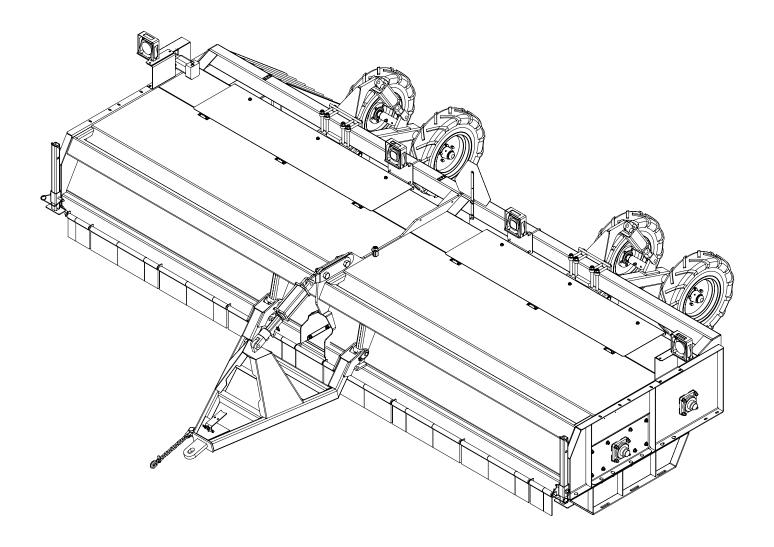


2009 - 2010

WINDROW SHREDDER



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.



Indicates that failure to observe can cause damage to equipment.

NOTE

Indicates helpful information.



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GENERAL INFORMATION

The purpose of this manual is to assist you in operating and maintaining your Windrow Shredder. 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.



■ Some illustrations in this manual show the Windrow Shredder with safety shields removed to provide a better view. The Windrow Shredder 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

Maximum Outside Body Width:	
	13'180 in. (4.57 m)
	15'204 in. (5.19 m)
	18'240 in. (6.10 m)
	20'
	22'288 in. (7.32 m)
Maximum Outside Body Height:	13′ - 22' 52 in. (1.33 m)
	13 - 22
Maximum Outside Body Depth:	13' - 22' 102 in. (2.60 m)
	,
Cutting Height	. 3 in 18 in. (0.08 m - 0.46 m)
Width of Cut:	
	13'
	15'
	20'240 in. (6.10 m)
	22'264 in. (6.71 m)
Knife: Retention	Bolt-On Cup
Knife: Pattern	Spiral
	13′72
	15' 84
	18′104
	20'
	Traction Tires (7.60 x 15) or (12.4 x 24)
Recommended Tire Inflation Pressure:	7.00 45
	7.60 x 15 40 psi. 12.4 x 24 32 psi.
	·
Rotor: Speed	1000 RPM Dynamically Balanced
Rotor: Size	12/ 10l
	13' - 18'
Drive: PTO	1-3/4" or 1-3/8" Slip Clutch (1000 RPM)
Auger: Size	1/4 x 12 x 18 Pitch
Auger: RPM	350 RPM - 450 RPM
Tractor Horse Power	Approx. 8 Hp per foot
Availible Hitches	Pull Type or 3-Point (Category II or III)
Hood Type	Tri-Lateral-Seamless
Body Thickness	1/4" Hot Rolled Mid Steel Grade 50
Weight of Shredder (approximate):	
	13'
	15' 4200 lbs. (2000 kg) 18' 4800 lbs. (2200 kg)
	20'
	22' 5600 lbs. (2600 kg)



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

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). 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
- Know your controls and how to stop engine and attachment quickly in an emer-
- 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 IMMEDI-ATELY IF FLUID ENTERS SKIN OR EYES. DO NOT DELAY.
- Never allow children or untrained persons to operate equipment.

PREPARATION

- Check that all hardware is tight and properly installed. Always tighten to torque chart specifications unless instructed otherwise in this manual.
- 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; and respirator or filter mask where appropriate.
- 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 power unit, 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.
- 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 power unit PTO shaft. Never use adapter sleeves or adapter shafts. Adapters can cause driveline failures due to incorrect spline or incorrect operating length and can result in personal injury or death.

