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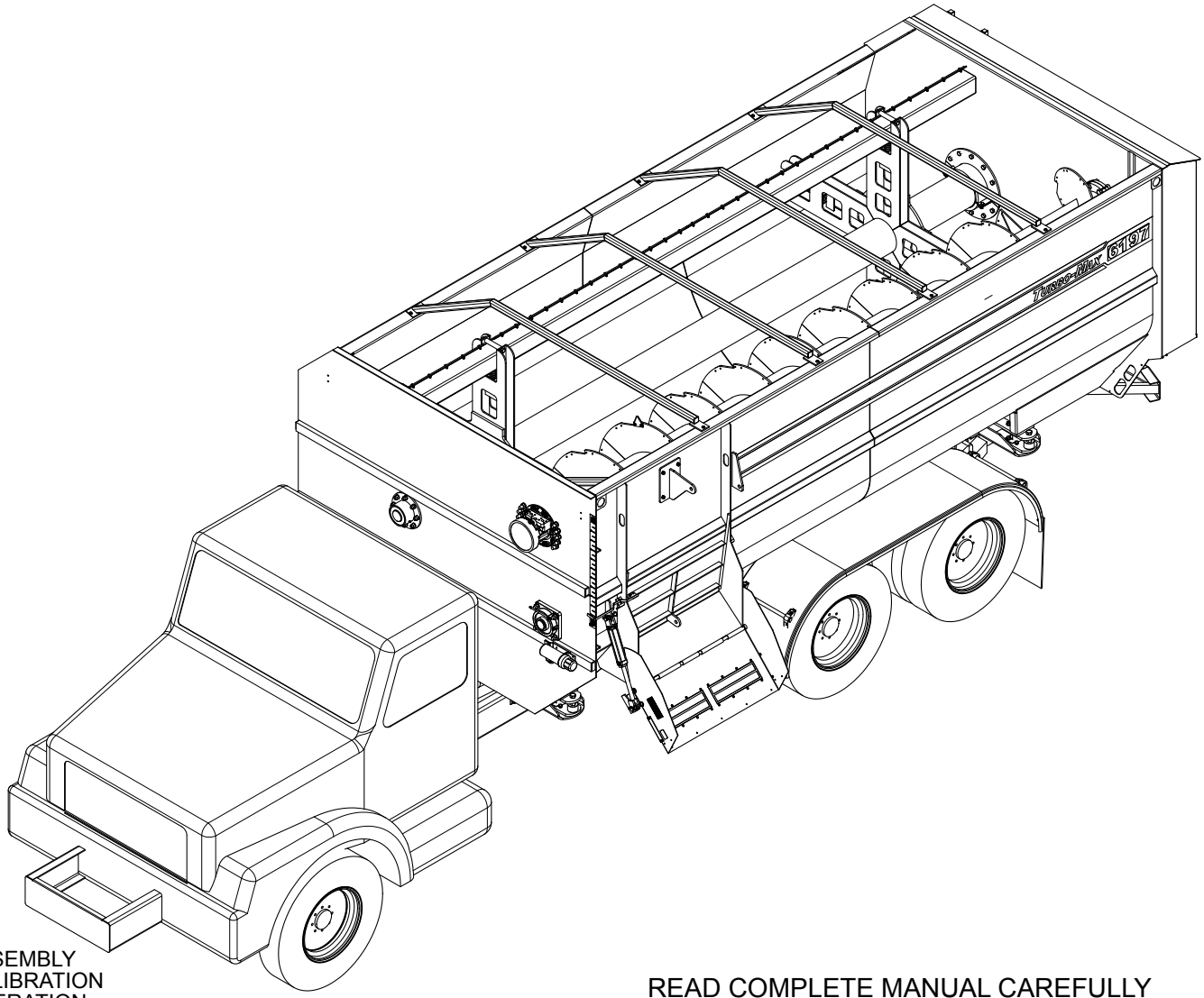
SIOUX AUTOMATION CENTER, INC.

**QUALITY PEOPLE, QUALITY PRODUCTS**

# *TURBO-MAX*

# *6177, 6197 SERIES TRUCK*

## *OPERATORS/PARTS MANUAL*




ASSEMBLY
CALIBRATION
OPERATION
REPLACEMENT PARTS

READ COMPLETE MANUAL CAREFULLY
BEFORE ATTEMPTING OPERATION

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# INTRODUCTION

Thank you for purchasing a Sioux Automation Turbo-Max 6100 series reel mixer. We feel you have made a wise choice and hope you are completely satisfied with your new piece of equipment. Your new 6100 series Turbo-Max is a durable, efficient, and easy to use unit. Proper care and use will result in many years of service.

**WARNING: TO AVOID PERSONAL INJURY OR DEATH, OBSERVE FOLLOWING INSTRUCTIONS:**

Never overload truck. Follow rating of chassis or rating of tires, whichever is less.

Ensure that anybody present is clear before applying power to any machinery used in conjunction with mixer box or when moving box.

Never allow anyone in, near, or on mixing chamber during mixing, transporting, or unloading of feed.

## GENERAL INFORMATION

1. Unless otherwise specified, high-strength (grade5) (3 radial-line head markings) hex head bolts are used throughout assembly of this piece of equipment.

2. Whenever terms **"LEFT"** and **"RIGHT"** are used in this manual it means from a position behind the truck box and facing forward.

3. When placing a parts order, refer to this manual for proper part numbers and place order by **PART NO. and DESCRIPTION.**

4. Read assembly instructions carefully. Study assembly procedures and all illustrations before you begin assembly. Note which parts are used in each step. This unit must be assembled in proper sequence or complications will result.

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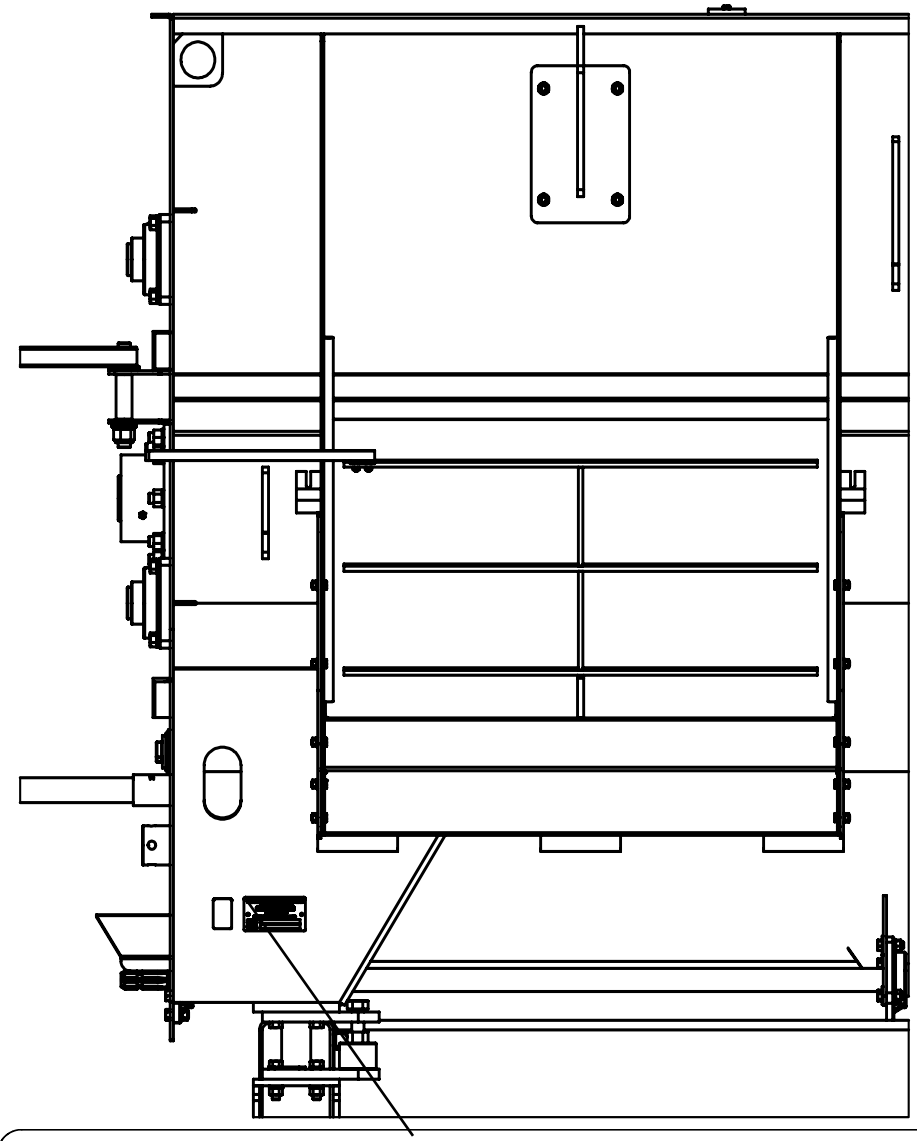
# MODEL AND SERIAL NUMBER IDENTIFICATION

Your model and serial numbers can be located on the front left hand side of the mixer. Please copy this information and write them down inside of this manual. This will allow easy reference if the ordering of parts should become necessary.



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MODEL

SERIAL

# SAFETY

**TAKE NOTE! THIS SAFETY ALERT SYMBOL FOUND THROUGHOUT THIS MANUAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY AND THE SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH!**

## SAFETY, SIGNAL WORDS

**THIS SYMBOL MEANS**

**ATTENTION!**

**BECOME ALERT!**

**YOUR SAFETY IS INVOLVED!**

### SIGNAL WORDS

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

### DANGER:

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

### WARNING:

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

### CAUTION:

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

# SAFETY...YOU CAN LIVE WITH IT

## EQUIPMENT SAFETY GUIDELINES

Every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, and you yourself, follow them.

In order to provide a better view, certain illustrations in this manual may show an assembly with a safety shield removed. However, equipment should never be operated in this condition. Keep all shields in place. If shield removal becomes necessary for repairs, replace shield prior to use.

Replace any CAUTION, WARNING, DANGER or instruction safety decal that is not readable or is missing. Location of such decals is indicated in this manual. The part numbers for the decals are located in the lower right hand corner of the decal, and listed in this manual on the following pages.

Do not attempt to operate this equipment under the influence of alcohol or drugs.

Review safety instructions with all users annually.

Operator should be a responsible adult. **DO NOT ALLOW PERSONS TO OPERATE OR ASSEMBLE THIS UNIT UNTIL THEY HAVE READ THIS MANUAL AND HAVE DEVELOPED A THOROUGH UNDERSTANDING OF THE SAFETY PRECAUTIONS AND PROPER OPERATIONAL PROCEDURES.**

Do not paint over, remove, or deface any safety signs or warning decals on your equipment. Observe all safety signs and practice the instructions on them.

Never exceed limits of a piece of machinery. If its ability to do a job, or to do so safely is in question **DON'T TRY IT**.

## LIGHTING AND MARKING

It is the responsibility of customer to know lighting and marking requirements of the local highway authorities and to install and maintain the equipment to provide compliance with the regulations. Add extra lights when transporting at night or during periods of limited visibility. Lighting kits are available from your dealer or from manufacturer.

## SAFETY SIGN CARE

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing or have become illegible.
- Replaced parts that displayed safety signs should also display current safety sign.
- Safety signs are available from your distributor, dealer parts department, or the factory.

**How to install safety signs:**

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

## TIRE SAFETY

- Failure to follow proper procedures when mounting a tire on a rim can produce an explosion which may result in a serious injury or death.
- Do not attempt to mount a tire unless you have proper equipment and experience to do the job.
- Inflating or servicing tires can be dangerous. Whenever possible, trained personnel should be called to service and/or mount tires.
- Always order and install tires and wheels with appropriate type and load capacity to meet or exceed anticipated weight to be placed on the equipment.

## REMEMBER

**Your best assurance against accidents is a careful and responsible operator. If there is any portion of this manual or function you do not understand, contact your local authorized dealer or manufacturer.**

## BEFORE OPERATION:

- Carefully study and understand this manual.
- Do not wear loose-fitting clothing which may catch in moving parts.
- Always wear protective clothing and substantial shoes.
- It is recommended that suitable hearing and eye protection be worn.
- Operator may come in contact with certain materials which may require specific safety equipment relative to handling of such materials.
- Keep wheel and lug nuts tightened to specified torque.
- Assure that truck tires are inflated evenly.
- Give unit a visual inspection for any loose bolts, worn parts or cracked welds, and make necessary repairs. Follow the maintenance safety instructions included in this manual.
- Be sure there are no tools lying on or in equipment.
- Do not use unit until you are sure that area is clear, especially around children and animals.
- Don’t hurry the learning process or take the unit for granted. Ease into it and become familiar with your new equipment.
- Practice operation of your equipment and its attachments. Completely familiarize yourself and other operators with its operation before using..
- Make sure that brakes are evenly adjusted.
- Fasten your seatbelt prior to starting engine.

## DURING OPERATION

- Be aware of bystanders, **PARTICULARLY CHILDREN!** Always look around to make sure that it is safe to start the engine or to move the unit. This is particularly important with higher noise levels and quiet cabs, as you may not hear people shouting.
- **NO PASSENGERS ALLOWED**- Do not allow anyone to ride on or inside the mixer at any time!
- Keep hands and clothing clear of moving parts.
- Do not clean, lubricate, or adjust your equipment while it is moving.
- When halting operation, even periodically, set parking brakes, disengage PTO, shut off engine, and **remove ignition key**.
- Be especially observant of the operating area and terrain. Watch for holes, rocks, or other hidden hazards. Always inspect area prior to operation.
  - DO NOT operate near edge of drop-offs or banks.
  - DO NOT operate on steep slopes as rollover may result.
  - Operate up and down (not across) intermediate slopes. Avoid sudden starts and stops.
- Pick the most level possible route when transporting across fields. Avoid edges of ditches, gullies, and steep hillsides.
- Be extra careful when working on inclines.
- Maneuver truck at safe speeds.
- Avoid overhead wires or other obstacles. Contact with overhead lines could cause serious injury or death.
- Avoid loose gravel, rocks, and holes; they can be dangerous for equipment operation or movement.
- Allow for unit length when making turns.
- Do not walk or work under raised components or attachments unless securely positioned and blocked.
- Keep all bystanders, pets, and livestock clear of work area.
- Operate truck from operators seat only.
- Never stand alongside of unit with engine running or attempt to start engine and/or operate machine while standing alongside of unit.
- Never leave running equipment unattended.
- As a precaution, always recheck hardware on equipment following every 100 hours of operation. Correct all problems. Follow maintenance safety procedures.
- Never hand feed materials into mixer while it is running. Rotating augers inside mixer may not be visible from the loading point, and may cut or grab hands, clothing, or material being loaded, causing severe injury. Always stop tractor engine before hand loading materials.
- Do not allow operation of this unit by inexperienced or unqualified people. Keep all unqualifed people away from the mixer during operation. Operators of this unit must be alert and use good judgement at all times. Operator should not climb on ladder or any part of the mixer when loading, mixing, or unloading material.

- Be sure the inside of the mixer is clear of any obstruction before operating and that all shields are in place. This includes any truck or driveline shields. Repair or replace any damaged or missing shielding. Exposed shafts can grab hands and clothing, resulting in severe injury or death.

- Use caution when working around the discharge area. Stay clear of power chute & slide tray. These are controlled from the cab and could operate without warning, creating pinch points which could cause severe injury or death. Always disengage the PTO, stop the engine, and remove the ignition key before working near the discharge area.

- Never attempt to release jammed materials or clean materials from any area of the mixer or discharge chute without stopping engine and removing driveline first. Moving parts can be hidden by materials, and stopped parts can start unexpectedly, causing severe injury. Always disengage the PTO, stop the engine, and remove the ignition key before attempting to remove jammed material or to clean.

- Never put arms or feet inside unit, power chute, or near discharge door opening, nor climb on or in the mixer while it is running. NEVER allow anyone to position themselves over or near the top of the mixer while it is running. Rotating augers and sprockets can grab clothing or create pinch points which can cause severe injury or death to the operator or bystanders. Always disengage the PTO, stop the engine, and remove the ignition key so that the mixer cannot be accidentally turned on while inspecting, servicing, repairing, or cleaning.

## FOLLOWING OPERATION

- Following operation return the hydrostat to the neutral position, set brakes, shut off engine, and **remove the ignition key**.

- Store unit in an area away from human activity.

- Do not park equipment where it will be exposed to livestock for long periods of time. Damage and livestock injury could result.

- Do not permit children to play on or around stored unit.

- Make sure all parked machines are on a hard, level surface and engage all safety devices.

- Wheel chocks may be needed to prevent unit from rolling.

## HIGHWAY AND TRANSPORT OPERATIONS

- If equipment is going to be transported on a public highway always follow state and local regulations. Be sure to check with local law enforcemen agencies for your own particular regulations. The end user is responsible for federal, state, and local vehicle safety regulation compliance (i.e. requirements for weight, lighting, etc.)

- Adopt safe driving practices:

  - Always drive at a safe speed relative to local conditions, ensure that your speed is low enough for an emergency stop. Keep speed to a minimum.

  - Reduce speed prior to turns to avoid risk of overturning.

  - Always keep truck in gear to provide engine braking when going downhill. Do not coast.

  - Do not drink and drive!

- Comply with state and local laws governing highway safety and movement of farm machinery on public roads.

- Use approved accessory lighting, flags and necessary warning devices to protect operators of other vehicles on highway during transport. Various safety lights and devices are available from your dealer.

- Plan your route to avoid heavy traffic.
- Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.
- Be observant of bridge load ratings. Do not cross bridges rated lower than gross weight at which you are operating.
- Watch for obstructions overhead and side to side while transporting.
- Always operate equipment in a position to provide maximum visibility. Make allowances for increased length and weight of equipment when making turns, stopping unit, etc.

## PERFORMING MAINTENANCE

- Good maintenance is your responsibility. Poor maintenance is an invitation for trouble.
- Make sure there is plenty of ventilation. Never operate engine in a closed building. Exhaust fumes may cause asphyxiation.
- Before working on this machine, stop truck, set brakes, shut off engine and **remove ignition key**.
- Always use safety support and block wheels. Never use a jack to support machine.
- Always use proper tools or equipment for job at hand.
- Use extreme caution when making adjustments.
- Follow torque chart in this manual when tightening bolts and nuts.
- Never use your hands to locate a hydraulic leak on attachments. Use a small piece of cardboard or wood. Hydraulic fluid escaping under pressure can penetrate skin.
- Openings in skin and minor cuts are susceptible to infection from hydraulic fluid. **Without immediate medical treatment, serious infection and reactions can occur.**
- When disconnecting hydraulic lines, shut off hydraulic supply and relieve all hydraulic pressure.
- Replace **all shields** and **guards** after servicing and before moving equipment.
- After servicing, be sure all tools, parts, and service equipment are removed.
- Do not allow grease or oil to build up on any step or platform.
- When replacing bolts, refer to owner's manual.
- Refer to bolt torque chart for head identification marking.
- Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications. Manufacturer will not claim responsibility for use of unapproved parts or accessories and other damages as a result of their use.
- If equipment has been altered in any way from original design, manufacturer does not accept any liability for injury or warranty.
- A fire extinguisher and first aid kit should be kept readily accessible while performing maintenance on this equipment.

# BOLT TORQUE
# TORQUE DATA FOR STANDARD NUTS, BOLTS, AND CAPSCREWS.

Tighten all bolts to torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt chart as guide. Replace hardware with same grade bolt.

NOTE: Unless otherwise specified, high-strength Grade 5 hex bolts are used throughout assembly of equipment.

## Torque Specifications

### Bolt Torque for Standard bolts *

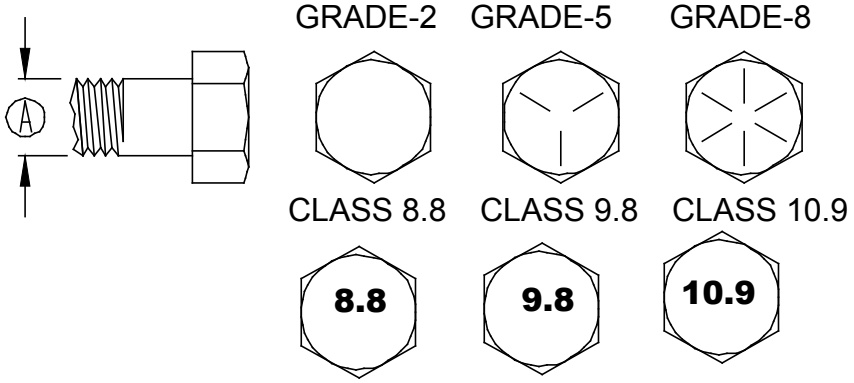
| "A" | GRADE 2 lb-ft | GRADE 2 (N.m) | GRADE 5 lb-ft | GRADE 5 (N.m) | GRADE 8 lb-ft | GRADE 8 (N.m) |
|---|---|---|---|---|---|---|
| 1/4" | 6 | (8) | 9 | (12) | 12 | (16) |
| 5/16" | 10 | (13) | 18 | (25) | 25 | (35) |
| 3/8" | 20 | (27) | 30 | (40) | 45 | (60) |
| 7/16" | 30 | (40) | 50 | (70) | 80 | (110) |
| 1/2" | 45 | (60) | 75 | (100) | 115 | (155) |
| 9/16" | 70 | (95) | 115 | (155) | 165 | (220) |
| 5/8" | 95 | (130) | 150 | (200) | 225 | (300) |
| 3/4" | 165 | (225) | 290 | (390) | 400 | (540) |
| 7/8" | 170 | (230) | 420 | (570) | 650 | (880) |
| 1" | 225 | (300) | 630 | (850) | 970 | (1310) |

### Bolt Torque for Metric bolts *

| "A" | CLASS 8.8 lb-ft | CLASS 8.8 (N.m) | CLASS 9.8 lb-ft | CLASS 9.8 (N.m) | CLASS 10.9 lb-ft | CLASS 10.9 (N.m) |
|---|---|---|---|---|---|---|
| 6 | 9 | (13) | 10 | (14) | 13 | (17) |
| 7 | 15 | (21) | 18 | (24) | 21 | (29) |
| 8 | 23 | (31) | 25 | (34) | 31 | (42) |
| 10 | 45 | (61) | 50 | (68) | 61 | (83) |
| 12 | 78 | (106) | 88 | (118) | 106 | (144) |
| 14 | 125 | (169) | 140 | (189) | 170 | (230) |
| 16 | 194 | (263) | 216 | (293) | 263 | (357) |
| 18 | 268 | (363) | -- | -- | 364 | (493) |
| 20 | 378 | (513) | -- | -- | 515 | (689) |
| 22 | 516 | (699) | -- | -- | 702 | (952) |
| 24 | 654 | (886) | -- | -- | 890 | (1206) |

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

* GRADE or CLASS value for bolts and capscrews are identified by their head markings.



