



# FLXTOR TRANSFORMER SEED TENDER



**Document: TD-09-06-1043**

**Revision: A**



# **INTRODUCTION**

Thank you for choosing USC, LLC for your equipment needs. We appreciate your business and will work diligently to ensure that you are satisfied with your choice.

## **OVERVIEW**

The purpose of this manual is to provide you with the basic information needed to operate and maintain the Flxtor Transformer . It does not hold USC, LLC liable for any accidents or injuries that may occur.

## **OPERATOR RESPONSIBILITIES**

As the purchaser/owner/operator of this equipment and control system, you have an obligation to install, operate, and maintain the equipment in a manner that minimizes the exposure of people in your care to any potential hazards inherent in using this equipment. It is critical that the owner of this equipment:

- Has a clear and documented understanding of the process this machine is being used in and of any resulting hazards or special requirements arising from this specific application.
- Allow only properly trained and instructed personnel to install, operate or service this equipment.
- Maintain a comprehensive safety program involving all who work with this machine and other associated process equipment.
- Establish clear areas of staff responsibility (e.g. operation, setup, sanitation, maintenance, and repairs).
- Provide all personnel with necessary safety equipment.
- Periodically inspect the equipment to insure that the doors, covers, guards, and safety devices are in place and functioning, that all safety instructions and warning labels are intact and legible, and that the equipment is in good working order.
- In addition to the operating instructions, observe and enforce the applicable legal and other binding regulations, national and local codes.

As the person with the most to gain or lose from working safely, it is important that you work responsibly and stay alert. By following a few simple rules, you can prevent an accident that could injure or kill you or a co-worker.

## FLXTOR TRANSFORMER

- Do not operate, clean, or service this equipment until you have read and understood the contents of this manual. If you do not understand the information in this manual, bring it to the attention of your supervisor, or call USC at (785) 431-7900 for assistance.
- Any operator who is known or suspected to be under the influence of alcohol or drugs should not be allowed to operate the equipment.
- Understand and follow the safety practices required by your employer and this manual.
- **PAY ATTENTION** to what you and other personnel are doing and how these activities may affect your safety.
- **Failure to follow these instructions may result in serious personal injury or death.**

### RECEIVING YOUR EQUIPMENT

As soon as the equipment is received, it should be carefully inspected to make certain that it has sustained no damage during shipment and that all items listed on the packing list are accounted for. If there is any damage or shortages, the purchaser must immediately notify USC, LLC. Ownership passes to purchaser when the unit leaves the USC, LLC. premises. The purchaser is responsible for unloading and mounting all components of the equipment.

Document the serial number of the machine for future reference. The serialization label is located on the inside of the frame near the front of the Transformer.



**SERIAL NUMBER:** \_\_\_\_\_

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# SAFETY INSTRUCTIONS

## SECTION A

Every year accidents in the work place maim, kill and injure people. Although it may be impossible to prevent all accidents, with the right combination of training, operating practices, safety devices, and operator vigilance, the number of accidents can be significantly reduced. The purpose of this section is to educate equipment users about hazards, unsafe practices, and recommended hazard avoidance techniques.

### SAFETY WORDS AND SYMBOLS

It is very important that operators and maintenance personnel understand the words and symbols that are used to communicate safety information. Safety words, their meaning and format, have been standardized for U.S. manufacturers and published by the American National Standards Institute (ANSI). The European Community (E.C.) has adopted a different format based on the International Standards Organization (I.S.O.) and applicable machinery directives. Both formats are presented below. Graphic symbols are not standardized, but most manufacturers will use some variation of the ones seen in this manual.



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



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



Indicates a potentially hazardous situation which, if not avoided, **may** result in minor or moderate injury and/or property damage.



Provides additional information that the operator needs to be aware of to avoid a potentially hazardous situation.



**Mandatory Lockout Power Symbol.** Disconnect, lockout and tagout electrical and other energy sources before inspecting, cleaning or performing maintenance on this panel.



**International Safety Alert Symbol.** The exclamation point (!) surrounded by a yellow triangle indicates that an injury hazard exists. However, it does not indicate the seriousness of potential injury. The exclamation point (!) is also used with the DANGER, WARNING and CAUTION symbols so the potential injury is indicated.



**Electrocution Hazard Symbol.** This symbol indicates that an electrocution hazard exists. Serious injury or death could result from contacting high voltage.



**International Electrocution Hazard.** This symbol indicates that an electrocution hazard exists. Serious injury or death could result from contacting high voltage.



**Mandatory Read Manual Action Symbol.** (I.S.O. format) This symbol instructs personnel to read the Operators Manual before servicing or operating the equipment.



**Mandatory Read Manual Action Symbol.** This symbol instructs personnel to read the Operators Manual before servicing or operating the equipment.

**NOTICE**

Notice is used to notify people of important installation, operation or maintenance information which is not hazard related.



## **LOCKOUT / TAGOUT PROCEDURES**

Lockout/Tagout is the placement of a lock/tag on an energy isolating device in accordance with an established procedure. When taking equipment out of service to perform maintenance or repair work, always follow the lockout/tagout procedures as outlined in ANSI Z344.1 and/or OSHA Standard 1910.147. This standard “requires employers to establish a program and utilize procedures for affixing appropriate lockout devices or tagout devices to energy isolating devices and to otherwise disable machines or equipment to prevent unexpected energizing, start-up, or release of stored energy in order to prevent injury to employees.”

## **CONTROLLED STOP**

This is the stopping of machine motion by reducing the electrical command signal to 0 (zero) once the stop signal has been recognized. The operator initiates this stop by pressing the PAUSE button at the bottom of the main screen.

## **HAZARD REVIEW**

### **Electrocution Hazard**



Electrocution accidents are most likely to occur during maintenance of the electrical system or when working on or near exposed high voltage wiring. This hazard does not exist when the electrical power has been disconnected, properly locked, and tagged out.

### **Automatic Start Hazard**



This equipment may be controlled by an automated system and may start without warning. Failure to properly disconnect, lockout, and tagout all energy sources of remotely controlled equipment creates a very hazardous situation and could cause injury or even death. PLEASE STAY CLEAR AND BE ALERT.

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

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

- Equipment owners must give operating instructions to operators or employees before allowing them to operate the machine, and at least annually thereafter per OSHA (Occupational Safety and Health Administration) regulation 1928.57.
- The most important safety device on this equipment is a **SAFE** operator. It is the operator's responsibility to read and understand **ALL** Safety and Operating instructions in the manual and to follow them. All accidents can be avoided.
- A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death.
- Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.
- Think SAFETY! Work SAFELY!

### GENERAL SAFETY

1. Read and understand the operator's manual and all safety labels before operating, maintaining, adjusting or unplugging the equipment .
2. Only trained persons shall operate the equipment . An untrained operator is not qualified to operate the machine.
3. Have a first-aid kit available for use should the need arise, and know how to use it.





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4. Provide a fire extinguisher for use in case of an accident. Store in a highly visible place.
5. Do not allow children, spectators or bystanders within hazard area of machine.
6. Wear appropriate protective gear. This includes but is not limited to:
  - A hard hat
  - Protective shoes with slip resistant soles
  - Protective goggles
  - Heavy gloves
  - Hearing protection
  - Respirator or filter mask
7. Place all controls in neutral or off, stop motor, and wait for all moving parts to stop. Then disable power source before servicing, adjusting, repairing, or unplugging.
8. Review safety related items annually with all personnel who will be operating or maintaining the equipment.



### **OPERATING SAFETY:**

1. Read and understand the operator's manual and all safety labels before using.
2. Disconnect and disable electrical supply completely and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
3. Clear the area of bystanders, especially children, before starting.
4. Be familiar with the machine hazard area. If anyone enters hazard area, shut down machine immediately. Clear the area before restarting.
5. Keep hands, feet, hair and clothing away from all moving and/or rotating parts.
6. Stay away from overhead obstructions and power lines during operation and transporting. Electrocutation can occur without direct contact.
7. Do not operate machine when any guards are removed.
8. Inspect welds and repair if needed.

## FLXTOR TRANSFORMER

### **PLACEMENT SAFETY**

1. Move only with the appropriate equipment
2. Stay away from overhead power lines when moving equipment. Electrocutation can occur without direct contact.
3. Be familiar with machine hazard area. If anyone enters hazard areas, shut down machine immediately. Clear the area before restarting.
4. Operate the equipment on level ground free of debris. Anchor the equipment to prevent tipping or upending.



**WARNING**

Before placement of the equipment, be sure that ground is reasonably level. The equipment may topple or work improperly if the ground is too uneven, damaging the equipment and/or causing personal injury.

### **MAINTENANCE SAFETY**

1. Review the operator's manual and all safety items before working with, maintaining or operating the equipment.
2. Place all controls in neutral or off, stop motors, disable power source, and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
3. Follow good shop practices:  
Keep service area clean and dry.  
Be sure electrical outlets and tools are properly grounded.  
Use adequate light for the job at hand.
4. Keep hands, feet, hair and clothing away from all moving and/or rotating parts.
5. Clear the area of bystanders, especially children, when carrying out any maintenance and repairs or making any adjustments.
6. Before resuming work, install and secure all guards when maintenance work is completed.
7. Keep safety labels clean. Replace any sign that is damaged or not clearly visible.



### **SAFETY LABELS**

1. Keep safety labels clean and legible at all times.
2. Replace safety labels that are missing or have become illegible.
3. Replaced parts that displayed a safety label should also display the current label.
4. Replacement safety labels are available. Contact USC at (785) 431-7900.

**How to Install Safety Labels:**

- Be sure that the installation area is clean and dry.
- Be sure temperature is above 50°F (10°C).
- Decide on the exact position before you remove the backing paper.
- Remove the smallest portion of the split backing paper.
- Align the sign over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the sign in place.
- Small air pockets can be pierced with a pin and smoothed out using the piece of sign backing paper.



Part # 09-02-0001



Part # 09-02-0011



Part # 09-02-0007



Part # 09-02-0006

**SECTION  
B**

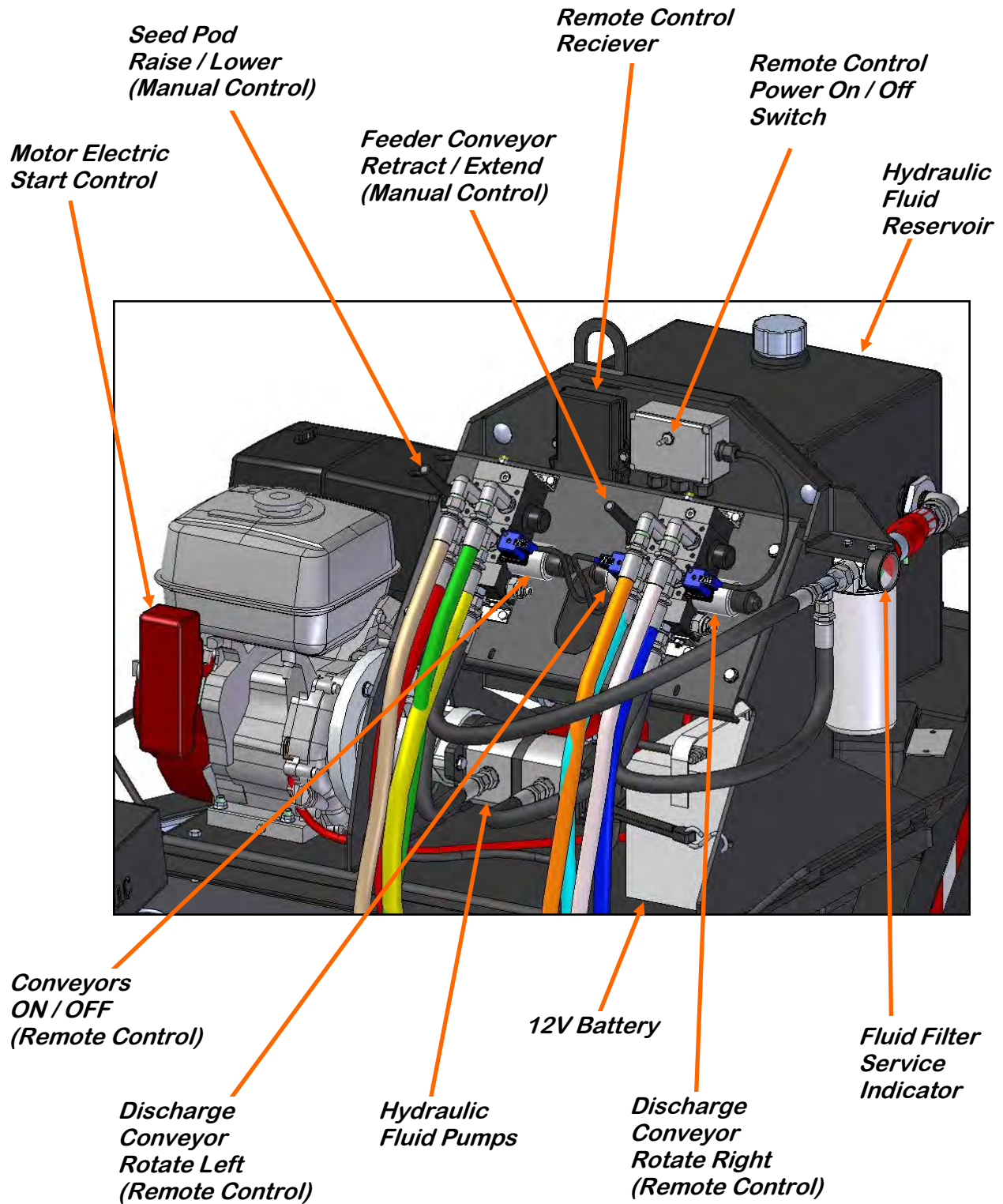
**MECHANICAL OPERATION**

**TRANSFORMER OVERVIEW**





**TRANSFORMER CONTROLS OVERVIEW**



## PRE-OPERATION CHECKLIST

Efficient and safe operation of the Transformer seed tender requires that each operator reads and understands the operating procedures and all related safety precautions outlined in this section. It is important for both the personal safety and maintaining the good mechanical condition of the seed tender that this checklist is followed.

Before operating the seed tender and each time thereafter, the following areas should be checked off:

1. Service the machine per the schedule outlined in Section D, Maintenance (see page 25).
2. Make sure the battery is full charged.
3. Check that the access panel on the discharge conveyor is in place and properly fastened.
4. Check worksite. Clean up working area to prevent slipping or tripping.
5. Check that hydraulic fittings are secure and not leaking hydraulic fluid.
6. Check that drive belt and conveying belt are not frayed or damaged and that they are properly adjusted and aligned.

## TRANSFORMER SET-UP

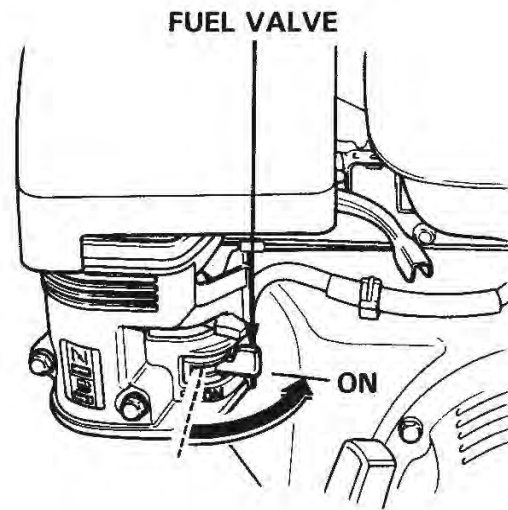
The following steps outline the initial set-up of your Transformer:

1. Clear the area of bystanders, especially small children before starting.
2. Attach the Transformer to an appropriate towing vehicle. Make sure that the safety cables are attached to the tow vehicle and the electric hook-up is fully engaged.
3. Check running lights, brake lights and turn signals to be sure they are all functioning properly.
4. Remove the wheel chocks. The front and rear wheels should be chocked any time the Transformer is not attached to a tow vehicle.
5. Make sure the discharge conveyor is in the center position and the safety pin on the left side is engaged. The machine must never be transported with the conveyor in any other position.
6. Be sure there is enough clearance from overhead obstructions and power lines or other equipment when moving the Transformer at any time.
7. Slowly back the Transformer under the 350U seed pod until the frame makes contact with the stops located on either side next to the seed pod front cross member cradle.
8. Start the engine. After it is warmed up, engage the manual hydraulic lift lever to raise the seed pod. Stop when the seed pod legs are high enough to rotate and secure for transportation.



**STARTING ENGINE**

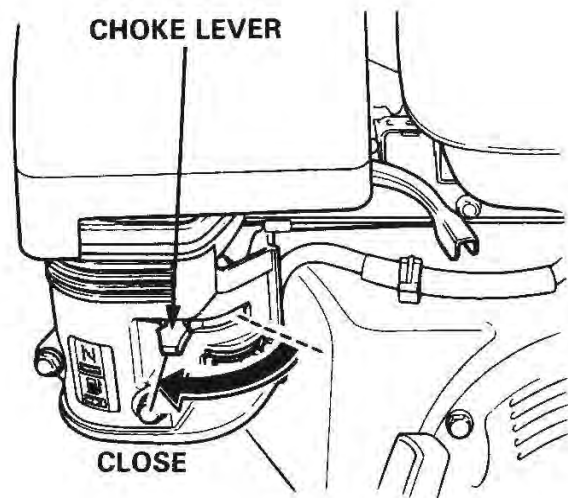
1. Turn the fuel Valve to the ON position.



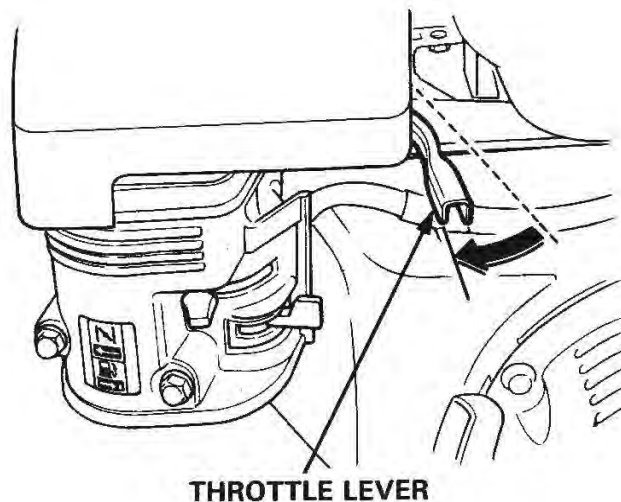
2. Move the choke lever to the CLOSED position.

**NOTICE**

The choke may not be needed if the engine is warm or the air temperature is high.



3. Move the throttle lever slightly to the left



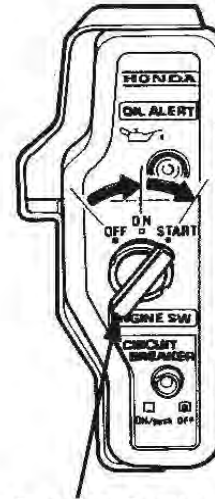
**STARTING ENGINE**

- 4. To use the electric start (QAE Type), turn the engine switch to the START position and hold it there until the engine starts.

**NOTICE**

Do not use the electric starter for more than 5 seconds or starter motor damage may occur. If the engine fails to start, release the switch and wait 10 seconds before operating the starter again.

When the engine starts, allow the engine switch to return to the ON position



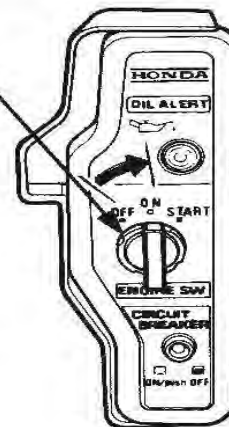
**ENGINE SWITCH  
(QAE type)**

- 5. To start manually, turn the engine switch to the ON position. Pull the starter grip lightly until resistance is felt, then pull to start.

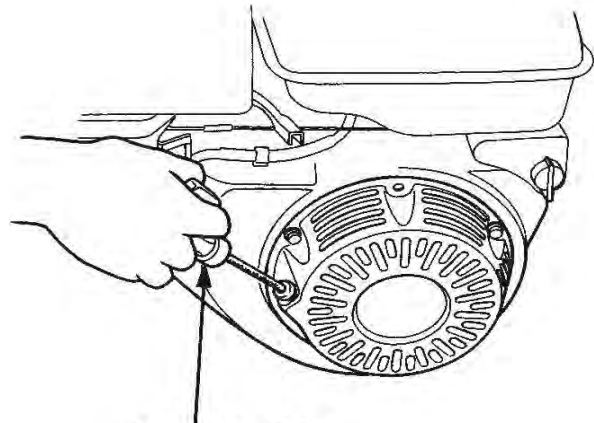
**NOTICE**

Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.

**ENGINE SWITCH**



**(QAE type)**

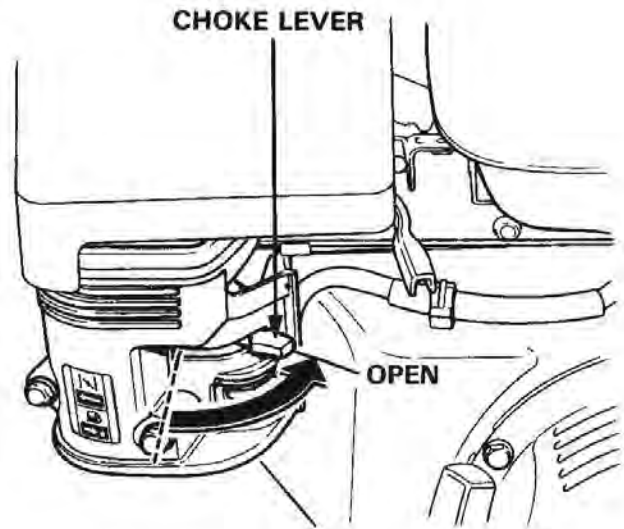


**STARTER GRIP**

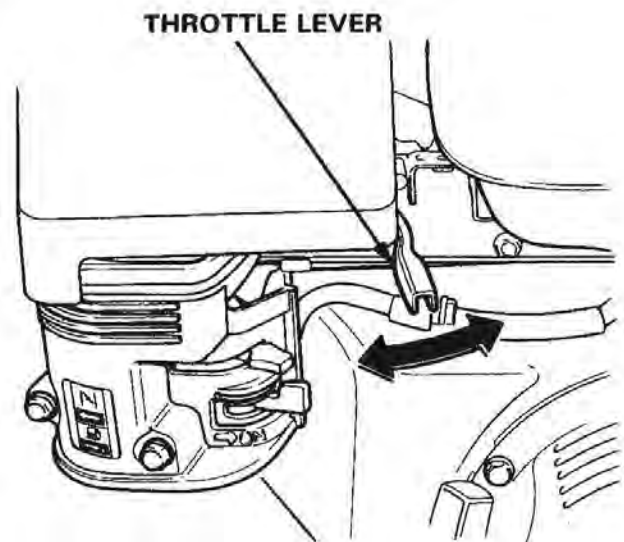
## FLXTOR TRANSFORMER

### OPERATING ENGINE

1. As the engine warms up, gradually move the choke lever to the OPEN position.



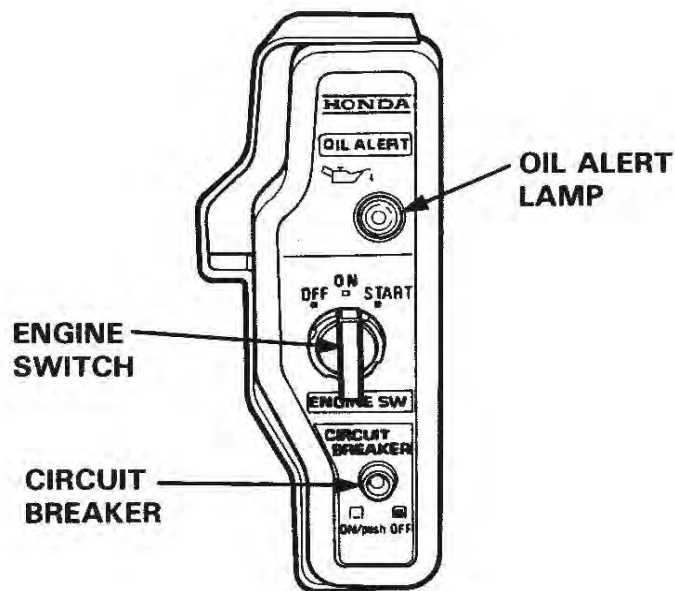
2. Position the throttle lever for the desired engine speed.



## OIL ALERT SYSTEM

The Oil Alert system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase can fall below a safe limit, the Oil Alert system will automatically shut down the engine ( the engine switch will remain in the ON position).

If the Oil Alert system shuts down the engine, the Oil Alert lamp will flash when you operate the starter, and the engine will not run. If this occurs add engine oil.



(QAE type)

## CIRCUIT BREAKER (QAE type)

The circuit breaker protects the battery charging circuit. A short circuit or a battery connected in reverse polarity will trip the circuit breaker.

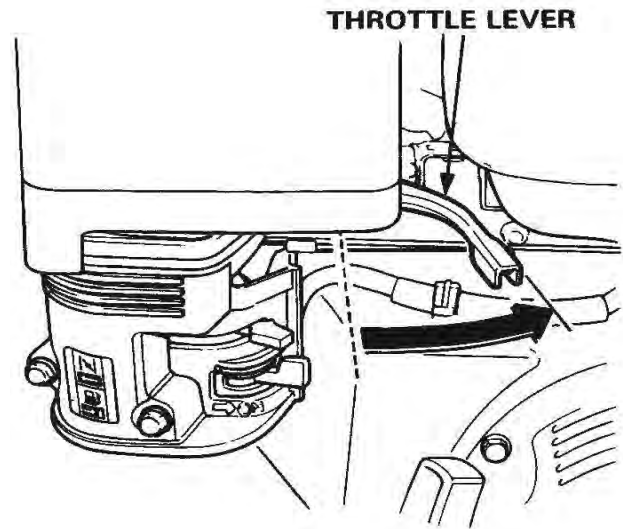
The green indicator inside the circuit breaker will pop out to show that the circuit breaker has switched off. If this occurs, determine the cause of the problem and correct it before resetting the circuit breaker.

Push the circuit breaker button to reset.

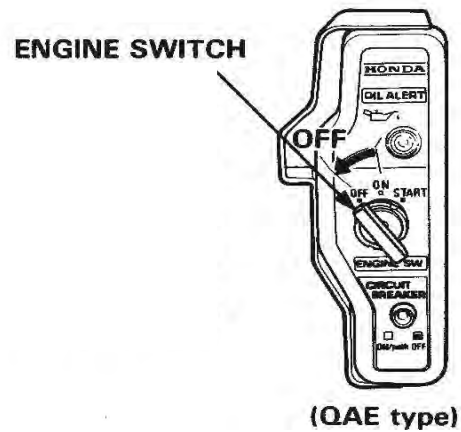
**STOPPING ENGINE**

To stop the engine in an emergency, turn the engine switch to the OFF position. Under normal conditions use the following procedure.

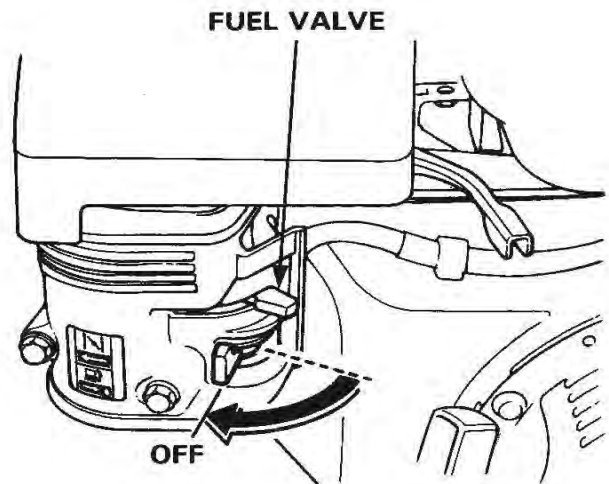
1. Move the throttle lever fully to the right.



