Weldment	1	
27	901607	UM Oval decal	2	
28	901705	Unverferth Logo	2	
29	901478	Decal, DANGER "Electrocution"	1	
30	97961	Decal, WARNING "Operator Manual"	1	
31	91605	Decal, FEMA	1	
32	98229	Decal, WARNING "Lower Equipment"	2	

Discharge End Components

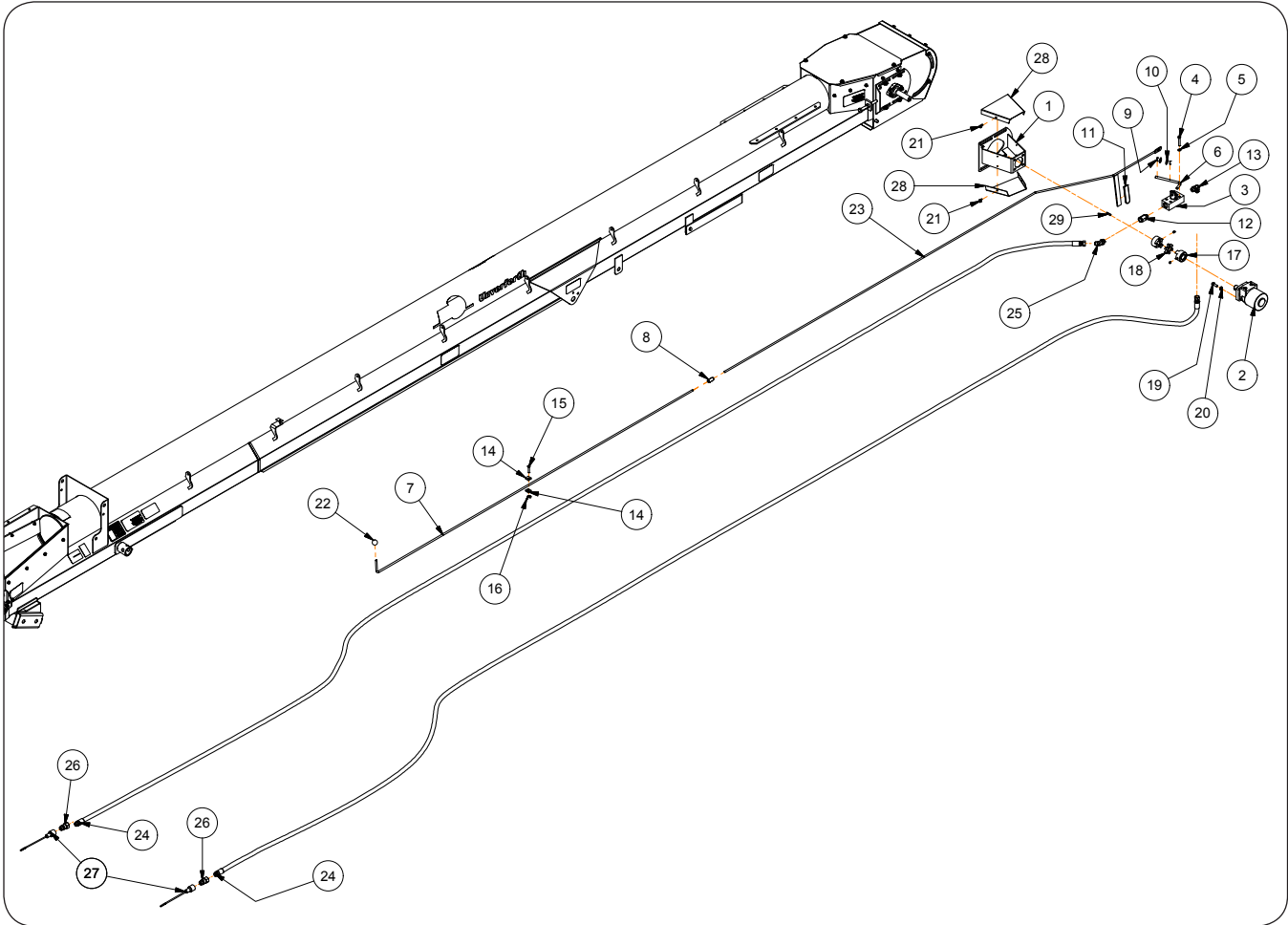


PORTABLE SEED CONVEYOR — Parts

Discharge End Components

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	25257	Poly Strip 3 1/2 x 17 3/16	2	
2	25256	Seal 2 3/4 x 10 1/2	2	
3	25239TS	Top Shield	1	
4	9404-019	Lock Washer 5/16	4	
5	9390-055	Capscrew 3/8-16UNC x 1	1	Grade 5
6	9928	Locknut 3/8-16UNC	1	
7	TA0-903088-0	Bearing w/Flange 1" ID	2	
8	9394-004	Hex Nut 5/16-18UNC	4	
9	9388-051	Carriage Bolt 3/8-16UNC x 1	8	
10	93400	Capscrew 1/2-13UNC x 4 1/2	2	Grade 5
11	9394-010	Hex Nut 1/2-13UNC	2	
12	97420	Flange Screw 1/4-20UNC x 3/4	2	
13	97189	Hex Nut/Large Flange 1/4-20UNC	15	
14	901101	Flange Screw 1/4-20UNC x 1	4	