## HORSEPOWER REQUIREMENTS

- PTO horsepower requirements are based on most normal dairy or beef rations. Horsepower requirements may vary depending on the ration or material to be mixed.

# MIXER SETUP

To avoid personal injury: The hopper floor may be slippery and the auger can spin unexpectedly when stepped on. Use caution when stepping or standing inside the unit, place a protective cover over the auger knives when work inside the box is required.

## POWER CHUTE ADJUSTMENT (OPTIONAL)

- To adjust the height of the power chute, change the length of the link chains on the sides of the chute. For best performance, the unloading height should be set at the lowest height possible. The discharge tip-off on the power chute should be adjusted for correct magnet and discharge angle. Remove or loosen the upper bolts, pivot the tip off to the desired angles and reinstall or retighten all bolts.

## MIXER RUN-IN

- Check for proper assembly, adjustment, and lubrication. Check to see that there is adequate oil in the oil bath. If power chute is used, oil the roller chains. Check all bolt and set screws are tight.
- Be sure all shields are properly in place.
- Check for and remove any foreign objects in the mixer hopper and discharge opening.
- Check to see that drain plugs are installed and the door is closed.
- Be sure no one is inside the mixer.
- Test run the mixer.
    - Make sure mixer is empty, then start the mixer.
    - Run for at least five minutes at 1500 to 1800 engine RPM.
    - Raise and lower the door and operate the chute/slide tray several times.
    - Disengage the mixer and turn off the engine and remove the key from the ignition.
    - Check the mixer drive components to be sure they are not abnormally hot.

**If any of these items are not running as indicated, immediately repair or contact your service representative.**

# MIXER OPERATION

Always refer to Equipment Safety Guidelines & Before Operation sections of this manual before operating this mixer.

## GENERAL

- The Turbo-Max Mixer was designed for blending dairy and beef rations. Most commonly used ingredients, including limited amounts of dry stem hay, can be mixed quickly and uniformly in this mixer. If you have questions regarding your feed ration or have other applications, please contact Sioux Automation Center, Inc.

- The Turbo-Max Mixer mixing performance can vary greatly according to the differences in materials, loading sequence, mixing speed, and unloading methods.

## SAFETY

- When the mixer is in operation it has many moving parts which could cause severe injury or death to persons coming in contact with these parts. To help avoid serious accidents, please read and understand this manual.

## LIMITATIONS

- **Do not load hay without** other dry commodities in the mixer first to act as a carrier or “lubricant”.

- **Do not overload hay content**, Sioux Automation Center Inc. recommends up to 15%-20% of hay by weight in the load. Exceeding this percentage can decrease mixing performance or could potentially damage mixer and cause premature wear on driveline components.

## WARNINGS

- **Do not use tough hay** (20%-60% moisture) Always used cured, dry hay. Wet hay, foreign objects or overloading may cause binding and damage to the mixer.

- **Keep in mind the overall size of the mixer** to allow clearance through doorways.

## MIXING TIME

- The mixer can mix an average load in 3 to 5 minutes. Due to this short mixing time, there is normally no reason to run the mixer during loading except to level the materials or to breakup hay.

## MIXING SPEED

- When deciding when and how fast to operate the mixer, factors such as ingredients being used, the thoroughness of the mix, and the time available to mix must be considered. Normal mixing speed is 1400 to 1800 engine RPM.

- Do not exceed rated PTO speed. When the mixer is operated faster than rated PTO speed the strain on the drive train and mixer is greatly increased.

# MIXER OPERATION

## MATERIAL THAT CAN BE LOADED DIRECTLY INTO THE MIXER

- Many different kinds of materials can be mixed with the Turbo-Max Mixer, but each kind of material has its own unique characteristics.

- **FORAGES-** Chopped hay, corn silage, and finely chopped crop residue can be mixed in the mixer. Wet and heavy forages added in large volumes may require more power to mix.

- **GRAINS-** Ground, rolled, flaked, and whole cereal grains, minerals, and concentrates, are all very easily mixed, and can improve the mixing performance of the other materials.

- **LIQUIDS-** Supplements and liquid fat can be blended in the mixer. Some operators prefer adding liquids into the empty mixer, and others add liquids on top of grains or roughage. Sticky liquids such as molasses tend to increase the power requirements.

## MATERIALS REQUIRING PREPERATION

- The following feed materials require some preparation or processing to be mixed in the Turbo-Max Mixer:
  - ALL LONG AND UNCURED GRASSES
  - ROUND BALES, LARGE SQUARE BALES
  - SMALL SQUARE BALES

## HAY QUALITY

- **Always use cured dry hay.** Tough hay can cause wrapping, binding and damage to mixer and can adversely effect the mixing performance. The following are some examples that contribute to tough hay conditions: high moisture content, high grass content, high density bales, outdoor storage, use of hay preservatives, and excessive stem length.

## LOADING AND MIXING

- **Prior to loading, check mixer for foreign objects and be sure door is fully closed.**

1. **Load Dry Commodities**
   - Adding ingredients like corn, soybean meal, and cottonseed will act as a carrier or “lubricant” if hay is included in the ration.
   - If there are few dry commodities in the ration, substituting corn silage or haylage is preferred.
   - Fill mixer between 1/3-1/2 full by volume in commodities and forage before adding the hay to the ration. This will allow enough room for the hay to expand and bring feed level up so the top auger can assist in processing.

2. **Load Hay**
   - Load processed hay. With the mixer running at 3/4 to full PTO speed, proceed loading the small square bale **pieces** or tub ground hay into the mixer. Do not exceed 15%-20% of hay by weight.

3. **Finish Loading Dry Commodities**
   - Finish loading any other ingredients to complete the ration in order of least binding ingredient to most binding. Example: dry commodities first, corn silage second, haylage last.

4. **Finish Loading Wet Commodities**
   - Any other wet feeds may be added at this time.

5. **Add Liquid Ingredients**
   - If ration includes water, add it last. Adding water at the beginning will cause the hay to bind.

**NOTE: DO NOT OVERLOAD MIXER!** Overloading causes excessive horsepower requirements, increased strain on driveline and poor mixer performance.

# MIXER OPERATION

## FILL LEVEL

- Do not overload mixer! Overloading causes excessive horsepower requirements, increased strain on mixer drive-line and poor mixer performance.
- The design of the Turbo-Max Mixer requires that there be adequate space to allow the feed to move in and around the reel chamber. If the reel is completely covered, it cannot efficiently mix the materials. The reel cross tubes should **always** be visible at the top of their rotation to allow this mixing space.

## UNLOADING

- After the ration has been thoroughly mixed, open the mixer door to begin unloading. If the mixer is equipped with a power chute, the chute must be running before the mixer door can be opened. The combination of the discharge door opening and the auger speed determines the flow of feed from the mixer. The auger speed is controled by adjusting the hydrostat. The door must be opened far enough to prevent separation of materials. Optional door flow control plates are available to help prevent separation. To stop the flow of feed, close the door, (turn off the power chute) then shut off the mixer.

- The Turbo-Max Mixer can be equipped with either a power chute, or a slide tray to assist in the delivery of feed. The chute and tray heights are adjusted with hydraulic cylinders, but the chain stops provided on power chutes should be adjusted so that the chute clears all bunks, obstacles, etc.

# INSPECTION AND ADJUSTMENTS

IMPORTANT! READ BEFORE OPERATING MIXER. IT IS THE RESPONSIBILITY OF THE OWNER TO MARE SURE THE MIXER IS SET UP PROPERLY. THE FOLLOWING RECOM-MENDATIONS SHOULD BE HELPFUL

## INSPECT AND ADJUST

- **Roller Chain Tighteners** so they apply sufficient spring tension to keep roller chains running smoothly (As a general rule the thickness of a nickel should fit between the spring coils). The chain will form grooves in the tightener blocks. These grooves help to keep the chains in proper alignment, and the blocks need not be turned unless the roller portion of the chain has worn into the block.

- **Roller Chains** for wear, proper alignment and tension. Adjust or replace if necessary. Roller chain connector links which pass over polyethylene tightener blocks must have the legs of the cotter pins trailing to the direction of rotation.

- **Safety Decals** for readability. If any safety decals are removed, obstructed, or otherwise not understandable, they should be replaced immediately. Keep all decals clean and visible.

- **Safety Shielding** to be sure all shielding is in place and functions properly. Replace all damaged or missing shielding immediately - see parts pages for more information.

- **Bolts and Set Screws** after a few hours of use and each month thereafter. Tighten if necessary.

- **Reel Wipers** plastic strips which help material clean out of the reel hopper. If the strips become bent back, they can be unbolted and turned around or replaced to improve clean out.

- **Upper Auger Knives** can be turned over for use on a new cutting edge and should be periodically sharpened, or replaced if they are no longer sufficiently breaking up material.

- **Lower Auger Round Knives** can be rotated several times before sharpening or replacement is required.

- **Discharge Chute Augers** (optional) to keep from rubbing on the chute body: There are shims behind each chute auger bearing for alignment. Periodically check chute liners for wear, replace as necessary.

- **Tire Wear and Pressure** must be checked to ensure that there is no excessive wear, and that tires are inflated to the recommended operating pressure for each given tire.

# INSPECTION AND ADJUSTMENTS

## INSPECT AND ADJUST

- **Rain can accumulate** in mixer if stored outside, always remove drain plugs on hopper ends to allow unit to drain completely and replace drain plugs before next use.

- **Freezing Weather:** Snow can accumulate in mixer if stored outside. Always remove drain plugs on hopper ends to allow unit to drain completely and check hopper for snow or ice buildup before operating unit. Thaw and remove any obstruction and replace drain plugs before next use.

**IMPORTANT: WHEN WELDING ON THIS UNIT:** Do NOT allow the current to flow through the bearings, roller chains, or scale weigh bars. Ground directly to the item being welded. **ALWAYS** disconnect weigh bar cords from scale indicator before welding.

## ELECTRONIC SCALES

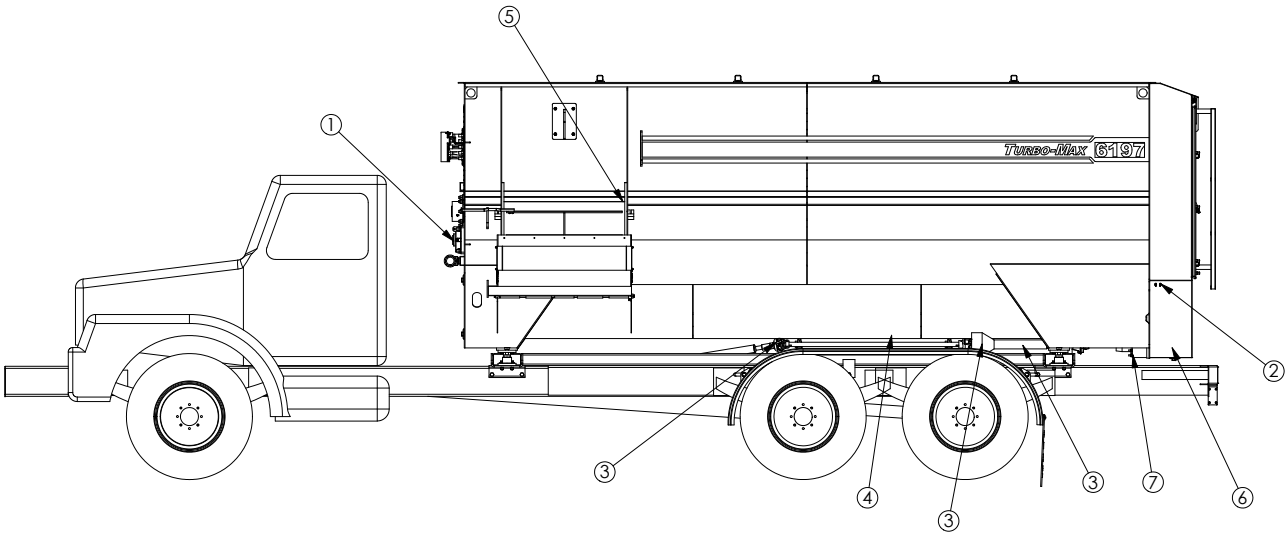
- **Scale Indicator:** Refer to the electronic scale operators manual for adjustment information. The operator's manual for the Electroic Scales should be kept with this manual. Additional scale manuals may be obtained through Sioux Automation Center, Inc.

- **Load Cells:** Should be kept clean, dry,and lubricated to insure dependabiltiy.

- **Normal Scale Activity:** Some warm up scale "drift" may occur after the scale is turned on but should zero balance within 10-15 minutes. Scale may zero shift over night due to temperature changes.

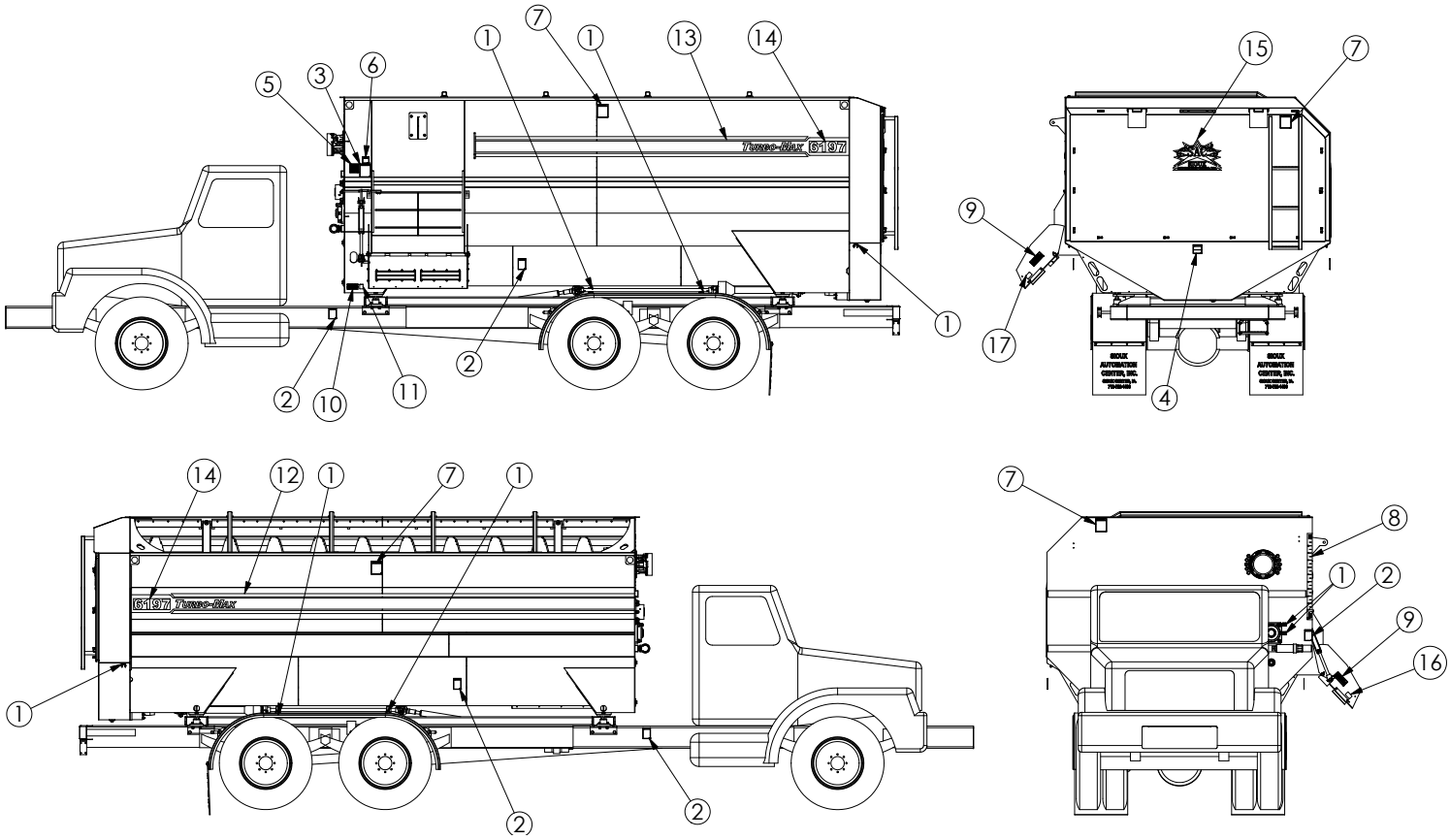
# LUBRICATION

- **The operator is responsible for routine maintenance and must carry out the following activities.**
- **It is extremely important that the following lubrication schedule be followed:** Bearings: use a good quality multipurpose grease. Replace all damaged or missing grease zerks immediately. Always clean zerks before using grease gun. Pump the grease in slowly until a slight bead forms around the bearing seals. Once a month check lines and connections on grease banks for leaks.
- **Oilbath Oil:** Use a good high quality universal oil. Use an oil that meets or exceeds hydraulic oil grade. Fill to the top lower oilbath roller chains. Change yearly or whenever contaminated.
- **Planetary Oil:** After a brief operating period of about 100 hours (breaking in), change the oil in the gear unit. Check that there are no metallic parts with unusual dimension in the magnetic plug of the gear unit. Change the oil in the gear unit while it is hot so that it is easier to drain. Subsequent oil changes will be made every 1000 hours of operation or, in any case, each year. Use synthetic ISO VG 220 gear oil. (SYNDRO SHB 220 Synthetic or equivalent) **DO NOT MIX OILS!** Periodically check the levels (about once a month) and top off if necessary. It is recommended to keep a chart that will be duly filled out and updated each time maintenance is performed. For long periods out of service, completely fill planetary with oil to prevent gears and bearings from corrosion.
- **Planetary Oil Change Instructions:** The planetary is equipped with oil level, breather, filler and drain plugs and their position changes according to the installation configuration. Unscrew the drain plug and the filler plug to help drain the oil from the gear unit. Once the oil has been emptied, replace the drain plug.
- **Filling instructions:** Unscrew the level and filler plugs and add gear oil until the oil flows out of the oil level hole. Replace the plugs. Turn the gear unit a few times to eliminate any air pockets and then check the level again.
- **Hydrostatic Oil:** Replace the hydrostatic oil every 1000 hours or annually.
- **Hydrostatic Oil Filter:** Replace the oil filter after the first 20 hours of operation. The filter should then be replaced whenever the filter indicator shows replacement is necessary or after every 1000 hours of operation or annually.
- **Before operating a new mixer,** the roller chains should be liberally lubricated and then the unit operated under a no-load condition. This break-in period will allow the roller chains to be thoroughly lubricated and thus minimize heat-up during operation.



