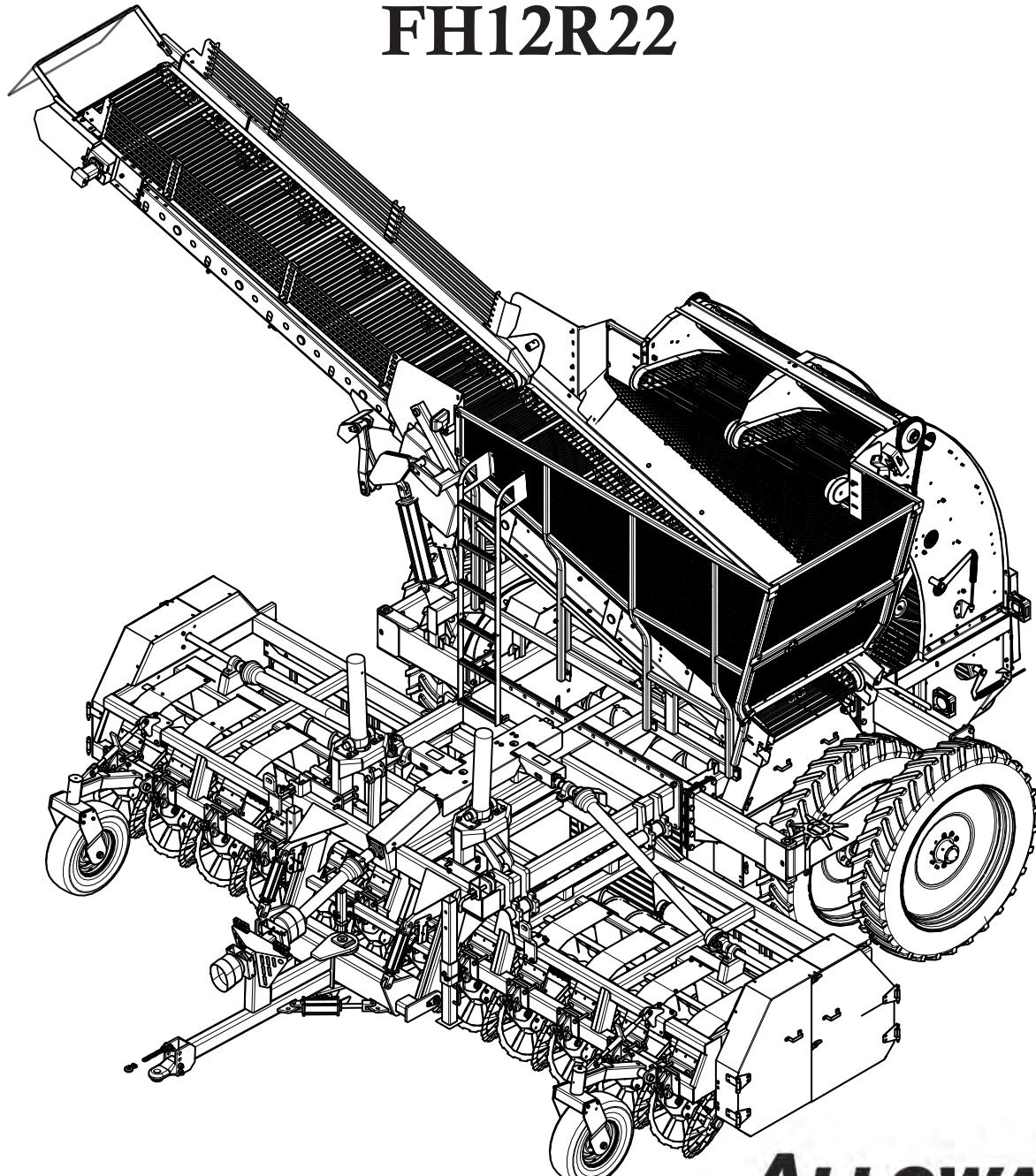


FOLDING BEET HARVESTER

2024
FH12R22



ALLOWAY 

OPERATOR'S MANUAL

TO THE DEALER:

Assembly and proper installation of this product is the responsibility of the Alloway dealer. Read manual instructions and safety rules. Make sure all items on the Dealer's Pre-Delivery and Delivery Check Lists in the Operator's Manual are completed before releasing equipment to the owner.

The dealer must complete the Warranty Registration included in this manual. Both dealer and customer must sign the registration which certifies that all Dealer Check List items have been completed. The dealer is to return the prepaid postage portion to Alloway, give one copy to the customer, and retain one copy.

Note: Warranty credit is subject to this form being completed and returned.

TO THE OWNER:

Read this manual before operating your Alloway equipment. The information presented will prepare you to do a better and safer job. Keep this manual handy for ready reference. Require all operators to read this manual carefully and become acquainted with all the adjustment and operating procedures before attempting to operate. Replacement manuals can be obtained from your dealer.

The equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the unit as specified. Observe all safety information in this manual and safety decals on the equipment.

For service, your authorized Alloway dealer has trained mechanics, genuine Alloway service parts, and the necessary tools and equipment to handle all your needs.

Use only genuine Alloway service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model number and serial number of your equipment in the spaces provided:

Model: _____ **Date of Purchase** _____

Serial Number: (see Safety Decal section for location) _____

Provide this information to your dealer to obtain correct repair parts.

Throughout this manual, the term **IMPORTANT** is used to indicate that failure to observe can cause damage to equipment. The terms **CAUTION**, **WARNING** and **DANGER** are used in conjunction with the Safety-Alert Symbol, (a triangle with an exclamation mark), to indicate the degree of hazard for items of personal safety.



This Safety-Alert Symbol indicates a hazard and means
ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



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



WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed.



CAUTION

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

IMPORTANT

Indicates that failure to observe can cause damage to equipment.

NOTE

Indicates helpful information.

ALLOWAY

TABLE OF CONTENTS

| | |
|-------------------------------------|--------------------|
| INTRODUCTION | Inside Front Cover |
| GENERAL INFORMATION | 1 |
| SPECIFICATIONS | 2 |
| CHECK LISTS | 3 |
| SAFETY RULES | 4 - 8 |
| SAFETY & INSTRUCTIONAL DECALS | 9 - 13 |
| OPERATION | 17 |
| PRE-OPERATION CHECK LIST | 18 |
| FIELD OPERATION | 23 |
| OWNER SERVICE | 31 |
| PARTS INDEX | 45 |
| BOLT TORQUE CHART | 101 |
| ABBREVIATIONS | 102 |
| INDEX | 103 |
| REPLACEMENT PARTS WARRANTY | 104 |
| PRODUCT WARRANTY | Inside Back Cover |

GENERAL INFORMATION

The purpose of this manual is to assist you in operating and maintaining your Beet Harvester. Read it carefully. It furnishes information and instructions that will help you achieve years of dependable performance. These instructions have been compiled from extensive field experience and engineering data. Some information may be general in nature due to unknown and varying operating conditions. However, through experience and these instructions, you should be able to develop procedures suitable to your particular situation.

The illustrations and data used in this manual were current at the time of printing, but due to possible inline production changes, your machine may vary slightly in detail. We reserve the right

to redesign and change the machines as may be necessary without notification.

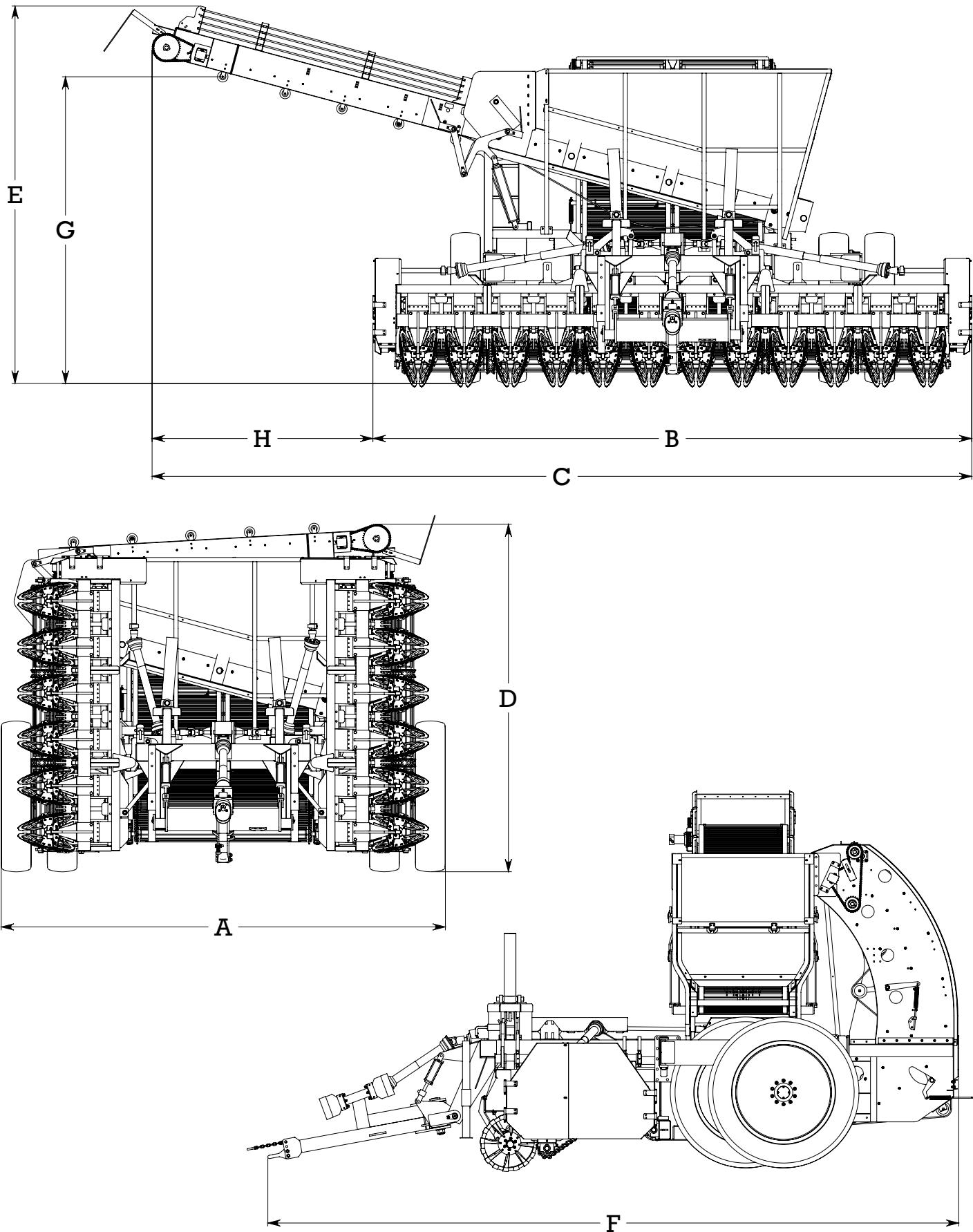


WARNING

- Some illustrations in this manual show the Beet Harvester with safety shields removed to provide a better view. The Beet Harvester should never be operated with any safety shielding removed.

Throughout this manual, references are made to right and left direction. These are determined by standing behind the equipment facing the direction of forward travel.

SPECIFICATIONS



SPECIFICATIONS

| Model | 12 Row 22 |
|---------------------------------|--|
| A. Transport Width | 17 ft 8 in (5.38 m) |
| B. Operation Width | 23 ft 9 in (7.24 m) |
| C. Overall Width | 32 ft 6 in (9.91 m) |
| D. Transport Height | 13 ft 10 in (4.22 m) |
| E. Operation Height | 15 ft 0 in (4.57 m) |
| F. Overall Length | 27 ft 6 in (8.38 m) |
| G. Truck Height Clearance | 12 ft 2 in (3.71 m) |
| H. Truck Width Clearance | 8 ft 9 in (2.67 m) |
| Gearbox | 250 HP |
| Belt Elevator Chain | Dual 42 in (107 cm) |
| 1/2" Elevator Chain Rods | 56 MM Pitch |
| Tank Capacity | 3-1/2 Tons |
| Tractor PTO Speed | 1000 RPM |
| Belt System | 4B Power Band |
| Elevator Drive | Hydraulic |
| Grab Roll Bed | Rock Protected |
| Grab Rolls Adjustable | 3 Full Length - Wing 5 Full Length - Center |
| Grab Roll Option | 2 Stub Rollers - 1 Per Wing |
| Grab Roll Composition | Steel |
| Digger Struts | Fixed or Flexible |
| Tongue Weight (Drawbar) | 10,000 lbs (4,500 kg) |
| Weight Empty | 35,000 lbs (15,900 kg) |
| Wheel Struts | 2 Walking Tandem Struts 2 Stabilizer Struts |
| <u>Main Wheels</u> | 4 |
| Tire Type | 380 / 90R46 Traction |
| Tire Pressure | 35 psi (241 kPa) |
| Tire Ply Rating | 149A8 |
| Tire Load Capacity | 7,150 lbs (3,240 kg) |
| <u>Stabilizer Wheels</u> | 2 |
| Tire Type | 9.5L - 15 Implement |
| Tire Pressure | 44 psi (303 kPa) |
| Tire Ply Rating | 8 |
| Tire Load Capacity | 2,470 lbs (1,120 kg) |

CHECK LISTS

PRE-DELIVERY CHECK LIST (DEALER'S RESPONSIBILITY)

Inspect the equipment thoroughly after assembly to ensure it is set up properly before delivering it to the customer.

The following check lists are a reminder of points to inspect. Check off each item as it is found satisfactory or after proper adjustment is made.

- Check that all safety decals are installed and in good condition. Replace if damaged.
- Check that shields and guards are properly installed and in good condition. Replace if damaged.
- Check that PTO shaft is properly installed.
- Properly attach implement to tractor and make all necessary adjustments.
- Check all bolts to be sure they are tight.
- Check wheel bolts for proper torque.
- Check that all cotter pins and safety pins are properly installed. Replace if damaged.
- Check and grease all lubrication points as identified in "Service, lubrication information."
- Check the level of gearbox fluids before delivery. Service, if required, as specified in the "Service, lubrication information."
- Check that tractor hydraulic reservoir has been serviced and that hydraulic system and all functions have been operated through full cylinder stroke to purge air from system.
- After pressurizing and operating all harvester functions, stop tractor and make sure there are no leaks in the hydraulic system. Follow all safety rules when checking for leaks.

DELIVERY CHECK LIST (DEALER'S RESPONSIBILITY)

- Show customer how to make adjustments and select proper PTO speed.
- Show customer how to make adjustments.
- Instruct customer how to lubricate and explain importance of lubrication.
- Point out the safety decals. Explain their meaning and the need to keep them in place and in good condition. Emphasize the increased safety hazards when instructions are not followed.
- Present Operator's Manual and request that customer and all operators read it before operating equipment. Point out the manual safety rules, explain their meanings and emphasize the increased safety hazards that exist when safety rules are not followed.
- Show customer how to make sure driveline is properly installed and that spring-activated locking pin or collar slides freely and is seated in groove on tractor PTO shaft.
- Show customer the safe, proper procedures to be used when mounting, dismounting, and storing equipment.
- Explain to customer that when equipment is transported on a road or highway, safety devices should be used to give adequate warning to operators of other vehicles.
- Explain to customer that when equipment is transported on a road or highway, a Slow Moving Vehicle (SMV) sign should be used to provide adequate warning to operators of other vehicles.
- Explain to customer that when towing on a public road to comply with all state and local lighting/ marking laws and to use a safety tow chain.
- Make customer aware of optional equipment available so that customer can make proper choices as required.
- Point out all guards and shields. Explain their importance and the safety hazards that exist when not kept in place and in good condition.



SAFETY RULES

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by a single careless act of an operator.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

It has been said "*The best safety device is an informed, careful operator.*" We ask you to be that kind of an operator.

The designed and tested safety of this equipment depends on it being operated within the limitations as explained in this manual.

TRAINING

- Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals are available from dealer or, in the United States. Failure to follow instructions or safety rules can result in serious injury or death.
- If you do not understand any part of this manual and need assistance, see your dealer.
- Know your controls and how to stop engine and attachment quickly in an emergency.
- Operators must be instructed in and be capable of the safe operation of the equipment, its attachments and all controls. Do not allow anyone to operate this equipment without proper instructions.
- Keep hands and body away from pressurized lines. Use paper or cardboard, not body parts to check for leaks. Wear safety goggles. Hydraulic fluid under pressure can easily penetrate skin and will cause serious injury or death.
- Make sure that all operating and service personnel know that in the event hydraulic fluid penetrates skin, it must be surgically removed as soon as possible by a doctor familiar with this form of injury, or gangrene, serious injury or death will result. **CONTACT A PHYSICIAN IMMEDIATELY IF FLUID ENTERS SKIN OR EYES. DO NOT DELAY.**

- Do not allow children or untrained persons to operate equipment.

PREPARATION

- Check that all hardware is tight and properly installed. Always tighten to torque chart specifications.
- Air in hydraulic systems can cause erratic operation and allows loads or equipment components to drop unexpectedly. Before operating or allowing anyone to approach the equipment, purge any air in the system by operating all hydraulic functions several times after connecting equipment, connecting hoses, or doing any hydraulic maintenance.
- Make sure all hydraulic hoses, fittings and valves are in good condition and not leaking before starting power unit or using equipment. Check and route hoses carefully to prevent damage. Hoses must not be twisted, bent sharply, kinked, frayed, pinched, or come into contact with any moving parts. Operate moveable components through full operational range to check clearances. Replace any damaged hoses immediately.
- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing and head.
- Ensure implement is properly attached, adjusted and in good operating condition.
- Make sure spring-activated locking pin or collar slides freely and is seated firmly in tractor PTO spline groove.
- Before starting tractor, check all equipment driveline guards for damage and make sure they rotate freely on all drivelines. Replace any damaged guards. If guards do not rotate freely on drivelines, repair and replace bearings before operating.

(Safety Rules continued on next page)



SAFETY RULES

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



(Safety Rules continued from previous page)

- Power unit must be equipped with ROPS or ROPS CAB and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS systems in "locked up" position at all times.
- Connect PTO driveline directly to tractor PTO shaft. Never use adapter sleeves or adapter shafts. Adapters can cause driveline failures due to incorrect spline or incorrect operating length and result in personal injury or death.
- Remove accumulated debris from this equipment, tractor and engine to avoid fire hazard.
- Ensure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)
- Ensure shields and guards are properly installed and in good condition. Replace if damaged.
- A minimum 20% of tractor and equipment weight must be on tractor front wheels with attachments in transport position. Without this weight, tractor could tip over causing personal injury or death. The weight may be attained with a loader, front wheel weights, ballast in tires or front tractor weights. When attaining the minimum 20% weight on the front wheels, you must not exceed the Roll Over Protection Structure (ROPS) weight certification. Weigh the tractor and equipment. Do not estimate.
- Make sure hydraulic hoses and cylinders are fully purged of air before operating. Keep all persons away and fill the system by raising and lowering all functions several times. Air in the system can allow components to fall unexpectedly.
- Never go underneath equipment lowered to the ground or raised, unless it is properly blocked and secured. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death. Follow Operator's Manual instructions for working underneath and blocking requirements, or have work done by a qualified dealer.
- Do not operate equipment while under the influence of alcohol or drugs.
- Operate only in daylight or good artificial light.
- Avoid contact with electrical wires.
- Keep hands, feet, hair and clothing away from equipment while engine is running. Stay clear of all moving parts.
- Always comply with all state and local lighting and marking requirements.
- No riders are allowed on equipment.
- Power unit must be equipped with ROPS or ROPS CAB and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS systems in "locked up" position at all times.
- Always sit in tractor seat when operating controls or starting engine. Securely fasten seat belt, place transmission in neutral, engage brake and ensure all other controls are disengaged before starting tractor engine.
- Operate tractor PTO at RPM speed stated in "Specifications" section.

OPERATIONAL SAFETY

- Do not allow other people in the area when operating, attaching, removing, assembling or servicing equipment.
- Keep bystanders away from equipment.

- Do not operate tractor PTO during transport.
- Look down and to the rear and make sure area is clear before operating in reverse.
- Do not operate on steep slopes.

(Safety Rules continued on next page)



SAFETY RULES

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



(Safety Rules continued from previous page)

- Operate only in daylight or good artificial light.
- Avoid contact with electrical wires.
- Keep hands, feet, hair and clothing away from equipment while engine is running. Stay clear of all moving parts.
- Always comply with all state and local lighting and marking requirements.
- No riders are allowed on equipment.
- Power unit must be equipped with ROPS or ROPS CAB and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS systems in "locked up" position at all times.
- Always sit in tractor seat when operating controls or starting engine. Securely fasten seat belt, place transmission in neutral, engage brake and ensure all other controls are disengaged before starting tractor engine.
- Operate tractor PTO at RPM speed stated in "Specifications" section.
- Do not operate tractor PTO during transport.
- Look down and to the rear and make sure area is clear before operating in reverse.
- Do not operate on steep slopes.
- Do not stop, start or change directions suddenly on slopes.
- Watch for hidden hazards on the terrain during operation.
- Stop tractor and implement immediately upon striking an obstruction. Turn off engine, remove key, inspect and repair any damage before resuming operation.
- Truck boom lock must be engaged when truck boom is in operating position. Do not operate unloader conveyor unless boom lock is engaged and in good repair. Hydraulic system

leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.

- Always connect safety chain from implement to towing vehicle when transporting.
- **AVOID INJURY OR DEATH FROM POWER LINES:**
 - Stay away from power lines.
 - Electrocution can occur without direct contact.
 - Check clearances before raising implement.
 - Do not leave the operator's seat if any part of the tractor or implement contacts electric lines.
- Before dismounting tractor, disengage tractor PTO power to implement, lower front lift cylinders so that lifter wheels are on the ground. Operate valve control levers to release any hydraulic pressure. Stop engine, set parking brake, remove key and unfasten seat belt.
- Before performing any service or maintenance, disengage power to implement, lower front lift cylinders so that lifter wheels are on the ground, lower truck boom, lower 3-point hitch. Operate valve control levers to release any hydraulic pressure. Stop engine, set parking brake, remove key and unfasten seat belt. Disconnect driveline from tractor PTO. Chock (block) front and rear of implement wheels.
- Before working underneath a raised implement, read and follow all operator's manual instructions and safety rules. Implement must be attached to tractor, lift cylinder locks must be installed, and lift cylinders lowered against locks. Hydraulic system leak down, hydraulic system failures, or movement of control levers can cause equipment to drop unexpectedly and cause severe injury or death.

(Safety Rules continued on next page)



SAFETY RULES

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



(Safety Rules continued from previous page)

MAINTENANCE SAFETY

- Service and maintenance work not covered in OWNER SERVICE must be done by a qualified dealership. Special skills, tools and safety procedures may be required. Failure to follow these instructions can result in serious injury or death.
- Before dismounting tractor, disengage tractor PTO power to implement, lower front lift cylinders so that lifter wheels are on the ground. Operate valve control levers to release any hydraulic pressure. Stop engine, set parking brake, remove key and unfasten seat belt.
- Before performing any service or maintenance, disengage power to implement, lower front lift cylinders so that lifter wheels are on the ground, lower truck boom, lower 3-point hitch. Operate valve control levers to release any hydraulic pressure. Stop engine, set parking brake, remove key and unfasten seat belt. Disconnect driveline from tractor PTO. Chock (block) front and rear of implement wheels.
- Before working underneath a raised implement, read and follow all operator's manual instructions and safety rules. Implement must be attached to tractor, lift cylinder locks must be installed, and lift cylinders lowered against locks. Hydraulic system leak down, hydraulic system failures, or movement of control levers can cause equipment to drop unexpectedly and cause severe injury or death.
- Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.
- Before performing any maintenance on the beet harvester. Do not work in or under the holding tank with the tank bottom in the raised (unload) position. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.
- Before performing any maintenance on the beet harvester, the truck boom must be fully lowered into the transport position. Do not work on harvester with truck boom in any intermediate position. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.
- Your dealer can supply original equipment hydraulic accessories and repair parts. Substitute parts may not meet original equipment specifications and may be dangerous.
- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing and head.
- Do not allow other people in the area when operating, attaching, removing, assembling or servicing equipment.
- Never go underneath equipment lowered to the ground or raised, unless it is properly blocked and secured. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death. Follow Operator's Manual instructions for working underneath and blocking requirements, or have work done by a qualified dealer.
- Ensure implement is properly attached, adjusted and in good operating condition.
- Never perform service or maintenance with engine running.
- Make sure hydraulic hoses and cylinders are fully purged of air before operating. Keep all persons away and fill the system by raising and lowering all functions several times. Air in the system can allow components to fall unexpectedly.
- Keep all persons away from operator control area while performing adjustments, service or maintenance.

(Safety Rules continued on next page)



SAFETY RULES

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



(Safety Rules continued from previous page)

- Make certain all movement of implement components has stopped before approaching for service.
- Tighten all bolts, nuts and screws to torque chart specifications. Check that all cotter pins are installed securely to ensure equipment is in a safe condition before operating.
- Ensure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)
- Ensure shields and guards are properly installed and in good condition. Replace if damaged.
- Do not disconnect hydraulic lines until engine is stopped, tractor is properly secured, equipment and all components are lowered to the ground, and system pressure is released by operating all valve control levers.

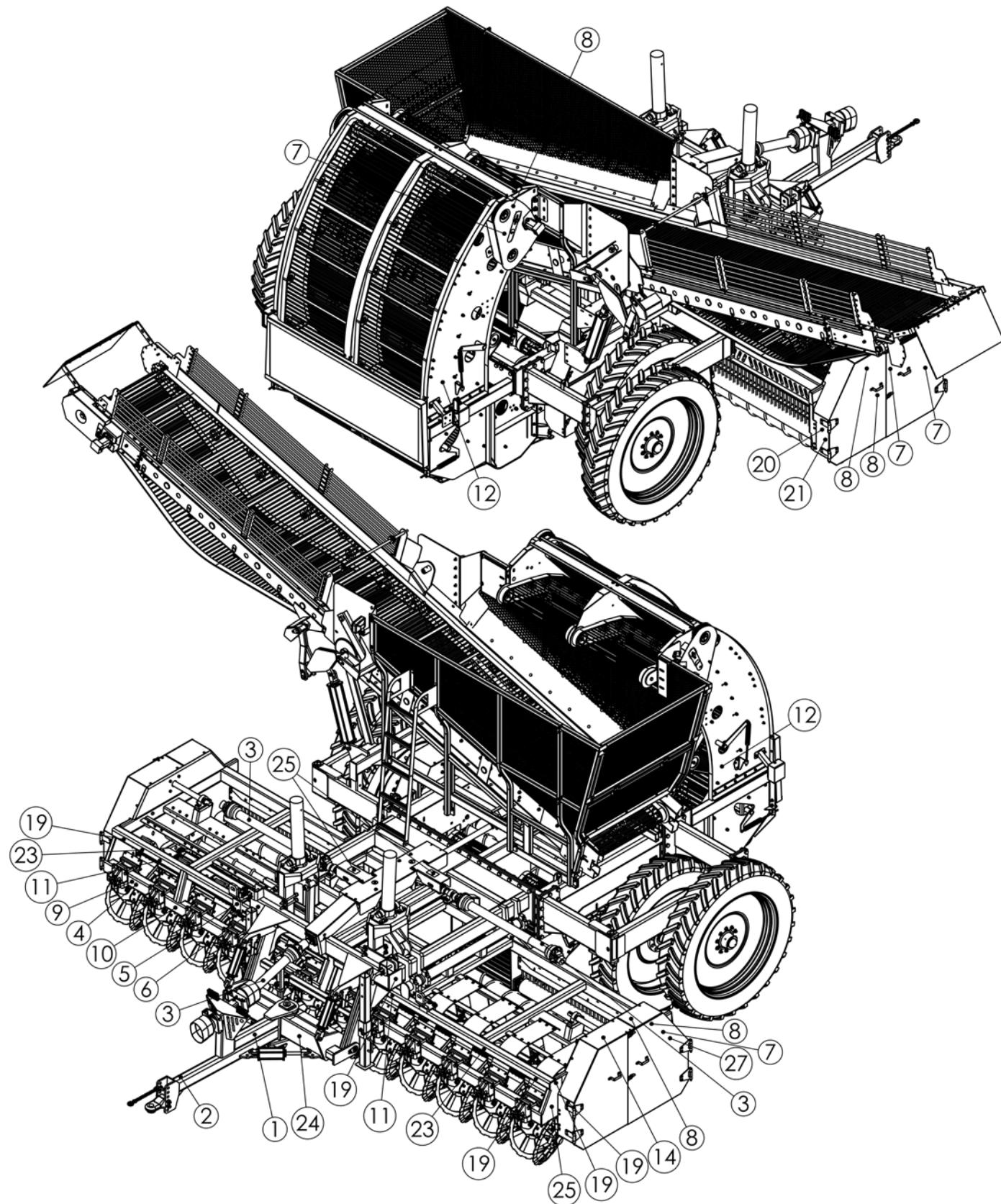
STORAGE

- For storage, disengage tractor PTO power to harvester, lower front lift cylinders so that lifter wheels are on the ground, lower truck boom, lower 3-point hitch. Operate tractor valve control levers to release any hydraulic pressure. Stop engine, set parking brake, remove key and unfasten seat belt. Remove driveline from tractor PTO. Chock (block) front and rear of harvester wheels.
- Keep children and bystanders away from storage area.



SAFETY & INSTRUCTIONAL DECALS

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!
Replace Immediately If Damaged!



(Safety Decals continued on next page)



SAFETY & INSTRUCTIONAL DECALS

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Replace Immediately If Damaged!



(Safety Decals continued from previous page)



1. 506-3-0196 Rotating Driveline Warning



2. 700-3-0519 PTO Speed Warning



4. 200-3-1366 Serial Number Tag



3. 903-17456 Driveline Safety Sign



5. 700-3-0494 Fall Hazard Warning

(Safety Decals continued on next page)



SAFETY & INSTRUCTIONAL DECALS

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Replace Immediately If Damaged!



(Safety Decals continued from previous page)

⚠ WARNING

TO AVOID SERIOUS INJURY OR DEATH:

- Read Operator's Manual before operating, servicing or repairing equipment. Follow all safety rules and instructions. (Manuals are available from dealer or, in the United States and Canada, call 1-800-319-6637.)
- Keep all guards in place, properly secured and in good condition. Replace if damaged.
- Operate from tractor seat only.
- Do not allow any other persons in the area when operating.
- Before dismounting tractor:
 - Disengage PTO.
 - Lower equipment and all raised components.
 - Stop engine, remove key and engage brake.
 - Operate hydraulic valve levers to release any pressure.
 - Allow no children or untrained persons to operate the equipment.

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SERIOUS INJURY OR DEATH.

PN 700-3-0493

⚠ WARNING

ROTATING DRIVE HAZARDS

- Before opening drive guard:
 - Disengage PTO drive,
 - Lower equipment to ground,
 - Stop engine, remove key and engage brake,
 - Operate valve levers to release any hydraulic pressure,
 - Wait for all rotation to stop,
 - Disconnect driveline from tractor PTO.
- Before starting tractor:
 - Close drive cover and secure,
 - Keep guard in good condition.

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SERIOUS INJURY OR DEATH.

7. 700-3-0495 Rotating Drive Hazard



PN 700-3-0495

6. 700-3-0493 Read Manual Warning

⚠ DANGER

SHIELD MISSING

DO NOT OPERATE - PUT SHIELD ON

18869-B

8. 506-3-0194 Shield Missing Warning



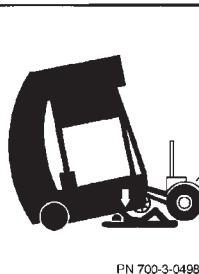
506-3-0195

⚠ WARNING

HIGH PRESSURE HYDRAULIC OIL LEAKS CAN PENETRATE SKIN RESULTING IN SERIOUS INJURY, GANGRENE OR DEATH.

- Check for leaks with cardboard; never use hand.
- Before loosening fittings: lower load, release pressure, and be sure oil is cool.
- Consult physician immediately if skin penetration occurs.

9. 506-3-0195 Hydraulic Pressure Warning



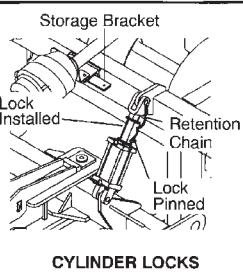
PN 700-3-0498

⚠ WARNING

RAISED EQUIPMENT CAN DROP AND CRUSH.

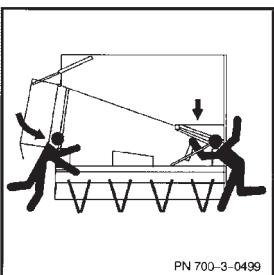
- Install both cylinder locks before transporting or working underneath raised harvester.
- Locks must be installed correctly, kept in good condition, and stored on harvester.
- Read and follow manual instructions.

FAILURE TO FOLLOW INSTRUCTIONS CAN RESULT IN SERIOUS INJURY OR DEATH.



CYLINDER LOCKS

10. 700-3-0498 Cylinder Lock Warning



PN 700-3-0499

⚠ WARNING

RAISED EQUIPMENT CAN DROP AND CRUSH.

- Truck boom and holding tank must be lowered before leaving tractor, or before servicing or storing harvester.
- Lowering components prevents crushing from hydraulic leak down, hydraulic system failures, movement of control levers or mechanical component failures.

FAILURE TO FOLLOW INSTRUCTIONS CAN RESULT IN SERIOUS INJURY OR DEATH.

11. 700-3-0499 Raised Equipment Warning



PN 700-3-0497

⚠ WARNING

KEEP AWAY FROM ELEVATOR CHAIN

- Never use service access holes while equipment is running.
- Before servicing elevator chain, tractor must be shut off and PTO shaft disconnected from tractor.

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SERIOUS INJURY OR DEATH.

12. 700-3-0497 Elevator Chain Warning

(Safety Decals continued on next page)



SAFETY & INSTRUCTIONAL DECALS

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Replace Immediately If Damaged!



(Safety Decals continued from previous page)



13. 500-3-1696 SMV Sign

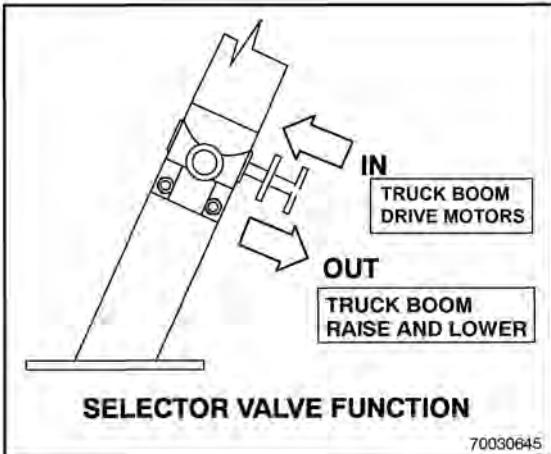
BOOM LOCK MUST BE ENGAGED WHEN TRUCK BOOM IS RAISED TO OPERATING POSITION:

1. Read manual and follow all instructions and safety rules.
2. Lock pin must be in lowered position.
3. Hydraulically raise truck boom.
4. Boom lock must fully rotate into engaged position as shown.
5. Check and do not operate unless boom lock is fully engaged and in good repair.

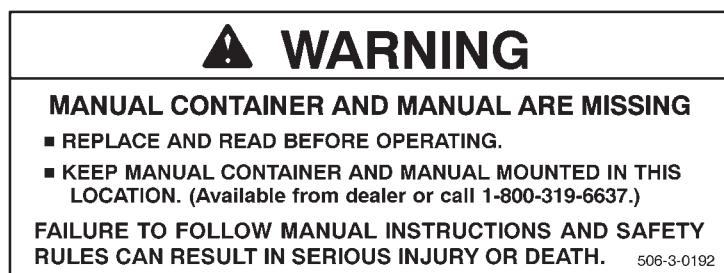
BOOM LOCK MUST BE RELEASED BEFORE TRUCK BOOM CAN BE LOWERED:

1. Read manual and follow all instructions and safety rules.
2. Hydraulically raise truck boom to full up position to remove boom weight from boom lock.
3. Stand behind truck boom and raise lock pin handle to raised position as shown.
4. Hydraulically lower truck boom to transport position.
5. The lock pin will automatically reset to the lowered position as the truck boom is lowered. If lock pin does not reset, have unit repaired before operating.

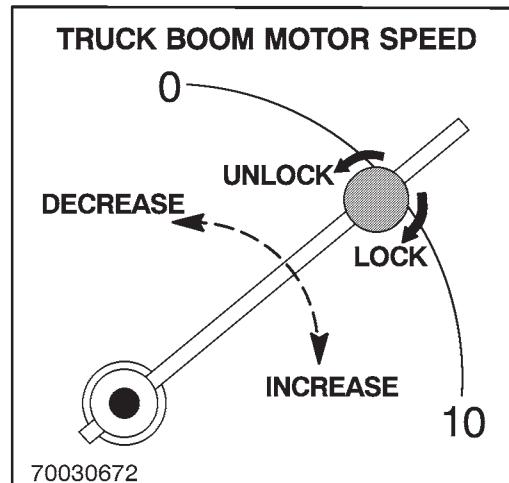
15. 700-3-0644 Boom Lock Warning



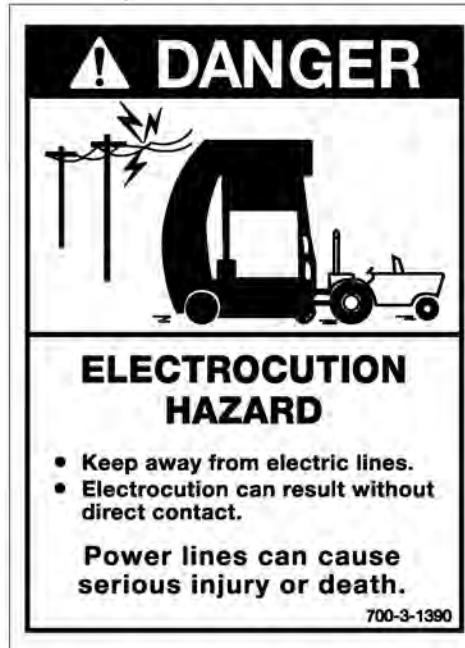
16. 700-3-0645 Selector Valve Function



14. 506-3-0192 Manual Container Warning



17. 700-3-0672 Rear Elevator Motor Speed



18. 700-3-1390 Electrocution Hazard

(Safety Decals continued on next page)



SAFETY & INSTRUCTIONAL DECALS

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Replace Immediately If Damaged!



(Safety Decals continued from previous page)



19. 200-3-4004 Amber Reflector 9 x 2



20. 200-3-4034 Orange Fluorescent Reflector 9 x 2



21. 200-3-4005 Red Reflector 9 x 2



22. 506-3-0195 High - Pressure Fluid Hazard



23. 902-15101 Alloway Standard Logo

| CAUTION | PRECAUCION |
|--|---|
| <ol style="list-style-type: none"> 1. Read Operator's Manual before starting. 2. Stop tractor engine, place all controls in neutral, turn machine to the ground, set parking brake, remove keys, lock the well for all moving parts to stop before servicing, adjusting, repairing, or unplugging. 3. Keep all guards and access doors closed and secured before operating. 4. Keep hands, feet, hair, and clothing away from moving parts. 5. Do not allow riders. 6. Do not enter rotor area when engine is running. 7. Never exceed a safe travel speed when transporting. 8. Use hazard flashers when transporting. 9. Use drawbar pin with retainer and attach safety pin. 10. Wear appropriate hearing protection for prolonged exposure to excessive noise. 11. Review safety instructions annually. | <ol style="list-style-type: none"> 1. Lea el Manual del Operario antes de arrancar. 2. Pare el motor del tractor, ponga todos los controles en neutral, haga que la máquina apunte a la tierra, coloque el freno de estacionamiento, quite la llave del interruptor, y espere a que todas las piezas móviles hayan parado antes de dar servicio, hacer ajustes, reparaciones, o de desatascar. 3. Mantenga cerrados y asegurados todos los protectores y las portátilas antes de poner a funcionar la máquina. 4. Mantenga retirados de las piezas móviles, las manos, los pies, el pelo, y la ropa. 5. No permita que nadie vaya con usted en la máquina. 6. No entre en el área del rotor mientras el motor está en marcha. 7. Nunca exceda la velocidad segura cuando viaja con la máquina. 8. Use luces intermitentes de aviso cuando viaja con la máquina. 9. Use el pasador de la barra de tirar con fiador y enganche la cadena de seguridad. 10. Use un protector apropiado para los oídos cuando esté expuesto a ruido excesivo por un tiempo prolongado. 11. Revise anualmente las instrucciones de seguridad. |

24. 500-3-0977 Caution Manual Warning



25. 100-3-1367 Safety Guard



26. 507-3-0432 Alloway Standard Circular Large w/ Short Striping



27. 902-15100 Alloway Standard Circular Large w/ Long Striping

OPERATION

Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by a single careless act of an operator.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

It has been said "*The best safety device is an informed, careful operator.*" We ask you to be that kind of an operator.

you must not exceed the Roll Over Protection Structure (ROPS) weight certification. Weigh the tractor and equipment. Do not estimate.



WARNING

- Ensure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)
- Ensure shields and guards are properly installed and in good condition. Replace if damaged.
- Do not allow other people in the area when operating, attaching, removing, assembling or servicing equipment.

■ Keep bystanders away from equipment.

■ Never go underneath equipment lowered to the ground or raised, unless it is properly blocked and secured. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death. Follow Operator's Manual instructions for working underneath and blocking requirements, or have work done by a qualified dealer.



WARNING

- Operators must be instructed in and be capable of the safe operation of the equipment, its attachments and all controls. Do not allow anyone to operate this equipment without proper instructions.
- Do not allow children or untrained persons to operate equipment.



CAUTION

- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing.



WARNING

- Make sure spring-activated locking pin or collar slides freely and is seated firmly in tractor PTO spline groove.
- Before starting tractor, check all equipment driveline guards for damage and make sure they rotate freely on all drive-lines. Replace any damaged guards. If guards do not rotate freely on drivelines, repair and replace bearings before operating.
- A minimum 20% of tractor and equipment weight must be on tractor front wheels with attachments in transport position. Without this weight, tractor could tip over causing personal injury or death. The weight may be attained with a loader, front wheel weights, ballast in tires or front tractor weights. When attaining the minimum 20% weight on the front wheels,



CAUTION

- Operate only in daylight or good artificial light.
- Avoid contact with electrical wires.



WARNING

- Keep hands, feet, hair and clothing away from equipment while engine is running. Stay clear of all moving parts.
- Always comply with all state and local lighting and marking requirements.
- No riders are allowed on equipment.
- Power unit must be equipped with ROPS or ROPS CAB and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS systems in "locked up" position at all times.

Operation Continued

PRE-OPERATION CHECK LIST

(OWNER'S RESPONSIBILITY)

To assure safe and efficient operation it is essential, that each machine operator read and understand the operating procedures and related safety requirements outlined in this manual.

Complete the Pre-Operation Checklist before initial operation, after the first hour of field operation, and before each shift thereafter.

- Review and follow all safety rules and safety decal instructions on pages 4 through 11.
- Check that all safety decals are installed and in good condition. Replace if damaged.
- Check that all shields and guards are properly installed and in good condition. Replace if damaged.
- Check that all hardware and cotter pins are properly installed and secured.
- Check alignment and spacing of digger wheels.
- Check alignment of grab rolls and remove any obstructions.
- Check that elevator chains, rollers and tensioners move freely and without obstruction
- Check tractor and harvester tire pressures. Service as necessary.
- Check that boom lock is in good repair. Do not operate unless boom lock is fully engaged when truck boom is raised.
- Check that equipment is properly and securely attached to tractor.
- Make sure driveline spring-activated locking collar slides freely and is seated firmly in tractor PTO spline groove.
- Before starting tractor, check all equipment driveline guards for damage and make sure they rotate freely on all drivelines. Replace any damaged guards. If guards do not rotate freely on drivelines, repair and replace bearings before operating.
- Do not allow riders.
- Check and keep all bystanders away from equipment working area.
- Check all lubrication points and grease as instructed in "Service, lubrication information". Make sure the PTO slip joint is lubricated and that the gearbox fluid levels are correct.
- Set tractor PTO at correct rpm for your equipment.
- Check that all hydraulic connections are correct and all hydraulic control movements function as described in the Operator's Manual.
- Check that all hydraulic hoses and fittings are in good condition and not leaking before starting tractor. Check that hoses are not twisted, bent sharply, kinked, frayed or pulled tight. Replace any damaged hoses immediately.
- Raise and lower equipment to make sure air is purged from hydraulic cylinders and hoses.
- Make sure tractor 3-point lift links do not interfere with hydraulic hoses or driveline throughout full turning range.
- Make sure tractor ROPS or ROPS CAB and seat belt are in good condition. Keep seat belt securely fastened during operation.
- Before starting engine, operator must be in tractor seat with seat belt fastened. Place transmission in neutral or park, engage brake and disengage tractor PTO.

Operation Continued

HARVESTER COMPONENTS

The harvester consists of several components which will be referred to throughout this manual. They are as follows:

- 1. Center frame:** This is the base structure to which all components of the harvester are attached.
- 2. Wing frame:** This is the structure to which the lifter struts of the harvester are attached.
- 3. Hitch:** Located on the front of the harvester, it is used to attach the harvester to a tractor. Hydraulic cylinders connect the Hitch to the Main Frame and are used to control the working depth and harvester steering.
- 4. Lifter struts:** Lifter struts are attached to the wings of the harvester to align with each row of to remove the beets from the soil.

5. Paddle shaft: Shaft and paddle assemblies rotate through each lifter wheel assembly directing all materials from between the lifter wheels onto the grab roll bed.

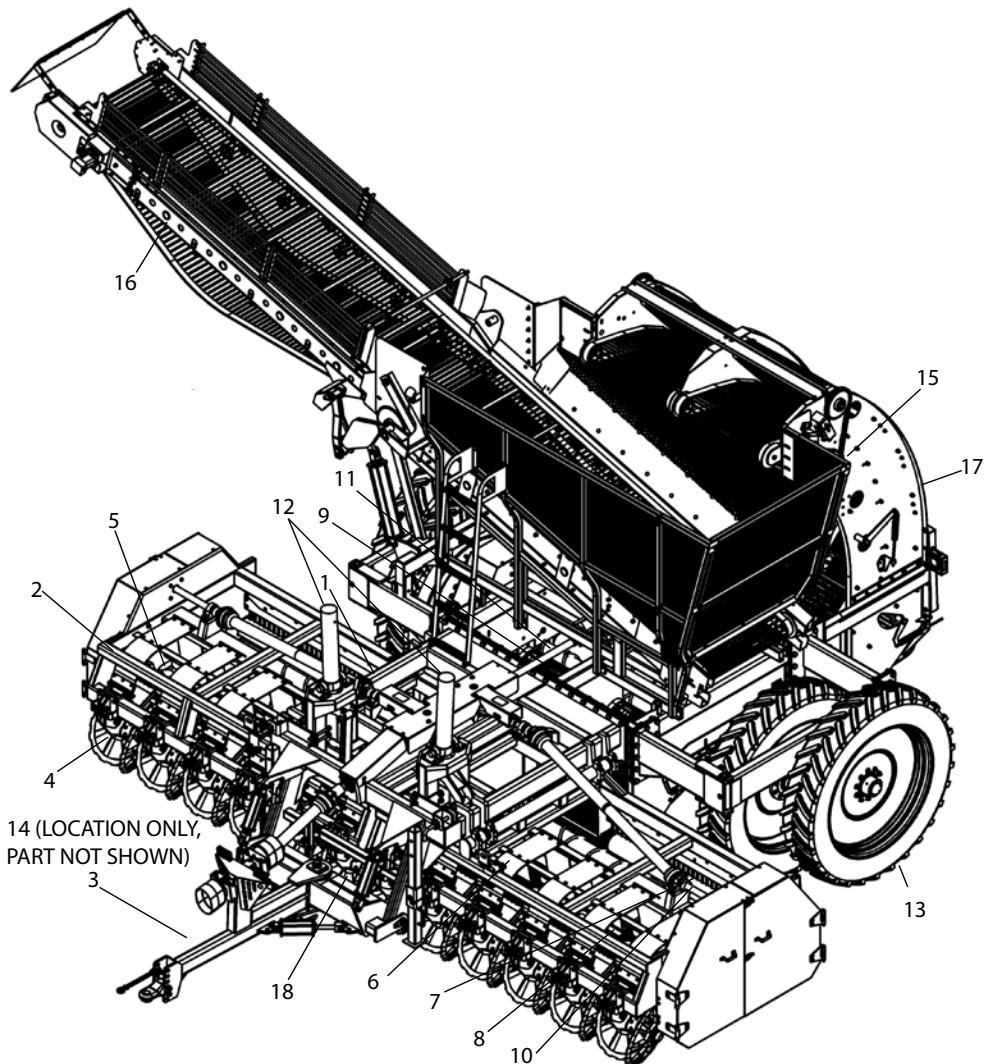
6. Front Barrier: Structure attached to the front of the wings to keep beets from falling out.

7. Rear Barrier: Located on the back of the wings to keep beets from falling out the back while allowing easy access to the inside of the wing.

8. Wing Grab Rolls: Pairs of counter-rotating cleaning rolls to remove soil and debris from the beets while moving beets to the center frame.

9. Center Frame Grab Rolls: Pairs of counter-rotating cleaning rolls to remove soil and debris from the beets while moving beets to the vertical elevator.

10. Wing Chain Bed: Chain that carries beets from



Operation Continued

lifter wheels to the wing grab roll bed.

11. Center Frame Chain Bed: Chain that carries beets from the wing grab roll bed to the center frame grab roll bed.

12. Trunion Hydraulic Cylinder: The main cylinder to lift the wings up.

13. Walking Tandem Wheels: Mounted on the sides of the center frame, designed to offer a smooth ride while increasing carrying weight.

14. Stabilizer Wheels: Located on the front of each wing to keep the wings from dipping.

15. Holding tank: Beet holding area. Beets are dropped into the tank until truck arrives.

16. Truck boom: The foldable conveyor extension on the top right of the harvester used to convey beets to the truck.

17. Vertical elevator: Structure comprised of four powered belted chains moving the beets vertically from the grab rolls to the top of the holding tank.

18. Row Finder: Keeps the Harvester digger wheels centered on the beets.

EQUIPMENT MATCHING

| <u>Harvester</u> | <u>Minimum HP</u> |
|------------------|-------------------|
| 8 ROW 30" | 240 HP |
| 12 ROW 22" | 250 HP |
| 12 ROW 30" | 290 HP |
| 16 ROW 22" | 300 HP |

Use the above guidelines to select a tractor with adequate power and weight to operate the harvester.

Use tractor manufacturer ASAE HP ratings for tractor matching.

TRACTOR BALLAST

The tractor should be equipped with manufacturer's maximum allowable front end ballast for operational and transport stability.

TIRE REQUIREMENTS

The loaded beet harvester will transfer 4000 to 6000 lbs. of static weight to the tractor drawbar. Tractor tires must be of adequate capacity to carry the additional load.

See your tractor operator's manual for selecting tires of the proper capacity and the correct air pressure required.

Dual tractor wheels set to the correct row spacing may be used to increase load capacity.

Tractor tire spacing must be adjusted to match the harvester row spacing.

PTO



WARNING

- Connect PTO driveline directly to tractor PTO shaft. Never use adapter sleeves or adapter shafts. Adapters can cause driveline failures due to incorrect spline or incorrect operating length and result in personal injury or death.

Tractor must be equipped with a 1000 rpm PTO shaft. The harvester may be equipped with either a 1-3/8"-21 or 1-3/4"-20 spline driveline to match the tractor output shaft without using adapters.

The harvester may be equipped with optional CV driveline.

HITCH REQUIREMENTS

The drawbar length must be adjusted to a minimum of 16" to 18" between the end of the tractor PTO shaft and the center of the hitch pin.

IMPORTANT

- Fasten support chains so that they support the drawbar equally.
- Raise the three-point hitch only high enough to support the drawbar. Do not bend the drawbar or hitch components.

Operation Continued

HYDRAULIC SYSTEM

Each outlet requires a minimum flow of 12-16 GPM at 2000 psi.

On certain tractors using a pressure/flow compensated system, a load sensing line may be required for proper hydraulic system operation. Consult your tractor dealer for the specific requirements of your tractor hydraulic system.

If not equipped with Hydraulic Manifold

The tractor must be equipped with a minimum of seven operator controlled remote outlets and one power-beyond circuit or eight operator controlled remote outlets if a power-beyond is not available.

- Tractor remote valve (1) supplies hydraulic power for the depth control/transport cylinders on the hitch.
- Tractor remote valve (2) supplies hydraulic power to the Boom lift/lower cylinders.
- Tractor remote valve (3) supplies hydraulic power to the Wing lift/lower cylinders.
- Tractor remote valve (4) supplies hydraulic power to the Hydraulic drive motors on Boom Unload Conveyor.
- Tractor remote valve (5) supplies hydraulic power to the Hydraulic drive motors on Rear Elevator.
- Tractor remote valve (6) supplies hydraulic power to the row finder override.
- Tractor remote valve (7) or power-beyond circuit supplies hydraulic power for row finder.
- Tractor remote valve (8) supplies hydraulic power to the Wing Stabilizer lift/lower cylinders.

If equipped with Hydraulic Manifold

The tractor must be equipped with a minimum of three operator controlled remote outlets and one power-beyond circuit or four operator controlled remote outlets on a closed center or pressure/flow compensated hydraulic system.

