



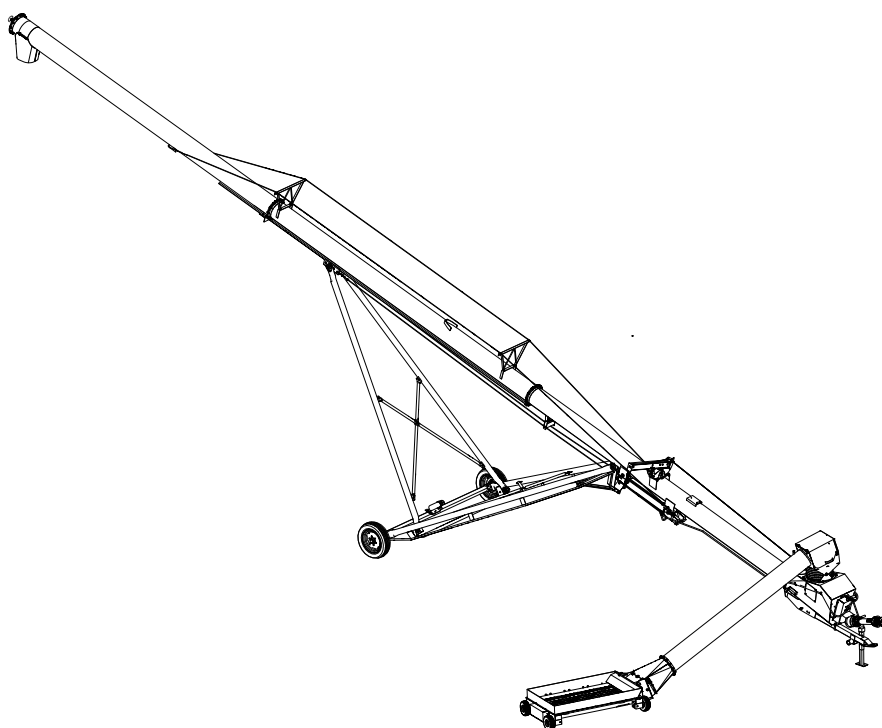
Swing-Away Grain Auger

MKX 13 Assembly Manual

This manual applies to:

MKX 13-64, MKX 13-74

Original Instructions



Read this manual before using product. Failure to follow instructions and safety precautions can result in serious injury, death, or property damage. Keep manual for future reference.

Part Number: 30796 R7

Revised: January 2020

New in this Manual

The following changes have been made in this revision of the manual:

Description	Section
New spout design	Section 4.11 – Install the Spout on page 33
Hubs pre-installed on axle	Section 4.14 – Assemble the Frame on page 39
Added 15' swing tube assembly	Section 4.19 – Install Low Profile Intake Hopper on page 48
Transition pre-installed to swing tube	Section 4.19 – Install Low Profile Intake Hopper on page 48
Updated swing tube assembly	Section 4.19 – Install Low Profile Intake Hopper on page 48
New lift arm design	Section 4.21 – Install the Hopper Lift Arm and Winch on page 52
Modified 64' swing brackets	Section 4.21 – Install the Hopper Lift Arm and Winch on page 52
Added cable clamp instructions	

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1. Introduction

This manual describes how to assemble a Westfield Swing-Away Grain Auger.

Before assembling, please read this manual. Familiarize yourself with the process and the necessary precautions for efficient and safe assembly.

Everyone present at the assembly site is required to be familiar with all safety precautions.

Keep this manual available for frequent reference and review it with new personnel. Call your local distributor or dealer if you need assistance or additional information.

2. Safety

2.1. Safety Alert Symbol and Signal Words



This safety alert symbol indicates important safety messages in this manual. When you see this symbol, be alert to the possibility of injury or death, carefully read the message that follows, and inform others.

Signal Words: Note the use of the signal words **DANGER**, **WARNING**, **CAUTION**, and **NOTICE** with the safety messages. The appropriate signal word for each message has been selected using the definitions below as a guideline.



Indicates an imminently hazardous situation that, if not avoided, will result in serious injury or death.



Indicates a hazardous situation that, if not avoided, could result in serious injury or death.



Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.



Indicates a potentially hazardous situation that, if not avoided, may result in property damage.

2.2. General Product Safety

It is the owner, operator, and maintenance personnel's responsibility to read and understand all safety instructions, safety decals, and manuals and follow them when operating or maintaining the equipment.

- Owners must give instructions and review the information initially and annually with all personnel before allowing them in the work area. Untrained users/operators expose themselves and bystanders to possible serious injury or death.
- Use for intended purposes only.
- Do not modify the auger in any way without written permission from the manufacturer. Unauthorized modification may impair the function and/or safety. Any unauthorized modification will void the warranty.
- Follow a health and safety program for your worksite. Contact your local occupational health and safety organization for information.



2.3. Rotating Flighting Safety

DANGER

- KEEP AWAY from rotating flighting.
- DO NOT remove or modify flighting guards, doors, or covers. Keep in good working order. Have replaced if damaged.
- DO NOT operate the auger without all guards, doors, and covers in place.
- NEVER touch the flighting. Use a stick or other tool to remove an obstruction or clean out.
- Shut off and lock out power to adjust, service, or clean.



2.4. Rotating Parts Safety

WARNING

- Keep body, hair, and clothing away from rotating pulleys, belts, chains, and sprockets.
- Do not operate with any guard removed or modified. Keep guards in good working order.
- Shut off and remove key or lock out power source before inspecting or servicing machine.



2.5. Hand Winch Safety

WARNING

When Equipped:

- Inspect lift cable before using. Replace if frayed or damaged. Make sure lift cable is seated properly in cable sheaves and cable clamps are secure.
- Tighten brake lock by turning winch handle clockwise at least two clicks after lowering the auger.
- Raise the swing hopper fully before towing.
- Do not lubricate winch brake discs.

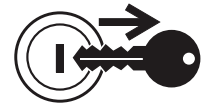
2.6. Hydraulic Winch Safety

WARNING When Equipped:

- Keep away from rotating cable drum and winch cable. Do not touch or grab cable while winch is being operated or use hands to guide the cable. Failure to heed could result in serious injury.
- Inspect cable and cable clamps before installing and using hydraulic winch. Replace cable if frayed or damaged. Tighten cable clamps if necessary.
- Do not continue to supply power to hydraulic winch after the swing hopper is fully lifted.
- Do not disconnect hydraulic quick couplers when lines are pressurized.
- Make sure lift cable is seated in cable pulley.
- Always keep a minimum of 3 cable wraps on the cable drum.

2.7. Drives and Lockout Safety

Inspect the power source(s) before using and know how to shut down in an emergency. Whenever you service or adjust your equipment, make sure you shut down the power source and unplug or remove the key (as applicable) to prevent inadvertent start-up and hazardous energy release. Know the procedure(s) that applies to your equipment from the following power source(s). Ensure that all personnel are clear before turning on power to equipment.



2.7.1 PTO Driveline Safety

WARNING Drive

- Keep body, hair, and clothing away from rotating PTO driveline.
- Make certain the driveline shields telescope and rotate freely on driveline before attaching.
- Make certain the driveline is securely attached at both ends.
- Do not operate auger unless all driveline, tractor, and equipment shields are in place and in good working order.
- Do not exceed the specified operating speed.
- Keep universal joint angles small and equal. Do not exceed maximum recommended length for PTO driveline.
- Engage tractor park brake and/or chock wheels.



Lockout

- Position all controls in neutral, shut off tractor's engine, and remove key from tractor.
- If removing key is impossible, remove PTO driveline from tractor.

2.7.2 Hydraulic Power Safety



WARNING Power Source

- Refer to the rules and regulations applicable to the power source operating your hydraulic drive.
- Do not connect or disconnect hydraulic lines while system is under pressure.
- Keep all hydraulic lines away from moving parts and pinch points.
- Escaping hydraulic fluid under pressure will cause serious injury if it penetrates the skin surface (serious infection or toxic reaction can develop). See a doctor immediately if injured.
- Use metal or wood as a backstop when searching for hydraulic leaks and wear proper hand and eye protection.
- Check all hydraulic components are tight and in good condition. Replace any worn, cut, abraded, flattened, or crimped hoses.
- Clean the connections before connecting to equipment.
- Do not attempt any makeshift repairs to the hydraulic fittings or hoses with tape, clamps, or adhesive. The hydraulic system operates under extremely high pressure; such repairs will fail suddenly and create a hazardous and unsafe condition.

Lockout

- Always place all hydraulic controls in neutral and relieve system pressure before disconnecting or working on hydraulic system.



2.8. Tire Safety

WARNING

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion that may result in serious injury or death.

- DO NOT attempt to mount a tire unless you have the proper equipment and experience to do the job.
- Have a qualified tire dealer or repair service perform required tire maintenance.
- When replacing worn tires, make sure they meet the original tire specifications. Never undersize the replacement tire.
- DO NOT weld to the tire rim with the tire mounted on the rim. This action may cause an explosion which could result in serious injury or death.
- Inflate tires to the manufacturer's recommended pressure.
- Tires should not be operated at speeds higher than their rated speed.
- Keep wheel lug nuts tightened to manufacturer's recommendations.
- Never reinflate a tire that has been run flat or seriously under-inflated without removing the tire from the wheel. Have the tire and wheel closely inspected for damage before remounting.

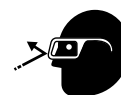


2.9. Personal Protective Equipment

The following Personal Protective Equipment (PPE) should be worn when operating or maintaining the equipment.

Safety Glasses

- Wear safety glasses at all times to protect eyes from debris.



Coveralls

- Wear coveralls to protect skin.



Hard Hat

- Wear a hard hat to help protect your head.



Steel-Toe Boots

- Wear steel-toe boots to protect feet from falling debris.



Work Gloves

- Wear work gloves to protect your hands from sharp and rough edges.



Dust Mask

- Wear a dust mask to prevent breathing potentially harmful dust.



Hearing Protection

- Wear ear protection to prevent hearing damage.



2.10. Safety Equipment

The following safety equipment should be kept on site:

Fire Extinguisher

- Provide a fire extinguisher for use in case of an accident. Store in a highly visible and accessible place.



First-Aid Kit

- Have a properly-stocked first-aid kit available for use should the need arise, and know how to use it.



2.11. Safety Decals

- Keep safety decals clean and legible at all times.
- Replace safety decals that are missing or have become illegible. See decal location figures that follow.
- Replaced parts must display the same decal(s) as the original part.
- Replacement safety decals are available **free of charge** from your distributor, dealer, or factory as applicable.

2.11.1 Decal Installation/Replacement

1. Decal area must be clean and dry, with a temperature above 50°F (10°C).
2. Decide on the exact position before you remove the backing paper.
3. Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.
4. Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.
5. Small air pockets can be pierced with a pin and smoothed out using the sign backing paper.

2.11.2 Safety Decal Locations and Details

Replicas of the safety decals that are attached to the auger and their messages are shown in the figure(s) that follow. Safe operation and use of the auger requires that you familiarize yourself with the various safety decals and the areas or particular functions that the decals apply to, as well as the safety precautions that must be taken to avoid serious injury, death, or damage.

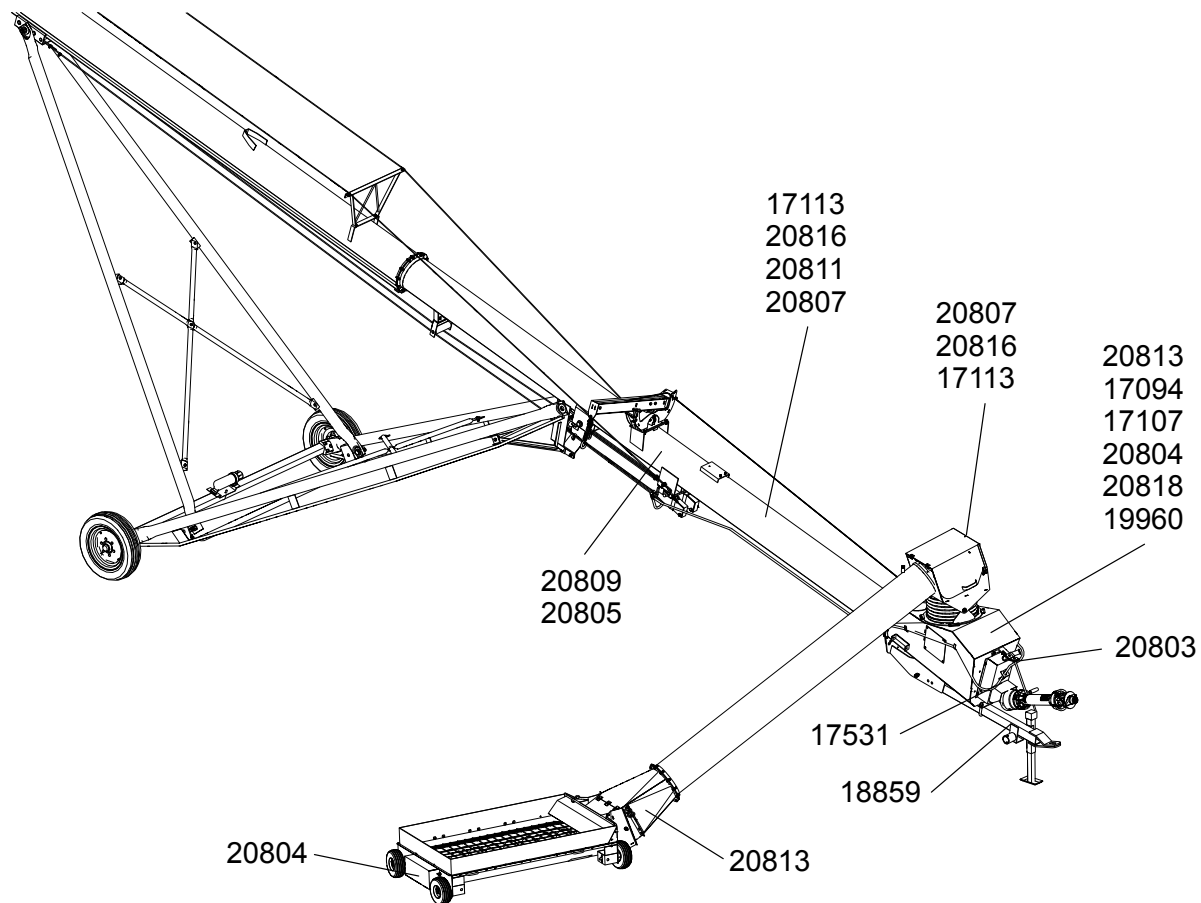


Table 1. Safety Decals


Part Number	Description
20813	<div data-bbox="456 275 1166 1285">  <p>ROTATING FLIGHTING HAZARD</p> <p>To prevent death or serious injury:</p> <ul style="list-style-type: none"> • KEEP AWAY from rotating auger flighting. • DO NOT remove or modify auger flighting guards, doors, or covers. Keep in good working order. Have replaced if damaged. • DO NOT operate the auger without all guards, doors, and covers in place. • NEVER touch the auger flighting. Use a stick or other tool to remove an obstruction or clean out. • Shut off and lock out power to adjust, service, or clean. </div>

Table 1 Safety Decals (continued)


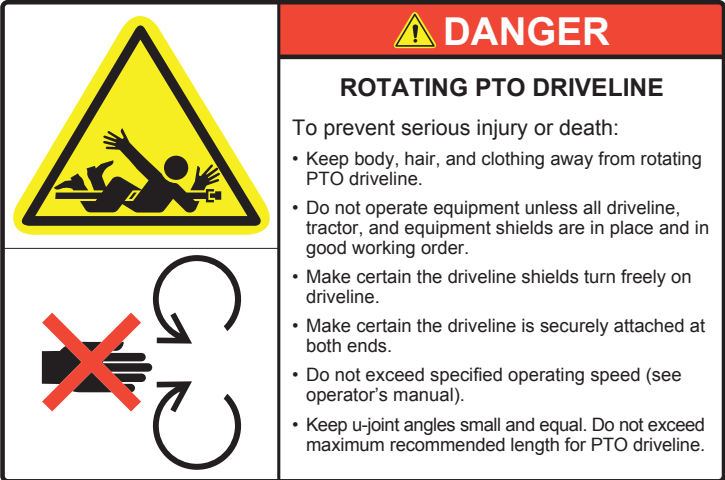
Part Number	Description
20816	<div data-bbox="456 275 1166 1102">  <p>DANGER</p> <p>ELECTROCUTION HAZARD</p> <p>To prevent death or serious injury:</p> <ul style="list-style-type: none"> • When operating or moving, keep equipment away from overhead power lines and devices. • Fully lower equipment before moving. <p>This equipment is not insulated.</p> <p>Electrocution can occur without direct contact.</p> </div>
20818	<div data-bbox="451 1150 1172 1627">  <p>DANGER</p> <p>ROTATING PTO DRIVELINE</p> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> • Keep body, hair, and clothing away from rotating PTO driveline. • Do not operate equipment unless all driveline, tractor, and equipment shields are in place and in good working order. • Make certain the driveline shields turn freely on driveline. • Make certain the driveline is securely attached at both ends. • Do not exceed specified operating speed (see operator's manual). • Keep u-joint angles small and equal. Do not exceed maximum recommended length for PTO driveline. </div>

Table 1 Safety Decals (continued)


Part Number	Description
17094	<div> DANGER</div> <div>ROTATING FLIGHTING INSIDE To prevent serious injury or death, do not operate auger unless swing-hopper is securely attached to boot.</div>

Table 1 Safety Decals (continued)




Part Number	Description
20807	<div data-bbox="456 275 1166 1562"> <div data-bbox="456 275 1166 365">  WARNING </div> <div data-bbox="456 365 1166 680"> <div data-bbox="456 365 812 680">  </div> <div data-bbox="812 365 1166 680">  </div> </div> <div data-bbox="456 680 1166 1562"> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> • Read and understand the manual before assembling, operating, or maintaining the equipment. • Only trained personnel may assemble, operate, or maintain the equipment. • Children and untrained personnel must be kept outside of the work area. • Do not modify the equipment. Keep in good working order. • If the manual, guards, or decals are missing or damaged, contact factory or representative for free replacements. • Lock out power before performing maintenance. • To prevent equipment collapse or upending, support equipment tube while disassembling certain components. • Electric motors must be grounded. Disconnect power before resetting overloads. </div> </div>

Table 1 Safety Decals (continued)