A

SAFETY RULES ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



- Inspect rubber flaps and swing rod before each use. Replace if damaged or missing. Flaps must pivot and hang freely so there are no gaps. Do not put equipment into service until repaired.
- 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 when attachments are 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.
- Inspect and clear area of stones, branches, or other hard objects that might be thrown, causing injury or damage.

TRANSPORTING

- 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 power unit 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 power unit engine.
- A minimum 20% of tractor and equipment weight must be on the tractor front wheels when attachments are intransport 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. Weigh the tractor and equipment. Do not estimate.

- Always attach safety chain to tractor drawbar when transporting unit.
- Always raise unit and install transport locks before transporting. Leak down or failure of mechanical or hydraulic system can cause equipment to drop.
- Never exceed 20 MPH during transport. See the Speed vs. Weight Ratio Table in "Field Operation, Transporting the Unit" for proper tow vehicle to machine weight ratios.
- Watch for hidden hazards on the terrain.
- Always comply with all state and local lighting and marking requirements.
- Never allow riders on power unit or attachment.
- Do not operate PTO during transport.
- Look down and to the rear and make sure area is clear before operating in reverse.
- Do not operate or transport on steep slopes.
- Use extreme care and reduce ground speed on slopes and rough terrain.
- Do not operate or transport equipment while under the influence of alcohol or drugs.

OPERATION

- Equipment may be pictured with covers open for instructional purposes. Never operate equipment with covers open.
- Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.
- Do not allow anyone to stand between tractor and unit when backing up to unit.
- 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.



SAFETY RULES ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



(Safety Rules continued from previous page)

- Keep bystanders away from equipment.
- Do not operate or transport 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.
- Never allow riders on power unit or attachment.
- 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 power unit 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 power unit engine.
- Operate tractor PTO at the RPM speed stated in "Specifications" section.
- Do not operate PTO during transport.
- Look down and to the rear and make sure area is clear before operating in reverse.
- Do not operate or transport on steep slopes.
- Do not stop, start, or change directions suddenly on slopes.
- Use extreme care and reduce ground speed on slopes and rough terrain.
- Watch for hidden hazards on the terrain during operation.
- Stop power unit and equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.

- Always connect safety chain from equipment 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 servicing, adjusting, repairing or unplugging, stop tractor engine, place all controls in neutral, set park brake, remove ignition key, and wait for all moving parts to stop.
- 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.

MAINTENANCE

- Before servicing, adjusting, repairing or unplugging, stop tractor engine, place all controls in neutral, set park brake, remove ignition key, and wait for all moving parts to stop.
- 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.
- 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.
- Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.
- Your dealer can supply original equipment hydraulic accessories and repair parts. Substitute parts may not meet original equipment specifications and may be dangerous.



SAFETY RULES ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



- 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; and respirator or filter mask where appropriate.
- 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.
- Do not open doors to inspect auger with engine running or hydraulic control levers engaged.

- Keep all persons away from operator control area while performing adjustments, service or maintenance.
- Make certain all movement of implement components has stopped before approaching for service.
- Do not handle blades with bare hands. Careless or improper handling may result in serious injury.
- 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 machine is securely blocked or placed in lowest position and system pressure is released by operating all valve control levers.

STORAGE

- **■** Follow manual instructions for storage.
- Keep children and bystanders away from storage area.

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.

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 Shredder functions, stop tractor and make sure there are no leaks in the hydraulic system. Follow all safety rules when checking for leaks.

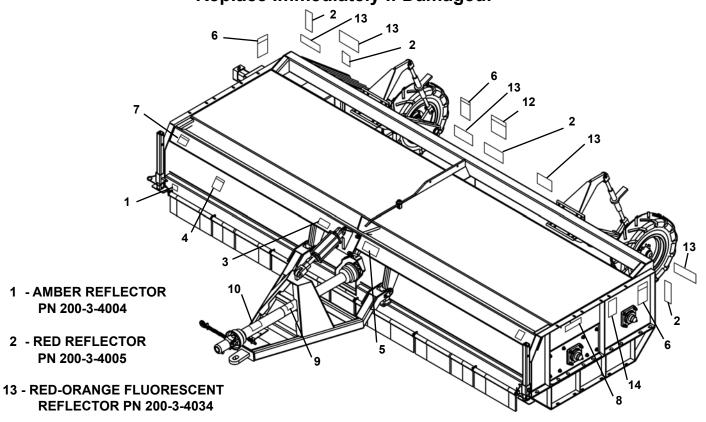
DELIVERY CHECK LIST

(DEALER'S RESPONSIBILITY)