- Tractor remote valve (1) supplies hydraulic power to the row finder override.

■ Tractor remote valve (3) supplies hydraulic power to the Wing lift/lower cylinders.

■ Tractor remote valve (4) supplies hydraulic power to the Hydraulic drive motors on Boom Unload Conveyor and Rear Elevator.

■ Tractor remote valve (4) or power-beyond circuit supplies hydraulic power for hydraulic Manifold Block.

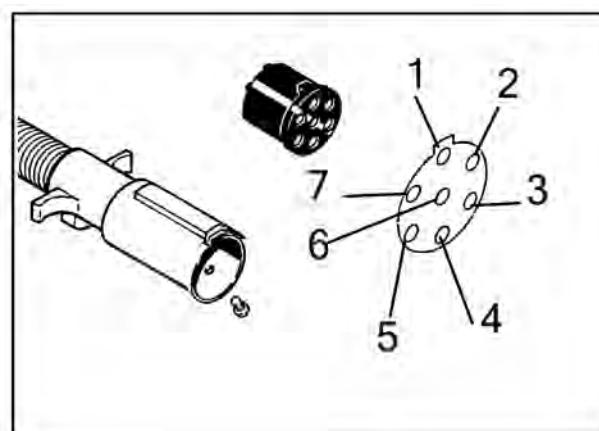
ELECTRICAL SYSTEM

The tractor must be equipped with a SAE J560a 7-pin electrical connector. This will provide power for turn signals, warning flashers, and operating power for the optional rear steering selector switch.

The harvester is equipped with warning flashers and turn signals located on each corner. Warning lights must be functional whenever the harvester is transported on public highways.

See your tractor operator's manual for instructions on warning light and turn signal operation.

If warning lights and turn signals do not function correctly, see your Alloway dealer.



| Position | Wire Color | Wire Function |
|----------|------------|-------------------------|
| 1 | White | Ground |
| 2 | Brown | Tail and Running Lights |
| 3 | Green | Right Turn and Hazard |
| 4 | Red | Stop Lamps |
| 5 | Yellow | Left Turn and Hazard |
| 6 | Black | Clearance / Marker |
| 7 | Blue | Auxiliary Circuit |

Figure 3. 7-Pin Electrical Connector

Operation Continued



Figure 4. Lock Pin & Safety Chain

ATTACHING HARVESTER TO THE TRACTOR

Make sure there are no bystanders between tractor and harvester.

Carefully back up, until the Pin on the tractor is directly in line with the harvester clevis ring.

Stop engine, set parking brake, wait for all moving parts to stop and remove ignition key before dismounting.

Clean the hydraulic couplers and fittings to avoid oil contamination.

Connect the hydraulic hoses which control the front hitch cylinders to the tractor. Connect these hoses so that moving the control lever forward lowers the harvester (raises the hitch tongue) and moving the control lever rearward raises the harvester (lowers the hitch tongue).

Attach the safety chain to the drawbar support of the tractor. Attach Hydraulic Lines. Insert the 7-pin male harvester electrical cable into the tractor female connector.

The unloader conveyer motor is operated by tractor remote valve. Connect the hoses originating at the harvester so that moving lever forward causes the boom conveyor motor to run forward.

The Rear Elevator conveyer motor is operated by tractor remote valve. Connect the hoses originating at the harvester so that moving lever forward causes the beets to run into the tank.

Check the harvester PTO shaft for smooth telescoping action. Attach the harvester PTO shaft to the tractor PTO shaft. Make sure the locking collar is fully engaged in the lock groove of the tractor PTO.

Hydraulically raise front of the harvester, stop engine, set park brake, wait for all moving parts to stop and remove ignition key before dismounting.

Install transport locks on depth control cylinders.

UNHOOKING THE HARVESTER FROM THE TRACTOR

Locate the harvester on a hard level surface. Make sure area is free of bystanders.

Lower machine with the tractor hydraulics from tractor seat, until machine is resting in a level and stable position on the lifter wheels. Planks or blocking of a suitable size may be used to prevent the harvester from sinking into the soil or damaging the floor surface.

Move boom locks out of cradled position and fully lower the truck boom. Stop the engine, set parking brake, remove ignition key and wait for all moving parts to stop before dismounting the tractor. Block the rear wheels of the harvester to prevent the harvester from rolling. Disconnect PTO shaft from tractor. Disconnect the safety tow chain. Disconnect the electrical cable from the tractor and store in a safe and secure position on the hitch. Remove Pin from hitch.

Lower the hitch to the full extension of the lift cylinders. Stop the engine, release hydraulic pressure in all remotes, set parking brake, remove ignition key and wait for all moving parts to stop before dismounting the tractor.

Disconnect all hydraulic lines and the rear steering electrical connector.

FIELD OPERATION

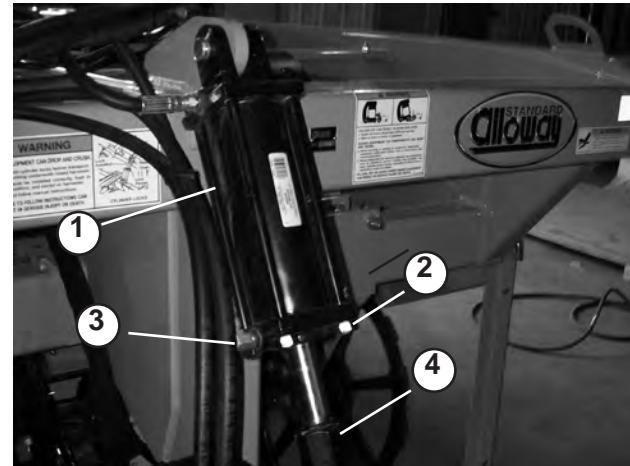
Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by a single careless act of an operator.

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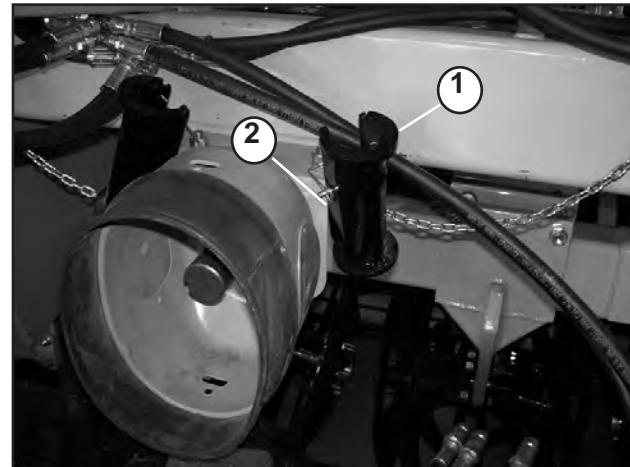
The Alloway harvester will give best performance only if properly set for individual field conditions. These setting requirements may change with changes in soil moisture, density and beet varieties. The following explains operation and adjustment of the machine. Check with your dealer or Alloway for special conditions.

pin in transport lock to hold lock in place on cylinder rod. Install transport lock for both lift cylinders



1. Front Lift Cylinder
2. Transport Lock
3. Lock Pin
4. Adjustable Depth Stop

Figure 9. Transport Locks Installed



1. Transport Lock
2. Lock Pin

Figure 10. Transport Lock Storage Position

Transport locks should be attached to the storage brackets whenever locks are removed for digging operation. Replace any lost or damaged transport lock component immediately. Recommended operating depth is between 2" and 3" measured from cleared undisturbed soil to the bottom of the cut trench behind the harvester.

Field Operation Continued

HITCH RING HEIGHT ADJUSTMENT

IMPORTANT

- When operating in rocky conditions, the lift circuit should be placed in "float" position to allow the harvester to raise over rocks without lifting the tractor.

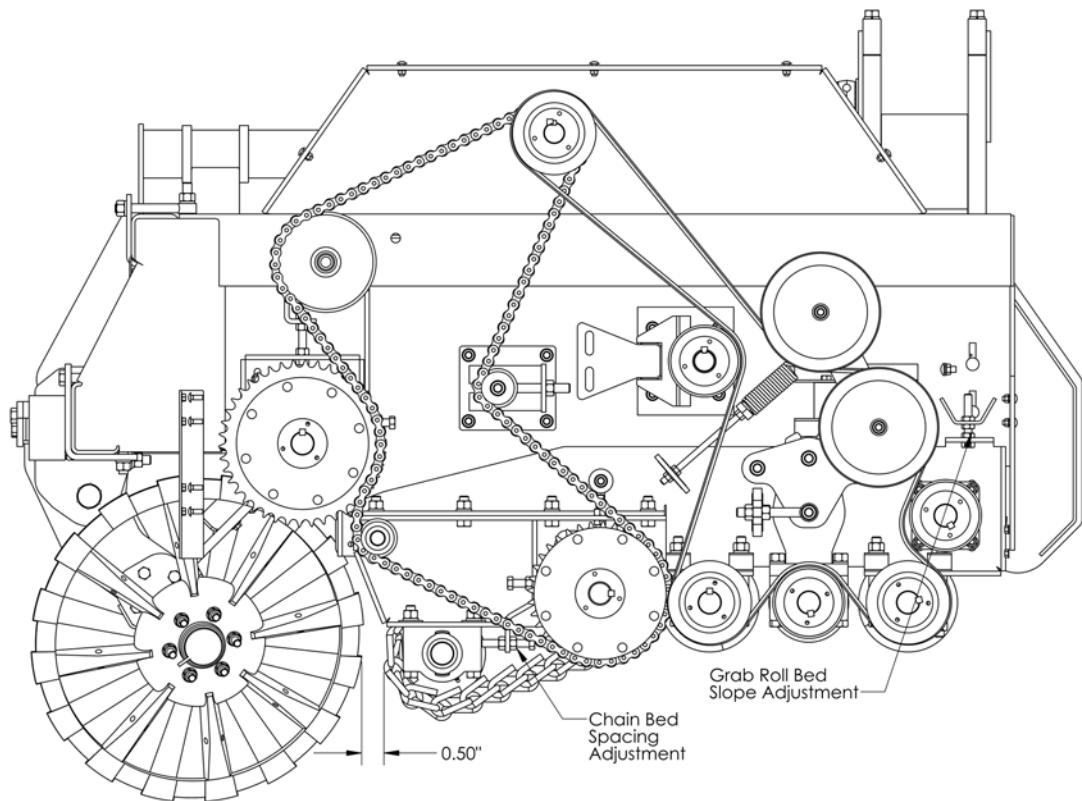
Leveling may be adjusted by moving the hitch ring attached to the harvester tongue up or down.



1. Adjustable Hitch Ring 2. Hitch Adjustment Bolts

Figure 11. Hitch Ring Adjustment

CHAIN BED AND GRAB ROLL ADJUSTMENT



Adjust Chain Bed spacing between lifter wheels and Chain Bed by adjusting Pivot Bracket with adjusting bolt. Maintain a minimum distance of approximately 1/2" between lifter wheels and Chain Bed.

Cleaning capacity of harvester can be adjusted by raising or lowering adjustable grab roll bed. Front of side sheet may be lowered to allow beets more time on grabroll bed for better cleaning. Front of side may be raised if less cleaning time is required.

Field Operation Continued

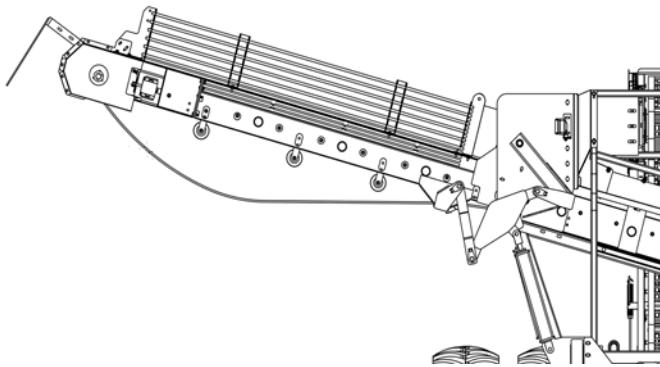


Figure 16. Truck Boom in Extended Operating Position

EXTEND TRUCK BOOM TO OPERATING POSITION

Truck boom must be fully extended before operating truck boom conveyor.

Confirm that truck boom cylinders are fully retracted and outer section of boom is lowered to rest point before operating conveyor.

IMPORTANT

- Operate unload conveyer only with truck boom fully extended. Hydraulic pressure on boom cylinders must be relieved and hydraulic selector valve moved to the “in” position (row finder override function). Make sure all people and equipment are clear of the boom area.

Switch hydraulic selector valve to activate truck boom circuit.

Move tractor remote lever/toggle #3 forward to retract boom cylinders and deploy boom until it rests against tank conveyor frame.

Stop engine, set parking brake, remove ignition key and wait for all moving parts to stop before dismounting the tractor.

Move hydraulic selector valve to “in” position to activate harvester truck boom hydraulic motors.

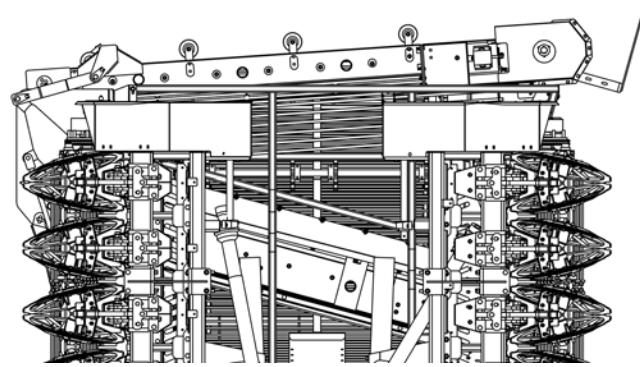


Figure 17. Truck Boom in Folded Transport Position

FOLD TRUCK BOOM TO TRANSPORT POSITION

Make sure all people and equipment are clear of boom area.

Hydraulic selector valve must be in “out” position to activate truck boom circuit.

Using tractor remote lever/toggle #3, move lever rearward to extend boom cylinders. This will rotate truck boom completely to transport position.

ADJUST TRUCK BOOM MOTOR SPEED

Adjust truck boom motor speed using the tractor remote valve #4. Start tractor and activate truck boom motor. Observe truck boom conveyor and adjust flow to achieve desired unloading speed.

Field Operation Continued

ROW FINDER

Automatic steering by the row finder requires constant hydraulic pressure at the automatic steering valve. Hydraulic power for the row finder is provided by the tractor power-beyond kit or tractor remote #4 set for continuous operation.

Make sure the row finder assembly is level and the feeler arms are aligned with the center of the lifter wheels on the finder row.

With the harvester set at operating depth, adjust the row finder feeler arms to run as lightly on the soil as possible.

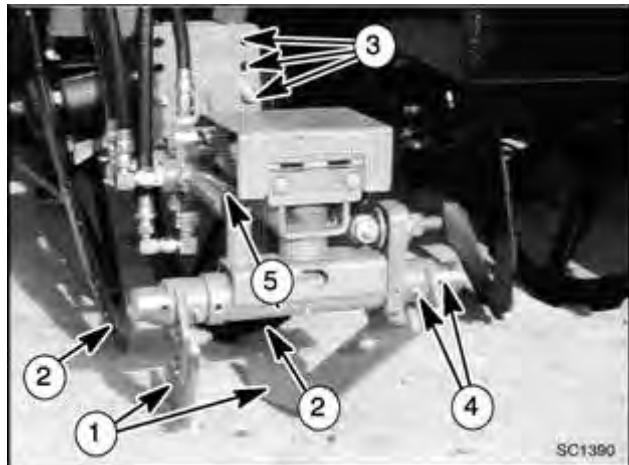
Adjust the spacing between feeler arms to the approximate diameter of beets at ground level.

Adjust the length of the valve control rod to center the feeler arms on the lifter wheel strut.

Adjust the auxiliary centering springs to the same position as the centering spring in the row finder valve spool. It is generally most effective to adjust the row finder on level ground.

IMPORTANT

- Before backing up, raise harvester completely. The row finder may be damaged if it is allowed to contact the ground while backing.



| | |
|---------------------------------|-------------------------------|
| 1. Feeler Arms | 2. Lifter Wheels |
| 3. Row Finder Height Adjustment | 4. Feeler Arm with Adjustment |
| 5. Steering Control Rod | |

Figure 18. Row Finder

ROW FINDER OVERRIDE

A row finder override control is powered by tractor control valve. This provides manual control of the steering system and can be used to override the row finder.

To operate the row finder override control: activate tractor control lever rearward to move the harvester left, and forward to move the harvester right.

PTO ENGAGEMENT

Set the tractor throttle to idle before engaging or disengaging the PTO.



WARNING

- Connect PTO driveline directly to tractor PTO shaft. Never use adapter sleeves or adapter shafts. Adapters can cause driveline failures due to incorrect spline or incorrect operating length and result in personal injury or death.

GRAB ROLLS

The grab roll bed is a series of counter-rotating roll pairs which help to clean the beets and move them to the elevator. The gap between roll pairs is adjustable for different cleaning requirements.

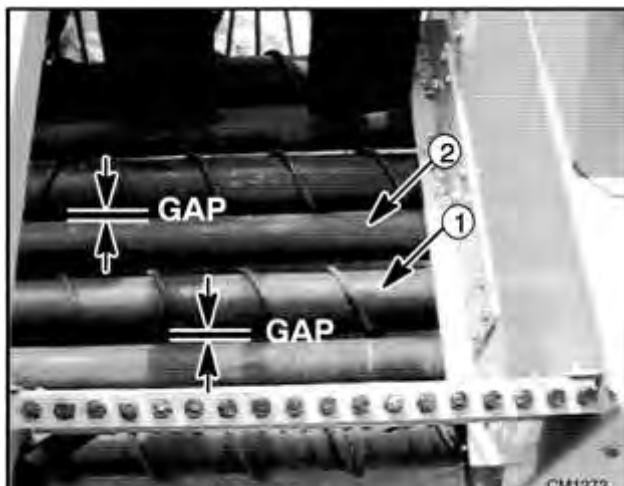
The grab roll bed is equipped with a system of cushions to help absorb shocks and permit small stones or other debris to pass between the grab rolls.

It is important to have an even space on the left and right sides of the harvester between the pairs of grab rolls; however, the individual pairs can have different gaps to accommodate conditions. For example a wide gap may be helpful on the first pair of rollers to expel excessive soil, and a narrow gap on the last pair may save tails. Spiral rolls are fixed in the grab roll bed. In 7-roll harvesters, the rear spiral roll has no paired smooth roll. Optional fixed-position rear stub rolls are available.

GRAB ROLL BED RODS

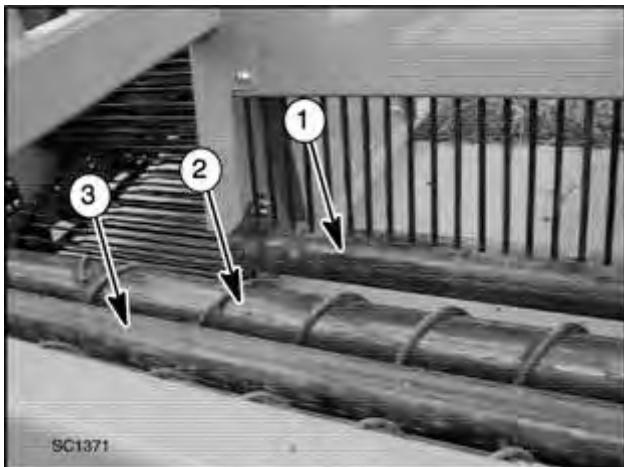
The grab roll rods are located at the rear of the roll bed, and may be removed for access to the bed.

Field Operation Continued



1. Spiral Roll (Fixed) 2. Smooth Roll (Adjustable)

Figure 21. Grab Roll Gap



1. Stub Roll (Optional) 2. Rear Spiral Roll
3. Smooth Roll

Figure 22. Stub Roll (Optional)

LIFTER WHEELS

The pinch point width should be uniform across all rows of the harvester. The pinch point width can be adjusted by adding or removing pairs of spacers at each lifter wheel.

Raise harvester and install transport locks (see Blocking Method, page 32).

To remove or add spacers, loosen lifter wheel nuts and remove the bolt retaining each spacer (one bolt per spacer). Install or remove spacers as required to set the desired width and re-tighten the wheel nuts to 100 lb-ft. (without wheel cushions). With wheel cushions, tighten wheel nuts to compress wheel spring assemblies $1/4$ " from their free height.

Spacers must be installed as pairs. Multiple spacer pairs may be used at each wheel to increase the pinch point width.

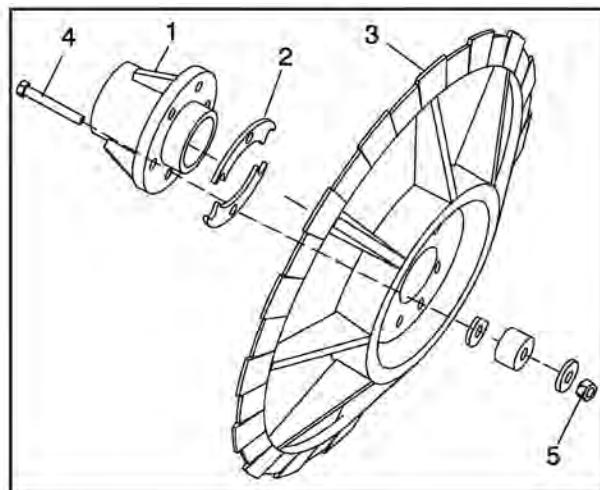
It is not necessary to remove the lifter wheels when adding or removing spacers.

WHEEL SCRAPERS

Wheel scraper blades are adjustable for digging conditions. To adjust scraper blades, loosen retaining bolts and slide scraper blades to place the scraper closer to the wheel or away from the wheel. Retighten scraper retaining bolts.

WHEEL FILLERS

Under certain digging conditions, beets may fall through the spokes of the lifter wheels during operation. This condition may require the installation of filler spokes on the lifter wheels. To install fillers, remove two wheel nuts (opposite from each other) and install wheel filler. Retighten wheel retaining nuts.



1. Hub 2. Spacer (Installed in pairs)
3. Lifter Wheel 4. Wheel Bolt
5. Wheel Nut

Figure 23. Install Lifter Wheel Spacers

Field Operation *Continued*

FLEXING LIFTER STRUTS (Optional)

Flex struts are available for the lifter wheel struts for operation in rocky conditions.

Flex cushions on the lifter wheels will reduce damage to the lifter wheels in rocky conditions.

When operating in rocky conditions, the lift circuit should be run in "float" to allow the harvester to raise over rocks without lifting the tractor.

IMPORTANT

- **When operating in rocky conditions, the lift circuit should be placed in "float" position to allow the harvester to raise over rocks without lifting the tractor.**

PADDLE SHAFT

The paddle shaft provides a set of rotating paddles between each set of lifter wheels. Beets are moved onto the chain bed by the rotating paddles. The height of the paddle shaft may be raised or lowered to obtain the correct clearance for the harvesting conditions. With flex struts installed, the paddle shaft must be placed in the uppermost position to maintain adequate clearance between the paddle shaft and the lifter wheels. Keep front and rear paddle deflectors in place and in good condition; replace if damaged or missing.

VERTICAL ELEVATOR

A dual chain elevator moves the beets from the grab roll bed to the holding tank. A combination of straight and offset rods is used in the elevator to provide a pocket for carrying beets. All machines are equipped with 1:1 speeds for the vertical elevator chains. If scrubbing action is desired, the speed of the outside chain can be increased by replacing the 40 tooth "driven" sprocket with a 34 tooth sprocket. This will give a scrub ratio of approximately 15% between the two vertical elevator chains.

As the elevator fills with beets, spring loaded tensioner arms allow the chains to operate correctly. Tension adjustment springs for the outer chain are located on the both sides of the elevator. Tension adjustment spring for the inner chain is located on the right side of the elevator.

The vertical elevator is driven from the self contained hydraulic system or by 4th remote on tractor (optional). To speed up rear elevator use flow control. For more speed and power increase flow.

Field Operation *Continued*

TRANSPORTING

Follow instructions in "Fold Truck Boom to Transport Position" to place truck boom in retracted position.

Raise the machine and insert the transport locks on the hitch lift cylinders.

Transport locks must be installed whenever the harvester is transported.

Replace any lost or damaged transport lock component immediately.

Do not transport the harvester with beets in the holding tank.

Make sure reflectors, lights and the SMV sign are clean and clearly visible to other traffic.

Do not allow riders.

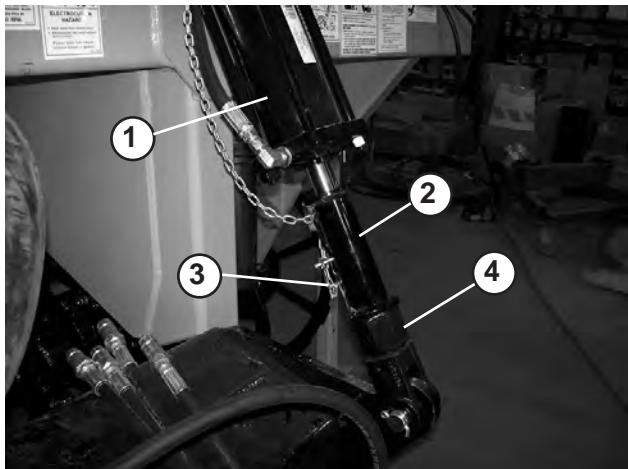
Use hazard flashers on the tractor and harvester when transporting.

Never exceed safe travel speed, slow down when making turns and traveling on rough roads or shoulders.

Only use a tractor of the recommended size and weight for transporting.

Lock foot brake pedals for even application during road travel.

Do not exceed 10 mph transport speed.



| | |
|------------------|--------------------------|
| 1. Lift Cylinder | 2. Transport Lock |
| 3. Lock Pin | 4. Adjustable Depth Stop |

Figure 24. Transport Locks Installed

FIELD OPERATION

STORAGE



WARNING

- For storage, disengage tractor PTO power to harvester, lower front lift cylinders so that lifter wheels are on the ground, lower truck boom, lower 3-point hitch. Operate tractor valve control levers to release any hydraulic pressure. Stop engine, set parking brake, remove key and unfasten seat belt. Remove driveline from tractor PTO. Chock (block) front and rear of harvester wheels.



CAUTION

- Keep children and bystanders away from storage area.

After the season's use, the machine should be thoroughly inspected and prepared for storage. Repair or replace any worn or damaged components to prevent any unnecessary down time at the start of the next season.

To insure a long, trouble free life, this procedure should be followed when preparing the unit for storage.

Clear the area of bystanders.

Thoroughly wash the machine using a pressure washer to remove all dirt, mud, debris or residue.

Check the rotating components for damage or entangled material. Repair or replace damaged parts. Remove any entangled material.

Inspect all hydraulic hoses, fittings, lines and couplers. Tighten any loose fittings. Replace any hose that is cut, nicked or abraded or is separating from the crimped end of the fitting.

Change the oil in the gearbox.

Lubricate all grease fittings. Make sure that all grease cavities have been filled with grease to remove any water residue from the washings.

Touch up all paint nicks and scratches to prevent rusting.

Move to storage area.

Select an area that is dry, level and free of debris. Unhook from tractor.

Place PTO shaft on hitch to keep PTO off the ground.

Store the machine in an area away from human activity.

Do not allow children to play on or around the stored machine.

OWNER SERVICE

Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by a single careless act of an operator.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

It has been said *"The best safety device is an informed, careful operator."* We ask you to be that kind of an operator.

The information in this section is written for operators who possess basic mechanical skills. Should you need help, your dealer has trained service technicians available. For your protection, read and follow all safety information in this manual.



WARNING

- Before dismounting tractor, disengage tractor PTO power to implement, lower front lift cylinders so that lifter wheels are on the ground. Operate valve control levers to release any hydraulic pressure. Stop engine, set parking brake, remove key and unfasten seat belt.
- Before performing any service or maintenance, disengage power to implement, lower front lift cylinders so that lifter wheels are on the ground, lower truck boom, lower 3-point hitch. Operate valve control levers to release any hydraulic pressure. Stop engine, set parking brake, remove key and unfasten seat belt. Disconnect driveline from tractor PTO. Chock (block) front and rear of implement wheels.
- Before working underneath a raised implement, read and follow all operator's manual instructions and safety rules. Implement must be attached to tractor, lift cylinder locks must be installed, and lift cylinders lowered against locks. Hydraulic system leak down, hydraulic system failures, or movement of control levers can cause equipment to drop unexpectedly and cause severe injury or death.



WARNING

- Never perform service or maintenance with engine running.
- Do not disconnect hydraulic lines until engine is stopped, tractor is properly secured, equipment and all components are lowered to the ground, and system pressure is released by operating all valve control levers.
- Keep all persons away from operator control area while performing adjustments, service or maintenance.



CAUTION

- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing and head.



WARNING

- Never go underneath equipment lowered to the ground or raised, unless it is properly blocked and secured. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death. Follow Operator's Manual instructions for working underneath and blocking requirements, or have work done by a qualified dealer.

Owner Service Continued

BLOCKING METHOD FOR LIFTER WHEELS AND ROW FINDER SERVICE

The only approved blocking devices for this harvester are the cylinder transport locks supplied with the unit. The harvester must be located on a hard level surface and the transport locks properly installed. Do not use a transport lock or retaining pin which is bent or damaged. Replace any damaged or lost transport lock component immediately.

Do not work underneath harvester unless it is properly attached to the tractor and blocked securely. When properly attached, the unit will be anchored to minimize front-to-rear movement.

Before blocking, ensure harvester is securely attached to tractor. Truck boom must be fully lowered into transport position. Do not work on harvester with truck boom in any intermediate position. Raise harvester completely, set park brake, shut off engine, remove key, and chock tractor wheels. Without going under the harvester, carefully install transport locks and retaining pins. Start tractor and lower harvester onto transport locks. Cylinder depth stops must be set equally before installing transport locks. Disconnect PTO driveline before performing any maintenance on the harvester.

TRUCK BOOM SERVICE



WARNING

- Before performing any maintenance on the beet harvester, the truck boom must be fully lowered into the transport position. Do not work on harvester with truck boom in any intermediate position. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.

- Truck boom lock must be engaged when truck boom is in operating position. Do not operate unloader conveyor unless boom lock is engaged and in good repair. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.

Before working on truck boom or any components on the right side of the harvester, the truck boom must be fully lowered into transport position. Do not work on harvester with truck boom in any intermediate position.

LUBRICATION

Figure 26 (Page 30) shows the lubrication points. The accompanying chart gives the frequency of lubrication in operating hours, based on normal conditions. Severe or unusual conditions may require more frequent lubrication.

Do not let excess grease collect on or around parts, particularly when operating in sandy areas.

Use SAE multi-purpose high temperature grease, or SAE multi-purpose lithium based grease.

Use a lithium grease of No. 2 consistency with a MOLY (molybdenum disulfide) additive for all locations. Be sure to clean fittings thoroughly before attaching grease gun. When applied according to the lubrication chart, one good pump of most guns is sufficient. Do not over grease. Grease the telescoping driveline. Daily lubrication of the PTO slip joint is necessary or damage to U-joints, gearboxes, tractor PTO and/or harvester driveline can result. Close and secure all removable covers and guards before operating harvester.

Owner Service *Continued*

Lubrication Service Record

NOTE: See prior pages for details.
Copy this page to continue service record.

✓ = CHECK
L = LUBRICATE

C = CHANGE
R = REPACK

| | | | | | |
|-------|--------------|----------|-----------------------------------|---|-----------------------------------|
| Date: | Serviced By: | Annually | | | |
| | | L | Center Hanger Bearings | L | Ratchets |
| | | R | Wheel Bearings | C | Gearbox Oil |
| | | L | Overrunning Clutch | L | U-Joint |
| | | L | Rotor End Bearing | L | Wheel Mounting Tube Bearings |
| | | L | Rotor Splined Couplers | L | Rotor Splined Couplers |
| | | L | PTO Driveline (Telescope Section) | L | PTO Driveline (Telescope Section) |
| | | ✓ | Gearbox Oil Level | L | PTO Driveline |

Owner Service *Continued*

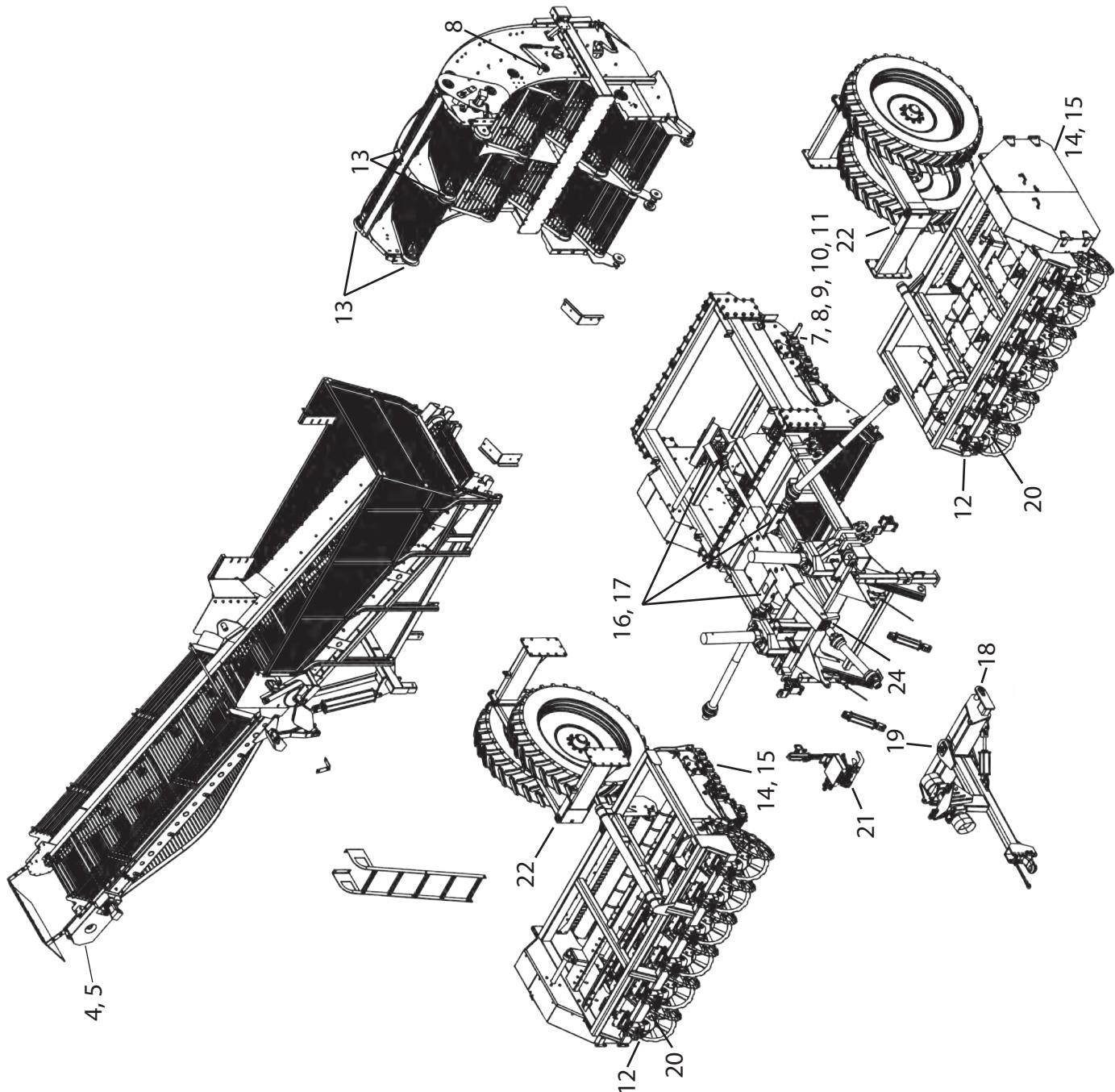


Figure 26. Lubrication Locations

Owner Service Continued

LUBRICATION CHART

| ITEM NO. | DESCRIPTION | FREQUENCY | NUMBER |
|----------|---|-----------|-----------------|
| 1 | U-Joint | 24 hrs | 2(std) or 3(CV) |
| 2 | Slip-Joint | 24 hrs | 1 |
| 3 | Cv-Joint (Optional) | 24 hrs | 1 |
| 4 | Cross Shaft | 24 hrs | 2 |
| 5 | Motor Primary Shaft Bearing | 24 hrs | 1 |
| 6 | Elevator Tensioner Pivots | 8 hrs | 2 |
| 7 | Grab Roll Bearing | 24 hrs | 16 |
| 8 | Cushion Pivot | 8 hrs | 6 |
| 9 | Grab Roll Idler Pivots | Yearly | 4 |
| 10 | Grab Roll Drive Bearing | 24 hrs | 2 |
| 11 | Paddle Shaft Primary Drive | 24 hrs | 4 |
| 12 | Paddle Shaft Bearings | 24 hrs | 2 or 3 |
| 13 | Elevator Upper Shafts | 24 hrs | 4 |
| 14 | Chain Bed Shaft Bearings | 24 hrs | 1 |
| 15 | Idler Pulley Hubs | 24 hrs | 2 |
| 16 | Main Gearbox: Check Lube Level | 24 hrs | 1 |
| 17 | Main Gearbox Output U-Joints | 24 hrs | 2 |
| 18 | Hitch Lift Pivots | 8 hrs | 2 |
| 19 | Hitch Steering Pivots | 8 hrs | 2 |
| 20 | Lifter Wheel Bearing | 24 hrs | 1 (each wheel) |
| 21 | Row Finder Pivot Shafts | 8 hrs | 2 |
| 22 | Rear Steering Pivot Shaft (Optional) | 8 hrs | 2 |
| 23 | Rear Steering Level Adjuster (Optional) | 8 hrs | 4 |
| 24 | PTO Carrier Bearing | 24 hrs | 1 |
| 25 | Short Grab Roll Bearing | 24 hrs | 2 |

DAILY SERVICE

Inspect all drive belts for slippage, damage or accumulation of foreign materials. Adjust and clean as necessary.

Inspect all drive chains and adjust as necessary.

Inspect paddle shaft for loose or missing paddles and hardware.

Inspect grab roll bed for alignment, spacing, and roll damage. Check that grab roll shock cushions are in good condition.

Inspect the elevator and unloader structures for missing or damaged rollers. Inspect unloader chain slide bars on the tank bottom for damage or wear; replace if necessary.

Inspect hydraulic system for leaking or damaged components. Replace or repair leaking fittings immediately.

Inspect all conveyor chains for loose or missing cross rods. Check the splices on each belted chain, tighten chain as necessary.

Inspect lifter wheels and struts for alignment, loose or missing components, and proper setting.

Check tractor and harvester tire pressure. Service as necessary.

YEARLY SERVICE

Inspect PTO driveline components for wear or damage and repair as necessary.

Inspect all gearboxes for leaks or damage, and repair.

Drain and replace all gearbox lubricant and clean breathers.

Repack lifter wheel bearings and replace any worn or damaged components.

Inspect chain bed for damaged or bent chain and replace if necessary.

Inspect paddle shaft bearings, paddles, and deflectors. Replace as necessary.

Inspect grab rolls for proper alignment, bent rolls, or damaged flighting and replace if necessary. Inspect grab roll drive belts, sheaves and tighteners; repair any damaged components.

Inspect transport cylinder locks; replace any worn or damaged component.

Repack carrier wheel bearings and replace any damaged components.

Owner Service Continued

MAINTENANCE

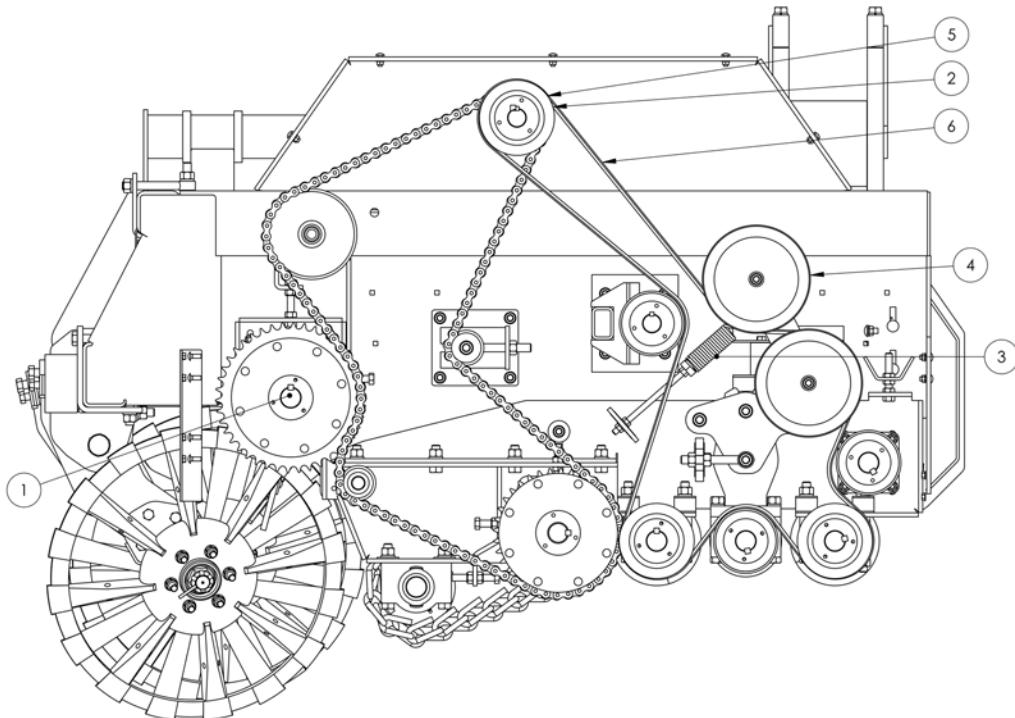
Before performing any maintenance or inspections on the harvester, shut off the tractor, set the parking brake, release all hydraulic system pressure with the tractor hydraulic controls and remove the key from the tractor.

GRAB ROLL DRIVE BELT ADJUSTMENT (Figure 28)

Open grab roll side door. Tighten the tension spring adjustment bolt so as to show approximately 1/8" gap between each of the spring coils.



Figure 28. Grab Roll Drive



1. Paddle Shaft Primary Drive
2. Grab Roll Drive Sheaves
3. Idler Spring
4. Belt Idler
5. Paddle Shaft Drive Sprocket
6. Grab Roll Drive Belt

Figure 29. Grab Roll Drive

BELT REPLACEMENT (NEW BELT)

To remove belt, loosen the idler spring.

Install belt over grab roll sheaves as shown in Figure 29.

Route belt around drive sheaves and idlers as shown in Figure 31. Do not pry belt over sheaves as damage to the belt may result.

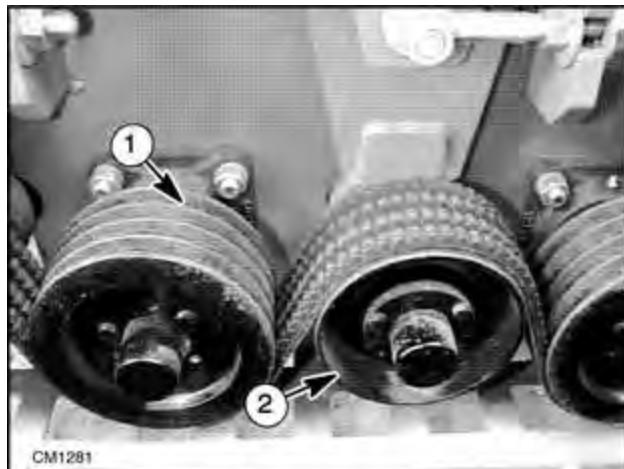
Tighten idler spring until belt does not slip under full load operation. Close and secure grab roll side door.

PADDLE SHAFT, ELEVATOR AND UNLOADER DRIVE CHAINS

Adjust drive chains by moving idler sprocket until chain has 3/8" slack in the long side of the chain. Elevator inner and outer chains are set at the factory to run at the same speed. In some conditions scrubbing action may be needed. By running the inner and outer chains at different speeds, beets are "rolled" up the elevator for additional cleaning.

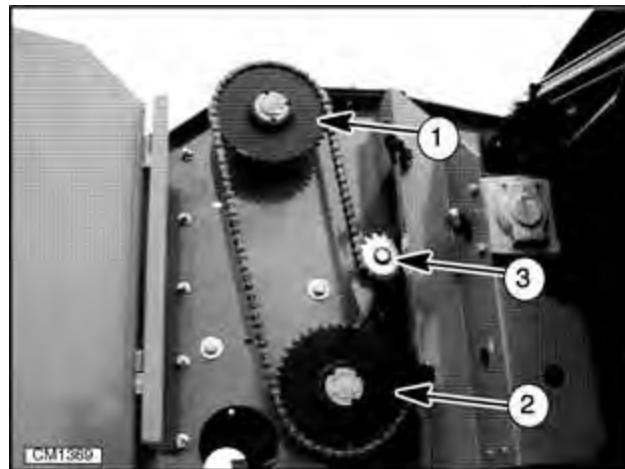
A 34-tooth top sprocket (driven) is available to increase the outer elevator speed and provide a 15% scrubbing ratio between elevator chains.

Owner Service Continued



1. Grab Roll Drive Sheave,
Grooved (Fixed Position Spiral Roll)
2. Grab Roll Drive Sheave,
Flat (Adjustable Postion Smooth Roll)

Figure 30. Belt Routing



1. Outer Elevator, "Driven" Sprocket, (40T Std, 34T Opt)
2. Inner Elevator, "Driven" Sprocket (40T)
3. Idler

Figure 33. Elevator Upper Drive

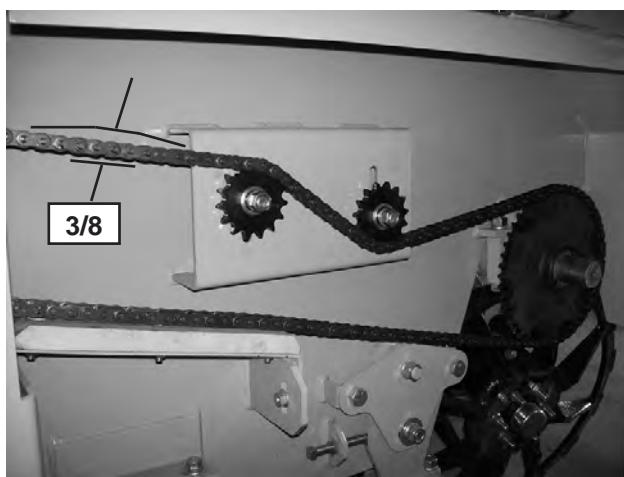


Figure 32. Drive Chain Adjustment

ELEVATOR SPEED ADJUSTMENT (Figure 33)

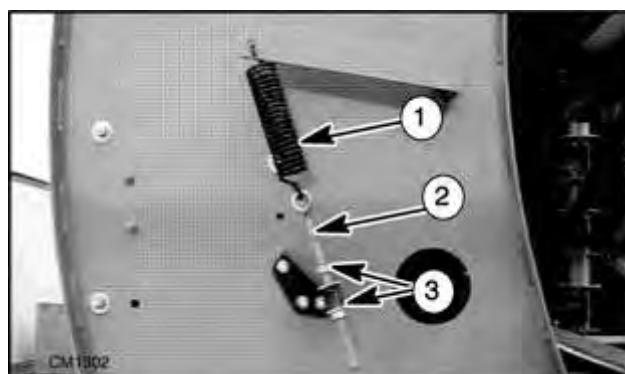
Working from the holding tank, remove shield and drive chain at top of elevator.

Remove outer elevator chain drive sprocket.

Install appropriate replacement drive sprocket (40-tooth standard or 34-tooth optional scrubber sprocket.)

Add or remove chain links to fit new sprockets. Install drive chain and adjust.

Close and fasten drive shield.



1. Tension Spring
2. Adjustment Eyebolt
3. Jam Nuta

Figure 34. Elevator Tensioner

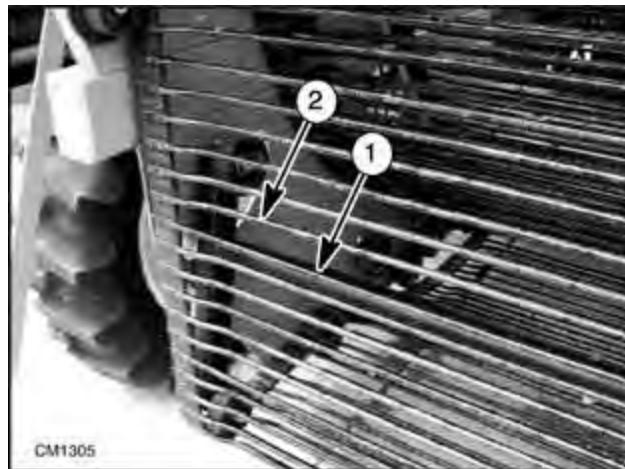
Owner Service Continued

ELEVATOR CHAIN CROSS ROD REPLACEMENT

Elevator chains have a combination of straight and offset rods which are spaced for maximum performance. Truck boom conveyer has all straight rods. Do not operate the harvester with loose, bent or missing cross rods. Replace rods with the type removed. Install offset rods with the offset away from the beets as shown in Figure 35.

Remove rivets attaching rod to belt. Use caution to avoid damaging the belt.

Attach replacement rod to belt using bolts and threaded back-plate. Make sure offset portion of rod is away from the beets.

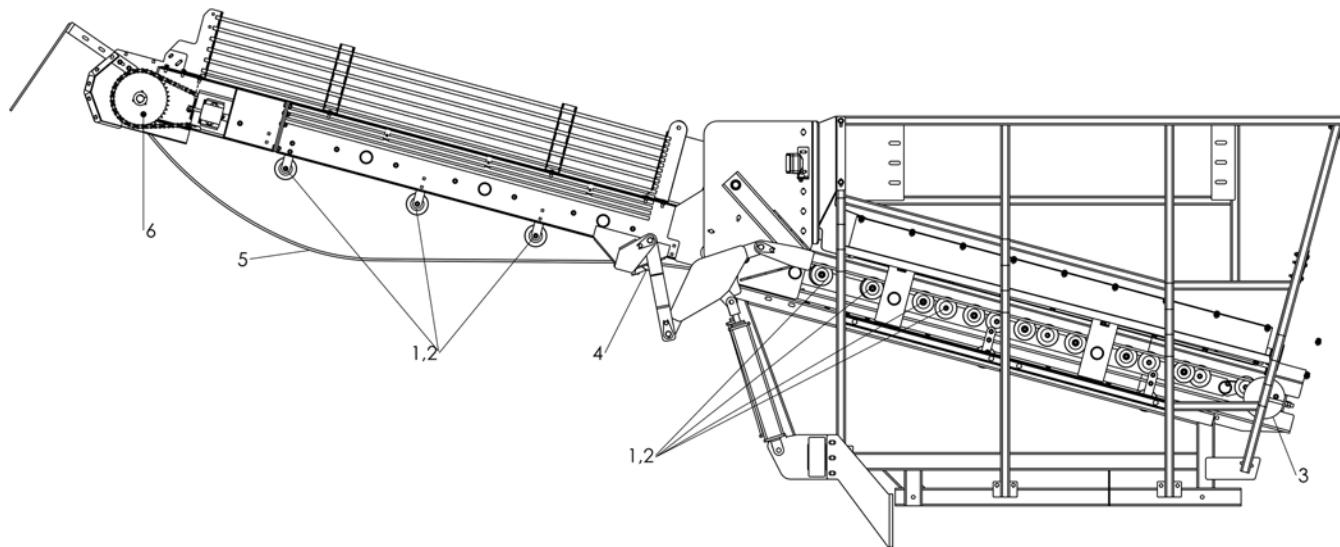


1. Straight Rod (1) 2. Offset Rod (5)

Figure 35. Elevator Cross Rods

ELEVATOR CHAIN ROUTING AND ROLLER LOCATION (Figure 36 & Figure 37)

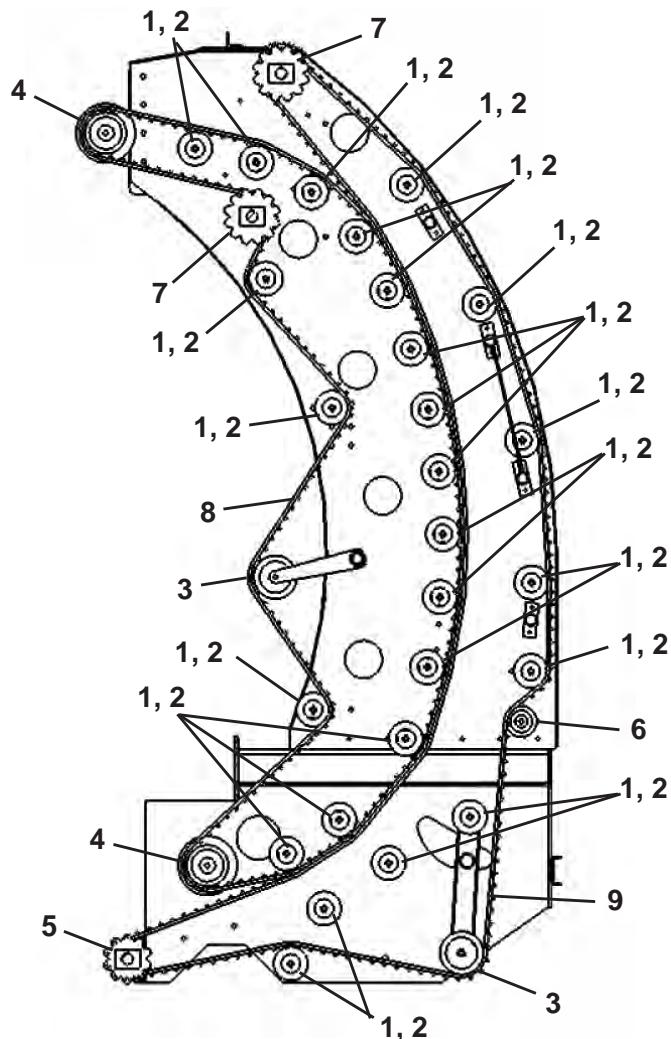
Roller location and elevator chain routing must be correct to provide proper tension during operation. Replace any damaged or missing rollers using the correct type specified.



| | |
|------------------------------------|-------------------------|
| 1. 5" Smooth Roller | 2. Standoff |
| 3. 7" Smooth Sprocket | 4. 6" Nose Roller |
| 5. 10 Tooth, 50mm, 1-3/4" Sprocket | 6. 5" Flanged Roller |
| 7. 12 Tooth, 50mm, 1-3/4" Sprocket | 8. Inner Chain (Belted) |
| 9. Outer Chain (Belted) | |

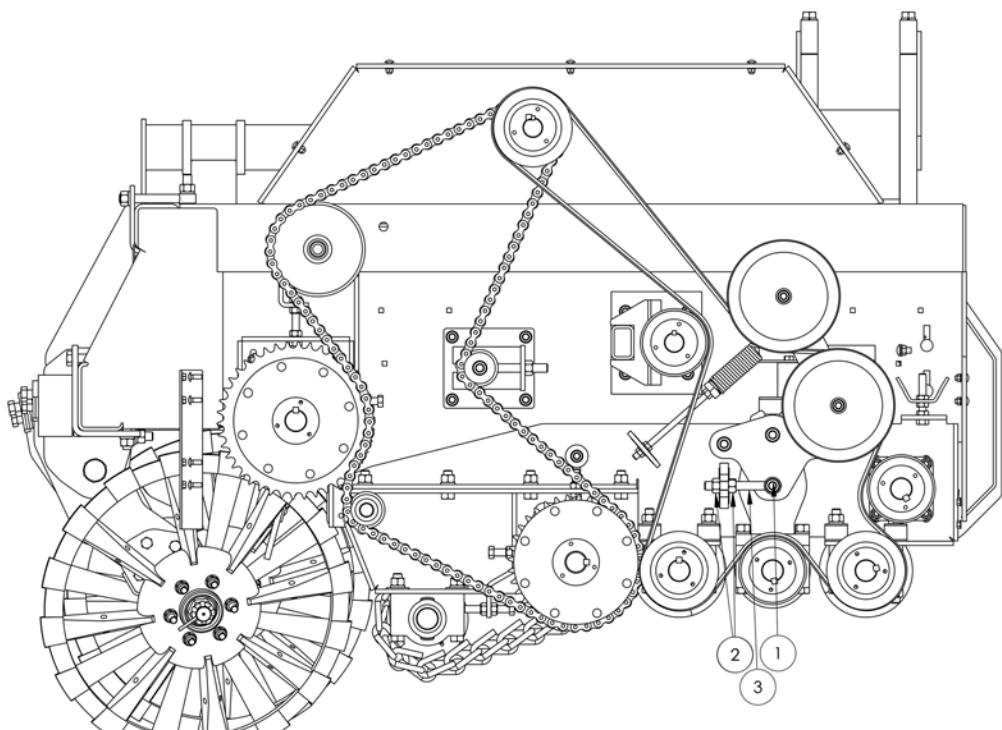
Figure 36. Roller Components (Elevator)

Owner Service Continued



| | |
|------------------------------------|-------------------------|
| 1. 5" Roller | 2. Standoff |
| 3. 7" Smooth Sprocket | 4. 6" Nose Roller |
| 5. 10 Tooth, 50mm, 1-3/4" Sprocket | 6. 5" Flanged Roller |
| 7. 12 Tooth, 50mm, 1-3/4" Sprocket | 8. Inner Chain (Belted) |
| 9. Outer Chain (Belted) | |

Figure 37. Roller Components (Elevator)



1. Pivot Bolt
2. Jam Nuts
3. Eye Bolt

Figure 38. Grab Roll
Adjustment

Owner Service Continued

HOLDING TANK CHAIN GLIDES

Replaceable glides in the tank bottom provide wear surfaces for the unloader conveyer chain.

