



# 1105A - 1355A - 1505A

## Mixer Operation and Parts Manual



**ROTO-MIX**  
**P.O. BOX 1724**  
**2205 E. Wyatt Earp Blvd.**  
**Dodge City, Kansas 67801**  
**(620) 225-1142**



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## INTRODUCTION

Congratulations on the purchase of your new Vertical Mixer from ROTO-MIX. With proper operation and preventative maintenance it will last for years.



This SAFETY ALERT SYMBOL indicates important safety messages in the manual. When you see this symbol, be alert to the possibility of PERSONAL INJURY and carefully read the message that follows.

**⚠ WARNING** NEVER OPERATE WITHOUT ALL COVERS, SHIELDS AND GUARDS IN PLACE. KEEP HANDS, FEET AND CLOTHING AWAY FROM MOVING PARTS.

Some covers and guards have been removed for illustrative/photographic purposes only in this manual. However, equipment should never be operated in this condition. Keep all shields in place. If shield removal becomes necessary for repairs, replace the shield prior to use.

The Guarantee appears in the front of this book along with the Registration and Inspection Certificate.

For information on ordering repair parts, refer to the Repair Parts section at the back of this book.

The serial number plate is located on the drivers side lower front of the main frame. This number should be recorded on the Registration and Inspection Certificate for your reference and for proper identification of your mixer by ROTO-MIX.

You are urged to study this manual and follow the instructions carefully. Your efforts will be repaid in better operation and service as well as a savings in time and repair expense.

Failure to read this manual and understand the safe operation of the mixer could lead to serious injury.

If you do not understand the instructions in this manual contact either your dealer or ROTO-MIX at Dodge City, Kansas 67801.

This supersedes all previous published instructions.



## Limited Warranty Statement

ROTO-MIX LLC warrants to the original purchaser all products manufactured by it to be free from defects in material and workmanship under normal use and service.

ROTO-MIX's obligation under this warranty is limited to repairing or replacing, as the company may elect, free of charge and without charge for installation, at the place of business of a dealer or distributor authorized to handle the equipment covered by this warranty or at a ROTO-MIX facility, any parts that prove, in the company's judgment, to be defective in material or workmanship within one (1) year after delivery to the original purchaser, and still owned by the original purchaser. This warranty shall in no way make ROTO-MIX liable to anyone for personal injuries or damages, loss of time, or expense of any kind either direct or indirect resulting from part failure or defect. This warranty is subject to acts of God, fire and existing conditions of supply and demand, or production, or ability or inability to deliver, or for any other valid reason beyond the reasonable control of ROTO-MIX, to obtain materials, manufactured replacement parts, or make delivery thereof. No distributor, dealer, agent, or ROTO-MIX employee (other than the CEO or President in writing) is authorized to extend any other or further express or implied warranty or incur any additional obligation on ROTO-MIX's behalf in connection with the sale of this product.

If ROTO-MIX, or its duly authorized representative, shall find that such returned part or parts are defective and such defects, or defect, are included in and covered by said warranty, then such defective part or parts shall promptly be replaced without charge to the purchaser, F.O.B. the ROTO-MIX plant.

**Product Registration** - It is a condition of this warranty that the original purchaser must fill out the warranty card furnished by ROTO-MIX and that it be returned to ROTO-MIX within 10 days of purchase and be recorded in ROTO-MIX's owner file for this warranty to be valid. In the event an owner's card is not on file at the ROTO-MIX office, the warranty period will extend only from date equipment was picked up or shipped from the ROTO-MIX plant.

**Maintenance** - It is the customer's responsibility to maintain their equipment in accordance with the instructions provided in the Operator's Manual. ROTO-MIX recommends that you keep records and receipts; you may be asked to prove that maintenance instructions have been followed.

**Operation** - It is the customer's responsibility to operate the equipment only for the purpose for which it was designed and in accordance with all safety and operational recommendations contained in the Operators Manual. If a defect in materials or workmanship occurs, it is the customer's responsibility to cease operating the equipment until authorized repairs are made. **Damage, which occurs from continued operation, may not be covered by this warranty.**

### What this Warranty Covers

This warranty covers failures caused by defects in materials or workmanship only.

### This Warranty does not cover failures caused by:

- |                              |                             |                         |
|------------------------------|-----------------------------|-------------------------|
| - Improper operation         | - Use of Non ROTO-MIX parts | - Usage contrary to the |
| - Natural calamities         | - Neglected maintenance     | intended purpose of the |
| - Unauthorized modifications | - The use of PTO Shaft      | product                 |
| - Unauthorized repairs       | Adaptors                    |                         |

Warranty continues on the next page.

## ***Limited Warranty Statement continued***

**This Warranty does not cover replacement of Wear or Maintenance Items including, but not limited to.**

- |              |          |             |          |
|--------------|----------|-------------|----------|
| - Lubricants | - Tires  | - Chains    | - Blades |
| - Filters    | - Augers | - Idlers    | - Belts  |
| - Hoses      | - Wipers | - Batteries |          |

**This Warranty does not cover:**

- Pickup and delivery of the equipment
- Service Calls or Travel Time to and from sites
- Rental of replacement equipment during repair period
- Products that have been declared a total loss and subsequently salvaged
- Overtime labor charges
- ROTO-MIX is not responsible and will not be liable for damage caused to persons or property, commercial loss, loss of time or production, loss of use by reason of the installation or use of ROTO-MIX products or their mechanical failure.

### **Right to Make Changes**

ROTO-MIX reserves the right to make any changes to a ROTO-MIX product at any time without incurring any obligation with respect to any product previously ordered, sold or shipped, with or without notice.

### **Parts Warranty**

ROTO-MIX warrants replacement parts against defects in materials or workmanship for a period of 90 days or the remainder of the product warranty, whichever is longer. Remedy for defective replacement parts for units that are beyond the original product warranty, will be limited to replacement of the failed part. Failures that are due to damage, improper installation, lack of maintenance or improper operation will not be covered.

**ROTO-MIX 2205 East Wyatt Earp Blvd., Dodge City, KS 67801 (620) 225-1142 Fax: (620) 225-6370**

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## ***SCALES WARRANTY & SERVICE POLICY***

### **DIGI-STAR SCALE SYSTEMS**

Digi-Star, LLC warrants for a period of one year from date of installation, to correct by repair or replacement, at Digi-Star's option, any defect in material or workmanship in any part of this product. In the event of replacement, Digi-Star's sole obligation shall be to provide replacement products or parts. F.O.B. Digi-Star, LLC, W5527 Hwy 106, Fort Atkinson, WI 53538 USA.

### **WEIGH-TRONIX SCALE SYSTEMS**

WEIGH-TRONIX warrants for a period of one year from date of installation, to correct by repair or replacement, at Weigh-Tronix's option, any defect in material or workmanship in any part of this product. In the event of replacement, Weigh-Tronix's sole obligation shall be to provide replacement products or parts. F.O.B. Avery Weigh-Tronix, 1000 Armstrong Drive, Fairmont, MN 56031-1439 USA.

## **OPERATOR QUALIFICATIONS**

Operation of this mixer/feeder shall be limited to competent and experienced persons. In addition, anyone who will operate or work around a mixer/feeder must use good common sense. In order to be qualified, he or she must also know and meet all other qualifications, such as:

1. Some regulations specify that no one under the age of sixteen (16) may operate power machinery. It is your responsibility to know what these regulations are in your area and/or situation.
2. Current OSHA regulations state in part: At the time of initial assignment and at least annually thereafter, the employer shall instruct **EVERY** employee in the safe operation and servicing of all equipment with which the employee is, or will be involved.
3. Unqualified persons are to **STAY OUT OF THE WORK AREA.**
4. A person who has not read and understood all operating and safety instructions is not qualified to operate the machinery.

**FAILURE TO READ THIS MIXER/FEEDER MANUAL AND ITS SAFETY INSTRUCTIONS IS A MISUSE OF THE EQUIPMENT.**



## **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.



**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 the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

**WARNING:** Indicates a potentially hazardous situation that, if not avoided, will 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.

If you have questions not answered in this manual or require additional copies or the manual is damaged, please contact your dealer or ROTO-MIX, 2205 E. Wyatt Earp, Dodge City, Kansas, 67801. (Telephone) 620-225-1142 (Fax) 620-225-6370

## **SAFETY FIRST**

**REMEMBER:** The careful operator is the best operator. Most accidents are caused by human error. Certain precautions must be observed to prevent the possibility of injury or death.



**DO NOT ALLOW PERSONNEL OTHER THAN THE QUALIFIED OPERATOR NEAR THE MACHINE.**



**NEVER START MACHINE UNTIL ALL GUARDS AND SAFETY SHIELDS ARE IN PLACE.**



**DO NOT CLEAN, ADJUST OR LUBRICATE THE MACHINE WHILE IT IS IN MOTION.**



**BEFORE STARTING TRACTOR ENGINE, BE SURE PTO SHIELDS TURN FREELY.**



**LOOSE OR FLOPPY CLOTHING SHOULD NOT BE WORN BY THE OPERATOR.**

## **OPERATING PRECAUTIONS & INSTRUCTIONS:**

- A. Check to see that no obstructions are present in the mixer prior to start up.
- B. Before loading, run the mixer empty and check all operations.
- C. Do not overload the mixer. See specification page for maximum weight. Maximum load is determined by weight, not volume.
- D. Be sure all shields are in place before operation.
- E. Use common sense when operating.



## EQUIPMENT SAFETY GUIDELINES



Safety of the operator is one of the main concerns in designing and developing a new piece of equipment. Designers and manufactures build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or for you, follow them.

In order to provide a better view, certain photographs or 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 the shield prior to use.

Replace any CAUTION, WARNING, DANGER or instruction safety decal that is not readable or is missing. Location of such decals are indicated in this manual.

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

Review the safety instructions with all users annually.

This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operations. 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 of how it works.

To prevent injury or death, use a tractor equipped with a Roll Over Protective System (ROPS). 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 the limits of a piece of machinery, in its ability to do a job, or to do so safely, if in question - **DON'T TRY IT.**



## LIGHTING AND MARKING

It is the responsibility of the customer to know the 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.



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## KEEP ALL SHIELDS IN PLACE

Do not operate mixer/feeder without safety shields in place.

Rotating parts can crush or dismember causing personal injury or death.

Disconnect PTO driveline before removing shields for adjustment or service.



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## OPERATE MIXER/FEEDER SAFELY

Rotating parts can entangle or strike people, resulting in personal injury or death.

Never enter a mixer/feeder while in operation.

Operate the mixer/feeder from the operator's seat only.

Do not exceed load capacity of the mixer/feeder. (See loading instructions).

Reduce speed when turning or traveling on rough terrain.

Avoid traveling over loose fill, rocks, ditches or holes.

Keep transmissions in gear when traveling downhill.



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## KEEP RIDERS OFF MIXER/FEEDER

Keep riders off.

Riders are subject to injury such as being struck by foreign objects and being thrown off. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.





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## STAY CLEAR OF ROTATING DRIVELINES

Entanglement in rotating driveline can cause serious injury or death.

Keep tractor master shield and driveline shields in place at all times. Make sure rotating shields turn freely.

Wear close fitting clothing. Stop the engine and be sure PTO driveline is stopped before making adjustments, connections, or cleaning out PTO driven equipment .



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## PREVENT BATTERY EXPLOSIONS

Keep sparks, lighted matches, and open flame away from the top of battery. Battery gas can explode.

Never check battery charge by placing a metal object across the posts. Use a volt-meter or hydrometer.

Do not charge a frozen battery; it may explode. Warm battery to 16C (60F)



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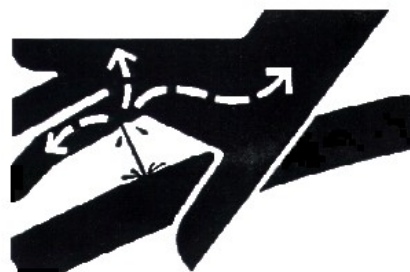
## AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury or death.

Avoid the hazard, relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.





## SAFETY DECAL CARE

Keep safety decals and signs clean and legible at all times.

Replace safety decals and signs that are missing or have become illegible.

Replaced parts that displayed a safety sign should also display the current sign.

Safety decals or signs are available from your dealer or the ROTO-MIX manufacturing plant.

### How to Install Safety Decals:

Be sure that the installation area is clean and dry.

Decide on the exact position before you remove the backing paper of the decal.

Remove the smallest portion of the split backing paper.

Align the decal 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 decal in place.

Small air pockets can be pierced with a pin and smoothed out using the piece of decal backing paper.



**IMPORTANT**  
**ALWAYS REDUCE ENGINE SPEED**  
**TO IDLE BEFORE ENGAGING**  
**AND DISENGAGING PTO.**  
**DISENGAGE TRACTOR PTO**  
**BEFORE TURNING.**

440801



## PRACTICE FIRE PREVENTION

Keep fire extinguishers accessible at all times. Use the extinguisher recommended for the material being processed. It should be rated safe for use on electrical fires.

Never smoke close to combustible material.

Clean the area before welding or other activities which may make sparks.

Keep all components that generate excessive heat clear of oil and other combustible materials.



## **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 dealer or the ROTO-MIX plant.**

### **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.

Keep wheel lug nuts or bolts tightened to specified torque.

Assure that agricultural implement tires are inflated evenly.

Give the 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 that there are no tools lying on or in the mixer/feeder.

Do not use the unit until you are sure that the area is clear, especially children and animals.

Because it is possible that this mixer/feeder may be used in dry areas or the presence of combustibles, special precautions should be taken to prevent fires and fire fighting equipment should be readily available.

Don't hurry the learning process or take the unit for granted. Ease into it and become familiar with your new mixer/feeder.

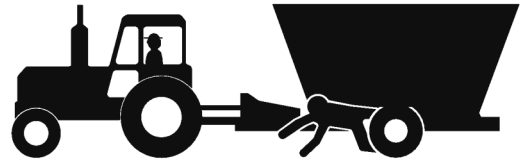
Practice operation of your mixer/feeder and its attachments. Completely familiarize yourself and other operators with its operation before using.

Securely attach to towing unit. Use a high strength, appropriately sized hitch pin with a mechanical retainer.

Do not allow anyone to stand between the tongue or hitch and the towing vehicle when backing up to the mixer/feeder.



## DURING OPERATION:



Beware of bystanders, **particularly children!** Always look around to make sure that it is safe to start the engine of the towing vehicle or 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 carry passengers anywhere on, or in, the tractor or equipment, except as required for operation.

Keep hands and clothing clear of moving parts.

Do not clean, lubricate or adjust your mixer/feeder while it is moving.

Be especially observant of the operating area and terrain - watch for holes, rocks or other hidden hazards. Always inspect the area prior to operation.

**Do not** operate near the edge of drop-offs or banks.

**Do not** operate on steep slopes as overturn may result.

**Operate** up and down (not across) intermediate slopes. Avoid sudden starts and stops.

Pick the flattest possible route when transporting across fields. Avoid the edges of ditches or gullies and steep hillsides.

Be extra careful when working on inclines.

Periodically clear the equipment of brush, twigs or other materials to prevent buildup of dry combustible materials.

Maneuver the tractor or towing vehicle at safe speeds.

Avoid overhead wires or other obstacles. Contact with overhead lines could cause serious injury or death.

Avoid loose fill, 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 the work area.

Operate the towing vehicle from the operator's seat only.

Never stand alongside of the unit with engine running. Never attempt to start engine and/or operate machine while standing alongside of unit.



## DURING OPERATION (CONT.)

Never leave running mixer/feeder unattended.

As a precaution, always recheck the hardware on mixer/feeder following every 100 hours of operation. Correct all problems. Follow the maintenance safety procedures.



## FOLLOWING OPERATION:

Following operation, or when unhitching, stop the tractor or towing vehicle, set the brakes, disengage the PTO and all power drives, shut off the engine and remove the ignition keys.

Store the 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 the stored unit.

Make sure parked machine is on a hard, level surface and engage all safety devices.



Wheel chocks may be needed to prevent unit from rolling.

## HIGHWAY AND TRANSPORT OPERATIONS:

Adopt safe driving practices:

Keep the brake pedals latched together at all times. **Never use independent braking with machine in tow as loss of control and/or upset of unit can result.**

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

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

Avoid sudden uphill turns on steep slopes.

Always keep the tractor or towing vehicle in gear to provide engine braking when going downhill. Do not coast.

Do not drink and drive.



## **HIGHWAY AND TRANSPORT OPERATIONS (CONT.):**

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 the highway during daylight and nighttime transport.

The use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use. Local laws should be checked for all highway lighting and marking requirements.

When driving the tractor and mixer/feeder on the road or highway under 20 MPH (40 KPH) at night or during the day, use flashing amber warning lights and a slow moving vehicle (SMV) identification emblem.

Plan your route to avoid heavy traffic.

Be a safe courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.

Be observant of bridge loading ratings. Do not cross bridges rated lower than the gross weight at which you are operating.

Watch for obstructions overhead and to the side while transporting.

Always operate mixer/feeder in a position to provide maximum visibility at all times. Make allowances for increased length and weight of the mixer/feeder when making turns, stopping the unit, etc.



## **PERFORMING MAINTENANCE:**

Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.

Make sure there is plenty of ventilation. Never operate the engine of the towing vehicle in a closed building. The exhaust fumes may cause asphyxiation.

Before working on the mixer/feeder, stop the towing vehicle, set the brakes, disengage the PTO and all power drives, shut off the engine and remove the ignition keys.

Be certain all moving parts on attachments have come to a complete stop before attempting to perform maintenance.

Always use a safety support and block the wheels. Never use a jack to support the machine.



## **PERFORMING MAINTENANCE (CONT.):**

Always use the proper tools or equipment for the job at hand.

Use extreme caution when making adjustments.

Never use your hands to locate hydraulic leaks on attachments. Use a small piece of cardboard or wood. Hydraulic fluid escaping under pressure can penetrate the skin.



When disconnecting hydraulic lines, shut off hydraulic supply and relieve all hydraulic pressure.

Openings in the skin and minor cuts are susceptible to infection from hydraulic fluid. If injured by escaping hydraulic fluid, see a doctor at once. Gangrene can result. Without immediate treatment, serious infection and reactions can occur.

Replace all shields and guards after servicing and before moving.

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.

Never replace hex bolts with less than grade five (5) bolts unless otherwise specified.

Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications. ROTO-MIX will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.

If equipment has been altered in any way from original design, ROTO-MIX 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 mixer/feeder.

## **READ THE FOLLOWING BEFORE WELDING ON THIS MIXER**

When welding on your mixer/feeder, do not allow the current to flow through the ball bearings or the roller chains. Ground directly to the item being welded.

Always disconnect the scale instrumentation from the weigh bars or load cells and the power source. Be sure the current does not pass through weigh bars or load cells or scale indicator. The alternator should always be disconnected if the mixer/feeder is not disconnected from the towing vehicle.



## PREPARING TRACTOR FOR TRAILER MIXER

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### POSITIONING DRAWBAR

**IMPORTANT:** Drive components can be damaged from excessive speed. Do not operate tractor at speeds in excess of recommended PTO rpm .

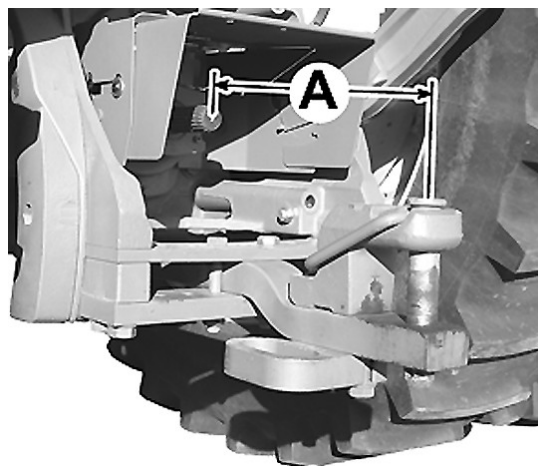
This feed mixer is equipped with a 1000 RPM driveline. Match tractor PTO with the feed mixer driveline.

**IMPORTANT:** To prevent driveline damage, adjust tractor drawbar to recommended setting. Disengage tractor PTO before turning.

Remove clevis if equipped. Turn offset drawbar down.

Adjust drawbar length:

PTO SPEED	DIMENSION (A)
1000 RPM	16 inches (406 mm)



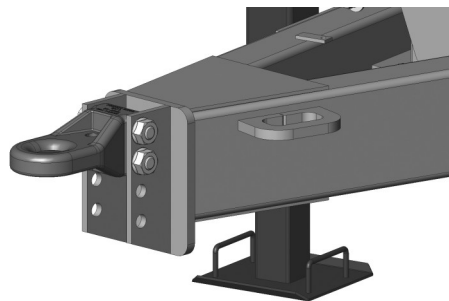
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### ADJUST TRAILER HITCH CLEVIS

Mixer should be approximately level when attached to tractor.

Adjust clevis by changing hole location on tongue.

Hitch Pin Size — 1" x 7"



## LOADING INSTRUCTIONS & PRECAUTIONS

- A. Visually inspect mixer before each load.
- B. Do not overload the mixer. Mixer capacity is determined by weight. See specification page for maximum weight. An overloaded mixer will not mix correctly, and will pull harder, which could damage your tractor.
- C. Load hay first with machine running: **TRACTOR ABOVE 1000 RPM**
  - 1. First gear if you are using very tender, very fine stemmed hay that breaks apart very easily. First gear allows maximum staple length.
  - 2. Second gear if your using fine stemmed hay. Staple length when using second gear will be longer than third, but shorter than first.
  - 3. Third gear if you are using normal good quality hay. This is the most common loading gear, for most conditions.
  - 4. Forth gear only with very rough, course hay that needs to be cut shorter to increase palatability.

**NOTE:** Gear selection can be determined by varying tractor throttle.

Adjust restrictor plates (dogs) to fine tune length of cut. Always start with one dog, preferably the rear, engaged one hole and increase until length of cut is correct.

**NOTE:** engaging dogs and excessive amount will cause mix quality to deteriorate.



- D. Add balance of grain and/or commodities, keeping more fragile ingredients toward the end of the loading sequence as possible. For best results, add concentrates or other dry ingredients of small quantity as close to the middle of the loading sequence as possible.
- E. Load silage, green chop and/or other high moisture products.
- F. Load molasses, animal fat, and/or other liquid supplements last.
- G. Allow mixer three to four minutes to complete mixing after last ingredient is added. (**NOTE:** this time will vary, and could be longer under certain conditions.)
- H. View mixing operation only from observation platform of mixer. Never allow more than two people on platform at one time.
- I. For best results, off load mixed feed at as high a **RPM** as possible, and with the door as open as possible. The first half of load may be fed off in either third or fourth gear, according to conditions, but the last half must fed off at high RPM, to ensure even feed flow and clean out.

### HAY PREPARATION:

SMALL BALES (60 to 150 lbs., 2 or 3 wire), LARGE SQUARE BALES (3' x 4' x 8' or 4' x 4' x 8') and ROUND BALES.

Remove all twine, wire and/or wrapping and load bale in mixer.

## 1105A-1305A-1505A TRANSMISSION SERVICE & OPERATION

### ALLISON 643 & 644 AUTOMATIC TRANSMISSION:

Oil and internal filter should be changed every 1000 hours or 12 months of operation, whichever comes first. External spin on filter should be changed every 500 hours. Fill transmission with approximately 7 gal. of Transmission Fluid.

#### Recommended oil for ambient temperatures:

60° F to 110° F ..... 30 WT C-4 Spec.

-10° F to 60° F ..... Dextron II Transmission Fluid

#### Check transmission oil level weekly with transmission running and tractor engine at

**1000 RPM:** Cold: Oil level to be 1/4" above ADD.

Warm: (160° To 180°) Oil level to be 1/4" above FULL.

**NOTE:** Transmission temperature is not to exceed 280° F. Consult dealer or manufacturer if temperature exceeds 280° F.

Never idle engine lower than 1000 RPM with transmission engaged and loaded. This will result in rapid heat build up in the transmission system. **NOTE:** Transmission output shaft must always be rotating with PTO engaged.

### TRANSMISSION OPERATION:

The ALLISON 643 & 644 is a 4 speed automatic transmission with the reverse blocked. The transmission will start in first gear and up shift as engine speed increases. If engine speed decreases, transmission will down shift accordingly.

Transmission can be locked out of 4th gear with T-Cable Control pulled out. This will prevent erratic down shift and up shift between 3rd and 4th gears for marginal H.P. tractors. This will also help prevent over cutting of hay and mixing of rations.

It is advisable to push the T-Cable in to allow the transmission to shift into 4th gear before discharging to ensure more even discharge flow and clean out.

The ALLISON 643 & 644 are equipped with a torque converter lock up. Lock up will occur in third gear and stay in lock up mode in third and fourth gears. The torque converter lock up prevents slippage in the converter thus eliminating excess heat in the transmission.

The automatic transmission used is a rebuilt ALLISON 643 & 644 with a modified shift point and a rebuilt torque converter. The ALLISON 643 & 644 transmission carries a 2 year standard warranty through Roto-Mix.

## LUBRICATION CHART

**DISENGAGE PTO & SHUT OFF POWER BEFORE LUBRICATING THE MACHINE.**

**LOOSE OR FLOPPY CLOTHING SHOULD NOT BE WORN BY THE OPERATOR.**

**PTO SHAFTS & U-JOINTS:** Grease every 10 to 20 hours.

**AUGER GEARBOXES:** After the first 100 hours of operation, drain initial oil, preferably when box is warm. Flush out the gear case with an approved non-flammable, non toxic solvent and refill with oil. Thereafter oil should be changed every 2000 hours or 12 months, whichever comes first. If machine usage is severe or more than 10 loads per day, it is advisable to change the oil every 1000 hours or 6 months. Inspect and wash oil reservoir breather cap as needed. Air dry before reinstalling. Fill each gearbox with approximately 5 1/2 gallon of **(Synthetic Gear Lube 75W-90)**.

**PROCEDURE FOR FILLING AUGER GEARBOX:** Remove pressure side oil line from circulation pump and attach to oil supply pump. Pressure oil in gear box until oil starts to show in bottom of sight gauge on oil reservoir. Reconnect oil line to circulation pump. Fill reservoir to center of sight gauge, run unit and add oil up to center of sight gauge if needed. Check daily, oil level must always be visible in sight gauge. **Note: Do not fill gearbox through oil reservoir.**

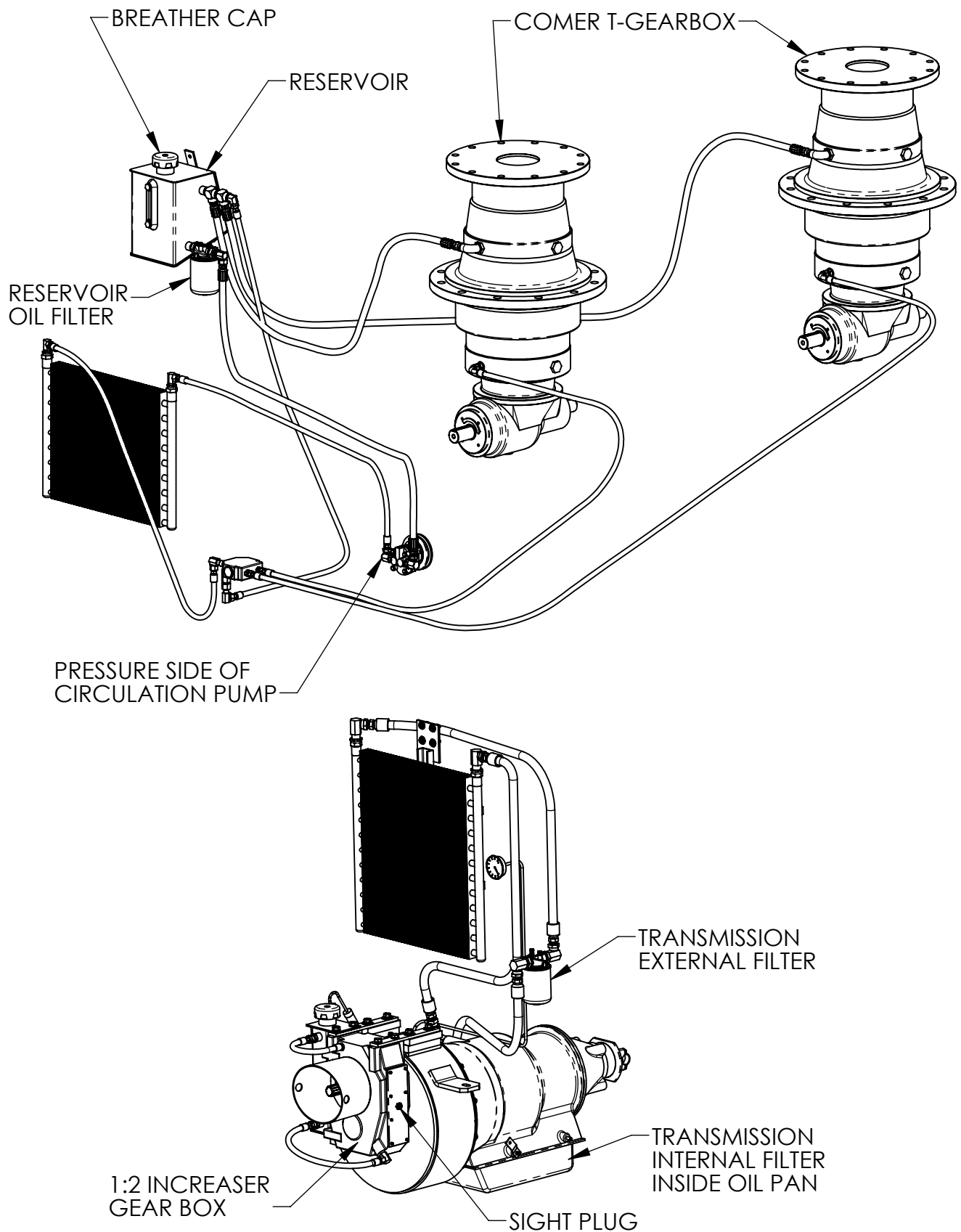
**OIL FILTER SERVICE:** All filters should be changed the first 24 hours after start up of the system, and there after during normal maintenance every 500 hours of service. 10 micron filter elements are recommended. All reservoirs should be checked daily for proper fluid level. Visually check daily for any fluid leakage.