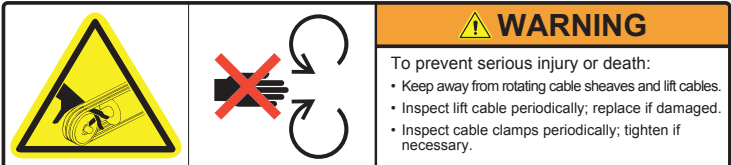
Part Number	Description
20811	<div data-bbox="456 275 1167 1157">  <p>WARNING</p> <p>UPENDING HAZARD</p> <p>To prevent death or serious injury:</p> <ul style="list-style-type: none"> • Anchor intake end and/or support discharge end to prevent upending. • Intake end must always have downward weight. Do not release until attached to tow bar or resting on ground. • Do not raise intake end above tow bar height. • Empty tube and fully lower before moving. </div>
20809	<div data-bbox="448 1203 1175 1367">  <p>WARNING</p> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> • Keep away from rotating cable sheaves and lift cables. • Inspect lift cable periodically; replace if damaged. • Inspect cable clamps periodically; tighten if necessary. </div>

Table 1 Safety Decals (continued)


Part Number	Description
20805	<div data-bbox="456 275 1166 1079">  <p>WARNING</p> <p>HIGH PRESSURE FLUID HAZARD</p> <p>Hydraulic fluid can cause serious injury if it penetrates the skin. If it does, see a doctor immediately.</p> <ul style="list-style-type: none"> • Relieve system pressure before repairing, adjusting or disconnecting. • Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands. </div>

Table 1 Safety Decals (continued)




Part Number	Description
20804	<div data-bbox="456 275 1166 1108">  <p>WARNING</p> <p>ENTANGLEMENT HAZARD</p> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> • Keep body, hair, and clothing away from rotating pulleys, belts, chains, and sprockets. • Do not operate with any guard removed or modified. Keep guards in good working order. • Shut off and remove key or lock out power source before inspecting or servicing machine. </div>
20803 (behind guard)	<div data-bbox="456 1157 1003 1470">  <p>WARNING</p> <p>MISSING GUARD HAZARD</p> <p>To prevent serious injury or death, shut off power and reattach guard before operating machine.</p> </div>
17113	<div data-bbox="456 1524 1003 1803">  <p>WARNING</p> <p>TRANSPORT HAZARD</p> <p>To prevent serious injury or death:</p> <ul style="list-style-type: none"> • Securely attach equipment to vehicle with correct pin and safety chains. • Use a tow vehicle to move equipment. </div>

Table 1 Safety Decals (continued)



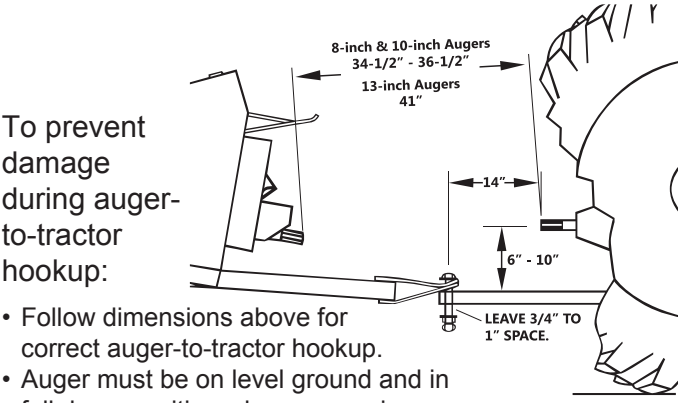

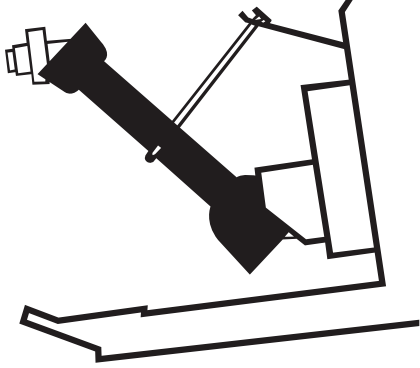
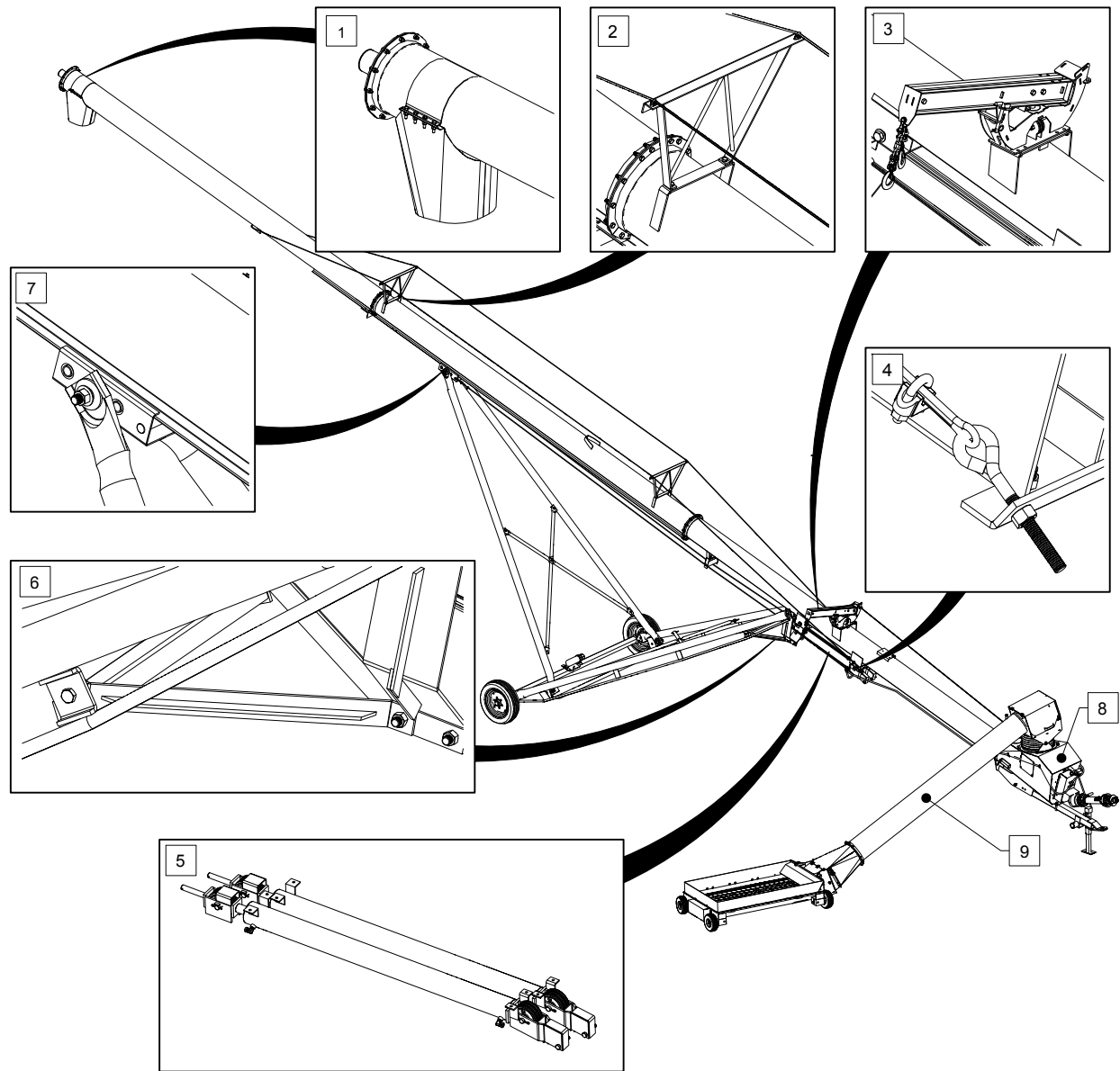
Part Number	Description
17107	<div data-bbox="456 275 1003 562">  <p data-bbox="480 373 963 520">To prevent personal injury or damage to equipment, close valve in lift cylinder hydraulic line after raising equipment into position.</p> </div>
19960	<div data-bbox="456 617 1166 1039">  <p data-bbox="488 737 1125 873">To prevent damage, wheels must be free to move when raising or lowering equipment.</p> <p data-bbox="488 898 1125 982">When equipment is positioned, chock all wheels.</p> </div>

Table 1 Safety Decals (continued)

Part Number	Description
17531	<div data-bbox="456 275 1170 884"> <p style="text-align: center;">NOTICE</p>  <p>To prevent damage during auger-to-tractor hookup:</p> <ul style="list-style-type: none"> • Follow dimensions above for correct auger-to-tractor hookup. • Auger must be on level ground and in full down position when measuring. • Adjust drawbar as needed. <p>See operation manual for complete details. </p> </div>
18859	<div data-bbox="456 932 906 1877"> <p style="text-align: center;">NOTICE</p>  <p>Disconnect PTO driveline from tractor before moving equipment.</p> <p>If attached, driveline will bottom out, severely damaging the CV u-joint and lower flight shaft.</p> <p>See manual for maintenance.</p> </div>

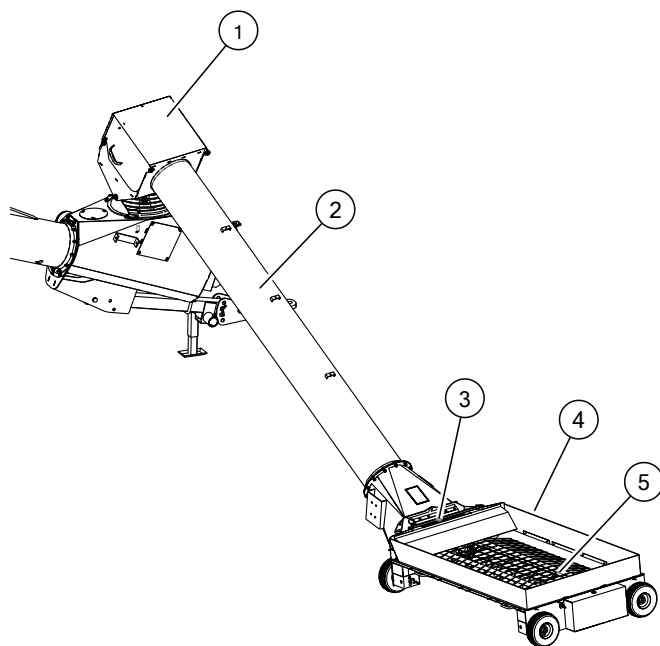
3. Features

This section covers the main features of the auger.



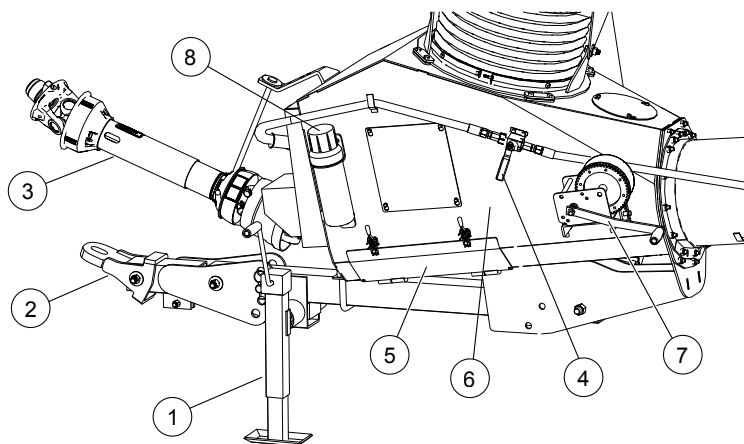
1	Discharge Spout	6	Stabilizer Brace
2	Truss Tower	7	Track
3	Lift Arm	8	Boot
4	Cable Adjustment	9	Swing
5	Hydraulic Cylinders		

Swing Features



1	Spout Head
2	Swing Arm
3	Maintenance Hatch
4	Hopper
5	Flights and Flight Guarding

Grain Transfer Boot Features



1	Hitch Jack
2	Hitch
3	PTO Driveline
4	Ball Valve
5	Clean-Out Hatch
6	Grain Transfer Boot
7	Manual Winch (Hopper)
8	Manual Holder

4. Assembly



Before continuing, ensure you have completely read and understood this manual's Safety section, in addition to the safety information in the section(s) below.

4.1. Assembly Safety

WARNING

- Do not take chances with safety. The components can be large, heavy, and hard to handle. Always use the proper tools, rated lifting equipment, and lifting points for the job.
- Carry out assembly in a large open area with a level surface.
- Always have two or more people assembling the auger.
- Make sure you have sufficient lighting for the work area.
- Tighten all fasteners according to their specifications. Do not replace or substitute bolts, nuts, or other hardware that is of lesser quality than the hardware supplied by the manufacturer.
- Stay away from overhead power lines and other obstructions during assembly. Contact with power lines can cause electrocution.
- Do not work in high winds.

4.2. Check Shipment

Unload the auger parts at the assembly site and compare the packing slip to the shipment. Ensure that all items have arrived and that none are damaged.

Report missing or damaged parts immediately to ensure that proper credit is received from Westfield or your distributor/dealer, and to ensure that any missing parts can be shipped quickly to avoid holding up the assembly process.

Important

Do not assemble or install damaged components.

4.3. Before You Begin

Before you assemble the auger:

- Familiarize yourself with all the sub-assemblies, components, and hardware that make up the equipment.
- Have all parts and components on hand, and arrange them for easy access.
- Separate the hardware (bolts, nuts, etc.) and lay them out into groups for easier identification during assembly.
- If assembling inside, confirm the ceiling and door width/height provide enough clearance when installing the undercarriage and to remove the auger from the building.
- Ensure there is adequate space to remove the assembled auger from the assembly area.

4.4. Brand and Model Decal Placement

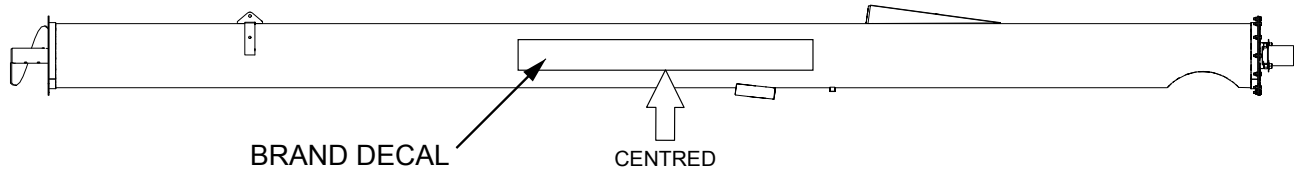
Important

Do not cover any existing safety or instruction decals with the model decals.

1. Apply decals to both sides of auger tube.
2. Center decals vertically and apply to auger tube.

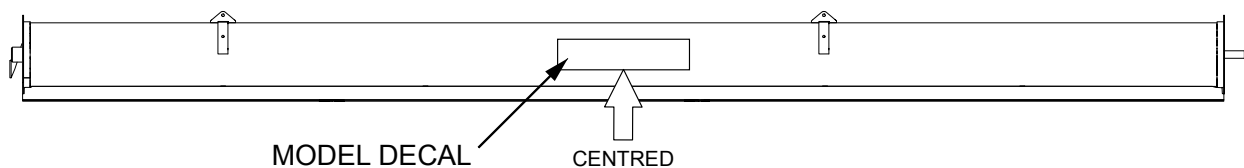
Brand Decal Location

UPPER TUBE



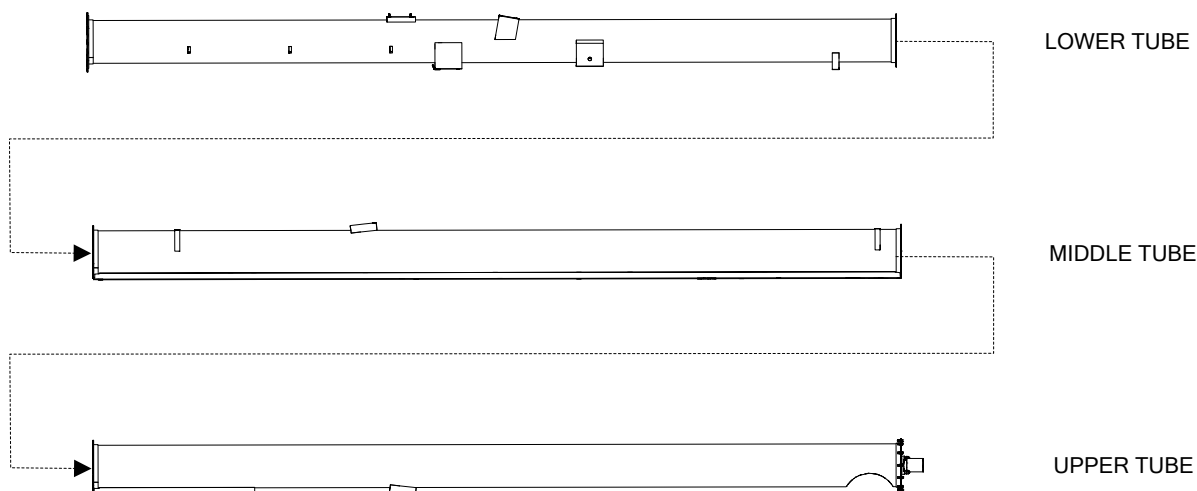
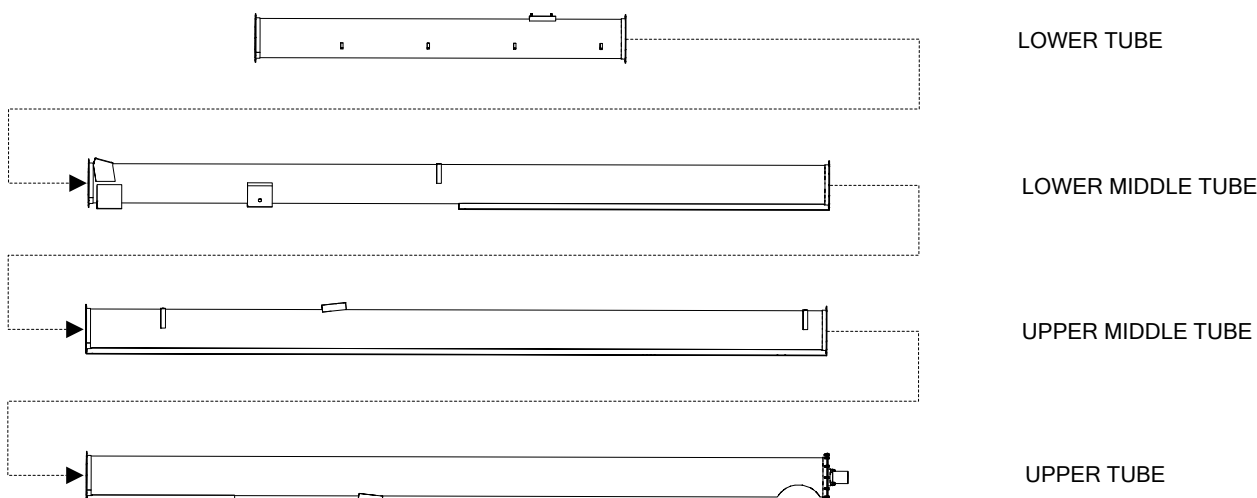
Model Decal Location