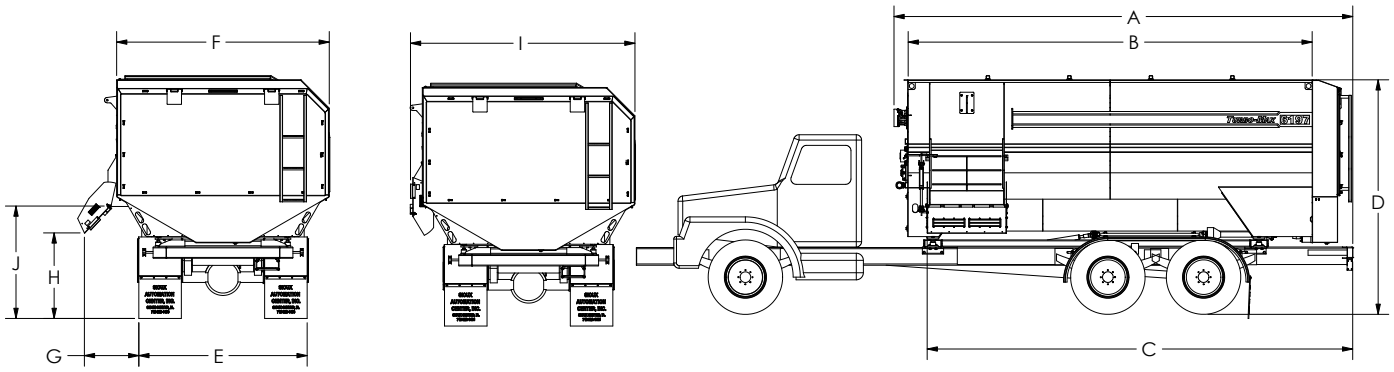

| LUBRICATION | | |
|---|---|---|
| ITEM | LUBRICATION INTERVAL | LOCATION |
| 1 | 8 HOURS | FRONT AUGER BEARINGS |
| 2 | 8 HOURS | REAR AUGER BEARINGS |
| 3 | 8 HOURS | DRIVELINE UNIVERSAL JOINTS |
| 4 | 8 HOURS | INPUT HANGER BEARINGS |
| 5 | 20 HOURS | DOOR GUIDES AND PIVOTS |
| 6 | 50 HOURS | OIL BATH OIL (CHECK LEVEL) REPLACE ANNUALLY |
| 7 | 1000 HOURS | PLANETARY OIL REPLACE ANNUALLY |

# DECAL LOCATION




| ITEM # | 6177 QTY. | 6197 QTY. | PART # | DESCRIPTION |
|---|---|---|---|---|
| 1 | 9 | 9 | DEC102 | GREASE GUN PICTURE |
| 2 | 5 | 5 | DEC105 | DANGER DRIVELINE ROTATION |
| 3 | 1 | 1 | DEC106 | CAUTION READ OWNERS MANUAL |
| 4 | 1 | 1 | DEC107 | WARNING EXPOSED CHAIN |
| 5 | 1 | 1 | DEC108 | WARNING MOVING PART |
| 6 | 1 | 1 | DEC109 | WELDING CAUTION |
| 7 | 4 | 4 | DEC111 | DANGER AUGER |
| 8 | 1 | 1 | DEC295 | DOOR GAGE |
| 9 | 2 | 2 | DEC322 | WARNING CHUTE AREA |
| 10 | 1 | 1 | DEC375 | SAC MODEL & SERIAL NUMBERS |
| 11 | 2 | 2 | DEC393 | FEMA DECAL |
| 12 | 1 | 1 | DEC442 | TURBO-MAX LOGO RH |
| 13 | 1 | 1 | DEC444 | TURBO-MAX LOGO LH |
| 14 | 2 | 0 | DEC456 | 6177 MODEL |
| | 0 | 2 | DEC457 | 6197 MODEL |
| 15 | 1 | 1 | DEC465 | SAC LOGO |
| 16 | 1 | 1 | STI702174 | REFLCTR,RECT,AMBER |
| 17 | 1 | 1 | STI702175 | REFLCTR,RECT,RED |

# TURBO-MAX TRUCK SPECIFICATIONS




| MODEL | 6177 | 6197 |
|---|---|---|
| DIMENSIONS (INCHES) | TRUCK | TRUCK |
| A - Overall Length | 211 | 259 |
| B - Mixing Chamber Length | 180 | 228 |
| C - Front Discharge to Bumper | 192 | 240 |
| D - Overall Height[2] | 135[2] | 135[2] |
| RH Drop Side Reduction | 16 | 16 |
| E - Tread Width | 94 | 94 |
| F - Overall Width (mixer only) | 120 | 120 |
| G - Slide Tray - max. reach | 31 | 31 |
| H - Slide Tray - max. height[2] | 43[2] | 43[2] |
| I - Slide Tray - transport width | 127 | 127 |
| J - Hinge height for discharge[2] | 61[2] | 61[2] |
| SPECIFICATIONS | | |
| Unit Weight - pounds[1] | 19000[1] | 21500[1] |
| Maximum Net Load - pounds | 23100 | 29400 |
| Mixing Capacity - cubic feet | 770 | 970 |
| Reel Diameter | 84 | 84 |
| Reel Arms | 6” | 6” |
| Reel Hopper Thickness | 3/8” | 3/8” |
| Reel Speed RPM | 5.2 | 5.2 |
| Lower Auger | | |
| Flighting Diameter | 28” | 28” |
| Flighting Thickness - Sectional[3] | 5/8”[3] | 5/8”[3] |
| Tube - Outside Diameter | 8 5/8” | 8 5/8” |
| Drive Shaft Diameter | 3 1/2” | 3 1/2” |
| Upper Auger | | |
| Flighting Diameter | 28” | 28” |
| Flighting Thickness - Sectional | 1/2” | 1/2” |
| Tube - Outside Diameter | 8 5/8” | 8 5/8” |
| Drive Shaft Diameter | 3 1/2” | 3 1/2” |
| Auger Hopper Thickness | 3/8” | 3/8” |
| Side Sheet Thickness | 1/4” | 1/4” |
| End Sheet Thickness | 1/4” | 1/4” |
| Door Opening Size | 40.75 x 21.50 | 40.75 x 21.50 |
| Roller Chain Drive | 140-180 | 140-180 |
| Minimum Engine Horsepower Requirement[4] | 300[4] | 300[4] |

1 Does not include chassis.
2 Heights are based on 38” frame rail height.
3 Lower auger flighting at convergence is 3/4” standard.
4 Horsepower requirements will vary by ration components and moisture.

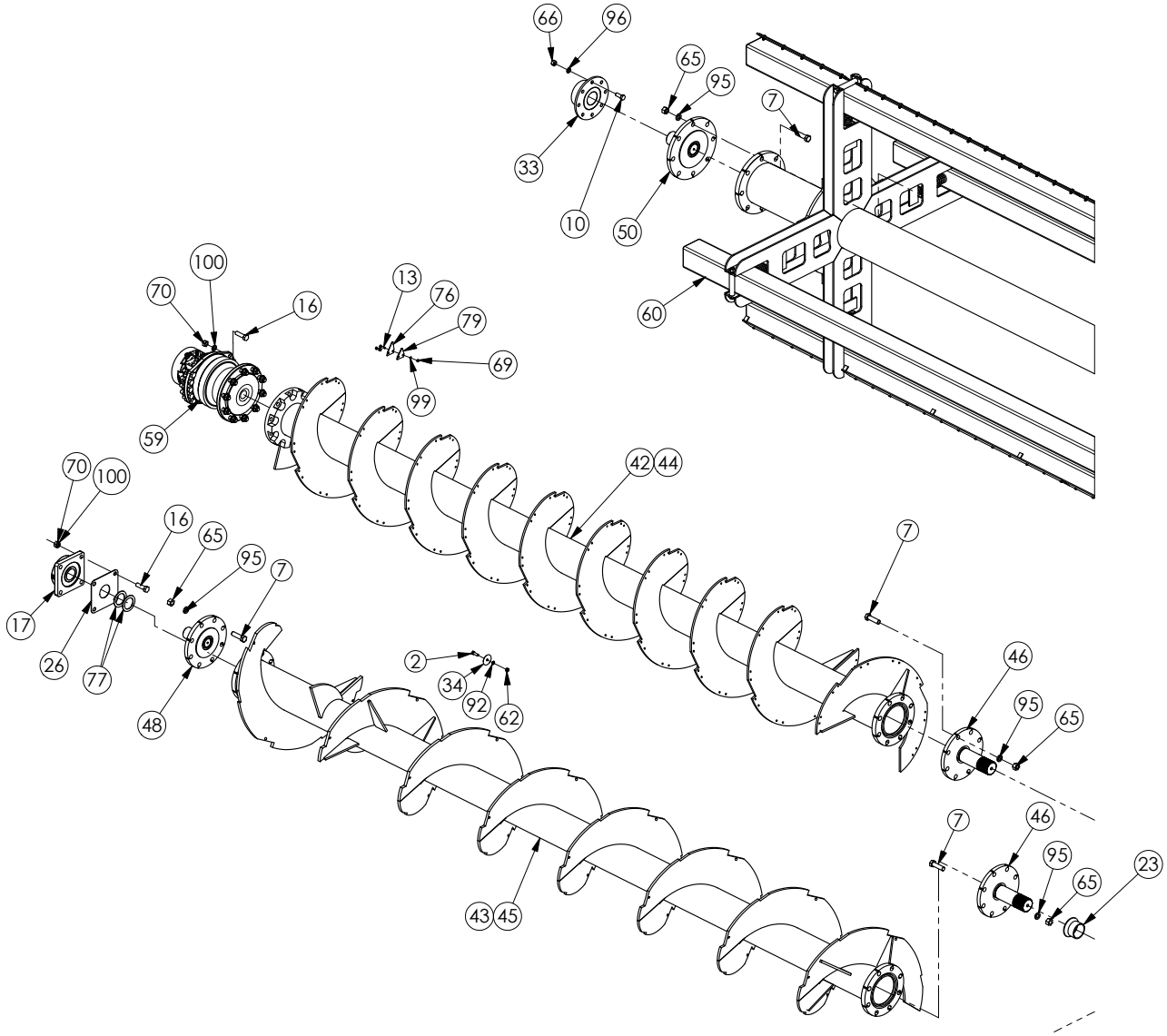
# NOTES

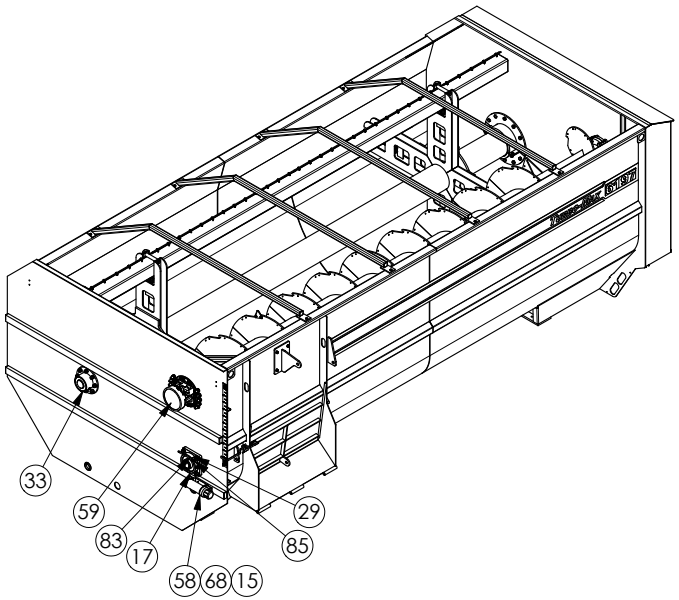
# BOX BASE ASSEMBLY

| ITEM # | 6177 QTY | 6197 QTY | 6177 SS | 6197 SS | PART # | DESCRIPTION |
|---|---|---|---|---|---|---|
| 1 | 3 | 3 | 3 | 3 | BLT10X30MM | 10MM X 30MM BOLT |
| 2 | 18 | 24 | 18 | 24 | BLT12X112NC | 1/2X1-1/2 BOLT |
| 3 | 4 | 4 | 4 | 4 | BLT12X114NC | 1/2X1-1/4 BOLT |
| 4 | 1 | 1 | 1 | 1 | BLT12X4NC | 1/2X4 BOLT |
| 5 | 12 | 12 | 12 | 12 | BLT12X7NF | 1/2X7 BOLT G8 FINE THD |
| 6 | 2 | 2 | 2 | 2 | BLT14X1NC | 1/4X1 BOLT |
| 7 | 32 | 32 | 32 | 32 | BLT1X312NC | 1X3-1/2 BOLT |
| 8 | 8 | 8 | 8 | 8 | BLT1X4NC | 1X4 BOLT |
| 9 | 12 | 12 | 12 | 12 | BLT34X212NC | 3/4X2-1/2 BOLT |
| 10 | 10 | 10 | 10 | 10 | BLT34X2NC | 3/4X2 BOLT |
| 11 | 8 | 8 | 8 | 8 | BLT34X3NC | 3/4X3 BOLT |
| 12 | 1 | 1 | 1 | 1 | BLT38X134NC | 3/8X1-3/4 BOLT |
| 13 | 153 | 192 | 153 | 192 | BLT516X114NC | 5/16X1-1/4 BOLT |
| 14 | 1 | 1 | 1 | 1 | BLT516X1NC | 5/16X1 BOLT |
| 15 | 2 | 2 | 2 | 2 | BLT516X34CNC | 5/16 X 3/4 CARRIAGE BOLT |
| 16 | 14 | 14 | 14 | 14 | BLT78X3NC | 7/8X3 BOLT |
| 17 | 1 | 1 | 1 | 1 | BRGRCJO21516 | 2.94 HVY FLANGE BEARING |
| 18 | 2 | 2 | 2 | 2 | BURN12000305 | 4.5 SPROCKET RETAINER DISK |
| 19 | 1 | 1 | 1 | 1 | DEC295 | DOOR GAGE DECAL |
| 20 | 2 | 2 | 2 | 2 | KN170445 | 3.5 FLANGE BEARIING |
| 21 | 2 | 2 | 2 | 2 | MON102032 | ROUND SPACER |
| 22 | 1 | 1 | 1 | 1 | MON102344 | PLASTIC CHAIN GUIDE |
| 23 | 1 | 1 | 1 | 1 | MON102652 | SPACER SLEAVE (2.88) |
| 24 | 1 | 1 | 1 | 1 | MON102684 | TIGHTENER ARM |
| 25 | 1 | 1 | 1 | 1 | MON102947 | 140-H ROLLER CHAIN |
| 26 | 1 | 1 | 1 | 1 | MON102952 | SEAL RETAINER |
| 27 | 1 | 1 | 1 | 1 | MON102999 | PLANETARY DRIVE |
| 28 | 1 | 1 | 1 | 1 | MON103041 | 180-H ROLLER CHAIN |
| 29 | 1 | 1 | 1 | 1 | MON103165 | GREASE LINE BRACKET |
| 30 | 1 | 1 | 1 | 1 | MON103168 | 12GA FLAT WASHER |
| 31 | 1 | 1 | 1 | 1 | MON103170 | SPRING TIGHTNER BRACKET |
| 32 | 2 | 2 | 2 | 2 | MON103176 | HINGE PIN |
| 33 | 1 | 1 | 1 | 1 | MON300014 | PLASTIC BEARING (3-7/16) |
| 34 | 18 | 24 | 18 | 24 | MON300018 | KNIFE BOTTOM AUGER (ROUND) |
| 35 | 1 | 1 | 1 | 1 | MON300026 | PLASTIC TIGHTENER |
| 36 | 1 | 1 | 1 | 1 | MON300029 | TIGHTENER SPRING |
| 37 | 4 | 4 | 4 | 4 | MON300080 | GAS SHOCK STUD |
| 38 | 1 | 1 | 1 | 1 | MON701078 | SPROCKET |
| 39 | 1 | 1 | 1 | 1 | MON701100 | DISCHARGE DOOR WELDMENT |
| 40 | 1 | 1 | 1 | 1 | MON701107 | DOOR INDICATOR BRACKET |
| 41 | 1 | 0 | 0 | 0 | MON701174-1 | 6177 BODY WELD |
| | 0 | 1 | 0 | 0 | MON701174-2 | 6197 BODY WELD |
| | 0 | 0 | 1 | 0 | MON701174-3 | 6177 SS BODY WELD |
| | 0 | 0 | 0 | 1 | MON701174-4 | 6197 SS BODY WELD |
| 42 | 1 | 0 | 1 | 0 | MON701181 | 6177 TOP AUGER |
| 43 | 1 | 0 | 1 | 0 | MON701182 | 6177 BOTTOM AUGER |
| 44 | 0 | 1 | 0 | 1 | MON701183 | 6197 TOP AUGER |
| 45 | 0 | 1 | 0 | 1 | MON701184 | 6197 BOTTOM AUGER |
| 46 | 2 | 2 | 2 | 2 | MON701188 | AUGER FLANGE SHAFT |
| 47 | 1 | 1 | 1 | 1 | MON701189 | SPROCKET |
| 48 | 1 | 1 | 1 | 1 | MON701191 | AUGER FLANGE SHAFT |
| 49 | 1 | 1 | 1 | 1 | MON701192 | SPROCKET |

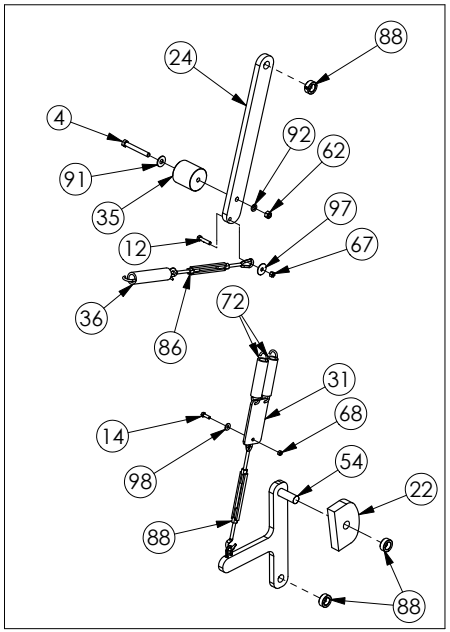
| ITEM # | 6177 QTY | 6197 QTY | 6177 SS | 6197 SS | PART # | DESCRIPTION |
|---|---|---|---|---|---|---|
| 50 | 1 | 1 | 1 | 1 | MON701198 | REEL FLANGE SHAFT |
| 51 | 1 | 1 | 1 | 1 | MON701199 | REAR DOOR |
| 52 | 1 | 1 | 1 | 1 | MON701209 | CYLINDER BRACKET |
| 53 | 3 | 4 | 3 | 4 | MON701210 | BUCKET GUARD |
| 54 | 1 | 1 | 1 | 1 | MON701241 | CHAIN IDLER ARM |
| 55 | 2 | 2 | 2 | 2 | MON800308 | PLANETARY END CAP |
| 56 | 1 | 1 | 1 | 1 | MON800521 | SPROCKET |
| 57 | 2 | 2 | 2 | 2 | MON800530 | DOOR SHOCK |
| 58 | 1 | 1 | 1 | 1 | MON800531 | MANUAL CANISTER |
| 59 | 1 | 1 | 1 | 1 | MON800539 | AUGER DRIVE MOTOR |
| 60 | 1 | 0 | 1 | 0 | MON900761-1 | 6177 REEL ASSEMBLY |
| | 0 | 1 | 0 | 1 | MON900761-2 | 6197 REEL ASSEMBLY |
| 61 | 1 | 1 | 1 | 1 | MON900770 | REEL BEARING ASSEMBLY |
| 62 | 23 | 29 | 23 | 29 | NUT12NC | 1/2" NUT |
| 63 | 12 | 12 | 12 | 12 | NUT12NF | 1/2" G8 FINE THD NUT |
| 64 | 2 | 2 | 2 | 2 | NUT14NC | 1/4" NUT |
| 65 | 40 | 40 | 40 | 40 | NUT1NC | 1" NUT |
| 66 | 28 | 28 | 28 | 28 | NUT34NC | 3/4" NUT |
| 67 | 1 | 1 | 1 | 1 | NUT38LOCKNC | 3/8" LOCK NUT |
| 68 | 3 | 3 | 3 | 3 | NUT516LOCKNC | 5/16" LOCK NUT |
| 69 | 157 | 196 | 157 | 196 | NUT516NC | 5/16" NUT |
| 70 | 14 | 14 | 14 | 14 | NUT78NC | 7/8" NUT |
| 71 | 10 | 10 | 10 | 10 | OSW830212 | DOOR LATCH |
| 72 | 2 | 2 | 2 | 2 | OSW840253 | SPRING EXTENSION |
| 73 | 1 | 1 | 1 | 1 | PFBL112PLUG | 1-1/2" BLACK PLUG |
| 74 | 1 | 1 | 1 | 1 | RC140HCON | 140-H CONNECTOR LINK |
| 75 | 1 | 1 | 1 | 1 | RC180HCON | 180-H CONNECTOR LINK |
| 76 | 72 | 90 | 72 | 90 | SAC73026 | KNIFE SICKLE SECTION |
| 77 | 2 | 2 | 2 | 2 | SAC73038 | .125 THRUST WASHER |
| 78 | 3 | 3 | 3 | 3 | SAC73052 | SEAL WASHER |
| 79 | 72 | 90 | 72 | 90 | SAC73207 | TOP AUGER KNIFE SUPPORTS |
| 80 | 4 | 4 | 4 | 4 | SPCP18X1 | COTTER PIN |
| 81 | 1 | 1 | 1 | 1 | SPGH24 | 24" GREASE HOSE |
| 82 | 1 | 1 | 1 | 1 | SPGH48 | 48" GREASE HOSE |
| 83 | 2 | 2 | 2 | 2 | SPGH60 | 60" GREASE HOSE |
| 84 | 1 | 1 | 1 | 1 | SPGH72 | 72" GREASE HOSE |
| 85 | 5 | 5 | 5 | 5 | SPGZRK618 | GREASE ZERK |
| 86 | 2 | 2 | 2 | 2 | SPHKE38 | TIGHTENER TURNBUCKLE |
| 87 | 1 | 1 | 1 | 1 | SPM1693R | LIGHT BAR |
| 88 | 3 | 3 | 3 | 3 | SPSCL1 | SHAFT LOCK COLLAR |
| 89 | 2 | 2 | 2 | 2 | STI701748 | CLEARANCE LIGHTS |
| 90 | 3 | 3 | 3 | 3 | WSH10LOCKMM | 10MM LOCK WASHER |
| 91 | 5 | 5 | 5 | 5 | WSH12FLAT | 1/2" FLAT WASHER |
| 92 | 23 | 29 | 23 | 29 | WSH12LOCK | 1/2" LOCK WASHER |
| 93 | 12 | 12 | 12 | 12 | WSH12LOCKG8 | 1/2" GR 8 LOCK WASHER |
| 94 | 2 | 2 | 2 | 2 | WSH14LOCK | 1/4" LOCK WASHER |
| 95 | 40 | 40 | 40 | 40 | WSH1LOCK | 1" LOCK WASHER |
| 96 | 30 | 30 | 30 | 30 | WSH34LOCK | 3/4" LOCK WASHER |
| 97 | 1 | 1 | 1 | 1 | WSH38FENSS | 3/8" FENDER WASHER |
| 98 | 10 | 13 | 10 | 13 | WSH516FLAT | 5/16" FLAT WASHER |
| 99 | 157 | 196 | 157 | 196 | WSH516LOCK | 5/16" LOCK WASHER |
| 100 | 14 | 14 | 14 | 14 | WSH78LOCK | 7/8" LOCK WASHER |