**1:2 INCREASER GEARBOX:** After the first 100 hours of operation, drain initial oil, preferably when box is warm. Flush out the gear case with an approved nonflammable, non toxic solvent and refill with oil. Thereafter oil should be changed every 2000 hours or 12 months, whichever comes first. Fill the gear box to sight plug with approximately 7 pints of, **NOTE: (Synthetic Gear Lube 75W-90).**

**GEARBOX TEMPERATURES:** During normal running conditions, the temperature of the outer casing of the gearbox should not exceed 175°F (80°C).

**RECOMMENDATION:** It is advisable to check the oil level of gearboxes at least once a month. If more than 10% of the total oil capacity has to be added, check for oil leaks.

# 1105A - 1355A OIL CHANGE DIAGRAM



## LUBRICATION CHART

**⚠ WARNING** ALWAYS DISCONNECT OR DISENGAGE POWER TAKE OFF AND REMOVE KEYS FROM TRACTOR BEFORE ADJUSTING, LUBRICATION OR SERVICING THIS MACHINE. FAILURE TO HEED MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

ITEM	LUBRICATION	INTERVAL
Conveyor Chain	Light Weight Oil	Brush or spray on lightly every 40 hours of operation.
Conveyor Bearings	Good Quality Grease	One pump every 8 hours of operation.
PTO (Slip Shaft)	Good Quality Grease	Every 8 hours IMPORTANT: At each lubrication make sure the slip shaft slides in and out freely, failure of the shaft to slide freely will result in drive train damage.
Wheel Bearings	90w Gear Lube	Inspect daily for leaks.
U-Joint	Good Quality Grease	Every 8 hours
CV-Joint	Good Quality Grease	Every 8 hours
Auger T Gearbox's	Synthetic Gear Lube 75W-90	After the first 100 hours of operation. Thereafter oil should be changed every 2000 hours or 12 months, whichever comes first. With severe usage every 1000 hours or 6 months.
Speed Increaser Gearbox	Synthetic Gear Lube 75W-90	After the first 500 hours of operation, then 2000 hours or every 12 months, whichever comes first.
Reservoir Oil Filters		24 hours after start up of the system. Thereafter normal maintenance every 500 hours of service.
Automatic Transmission Oil and Internal Filter	Recommended oil for ambient temperatures of: 0° F to 110°F 30 WT C-4 Spec.  -10°F to 60°F Dextron II Transmission Fluid	Every 1000 hours or 12 months of operation, whichever comes first. Approximate capacity is 7 gal.
External Transmission Filter	Lube filter gasket when changing filter	Every 500 hours.

## TROUBLE SHOOTING

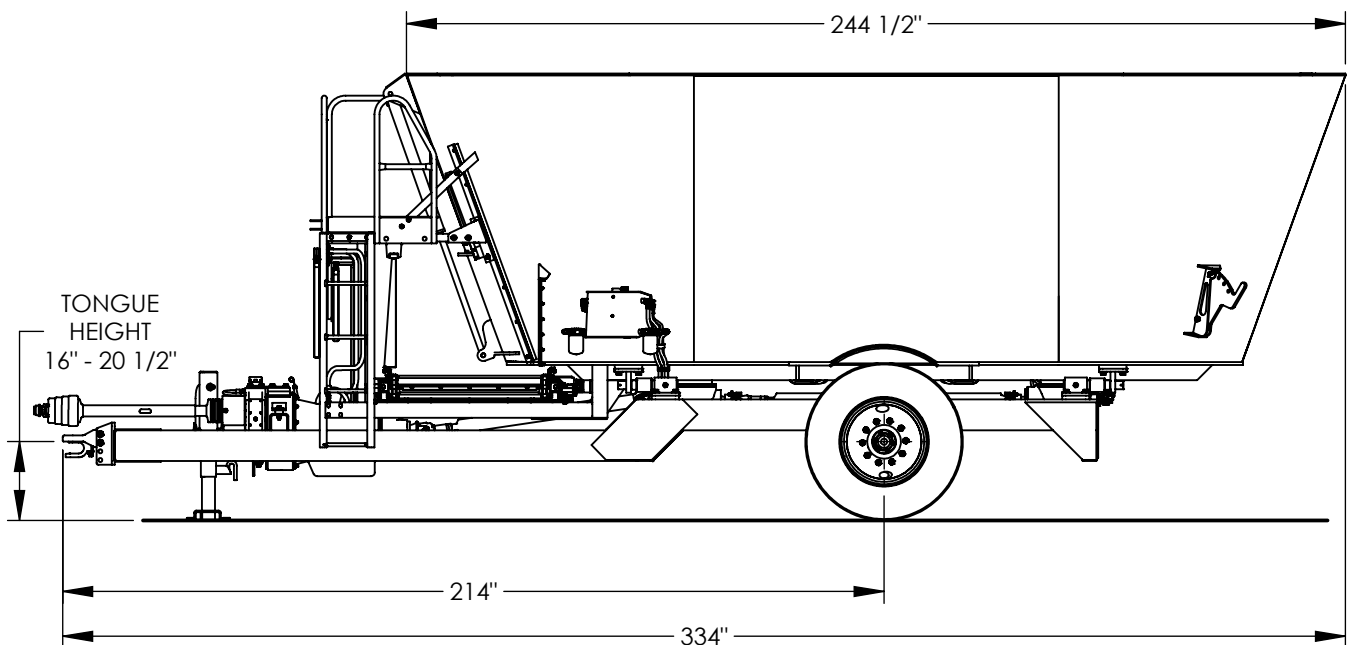
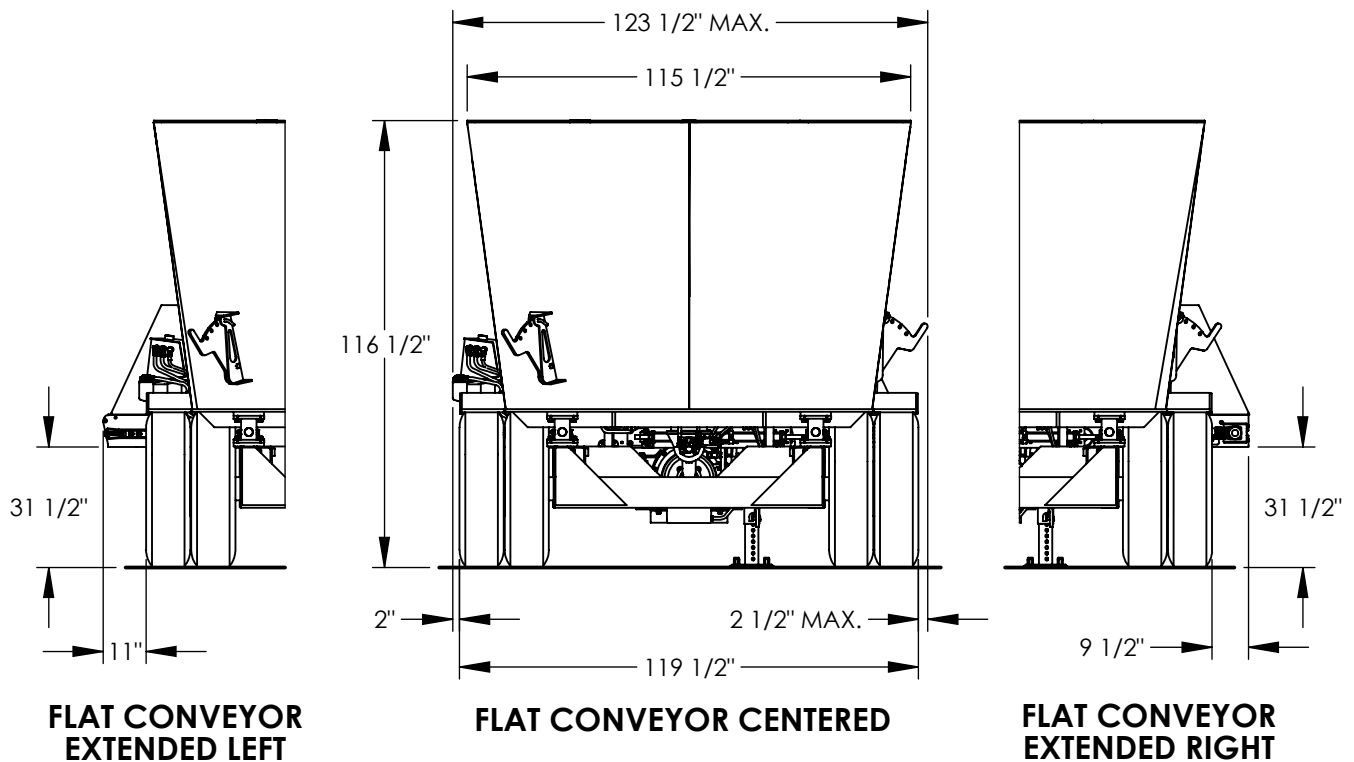
**⚠ WARNING** ALWAYS DISCONNECT OR DISENGAGE POWER TAKE OFF AND REMOVE KEYS FROM TRACTOR BEFORE CLEANING, ADJUSTING, LUBRICATING OR SERVICING THIS MACHINE. FAILURE TO FOLLOW THIS RECOMMENDATION MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH.

**NOTE:** THIS CHART DOES NOT COVER ALL PROBLEMS. CONTACT YOUR DEALERSHIP FOR FURTHER ASSISTANCE.

PROBLEM	POSSIBLE CAUSE	POSSIBLE REMEDY
Machine Vibration	Universal Joints Are Out Of Alignment.	Check And Realign.
	Worn Out Bearing.	Replace Bearing.
Excessive Bearing Failure	Improper Lubrication	Refer To Lubrication Chart.
	Contamination	Check Seal
	Excessive Loads.	Refer To General Information About Machine Loading.
Mixing quality poor, not thorough.	Batch has high concentration of light weight ingredients and rotates too fast inside tub for thorough mixing.	Extend restrictor plates (dogs) further into tub as instructed under loading instructions and precautions.
	High concentration of long hay, not being torn apart.	Extend restrictor plates (dogs) further into tub as instructed under loading instructions and precautions.
Hay being added to batch, but not being incorporated into mixture.	Hay not getting shredded by mixing action, batch rotating inside tub too fast.	Extend restrictor plates (dogs) further into tub as instructed under loading instructions and precautions.
Too much power being consumed to mix.	Restrictor plates extend too far into tub and retarding rotation of batch.	Move restrictor plates (dogs) away from tub as instructed under loading instructions and precautions.

# 1105A TRAILER DIMENSIONS FRONT CENTER DISCHARGE - 42" WIDE CONVEYOR

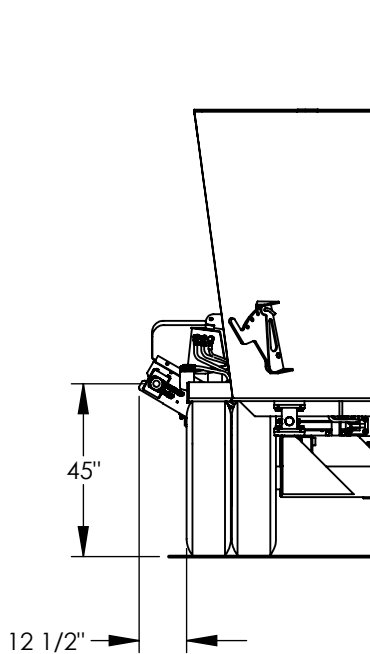
HEIGHT DIMENSIONS BASED ON A 42" O.D. TIRE 11R x 22.5"



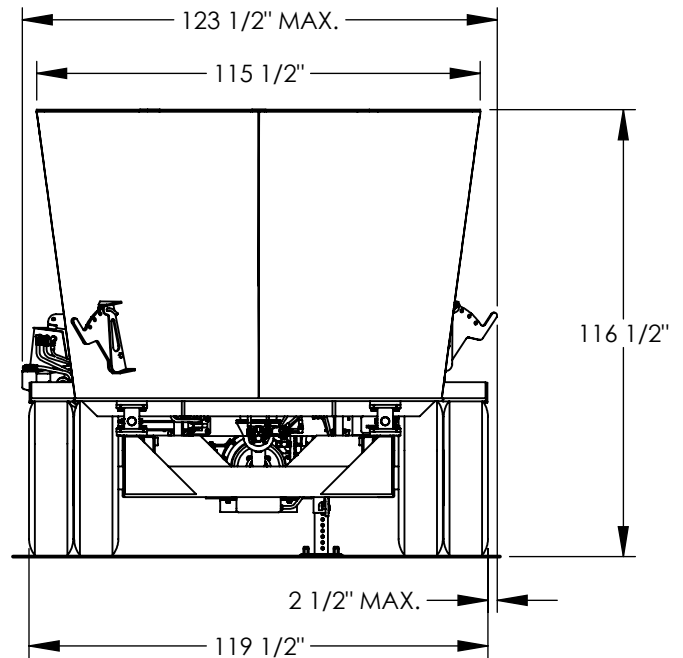
All Dimensions & Specifications are Approximate and Subject to Change Without Notice.

# 1105A TRAILER DIMENSIONS FRONT CENTER DISCHARGE - 42" WIDE CONVEYOR

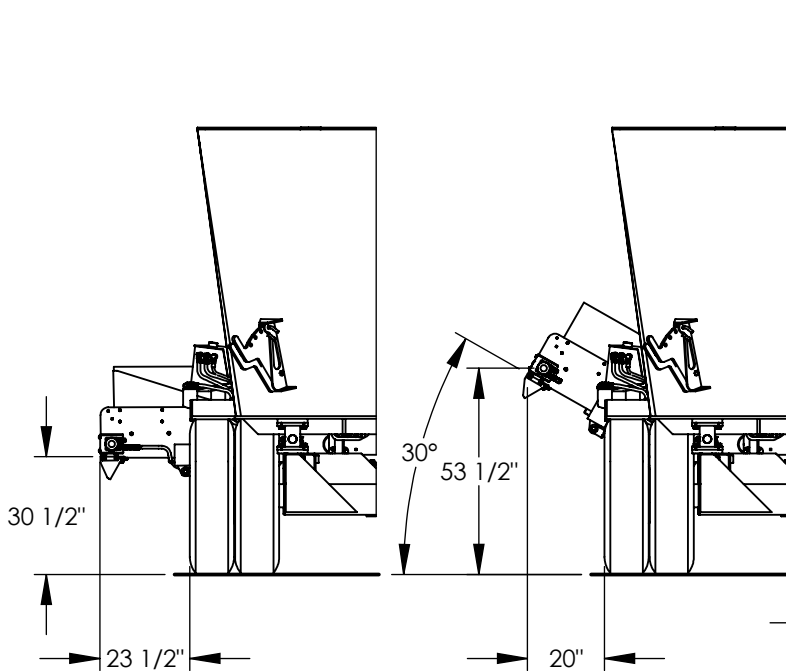
HEIGHT DIMENSIONS BASED ON A 42" O.D. TIRE 11R x 22.5"



**INCLINE CONVEYOR EXTENDED**

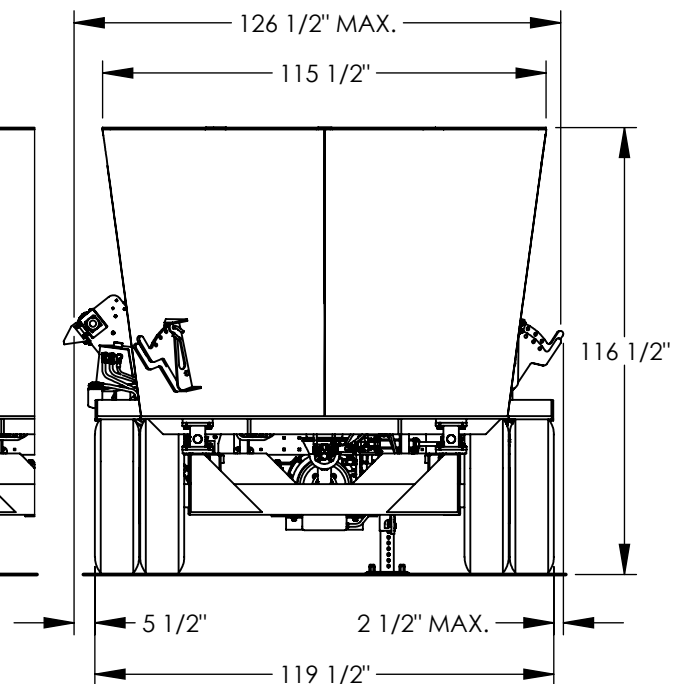


**INCLINE CONVEYOR RETRACTED**



**ADJUSTABLE CONVEYOR  
EXTENDED FLAT**

**ADJUSTABLE CONVEYOR  
EXTENDED @ 30° INCLINE**

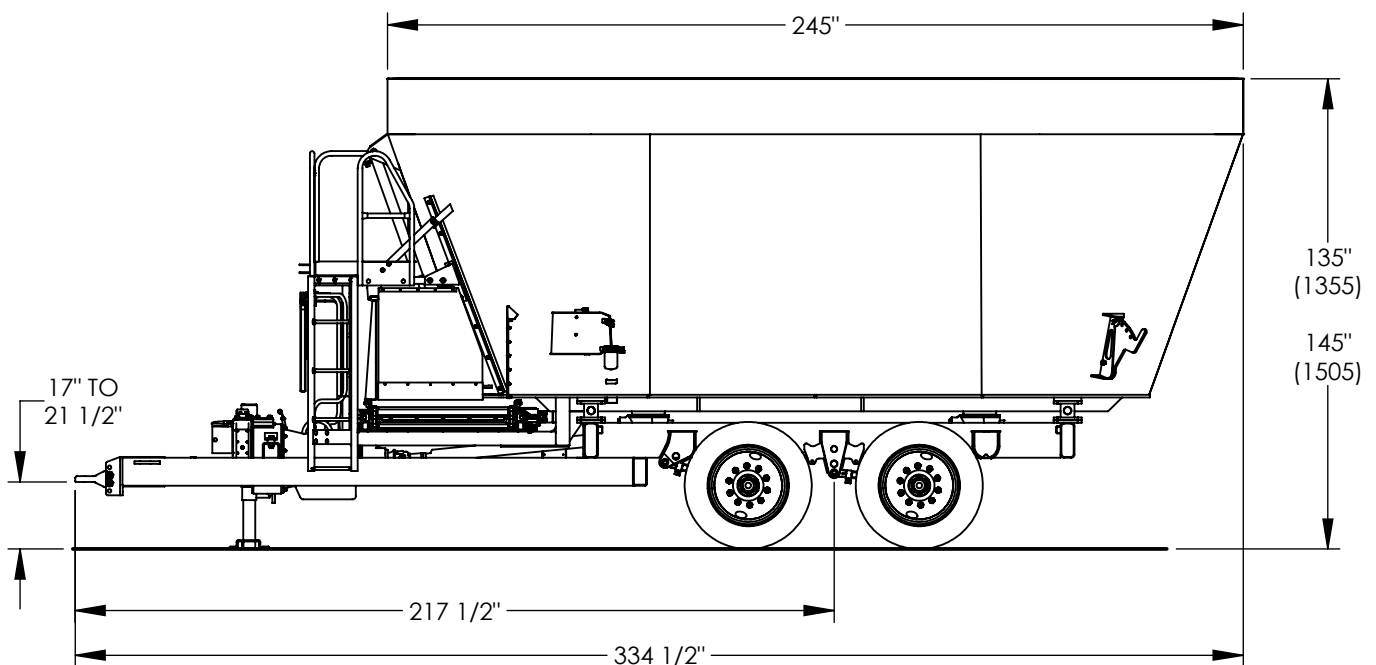
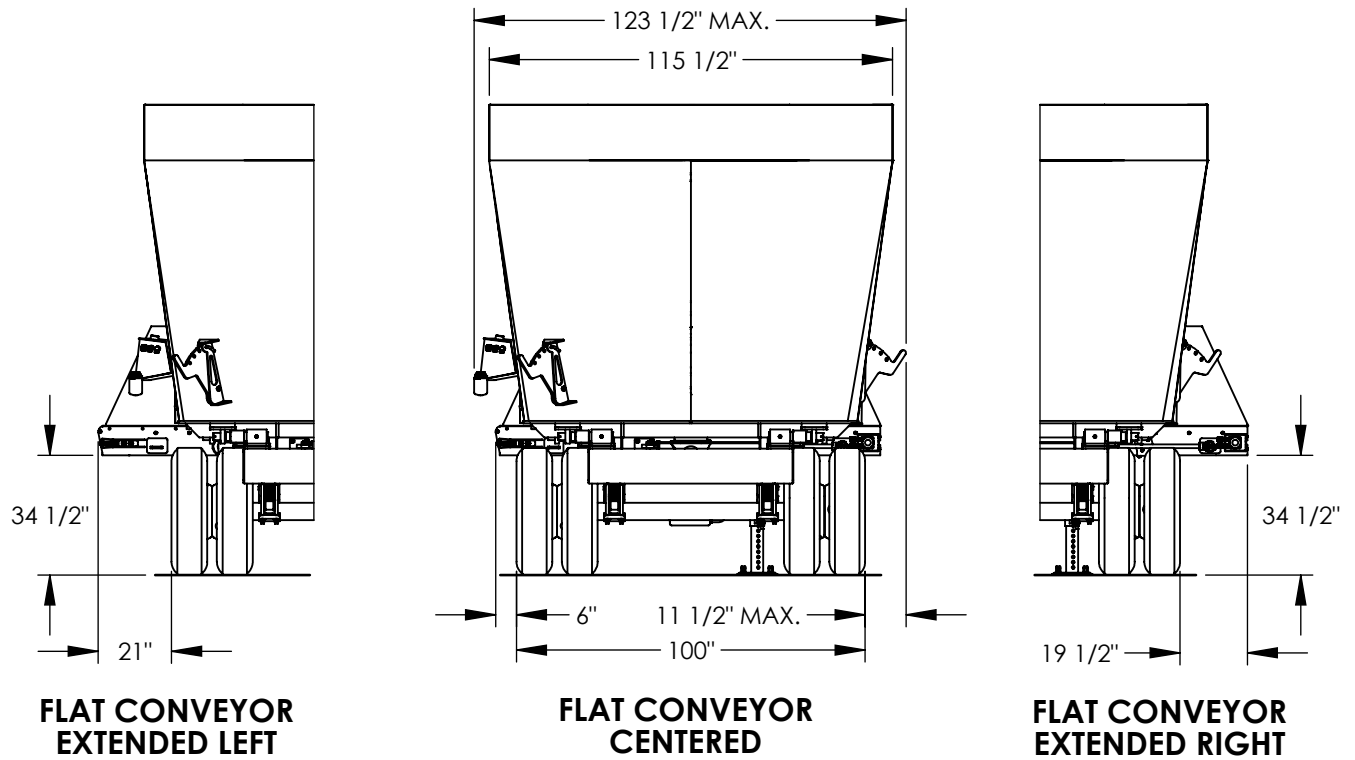


**ADJUSTABLE CONVEYOR  
RETRACTED**

All Dimensions & Specifications are Approximate and Subject to Change Without Notice.

# 1355A-1505A TRAILER DIMENSIONS FRONT CENTER DISCHARGE - 42" WIDE CONVEYOR

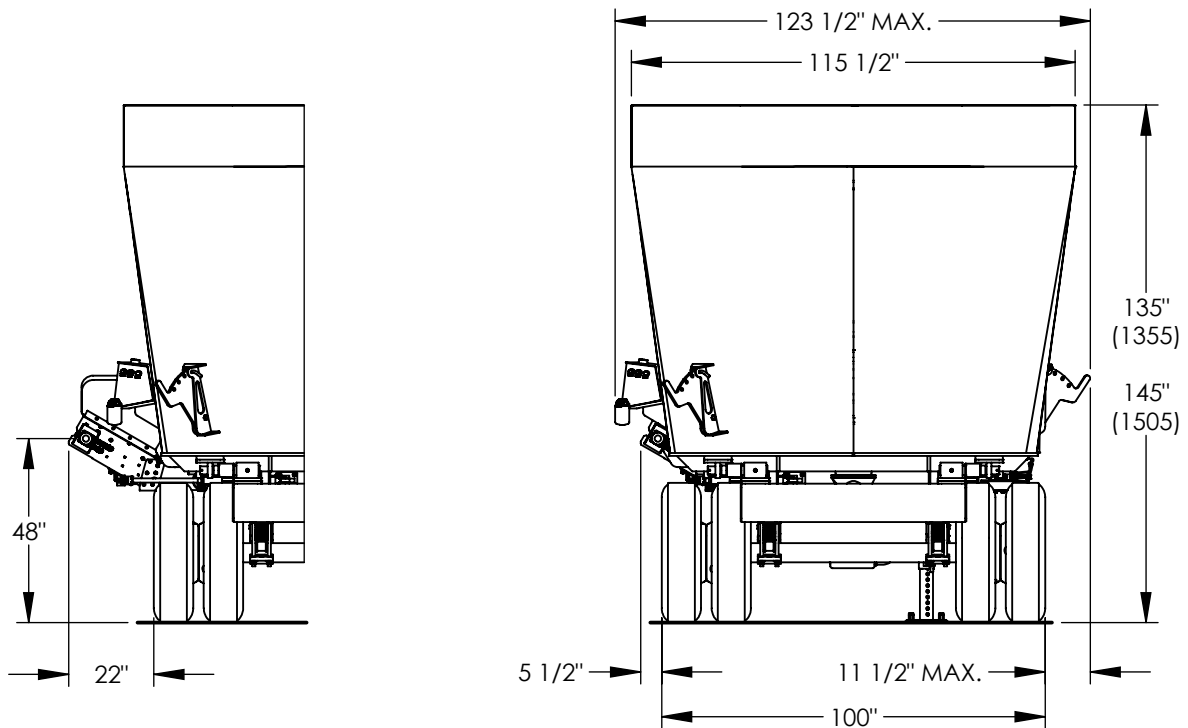
HEIGHT DIMENSIONS BASED ON A 36.5" O.D. TIRE 255/R70 x 22.5"



All Dimensions & Specifications are Approximate and Subject to Change Without Notice.