Remove worn or damaged glides and install replacement glides using new hardware.

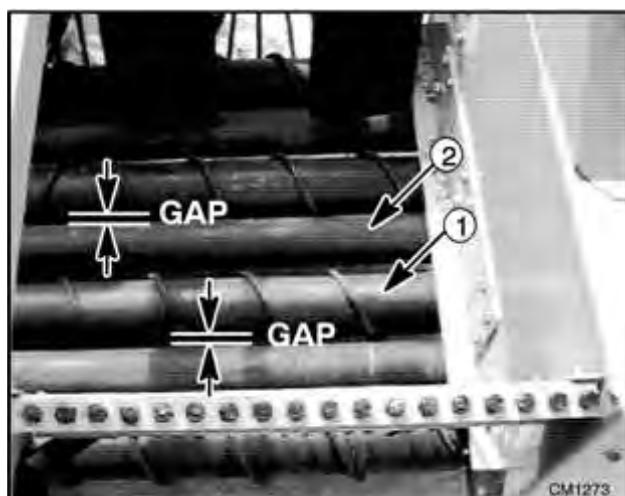
BED CHAIN ADJUSTMENT

To adjust bed chain open front door (both sides). Loosen center bolt in Pivot Bracket. Loosen Adjusting Bolt, adjust Bed Chain to allow 1/2" gap between Bed Chain and lifter wheels. Retighten Hardware.

GRAB ROLL ADJUSTMENT (Figure 38 and Figure 39)

Before working on any components on the right side of the harvester, the truck boom must be fully lowered into transport position with hydraulic pressure relieved or locked in unload position with boom locks installed. Do not work on harvester with truck boom in any intermediate position.

It is important to have an even space on the left and right sides of the harvester between the pairs of grab rolls; however, the individual pairs can have different gaps to accommodate conditions. For instance a wide gap may be helpful on the first pair of rolls to get rid of a lot of soil, and a narrow gap on the last pair may save tails. Spiral rolls are fixed in the grab roll bed.



1. Smooth Roll (Adjustable)
2. Spiral Roll (Fixed)

Figure 39. Grab Roll Gap

Open grab roll drive shields and secure. Loosen the 3/4" nut at the pivot point of the pivot arm bearing holder.

Loosen both 3/4" nuts on the eyebolt and move the smooth roll bearing housing to adjust the gap between the paired rollers. Adjust both sides of each roll pair to the same gap. When all roll pairs are adjusted to the desired gap, tighten all bolts to specifications in Bolt Torque Chart.

Check grab roll drive belt tension and adjust if necessary. (See Grab Roll Drive Belt.)

LIFTER STRUT ADJUSTMENT

Lifter struts should be adjusted to match the row spacing of the beets being harvested. When struts are moved, paddles must be adjusted to prevent contact between paddles and lifter wheels.

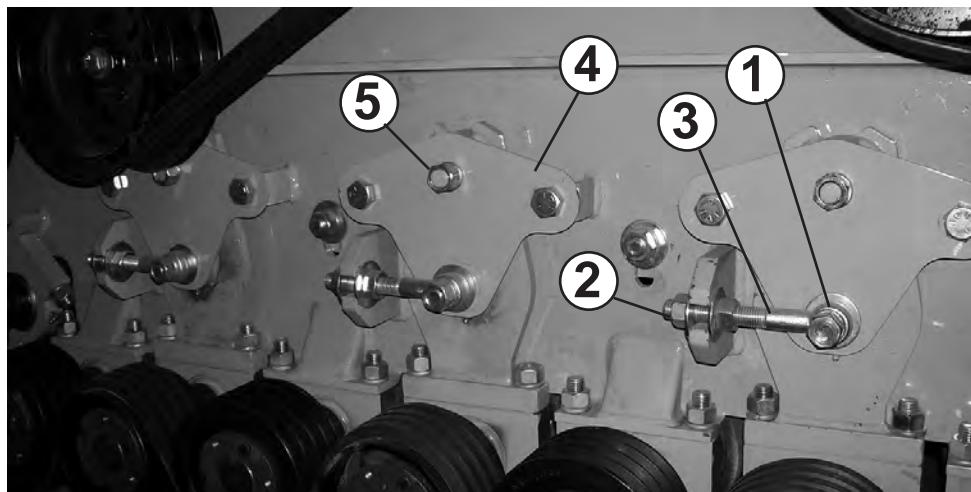
Raise harvester and install transport locks (See Blocking Method).

Loosen strut mounting bolts. Slide strut to new location and tighten evenly. When moving strut, it may be necessary to loosen paddle support on paddle shaft to allow strut to be moved.

Measure to confirm correct row spacing and tighten to specifications in Bolt Torque Chart, page 13 (standard struts). Tighten optional flex strut cushion bolts to 100 lbs./ft.

Adjust paddles and paddle shaft (see Paddle Shaft Adjustment, page 42).

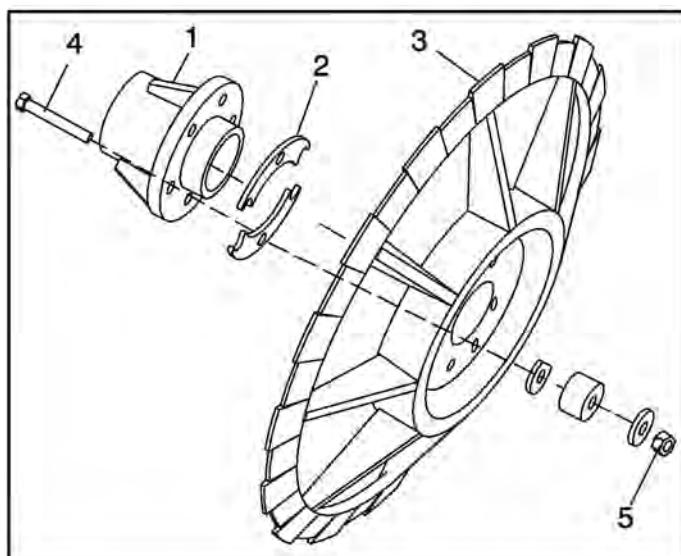
Owner Service Continued



- 1. Pivot Bolts
- 2. Jam Nuts
- 3. Eye-Bolts
- 4. Tie Bar
- 5. Cushion Retaining Bolts

Figure 40. Grab Roll Cushions

LIFTER WHEEL FILLERS



- 1. Hub
- 2. Spacer
- 3. Lifter Wheel
- 4. Wheel Bolt
- 5. Wheel Nut
- 6. Washer
- 7. Wheel Cushion *
- 8. Notched Spacer *

* - Optional

Fig 41. Install Lifter Wheel Spacers

Harvesting small beets may require the use of optional fillers to prevent beets from being lost through lifter wheel spokes.

Raise harvester and install transport locks.

Remove two opposite wheel nuts from each lifter wheel.

Attach wheel fillers to the lifter wheel with a filler rod between each wheel spoke.

Re-install wheel nuts and tighten to specifications in Bolt Torque Chart.

PADDLE SHAFT ADJUSTMENT

The paddle shaft may be adjusted to provide proper movement of beets onto the chain bed. Paddle assemblies are adjustable side-to-side to maintain an equal gap between lifter wheels. The paddle shaft may be adjusted vertically to move paddles closer to the lifter wheels. The paddle assemblies must be adjusted after any movement of lifter wheels or struts. When using flex struts, paddle shaft must be raised to the uppermost position so that wheels cannot contact paddle shaft when strut is moved rearward by contact with a rock.

Owner Service Continued

Raise harvester and install transport locks (see Blocking Method, page 28). Loosen paddle assemblies on paddle shaft and adjust so that each paddle is centered between the lifter wheels.

Tighten paddle assembly bolts to specifications in Bolt Torque Chart, page 15.

Loosen paddle shaft bearing housings and lift or lower shaft to provide 2-1/2" clearance between paddle shaft and lifter wheels. With flex struts installed, paddle shaft must be placed in the uppermost position. Clearance must be at least 2-1/2" to allow for strut movement.

Tighten paddle shaft bearing housings to specifications in Bolt Torque Chart, page 15.

ELECTRICAL SYSTEM

The harvester is equipped with a SAE J560a 7-pin electrical connector. This provides power for turn signals, warning flashers, row finder override, boom fold selector switch, and optional rear steering switch.

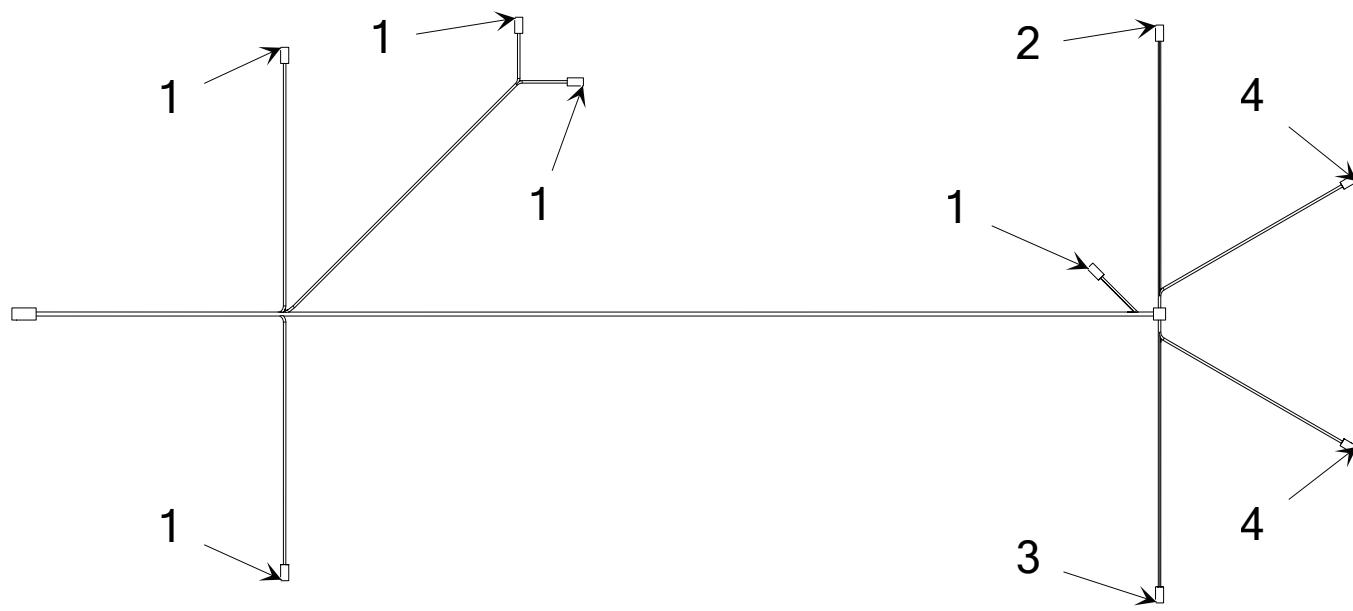
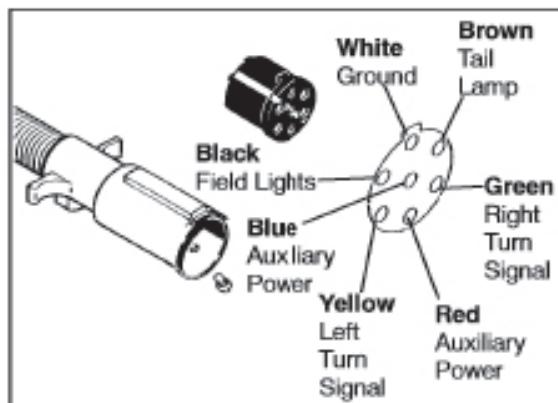


Figure 46. Harvester Wire Harness

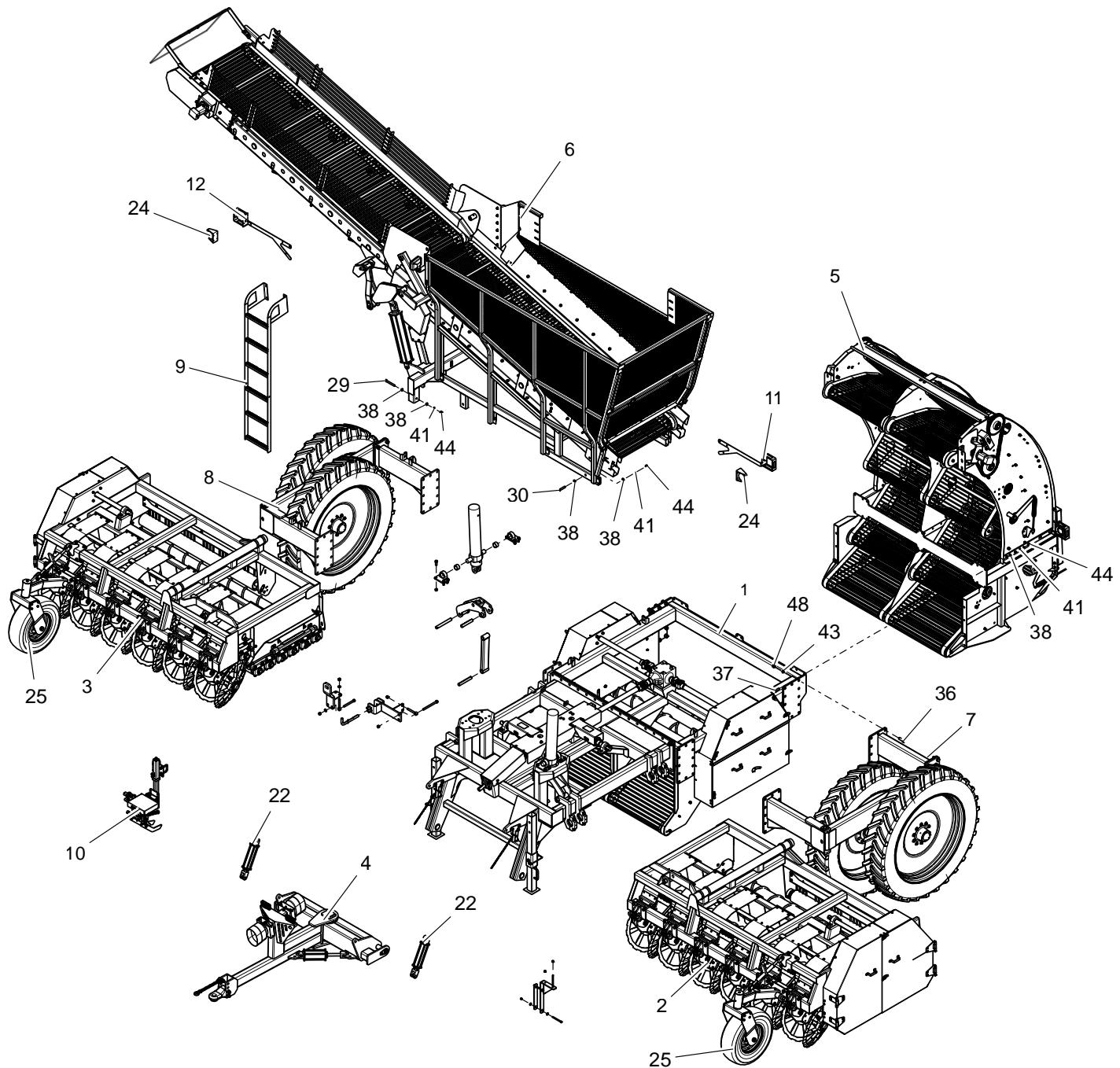


PARTS INDEX

FOLDING BEET HARVESTER

| | |
|--|-----------|
| HARVESTER COMPONENTS | 44 - 47 |
| CENTER FRAME COMPONENTS | 48 - 49 |
| CENTER SECTION DOOR COMPONENTS..... | 50 - 51 |
| CENTER SECTION DRIVE COMPONENTS | 52 - 55 |
| CENTER CHAIN BED & GRAB ROLL COMPONENTS..... | 56 - 57 |
| WALKING TANDEM & REAR STEER COMPONENTS | 58 - 63 |
| WING FRAME COMPONENTS | 64 - 65 |
| WING DOOR COMPONENTS..... | 66 - 67 |
| WING DRIVE COMPONENTS | 68 - 71 |
| WING GRAB ROLL COMPONENTS | 72 - 73 |
| WING CHAIN BED COMPONENTS | 74 - 81 |
| HITCH COMPONENTS | 82 - 83 |
| ELEVATOR COMPONENTS | 84 |
| ELEVATOR ROLLER COMPONENTS | 85 |
| UPPER ELEVATOR COMPONENTS | 86 - 87 |
| LOWER ELEVATOR COMPONENTS | 88 - 89 |
| TANK COMPONENTS | 90 - 91 |
| TANK FRAME COMPONENTS | 92 - 93 |
| TANK CONVEYOR COMPONENTS | 94 - 95 |
| BOOM CONVEYOR COMPONENTS | 96 - 97 |
| ADJUSTABLE DIGGER STRUT COMPONENTS | 100 - 103 |
| CUSHIONED DIGGER STRUT COMPONENTS | 104 - 105 |
| STABILIZER WHEEL HUB COMPONENTS | 96 |
| DIGGER STRUT HUB COMPONENTS | 97 |
| WHEEL HUB COMPONENTS | 98 |
| LIGHT KIT COMPONENTS | 99 |
| ROWFINDER COMPONENTS | 100 - 101 |
| STABILIZER WHEEL COMPONENTS | 102 |
| WING DRIVE SHAFT COMPONENTS | 103 |
| 1-3/8" PTO DRIVE SHAFT COMPONENTS | 104 |
| 1-3/4" PTO DRIVE SHAFT COMPONENTS | 105 |
| HITCH JUMP DRIVE SHAFT COMPONENTS | 106 |

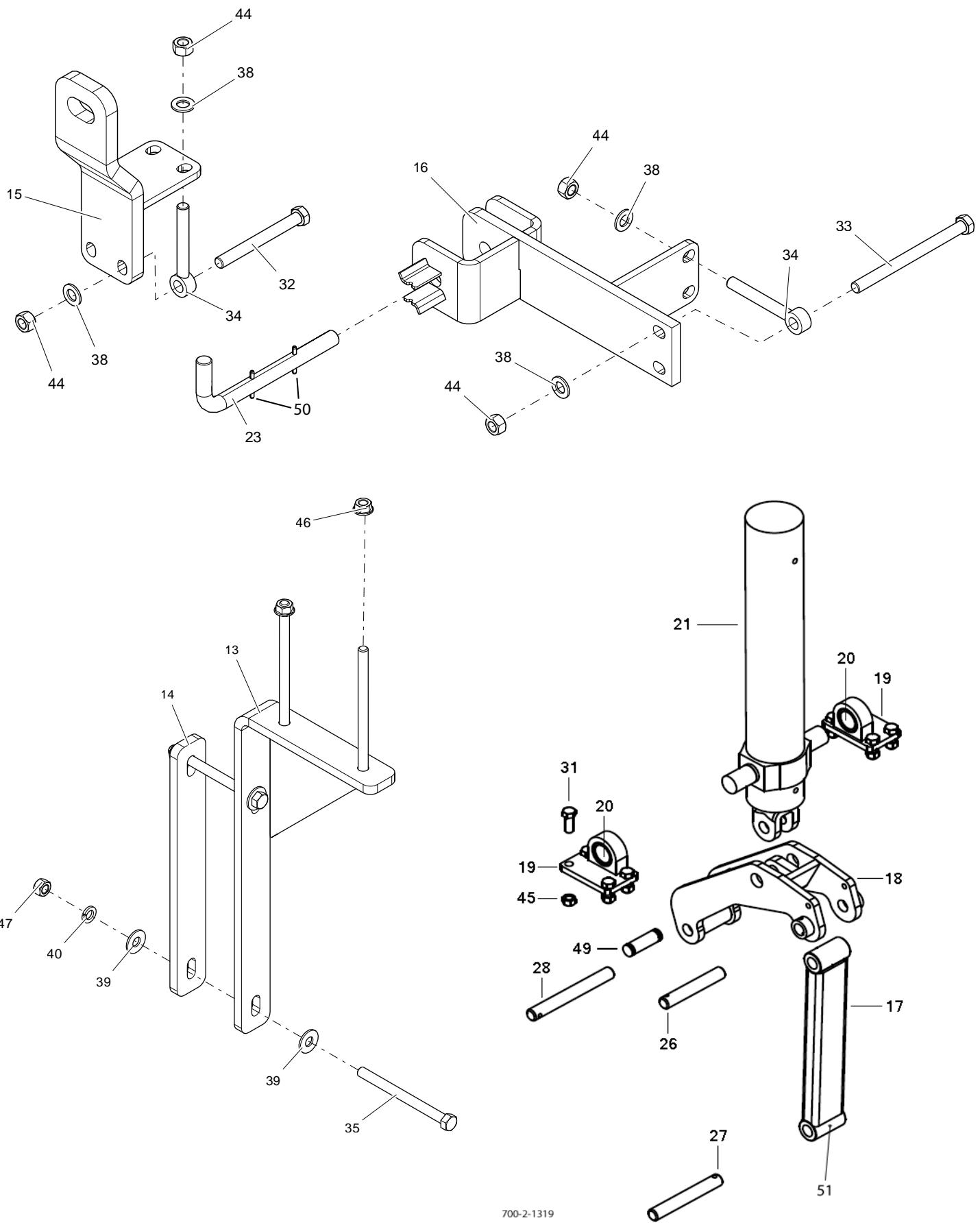
HARVESTER COMPONENTS



HARVESTER COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|-----------------------------------|------|
| 1 | 700-2-1405 | CENTER FRAME ASSY- LONG CHAIN BED | 1 |
| 2 | 700-2-1311 | WING, ALL GRAB ROLLS (LH) | 1 |
| 3 | 700-2-1312 | WING, ALL GRAB ROLLS (RH) | 1 |
| 4 | 700-2-0545 | HITCH | 1 |
| 5 | 700-2-0886 | ELEVATOR | 1 |
| 6 | 700-2-1335 | TANK | 1 |
| 7 | 700-2-1030 | WALKING TANDEM STRUT (LH) | 1 |
| 8 | 700-2-1031 | WALKING TANDEM STRUT (RH) | 1 |
| 9 | 700-2-1178 | LADDER | 1 |
| 10 | 700-1-0094 | ROW FINDER KIT | 1 |
| 11 | 700-3-2994 | LIGHT MOUNT TANK | 2 |
| 12 | 904-01346 | TRILLIANT WORK LIGHT | 2 |
| 13 | 700-2-0996 | WHEEL FILLER HOLDER | 1 |
| 14 | 700-3-2648 | BACKER PLATE | 1 |
| 15 | 700-2-1096 | WING LOCK | 1 |
| 16 | 700-2-1097 | WING LOCK ANCHOR | 1 |
| 17 | 500-2-0954 | PIVOT TUBE | 1 |
| 18 | 700-2-0569 | LINK ARM | 1 |
| 19 | 700-2-0813 | CYLINDER BLOCK | 4 |
| 20 | 700-3-2038 | BUSHING | 4 |
| 21 | 905-21435 | CYLINDER, 5 x 24 | 1 |
| 22 | 905-21391 | CYLINDER, 3 x 10 | 2 |
| 23 | 700-3-2484 | HINGE PIN SHAFT | 1 |
| 24 | 904-01154 | AMBER LAMP | 2 |
| 25 | 700-2-0981 | FRONT STABILIZER WHEEL | 2 |
| 26 | 700-3-2604 | WING FOLD PIN | 1 |
| 27 | 700-3-2605 | WING HINGE PIN | 1 |
| 28 | 700-3-2622 | WING FOLD PIN | 1 |
| 29 | 900-01427 | BOLT, 3/4 NC x 6 | - |
| 30 | 900-01419 | BOLT, 3/4 NC x 4 | - |
| 31 | 900-01403 | BOLT, 3/4 NC x 2 | - |
| 32 | 900-01431 | BOLT, 3/4 NC x 7 | - |
| 33 | 900-01441 | BOLT, 3/4 NC x 9-1/2 | - |
| 34 | 900-03463 | EYE BOLT, 3/4 NC x 6 | - |
| 35 | 900-01253 | BOLT, 1/2 NC x 6 | - |
| 36 | 900-01519 | BOLT, 1 NC x 3 | 80 |
| 37 | 900-01407 | BOLT, 3/4 NC x 2-1/2 | - |
| 38 | 900-11038 | WASHER, 3/4 | - |
| 39 | 900-11035 | WASHER, 1/2 | - |
| 40 | 900-11013 | LOCK WASHER, 1/2 | - |
| 41 | 900-11017 | LOCK WASHER, 3/4 | - |
| 42 | 905-15024 | ZERK 1/4-28 UNF STRAIGHT | 2 |
| 43 | 900-11021 | LOCK WASHER, 1 | 80 |
| 44 | 900-06015 | NUT, 3/4 NC | - |
| 45 | 900-06510 | TOP LOCK NUT, 3/4 NC | - |
| 46 | 900-06143 | SPIRALOCK NUT, 1/2 NC | - |
| 47 | 900-06009 | NUT, 1/2 NC | - |
| 48 | 900-06019 | NUT, 1 NC | 80 |
| 49 | 700-3-2959 | TRUNION PIN (PRINCE #190600016) | 1 |
| 50 | 900-29182 | 1/4 X 2 ROLL PIN | 2 |

HARVESTER COMPONENTS

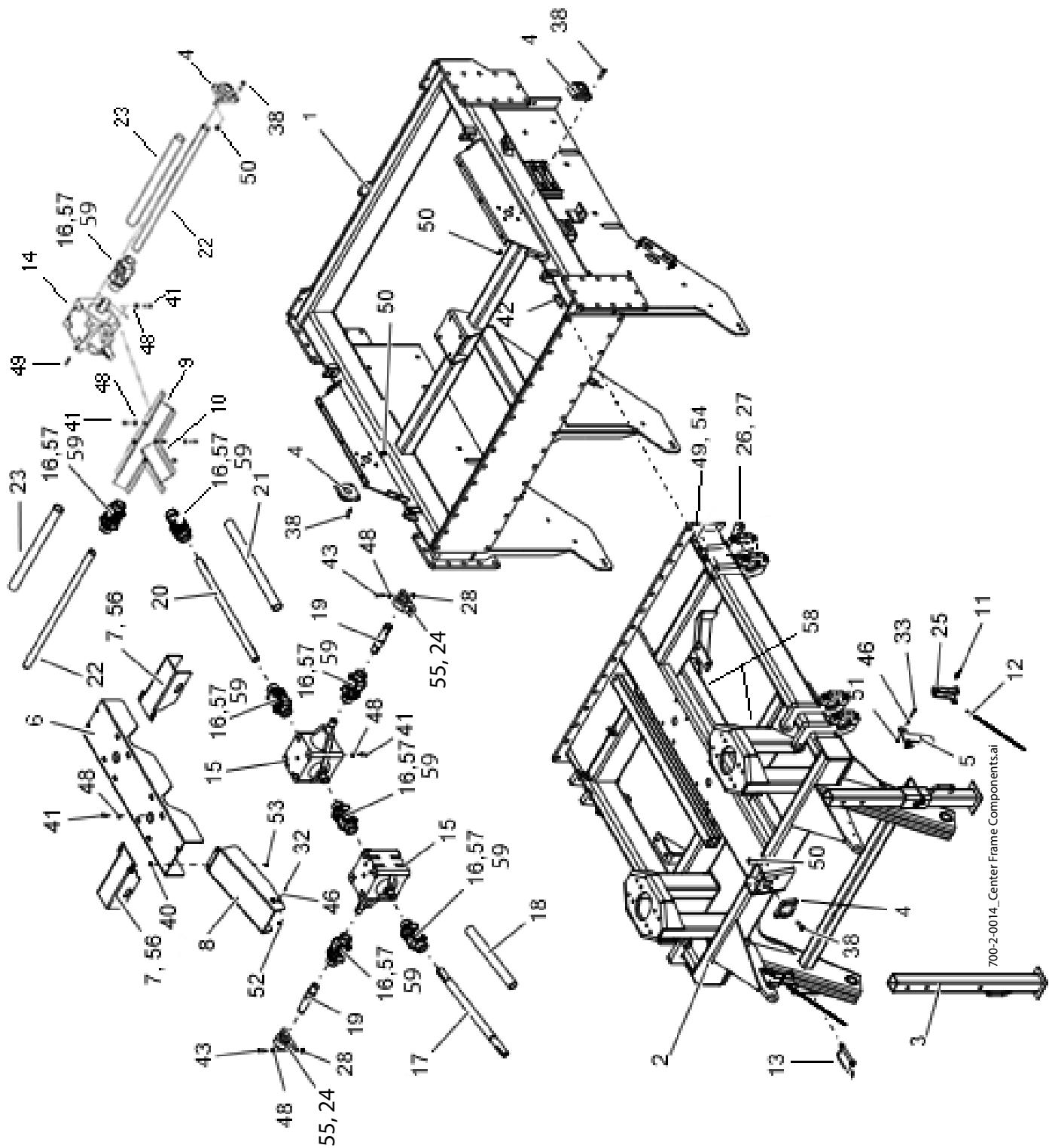


700-2-1319

HARVESTER COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---------------------------------|------|
| 1 | 700-2-1320 | CENTER FRAME | 1 |
| 2 | 700-2-1311 | WING, ALL GRAB ROLLS (LH) | 1 |
| 3 | 700-2-1312 | WING, ALL GRAB ROLLS (RH) | 1 |
| 4 | 700-2-0545 | HITCH | 1 |
| 5 | 700-2-0886 | ELEVATOR | 1 |
| 6 | 700-2-1335 | TANK | 1 |
| 7 | 700-2-1030 | WALKING TANDEM STRUT (LH) | 1 |
| 8 | 700-2-1031 | WALKING TANDEM STRUT (RH) | 1 |
| 9 | 700-2-1178 | LADDER | 1 |
| 10 | 700-1-0094 | ROW FINDER KIT | 1 |
| 11 | 700-3-2994 | LIGHT MOUNT TANK | 2 |
| 12 | 904-01346 | TRILLIANT WORK LIGHT | 2 |
| 13 | 700-2-0996 | WHEEL FILLER HOLDER | 1 |
| 14 | 700-3-2648 | BACKER PLATE | 1 |
| 15 | 700-2-1096 | WING LOCK | 1 |
| 16 | 700-2-1097 | WING LOCK ANCHOR | 1 |
| 17 | 500-2-0954 | PIVOT TUBE | 1 |
| 18 | 700-2-0569 | LINK ARM | 1 |
| 19 | 700-2-0813 | CYLINDER BLOCK | 4 |
| 20 | 700-3-2038 | BUSHING | 4 |
| 21 | 905-21435 | CYLINDER, 5 x 24 | 1 |
| 22 | 905-21391 | CYLINDER, 3 x 10 | 2 |
| 23 | 700-3-2484 | HINGE PIN SHAFT | 1 |
| 24 | 904-01154 | AMBER LAMP | 2 |
| 25 | 700-2-0981 | FRONT STABILIZER WHEEL | 2 |
| 26 | 700-3-2604 | WING FOLD PIN | 1 |
| 27 | 700-3-2605 | WING HINGE PIN | 1 |
| 28 | 700-3-2622 | WING FOLD PIN | 1 |
| 29 | 900-01427 | BOLT, 3/4 NC x 6 | - |
| 30 | 900-01419 | BOLT, 3/4 NC x 4 | - |
| 31 | 900-01403 | BOLT, 3/4 NC x 2 | - |
| 32 | 900-01431 | BOLT, 3/4 NC x 7 | - |
| 33 | 900-01441 | BOLT, 3/4 NC x 9-1/2 | - |
| 34 | 900-03463 | EYE BOLT, 3/4 NC x 6 | - |
| 35 | 900-01253 | BOLT, 1/2 NC x 6 | - |
| 36 | 900-01519 | BOLT, 1 NC x 3 | 80 |
| 37 | 900-01407 | BOLT, 3/4 NC x 2-1/2 | - |
| 38 | 900-11038 | WASHER, 3/4 | - |
| 39 | 900-11035 | WASHER, 1/2 | - |
| 40 | 900-11013 | LOCK WASHER, 1/2 | - |
| 41 | 900-11017 | LOCK WASHER, 3/4 | - |
| 42 | 905-15024 | ZERK 1/4-28 UNF STRAIGHT | 2 |
| 43 | 900-11021 | LOCK WASHER, 1 | 80 |
| 44 | 900-06015 | NUT, 3/4 NC | - |
| 45 | 900-06510 | TOP LOCK NUT, 3/4 NC | - |
| 46 | 900-06143 | SPIRALOCK NUT, 1/2 NC | - |
| 47 | 900-06009 | NUT, 1/2 NC | - |
| 48 | 900-06019 | NUT, 1 NC | 80 |
| 49 | 700-3-2959 | TRUNION PIN (PRINCE #190600016) | 1 |
| 50 | 900-29182 | 1/4 X 2 ROLL PIN | 2 |

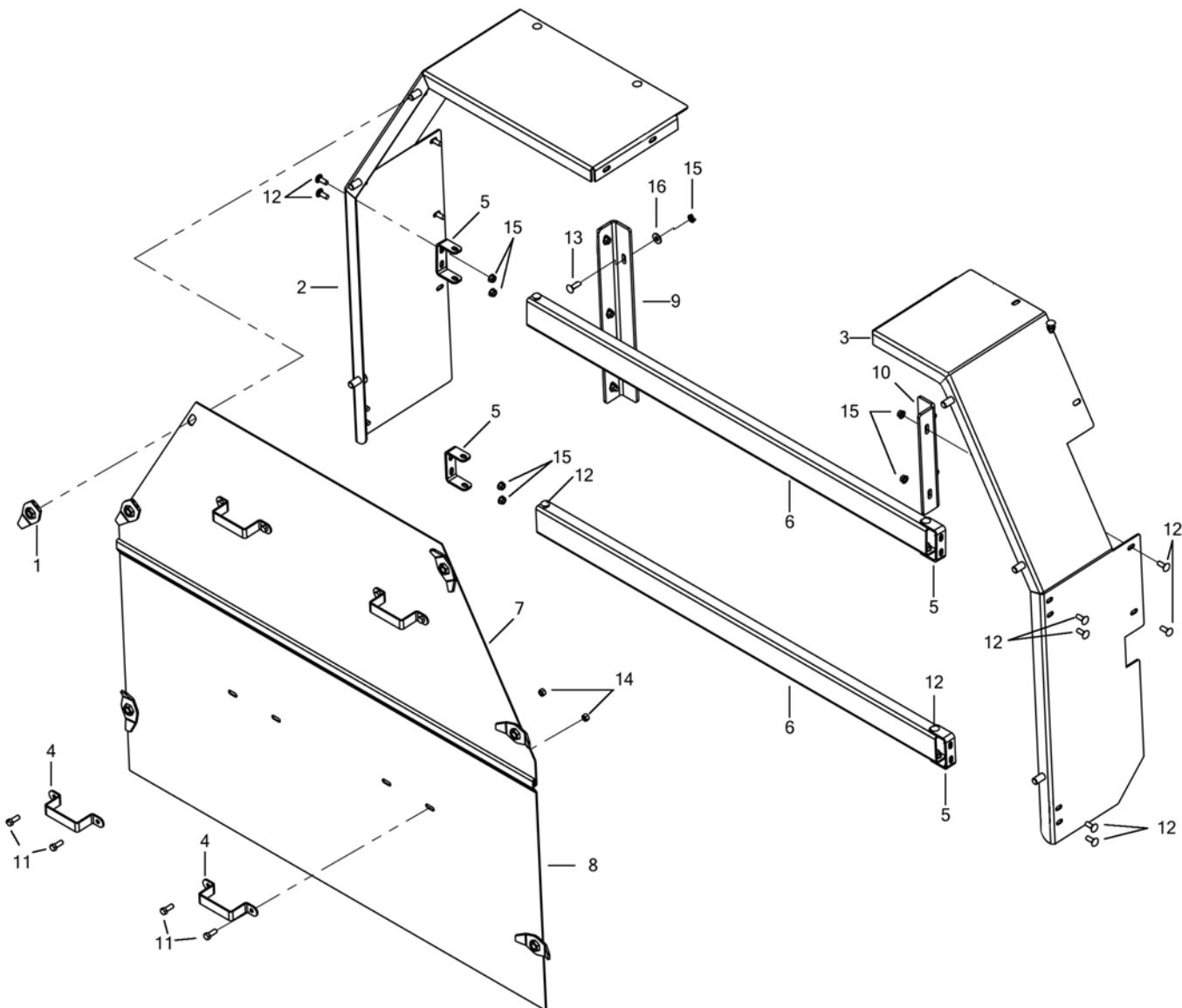
CENTER FRAME COMPONENTS



CENTER FRAME COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|---------------|---|------|
| 1 | 700-2-1403 | REAR FRAME WELD - 1222 FOLDING HARVESTER | 1 |
| 2 | 700-2-1158 | FRONT FRAME WELD - 1222 FOLDING HARVESTER | 1 |
| 3 | 700-2-0990 | PARKING STAND (12 ROW FOLD) | 2 |
| 4 | 901-01185 | BEARING - NANFS 209-28 1.75 | 3 |
| 5 | 700-3-2958 | CYLINDER STOP BRACKET | 2 |
| 6 | 700-3-2636 | SHIELD - GEARBOX | 1 |
| 7 | 700-3-2992 | HARV KNUCKLE SHIELD | 2 |
| 8 | 700-3-2637 | SHIELD - FRONT SHAFT | 1 |
| 9 | 700-3-3273 | GUARD - U-JOINT | 1 |
| 10 | 700-3-3274 | GUARD - U-JOINT (FRONT) | 1 |
| 11 | 900-42055 | SNAPPER PIN .25 X 2.50 USABLE LENGTH | 2 |
| 12 | 500-3-2858 | FUD RETAINING CHAIN | 2 |
| 13 | 900-42066 | LOCK UP PIN - 3/4 X 6 | 2 |
| 14 | 903-15520 | G-BOX - SUPERIOR | 1 |
| 15 | 903-15581 | GEARBOX | 2 |
| 16 | 903-05034 | U-JOINT - 1.75 KEYED 44R | 8 |
| 17 | 700-3-2383 | FRONT DRIVE SHAFT - 12 ROW MAINE FRAME | 1 |
| 18 | 700-3-2861 | FRONT DRIVE SHAFT SHIELD | 1 |
| 19 | 700-3-2608 | SIDE DRIVE SHAFT - 12 ROW MAIN FRAME | 2 |
| 20 | 700-3-2403 | REAR DRIVE SHAFT - 12 ROW MAIN FRAME | 1 |
| 21 | 700-3-2856 | REAR DRIVE SHAFT SHIELD | 1 |
| 22 | 700-3-1432 | SIDE DRIVE SHAFT - 12 ROW | 2 |
| 23 | 700-3-2857 | SIDE DRIVE SHAFT SHIELD | 2 |
| 24 | 901-01272 | BRG 1.75 PILLOW BLOCK (ECCENTRIC LOCK COLLAR) | 2 |
| 25 | 700-2-0159 | CYLINDER STOP, SHORT, WELDMENT | 2 |
| 26 | 900-01417Rev2 | 3/4-10 X 3.75 HEX BOLT | 16 |
| 27 | 900-11017Rev2 | WASHER LOCK 3/4 | 16 |
| 28 | 900-06143 | NUT WHIZ 1/2-13 NC GRD 5 ZP | |
| 32 | 900-01109 | BOLT HH 3/8-16 NC X 1 GRD 5 | |
| 33 | 900-01117 | BOLT HH 3/8-16 NC X 2 GRD 5 | 4 |
| 38 | 900-01345 | BOLT HH 5/8-11 NC X 2 GRD 5 ZP | 12 |
| 40 | 900-01695 | CARRIAGE BOLT 3/8 NC X 1 ZP | |
| 41 | 900-01225 | BOLT HH 1/2-13 NC X 1-1/2 GRD 5 | 8 |
| 42 | 900-01519 | BOLT HH 1-8 x 3 GRD 5 ZP | 30 |
| 43 | 900-01229 | BOLT HH 1/2-13 NC X 2 GRD 5 | 4 |
| 46 | 900-11033 | WASHER FLAT 3/8 ZP | 4 |
| 48 | 900-11035 | WASHER FLAT 1/2 | |
| 49 | 900-11021 | WASHER LOCK 1 | 30 |
| 50 | 900-06145 | NUT WHIZ 5/8-11 NC | 12 |
| 51 | 900-06006 | NUT HEX 3/8-24 NF ZP | 4 |
| 52 | 900-06005 | NUT HEX 3/8 SS | |
| 53 | 900-06139 | NUT WHIZ 3/8-16 NC | |
| 54 | 900-06019 | NUT HEX 1-8 NC | 30 |
| 55 | 905-15024 | ZERK 1/4-28 UNF STRAIGHT | |
| 56 | 100-3-1367 | DECAL - SAFETY GUARD DO NOT REMOVE | |
| 57 | 100-3-3333 | KEY - 3/8 X 3/8 X 2 | |
| 58 | 700-3-3036 | SPACER PLATE - HARV WING ANGLE W/ PAINT | |
| 59 | 903-17525 | CROSS KIT - WSLR #44R | |
| | 700-2-1319 | FRONT FRAME ASSY | |
| | 700-2-1404 | REAR FRAME ASSY - LONG CHAIN BED 12R22 | |
| | 700-2-1405 | CENTER FRAME ASSY-LONG CHAIN BED 12R22 | |

CENTER SECTION DOOR COMPONENTS

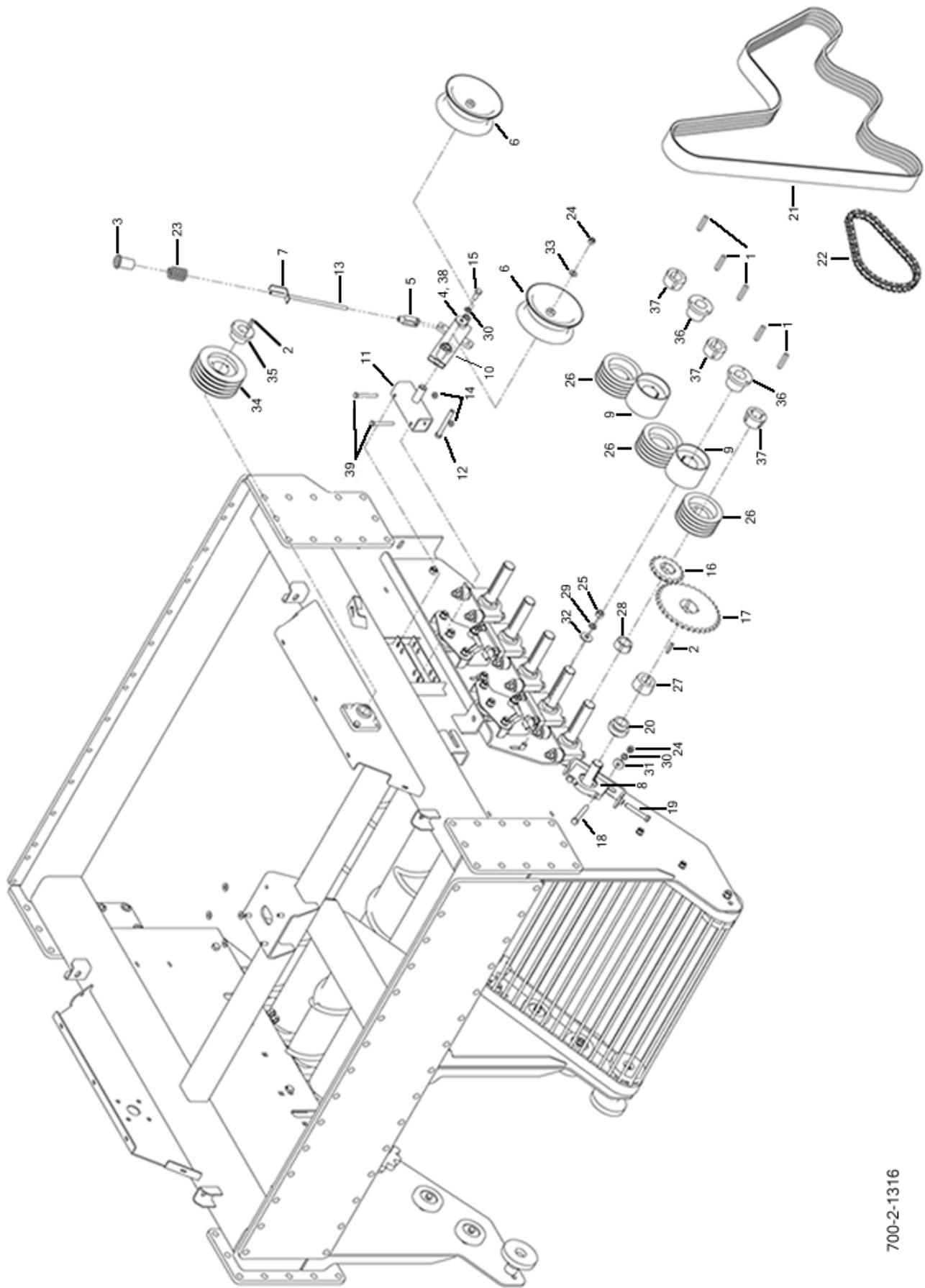


700-2-1100

CENTER SECTION DOOR COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|-------------------------------------|------|
| 1 | 700-2-1051 | SHIELD WING NUT | 12 |
| 2 | 700-2-1098 | FRONT SHIELD (LH) | 1 |
| | 700-2-1101 | FRONT SHIELD (RH) | 1 |
| 3 | 700-2-1099 | BACK SHIELD (LH) | 1 |
| | 700-2-1102 | BACK SHIELD (RH) | 1 |
| 4 | 700-3-2515 | SHIELD HANDLE | 8 |
| 5 | 700-3-2520 | DOOR STOP | 8 |
| 6 | 700-3-2878 | SUPPORT CHANNEL | 4 |
| 7 | 700-3-2879 | TOP SHIELD (LH) | 1 |
| | 700-3-2887 | TOP SHIELD (RH) | 1 |
| 8 | 700-3-2880 | BOTTOM SHIELD (LH) | 1 |
| | 700-3-2888 | BOTTOM SHIELD (RH) | 1 |
| 9 | 700-3-2881 | SHIELD BRACKET FRONT | 2 |
| 10 | 700-3-2882 | SHIELD BRACKET BACK | 2 |
| 11 | 900-01109 | BOLT, 3/8 NC x 1 | - |
| 12 | 900-01695 | CARRIAGE BOLT, 3/8 NC x 1 | - |
| 13 | 900-01696 | CARRIAGE BOLT, 3/8 NC x 1-1/4 | - |
| 14 | 900-06005 | NUT, 3/8 NC | - |
| 15 | 900-06139 | SPIRALOCK NUT, 3/8 NC | - |
| 16 | 900-11033 | WASHER, 3/8 | - |
| | 700-2-1100 | DOOR ASSEMBLY - GRAB ROLL SHIELD LH | |
| | 700-2-1103 | DOOR ASSEMBLY - GRAB ROLL SHIELD RH | |