15	91256	Screw/Large Flange 5/16-18UNC x 3/4	4	
16	9390-003	Capscrew 1/4-20UNC x 3/4	2	Grade 5
17	9405-064	Flat Washer 1/4 USS	2	
18	9936	Locknut 1/4-20UNC	2	
19	22018	Bushing 3/8" Dia.	2	
20	91257	Flange Nut 5/16-18UNC	6	
21	95445	Decal, WARNING "High Pressure Fluid"	1	
22	TA1-906109-0	Decal, WARNING "Moving Parts"	2	
23	95839	Decal, WARNING "Pinch Point"	2	
24	901831	Flange Screw 1/4-20UNC x 1 1/2	4	
25	26432B	Strip 3/4 x 10 1/4	2	
26	901724	Neoprene Sheet 12 1/2 x 13	1	
27	26223TS	Deflector Weldment	1	
28	902006	Elevator Bolt 1/4-20UNC x 3/4	5	
29	26238TS	Bracket 2 x 23 15/16	1	
30	9500341	Carriage Bolt 5/16-18UNC x 1 3/4	2	Grade 5
31	9500310	Cover 2 3/4 x 4 1/8	1	
32	2001018TS	Bearing Adjustment Plate	2	
33	91263	Nut/Large Flange 3/8-16UNC	8	
34	9388-027	Carriage Bolt 5/16-18UNC x 1 1/2	2	Grade 5
35	9500545	Drive Roller 4"	1	
36	93649	Flange Screw 3/8-16UNC x 3/4	2	
37	26284TS	Spout Weldment 8"	1	