# BOX BASE ASSEMBLY

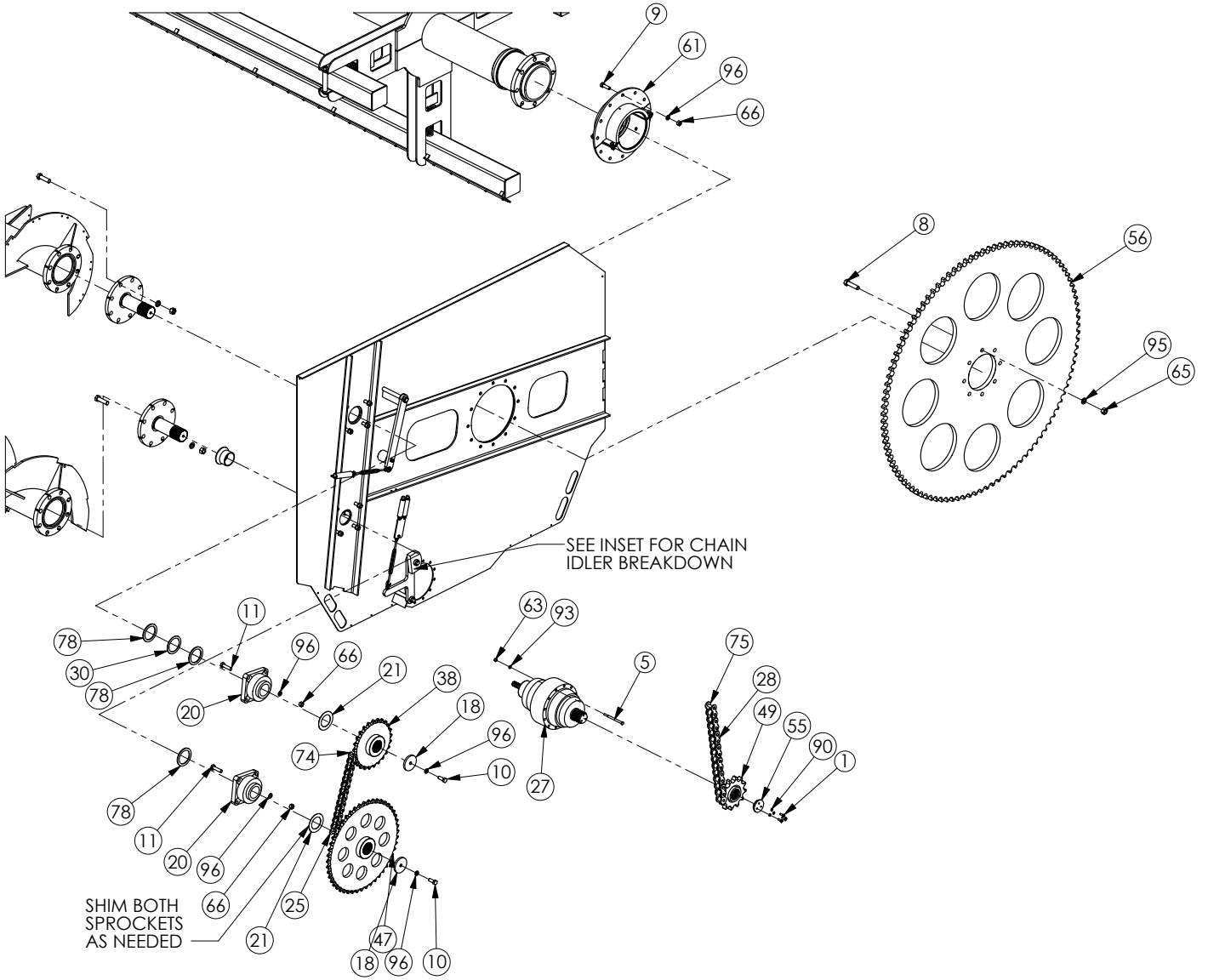


# BOX BASE ASSEMBLY




CHAIN IDLER
BREAKDOWN



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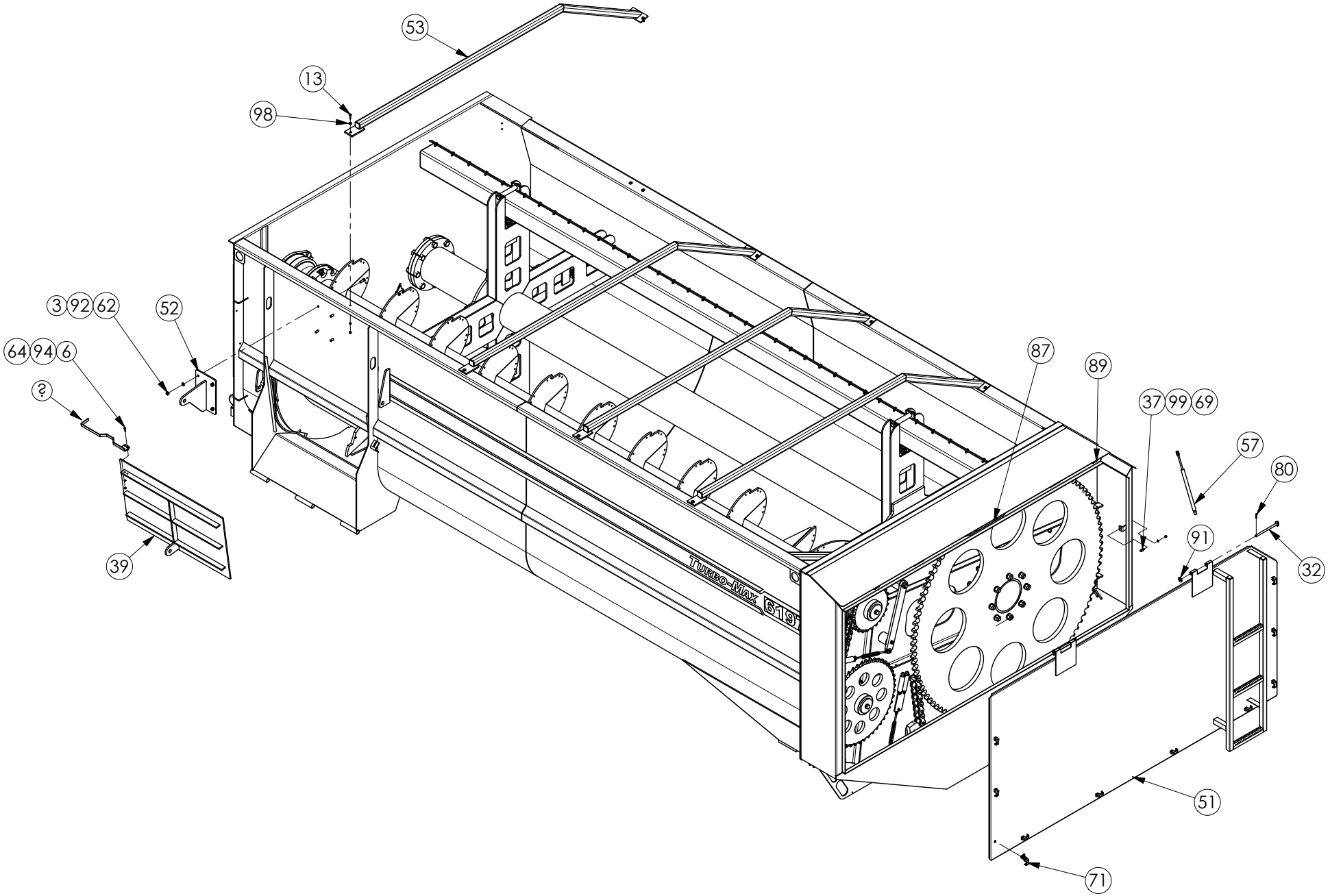
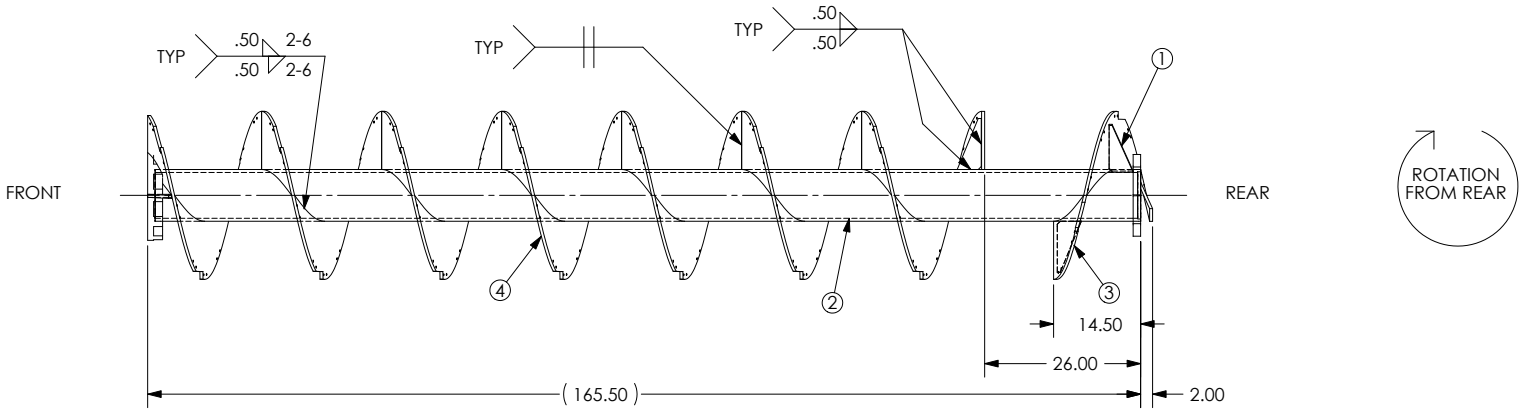


# TURBO-MAX 6177 AUGERS

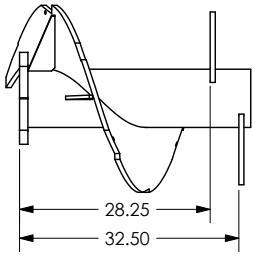
## 6177 TOP AUGER (MON701181)



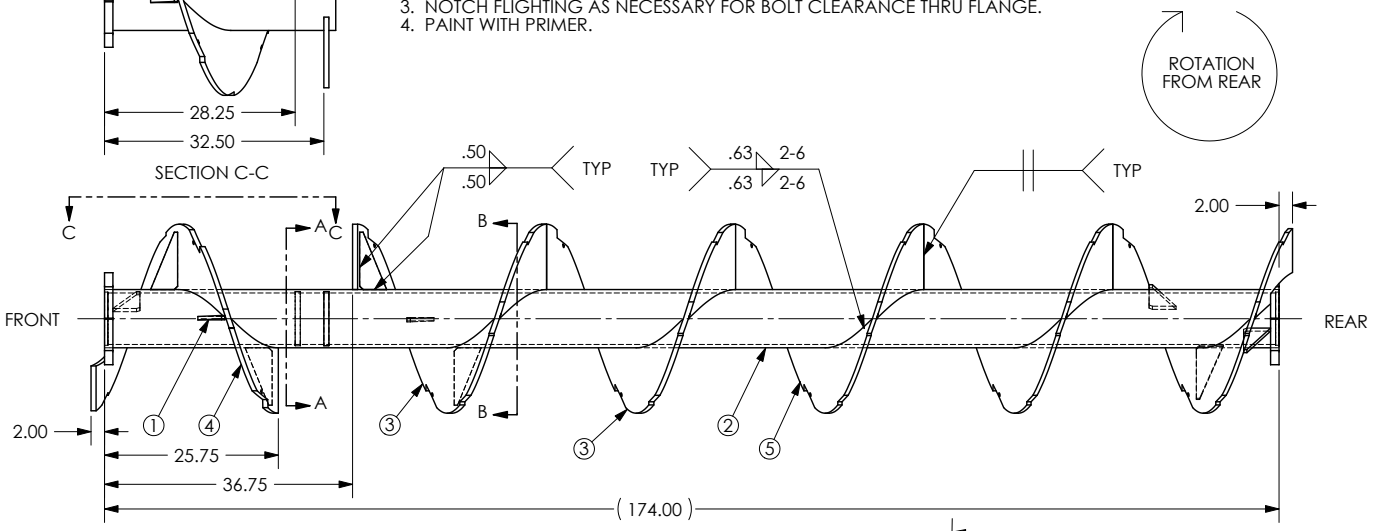

| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 4 | BURN13000167 | 4X8.5 GUSSET |
| 2 | 1 | MON701208 | 6177 TOP AUGER TUBE WELDMENT |
| 3 | 1 | SAC14550 | LEFT HAND FLIGHT |
| 4 | 7 | SAC14551 | RIGHT HAND FLIGHT |

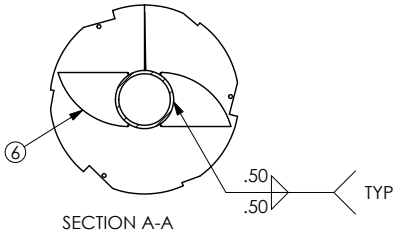
## 6177 BOTTOM AUGER (MON701182)

NOTES:
1. GUSSETS ARE ON SIDE OPP. PRODUCT FLOW AT CONVERGENCE POINT.
2. FLIGHTING ENDS AT CONVERGENCE POINT ARE 180° TO EACH OTHER.
3. NOTCH FLIGHTING AS NECESSARY FOR BOLT CLEARANCE THRU FLANGE.
4. PAINT WITH PRIMER.

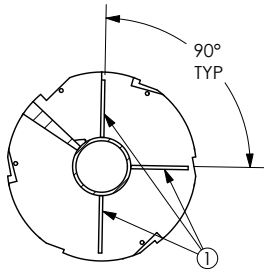



SECTION C-C



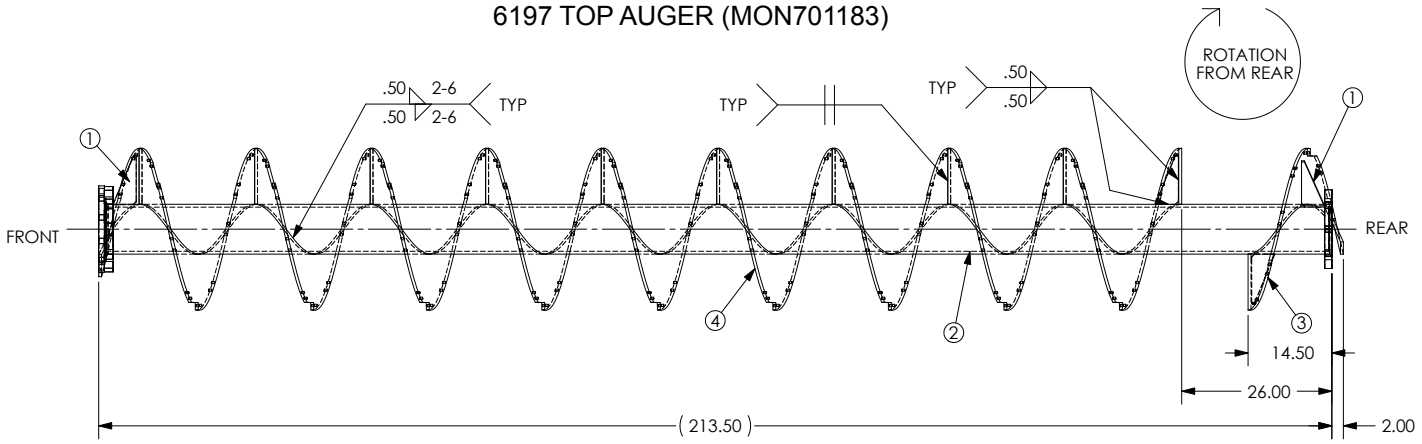

SECTION A-A




SECTION B-B

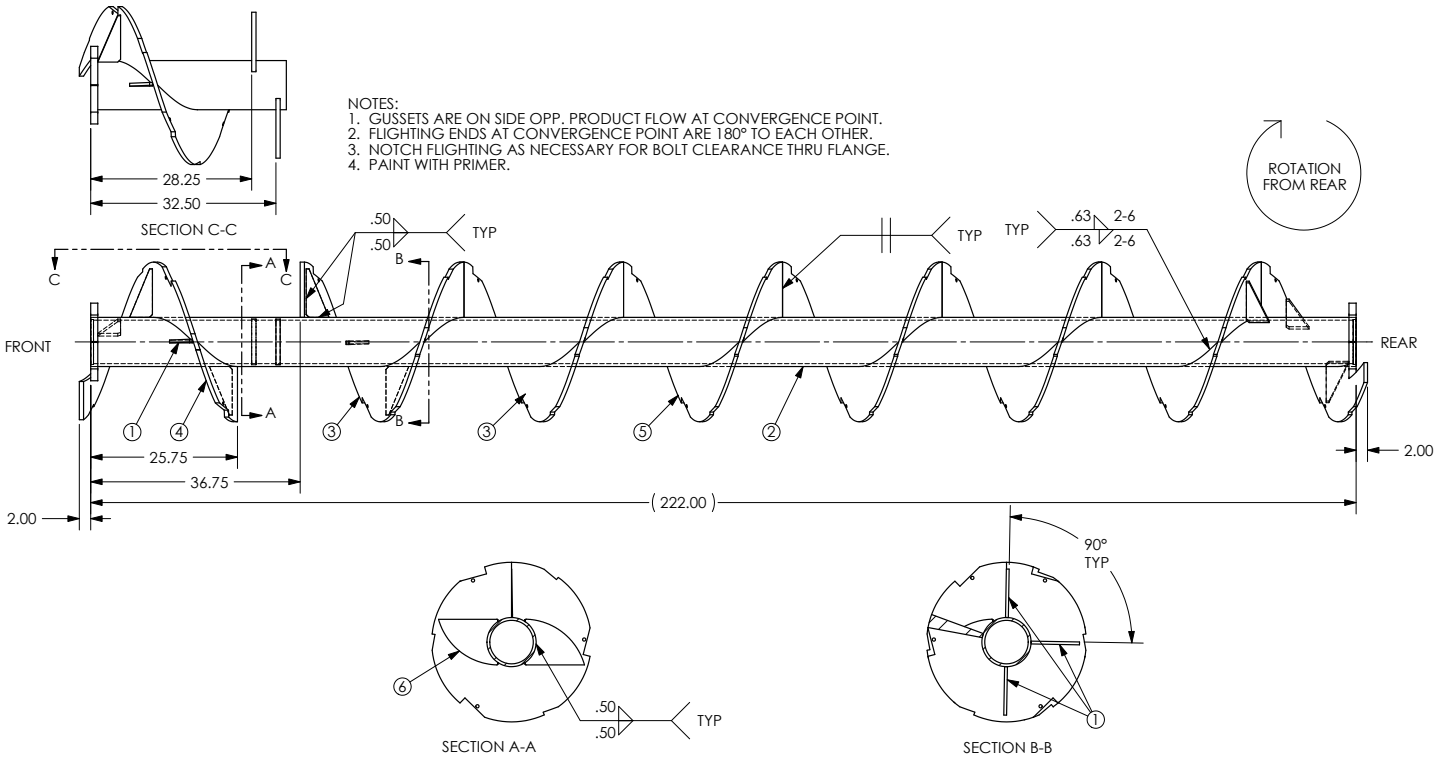
| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 10 | BURN13000167 | 4X8.5 GUSSET |
| 2 | 1 | MON701187 | 6177 BOTTOM AUGER TUBE WELDMENT |
| 3 | 2 | SAC14546 | LEFT HAND FLIGHT |
| 4 | 1 | SAC14547 | RIGHT HAND FLIGHT |
| 5 | 3 | SAC14548 | LEFT HAND FLIGHT |
| 6 | 2 | SAC73525 | PADDLE |

## 6197 TOP AUGER (MON701183)



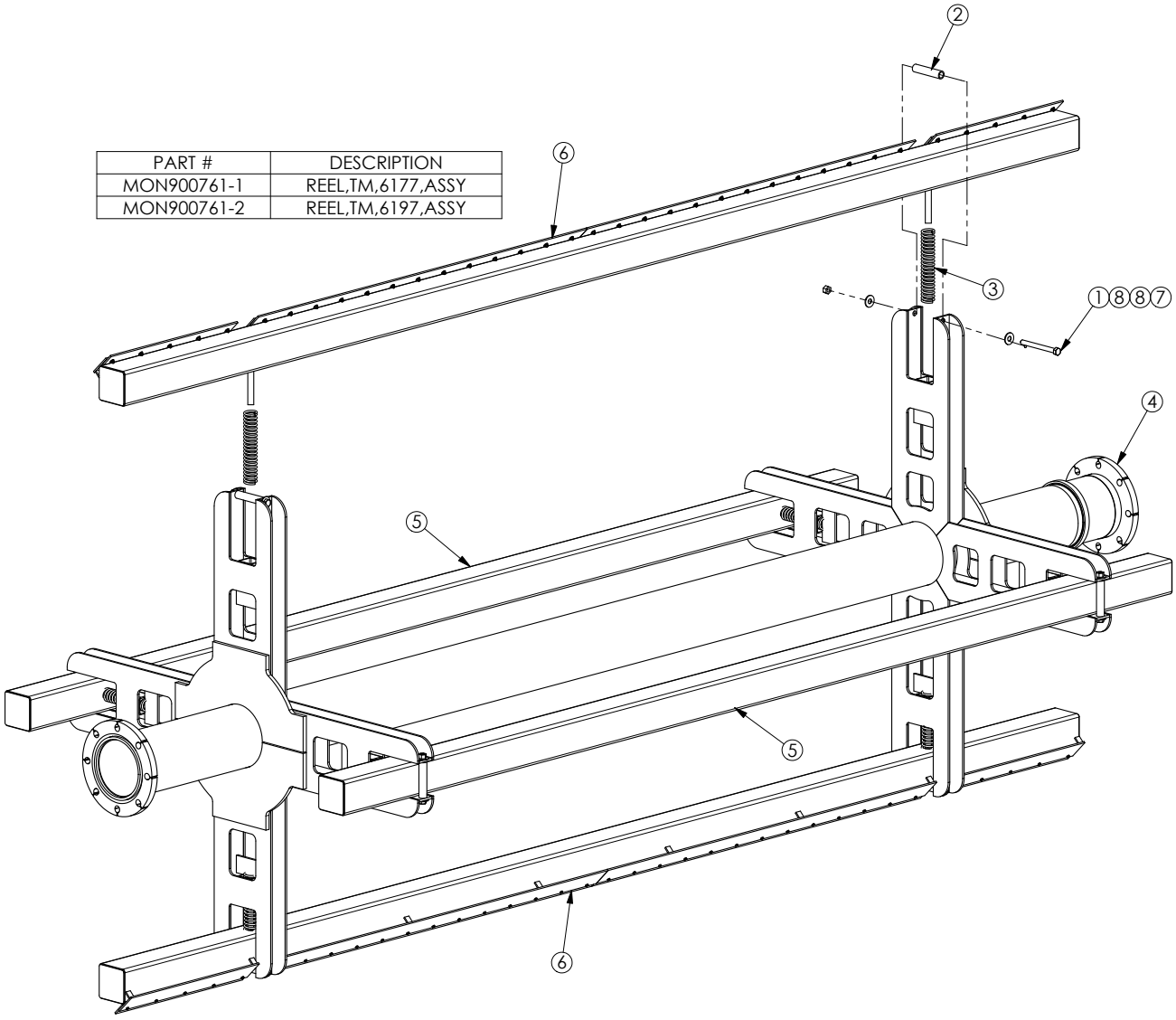

| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 4 | BURN13000167 | 4X8.5 GUSSET |
| 2 | 1 | MON701186 | 6197 TOP AUGER TUBE WELDMENT |
| 3 | 1 | SAC14550 | LEFT HAND FLIGHT |
| 4 | 10 | SAC14551 | RIGHT HAND FLIGHT |