2. Turn the engine switch to the OFF position.



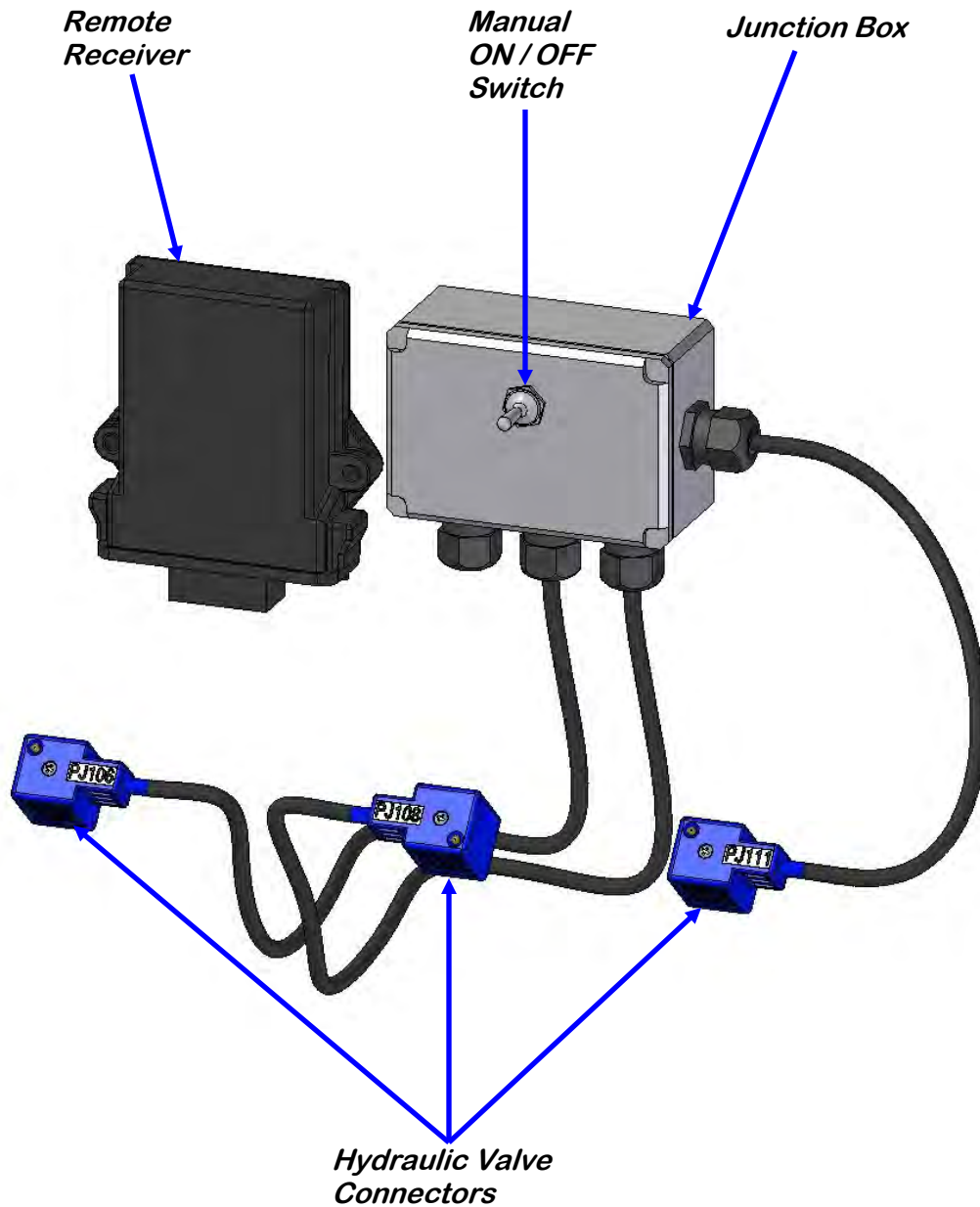
3. Turn the fuel valve to the OFF position.





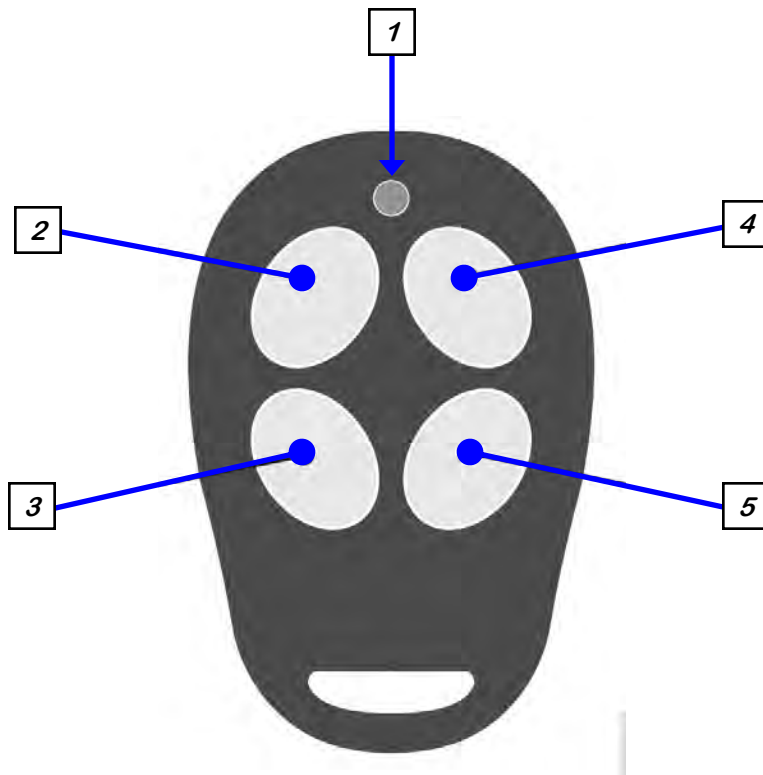
**REMOTE CONTROL SYSTEM**

The wireless remote system consists of a transmitter, receiver and a junction box with a manual power ON /OFF switch. The junction box connects the receiver to the electrically controlled hydraulic valves. The manual power switch must be in the ON position for the remote system to operate.





**REMOTE CONTROL OPERATION**



**1. SIGNAL CONFIRMATION LED:** During standard operation, to confirm the receiver is picking up a signal from the transmitter, the receiver will respond to keypad inputs by illuminating the LED.

**2. CONVEYOR ROTATE LEFT BUTTON:** Pressing this button will rotate the discharge conveyor to the left side of the seed tender.

**3. CONVEYOR ON BUTTON:** Pressing this button will turn both the feeder conveyor and the discharge conveyor on.

**4. CONVEYOR ROTATE RIGHT BUTTON:** Pressing this button will rotate the discharge conveyor to the right side of the seed tender.

**5. CONVEYOR OFF BUTTON:** Pressing this button will turn both the seed pod conveyor and the Discharge Conveyor off.

## **BASIC SYSTEM OPERATION**

1. Clear the area of bystanders, especially small children before starting.
2. Complete the pre-operation checklist and set - up (see page 14).
3. Move the Transformer in position. Make sure it is placed on a reasonably level area.
4. Start the engine. As the engine warms up, gradually move the choke lever to the OPEN position.
5. Remove the pin from the base of the discharge conveyor.
6. Place the remote system switch to the ON position.
7. Position the throttle lever for full power and open the choke.

### **NOTICE**

If operating the equipment in cold temperatures, run the engine long enough to heat up the hydraulic fluid so that all of the motors and lifting mechanisms function properly.

8. Using the manual control, extend the feeder conveyor until it is fully extended.
9. Using the remote control, move the discharge conveyor to the left or right to position it above the planter or other receptacle you want to unload seed into.
10. Press the conveyor ON button on the remote control.
11. Open the slide gate on the seed pod to begin unloading the seed.
12. Use the remote control to fill all the receptacles needed.
13. When the offload is complete, turn off the conveyors, move the Discharge conveyor back to the middle position and re-insert the retaining pin.
14. Retract the feeder conveyor. You are now ready to move on to you next stop or return to your supplier for more seed.

# TROUBLESHOOTING

## SECTION C

Below is a table describing the most frequent problems and solutions with the USC Flixtor Transformer . For further assistance, contact the USC Service department at (785) 431-7900.

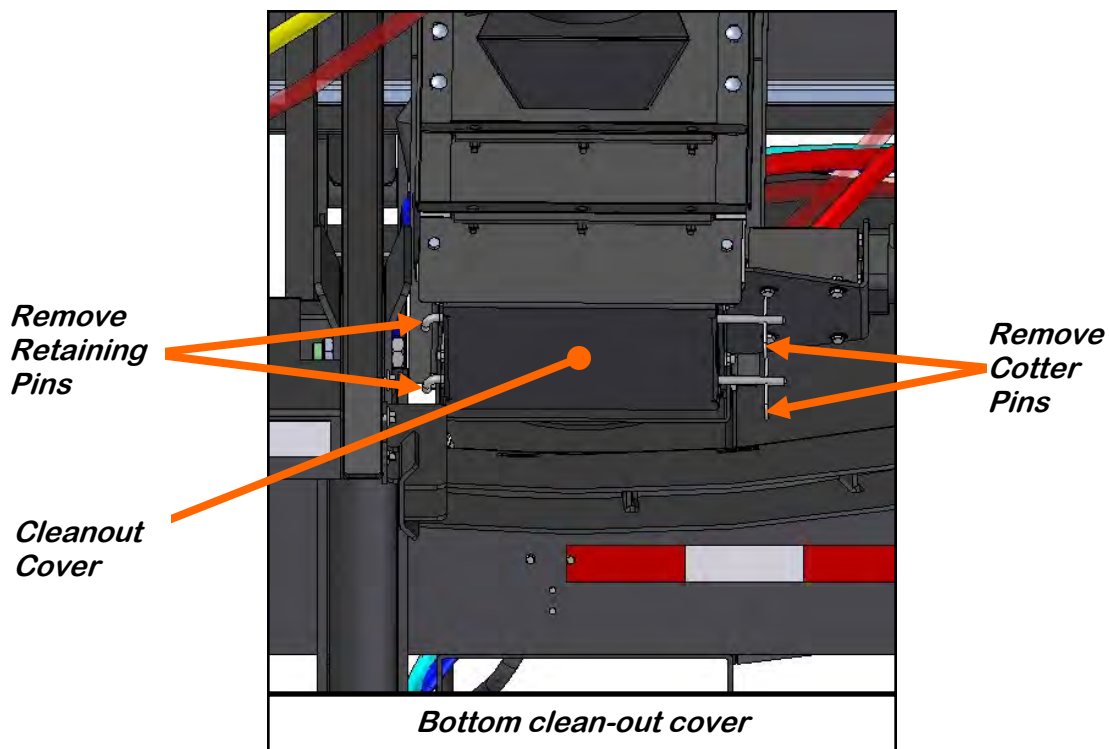
Problem	Possible Cause	Solution
Engine will not start.	<ol style="list-style-type: none"> <li>1. Battery dead.</li> <li>2. Fuel valve is closed.</li> <li>3. Fuel Tank is empty.</li> <li>4. Engine is already warm and the choke is closed.</li> </ol>	<ol style="list-style-type: none"> <li>1. Use the manual pull start.</li> <li>2. Open fuel valve.</li> <li>3. Fill fuel tank.</li> <li>4. Open choke.</li> </ol>
Remote control will not work.	<ol style="list-style-type: none"> <li>1. System main switch is in the OFF position.</li> <li>2. Battery in the remote key FOB is dead.</li> </ol>	<ol style="list-style-type: none"> <li>1. Place the main switch in the ON position.</li> <li>2. Replace battery (Coin cell #CR2032).</li> </ol>
Conveyor will not run.	<ol style="list-style-type: none"> <li>1. Conveying belt loose.</li> <li>2. Hydraulic line is leaking.</li> <li>3. Not enough fluid in system.</li> </ol>	<ol style="list-style-type: none"> <li>1. Tighten and align belt.</li> <li>2. Repair or replace hose.</li> <li>3. Check gauge on front of reservoir. Add fluid.</li> </ol>
Belt edge fraying.	<ol style="list-style-type: none"> <li>1. Belt not aligned.</li> </ol>	<ol style="list-style-type: none"> <li>1. Align and tension belt.</li> </ol>
Low conveying capacity.	<ol style="list-style-type: none"> <li>1. Engine throttle not set to full power.</li> <li>2. Conveyor belt slipping.</li> </ol>	<ol style="list-style-type: none"> <li>1. Set engine throttle to full power.</li> <li>2. Tighten belt.</li> </ol>
Discharge conveyor will not rotate right or left.	<ol style="list-style-type: none"> <li>1. Hydraulic line is leaking.</li> <li>2. Not enough fluid in system.</li> <li>3. Object is obstructing travel.</li> <li>4. Safety pin is still in place.</li> </ol>	<ol style="list-style-type: none"> <li>1. Repair or replace hose.</li> <li>2. Check gauge on front of reservoir. Add fluid.</li> <li>3. Remove obstruction.</li> <li>4. Remove safety pin.</li> </ol>
Seed pod will not lift.	<ol style="list-style-type: none"> <li>1. Hydraulic line is leaking.</li> <li>2. Not enough fluid in system.</li> <li>3. Object is obstructing travel.</li> </ol>	<ol style="list-style-type: none"> <li>1. Repair or replace hose.</li> <li>2. Check gauge on front of reservoir. Add fluid.</li> <li>3. Remove obstruction.</li> </ol>

## FLXTOR TRANSFORMER

### UNPLUGGING

In unusual moisture or material conditions, the discharge conveyor can plug. When unplugging, follow this procedure:

1. Rotate the conveyor to the far right or left for easier access to the clean out cover.
2. Turn the motor OFF.
3. Remove the two cotter pins.
4. Remove clean out cover retaining pins and cover.
5. Remove plugged material.
6. Re-install cover, retaining pins and cotter pins.



**MAINTENANCE****SECTION  
D**

Proper maintenance of the Flxtor Transformer is critical for peak performance, reliability and accuracy of this system. The following is a guideline for the type of maintenance and servicing that should be performed on this unit. Your environment and uses may require additional maintenance and service beyond this list to assure a reliable and safe unit. The operator of this unit has ultimate responsibility to identify areas of concern and rectify them before they become a hazard or safety issue. There is no substitute for a trained, alert operator.



Do not put this unit into operation with any questionably maintained parts. Poor performance or a hazard may occur.

**FLUIDS AND LUBRICANTS****Grease**

Use an SAE multipurpose high temperature grease with extreme pressure (EP) performance. Also acceptable is an SAE multipurpose lithium-based grease.

**Hydraulic Oil**

Use DTE 25 hydraulic oil for Electric Powered Hydraulic Pack.

**Storing Lubricants**

Your machine can operate at top efficiency only if clean lubricants are used. Use clean containers to handle all lubricants. Store them in an area protected from dust, moisture and other contaminants.

**GREASING**

Use a Maintenance Checklist to keep record of all scheduled maintenance.

1. Use a hand-held grease gun for all greasing.
2. Wipe grease fitting with a clean cloth before greasing to avoid injecting dirt and grit.
3. Replace and repair broken fittings immediately.

**NOTICE**

If fittings will not take grease, remove and clean thoroughly. Also clean lubricant passageway. Replace fitting if necessary.

**For all maintenance information for the 13 HP Honda GX390 motor, refer to the maintenance section on page 20 of the Honda motor manual provided.**

## FLXTOR TRANSFORMER

### **SERVICING INTERVALS**

#### **Every 40 hours or Weekly**

##### Feeder Conveyor:

1. Grease conveyor bearings.
  - Two take up tensional bearings on the tail end in the adjustment assembly right and left.
  - Two bolt flanged bearings on the drive roller assembly right and left.
2. Remove guard and check the chain tension. Adjust if required, lubricate chain and re-install guard.

##### Discharge Conveyor:

1. Grease conveyor bearings.
  - Remove guard. Two bolt flanged bearings on the drive roller assembly right and left.
  - Two bolt flanged bearings on the tail roller assembly right and left.
2. Adjust pressure plate on rotation drive sprocket if required, lubricate chain.

##### Hydraulic System:

1. Check gauge on hydraulic fluid filter. If operational pressure in the filter is registering in the red zone on the gauge, replace filter (right).



2. Check fluid level window on the front of the fluid reservoir (left). It should show fluid half way in the window cold. If it does not, add fluid.



**Every 200 hours or Annually**

1. Repack wheel bearings.
2. Wash machine.
3. Replace remote coin cell battery #CR2032.

---

**FEEDER CONVEYOR INTAKE TO SEED POD ADJUSTMENT**

The feeder conveyor inlet must be very close to the seed pod discharge chute to prevent seed leakage. If seed is leaking or the inlet is making direct contact with the seed pod, the conveyor height needs to be adjusted.

1. Loosen the jam nut on the hydraulic piston front mounting hardware on the inside of the frame cross member.
2. To raise the inlet, loosen the adjustment bolt. To lower the inlet, tighten the adjustment bolt.
3. Extend and retract the conveyor several times as you continue to adjust the nut until the inlet is at the proper height.
4. Once the adjustment is complete, tighten the jam nut.



*Use the adjustment nut to raise or lower the feeder conveyor seed inlet*

*Tighten jam nut after adjustment*

## **FEEDER CONVEYOR BELT TENSION AND ALIGNMENT - TAIL END**

A contoured crescent belt is used to convey material from the seed pod to the discharge conveyor. The tension and alignment of the belt should be checked weekly, or more often if required, to be sure that it does not slip or run to one side. A properly tensioned belt will not slip when it is operating. Operating the belt with less slippage will increase the belt life and causes less stress on bearings, pulleys and shafts.

### **WARNING**

Although it is acceptable to align the belt from either the Head or the Tail end. Tightening the belt may only be done from the Tail end of the conveyor

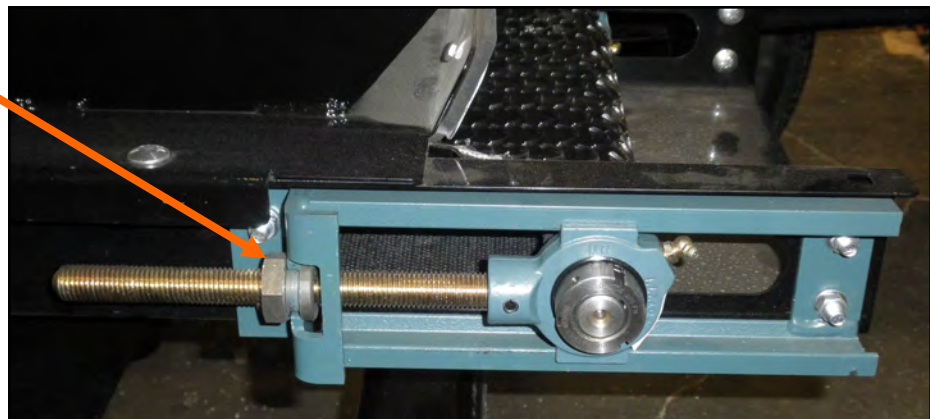
To maintain the belt, follow this procedure:

### **NOTICE**

Place all controls in neutral or off and stop motor.

1. Use the take-up bolts located at the tail to set the tension of the belting.
2. If the belt needs to be tightened to prevent slippage, use the take-up adjustments on the tail end only.
3. The belt is tightened by turning both take-up adjustments an **equal** number of turns.
4. Use the drive roller to check the alignment. The belt should be centered.
5. Turn the belt 1/2 revolution when the belt is new and check the drive and tail roller. If out of alignment, the belt will move to the loose side. Use the bearing position bolt to set the position.
6. Run and check again. Check frequently during the first few minutes of operation and then several times during the first 10 hours. The belt normally seats itself during the first 10 hours of operation and can be checked weekly after that.
7. The belt is properly aligned when the belt runs in the center of the head and tail rollers.

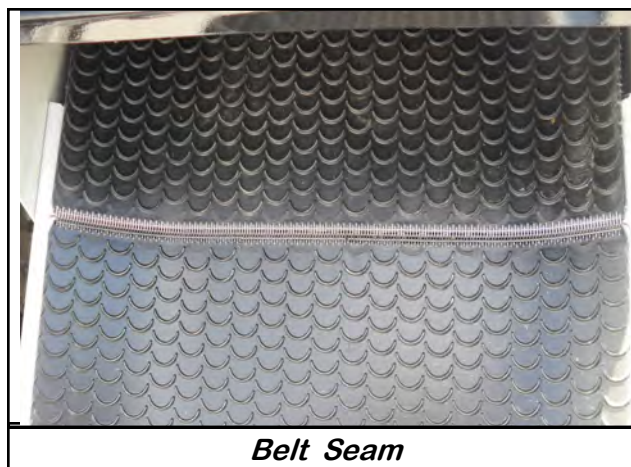
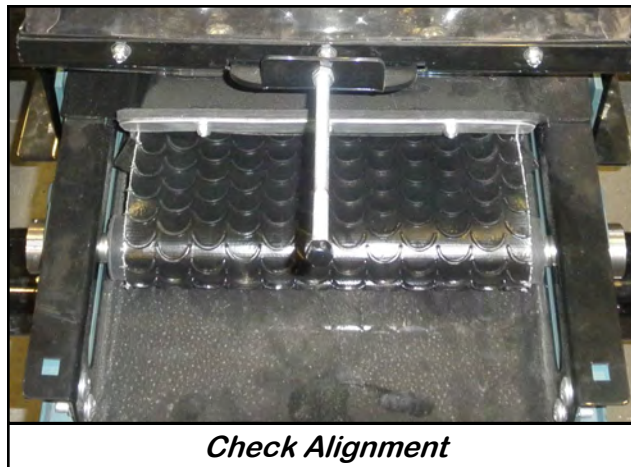
*Use this bolt to  
tighten and  
align the belt*



## FLXTOR TRANSFORMER

### **BELT REPLACEMENT**

1. Rotate the belt until the seam is visible (bottom).
2. Move the tail roller to its loosest position.
3. Pull all the slack to the seam area.
4. Remove the wire connector and open the belt.
5. Attach one end of the replacement belt to the belt end being removed.
6. Pull the old belt out and the new belt will be threaded into place.
7. Disconnect the old belt.
8. Connect the ends of the new belt together and secure.
9. Set the belt tension.
10. Check and set the belt alignment.



## DISCHARGE CONVEYOR BELT ALIGNMENT - TAIL END

To maintain the belt, follow this procedure:

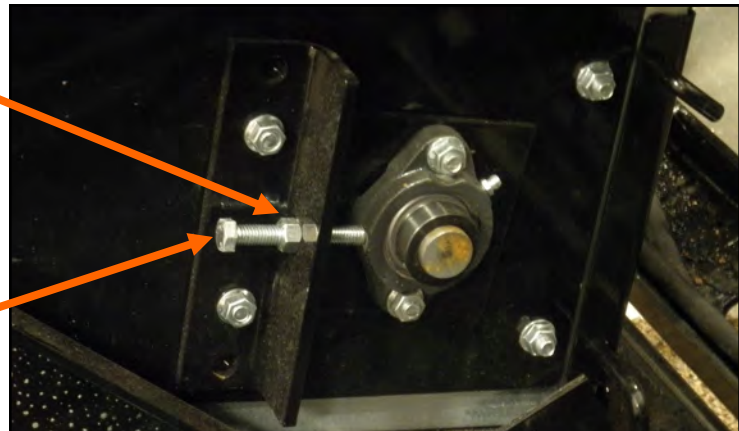
### **NOTICE**

Place all controls in neutral or off and stop motor.

1. Use the drive roller to check the alignment. The belt should be centered.
2. Turn the belt 1/2 revolution when the belt is new and check the drive and tail roller. If out of alignment, the belt will move to the loose side. Loosen the jam nut and use the bearing position bolt to set the position. Tighten jam nut.
3. Run and check again. Check frequently during the first few minutes of operation and then several times during the first 10 hours. The belt normally seats itself during the first 10 hours of operation and can be checked weekly after that.
4. The belt is properly aligned when the belt runs in the center of the head and tail rollers.

*Loosen this jam nut before adjusting the bearing position bolt*

*Use this bolt to tighten and align the belt*

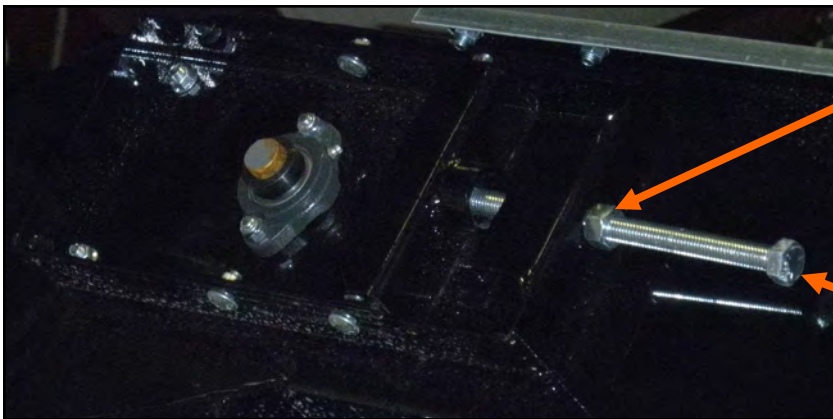


## DISCHARGE CONVEYOR BELT TENSION AND ALIGNMENT - HEAD END

1. Use the take-up bolts located at the head to set the tension of the belt.
2. If the belt needs to be tightened to prevent slippage, use the take-up adjustments on the head end.
3. The belt is tightened by turning both take-up adjustments an **equal** number of turns.
4. A misaligned belt will track toward the loose side. Set the tracking by loosening the bearing mount on the loose side of the conveyor and using the bearing position bolt to move the loose side of the head roller. Tighten the bearing mount when the belt is centered on the head roller.

**DISCHARGE CONVEYOR BELT TENSION AND ALIGNMENT - HEAD END**

5. Run the belt and check the tracking again. Loosen the side slightly again if required. Repeat the adjusting and checking procedure until the belt centers on the output end roller and remains centered when running.
6. Always repeat this aligning procedure when installing a new belt. Check frequently during the first 10 hours of operation. After 10 hours, the belt is normally seated and checking the alignment can be done less frequently.

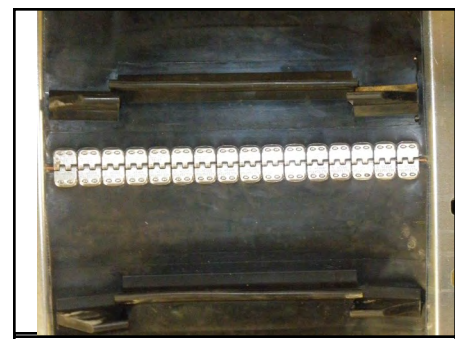


*Tighten jam nut after adjustment*

*Use this bolt to align the belt*

**BELT REPLACEMENT**

1. Rotate the belt until the seam is visible through the access door.
2. Move the head roller to its loosest position.
3. Pull all the slack to the seam area.
4. Remove the wire connector and open the belt.
5. Attach one end of the replacement belt to the belt end being removed.
6. Pull the old belt out and the new belt will be threaded into place.
7. Disconnect the old belt.
8. Connect the ends of the new belt together and secure.
9. Set the belt tension.
10. Check and set the belt alignment



*Belt Seam*



*Check Alignment*



SECTION  
E**STORAGE**

When storing the Flixtor Transformer for long periods of time, the following procedure must be followed to reduce the chance of rust, corrosion and fatigue of the conveyor. You can also use these steps when storing the machine for the winter.



A dust mask and protective rubber gloves shall be used when cleaning the machine.

1. Clear the area of bystanders, especially small children.
2. Thoroughly wash the entire machine to remove all dirt, mud, debris or residue.
3. Inspect all moving or rotating parts to see if anything has become entangled in them. Remove the entangled material.
4. Lubricate all grease fittings. Make sure that all grease cavities have been filled with grease to remove any water residue from the washing. This also protects the bearing seals.
5. Touch up all paint nicks and scratches to prevent rusting.
6. Store the machine inside a protective building to keep it from being exposed to the weather. Select an area that is dry, level and free of debris. If storing outside, cover with a waterproof tarpaulin.
7. Chock the front and back wheels on both sides.
8. Unhook from towing vehicle.
9. Do not allow children to play on or around the stored machine.