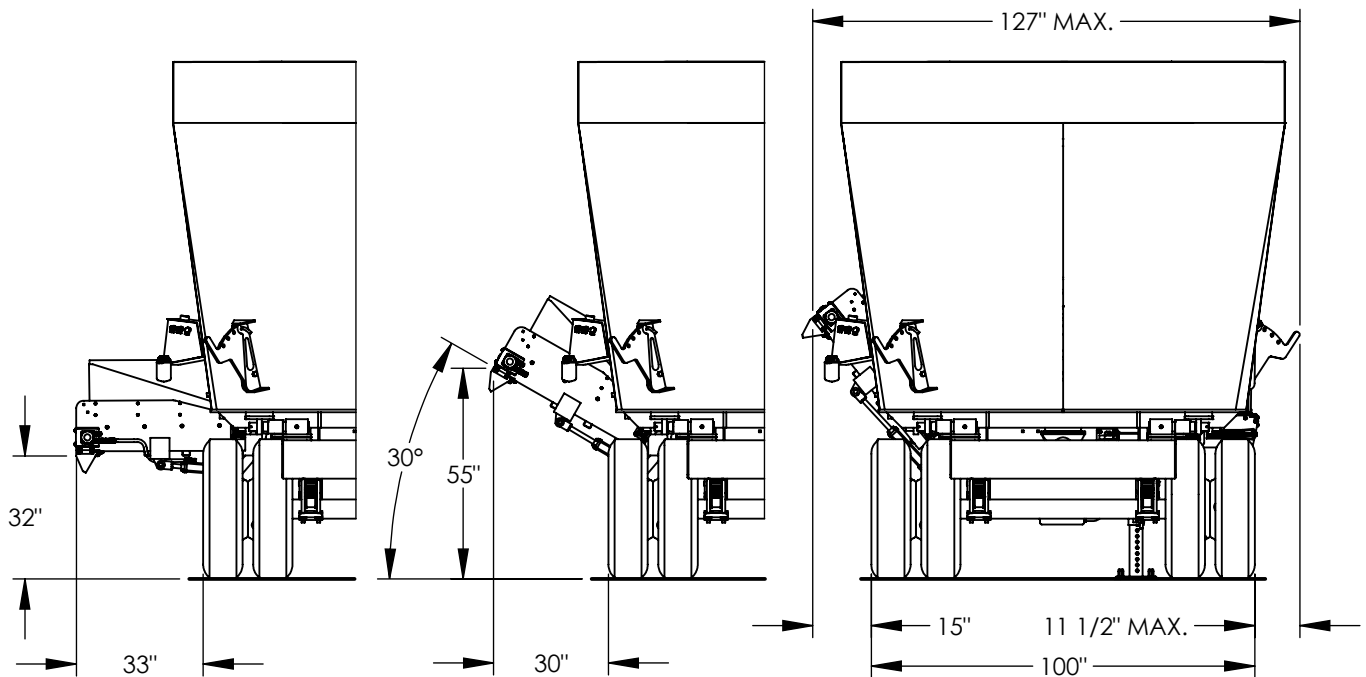
# 1355A-1505A TRAILER DIMENSIONS FRONT CENTER DISCHARGE - 42" WIDE CONVEYOR

HEIGHT DIMENSIONS BASED ON A 36.5" O.D. TIRE 255/R70 x 22.5"



**INCLINE CONVEYOR  
EXTENDED**

**INCLINE CONVEYOR  
RETRACTED**



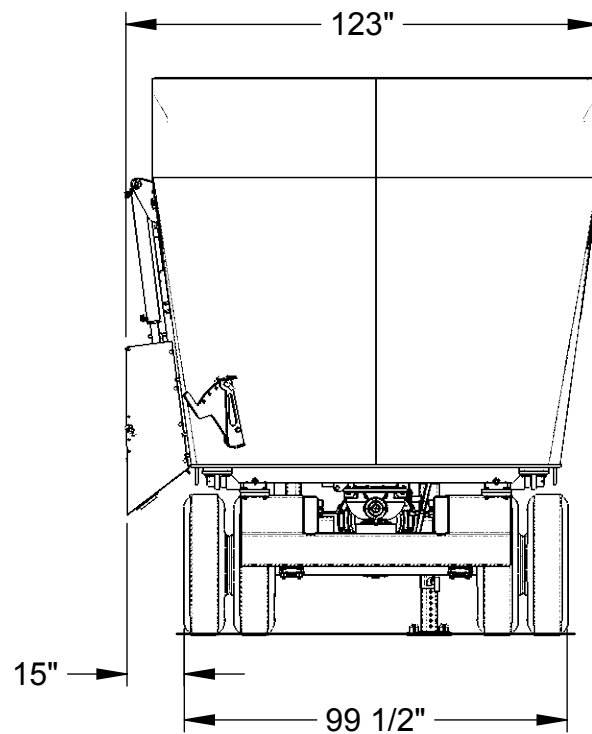
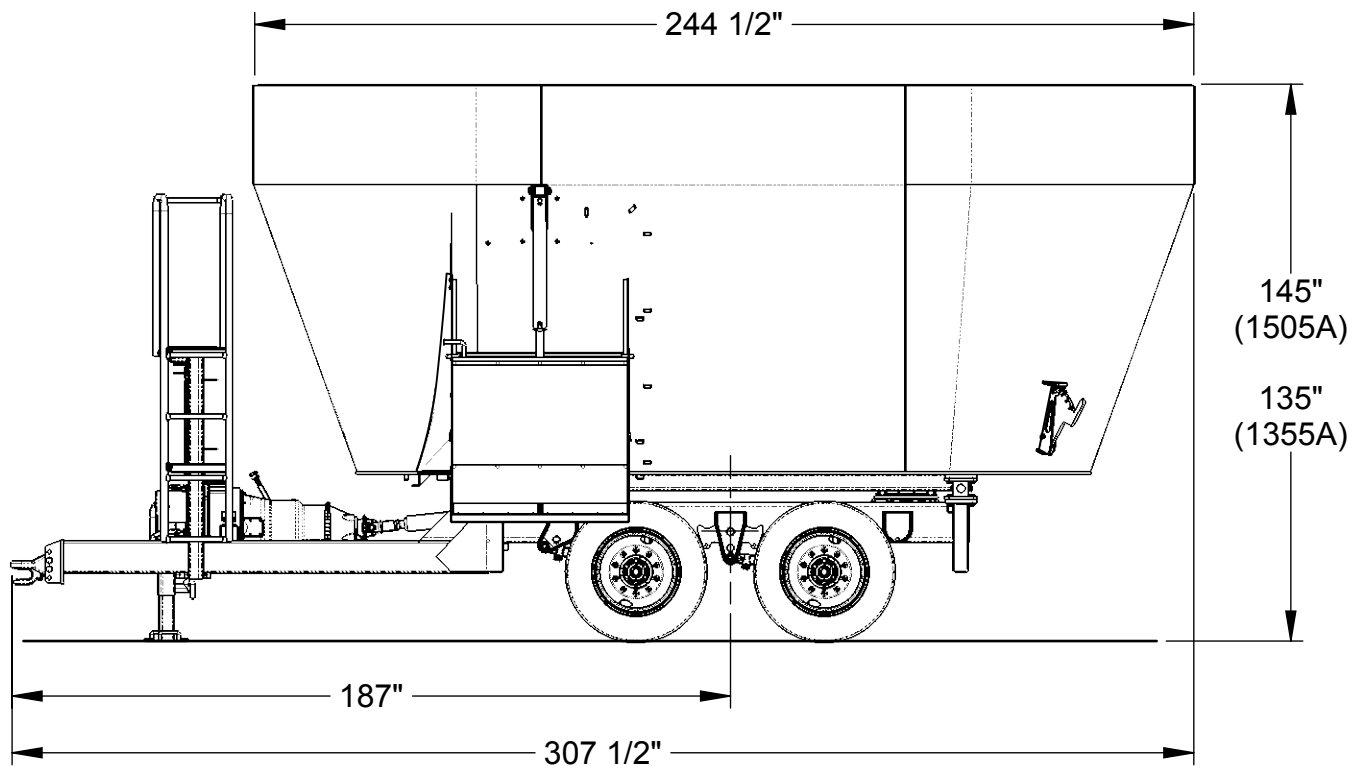
**ADJUSTABLE CONVEYOR  
EXTENDED FLAT**

**ADJUSTABLE CONVEYOR  
EXTENDED @ 30° INCLINE**

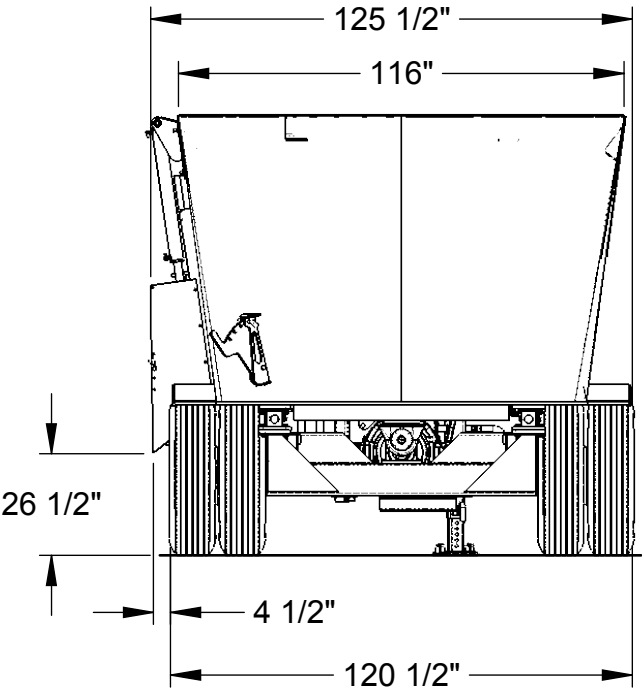
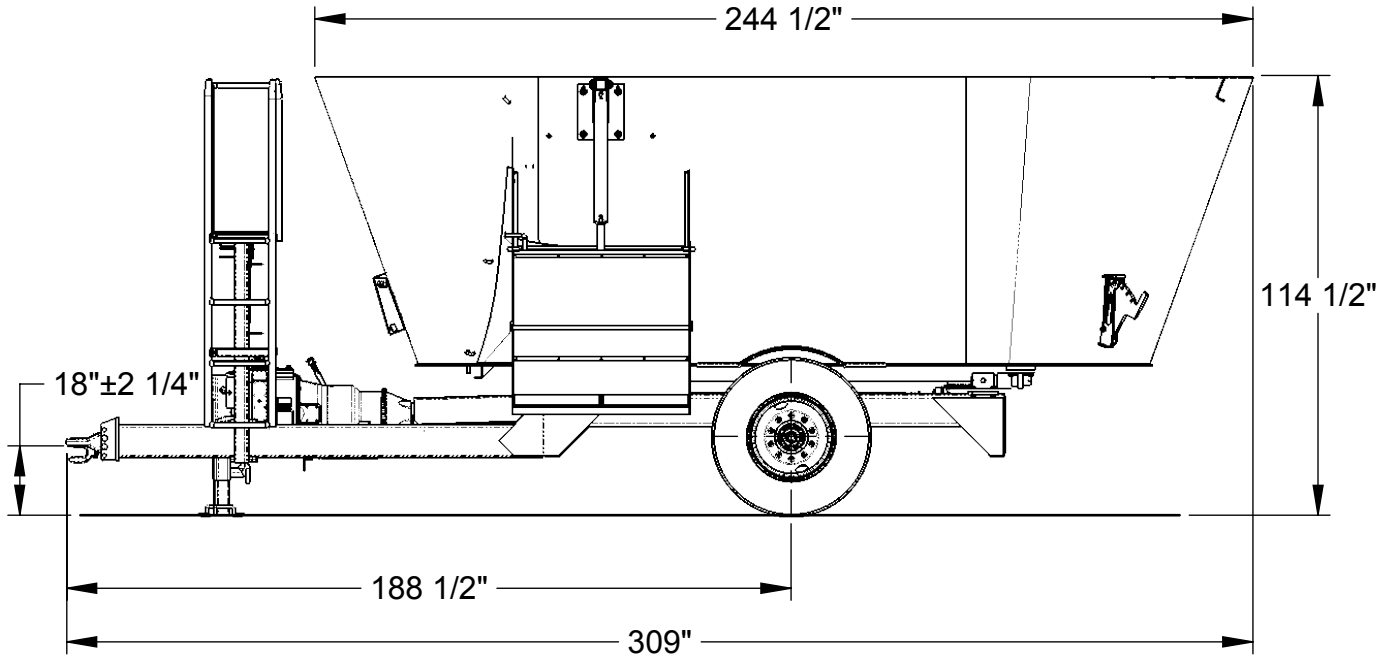
**ADJUSTABLE CONVEYOR  
RETRACTED**

All Dimensions & Specifications are Approximate and Subject to Change Without Notice.

# 1355A - 1505A SIDE DISCHARGE DIMENSIONS



# 1105A TRAILER DIMENSIONS SIDE DISCHARGE



## 1105A-1355A-1505A VERTICAL MIXER FEATURES & SPECIFICATIONS

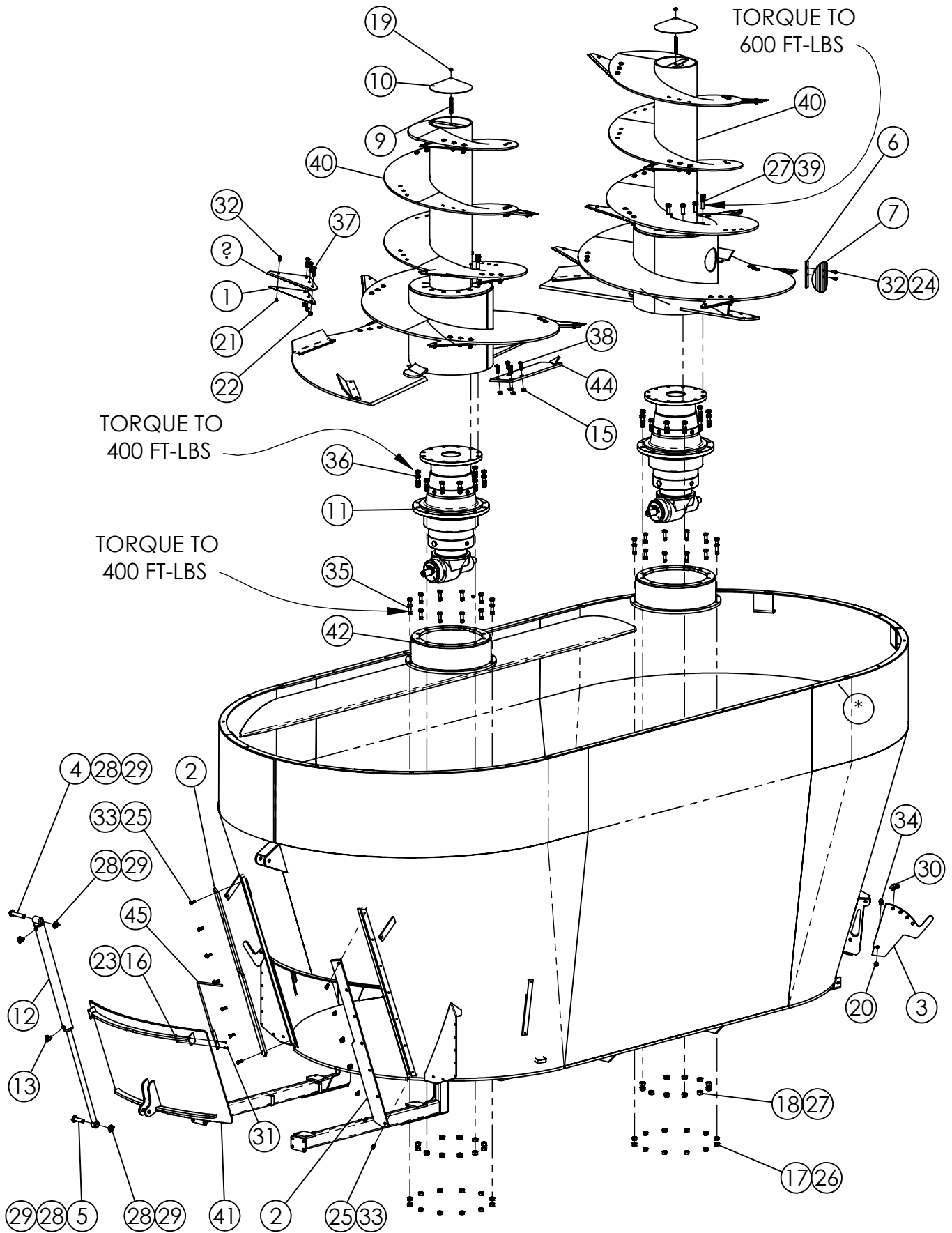
MODEL DESCRIPTION	1105A Trailer	1355A-1505A Trailer
Maximum Load with Hay Ration	19,800 LB.	24,300 LB.
Maximum Load with Heavy Ration	27,500 LB.	33,750 LB.
Empty Weight, Approximate	17,100 LB.	20,600 LB.
Mixing Capacity cu. ft.	900 CU. FT.	(1355) 1,150 CU. FT. (1505) 1,300 CU. FT.
Additional Weight, 8" End-Cap Extensions	150 LB.	150 LB.
Recommended PTO Horsepower	180	(1355) - 200HP (1505) - 220HP
Mixing Capacity in Cubic Feet	900CF	(1355)-1,150CF (1505)-1,300CF
Tire Size	211R x 22.5, 42"OD	255/R70 x 22.5, 34"OD
HUB, LB.	10 BOLT, 20,000 LB.	10 BOLT, 20,000 LB.
Discharge Magnets	Optional	Optional
Screw Speeds	Variable 12 - 38 RPM @ 1,000 PTO RPM	Variable 12 - 38 RPM @ 1,000 PTO RPM
PTO Speed	1,000	1,000
Conveyor Width	42"	42"
Transmission Speeds	4	4
Transmission Make	Allison	Allison

**All Dimensions & Specifications are Approximate and Subject to Change Without Notice.**

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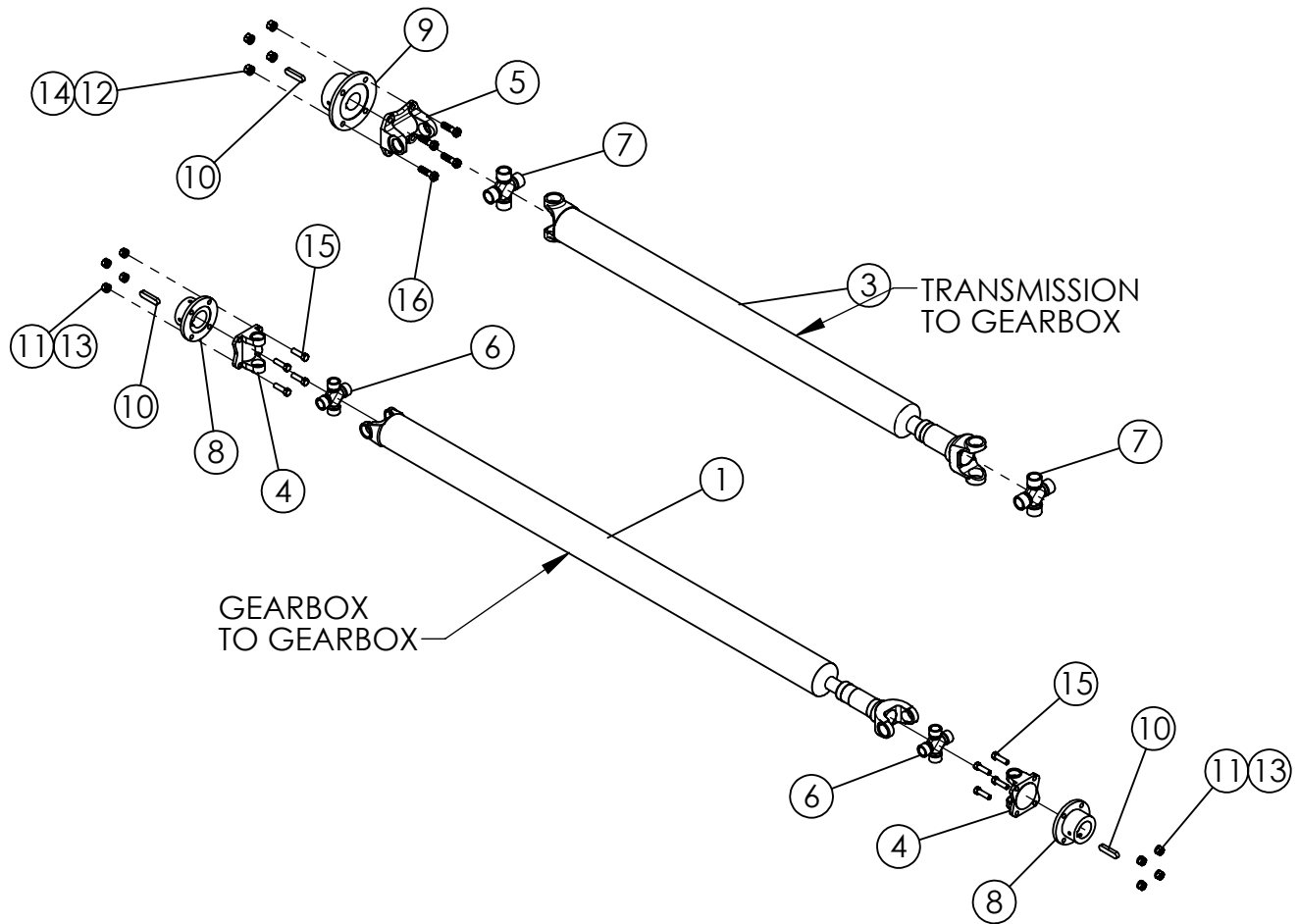
# 1105A-1355A-1505A MIXER ASSEMBLY



# 1105A-1355A-1505A MIXER ASSEMBLY

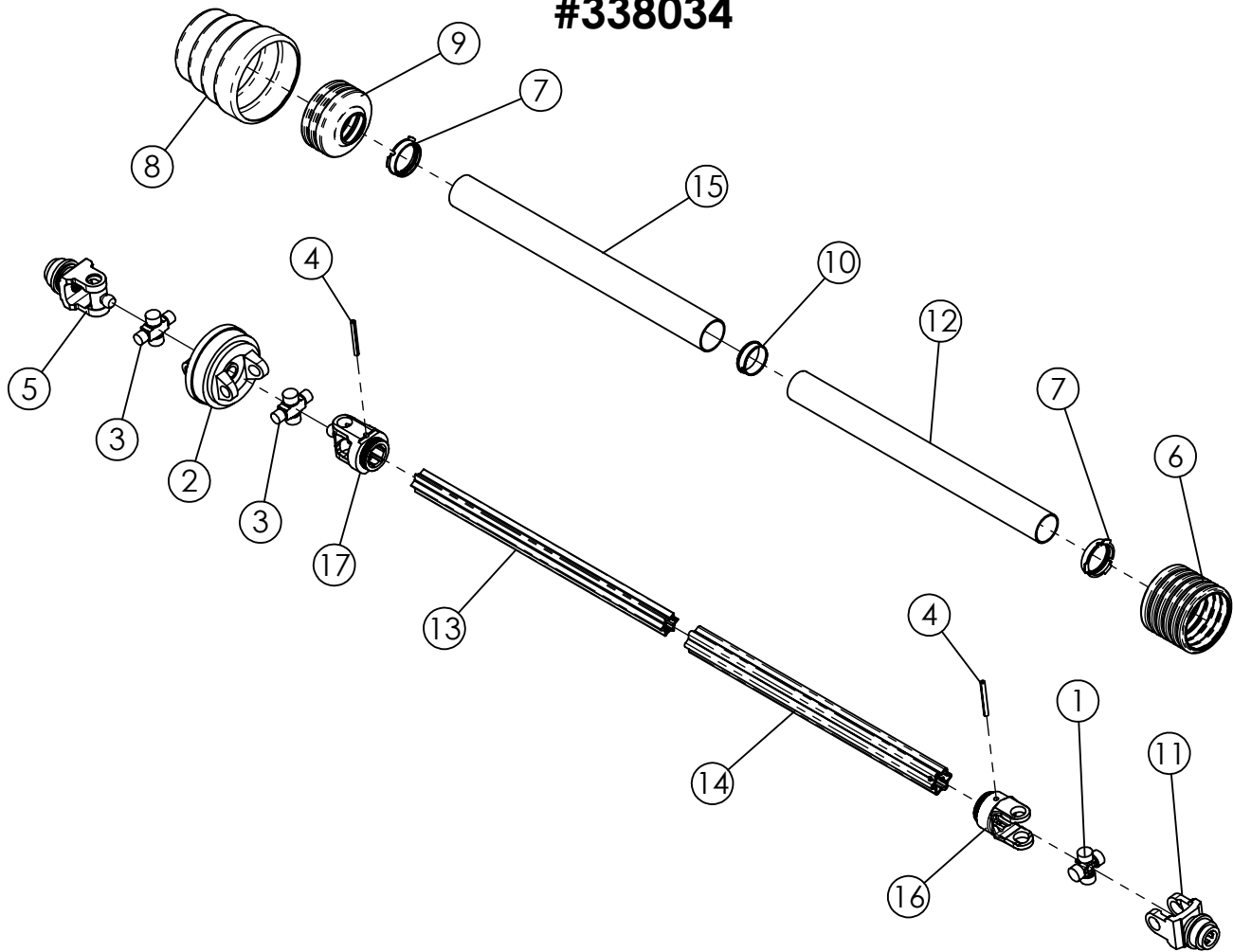
ITEM #	PART #	DESCRIPTION	QTY.
1	160076	KNIFE BACKUP PLATE - LEFT HAND	18
2	160115	DOOR GUIDE BAR	2
3	160118	VERTICAL KNIFE	1
4	160619	CYLINDER PIN 5 7/8"	1
5	160620	CYLINDER PIN 1" x 4 1/4"	1
6	161290	AUGER COVER BOLT BAR 3/8 x 1 x 8	2
7	161298	AUGER ACCESS COVER - 7" OD	2
8	162124	LEADING EDGE PLATE 12-7/8" LONG	1
9	162399	ALL THREAD 5/8 x 5-1/4"	2
10	162489	AUGER TUBE CAP 12" PIPE 5/8" HOLE	2
11	344151	GEARBOX COMER PGA 3003/52.16/	2
12	364068	HYDRAULIC CYLINDER 2-1/2" x 31-5/8"	1
13	368020	SWIVEL 90° 3/8MP x 3/8FP	2
14	385007	KNIFE BLADE 7 1/2" x 17 1/4"	18
15	400115	FLANGE NUT, 5/8-11 SERRATED	6
16	400204	HEX NUT 1/4"-20 #5 PLTD	2
17	400512	HEX NUT 3/4"-16 #8 PLTD	24
18	400514	HEX NUT 7/8"-14 #8	22
19	400910	HEX CROWN LOCNUT 5/8"-11 #9 PLTD	2
20	400912	HEX CROWN LOCK NUT 3/4"-10 #5 PLTD	1
21	401106	HEX NUT, 3/8"-16 NYLOC #5 PLTD	18
22	401110	HEX NYLOC NUT 5/8"-11 #5 Pltd	54
23	402004	WASHER, SPRING LOCK 1/4" PLTD	2
24	402006	WASHER SPRING LOCK 3/8" MED PLTD	4
25	402008	SPRING LOCK WASHER 1/2" PLTD	14
26	402112	LOCK WASHER, EXTERNAL STAR 3/4"	24
27	402114	EXTERNAL STAR LW 7/8"	46
28	402516	WASHER FLAT, 1" SAE PLTD	4
29	404000	COTTER PIN 1/4" x 1 1/2"	4
30	404209	PIN, 5/8" x 4", RECEIVER HITCH	1
31	405605	HHCS 1/4"-20 x 1 1/4" #5 PLTD	2
32	405654	HHCS 3/8"-16 x 1-1/4" #5 PLTD	22
33	405702	HHCS 1/2"-13 x 1-1/4" #5 PLTD	10
34	405781	HHCS 3/4"-10 x 2-1/2" #5 PLTD	1
35	406781	HHCS 3/4"-16 x 2 1/2" #8 PLTD	24
36	406792	HHCS 7/8"-14 x 3" #8 PLTD	22
37	407122	CHCS 5/8"-11 x 2-1/2" #5 Pltd	54
38	407130	CHCS 5/8"-11 x 2" #8 PLTD	4
39	407823	HHCS M22-1.5 x 60MM GR 10.9	24
40	860445	<b>1355/1505 SINGLE FLIGHTED AUGER W/A (COMER GB)</b>	2
	860468	<b>1105 SINGLE FLIGHTED AUGER W/A (COMER GB)</b>	2
	860326	<b>1355/1505 SINGLE FLIGHTED AUGER W/A (BREVINI GB)</b>	2
	860274	<b>1105 SINGLE FLIGHTED AUGER W/A (BREVINI GB)</b>	2
41	860455	1105 FRONT CENTER DOOR WA	1
42	860474	COMER GEARBOX ADAPTER WA	2
43	860660	1505 FRONT CENTER TUB WA - COMER	1
	860617	1355 FRONT CENTER TUB WA - COMER	1
	860622	1105 FRONT CENTER TUB WA - COMER	1
44	860840	AUGER WING KICKER WA - 1355	1
45	872329	TRAILER STRAIGHT DOOR MARKER WA	1