## 6197 BOTTOM AUGER (MON701184)



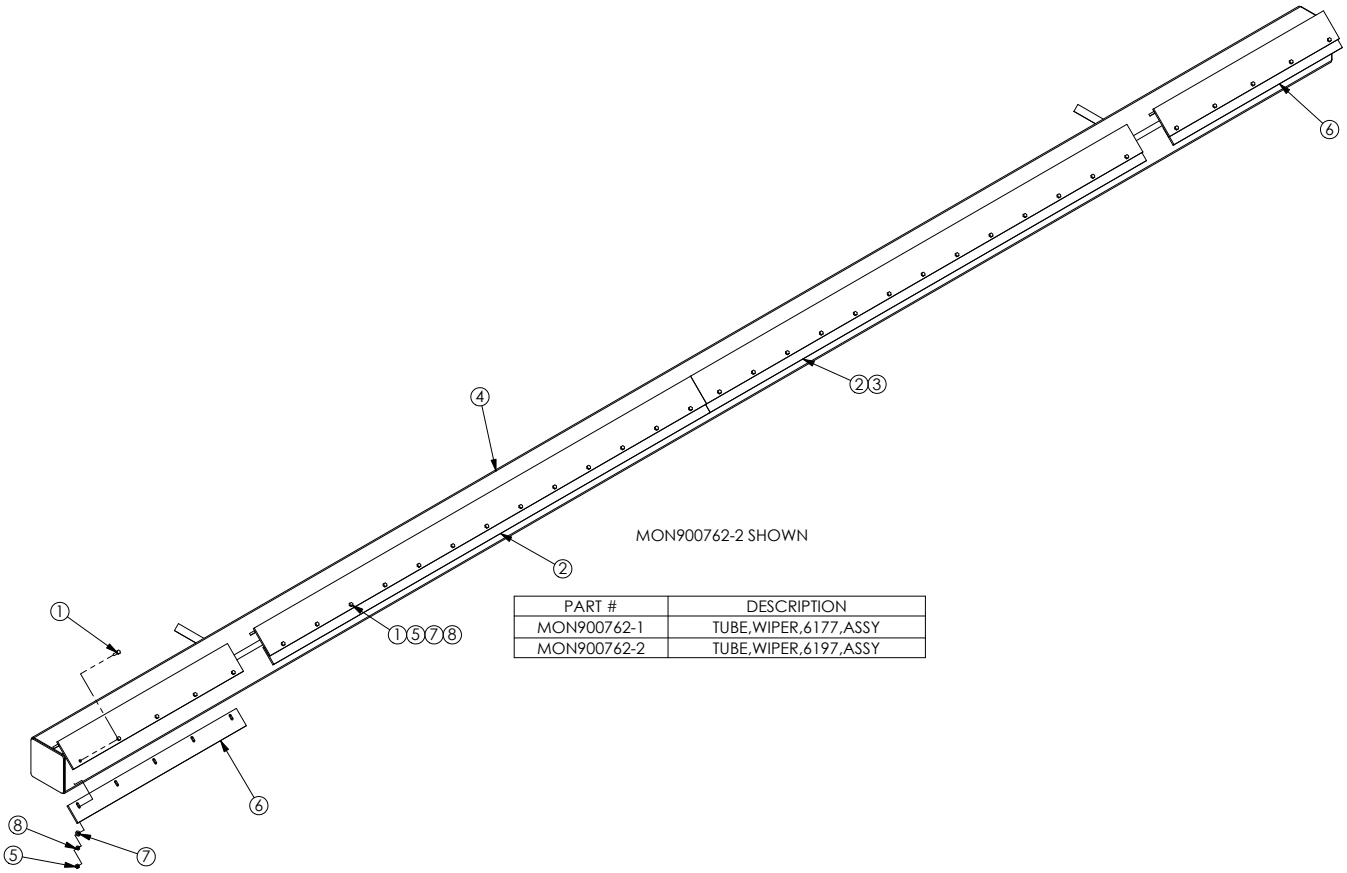

| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 10 | BURN13000167 | 4X8.5 GUSSET |
| 2 | 1 | MON701185 | 6197 BOTTOM AUGER TUBE WELDMENT |
| 3 | 2 | SAC14546 | LEFT HAND FLIGHT |
| 4 | 1 | SAC14547 | RIGHT HAND FLIGHT |
| 5 | 5 | SAC14548 | LEFT HAND FLIGHT |
| 6 | 2 | SAC73525 | PADDLE |

| PART # | DESCRIPTION |
|---|---|
| MON900761-1 | REEL,TM,6177,ASSY |
| MON900761-2 | REEL,TM,6197,ASSY |



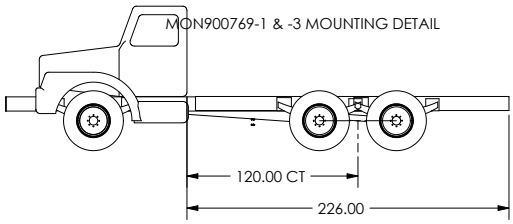

| ITEM # | MON900761-1 | MON900761-2 | PART # | DESCRIPTION |
|---|---|---|---|---|
| 1 | 8 | 8 | BLT34X8NC | 3/4X8 BOLT |
| 2 | 8 | 8 | MON102991 | 1/2” X 6.13 PIPE |
| 3 | 8 | 8 | MON300011 | SPRING |
| 4 | 1 | 0 | MON701194-1 | 6177 REEL WELDMENT |
| | 0 | 1 | MON701194-2 | 6197 REEL WELDMENT |
| 5 | 2 | 0 | MON701196-1 | 146.50” CROSS TUBE |
| | 0 | 2 | MON701196-2 | 194.50” CROSS TUBE |
| 6 | 2 | 0 | MON900762-1 | 6177 WIPER TUBE |
| | 0 | 2 | MON900762-2 | 6197 WIPER TUBE |
| 7 | 8 | 8 | NUT34LOCKNC | 3/4” LOCK NUT |
| 8 | 16 | 16 | WSH34FLAT | 3/4” FLAT WASHER |

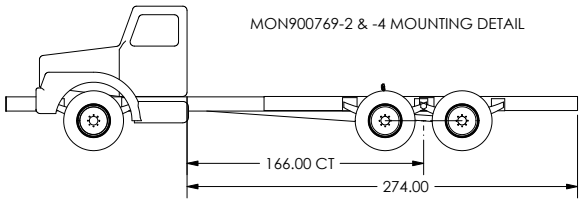
# TURBO-MAX 6177 & 6197 WIPER TUBES



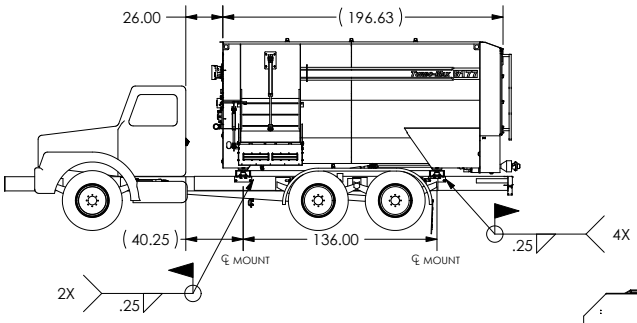

| PART # | MON900762-1 | MON900762-2 | PART # | DESCRIPTION |
|---|---|---|---|---|
| 1 | 27 | 36 | BLT14X1NC | 1/4X1 BOLT |
| 2 | 0 | 2 | MON102731 | PLASTIC WIPER |
| 3 | 1 | 0 | MON102990 | PLASTIC WIPER |
| 4 | 1 | 0 | MON701195-1 | WIPER TUBE |
| | 0 | 1 | MON701195-2 | WIPER TUBE |
| 5 | 27 | 36 | NUT14NC | 1/4” NUT |
| 6 | 2 | 2 | SAC73336 | PLASTIC WIPER |
| 7 | 27 | 36 | WSH14FLAT | 1/4” FLAT WASHER |
| 8 | 27 | 36 | WSH14LOCK | 1/4” LOCK WASHER |

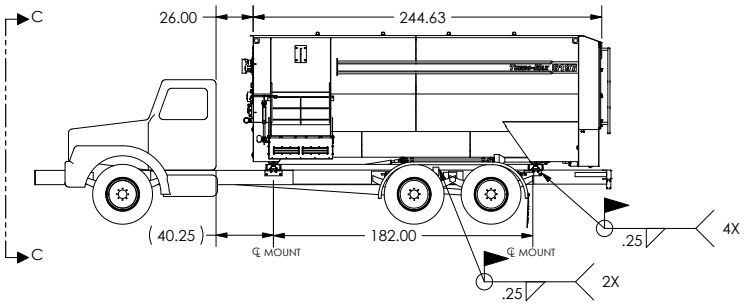
# FINAL ASSEMBLY

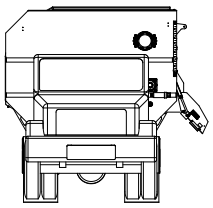



NOTE:
DRILL HOLES IN TRUCK FRAME TO SUIT
FOR MOUNTING MIXER MOUNTS.



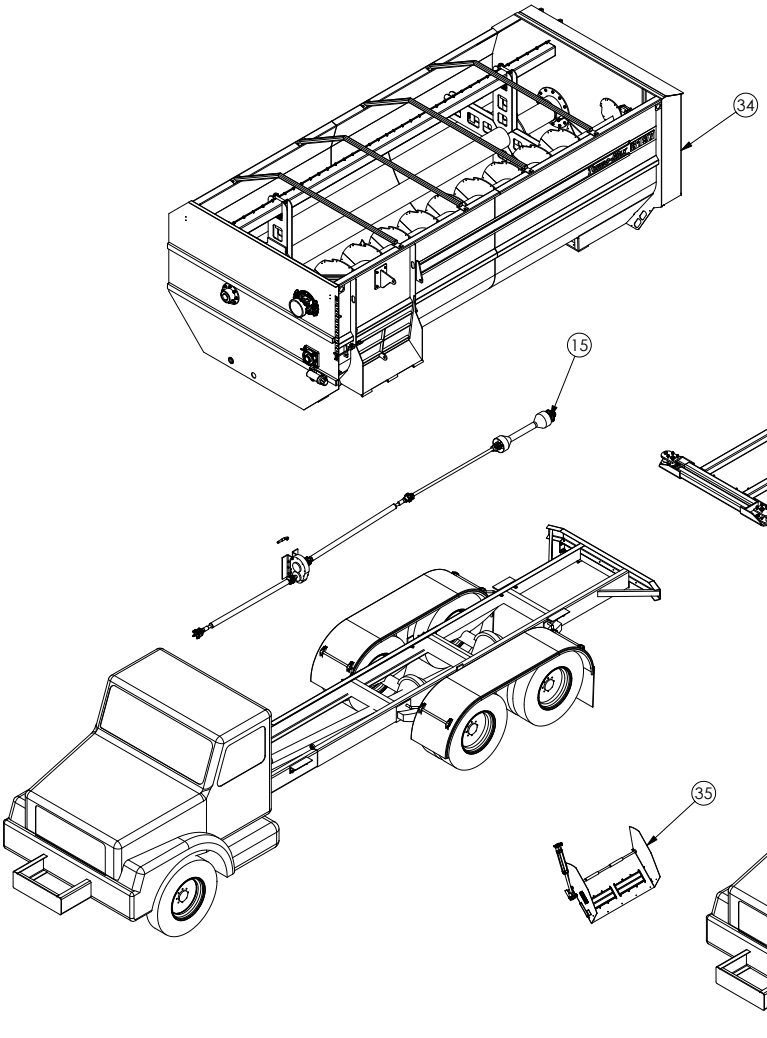



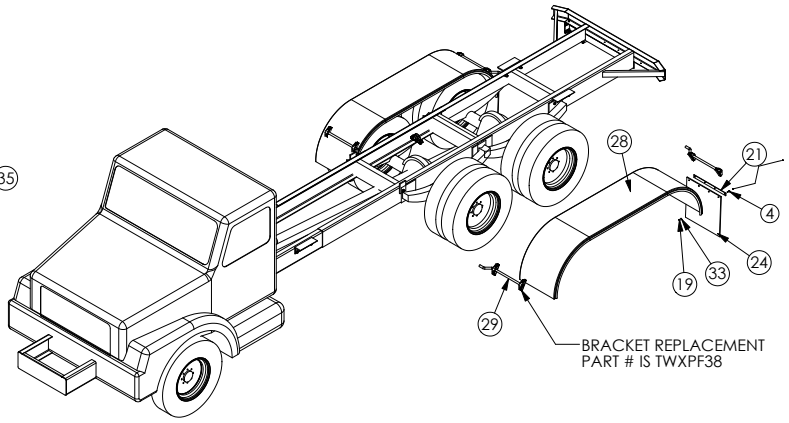
VIEW C-C

| BODY MOUNT COMPONENTS (REQUIRED) | | | | | | |
|---|---|---|---|---|---|---|
| ITEM # | 6177 QTY. | 6197 QTY. | 6177 SS QTY. | 6197 SS QTY. | PART # | DESCRIPTION |
| 1 | 4 | 4 | 4 | 4 | BLT12X214NC | 1/2X2-1/4 BOLT |
| 2 | 3 | 3 | 3 | 3 | BLT12X2NC | 1/2X2 BOLT |
| 3 | 10 | 10 | 10 | 10 | BLT34X212NC | 3/4X2-1/2 BOLT |
| 4 | 8 | 8 | 8 | 8 | BLT5/16X114NC | 5/16X1-1/4 BOLT |
| 5 | 1 | 1 | 1 | 1 | BRGRCJ1716 | 4 BOLT FLANGE BEARING |
| 6 | 4 | 4 | 4 | 4 | MON101899 | TRUCK FRAME ANGLE MOUNT |
| 7 | 2 | 2 | 2 | 2 | MON101900 | TRUCK FRAME PLATE MOUNT |
| 8 | 1 | 1 | 1 | 1 | MON102715 | GUSSET |
| 9 | 2 | 2 | 2 | 2 | MON103155 | 10GA BEARING SHIM |
| 10 | 2 | 2 | 2 | 2 | MON103156 | 20GA BEARING SHIM |
| 11 | 1 | 1 | 1 | 1 | MON103189 | BEARING HANGER |
| 12 | 1 | 1 | 1 | 1 | MON600198 | OWNERS MANUAL |
| 13 | 1 | 1 | 1 | 1 | MON900561 | TRUCK DECAL KIT |
| 14 | 1 | 1 | 1 | 1 | MON900737 | TRUCK LIGHT ASSEMBLY |
| 15 | 1 | 1 | 1 | 1 | MON900784 | DRIVE KIT |
| 16 | 1 | 1 | 1 | 1 | MON900788 | 61X7 HYDRO KIT |
| 17 | 7 | 7 | 7 | 7 | NUT12NC | 1/2" NUT |
| 18 | 10 | 10 | 10 | 10 | NUT34NC | 3/4" NUT |
| 19 | 8 | 8 | 8 | 8 | NUT516NC | 5/16" NUT |
| 20 | 2 | 2 | 2 | 2 | OSW820312 | 2.19 PILLOW BEARING |
| 21 | 2 | 2 | 2 | 2 | SAC56009 | MUD FLAP STRAP |
| 22 | 1 | 1 | 1 | 1 | SAC56032 | REAK BUMPER KIT |
| 23 | 1 | 1 | 1 | 1 | SAC73619 | GREASE LINE BRACKET |
| 24 | 1 | 1 | 1 | 1 | SACFLAP24X36 | MUD FLAP |
| 25 | 1 | 1 | 1 | 1 | SPGH48 | GREASE HOSE |
| 26 | 1 | 1 | 1 | 1 | SPGZRK618 | GREASE ZERK |
| 27 | 1 | 1 | 1 | 1 | STI590783 | BOLT ON STEP |
| 28 | 0 | 0 | 2 | 2 | TWJHT650 | TANDEM AXLE TRUCK FENDER |
| 29 | 2 | 2 | 2 | 2 | TWKIT1 | TANDEM FENDER HARDWARE |
| 30 | 6 | 6 | 6 | 6 | WSH12FLAT | 1/2" FLAT WASHER |
| 31 | 7 | 7 | 7 | 7 | WSH12LOCK | 1/2" LOCK WASHER |
| 32 | 10 | 10 | 10 | 10 | WSH34LOCK | 3/4" LOCK WASHER |
| 33 | 8 | 8 | 8 | 8 | WSH516LOCK | 5/16" LOCK WASHER |

# FINAL ASSEMBLY

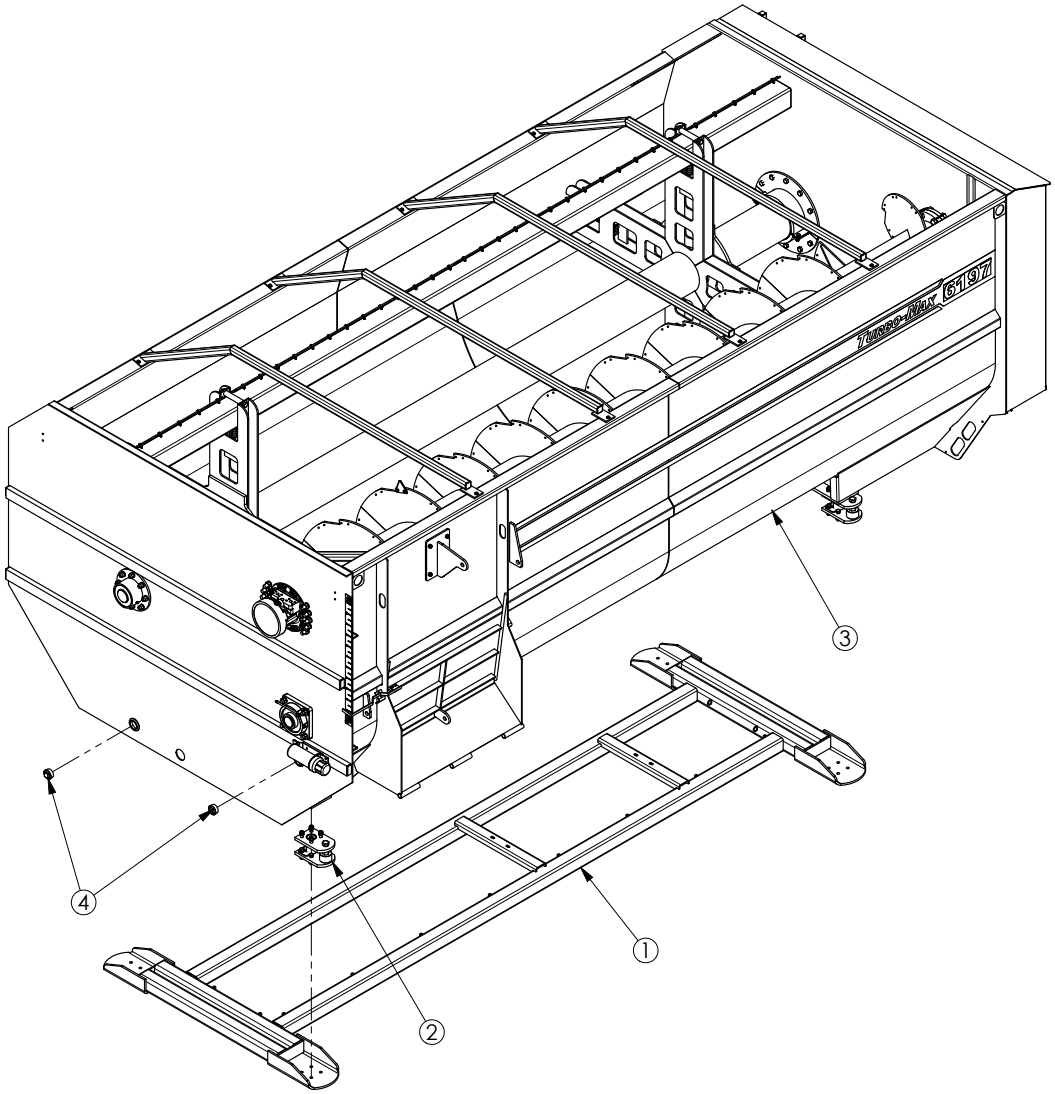



FENDER/BUMPER DETAILS




| SALES DRIVEN PACKAGES | | | | | | |
|---|---|---|---|---|---|---|
| | 6177 QTY. | 6197 QTY. | 6177 SS QTY. | 6197 SS QTY | PART # | DESCRIPTION |
| BASE ASSEMBLY | 1 | 0 | 0 | 0 | MON800514 | 6177 TRUCK ASSEMBLY |
| | 0 | 0 | 1 | 0 | MON800515 | 6177 TRUCK ASSEMBLY SS |
| | 0 | 1 | 0 | 0 | MON800516 | 6197 TRUCK ASSEMBLY |
| | 0 | 0 | 0 | 1 | MON800517 | 6197 TRUCK ASSEMBLY SS |
| DISCHARGE PACKAGE | 1 | 1 | 1 | 1 | SAC75010 | SLIDE TRAY |
| | 1 | 1 | 1 | 1 | SAC75098 | SLIDE TRAY WITH EXTENSION |
| SLIDE TRAY HYD PACKAGE | 1 | 1 | 1 | 1 | SAC75095 | TRUCK SLIDE TRAY HYD ASSEMBLY |
| SCALE PACKAGE | 1 | 1 | 1 | 1 | SAC75836 | TRUCK SCALE KIT |
| SWITCHBOX PACKAGE | 1 | 1 | 1 | 1 | SCA170075 | DOOR SWITCHBOX |
| | 1 | 1 | 1 | 1 | SCA170081 | JOYSTICK SWITCHBOX |
| OPTIONAL ITEMS | | | | | | |
| FRONT BUMPER | 1 | 1 | 1 | 1 | SAC56058 | UNIVERSAL BUMPER W/ ROLLER |
| | 1 | 1 | 1 | 1 | SAC56078 | UNIVERSAL BUMPER |
| TURBO PRECLEANER | 1 | 1 | 1 | 1 | SAC56084 | TURBO PRECLEANER KIT |
| HEAVY DUTY REAR BUMPER | 1 | 1 | 1 | 1 | MON900725 | HD REAR BUMPER KIT |
| FILLER PANEL | 0 | 1 | 0 | 1 | MON900802 | 6197 FILLER PANEL |
| | 1 | 0 | 1 | 0 | MON900803 | 6177 FILLER PANEL |