MIDDLE TUBE



4.5. Identify and Arrange Auger Tube Sections

1. Align tube sections on a series of support stands, placing a support stand at the end of each tube.
2. As tubes sections are added, make sure that support stands are at equal heights across all tubes to ensure that tubes are level with each other. Otherwise, use some form of shim to keep the tubes level across all of the support stands.
3. *Strap tubes to the support stands to prevent the tubes from rolling off the stands.*

64' Models**74' Models**

4.6. Install Hydraulic Lift Cylinders

1. Identify the tube section where the hydraulic lift cylinders install, and rotate the section so that the cylinder mount brackets are facing up.
2. Position one lift cylinder on the right side of welded brackets on the lower end of auger tube (see [Figure 1 on page 27](#) for correct position). Attach with four 7/16" x 1-1/4" bolts and locknuts. **Tighten securely.**

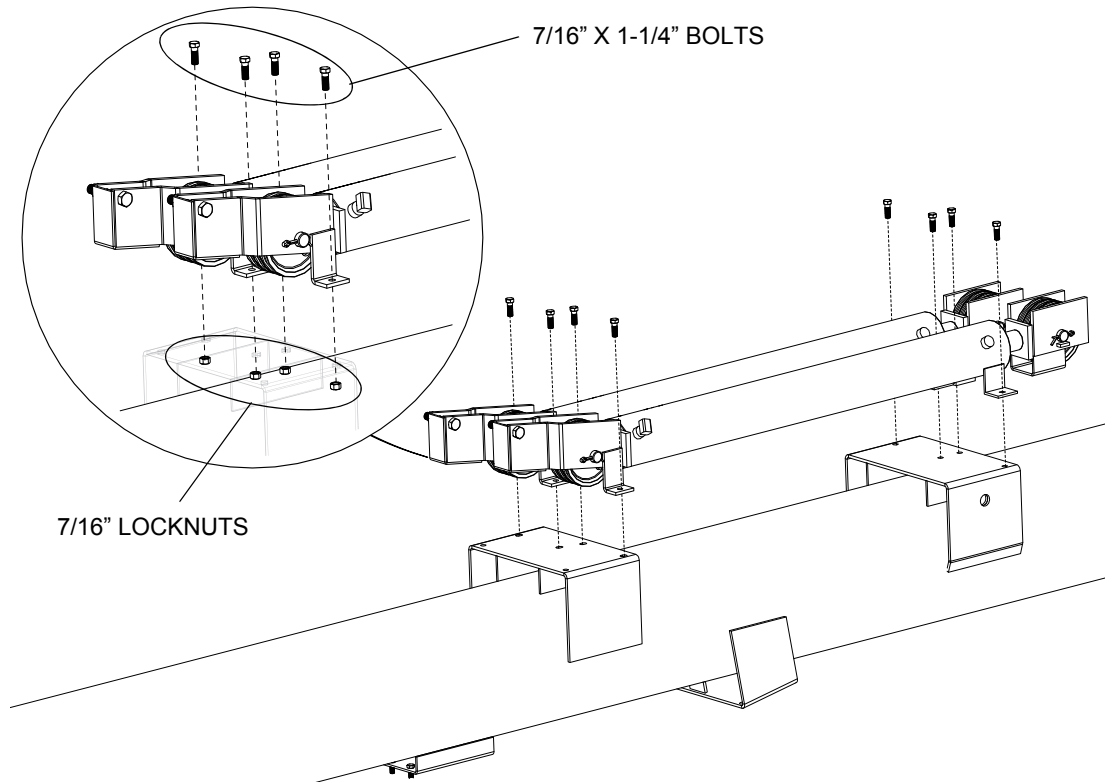
Note

The hydraulic lift cylinders must be positioned with the rod end towards the discharge end of auger.

3. Position the second lift cylinder on the remaining position beside the first cylinder on the welded bracket, and secure it with four 7/16" x 1-1/4" bolts and locknuts. **Tighten securely.**
4. Rotate the auger tube section so that the lift cylinders are facing down, and ensure that the tube is secure on its supports.

5. Strap the tube in place and proceed with connecting auger tube sections together.

Figure 1. Installing Lift Cylinders



4.7. Connect Auger Tube Sections Together

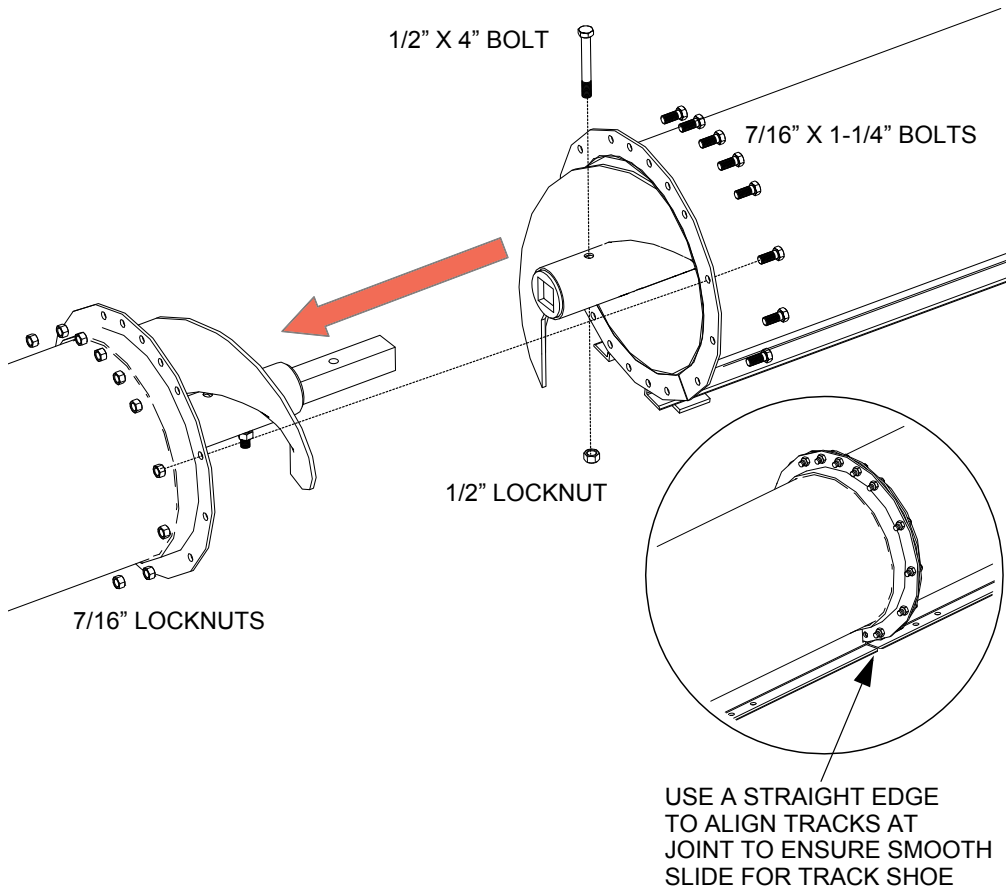
Important

Always strap tubes to the support stands to prevent the tubes from rolling off the stands.

Note

Assemble the auger tube starting with the discharge section and working toward the intake section.

1. Bolt tube sections together (see [Figure 2 on page 28](#) for details), working from the spout end (upper tube) toward the discharge end (lower tube):
 - a. Align flightings to ensure a continual spiral of auger surface, and connect flight shafts with 1/2" x 4" bolts and 1/2" locknuts.
 - b. As flight shafts are connected, slide tube sections together and secure with 7/16" x 1-1/4" GR8 bolts and 7/16" locknuts.

Figure 2. Connecting Auger Tubes Sections and Flights

4.8. Install the Track Shoe, Trackstop, and Cable Roller

Refer to [Figure 3 on page 29](#) for the MKX13-64, and [Figure 4 on page 30](#) for the MKX13-74.

1. Slide the double roller track shoe onto track with cable attach-rod towards auger intake. Attach the angle trackstop using four 7/16" x 1-1/4" bolts and 7/16" locknuts.
- ➡ 2. **MKX13-64:** attach the flat iron track stop to lower end of track with two 7/16" x 1-1/4" bolts and locknuts ([Figure 3 on page 29](#)).
3. Slide track shoe along full length of track to make sure there is no binding and that track ends are properly aligned.
4. Install the cable roller using two 7/16" x 1-1/4" bolts and 7/16" locknuts. Note location of Cable Roller varies according to model: on the MKX13-64 the cable roller installs on a bracket on the bottom tube, and on the MKX13-74, the cable roller installs on the bottom end of the middle tube or track.

Figure 3. MKX13–64 Track Shoe, Cable Roller, and Track-Stop

NOTE:

ALL BOLTS ARE 7/16" X 1-1/4"

ALL NUTS ARE 7/16" LOCKNUTS

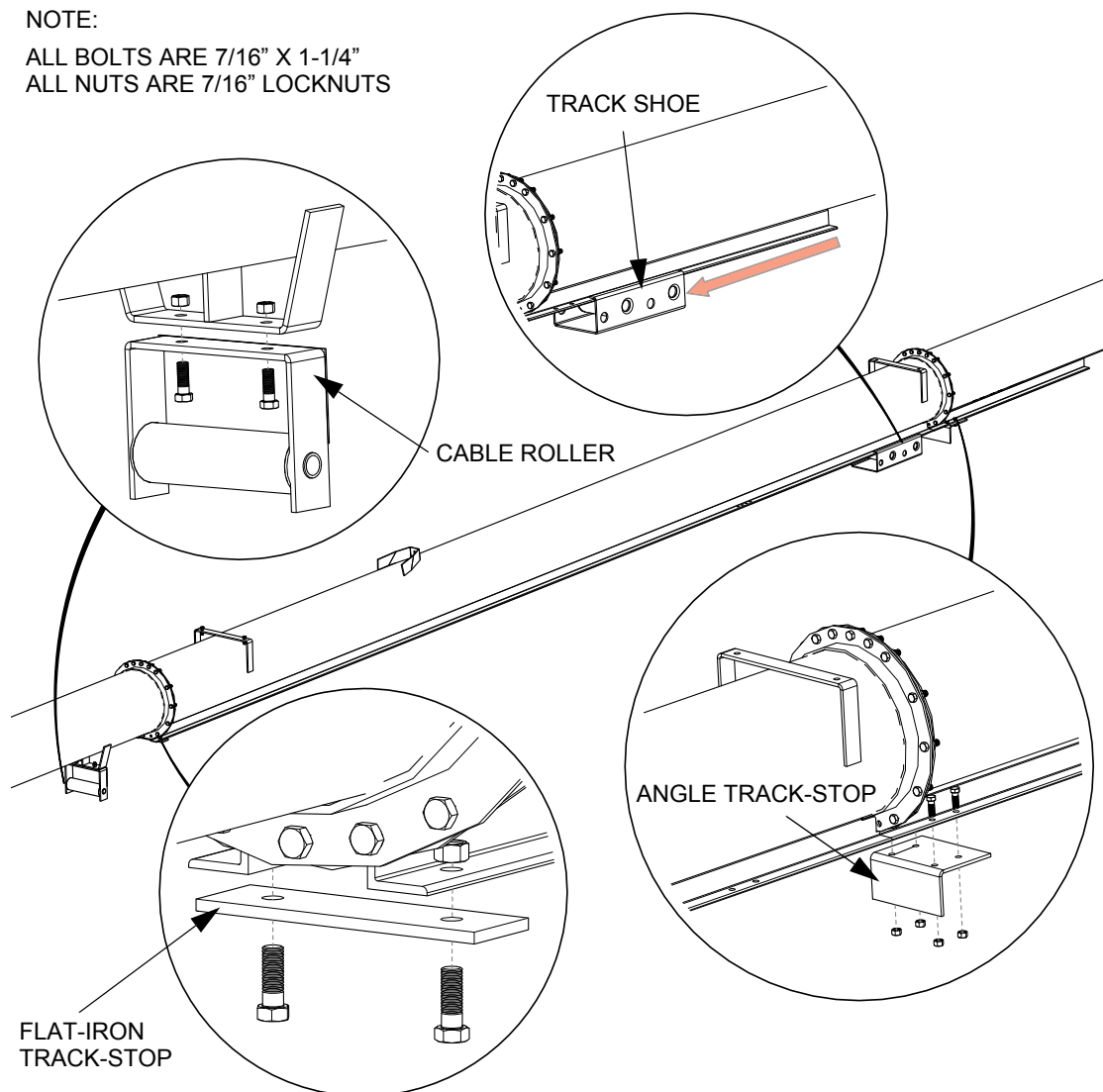
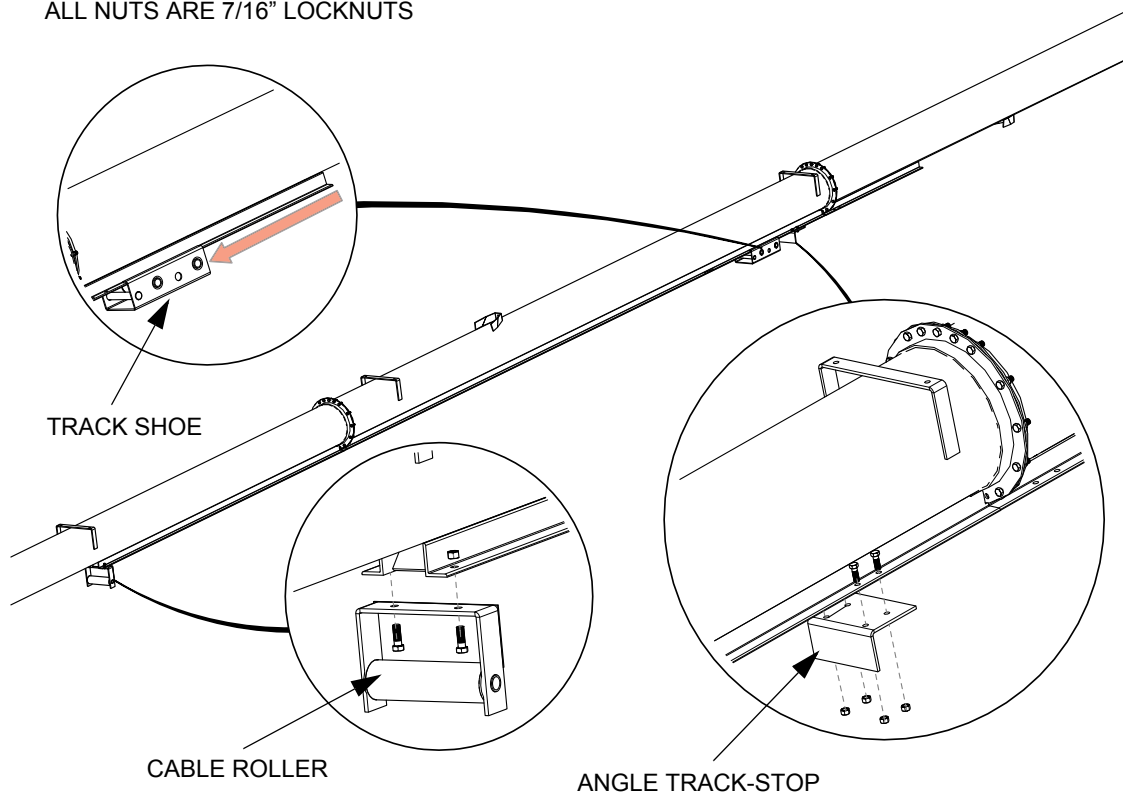


Figure 4. MKX13-74 Track Shoe, Cable Roller, and Track-Stop**NOTE:**

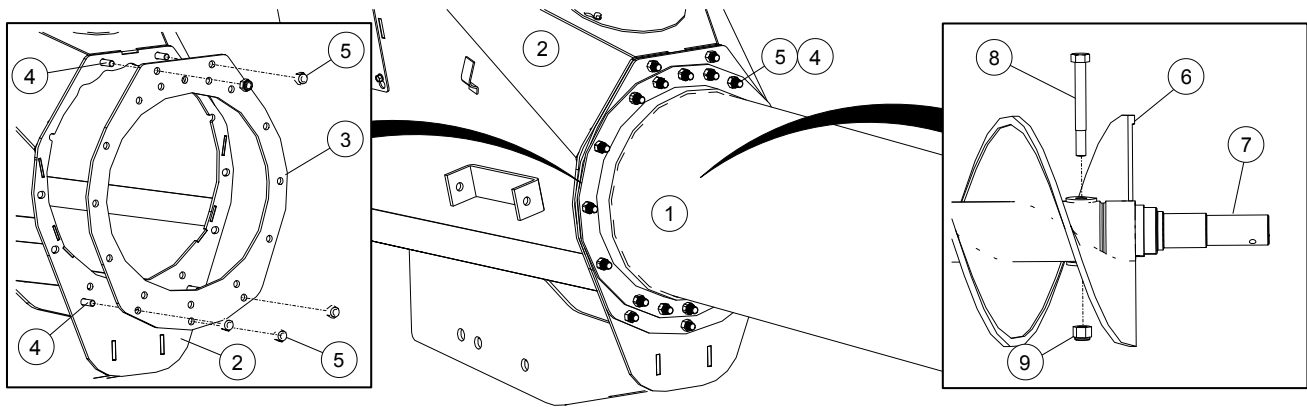
ALL BOLTS ARE 7/16" X 1-1/4"

ALL NUTS ARE 7/16" LOCKNUTS



4.9. Install the Boot on the Auger Tube

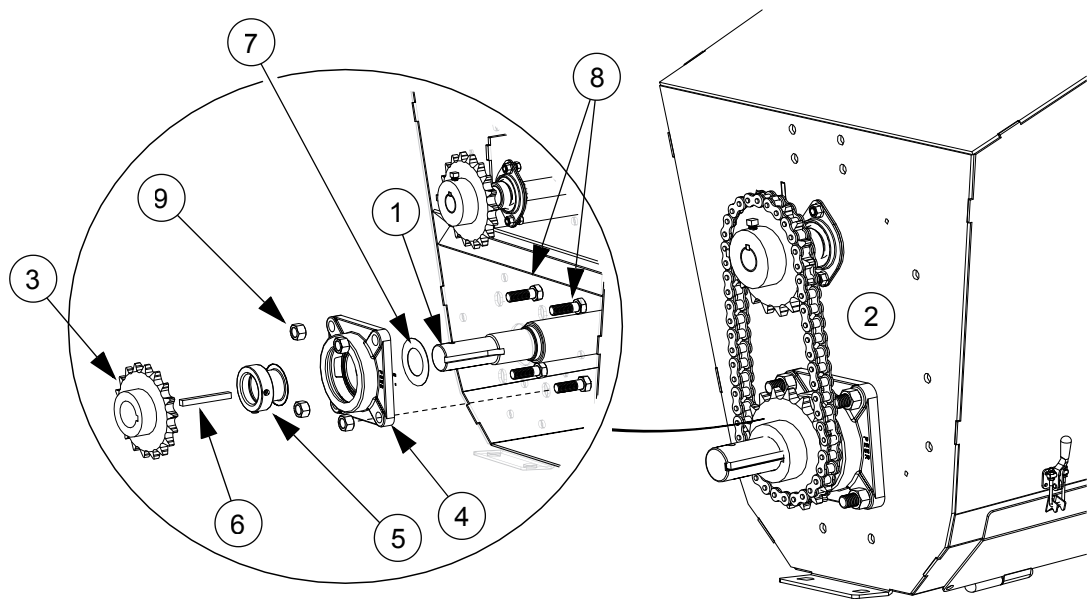
⚠ WARNING Components are heavy and create a crushing hazard if improperly handled. Be sure to use proper hoisting equipment and procedures, and ensure lifting apparatus is secure. Lock out the lifting apparatus before working around or under the raised components; failure to do so may cause serious personal injury.