Hydraulic Components



Hydraulic Components

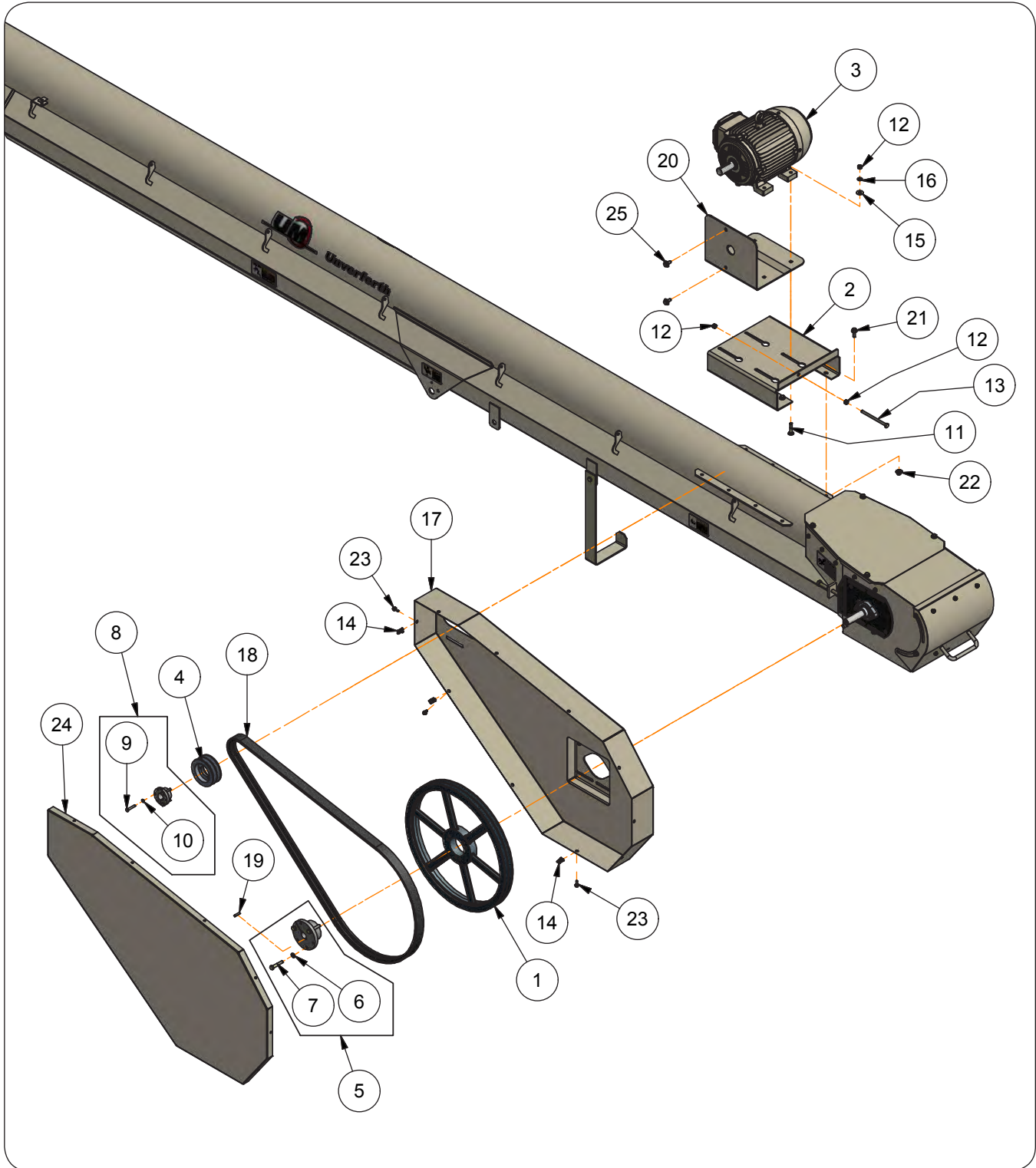
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2001020TS	Hydraulic Motor Mount Weldment	1	
2	9500516	Hydraulic Motor	1	
3	95488	Valve	1	
4	9390-034	Capscrew 5/16-18UNC x 2	4	Grade 5
5	9404-019	Lock Washer 5/16"	4	
6	23693	Handle	1	
7	23698	Control Rod	1	
8	23701	Coupler	1	
9	9392-056	Roll Pin 1/8" Dia. x 3/4	2	
10	9405-076	Flat Washer 3/8" USS	2	
11	900209	Vinyl Handle	1	
12	94909	Check Valve	1	
13	9863	90° Elbow	1	
14	24266	Friction Block	2	
15	9388-005	Carriage Bolt 1/4-20UNC x 1 1/2	1	Grade 5
16	901056	Wing Nut Nylon 1/4-20UNC	1	
17	901371	Jaw Coupler 1" Bore w/Set Screw	2	
	9399-070	Set Screw 5/16-18UNC x 5/16	-	
18	9500099	Coupling Spider	1	
19	9390-055	Capscrew 3/8-16UNC x 1	4	Grade 5
20	9404-021	Lock Washer 3/8	4	
21	97420	Flange Screw 1/4-20UNC x 3/4	4	Grade 5
22	TA0-914793-0	Knob	1	
23	2001053	Control Rod Weldment	1	
24	2001055	Hydraulic Hose 1/2 x 288	2	
25	93586	45° Elbow	1	
26	91383	Male Tip Coupling	2	
27	91511	Dust Cap	2	
28	2001051TS	Shield	2	
29	9001501	Keystock 1/4 x 1/4 x 1	1	