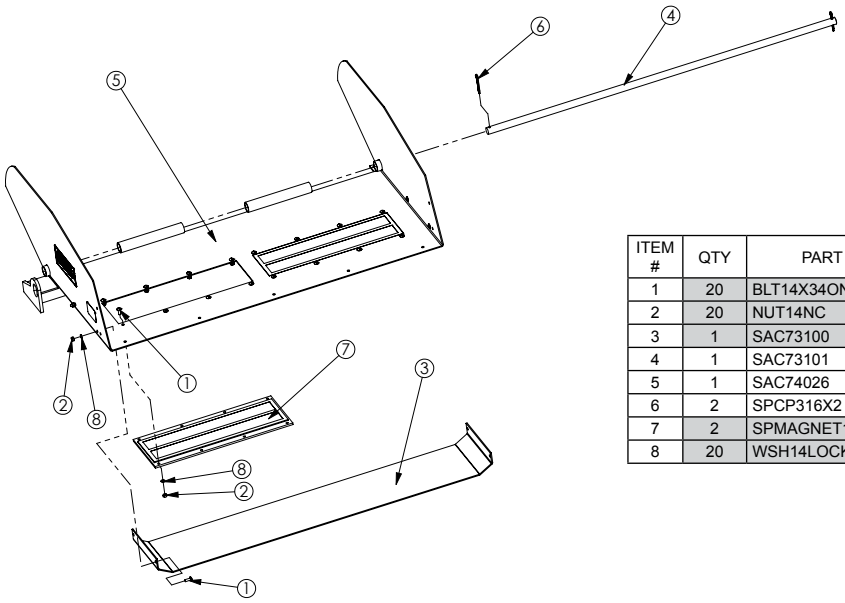
# TRUCK BASE ASSEMBLY




| ITEM # | 6177 QTY | 6197 QTY | 6177 SS QTY | 6197 SS QTY | PART # | DESCRIPTION |
|---|---|---|---|---|---|---|
| 1 | 1 | 0 | 1 | 0 | MON701245-1 | 6177 TRUCK FRAME |
| | 0 | 1 | 0 | 1 | MON701245-2 | 6197 TRUCK FRAME |
| 2 | 4 | 4 | 4 | 4 | MON900711 | DUMMY SCALE KIT |
| 3 | 1 | 0 | 0 | 0 | MON900767-1 | 6177 BASE ASSEMBLY |
| | 0 | 1 | 0 | 0 | MON900767-2 | 6197 BASE ASSEMBLY |
| | 0 | 0 | 1 | 0 | MON900767-3 | 6177 SS BASE ASSEMBLY |
| | 0 | 0 | 0 | 1 | MON900767-4 | 6197 SS BASE ASSEMBLY |
| 4 | 2 | 2 | 2 | 2 | PFBL2PLUG | 2" PLUG |

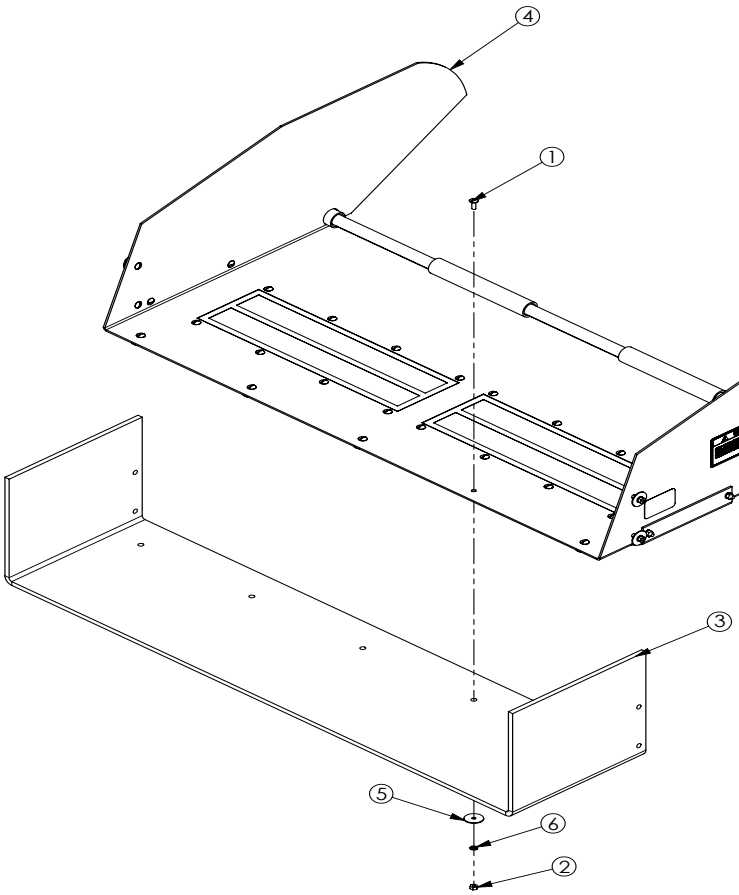
# DISCHARGE BREAKDOWN

21” SLIDE TRAY (SAC75010)




| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 20 | BLT14X34ONC | 1/4X3/4 BOLT (TRUSS) |
| 2 | 20 | NUT14NC | 1/4” NUT |
| 3 | 1 | SAC73100 | MAGNET GUARD |
| 4 | 1 | SAC73101 | HINGE ROD |
| 5 | 1 | SAC74026 | SLIDE TRAY |
| 6 | 2 | SPCP316X2 | 3/16X2 COTTER PIN |
| 7 | 2 | SPMAGNET1850 | MAGNET |
| 8 | 20 | WSH14LOCK | 1/4” LOCK WASHER |

21” SLIDE TRAY WITH 8” EXTENSION (SAC75098)



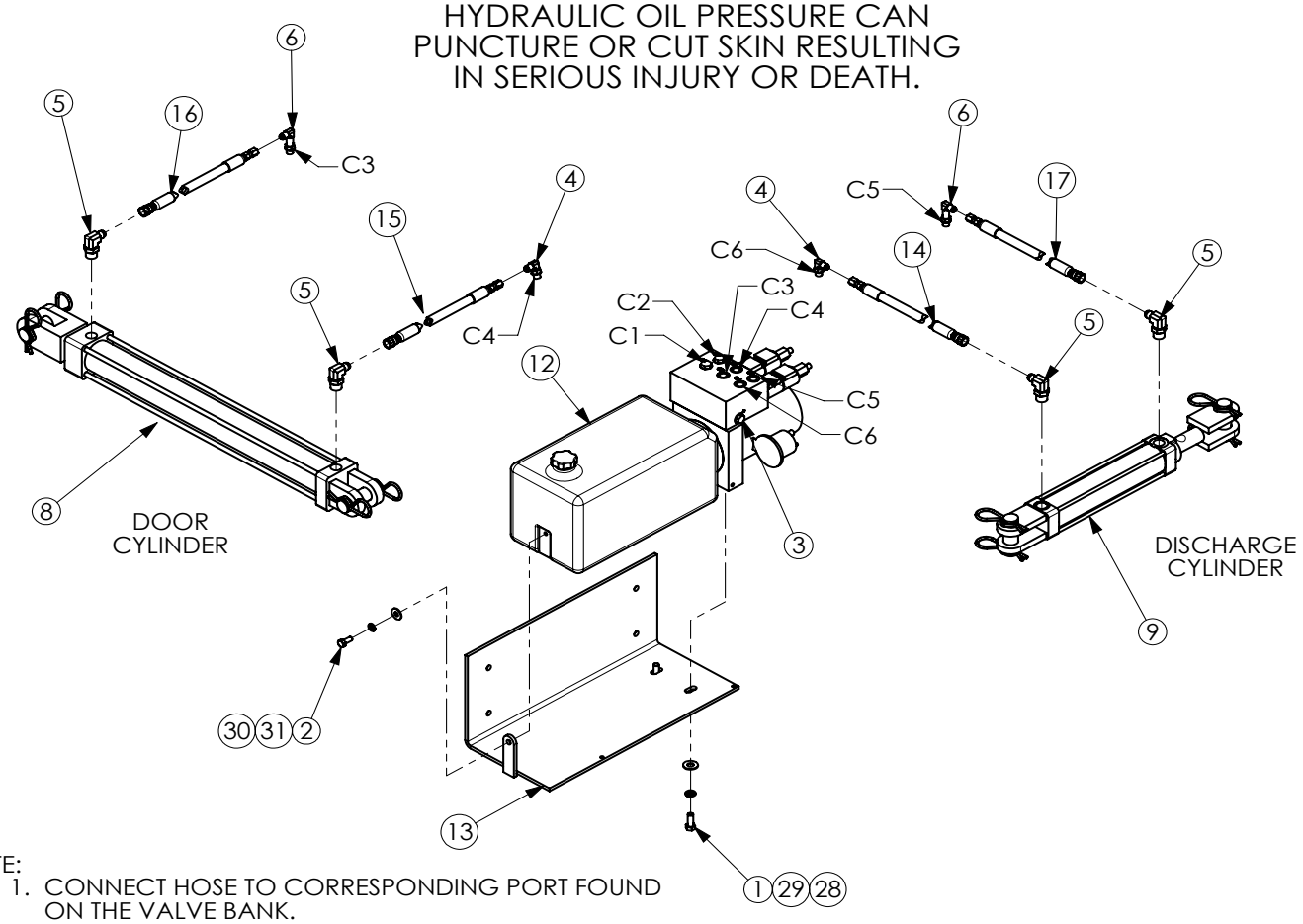

| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 9 | BLT14X34ONC | 1/4X3/4 BOLT (TRUSS) |
| 2 | 9 | NUT14NC | 1/4” NUT |
| 3 | 1 | SAC73122 | EXTENSION BELT |
| 4 | 1 | SAC75010 | 21” SLIDE TRAY |
| 5 | 9 | WSH14FENSS | 1/4X1-1/4 FENDER WASHER |
| 6 | 9 | WSH14LOCK | 1/4” LOCK WASHER |

# HYDRAULICS BREAKDOWN

ELECTRIC SELECTOR ASSEMBLY FOR SLIDE TRAY (SAC75095)

## WARNING!

HYDRAULIC OIL PRESSURE CAN
PUNCTURE OR CUT SKIN RESULTING
IN SERIOUS INJURY OR DEATH.



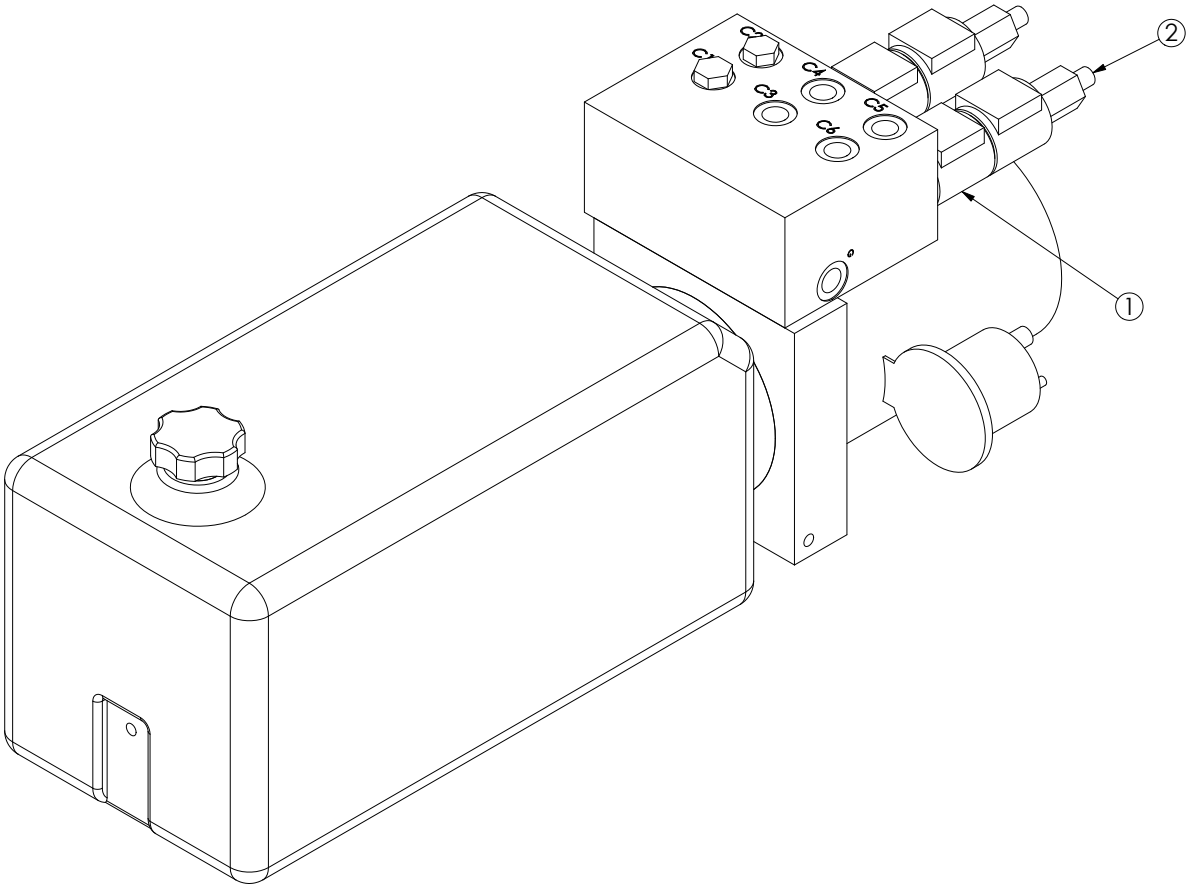

NOTE:
1. CONNECT HOSE TO CORRESPONDING PORT FOUND ON THE VALVE BANK.

| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 2 | BLT38X1NC | 3/8X1 BOLT |
| 2 | 1 | BLT516X34NC | 5/16X3/4 BOLT |
| 3 | 1 | HYD6408-4 | 1/4 MALE PLUG |
| 4 | 2 | HYD6801-4-4 | ADAPTER ELBOW |
| 5 | 4 | HYD6801-6-8 | REDUCER ELBOW |
| 6 | 2 | HYD6801LL-4-4 | LONG LEG ADAPTER ELBOW |
| 7 | 4 | JES73B | ORANGE WIRE NUT |
| 8 | 1 | LM310284 | 20” HYDRAULIC CYLINDER |
| 9 | 1 | MON102078 | 8” HYDRAULIC CYLINDER |
| 10 | * | MON600151 | DISCHARGE SWITCHBOX |
| 11 | 20 | OILDEXTRON | OIL |
| 12 | 1 | SAC73612 | POWER UNIT |
| 13 | 1 | SAC74188 | POWER UNIT MOUNT |
| 14 | 1 | SAC74189 | HYDRAULIC HOSE |
| 15 | 1 | SAC74190 | HYDRAULIC HOSE |
| 16 | 1 | SAC74191 | HYDRAULIC H OSE |

| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 17 | 1 | SAC74206 | HYDRAULIC HOSE |
| 18 | 1 | SCA170067 | INDICATOR BRACKET |
| 19 | 1 | SCA170082 | SWITCHBOX |
| 20 | 4 | SP10X34TS | #10X3/4 SELF TAPPING SCREW |
| 21 | 4 | SP14X1TS | 1/4X1 SELF TAPPING SCREW |
| 22 | 144 | SPCABLETIEMED | MEDIUM CABLE TIE |
| 23 | 3 | STI700290 | ROMEX CONNECTOR |
| 24 | 144 | STI700418 | BATTERY CABLE |
| 25 | 4 | STI700423 | 13/32 COPPER LUG |
| 26 | 1 | STI701246 | FUSE |
| 27 | 1 | STI701247 | FUSE BLOCK |
| 28 | 2 | WSH38FLAT | 3/8” FLAT WASHER |
| 29 | 2 | WSH38LOCK | 3/8” LOCK WASHER |
| 30 | 1 | WSH516FLAT | 5/16” FLAT WASHER |
| 31 | 1 | WSH516LOCK | 5/16” LOCK WASHER |
| * | * | HYDPMCK9000 | SEAL KIT FOR CYLINDER |

# HYDRAULICS BREAKDOWN

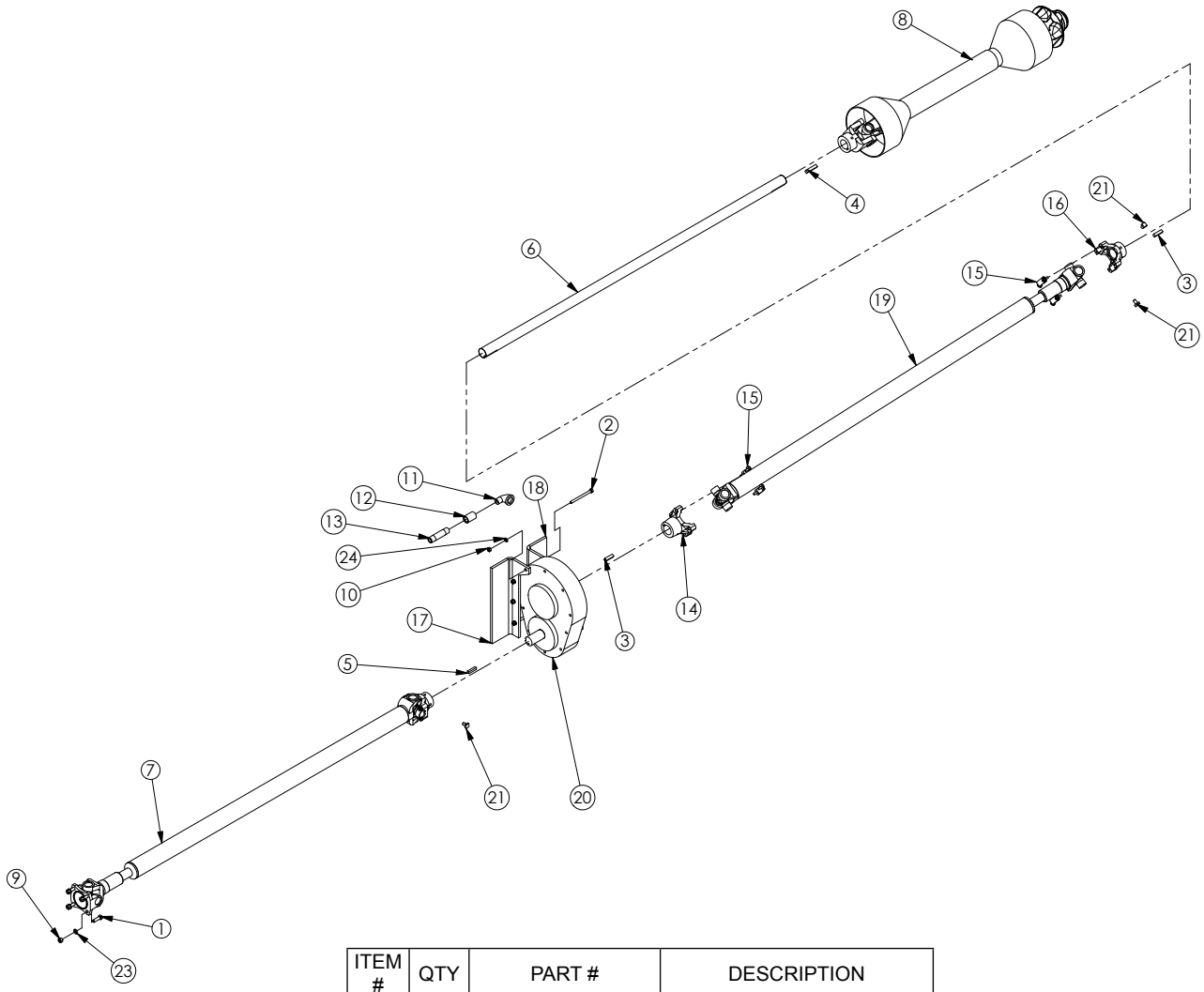
2 VALVE 12 VOLT DC HYDRAULIC POWER UNIT (SAC73612)




| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 4 | SAC73613-1 | CARTRIDGE COIL |
| 2 | 2 | SAC73613-2 | HYDRAULIC CARTRIDGE |