Assembly Notes:

- The boot gearbox is sent from the factory filled half way with 2.5 L (0.66 gal) EP90 gear oil. Before further assembly, check oil level to make certain the gearbox is half full. Add oil if necessary. Do not use grease.
- Position the boot-tube attach plate with flat edge facing up.
- Ensure that the boot flighting is fastened to the lower tube flighting shaft with a 5/8" x 5-1/2" bolt and locknut before proceeding.
- Slide boot flight into the boot first, then slide the entire apparatus onto the lower flight to install.

1	Lower Tube	6	Boot Flighting
2	Boot Assembly	7	Lower Tube Flighting
3	Boot-Tube Attach Plate	8	Bolt, 5/8" x 5-1/2"
4	Bolt, 7/16" x 1-1/4"	9	Locknut, 5/8"
5	Locknut, 7/16"		

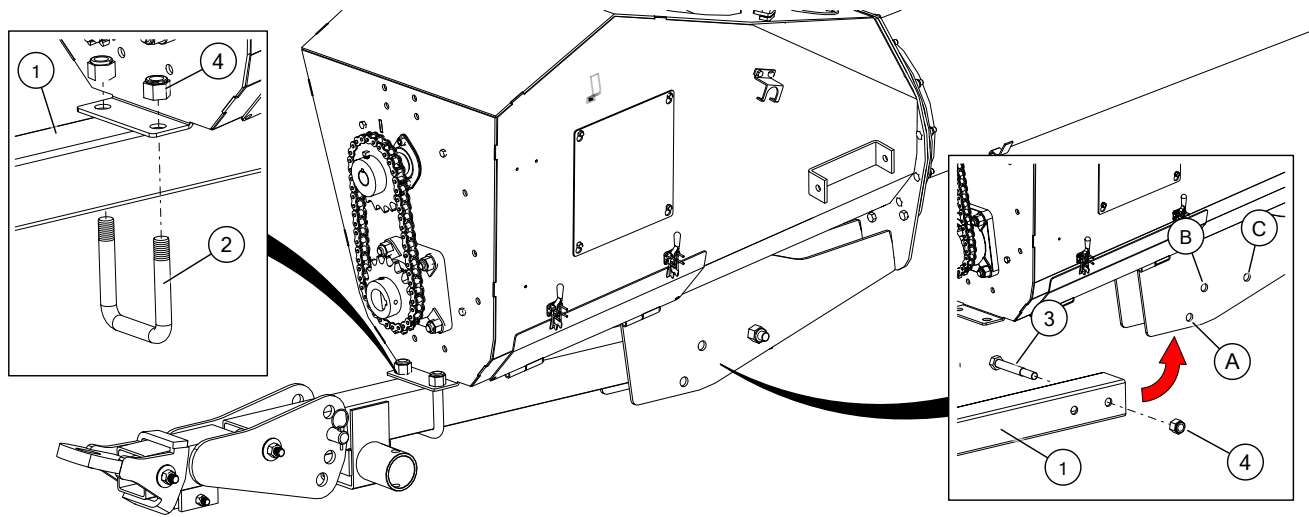


Assembly Notes:

- Ensure that the flight shaft shoulder is seated against washer and bearing.
- Position the lock collar tightly against the bearing, then tighten the collar set screw.
- Align lower sprocket face with upper sprocket face using a straight edge, then tighten set screws.
- It is recommended you use a thread locking compound that meets or exceeds Loctite Blue© on all set screws.
- To prevent premature failure of the lower bearing, ensure it has been assembled in the correct sequence.
- Push the flighting shaft down until the chain is tensioned to within about 1/4" deflection, then tighten the four bolts on the bottom bearing. Oil the chain lightly.

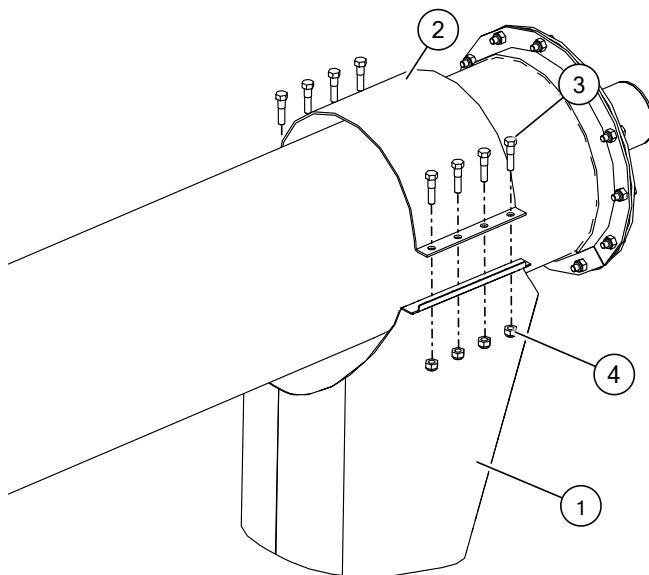
1	Lower Tube Flighting	6	Square Key, 3/8" x 3-3/8"
2	Roller Chain, #80 x 37P (Heavy)	7	Rim Washer, 2"
3	Sprocket, 80B18 x 1-3/4	8	Bolt, 5/8" x 2"
4	Bearing	9	Locknut, 5/8"
5	Lock Collar		

4.10. Install the Boot Tow Bar



1	Tow Bar	A	Reducer/Reverser
2	U-Bolt, 3/4" x 3-1/2" x 5"	B	Reverser
3	Bolt, 3/4" x 5-1/2"	C	Regular
4	Locknut, 3/4"		

4.11. Install the Spout



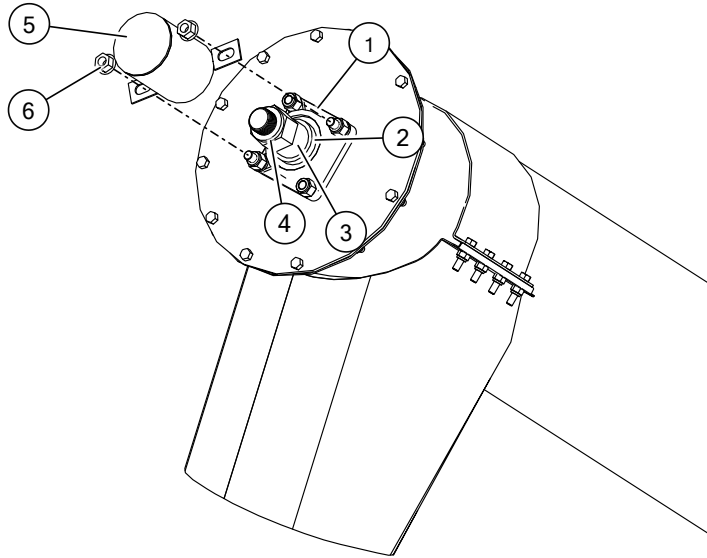
Assembly Note:

- Apply caulking to seal the seam of spout to tube.

1	Spout
2	Wide Half Clamp
3	Bolt, 7/16" x 1-3/4"
4	Locknut, 7/16"

4.12. Set the Thrust Adjuster

1. Remove the upper bearing lock collar (if necessary). Ensure that flight shaft slides freely in/out of bearing.
2. Slide the lock collar and bushing onto the shaft and attach the 1-1/2" nut.
3. Turn the nut until it is snug against the bushing, then turn it so that the shaft moves an additional 1/4" away from the top plate.
4. Secure the lock collar and tighten the set screw.
5. Install the cover over the two longer 5/8" bolts. Secure with two 5/8" whiz-nuts.



1	Bearing
2	Lock Collar
3	Bushing
4	Nut, 1-1/2"
5	Cover
6	Whiz Nut, 5/8"

4.13. Install Truss Support Brackets and Truss Cables

See [Figure 5 on page 36](#), [Figure 6 on page 37](#), [Figure 7 on page 38](#), and [Figure 8 on page 39](#).

Note

3/8" cable clamps are supplied to secure truss cables to the eyebolts as described below. All other applications require 5/16" cable clamps.

1. Fasten lower truss anchor to bracket.
 - use two 7/16" x 1-1/4" bolts and locknuts on the bracket welded to the lower tube
2. Fasten truss brackets to the auger tube with two 7/16" x 1-1/4" bolts and locknuts for each truss bracket (see [Figure 5 on page 36](#) or [Figure 7 on page 38](#) for correct truss bracket location).
3. Thread truss cable through eyebolt and double-back 9-1/2" (24 cm) of cable. Secure the cable in place by installing and tightening two 3/8" cable clamps.
 - a. Apply the first clamp 8-1/2" from the cable loop with the u-bolt over the dead end. The live end rests in clamp saddle. Tighten nuts firmly but do not fully tighten.
 - b. Apply the second clamp as close to the loop as possible in the same orientation as the first clamp. The live end rests in clamp saddle. Apply tension and tighten nuts firmly but do not fully tighten.
4. Insert eyebolt into lower truss anchor and thread on a 1/2" locknut a short way.

5. Pull the cable over the truss brackets, around upper truss anchor and back over truss support brackets to the lower truss anchor bracket, holding it loosely in place with one 5/16" cable clamp at upper truss anchor bracket, and two 5/16" cable clamps at each truss bracket.

Note

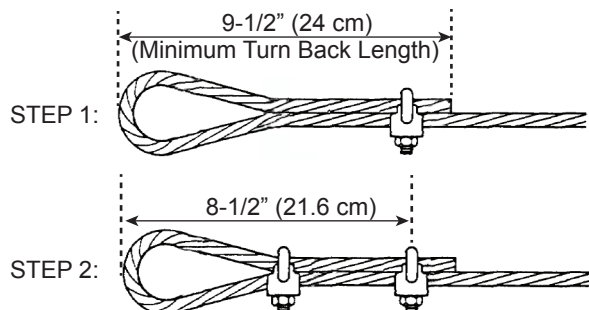
Do not tighten cable clamps at this time.

6. The upper end of augers equipped with truss cables should have an upward bow before being placed on the transport undercarriage (auger tube will straighten when fully assembled). Place supports under the discharge end until upward bow is correct. The upward bow should be about 3" (7.6 cm) on the MKX13-64 auger and 5" (12.7 cm) on the MKX13-74 auger.
7. Place the second eyebolt into the lower truss anchor bracket and thread on a 1/2" locknut a short way.
8. Thread truss cable through the eyebolt and pull out all slack. Ensure a minimum turn back length of 9-1/2" (24 cm) of cable. Secure the cable in place by installing and tightening two 3/8" cable clamps.
 - a. Apply the first clamp 8-1/2" (21.6 cm) from the cable loop with the u-bolt over the dead end. The live end rests in clamp saddle. Tighten nuts firmly but do not fully tighten.
 - b. Apply the second clamp as close to the loop as possible in the same orientation as the first clamp. The live end rests in clamp saddle. Apply tension and tighten nuts firmly but do not fully tighten.
9. Tighten eyebolts to take remaining slack out of truss cable and to maintain the appropriate upward bow.

Important

Once auger is fully assembled, adjust truss cables on all units (because of initial stretching). Cables may also require adjustment for side alignment.

10. After tension is adjusted, tighten all cable clamps to the recommended torque. Check for proper side alignment.



Cable Clamp	Nut Torque
5/16"	20 ft·lb
3/8"	30 ft·lb

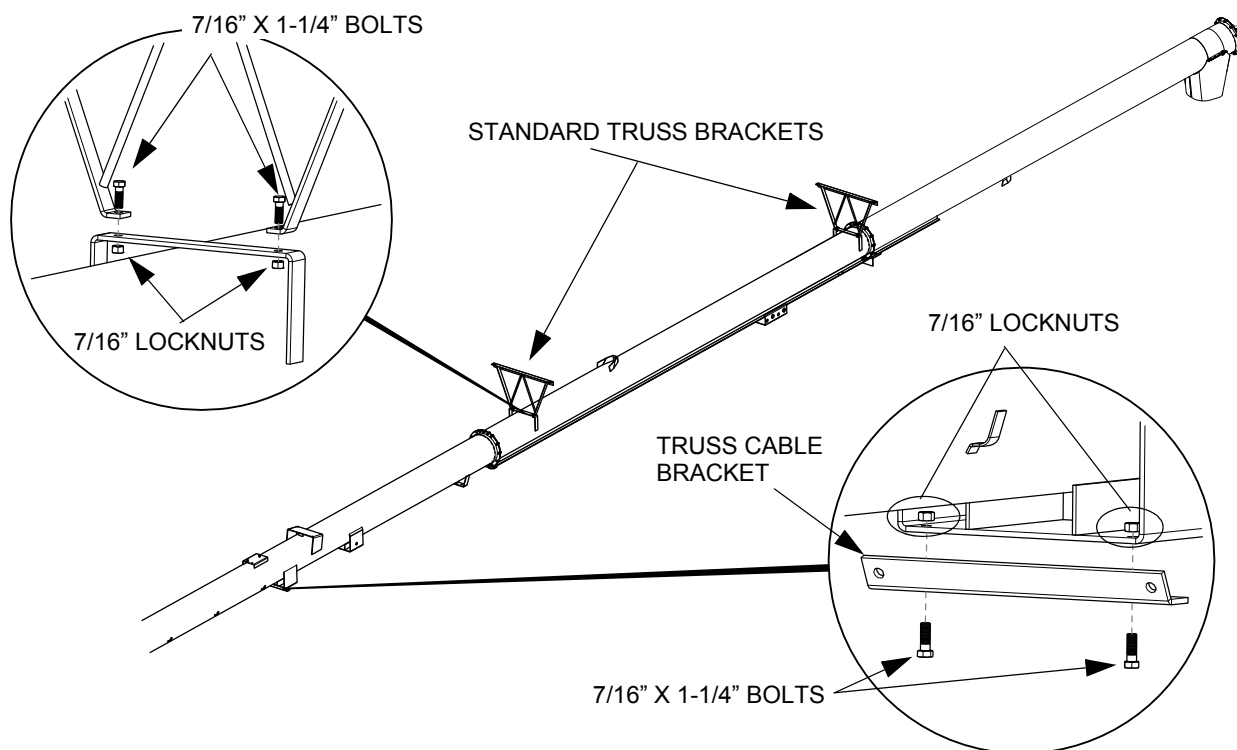
Figure 5. MKX13–64 Truss Support and Truss Cable Brackets