PORTABLE SEED CONVEYOR — Parts

Electrical Components (North America)

5 HP, 208-230/460 Volts AC, 60 HZ, 1-Phase Motor

5 HP, 208-230/460 Volts AC, 60 HZ, 3-Phase Motor



PORTABLE SEED CONVEYOR — Parts

Electrical Components (North America)

5 HP, 208-230/460 Volts AC, 60 HZ, 1-Phase Motor

5 HP, 208-230/460 Volts AC, 60 HZ, 3-Phase Motor

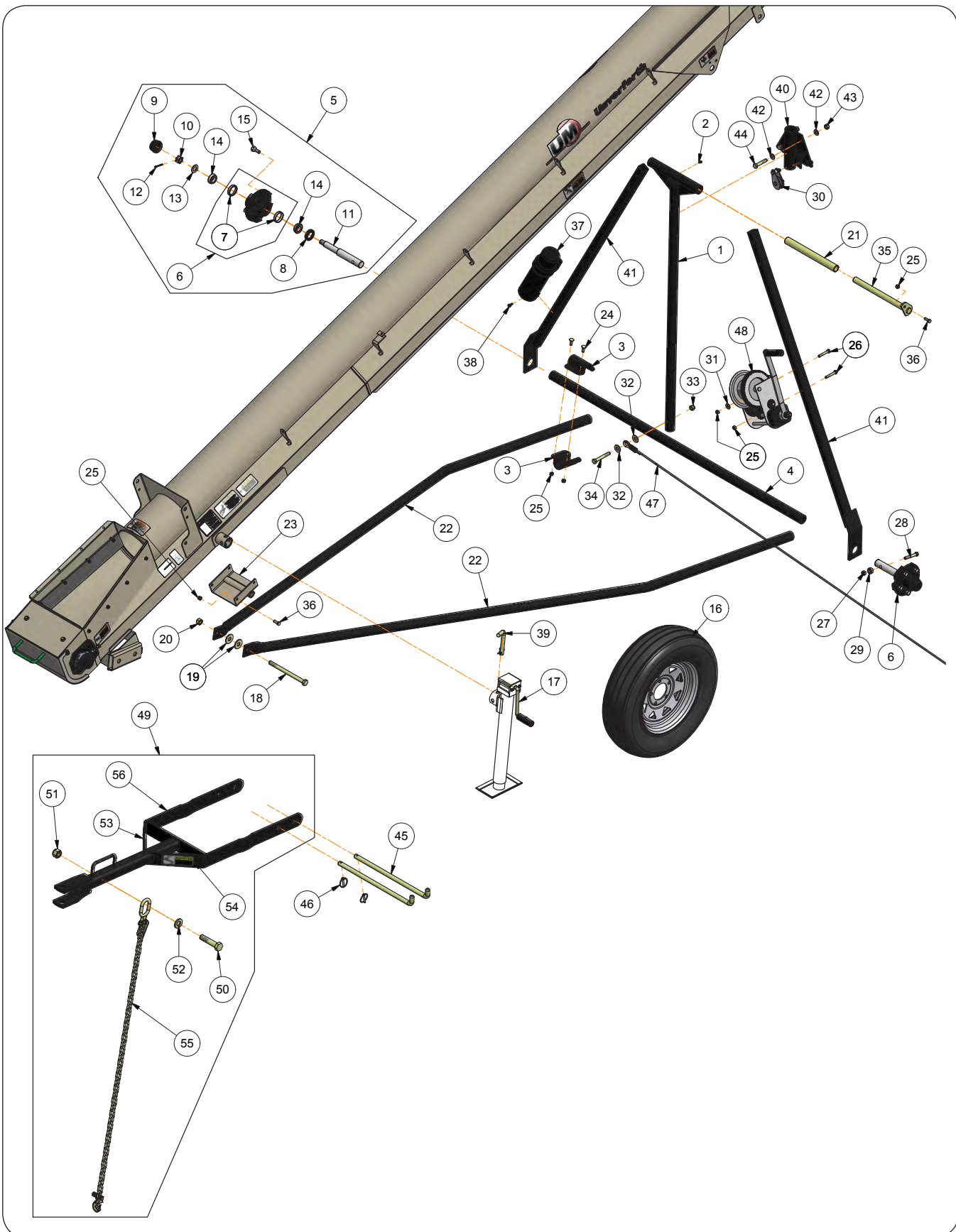
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	902719	Sheave 20.35" Dia.	1	
2	2001072TS	Motor Mount	1	
3	9500544	Electric Motor 5HP 1-Phase	1	SHOWN
	902047	Electric Motor 5HP 3-Phase		
4	9500546	Sheave 4.35" Dia.	1	
5	9500556	Tapered Bushing 1" Bore	1	
6	9404-021	Lock Washer 3/8	3	
7	9390-059	Capscrew 3/8-16UNC x 2	3	Grade 5
8	9500555	Tapered Bushing 1 1/8" Bore	1	
9	9390-007	Capscrew 1/4-20UNC x 1 1/2	3	Grade 5
10	9404-017	Lock Washer 1/4	3	
11	9388-054	Carriage Bolt 3/8-16UNC x 1 3/4	4	Grade 5
12	9394-006	Hex Nut 3/8-16UNC	6	Grade 5
13	98952	Capscrew 3/8-16UNC x 5	1	Grade 5 - Full Threaded
14	902628	U-Nut 1/4"	10	
15	9405-076	Flat Washer 3/8 USS	4	
16	9404-021	Lock Washer 3/8	4	
17	2001073TS	Guard Weldment	1	
18	902924	Double V-Belt	1	
19	9001501	Keystock 1/4 x 1/4 x 1	1	
20	2001177TS	Motor Mount Weldment	1	
21	91262	Flange Screw 3/8-16UNC x 1	6	Grade 5
22	91263	Nut/Large Flange 3/8-16UNC	6	
23	97420	Flange Screw 1/4-20UNC x 3/4	10	
24	2001075TS	Guard Cover Weldment	1	
25	95585	Capscrew/Large Flange 3/8-16UNC x 3/4	2	Grade 5