# DRIVE ASSEMBLY

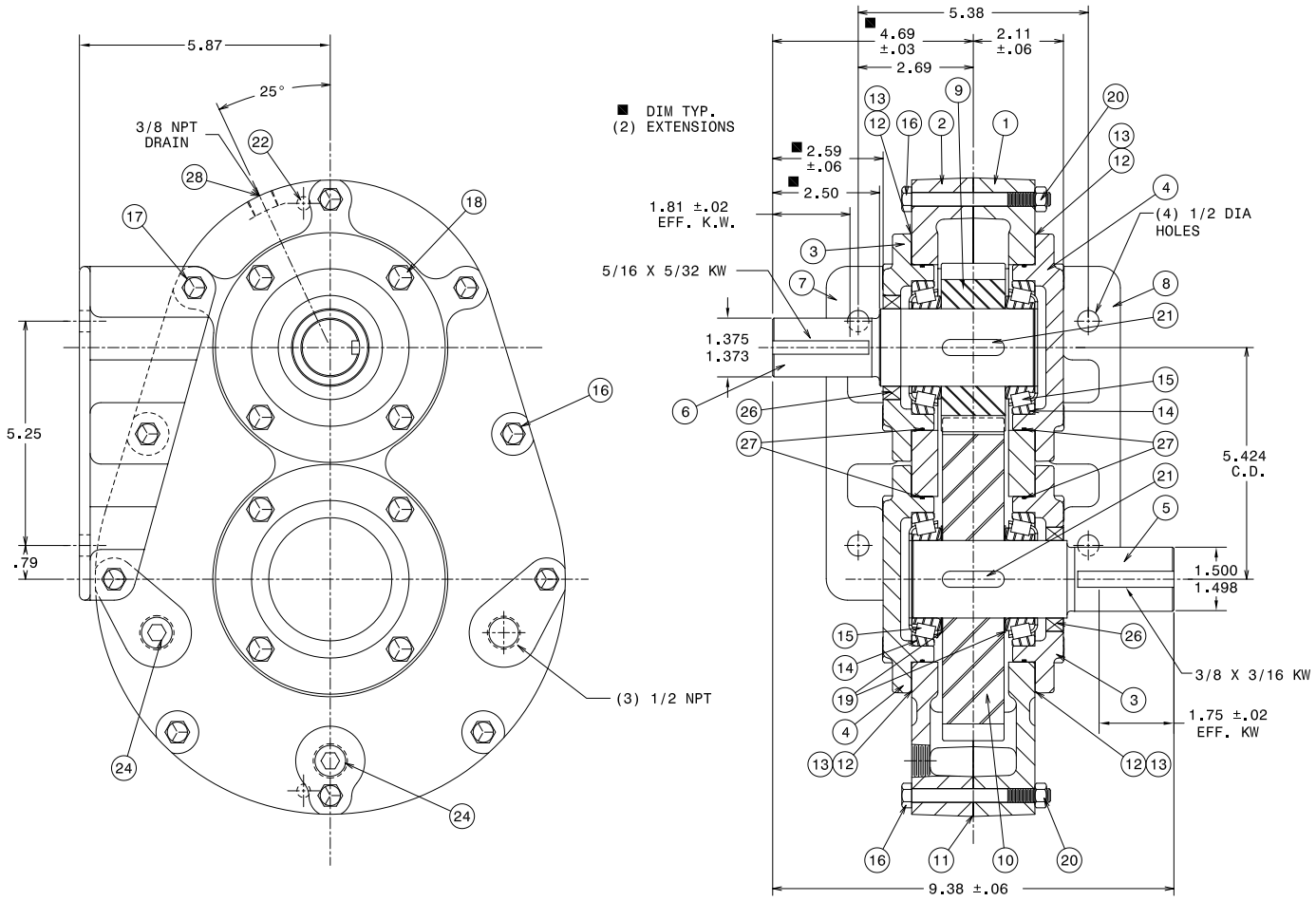
DRIVE BREAKDOWN 2:1 GEARBOX (MON900784)




| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 4 | BLT38X114NC | 3/8X1-1/4 BOLT |
| 2 | 4 | BLT516X4NC | 5/16X4 BOLT |
| 3 | 1 | KEY38X112 | 3/8 KEY STOCK |
| 4 | 1 | KEY38X2 | 3/8 KEY STOCK |
| 5 | 1 | KEY516X112 | 5/16 KEY STOCK |
| 6 | 1 | MON103152 | INPUT SHAFT |
| 7 | 1 | MON900740 | PTO DRIVELINE, 63.75 |
| 8 | 1 | MON900785 | 35R PTO SHAFT |
| 9 | 4 | NUT38NC | 3/8 NUT |
| 10 | 4 | NUT516NC | 5/16 NUT |
| 11 | 1 | PFBL1290STEL | ELBOW |
| 12 | 1 | PFBL12COU | COUPLER |
| 13 | 1 | PFBL12X312NIP | NIPPLE |
| 14 | 1 | PTO3-4-333 | ROUND YOKE |
| 15 | 2 | PTO3-70-28X | CROSS RETAINER KIT |
| 16 | 1 | SAC35263 | DRIVELINE YOKE |
| 17 | 1 | SAC60546 | FRONT GEARBOX MOUNT |
| 18 | 1 | SAC60547 | REAR GEARBOX MOUNT |
| 19 | 1 | SAC75757 | DRIVELINE |
| 20 | 1 | SP2.1GEARBOX | 2:1 GEARBOX |
| 21 | 4 | SPSQHNC38X58H | SQUARE SET SCREW |
| 22 | 1 | STI701790 | INDICATOR DECAL |
| 23 | 4 | WSH38LOCK | 3/8” LOCK WASHER |
| 24 | 4 | WSH516LOCK | 5/16” LOCK WASHER |

# DRIVE ASSEMBLY

## 2:1 GEARBOX BREAKDOWN (SP2.1GEARBOX)

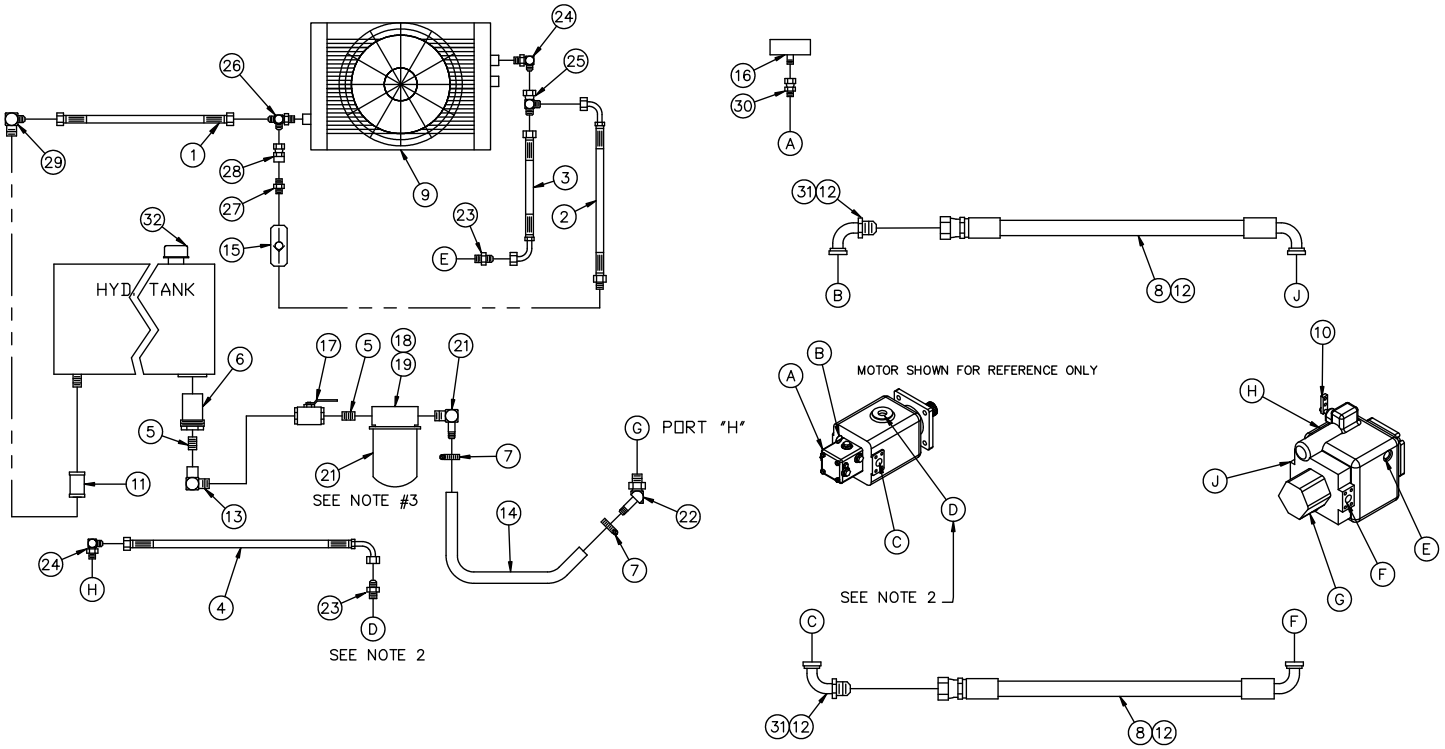



| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 1 | 0223-00164 | HOUSING HALF |
| 2 | 1 | 0225-00439 | HOUSING HALF |
| 3 | 2 | 0223-00166 | OPENED CAP |
| 4 | 2 | OSW831721 | CLOSED CAP |
| 5 | 1 | SAC35294 | OUTPUT SHAFT |
| 6 | 1 | 0225-01266 | INPUT SHAFT |
| 7 | 1 | 0223-00169 | MOUNTING BRACKET |
| 8 | 1 | 0223-00170 | MOUNTING BRACKET |
| 9 | 1 | 0223-00178 | 20 TOOTH LH GEAR |
| 10 | 1 | SP0223-00174 | 40 TOOTH RH GEAR |
| 11 | 1 | OSW831728 | GASKET |
| 12 | 8 | MPRM344215 | .002 SHIM (RED) |
| 13 | 8 | MPRM344215A | .005 SHIM (BLUE) |
| 14 | 4 | TIM18620 | BEARING CUP |

| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 15 | 4 | TIM18690 | BEARING CUP |
| 16 | 7 | BLT516X314NC | 5/16X3-1/4 BOLT |
| 17 | 3 | BLT516X4NC | 5/16X4 BOLT |
| 18 | 16 | BLT38X1NC | 3/8X1 BOLT |
| 19 | 2 | OSW833780 | SHIM |
| 20 | 10 | NUT516NC | 5/16 NUT |
| 21 | 2 | 8471705050 | 3/8 KEY X 1-7/16 |
| 22 | 2 | 8471709001 | DOWEL PIN |
| 23 | 1 | 8631251002 | 1/2X1/8NPT PIPE |
| 24 | 2 | SP8631261004 | 1/2NPT PLUG |
| 25 | 1 | 8631271001 | VENTED PLUG |
| 26 | 2 | SELCR18039 | SEAL |
| 27 | 4 | 8748009070 | O-RING |
| 28 | 1 | PFBL38PLUG | 3/8 PLUG |

# DRIVE ASSEMBLY

## HYDROSTATIC DRIVE BREAKDOWN (MON900620)




**WARNING!**
HYDRAULIC OIL PRESSURE CAN PUNCTURE OR CUT SKIN, RESULTING IN SERIOUS INJURY OR DEATH.

ALWAYS RELEASE HYDRAULIC OIL PRESSURE BY (1) DISCONNECTING ALL TRACTOR LINES AND PTO, AND (2) PROPERLY RELIEVING OIL PRESSURE.

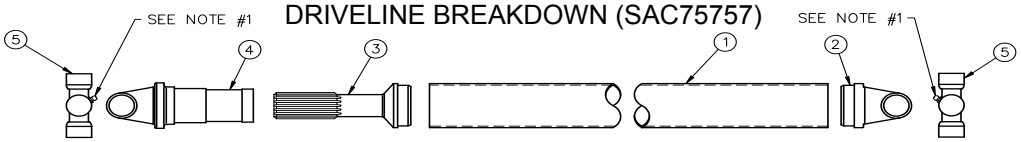
NOTE:
1.) CONNECT CORRESPONDING LETTERS TO PUMP AND MOTOR.
2.) MOTOR CASE DRAIN PORT CONNECTION MUST BE TOWARDS TOP
3.) REPLACEMENT FILTER PART NUMBER IS # HYDR750H0806

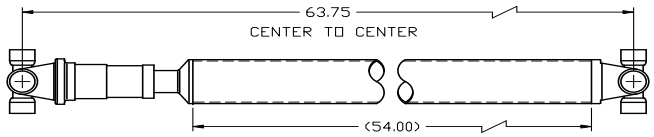
| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 1 | MON701017 | HYDRAULIC HOSE |
| 2 | 1 | MON700665 | HYDRAULIC HOSE |
| 3 | 1 | MON701018 | HYDRAULIC HOSE |
| 4 | 1 | MON701019 | HYDRAULIC HOSE |
| 5 | 2 | PFBL114CLNIP | 1-1/4" NIPPLE |
| 6 | 1 | HYDS25100RV3 | TANK STRAINER |
| 7 | 2 | SPHC125 | HOSE CLAMP |
| 8 | 2 | MON800442 | HYDRAULIC HOSE |
| 9 | 1 | MON800349 | OIL COOLER |
| | 1 | MON102477 | COOLER MOUNT |
| | 4 | BLT14X1NC | 1/4X1 BOLT |
| | 4 | NUT14LOCKNC | 1/4" LOCK NUT |
| | 4 | WSH14LOCK | 1/4" LOCK WASHER |
| 10 | 1 | MON102395 | HYDRAULIC PUMP |
| | 1 | MON101479 | HYDROSTAT MOUNT |
| | 1 | MON101669 | PUMP HOOD |
| | 1 | MON701062 | CAB MOUNTING BRACKET |
| | 1 | SCA170067 | INDICATOR BRACKET |
| | 4 | BLT38X1NC | 3/8X1 BOLT |
| | 4 | WSH38FLAT | 3/8" FLAT WASHER |
| | 4 | WSH38LOCK | 3/8" LOCK WASHER |
| | 1 | NUT38WING | 3/8" WINGNUT |
| | 1 | KN172947 | HYDRO CONTROL LEVER |
| | 1 | KN172948 | HYDRO CONTROL CABLE |
| | 1 | MON800452 | BALL JOINT |
| | 1 | MON900420 | DRIVELINE |
| | 1 | PTO-3-4-84-1 | TAPERED YOKE |
| | 4 | BLT916X2NF | 9/16X2 BOLT FINE |
| | 4 | NUT916LOCKNF | 9/16 LOCK NUT FINE |
| | 4 | WSH916LOCK | 9/16" LOCK WASHER |
| | 4 | WSH12FLAT | 1/2" FLAT WASHER |
| | 4 | BLT14X1NC | 1/4X1 BOLT |
| | 2 | NUT14LOCKNC | 1/4" LOCK NUT |
| | 4 | WSH14LOCK | 1/4" LOCK WASHER |

| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 11 | 4 | PFBL114COU | COUPLER |
| 12 | 4 | HYD16SFO | SPLIT FLANGE |
| 13 | 1 | HYD5502-20-20 | ADAPTER ELBOW |
| 14 | * | HYD114SUCHOSE | SUCTION HOSE |
| 15 | 1 | HYDPCFC1200S65 | CHECK VALVE |
| 16 | 1 | HYD10000FLBM | FLUID PRESSURE GAUGE |
| 17 | 1 | PFBR114BVALVE | 1-1/4 BALL VALVE |
| 18 | 1 | HYDFA5N2025T | FILTER HEAD |
| 19 | 1 | HYDCI20 | INDICATOR GAUGE |
| 20 | 1 | HYDR750T0806 | 6 MICRON FILTER ELEMENT |
| 21 | 1 | HYD4501-20 | ADAPTER ELBOW |
| 22 | 1 | HYD4603-20-16 | ADAPTER |
| 23 | 2 | HYD6400-12-12 | ADAPTER |
| 24 | 2 | HYD6801-12-12 | ADAPTER ELBOW |
| 25 | 1 | HYD6602-12 | ADAPTER TEE |
| 26 | 1 | HYD6804-12-12 | ADAPTER TEE |
| 27 | 1 | HYD5404-12-12 | NIPPLE |
| 28 | 1 | HYD6506-12-12 | ADAPTER |
| 29 | 1 | HYD2501-16-20 | ADAPTER ELBOW |
| 30 | 1 | HYD6900-4-4 | ADAPTER |
| 31 | 2 | HYD6890-16-16 | SPLIT FLANGE ADAPTER |
| 32 | 1 | MON102432 | HYDRAULIC RESERVIOR |
| | 2 | PFBL14PLUG | 1/4" PLUG |
| | 1 | STI591765 | BREATHER |
| | 1 | STI701890 | ADAPTER |
| | 1 | STI702230 | SIGHT GAUGE |
| | 1 | STI7018981 | CAP |

# DRIVELINE ASSEMBLY

## DRIVELINE BREAKDOWN (SAC75757)



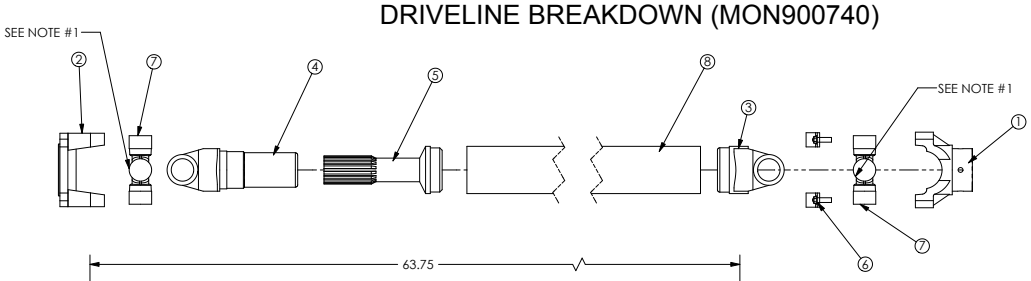



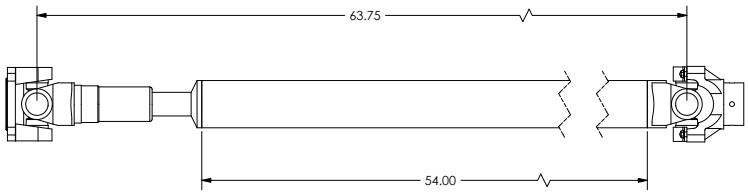

NOTE:
1.) GREASE ZERKS TO BE LOCATED AS SHOWN TO BE ACCESSIBLE.

KNUCKLES MUST BE ALIGNED

| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 1 | SAC30078 | PTO TUBE |
| 2 | 1 | PTO3-28-47 | TUBE YOKE |
| 3 | 1 | PTO3-40-1471 | SLIP SHAFT |
| 4 | 1 | PTO3-3-598KX | SLIP SLEEVE YOKE |
| 5 | 2 | PTO5-178X | AUTO CROSS |

## DRIVELINE BREAKDOWN (MON900740)

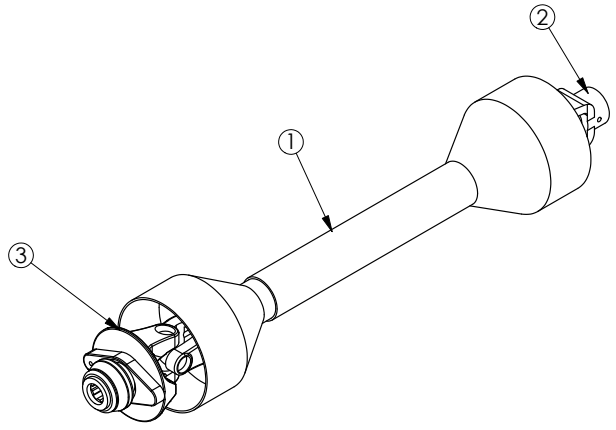



NOTE:
1. GREASE ZERKS TO BE LOCATED AS SHOWN TO BE ACCESSIBLE.
2. KNUCKLES MUST BE ALIGNED

| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 1 | DM100539 | 1.38 ROUND YOKE |
| 2 | 1 | PTO3-2-119 | 1350 SERIES YOKE FLANGE |
| 3 | 1 | PTO3-28-47 | TUBE YOKE |
| 4 | 1 | PTO3-3-598KX | SLIP SLEEVE YOKE |
| 5 | 1 | PTO3-40-1471 | STUB SHAFT SLIP YOKE |
| 6 | 1 | PTO3-70-28X | U-BOLT |
| 5 | 2 | PTO5-178X | AUTO CROSS |
| 6 | 1 | SAC30078 | DRIVELINE TUBE |

## DRIVELINE BREAKDOWN (DM900129)

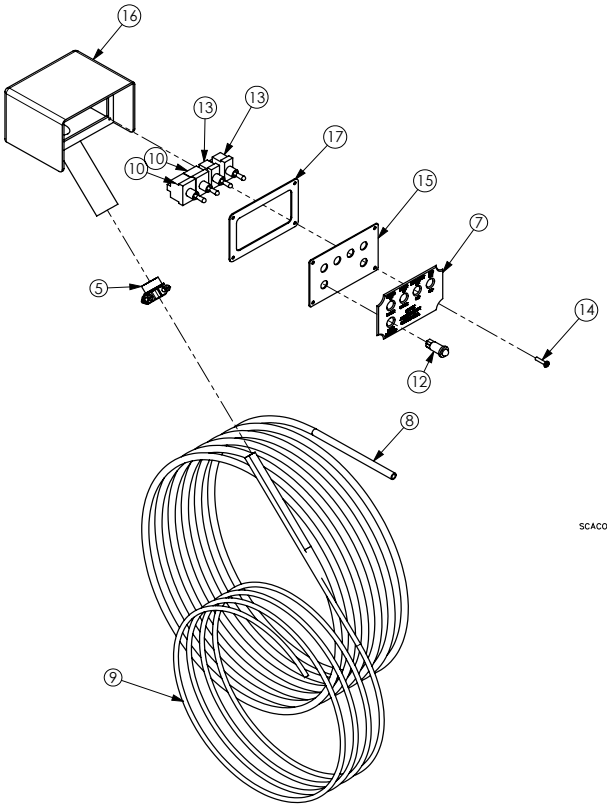



| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 1 | VM800003 | 35R 540 PTO |
| 2 | 1 | PTO221178 | ROUND YOKE CROSS |
| 3 | 1 | MON800408 | 35R SHEAR YOKE |
| 4 | -1 | PTO1013506 | 35R 1.38 6SPLINE YOKE |

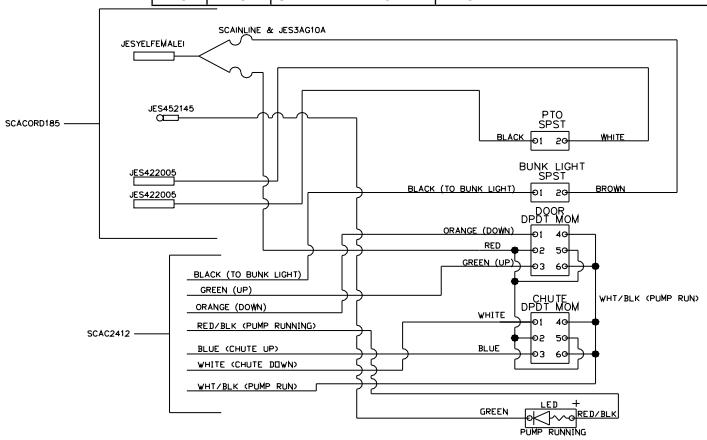
REMOVE PTO1013506 AND RETURN TO INVENTORY.