CENTER SECTION DRIVE COMPONENTS

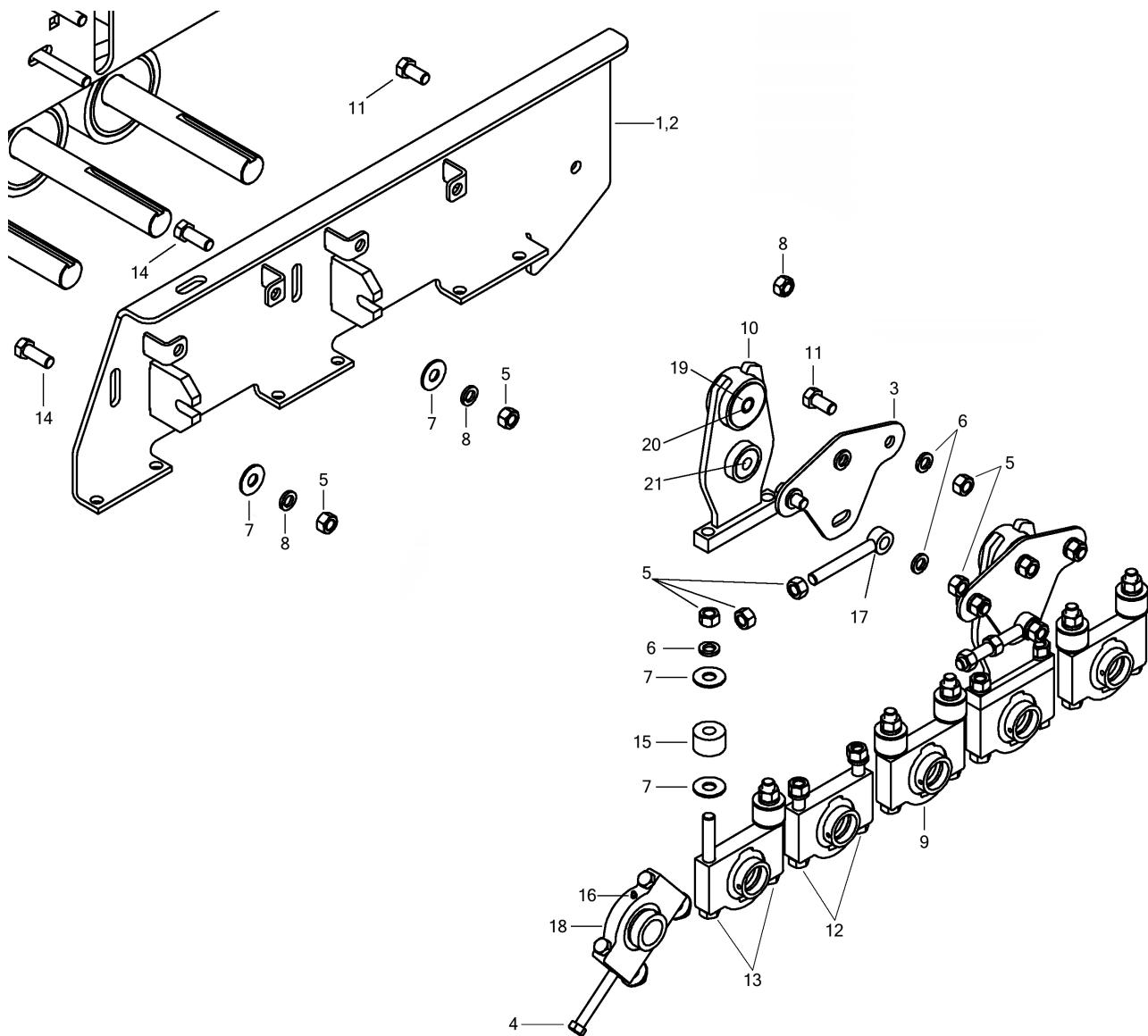


700-2-1316

CENTER SECTION DRIVE COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--|------|
| 1 | 100-3-3331 | KEY - 1/2 X 1/2 X 3 | 5 |
| 2 | 100-3-3333 | KEY - 3/8 X 3/8 X 2 | 2 |
| 3 | 500-2-0580 | SPRING SUPPORT WELD | 1 |
| 4 | 500-3-1246 | SPECIAL WASHER | 1 |
| 5 | 500-3-1247 | CLEVIS | 1 |
| 6 | 500-3-1249 | PULLEY - 8 OD X 3.25 X .63 ID FLANGED (DON DYE)PAINTED | 2 |
| 7 | 500-3-1255 | SIGHT GAGE | 1 |
| 8 | 700-2-0061 | BEARING BLOCK 1-3/4 W/GREASE FITTING | 6 |
| 9 | 700-2-0267 | PULLEY WELD - 6 INCH | 3 |
| 10 | 700-2-0930 | PIVOT ARM - TENSIONER | 1 |
| 11 | 700-2-0991 | PIVOT BASE WELD CENTER - 12 ROW | 1 |
| 12 | 900-01367 | SCREW, CAP 5/8 X 5-1/2 UNC | 3 |
| 13 | 700-3-2596 | THREADED ROD | 1 |
| 14 | 900-06143 | 1/2 NC SPIRALOCK NUT ZP GR5 | 2 |
| 15 | 900-01341 | HEX BOLT 5/8 NC X 1-1/2 NC GR5 ZP | 1 |
| 16 | 903-11098 | SPROCKET 80BTL17H (2012 HUB) | 1 |
| 17 | 903-11104 | SPROCKET 80BTL34H (2517 HUB) | 1 |
| 18 | 900-01365 | HEX BOLT 5/8 NC X 14 | 6 |
| 19 | 900-01362 | HEX BOLT 5/8 - 11 X 4 GRADE 5 (FULL THREAD) | 1 |
| 20 | 901-01186 | 1-3/4 INSERT BRG NA-209-28 | 6 |
| 21 | 903-01450 | BELT, 4B162 12 ROW FOLD HARV | 1 |
| 22 | 903-03185 | FRAME DRIVE CHAIN - 46" #80 | 1 |
| 23 | 905-14005 | SPRING - 2.25 OD X .25 WIRE X 5.25 FL X 7.25 COILS | 1 |
| 24 | 900-06013 | NUT, HH, 5/8-11, ZP | 2 |
| 25 | 900-06015 | NUT, HH, 3/4-10, ZP | 2 |
| 26 | 903-08482 | PULLEY - 4B66 (2517 TL) | 3 |
| 27 | 903-08471 | BUSHING TAPER LOCK 2517 - 1.75 B | 1 |
| 28 | 903-08412 | BUSHING TAPER LOCK 2012 - 1.75 B | 1 |
| 29 | 900-11017 | WASHER, LOCK, 3/4, ZP | 1 |
| 30 | 900-11015 | WASHER, LOCK, 5/8, ZP | 2 |
| 31 | 900-11037 | WASHER, FLAT, 5/8" | 2 |
| 32 | 900-11038 | 3/4" FLAT WASHER | 1 |
| 33 | 900-11088 | WASHER, FLAT, SAE, 5/8, ZP , HTM ROLLER BED | 2 |
| 34 | 903-08400 | SHEAVE, 6/5V13.2 | 1 |
| 35 | 903-08416 | TYPE SK HUB 1-3/4 BORE | 1 |
| 36 | 903-08449 | BUSHING TAPER LOCK 2517 - 1.93 B | 2 |
| 37 | 903-08452 | TYPE Q1 HUB 1-15/16 BORE | 3 |
| 38 | 901-01122 | BUSHING BRONZE | 2 |
| 39 | 900-01245 | BOLT HH 1/2-13 NC X 4 GRD 5 ZP | 2 |
| 40 | 905-15024 | ZERK 1/4-28 UNF STRAIGHT | |
| | 700-2-1316 | REAR FRAME ASSY - CUSHION (2015) | |

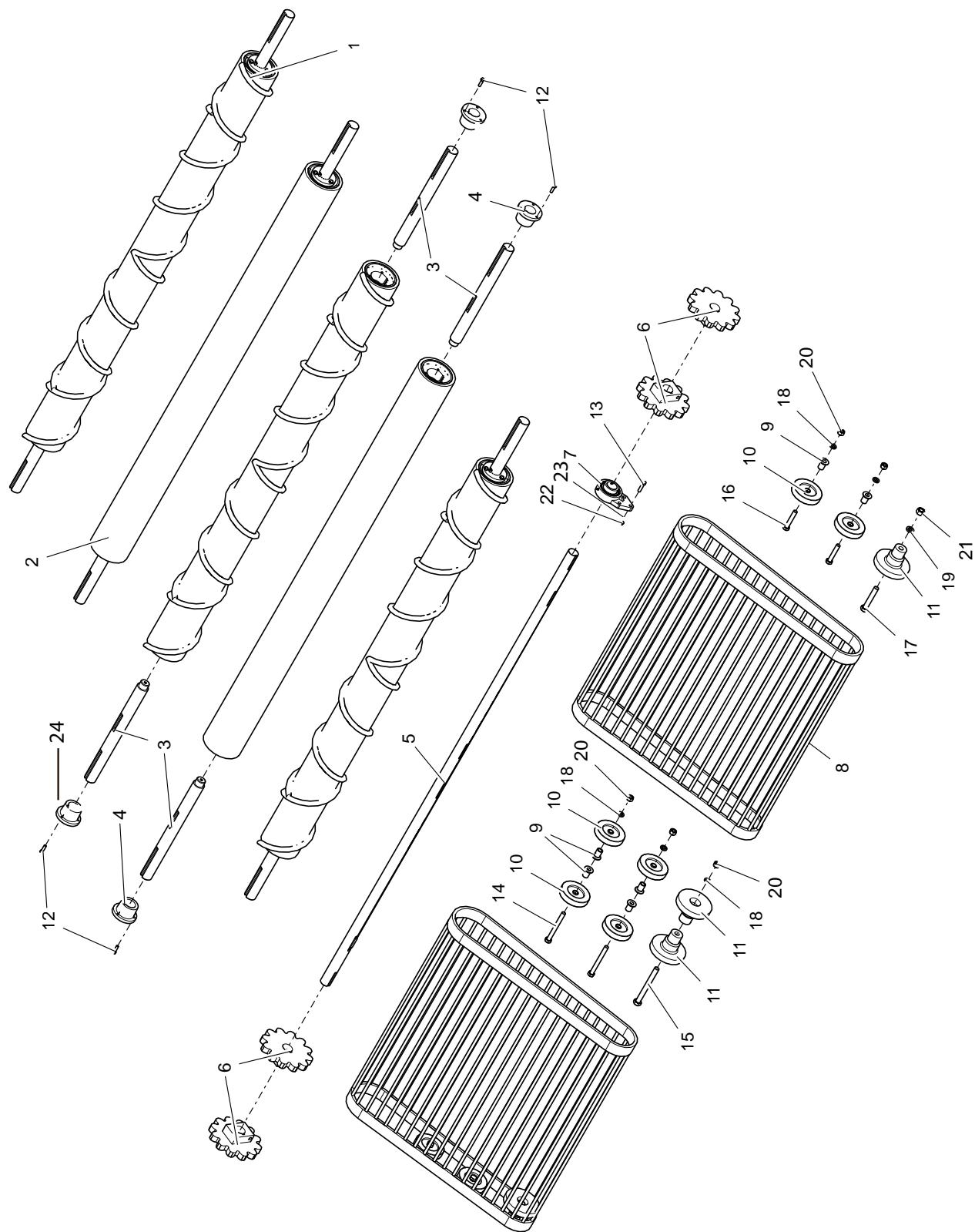
CENTER SECTION DRIVE DETAIL



CENTER SECTION DRIVE DETAIL

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 1 | 700-2-1317 | ADJUSTMENT PLATE WELD LH- CUSHION GRAB ROLL | 1 |
| 2 | 700-2-1318 | ADJUSTMENT PLATE WELD RH- CUSHION GRAB ROLL | 1 |
| 3 | 700-3-0753 | TIE STRAP | 4 |
| 4 | 900-01362 | HEX BOLT 5/8 - 11 X 4 GRADE 5 (FULL THREAD) | 2 |
| 5 | 900-06015 | NUT, HH, 3/4-10, ZP | 36 |
| 6 | 900-11017 | WASHER, LOCK, 3/4, ZP | 36 |
| 7 | 900-11038 | 3/4" FLAT WASHER | 40 |
| 8 | 900-06510 | 3/4 NUT, HEX TOP LOCK | 8 |
| 9 | 700-2-0377 | BEARING BLOCK ASSY - 1.93 W/GREASE FITTING | 12 |
| 10 | 700-2-0375 | SWING ARM WELD (GRABROLL) 1.93 | 4 |
| 11 | 900-01399 | 3/4-NC X 1-1/2 HEX BOLT | 14 |
| 12 | 900-01425 | HEX BOLT - 3/4NC X 5-1/2 GR5 ZP | 12 |
| 13 | 900-01431 | HEX BOLT - 3/4 NC X 7 GR5 | 12 |
| 14 | 900-01403 | HEX BOLT - 3/4NC X 2 GR5 ZP | 2 |
| 15 | 700-3-3457 | CUSHION | 12 |
| 16 | 905-15024 | ZERK 1/4-28 UNF STRAIGHT | 6 |
| 17 | 900-03463 | BOLT, EYE, 3/4" NC X 6" | 4 |
| 18 | 700-2-0061 | BEARING BLOCK 1-3/4 W/GREASE FITTING | 1 |
| 19 | 700-3-0557 | SPACER, GRAB ROLL ARM | 4 |
| 20 | 700-3-0609 | PIVOT BUSHING - SWING ARM | 4 |
| 21 | 700-3-0458 | BUSHING - KNULED | 4 |
| | 700-2-1320 | CENTER FRAME ASSY- CUSHION GRAB ROLL (2016) | |

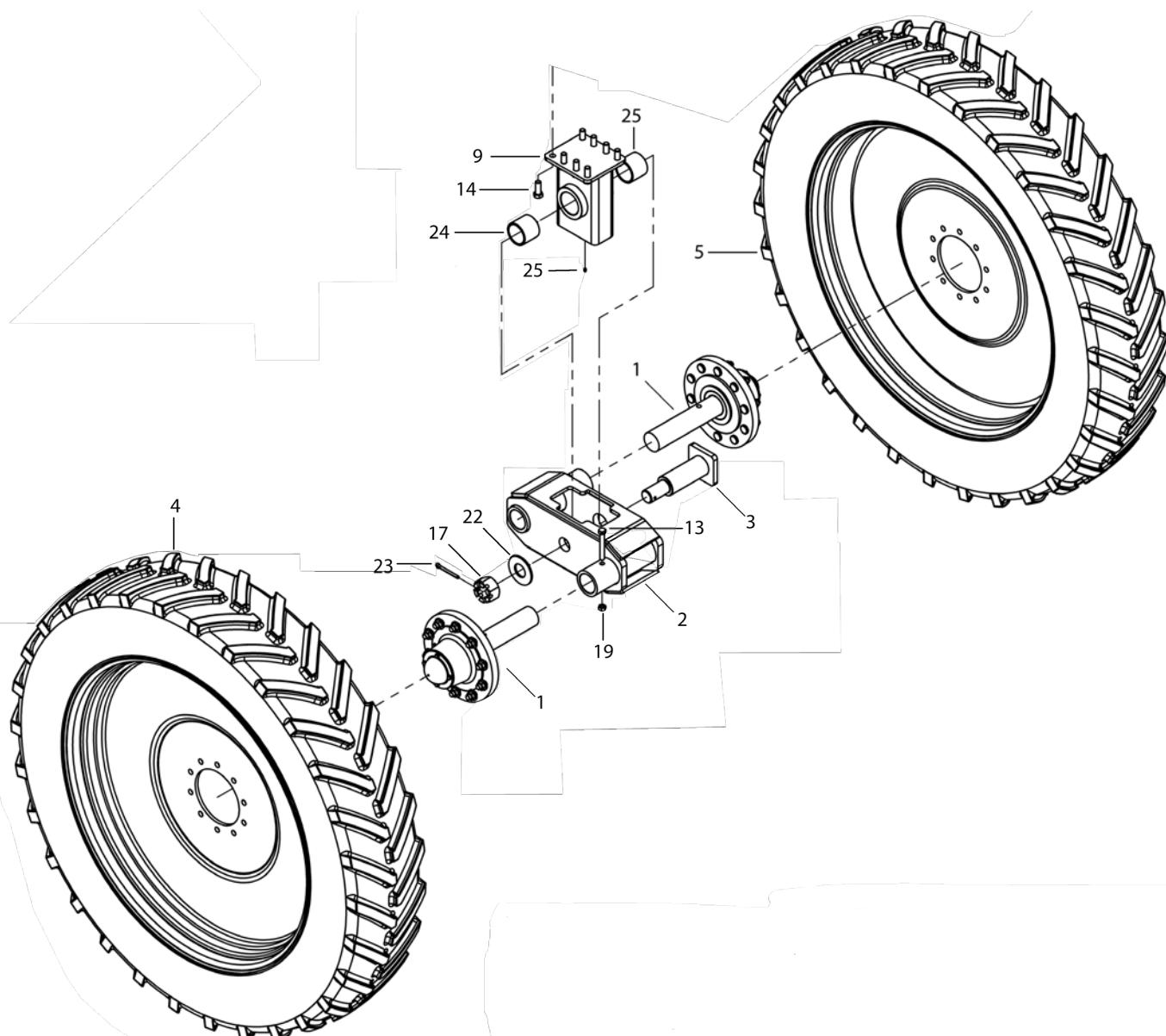
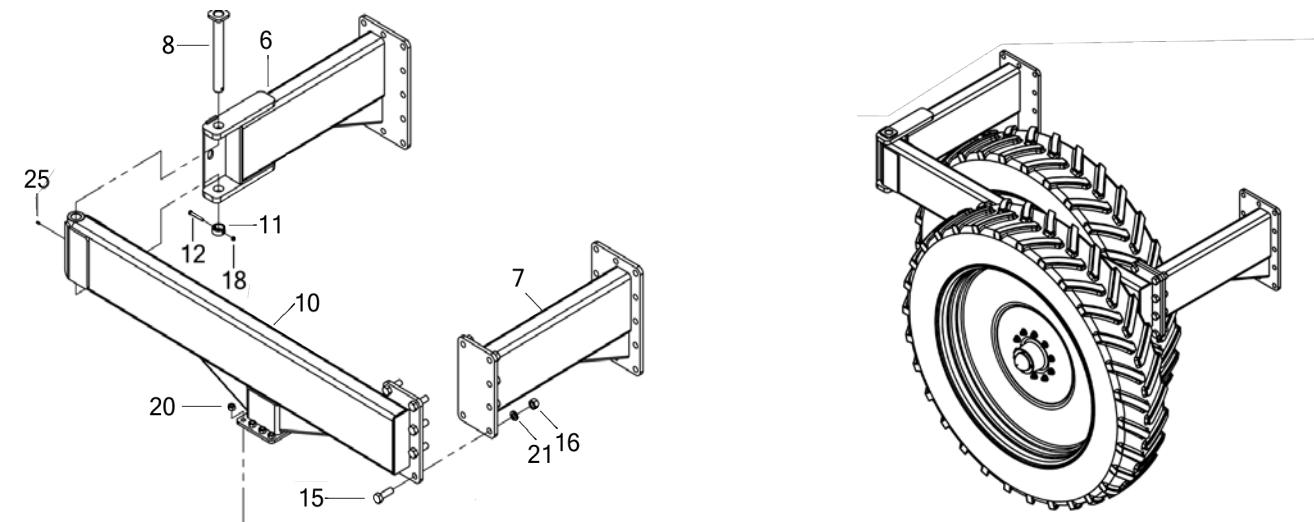
CENTER FRAME CHAIN BED & GRAB ROLL COMPONENTS



CENTER FRAME CHAIN BED & GRAB ROLL COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|--------------------------|---|------|
| 1 | 700-2-1166 700-2-1121 | "PLASTIC" SPIRAL GRAB ROLL | 3 |
| 2 | 700-2-1167 700-2-1120 | SMOOTH PLASTIC GRAB ROLL WELD - 12 ROW MAIN FRAME ("STEEL" SMOOTH GRAB ROLL) | 2 |
| 3 | 700-3-2813 | GRAB ROLL SHAFT | 6 |
| 4 | 903-08452 | HUB, 1-15/16 (Q1) | - |
| 5 | 700-3-2470 | CHAIN BED DRIVE SHAFT | 1 |
| 6 | 903-11067 | CHAIN BED SPROCKET | 4 |
| 7 | 901-01417 | BEARING, 3-BOLT FLANGE (1-3/4) | 1 |
| 8 | 903-03186 | BELTED CHAIN (81") | 2 |
| 9 | 903-08424 | SPACER, 5/8 ID x 1-1/2 | 8 |
| 10 | 903-08433 | ROLLER, 5" | 8 |
| 11 | 903-08435 | NOSE ROLLER, 6" | 4 |
| 12 | | BOLT, 3/8 NC x 1-1/4 | - |
| 13 | 900-01177 | BOLT, 7/16 NC x 1-3/4 | - |
| 14 | 900-01369 | BOLT, 5/8 NC x 6 | - |
| 15 | 900-01433 | BOLT, 3/4 NC x 7-1/2 | - |
| 16 | 900-01357 | BOLT, 5/8 NC x 3-1/2 | - |
| 17 | 900-01421 | BOLT, 3/4 NC x 4-1/2 | - |
| 18 | 900-11015 | LOCK WASHER, 5/8 | - |
| 19 | 900-11017 | LOCK WASHER, 3/4 | - |
| 20 | 900-06013 | NUT, 5/8 NC | - |
| 21 | 900-06015 | NUT, 3/4 NC | - |
| 22 | 900-06141 | SPIRALOCK NUT, 7/16 NC | - |
| 23 | 900-11034 | 7/16 FLAT WASHER | - |
| 24 | 903-08449 | BUSHING TAPER LOCK 2517 - 1.93 B | - |
| 25 | 100-3-3333 | KEY - 3/8 X 3/8 X 2 | 40 |
| | 700-2-1404 | REAR FRAME ASSY | |

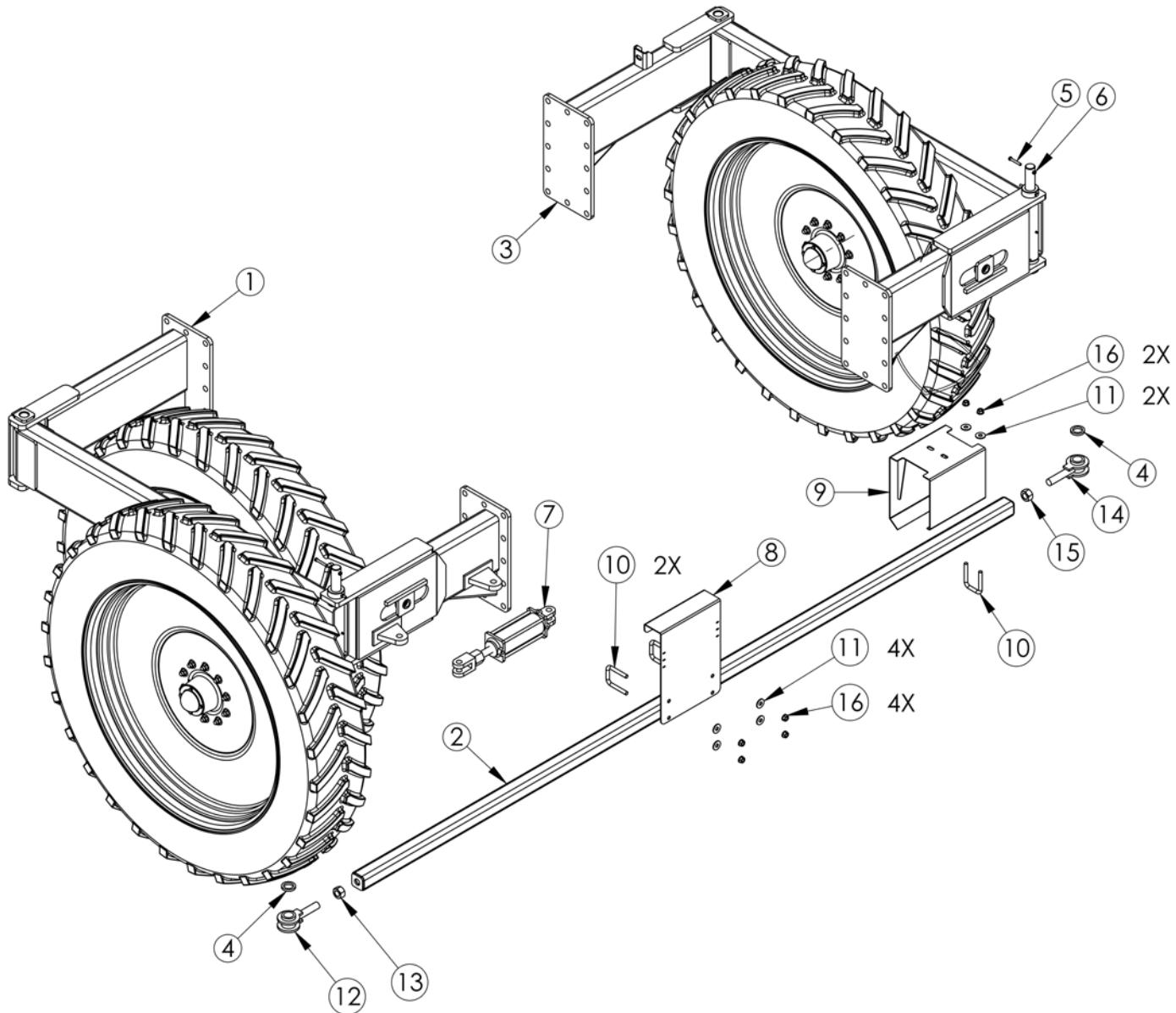
WALKNG TANDEM COMPONENTS (w/o REAR STEER)



WALKNG TANDEM COMPONENTS (w/o REAR STEER)

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 1 | 700-2-0553 | SPINDLE - HUB ASSM 10-BOLT | 2 |
| 2 | 700-2-0885 | SPINDLE HOLDER WELD - TANDEM | 1 |
| 3 | 700-2-0922 | TANDEM AXLE PIVOT PIN WELD | 1 |
| 4 | 700-2-0963 | TIRE ASSY LH - 380/90R46 | 1 |
| 5 | 700-2-0964 | TIRE ASSY RH - 380/90R46 | 1 |
| 6 | 700-2-1024 | FRONT AXLE ANCHOR WELD - LH | 1 |
| | 700-2-1025 | FRONT AXLE ANCHOR WELD - RH | 1 |
| 7 | 700-2-1026 | REAR STRUT ANCHOR WELD - LH | 1 |
| | 700-2-1027 | REAR STRUT ANCHOR WELD - RH | 1 |
| 8 | 700-2-1032 | PIVOT PIN WELD - TANDEM AXLE | 1 |
| 9 | 700-2-1251 | TANDEM PIVOT WELD - W/PLATE | 1 |
| 10 | 700-2-1255 | ADJUSTABLE SWING TUBE WELD - TANDEM AXLE LH | 1 |
| | 700-2-1254 | ADJUSTABLE SWING TUBE WELD - TANDEM AXLE RH | 1 |
| 11 | 700-3-2707 | COLLAR - 1.75" | 1 |
| 12 | 900-01125 | BOLT, HH 3/8 NC X 2-3/4 | 1 |
| 13 | 900-01363 | HEX BOLT 5/8 NC X 4 1/2 GD 5 ZP | 2 |
| 14 | 900-01403 | HEX BOLT - 3/4NC X 2 GR5 ZP | 8 |
| 15 | 900-01519 | BOLT, HH, 1-8 x 3, GR5 ZP | 6 |
| 16 | 900-06019 | 1-8 HEX NUT | 6 |
| 17 | 900-06239 | 2 NC HEAVY HEX STOTTED NUT G5 ZP | 1 |
| 18 | 900-06500 | NUT HEX 3/8 TOP LOCK | 1 |
| 19 | 900-06508 | NUT HEX 5/8 UNC TOP LOCK | 2 |
| 20 | 900-06510 | 3/4 NUT, HEX TOP LOCK | 8 |
| 21 | 900-11021 | LOCK WASHER - 1 | 6 |
| 22 | 900-11048 | 2 FLAT WASHER ZN | 1 |
| 23 | 900-23084 | PIN, COTTER, 3/8 X 3-1/2 | 1 |
| 24 | 901-01344 | SPLIT BUSHING - 3 ID X 3.50D X 3 LONG | 2 |
| 25 | 905-15024 | ZERK 1/4-28 UNF STRAIGHT | 2 |
| | 700-2-1030 | WALKING TANDEM AXLE ASSY - LH | |
| | 700-2-1031 | WALKING TANDEM AXLE ASSY - RH | |

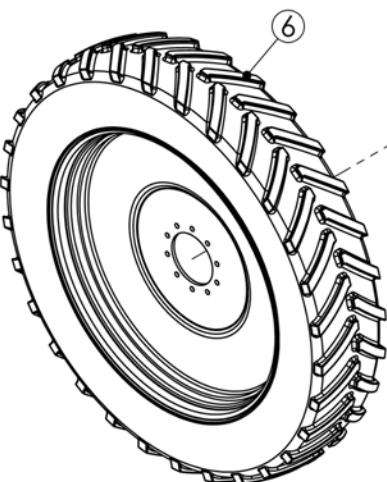
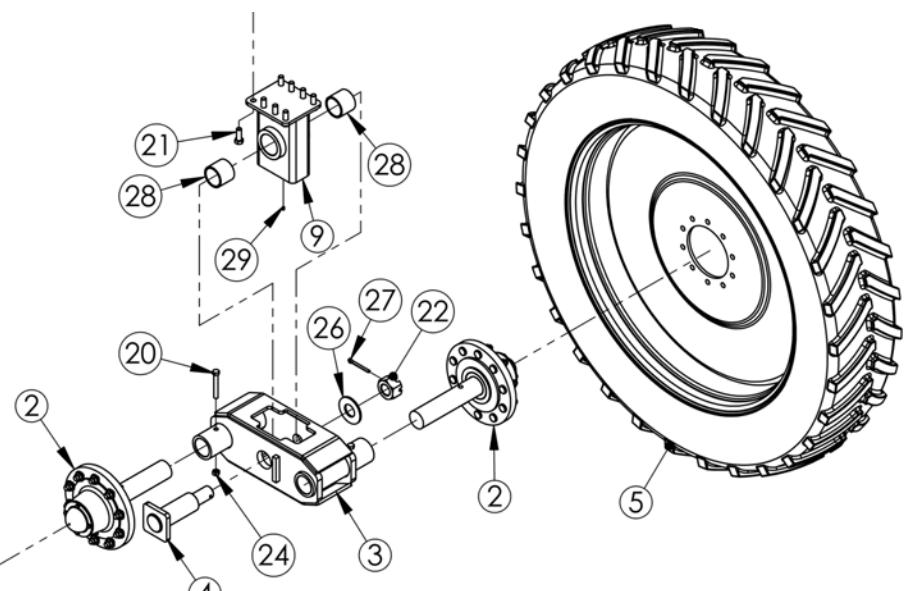
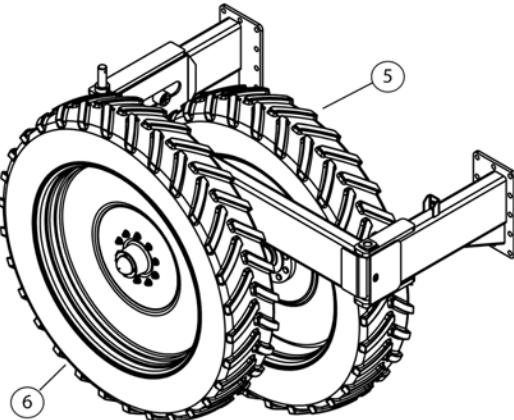
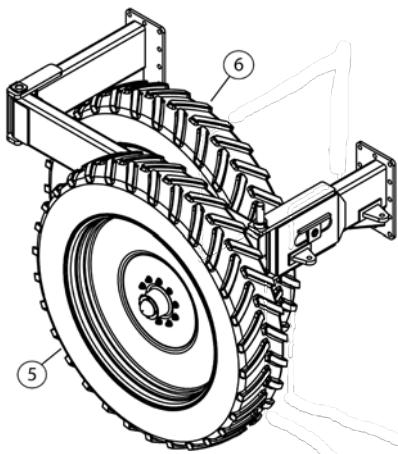
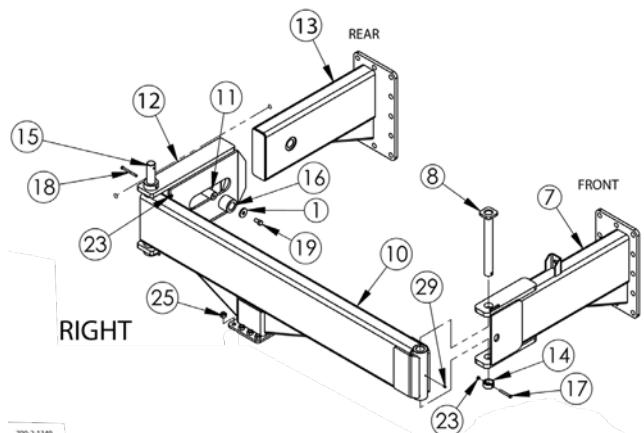
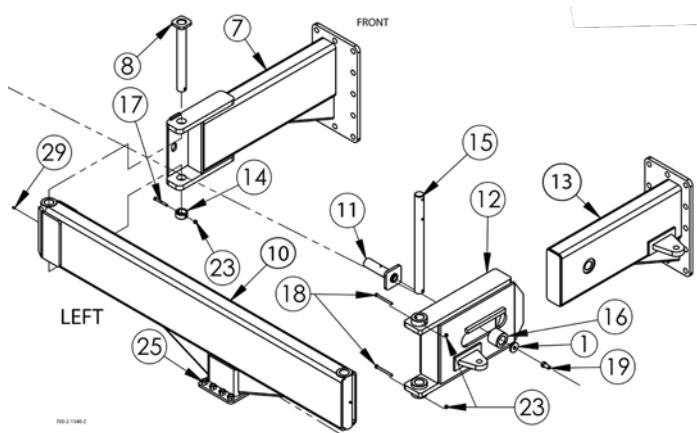
REAR STEER KIT



REAR STEER KIT

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 1 | 700-2-1340 | WALKING TANDEM REAR STEER ASSY - LH 2016 | 1 |
| 2 | 700-2-1344 | REAR STEER TIE ROD WELDMENT | 1 |
| 3 | 700-2-1349 | WALKING TANDEM REAR STEER ASSY - RH 2016 | 1 |
| 4 | 700-3-3506 | WASHER- TIE ROD | 2 |
| 5 | 900-01121 | 3/8-16 NC X 3 HEX BOLT SS | 2 |
| 6 | 900-06500 | NUT HEX 3/8 TOP LOCK | 2 |
| 7 | 905-21431 | HYD CYLINDER 5 X 8 W/FASTENERS | 1 |
| 8 | 700-3-3523 | ANGLE- REAR STEER CENTER | 1 |
| 9 | 700-2-1355 | REAR STEER COVER WELDMENT | 1 |
| 10 | 900-35026 | U-BOLT 5/8NC x 3 INSIDE x 4-1/2 LONG x 1-1/2 THDS | 3 |
| 11 | 900-11037 | WASHER FLAT 5/8 | 8 |
| 12 | 700-2-1345 | REAR STEER TIE ROD HANDLE WELDMENT LH | 1 |
| 13 | 900-06202 | TOP LOCK NUT - 1-1/4 NC LH | 1 |
| 14 | 700-2-1346 | REAR STEER TIE ROD HANDLE WELDMENT RH | 1 |
| 15 | 900-06518 | TOP LOCK NUT - 1-1/4 NC | 1 |
| 16 | 900-06145 | NUT WHIZ 5/8-11 NC | 6 |
| | 700-1-0106 | REAR STEER KIT 2016 | |

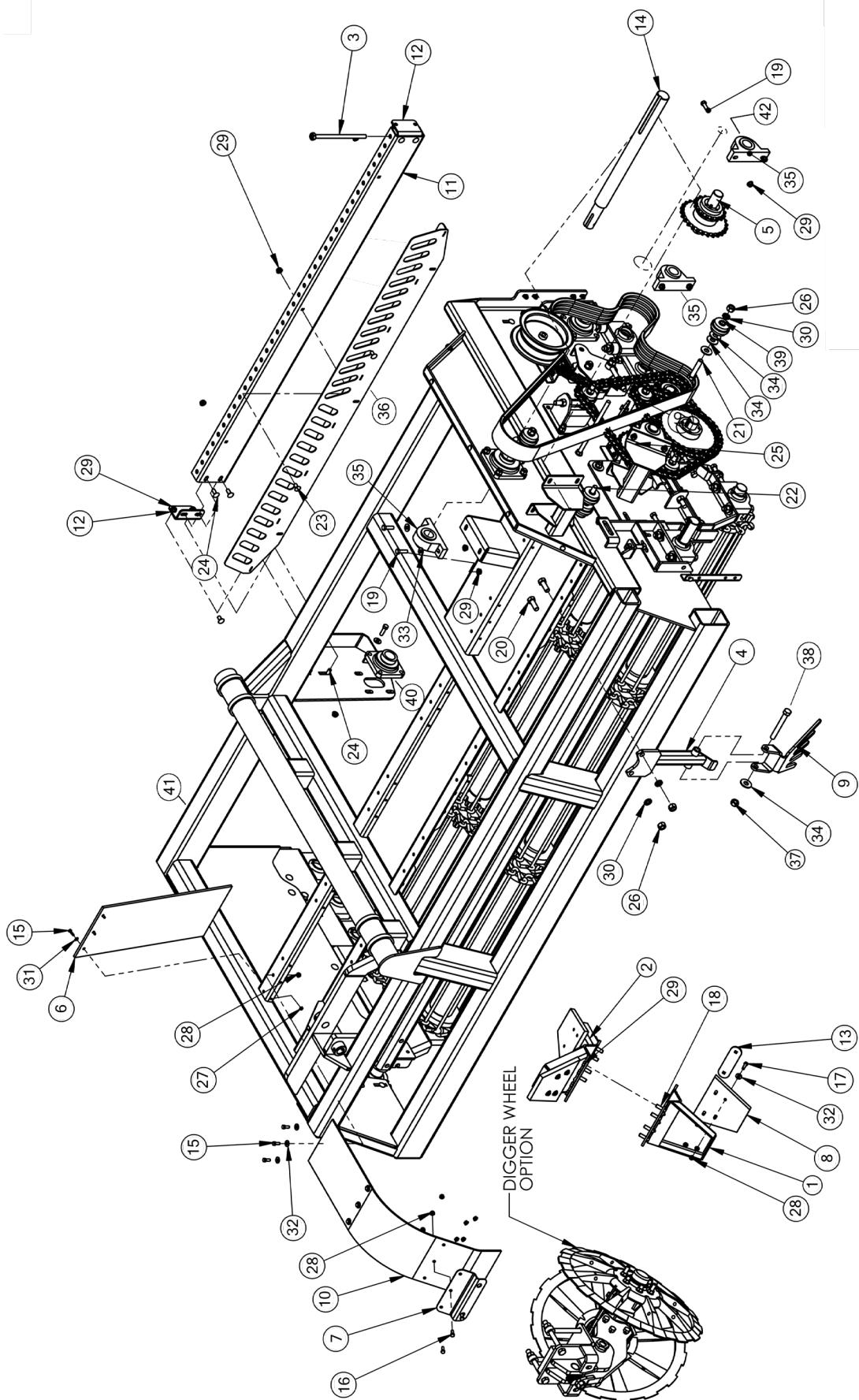
WALKNG TANDEM COMPONENTS (w/ REAR STEER)



WALKNG TANDEM COMPONENTS (w/ REAR STEER)

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--|------|
| 1 | 500-3-1246 | SPECIAL WASHER | 1 |
| 2 | 700-2-0553 | SPINDLE - HUB ASSM 10-BOLT | 2 |
| 3 | 700-2-0885 | SPINDLE HOLDER WELD - TANDEM | 1 |
| 4 | 700-2-0922 | TANDEM AXLE PIVOT PIN WELD | 1 |
| 5 | 700-2-0963 | TIRE ASSY LH - 380/90R46 | 1 |
| 6 | 700-2-0964 | TIRE ASSY RH - 380/90R46 | 1 |
| 7 | 700-2-1024 | FRONT AXLE ANCHOR WELD - LH | 1 |
| | 700-2-1025 | FRONT AXLE ANCHOR WELD - RH | 1 |
| 8 | 700-2-1032 | PIVOT PIN WELD - TANDEM AXLE | 1 |
| 9 | 700-2-1251 | TANDEM PIVOT WELD - W/PLATE | 1 |
| 10 | 700-2-1339 | REAR STEER PIVOT TUBE WELD - TANDEM AXLE | 1 |
| 11 | 700-2-1342 | REAR STEER SLIDE PIN WELDMENT | 1 |
| 12 | 700-2-1341 | REAR STEER SLIDE WELDMENT LH 2016 | 1 |
| | 700-2-1350 | REAR STEER SLIDE WELDMENT RH 2016 | 1 |
| 13 | 700-2-1338 | REAR STRUT ANCHOR TUBE WELD - LH | |
| | 700-2-1348 | REAR STRUT ANCHOR TUBE WELD- RH | 1 |
| 14 | 700-3-2707 | COLLAR - 1.75" | 1 |
| 15 | 700-3-3497 | PIVOT PIN- REAR STEER | 1 |
| 16 | 700-3-3498 | SLIP ON BUSHING- SLIDE PIN | 1 |
| 17 | 900-01125 | BOLT, HH 3/8 NC X 2-3/4 | 1 |
| 18 | 900-01133 | 3/8NC X 4 HEX BOLT GR 5 | 2 |
| 19 | 900-01339 | BOLT HH 5/8-11 NC X 1-1/4 GRD 5 ZP | 1 |
| 20 | 900-01363 | HEX BOLT 5/8 NC X 4 1/2 GD 5 ZP | 1 |
| 21 | 900-01403 | HEX BOLT - 3/4NC X 2 GR5 ZP | 1 |
| 22 | 900-06239 | 2 NC HEAVY HEX STOTTED NUT G5 ZP | 1 |
| 23 | 900-06500 | NUT HEX 3/8 TOP LOCK | 1 |
| 24 | 900-06508 | NUT HEX 5/8 UNC TOP LOCK | 1 |
| 25 | 900-06510 | 3/4 NUT, HEX TOP LOCK | 1 |
| 26 | 900-11048 | 2 FLAT WASHER ZN | 1 |
| 27 | 900-23084 | PIN, COTTER, 3/8 X 3-1/2 | 1 |
| 28 | 901-01344 | SPLIT BUSHING - 3 ID X 3.50D X 3 LONG | 1 |
| 29 | 905-15024 | ZERK 1/4-28 UNF STRAIGHT | 1 |
| | 700-2-1340 | WALKING TANDEM REAR STEER ASSY - LH 2016 | |
| | 700-2-1349 | WALKING TANDEM REAR STEER ASSY - RH 2016 | |

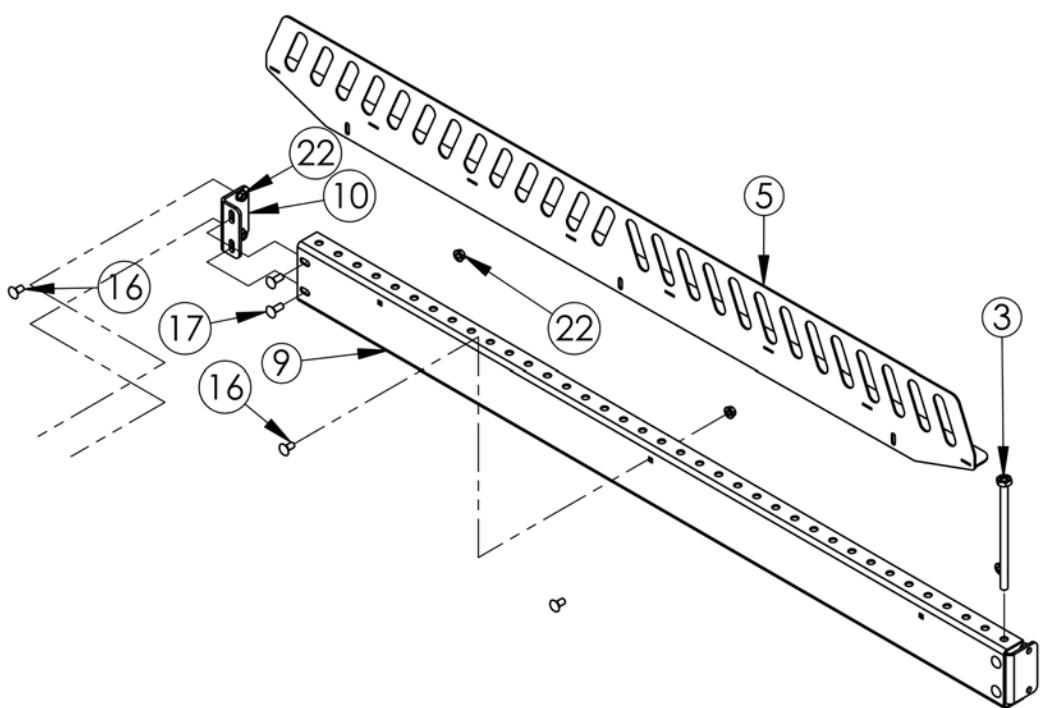
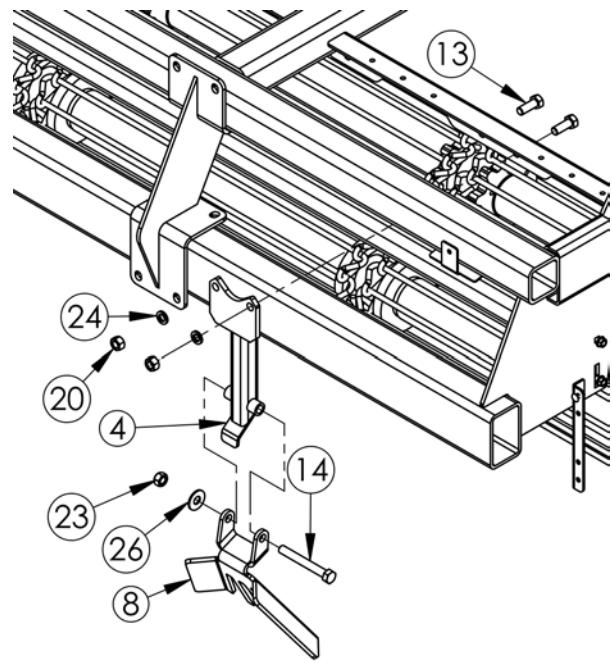
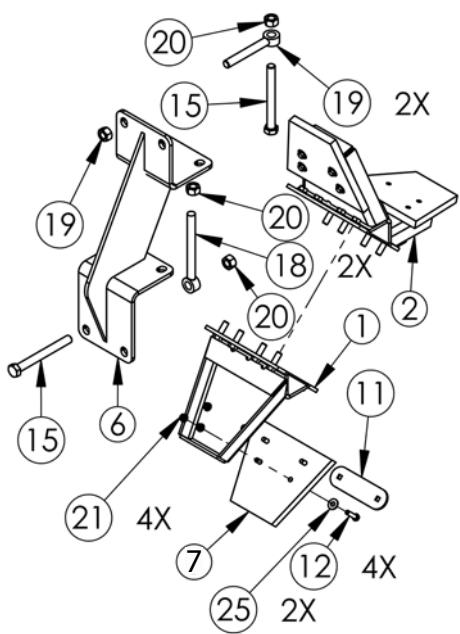
WING FRAME COMPONENTS



WING FRAME COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 1 | 700-2-1055 | WING WELD - LH 12 ROW (ALL G-ROLLS) | 1 |
| | 700-2-1084 | WING WELD - RH 12 ROW (ALL G-ROLLS) | 1 |
| 5 | 700-2-1108 | SPROCKET AXLE ASSY | 1 |
| 6 | 700-3-0317 | PADDLE DEFLECTOR | 6 |
| 7 | 700-3-0807 | MOUNT PLATE - FRONT PADDLE COVER | 6 |
| 10 | 700-3-1762 | PADDLE COVER | 6 |
| 14 | 700-3-3287 | OUTER WING DRIVE SHAFT - 12 ROW | 1 |
| 15 | 900-01009 | 1/4-20 X 1 ZP HEX BOLT | 18 |
| 16 | 900-01109 | BOLT HEX 3/8UNC X 1 GR 5 | 56 |
| 17 | 900-01113 | 3/8NC X 1-1/2 HEX BOLT GR 5 | 72 |
| 18 | 900-01225 | BOLT HEX 1/2 X 1 1/2 GR 5 | 24 |
| 19 | 900-01227 | BOLT HEX □ X 1 3/4 GR 5 ZP | 18 |
| 21 | 900-01417 | HEX BOLT-3/4NC X 3.75 GR5 ZP | 1 |
| 22 | 900-01437 | BOLT, HH, 3/4-10 X 8-1/2, GR5 ZP | 1 |
| 23 | 900-01749 | CARRIAGE BOLT 1/2 NC X 1 | 3 |
| 24 | 900-01750 | CARRIAGE BOLT 1/2 NC X 1 1/4 GR 5 ZP | 16 |
| 25 | 900-01786 | CARRIAGE BOLT 5/8 NC X 2 NC | 9 |
| 26 | 900-06015 | NUT, HH, 3/4-10, ZP | 46 |
| 27 | 900-06135 | WHIZ NUT - 1/4 - 20 | 18 |
| 28 | 900-06139 | 3/8 NC FLANGED WHIZ NUT | 141 |
| 29 | 900-06143 | 1/2 NC SPIRALOCK NUT ZP GR5 | 89 |
| 30 | 900-11017 | WASHER, LOCK, 3/4, ZP | 40 |
| 31 | 900-11031 | 1/4 FLAT WASHER | 18 |
| 32 | 900-11033 | FLAT WASHER 3/8 ZP | 108 |
| 33 | 900-11035 | 1/2 FLAT WASHER | 12 |
| 34 | 900-11038 | 3/4" FLAT WASHER | 43 |
| 35 | 901-01272 | BRG 1.75 PILLOW BLOCK (ECCENTRIC LOCK COLLAR) | 2 |
| 37 | 900-06510 | 3/4 NUT, HEX TOP LOCK | 1 |
| 39 | 903-11106 | 3" IDLEMASTER TENSIONER | 7 |
| 40 | 901-01282 | BEARING - 1-15/16 4-BOLT (F4B-SXR-115-FF) | 2 |
| 42 | 905-15024 | ZERK 1/4-28 UNF STRAIGHT | 1 |
| | 700-2-1311 | WING ASSY - 1222 LH CUSHION (2015) | |
| | 700-2-1312 | WING ASSY - 1222 RH CUSHION (2015) | |

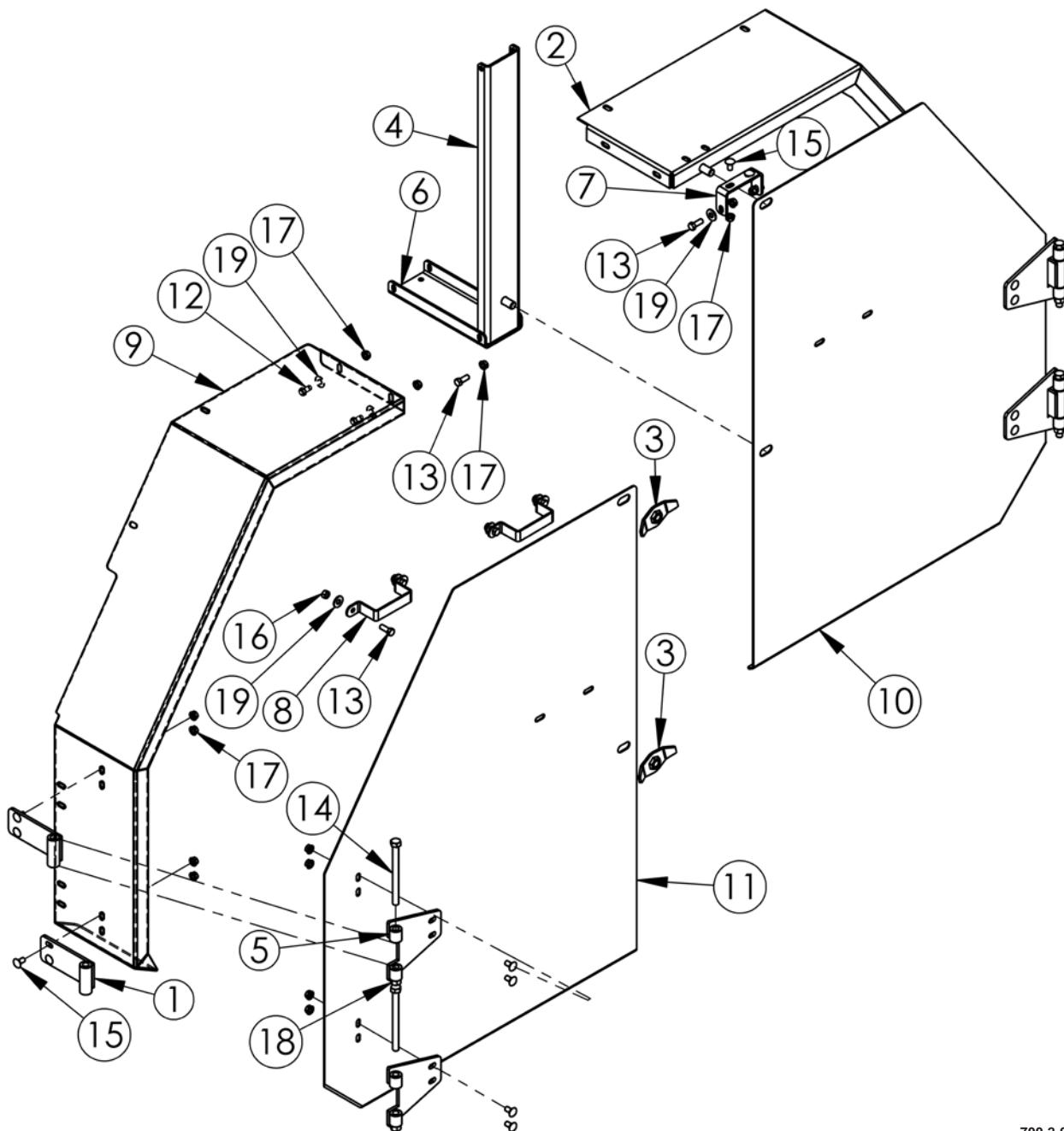
WING FRAME DETAIL



WING FRAME DETAIL

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 1 | 700-2-0069 | PADDLE WELD (ONE PADDLE) | 6 |
| 2 | 700-2-0070 | PADDLE WELD (2 PADDLES) | 6 |
| 3 | 700-2-0918 | REAR BARRIER ROD WELDMENT - 12 ROW WING | 37 |
| 4 | 700-2-1088 | MOUNT WELD - FRONT BARRIER 12 ROW WINGS | 5 |
| 5 | 700-2-1270 | REAR BARRIER CAP WELD | 1 |
| 6 | 700-2-1381 | ANGLE BRACKET WELD- WING | 0 |
| 7 | 700-3-1207 | RUBBER FLAPS - NARROW | 18 |
| 8 | 700-3-1483 | NARROW FRONT BARRIER BRKT | 5 |
| 9 | 700-3-1996 | CLIP - REAR BARRIER 12 ROW WING | 1 |
| 10 | 700-3-2418 | SUPPORT BRACKET - REAR BARRIER 12 ROW WING | 2 |
| 11 | 700-3-2889 | RUBBER PADDLE SPACER | 18 |
| 12 | 900-01113 | 3/8NC X 1-1/2 HEX BOLT GR 5 | 72 |
| 13 | 900-01403 | HEX BOLT - 3/4NC X 2 GR5 ZP | 2 |
| 14 | 900-01427 | HEX BOLT - 3/4NC X 6 GR5 ZP | 5 |
| 15 | 900-01431 | HEX BOLT - 3/4 NC X 7 GR5 | 8 |
| 16 | 900-01749 | CARRIAGE BOLT 1/2 NC X 1 | 3 |
| 17 | 900-01750 | CARRIAGE BOLT 1/2 NC X 1 1/4 GD 5 ZP | 16 |
| 18 | 900-03462 | EYE BOLT 3/4 X 8 | 1 |
| 19 | 900-03463 | BOLT, EYE, 3/4" NC X 6" | 3 |
| 20 | 900-06015 | NUT, HH, 3/4-10, ZP | 46 |
| 21 | 900-06139 | 3/8 NC FLANGED WHIZ NUT | 141 |
| 22 | 900-06143 | 1/2 NC SPIRALOCK NUT ZP GR5 | 89 |
| 23 | 900-06510 | 3/4 NUT, HEX TOP LOCK | 8 |
| 24 | 900-11017 | WASHER, LOCK, 3/4, ZP | 4 |
| 25 | 900-11033 | FLAT WASHER 3/8 ZP | 0 |
| 26 | 900-11038 | 3/4" FLAT WASHER | 4 |
| 48 | 900-01362 | HEX BOLT 5/8 - 11 X 4 GRADE 5 (FULL THREAD) | 7 |
| | 700-2-1311 | WING ASSY - 1222 LH CUSHION (2015) | |
| | 700-2-1312 | WING ASSY - 1222 RH CUSHION (2015) | |