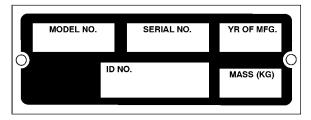
Show customer how to make adjustments and
select proper PTO speed.
Show customer how to make adjustments.
Instruct customer how to lubricate and explain importance of lubrication.
Point out the safety decals. Explain their meaning and the need to keep them in place and in good condition. Emphasize the increased safety haz- ards 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.
Extended & Retracted Length.
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 & INSTRUCTIONAL DECALS ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! Replace Immediately If Damaged!





3 - Serial Number Plate



4 - PN 500-3-0977



5 - PN 500-3-0978



6 - PN 500-3-0982



(Safety Decals continued on next page) PN-50730431 (12/09)

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







WARNING

MANUAL CONTAINER AND MANUAL ARE MISSING

- REPLACE AND READ BEFORE OPERATING.
- KEEP MANUAL CONTAINER AND MANUAL MOUNTED IN THIS LOCATION. (Available from dealer or call 1-877-275-8714.)

FAILURE TO FOLLOW MANUAL INSTRUCTIONS AND SAFETY RULES CAN RESULT IN SERIOUS INJURY OR DEATH.

8 - PN 50630192



14 - PN 100-3-1367

10 - PN 18864



ROTATING DRIVELINE CONTACT CAN CAUSE DEATH KEEP AWAY!

DO NOT OPERATE WITHOUT-

- ALL DRIVELINE GUARDS, TRACTOR AND **EQUIPMENT SHIELDS IN PLACE**
- DRIVELINES SECURELY ATTACHED AT **BOTH ENDS**
- **DRIVELINE GUARDS THAT TURN FREELY** ON DRIVELINE



7 - PN 50530314



To prevent serious injury or death:

- 1. Relieve pressure on system before repairing, adjusting or disconnecting.
- 2. Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.
- 3. Keep all components in good repair.

505-3-0315

12 - PN 50530315

OPERATOR SIGN-OFF RECORD

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 an operator's single careless act.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgement, 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 operator.

Agricultural Engineers (ASAE) and the Occupational Safety and Health Administration (OSHA).

Anyone who will be operating and/or maintaining the Windrow Shredder must read and clearly understand all Safety, Operating, and Service & Maintenance information presented in this manual.

Do not operate or allow anyone else to operate this equipment until this information has been reviewed. Review this information annually, before the season start-up. Make periodic reviews of the Safety and Operation sections a standard practice for those using any of your equipment.

Use the following Operator Sign-off Record to verify that each operator has read and understood the information in this manual and has been instructed in the safe operation of the Shredder.

DATE	OPERATOR'S NAME	OPERATOR'S SIGNATURE

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 an operator's single careless act.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgment, 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 operator.

- -- The Alloway Windrow Shredder is designed to pick up and shred crop and plant residue left in the field. Rotational power to the flails is provided by the tractor PTO.
- Place shredded material into Windrow for bailing.
- Be familiar with the Windrow shredder before starting.
- -- The owner is responsible for training operators in the safe operation of the Windrow shredder.

WARNING

- Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals are available from your Alloway dealer.) Failure to follow instructions or safety rules can result in serious injury or death.
- Never allow children or untrained persons to operate equipment.
- Make sure shields and guards are properly installed and in good condition. Replace if damaged.
- Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.
- Before dismounting power unit or performing any service or maintenance, follow these steps: disengage power to equipment, lower the 3-point hitch and all raised components to the ground, operate valve levers to release any hydraulic pressure, set parking brake, stop engine, remove key, and unfasten seat belt.
- Never allow riders on power unit or attachment.
- Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.
- Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.