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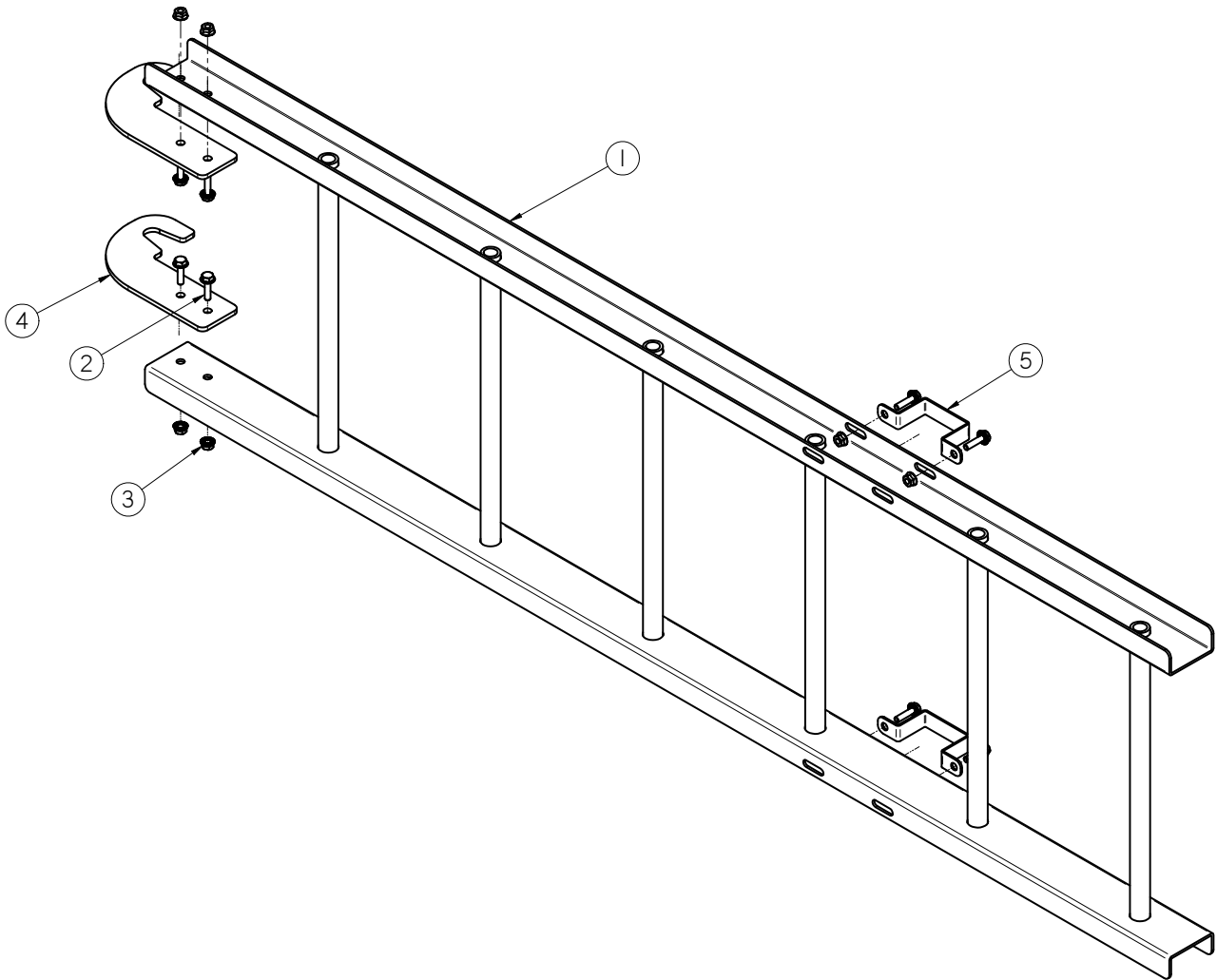
**NOTES:**



SECTION  
F-1

**MECHANICAL DRAWINGS**  
**PD350T SEED PODS**

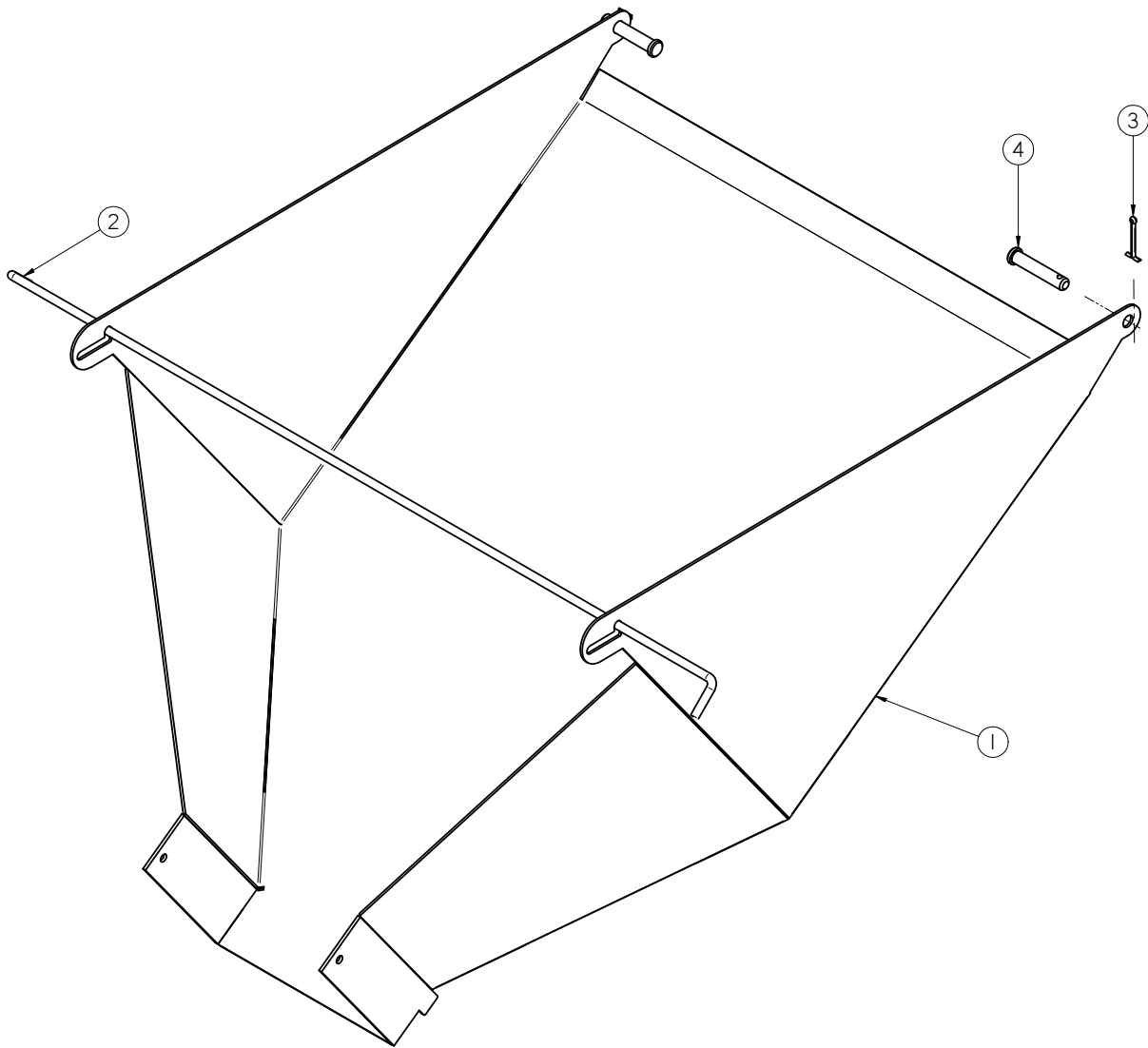
**SEED POD LADDER ASSEMBLY (13-05-0277)**



Item #	Part #	Description	Qty
1	05-03-1347	WDMT LADDER 350U POD	1
2	06-01-0189	BOLT FLG .375-16 X 1.250 ZP GR5	8
3	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	8
4	102DB8	PLT LDR HNGR SEED POD 350	2
5	102DB9	PLT LRD SUPP SEED POD 350	2

FLXTOR TRANSFORMER

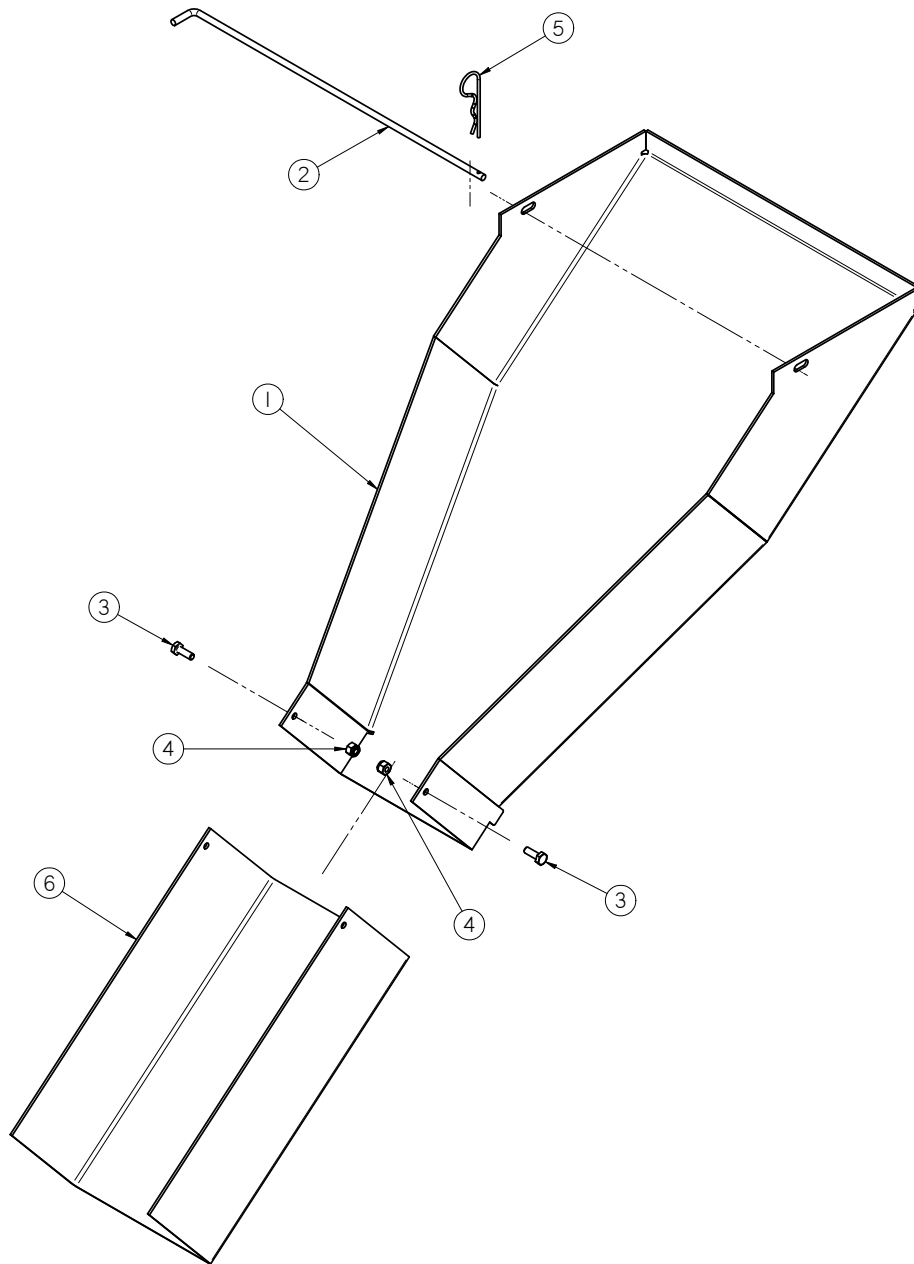
**SEED POD DISCHARGE CHUTE ASSEMBLY (05-07-0582)**



Item #	Part #	Description	Qty
1	05-07-0581	WDMT SPD DSCHG CHUTE UPPER CS	1
2	05-11-0386	PIN HOPP SELF LOCKING	1
3	06-09-0018	PIN CTRR .125 X 1.50 SS	2
4	06-09-0089	PIN CLVS .375 X 2.00 ZP	2

FLXTOR TRANSFORMER

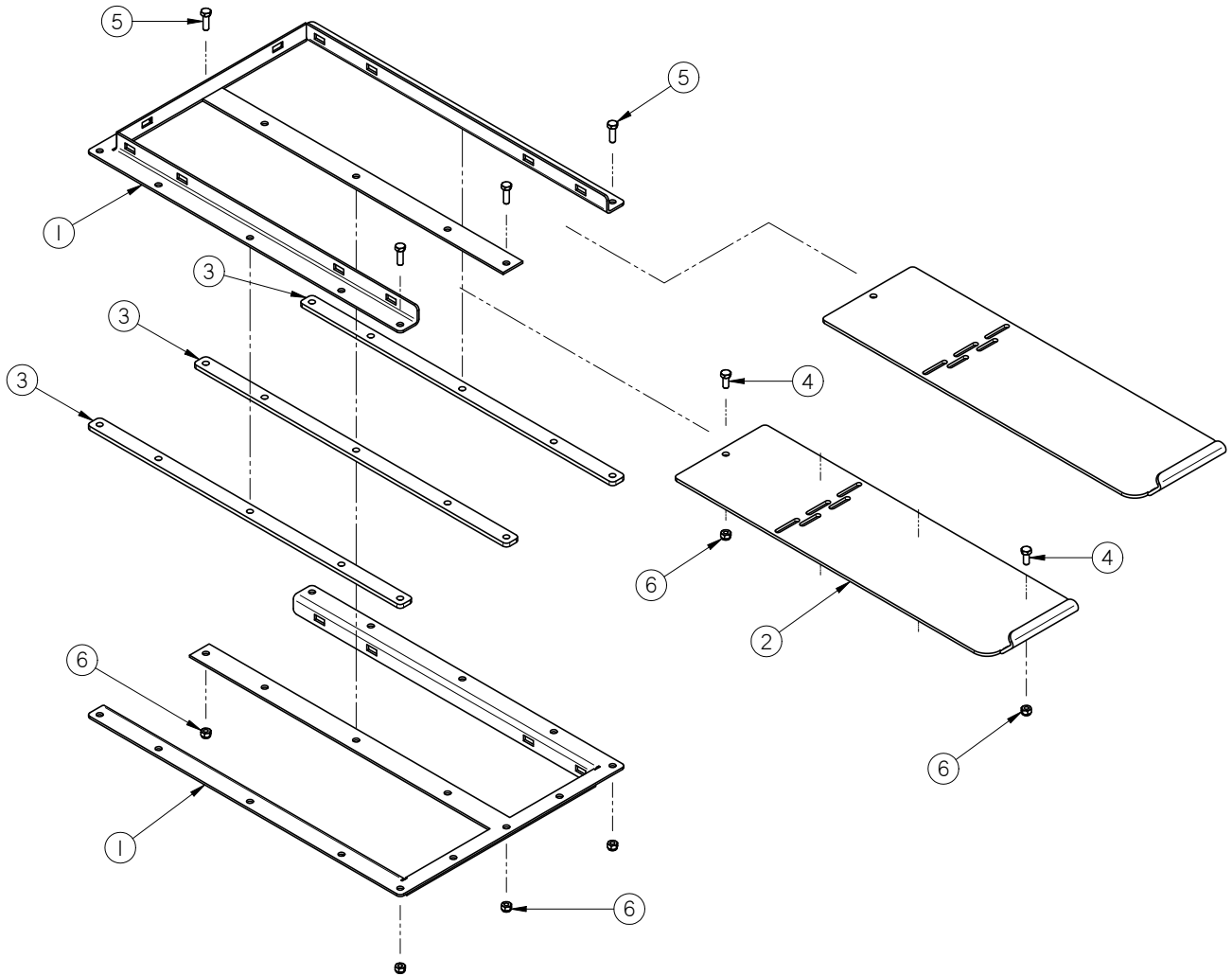
**SEED POD DISCHARGE CHUTE ASSEMBLY (05-07-0167)**



Item #	Part #	Description	Qty
1	05-07-0577	WDMT SPD DSCHG CHUTE UPPER CS	1
2	05-11-0160	PIN SPD DSCHG CHUTE	1
3	06-01-0006	BOLT, .250-20 X .75 UNC ZP GRADE 5	2
4	06-03-0001	NUT,LOCK, .250-20 ZP G5 NYLON INSERT	2
5	06-09-0029	CLIP, .105 HAIR PIN	1
6	1027AF	CHUTE	1

FLXTOR TRANSFORMER

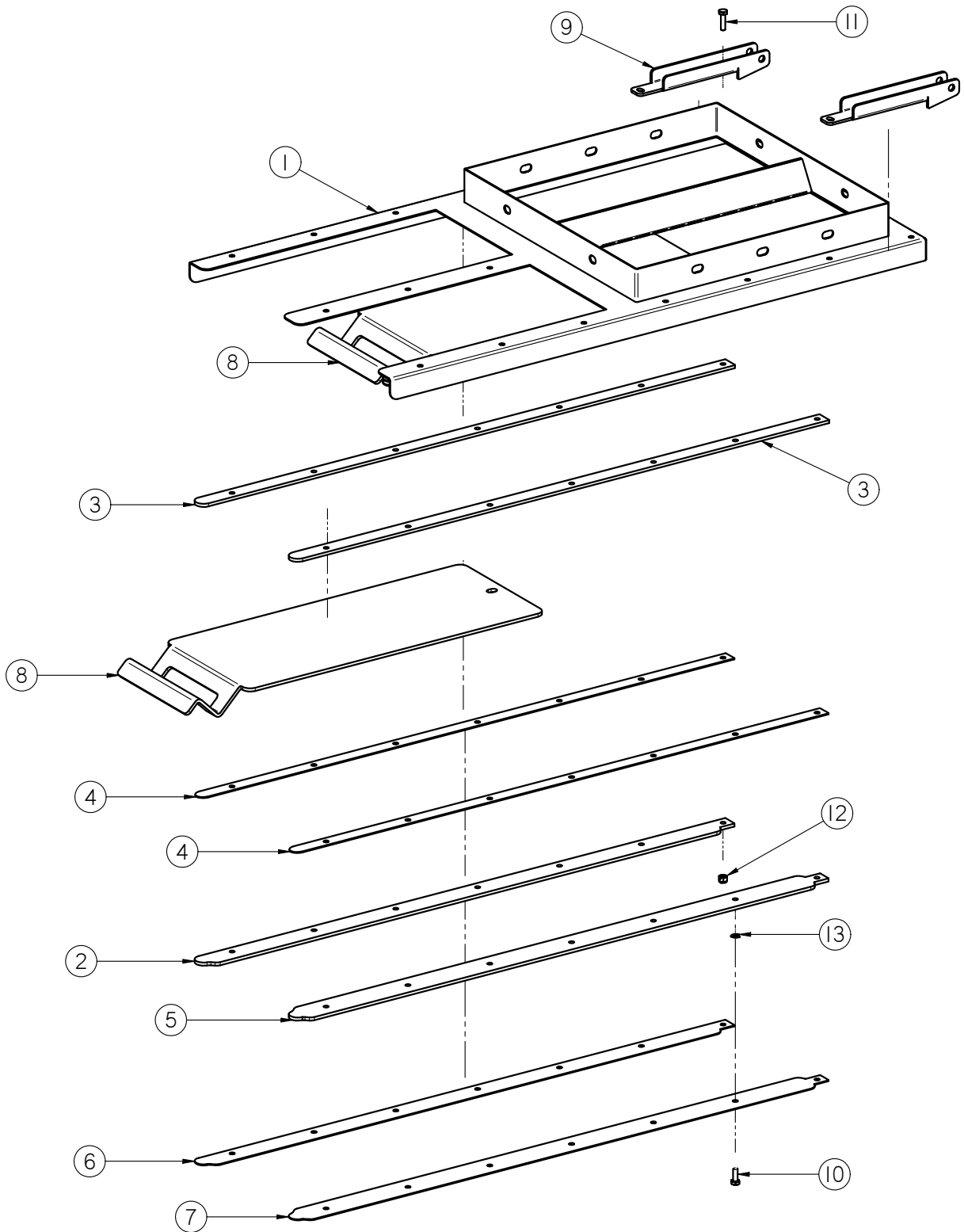
**SEED POD DOUBLE SLIDE GATE ASSEMBLY (12-04-0006)**



Item #	Part #	Description	Qty
1	05-03-0384	WDMT SLIDE GATE FRM	2
2	05-10-2339	PLT SLIDE GATE DOOR	2
3	05-10-2340	PLT SLIDE GATE SPACER	3
4	06-01-0010	BOLT .313-18 X .750 ZP GR5	4
5	06-01-0012	BOLT .313-18 X 1.00 ZP GR5	15
6	06-03-0002	NUT NYL LOCK .313-18 ZP GR5	19

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**SEED POD SLIDE GATE ASSEMBLY (12-04-0026)**



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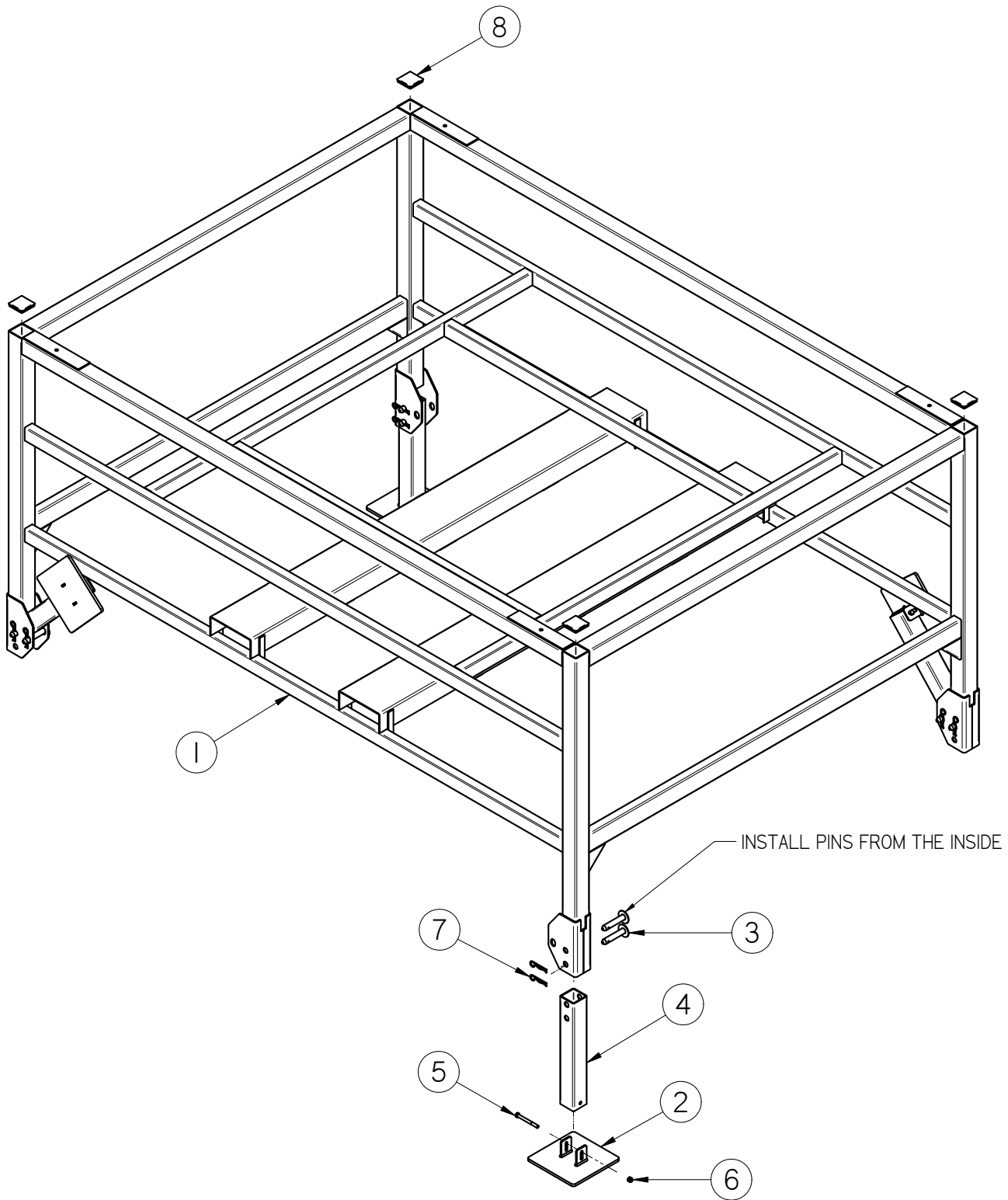
**SEED POD SLIDE GATE ASSEMBLY (12-04-0026)**

Item #	Part #	Description	Qty
1	05-03-1250	WDMT SLGT SPD SLGT	1
2	05-10-4140	PLT UHMW SPD SLGT GUIDE 3	2
3	05-10-4141	PLT UHMW SPD SLGT GUIDE 1	3
4	05-10-4142	PLT SLD RETAINER	3
5	05-10-4144	PLT UHMW SPD SLGT GUIDE 5	1
6	05-10-4145	PLT SPD SLGT GUIDE 6	2
7	05-10-4146	PLT SPD SLGT GUIDE 7	1
8	05-10-4147	PLT SPD SLGT SLIDE	2
9	05-10-4210	BRKT CHUTE HOLDER	2
10	06-01-0006	BOLT .250-20 X .750 ZP GR5	3
11	06-01-0007	BOLT, .250-20 X 1 UNC ZP GRADE 5	18
12	06-03-0001	NUT,LOCK, .250-20 ZP G5 NYLON INSERT	18
13	06-04-0001	WSHR LOCK SPLT .250 ZP	3



FLXTOR TRANSFORMER

**350 UNIT SEED POD FRAME ASSEMBLY (05-03-0897)**



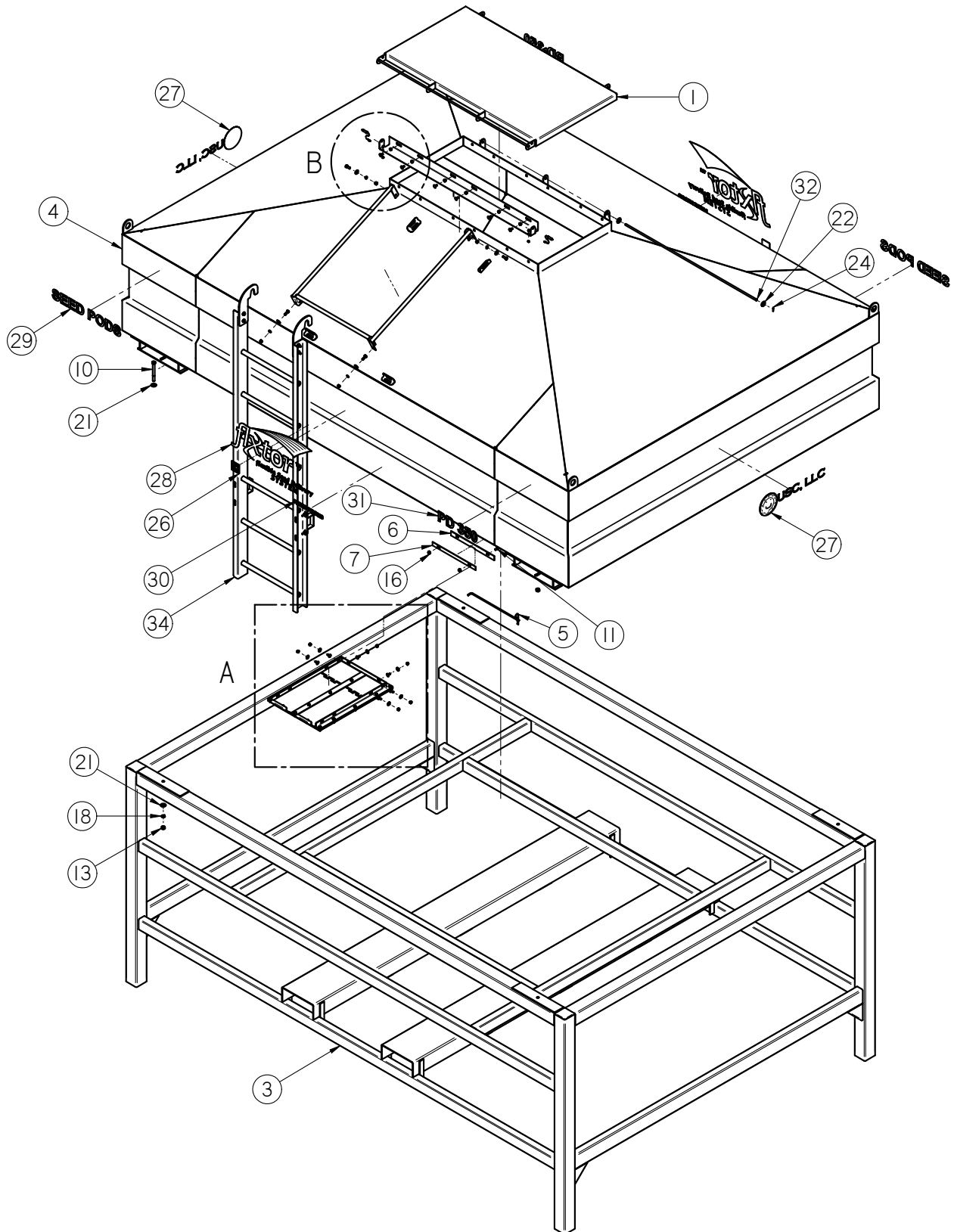
FLXTOR TRANSFORMER

**350 UNIT SEED POD FRAME ASSEMBLY (05-03-0897)**

Item #	Part #	Description	Qty
1	05-03-0894	WDMT 350BU SPD FR	1
2	05-03-1214	WDMT SPD FOOT PAD	4
3	05-03-1215	WDMT SPD FOOT PIN	8
4	05-11-0371	LEG SEED POD 350	4
5	06-01-0119	BOLT, .500-13 X 4.750" UNC ZP GRADE 5	4
6	06-03-0004	NUT NYL LOCK .500-13 ZP GR5	4
7	06-09-0078	PIN CLIP HITCH 4.00 #8 .177OD ZP	8
8	06-10-0031	PLUG POLYE RIBBED 3.5 X 3.5 TBG	4