WING DOOR COMPONENTS

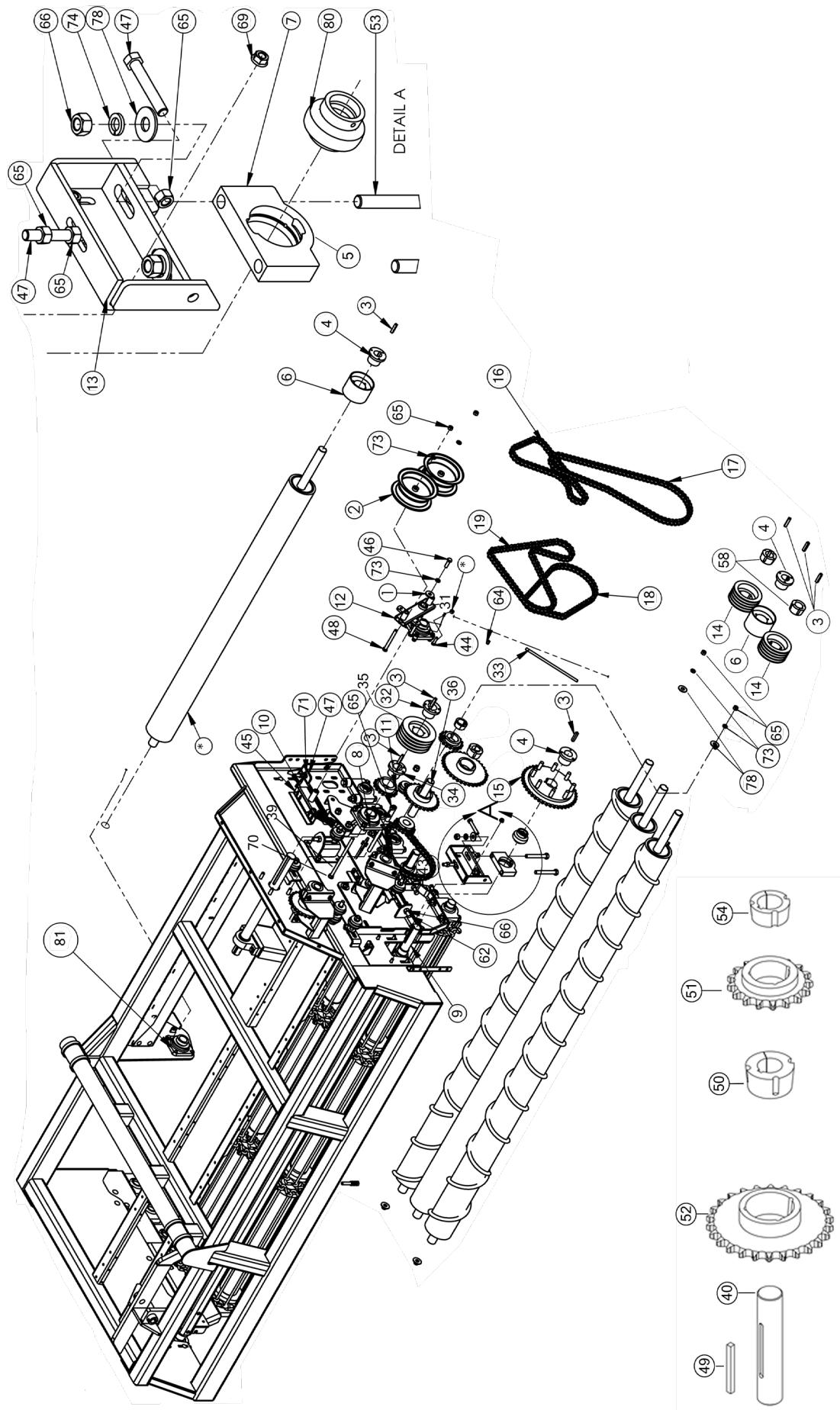


700-2-0957 LEFT
700-2-0975 RIGHT

WING DOOR COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|----------------------------------|------|
| 1 | 700-2-0956 | DOOR HINGE WELD | 4 |
| 2 | 700-2-0959 | FRONT INSIDE DOOR ASSY - LH WING | 1 |
| | 700-2-0976 | FRONT INSIDE DOOR ASSY - RH WING | 1 |
| 3 | 700-2-1051 | SHIELD NUT WELD | 2 |
| 4 | 700-2-1090 | WING DOOR CHANNEL WELD | 1 |
| 5 | 700-2-1091 | DOOR HINGE WELD - INNER | 4 |
| 6 | 700-3-2497 | DOOR STOP PLATE | 1 |
| 7 | 700-3-2501 | DOOR STOP PLATE - UPPER MOUNT | 1 |
| 8 | 700-3-2515 | SQ HANDLE 4" ID W/ MOUNT PLATE | 2 |
| 9 | 700-3-2853 | INNER SHIELD - BACK LH | 1 |
| | 700-3-2573 | INNER SHIELD - BACK RH | 1 |
| 10 | 700-3-2851 | FRONT WING DOOR - LH | 1 |
| | 700-3-2574 | FRONT WING DOOR - RH | 1 |
| 11 | 700-3-2849 | REAR WING DOOR - LH | 1 |
| | 700-3-2575 | REAR WING DOOR - RH | 1 |
| 12 | 900-01105 | 3/8-16 X .75" HEX BOLT | 2 |
| 13 | 900-01109 | BOLT HEX 3/8UNC X 1 GR 5 | 8 |
| 14 | 900-01253 | HEX BOLT 1/2NC X 6 GD5 ZP | 4 |
| 15 | 900-01694 | CARRIAGE BOLT 3/8 NC X 3/4 | 18 |
| 16 | 900-06005 | NUT HEX 3/8 S/S | 4 |
| 17 | 900-06139 | 3/8 NC FLANGED WHIZ NUT | 37 |
| 18 | 900-06504 | NUT, LOCK, TOP, 1/2-13, GR C ZP | 4 |
| 19 | 900-11033 | FLAT WASHER 3/8 ZP | 8 |
| | 700-2-0957 | DOOR ASSY - LEFT WING | |
| | 700-2-0975 | DOOR ASSY - RIGHT WING | |

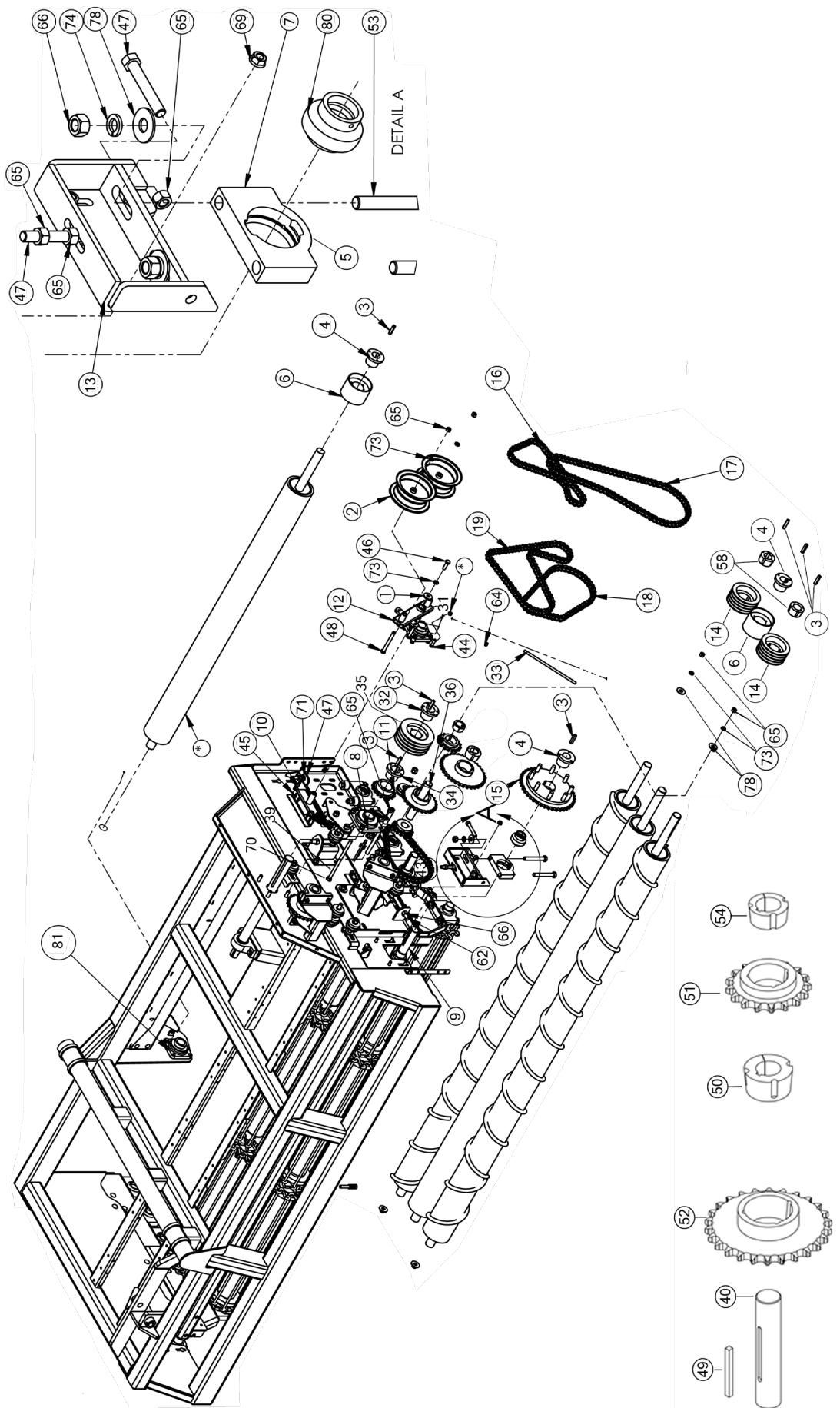
WING DRIVE COMPONENTS



WING DRIVE COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-----------------|--|------|
| 1 | 500-3-1246 | SPECIAL WASHER | 1 |
| 2 | 500-3-1249 | PULLEY - 8 OD X 3.25 X .63 ID FLANGED (DON DYE) PAINTED | 2 |
| 3 | 500-3-1662 | KEY - 1/2 X 2-1/2 SQUARE | 7 |
| 4 | 903-08452 | TYPE Q1 HUB 1-15/16 BORE | 3 |
| 5 | 905-15024 | ZERK 1/4-28 UNF STRAIGHT | - |
| 6 | 700-2-0267 | PULLEY WELD - 6 INCH | 2 |
| 7 | 700-2-0377 | BEARING BLOCK ASSY - 1.93 W/GREASE FITTING | 8 |
| 8 | 901-01311 | BEARING - UCF 211-35 2.19 4-BOLT | 1 |
| 9 | 700-2-0566 | PADDLE TUBE WELD - 1222 WING | 1 |
| 10 | 700-2-0721 | PIVOT BASE WELD - HARVESTER | 1 |
| 11 | 903-11109 | SPROCKET #H80Q17 (Q1 HUB) | 1 |
| 12 | 700-2-0930 | PIVOT ARM - TENSIONER | 1 |
| 13 | 700-2-0938 | PADDLE SHAFT BEARING PLATE - 12 ROW | 2 |
| 14 | 903-08482 | PULLEY - 4B66 (2517 TL) | 2 |
| 15 | 903-11105 | #80 42 TOOTH TORQUE LIMITER (W/ 1 7/16 BORE) | 1 |
| 16 | 903-03192 | PADDLE SHAFT CHAIN PRIMARY - 55" | 1 |
| 17 | 903-03193 | PADDLE SHAFT CHAIN SECONDARY 81" | 1 |
| 18 | 903-03204 | BED CHAIN | 1 |
| | 903-03166_INNER | Chain Link - Inside | |
| | 903-03166_OUTER | Chain Link - Outer Link | |
| 19 | 903-03205 | GRAB ROLL CHAIN | 1 |
| | 903-03166_INNER | Chain Link - Inside | |
| | 903-03166_OUTER | Chain Link - Outer Link | |
| 20 | 700-2-1308 | PIVOT PLATE WELD - OUTER WING LH CUSHION | 1 |
| | 700-2-1314 | PIVOT PLATE WELD - OUTER WING RH CUSHION | |
| 21 | 700-2-1309 | PIVOT PLATE WELD - INNER WING LH CUSHION | 1 |
| | 700-2-1310 | PIVOT PLATE WELD - INNER WING LH CUSHION | |
| 22 | 700-2-1313 | SPRING TENSIONER MOUNT WELD | 1 |
| 23 | 700-3-0317 | PADDLE DEFLECTOR | 6 |
| 24 | 700-3-0366 | TENSIONER SPRING ASSEMBLY | 1 |
| 25 | 700-3-0458 | BUSHING - KNULED | 2 |
| 26 | 700-3-0753 | TIE STRAP | 2 |
| 27 | 700-3-0807 | MOUNT PLATE - FRONT PADDLE COVER | 6 |
| 28 | 700-3-1207 | RUBBER FLAPS - NARROW | 18 |
| 29 | 700-3-1483 | NARROW FRONT BARRIER BRKT | 5 |
| 30 | 700-3-1762 | PADDLE COVER | 6 |
| 31 | 901-01122 | BUSHING BRONZE | 2 |
| 32 | 903-08476 | TYPE SK HUB 2-3/16 BORE | 1 |
| 33 | 700-3-2596 | THREADED ROD | 1 |
| 34 | 903-08475 | TYPE Q1 HUB 2-3/16 BORE | 1 |
| 35 | 903-08400 | SHEAVE, 6/5V13.2 | 1 |
| 36 | 700-3-3452 | SHAFT- PILLOW BLOCK | 1 |
| 37 | 700-3-3456 | IDLEMASTER TENSIONER SPACER | 1 |
| 38 | 700-3-3457 | CUSHION | 8 |
| 39 | 700-3-3458 | ROD, SIDE DOOR | 1 |
| 40 | 700-3-2898 | SHAFT - PADDLE SHAFT SPROCKET ASSY | 1 |

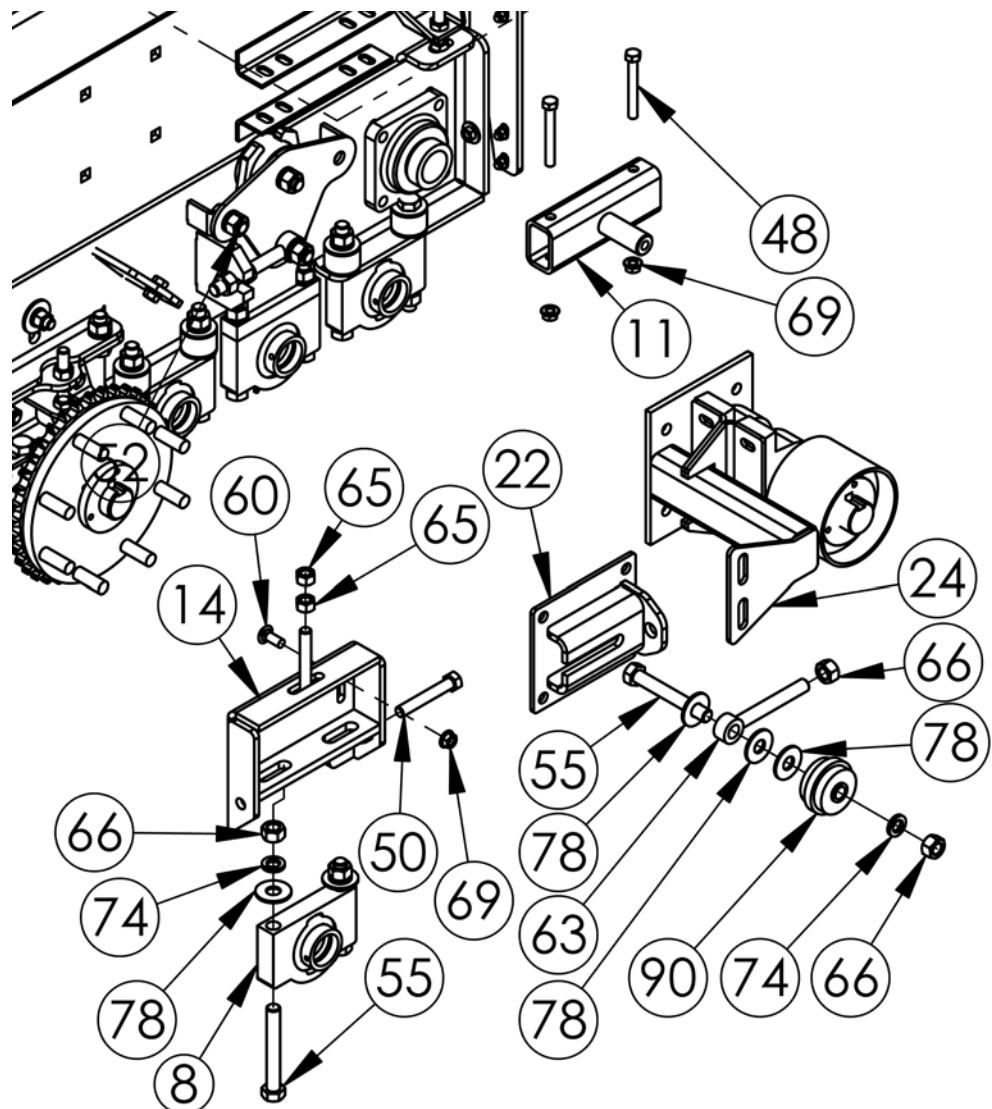
WING DRIVE COMPONENTS



WING DRIVE COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 41 | 900-01109 | BOLT HEX 3/8UNC X 1 GR 5 | 56 |
| 42 | 900-01113 | 3/8NC X 1-1/2 HEX BOLT GR 5 | 72 |
| 43 | 900-01225 | BOLT HEX 1/2 X 1 1/2 GR 5 | 24 |
| 44 | 900-01227 | BOLT HEX □ X 1 3/4 GR 5 ZP | 18 |
| 45 | 900-01245 | 1/2 X 4 HEX BOLT GR5 ZP | 2 |
| 46 | 900-01345 | BOLT, HH, 5/8-11 X 2, GR5 ZP | 5 |
| 47 | 900-01362 | HEX BOLT 5/8 - 11 X 4 GRADE 5 (FULL THREAD) | 6 |
| 48 | 900-01369 | SCREW, CAP 5/8 X 6 UNC zp | 2 |
| 49 | 700-3-1803 | KEY 3/8 X 3/8 X 4 | 1 |
| 50 | 903-08471 | BUSHING TAPER LOCK 2517 - 1.75 B | 1 |
| 51 | 903-11098 | SPROCKET 80BTL17H (2012 HUB) | 1 |
| 52 | 903-11103 | SPROCKET 80BTL26H (2517 HUB) | 1 |
| 53 | 900-01425 | HEX BOLT - 3/4NC X 5-1/2 GR5 ZP | 11 |
| 54 | 903-08412 | BUSHING TAPER LOCK 2012 - 1.75 B | 1 |
| 56 | 900-01435 | 3/4 NC X 8 HEX BOLT ZP | 1 |
| 57 | 903-11106 | 3" IDLEMASTER TENSIONER | 4 |
| 58 | 903-08449 | BUSHING TAPER LOCK 2517 - 1.93 B | |
| 62 | 900-03462 | EYE BOLT 3/4 X 8 | 1 |
| 64 | 900-06009 | NUT HEX 1/2 UNC | 1 |
| 65 | 900-06013 | NUT, HH, 5/8-11, ZP | 25 |
| 66 | 900-06015 | NUT, HH, 3/4-10, ZP | 46 |
| 69 | 900-06143 | 1/2 NC SPIRALOCK NUT ZP GR5 | 89 |
| 70 | 900-06145 | NUT WHIZ 5/8-11 NC | 2 |
| 71 | 900-06280 | NUT HEX JAM 5/8 UNC | 6 |
| 73 | 900-11015 | WASHER, LOCK, 5/8, ZP | 16 |
| 74 | 900-11017 | WASHER, LOCK, 3/4, ZP | 40 |
| 78 | 900-11038 | 3/4" FLAT WASHER | 43 |
| 80 | 901-01280 | 1-15/16 INSERT BRG NA-210-31 | 8 |
| 81 | 901-01282 | BEARING - 1-15/16 4-BOLT (F4B-SXR-115-FF) | 2 |
| | 700-2-1311 | WING ASSY - 1222 LH CUSHION (2015) | |
| | 700-2-1312 | WING ASSY - 1222 RH CUSHION (2015) | |

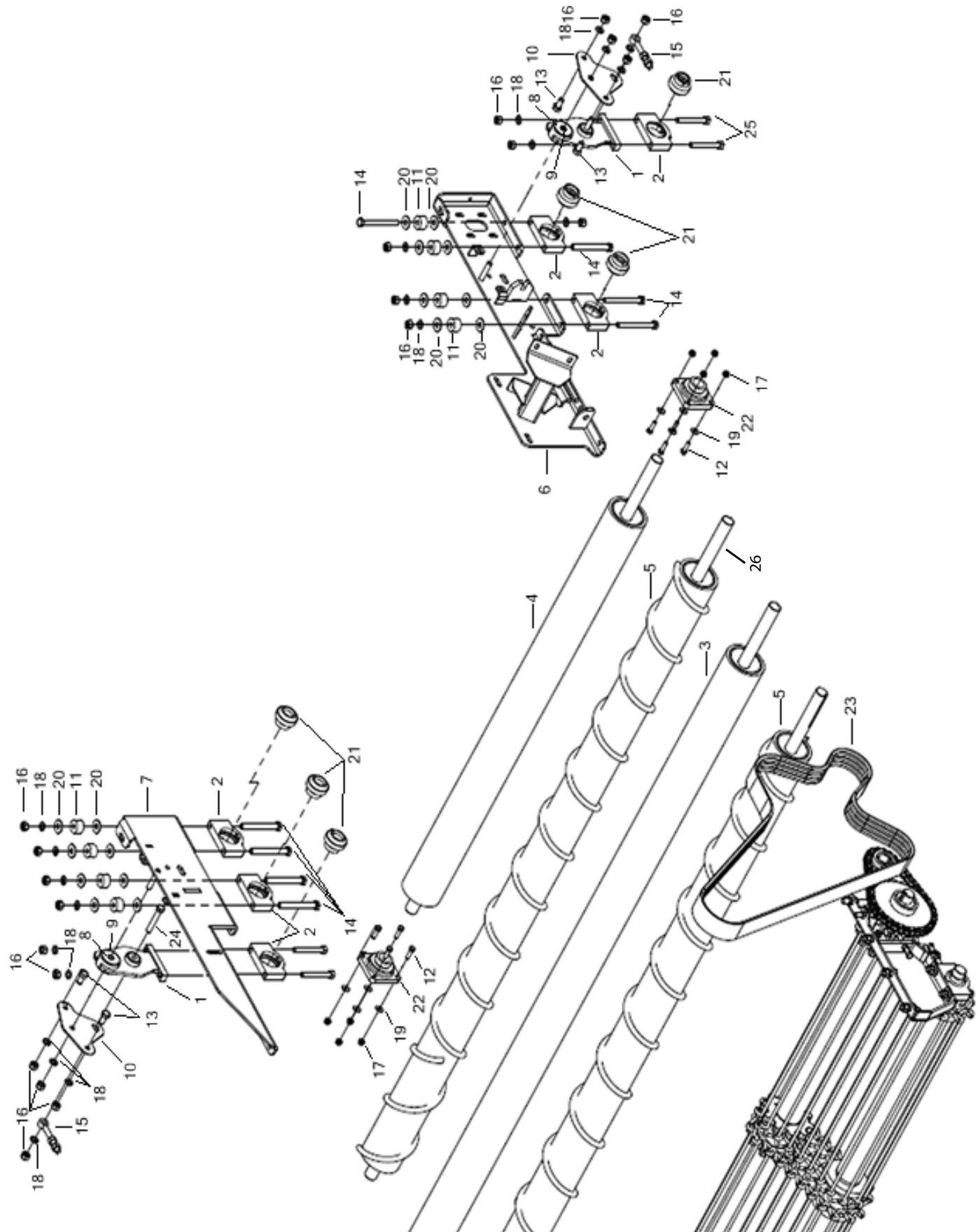
WING DRIVE DETAIL



WING DRIVE DETAIL

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--|------|
| 8 | 700-2-0377 | BEARING BLOCK ASSY - 1.93 | 8 |
| 11 | 700-2-0721 | PIVOT BASE WELD - HARVESTER | 1 |
| 14 | 700-2-0938 | PADDLE SHAFT BEARING PLATE - 12 ROW | 2 |
| 22 | 700-2-1313 | SPRING TENSIONER MOUNT WELD | 1 |
| 24 | 700-2-1394 | HUB MOUNT ASSEMBLY (CLUTCH PACK) | 1 |
| 48 | 900-01345 | BOLT, HH, 5/8-11 X 2, GR5 ZP | 5 |
| 50 | 900-01377 | SCREW, CAP 5/8 X 8 UNC | 2 |
| 55 | 900-01427 | HEX BOLT - 3/4NC X 6 GR5 ZP | 5 |
| 60 | 900-01786 | CARRIAGE BOLT 5/8 NC X 2 NC | 11 |
| 63 | 900-06009 | NUT HEX 1/2 UNC | 1 |
| 65 | 900-06015 | NUT, HH, 3/4-10, ZP | 56 |
| 66 | 900-06135 | WHIZ NUT - 1/4 - 20 | 18 |
| 69 | 900-06145 | 5/8 WHIZ NUT | 1 |
| 74 | 900-11031 | 1/4 FLAT WASHER | 18 |
| 78 | 901-01185 | BEARING - NANFS 209-28 1.75 | 1 |
| 90 | 903-11129 | #80 36 TOOTH TORQUE LIMITER (W/ 1 7/16 BORE) | 1 |
| | 700-2-1311 | WING ASSY - 1222 LH CUSHION (2015) | |
| | 700-2-1312 | WING ASSY - 1222 RH CUSHION (2015) | |

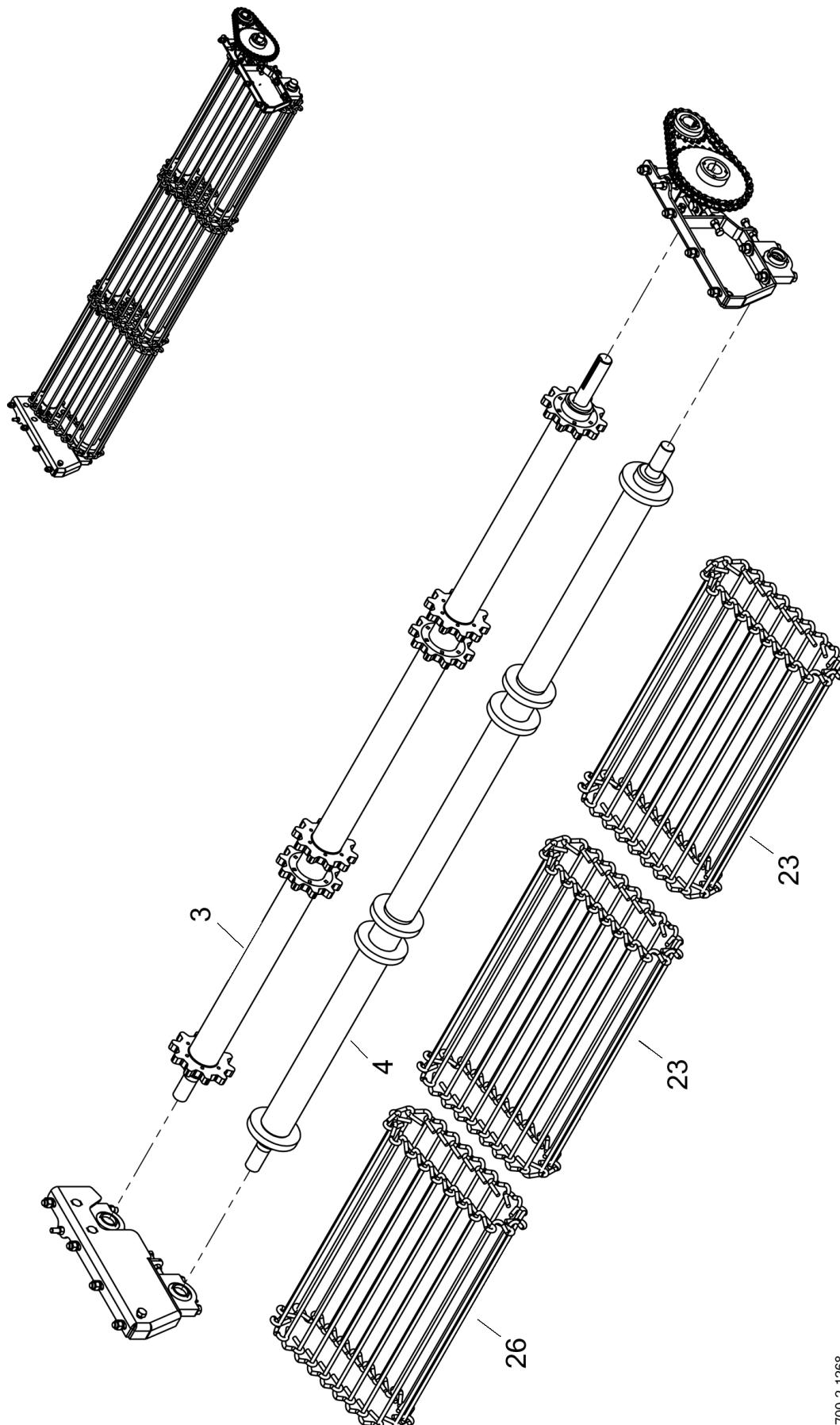
WING GRAB ROLL COMPONENTS



WING GRAB ROLL COMPONENTS

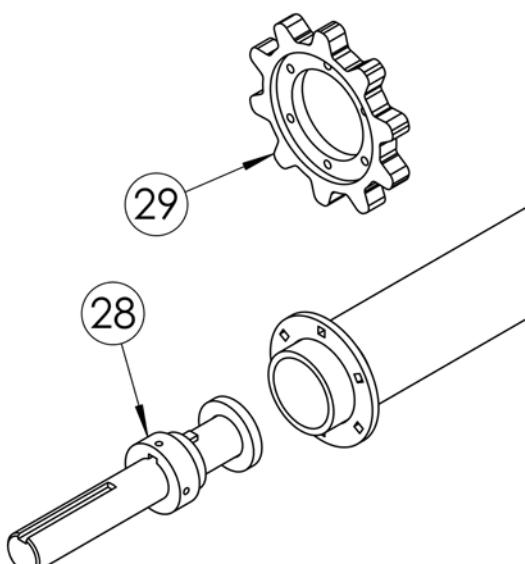
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--|------|
| 1 | 700-2-0375 | SWING ARM WELD (GRABROLL) 1.93 | 2 |
| 2 | 700-2-0377 | BEARING BLOCK ASSY - 1.93 | 6 |
| 3 | 700-2-0900 | SMOOTH GRAB ROLL WELD WING - LONG 1222 PLASTIC | 1 |
| | 700-2-1116 | SMOOTH GRAB ROLL WELD WING - LONG 1222 STEEL | 1 |
| 4 | 700-2-0926 | SHORT SMOOTH GRAB ROLL WELD - 1222 PLASTIC | 1 |
| | 700-2-1118 | SHORT SMOOTH GRAB ROLL WELD - 1222 STEEL | 1 |
| 5 | 700-2-0939 | FRONT SPIRAL GRAB ROLL WELD LH - 1222 PLASTIC WING | 2 |
| | 700-2-1115 | FRONT SPIRAL GRAB ROLL WELD LH - 1222 STEEL WING | 2 |
| | 700-2-0608 | FRONT SPIRAL GRAB ROLL WELD RH - 1222 PLASTIC | 2 |
| | 700-2-1119 | FRONT SPIRAL GRAB ROLL WELD RH - 1222 STEEL WING | 2 |
| 6 | 700-2-1308 | PIVOT PLATE WELD - OUTER WING LH CUSHION | 1 |
| | 700-2-1314 | PIVOT PLATE WELD - OUTER WING RH CUSHION | 1 |
| 7 | 700-2-1309 | PIVOT PLATE WELD - INNER WING LH CUSHION | 1 |
| | 700-2-1310 | PIVOT PLATE WELD - INNER WING RH CUSHION | 1 |
| 8 | 700-3-0557 | SPACER, GRAB ROLL ARM | 2 |
| 9 | 700-3-0609 | PIVOT BUSHING - SWING ARM | 2 |
| 10 | 700-3-0753 | TIE STRAP | 2 |
| 11 | 700-3-3457 | CUSHION | 8 |
| 12 | 900-01227 | BOLT HH 1/2-13 NC X 1-3/4 GRD 5 ZP | 32 |
| 13 | 900-01399 | 3/4-NC X 1-1/2 HEX BOLT | 2 |
| 14 | 900-01431 | HEX BOLT - 3/4 NC X 7 GR5 | 6 |
| 15 | 900-03463 | BOLT, EYE, 3/4" NC X 6" | 2 |
| 16 | 900-06015 | NUT HEX 3/4-10 NC ZP | 6 |
| 17 | 900-06143 | NUT WHIZ 1/2-13 NC GRD 5 ZP | 32 |
| 18 | 900-11017 | WASHER LOCK 3/4 ZP | 10 |
| 19 | 900-11035 | WASHER FLAT 1/2 | 32 |
| 20 | 900-11038 | WASHER FLAT 3/4 | 8 |
| 21 | 901-01280 | 1-15/16 INSERT BRG NA-210-31 | 6 |
| 22 | 901-01282 | BEARING - 1-15/16 4-BOLT (F4B-SXR-115-FF) | 8 |
| 23 | 903-01454_1 | BELT, 4B144 | 1 |
| 24 | 900-01421 | 3/4-10 X 4.5 HEX BOLT | 2 |
| 25 | 900-01425 | HEX BOLT - 3/4NC X 5-1/2 GR5 ZP | 2 |
| 26 | 700-3-2813 | DRIVE SHAFT - GRAB ROLLS 1.93 DIA (WELD IN) | 8 |
| | 700-2-1311 | WING ASSY - 1222 LH CUSHION (2015) | |
| | 700-2-1312 | WING ASSY - 1222 RH CUSHION (2015) | |

WING CHAIN BED ASSEMBLY - LEFT

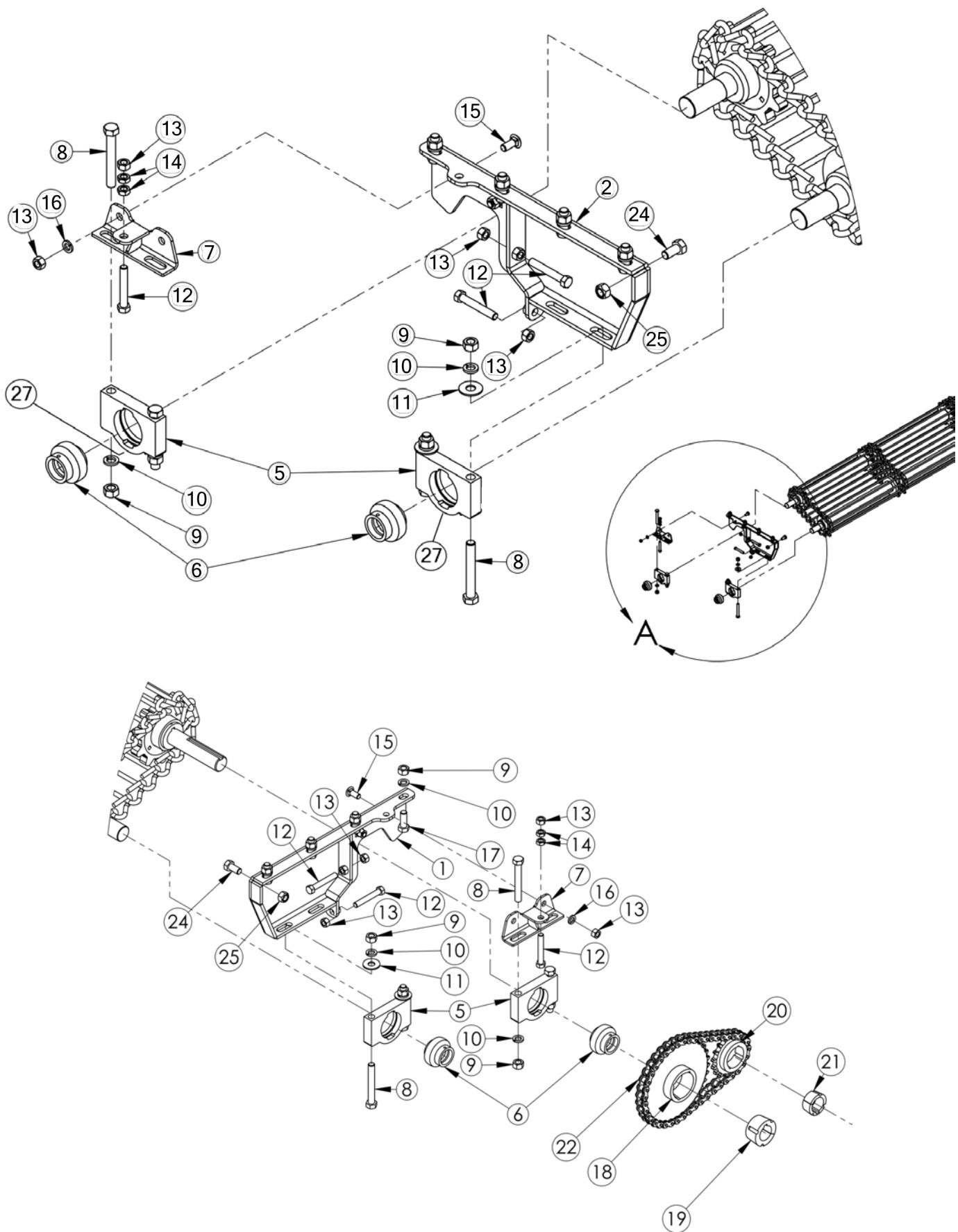


WING CHAIN BED ASSEMBLY - LEFT

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 1 | 700-2-1265 | LOWER PIVOT WELD - CHAIN BED LH | 1 |
| 2 | 700-2-1266 | LOWER PIVOT WELD - CHAIN BED RH | 1 |
| 3 | 700-2-0803 | DRIVE TUBE ASSY - CHAIN BED 12 ROW WING | 1 |
| 4 | 700-2-0904 | FRONT CHAIN BED TUBE | 1 |
| 5 | 700-2-0377 | BEARING BLOCK ASSY - 1.93 W/GREASE FITTING | 4 |
| 6 | 901-01280 | 1-15/16 INSERT BRG NA-210-31 | 4 |
| 7 | 700-2-1269 | CHAIN BED ADJUSTMENT WELD | 1 |
| 8 | 900-01425 | HEX BOLT - 3/4NC X 5-1/2 GR5 ZP | 4 |
| 9 | 900-06015 | NUT, HH, 3/4-10, ZP | 4 |
| 10 | 900-11017 | WASHER, LOCK, 3/4, ZP | 4 |
| 11 | 900-11038 | 3/4" FLAT WASHER | 2 |
| 12 | 900-01362 | HEX BOLT 5/8 - 11 X 4 GRADE 5 (FULL THREAD) | 2 |
| 13 | 900-06013 | NUT, HH, 5/8-11, ZP | 3 |
| 14 | 900-06280 | NUT HEX JAM 5/8 UNC | 1 |
| 15 | 900-01784 | CARRIAGE BOLT 5/8 NC X 2-1/2 NC | 2 |
| 16 | 900-11015 | WASHER, LOCK, 5/8, ZP | 2 |
| 17 | 900-01403 | HEX BOLT - 3/4NC X 2 GR5 ZP | - |
| 18 | 903-11104 | SPROCKET 80BTL34H (2517 HUB) | 1 |
| 19 | 903-08449 | BUSHING TAPER LOCK 2517 - 1.93 B | 1 |
| 20 | 903-11098 | SPROCKET 80BTL17H (2012 HUB) | 1 |
| 21 | 903-08450 | BUSHING TAPER LOCK 2012 - 1.93 B | 1 |
| 22 | 903-03185 | FRAME DRIVE CHAIN - 46" #80 | 1 |
| 23 | 903-03199 | WING HOOK CHAIN (42" x 21 LKS) | 2 |
| 24 | 900-01399 | 3/4-NC X 1-1/2 HEX BOLT | 1 |
| 25 | 900-06510 | 3/4 NUT, HEX TOP LOCK | 1 |
| 26 | 903-03200 | WING HOOK CHAIN (39" x 21 LKS) | 1 |
| 27 | 905-15024 | ZERK 1/4-28 UNF STRAIGHT | - |
| 28 | 700-2-0460 | DRIVE SHAFT WELD - CHAIN BED | 4 |
| 29 | 700-3-0809 | SPROCKET - BED CHAIN | 6 |
| | 700-2-1268 | WING CHAIN BED ASSY (LH) | |



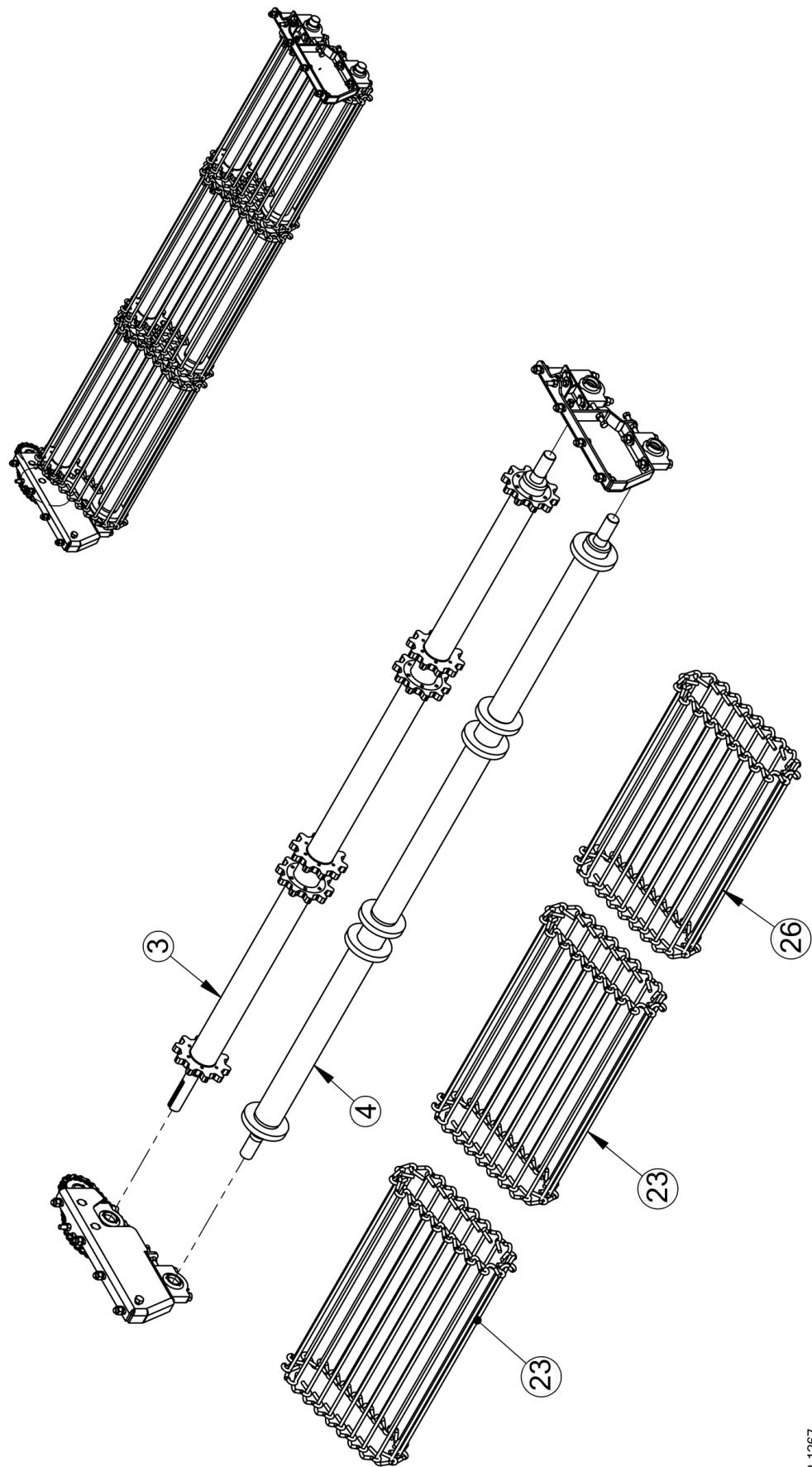
WING CHAIN BED ASSEMBLY - LEFT



WING CHAIN BED ASSEMBLY - LEFT

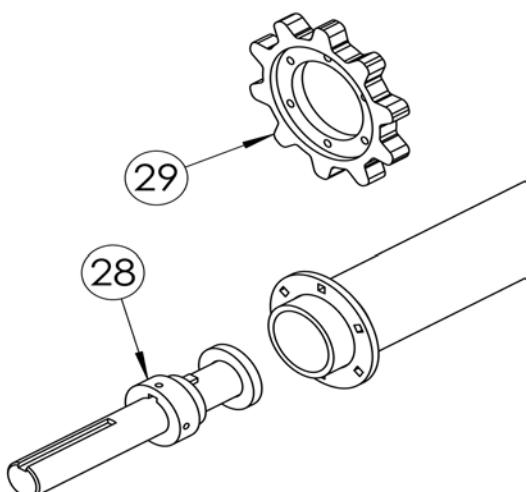
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 1 | 700-2-1265 | LOWER PIVOT WELD - CHAIN BED LH | 1 |
| 2 | 700-2-1266 | LOWER PIVOT WELD - CHAIN BED RH | 1 |
| 3 | 700-2-0803 | DRIVE TUBE ASSY - CHAIN BED 12 ROW WING | 1 |
| 4 | 700-2-0904 | FRONT CHAIN BED TUBE | 1 |
| 5 | 700-2-0377 | BEARING BLOCK ASSY - 1.93 W/GREASE FITTING | 4 |
| 6 | 901-01280 | 1-15/16 INSERT BRG NA-210-31 | 4 |
| 7 | 700-2-1269 | CHAIN BED ADJUSTMENT WELD | 1 |
| 8 | 900-01425 | HEX BOLT - 3/4NC X 5-1/2 GR5 ZP | 4 |
| 9 | 900-06015 | NUT, HH, 3/4-10, ZP | 4 |
| 10 | 900-11017 | WASHER, LOCK, 3/4, ZP | 4 |
| 11 | 900-11038 | 3/4" FLAT WASHER | 2 |
| 12 | 900-01362 | HEX BOLT 5/8 - 11 X 4 GRADE 5 (FULL THREAD) | 2 |
| 13 | 900-06013 | NUT, HH, 5/8-11, ZP | 3 |
| 14 | 900-06280 | NUT HEX JAM 5/8 UNC | 1 |
| 15 | 900-01784 | CARRIAGE BOLT 5/8 NC X 2-1/2 NC | 2 |
| 16 | 900-11015 | WASHER, LOCK, 5/8, ZP | 2 |
| 17 | 900-01403 | HEX BOLT - 3/4NC X 2 GR5 ZP | - |
| 18 | 903-11104 | SPROCKET 80BTL34H (2517 HUB) | 1 |
| 19 | 903-08449 | BUSHING TAPER LOCK 2517 - 1.93 B | 1 |
| 20 | 903-11098 | SPROCKET 80BTL17H (2012 HUB) | 1 |
| 21 | 903-08450 | BUSHING TAPER LOCK 2012 - 1.93 B | 1 |
| 22 | 903-03185 | FRAME DRIVE CHAIN - 46" #80 | 1 |
| 23 | 903-03199 | WING HOOK CHAIN (42" x 21 LKS) | 2 |
| 24 | 900-01399 | 3/4-NC X 1-1/2 HEX BOLT | 1 |
| 25 | 900-06510 | 3/4 NUT, HEX TOP LOCK | 1 |
| 26 | 903-03200 | WING HOOK CHAIN (39" x 21 LKS) | 1 |
| 27 | 905-15024 | ZERK 1/4-28 UNF STRAIGHT | |
| 28 | 700-2-0460 | DRIVE SHAFT WELD - CHAIN BED | 4 |
| 29 | 700-3-0809 | SPROCKET - BED CHAIN | 6 |
| | 700-2-1268 | WING CHAIN BED ASSY (LH) | |

WING CHAIN BED ASSEMBLY - RIGHT

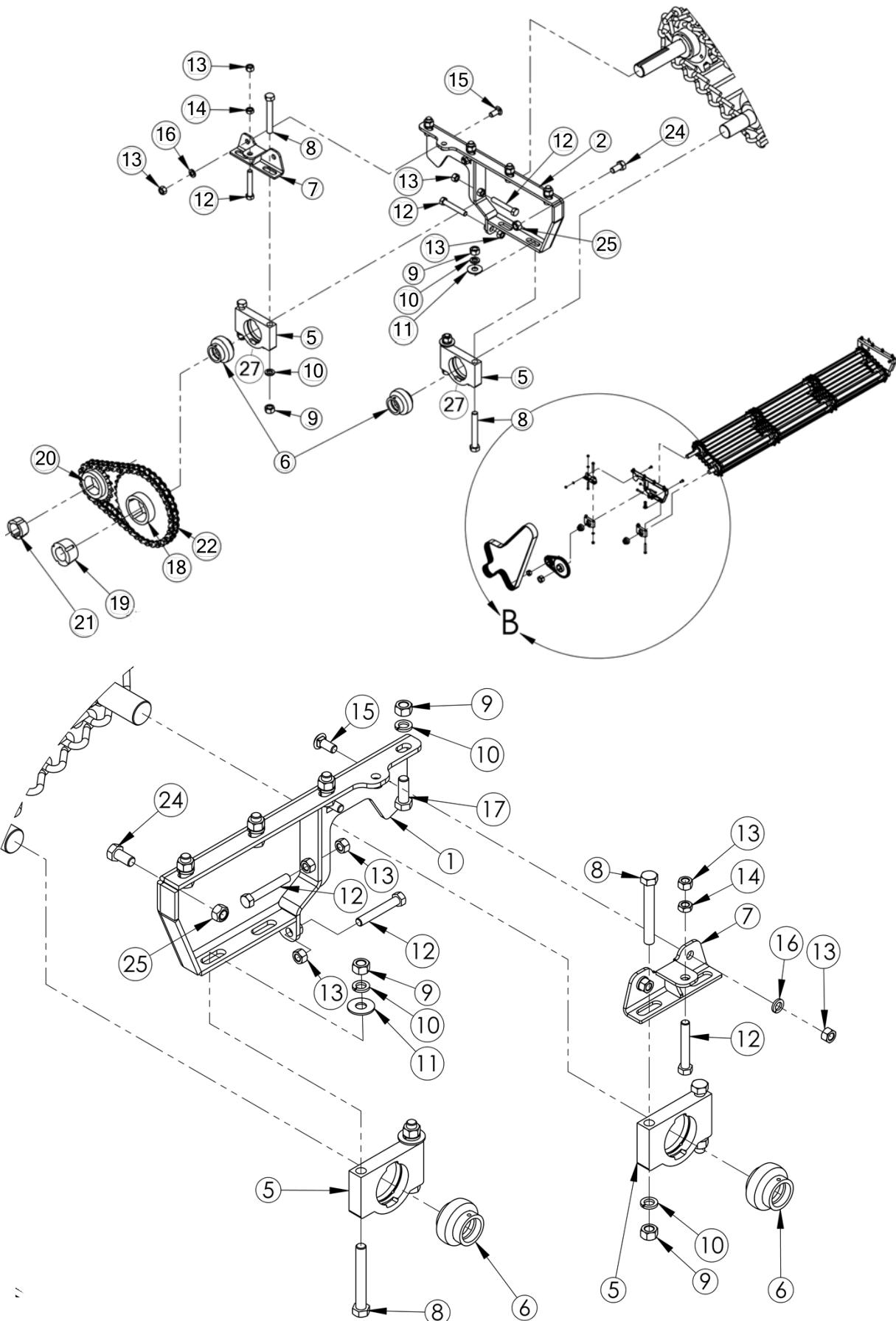


WING CHAIN BED ASSEMBLY - RIGHT

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 1 | 700-2-1265 | LOWER PIVOT WELD - CHAIN BED LH | 1 |
| 2 | 700-2-1266 | LOWER PIVOT WELD - CHAIN BED RH | 1 |
| 3 | 700-2-0803 | DRIVE TUBE ASSY - CHAIN BED 12 ROW WING | 1 |
| 4 | 700-2-0904 | FRONT CHAIN BED TUBE | 1 |
| 5 | 700-2-0377 | BEARING BLOCK ASSY - 1.93 W/GREASE FITTING | 4 |
| 6 | 901-01280 | 1-15/16 INSERT BRG NA-210-31 | 4 |
| 7 | 700-2-1269 | CHAIN BED ADJUSTMENT WELD | 1 |
| 8 | 900-01425 | HEX BOLT - 3/4NC X 5-1/2 GR5 ZP | 4 |
| 9 | 900-06015 | NUT, HH, 3/4-10, ZP | 4 |
| 10 | 900-11017 | WASHER, LOCK, 3/4, ZP | 2 |
| 11 | 900-11038 | 3/4" FLAT WASHER | 2 |
| 12 | 900-01362 | HEX BOLT 5/8 - 11 X 4 GRADE 5 (FULL THREAD) | 2 |
| 13 | 900-06013 | NUT, HH, 5/8-11, ZP | 5 |
| 14 | 900-06280 | NUT HEX JAM 5/8 UNC | 1 |
| 15 | 900-01784 | CARRIAGE BOLT 5/8 NC X 2-1/2 NC | 2 |
| 16 | 900-11015 | WASHER, LOCK, 5/8, ZP | 2 |
| 17 | 900-01403 | HEX BOLT - 3/4NC X 2 GR5 ZP | - |
| 18 | 903-11104 | SPROCKET 80BTL34H (2517 HUB) | 1 |
| 19 | 903-08449 | BUSHING TAPER LOCK 2517 - 1.93 B | 1 |
| 20 | 903-11098 | SPROCKET 80BTL17H (2012 HUB) | 1 |
| 21 | 903-08450 | BUSHING TAPER LOCK 2012 - 1.93 B | 1 |
| 22 | 903-03185 | FRAME DRIVE CHAIN - 46" #80 | 1 |
| 23 | 903-03199 | WING HOOK CHAIN (42" x 21 LKS) | 2 |
| 24 | 900-01399 | 3/4-NC X 1-1/2 HEX BOLT | 1 |
| 25 | 900-06510 | 3/4 NUT, HEX TOP LOCK | 1 |
| 26 | 903-03200 | WING HOOK CHAIN (39" x 21 LKS) | 1 |
| 27 | 905-15024 | ZERK 1/4-28 UNF STRAIGHT | |
| 28 | 700-2-0460 | DRIVE SHAFT WELD - CHAIN BED | 4 |
| 29 | 700-3-0809 | SPROCKET - BED CHAIN | 6 |
| | 700-2-1267 | WING CHAIN BED ASSY (RH) | |