PORTABLE SEED CONVEYOR — Parts**Electrical Components (International)****5.5HP, 400/690 Volts AC, 50HZ, 3-Phase Motor**

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	902719	Sheave 20.35" Dia.	1	
2	2001072TS	Motor Mount	1	
3	2005475	Electric Motor 5.5HP 3-Phase	1	
4	9501558	Sheave 5.15" Dia.	1	
5	9500556	Tapered Bushing 1" Bore	1	
6	9404-021	Lock Washer 3/8	3	
7	9390-059	Capscrew 3/8-16UNC x 2	3	Grade 5
8	9501559	Tapered Bushing 28mm Bore	1	
9	9390-007	Capscrew 1/4-20UNC x 1 1/2	3	Grade 5
10	9404-017	Lock Washer 1/4	3	
11	9388-054	Carriage Bolt 3/8-16UNC x 1 3/4	4	Grade 5
12	9394-006	Hex Nut 3/8-16UNC	6	Grade 5
13	98952	Capscrew 3/8-16UNC x 5	1	Grade 5 - Full Threaded
14	902628	U-Nut 1/4"	10	
15	9405-076	Flat Washer 3/8 USS	4	
16	9404-021	Lock Washer 3/8	4	
17	2001073TS	Guard Weldment	1	
18	902924	Double V-Belt	1	
19	9001501	Keystock 1/4 x 1/4 x 1	1	
20	2005473TS	Motor Mount Weldment	1	
21	91262	Flange Screw 3/8-16UNC x 1	6	Grade 5
22	91263	Nut/Large Flange 3/8-16UNC	6	
23	97420	Flange Screw 1/4-20UNC x 3/4	10	
24	2001075TS	Guard Cover Weldment	1	
25	95585	Capscrew/Large Flange 3/8-16UNC x 3/4	2	Grade 5