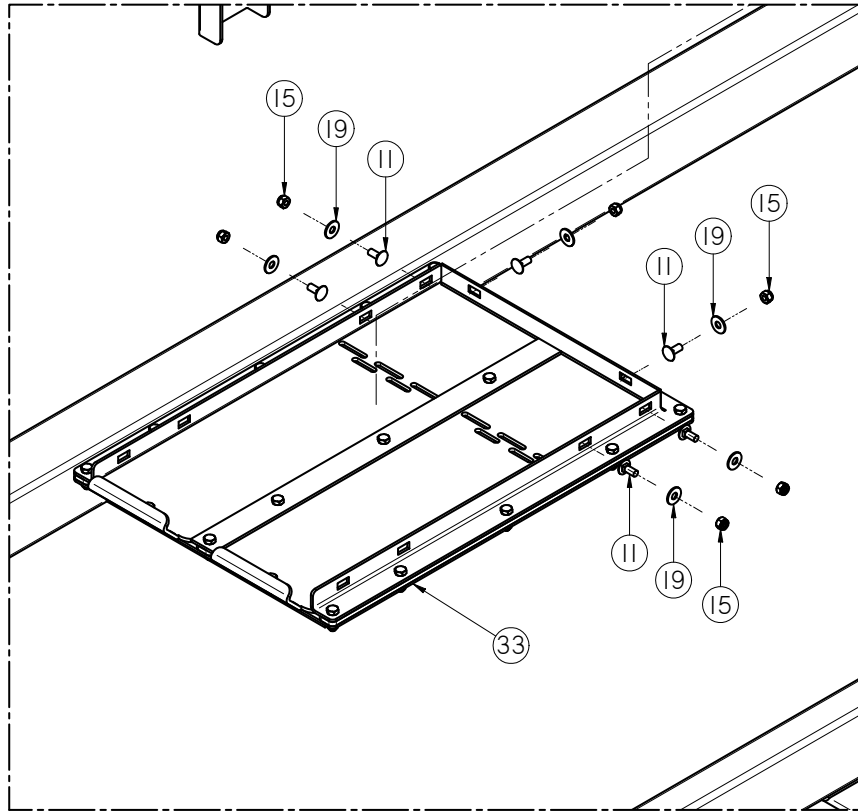
FLXTOR TRANSFORMER

**350 UNIT SEED POD TOP ASSEMBLY (13-14-0022)**

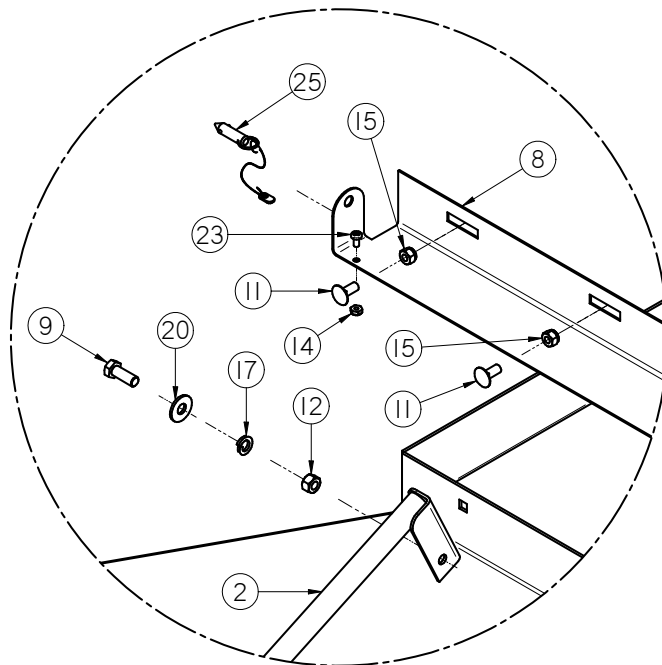


FLXTOR TRANSFORMER

**350 UNIT SEED POD TOP ASSEMBLY (13-14-0022)**



DETAIL A



DETAIL B

FLXTOR TRANSFORMER

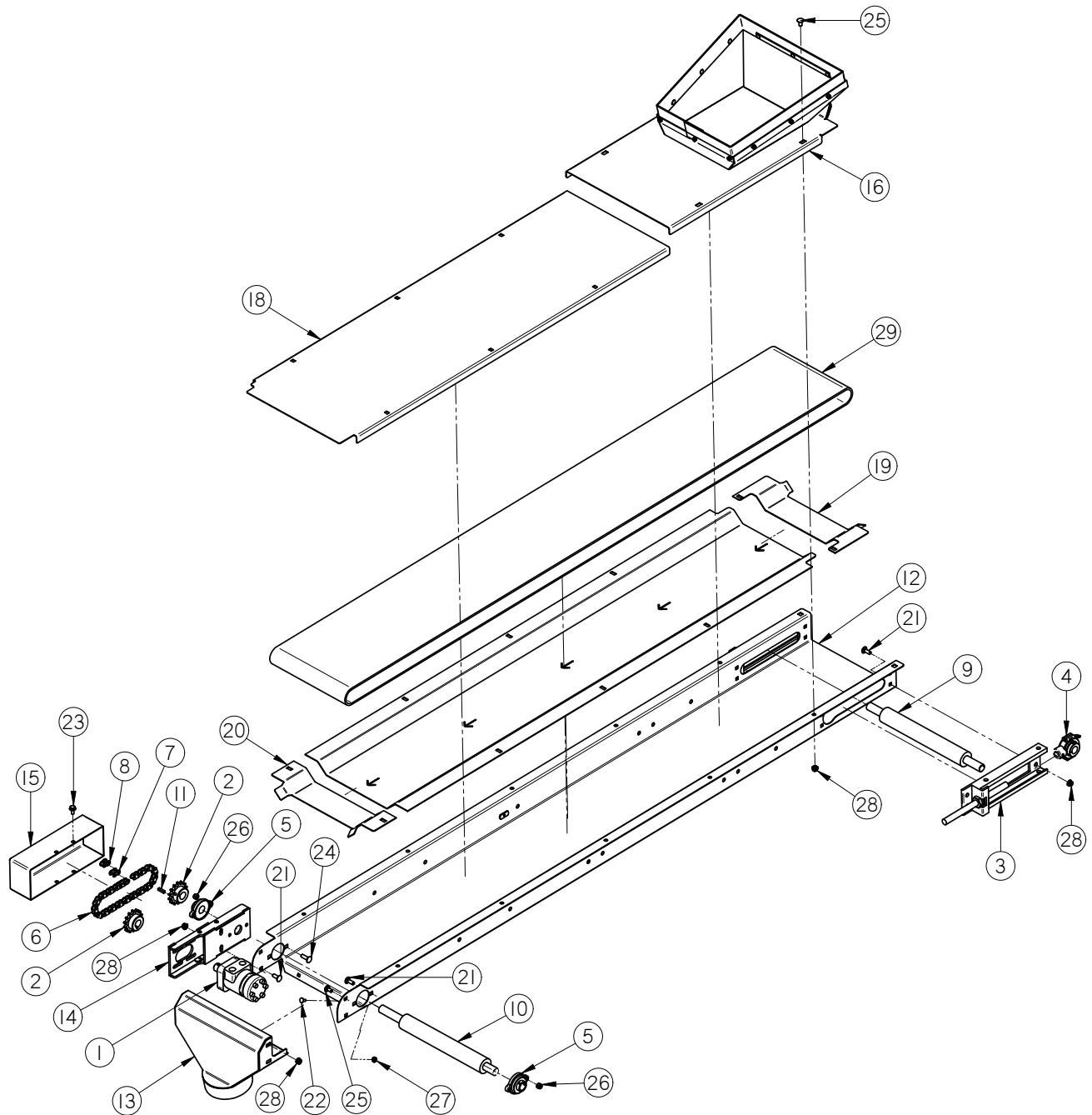
**350 UNIT SEED POD TOP ASSEMBLY (13-14-0022)**

Item #	Part #	Description	Qty
1	05-03-0470	WDMT LID ASSY SEED POD 350BU	1
2	05-03-0527	WDMT LADDER SUPPORT	1
3	05-03-0897	ASSY 350BU SPD FR COMPLETE	1
4	05-03-0904	WDMT SPD 350BU HOPP INSET SIDES	1
5	05-07-0167	ASSY SPD DSCHG CHUTE CS	1
6	05-10-2297	PLT SEAL TAB 1 SEED POD	1
7	05-10-2298	PLT SEAL TAB 2 SEED POD	1
8	05-10-2785	BRKT LID LOCK SEED POD 350BU	1
9	06-01-0016	BOLT .375-16 X 1.00 ZP GR5	4
10	06-01-0119	BOLT, .500-13 X 5.00" UNC ZP GRADE 5	4
11	06-01-0171	BOLT CRG .3125-18X.750 ZP SHORT NECK	14
12	06-02-0003	NUT FULL .375-16 ZP GR5	4
13	06-02-0004	NUT FULL .500-13 ZP GR5	4
14	06-02-0043	NUT,LOCK, #10-24 ZP NYLON INSERT	2
15	06-03-0002	NUT NYL LOCK .313-18 ZP GR5	12
16	06-03-0019	NUT, FLG .3125-18 UNC ZP GRADE 5	2
17	06-04-0003	WSHR LOCK SPLT .375 ZP	4
18	06-04-0004	WSHR LOCK SPLT .500 ZP	4
19	06-05-0003	WSHR FLAT .313 ZP	6
20	06-05-0004	WSHR FLAT .375 ZP	4
21	06-05-0005	WSHR FLAT .500 ZP	8
22	06-05-0020	WASHER, .4375 FLAT ZP	2
23	06-06-0029	SCRW MACH 10-24 X .375 PHLP PHD ZP	2
24	06-09-0013	1/8" X 3/4" COTTER PIN	2
25	06-09-0040	PIN MMC 94975A524 3/8" DIA 4" USABLE	2
26	09-01-0003	ATWK LBL MADE IN USA YEL 2.50X2.50	2
27	09-01-0043	ATWL LBL USC, LLC 6" X 19" PRO-CUT	2
28	09-01-0057	LBL ATWK FLEXTOR 16 X 28.22	2
29	09-01-0060	LBL ATWK SEED PODS	2
30	09-01-0064	LBL ATWK PAT PEND	2
31	09-01-0084	LBL ATWK PD350	2
32	100D95	HINGE	1
33	12-04-0006	ASSY SEED POD DOUBLE SLIDE GATE	1
34	13-05-0277	ASSY SEED POD LDR	1

# MECHANICAL DRAWINGS TRANSFORMER PD9020

## SECTION F-3

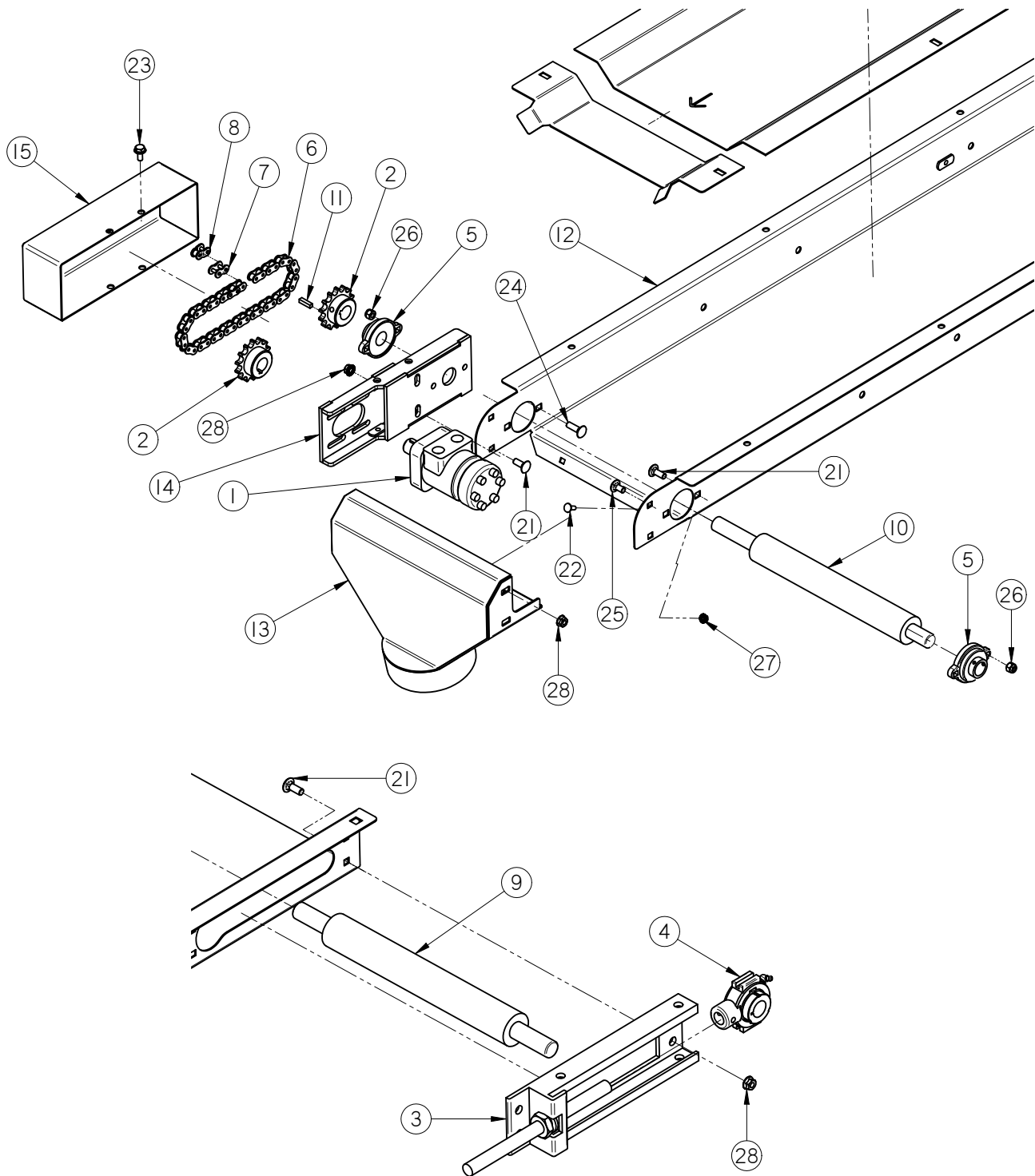
### FEEDER CONVEYOR ASSEMBLY (13-08-0022)





FLXTOR TRANSFORMER

**FEEDER CONVEYOR ASSEMBLY (13-08-0022)**



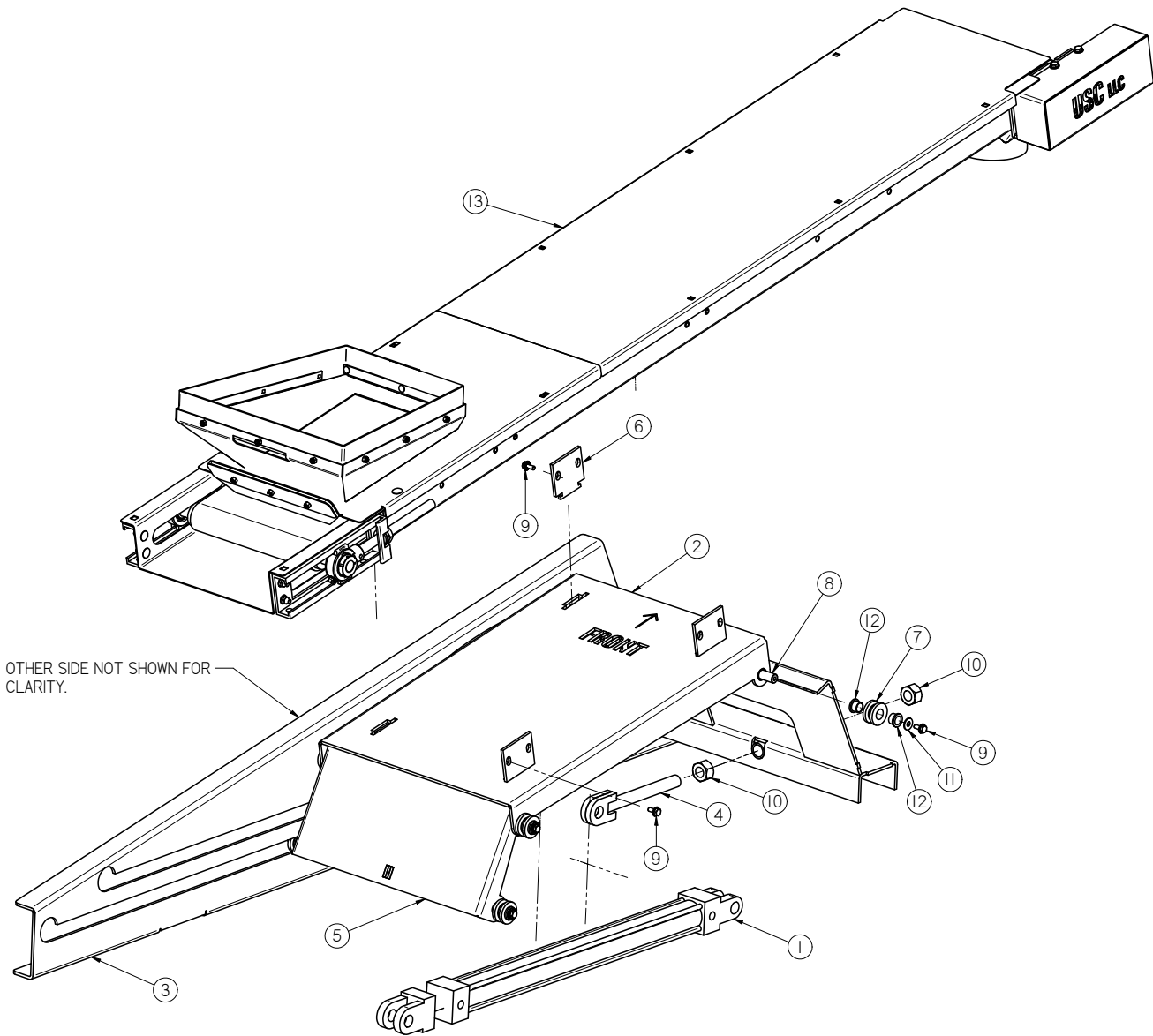
FLXTOR TRANSFORMER

**FEEDER CONVEYOR ASSEMBLY (13-08-0022)**

Item #	Part #	Description	Qty
1	01-01-0120	MTR HYD 4.45 CU IN 820 RPM AT 15GPM	1
2	01-02-0093	SPROCKET, 50BS14H, 1" BORE	2
3	01-03-0037	TAKE UP FR NS-210X6-TUFR	2
4	01-03-0038	TAKE UP BRG NSTU-GT-100	2
5	01-03-0042	BRG FLG MNT 1.000ID 2BOLT	2
6	01-04-0002	CHAIN RLR 50	1
7	01-04-0005	#50 CNTG LINK	1
8	01-04-0007	#50 OFFSET LINK	1
9	01-06-0072	TAIL PLY 2IN DIA SPD TNR	1
10	01-06-0089	PLY HEAD 2.0 IN OD 713 SPD CNVR	1
11	01-10-0004	KEY .250 X 1.00 CS	1
12	05-03-0402	WDMT SPD TNR CNVR TROUGH PAN	1
13	05-03-0416	WDMT 13IN FLAT CNVR DSCHG CHUTE	1
14	05-03-0526	WDMT 713 SPD CNVR DRV MNT	1
15	05-06-0058	GRD CVR WDMT 713 SPD CNVR	1
16	05-07-0166	ASSY SPD TNR 2IN CNVR HPPR	1
17	05-10-2350	PLT TOP PAN 713 CNVR	1
18	05-10-2468	CVR SPD JUMP CNVR	1
19	05-10-4199	PLT CNVR 13IN TRAN 1	1
20	05-10-4200	PLT CNVR 13IN TRAN 2	1
21	06-01-0115	BOLT CRG .375-16 X 1.00 ZP GR5	12
22	06-01-0122	BOLT, CARRIAGE, .250-20x.75 G5 ZP	2
23	06-01-0124	BOLT, FLG .375-16 UNC ZP GRADE 5; 3/4" LG	4
24	06-01-0127	BOLT, CARRIAGE, .375-16 X 1 1/4 ZP G5	2
25	06-01-0153	BOLT CRG .375-16X.750 ZP SHORT NECK	4
26	06-03-0003	NUT NYL LOCK .375-16 ZP GR5	4
27	06-03-0013	NUT,LOCK, FLG .250-20 ZP SERRATED	2
28	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	14
29	11-02-0030	BELT CNVR CRESCENT 713 PVC 120 BLK	1

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**FEEDER CONVEYOR TOP ASSEMBLY (05-07-0205)**



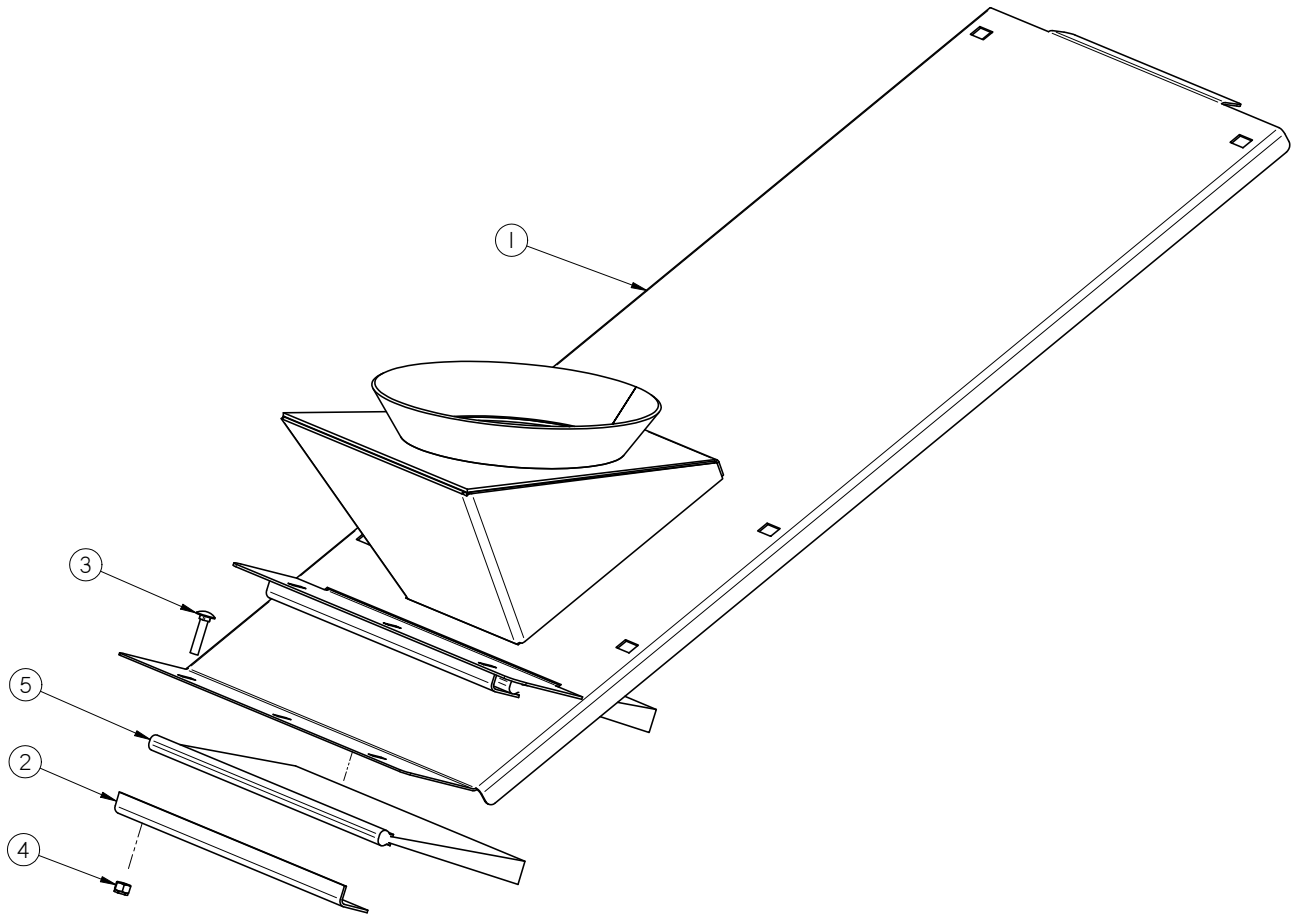
FLXTOR TRANSFORMER

**FEEDER CONVEYOR TOP ASSEMBLY (05-07-0205)**

Item #	Part #	Description	Qty
1	03-17-0031	CYL HYD TIE ROD 30IN STROKE 2IN ID	1
2	05-03-0528	WDMT 713 SPD CNVR SLIDE MNT	1
3	05-03-0529	WDMT 713 SPD CNVR SLIDE FR	1
4	05-03-0530	WDMT 713 SPD CNVR ADJ CYL BRKT	1
5	05-03-0531	WDMT 713 SPD CNVR LIFT BRKT	1
6	05-10-3125	PLT SPD 713 CNVR RTNR	2
7	05-11-0204	RLR 1.87OD X .875ID X 1.0W CS GRVD	6
8	05-11-0205	SHAFT SPD RETR CNVR 1.0 OD CS	3
9	06-01-0124	BOLT FLG .375-16 X .750 ZP GR5	14
10	06-02-0056	NUT, 1.00-8 G5 ZP	2
11	06-05-0004	WSHR FLAT .375 ZP	6
12	06-12-0027	BUSH FLG BRZ .750ID X .875OD X .500	12
13	13-08-0022	ASSY CNVR 713 CRESCENT BELT	1

FLXTOR TRANSFORMER

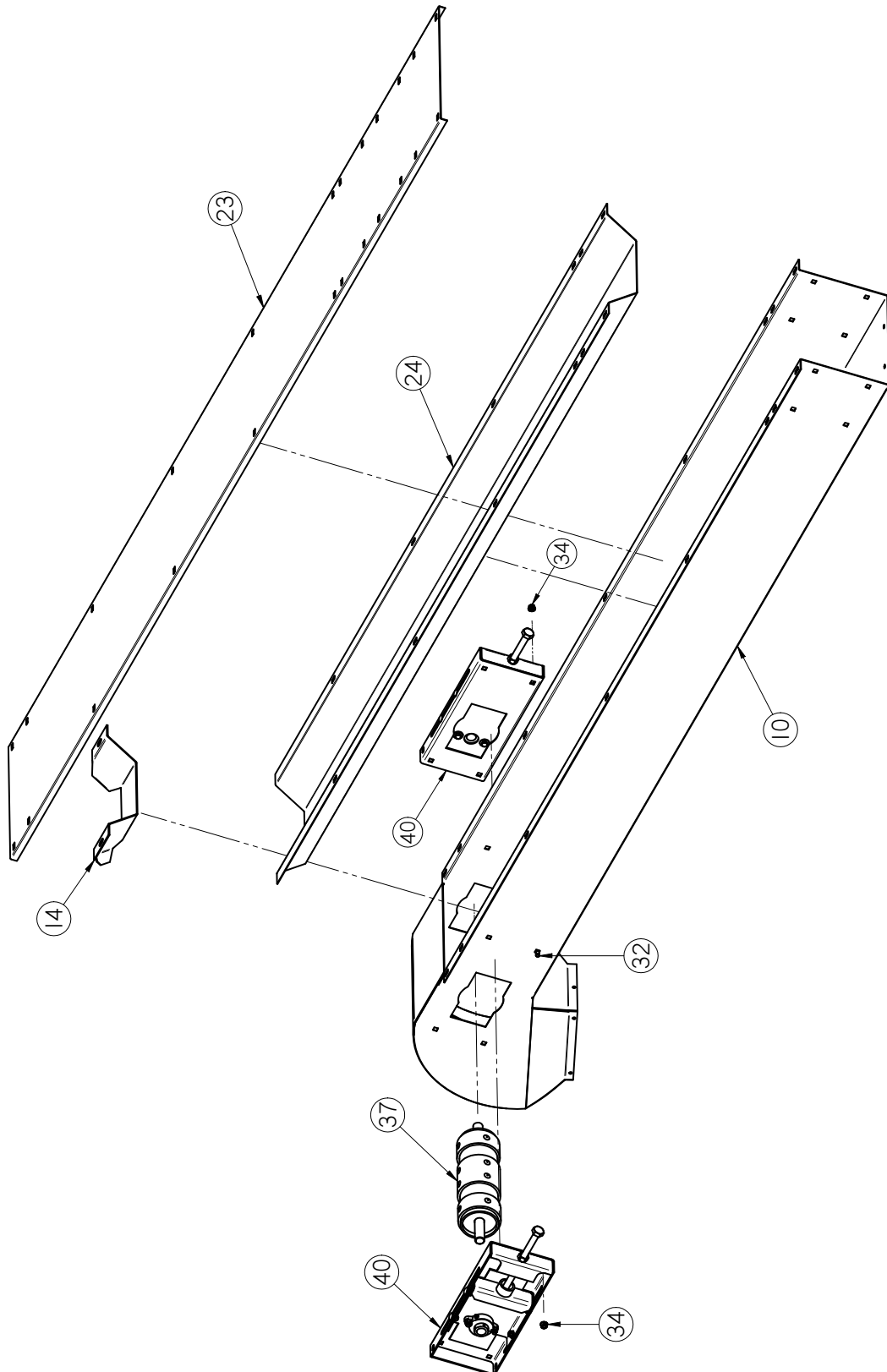
**PIVOT HOPPER ASSEMBLY (05-07-0165)**



Item #	Part #	Description	Qty
1	05-03-0389	WDMT 13 PIVOT HPPR	1
2	05-10-2322	INLET BRSH HLDR 13IN CNVR	2
3	06-01-0159	BOLT CRG .25-20 X 1.25 ZP GR5	6
4	06-03-0001	NUT,LOCK, .250-20 ZP G5 NYLON INSERT	6
5	06-10-0030	SEAL BRSH 11.500 OAL 4.5IN EXP LG (06-10-0028)	2