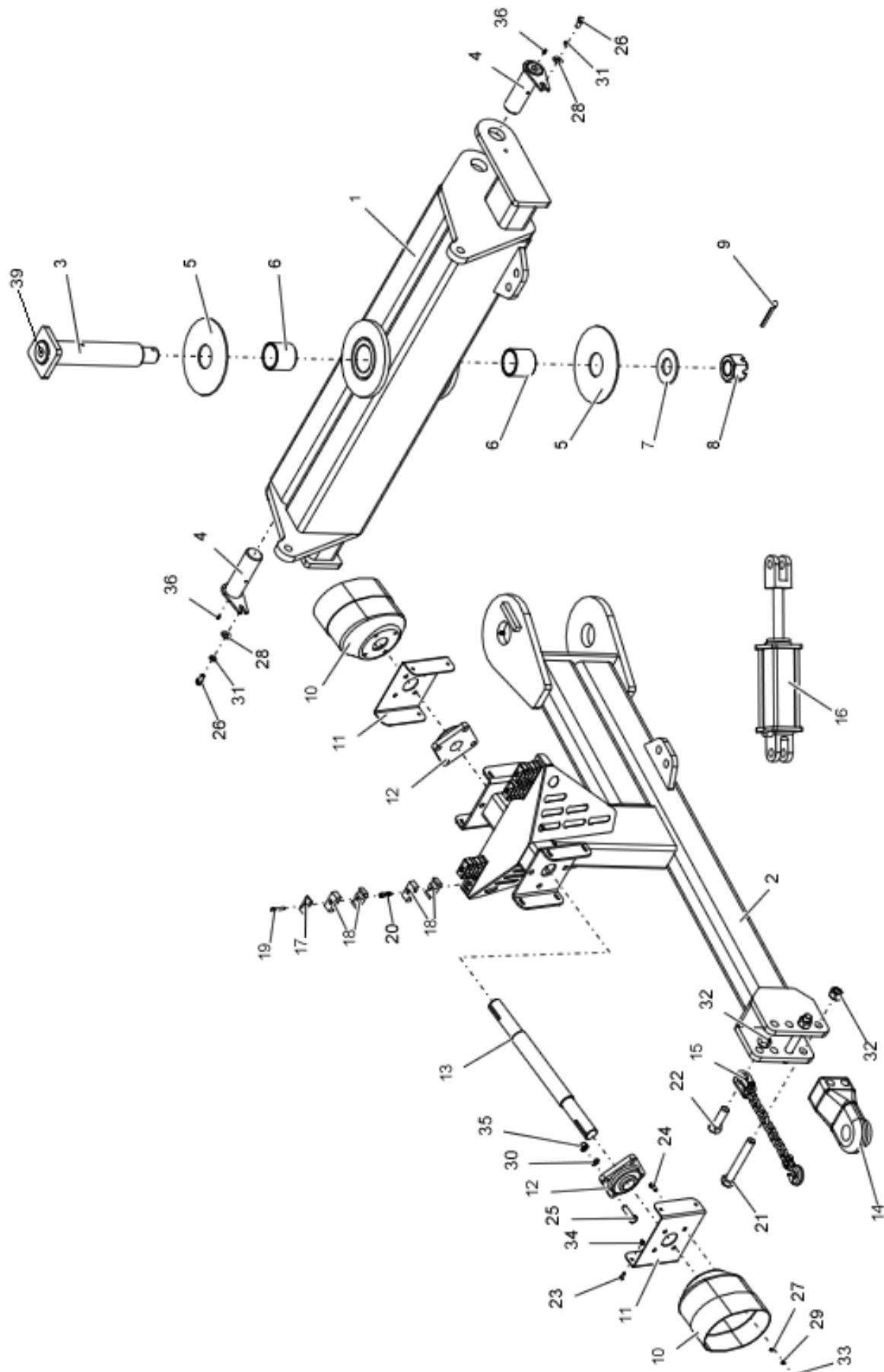
WING CHAIN BED ASSEMBLY - RIGHT



WING CHAIN BED ASSEMBLY - RIGHT

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 1 | 700-2-1265 | LOWER PIVOT WELD - CHAIN BED LH | 1 |
| 2 | 700-2-1266 | LOWER PIVOT WELD - CHAIN BED RH | 1 |
| 3 | 700-2-0803 | DRIVE TUBE ASSY - CHAIN BED 12 ROW WING | 1 |
| 4 | 700-2-0904 | FRONT CHAIN BED TUBE | 1 |
| 5 | 700-2-0377 | BEARING BLOCK ASSY - 1.93 W/GREASE FITTING | 4 |
| 6 | 901-01280 | 1-15/16 INSERT BRG NA-210-31 | 4 |
| 7 | 700-2-1269 | CHAIN BED ADJUSTMENT WELD | 1 |
| 8 | 900-01425 | HEX BOLT - 3/4NC X 5-1/2 GR5 ZP | 4 |
| 9 | 900-06015 | NUT, HH, 3/4-10, ZP | 4 |
| 10 | 900-11017 | WASHER, LOCK, 3/4, ZP | 2 |
| 11 | 900-11038 | 3/4" FLAT WASHER | 2 |
| 12 | 900-01362 | HEX BOLT 5/8 - 11 X 4 GRADE 5 (FULL THREAD) | 2 |
| 13 | 900-06013 | NUT, HH, 5/8-11, ZP | 5 |
| 14 | 900-06280 | NUT HEX JAM 5/8 UNC | 1 |
| 15 | 900-01784 | CARRIAGE BOLT 5/8 NC X 2-1/2 NC | 2 |
| 16 | 900-11015 | WASHER, LOCK, 5/8, ZP | 2 |
| 17 | 900-01403 | HEX BOLT - 3/4NC X 2 GR5 ZP | - |
| 18 | 903-11104 | SPROCKET 80BTL34H (2517 HUB) | 1 |
| 19 | 903-08449 | BUSHING TAPER LOCK 2517 - 1.93 B | 1 |
| 20 | 903-11098 | SPROCKET 80BTL17H (2012 HUB) | 1 |
| 21 | 903-08450 | BUSHING TAPER LOCK 2012 - 1.93 B | 1 |
| 22 | 903-03185 | FRAME DRIVE CHAIN - 46" #80 | 1 |
| 23 | 903-03199 | WING HOOK CHAIN (42" x 21 LKS) | 2 |
| 24 | 900-01399 | 3/4-NC X 1-1/2 HEX BOLT | 1 |
| 25 | 900-06510 | 3/4 NUT, HEX TOP LOCK | 1 |
| 26 | 903-03200 | WING HOOK CHAIN (39" x 21 LKS) | 1 |
| 27 | 905-15024 | ZERK 1/4-28 UNF STRAIGHT | |
| 28 | 700-2-0460 | DRIVE SHAFT WELD - CHAIN BED | 4 |
| 29 | 700-3-0809 | SPROCKET - BED CHAIN | 6 |
| | 700-2-1267 | WING CHAIN BED ASSY (RH) | |

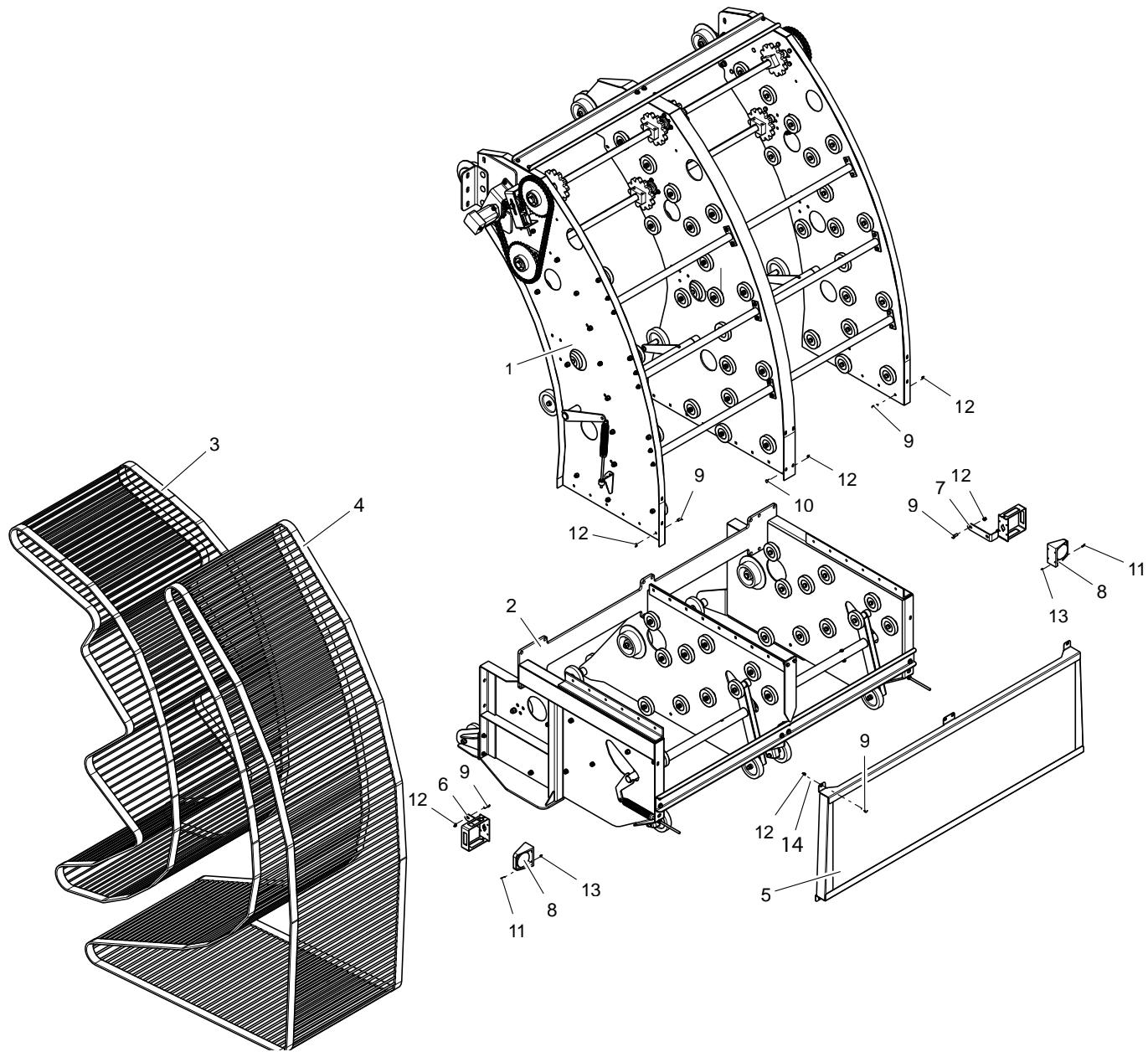
HITCH COMPONENTS



HITCH COMPONENTS

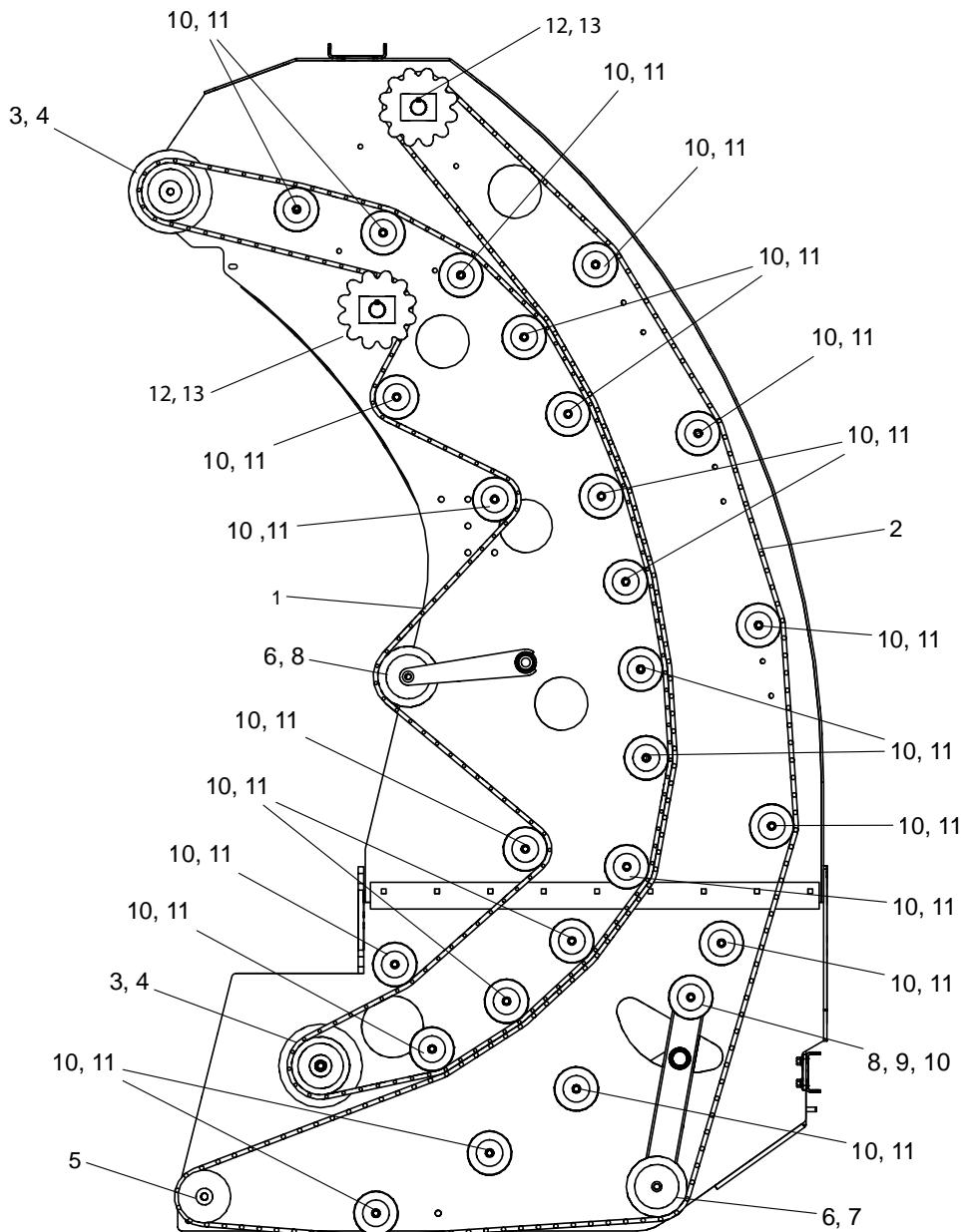
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---------------------------------|------|
| 1 | 700-2-0546 | INNER HITCH | 1 |
| 2 | 700-2-0912 | FRONT HITCH | 1 |
| 3 | 700-2-0340 | HITCH PIN | 1 |
| 4 | 700-2-0019 | PIVOT PIN | 2 |
| 5 | 700-3-0741 | THRUST WASHER | 2 |
| 6 | 901-01344 | BUSHING | 2 |
| 7 | 900-11048 | WASHER, 2" | 1 |
| 8 | 900-06239 | SLOTTED NUT, 2 NC | 1 |
| 9 | 900-23084 | COTTER PIN, 3/8 x 3-1/2 | 1 |
| 10 | 903-18007 | PTO BELL | 2 |
| 11 | 500-3-2164 | GUARD BRACKET | 2 |
| 12 | 901-01185 | BEARING, 4-BOLT, 1-3/4 | 2 |
| 13 | 700-3-2357 | PTO TRANSFER SHAFT | 1 |
| 14 | 905-23023 | HITCH, CAT 4 BULL-PULL | 1 |
| 15 | 905-07123 | SAFETY TOW CHAIN, 21,000 LB | 1 |
| 16 | 905-21456 | HYDRAULIC CYLINDER, 3-1/2 x 8 | 1 |
| 17 | 900-31068 | TOP PLATE | - |
| 18 | 900-31069 | CLAMP BODY, 3/8" | - |
| 19 | 900-02356 | BOLT, 5/16 x 1-3/4 | - |
| 20 | 900-31071 | STACKING BOLT, 5/16 | - |
| 21 | 900-02930 | BOLT, 1 NC x 7 | - |
| 22 | 900-01519 | BOLT, HH, 1-8 x 3, GR5 ZP | - |
| 23 | 900-01005 | BOLT, 1/2 NC x 3/4 | - |
| 24 | 900-01105 | BOLT, 3/8 NC x 3/4 | - |
| 25 | 900-01345 | BOLT, 5/8 NC x 2 | - |
| 26 | 900-01221 | BOLT, 1/2 NC x 1 | - |
| 27 | 900-11033 | WASHER, 3/8 | - |
| 28 | 900-11035 | WASHER, 1/2 | - |
| 29 | 900-11011 | LOCK WASHER, 3/8 | - |
| 30 | 900-11015 | LOCK WASHER, 5/8 | - |
| 31 | 900-11013 | LOCK WASHER, 1/2 | - |
| 32 | 900-06514 | LOCK NUT, 1 NC | - |
| 33 | 900-06005 | NUT, 3/8 NC | - |
| 34 | 900-06135 | SPIRALOCK NUT, 1/4 NC | - |
| 35 | 900-06013 | NUT, 5/8 NC | - |
| 36 | 905-15024 | ZERK, 1/4-28 | - |
| 37 | 700-3-3034 | ANTI-SKID STRIP HITCH | - |
| 38 | 900-06504 | NUT, LOCK, TOP, 1/2-13, GR C ZP | - |
| 39 | 905-15001 | 1/8 PTF STR GRS FTNG | 1 |
| | 700-2-0545 | HITCH ASSY - 12 ROW | |

ELEVATOR COMPONENTS



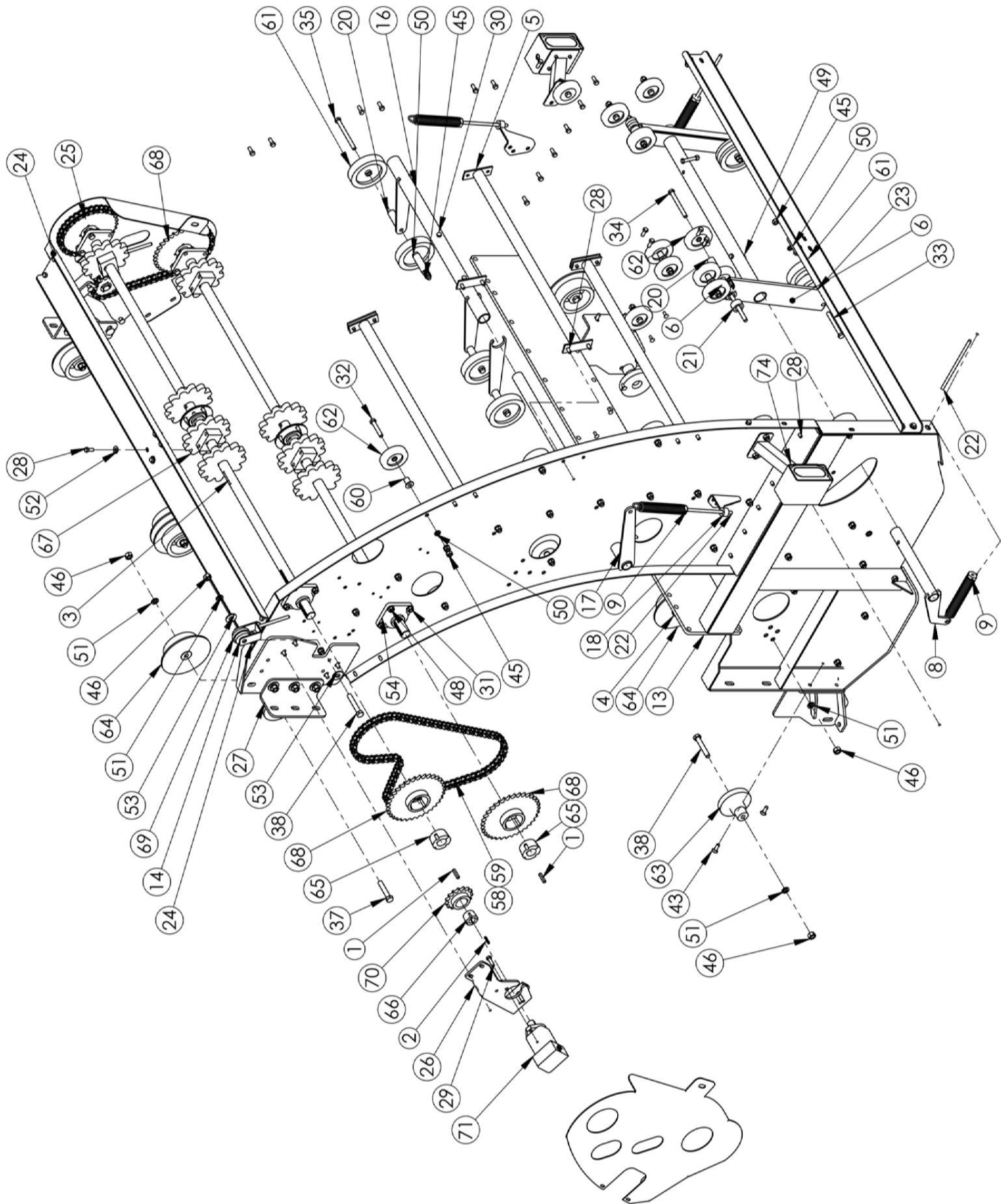
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|------------|-------------|--------------------------------|------|
| 1 | | UPPER ELEVATOR | |
| 2 | | LOWER ELEVATOR | |
| 3 | 903-03170 | INSIDE BELTED CHAIN, 328.74" | 2 |
| 4 | 903-03169 | OUTSIDE BELTED CHAIN, 372.05" | 2 |
| 5 | 700-2-1109 | SHIELD | 1 |
| 6 | 700-2-1104 | RED LAMP BRACKET (LH) | 1 |
| 7 | 700-2-1106 | RED LAMP BRACKET (RH) | 1 |
| 8 | 904-01155 | RED LAMP | 2 |
| 9 | 900-01223 | BOLT, 1/2 NC x 1-1/4 | - |
| 10 | 900-01695 | CARRIAGE BOLT, 3/8 NC x 1 | - |
| 11 | 900-01009 | BOLT, 1/4 NC x 1 | - |
| 12 | 900-06143 | SPIRALOCK NUT, 1/2 NC | - |
| 13 | 900-06496 | TOP LOCK NUT, 1/4 NC | - |
| 14 | 900-11035 | 1/2 FLAT WASHER | - |
| 700-2-0886 | | DUAL ELEVATOR ASSEMBLY - SHORT | |

ELEVATOR ROLLER COMPONENTS



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--------------------------------|------|
| 1 | 903-03170 | INSIDE BELTED CHAIN | 2 |
| 2 | 903-03169 | OUTSIDE BELTED CHAIN | 2 |
| - | 903-03168 | #80-1 CONNECTING LINK | - |
| 3 | 903-08437 | FLANGED ROLLER (6.5") | 8 |
| 4 | 500-3-1463 | WASHER | 8 |
| 5 | 903-08435 | ROLLER (6") | 4 |
| 6 | 903-08425 | ROLLER (7") | 8 |
| 7 | 700-3-1805 | SPACER TUBE | 4 |
| 8 | 700-3-0417 | SLEEVE | 8 |
| 9 | 700-3-0547 | LOWER TENSIONER SPACER | 4 |
| 10 | 903-08433 | ROLLER (5") | 104 |
| 11 | 903-08424 | SPACER | 100 |
| 12 | 903-11067 | DRIVE SHAFT SPROCKET | 8 |
| 13 | 100-3-3333 | KEY - 3/8 X 3/8 X 2 | 4 |
| | 700-2-0886 | DUAL ELEVATOR ASSEMBLY - SHORT | |

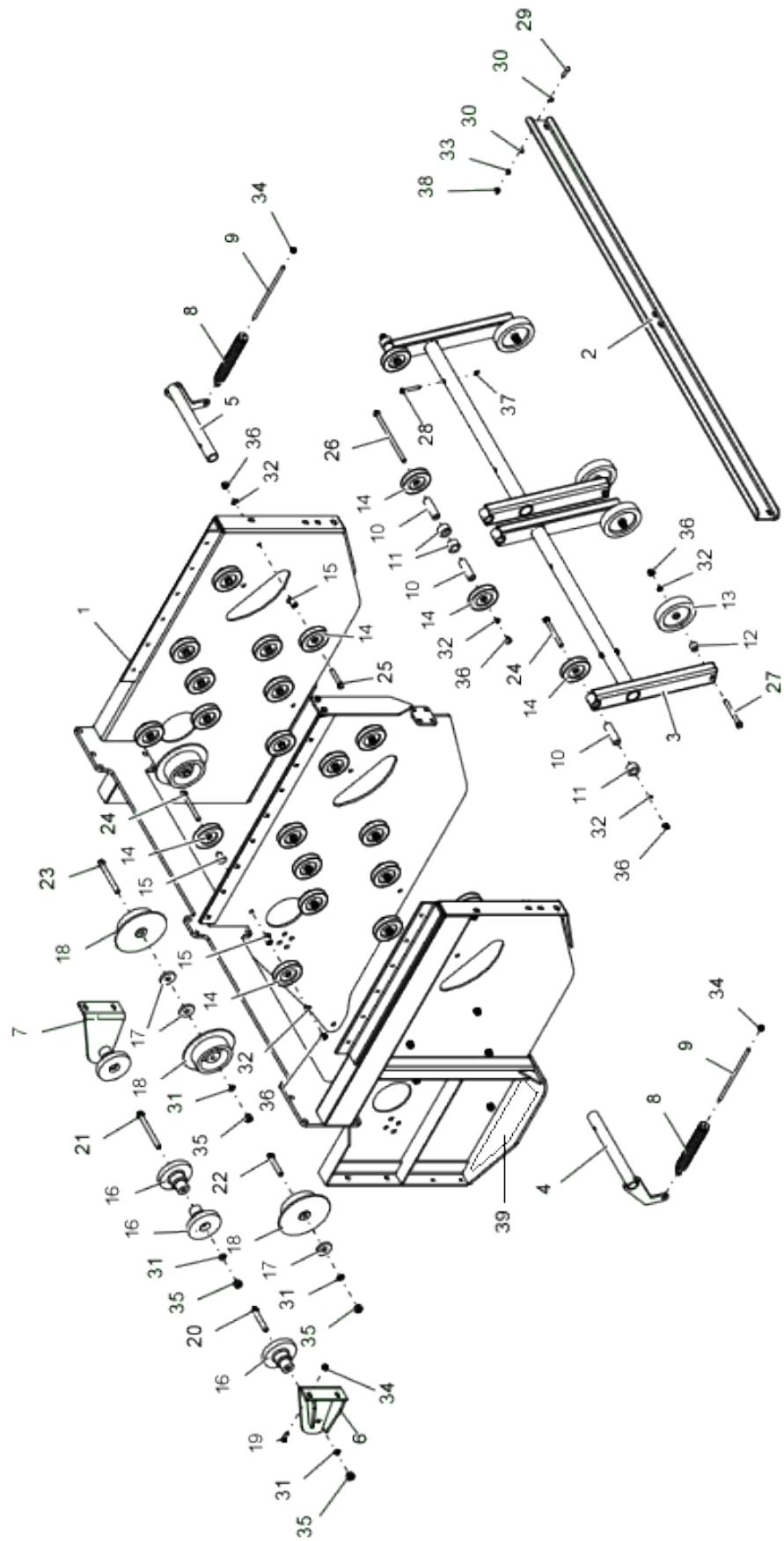
UPPER ELEVATOR COMPONENTS



UPPER ELEVATOR COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--|------|
| 1 | 100-3-3333 | KEY - 3/8 X 3/8 X 2 | 4 |
| 2 | 100-3-3676 | KEY - 1/4 X 5/16 STEP X 1-1/2 LONG | 2 |
| 3 | 120-3-0192 | KEY 3/8 X 3/8 X 3 | 8 |
| 4 | 500-3-1463 | WASHER | 8 |
| 5 | 700-2-0023 | SPREADER BAR WELD | 3 |
| 6 | 700-2-0028 | OUTSIDE ARM WELD | 3 |
| 8 | 700-2-0381 | TENSION ARM WELD (OUTSIDE) | 1 |
| 9 | 700-2-0550 | SPRING TENSIONER ASSEMBLY | 3 |
| 14 | 700-2-0947 | CLEVIS WELD - IDLEMASTER TENSIONER | 3 |
| 16 | 700-2-0949 | TENSION ARM WELD (12 ROW) | 8 |
| 17 | 700-2-0950 | TENSION ARM WELD (12 ROW) | 3 |
| 18 | 700-2-0972 | SPRING TENSIONER BRACKET (LH) | 3 |
| 20 | 700-3-0417 | SLEEVE - OUTSIDE ARM | 8 |
| 21 | 700-3-0547 | SPACER - ELEVATOR H-WELD | 4 |
| 22 | 700-3-1255 | 1/2-13 TENSION ROD | 4 |
| 23 | 700-3-1805 | SPACER TUBE - ROLLER | 4 |
| 24 | 700-3-2468 | TOP CHANNEL-REAR ELEVATOR | 1 |
| 25 | 700-3-2470 | DRIVE SHAFT -REAR ELEVATOR (12 ROW) | 2 |
| 26 | 700-3-2471 | MOUNT PLATE - HYD MOTOR REAR ELEVATOR 12 ROW | 2 |
| 28 | 900-01223 | BOLT, HEX HEAD, 1/2" X 1-1/4", GR5, ZP | 44 |
| 29 | 900-01227 | BOLT HEX 1/2 X 1 3/4 GR 5 ZP | 4 |
| 30 | 900-01237 | BOLT HEX 1/2-13 X 3 | 4 |
| 31 | 900-01341 | HEX BOLT 5/8 NC X 1-1/2 NC GR5 ZP | 12 |
| 32 | 900-01357 | SCREW, CAP 5/8 X 3-1/2 UNC | 52 |
| 33 | 900-01367 | SCREW, CAP 5/8 X 5-1/2 UNC | 4 |
| 34 | 900-01369 | SCREW, CAP 5/8 X 6 UNC zp | 28 |
| 35 | 900-01373 | SCREW, CAP 5/8 X 7 UNC zp | 4 |
| 37 | 900-01419 | 3/4-10 X 4 HEX BOLT | 4 |
| 38 | 900-01421 | 3/4-10 X 4.5 HEX BOLT | 4 |
| 43 | 900-01751 | BOLT, CRG, 1/2-13 X 1-1/2, GR5 ZP | 12 |
| 45 | 900-06013 | NUT, HH, 5/8-11, ZP | 89 |
| 46 | 900-06015 | NUT, HH, 3/4-10, ZP | 17 |
| 47 | 900-06143 | 1/2 NC SPIRALOCK NUT ZP GR5 | 87 |
| 48 | 900-06145 | 5/8 WHIZ NUT | 12 |
| 49 | 900-06504 | NUT, LOCK, TOP, 1/2-13, GR C ZP | 4 |
| 50 | 900-11015 | WASHER, LOCK, 5/8, ZP | 89 |
| 51 | 900-11017 | WASHER, LOCK, 3/4, ZP | 18 |
| 52 | 900-11035 | 1/2 FLAT WASHER | 4 |
| 53 | 900-11038 | 3/4" FLAT WASHER | 10 |
| 54 | 901-01185 | BEARING - NANFS 209-28 1.75 | 4 |
| 58 | 900-06143 | 1/2 NC SPIRALOCK NUT ZP GR5 | 0 |
| 58 | 903-03168 | #80-1 CONNECTING LINK | 2 |
| 59 | 903-03178 | REAR ELEVATOR DRIVE CHAIN - 89" LENGTH (#80 CHAIN) | 2 |
| 60 | 903-08424 | SPACER ROLLER STANDOFF | 104 |
| 61 | 903-08425 | 7" CAST RUBBER WHEEL | 8 |
| 62 | 903-08433 | 5" RUBBER ROLLER | 108 |
| 63 | 903-08435 | NOSE ROLLER, 6" | 4 |
| 65 | 903-08471 | BUSHING TAPPER LOCK 2517 - 1.75 B | 4 |
| 66 | 903-08474 | BUSHING TAPPER LOCK 1615 - 1.25 B | 2 |
| 67 | 903-11067 | SPROCKET - 12T 50MM PITCH 1.75 BORE | 8 |
| 68 | 903-11104 | SPROCKET 80BTL34H (2517 HUB) | 4 |
| 69 | 903-11106 | 3" IDLEMASTER TENSIONER | 2 |
| 70 | 903-11107 | SPROCKET - #80BTL15 (1615) | 2 |
| 71 | 904-05248 | HYD MOTOR - OMS200 | 1 |
| 76 | 700-3-3561 | ELEVATOR CHAIN GUARD LH | 1 |
| 77 | 700-2-1391 | OUTSIDE ROLLER MOUNT WELD LH - REAR ELEVATOR | 1 |
| | 700-2-0886 | DUAL ELEVATOR ASSEMBLY - SHORT | |

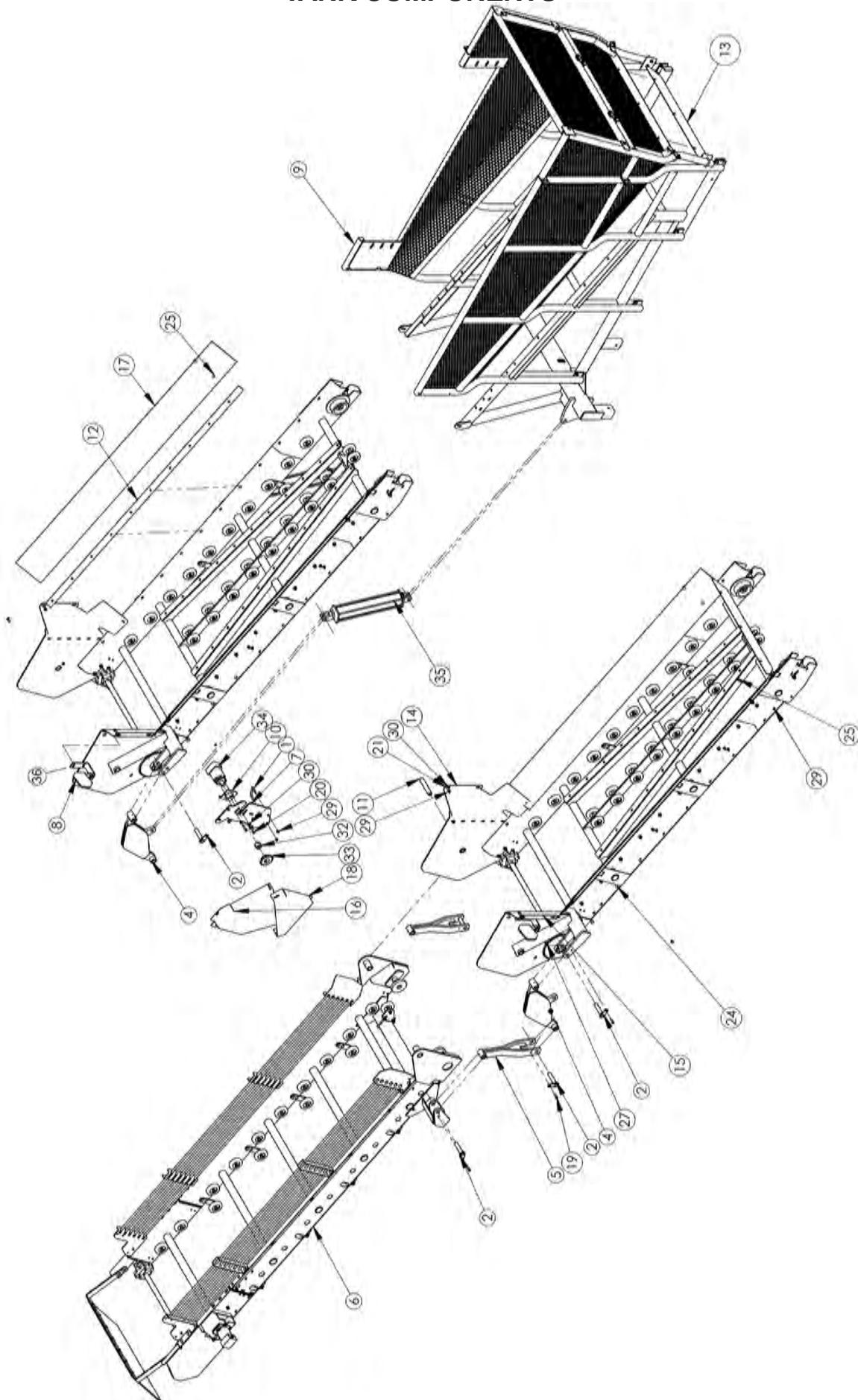
LOWER ELEVATOR COMPONENTS



LOWER ELEVATOR COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--------------------------------|------|
| 1 | 700-2-0909 | LOWER ELEVATOR MOUNT | 1 |
| 2 | 700-3-2467 | LOWER CHANNEL | 1 |
| 3 | 700-2-0028 | INSIDE TENSIONER ARM | 2 |
| 4 | 700-2-0381 | OUTSIDE TENSIONER ARM (LH) | 1 |
| 5 | 700-2-0844 | OUTSIDE TENSIONER ARM (RH) | 1 |
| 6 | 700-2-1005 | ROLLER MOUNT (LH) | 1 |
| 7 | 700-2-1006 | ROLLER MOUNT (RH) | 1 |
| 8 | 700-2-0550 | SPRING TENSIONER | 2 |
| 9 | 700-3-1255 | TENSIONER ROD | 2 |
| 10 | 700-3-0417 | OUTSIDE ARM SLEEVE | 4 |
| 11 | 700-3-0547 | H-WELD SPACER | 4 |
| 12 | 700-3-1805 | SPACER TUBE | 4 |
| 13 | 903-08425 | ROLLER, 7" | 4 |
| 14 | 903-08433 | ROLLER, 5" | 40 |
| 15 | 903-08424 | SPACER, 5/8 x 1-1/2 | 36 |
| 16 | 903-08435 | NOSE ROLLER, 6" | 4 |
| 17 | 500-3-1463 | WASHER | 4 |
| 18 | 903-08437 | FLANGED ROLLER, 6.5" | 4 |
| 19 | 900-01751 | CARRIAGE BOLT, 1/2 NC x 1-1/2 | - |
| 20 | 900-01421 | BOLT, 3/4 NC x 4-1/2 | - |
| 21 | 900-01433 | BOLT, 3/4 NC x 7-1/2 | - |
| 22 | 900-01419 | BOLT, 3/4 NC x 4 | - |
| 23 | 900-01429 | BOLT, 3/4 NC x 6-1/2 | - |
| 24 | 900-01369 | BOLT, 5/8 NC x 6 | - |
| 25 | 900-01357 | BOLT, 5/8 NC x 3-1/2 | - |
| 26 | 900-01389 | BOLT, 5/8 NC x 11 | - |
| 27 | 900-01367 | BOLT, 5/8 NC x 5-1/2 | - |
| 28 | 900-01237 | BOLT, 1/2 NC x 3 | - |
| 29 | 900-01225 | BOLT, 1/2 NC x 1-1/2 | - |
| 30 | 900-11035 | WASHER, 1/2 | - |
| 31 | 900-11017 | LOCK WASHER, 3/4 | - |
| 32 | 900-11015 | LOCK WASHER, 5/8 | - |
| 33 | 900-11013 | LOCK WASHER, 1/2 | - |
| 34 | 900-06143 | SPIRALOCK NUT, 1/2 NC | - |
| 35 | 900-06015 | NUT, 3/4 NC | - |
| 36 | 900-06013 | NUT, 5/8 NC | - |
| 37 | 900-06504 | TOP LOCK NUT, 1/2 NC | - |
| 38 | 900-06009 | NUT, 1/2 NC | - |
| 39 | 700-3-3022 | ANTI-SKID STRIP ELEVATOR | - |
| | 700-2-0886 | DUAL ELEVATOR ASSEMBLY - SHORT | |

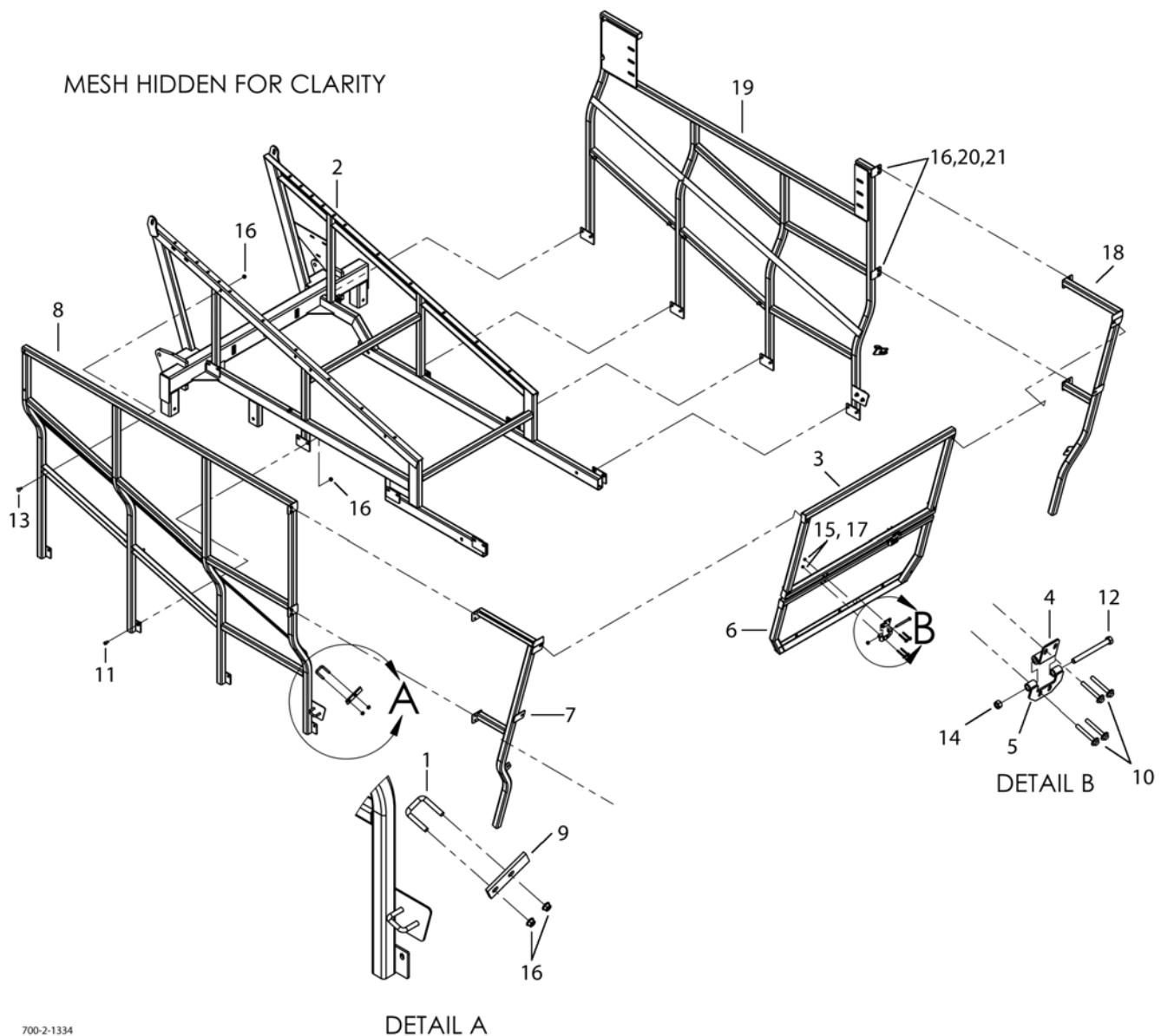
TANK COMPONENTS



TANK COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---------------------------------------|------|
| 1 | 200-3-1445 | U-BOLT 4 x 3 x 1/2 | 2 |
| 2 | 500-2-0684 | 1-1/4" PIN WELDMENT | 6 |
| 3 | 700-2-0829 | TANK BOTTOM ASSY - 12 ROW | 1 |
| 4 | 700-2-0967 | PUSH ARM WELD - 12 ROW | 2 |
| 5 | 700-2-0968 | PIVOT BAR WELD - BOOM | 2 |
| 6 | 700-2-1064 | OUTER BOOM ASSY - 12 ROW | 1 |
| 7 | 700-2-1152 | HYDRAULIC MOTOR MOUNT - TANK | 1 |
| 8 | 500-3-1721 | FIELD LIGHT | 1 |
| 9 | 700-2-1334 | TANK HOPPER REMOVABLE - 12 ROW (2016) | 1 |
| 10 | 700-3-0894 | MOUNT PLATE - HYD MOTOR | 1 |
| 11 | 700-3-2117 | PIVOT PIN - BOOM | 2 |
| 12 | 700-3-2592 | SHEET - MESH HOLDER BOLT PLATE | 2 |
| 13 | 700-3-2593 | RETRACTABLE GATE FOR DOOR | 1 |
| 14 | 700-3-2594 | CORNER GUSSET - HOPPER REAR | 1 |
| 15 | 700-3-2595 | CORNER GUSSET - HOPPER FRONT | 1 |
| 16 | 700-3-2804 | GUARD - TANK SPROCKET | 1 |
| 17 | 700-3-2929 | UHMW FILLER SHEET | 2 |
| 18 | 700-3-3016 | GUARD - TANK SPROCKET BOTTOM HALF | 1 |
| 19 | 900-01227 | BOLT HH 1/2-13 NC X 1-3/4 GRD 5 ZP | 6 |
| 20 | 900-01233 | BOLT HH 1/2-13 NC X 2-1/2 GRD 5 | 2 |
| 21 | 900-01237 | BOLT HEX SS 1/2-13 X 3 | 4 |
| 22 | 900-01353 | 5/8 NC X 3 HEX BOLT GRADE 5 | 1 |
| 23 | 900-01695 | CARRIAGE BOLT 3/8 NC X 1 ZP | 1 |
| 24 | 900-01750 | CARRIAGE BOLT 1/2 NC X 1 1/4 GR 5 ZP | 22 |
| 25 | 900-01751 | BOLT, CRG, 1/2-13 X 1-1/2, GR5 ZP | 54 |
| 26 | 900-01784 | CARRIAGE BOLT 5/8 NC X 2-1/2 NC | 2 |
| 27 | 900-06009 | NUT HEX 1/2-13 NC | 6 |
| 28 | 900-06139 | NUT WHIZ 3/8-16 NC | 1 |
| 29 | 900-06143 | NUT WHIZ 1/2-13 NC GRD 5 ZP | 84 |
| 30 | 900-11035 | WASHER FLAT 1/2 | 46 |
| 31 | 903-03182 | UNLOAD CONVEYOR | 1 |
| 32 | 903-08474 | BUSHING TAPER LOCK 1615 - 1.25 B | 1 |
| 33 | 903-11107 | SPROCKET - #80BTL15 (1615) | 1 |
| 34 | 904-05248 | HYD MOTOR - OMS200 | 1 |
| 35 | 905-21417 | HYD CYL - 4 BORE X 24 SROKE | 2 |
| 36 | 700-3-2994 | LIGHT MOUNT TANK | 1 |
| | 700-2-1335 | TANK & CONVEYOR ASSY - 12 ROW (2016) | |