# 1105A-1355A-1505A GEARBOX DRIVELINES



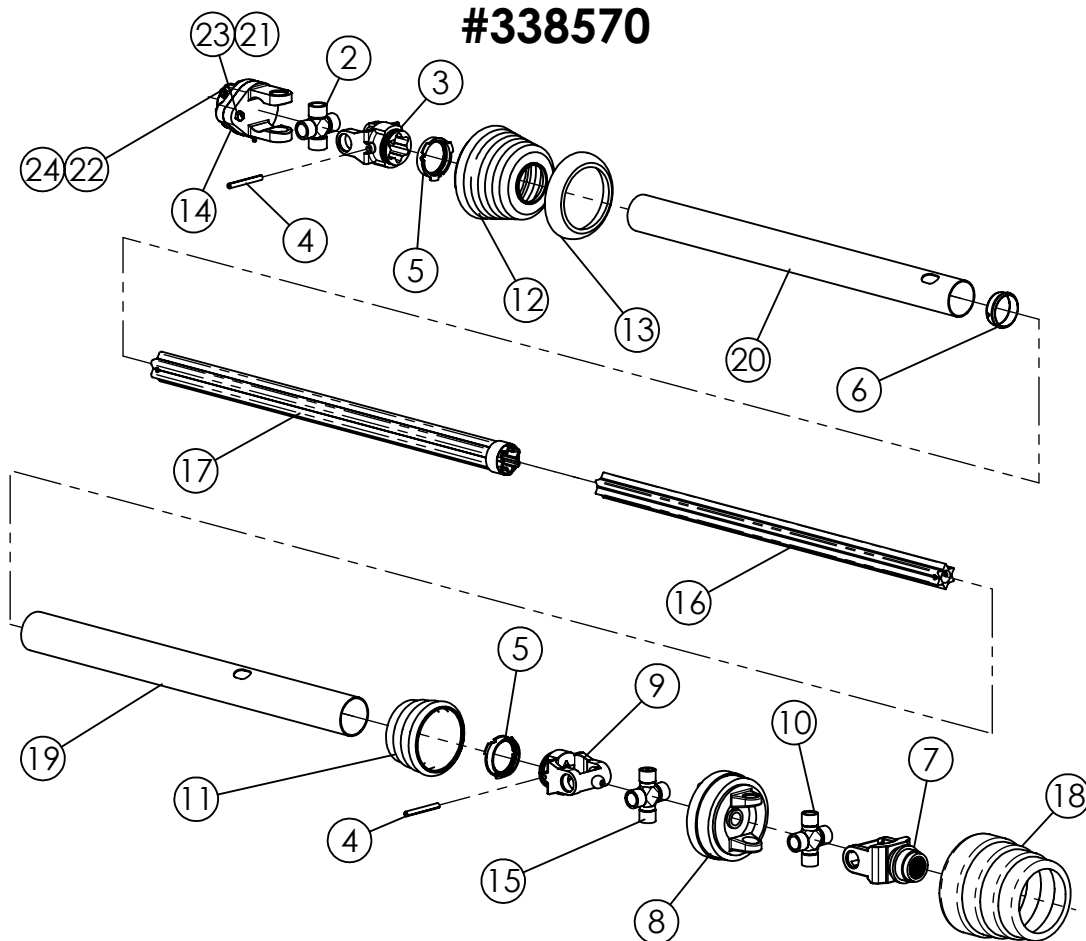
ITEM #	PART #	DESCRIPTION	QTY.
1	338011	DRIVE LINE 1350 70" C-C (After Serial #8001857502)	1
2	338018	DRIVELINE 1350, 67-1/2" C-C, (Before Serial #800487644)	1
3	338015	DRIVELINE 1480 57" C-C, 42" CONVEYOR	1
	338017	DRIVELINE 1480 32-1/2" C-C, 30" CONV (Before Serial #800487644)	1
	338009	DRIVELINE 1480 29-3/4" C-C, 30" CONV (After Serial #8001857502)	1
4	338429	FLANGE YOKE, SPICER 1350	2
5	338434	FLANGE YOKE, 1480 (2")	1
6	338436	CROSS KIT, SPICER 1350 5-178X	2
7	338437	CROSS KIT, SPICER 1480 5-188X	2
8	338592	COMPANION FLANGE 1350 45mm W/KW (After Serial #800187502)	2
	338414	COMPRESSION FLANGE 1350 48mm (Before Serial #800487644)	2
9	338593	COMPANION FLANGE, 1480 45mm W/KW (After Serial #800187502)	1
	338433	COMPRESSION FLANGE 1480 48mm (Before Serial #800487644)	1
10	344156	KEY 14mm x 9mm x 60mm, FEATHER KEY	3
11	400207	HEX NUT # 5 PLTD 7/16"	8
12	400208	HEX NUT 1/2"-13 #5 PLTD	4
13	402007	SPRING LOCK WASHER 7/16" PLTD	8
14	402008	SPRING LOCK WASHER 1/2" PLTD	4
15	405678	HHCS 7/16"-14 x 1 1/2" #5 PLTD	8
16	405704	HHCS 1/2"-13 x 1-3/4" #5 PLTD	4

# 1105A TRACTOR DRIVE SHAFT ASSEMBLY #338034



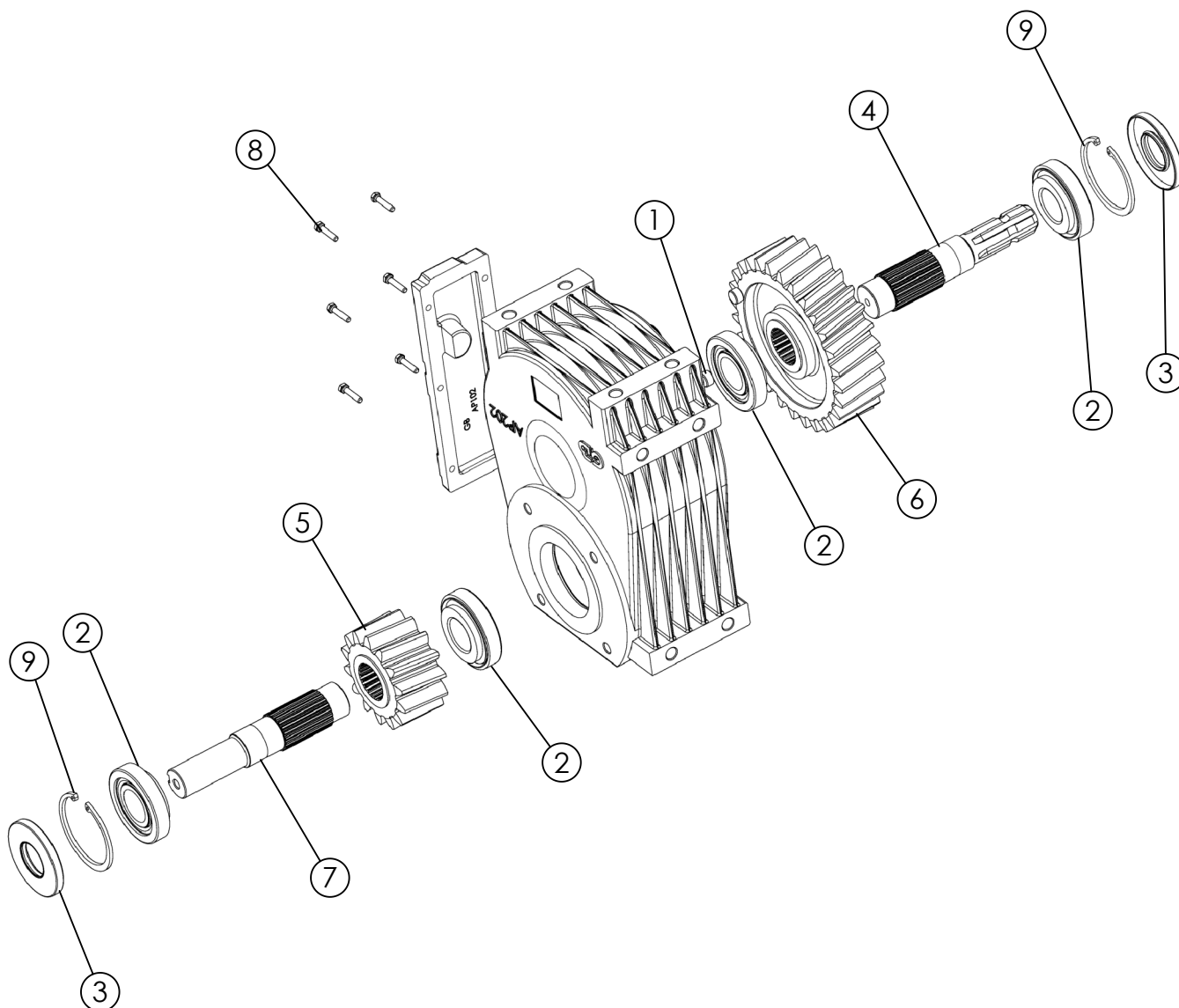
ITEM #	PART #	DESCRIPTION	QTY.
1	338443	CROSS KIT 32mm x 76mm W2400	1
2	338469	DOUBLE YOKE CVC - W-2400 365722	1
3	338470	CROSS & BEARING CVC KIT- W-2400 342221	2
4	338473	ROLL PIN 10mm x 90mm	2
5	338483	Yoke 1-3/8" - 21 SPL. 1000 RPM CVC	1
6	338486	SHIELD CONE 6-RIB W-2400	1
7	338489	BEARING RING	2
8	338501	CV CONE & BEARING ASSEMBLY -W-2400 386164	1
9	338502	OUTER SHIELD TUBE - WWE-2480 338753	1
10	338503	SUPPORT BEARING- 355155	1
11	338507	YOKE 1-3/8"- 6 SPLINE - WWE-2480 380907	1
12	338509	INNER SHIELD TUBE ROUND - WWE-2480 383868	1
13	338542	INNER PROFILE W2500 S4GA 344144	1
14	338543	OUTER PROFILE & SLEEVE WA W2500 388535	1
15	338556	OUTER SHIELD TUBE OVAL - WWE-2480 338753	1
16	338562	YOKE INBOARD S5	1
17	338563	YOKE INBOARD S4	1

# 1355A-1505A TRACTOR DRIVE SHAFT ASSEMBLY #338570



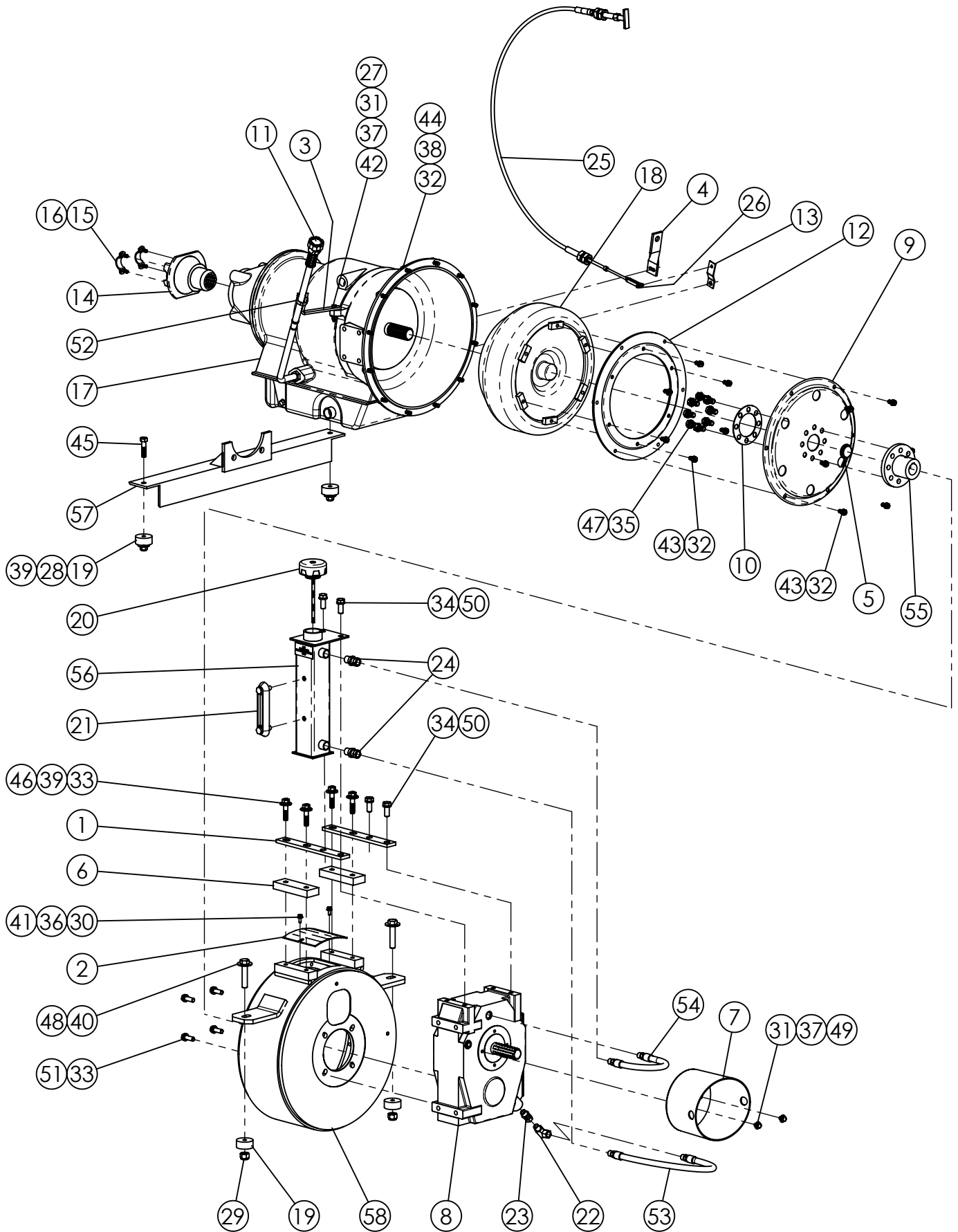
ITEM #	PART #	DESCRIPTION	QTY
2	338446	CROSS KIT W2500	1
3	338454	INBOARD YOKE W2500	1
4	338473	ROLL PIN 10mm x 90mm	2
5	338489	BEARING RING	2
6	338503	SUPPORT BEARING- 355155	1
7	338600	YOKE 1-3/4" - 20 SPL QD W2500 ASG 135316	1
8	338601	DOUBLE YOKE CVC W-2500 365725	1
9	338602	INBOARD YOKE W2500 S5 133993	1
10	338603	CV Cross Kit - W2580 384316	1
11	338610	SHIELD CONE 4 RIB 104786	1
12	338611	SHIELD CONE 7 RIB	1
13	338623	REINFORCING COLLAR 359474	1
14	338627	YOKE 1-3/8"-6 SPL W/CLUTCH W2580 394925	1
15	338631	CV Cross Kit - W2580 395867	1
16	338632	INNER PROFILE W2500 S4GA 346886	1
17	338633	OUTER PROFILE & SLEEVE WA W2500 399212	1
18	338634	CV CONE & BEARING ASSEMBLY -W2500 392061	1
19	338635	OUTER SHIELD TUBE OVL - W-2500 395920	1
20	338636	INNER SHIELD TUBE ROUND - W-2500 389315	1
21	400010	HEX NYLOC NUT M10-1.5, 8.8 PLTD	1
22	400013	HEX NYLOK NUT M12-1.75, 8.8	2
23	407827	HHCS M10-1.5 x 60 GRADE 10.9	1
24	407829	HHCS M12-1.75x65 GRADE 10.9	2

# **GEARBOX, 2:1 INCREASER AP202** **#344004**



REF #	PART #	DESCRIPTION	QTY
1	310802	PLUG, 3/8" PIPE, BLACK	2
2	342229	BEARING 40mm ID x 90MM OD 31308	4
3	344227	SEAL M-10 INPUT 40 x 90 x 8	2
4	344236	SHAFT, INPUT AP2 6T 1-3/8"	1
5	344271	PINION GEAR Z14 M7 R1/2	1
6	344272	CROWN GEAR Z28 M7 R1/2	1
7	344273	SHAFT OUTPUT 35mm KEYED	1
8	407831	HHCS M6-1.0 x 16MM CLS 8.8	6
9	409963	SNAP RING, INTERNAL UNI 7438-D90	2

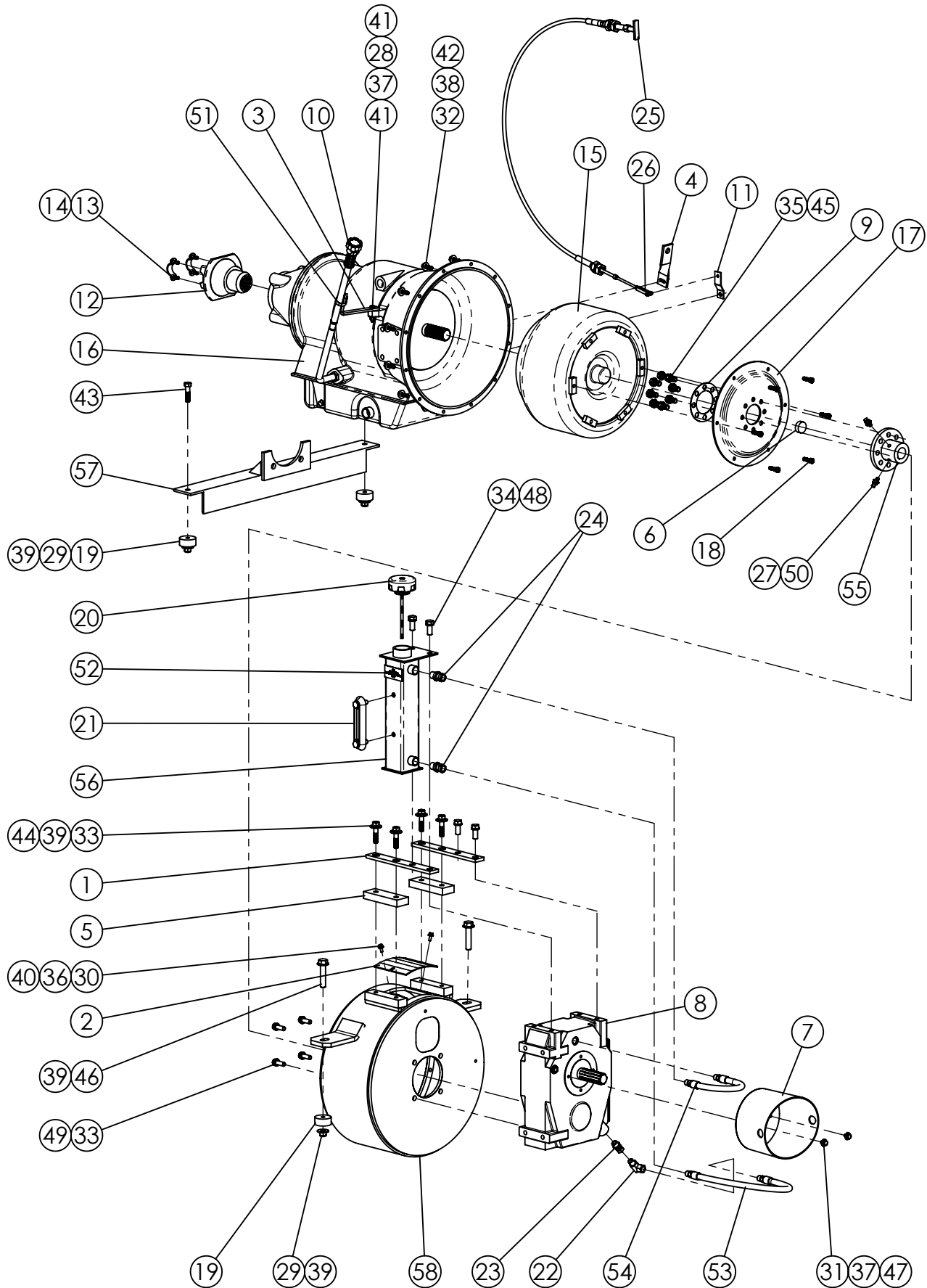
# 1105A TRANSMISSION ASSEMBLY



# 1105A TRANSMISSION ASSEMBLY

ITEM #	PART #	DESCRIPTION	QTY.
1	160261	GEAR BOX BRACKET - 11"	2
2	160264	HOUSING COVER - 5 1/2" x 5 1/2"	1
3	160278	DIPSTICK BRACE- 1/4" x 3/4" x 8"	1
4	160290	SHIFTER CABLE BRACKET	1
5	160989	643 CONVERTER SPACER - 3/4"	1
6	161009	HOUSING SPACER BAR - 5 3/4"	2
7	338485	DRIVE LINE BELL GUARD	1
8	344004	GBOX 1:2 INCREASER 1-3/8-6 x 35mm	1
9	344101	AT 540 FLEX PLATE	1
10	344103	AT 540 SUPPORT RING	1
11	344104	TRANS DIPSTICK	1
12	344108	AT 643 ADAPTOR RING	1
13	344112	SHIFT LEVER - D2T2 - 7A257 -1X	1
14	344113	1480 TRANS. END YOKE STRAP 148	1
15	344114	1480 END YOKE STRAP REBC 148	2
16	344115	1480 STRAP BOLT CS-H5-24-27	4
17	344127	MT 643 REBUILT ALLISON TRANS.	1
18	344129	643 TORQUE CONVERTER	1
19	351990	TRANS. MOUNT GROMMET 2-2133	4
20	362549	TANK BREATHER 8" DIP STICK	1
21	362555	SIGHT GAUGE 5"	1
22	368020	HYD ADAPTER 3/8"MP x 3/8"FPX 90°	1
23	368108	HYD ADAPTER STR 3/8"MBPP x 3/8"FP	1
24	368116	HYD ADAPTER STR 1/2" x 3/8" FP SWIVEL	2
25	370305	T-LOCK CABLE 6'	1
26	370342	CLEVIS 1/4"	1
27	400205	HEX NUT 5/16"-18 #5 PLTD	1
28	401108	HEX NUT, 1/2"-13 NYLOC #5 PLTD	2
29	401110	HEX NYLOC NUT 5/8"-11 #5 Pltd	2
30	402004	SPRING LOCK WASHER 1/4" PLTD	2
31	402005	WASHER 5/16", SPRING LOCK, MED PLTD	3
32	402006	WASHER SPRING LOCK 3/8" MED PLTD	24
33	402008	SPRING LOCK WASHER 1/2" PLTD	8
34	402009	SPRING LOCK WASHER, 9/16" PLTD	4
35	402109	EXTERNAL STAR LOCKWASHER 9/16"	8
36	402404	FLAT WASHER 1/4" PLTD	2
37	402405	FLAT WASHER 5/16" MED PLTD	3
38	402406	FLAT WASHER 3/8" PLTD	12
39	402408	FLAT WASHER 1/2" MED PLTD	6
40	402410	FLAT WASHER 5/8" MED PLTD	2
41	405602	HHCS 1/4" -20 x 3/4" USS #5 PLTD.	2
42	405631	HHCS 5/16"-18 x 1-3/4" #5 PLTD	1
43	405652	HHCS 3/8"-16 x 3/4" #5 PLTD	12
44	405654	HHCS 3/8"-16 x 1-1/4" #5 PLTD	12
45	405705	HHCS 1/2"-13 x 2" #5 PLTD	2
46	405706	HHCS 1/2"-13 x 2-1/4" PLTD #5	4
47	405725	HHCS 9/16" x 1"	8
48	405758	HHCS 5/8"-11 x 3" #5 PLTD	2
49	407804	HHCS 8mm x 16mm - 8.8 C.T.P.	2
50	407807	HHCS 14mm x 35mm - 8.8 C.T.P.	4
51	407808	HHCS 12mm x 35mm - 8.8 C.T.P.	4
52	412362	HOSE CLAMP 1-1/2"	1
53	781527	HYD HOSE ASSY x 24"MP 3/8"	1
54	781543	HYD HOSE ASSY 3/8"MP x 14"	1
55	860092	CONVERTER PLATE W.A.	1
56	860375	GEARBOX RES. W.A.	1
57	860625	643 TAIL SUPT 1105 42" WIDE CONV	1
	860297	643/644 TAIL SUPPORT WA 30" WIDE CONVEYOR	1
58	860631	643 TRANS HOUSING WA, 42" WIDE CONVEYOR	1
	860157	643 TRANS HOUSING WA, 30" WIDE CONVEYOR	1