FLXTOR TRANSFORMER

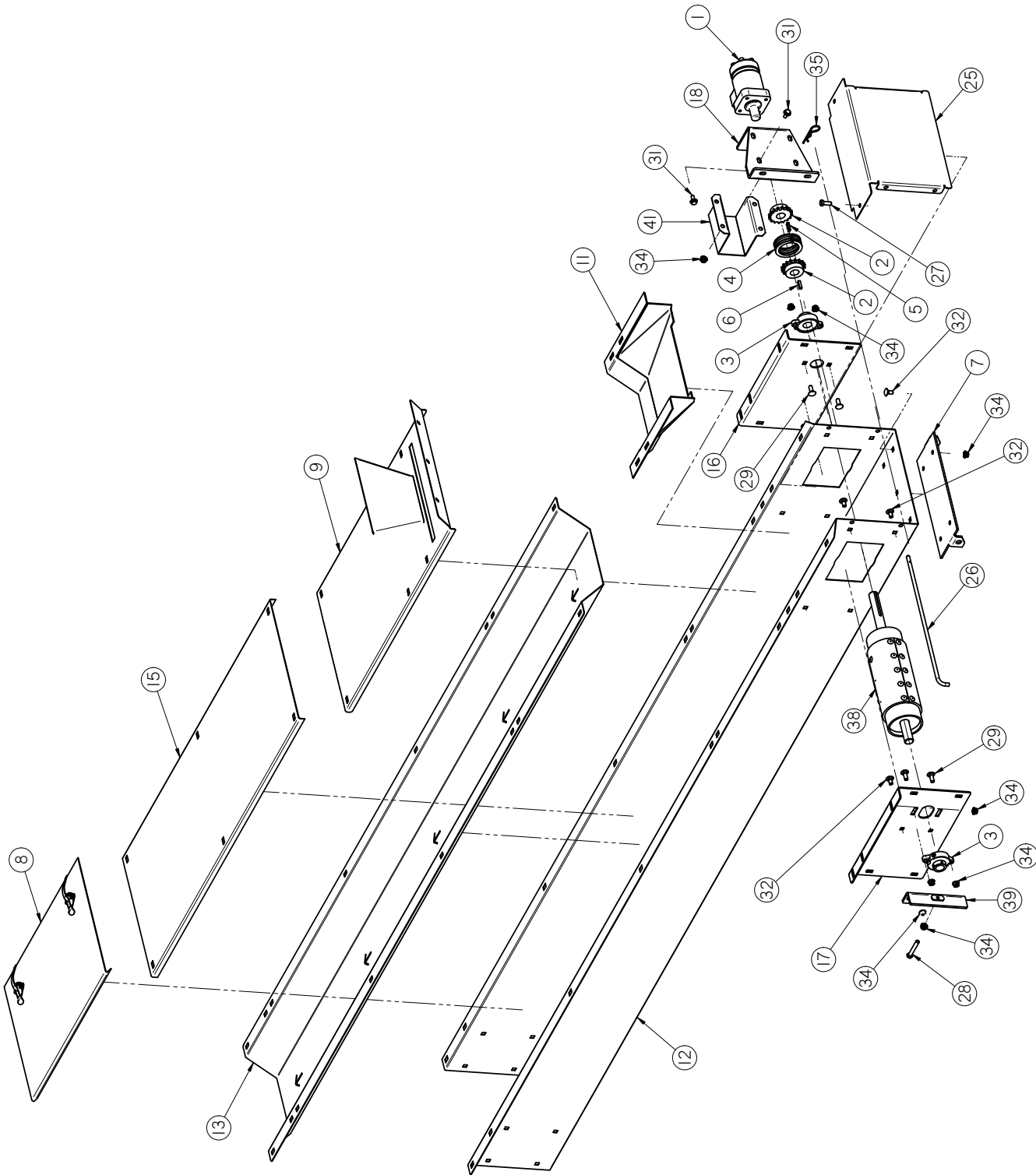
**DISCHARGE CONVEYOR ASSEMBLY (13-08-0016)**





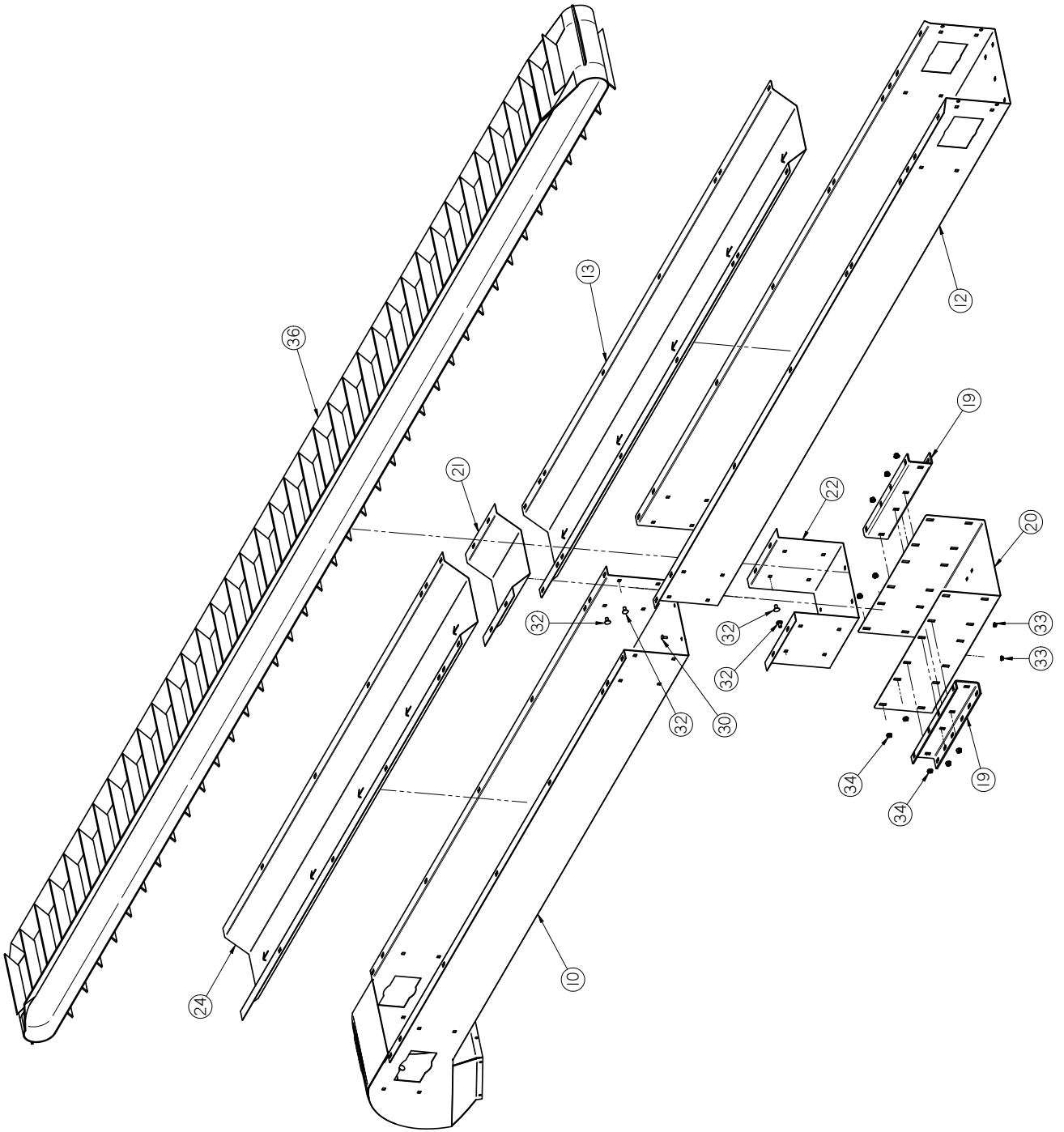
FLXTOR TRANSFORMER

**DISCHARGE CONVEYOR ASSEMBLY (13-08-0016)**



FLXTOR TRANSFORMER

**DISCHARGE CONVEYOR ASSEMBLY (13-08-0016)**



FLXTOR TRANSFORMER

**DISCHARGE CONVEYOR ASSEMBLY (13-08-0016)**

Item #	Part #	Description	Qty
1	01-01-0170	MTR HYD 4.89 CU IN 820 RPM AT 15GPM	1
2	01-02-0083	Sprocket #40 16T 1.00 in Bore Type B	2
3	01-03-0042	BRG FLG MNT 1.000ID 2BOLT ECNTRC	2
4	01-04-0040	ROLLER CHAIN RC40-2 15 LINKS (7.5")	1
5	01-04-0041	ROLLER CHAIN RC40-2 CNTG LINK	1
6	01-10-0004	KEY .250 X 1.00 CS	1
7	05-03-0509	WDMT CNVR PIVOT MNT DISCHARGE CONVEYOR	1
8	05-06-0044	REMOVABLE COVER ASSEMBLY	1
9	05-07-0165	ASSY 13IN PIVOT HPPR	1
10	05-07-0174	WDMT, CNVR TAIL, 13 IN	1
11	05-07-0195	WDMT LG INLET TRANS 13IN	1
12	05-10-2313	FRAME-TAIL SECTION	1
13	05-10-2316	TROUGHING PAN-TAIL SECTION	1
14	05-10-2323	TROUGH TRANSITION PLATE	1
15	05-10-2326	TOP COVER 4FT	1
16	05-10-2503	PLT INLET DRV MNT RH SIDE	1
17	05-10-2504	PLT INLET DRV MNT LH SIDE	1
18	05-10-2505	BRKT HYD MTR DRV BTM MNT S2000	1
19	05-10-2788	PLT SUPT CNVR	2
20	05-10-2789	SPLICE PLATE-FORMED	1
21	05-10-2790	PLT 12 IN SPACER TROUGH	1
22	05-10-2791	PLT 12 IN SPACER PAN	1
23	05-10-2792	PLT, COVER	1
24	05-10-2793	TROUGHING PAN-HEAD SECTION	1
25	05-10-2807	CVR CLEAN OUT FD CNVR	1
26	05-11-0185	PIN CLEAN OUT CVR LOCK	2
27	06-01-0016	BOLT .375-16 X 1.00 ZP GR5	2
28	06-01-0071	BOLT .375-16 X 2.50 ZP GR5	1
29	06-01-0115	BOLT CRG .375-16 X 1.00 ZP GR5	8
30	06-01-0122	BOLT, CARRIAGE, .250-20x.75 G5 ZP	8
31	06-01-0124	BOLT FLG .375-16 X .750 ZP GR5	8
32	06-01-0153	BOLT CRG .375-16X.750 ZP SHORT NECK	80
33	06-03-0013	NUT,LOCK, FLG .250-20 ZP SERRATTED	8
34	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	97
35	06-09-0039	PIN CLIP HITCH 2.625 #11 1/8 IN ZP	2

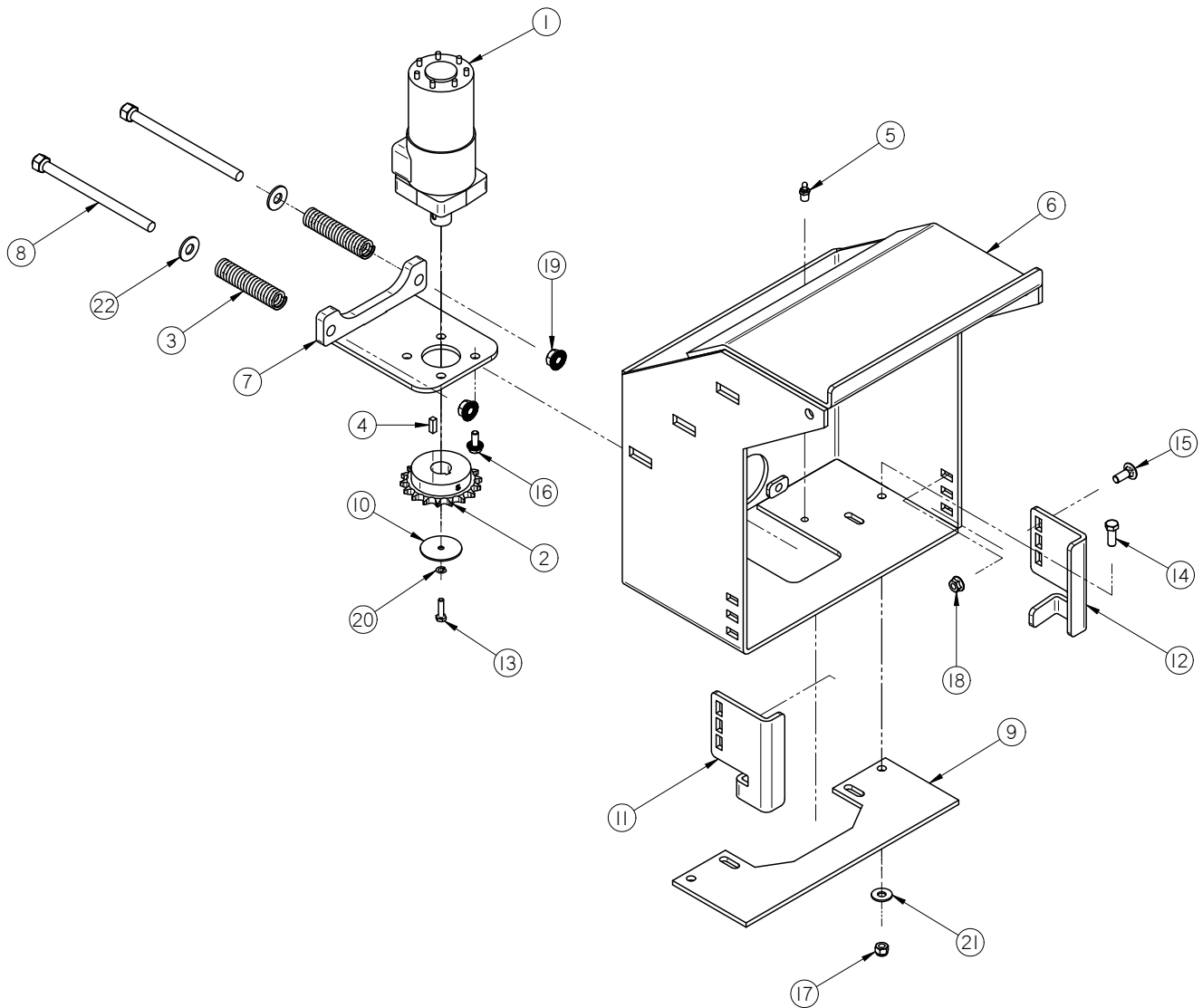
FLXTOR TRANSFORMER

**DISCHARGE CONVEYOR ASSEMBLY (13-08-0016)**

Item #	Part #	Description	Qty
36	11-02-0044	BELT CNVR CLTS 2013 SD TNR	1
37	13-08-0017	15.5 X 4 TAIL PULLEY WELDMENT	1
38	13-08-0021	15.5 X 4 HEAD PULLEY WELDMENT	1
39	280-2-0016	TRACKING ANGLE WELDMENT	1
40	280-2-0045	TAIL TAKE-UP ASSEMBLY	2
41	280-2-0060	SHAFT GUARD WDMT S2000 HYDR DRIVE	1

FLXTOR TRANSFORMER

**TENDER CONVEYOR DRIVE ASSEMBLY (05-08-0081)**



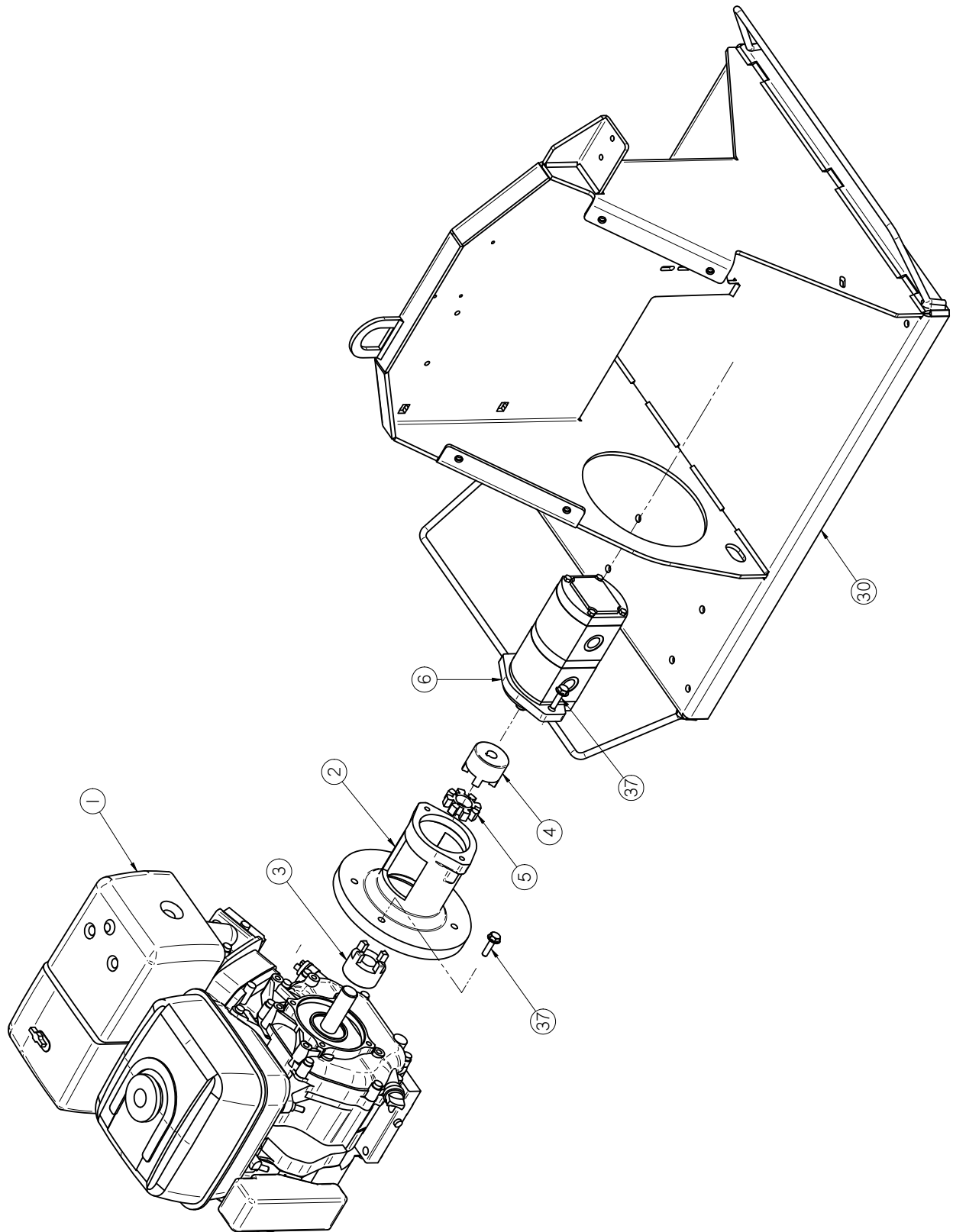
FLXTOR TRANSFORMER

**TENDER CONVEYOR DRIVE ASSEMBLY (05-08-0081)**

Item #	Part #	Description	Qty
1	01-01-0169	MTR HYD 22.6 CU IN	1
2	01-02-0096	SPKT #50 18T WTIH 1 FNSH BORE	1
3	01-04-0050	SPG COMP .9375 X .148 WIRE X 4.00 LG	2
4	01-10-0016	KEY .250 X 0.75 CS	1
5	01-11-0002	FTTG GRS STGHT .125 PTF	2
6	05-03-0423	WDMT SPD TNDR CNVR SWING DRV MNT	1
7	05-03-0508	WDMT, SEED TENDER MOTOR MNT	1
8	05-03-0932	WDMT TNSNR SLIDER BOLT TRK UNLD	2
9	05-10-2517	PLT CNVR SLIDE SPD TNDR UHMW	1
10	05-10-3038	PLT HYD MTR RETAINER WSHR	1
11	05-10-3041	PLT SEED TNDR CNVR HOLD DOWN LT	1
12	05-10-3042	PLT SEED TNDR CNVR HOLD DOWN RT	1
13	06-01-0007	BOLT, .250-20 X 1 UNC ZP GRADE 5	1
14	06-01-0016	BOLT .375-16 X 1.00 ZP GR5	4
15	06-01-0115	BOLT CRG .375-16 X 1.00 ZP GR5	6
16	06-01-0124	BOLT FLG .375-16 X .750 ZP GR5	4
17	06-03-0003	NUT NYL LOCK .375-16 ZP GR5	4
18	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	6
19	06-03-0015	NUT LOCK FLG .500-13 ZP GR5	2
20	06-04-0001	WSHR LOCK SPLT .250 ZP	1
21	06-05-0004	WSHR FLAT .375 ZP	4
22	06-05-0005	WSHR FLAT .500 ZP	2