TANK FRAME COMPONENTS

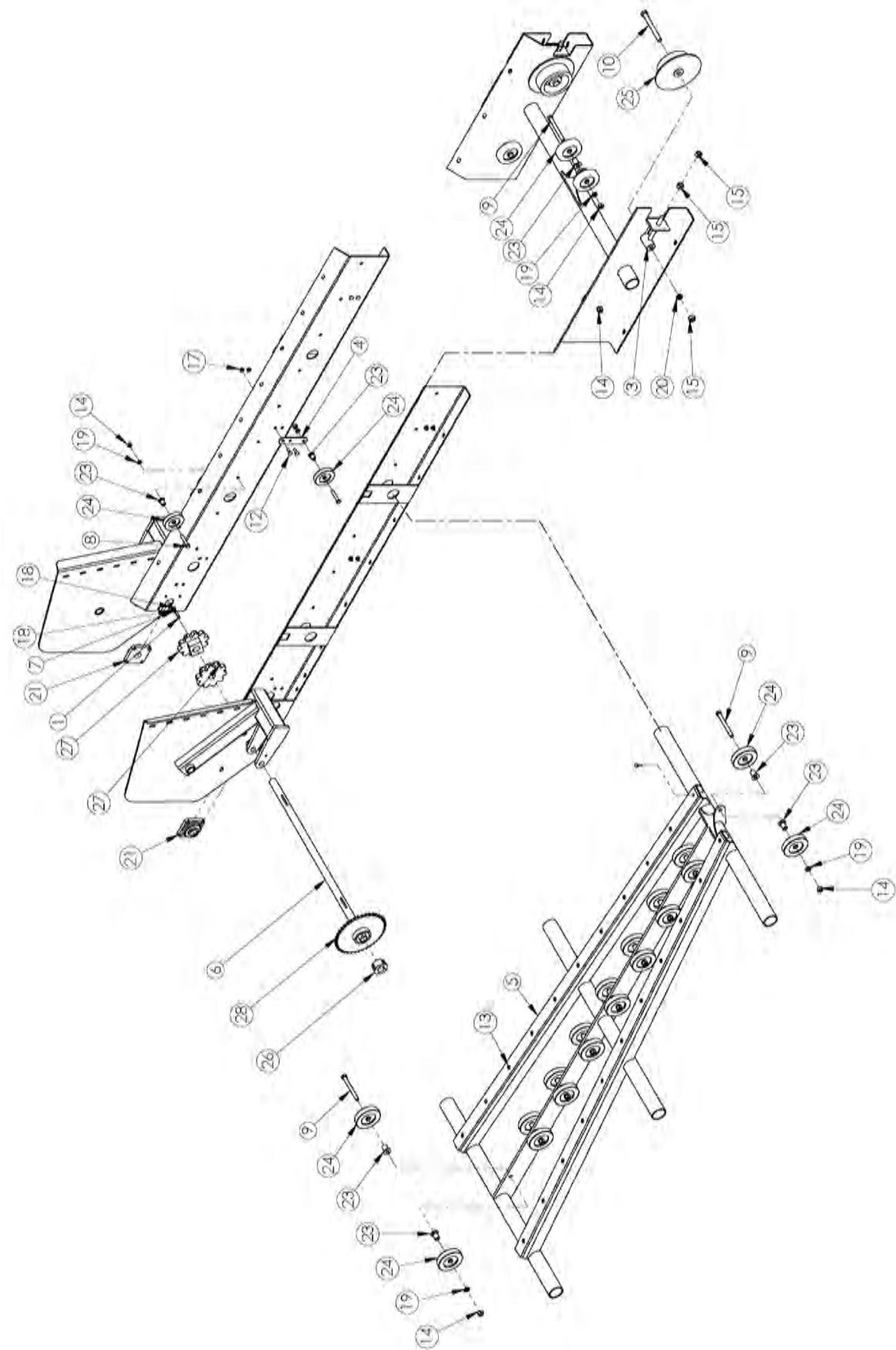


700-2-1334

TANK FRAME COMPONENTS

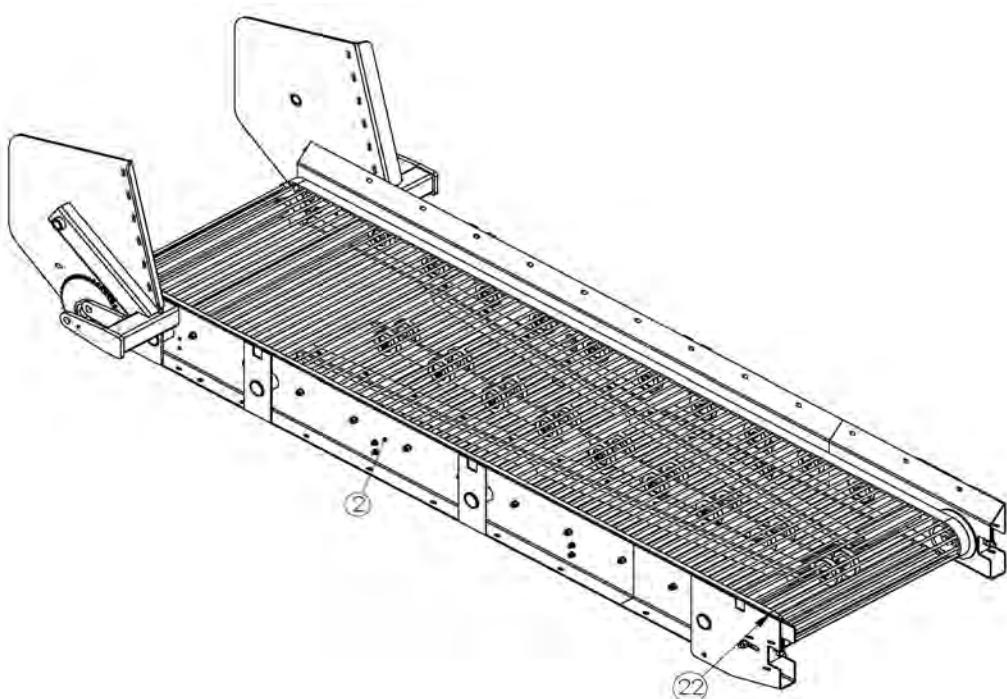
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--|------|
| 1 | 200-3-0801 | U-BOLT, 1/2-13 X 2 X 3 X 1 | 2 |
| 2 | 700-2-0966 | UNDERCARRIAGE WELD - TANK | 1 |
| 3 | 700-2-0977 | TANK GATE - UPPER SIDE | 1 |
| 4 | 700-2-0978 | DOOR HINGE WELD - TANK | 2 |
| 5 | 700-2-0979 | LOWER HINGE BRACKET WELD | 2 |
| 6 | 700-2-0980 | HINGED GATE | 1 |
| 7 | 700-2-1329 | TANK FRONT WELD SMALL- 12 ROW (2016) | 1 |
| 8 | 700-2-1330 | TANK FRONT WELD BIG- 12 ROW (2016) | 1 |
| 9 | 700-3-2917 | BOLT PLATE - DOOR LOCK | 2 |
| 10 | 900-01125 | BOLT, HH 3/8 NC X 2-3/4 | 8 |
| 11 | 900-01221 | BOLT HEX 1/2" X 1" | 22 |
| 12 | 900-01251 | BOLT, HEX HEAD, 1/2-13 X 5-1/2, GR5 ZP | 2 |
| 13 | 900-01750 | CARRIAGE BOLT 1/2 NC X 1 1/4 GR 5 ZP | 8 |
| 14 | 900-06009 | NUT HEX 1/2 UNC | 2 |
| 15 | 900-06139 | 3/8 NC FLANGED WHIZ NUT | 8 |
| 16 | 900-06143 | 1/2 NC SPIRALOCK NUT ZP GR5 | 38 |
| 17 | 900-11033 | FLAT WASHER 3/8 ZP | 8 |
| 18 | 700-2-1331 | TANK BACK WELD SMALL - 12 ROW | 1 |
| 19 | 700-2-1332 | TANK BACK WELD BIG - 12 ROW | 1 |
| 20 | 900-01237 | BOLT HEX SS 1/2-13 X 3 | |
| 21 | 900-11035 | WASHER FLAT 1/2 | |
| | 700-2-1334 | TANK HOPPER REMOVABLE - 12 ROW (2016) | |

TANK CONVEYOR COMPONENTS

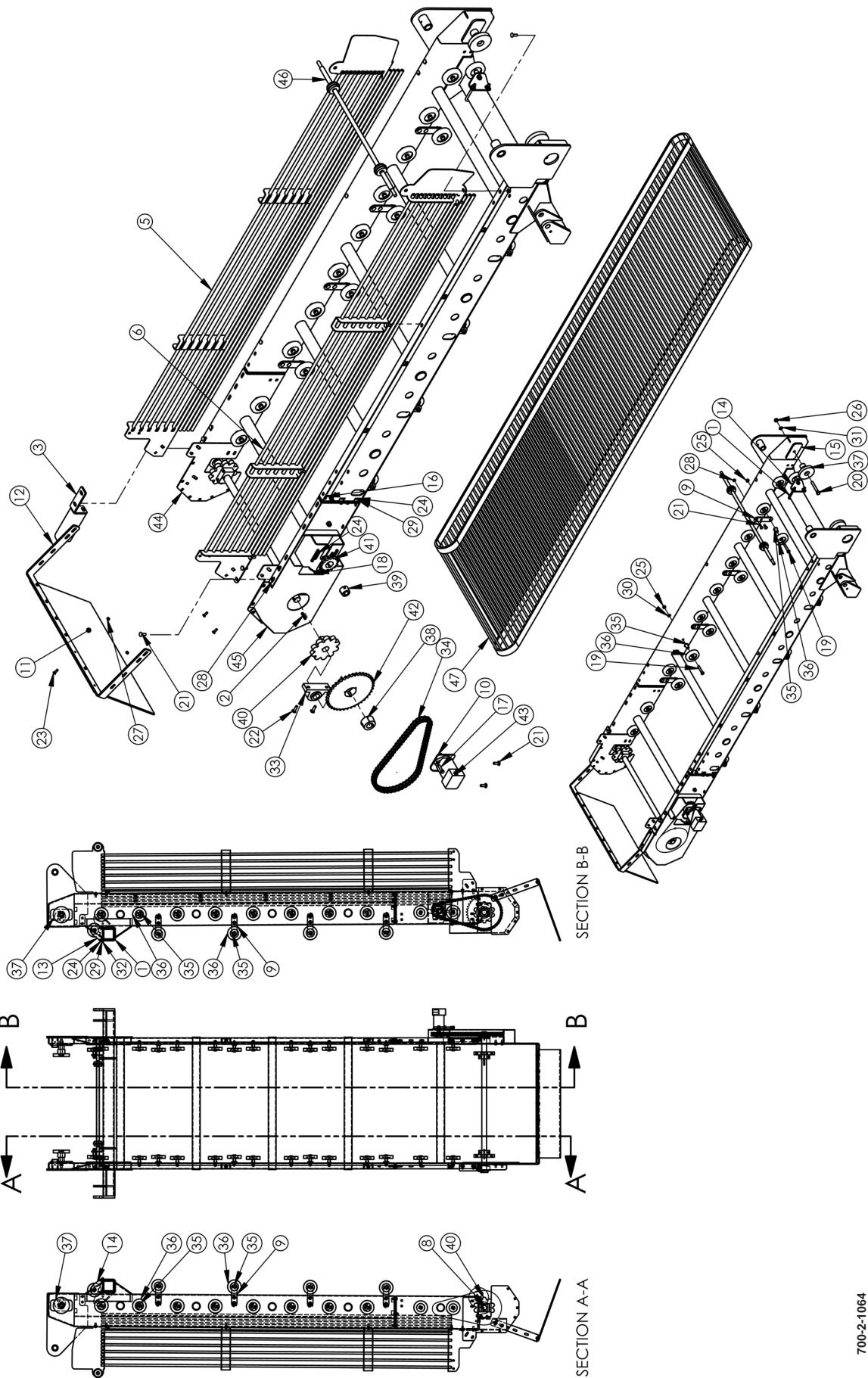


TANK CONVEYOR COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 1 | 100-3-3333 | KEY - 3/8 X 3/8 X 2 | 2 |
| 2 | 700-2-0955 | LOWER TANK WELD - SIDE TANK (2011) | 1 |
| 3 | 700-2-1070 | LOWER PULLEY TENSIONER | 2 |
| 4 | 700-3-0230 | ROLLER DROP STRAP | 4 |
| 5 | 700-3-1728 | UHMW TANK SLIDE | 2 |
| 6 | 700-3-2768 | DRIVE SHAFT - TANK | 1 |
| 7 | 900-01345 | BOLT HH 5/8-11 NC X 2 GRD 5 ZP | 8 |
| 8 | 900-01357 | SCREW, CAP 5/8 X 3-1/2 UNC | 24 |
| 9 | 900-01369 | SCREW, CAP 5/8 X 6 UNC zp | 9 |
| 10 | 900-01431 | HEX BOLT - 3/4 NC X 7 GR5 | 2 |
| 11 | 900-01695 | CARRIAGE BOLT 3/8 NC X 1 ZP | 2 |
| 12 | 900-01751 | BOLT, CRG, 1/2-13 X 1-1/2, GR5 ZP | 8 |
| 13 | 900-03468 | 3/8 X 1-1/4 PLOW BOLT | 22 |
| 14 | 900-06013 | NUT HEX 5/8-11 NC ZP | 33 |
| 15 | 900-06015 | NUT HEX 3/4-10 NC ZP | 6 |
| 16 | 900-06139 | NUT WHIZ 3/8-16 NC | 24 |
| 17 | 900-06143 | NUT WHIZ 1/2-13 NC GRD 5 ZP | 8 |
| 18 | 900-06145 | NUT WHIZ 5/8-11 NC | 8 |
| 19 | 900-11015 | WASHER LOCK 5/8 ZP | 34 |
| 20 | 900-11017 | WASHER LOCK 3/4 ZP | 2 |
| 21 | 901-01185 | BEARING - NANFS 209-28 1.75 | 2 |
| 22 | 903-03191 | BELTED CHAIN CONVEYOR 312.99" (159 LINKS) | 1 |
| 23 | 903-08424 | SPACER ROLLER STANDOFF | 42 |
| 24 | 903-08433 | 5" RUBBER ROLLER | 42 |
| 25 | 903-08437 | 6 INCH NOSE ROLLER | 2 |
| 26 | 903-08471 | BUSHING TAPER LOCK 2517 - 1.75 B | 1 |
| 27 | 903-11068 | SPROCKET - 10T 50MM PITCH 1.75 BORE | 2 |
| 28 | 903-11110 | #80BTL40H SPROCKET FOR 24517 HUB | 1 |
| | 700-2-0829 | TANK BOTTOM ASSY - 12 ROW | |



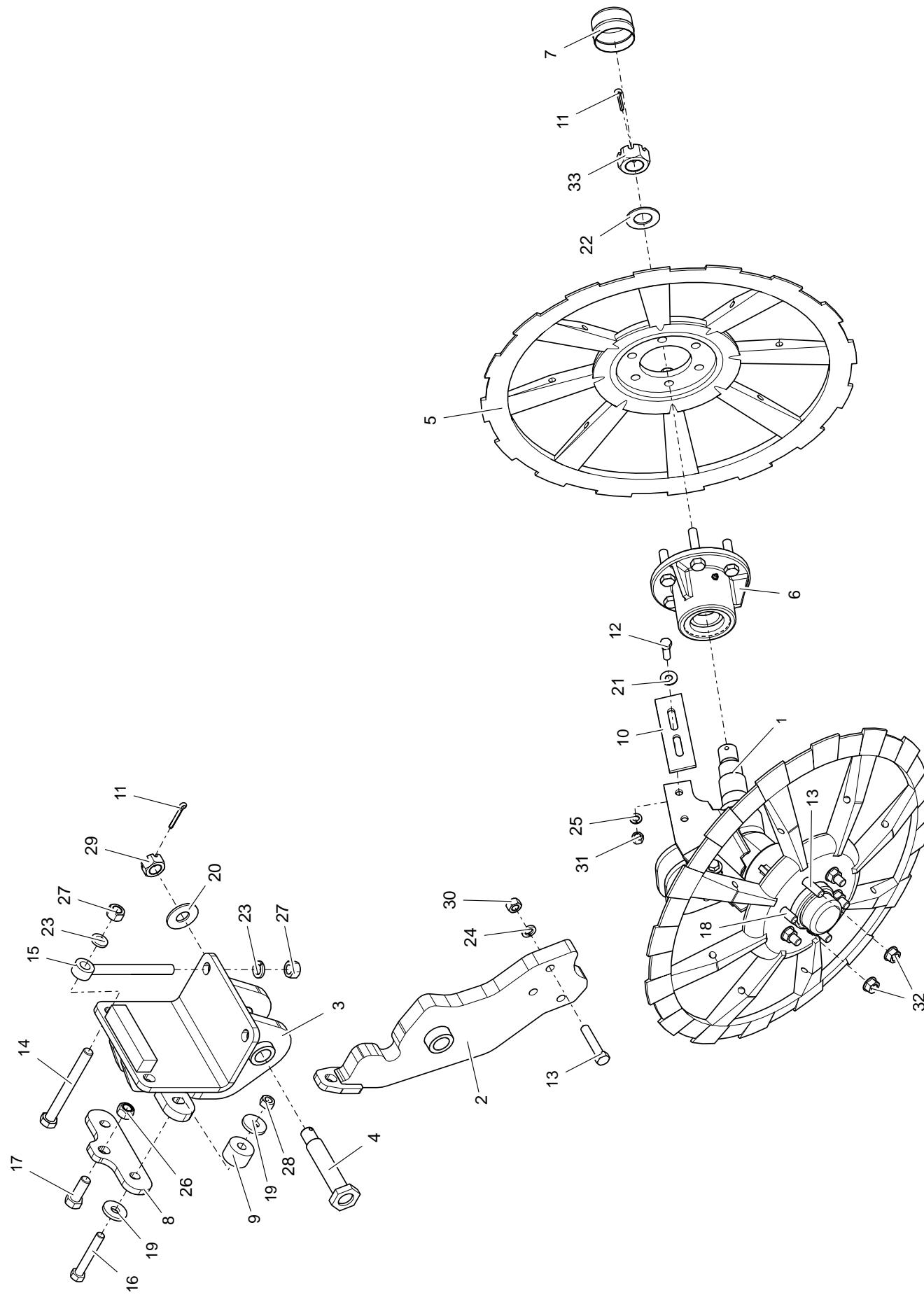
BOOM CONVEYOR COMPONENTS



BOOM CONVEYOR COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 1 | 100-3-2582 | U-BOLT 1/2 X 4 X 5.5 long | 2 |
| 2 | 100-3-3333 | KEY - 3/8 X 3/8 X 2 | 2 |
| 3 | 700-2-0992 | BOOM STOP WELD - RH | 1 |
| | 700-2-0993 | BOOM STOP WELD - LH | 1 |
| 4 | 700-2-1065 | OUTER BOOM WELD - 12 ROW | 1 |
| 5 | 700-2-1066 | SIDE RAIL RH - 12 ROW | 1 |
| 6 | 700-2-1067 | SIDE RAIL - LH 12 ROW | 1 |
| 7 | 700-2-1069 | BOOM EXTENSION - 12 ROW | 1 |
| 8 | 700-3-0086 | DRIVE SHAFT - ELEVATOR | 1 |
| 9 | 700-3-0230 | ROLLER DROP STRAP | 8 |
| 10 | 700-3-0894 | MOUNT PLATE - HYD MOTOR | 1 |
| 11 | 700-3-1220 | RUBBER FLAP - BOOM | 1 |
| 12 | 700-3-1860 | DEFLECTOR BAR - BOOM | 1 |
| 13 | 700-3-2973 | BRACKET - RUBBER WHEEL MOUNT LH | 1 |
| 14 | 700-3-2975 | BRACKET - RUBBER WHEEL MOUNT RH | 1 |
| 15 | 700-3-2993 | EXTENSION PAD | 2 |
| 16 | 900-01225 | BOLT HH 1/2-13 NC X 1-1/2 GRD 5 | 4 |
| 17 | 900-01229 | BOLT HH 1/2-13 NC X 2 GRD 5 | 2 |
| 18 | 900-01353 | 5/8 NC X 3 HEX BOLT GRADE 5 | 1 |
| 19 | 900-01357 | SCREW, CAP 5/8 X 3-1/2 UNC | 27 |
| 20 | 900-01425 | HEX BOLT - 3/4NC X 5-1/2 GR5 ZP | 2 |
| 21 | 900-01751 | BOLT, CRG, 1/2-13 X 1-1/2, GR5 ZP | 41 |
| 22 | 900-01752 | CARRIAGE BOLT 1/2 NC X 1 3/4 GD 5 ZP | 4 |
| 23 | 900-03468 | 3/8 X 1-1/4 PLOW BOLT | 7 |
| 24 | 900-06009 | NUT HEX 1/2-13 NC | 10 |
| 25 | 900-06013 | NUT HEX 5/8-11 NC ZP | 27 |
| 26 | 900-06015 | NUT HEX 3/4-10 NC ZP | 2 |
| 27 | 900-06139 | NUT WHIZ 3/8-16 NC | 7 |
| 28 | 900-06143 | NUT WHIZ 1/2-13 NC GRD 5 ZP | 45 |
| 29 | 900-11013 | WASHER LOCK 1/2 | 8 |
| 30 | 900-11015 | WASHER LOCK 5/8 ZP | 27 |
| 31 | 900-11017 | WASHER LOCK 3/4 ZP | 2 |
| 32 | 900-11035 | WASHER FLAT 1/2 | 4 |
| 33 | 901-01272 | BRG 1.75 PILLOW BLOCK (ECCENTRIC LOCK COLLAR) | 2 |
| 34 | 903-03183 | BOOM DRIVE CHAIN (62") | 1 |
| 35 | 903-08424 | SPACER ROLLER STANDOFF | 26 |
| 36 | 903-08433 | 5" RUBBER ROLLER | 26 |
| 37 | 903-08435 | NOSE ROLLER, 6" | 2 |
| 38 | 903-08471 | BUSHING TAPER LOCK 2517 - 1.75 B | 1 |
| 39 | 903-08474 | BUSHING TAPER LOCK 1615 - 1.25 B | 1 |
| 40 | 903-11068 | SPROCKET - 10T 50MM PITCH 1.75 BORE | 2 |
| 41 | 903-11107 | SPROCKET - #80BTL15 (1615) | 1 |
| 42 | 903-11110 | #80BTL40H SPROCKET FOR 24517 HUB | 1 |
| 43 | 904-05248 | HYD MOTOR - OMS200 | 1 |
| 44 | 700-3-3548 | PLATE, BOOM SPROCKET | 2 |
| 45 | 700-2-1386 | GUARD-BOOM SPROCKET WELDMENT | 1 |
| 46 | 700-2-1387 | BOOM ROD ASSEMBLY | 1 |
| 47 | 903-03190 | BELTED CHAIN BOOM 288" | 1 |
| | 700-2-1064 | OUTER BOOM ASSY - 12 ROW | |

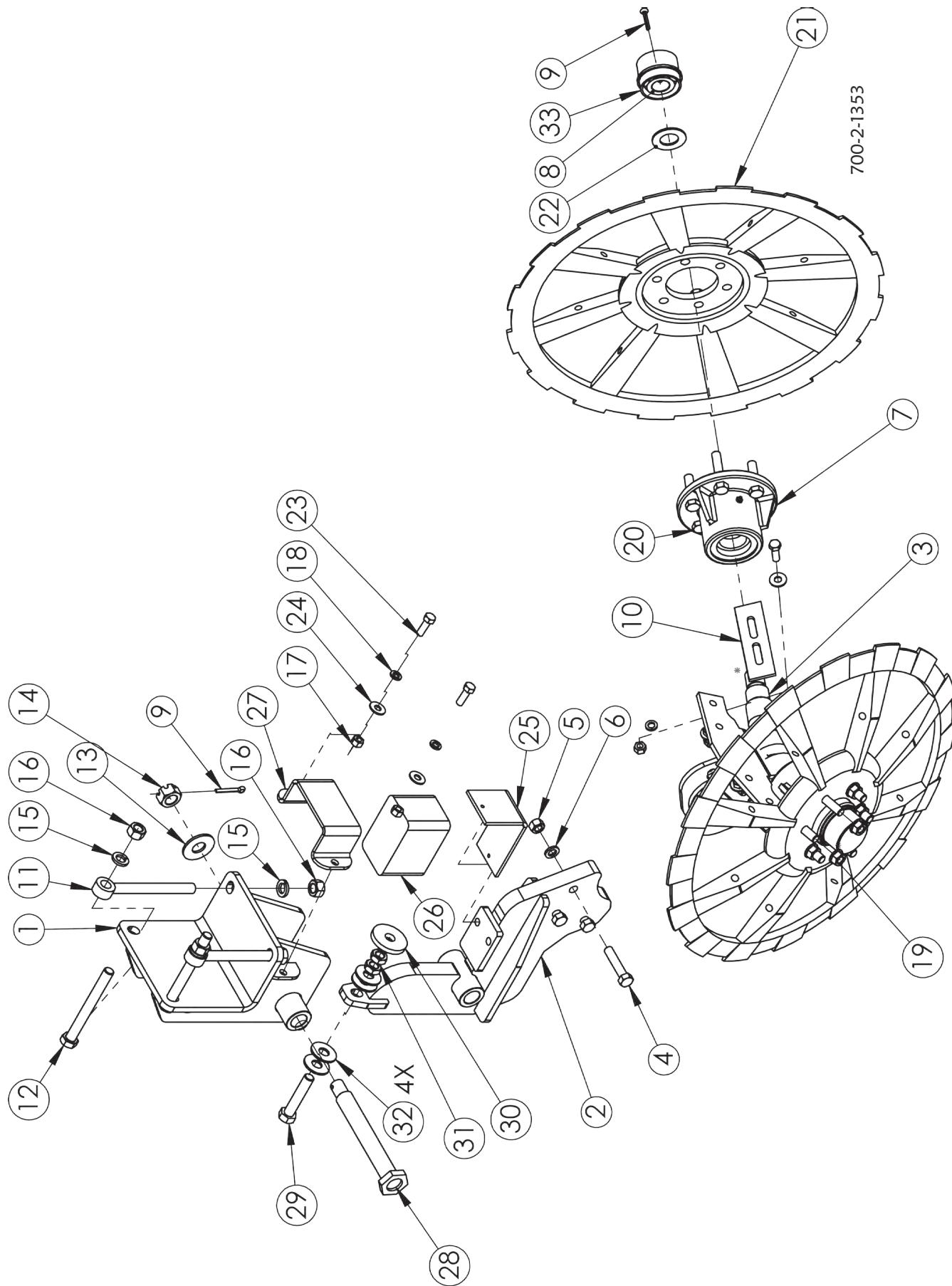
CUSHIONED DIGGER STRUT COMPONENTS



CUSHIONED DIGGER STRUT COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---------------------------------|------|
| 1 | 700-2-1040 | SPINDLE WELD | 1 |
| 2 | 700-2-1136 | DIGGER STRUT SHANK | 1 |
| 3 | 700-2-1147 | PIVOT MOUNT | 1 |
| 4 | 700-2-1041 | ADJUSTABLE DIGGER PIVOT | 1 |
| 5 | 700-3-0303 | LIFTER WHEEL | 2 |
| 6 | 700-2-0410 | DIGGER STRUT HUB | 1 |
| 7 | 905-09129 | DUST CAP | 2 |
| 8 | 700-3-2976 | CUSHION STRUT DROP PLATE | 1 |
| 9 | 905-14009 | SPACER | 2 |
| 10 | 700-3-2868 | SCRAPER BLADE | 2 |
| 11 | 900-23064 | COTTER PIN, 1/2 x 2 | 2 |
| 12 | 900-01225 | BOLT, 1/2 NC x 1-1/2 | 4 |
| 13 | 900-01353 | BOLT, 5/8 NC x 3 | 7 |
| 14 | 900-01431 | BOLT, 3/4 NC x 7 | 2 |
| 15 | 900-03462 | EYE BOLT, 3/4 NC x 8 | 2 |
| 16 | 900-01361 | BOLT 5/8 NC x 4 | 2 |
| 17 | 900-01403 | BOLT, 3/4 NC x 2 | 1 |
| 18 | 900-01347 | BOLT, 5/8 NC x 2-1/2 | 8 |
| 19 | 700-3-0445 | WASHER, 1-7/8 | 4 |
| 20 | 900-11040 | WASHER, 1 | 1 |
| 21 | 900-11035 | WASHER, 1/2 | 4 |
| 22 | 120-3-0003 | WASHER - 1.41 OD X 2.5 OD X .25 | 2 |
| 23 | 900-11017 | LOCK WASHER, 3/4 | 4 |
| 24 | 900-11015 | LOCK WASHER, 5/8 | 3 |
| 25 | 900-11013 | LOCK WASHER, 1/2 | 4 |
| 26 | 900-06510 | TOP LOCK NUT, 3/4 NC | 1 |
| 27 | 900-06015 | NUT, 3/4 NC | 4 |
| 28 | 900-06508 | TOP LOCK NUT, 5/8 NC | 2 |
| 29 | 900-06061 | SLOTTED NUT, 1 NC | 1 |
| 30 | 900-06013 | NUT, 5/8 NC | 3 |
| 31 | 900-06009 | NUT, 1/2 NC | 4 |
| 32 | 900-06145 | SPIRALOCK NUT, 5/8 NC | 12 |
| 33 | 900-06068 | SLOTTED NUT, 1-3/8 NF | 1 |
| - | 700-2-1134 | CUSHION DIGGER STRUT ASSY-WIDE | |

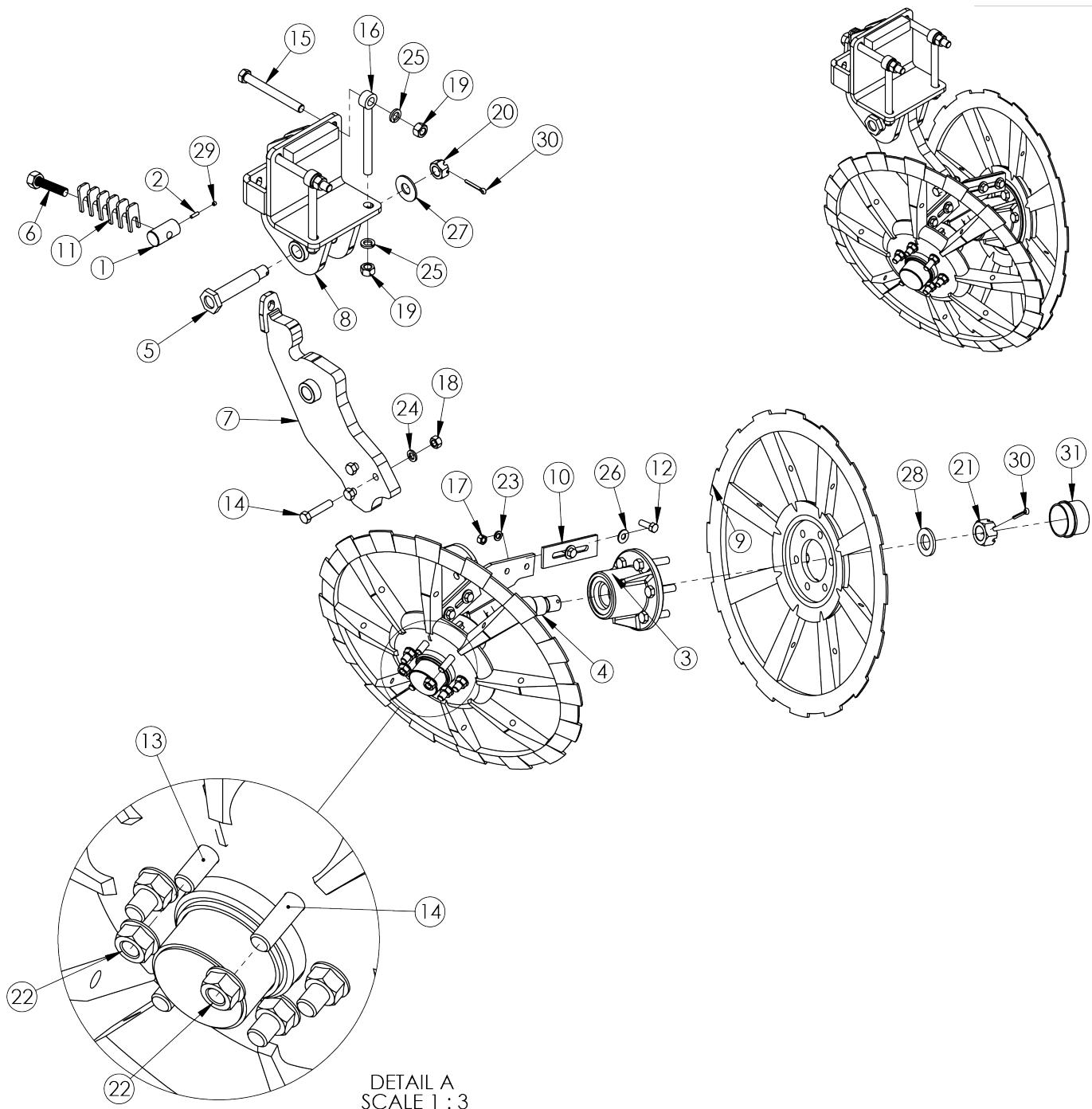
CUSHIONED DIGGER STRUT COMPONENTS (2016)



CUSHIONED DIGGER STRUT COMPONENTS (2016)

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|---------------|--|------|
| 1 | 700-2-1323 | UPPER DIGGER WHEEL MOUNT WELD (2016) | 1 |
| 2 | 700-2-1324 | LOWER DIGGER WHEEL MOUNT WELD (2016) | 1 |
| 3 | 700-2-1040 | SPINDLE WELD - 2014 | 1 |
| 4 | 900-01353 | 5/8 NC X 3 HEX BOLT GRADE 5 | 7 |
| 5 | 900-06013 | NUT HEX 5/8-11 NC ZP | 3 |
| 6 | 900-11015 | WASHER LOCK 5/8 ZP | 3 |
| 7 | 700-2-0410 | HUB ASSY - DIGGER STRUT | 2 |
| 8 | 900-06068 | 1-3/8 - 12 SLOTTED HEX NUT | 2 |
| 9 | 900-23064 | COTTER PIN - 1/4 X 2 | 3 |
| 10 | 700-3-2868 | SCRAPER BLADE - DIGGER STRUTS (WIDE) | 2 |
| 11 | 900-03462 | EYE BOLT 3/4 X 8 | 2 |
| 12 | 900-01431 | HEX BOLT - 3/4 NC X 7 GR5 | 2 |
| 13 | 900-11040 | WASHER FLAT 1 | 1 |
| 14 | 900-06061 | NUT HEX 1-8 NC SLOTTED | 1 |
| 15 | 900-11017 | WASHER LOCK 3/4 ZP | 4 |
| 16 | 900-06015 | NUT HEX 3/4-10 NC ZP | 4 |
| 17 | 900-06009 | NUT HEX 1/2-13 NC | 6 |
| 18 | 900-11013 | WASHER LOCK 1/2 | 6 |
| 19 | 900-06145 | NUT WHIZ 5/8-11 NC | 12 |
| 20 | 900-01347 | BOLT HH 5/8-11 NC X 2-1/2 | 8 |
| 21 | 700-3-0303 | LIFTER WHEEL - MACHINING DRAWING | 2 |
| 22 | 900-11143 | WASHER, FLAT 1-1/4" ZP (SAE) | 2 |
| 23 | 900-01225 | BOLT HH 1/2-13 NC X 1-1/2 GRD 5 | 6 |
| 24 | 900-11035 | WASHER FLAT 1/2 | 6 |
| 25 | 700-3-3514 | STRUT ANGLE- RUBBER | 1 |
| 26 | 700-3-1397 | ROCK CUSHION | 1 |
| 27 | 700-3-3467 | CUSHION STOP FRONT BRACKET | 1 |
| 28 | 700-2-0537 | DIGGER STRUT LIFT PIN | 1 |
| 29 | 900-01417Rev2 | 3/4-10 X 3.75 HEX BOLT | 1 |
| 30 | 700-2-1354 | NUT/WASHER WELD - DIGGER WHEEL | 1 |
| 31 | 900-06282 | NUT HEX JAM 3/4 NC | 2 |
| 32 | 900-11038 | WASHER FLAT 3/4 | 4 |
| 33 | 700-2-1406 | DIGGER WHEEL GREASE CAP WELD | 2 |
| - | 700-2-1353 | DIGGER WHEEL CUSHION STRUT ASSY (2016) | |

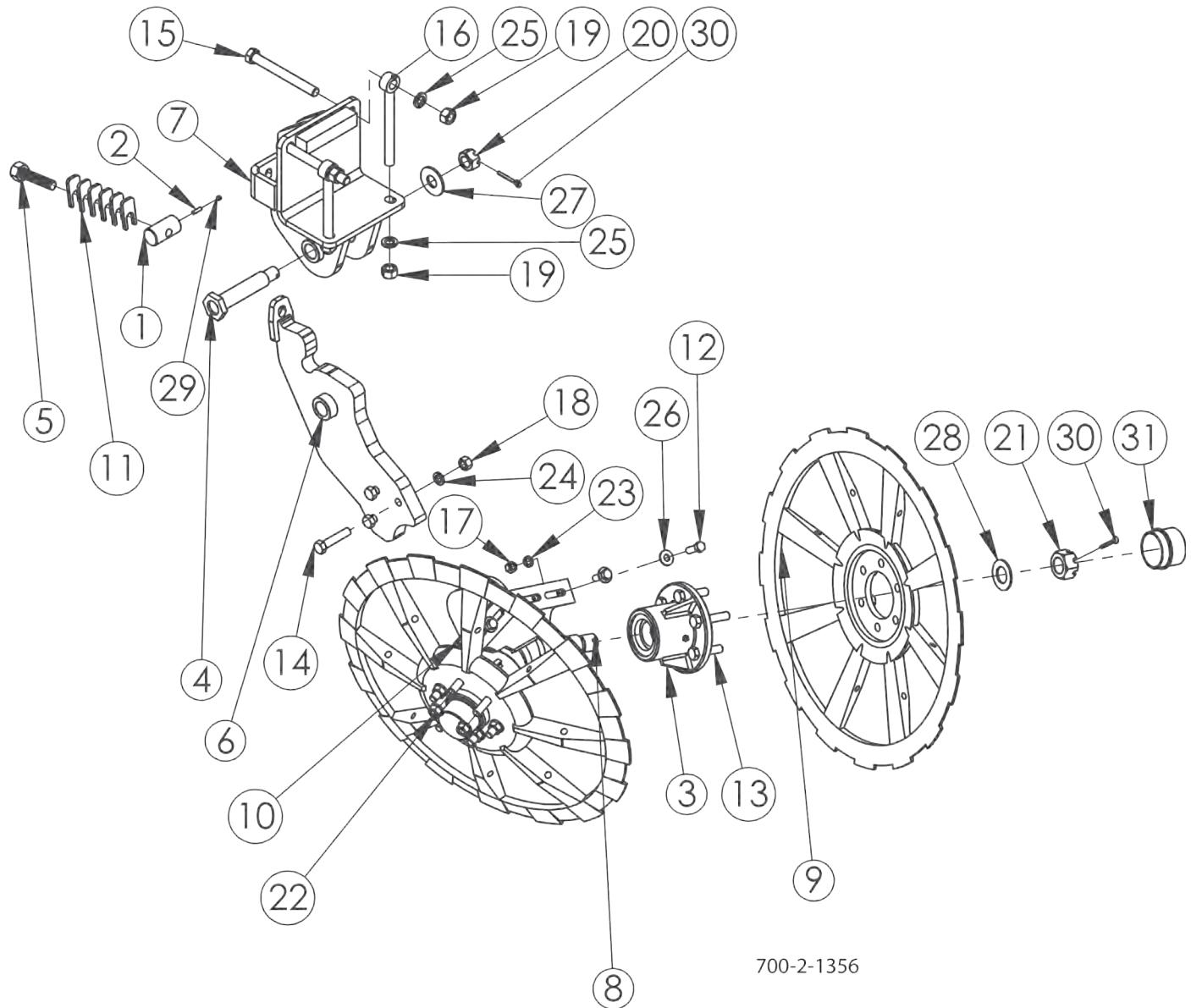
ADJUSTABLE DIGGER STRUT COMPONENTS



ADJUSTABLE DIGGER STRUT COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 1 | 200-3-3201 | TRUNION, THREADED | 1 |
| 2 | 200-3-3437 | 1/4" ROUND 2-3/8" UHMW | 1 |
| 3 | 700-2-0410 | HUB ASSY - DIGGER STRUT | 2 |
| 4 | 700-2-1040 | SPINDLE WELD - WIDE | 1 |
| 5 | 700-2-1041 | ADJUSTABLE DIGGER STRUT PIVOT PIN WELD | 1 |
| 6 | 700-2-1111 | ACME ROD WELD | 1 |
| 7 | 700-2-1136 | CUSHION DIGGER STRUT SHANK WELD | 1 |
| 8 | 700-2-1147 | PIVOT MOUNT WELD - ADJUSTABLE CUSHION STRUT | 1 |
| 9 | 700-3-0303 | LIFTER WHEEL - MACHINING DRAWING | 2 |
| 10 | 700-3-2868 | SCRAPER BLADE - DIGGER STRUTS (WIDE) | 2 |
| 11 | 700-3-2916 | SHIM - DIGGER WHEEL | 6 |
| 12 | 900-01225 | BOLT HEX 1/2 X 1 1/2 GR 5 | 4 |
| 13 | 900-01347 | 5/8" X 2-1/2 NC HEX BOLT | 8 |
| 14 | 900-01353 | 5/8 NC X 3 HEX BOLT GRADE 5 | 7 |
| 15 | 900-01431 | HEX BOLT - 3/4 NC X 7 GR5 | 2 |
| 16 | 900-03462 | EYE BOLT 3/4 X 8 | 2 |
| 17 | 900-06009 | NUT HEX 1/2 UNC | 4 |
| 18 | 900-06013 | NUT, HH, 5/8-11, ZP | 3 |
| 19 | 900-06015 | NUT, HH, 3/4-10, ZP | 4 |
| 20 | 900-06061 | 1-8 HEX SLOTTED NUT | 1 |
| 21 | 900-06068 | 1-3/8 - 12 SLOTTED HEX NUT | 2 |
| 22 | 900-06145 | 5/8 WHIZ NUT | 12 |
| 23 | 900-11013 | WASHER, LOCK 1/2 | 4 |
| 24 | 900-11015 | WASHER, LOCK, 5/8, ZP | 3 |
| 25 | 900-11017 | WASHER, LOCK, 3/4, ZP | 4 |
| 26 | 900-11035 | 1/2 FLAT WASHER | 4 |
| 27 | 900-11040 | WASHER, FLAT, 1 | 1 |
| 28 | 120-3-0003 | WASHER - 1.41 OD X 2.5 OD X .25 | 2 |
| 29 | 900-16237 | SOCKET HEAD SET SCREW, 5/16 x 5/16 | 1 |
| 30 | 900-23064 | COTTER PIN - 1/4 X 2 | 3 |
| 31 | 700-2-1406 | DIGGER WHEEL GREASE CAP WELD | 2 |
| | 700-2-1151 | ADJUSTABLE DIGGER STRUT ASSY-WIDE | |

ADJUSTABLE DIGGER STRUT ASSEMBLY - NARROW

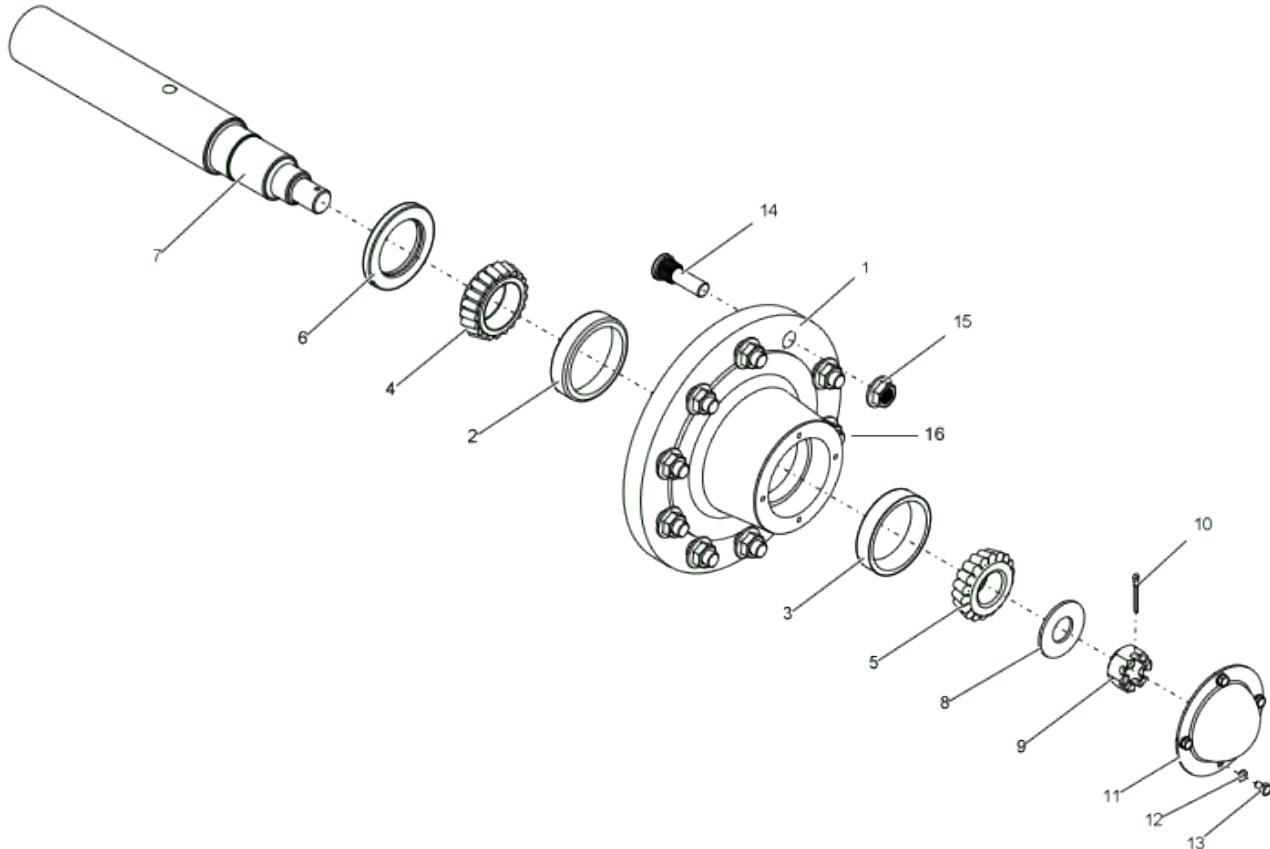


700-2-1356

ADJUSTABLE DIGGER STRUT ASSEMBLY - NARROW

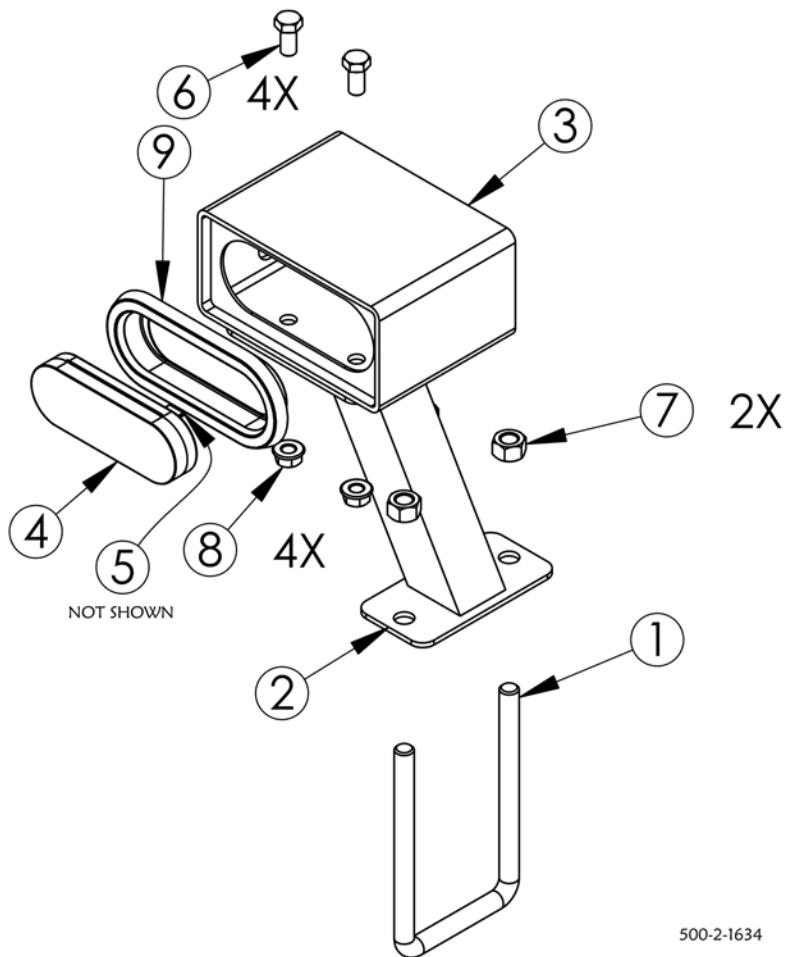
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 1 | 200-3-3201 | TRUNION, THREADED | 1 |
| 2 | 200-3-3437 | 1/4" ROUND 2-3/8" UHMW | 1 |
| 3 | 700-2-0410 | HUB ASSY - DIGGER STRUT | 2 |
| 4 | 700-2-1041 | ADJUSTABLE DIGGER STRUT PIVOT PIN WELD | 1 |
| 5 | 700-2-1111 | ACME ROD WELD | 1 |
| 6 | 700-2-1136 | CUSHION DIGGER STRUT SHANK WELD | 1 |
| 7 | 700-2-1147 | PIVOT MOUNT WELD - ADJUSTABLE CUSHION STRUT | 1 |
| 8 | 700-2-1359 | SPINDLE WELD - NARROW (1.25" PLATE) 2016 | 1 |
| 9 | 700-3-0303 | LIFTER WHEEL - MACHINING DRAWING | 2 |
| 10 | 700-3-1056 | SCRAPER BLADE - DIGGER STRUTS | 2 |
| 11 | 700-3-2916 | SHIM - DIGGER WHEEL | 6 |
| 12 | 900-01225 | BOLT HEX 1/2 X 1 1/2 GR 5 | 4 |
| 13 | 900-01347 | 5/8" X 2-1/2 NC HEX BOLT | 8 |
| 14 | 900-01353 | 5/8 NC X 3 HEX BOLT GRADE 5 | 7 |
| 15 | 900-01431 | HEX BOLT - 3/4 NC X 7 GR5 | 2 |
| 16 | 900-03462 | EYE BOLT 3/4 X 8 | 2 |
| 17 | 900-06009 | NUT HEX 1/2 UNC | 4 |
| 18 | 900-06013 | NUT, HH, 5/8-11, ZP | 3 |
| 19 | 900-06015 | NUT, HH, 3/4-10, ZP | 4 |
| 20 | 900-06061 | 1-8 HEX SLOTTED NUT | 1 |
| 21 | 900-06068 | 1-3/8 - 12 SLOTTED HEX NUT | 2 |
| 22 | 900-06145 | 5/8 WHIZ NUT | 12 |
| 23 | 900-11013 | WASHER, LOCK 1/2 | 4 |
| 24 | 900-11015 | WASHER, LOCK, 5/8, ZP | 3 |
| 25 | 900-11017 | WASHER, LOCK, 3/4, ZP | 4 |
| 26 | 900-11035 | 1/2 FLAT WASHER | 4 |
| 27 | 900-11040 | WASHER, FLAT, 1 | 1 |
| 28 | 900-11143 | WASHER, FLAT 1-1/4" ZP (SAE) | 2 |
| 29 | 900-16237 | SOCKET HEAD SET SCREW, 5/16 x 5/16 | 1 |
| 30 | 900-23064 | COTTER PIN - 1/4 X 2 | 3 |
| 31 | 700-2-1406 | DIGGER WHEEL GREASE CAP WELD | 2 |
| | 700-2-1356 | ADJUSTABLE DIGGER STRUT ASSY-NARROW | |

WHEEL HUB COMPONENTS



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---------------------------------------|------|
| 1 | 905-09187 | HUB - 10 BOLT x 11.25 BC x 8.69 PILOT | 1 |
| 2 | 901-01413 | BEARING CUP #39520 | 1 |
| 3 | 901-01414 | BEARING CUP #453A | 1 |
| 4 | 901-01411 | BEARING CONE #39585 | 1 |
| 5 | 901-01412 | BEARING CONE #460 | 1 |
| 6 | 901-09240 | GREASE SEAL #415088 | 1 |
| 7 | 700-3-1259 | SPINDLE | 1 |
| 8 | 900-11042 | FLAT WASHER, 1-1/4" | 1 |
| 9 | 900-06066 | SLOTTED NUT, 1-1/4" NF | 1 |
| 10 | 900-23045 | COTTER PIN, 3/16" x 2" | 1 |
| 11 | 700-3-2921 | DUST CAP | 1 |
| 12 | 900-11010 | LOCK WASHER, 5/16" | 4 |
| 13 | 900-02342 | BOLT, 5/16" NC x 1/2" | 4 |
| 14 | 905-09188 | WHEEL STUD, 3/4" NF | 10 |
| 15 | 905-09185 | WHEEL NUT, 3/4" NF | 10 |
| 16 | 905-15024 | ZERK 1/4-28 UNF STRAIGHT | 1 |
| - | 905-09160 | HUB W/ CUPS & STUDS | - |
| - | 700-2-1021 | HUB W/ CUPS, BEARINGS, STUDS, & SEAL | - |
| - | 700-2-0553 | HUB & SPINDLE (COMPLETE KIT) | - |