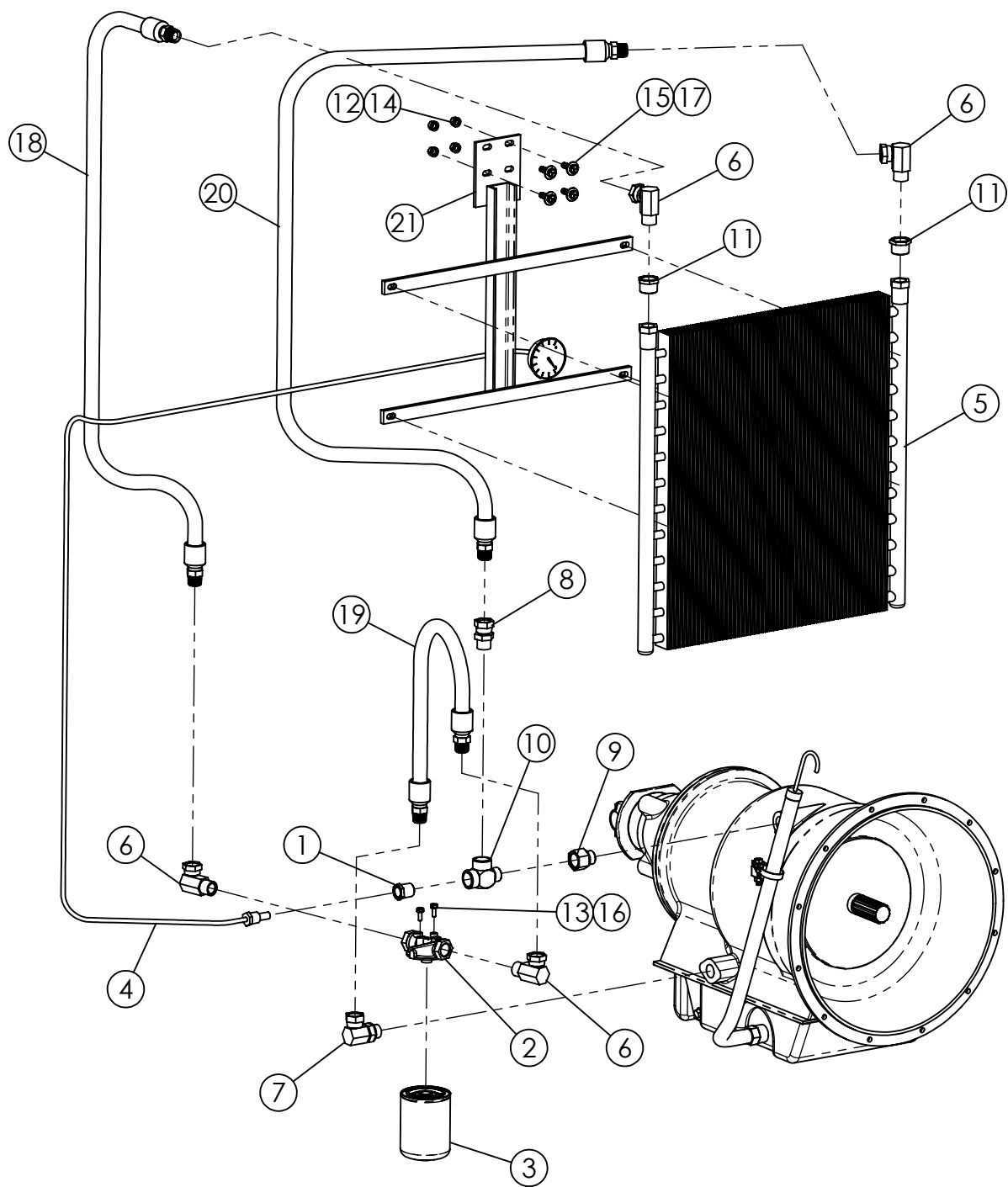
# 1355A-1505A TRANSMISSION ASSEMBLY



# 1355A-1505A TRANSMISSION ASSEMBLY

ITEM #	PART #	DESCRIPTION	QTY.
1	160261	GEAR BOX BRACKET - 11"	2
2	160264	HOUSING COVER - 5 1/2" x 5 1/2"	1
3	160278	DIPSTICK BRACE- 1/4" x 3/4" x 8"	1
4	160290	SHIFTER CABLE BRACKET	1
5	161009	HOUSING SPACER BAR - 5 3/4"	2
6	161053	644 STA CONVERTER SPACER - 1/2"	1
7	338485	DRIVE LINE BELL GUARD	1
8	344004	GBOX 1:2 INCREASER 1-3/8-6 x 35mm	1
9	344103	AT 540 SUPPORT RING	1
10	344104	TRANS DIPSTICK	1
11	344112	SHIFT LEVER - D2T2 - 7A257 -1X	1
12	344113	1480 TRANS. END YOKE STRAP 148	1
13	344114	1480 END YOKE STRAP REBC 148	2
14	344115	1480 STRAP BOLT CS-H5-24-27	4
15	344129	644 TORQUE CONVERTER	1
16	344138	MT644 REBUILT TRANSMISSION	1
17	344139	AT 644 FLEX PLATE	1
18	344140	AT 644 FLEX PLATE BOLT	6
19	351990	TRANS. MOUNT GROMMET 2-2133	4
20	362549	TANK BREATHER 8" DIP STICK	1
21	362555	SIGHT GAUGE 5"	1
22	368020	HYD ADAPTER 3/8"MP x 3/8"FPX 90°	1
23	368108	HYD ADAPTER STR 3/8"MBPP x 3/8"FP	1
24	368116	HYD ADAPTER STR 1/2" x 3/8" FP SWIVEL	2
25	370305	T-LOCK CABLE 6'	1
26	370342	CLEVIS 1/4"	1
27	400107	HEX NUT, 3/8"-16 SERRATED FLANGE #5	2
28	400205	HEX NUT 5/16"-18 #5 PLTD	1
29	401108	HEX NUT, 1/2"-13 NYLOC #5 PLTD	4
30	402004	SPRING LOCK WASHER 1/4" PLTD	2
31	402005	WASHER 5/16", SPRING LOCK, MED PLTD	3
32	402006	WASHER SPRING LOCK 3/8" MED PLTD	12
33	402008	SPRING LOCK WASHER 1/2" PLTD	8
34	402009	SPRING LOCK WASHER, 9/16" PLTD	4
35	402109	EXTERNAL STAR LOCKWASHER 9/16"	8
36	402404	FLAT WASHER 1/4" PLTD	2
37	402405	FLAT WASHER 5/16" MED PLTD	3
38	402406	FLAT WASHER 3/8" PLTD	12
39	402408	FLAT WASHER 1/2" MED PLTD	10
40	405602	HHCS 1/4" -20 x 3/4" USS #5 PLTD.	2
41	405631	HHCS 5/16"-18 x 1-3/4" #5 PLTD	1
42	405654	HHCS 3/8"-16 x 1-1/4" #5 PLTD	12
43	405705	HHCS 1/2"-13 x 2" #5 PLTD	2
44	405706	HHCS 1/2"-13 x 2-1/4" PLTD #5	4
45	405725	HHCS 9/16" x 1"	8
46	405758	HHCS 5/8"-11 x 3" #5 PLTD	2
47	407804	HHCS 8mm x 16mm - 8.8 C.T.P.	2
48	407807	HHCS 14mm x 35mm - 8.8 C.T.P.	4
49	407808	HHCS 12mm x 35mm - 8.8 C.T.P.	4
50	409543	SQ HD SET SCREW CUP, 3/8" x 1"	2
51	412362	HOSE CLAMP 1-1/2"	1
52	440954	DECAL, USE MOBIL DELVAC SYNTHETIC 75W-90	1
53	781527	HYD HOSE ASSY x 24"MP 3/8"	1
54	781543	HYD HOSE ASSY 3/8"MP x 14"	1
55	860092	CONVERTER PLATE W.A.	1
56	860375	GEARBOX RES. W.A.	1
57	860656	644 TAIL SUPPORT WA 1355, 42" WIDE CONV	1
	860297	643/644 TAIL SUPPORT WA, 30" WIDE CONVEYOR	1
58	860657	644 TRANS HOUSING WA 1355, 42" WIDE CONVEYOR	1
	860332	644 TRANS HOUSING WA 1355, 30" WIDE CONVEYOR	1

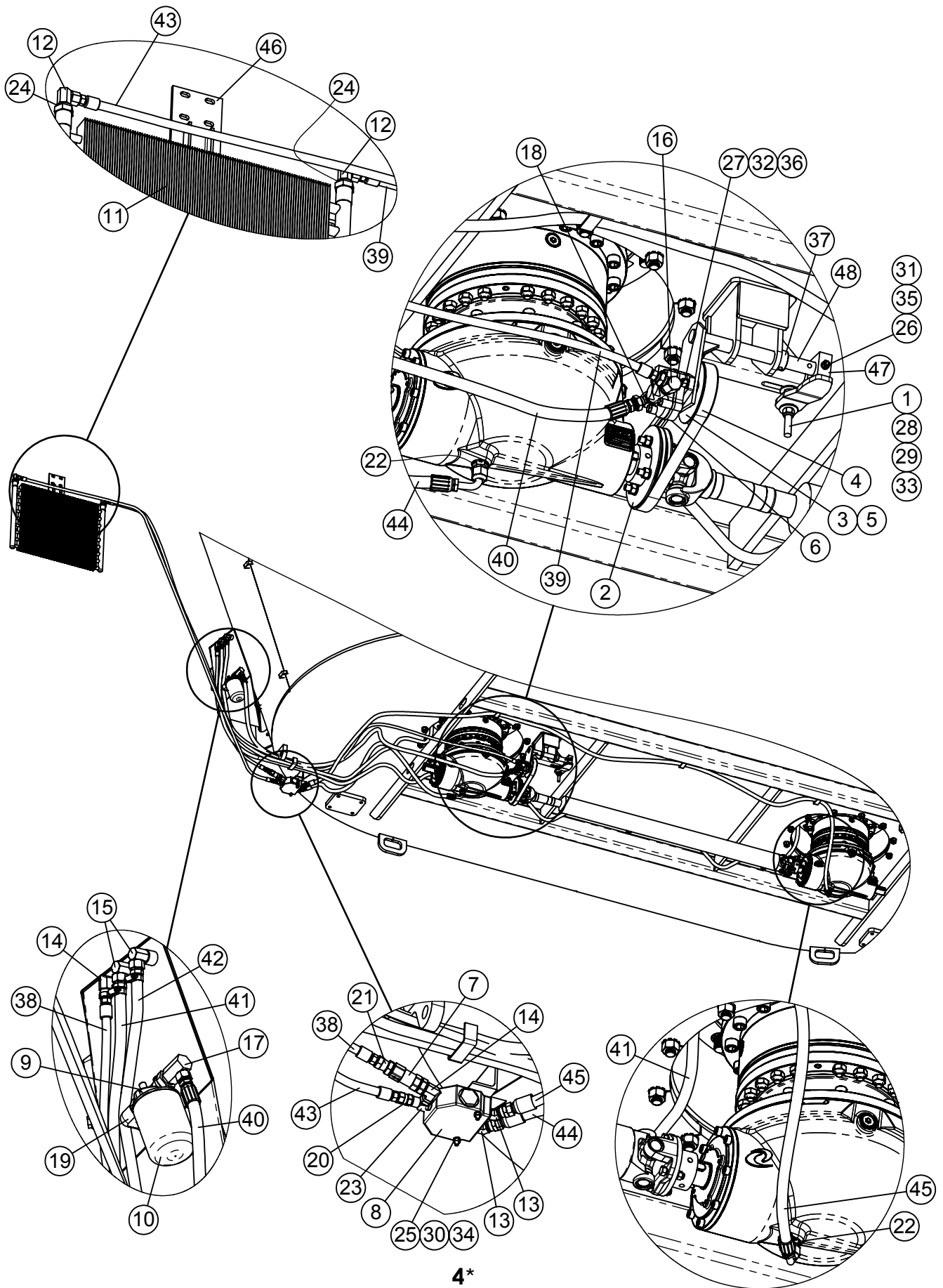
# 1105A-1355A-1505A TRANSMISSION COOLER ASSEMBLY



# 1105A-1355A-1505A TRANSMISSION COOLER ASSEMBLY

ITEM #	PART #	DESCRIPTION	QTY.
1	310818	BUSHING 3/4" MP x 1/2" FP	1
2	362403	FILTER HEAD 3/4", ZAF-07-25-0	1
3	362440	FILTER ELEMENT - AE-10	1
4	362560	OIL TEMPERATURE GAUGE	1
5	362576	HAYDEN COOLER 1292	1
6	368042	HYD SWIVEL 3/4"MP x 3/4"FP 90°	4
7	368057	ELBOW SWIVEL, 1-1/16"MOR x 3/4"FPS 90°	1
8	368117	STRAIGHT ADAPTOR 3/4" MP x 3/4" FPS	1
9	368127	STRAIGHT ADAPTOR 1-1/16" MOR x 3/4" FP	1
10	368616	STREET TEE 3/4"MP x 3/4"FP x 3/4"FP	1
11	368670	BRASS REDUCER 1" MP x 3/4" FP	2
12	400206	HEX NUT 3/8"-16 #5 PLTD	4
13	402004	SPRING LOCK WASHER 1/4" PLTD	2
14	402006	WASHER SPRING LOCK 3/8" MED PLTD	4
15	402406	FLAT WASHER 3/8" PLTD	4
16	405602	HHCS 1/4" -20 x 3/4" USS #5 PLTD.	2
17	405654	HHCS 3/8"-16 x 1-1/4" #5 PLTD	4
18	781347	HYD HOSE 3/4"MP x 3/4"MP x 48"	1
19	781348	HYD HOSE 3/4"MP x 3/4"MP x 35"	1
20	781349	HYD HOSE 3/4"MP x 3/4"MP x 60"	1
21	860208	COOLER HANGER WA	1

# 1105/1355/1505 VERTICAL CIRCULATION KIT BELT DRIVE #660240

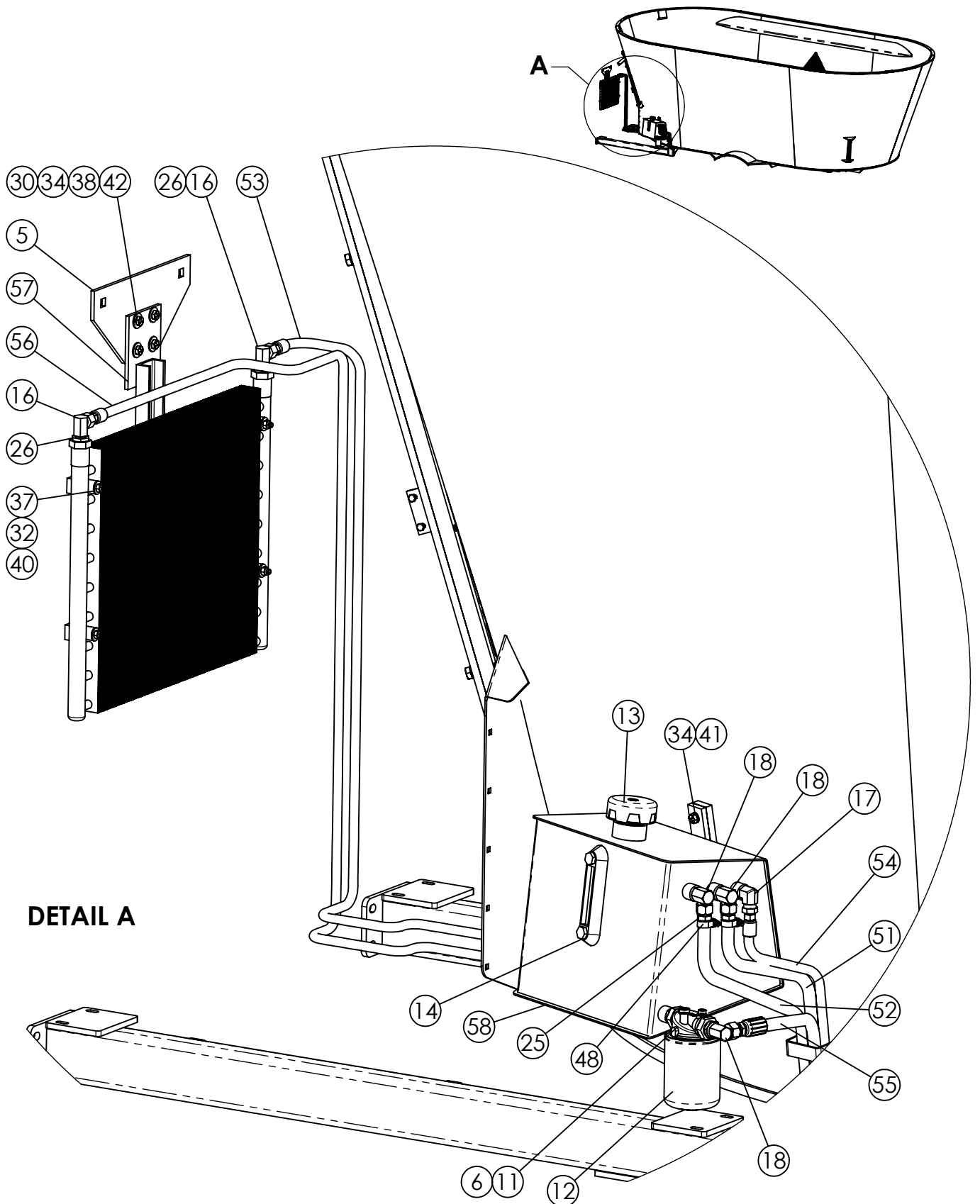


# 1105/1355/1505 VERTICAL CIRCULATION KIT BELT DRIVE #660240

1	PART #	DESCRIPTION	QTY.
1	140689	MOTOR MOUNT TIGHTENER ROD	1
2	162710	PULLEY, 1350 3V-2 GROOVE DR FLG	1
3	324118	SHEAVE , 3V-2GRV X 4.75 SH	1
4	325383	V-BELT POWERBAND, 3VX-355	1
5	336008	BUSHING SH 1/2 QD	1
6	362010	HYDRAULIC PUMP, CCW ,PARKER	1
7	362240	CHECK VALVE, 5 PSI (1/2" FP x 1/2" FP)	1
8	362289	FLOW DIVIDER VALVE, PRINCE HYD	1
9	362403	FILTER HEAD 3/4", ZAF-07-25-0	1
10	362440	FILTER ELEMENT - AE-10	1
11	362578	HAYDEN COOLER 1290 (GB)	1
12	368020	SWIVEL 90° 3/8MP x 3/8FP	2
13	368025	HYD SWIVEL 45° (3/8 MP x 3/8 FPX)	2
14	368028	SWIVEL 90° 1.2MP x 3/8FP	2
15	368031	HYD SWIVEL 1/2" MP x 1/2" FP 90°	2
16	368040	SWIVEL 90v 3/8FP x 3/4MOR	1
17	368041	SWIVEL, 90° 3/4" MP x 1/2" FP	1
18	368047	HYD SWIVEL 7/8"MOR x 1/2"FP 90°	1
19	368049	HYD ADAPTER, 90° 3/4 MP x 3/4 MP	1
20	368110	HYD ADAPTER, STRAIGHT 3/8MP x 3/8FP SWIVEL	1
21	368116	HYD ADAPTER STR 1/2" x 3/8" FP SWIVEL	1
22	368227	HYD ADAPTER, STRT 1/2 x 3/4JIC (8MJIC-8MBSSP)	4
23	368604	HYD ADAPTER, TEE 3/8" FP x (2)3/8"MP	1
24	368612	HYD BUSHING, STEEL 3/4"MP x 3/8"FP	2
25	400204	HEX NUT 1/4"-20 #5 PLTD	2
26	400205	HEX NUT 5/16"-18 #5 PLTD	1
27	400206	HEX NUT 3/8"-16 #5 PLTD	2
28	400608	HEX JAM NUT 1/2"-13 #5 PLTD	3
29	401108	HEX NUT, 1/2"-13 NYLOC #5 PLTD	1
30	402004	WASHER, SPRING LOCK 1/4" PLTD	2
31	402005	WASHER 5/16", SPRING LOCK, MED PLTD	1
32	402006	WASHER SPRING LOCK 3/8" MED PLTD	2
33	402408	WASHER, FLAT 1/2" MED PLTD	4
34	405610	HHCS 1/4"-20 x 2 1/2" #5 PLTD	2
35	405634	HHCS 5/16"-18 X 2 1/2" #5 PLTD	1
36	407041	CHCS 3/8"-16 x 1-1/4" #5 PLTD	2
37	412416	SET COLLAR 1" PLTD	2
38	781061	HOSE ASM 3/8 x 42, 3/8MP x 3/8MP	1
39	781073	HOSE ASM 3/8" x 144" 3/8MP x 3/8MP	1
40	781352	HOSE ASM 1/2 x 97, 1/2MP	1
41	781386	HOSE ASM, LOLA 1/2 x 184, 1/2MP x 3/4 FJ90	1
42	781387	HOSE ASM, LOLA 1/2 x 97, 1/2 MP x 3/4 FJ90	1
43	781840	HOSE ASM, 3/8 x 109, 3/8MP x 3/8MP	1
44	781890	HOSE ASM 1/2 x 50, 3/8MP x 3/4FJ90	1
45	781891	HOSE ASM, 1/2 x 158, 3/8MP x 3/4FJ90	1
46	860208	COOLER HANGER WA	1
47	860790	CIRCULATION PUMP LEVER ARM WA	1
48	872138	PUMP SWING ARM	1

# 1105A-1355A-1505A GEARBOX CIRCULATION PARTS

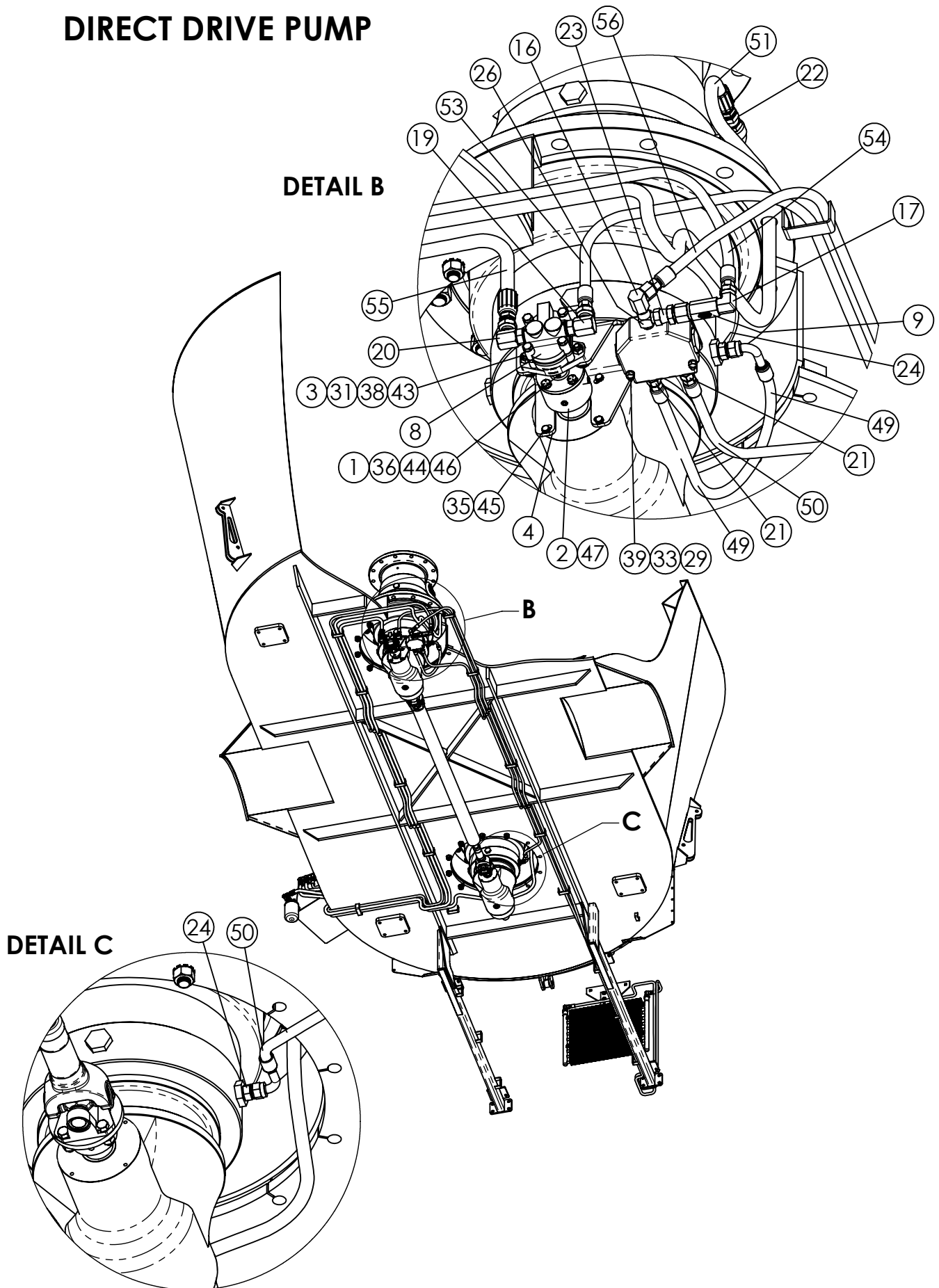
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# 1105A-1355A-1505A GEARBOX CIRCULATION PARTS

ITEM #	PART #	DESCRIPTION	QTY.
5	162165	COOLER MOUNT PLATE	1
6	310818	BUSHING 3/4" MP x 1/2" FP	2
11	362403	FILTER HEAD 3/4", ZAF-07-25-0	1
12	362440	FILTER ELEMENT - AE-10	1
13	362549	TANK BREATHER 8" DIP STICK	1
14	362555	SIGHT GAUGE 5"	1
16	368020	HYD ADAPTER 3/8"MP x 3/8"FPX 90°	3
17	368028	HYD SWIVEL 90° 1/2"MP x 3/8"FP	2
18	368031	HYD SWIVEL 1/2" MP x 1/2" FP 90°	3
25	368506	HOSE BARB 1/2"MP x 1/2"	2
26	368612	STEEL BUSHING 3/4"MP x 3/8"FP	2
30	400206	HEX NUT 3/8"-16 #5 PLTD	4
32	401105	HEX NYLOC NUT 5/16"-18 #5 PLTD	4
34	402006	WASHER SPRING LOCK 3/8" MED PLTD	6
37	402405	FLAT WASHER 5/16" MED PLTD	4
38	402406	FLAT WASHER 3/8" PLTD	6
40	405634	HHCS 5/16"-18 X 2 1/2" #5 PLTD	4
41	405652	HHCS 3/8"-16 x 3/4" #5 PLTD	2
42	405654	HHCS 3/8"-16 x 1-1/4" #5 PLTD	4
48	412360	RUBBER HOSE CLAMP, 1-1/4"	2
51	781386	HYD HOSE ASSY LOLA, 1/2"MP x 1/2"MP x 254"	1
52	781387	HYD HOSE ASSY LOLA, 1/2"MP x 1/2"MP x 122"	1
53	781667	HYD HOSE ASSY, 3/8"MP x 3/8"MP x 278"	1
54	781668	HYD HOSE ASSY, 3/8"MP x 3/8"MP x 217"	1
55	781669	HYD HOSE ASSY, 1/2"MP x 1/2"MP x 202"	1
56	781670	HYD HOSE ASSY, 3/8"MP x 3/8"MP x 298"	1
57	860208	COOLER HANGER WA	1
58	860481	GEARBOX RESERVOIR WA, 5 GAL	1

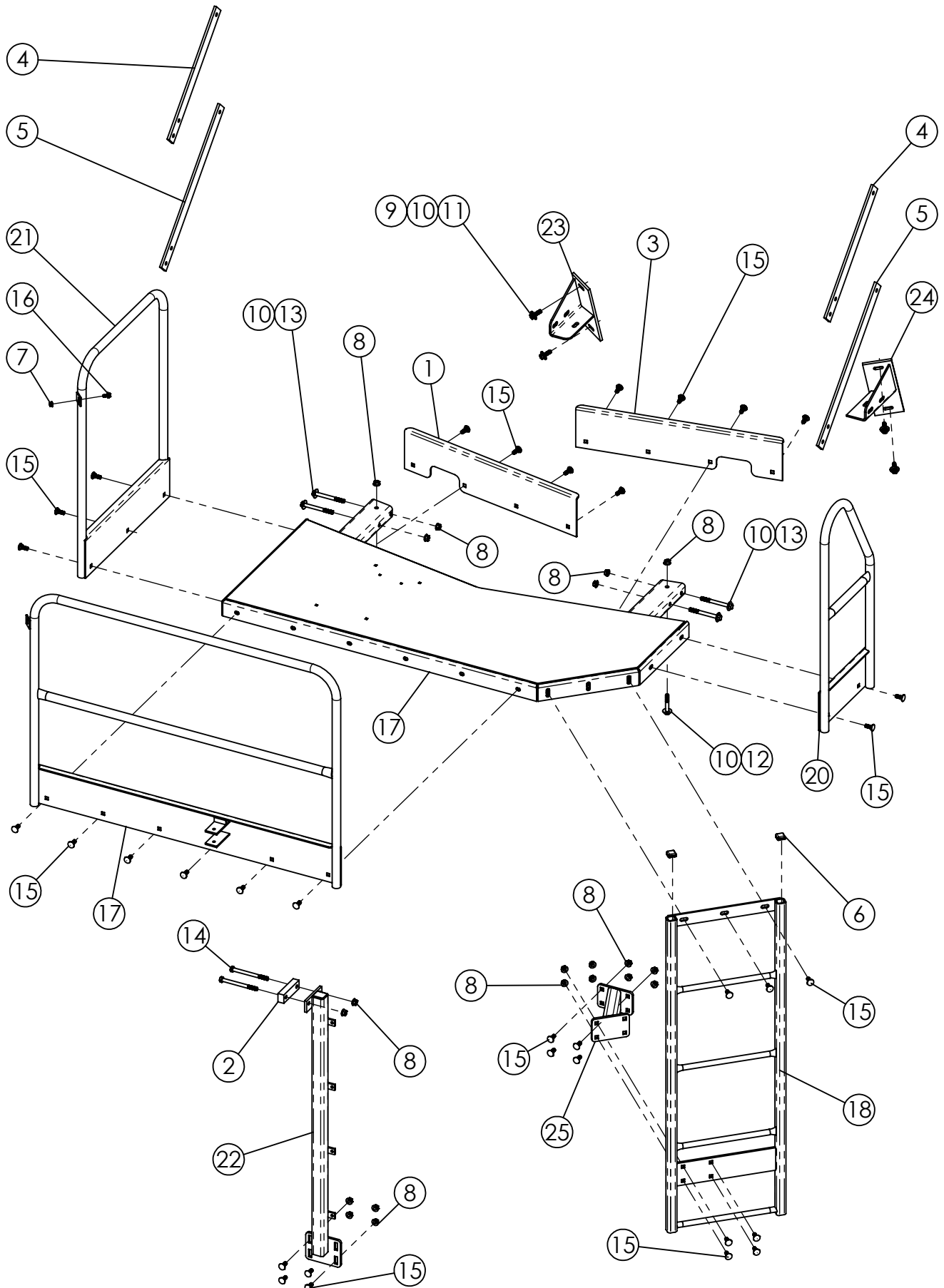
# 1105A-1355A-1505A GEARBOX CIRCULATION PARTS DIRECT DRIVE PUMP