FLXTOR TRANSFORMER

**HYDRAULIC POWER PACKAGE ASSEMBLY (01-01-0206)**

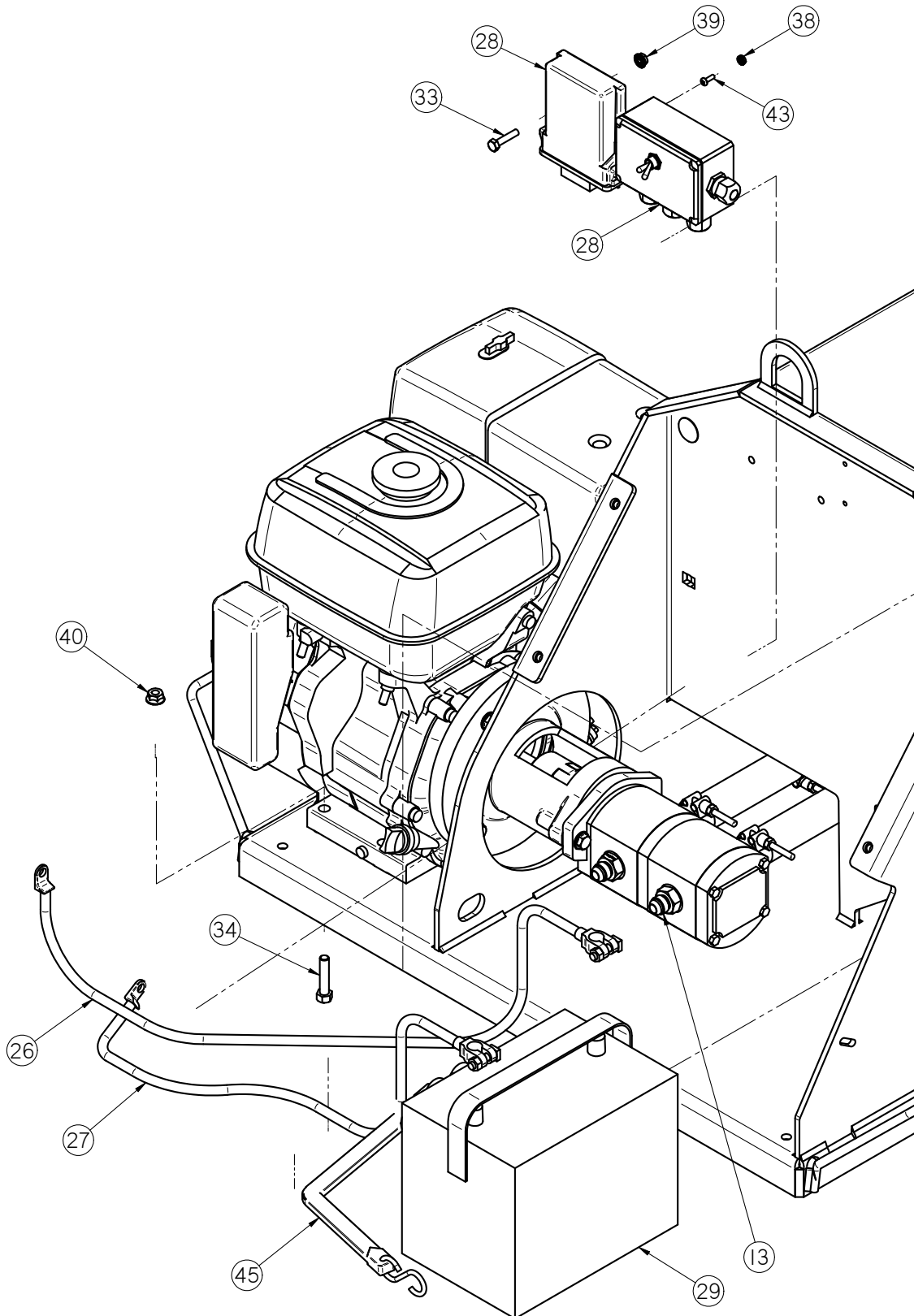






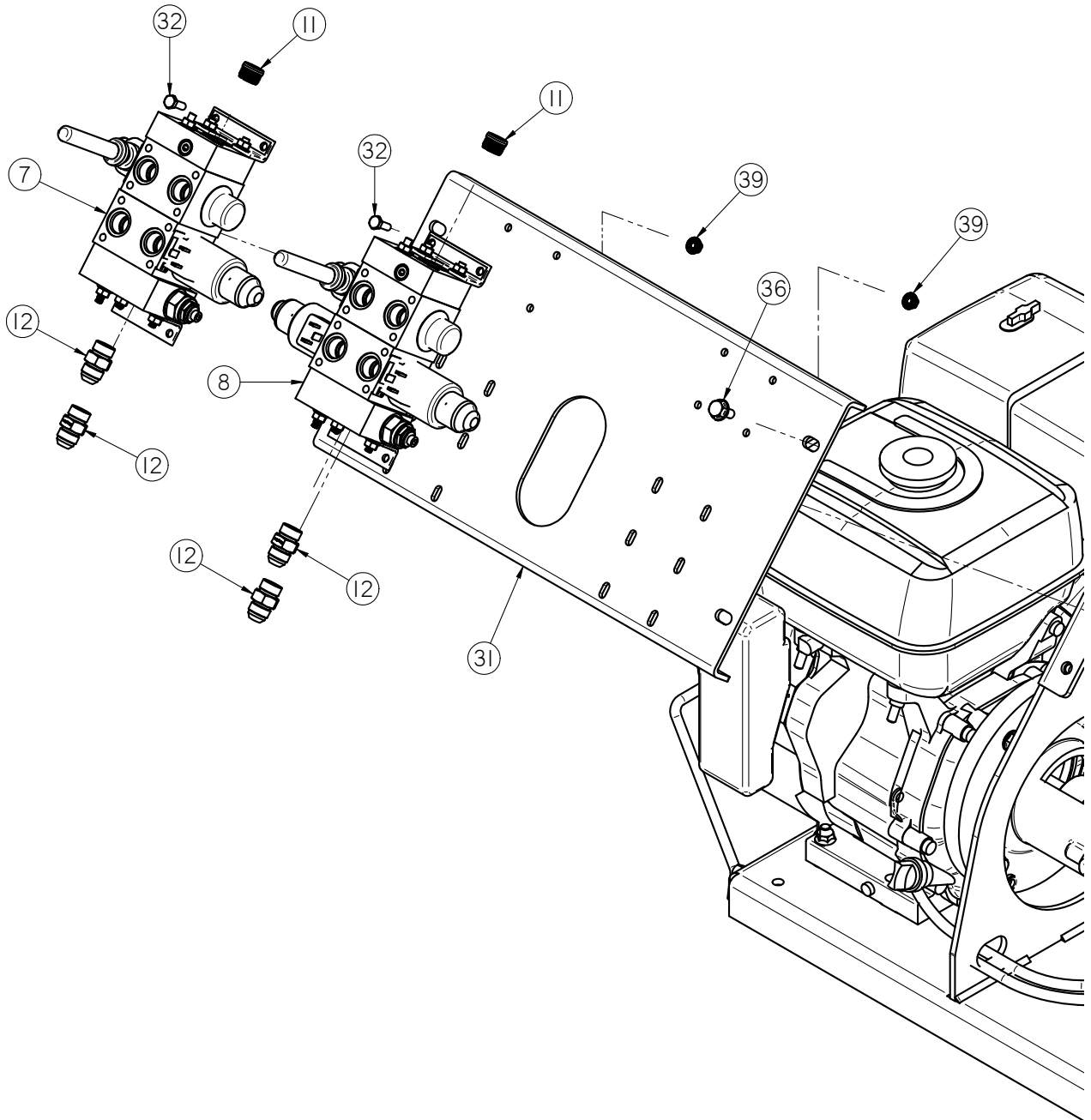
FLXTOR TRANSFORMER

**HYDRAULIC POWER PACKAGE ASSEMBLY (01-01-0206)**



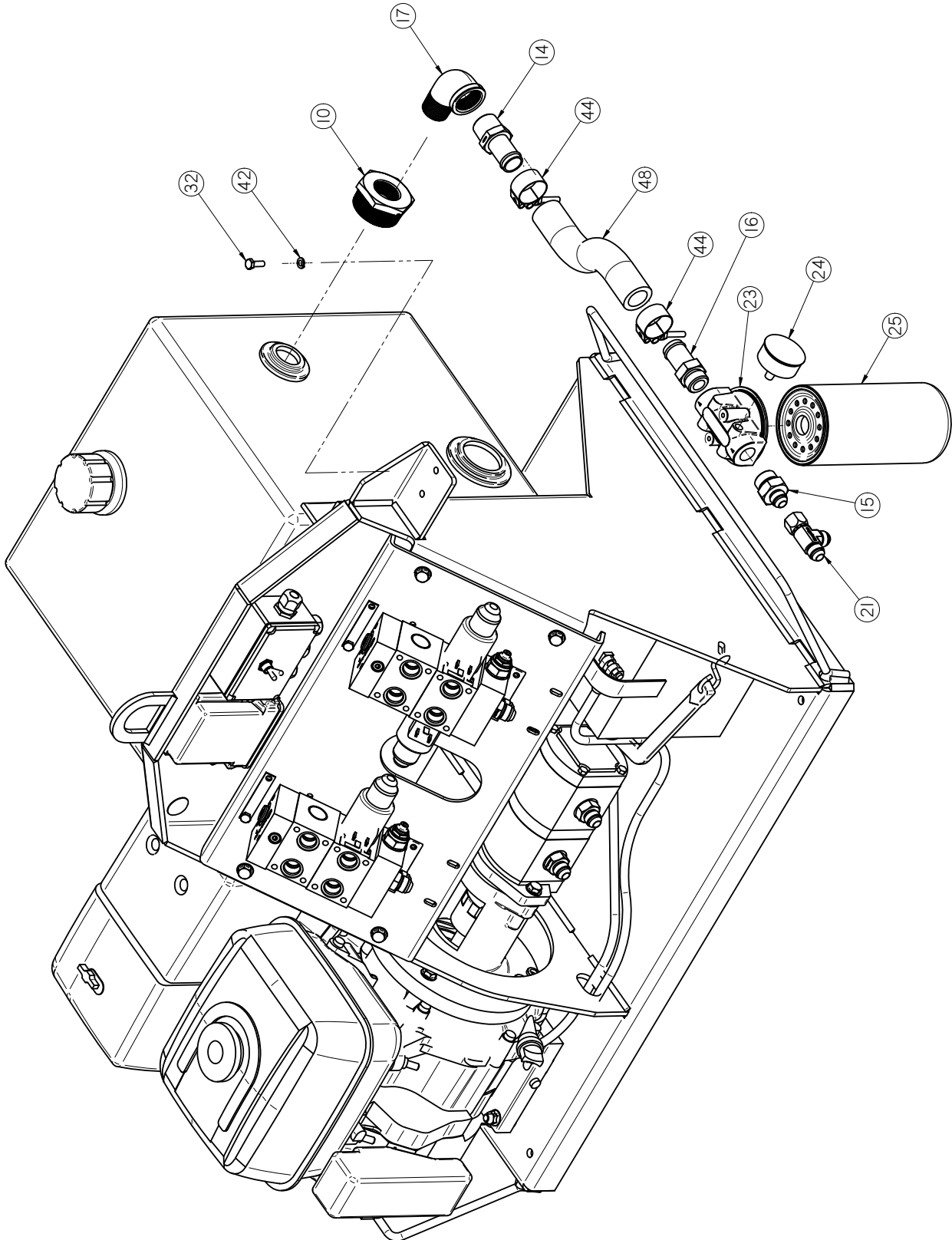
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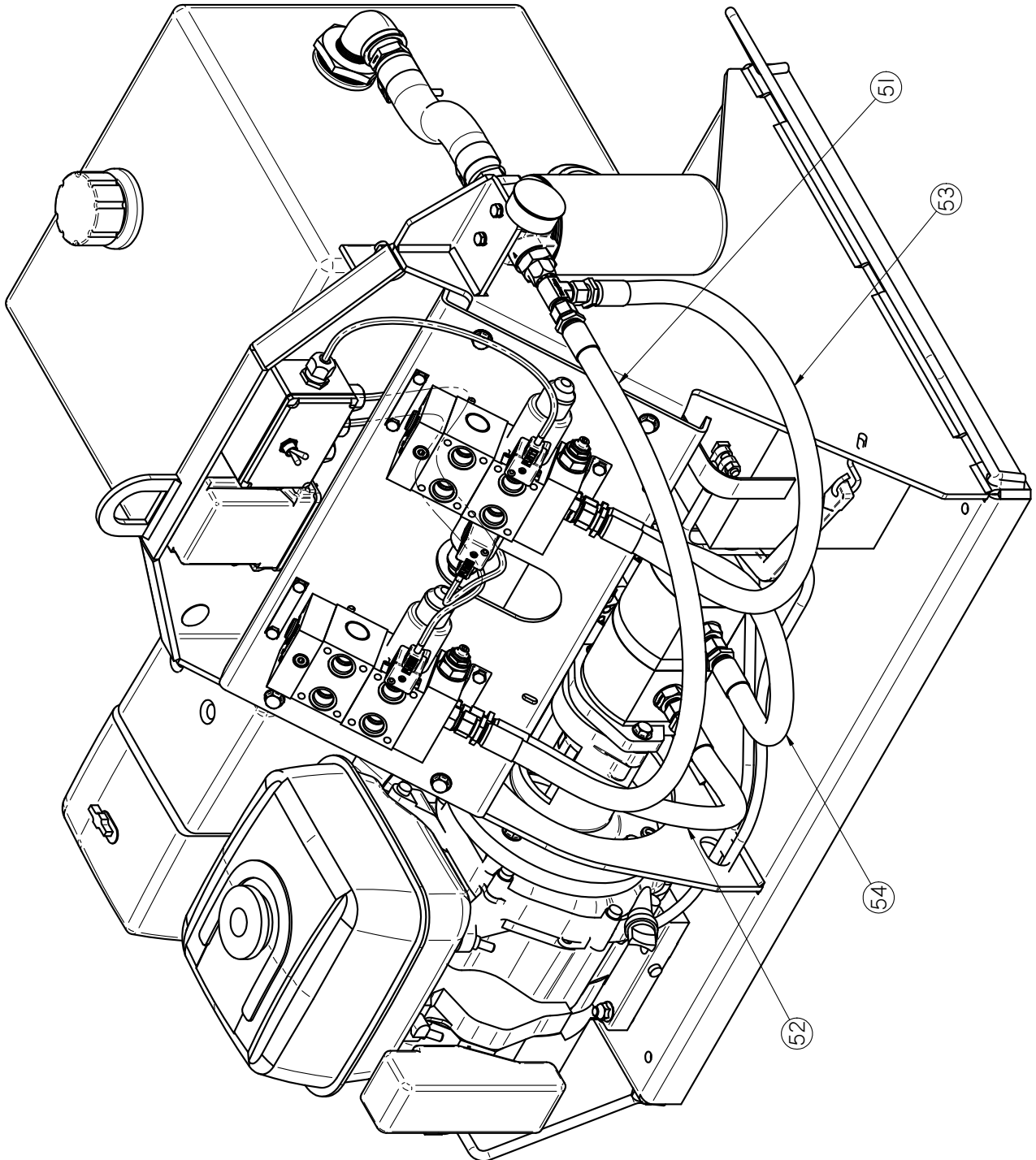
FLXTOR TRANSFORMER

**HYDRAULIC POWER PACKAGE ASSEMBLY (01-01-0206)**



FLXTOR TRANSFORMER

**HYDRAULIC POWER PACKAGE ASSEMBLY (01-01-0206)**



FLXTOR TRANSFORMER

**HYDRAULIC POWER PACKAGE ASSEMBLY (01-01-0206)**

Item #	Part #	Description	Qty
1	01-01-0171	MTR HONDA GX390	1
2	01-07-0034	FRM PUMP MTR BRKT SAE A 2BOLT	1
3	01-07-0035	24/32 PM JAW B HUB 1.00 ID	1
4	01-07-0036	24/32 PM JAW B HUB .625 BORE	1
5	01-07-0037	24/32 98 DURO RED SPIDER	1
6	02-01-0036	HYD DUAL PUMP 16CC 8CC	1
7	02-02-0068	VLV HYD CUSTOM BV18 CNVR-LIFT	1
8	02-02-0069	VLV HYD CUSTOM BV18 SWING-SLIDE	1
9	02-04-0035	FTTG BUSH 2.00NPT X 1.00NPT STL	1
10	02-04-0036	FTTG BUSH 1.25NPT X 1.00NPT STEEL	1
11	02-05-0062	FTTG PLUG HYD #8 .750-16 NPSM	2
12	02-05-0069	FTTG HYD STGHT 8MJ-8MOR	4
13	02-05-0078	FTTG HYD STGHT 8MJ-10MOR	2
14	02-05-0088	FTTG HYD STGHT 16HOSE-16MP	3
15	02-05-0090	FTTG HYD STGHT 8MJ-12MOR	1
16	02-05-0091	FTTG HYD STGHT 16HOSE-12MOR	3
17	02-06-0071	FTTG 90 DEG STRT 1.00 NPT STL	3
18	02-06-0073	FTTG 90 DEG 1.00NPT FM STL	1
19	02-07-0077	FTTG NIP 1.00 NPT X 2.00 TBE STL	1
20	02-07-0078	FTTG NIP 1.00 NPT X 4.00 TBE STL	1
21	02-09-0031	FTTG HYD TEE RUN 8MJ-8FJX-8MJ	1
22	02-09-0034	FTTG TEE 1.0 NPT 150 PSI STL	1
23	02-12-0014	FILTER HEAD SAE-12 UPSTREAM	1
24	02-12-0015	FILTER VISUAL IND 0-100PSI .125 NPT	1
25	02-12-0016	FILTER ELEMENT 10 MICRON 1-12	1
26	03-07-0135	CBL BTRY 35IN TOP POST RED	1
27	03-07-0136	CBL BTRY 25IN TOP POST BLACK	1
28	03-12-0264	PNL CNTL PWR PKG REMOTE	1
29	03-14-0009	12 VOLT BATTERY	1
30	05-03-1343	WDMT FR HYD PUMP CS	1
31	05-10-4243	BRKT VLV MNT	1
32	06-01-0006	BOLT .250-20 X .750 ZP GR5	10
33	06-01-0008	BOLT, .250-20 X 1 1/4" UNC ZP GRADE 5	2
34	06-01-0019	BOLT .375-16 X 1.75 ZP GR5	4
35	06-01-0062	BOLT CRG .500-13 X 1.125 ZP GR5	4

FLXTOR TRANSFORMER

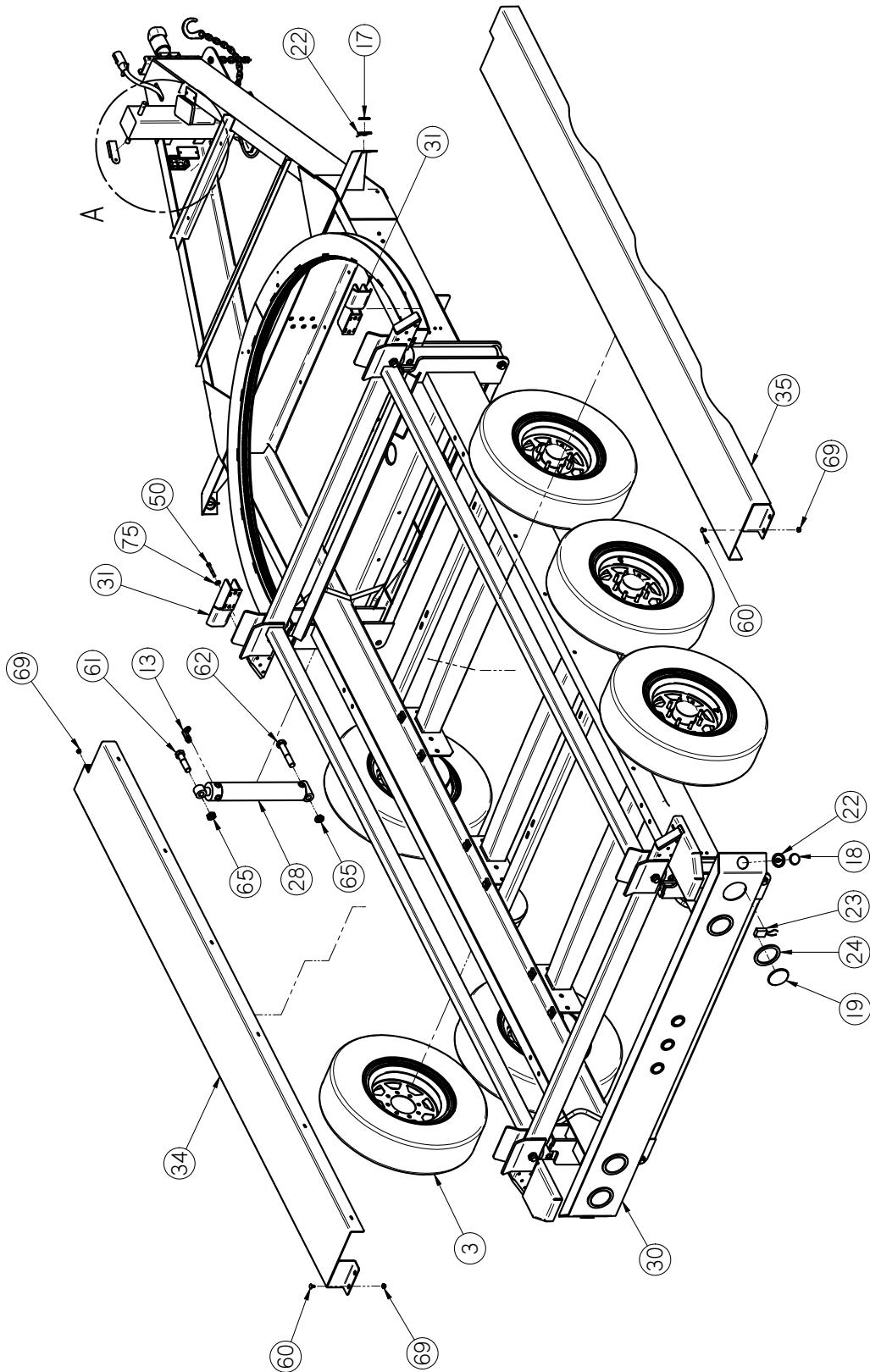
**HYDRAULIC POWER PACKAGE ASSEMBLY (01-01-0206)**

Item #	Part #	Description	Qty
36	06-01-0124	BOLT FLG .375-16 X .750 ZP GR5	4
37	06-01-0189	BOLT FLG .375-16 X 1.250 ZP GR5	6
38	06-02-0034	NUT 8-32 K-LOCK ZP	4
39	06-03-0013	NUT,LOCK, FLG .250-20 ZP SERRATED	10
40	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	4
41	06-03-0015	NUT LOCK FLG .500-13 ZP GR5	4
42	06-04-0001	WSHR LOCK SPLT .250 ZP	2
43	06-06-0004	SCRW MACH 8-32 X .500 PHLP RDHD ZP	4
44	06-07-0031	CLMP HOSE T-BOLT 1.375-1.625 SS ZP	6
45	06-09-0092	STRAP RBBR 10IN LG	1
46	07-02-0023	TNK HYD 15GAL 16X14X16	1
47	102D7B	HOSE 1IN SUCTION (02-03-0058)	2
48	102D7F	HOSE 1 IN RETURN (02-03-0058)	1
49	11-14-0002	OIL HYD DTE25 5GAL	3
50	11-14-0003	OIL ENGINE 10W-30 QUART	1
51	13-05-0273	ASSY HOSE 28.0IN - 08 FJX - 08 FJX	1
52	13-05-0274	ASSY HOSE 16.0IN - 08 FJX - 08 FJX	1
53	13-05-0275	ASSY HOSE 21.0IN - 08 FJX - 08 FJX	1
54	13-05-0276	ASSY HOSE 18.0IN - 08 FJX - 08 FJX	1



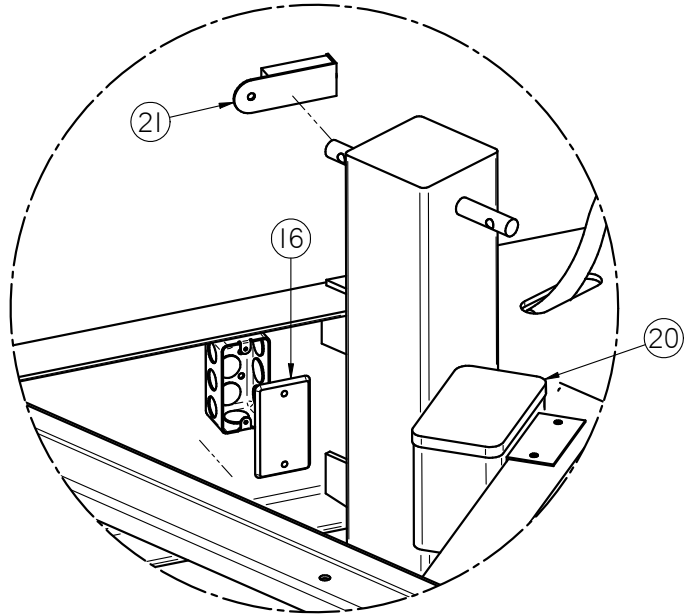
FLXTOR TRANSFORMER

**TRANSFORMER TOP ASSEMBLY (13-14-0012)**

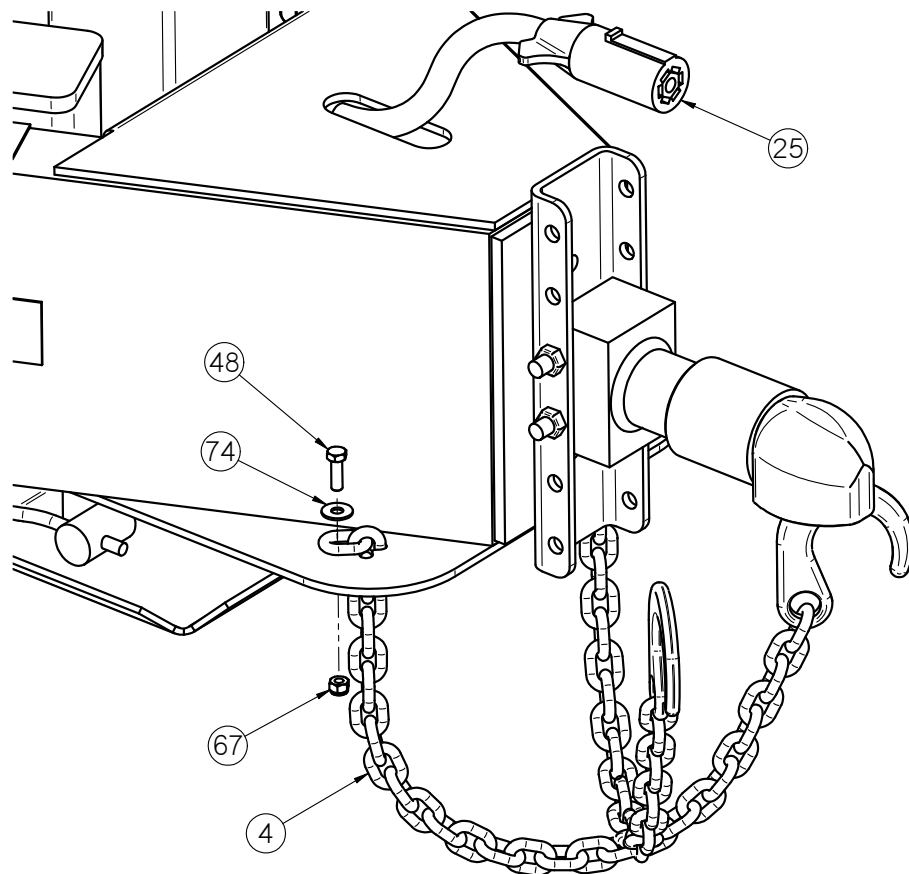


FLXTOR TRANSFORMER

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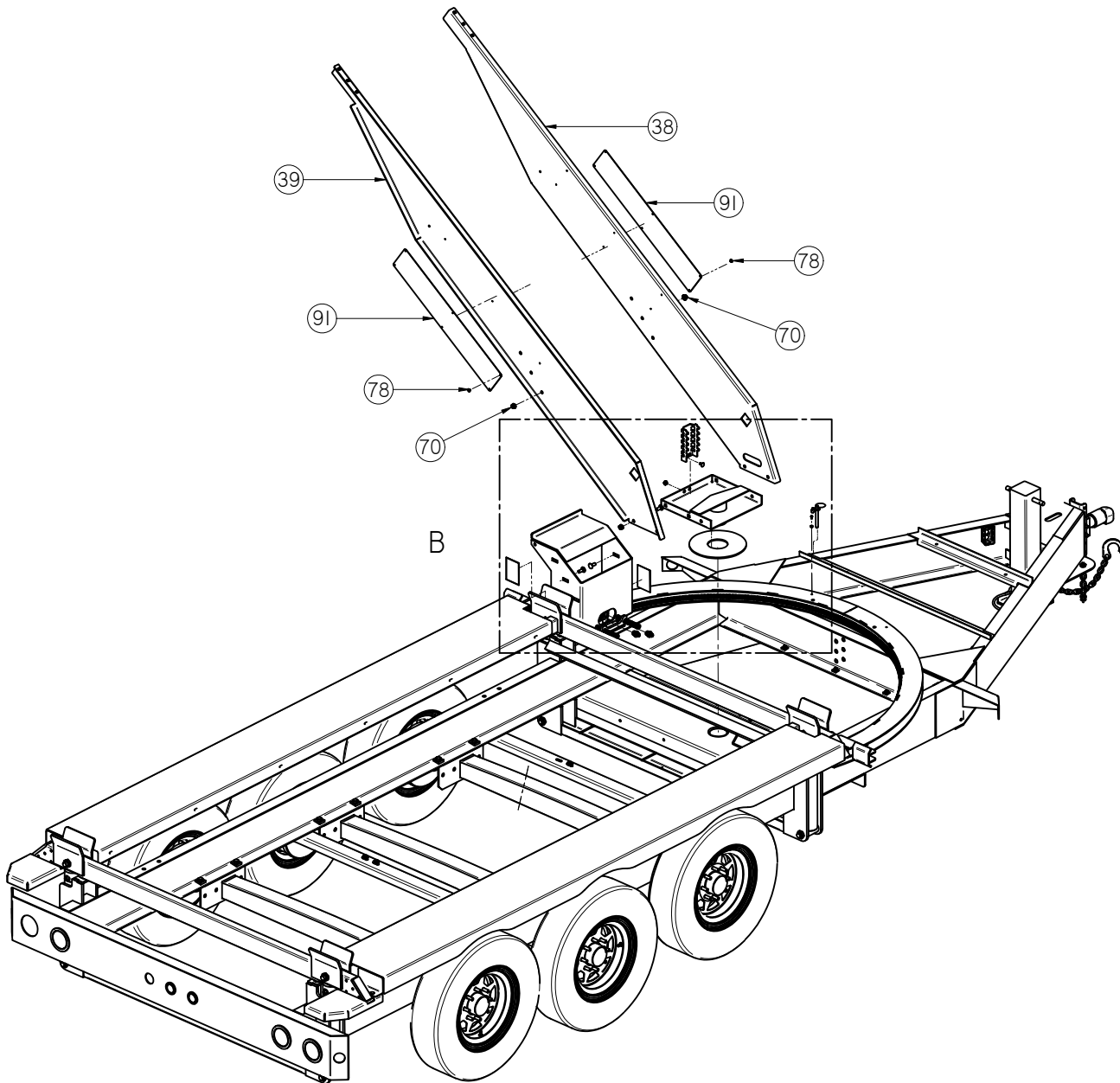