# CONTROL BOX BREAKDOWN

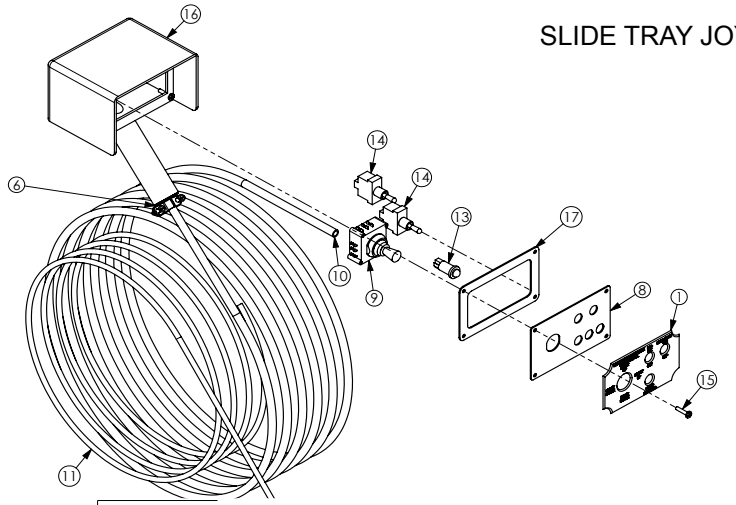
## SLIDE TRAY SWITCH ASSEMBLY (SCA170075)



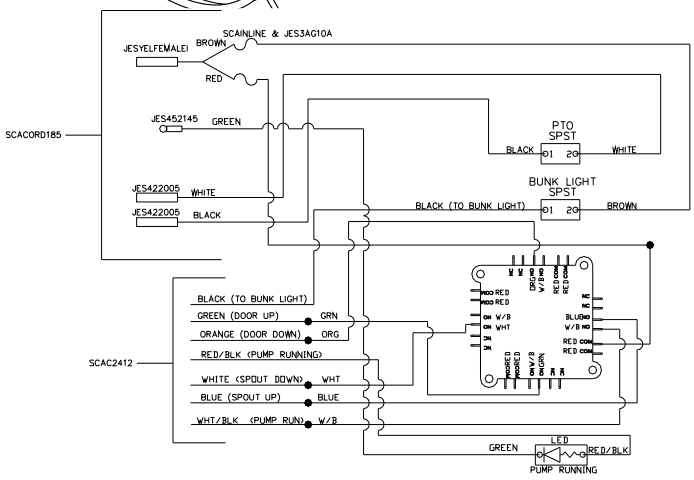

| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 2 | JESAG10A | 1/4X1 FUSE |
| 2 | 4 | JES422005 | BUTT CONNECTOR |
| 3 | 1 | JES452145 | RING TERMINAL |
| 4 | 1 | JES461065 | FORK TERMINAL |
| 5 | 1 | JES6624 | ROMEX CONNECTOR |
| 6 | 1 | JESYELFEMALEI | INSULATED FEMALE SPADE TERMINAL |
| 7 | 1 | SACP10211 | FACE PLTE |
| 8 | 240 | SCAC2412 | 12 CONDUCTOR CORD |
| 9 | 96 | SCACORD185 | 5 CONDUCTOR CORD |
| 10 | 2 | SCADPDTMOM | MOMENTARY TOGGLE SWITCH |
| 11 | 1 | SCAINLINE | FUSE HOLDER |
| 12 | 1 | SCAL50171 | LED LAMP |
| 13 | 2 | SCASPSTC | TOGGLE SWITCH |
| 14 | 4 | SPMB832X34SSP | 8-32X3/4 MACHINE SCREW |
| 15 | 1 | STI100156 | CONTROL BOX COVER |
| 16 | 1 | STI200109 | CONTROL BOX |
| 17 | 1 | STI610809 | GASKET |
| 18 | 18 | STIWIRE12PR02 | 12 GA RED WIRE |




## SLIDE TRAY JOYSTICK ASSEMBLY (SCA170081)



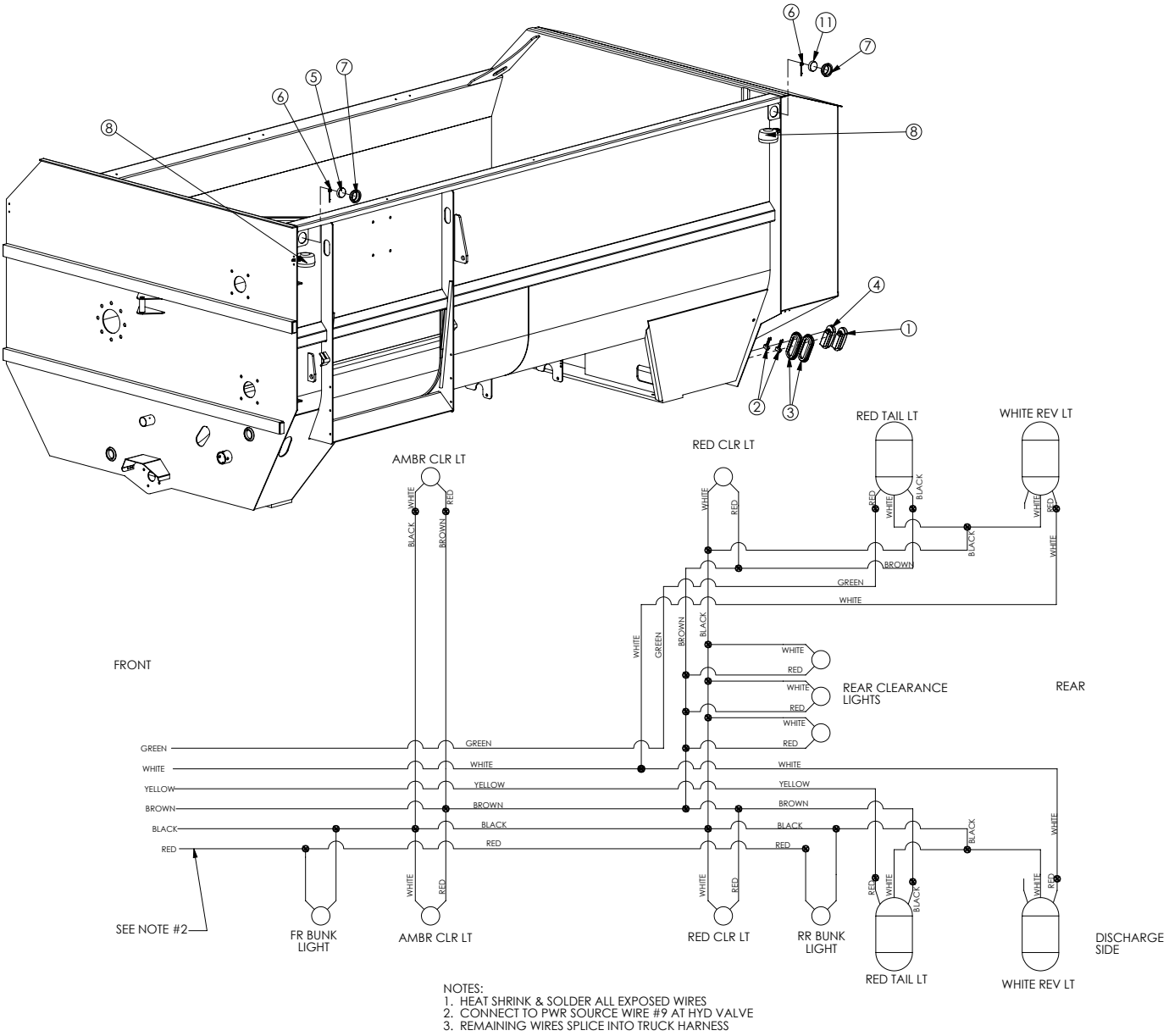

| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 1 | DEC279 | JOYSTICK FACE PLATE |
| 2 | 2 | JESAG10A | 1/4X1 FUSE |
| 3 | 2 | JES422005 | BUTT CONNECTOR |
| 4 | 1 | JES452145 | RING TERMINAL |
| 5 | 4 | JES461065 | FORK TERMINAL |
| 6 | 1 | JES6624 | ROMEX CONNECTOR |
| 7 | 1 | JESYELFEMALEI | INSULATED FEMALE SPADE TERMINAL |
| 8 | 1 | SCA170078 | CONTROL BOX COVER |
| 9 | 1 | SCA170089 | JOYSTICK SWITCH |
| 10 | 240 | SCAC2412 | 12 CONDUCTOR CORD |
| 11 | 82 | SCACORD185 | 5 CONDUCTOR CORD |
| 12 | 2 | SCAINLINE | FUSE HOLDER |
| 13 | 1 | SCAL50171 | LED LAMP |
| 14 | 2 | SCASPSTC | TOGGLE SWITCH |
| 15 | 4 | SPMB832X34SSP | 8-32X3/4 MACHINE SCREW |
| 16 | 1 | STI200109 | CONTROL BOX |
| 17 | 1 | STI610809 | GASKET |
| 18 | 18 | STIWIRE14PR02 | 14 GA RED WIRE |




NOTE: BOTTOM VIEW OF SWITCHES

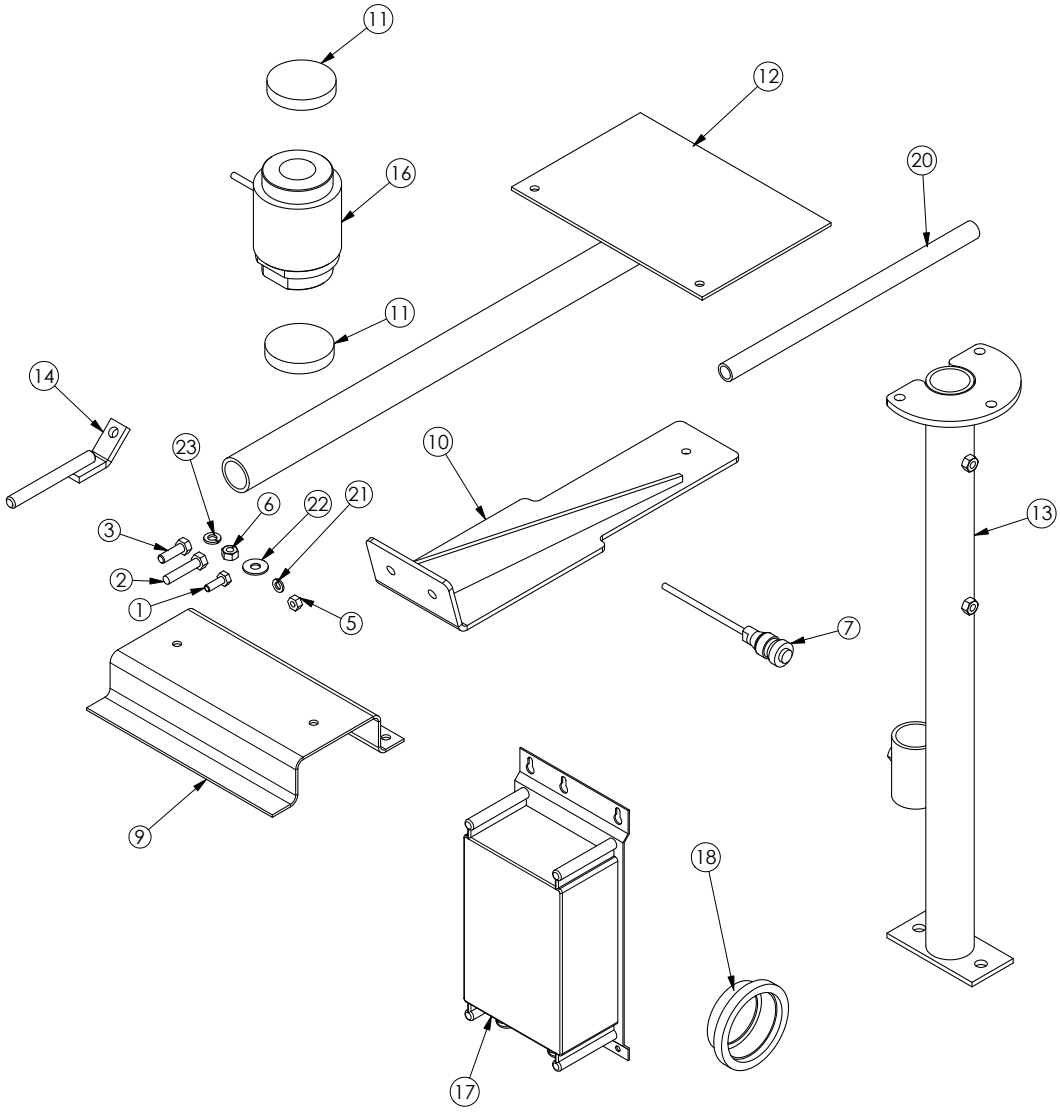
# LIGHTING BREAKDOWN

LIGHT KIT (MON900737)



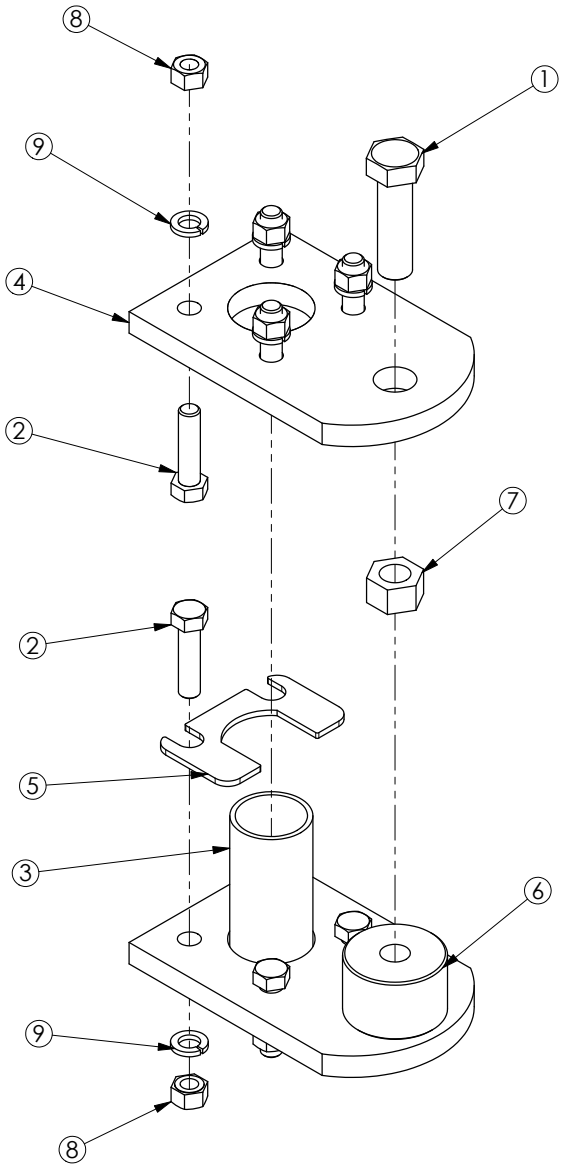

| ITEM # | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 2 | KN174674 | OVAL RED LIGHT |
| 2 | 4 | KN174724 | RIGHT ANGLE CONNECTOR |
| 3 | 4 | KN174725 | OVAL LIGHT GROMMET |
| 4 | 2 | KN174794 | OVAL BACKUP LIGHT |
| 5 | 2 | MON800487 | AMBER CLEARANCE LIGHT |
| 6 | 4 | SPB14250 | 2 WIRE CONNECTOR PLUG |
| 7 | 4 | SPB14318 | FLUSH ROUND GROMMET |
| 8 | 2 | SPZBJ64931 | BUNK LIGHT |
| 9 | 48 | STI14SHRINK | 1/4 HEAT SHRINK TUBING |
| 10 | 6 | STI700200 | 1/2" LOOM CLAMP |
| 11 | 2 | STI702595 | RED CLEARANCE LIGHT |
| 12 | 700 | STIWIRE14PR01 | 14GA BLACK WIRE |
| 13 | 48 | STIWIRE14PR02 | 14GA RED WIRE |
| 14 | 500 | STIWIRE14PR05 | 14GA YELOOW WIRE |
| 15 | 700 | STIWIRE14PR06 | 14GA BROWN WIRE |
| 16 | 600 | STIWIRE14PR38 | 14GA WHITE WIRE |
| 17 | 600 | STIWIRE14PR39 | 14GA GREEN WIRE |

# DS TRUCK REMOTE SCALE KIT




| ITEM | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 14 | BLT14X34NC | 1/4X3/4 BOLT |
| 2 | 5 | BLT516X112NC | 5/16X1-1/2 BOLT |
| 3 | 7 | BLT516X1NC | 5/16X1 BOLT |
| 4 | 2 | JES452385 | 16-14 TERMINAL RING |
| 5 | 14 | NUT14NC | 1/4” NUT |
| 6 | 10 | NUT516NC | 5/16” NUT |
| 7 | 1 | SAC170008 | 10’ POWER CABLE |
| 8 | 1 | SCA170009 | POWER CABLE EXTENSION |
| 9 | 1 | SCA170024 | DS INDICATOR BRACKET |
| 11 | 8 | SCA170030 | LOADCELL SHIM |
| 12 | 1 | SAC170040 | INDICATOR BRACKET |
| 13 | 1 | SCA170041 | INDICATOR BRACKET BASE |
| 14 | 6 | SCA170042 | BRACKET TAB |
| 15 | 1 | SCA170053 | 15’ CABLE |
| 16 | 4 | SCA403275 | DS LOADCELL |
| 17 | 1 | SCA404930 | JUNCTION BOX |
| 18 | 1 | SPB14418 | GROMMET |
| 19 | 30 | SPCABLETIEMED | CABLE TIE |
| 20 | 96 | WRM38TEPIPE | 3/8” PIPE |
| 21 | 14 | WSH14LOCK | 1/4” LOCK WASHER |
| 22 | 10 | WSH516FLAT | 5/16” FLAT WASHER |
| 23 | 10 | WSH516LOCK | 5/16” LOCK WASHER |

# DUMMY SCALE KIT




| ITEM | QTY | PART # | DESCRIPTION |
|---|---|---|---|
| 1 | 1 | BLT1X312NC | 1X3-1/2 BOLT |
| 2 | 8 | BLT58X212NC | 5/8X2-1/2 BOLT |
| 3 | 1 | MON101850 | 2”X5” DOUBLE STRENGTH PIPE |
| 4 | 1 | MON102639-1 | WEIGHBAR RETAINER |
| 5 | 1 | MON102641 | LOADCELL BRACKET |
| 6 | 1 | MON701096 | WEIGHBAR BRACKET |
| 7 | 1 | NUT1NC | 1” NUT |
| 8 | 8 | NUT58NC | 5/8” NUT |
| 9 | 8 | WSH58LOCK | 5/8 LOCK NUT |

# WARRANTY

SIOUX AUTOMATION CENTER, INC.(Hereafter noted as SAC) warrants to the original purchaser of a new SAC product from an authorized SAC dealer that the product and the components therof manufactured by SAC are free from defects in material and workmanship at the time of shipment. SAC further warrants to such purchaser that each new SAC product will perform without structural or operational failure, if the product is assembled and mounted in accordance with SAC's instruction and drawing, and is then operated and maintained as described in the Owner's Manual.

## WARRANTY PERIOD

The above warranty on materials and workmanship shall be effective for a period of one year for non-commercial users and 6 months for all commercial users, with the exception of ROTO PRESS products, which shall be effective for a period of one year for all users. The warranty period shall be effective from the date of delivery by the SAC dealer to the initial purchaser.

## PURCHASER'S REMEDIES

If a warranted SAC product or component fails to conform to the above warranty during the warranty period, SAC will furnish the parts and labor at the factory or authorized dealer necessary to correct such failure, provided SAC is notified through the selling representative within 30 days of the discovery of the failure. All warranty submissions must include the original part in question, along with a properly filled out warranty claim sheet, before a warranty award will be made. Labor at the factory or dealer is specified as labor done at the SAC factory or SAC authorized dealer ONLY! SAC will pay the common carrier freight expense of parts to and from the owner. Faster freight service is available, with the owner paying the difference in cost between common carrier and preferred method by owner. Freight of whole goods to or from the factory is the owner's expense, regardless if they fail under warranty or not. All warranty decisions will be final!

## EXCLUSIONS

This warranty shall not apply to component parts or accessories of products not manufactured by SAC and which carry the warranty of the manufacturer therof. Items of high wear and regular maintenance shall not be covered under this warranty. This warranty shall be void if any part or parts not manufactured by SAC are used either in maintaining or servicing of the products covered by this warranty. No warranty whatsoever is made on used, secondhand, altered, or rebuilt machinery.

**THIS WARRANTY IS EXTENDED ONLY TO THE INITIAL PURCHASER FROM AN AUTHORIZED SAC DEALER AND MAY NOT BE REASSIGNED. THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FOR A PARTICULAR PURPOSE AND SAC NEITHER ASSUMES OR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE THEREOF.**

**We reserve the right to make improvements to any of our products without notice or obligation regarding models previously sold.**

# SIOUX AUTOMATION CENTER, INC.

## *SCALE WARRANTY*

**All scale equipment will be warrantied under the original manufacture warranty. However, SIOUX AUTOMATION CENTER, INC.(Hereafter noted as SAC.) warrants to the original purchaser a LIFETIME LABOR WARRANTY on all scale indicators and remote indicators. The terms of warranty are:**

**LIFETIME - From date of sale to the Original Purchaser:**
**All labor needed to repair the original scale indicator and all original remote indicators.**

**This warranty, as described above, is expressly limited to the labor needed to repair the scale indicator and the remote indicators and does not cover the costs of any parts that may be needed for the indicators repair. All scale indicator labor will be performed at the SAC factory. Any labor performed outside of the SAC factory will not be covered under this warranty. All warranty decisions will be final!**

**This warranty does not cover the cost of labor, parts or transportation charges when any party other than SAC performs the replacement or repair of parts claimed to be defective, nor shall this warranty apply to an SAC product upon which any alterations or repairs other than normal maintenance have been made without the written approval of SAC.**

**SAC shall in no event be liable for consequential damages, lost profits or contingent liabilities arising out of the failure of any SAC product or parts to operate properly.**

**WARRANTY CARD MUST BE FILLED OUT AND RETURNED TO FACTORY IMMEDIATELY UPON RECEIPT OF EQUIPMENT TO INSURE WARRANTY COVERAGE.**

**THIS WARRANTY IS EXTENDED ONLY TO THE INITIAL PURCHASER FROM AN AUTHORIZED SAC DISTRIBUTOR AND MAY NOT BE REASSIGNED. THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FOR A PARTICULAR PURPOSE AND SAC NEITHER ASSUMES OR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY. THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.**

**We reserve the right to make improvements to any of our products without notice or obligation regarding models previously sold.**

**Effective 04/10**

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