# 1105A-1355A-1505A GEARBOX CIRCULATION PARTS

ITEM #	PART #	DESCRIPTION	QTY.
1	161708	SHAFT ADAPTER, 1/2"	1
2	161709	SHAFT ADAPTER, 45mm	1
3	161711	BOLT SPACER, 3/8"	2
4	161712	CIRCULATION PUMP BRACKET	1
8	362011	HYDRAULIC PUMP C/W PARKER	1
9	362231	CHECK VALVE, 25 PSI	1
16	368020	HYD ADAPTER 3/8"MP x 3/8"FPX 90°	3
17	368028	HYD SWIVEL 90° 1/2"MP x 3/8"FP	2
19	368040	HYD SWIVEL 3/4" MOR x 3/8"FP 90°	1
20	368047	HYD SWIVEL 7/8"MP x 1/2"FP 90°	1
21	368110	STRAIGHT ADAPTER 3/8"MP x 3/8"FP SWIVEL	2
22	368111	STRAIGHT ADAPTER 1/2" x 1/2"FP SWIVEL	2
23	368116	HYD ADAPTER STR 1/2" x 3/8" FP SWIVEL	1
24	368227	STRT ADAPTER 1/2BSPP x 3/4JIC	2
26	368604	ADAPTER TEE, 3/8" FP x (2)3/8"MP	1
29	400204	HEX NUT 1/4"-20 #5 PLTD	2
31	400906	HEX NUT, 3/8"-16 CROWN LOC	2
33	402004	SPRING LOCK WASHER 1/4" PLTD	2
35	402104	EXTERNAL STAR LW 1/4" PLTD	4
36	402105	EXTERNAL STAR LW 5/16" PLTD	4
38	402406	FLAT WASHER 3/8" PLTD	6
39	405610	HHCS 1/4"-20 x 2 1/2" #5 PLTD	2
43	405655	HHCS 3/8"-16 x 1 1/2" #5 PLTD	2
44	406027	HHCS 5/16"-24 x 3/4" #5 PLTD	4
45	407830	HHCS M6 X 1.0 X 12MM CLS 8.8	4
46	409203	SET SCREW #8-32 x 3/16", SCHD, CUP POINT	2
47	409205	SET SCREW 3/8"-24 x 1/2", SCHD, CUP POINT	2
49	781317	HYD HOSE ASSY, 3/8"MP x 3/8"MP x 23"	1
50	781334	HYD HOSE ASSY, 3/8"MP x 3/8"MP x 118"	1
51	781386	HYD HOSE ASSY LOLA, 1/2"MP x 1/2"MP x 254"	1
53	781667	HYD HOSE ASSY, 3/8"MP x 3/8"MP x 278"	1
54	781668	HYD HOSE ASSY, 3/8"MP x 3/8"MP x 217"	1
55	781669	HYD HOSE ASSY, 1/2"MP x 1/2"MP x 202"	1
56	781670	HYD HOSE ASSY, 3/8"MP x 3/8"MP x 298"	1

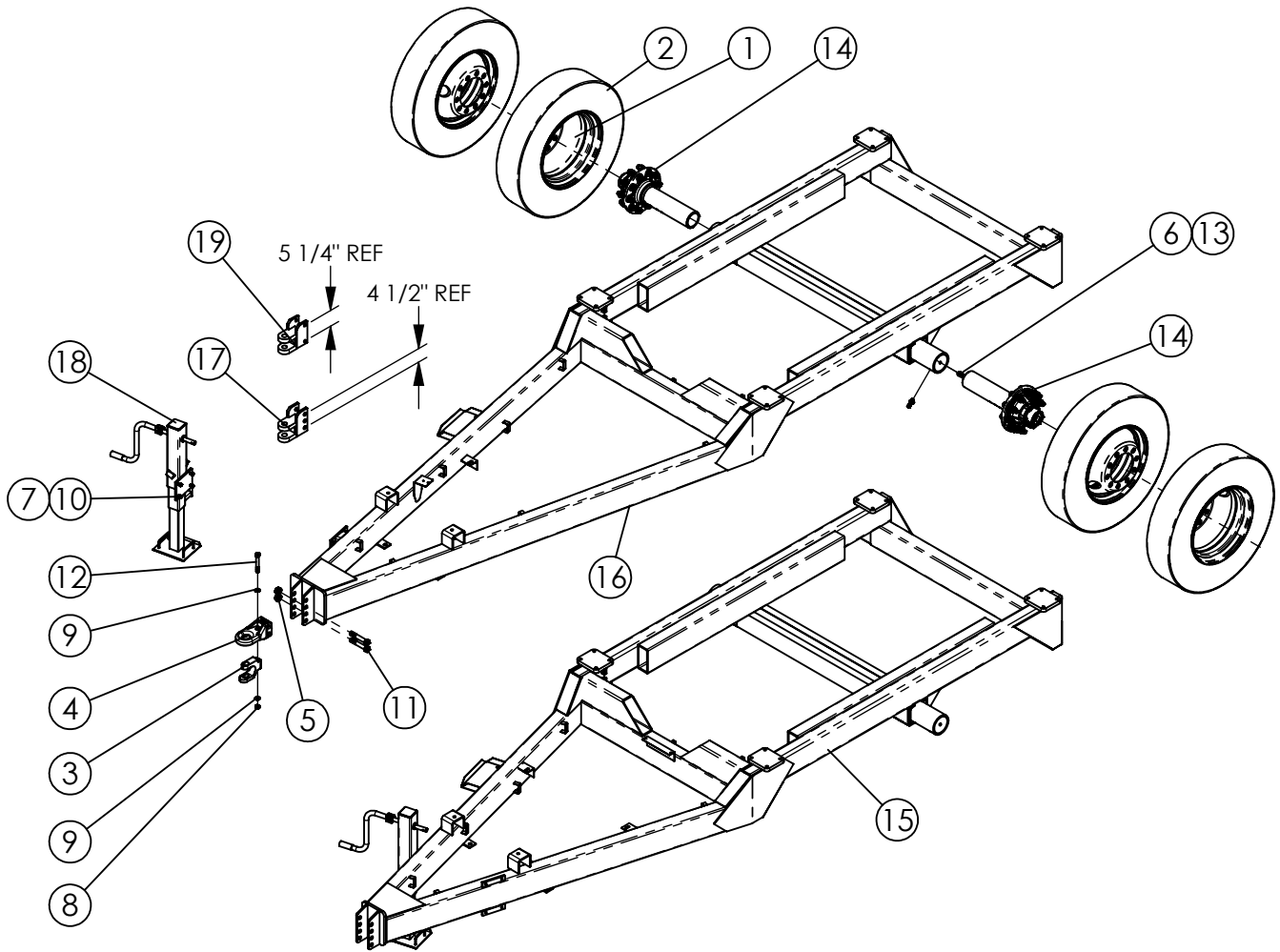
# 1105A-1355A-1505A PLATFORM ASSEMBLY #760597



## 1105A-1355A-1505A PLATFORM ASSEMBLY

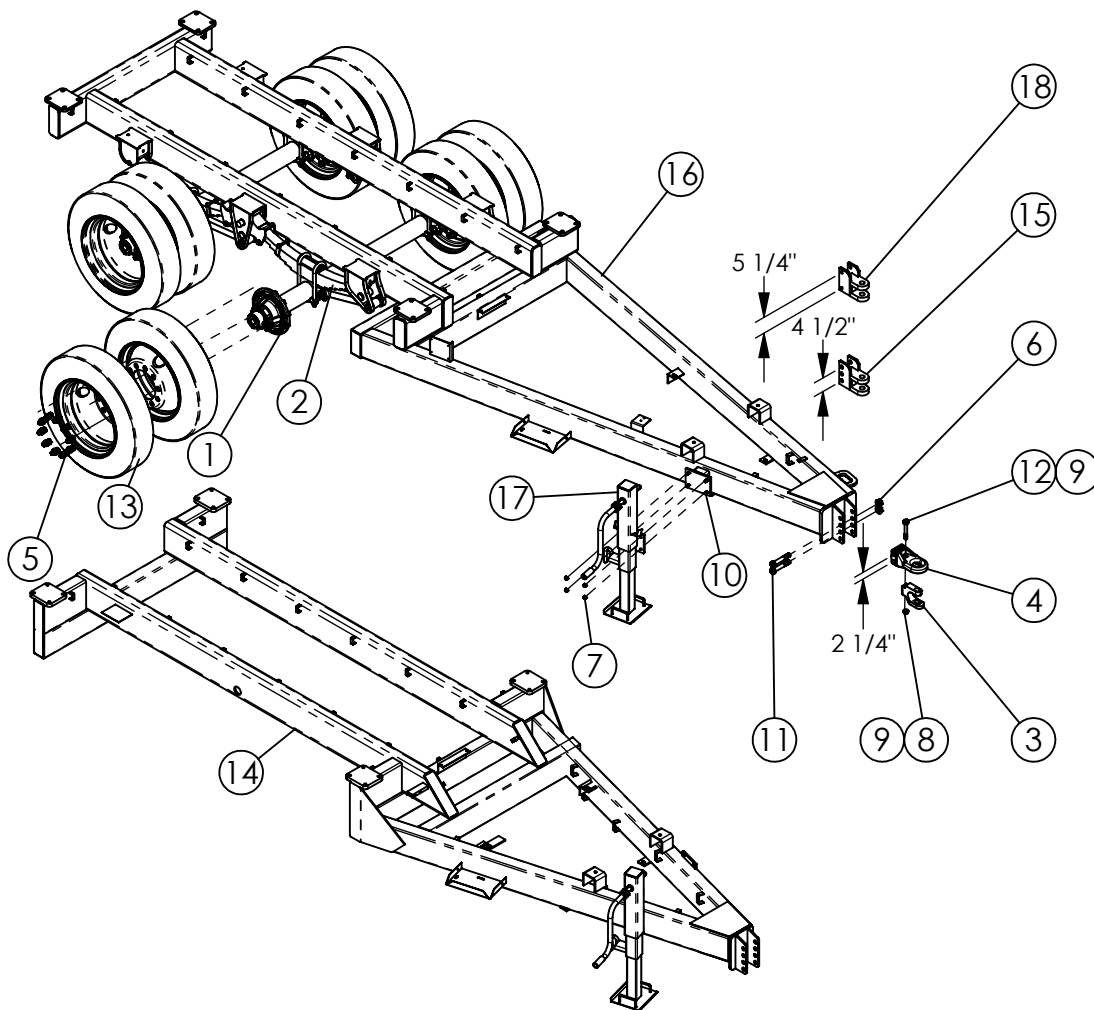
ITEM #	PART #	DESCRIPTION	QTY.
1	161908	KICKBOARD RH REAR	1
2	161926	SPACER PLATE	1
3	162071	KICKBOARD LH REAR	1
4	162284	PLATFROM SUPPORT BAR - 865	2
5	162285	PLATFORM SUPPORT BAR - 745	2
6	310954	CAPLUG-RIBBED-SQ 1-1/4" x 1.175"	2
7	400107	HEX NUT, 3/8-16 SERR FLANGE #5 PLTD	1
8	400114	HEX NUT, 1/2"-13 SERRATED FLANGE #5 PLTD	42
9	402008	SPRING LOCK WASHER 1/2" PLTD	4
10	402408	FLAT WASHER 1/2" MED PLTD	10
11	405703	HHCS 1/2"-13 x 1-1/2" #5 PLTD	4
12	405709	HHCS 1/2"-13 x 3" #5 PLTD	2
13	405715	HHCS 1/2"-13 x 5" #5 PLTD	4
14	405717	HHCS 1/2"-13 x 6" #5 PLTD	2
15	407101	CHCS 1/2"-13 x 1-1/4" #5 PLTD	34
16	407900	HHCS 3/8"-16 x 3/4" SERRATED #5 PLTD	1
17	860541	PLATFORM WA 1355 TRAILER	1
18	860542	LADDER WA 1355 TRAILER	1
17	860543	FRONT HANDRAIL - TRL	1
20	860544	HANDRAIL LH	1
21	860545	RH HANDRAIL TRAILER	1
22	860546	PLATFORM SUPPORT TUBE WA	1
23	860547	FRONT RH PLATFORM SUPPORT	1
24	860548	FRONT LH PLATFORM SUPPORT	1
25	860549	PLATFORM MOUNT WA - VERT	1

# 1105A TRAILER ASSEMBLY



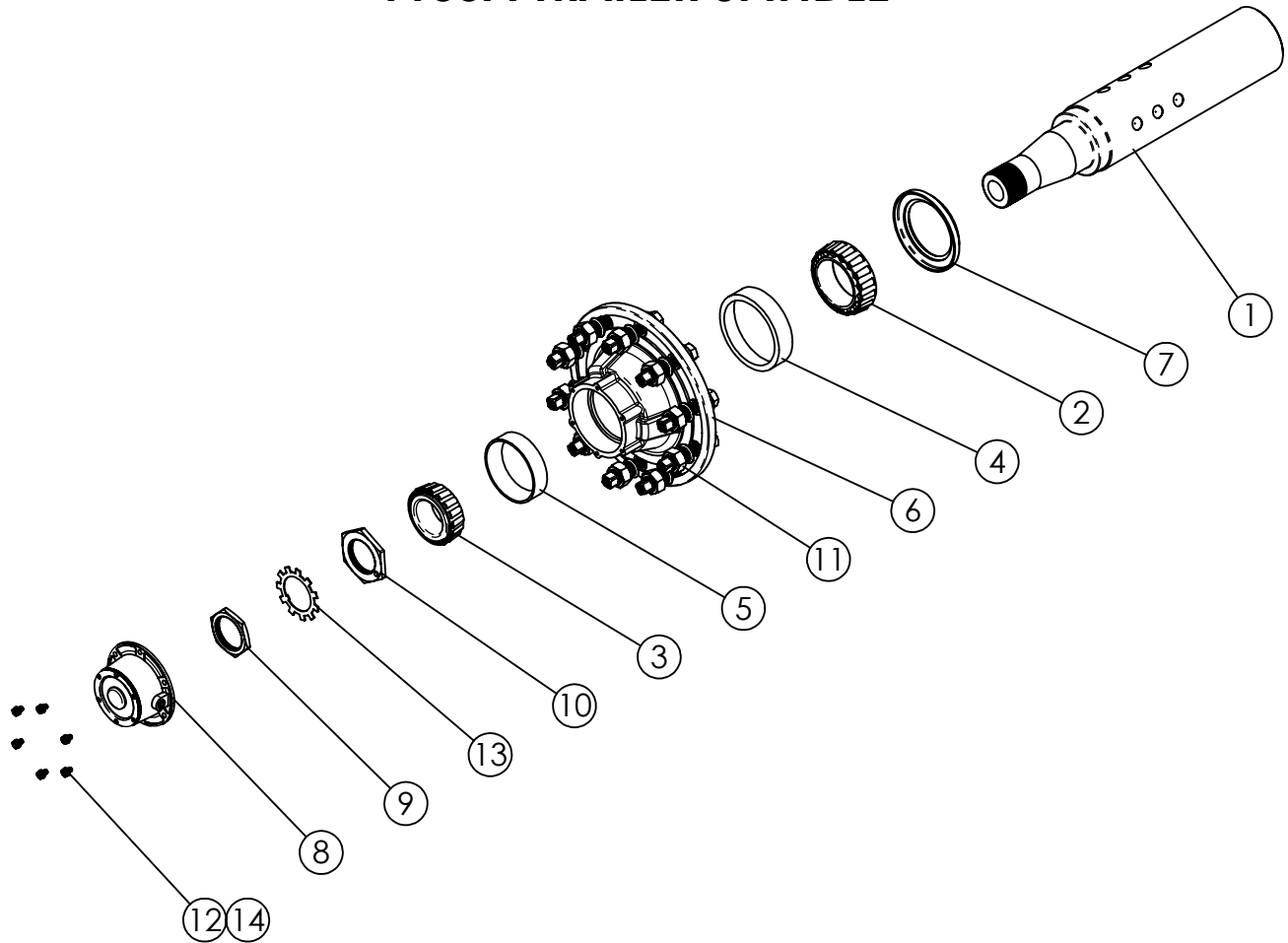
ITEM #	PART #	DESCRIPTION	QTY.
1	372425	WHEEL, 10 BOLT BUD 8-1/4" x 22.5"	4
2	372631	TIRE 11R x 22.5 RECAP	4
3	374101	CAT 3 CLEVIS INSERT (PPI-208VR)	1
4	374109	BASE HITCH ISO-21244 PPI-301VH	1
5	400117	FLANGE HEX NUT 1"-8 SERRATED	2
6	400612	HEX JAM NUT 3/4-10	4
7	400908	HEX CENTER LOCKNUT 1/2"-13 #9 PLTD	4
8	400918	HEX CROWN LOCKNUT 3/4"-10 #8 PLTD	1
9	402512	FLAT WASHER 3/4" SAE	2
10	405703	HHCS 1/2"-13 x 1-1/2" #5 PLTD	4
11	405837	HHCS 1"-8 x 6" #5 PLTD	2
12	406488	HHCS 3/4"-10 x 5-1/2" #8 Pltd	1
13	409623	SQ HEAD SET SCREW 3/4" x 2"	4
14	750110-C	TRAILER HUB ASSEMBLY, 20K LB	2
15	860289	1105 VERTICAL TRAILER WA 30" CONV	1
16	860624	1105 VERTICAL TRAILER WA 42" CONV	1
17	860648	CLEVIS WA (4-1/2" BOLT SPACING)	1
18	872090	DROP LEG JACK 9T	1
19	872094	TRAILER CLEVIS W.A. (5-1/4" BOLT SPACING)	1

## 1355A-1505A TRAILER ASSEMBLY



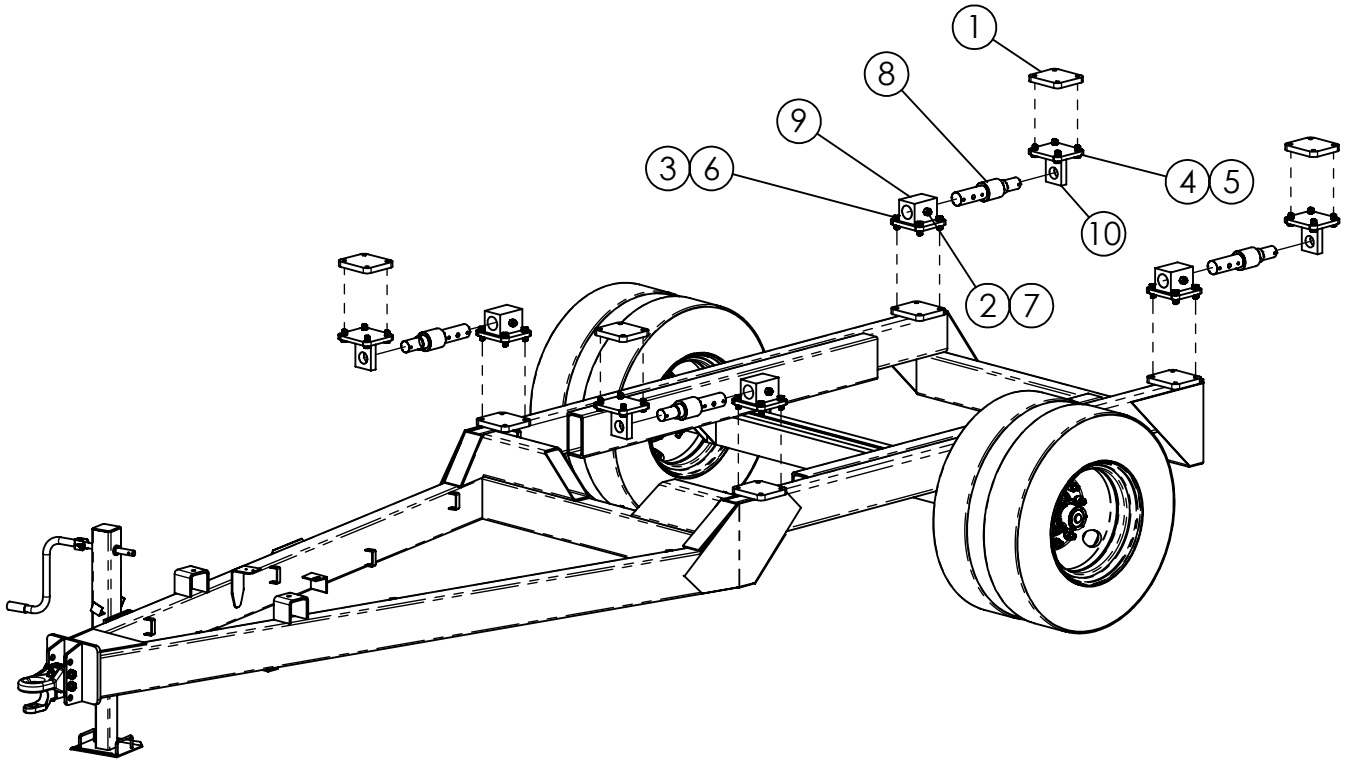
ITEM #	PART #	DESCRIPTION	QTY.
1	372077	AXLE ASSEMBLY	2
2	372188	TANDEM SUSPENSION KIT, 44,000lb	1
3	374101	CAT 3 CLEVIS INSERT (PPI-208VR)	1
4	374109	BASE HITCH ISO-21244 PPI-301VH	1
5	400112	RH INNER THIMBLE & OUTER LUG NUT	40
6	400117	FLANGE HEX NUT 1"-8 SERRATED	2
7	400908	HEX CENTER LOCKNUT 1/2"-13 #9 PLTD	4
8	400918	HEX CROWN LOCKNUT 3/4"-10 #8 PLTD	1
9	402512	FLAT WASHER 3/4" SAE	2
10	405703	HHCS 1/2"-13 x 1-1/2" #5 PLTD	4
11	405837	HHCS 1"-8 x 6" #5 PLTD	2
12	406488	HHCS 3/4"-10 x 5-1/2" #8 Pltd	1
13	781235	RECAP TIRE & DUAL WHEEL 255R70 x 22.5	8
14	860336	1355A TRAILER WA 30" WIDE CONVEYOR	1
15	860648	CLEVIS WA (4-1/2" BOLT SPACING)	1
16	860655	1355A TRAILER WA 42" WIDE CONVEYOR	1
17	872090	DROP LEG JACK 9T	1
18	872094	TRAILER CLEVIS W.A. (5-1/4" BOLT SPACING)	1

# 1105A-1355A-1505A HUB ASSEMBLY 1105A TRAILER SPINDLE



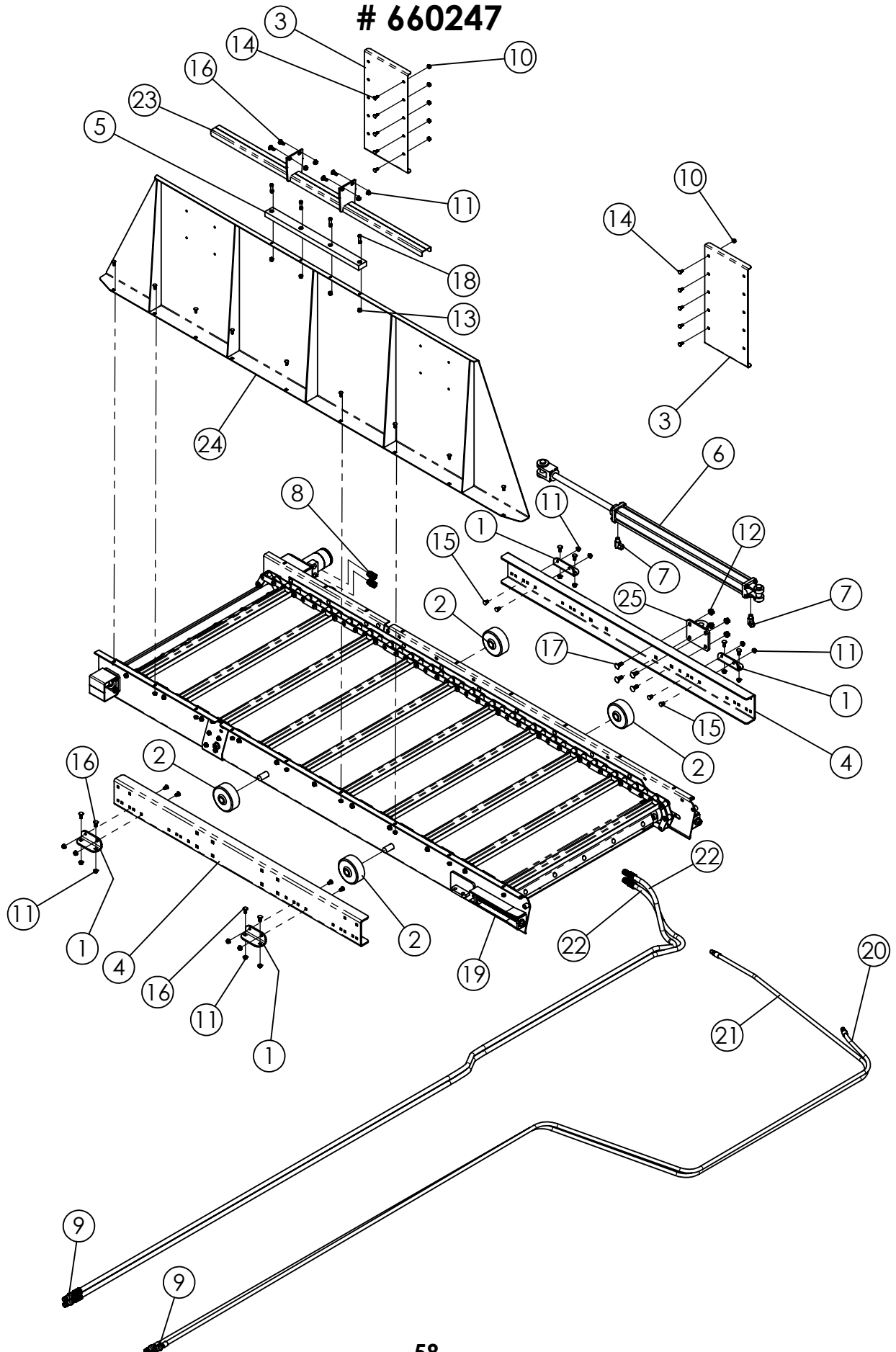
ITEM #	PART #	DESCRIPTION	QTY.
1	184614	20,000# SPINDLE (1105A ONLY)	1
2	342213	INNER BEARING 3.543" BORE	1
3	342214	OUTSIDE BEARING 2-5/8" OD	1
4	342215	INNER BEARING RACE 5.787"OD	1
5	342216	OUTSIDE BEARING RACE 4-13/16" OD	1
6	372212	10-BOLT HUB ASSEMBLY, (RIGHT HAND) 20,000#	1
7	372304	SEAL 4-3/8" BORE	1
8	372309	DUST CAP, 20,000# HUB	1
9	400033	OUTER NUT, 3/8" THICK x 2-5/8" ID	1
10	400034	INNER NUT, 3/8" THICK x 2-5/8" ID	1
11	400112	RH INNER THIMBLE & OUTER LUG NUT	10
12	402005	SPRING LOCK WASHER 5/16" MED PLTD	6
13	402904	LOCKING WASHER 1/4" THICK x 2-41/64" ID	1
14	405625	HHCS 5/16"-18 x 1/2" #5 PLTD	6
15	407728	STUD BOLT 3/4" x 2-9/16", RIGHT HAND	10