DETAIL A



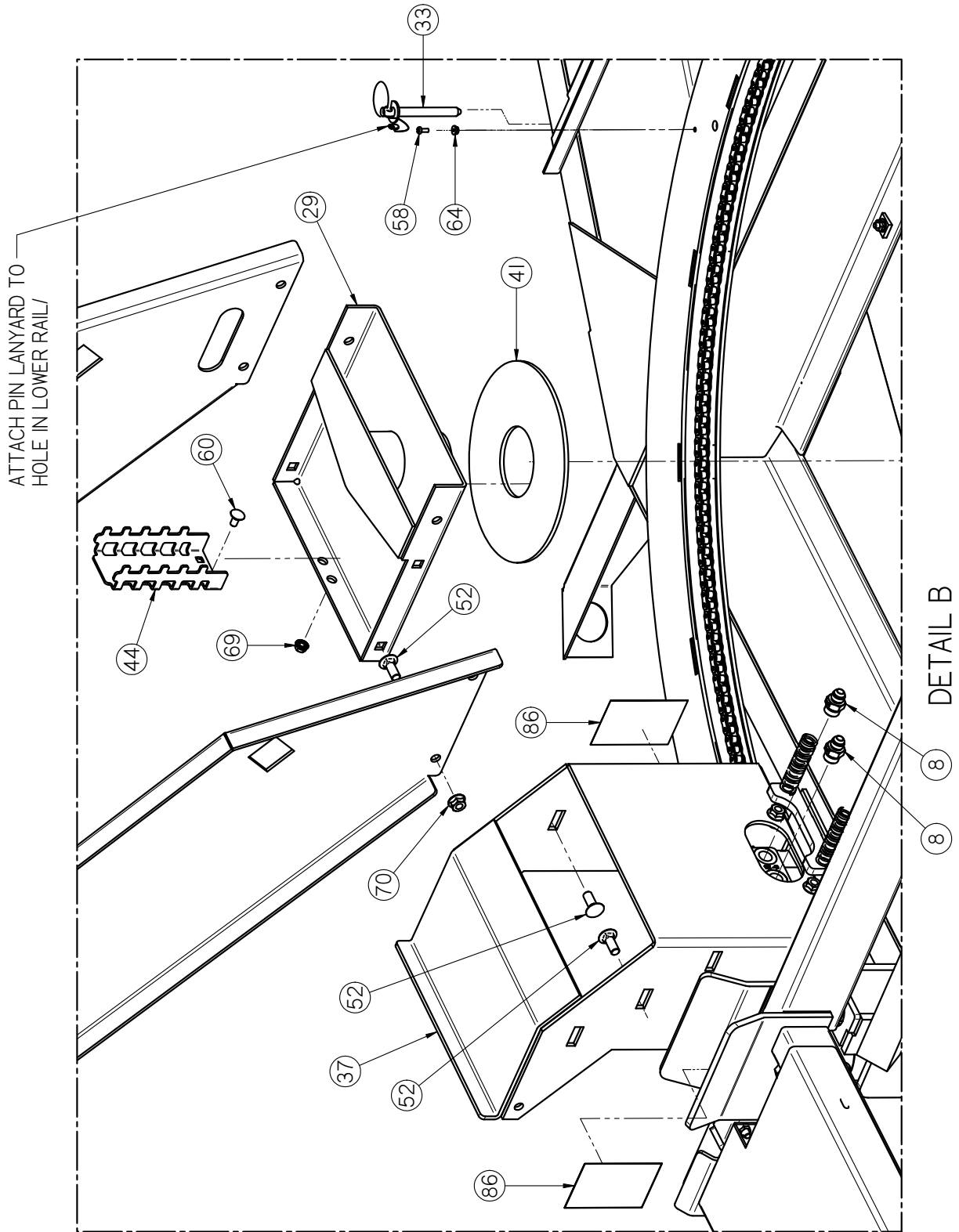
FLXTOR TRANSFORMER

**TRANSFORMER TOP ASSEMBLY (13-14-0012)**



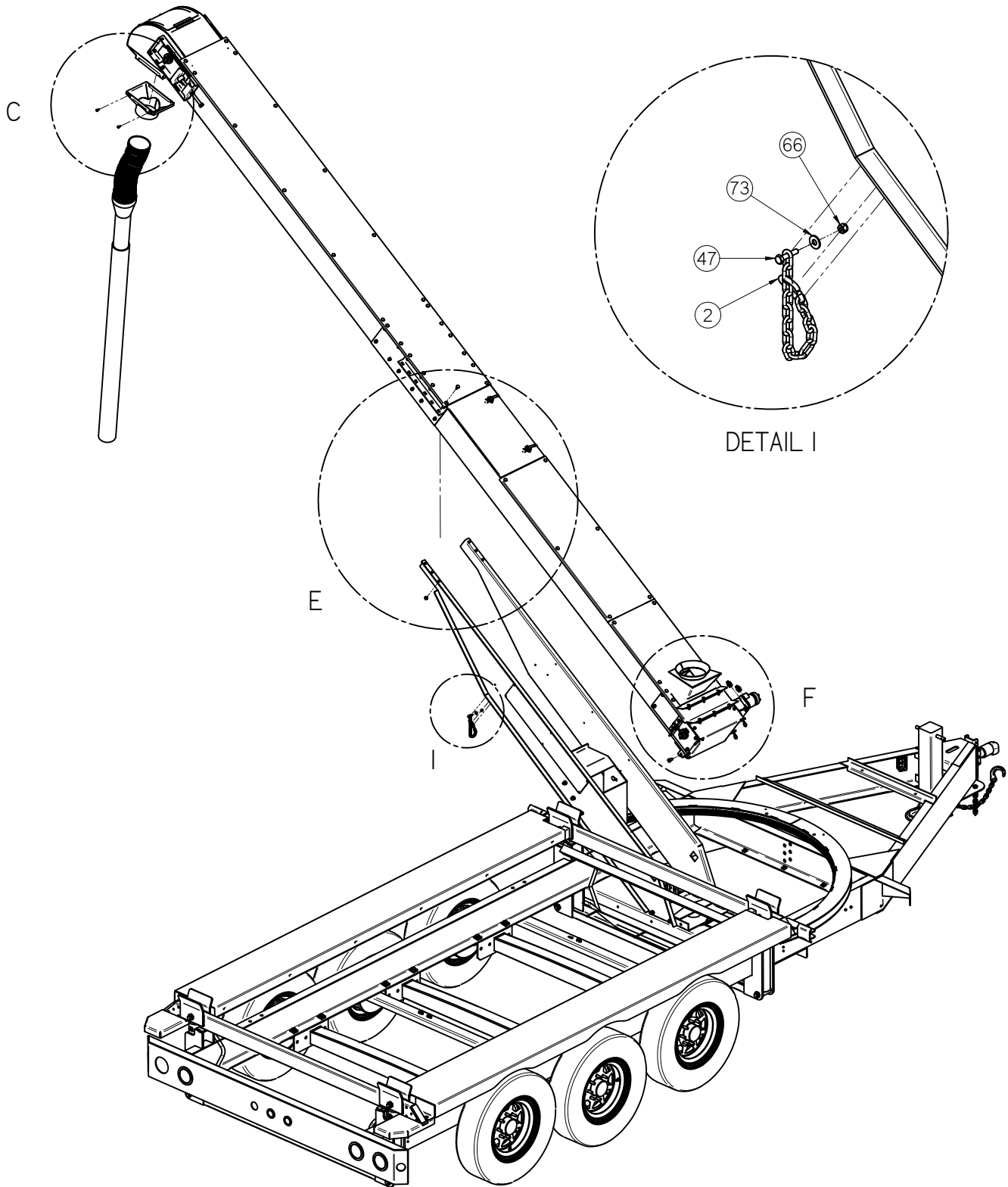
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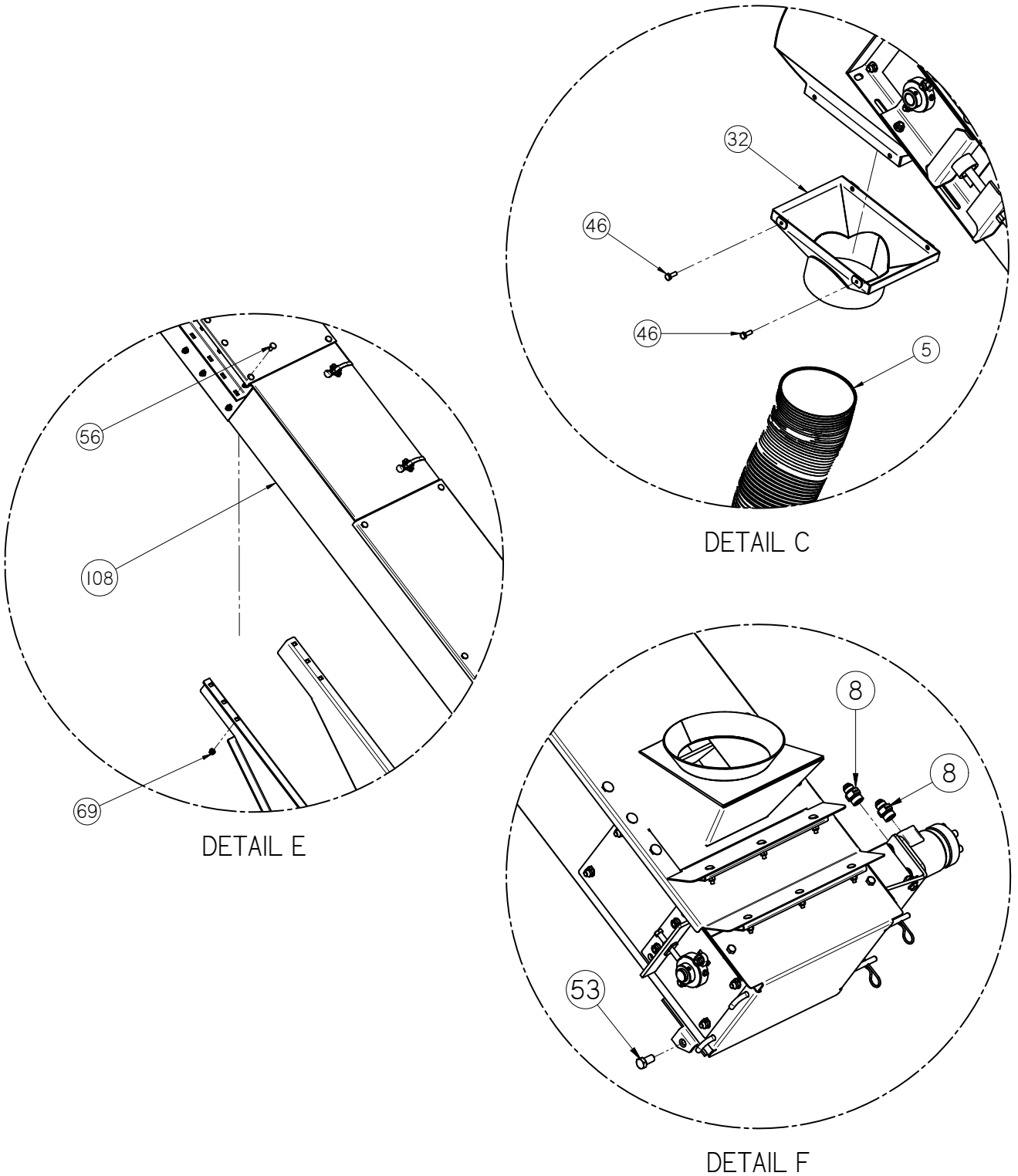
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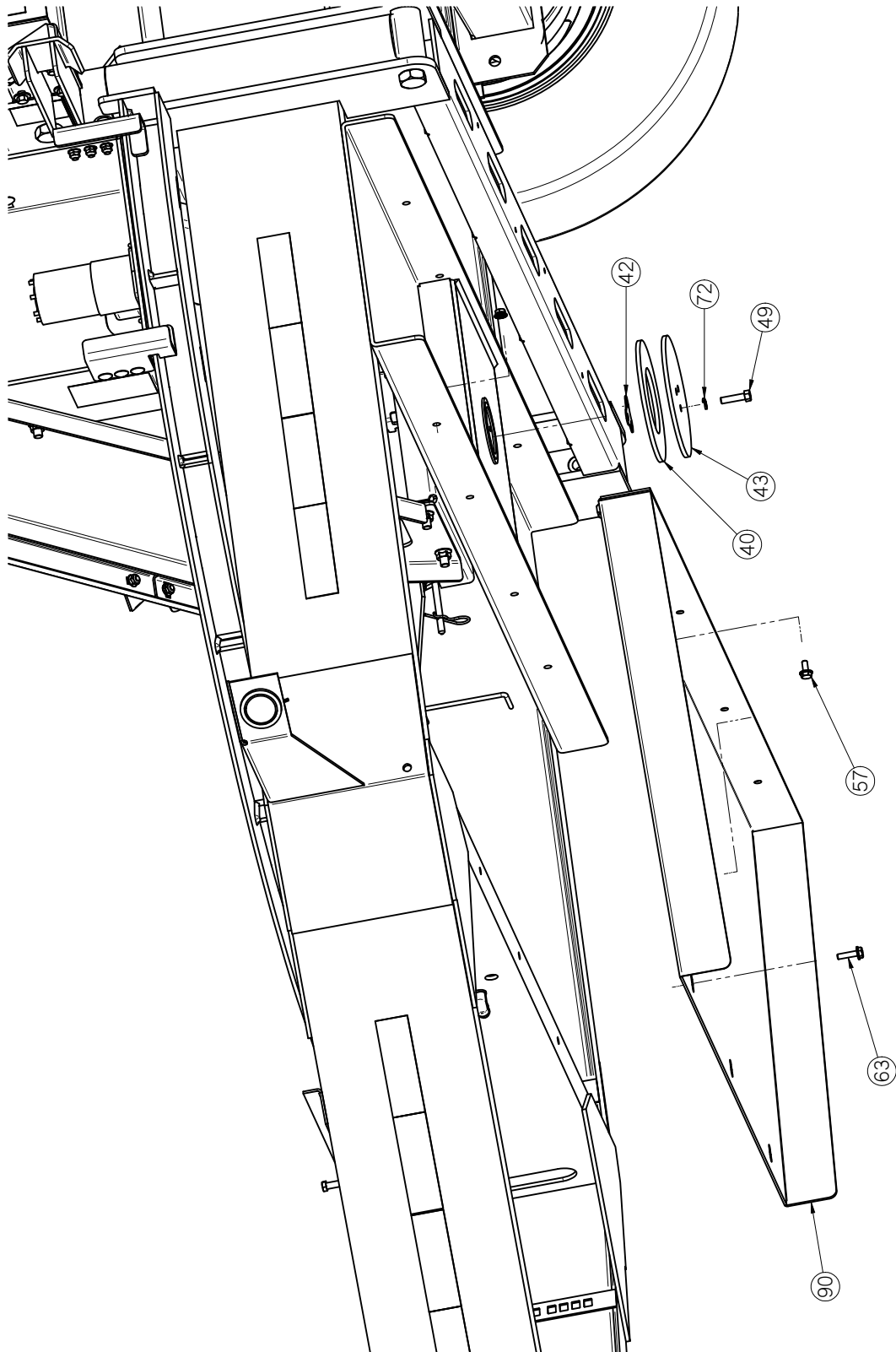
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**TRANSFORMER TOP ASSEMBLY (13-14-0012)**



FLXTOR TRANSFORMER

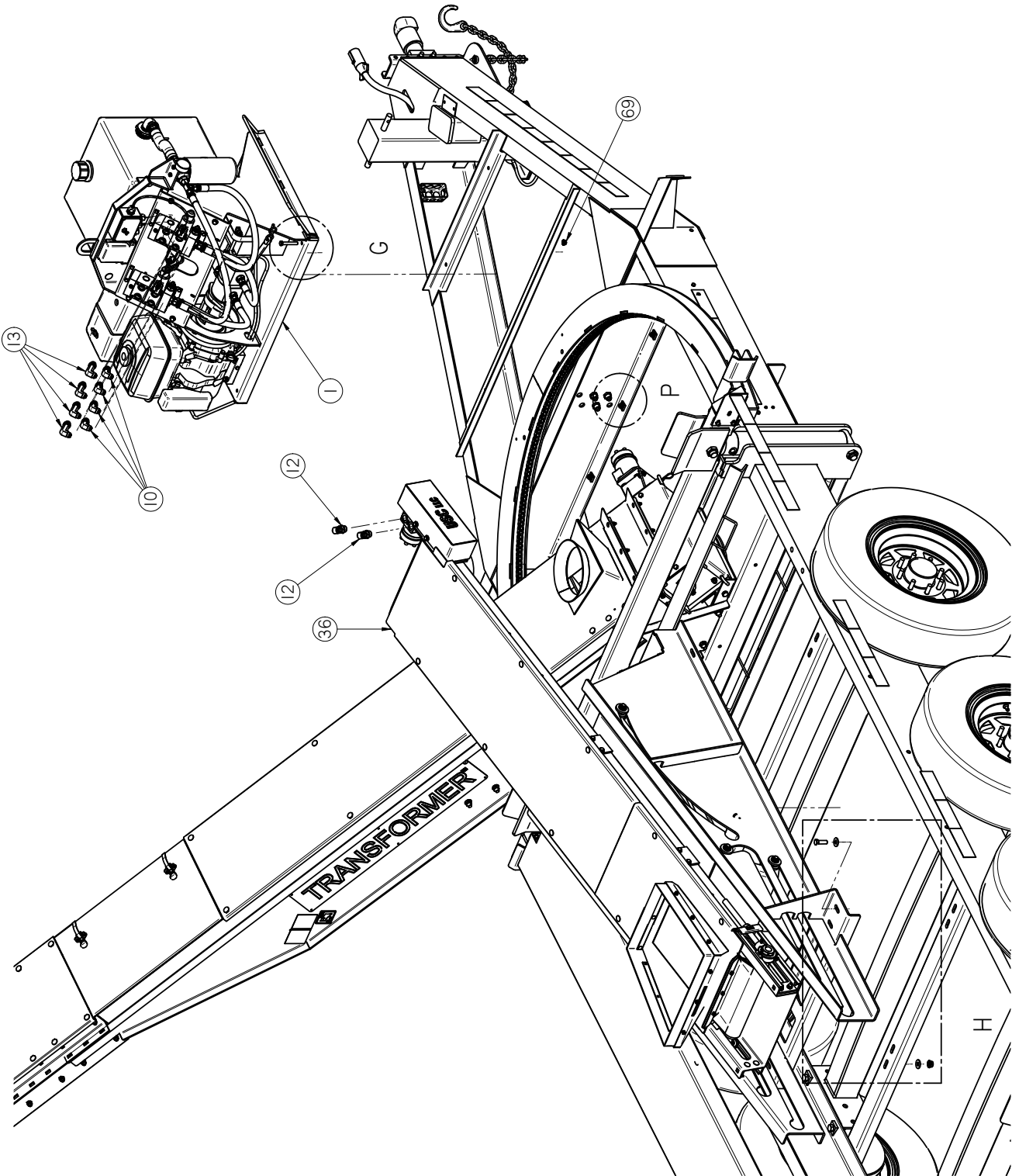
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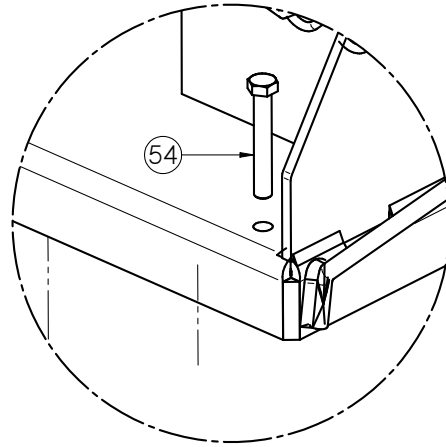
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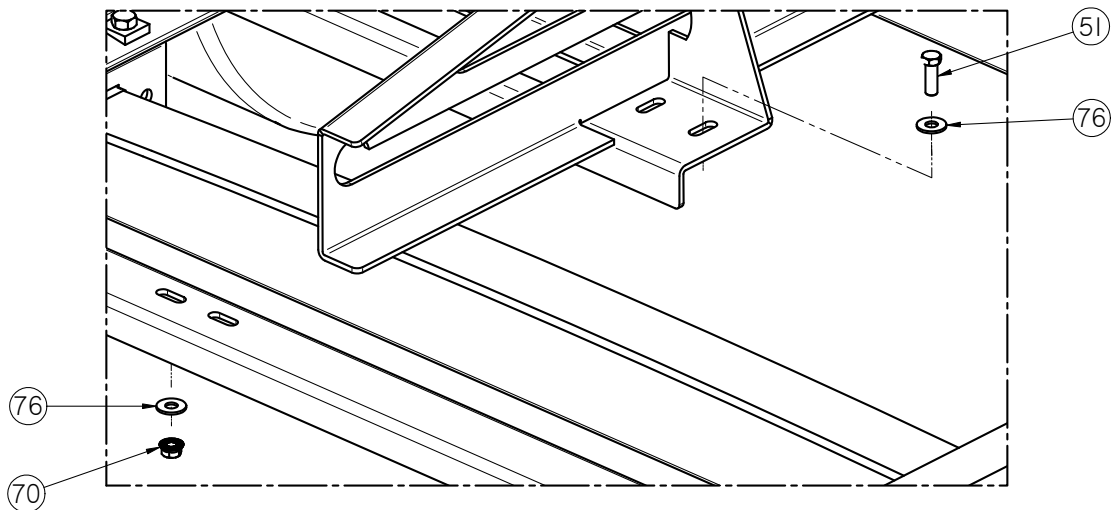


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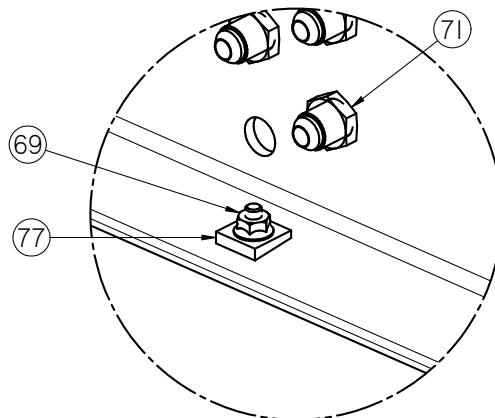
**TRANSFORMER TOP ASSEMBLY (13-14-0012)**



DETAIL G



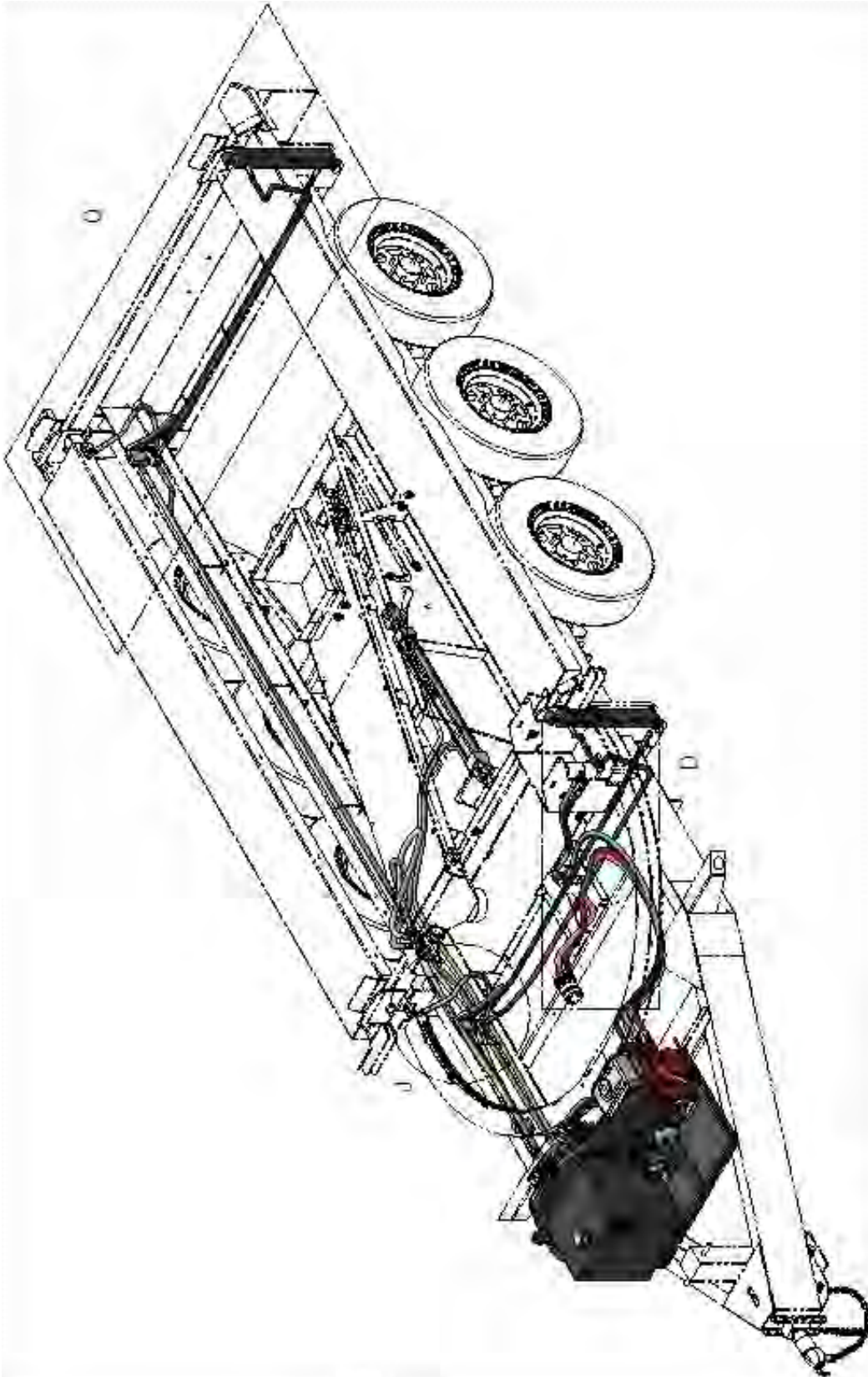
DETAIL H



DETAIL P

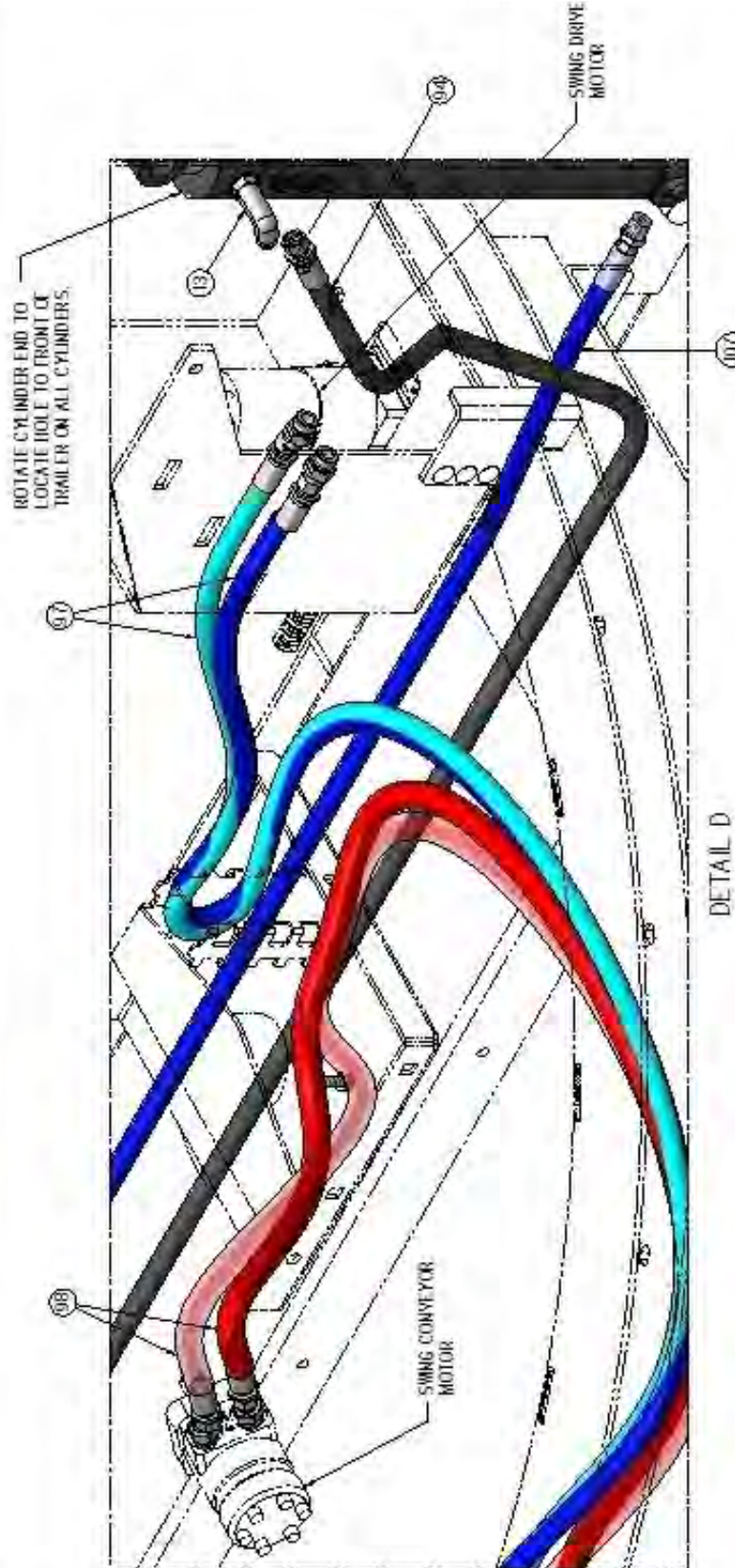
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**TRANSFORMER TOP ASSEMBLY (13-14-0012)**



FLXTOR TRANSFORMER

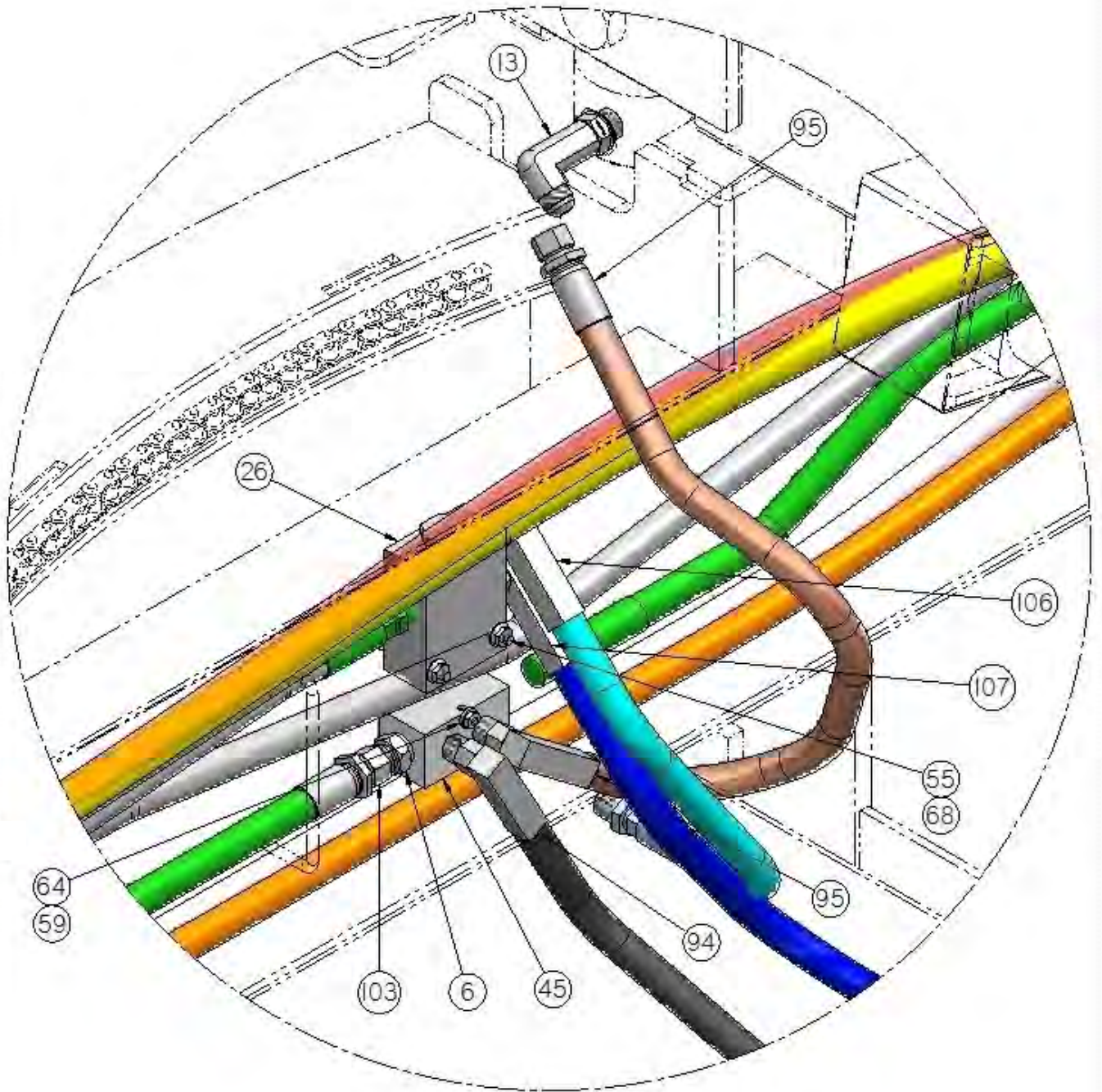
**TRANSFORMER TOP ASSEMBLY (13-14-0012)**





FLXTOR TRANSFORMER

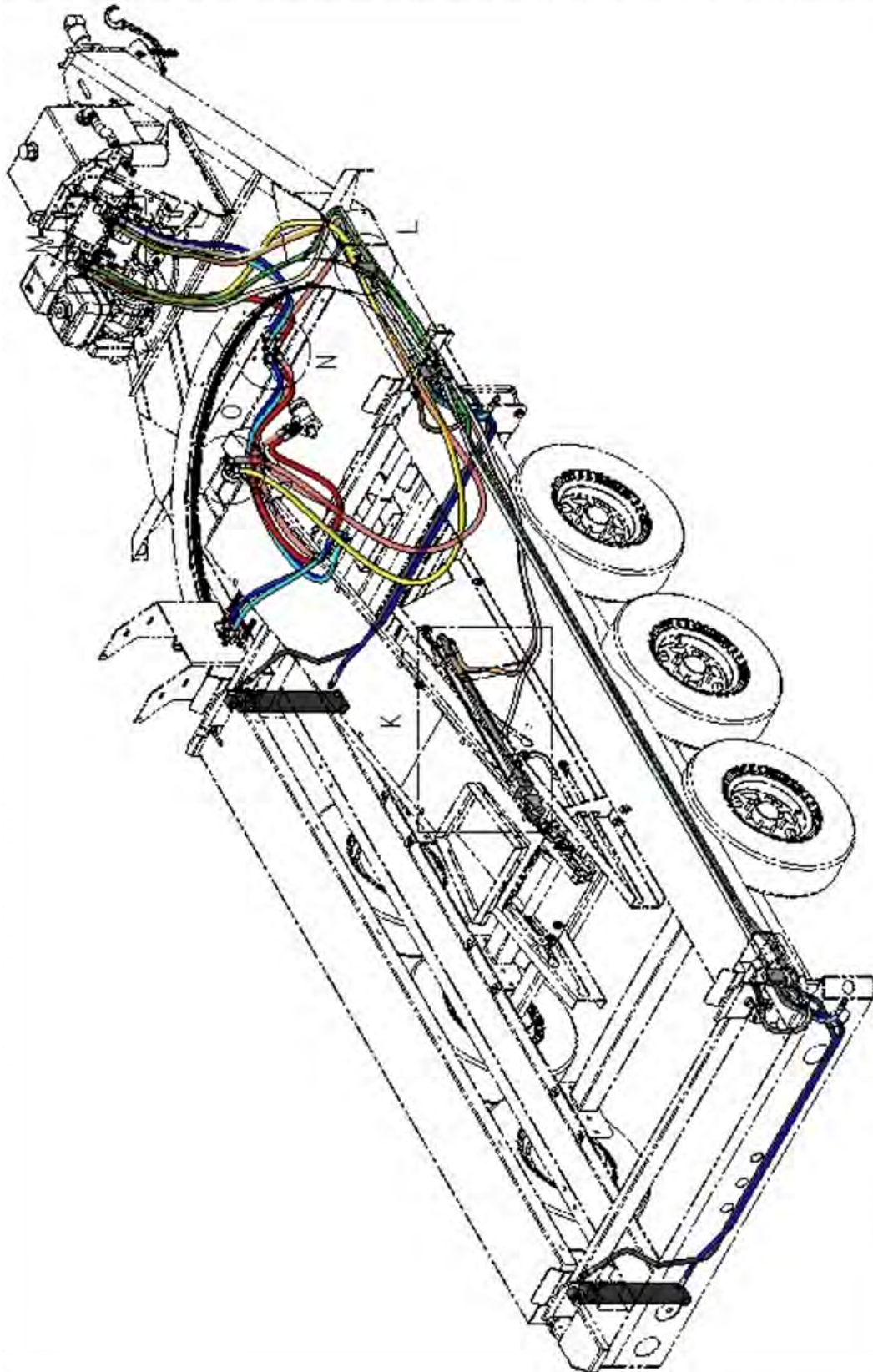
**TRANSFORMER TOP ASSEMBLY (13-14-0012)**