Figure 6. MKX13–64 Truss Cables

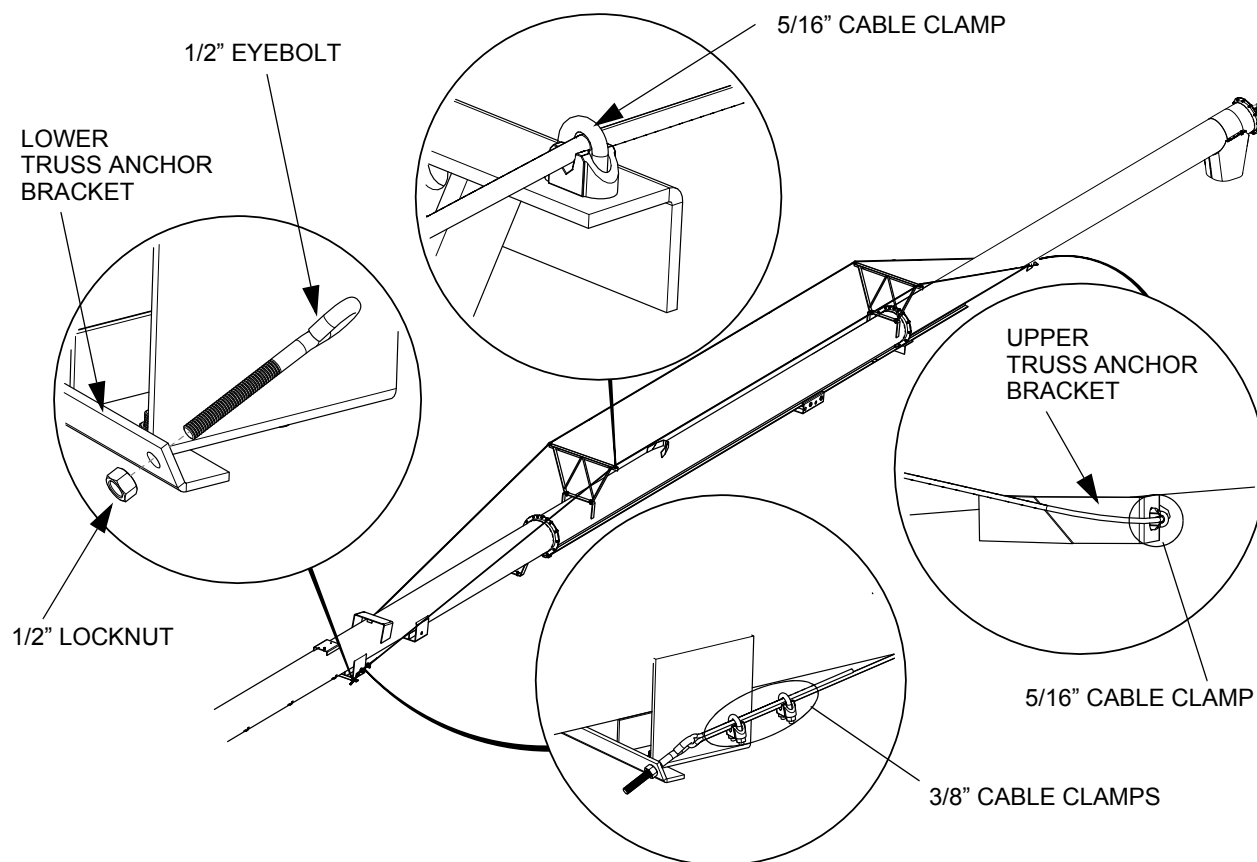


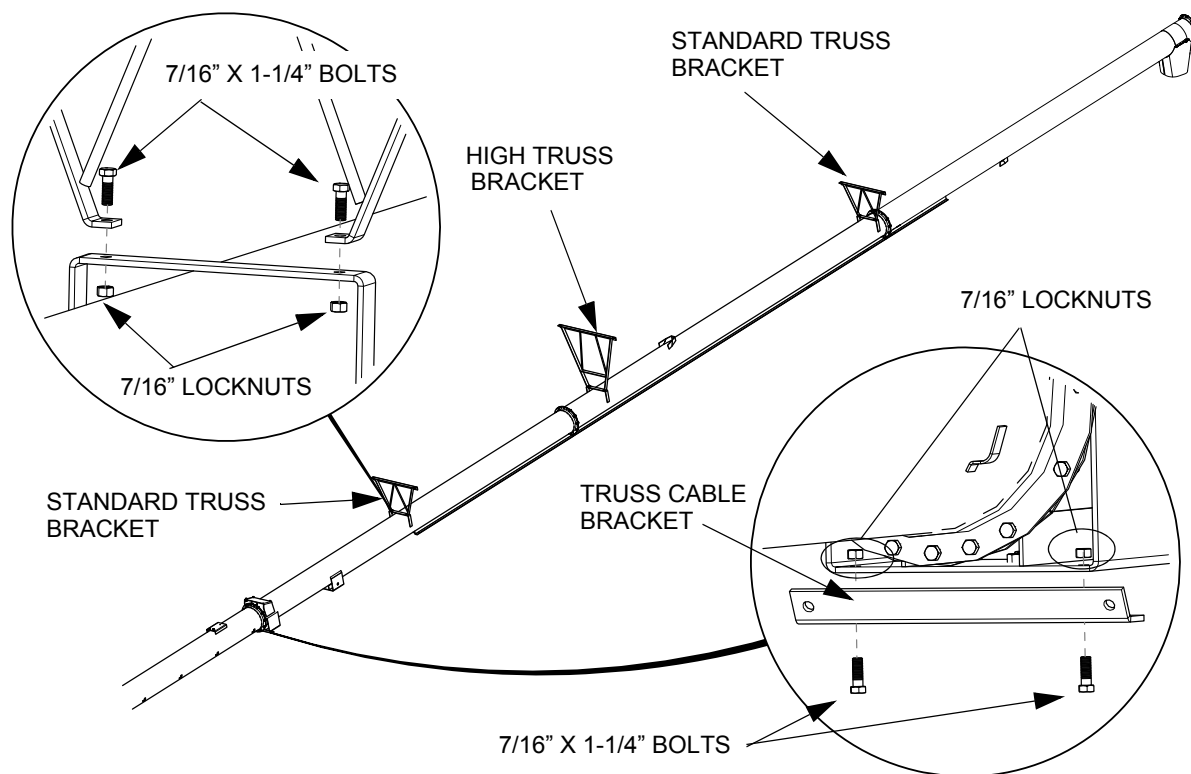
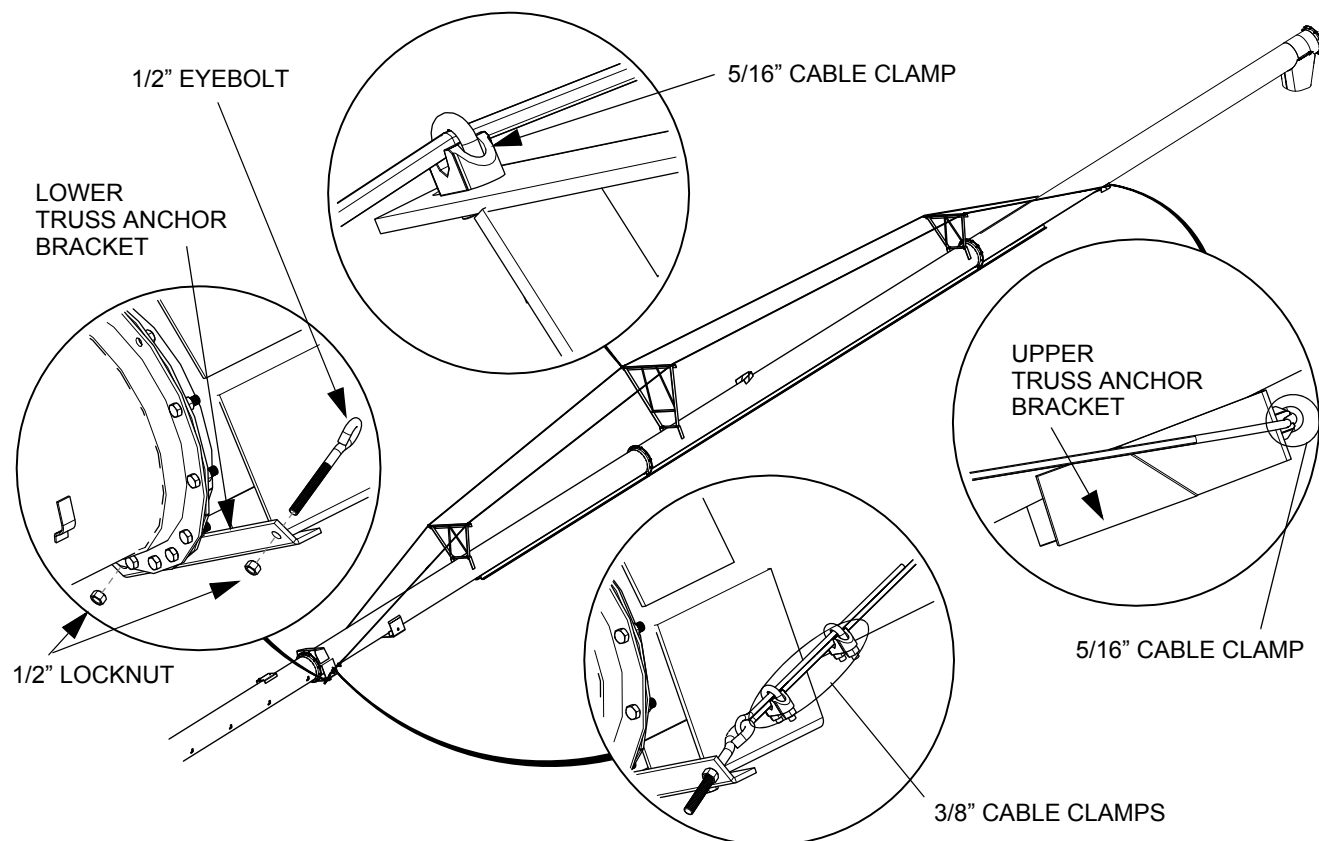
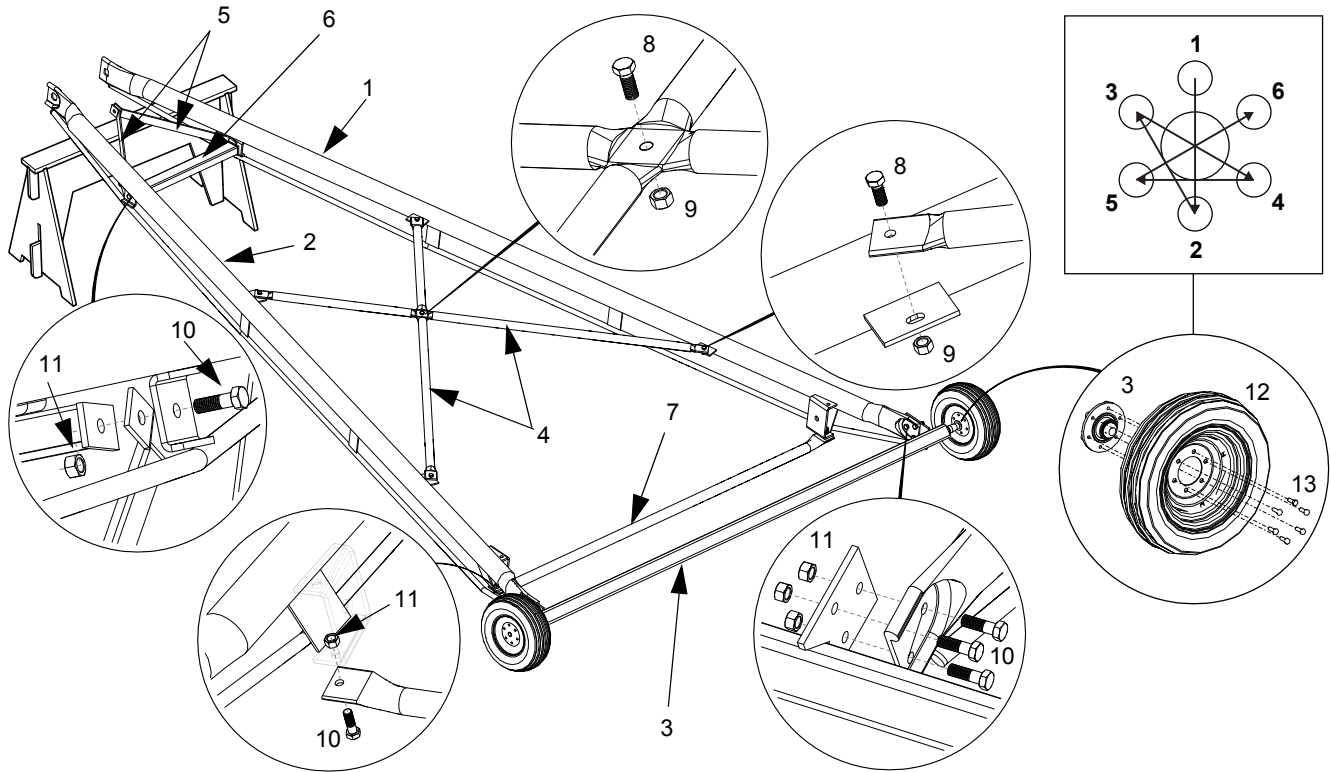
Figure 7. MKX13–74 Truss Support and Truss Cable Brackets

Figure 8. MKX13–74 Truss Cables

4.14. Assemble the Frame

1. Fasten the lower reach arms (1, 2) to the axle (3) with three 5/8" x 2" bolts and locknuts on each side.
2. Attach long cross member (7) to bottom of large brackets on the lower reach arms with two 5/8" x 2" bolts and locknuts.
3. Loosely attach short cross member (6) between the lower reach arms with two 5/8" x 2" bolts and locknuts, sandwiching the stabilizer braces (5) between the short cross member and small frame brackets on each side. Leave loose until the other ends of the stabilizer braces are connected in [Section 4.15 – Connect the Auger Tube to the Frame on page 41](#).
4. Secure the tubing cross braces to the welded lugs on the lower reach arms with four 1/2" x 1-1/4" bolts and locknuts, and a fifth one where the braces cross. **Tighten securely.**
5. Check that pressure of pre-inflated tires matches pressure indicated on tire sidewall. Mount wheels on hubs and attach with six 1/2" x 1-1/4" wheel bolts.

Figure 9. MKX13-64/74 Lower Frame**Table 2. MKX13-64/74 Lower Frame Parts**

Item	Description	Item	Description
1	Lower Reach Arm, LH	8	Bolt, 1/2" x 1-1/4"
2	Lower Reach Arm, RH	9	Locknut, 1/2"
3	Axle	10	Bolt, 5/8" x 2"
4	Frame Cross Brace	11	Locknut, 5/8"
5	Frame Stabilizer Brace	12	Wheel
6	Short Cross Member	13	Wheel Bolt, 1/2" x 1-1/4"
7	Long Cross Member		

4.15. Connect the Auger Tube to the Frame

1. Raise the discharge end of auger with a front end loader and a strong sling/chain or block and tackle. The height should be sufficient to clear the undercarriage assembly.



WARNING Do not remove tube support until the assembly in this section has been completed.

2. Place undercarriage beneath tube assembly.
3. Position stabilizer braces (see [Figure 10 on page 42](#)) and attach lower reach arms to bracket on tube with long spacer bushings, flat washers, bolts (for MKX13-64 use 1" x 3-1/2" bolts, for MKX13-74 use 1" x 3-3/4" bolts) and locknuts. **Tighten securely.**
4. Fasten flat braces to stabilizer braces:
 - **For MKX13-64:** Fasten flat braces to first set of holes (furthest from intake) on stabilizer brackets with one 5/8" x 2" bolt and locknut. Place one 5/8" x 1-1/2" bolt and locknut in other hole of the stabilizer bracket.
 - **For MKX13-74:** Fasten flat braces to first set of holes (furthest from intake) on stabilizer brackets with one 5/8" x 2-1/4" bolt and locknut. Place one 5/8" x 1-1/2" bolt and locknut in other hole of the stabilizer bracket.
5. Fasten upper reach arms to lower reach arms using two short spacer bushings (3/4" long), flat washers, and 1" x 3-1/2" bolts and locknuts. **Tighten securely.**
6. Attach the frame cross braces to the upper reach arms by loosely attaching the frame cross braces using five 1/2" x 1-1/4" bolts and locknuts.
7. Attach upper reach arms to track shoe. Use a short spacer bushing (3/4" long) and flat washer on both sides; insert the 1" x 10" bolt and **tighten securely** with locknut.
8. Tighten all bolts and nuts.
9. Lower upper end of auger slowly until track shoe rests against upper track stop.

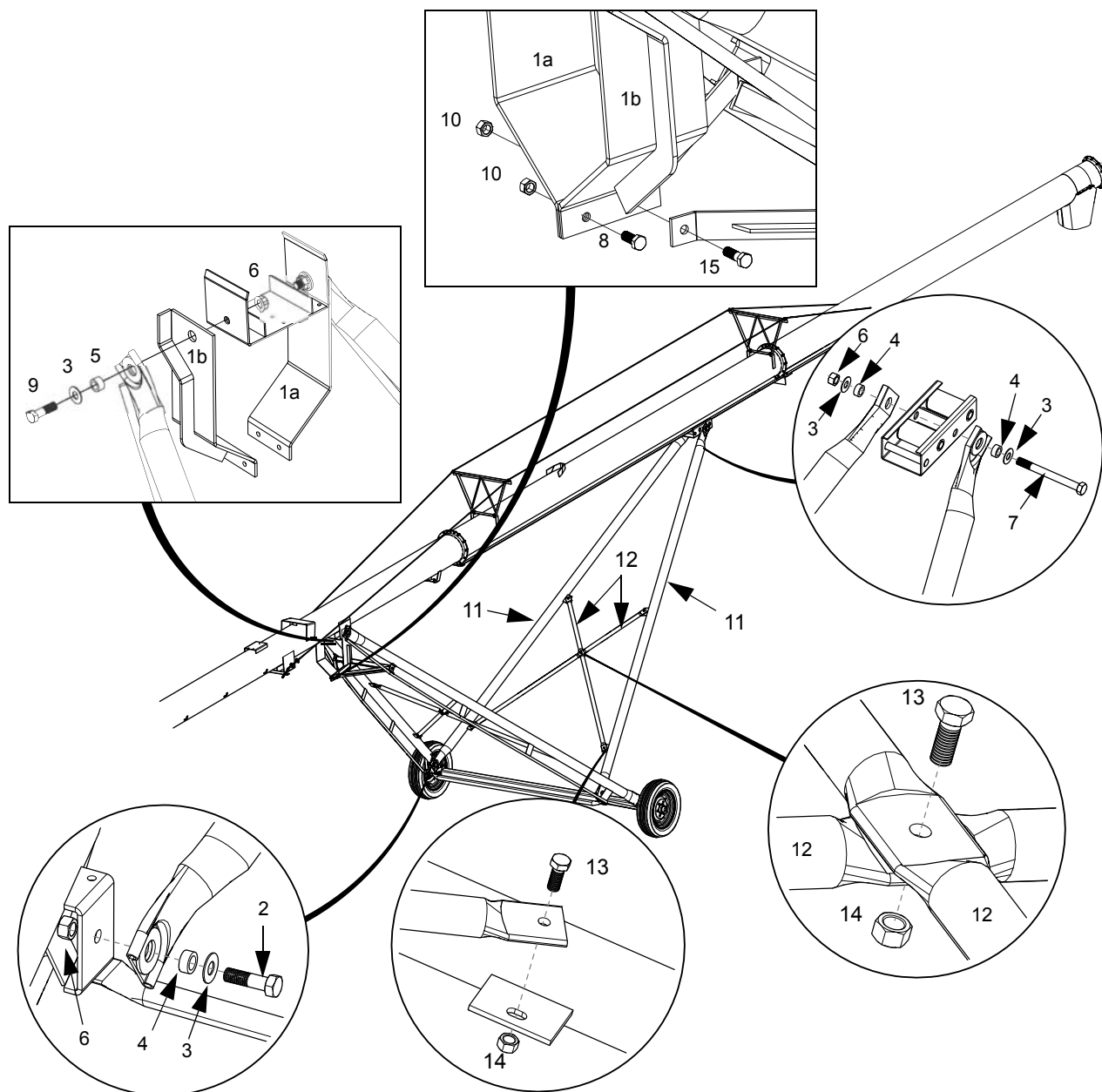
Figure 10. Connecting the Auger Tube to Frame (MKX13–64/74)

Table 3. Parts Required to Connect the Auger Tube to the Frame (MKX13–64/74)

Item	Description	Item	Description
1a	Stabilizer Bracket, LH	9	Bolt, 1" x 3-1/2" (64' Only)
1b	Stabilizer Bracket, RH		Bolt, 1" x 3-3/4" (74' Only)
2	Bolt, 1" x 3-1/2"	10	Locknut, 5/8"
3	Flat Washer, 1"	11	Upper Reach Arm
4	Short Spacer Bushing	12	Frame Cross Braces
5	Long Spacer Bushing	13	Bolt, 1/2" x 1-1/4"
6	Locknut, 1"	14	Locknut, 1/2"
7	Bolt, 1" x 10"	15	Bolt, 5/8" x 2" (64' Only)
8	Bolt, 5/8" x 1-1/2"		Bolt, 5/8" x 2-1/4" (74' Only)

4.16. Install the Auger Tube Lift Cylinders and Cables



CAUTION Track shoe must rest against track stop when adjusting cable.