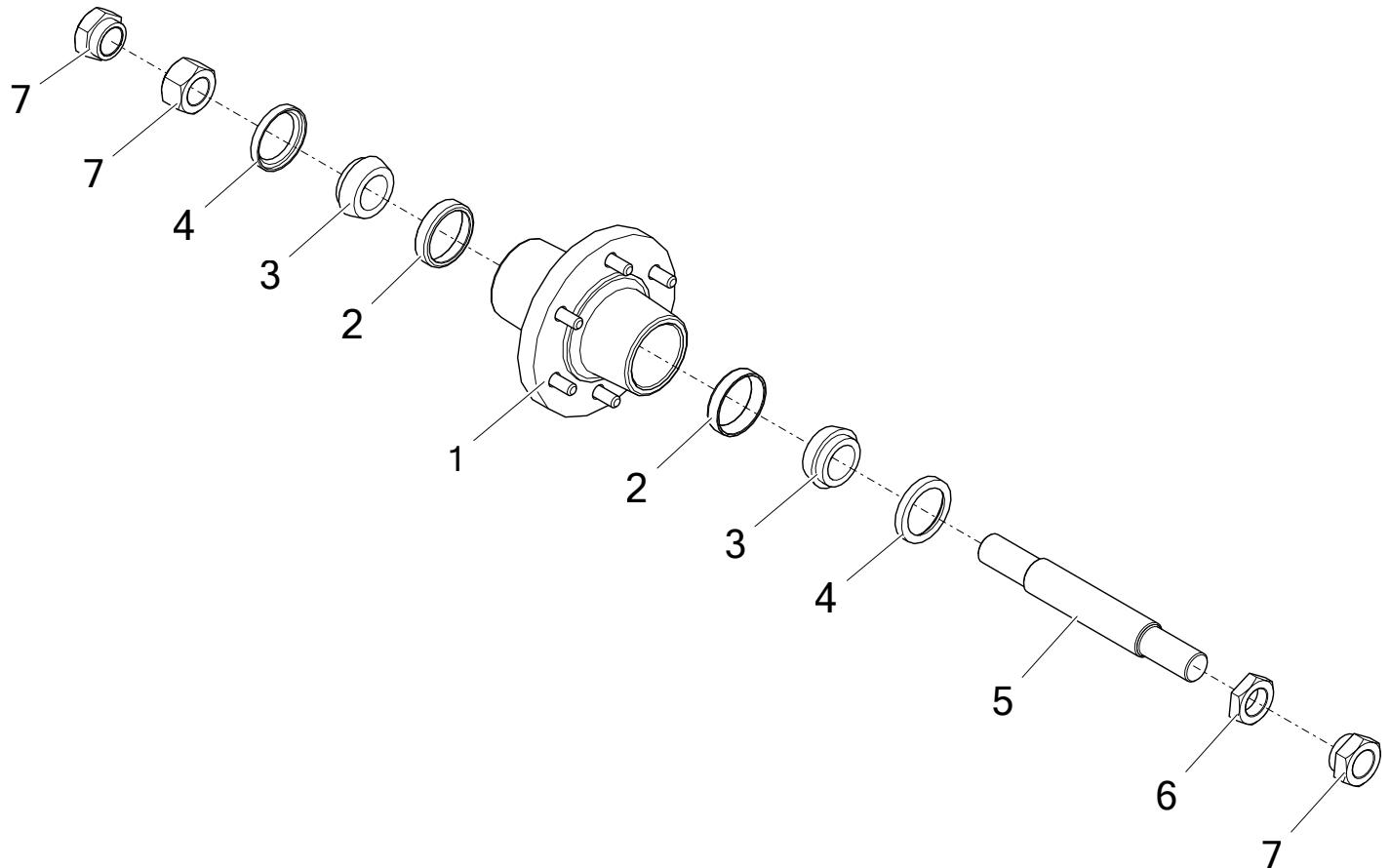
LIGHT KIT COMPONENTS



500-2-1634

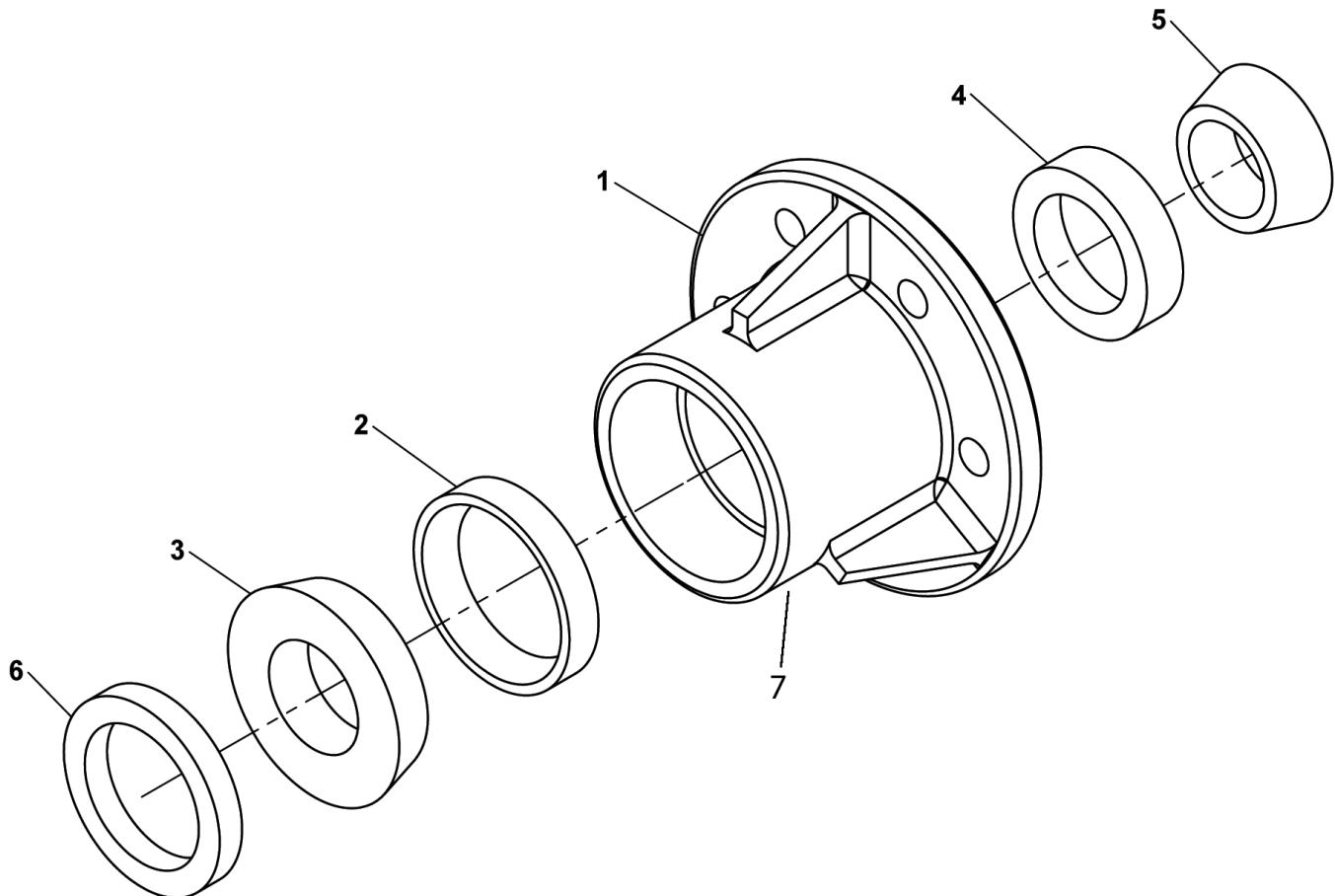
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|------------|-------------|--|------|
| 1 | 200-3-0017 | U-BOLT 5/8 X 4 X 7.5 X 1.5 | 1 |
| 2 | 500-2-1535 | S SERIES LIGHT FIXTURE BASE WELDMENT | 1 |
| 3 | 500-2-1632 | S-SERIES LIGHT CASE WELD | 1 |
| 4 | 904-01341 | RED LIGHT | 1 |
| 5 | 507-2-0564 | 3-PIN TO 2-PIN WEATHER PACK PIGTAIL-YELLOW LIGHT | 2 |
| 6 | 900-01221 | BOLT HEX 1/2" X 1" | 4 |
| 7 | 900-06013 | NUT, HH, 5/8-11, ZP | 2 |
| 8 | 900-06143 | 1/2 NC SPIRALOCK NUT ZP GR5 | 4 |
| 9 | 904-01343 | RUBBER GROMMET | 1 |
| 500-2-1634 | | S SERIES LIGHT FIXTURE ASSEMBLY-RED | |

STABILIZER WHEEL HUB COMPONENTS



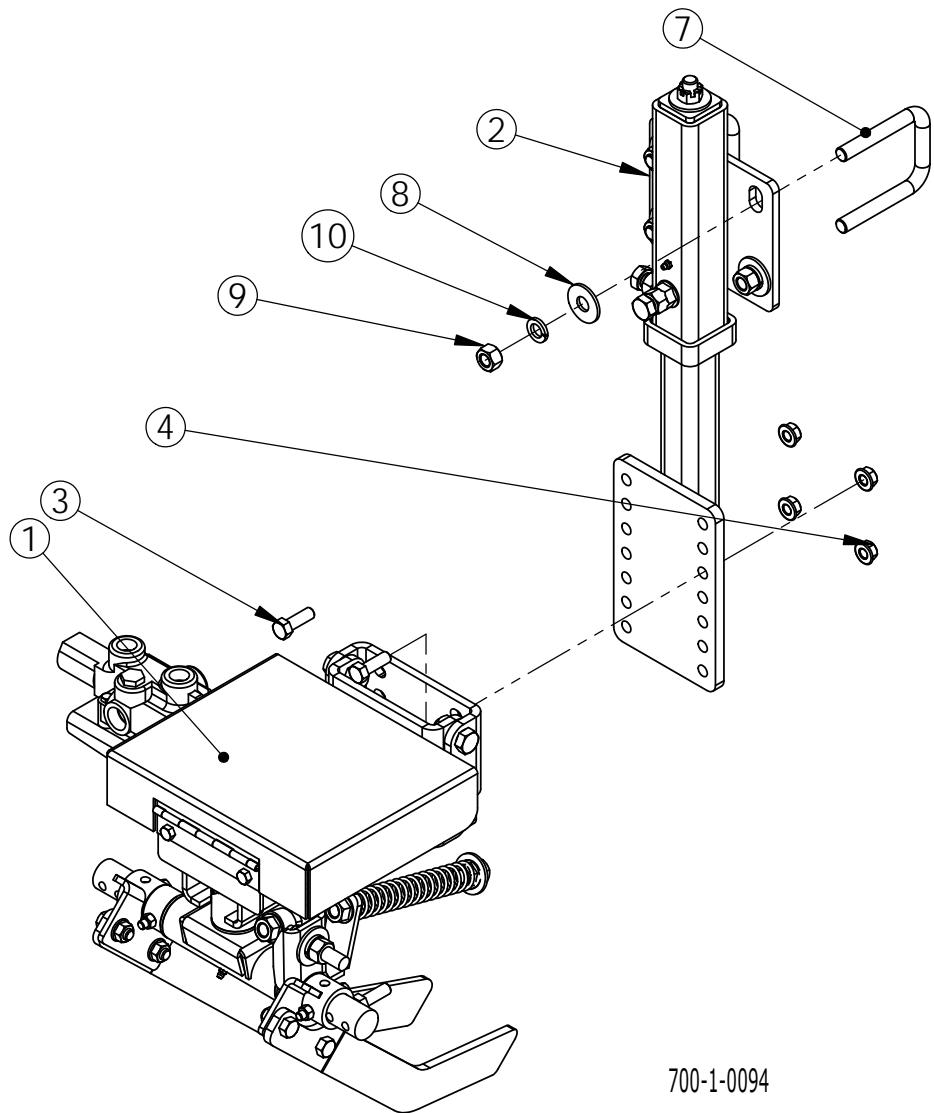
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|------------------------------|------|
| 1 | 905-09082 | HUB W/ CUPS | 1 |
| 2 | 901-01148 | BEARING CUP | 2 |
| 3 | 901-01149 | BEARING CONE | 2 |
| 4 | 901-09127 | SEAL | 2 |
| 5 | 200-3-1240 | FORK SPINDLE | 1 |
| 6 | 200-3-2726 | SHORT NUT, 1-1/4 NC | 1 |
| 7 | 900-06024 | NUT, 1-1/4 NC | 3 |
| - | 200-2-0928 | HUB & SPINDLE (COMPLETE KIT) | - |

DIGGER STRUT HUB COMPONENTS



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|-------------------------|------|
| 1 | 700-3-0275 | HUB - MACHINED (DIGGER) | 1 |
| 2 | 901-01319 | BEARING CUP #362A | 1 |
| 3 | 901-01320 | BEARING CONE #368A | 1 |
| 4 | 901-01321 | BEARING CUP #26823 | 1 |
| 5 | 901-01322 | BEARING CONE #26884 | 1 |
| 6 | 901-09214 | SEAL - NATIONAL #415302 | 1 |
| 7 | 905-15001 | 1/8 PTF STR GRS FTNG | 1 |
| - | 700-2-0410 | HUB ASSY - DIGGER STRUT | |

ROWFINDER ASSEMBLY

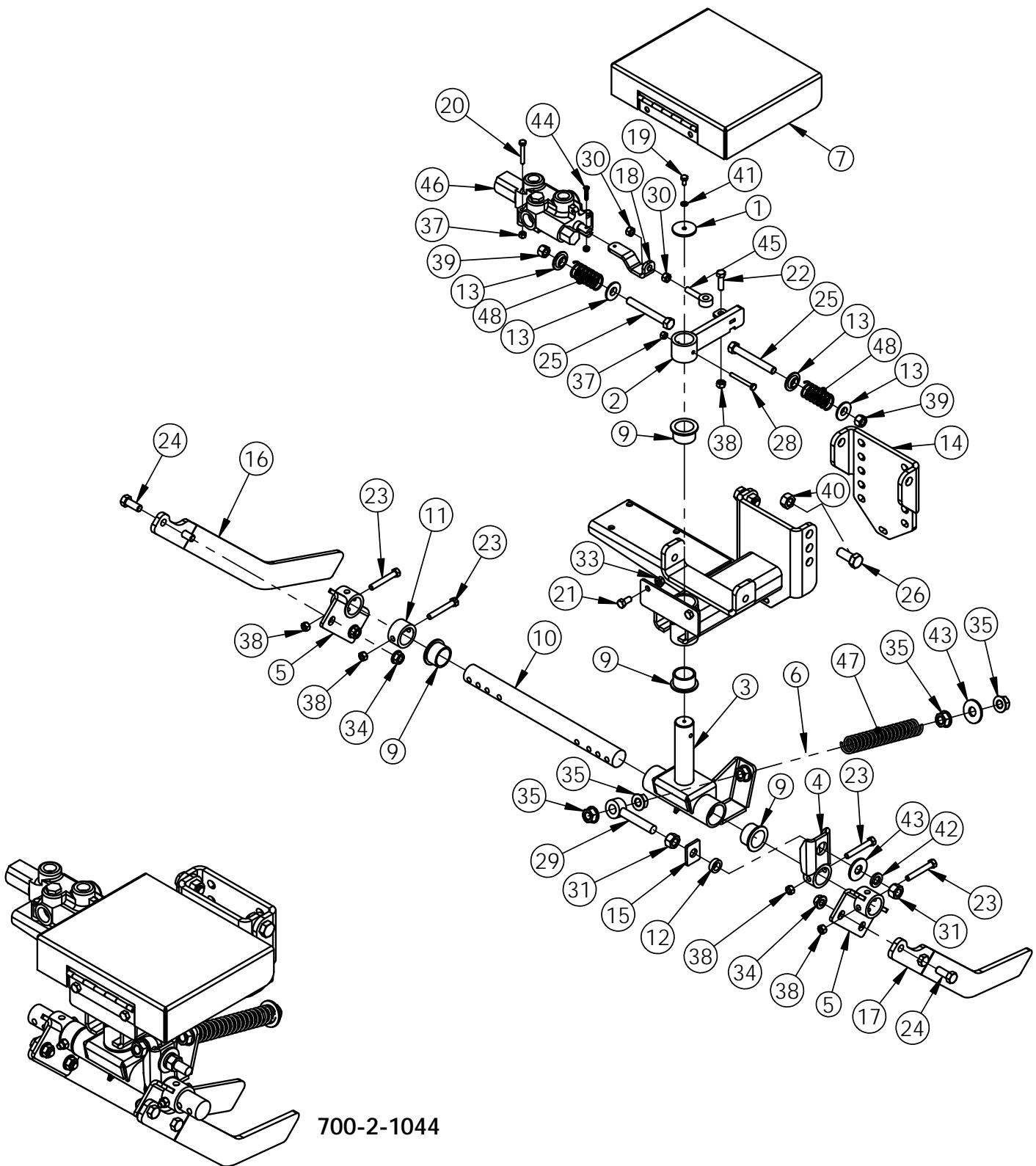


700-1-0094

ROWFINDER ASSEMBLY

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 1 | 700-2-1044 | ROWFINDER ASSEMBLY | 1 |
| 2 | 700-2-1037 | ADJUSTABLE MOUTING ASSEBLY | 1 |
| 3 | 900-01225 | BOLT HH 1/2-13 NC X 1-1/2 GRD 5 | 4 |
| 4 | 900-06143 | NUT WHIZ 1/2-13 NC GRD 5 ZP | 4 |
| 5 | 905-21441 | CYLINDER, 3-1/2 X 8 (A350080ABAAA07B) | 1 |
| 6 | 700-1-0023 | ROWFINDER - HYDRAULIC COMPONENTS | 1 |
| 7 | 900-35026 | U-BOLT 5/8NC x 3 INSIDE x 4-1/2 LONG x 1-1/2 THDS | 2 |
| 8 | 900-11037 | WASHER FLAT 5/8 | 4 |
| 9 | 900-06013 | NUT HEX 5/8-11 NC ZP | 4 |
| 10 | 900-11015 | WASHER LOCK 5/8 ZP | 4 |
| | 700-1-0094 | HYD ROW FINDER (w/CYL & HOSES) | |

ROWFINDER COMPONENTS

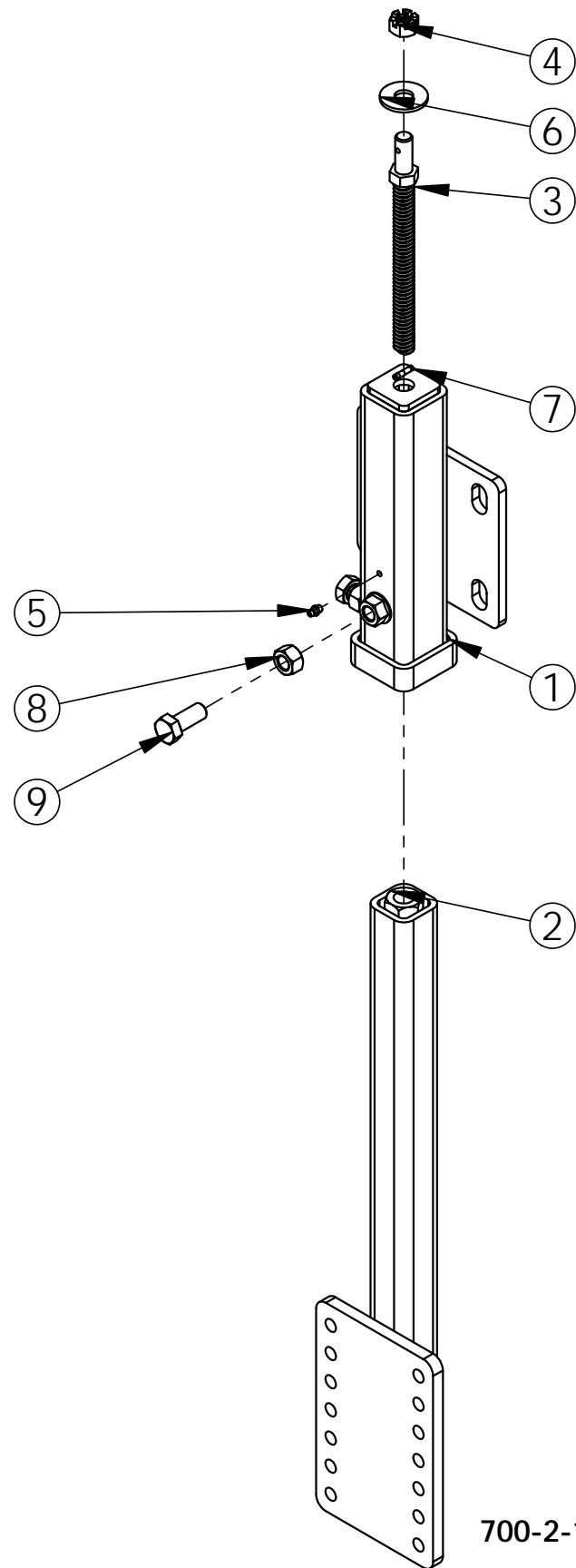


700-2-1044

ROWFINDER COMPONENTS

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|
| 1 | 500-3-2705 | PLATE - DROP PLATE | 1 |
| 2 | 700-2-0850 | STEERING PADDLE WELD | 1 |
| 3 | 700-2-0851 | PIVOT WELD | 1 |
| 4 | 700-2-0853 | SPRING TENSIONER WELD | 1 |
| 5 | 700-2-0854 | FINGER MOUNT WELD | 2 |
| 6 | 700-2-0856 | THREADED ROD - ROW FINDER | 1 |
| 7 | 700-2-0862 | TOP COVER - ROW FINDER (WIDE) | 1 |
| 8 | 700-2-1043 | PIVOT MOUNT WELD | 1 |
| 9 | 700-3-0383 | OILITE BUSHING - FF-1618-1 | 4 |
| 10 | 700-3-2170 | SHAFT HORIZONTAL PIVOT | 1 |
| 11 | 700-3-2182 | TUBE-DOWN PRESSURE BAR (PAINTED) | 1 |
| 12 | 700-3-2183 | BUSHING - DOWN PRESSURE SPRING | 1 |
| 13 | 700-3-2185 | COMPRESSION SPRING RETAINER | 4 |
| 14 | 700-3-2186 | INNER PIVOT BRACKET - ROW FINDER | 1 |
| 15 | 700-3-2187 | INSIDE WASHER - EYEBOLT | 1 |
| 16 | 700-3-2188 | FINGER - LH | 1 |
| 17 | 700-3-2189 | FINGER - RH | 1 |
| 18 | 700-3-2663 | ADJUSTMENT PLATE - ROWFINDER (3/16" HOLE) | 1 |
| 19 | 900-01001 | .25 UNC X 1/2 BOLT | 1 |
| 20 | 900-01015 | 1/4 NC X 1-3/4 HEX BOLT | 3 |
| 21 | 900-01105 | BOLT HH 3/8-16 NC X 3/4 | 2 |
| 22 | 900-01111 | BOLT HH 3/8-16 NC X 1-1/4 GRD 5 | 1 |
| 23 | 900-01121 | 3/8-16 NC X 3 HEX BOLT SS | 4 |
| 24 | 900-01223 | BOLT HH 1/2-13 NC X 1-1/4 GRD 5 ZP | 4 |
| 25 | 900-01245 | BOLT HH 1/2-13 NC X 4 GRD 5 ZP | 2 |
| 26 | 900-01341 | BOLT HH 5/8-11 NC X 1-1/2 GRD 5 ZP | 2 |
| 27 | 900-03076 | 3/4-10 X 4.5 FULL THREAD HEX BOLT | 1 |
| 28 | 900-03112 | 1/4-20 X 2 1/4 HEX HEAD GR8ZP | 1 |
| 29 | 900-03465 | EYE BOLT 5/8 X 3 | 1 |
| 30 | 900-06006 | NUT HEX 3/8-24 NF ZP | 2 |
| 31 | 900-06013 | NUT HEX 5/8-11 NC ZP | 2 |
| 32 | 900-06015 | NUT HEX 3/4-10 NC ZP | 1 |
| 33 | 900-06139 | NUT WHIZ 3/8-16 NC | 2 |
| 34 | 900-06143 | NUT WHIZ 1/2-13 NC GRD 5 ZP | 4 |
| 35 | 900-06145 | NUT WHIZ 5/8-11 NC | 4 |
| 36 | 900-06446 | NUT, NYLOCK, #10-24 | 1 |
| 37 | 900-06496 | 1/4-20 TOP LOCK HEX NUT | 4 |
| 38 | 900-06500 | NUT HEX 3/8 TOP LOCK | 5 |
| 39 | 900-06504 | NUT, LOCK, TOP, 1/2-13, GR C ZP | 2 |
| 40 | 900-06508 | NUT HEX 5/8 UNC TOP LOCK | 2 |
| 41 | 900-11009 | 1/4 SPRING LOCK WASHER ZP | 1 |
| 42 | 900-11015 | WASHER LOCK 5/8 ZP | 1 |
| 43 | 900-11037 | WASHER FLAT 5/8 | 2 |
| 44 | 900-19083 | MACHINE SCREW, #10-24 x 1", PAN HEAD PHILIPS | 1 |
| 45 | 903-05044 | EYEBOLT - ROD END | 1 |
| 46 | 905-03258 | PRINCE - 4 WAY VALVE | 1 |
| 47 | 905-14007 | SPRING - 1.245 OD X .148 WIRE X .4029 P X 7.75 LONG | 1 |
| 48 | 905-14022 | SPRING - 1.25 OD X .105 WIRE X 4.00 LONG X 12.5 COILS | 2 |
| 49 | 905-15024 | ZERK 1/4-28 UNF STRAIGHT | 2 |
| | 700-2-1044 | ROWFINDER ASSEMBLY | |

ROWFINDER ADJUSTABLE MOUNT

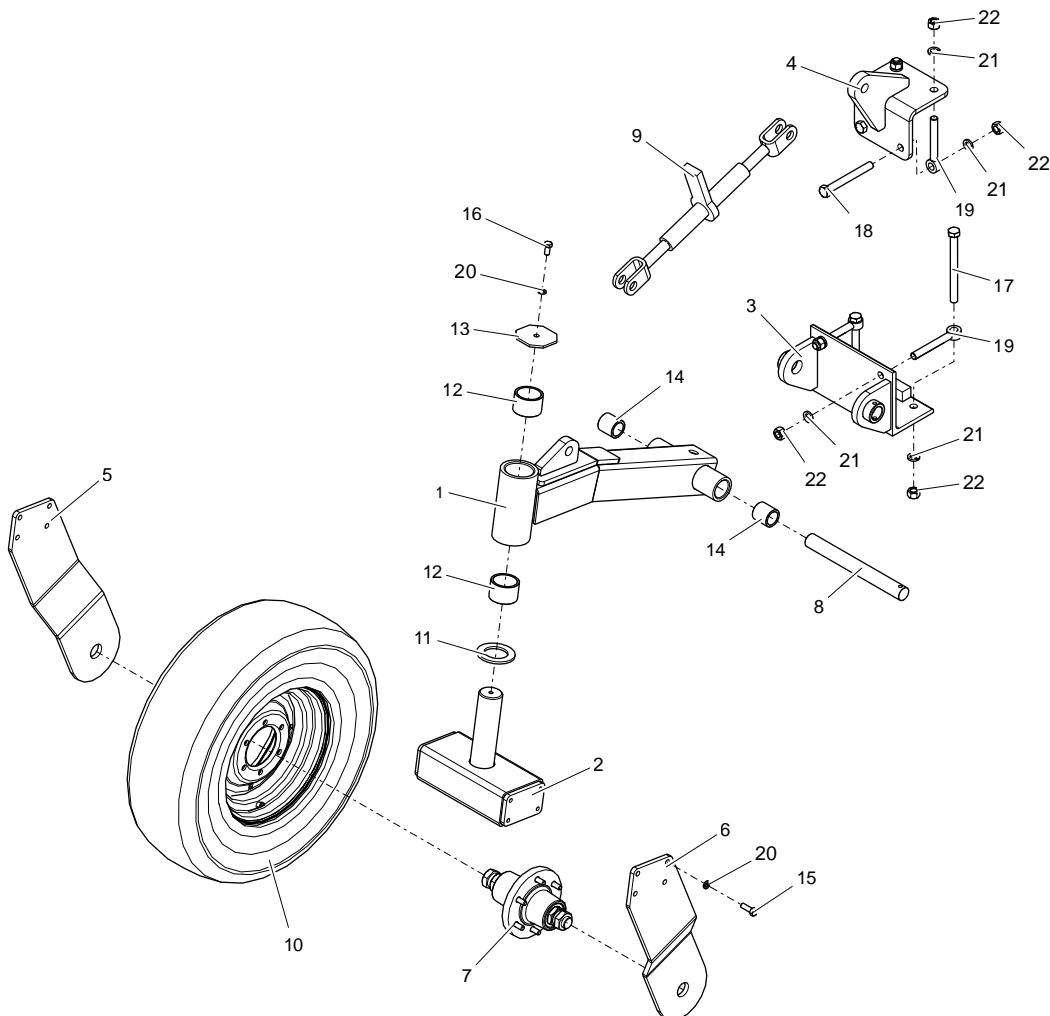


700-2-1037

ROWFINDER ADJUSTABLE MOUNT

| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|------------------------------------|------|
| 1 | 700-2-1035 | POWER SCREW CHAMBER WELD | 1 |
| 2 | 700-2-1036 | ADJUSTABLE ARM WELD | 1 |
| 3 | 200-2-1945 | MAST ADJUSTABLE SCREW WELD - ZP | 1 |
| 4 | 900-06394 | CASTLE NUT 5/8" | 1 |
| 5 | 905-15024 | ZERK 1/4-28 UNF STRAIGHT | 1 |
| 6 | 900-11037 | WASHER FLAT 5/8 | 1 |
| 7 | 900-29470 | PIN 3/16 X 7/8 SHEAR PROOF DL | 1 |
| 8 | 900-06013 | NUT HEX 5/8-11 NC ZP | 2 |
| 9 | 900-01341 | BOLT HH 5/8-11 NC X 1-1/2 GRD 5 ZP | 2 |
| | 700-2-1037 | ADJUSTABLE MOUTING ASSEBLY | |

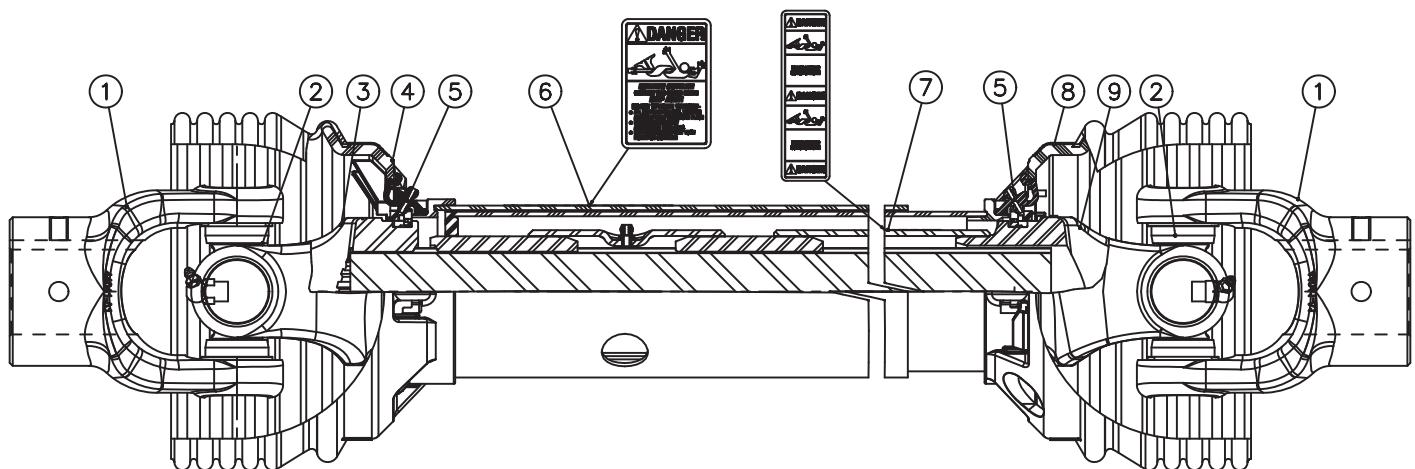
STABILIZER WHEEL COMPONENTS



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|----------------------|------|
| 1 | 500-2-1328 | STABILIZER WHEEL ARM | 1 |
| 2 | 200-2-0689 | CASTER PIVOT | 1 |
| 3 | 700-2-0983 | BOTTOM MOUNT | 1 |
| 4 | 700-2-0984 | UPPER MOUNT | 1 |
| 5 | 200-3-2621 | WHEEL PLATE (LH) | 1 |
| 6 | 200-3-2622 | WHEEL PLATE (RH) | 1 |
| 7 | 200-2-0928 | HUB & SPINDLE ASSY | 1 |
| 8 | 700-3-2600 | PIVOT PIN | 1 |
| 9 | 905-23014 | RATCHET JACK | 1 |
| 10 | 905-09177 | WHEEL TIRE ASSY | 1 |
| 11 | 200-3-1233 | OILITE WASHER | 1 |
| 12 | 200-3-1766 | OILITE BUSHING | 2 |
| 13 | 200-3-1219 | RETAINER PLATE | 1 |
| 14 | 901-01146 | BRONZE BUSHING | 2 |
| 15 | 900-01225 | BOLT, 1/2 NC x 1-1/2 | 8 |
| 16 | 900-01221 | BOLT, 1/2 NC x 1 | 1 |
| 17 | 900-01437 | BOLT, 3/4 NC x 8-1/2 | 2 |
| 18 | 900-01429 | BOLT, 3/4 NC x 6-1/2 | 2 |
| 19 | 900-03463 | EYEBOLT, 3/4 NC x 6 | 4 |
| 20 | 900-11013 | LOCK WASHER, 1/2 | 8 |
| 21 | 900-11017 | LOCK WASHER, 3/4 | 8 |
| 22 | 900-06015 | NUT, 3/4 NC | 8 |

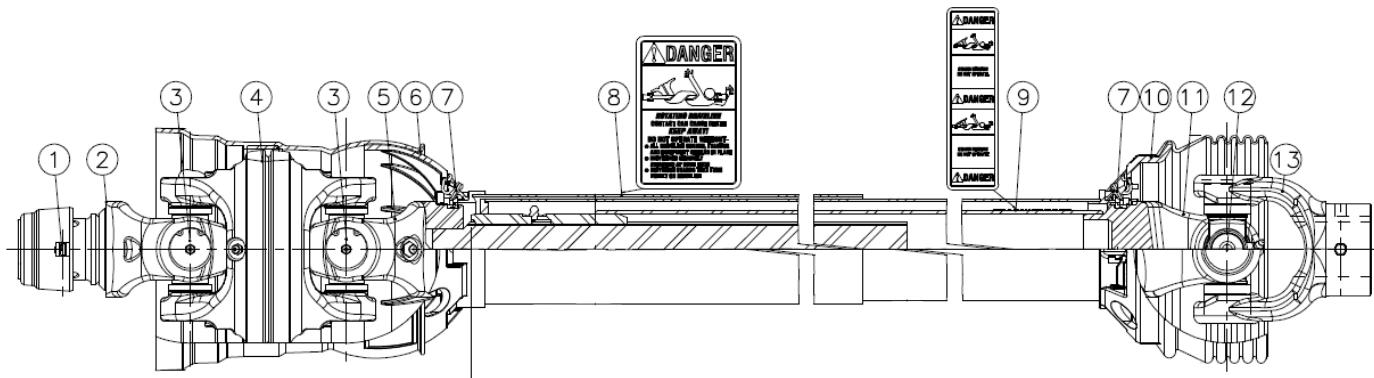
700-2-0981 FRONT STABILIZER WHEEL ASSY - 12 ROW

WING DRIVE SHAFT COMPONENTS (44 Series)



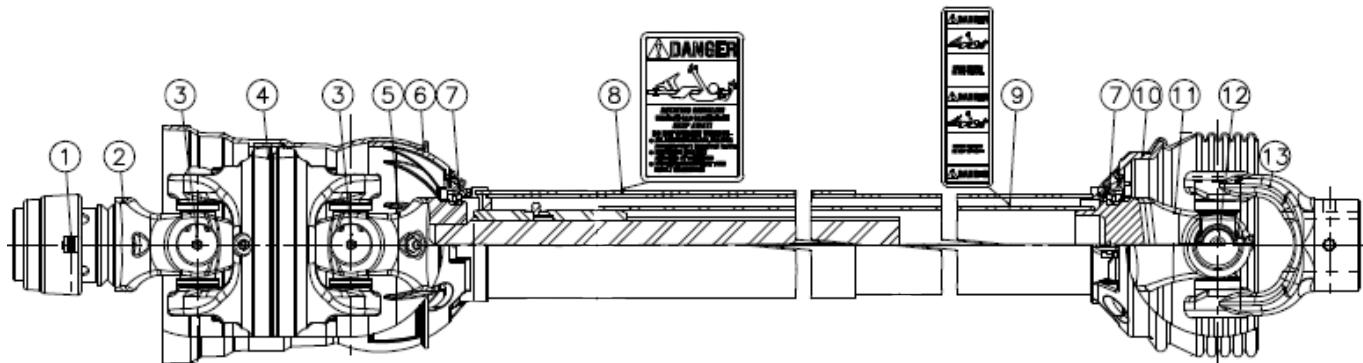
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|-------------------------------|------|
| 1 | 903-18473 | YOKE | 2 |
| 2 | 903-17525 | 44E CROSS KIT | 2 |
| 3 | 903-18469 | YOKE & SHAFT (1.69-20 SPLINE) | 1 |
| 4 | 903-18470 | OUTER GUARD | 1 |
| 5 | 903-18248 | GUARD REPAIR KIT | 2 |
| 6 | 903-17455 | SAFETY SIGN | 1 |
| 7 | 903-17456 | SAFETY SIGN | 1 |
| 8 | 903-18471 | INNER GUARD | 1 |
| 9 | 903-18472 | YOKE, TUBE, & SLIP SLEEVE | 1 |
| - | 903-18425 | WING DRIVE SHAFT, COMPLETE | - |

1-3/8" PTO WWCV DRIVE SHAFT COMPONENTS (55 Series)



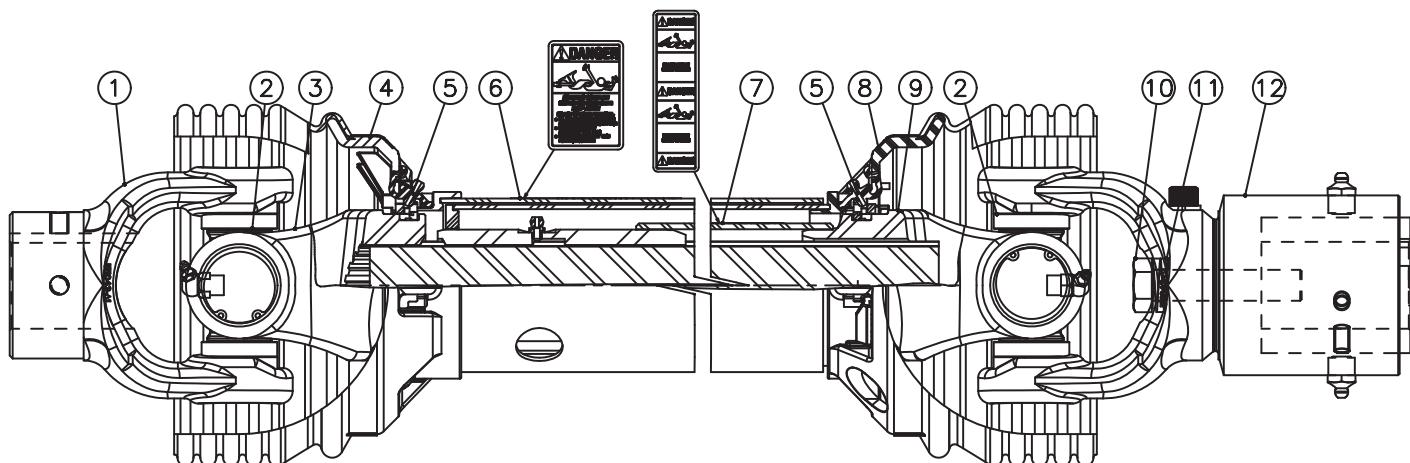
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--|------|
| 1 | 903-18106 | SSL / AUTO-LOK REPAIR KIT | 1 |
| 2 | 903-18334 | WWCV AUTO-LOK YOKE ASSEMBLY | 1 |
| 3 | 903-18328 | AB8/AW24/CAT 6 80° EBL CROSS KIT | 2 |
| 4 | 903-18329 | WWCV CENTER HOUSING | 1 |
| 5 | 903-18415 | WWCV YOKE & SHAFT (1.69-20) | 1 |
| 6 | 903-18248 | GUARD REPAIR KIT | 1 |
| 7 | 903-17455 | SAFETY SIGN | 1 |
| 8 | 903-18361 | OUTER GUARD | 1 |
| 9 | 903-18362 | INNER GUARD | 1 |
| 10 | 903-17456 | SAFETY SIGN | 1 |
| 11 | 903-18363 | YOKE, TUBE & SLIP SLEEVE | 1 |
| 12 | 903-17239 | 55E CROSS KIT | 1 |
| 13 | 903-18364 | YOKE | 1 |
| - | 903-18411 | WWCV PTO DRIVE SHAFT, 1-3/8", COMPLETE | - |

1-3/4" PTO WWCV DRIVE SHAFT COMPONENTS (55 Series)



| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--|------|
| 1 | 903-17772 | SSL / AUTO-LOK REPAIR KIT | 1 |
| 2 | 903-18327 | WWCV AUOT-LOK YOKE ASSEMBLY | 1 |
| 3 | 903-18328 | AB8/AW24/CAT 6 80° EBL CROSS & BEARING KIT | 2 |
| 4 | 903-18329 | WWCV CENTER HOUSING | 1 |
| 5 | 903-18418 | WWCV YOKE & SHAFT (1.69-20) | 1 |
| 6 | 903-18248 | GUARD REPAIR KIT | 1 |
| 7 | 903-17455 | SAFETY SIGN | 1 |
| 8 | 903-18371 | OUTER GUARD | 1 |
| 9 | 903-18372 | INNER GUARD | 1 |
| 10 | 903-17456 | SAFETY SIGN | 1 |
| 11 | 903-18373 | YOKE, TUBE & SLIP SLEEVE | 1 |
| 12 | 903-17239 | 55E CROSS & BEARING KIT | 1 |
| 13 | 903-18364 | YOKE | 1 |
| - | 903-18412 | WWCV PTO DRIVE SHAFT, 1-3/4", COMPLETE | - |

HITCH JUMP DRIVE SHAFT COMPONENTS (55 Series)



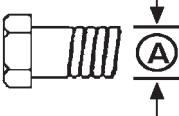
| ITEM NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|----------------------------------|------|
| 1 | 903-18364 | YOKE | 1 |
| 2 | 903-17239 | 55E CROSS KIT | 2 |
| 3 | 903-18461 | YOKE & SHAFT (1.69-20 SPLINE) | 1 |
| 4 | 903-18462 | OUTER GUARD | 1 |
| 5 | 903-18248 | GUARD REPAIR KIT | 2 |
| 6 | 903-17455 | SAFETY SIGN | 1 |
| 7 | 903-17456 | SAFETY SIGN | 1 |
| 8 | 903-18463 | INNER GUARD | 1 |
| 9 | 903-18464 | YOKE, TUBE, & SLIP SLEEVE | 1 |
| 10 | 900-03117 | BOLT, 5/8 NC x 3 | 1 |
| 11 | 900-11015 | LOCK WASHER, 5/8 | 1 |
| 12 | 903-18382 | OVERRUNNING CLUTCH ASM | 1 |
| - | 903-18424 | HITCH JUMP DRIVE SHAFT, COMPLETE | - |

BOLT TORQUE CHART

SAE Series Torque Chart

Always tighten hardware to these values unless a different torque value or tightening procedure is listed for a specific application. Fasteners must always be replaced with the same grade as specified in the manual parts list.

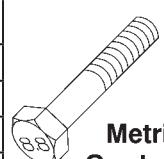
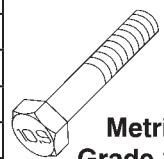
Make sure fastener threads are clean and you properly start thread engagement.

| SAE Bolt Head Identification | | SAE Grade 2 (No Dashes) | | SAE Grade 5 (3 Radial Dashes) | | SAE Grade 8 (6 Radial Dashes) | |
|------------------------------------|----------------|----------------------------|--------|----------------------------------|--------|----------------------------------|--|
| Ⓐ Diameter (Inches) | Wrench Size | MARKING ON HEAD | | | | | |
| | | SAE 2 | | SAE 5 | | SAE 8 | |
| ft./lb. | (Nm) | ft./lb. | (Nm) | ft./lb. | (Nm) | ft./lb. | (Nm) |
| 1/4" | 7/16' | 6 | (8) | 10 | (13) | 14 | (18) |
| 5/16" | 1/2" | 12 | (17) | 19 | (26) | 27 | (37) |
| 3/8" | 9/16" | 23 | (31) | 35 | (47) | 49 | (67) |
| 7/16" | 5/8" | 36 | (48) | 55 | (75) | 78 | (106) |
| 1/2" | 3/4" | 55 | (75) | 85 | (115) | 120 | (163) |
| 9/16" | 13/16" | 78 | (106) | 121 | (164) | 171 | (232) |
| 5/8" | 15/16" | 110 | (149) | 170 | (230) | 240 | (325) |
| 3/4" | 1-1/8" | 192 | (261) | 297 | (403) | 420 | (569) |
| 7/8" | 1-5/16" | 306 | (416) | 474 | (642) | 669 | (907) |
| 1" | 1-1/2" | 350 | (475) | 680 | (925) | 1020 | (1383) |
| 1-1/8" | 1-11/16" | 450 | (610) | 885 | (1200) | Bolt Diameter |  |
| 1-1/4" | 1-7/8" | 600 | (815) | 1255 | (1700) | | |
| 1-3/8" | 2-1/16" | 675 | (915) | 1620 | (2200) | | |
| 1-1/2" | 2-1/4" | 920 | (1250) | 2200 | (2900) | | |

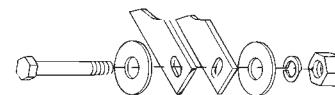
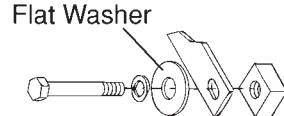
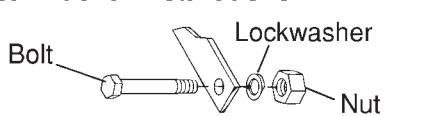
Metric Series Torque Chart

Use only metric tools on metric hardware. Always tighten hardware to these values unless a different torque value or tightening procedure is listed for a specific application. Fasteners must always be replaced with the same grade.

Make sure fastener threads are clean and you properly start thread engagement.

| Ⓐ Diameter & Thread Pitch (Millimeters) | Wrench Size | COARSE THREAD | | | | FINE THREAD | | | | Ⓐ Diameter & Thread Pitch (Millimeters) | Metric Bolt Head Identification | | |
|---|----------------|-----------------|---------|-------------|---------|-----------------|---------|-------------|---------|---|--|--|--|
| | | MARKING ON HEAD | | | | MARKING ON HEAD | | | | | | | |
| | | Metric 8.8 | | Metric 10.9 | | Metric 8.8 | | Metric 10.9 | | | | | |
| | | Nm | ft./lb. | Nm | ft./lb. | Nm | ft./lb. | Nm | ft./lb. | | | | |
| 6x1.0 | 10 mm | 8 | 6 | 11 | 8 | 8 | 6 | 11 | 8 | 6x1.0 |  Metric Grade 8.8 | | |
| 8x1.25 | 13 mm | 20 | 15 | 27 | 20 | 21 | 16 | 29 | 22 | 8x1.0 | | | |
| 10x1.5 | 16 mm | 39 | 29 | 54 | 40 | 41 | 30 | 57 | 42 | 10x1.25 |  Metric Grade 10.9 | | |
| 12x1.75 | 18 mm | 68 | 50 | 94 | 70 | 75 | 55 | 103 | 76 | 12x1.25 | | | |
| 14x2.0 | 21 mm | 109 | 80 | 151 | 111 | 118 | 87 | 163 | 120 | 14x1.5 |  Metric Grade 8.8 | | |
| 16x2.0 | 24 mm | 169 | 125 | 234 | 173 | 181 | 133 | 250 | 184 | 16x1.5 | | | |
| 18x2.5 | 27 mm | 234 | 172 | 323 | 239 | 263 | 194 | 363 | 268 | 18x1.5 |  Metric Grade 10.9 | | |
| 20 x 2.5 | 30 mm | 330 | 244 | 457 | 337 | 367 | 270 | 507 | 374 | 20x1.5 | | | |
| 22 x 2.5 | 34 mm | 451 | 332 | 623 | 460 | 495 | 365 | 684 | 505 | 22 x 1.5 |  Metric Grade 8.8 | | |
| 24 x 3.0 | 36 mm | 571 | 421 | 790 | 583 | 623 | 459 | 861 | 635 | 24 x 2.0 | | | |
| 30 x 3.0 | 46 mm | 1175 | 867 | 1626 | 1199 | 1258 | 928 | 1740 | 1283 | 30 x 2.0 |  Metric Grade 10.9 | | |

Typical Washer Installations



8/9/00

ABBREVIATIONS

| | | | |
|--------------------|--|--------------|---|
| AG | Agriculture | NC | National Course |
| ASAE | American Society of Agricultural Engineers | NF..... | National Fine |
| ATF..... | Automatic Transmission Fluid | NPSM..... | National Pipe Straight Mechanical |
| BSPP..... | British Standard Pipe Parallel | NPT | National Pipe Tapered |
| BSPTM..... | British Standard Pipe Tapered Male | NPT SWF..... | National Pipe Tapered Swivel Female |
| CV | Constant Velocity | Nm..... | Newton Meter |
| CCW | Counter-Clockwise | OSHA... | Occupational Safety and Health Administration |
| CW | Clockwise | P | Pitch |
| DIA..... | Diameter | PBY | Power Beyond |
| EP..... | Extreme Pressure | psi..... | Pounds per Square Inch |
| F | Female | PTO..... | Power Take Off |
| FB..... | Female O-Ring Boss | QD..... | Quick Disconnect |
| FJ | Female Boss | RH..... | Right Hand |
| FJX..... | Female Swivel JIC | ROPS..... | Roll Over Protection Structure |
| FP..... | Female Pipe | RPM..... | Revolutions Per Minute |
| ft./lb..... | Foot Pound | RT..... | Right |
| GA..... | Gauge | SAE..... | Society of Automotive Engineers |
| GR (5, etc.) | Grade (5, etc.) | SMV | Slow Moving Vehicle |
| HHCS..... | Hex Head Cap Screw | UNC | Unified Coarse |
| HT..... | Heat Treated | UNF | Unified Fine |
| in..... | Inch | UNS..... | Unified Special |
| JIC | Joint Industry Council 37° Flare | ZP..... | Zinc Plate |
| kg..... | Kilogram | | |
| km/h | Kilometers Per Hour | | |
| lb..... | Pound | | |
| LH..... | Left Hand | | |
| LT..... | Left | | |
| in..... | Inches | | |
| m | Meter | | |
| mm | Millimeter | | |
| M | Male | | |
| MB..... | Male O-Ring Boss | | |
| MJ..... | Male JIC | | |
| MJX..... | Male Swivel JIC | | |
| MP..... | Male Pipe | | |
| MPa..... | Mega Pascal | | |
| MPH..... | Miles Per Hour | | |
| N..... | Newton | | |

INDEX

GENERAL

| | |
|---------------------------------|--------------------|
| Abbreviations..... | 77 |
| Bolt Torque Chart | 76 |
| General Information | 1 |
| Introduction..... | Inside Front Cover |
| Product Warrenty | Inside Back Cover |
| Replacement Part Warranty | 80 |
| Specifications | 2 |
| Table of Contents | 1 |

FIELD OPERATION

| | |
|--|----|
| Depth Stops & Transport Locks..... | 16 |
| Flexing Lifter Struts (Optional) | 21 |
| Grab Roll Bed Rods | 20 |
| Grab Rolls..... | 20 |
| Lifter Wheels..... | 20 |
| Paddle Shaft..... | 21 |
| PTO Engagement | 20 |
| Raising & Lowering the Harvester..... | 16 |
| Row Finder | 19 |
| Row Finder Override | 21 |
| Storage | 22 |
| Transporting | 21 |
| Truck Boom, Lower..... | 18 |
| Truck Boom, Raise..... | 18 |
| Truck Boom Motor Speed, Adjust..... | 21 |
| Vertical Elevator | 21 |
| Wheel Fillers..... | 21 |
| Wheel Scrapers..... | 21 |

OPERATION

| | |
|---|----|
| Attaching the Harvester to the Tractor..... | 15 |
| Beet Harvester Components | 13 |
| Equipment Matching | 14 |
| Electrical System..... | 15 |
| Hitch Requirements | 15 |
| Hydraulic System | 15 |
| PTO | 15 |
| Tire Requirements..... | 14 |
| Tractor Ballast | 15 |

| | |
|---|----|
| Principal Components..... | 12 |
| Removing the Harvester from Tractor | 16 |

PARTS INDEX.....

OWNER SERVICE

| | |
|--|---------|
| Blocking Method for Lifter Wheels and Row Finder Service..... | 23 |
| Daily Service..... | 24 |
| Lubrication & Chart | 24 - 25 |
| Maintenance..... | 28 |
| Belt Replacement..... | 28 |
| Elevator Chain Cross Rod Replacement..... | 28 |
| Elevator Chain Routing & Roller Location | 28 |
| Elevator Speed Adjustment | 28 |
| Grab Roll Adjustment..... | 28 |
| Lifter Strut Adjustment..... | 28 |
| Lifter Wheel Fillers..... | 28 |
| Paddle Shaft, Elevator and Unloader Drive Chains | 28 |
| Truck Boom Service..... | 28 |

SAFETY

| | |
|-------------------------------------|--------------------|
| Check Lists | |
| Delivery..... | 3 |
| Pre-Delivery..... | 3 |
| Pre-Operation..... | 13 |
| Safety & Instructional Decals | 8 - 9 |
| Safetu-Alert Symbols | Inside Front Cover |
| Safety Rules | 2 |

WARRANTY

Please Enter Information Below and Save For Future Reference.

Date Purchased: _____ From (Dealer): _____

Model Number: _____ Serial Number: _____

ALLOWAY STANDARD, d/b/a ALLOWAY, warrants this product to be free from defect in material and workmanship for TWELVE (12) MONTHS COMMENCING ON THE DATE OF DELIVERY OF THE PRODUCT TO THE ORIGINAL PURCHASER.

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of ALLOWAY, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not apply in the event that the product has been materially modified or repaired by someone other than ALLOWAY, a ALLOWAY authorized dealer or distributor, and/or a ALLOWAY authorized service center; This Warranty does not cover normal wear or tear, or normal maintenance items. This Warranty also does not cover repairs made with parts other than those obtainable through ALLOWAY.

This Warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this Warranty does not transfer to the third party purchaser in any way. There are no third party beneficiaries of this Warranty.

ALLOWAY makes no warranty, express or implied, with respect to tires or other parts or accessories not manufactured by ALLOWAY. Their respective manufacturers, if any, provide warranties for these items, separately. ALLOWAY'S obligation under this Warranty is limited to, at ALLOWAY'S option, the repair or replacement, free of charge, of the product if ALLOWAY, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. The product must be returned to ALLOWAY with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid. ALLOWAY shall complete such repair or replacement within a reasonable time after ALLOWAY receives the product. THERE ARE NO OTHER REMEDIES UNDER THIS WARRANTY. THE REMEDY OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.

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Fargo, North Dakota 58102
701-356-4983



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Fargo, North Dakota 58102
701-356-4983

The logo for ALLOWAY features the word "ALLOWAY" in a bold, black, sans-serif font. A stylized yellow graphic of three horizontal bars of increasing height is positioned to the right of the "Y".

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