PORTABLE SEED CONVEYOR — Parts

Undercarriage Components



PORTABLE SEED CONVEYOR — Parts

Undercarriage Components

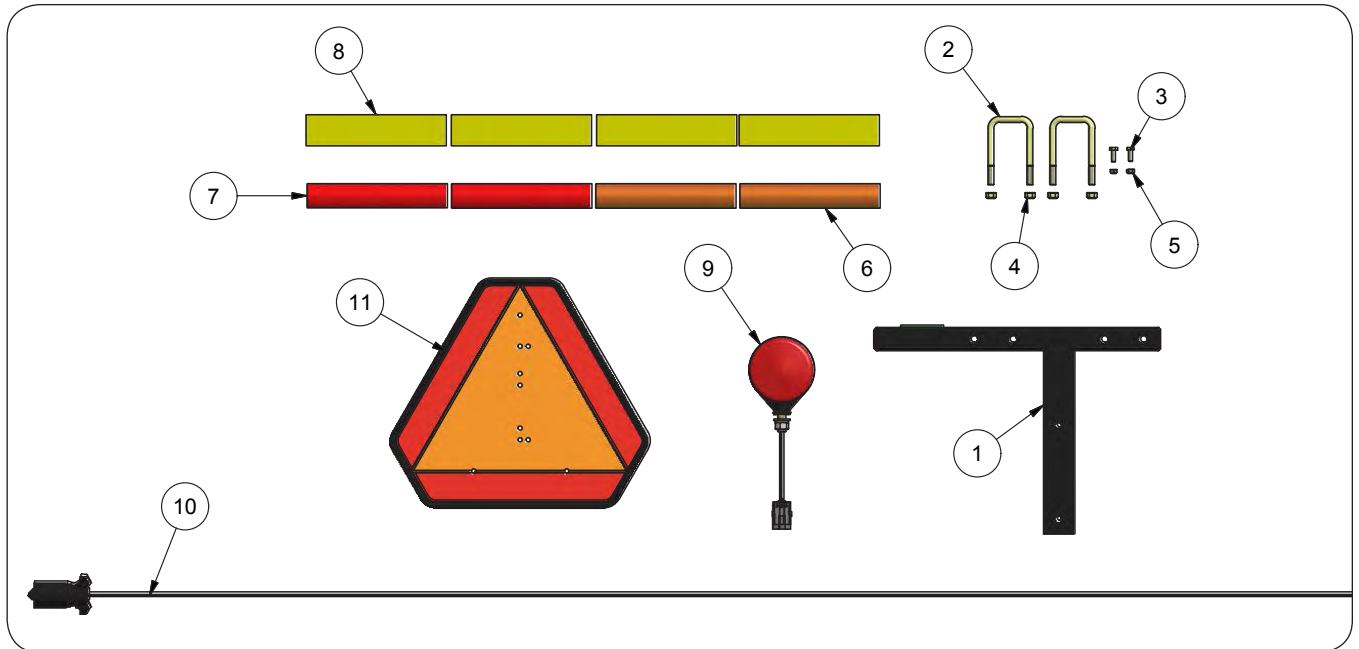
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	25657B	Lift Weldment	1	
2	91160	Zerk 1/4-28 STT	1	
3	TA1-001305-1	Clamp Plate	4	
4	TA1-113878-0	Axle	1	
5	TA2-913793-1	5 Bolt Hub & Spindle Assembly	2	
6	TA0-913793-2	5 Bolt Hub w/Bearing Cups	1	
7	92522	Bearing Cup #L44610	2	
8	92525	Seal w/Zerk	1	
9	92521	Hub Cap	1	
10	9393-016	Slotted Nut, 3/4-16UNF	1	Grade 2
11	TA0-913793-9	Spindle 1 1/4" Dia. x 10	1	
12	9391-035	Cotter Pin	1	
13	91050	Flat Washer, 1.469	1	
14	92523	Bearing Cone	1	
15	91829	Wheel Bolt, 1/2-20UNF x 1 5/8	5	Grade 5
16	TA0-913792-0	Tire ST175/80D13 and Wheel	2	
17	902621	Ram Jack Sidewind 5000#	1	
18	9390-441	Capscrew 5/8-11UNC x 8 1/2	1	Grade 5
19	9405-100	Flat Washer, 5/8	2	
20	9801	Locknut, 5/8-11UNC	1	Grade 5
21	25659	Bushing	1	
22	25811B	Side Rail	2	
23	2001198TS	Lower Frame Mount Weldment	1	
24	9388-051	Carriage Bolt, 3/8-16 x 1	8	Grade 5
25	9928	Locknut, 3/8-16UNC	12	Grade 5
26	9390-060	Capscrew, 3/8-16UNC x 2 1/4	2	Grade 5
27	9799	Locknut, 7/16-14UNC	2	Grade 5
28	9390-085	Capscrew, 7/16-14UNC x 2 3/4	2	Grade 5
29	TA1-110185-0	Bushing	2	
30	TA0-923512-1	Pulley	1	
31	9405-076	Flat Washer, 3/8	1	
32	9405-088	Flat Washer, 1/2	2	
33	9398-016	Elastic Stop Nut, 1/2-13	1	Grade 5
34	9390-109	Capscrew, 1/2-13UNC x 3 1/2	1	Grade 5
35	25436	Pin Weldment 1" Dia.	1	
36	9390-055	Capscrew 3/8-16UNC x 1	1	Grade 5
37	900552	Manual Holder	1	