If this isn't done, the auger can raise higher than designed to lift, resulting in damage to auger and possible injury to personnel.

Note

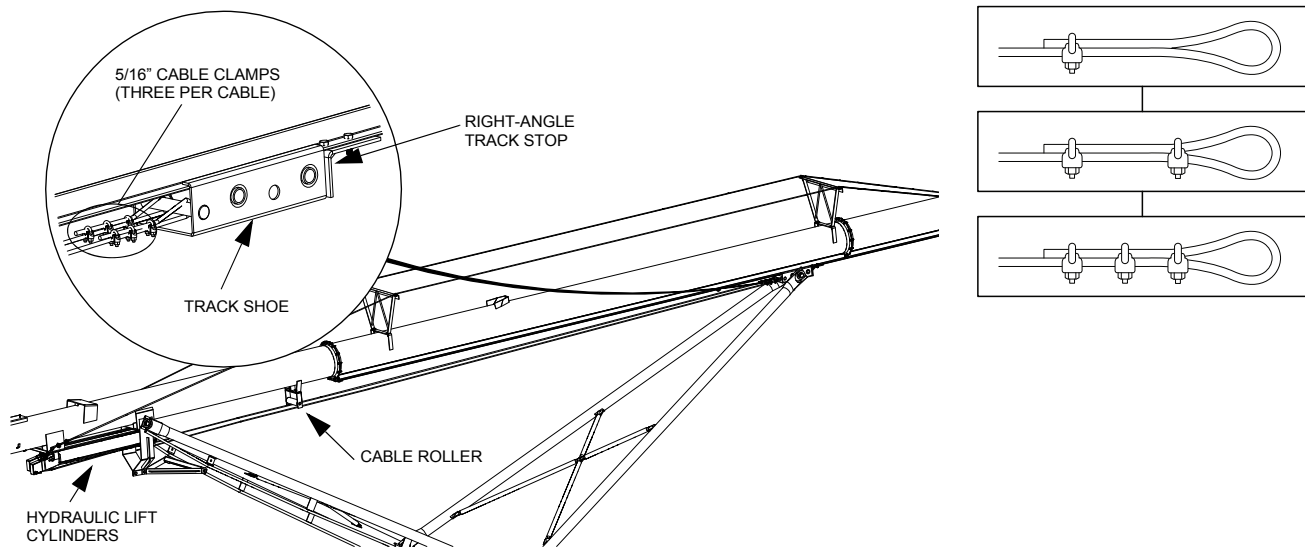
Although the lift cable is factory installed on the cylinder, make sure that the cable clamps on the cylinder are secure and the cables are properly seated in the cable sheaves before attaching the other end of cable to the track shoe.

- With both cylinders fully retracted and track shoe resting against the track stop, thread both cables over the cable-attach-rod on the track shoe and pull very tight. Ensure a minimum turn back length of 7-3/4" (20 cm) of cable.
- Secure the cables in place by installing and tightening three 5/16" cable clamps on each cable.
 - Apply first clamp 6-3/4" from the cable loop with u-bolt over the dead end. Live end rests in clamp saddle. tighten nuts evenly to recommended torque of 20 ft·lb.
 - Apply second clamp as close to loop as possible with the u-bolt over the dead end. Live end rests in clamp saddle. Turn nuts firmly but do not tighten.
 - Apply third clamp evenly between the first two with the u-bolt over the dead end. Live end rests in clamp saddle.
 - Apply tension and tighten all nuts evenly to recommended torque of 20 ft·lb.

Note

Lift cable will stretch with initial use. Check frequently and adjust.

- Ensure that the cable-roller is installed in the appropriate location using two 7/16" x 1-1/4" bolts and locknuts (see [Section 4.8 – Install the Track Shoe, Trackstop, and Cable Roller on page 28](#)).

Figure 11. Connecting the Lift Cylinder Cables to the Track Shoe

4.17. Connect Hydraulic Hoses and Ball Valve

Note

Determine right or left side of auger by standing at intake end facing top discharge end.

Note

Elbow fittings are factory installed. Use thread sealant on fitting and hose threads (not supplied).

See [Figure 12](#), [Figure 13](#), and [Figure 14](#) for reference diagrams.

Important

Ensure that the lift cables are tightly stretched before proceeding. Failure to do so could result in gradual hose wear that could lead to hydraulic hose and lift failure during operation, causing a hazardous condition.

Important

Protect hose ends from dirt during assembly.

1. Secure the T-fitting to the elbow fitting on left side lift cylinder, with the elbow fitting positioned straight down.
2. Securely attach the short hose between cylinders, ensuring that the swivel connector end connects to the tee fitting on left-side cylinder.

Note

Make sure that the short hose is **under** the lift cable on left-side lift cylinder (see [Figure 12 on page 45](#)). Failure to do so could result in the hose wearing through during operation, causing a hazardous condition.

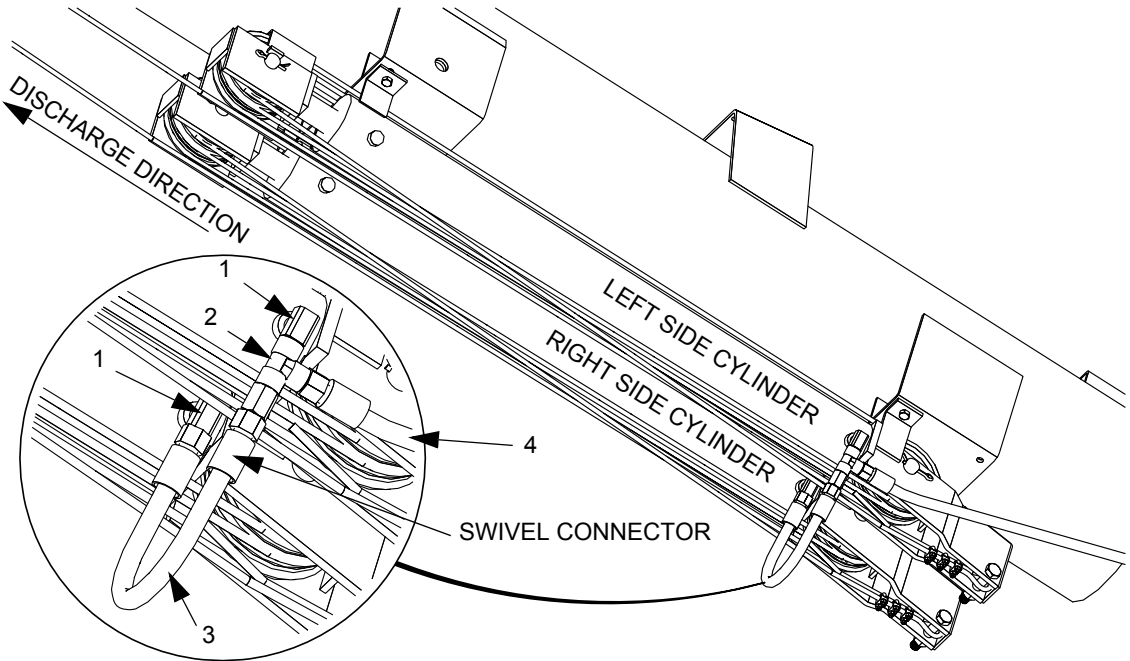


WARNING Wear on hose can cause auger to drop suddenly, causing serious injury or death.

3. Connect the long hydraulic hose to the T-fitting.
4. Run the hose along the tube to the boot, using bendable clasps welded to the side of auger tube and boot to hold the hose in place. Bend tops of the clasps over slightly to secure the hose.

- Secure the ball valve to the boot using the valve holder and two 1/4" x 3/4" bolts and locknuts (see [Figure 14 on page 46](#)).
- Recheck that bolts on undercarriage, lift cylinders, and cable clamps are tight, then remove auger tube support.

Figure 12. Hydraulic Fittings and Hoses for MKX13–64/74 Augers



Note

The short hydraulic hose must be installed UNDER the lift cable on the left side cylinder. Ensure adequate clearance between lift cables and hoses to prevent any contact during lifting, lowering, or in full-down position.

Item	Description	Item	Description
1	3/8" Elbow Fitting (port facing down)	3	Short Hydraulic Hose
2	3/8" Tee Fitting	4	Long Hydraulic Lift Hose

Figure 13. Hydraulic Diagram for MKX13–64/74 Augers

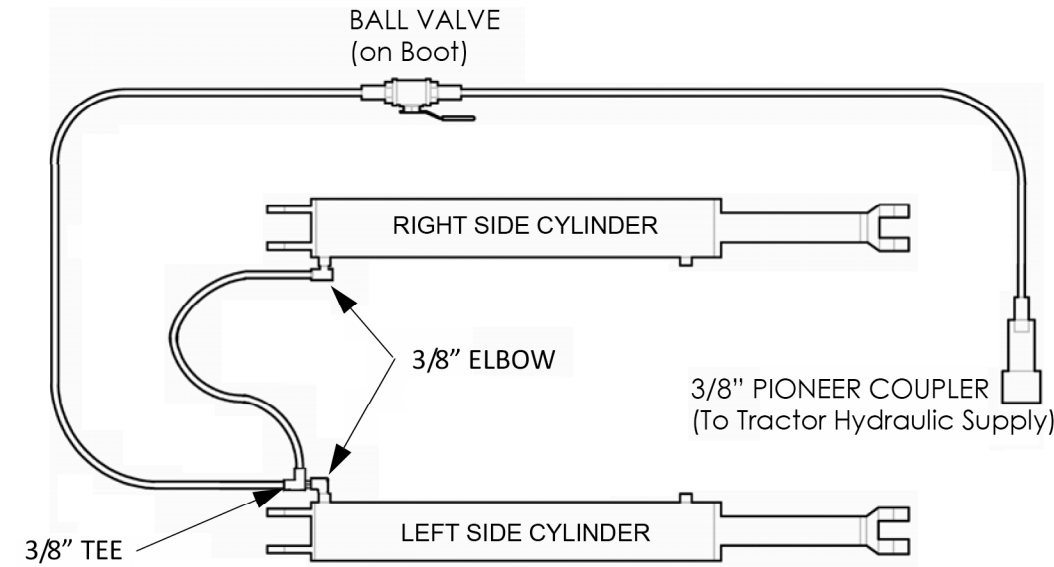
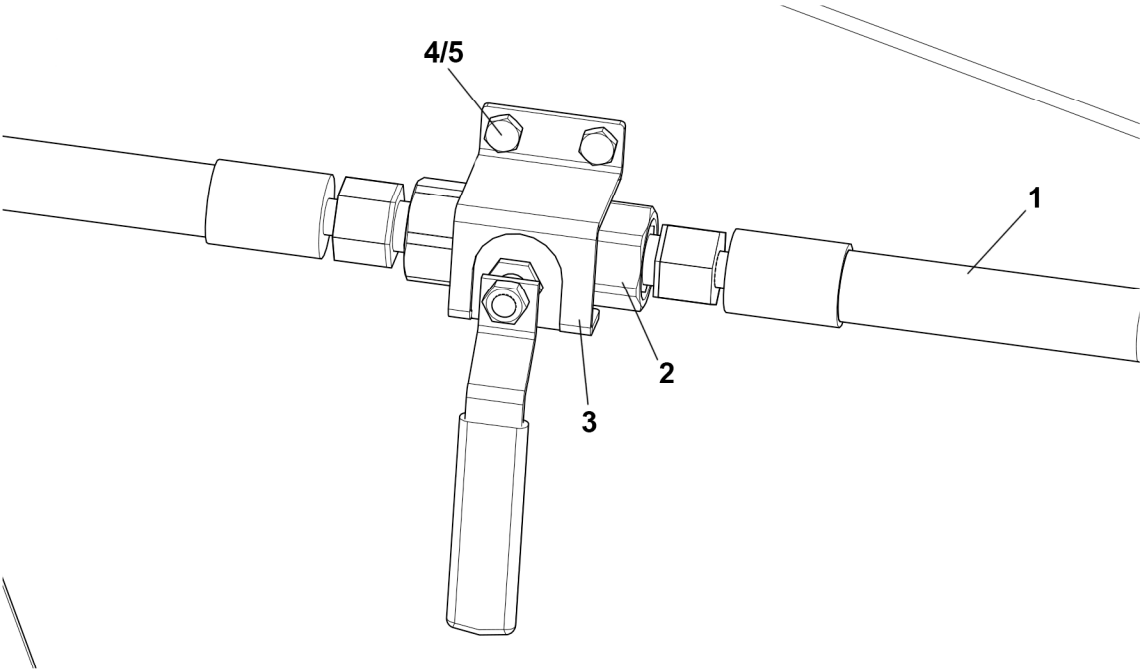
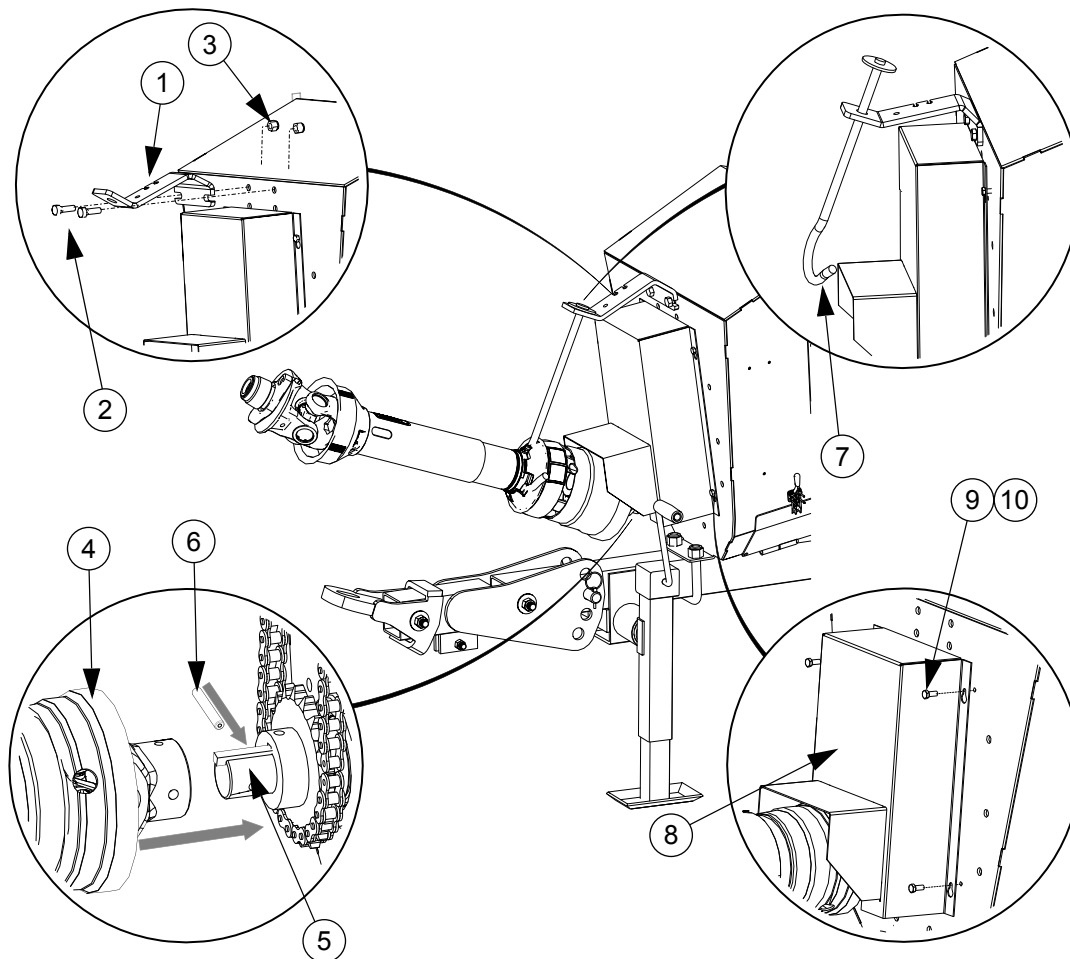


Figure 14. Installing the Ball Valve on the Boot



Item	Description	Item	Description
1	Cylinder Hose Assembly	4	Bolt, 1/4" x 3/4"
2	Ball Valve	5	Locknut, 1/4"
3	Valve Holder		

4.18. Connect the PTO Driveline



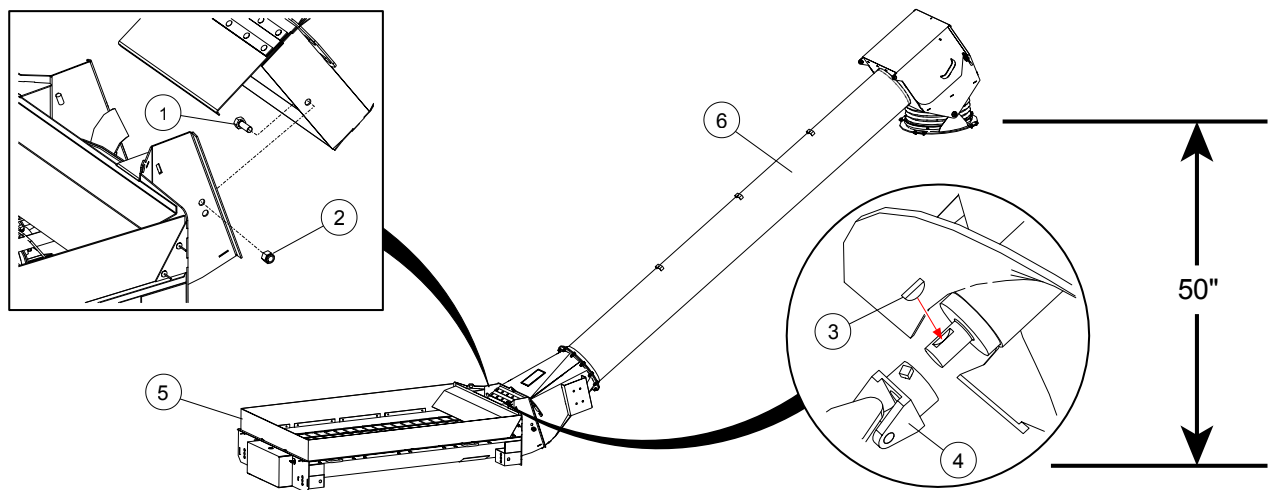
Assembly Note:

- Clean paint or dirt off of PTO driveline and flighting shaft ends.