# 1105A-1355A-1505A TRAILER SCALE SYSTEM ASSEMBLY



ITEM #	PART #	DESCRIPTION	QTY
1	160016	SCALE PAD 7-1/8" x 7-7/8"	4
2	401112	HEX NUT, 3/4"-10 NYLOC #5 PLTD	4
3	402012	SPLIT LOCK WASHER 3/4" PLTD	16
4	402112	LOCK WASHER, EXTERNAL STAR 3/4"	16
5	405778	HHCS 3/4"-10 x 1-3/4" #5 PLTD	16
6	405779	HHCS 3/4"-10 x 2" #5 PLTD	16
7	405789	HHCS 3/4"-10 x 5" #5 PLTD	4
8	450824	WEIGH BAR 2-1/2", 21 FT CORD (FRONT OF MIXER)	4
9	860055	2-1/2" BAR BLOCK WA	4
10	860426	WEIGH BAR MOUNT W.A. 2-1/2"	4

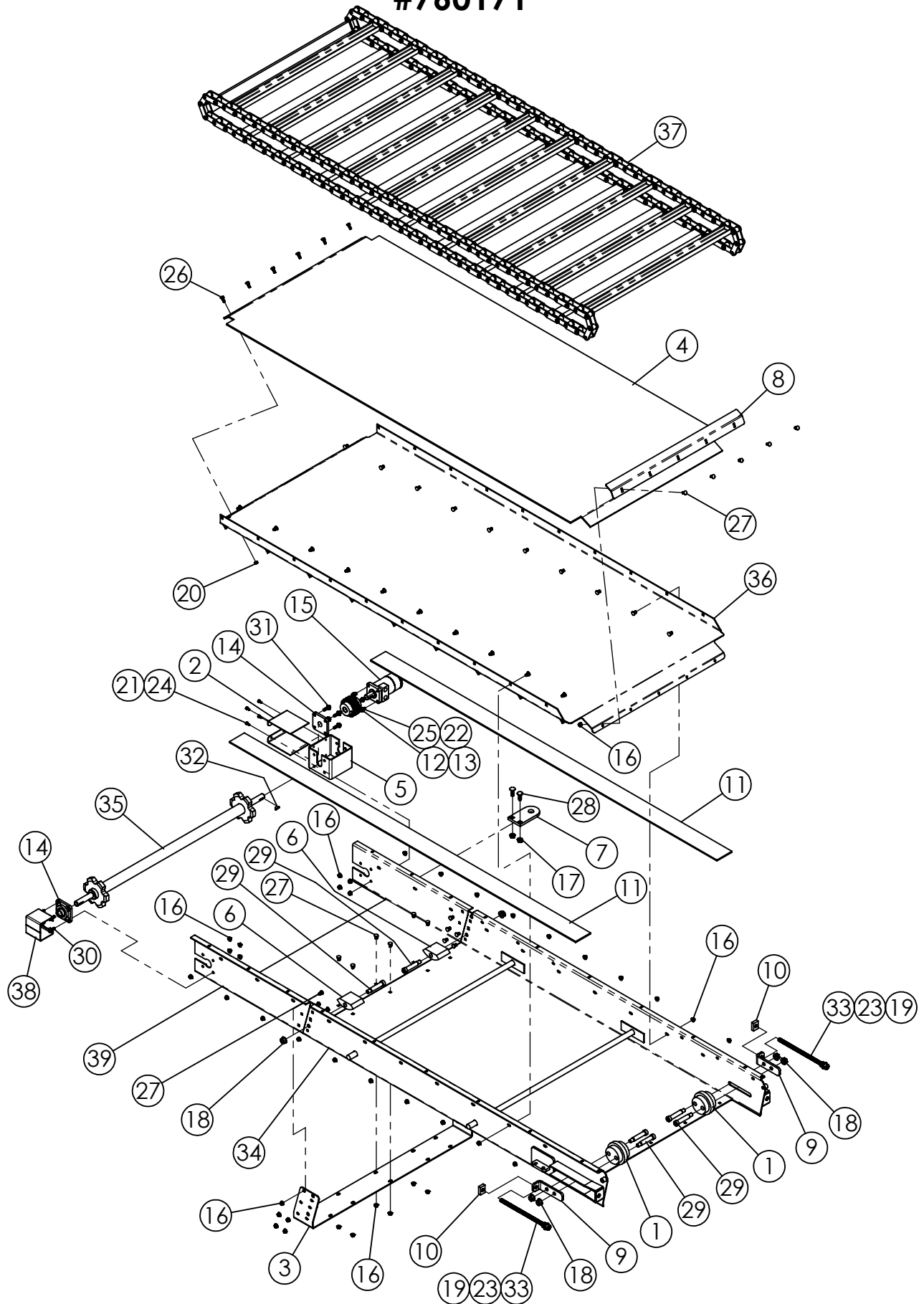
# 1105A-1355A-1505A 42" WIDE FLAT CONVEYOR ASSY # 660247



# 1105A-1355A-1505A 42" WIDE FLAT CONVEYOR ASSY

ITEM #	PART #	DESCRIPTION	QTY
1	161810	RAIL BOLT PLATE	4
2	161811	CONVEYOR SLIDE ROLLER	4
3	161872	CONVEYOR SIDE SHIELD	2
4	161934	CONVEYOR SLIDE RAIL FLAT & DOGLEG	2
5	161944	PLASTIC SLIDE RAIL	1
6	364076	HYDRAULIC CYLINDER 2" x 30", 40-1/4" C-C	1
7	368020	HYD SWIVEL 90° 3/8"MP x 3/8"FP	2
8	368118	HYD STRAIGHT ADAPTER 7/8"MORB x 1/2" FP SWIVEL	2
9	368238	QUICK DISCONNECT, PIONEER-1/2" FP	4
10	400106	HEX NUT, 5/16"-18 SERRATED FLANGE #5 PLTD	19
11	400107	HEX NUT, 3/8"-16 SERRATED FLANGE	20
12	400114	HEX NUT, 1/2"-13 SERRATED FLANGE #5 PLTD	4
13	401106	HEX NUT, 3/8"-16 NYLOC #5 PLTD	4
14	407020	CHCS 5/16"-18 x 3/4" #5 PLTD	19
15	407039	CHCS 3/8"-16 x 3/4" #5 PLTD	8
16	407040	CHCS 3/8"-16 x 1" #5 PLTD	12
17	407101	CHCS 1/2"-13 x 1-1/4" #5 PLTD	4
18	409001	SHCS, 3/8" x 1-1/2"	4
19	760171	VERTICAL CONVEYOR ASSY FLAT SLIDING	1
20	781075	HYD HOSE ASSY, 3/8" x 180" x 3/8" MP	1
21	781088	HYD HOSE ASSY, 3/8" x 220" x 3/8" MP	1
22	781301	HYD HOSE ASSY, 1/2" x 198" x 1/2" MP	2
23	860563	FRONT SHIELD SUPPORT CHANNEL	1
24	860564	CONVEYOR FRONT SHIELD FLAT SLIDING	1
25	860597	SLIDE CYL LUG WA	1

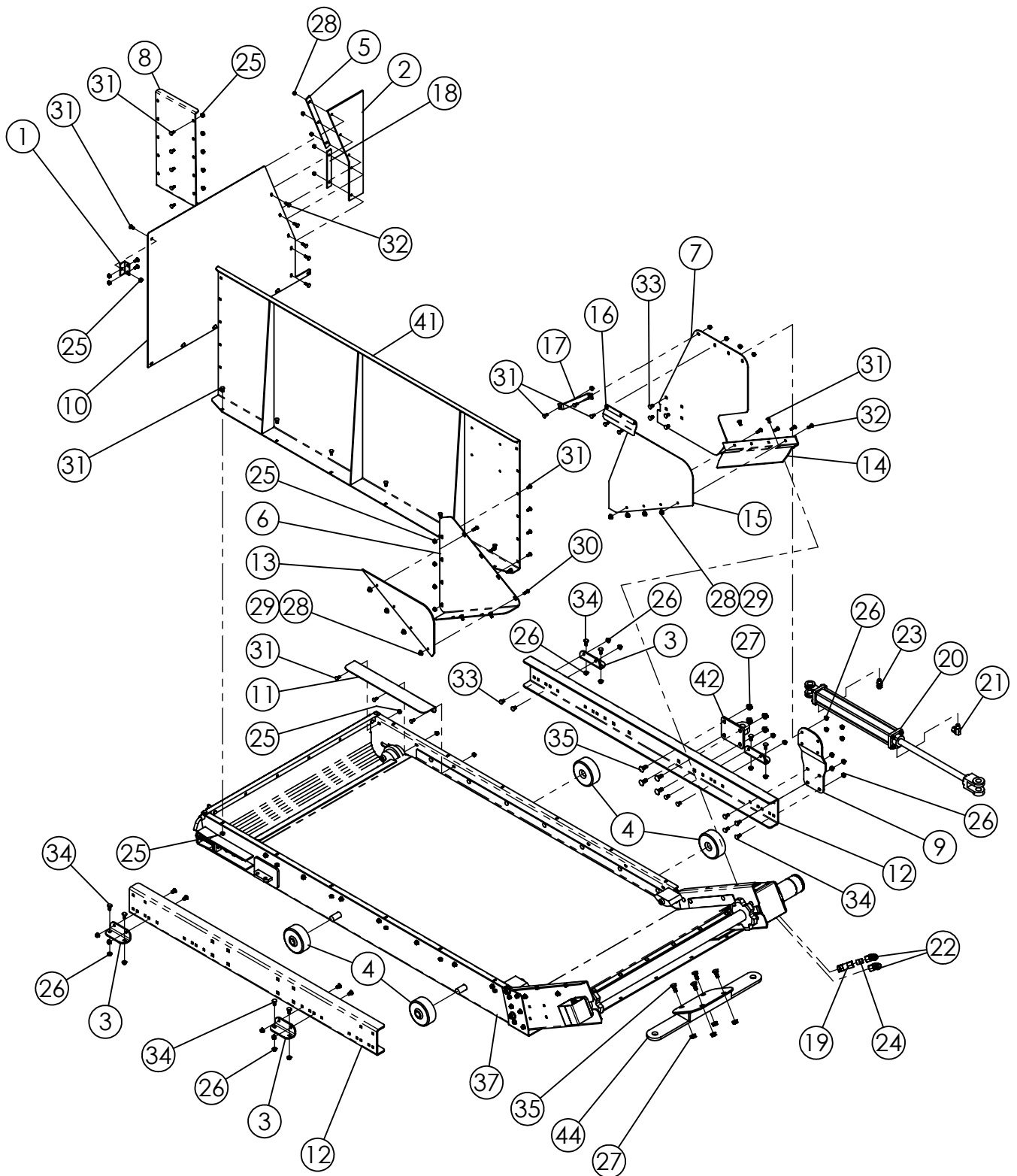
# 1105A-1355A-1505A 42" WIDE FLAT CONVEYOR SLIDE ASSY #760171



# 1105A-1355A-1505A 42" WIDE FLAT CONVEYOR SLIDE ASSY #760171

ITEM #	PART #	DESCRIPTION	QTY
1	161508	PLASTIC IDLER	2
2	161774	DRIVE CHAIN COVER	2
3	161777	CONVEYOR BOLT PLATE	1
4	161780	PLASTIC LINER FLAT CONV	1
5	161783	MOTOR MOUNT TUBE	1
6	161830	CONVEYOR CHAIN HOLD DOWN	2
7	161940	SLIDE CYLINDER BOLT-ON LUG	1
8	162024	PLASTIC LINER HOLD DOWN STRAP	1
9	162074	TENSION BRACKET	2
10	162087	TAPPED TENSIONER BAR	2
11	162094	PLASTIC GLIDE 42"W FLAT CONVEYOR	2
12	320516	COUPLER CHAIN #50-2 RC x 16	1
13	332606	COUPLER SPROCKET, 50B16 x 1"	2
14	340316	FLANGE BEARING 1" 4 BOLT RCJC	2
15	360015	HYDRAULIC MOTOR 17.9 CU IN.	1
16	400107	HEX NUT, 3/8"-16 SERRATED FLANGE	49
17	400114	HEX NUT, 1/2"-13 SERRATED FLANGE #5 PLTD	2
18	400115	FLANGE HEX NUT 5/8"-11 SERRATED #5 PLTD	6
19	400610	HEX JAM NUT 5/8"-11 #5 PLTD	2
20	401105	HEX NUT, 5/16"-18 NYLOC #5 PLTD	6
21	402004	SPRING LOCK WASHER 1/4" PLTD	4
22	402106	EXTERNAL STAR LOCKWASHER 3/8"	4
23	402510	FLAT WASHER 5/8" SAE PLTD	4
24	405601	HHCS 1/4"-20 x 5/8" USS #5 PLTD.	4
25	405652	HHCS 3/8"-16 x 3/4" #5 PLTD	4
26	407021	CHCS 5/16"-18 x 1" #5 PLTD	6
27	407039	CHCS 3/8"-16 x 3/4" #5 PLTD	41
28	407102	CHCS 1/2"-13 x 1-1/2" #5 PLTD	2
29	407411	SHOULDER BOLT, 3/4"D x 3" LG	6
30	407901	HHCS 3/8"-16 X 1" SERRATED #5 PLTD	4
31	407904	HHCS SERRATED 3/8" -16 x 1-1/4" #5 PLTD	4
32	409916	WOODRUFF KEY 1/4" x 1"	1
33	860489	ALL THREAD WA	2
34	860512	BASE CONVEYOR WA 42" WIDE	1
35	860513	CONVEYOR DRIVE SHAFT 42"W	1
36	860516	CONVEYOR PAN WA	1
37	860517	81X CONVEYOR CHAIN WA 42" x 82P	1
38	860538	SHAFT COVER WA	1
39	860565	FLAT CONVEYOR EXTENSION WA	1

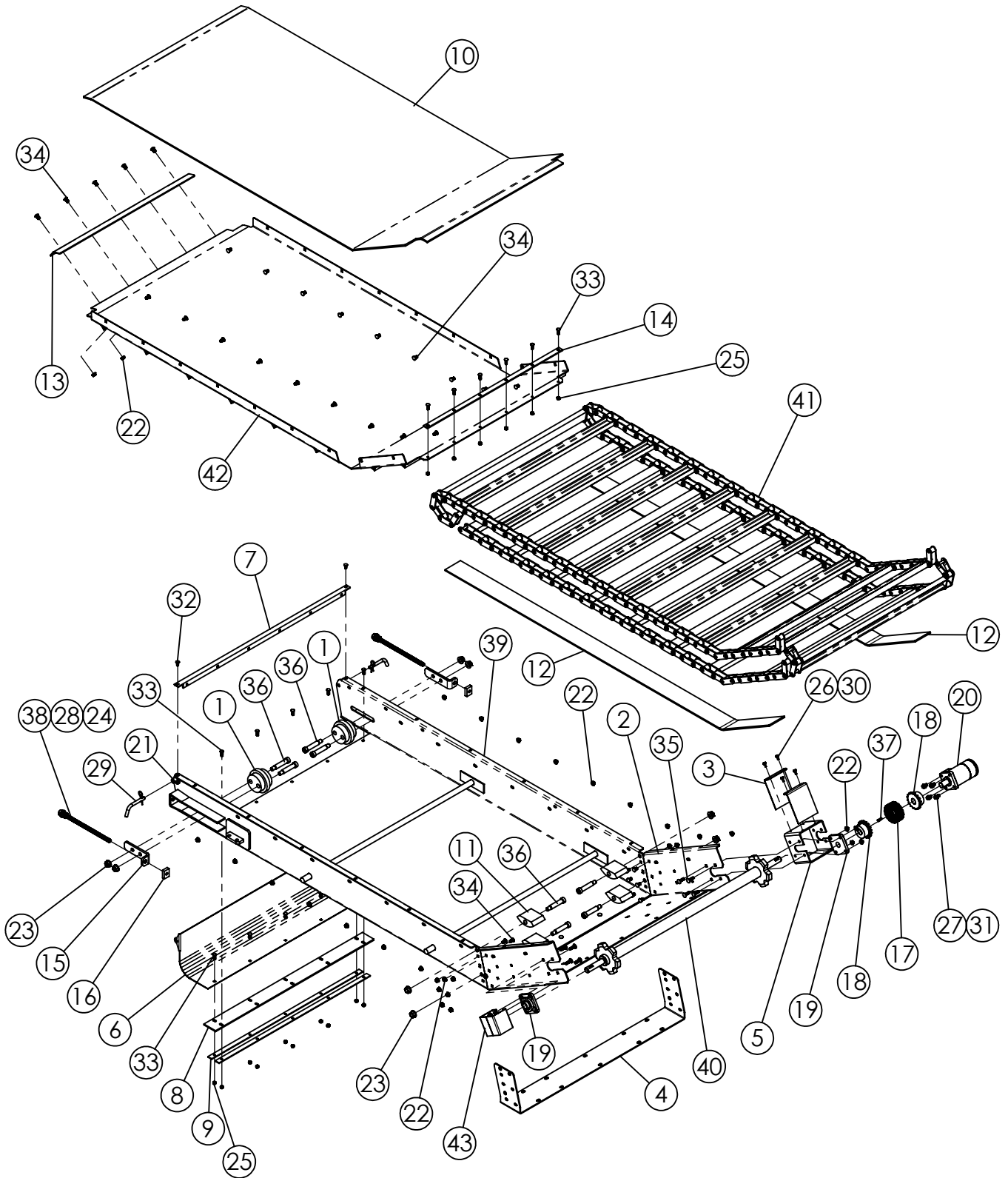
# 1105A-1355A-1505A 42" WIDE INCLINE CONVEYOR ASSY #660245



# 1105A-1355A-1505A 42" WIDE INCLINE CONVEYOR ASSY

ITEM #	PART #	DESCRIPTION	QTY
1	161383	MOUNT ANGLE	1
2	161775	DOGLEG RUBBER SHIELD	1
3	161810	RAIL BOLT PLATE	4
4	161811	CONVEYOR SLIDE ROLLER	4
5	161817	RUBBER SUPPORT PLATE	1
6	161818	DOGLEG EXTENSION SHIELD	1
7	161819	DOGLEG CONVEYOR REAR FILLER	1
8	161820	DOGLEG CONVEYOR REAR FILLER	1
9	161821	CONVEYOR SHIELD BOLT PLATE	1
10	161823	DOGLEG CONVEYOR SIDE SHIELD	1
11	161874	CONVEYOR FLAT FILL PLATE	1
12	161934	CONVEYOR SLIDE RAIL FLAT & DOGLEG	2
13	162038	FRONT PLASTIC EXTENSION	1
14	162066	DOGLEG CONVEYOR CHAIN COVER	1
15	162068	DOGLEG CONVEYOR PLASTIC FILLER	1
16	162069	OFFSET BRACKET	1
17	162073	STIFFNER BRACKET	1
18	183160	SPOUT RUBBER SIDE BAR x 8"	1
19	362240	CHECK VALVE 1/2" FP x 1/2" FP	1
20	364060	HYDRAULIC CYLINDER 2" x 16" 26-1/4" CC	1
21	368020	HYDRAULIC SWIVEL 90° 3/8"MP x 3/8"FP	1
22	368052	HYDRAULIC SWIVEL 7/8"MOR x 1/2"FPS	2
23	368110	STRAIGHT ADAPTER 3/8"MP x 3/8"FP SWIVEL	1
24	368642	HEX NIPPLE 1/2" x 1/2" MP	1
25	400106	HEX NUT, 5/16"-18 SERRATED FLANGE #5 PLTD	36
26	400107	HEX NUT, 3/8-16 SERR FLANGE #5 PLTD	24
27	400114	HEX NUT, 1/2"-13 SERRATED FLANGE #5 PLTD	8
28	401105	HEX NUT, 5/16"-18 NYLOC #5 PLTD	13
29	402405	FLAT WASHER 5/16" MED PLTD	8
30	405628	HHCS 5/16"-18 x 1" #5 Pltd	4
31	407020	CHCS 5/16"-18 x 3/4" #5 PLTD	36
32	407021	CHCS 5/16"-18 x 1" #5 PLTD	9
33	407039	CHCS 3/8"-16 x 3/4" #5 PLTD	12
34	407040	CHCS 3/8"-16 x 1" #5 PLTD	12
35	407101	CHCS 1/2"-13 x 1-1/4" #5 PLTD	8
37	760172	VERT CONV ASSY - DOGLEG SLIDE	1
41	860528	CONVEYOR FRONT SHIELD WA	1
42	860529	SLIDE CYLINDER LUG WA	1
44	860552	DOGLEG CYLINDER MOUNT WA	1

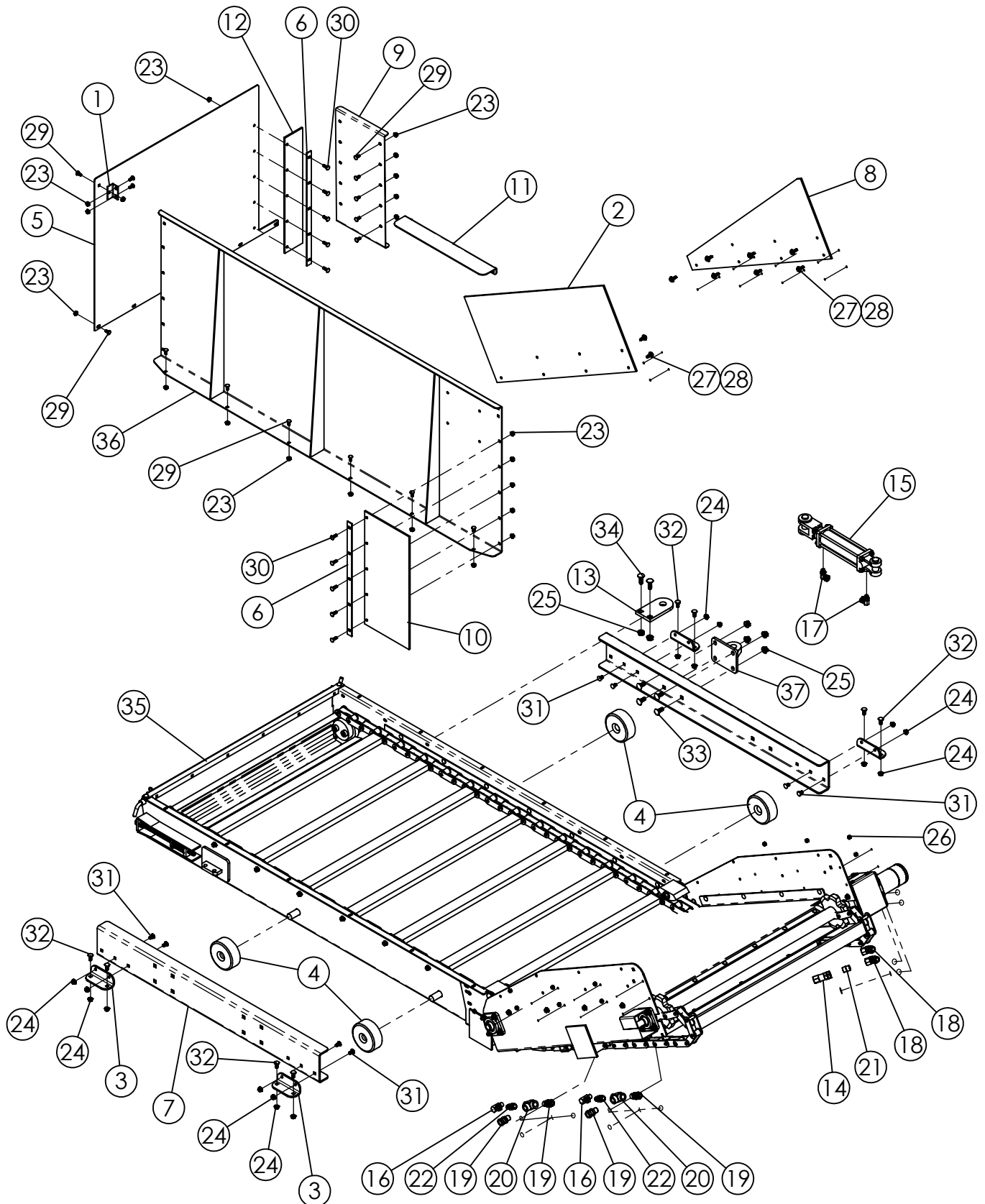
# 1105A-1355A-1505A 42" WIDE INCLINE CONVEYOR SLIDE ASSY # 760172



# 1105A-1355A-1505A 42" WIDE INCLINE CONVEYOR SLIDE ASSY # 760172

ITEM #	PART #	DESCRIPTION	QTY
1	161508	PLASTIC IDLER	2
2	161762	DOGLEG EXTENSION BOLT-ON	1
3	161774	DRIVE CHAIN COVER	2
4	161777	CONVEYOR BOLT PLATE	1
5	161783	MOTOR MOUNT TUBE	1
6	161784	CLEANOUT DOOR 42"W CONVEYOR	1
7	161786	CONVEYOR MOUNT ANGLE	1
8	161787	RUBBER HINGE 42"W CONVEYOR	1
9	161788	HINGE STRAP 42"W CONVEYOR	2
10	161789	PLASTIC LINER 42"W DOGLEG CONVEYOR	1
11	161830	CONVEYOR CHAIN HOLD DOWN	4
12	162022	PLASTIC GLIDE 42"W DOGLEG CONVEYOR	2
13	162024	PLASTIC LINER HOLD DOWN STRAP	1
14	162026	PLASTIC STRAP	1
15	162074	TENSION BRACKET	2
16	162087	TAPPED TENSIONER BAR	2
17	320516	COUPLER CHAIN #50-2 RC x 16	1
18	332606	COUPLER SPROCKET, 50B16 x 1"	2
19	340316	FLANGE BEARING 1" 4 BOLT RCJC	2
20	360015	HYDRAULIC MOTOR 17.9 CU IN.	1
21	400106	HEX NUT, 5/16"-18 SERRATED FLANGE #5 PLTD	2
22	400107	HEX NUT, 3/8-16 SERR FLANGE #5 PLTD	46
23	400115	HEX NUT, 5/8"-11 SERRATED FLANGE #5 PLTD	8
24	400610	HEX JAM NUT, 5/8"-11 #5 PLTD	2
25	401105	HEX NUT, 5/16"-18 NYLOC #5 PLTD	16
26	402004	SPRING LOCK WASHER 1/4" PLTD	4
27	402106	EXTERNAL STAR LOCKWASHER 3/8"	4
28	402510	FLAT WASHER 5/8" SAE PLTD	4
29	404214	PIN, 1/2" x 3",RECEIVER HITCH	2
30	405601	HHCS 1/4"-20 x 5/8" USS #5 PLTD.	4
31	405652	HHCS 3/8"-16 x 3/4" #5 PLTD	4
32	407020	CHCS 5/16"-18 x 3/4" #5 PLTD	2
33	407021	CHCS 5/16"-18 x 1" #5 PLTD	16
34	407039	CHCS 3/8"-16 x 3/4" #5 PLTD	38
35	407041	CHCS 3/8"-16 x 1-1/4" #5 PLTD	8
36	407411	SHOULDER BOLT, 5/8"-11 x 3/4" DIA x 3" LG	8
37	409916	WOODRUFF KEY 1/4" x 1"	1
38	860489	ALL THREAD WA	2
39	860512	BASE CONVEYOR WA 42" WIDE	1
40	860513	CONVEYOR DRIVE SHAFT 42"W	1
41	860520	81X CONVEYOR CHAIN WA 42" x 79P	1
42	860521	VERTICAL DOGLEG CONVEYOR PAN WA	1
43	860538	SHAFT COVER WA	1