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PORTABLE SEED CONVEYOR — Parts**Undercarriage Components (continued)**

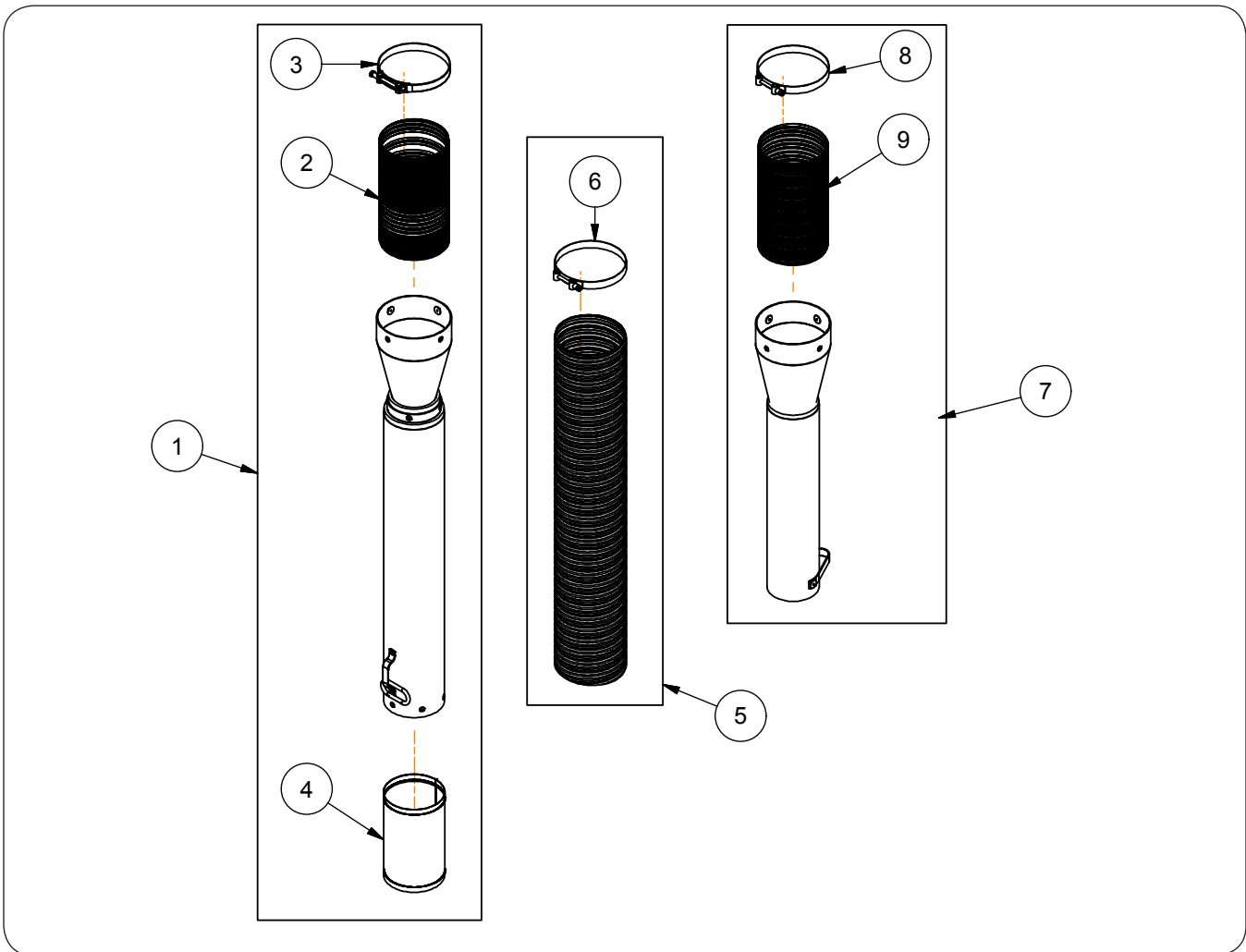
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
38	9473	Self Drilling Screw, 1/4-14 x 3/4	2	
39	84979	Bent Pin 5/8" Dia. x 4	1	
40	2001233B	Lift Frame Center Weldment	1	
41	2001235B	Leg Weldment	2	
42	9405-086	Flat Washer 1/2" SAE	8	
43	9800	Locknut 1/2-13UNC	4	
44	9390-105	Capscrew 1/2-13UNC x 2 1/2	4	Grade 5
45	2001273	Hitch Pin 3/4" Dia.	2	
46	91058	Klik Pin 1/4" Dia.	2	
47	2001278	Winch Cable 1/4" Dia. x 87	1	
48	902624	Winch 2500# w/Handle	1	
49	2001320B	Conveyor Hitch Assembly	1	
50	9390-172	Capscrew 7/8-9UNC x 4	1	Grade 5
51	9398-024	Elastic Stop Nut 7/8-9UNC	1	Grade 5
52	9405-112	Flat Washer 7/8" USS	1	
53	94094	Decal, WARNING "Tongue Raise or Drop..."	1	
54	97575	Decal, CAUTION "Transport Chain..."	1	
55	94098	Transport Chain 10,100#	1	
56	2001261B	Conveyor Hitch Weldment	1	

Optional Light & Marking Kit #25775



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	25775	Optional Light & Marking Kit	-	
1	2001413B	SMV Mount Weldment	1	
2	900617	U-Bolt 3/8-16UNC	2	
3	9390-003	Capscrew 1/4-20UNC x 3/4	2	
4	9928	Locknut 3/8-16UNC	4	
5	9936	Locknut 1/4-20UNC	2	
6	9003125	Fluorescent Stripe =Orange=	2	
7	9003126	Reflector =Red=	2	
8	9003127	Reflector =Amber=	4	
9	9003877	Light-Round =Red=	1	
10	901706	Wire Harness 263" Long	1	
11	TA510514	SMV Emblem	1	

Optional Spout Kits



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	29782	Telescopic Downspout Kit 8" x 6'-10'	-	
2	25752	Flexible Spout 8"	1	
3	901485	Hose Clamp	1	
4	9500173	Vinyl Sock	1	
5	2001517	Flexible Spout Kit	-	
6	901485	Hose Clamp	1	
7	2001518	Telescopic Downspout Kit 8" x 4'-6'	-	
8	901485	Hose Clamp	1	
9	25752	Flexible Spout 8"	1	

Notes



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