1	PTO Bracket	6	Roll Pin, 3/8" x 2-1/2"
2	Bolt, 1/2" x 1-1/2"	7	Transport Saddle
3	Locknut, 1/2"	8	Sprocket Cover
4	PTO	9	Bolt, 5/16" x 3/4"
5	Square Key, 3/8" x 3-3/8"	10	Locknut, 5/16"

4.19. Install Low Profile Intake Hopper

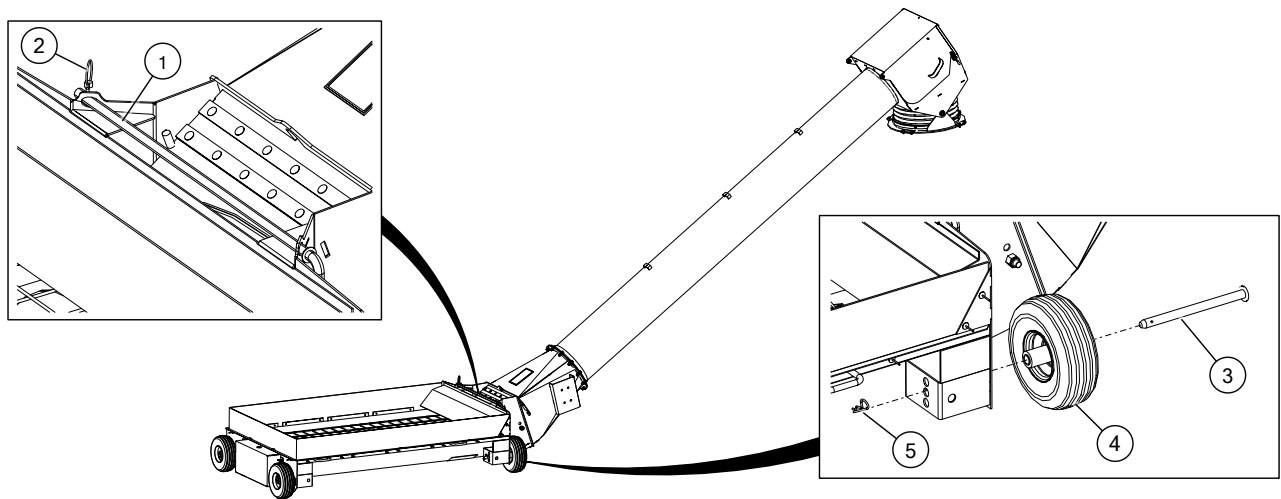
⚠ WARNING Components are heavy and create a crushing hazard if improperly handled. Be sure to use proper hoisting equipment and procedures, and ensure lifting apparatus is secure. Lockout the lifting apparatus before working around or under the raised components. Failure to do so may cause serious personal injury.



Assembly Notes:

- Clean dirt and paint from inside the u-joint and flighting shaft end, grease the shaft end, then insert a woodruff key.
- Raise and support the hopper tube spout head on a stand about 50" high.
- DO NOT overtighten; tighten to a slightly loose fit only as these bolts act as pivot points.

1	Bolt, 5/8" x 1-1/2"	4	U-Joint
2	Locknut, 5/8"	5	Hopper Assembly
3	Woodruff Key	6	Swing Tube Assembly



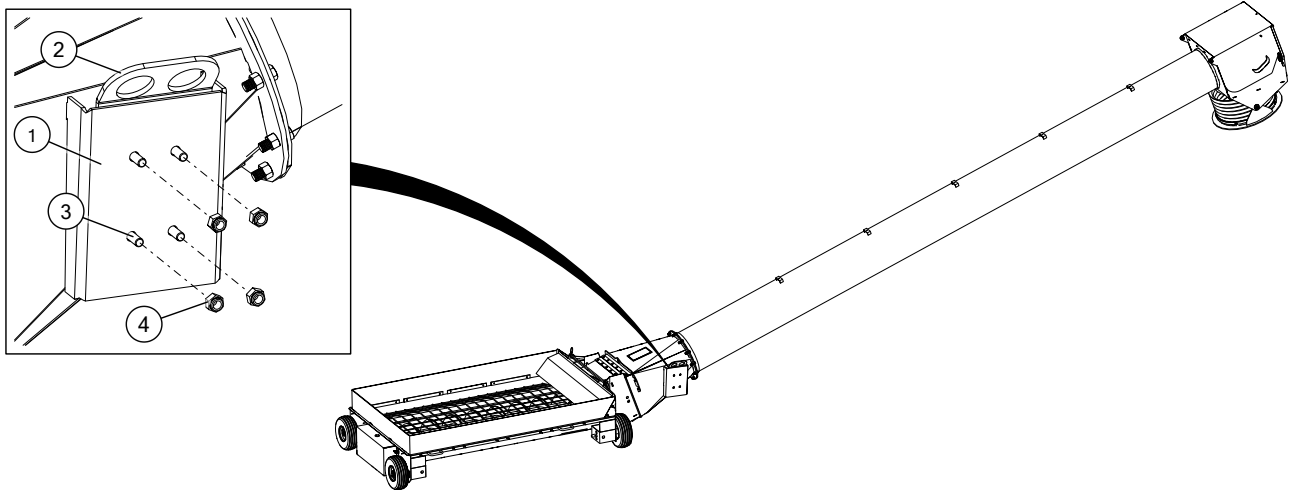
Assembly Notes:

- Tighten set screws on u-joints, then close and secure the service door.
- There are 3 height settings for the hopper wheels that can be used according to preference.

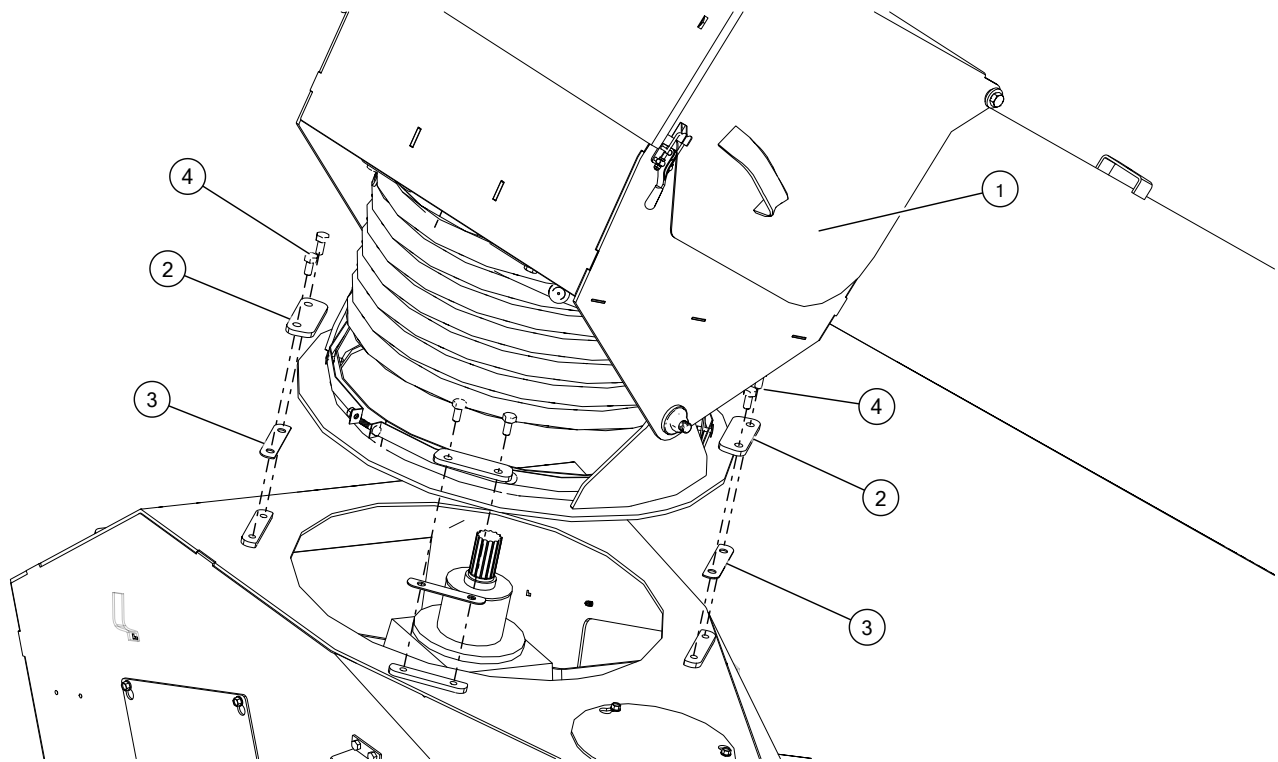
1	Door Pin	4	Wheel
2	Lynch Pin	5	Hairclip
3	Wheel Axle		

15' Swing Tube Assembly Only (Optional)

This option is only available for 74' models.



1	Transition	3	Bolt, 7/16" x 1-1/4"
2	Swing Lift Bracket	4	Locknut, 7/16"



Assembly Notes:

- Open the spring clasps and rotate the spout lid open, so that it lies down on the top of the swing tube.
- Clean the u-joint spline and splined shaft on the lower gearbox, then apply a light film of grease on this splined shaft.
- Guide the splined u-joint onto the splined gearbox shaft.
- Lubricate the u-joint, then close and secure the spout head lid.
- Always keep the spout head lid closed and secured during operation.

1	Spout Head Lid	3	Spout Head Spacer
2	Spout Head Retainer	4	Bolt, 3/8" x 3/4"

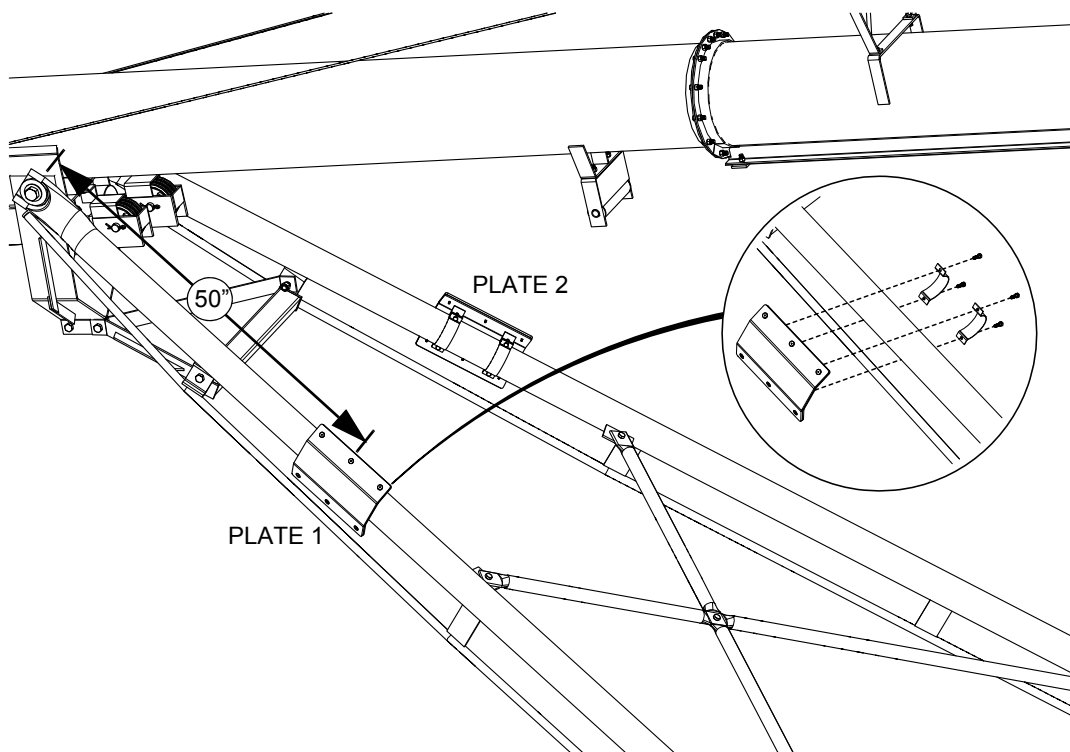
4.20. Install the Frame Deflector Plates

For the MKX13-64 auger, install a frame deflector plate assembly on each side of the auger frame to prevent the hopper from impacting the frame when it is lifted into transport position.

For both lower reach arms (left side and right side):

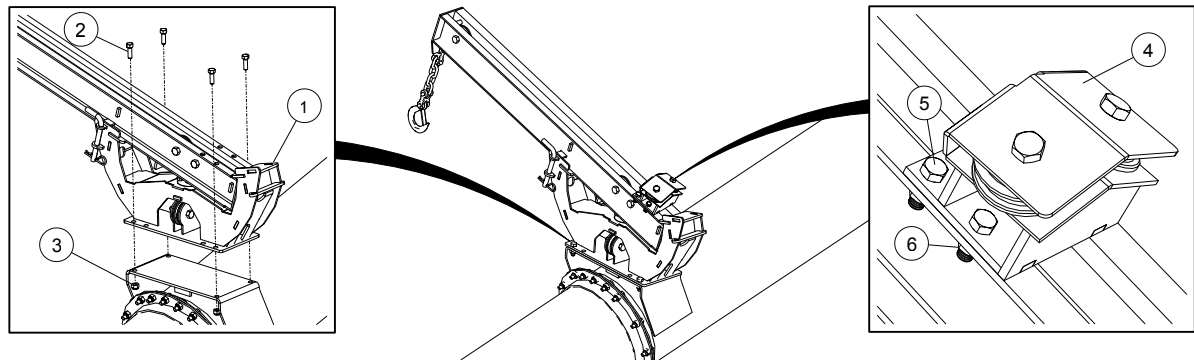
1. Measure 50" from the top of the reach arm toward the bottom of the reach arm, and mark the position clearly.
2. Use two half-ring fasteners, four 5/16" x 1" GR2 bolts, and four 5/16" locknuts to fasten a deflector plate centered at the 50" mark on the outer side of the lower reach arm.
3. Lift the hopper into transport position, and ensure that the deflectors are positioned correctly to make contact to test the positioning of the hopper-side deflector plate assembly.

Figure 15. Installing the Frame Deflector Plates



4.21. Install the Hopper Lift Arm and Winch

Augers with 10' Swing Tube Assembly (Standard)



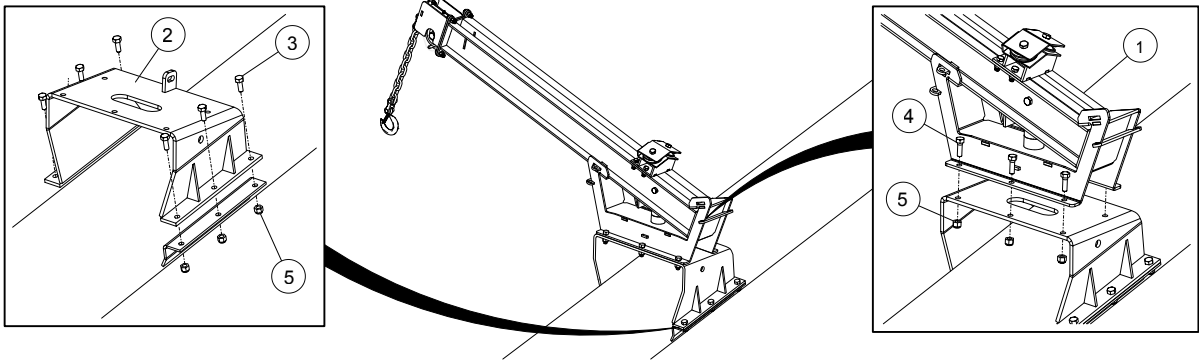
Assembly Notes:

- Determine which side of the auger the hopper will be operating on.
- Position the lift arm assembly on top of the auger tube with the arm overhanging the side that the hopper will be operating on.
- The lift arm pulley guide assembly is only required for augers with the manual winch.

1	Lift Arm Assembly	4	Lift Arm Pulley Guide Assembly
2	Bolt, 7/16" x 1-1/4"	5	Bolt, 3/8" x 1"
3	Locknut, 7/16"	6	Locknut, 3/8"

Augers with 15' Swing Tube Assembly (Optional)

This option is only available for 74' models.



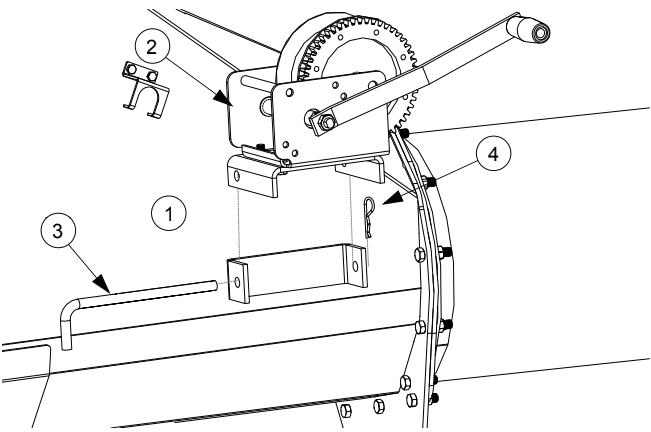
Assembly Notes:

- Determine which side of the auger the hopper will be operating on.
- Position the lift arm assembly on top of the auger tube with the arm overhanging the side that the hopper will be operating on.