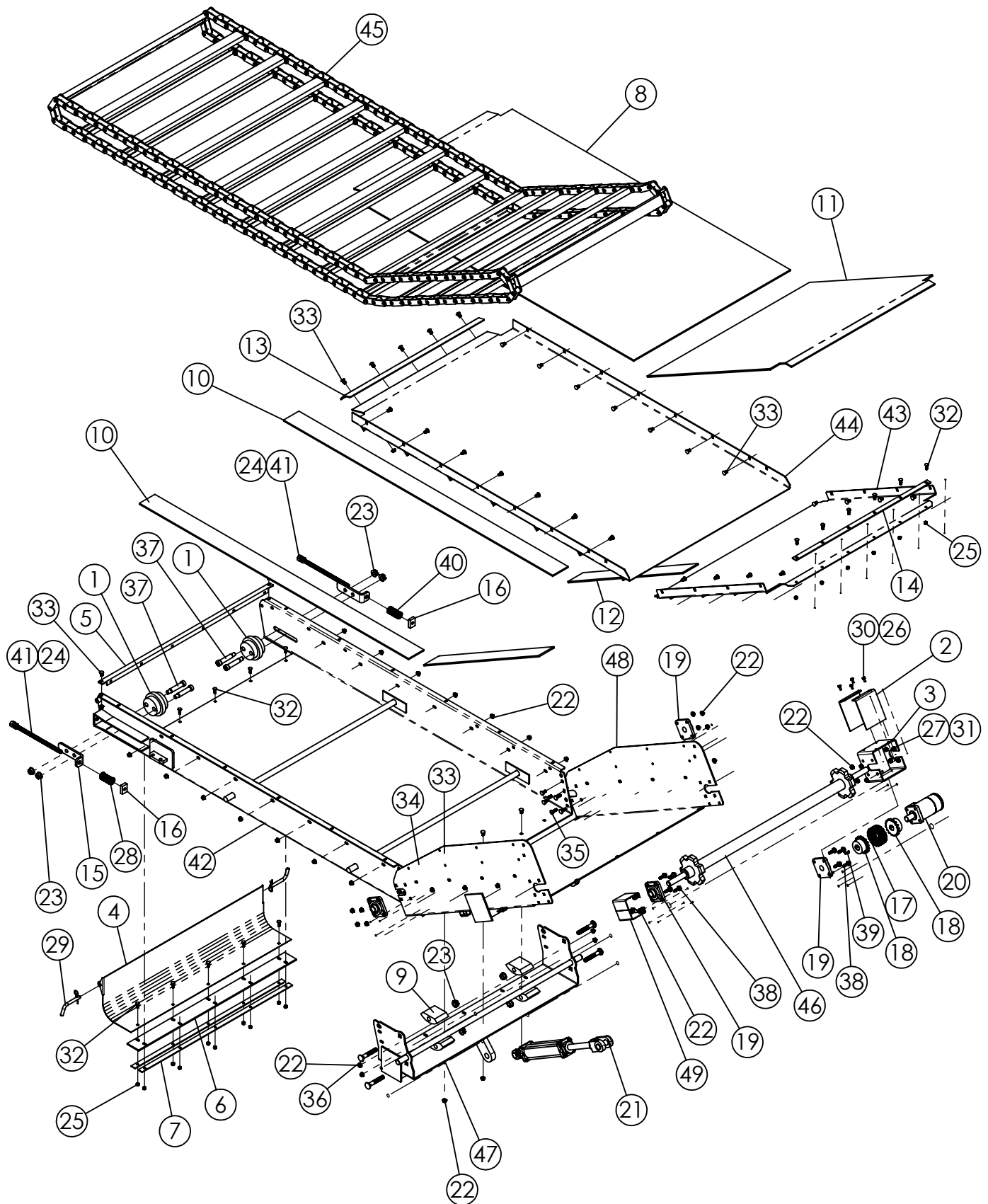
# 1105A-1355A-1505A 42" WIDE ADJ INCLINE CONVEYOR ASSY #660244



# 1105A-1355A-1505A 42" WIDE ADJ INCLINE CONVEYOR ASSY #660244

ITEM #	PART #	DESCRIPTION	QTY
1	161383	MOUNT ANGLE	1
2	161532	CONVEYOR EXTENSION	1
3	161810	RAIL BOLT PLATE	4
4	161811	CONVEYOR SLIDE ROLLER	4
5	161866	SIDE SHIELD ADJUSTABLE CONVEYOR	1
6	161867	RUBBER SUPPORT PLATE	2
7	161868	CONV SLIDE RAIL ADJ CONV	2
8	161871	CONVEYOR EXTENSION	1
9	161872	CONVEYOR SIDE SHIELD	1
10	161873	CONVEYOR RUBBER FILLER	1
11	161874	CONVEYOR FLAT FILL PLATE	1
12	161875	RUBBER CONVEYOR SIDE FILLER	1
13	161940	SLIDE CYLINDER BOLT-ON LUG	1
14	362240	CHECK VALVE 1/2" FP x 1/2" FP	1
15	364054	HYDRAULIC CYLINDER 2" x 6", 16-1/4" CC	1
16	368007	HYDRAULIC SWIVEL 90° 3/8"MP x 3/8"FPS, .109" ORFICE	2
17	368030	HYD SWIVEL 9/16"MOR x 3/8"FPS 90°	2
18	368052	HYDRAULIC SWIVEL 7/8"MOR x 1/2"FPS	2
19	368111	STRAIGHT ADAPTER 1/2" x 1/2"FP SWIVEL	4
20	368609	TEE 1/2"FP x 1/2"FP x 1/2"FP	2
21	368642	HEX NIPPLE 1/2" x 1/2" MP	1
22	368680	STRAIGHT ADAPTOR 1/2" MP x 3/8" MP	2
23	400106	HEX NUT, 5/16"-18 SERRATED FLANGE #5 PLTD	28
24	400107	HEX NUT, 3/8"-16 SERRATED FLANGE	16
25	400114	HEX NUT, 1/2"-13 SERRATED FLANGE #5 PLTD	6
26	401105	HEX NUT, 5/16"-18 NYLOC #5 PLTD	14
27	402405	FLAT WASHER 5/16" MED PLTD	14
28	405628	HHCS 5/16"-18 x 1" #5 Pltd	14
29	407020	CHCS 5/16"-18 x 3/4"	18
30	407021	CHCS 5/16"-18 x 1" #5 PLTD	10
31	407039	CHCS 3/8"-16 x 3/4" #5 PLTD	8
32	407040	CHCS 3/8"-16 x 1" #5 PLTD	8
33	407101	CHCS 1/2"-13 x 1-1/4" #5 PLTD	4
34	407102	CHCS 1/2"-13 x 1-1/2" #5 PLTD	2
35	760173	ADJUSTABLE INCLINE VERTICAL CONVEYOR ASSEMBLY	1
36	860528	CONVEYOR FRONT SHIELD WA	1
37	860529	SLIDE CYLINDER LUG WA	1

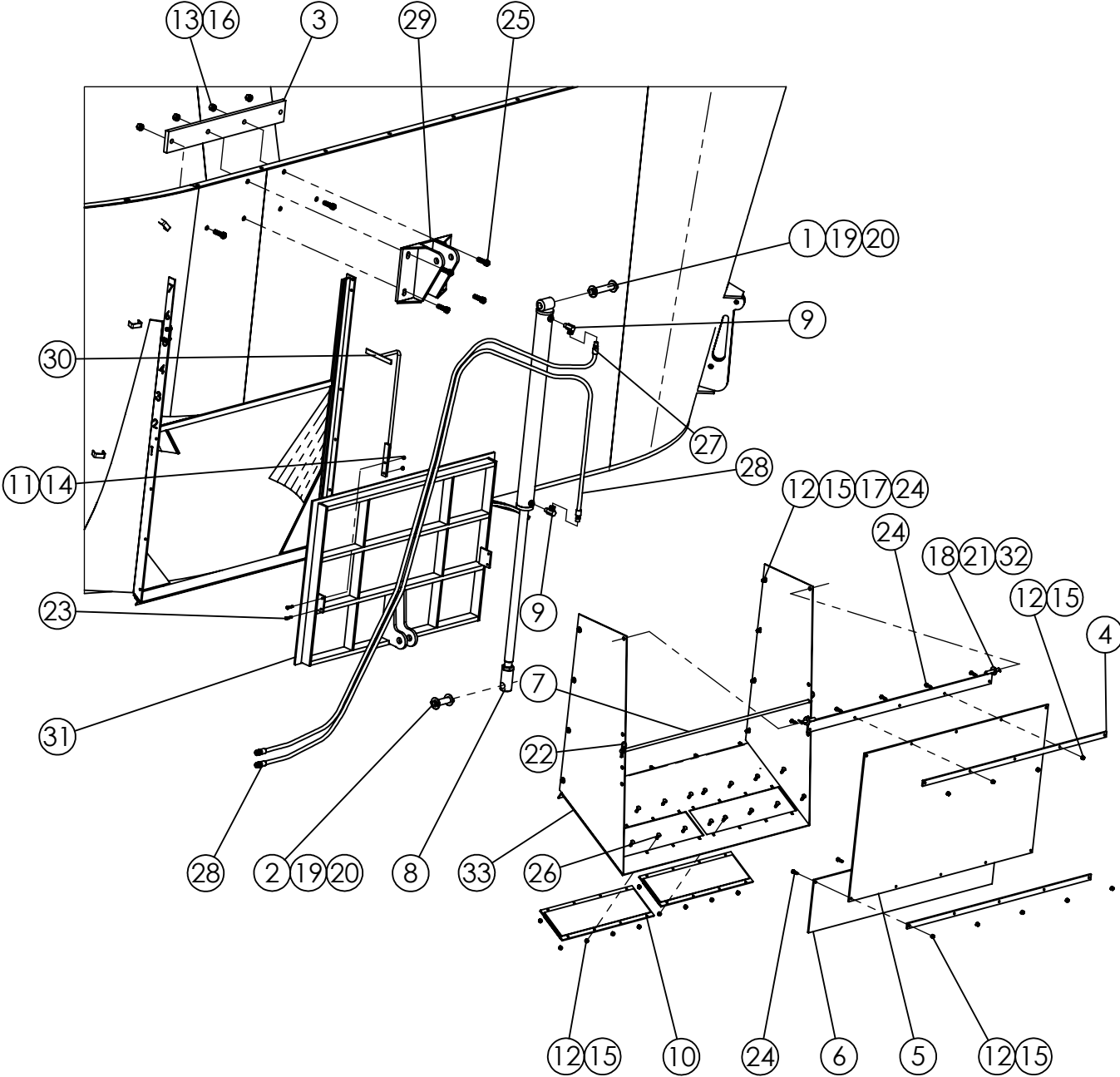
# 1105A-1355A-1505A 42" WIDE ADJ INCLINE SLIDE ASSY # 760173



# 1105A-1355A-1505A 42" WIDE ADJ INCLINE SLIDE ASSY # 760173

ITEM #	PART #	DESCRIPTION	QTY
1	161508	PLASTIC IDLER	2
2	161774	DRIVE CHAIN COVER	2
3	161783	MOTOR MOUNT TUBE	1
4	161784	CLEANOUT DOOR 42"W CONVEYOR	1
5	161786	CONVEYOR MOUNT ANGLE	1
6	161787	RUBBER HINGE 42"W CONV	1
7	161788	HINGE STRAP 42"W CONVEYOR	2
8	161799	PLASTIC LINER 42"W ADJ CONVEYOR	1
9	161830	CONVEYOR CHAIN HOLD DOWN	4
10	161863	CONVEYOR GLIDE STRIP	2
11	161864	PLASTIC LINER 42"W ADJ CONVEYOR	1
12	161865	CONVEYOR GLIDE STRIP	2
13	162024	PLASTIC LINER HOLD DOWN STRAP	1
14	162026	PLASTIC STRAP	1
15	162074	TENSION BRACKET	2
16	162087	TAPPED TENSIONER BAR	2
17	320516	COUPLER CHAIN #50-2 RC x 16	1
18	332606	COUPLER SPROCKET, 5016 x 1"	2
19	340316	FLANGE BEARING 1" 4 BOLT RCJC	4
20	360015	HYDRAULIC MOTOR 17.9 CU IN.	1
21	364055	HYDRAULIC CYLINDER 2" x 8", 20-1/4" CC	1
22	400107	HEX NUT, 3/8"-16 SERRATED FLANGE	52
23	400115	HEX NUT, 5/8"-11 SERRATED FLANGE #5 PLTD	8
24	400610	HEX JAM NUT, 5/8"-11 #5 PLTD	2
25	401105	HEX NUT, 5/16"-18 NYLOC #5 PLTD	16
26	402004	SPRING LOCK WASHER 1/4" PLTD	4
27	402106	EXTERNAL STAR LOCKWASHER 3/8"	4
28	402510	FLAT WASHER 5/8" SAE PLTD	4
29	404214	PIN, 1/2" x 3", RECEIVER HITCH	2
30	405601	HHCS 1/4"-20 x 5/8" USS #5 PLTD.	4
31	405652	HHCS 3/8"-16 x 3/4" #5 PLTD	4
32	407021	CHCS 5/16"-18 x 1" #5 PLTD	16
33	407039	CHCS 3/8"-16 x 3/4" #5 PLTD	32
34	407040	CHCS 3/8"-16 x 1" #5 PLTD	4
35	407041	CHCS 3/8"-16 X 1-1/4" #5 PLTD	8
36	407128	CHCS 5/8" x 4" #5 PLTD	4
37	407411	SHOULDER BOLT, 5/8" THREAD x 3/4" DIA x 3" LG	4
38	407904	HHCS 3/8" -16 x 1-1/4" SERRATED #5 PLTD	8
39	409916	WOODRUFF KEY 1/4" x 1"	1
40	410017	DIE SPRING, 1-1/4" x 4"	2
41	860489	ALL THREAD WA	2
42	860512	BASE CONVEYOR WA 42" WIDE	1
43	860515	ADJUSTABLE CONVEYOR PAN WA 42"W	1
44	860522	ADJUSTABLE CONVEYOR FLAT PAN WA 42"W	1
45	860523	81X CONVEYOR CHAIN WA 42" x 98P	1
46	860524	CONVEYOR DRIVE SHAFT 42"W ADJ	1
47	860525	PIVOT PLATE WA	1
48	860526	PIVOTING CONVEYOR WA	1
49	860538	SHAFT COVER WA	1

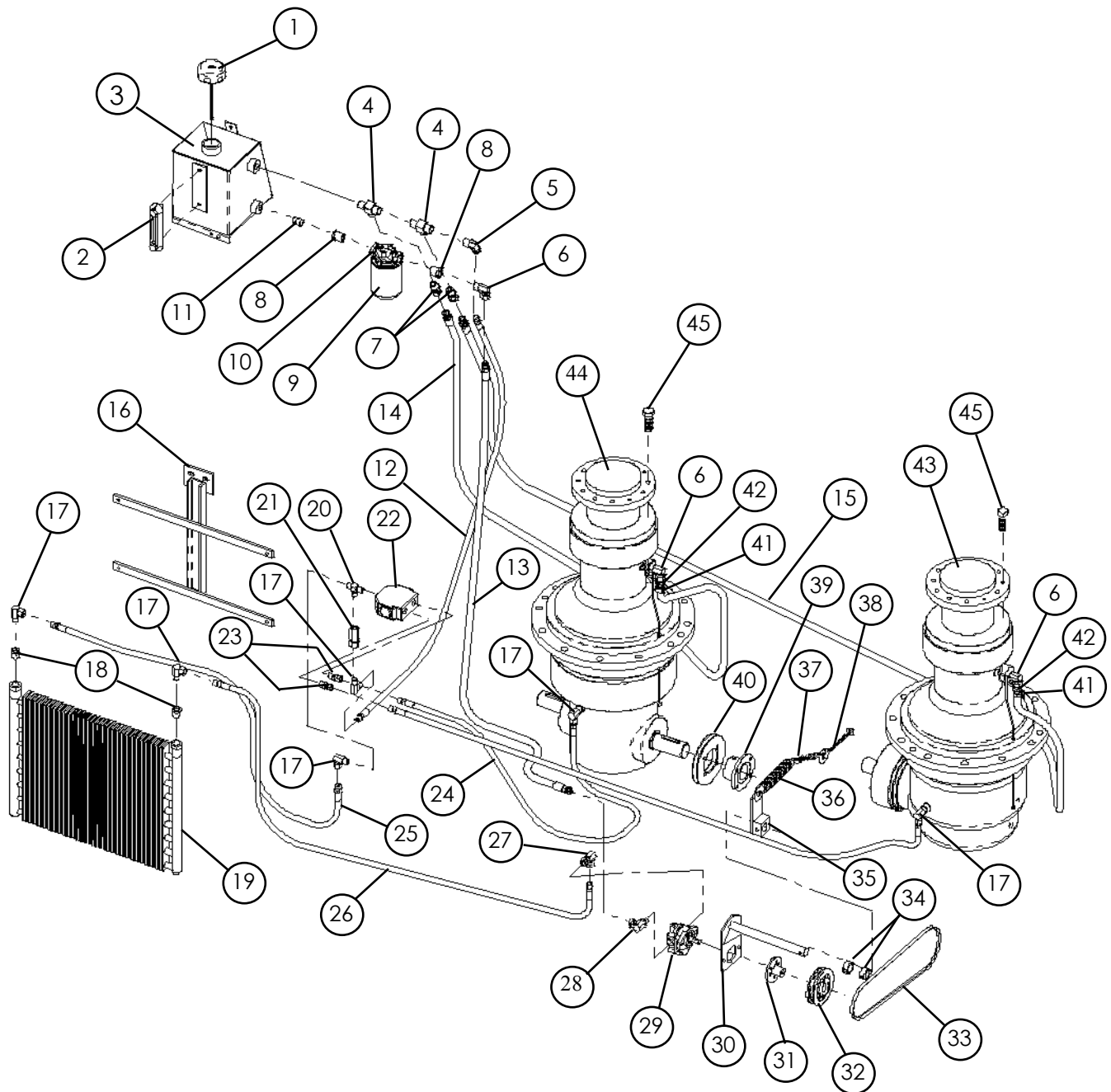
1105A-1355A-1505A TRAILER SIDE DISCHARGE DOOR ASSY



# 1105A-1355A-1505A TRAILER SIDE DISCHARGE DOOR ASSY

ITEM #	PART #	DESCRIPTION	QTY
1	160619	CYLINDER PIN 5 7/8"	1
2	160620	CYLINDER PIN 1" x 4 1/4"	1
3	160710	SUPPORT BAR 29"	1
4	160861	BELT HINGE CLAMP 45 1/2"	2
5	160862	BELT SKIRT 28" X 45 1/2"	1
6	160992	BELT DSCH PLT - 10" x 45 1/2"	1
7	161001	SKIRT ROD 1/2" DIA. x 47"	1
8	364079	CYLINDER 2-1/2" BORE x 1-1/2" ROD x 30-1/4" STROKE	1
9	368007	HYD FITTING 3/8MP x 3/8FP 90 .109 ORF	2
10	375005	ARCO PLATE MAGNET AM 2200	2
11	400204	HEX NUT 1/4"-20 #5 PLTD	2
12	400205	HEX NUT 5/16"-18 #5 PLTD	39
13	400210	HEX NUT 5/8"-11 #5 PLTD	6
14	402004	SPRING LOCK WASHER 1/4" PLTD	2
15	402005	SPRING LOCK WASHER 5/16" MED PLTD	39
16	402010	SPRING LOCK WASHER 5/8" PLTD	6
17	402405	FLAT WASHER 5/16" MED PLTD	8
18	402408	FLAT WASHER 1/2" MED PLTD	2
19	402516	FLAT WASHER, 1" SAE	4
20	404000	COTTER PIN 1/4" x 1 1/2"	4
21	404003	COTTER PIN, 5/32" x 1-1/4" PLTD	2
22	404210	CLIPP PIN 5/32" x 2.94 # 10	2
23	405605	HHCS 1/4"-20 x 1 1/4" #5 PLTD	2
24	405628	HHCS 5/16"-18 x 1" #5 PLTD	23
25	405754	HHCS 5/8"-11 x 2" #5 PLTD	6
26	407021	CHCS 5/16"-18 x 1" #5 PLTD	16
27	781363	HYD HOSE 3/8" x 312"	1
28	781364	HYD HOSE 3/8" x 348"	1
29	860203	CYLINDER BRACKET W.A.	1
30	860218	DOOR MARKER W.A.	1
31	860828	SIDE DISCHARGE DOOR W.A.	1
32	860258	BELT HINGE W.A.	1
33	860294	MAG SKIRT BOTTOM W.A.	1

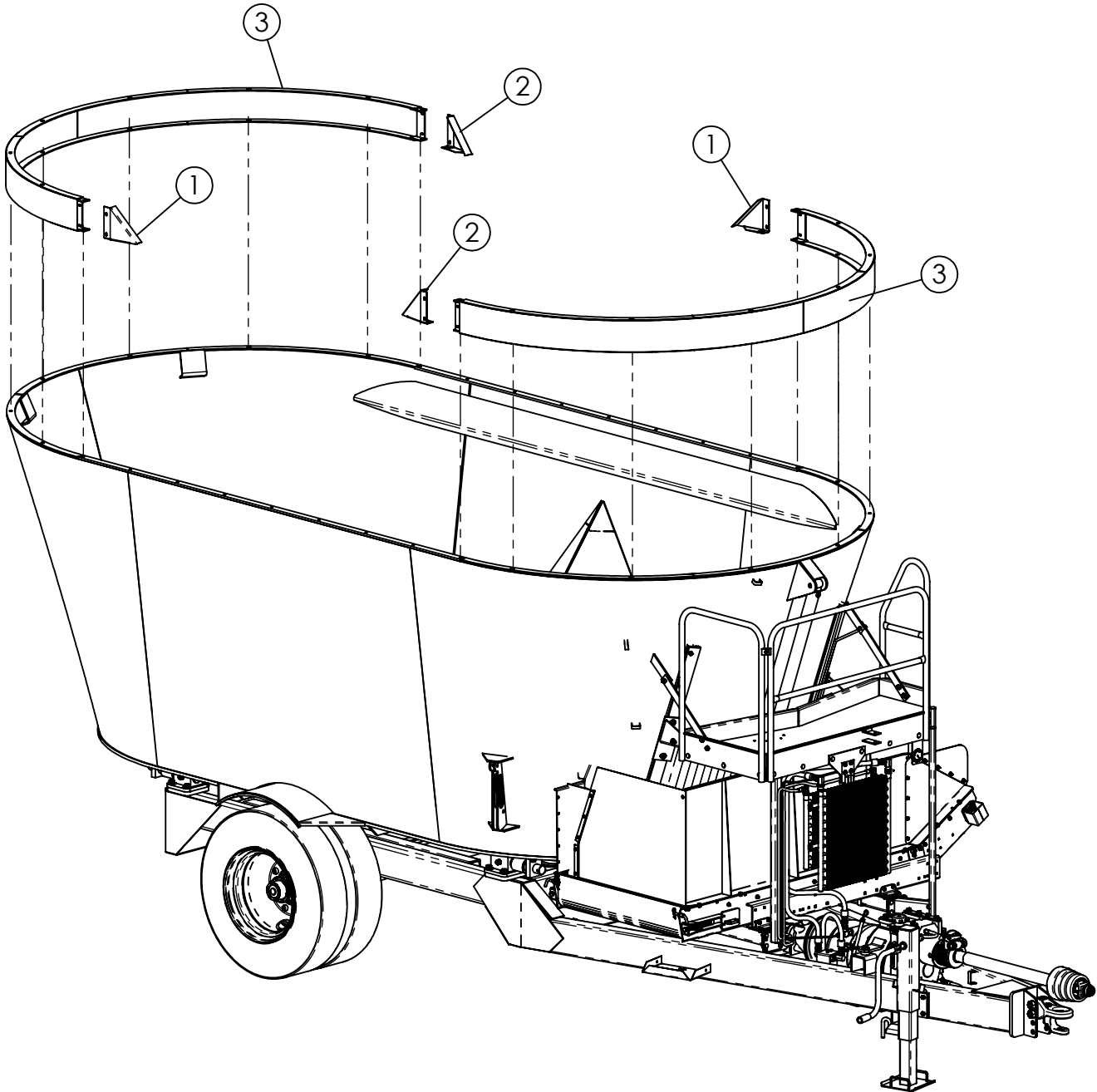
# 1105A-1355A-1505A OLD STYLE GEARBOX CIRCULATION SYSTEM



# 1105A-1355A-1505A OLD STYLE GEARBOX CIRCULATION SYSTEM

REF #	PART #	DESCRIPTION	QTY
1	362549	TANK BREATHER NBF-2016 8" DIP STICK	1
2	362555	5" SIGHT GUAGE	1
3	860064	GEAR BOX RESERVOIR WA	1
4	368608	ADAPTER TEE, 1/2"MP x (2) 1/2"FP	7
5	368028	ADAPTER, 1/2"MP x 3/8"FP, 90° SWIVEL	1
6	368031	ADAPTER, 1/2"MP x 1/2"FP, 90° SWIVEL	3
7	368111	ADAPTER, STRAIGHT 1/2"MP x 1/2"FP, SWIVEL	2
8	310818	BUSHING 3/4"MP x 1/2"FP	2
9	362440	FILTER ELEMENT, 3/4", AE-10	1
10	362403	FILTER HEAD, 3/4"	1
11	368642	HEX NIPPLE, 1/2"MP x 1/2"MP	1
12	781067	HYD. HOSE ASSY. 3/8" x 60", 3/8"MP x 3/8"MP	1
13	781368	HYD. HOSE ASSY. 1/2" x 73", 1/2"MP x 1/2" MP	1
14	781387	HYD. HOSE ASSY. 1/2" x 87", (1) 3/4"MP	1
15	781386	HYD. HOSE ASSY. 1/2" x 174", (1) 1/2"MP	1
16	860208	COOLER HANGER WA	1
17	368020	ADAPTER, 3/8"MP x 3/8"FP, 90° SWIVEL	6
18	368612	BUSHING, 3/4"MP x 3/8"FP, STEEL	2
19	362578	HYD. OIL COOLER, HAYDEN 1290	1
20	368604	ADAPTER, TEE 3/8"FP x (2) 3/8"MP	1
21	362231	CHECK VALVE, 3/8"FP x 3/8"FP, 25 PSI	1
22	362289	FLOW DIVIDER VALVE, PRINCE HYD	1
23	368110	ADAPTER, 3/8"MP x 3/8"FP, STRAIGHT, SWIVEL	2
24	781317	HYD. HOSE ASSY. 3/8" x 48", 3/8"MP x 3/8"MP	1
25	781075	HYD. HOSE ASSY. 3/8" x 180", 3/8"MP x 3/8"MP	1
26	781307	HYD. HOSE ASSY. 3/8" x 154", 3/8"MP x 3/8"MP	1
27	368047	ADAPTER, 7/8"MOR x 1/2"FP, 90° SWIVEL	1
28	368040	ADAPTER, 3/4"MOR x 3/8"FP, 90° SWIVEL	1
29	362010	PUMP, PARKER d05AA1A C C W	1
30	872138	PUMP SWING ARM WA	1
31	336009	BUSHING, SDS 1/2" QD	1
32	324046	BELT SHEAVE, 1B x 4.6 SDS	1
33	325033	V-BELT, AX-33	1
34	412416	SET COLLAR, PLT'D 1"	2
35	860301	CIRCULATION PUMP LEVER ARM WA1	1
36	410008	SPRING-PULL, 1 1/4" x 5 1/4" x .188"	1
37	185562	CHAIN, 2/0 x 22 1/2	1
38	410851	EYE BOLT 3/8" x 6" x 3/4" x 7 1/2" x 4"	1
39	338414	COMP FLANGE 1350 48mm x 14mm (Before Serial #800487644)	1
	338592	COMP FLANGE 1350 45MM (After Serial #800187502)	1
40	160852	DRIVE FLANGE PULLEY, 1350, 6 1/4"	1
41	412360	CLAMP, 1-1/4 RUBBER HOSE	2
42	367088	HOSE STEM, 1/2" x 1/2"MP	2
43	344124	GEAROX, RPRC3250/MN/52.4/48x (Before Serial #800487644)	1
	344151	GEARBOX, COMER PGA 3003/52.16 (After Serial #800187502)	1
44	344125	GEARBOX, RPR2255/MNFR/RA55/9	1
45	407811	HHCS 20mm x 60mm - 10.9 METRIC (Before Serial #800487644)	24
	407823	HHCS m22-1.5 x 60mm GRD10.9 (After Serial #0800187502)2	24

## 1105A-1355A-1505A 8" EXTENSIONS



ITEM #	PART #	DESCRIPTION	QTY.
1	160974	LEFT EXT. END	2
2	160975	RIGHT EXT END	2
3	860285	8" END EXT W.A.	2