DETAIL J

FLXTOR TRANSFORMER

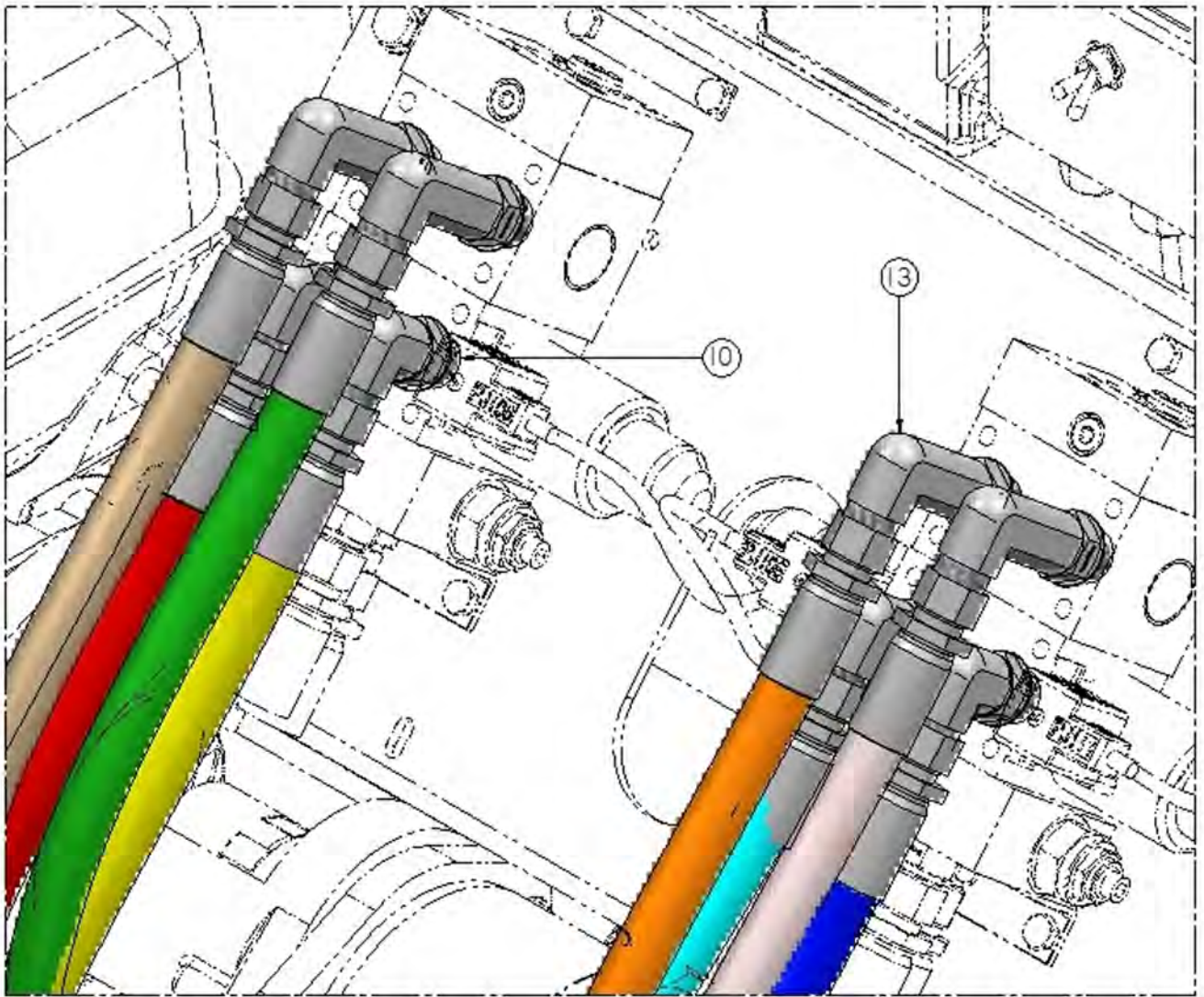
**TRANSFORMER TOP ASSEMBLY (13-14-0012)**





FLXTOR TRANSFORMER

**TRANSFORMER TOP ASSEMBLY (13-14-0012)**

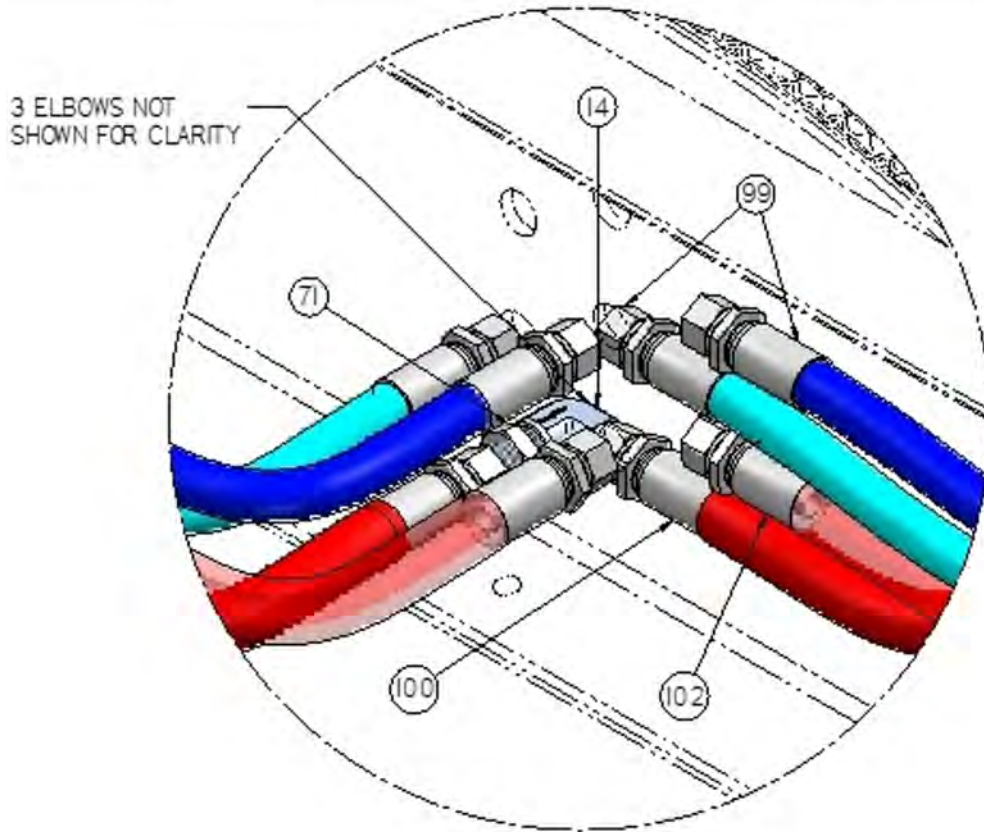


DETAIL M

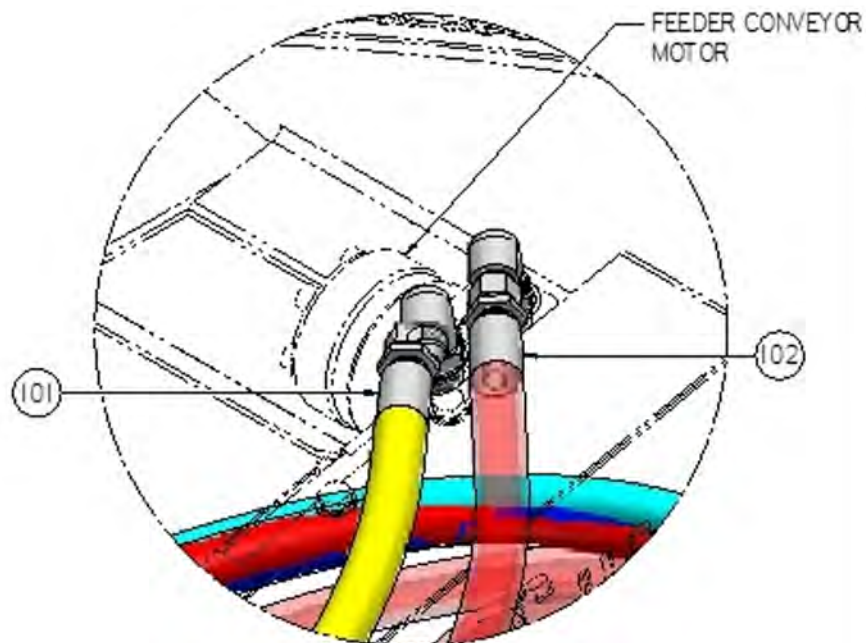


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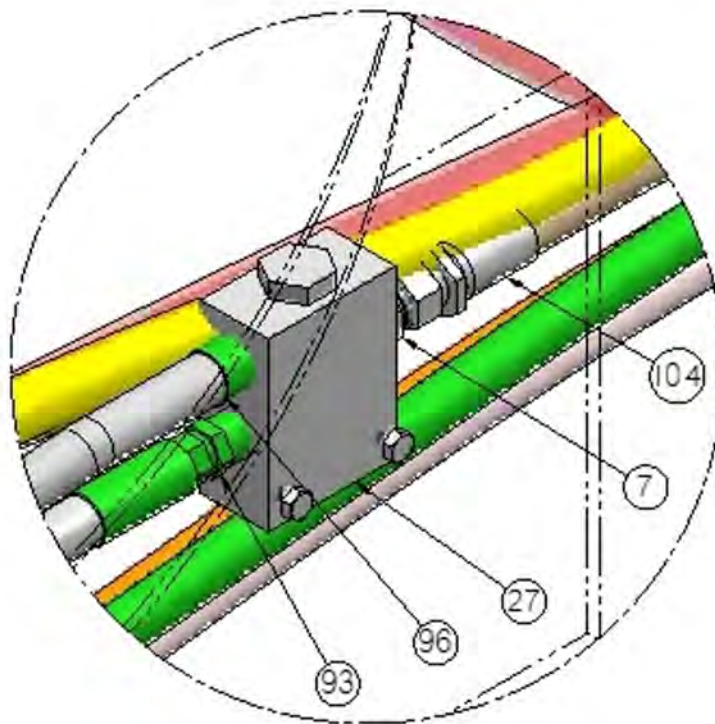
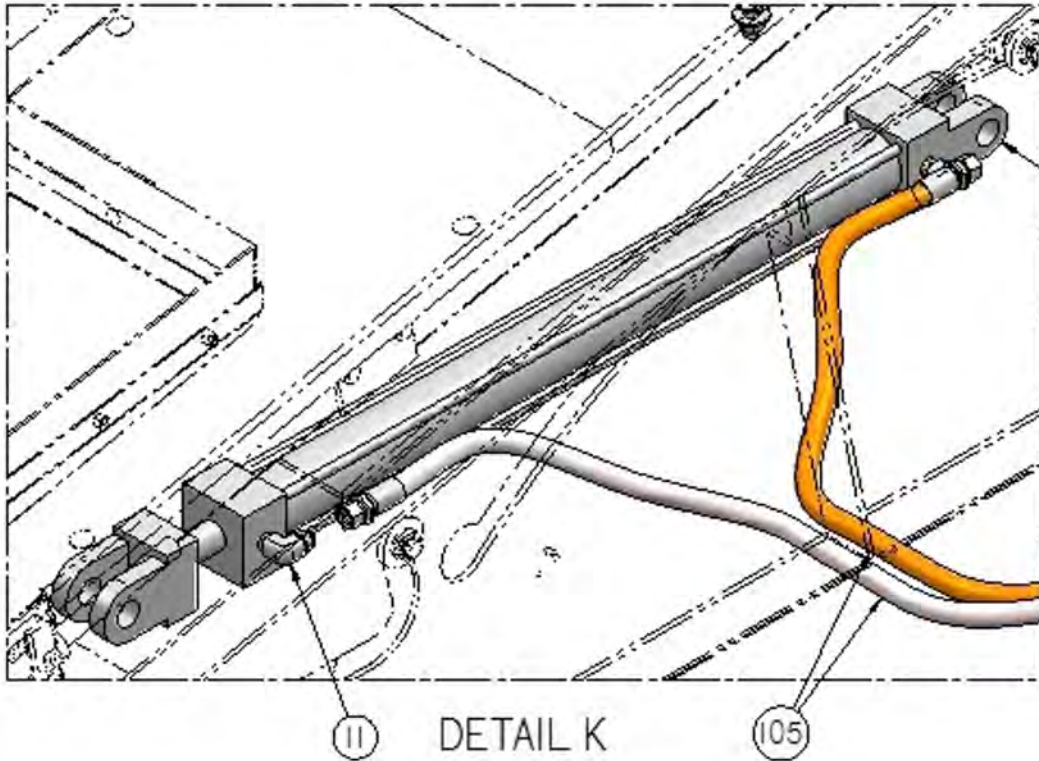
DETAIL N



DETAIL O

FLXTOR TRANSFORMER

**TRANSFORMER TOP ASSEMBLY (13-14-0012)**

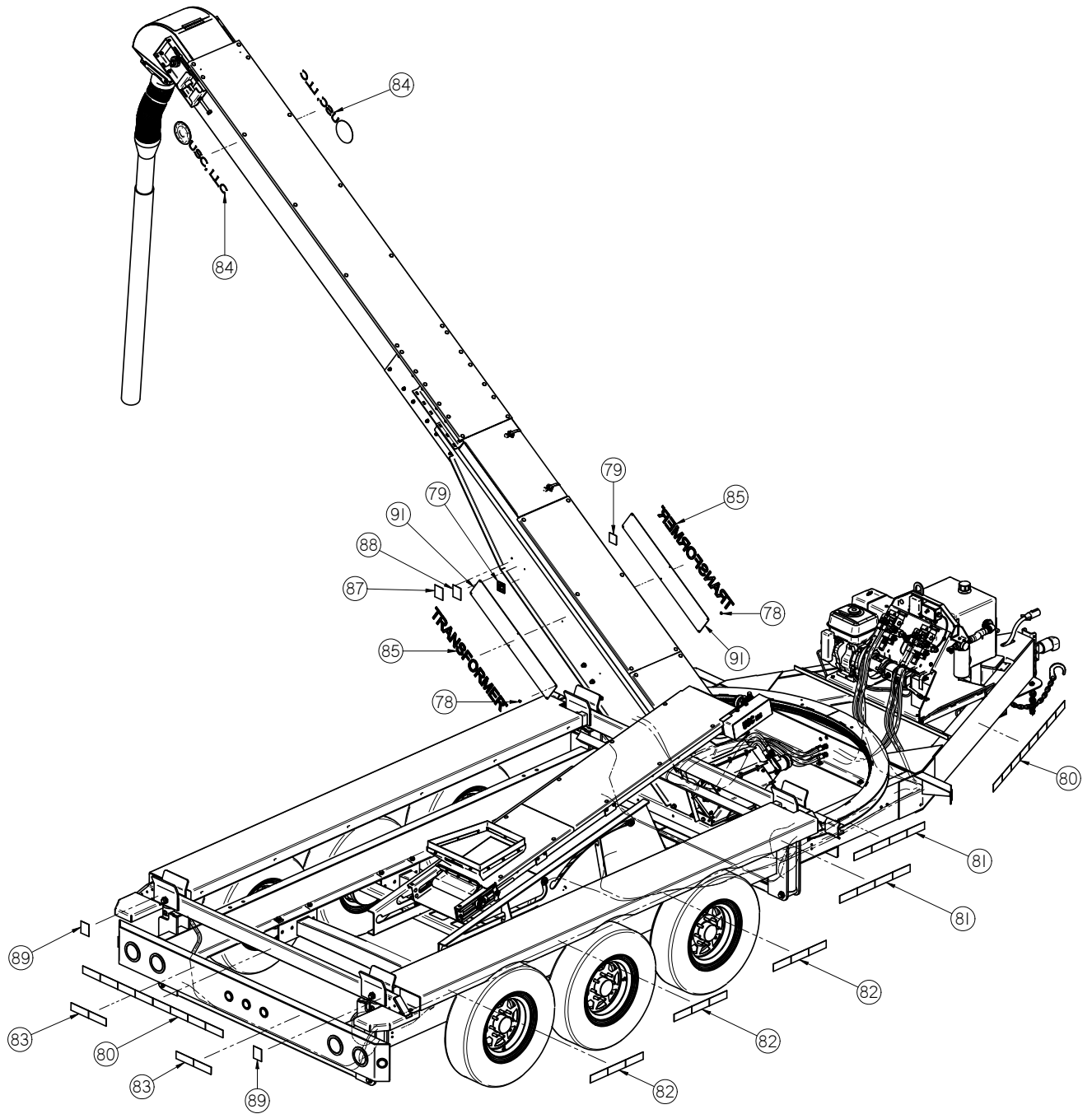


DETAIL L



FLXTOR TRANSFORMER

**TRANSFORMER TOP ASSEMBLY (13-14-0012)**





FLXTOR TRANSFORMER  
**TRANSFORMER TOP ASSEMBLY (13-14-0012)**

Item #	Part #	Description	Qty
1	01-01-0206	HYD PWR PKG 13HP 10-5GPM 1500PSI *	1
2	01-04-0087	CARABINER CONNECTOR 400LB LOAD LIMIT	1
3	01-06-0045	WHEEL ASSY ST235-80-R16 0 OFFSET	4
4	01-06-0065	SAFETY CHAIN .3125 X 35IN W-LATCH	2
5	02-03-0030	6IN SD TNR TELESCOPIC SPOUT	1
6	02-05-0075	FTTG HYD STGHT 8MJ-8MP	1
7	02-05-0077	FTTG HYD STGHT 8MJ-6MOR	1
8	02-05-0078	FTTG HYD STGHT 8MJ-10MOR	4
9	02-05-0083	FTTG HYD STGHT ORF .078 8MJ-8FJ	2
10	02-06-0058	FTTG HYD 90 DEG 8MJ-8MOR	4
11	02-06-0062	FTTG HYD 90 DEG 8MJ-6MP	2
12	02-06-0066	FTTG HYD 90 DEG 8MJ-10MOR	2
13	02-06-0067	FTTG HYD 90 DEG 8MJ-8MOR XX-LONG	8
14	02-06-0074	FTTG HYD 90 DEG 8MJ-8MJ BLKHD	4
15	02-14-0001	FTTG PLUG SQHD .500 NPT SS	1
16	03-05-0051	JB UB CVR BLANK MTL	1
17	03-10-0013	2" dia amber light	2
18	03-10-0014	2" dia red light	5
19	03-10-0015	TRLR LGHT BRAKE RND RED 4.00IN LED	4
20	03-14-0002	TRAILER BREAK AWAY CONTROL BOX	1
21	03-14-0002	TRAILER BREAK AWAY SWITCH	1
22	03-14-0005	TRLR LGHT GRMT AND PGTL*	7
23	03-14-0006	TRLR LGHT PGTL FOR 4.00IN RND LED	4
24	03-14-0007	TRLT LGHT GRMT RBBR FOR 4.00 RND	4
25	03-14-0008	TRLR CORD 8FT WITH 7 POLE PLUG	1
26	03-17-0034	FD 10GPM HYDRAFORCE FD10-44-6T-N-22	2
27	03-17-0035	FD 5GPM HYDRAFORCE FD10-44-6T-N-44	1
28	03-17-0069	CYL HYD WELD 14IN STROKE 3IN ID	4
29	05-03-0387	WDMT UPPER PIVOT BRKT	1
30	05-03-0391	WDMT SPD TNR TRLR	1
31	05-03-0401	WDMT SPD TNR FRNT STOP	2
32	05-03-0413	WDMT DSCHG SPOUT 13IN WIDE	1
33	05-03-1613	WDMT PIN .5 DIA RG GRIP	1
34	05-06-0055	WDMT FENDER SPD RT	1
35	05-06-0056	WDMT FENDER SPD LT	1
36	05-07-0205	ASSY SPD 713 RETR CNVR	1

FLXTOR TRANSFORMER  
**TRANSFORMER TOP ASSEMBLY (13-14-0012)**

Item #	Part #	Description	Qty
37	05-08-0081	ASSY SEED TENDER CNVR DRIVE	1
38	5/10/2362	PLT 1713 CNVR SUPP RT	1
39	5/10/2364	PLT 1713 CNVR SUPP LT	1
40	5/10/2798	BRG, UHMW DISK 11.5 X 1.25 X 0.25	1
41	5/10/2799	BRG, UHMW DISK, 1/4 X 11.5	1
42	5/10/2800	SHIM, CS DISK 11.5 X 1.25 X 0.25	3
43	5/10/2801	PIVOT CAP 3 HOLE	1
44	5/10/4247	BRKT SUPP HYD HOSE	1
45	05-11-0183	MANIFOLD 2 IN-OUT .50--.375	2
46	06-01-0006	BOLT .250-20 X .750 ZP GR5	4
47	06-01-0008	BOLT, .250-20 X 1 1/4" UNC ZP GRADE 5	1
48	06-01-0012	BOLT .313-18 X 1.00 ZP GR5	2
49	06-01-0018	BOLT .375-16 X 1.50 ZP GR5	3
50	06-01-0021	BOLT .375-16 X 3.00 ZP GR5	6
51	06-01-0025	BOLT .500-13 X 1.50 ZP GR5	6
52	06-01-0062	BOLT CRG .500-13 X 1.125 ZP GR5	10
53	06-01-0069	BOLT .500-13 X 1.00 ZP GR5	2
54	06-01-0071	BOLT .375-16 X 2.50 ZP GR5	4
55	06-01-0097	BOLT .250-20 X 2.00 ZP GR5	6
56	06-01-0115	BOLT CRG .375-16 X 1.00 ZP GR5	6
57	06-01-0124	BOLT FLG .375-16 X .750 ZP GR5	4
58	06-01-0140	SCRW MACH 10-32 X .500 ZP PHLP RND	1
59	06-01-0141	SCRW MACH 10-32 X 2 ZP HEX	4
60	06-01-0153	BOLT CRG .375-16X.750 ZP SHORT NECK	6
61	06-01-0166	BOLT,1.00-8 X 4.00 UNC ZP GRADE 8	4
62	06-01-0168	BOLT, 1.00-8 X 5 1/2 UNC ZP GRADE 8	4
63	06-01-0189	BOLT FLG .375-16 X 1.250 ZP GR5	3
64	06-02-0040	NUT, #10-32 ZP SERRATED FLANGE NUT	5
65	06-02-0049	NUT NYL LOCK 1.00-8 ZP GR5	8
66	06-03-0001	NUT,LOCK, .250-20 ZP G5 NYLON INSERT	1
67	06-03-0002	NUT NYL LOCK .313-18 ZP GR5	2
68	06-03-0013	NUT,LOCK, FLG .250-20 ZP SERRATED	6
69	06-03-0014	NUT LOCK FLG .375-16 ZP GR5	29
70	06-03-0015	NUT LOCK FLG .500-13 ZP GR5	16
71	06-03-0023	NUT LOCK -8 JIC BLKHD	4
72	06-04-0003	WSHR LOCK SPLT .375 ZP	3

FLXTOR TRANSFORMER  
**TRANSFORMER TOP ASSEMBLY (13-14-0012)**

Item #	Part #	Description	Qty
73	06-05-0001	WASHER, FLAT .250	1
74	06-05-0003	WSHR FLAT .313 ZP	2
75	06-05-0004	WSHR FLAT .375 ZP	6
76	06-05-0005	WSHR FLAT .500 ZP	12
77	06-05-0016	WSHR BEVEL .500	3
78	06-12-0022	RIVET POP .188 X .312 GRIP SS .65HD	12
79	09-01-0003	ATWK LBL MADE IN USA YEL 2.50X2.50	2
80	09-01-0012	TRLR TAPE REFLECTIVE RED AND WHITE	3
81	09-01-0012	TRLR TAPE REFLECTIVE RED AND WHITE	4
82	09-01-0012	TRLR TAPE REFLECTIVE RED AND WHITE	6
83	09-01-0012	TRLR TAPE REFLECTIVE RED AND WHITE	4
84	09-01-0043	ATWL LBL USC, LLC 6" X 19" PRO-CUT	2
85	09-01-0058	LBL ATWK TRANSFORMER	2
86	09-02-0001	ATWK LBL DANGER FINGERS	2
87	09-02-0006	ATWK LBL CAUTION SAFETY	1
88	09-02-0007	ATWK LBL DANGER POWER LINES	1
89	09-02-0011	ATWK LBL WARNING MOVING PARTS	4
90	102D71	HOSE SUPP TNDR	1
91	103A51	PLT BKNG LBL TRANSFORMER	2
92	13-05-0117	SEED TENDER HYD HOSE 5	1
93	13-05-0118	SEED TENDER HYD HOSE 6	1
94	13-05-0120	SEED TENDER HYD HOSE 8	2
95	13-05-0122	SEED TENDER HYD HOSE 10	2
96	13-05-0123	SEED TENDER HYD HOSE 11	1
97	13-05-0285	ASSY HOSE 99.0IN - 08 FJX - 08 FJX	2
98	13-05-0286	ASSY HOSE 102.0IN - 08 FJX - 08 FJX	2
99	13-05-0287	ASSY HOSE 39.0IN - 08 FJX - 08 FJX	2
100	13-05-0288	ASSY HOSE 54.0IN - 08 FJX - 08 FJX	1
101	13-05-0289	ASSY HOSE 171.0IN - 08 FJX - 08 FJX	1
102	13-05-0290	ASSY HOSE 162.0IN - 08 FJX - 08 FJX	3
103	13-05-0335	ASSY HOSE 94.0IN - 08 FJX - 08 FJX	1
104	13-05-0336	ASSY HOSE 70.0IN - 08 FJX - 08 FJX	1
105	13-05-0337	ASSY HOSE 165.0IN - 08 FJX - 08 FJX	2
106	13-05-0338	ASSY HOSE 21.0IN - 06MOR90 - 08MOR	2
107	13-05-0339	ASSY HOSE 79.0IN - 06MOR90 - 08MOR	2
108	13-08-0016	CNVR 2013 W/2" CLEATS @6"	1



**USC LIMITED WARRANTY****SECTION  
G**

USC, LLC, (Manufacturer) warrants its seed treating equipment as follows:

1. **Limited Warranty:** Manufacturer warrants that the Products sold hereunder will be free from defects in material and workmanship for a period of 18 months from date of shipment. If the Products do not conform to this Limited Warranty during the warranty period, Buyer shall notify Manufacturer in writing of the claimed defects and demonstrate to Manufacturer satisfaction that said defects are covered by this Limited Warranty. If the defects are properly reported to Manufacturer within the warranty period, and the defects are of such type and nature as to be covered by this warranty, Manufacturer shall, at its expense, furnish replacement Products or, at Manufacturer's option, replacement parts for the defective products. Shipping and installation of the replacement Products or replacement parts shall be at the Buyer's expense.

2. **Other Limits:** THE FOREGOING IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Manufacturer does not warrant against damages or defects arising from improper installation (where installation is by persons other than Manufacturer), against defects in products or components not manufactured by Manufacturer, or against damages resulting from such non-Manufacturer made products or components. Manufacturer passes on to the Buyer the warranty it received (if any) from the maker of such non-Manufacturer made products or components. This warranty also does not apply to Products upon which repairs and / or modifications have been effected or attempted by persons other than pursuant to written authorization by Manufacturer. This includes any welding on equipment which could damage electrical components. Manufacturer does not warrant against casualties or damages resulting from misuse and / or abuse of Products, improper storage or handling, acts of nature, effects of weather, including effects of weather due to outside storage, accidents, or damages incurred during transportation by common carrier.

3. **Exclusive Obligation:** THIS WARRANTY IS EXCLUSIVE. The sole and exclusive obligation of Manufacturer shall be to repair or replace the defective Products in the manner and for the period provided above. Manufacturer shall not have any other obligation with respect to the Products or any part thereof, whether based on contract, tort, strict liability or otherwise. Under no circumstances, whether based on this Limited Warranty or otherwise, shall Manufacturer be liable for lost profits, lost revenue, lost sales (whether direct or indirect damages), incidental, special, punitive, indirect or consequential damages.

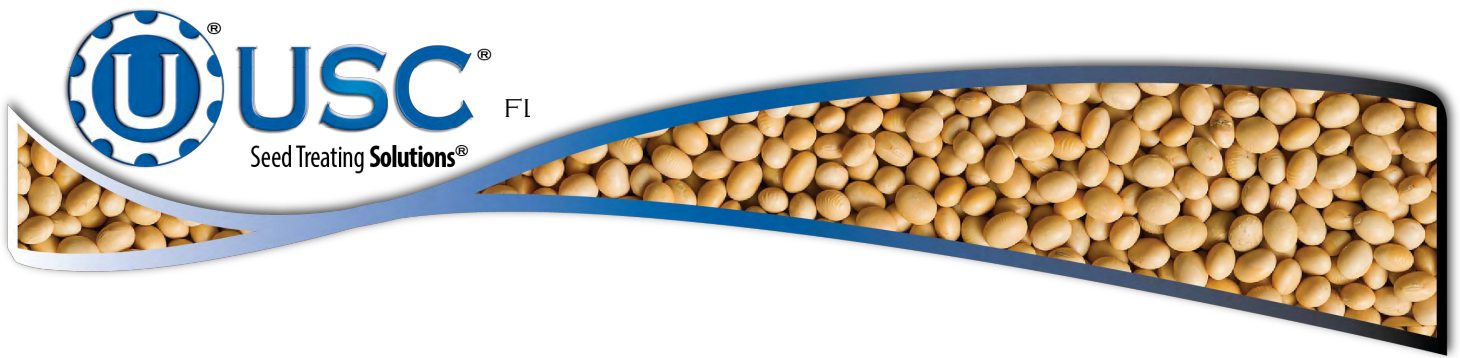
4. **Other Statements:** Manufacturer's employees or representatives' oral or other written statements do not constitute warranties, shall not be relied upon by Buyer, and are not a part of the contract for sale or this limited warranty.

5. **Return Policy:** Approval is required prior to returning goods to Manufacturer. A restocking fee will apply.

6. **Entire Obligation:** This Limited Warranty states the entire obligation of Manufacturer with respect to the Products. If any part of this Limited Warranty is determined to be void or illegal, the remainder shall remain in full force and effect.

US / Canada Non-Exclusive 2016





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