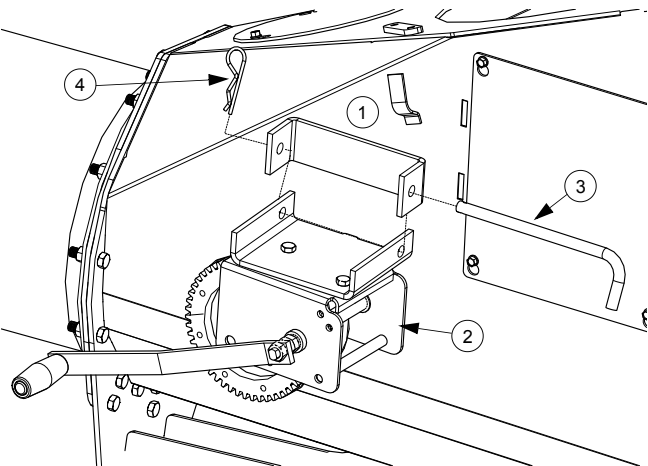
1	Lift Arm Assembly	4	Bolt, 1/2" x 1-1/2"
2	Lift Arm Mount	5	Locknut, 1/2"
3	Bolt, 1/2" x 1-1/4"		

Manual Winch Installation

Right Side



Left Side

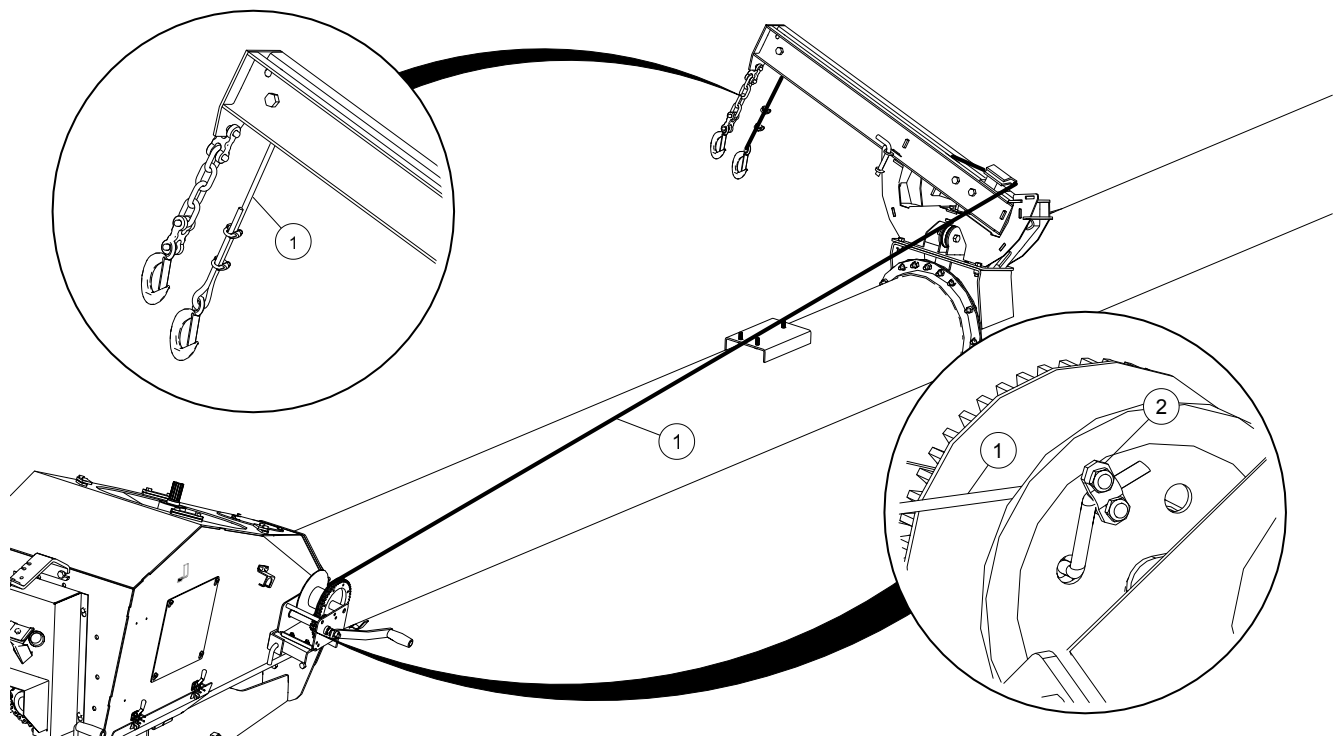


Assembly Note:

- Position the winch assembly on the opposite side that the hopper will be operating on.

1	Boot	3	Pin
2	Winch Assembly	4	Hairpin

Winch Cable



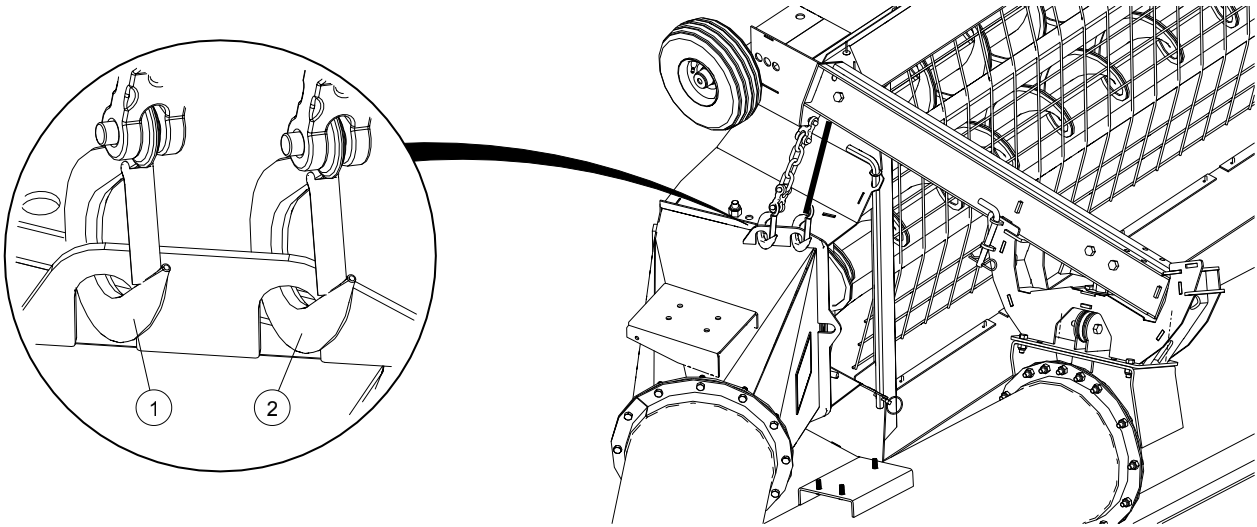
Assembly Notes:

- Thread the cable through the hopper lift arm and pull the cable to the winch.
- Wrap the cable over and around the winch spool at least three times, then insert the cable end through the hole provided in the side of the spool and secure the end with the provided cable clamp.

1	Winch Cable	2	Cable Clamp
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4.22. Hopper Transport Position

Augers with 10' Swing Tube Assembly (Standard)



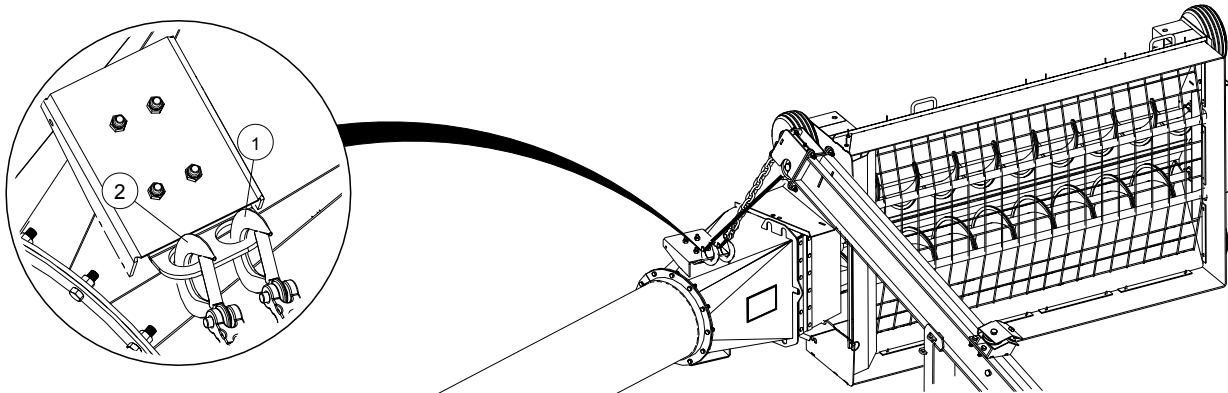
Assembly Note:

- Feed side of hopper must face the main auger when in transport.

1	Safety Chain	2	Winch Cable
---	--------------	---	-------------

Augers with 15' Swing Tube Assembly (Optional)

This option is only available for 74' models.



Assembly Note:

- Feed side of hopper must face the main auger when in transport.

1	Safety Chain	2	Winch Cable
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4.23. Install the Hitch Jack

The jack is attached to the auger with a pin at the pivot point. To install:

1. Elevate the auger boot (intake end) approximately 2' (5.08 cm) with a front-end loader and sling, and install the jack in a vertical position. Secure with supplied pin.
2. Place a board beneath the jack before setting it on the ground, then lower the auger until the jack is seated. Remove front-end loader from auger.

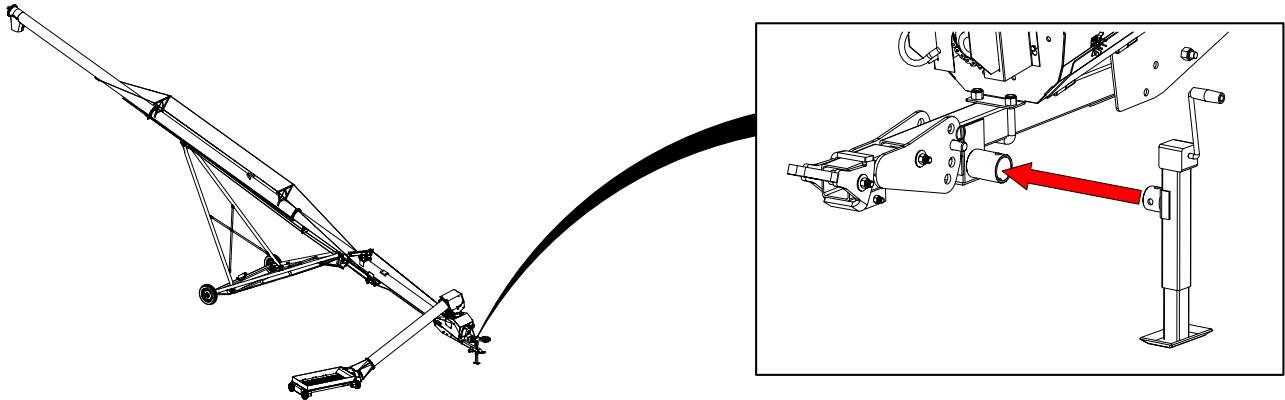
Note

Jack can be rotated 90° for transport or operation.

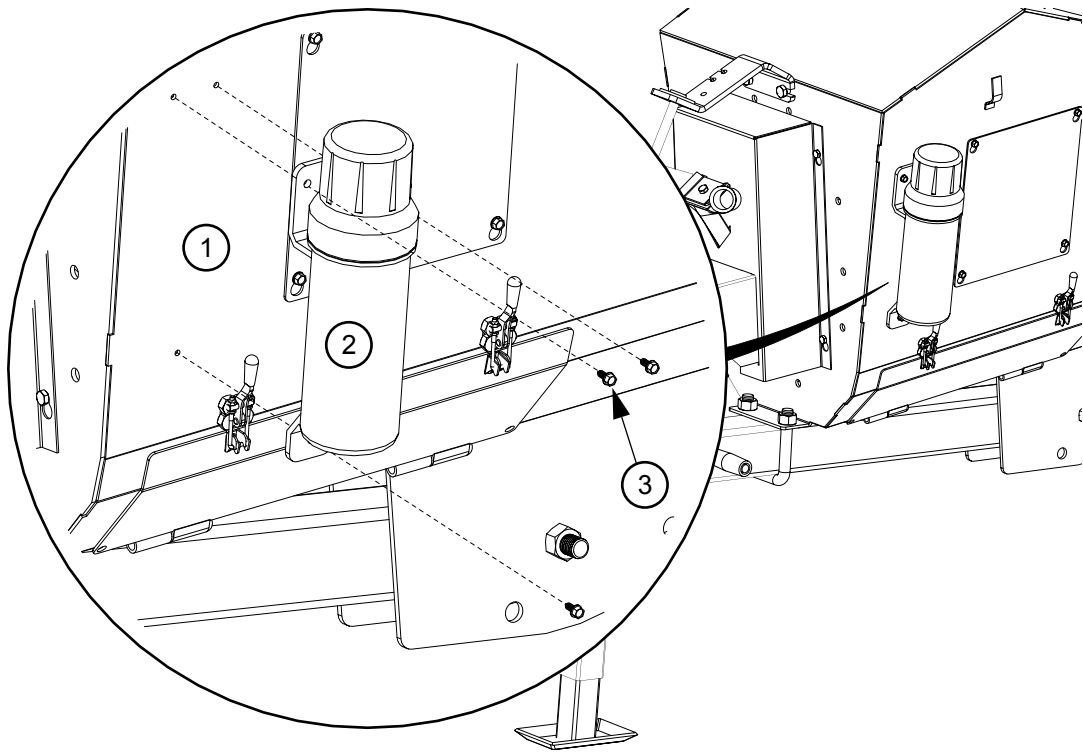


WARNING

Jack is designed for raising or lowering auger hitch only.
Do not get on or beneath auger while supported by or while jack is being operated.



4.24. Install the Plastic Manual Container



Assembly Note:

- Before beginning installation, ensure that all winch/auger lift controls are locked in place and shut down and/or lock out auger.

1	Boot	3	Self Tapping Screw
2	Plastic Manual Holder		

5. Specifications

Specification		13-64	13-74
Tube Size		13" (33.0 cm)	
CAPACITIES			
Unloading Rate		8700-9600 Bu/Hr	
TRANSPORT DIMENSIONS			
Length		64' (9.93 m)	74' (16 m)
Width		124" (3.15 m)	130" (3.30 m)
Height		13'2" (4.01 m)	14'5" (4.4 m)
DISCHARGE CLEARANCE DIMENSIONS			
Min		10'8" (3.25 m)	11'11" (3.35 m)
Max		39' (11.89 m)	44'5" (13.54 m)
REACH TO WHEELS			
Min		26'11" (8.2 m)	30'5" (9.27 m)
Max		29'6" (9 m)	33'7" (10.24 m)
TIRES			
Type		16" Bias Ply	
Inflation Pressure		See Manufacturer Recommended Pressure on Tire Sidewall	
WEIGHT			
Total Weight		4349 lb (1973 kg)	4647 lb (2107 kg)
POWER RECOMMENDATIONS			
PTO Drive		100 HP	125 HP
PART SPECIFICATIONS			
PTO Speed		550 RPM	
PTO Shaft		35R	
Shear Bolt		5/16" x 1" GR8 Bolts	
Maximum Operating Angle		15°	
Hitch Jack		5000 lb Side Winder	
Upper/Lower Gearbox Oil Capacity		0.9 US quarts (0.85 L)	
Speed Reducer Gearbox Oil Capacity		2.65 US quarts (2.5 L)	
Replacement Hose & Hose Ends	Min Strength (Working Pressure)	2500 PSI (17200 kPa)	
Hitch Pin (Minimum)		1" x 5"	

* Weights are estimated.

6. Appendix

6.1. Bolt Torque

Table 4 gives the correct torque values for various hardware. Tighten all bolts to the torque specified, unless otherwise noted. Check tightness periodically, using Table 4 as a guide. Replace the hardware with the same strength bolt, contact Westfield if you are unsure.

Table 4. Recommended Bolt Torque^a

Size	Dry or Lubricated	Threads per inch (Course/ Fine)	Area of Bolt (sq in.)		Recommended Torque (ft-lb)							
					Grade 2		Grade 5		Grade 8		8.8 S/S	
			Coarse	Fine	Coarse	Fine	Coarse	Fine	Coarse	Fine	Coarse	Fine
1/4"	Dry	20/28	0.0318	0.0364	5.5	6.3	8	10	12	14	6.3	7.8
	Lubricated				6.3	4.7	6.3	7.2	9	10	-	-
5/16"	Dry	18/24	0.0524	0.058	11	12	17	19	24	27	11	11.8
	Lubricated				8	9	13	14	18	20	-	-
3/8"	Dry	16/24	0.0775	0.0878	20	23	30	35	45	50	20	22
	Lubricated				15	17	23	25	35	35	-	-
7/16"	Dry	14/20	0.1063	0.1187	32	36	50	55	70	80	31	33
	Lubricated				24	27	35	40	50	80	-	-
1/2"	Dry	13/20	0.1419	0.1599	50	55	75	85	110	120	43	45
	Lubricated				35	40	55	65	80	90	-	-
9/16"	Dry	12/18	0.182	0.203	70	80	110	120	150	170	57	63
	Lubricated				55	60	80	90	110	130	-	-
5/8"	Dry	11/18	0.226	0.256	100	110	150	170	210	240	93	104
	Lubricated				75	85	110	130	160	180	-	-
3/4"	Dry	10/16	0.334	0.373	175	200	260	300	380	420	128	124
	Lubricated				130	140	200	220	280	310	-	-
7/8"	Dry	9/14	0.462	0.508	170	180	430	470	600	670	194	193
	Lubricated				125	140	320	350	180	180	-	-
1"	Dry	8/14	0.606	0.679	250	280	640	720	910	1020	287	289
	Lubricated				190	210	480	540	680	760	-	-
1-1/8"	Dry	7/12	0.763	0.856	350	400	790	890	1290	1440	288	290
	Lubricated				270	300	590	670	970	1080	-	-
1-1/4"	Dry	7/12	0.989	1.073	500	550	1120	1240	1820	2010	289	291
	Lubricated				380	420	840	930	1360	1510	-	-
1-1/2"	Dry	6/12	1.405	1.581	870	960	1950	2200	3160	3560	-	-
	Lubricated				650	730	1460	1640	2370	2670	-	-

^aTorque value for bolts and cap screws are identified by their head markings. Established at 75% of yield strength of bolt given the cross-sectional area.

Note

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



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Please include the part number listed on the cover page in your message.