A CAUTION

- Always sit in power unit 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 power unit engine.
- Never allow riders on power unit or attachment.
- Keep bystanders away from equipment.
- Operate tractor PTO at the RPM speed stated in "Specifications" section.
- Always comply with all state and local lighting and marking requirements.
- 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; and respirator or filter mask where appropriate.

Operation Continued

PRINCIPAL COMPONENTS

The Alloway Flail Shredder consists of a large rotating drum with free-swinging steel flails attached. The flails pick up or strike crop residue or trash and shred it. Rotational power to the drum is provided by the tractor PTO through a gearbox in the center of the machine.

For removing the center strip of crop residue, an optional hydraulically driven blade can be installed under the cover in the center of the machine.

The flail shredder is designed to be used as a pull-type, semi-mounted, or 3-point mounted machine.

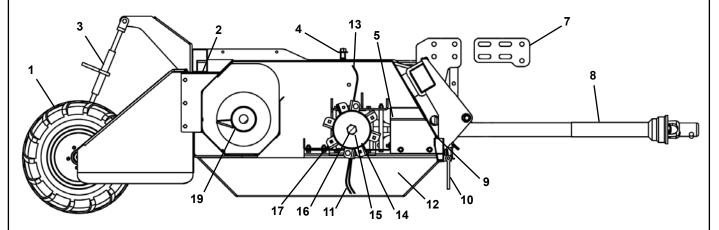


Figure 1a. Flail Shredder with 3-Pt Hitch Principal Components

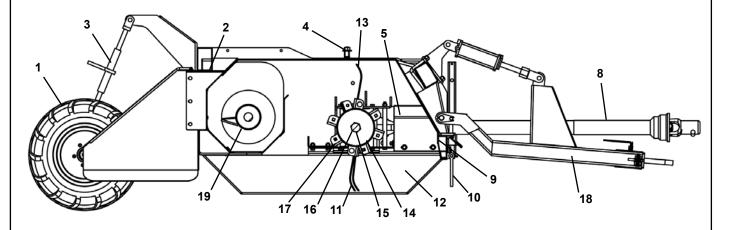


Figure 1b. Pull Type Flail Shredder Principal Components

- 1. Wheels
- 2. Rear hitch
- 3. Ratchet
- 4. Dipstick
- 5. Gearbox
- 6. 3-Point hitch
- 7. Floating mast
- 8. Driveline
- 9. Frame
- 10. Rubber shield flaps

- 11. Flails
- 12. Skid Plate
- 13. Cup Flail
- 14. Rotor (Flail Tube)
- 15. End bearing
- 16. Stub shaft
- 17. Flail Tube Clip
- 18. Pull Type Hitch
- 19. Auger

PRE-OPERATION CHECK LIST

(OWNER'S RESPONSIBILITY) Continued

IMPORTANT

- This Pre-Operation Check List is provided for the operator. It is important to follow for both personal safety and maintenance of the flail shredder.
 - Check all lubrication points and grease as instructed in Lubrication Schedule, page 33.
 - Use only a tractor of adequate power and weight to pull the unit.
 - Check that the unit is properly attached to the tractor. On pull-type unit, be sure there is a mechanical retainer through the drawbar pin and and the safety chain is installed. On 3-point hitch units, be sure retainers are used on the mounting pins.

- Check oil level in gearbox. Add oil as required.
- __ Check that the PTO driveline turns freely and that the driveline can telescope easily.
- Check tire pressure. Bring to specified level.
- Check flails. Inspect for damage or breakage.
 Make sure the swing freely on their mount.
 Repair or replace as required.
- ____ Check condition of cutter blade (if so equipped).
- ____ Inspect all hydraulic lines, hoses, couplers, and fittings. Tighten, repair, or replace any leaking or damaged components.
- ____ Install and secure all guards, doors, and covers.
- Check PTO clutch operation (See Servicing Weasler Modular Friction Clutch, page 44).

Choosing the Correct Equipment

To ensure safe and reliable operation of the flail shredder, use a tractor with the correct specifications. Use the following guidelines to select the correct tractor.

1. Horsepower

Use Table 1 for selecting the tractor horsepower class appropriate for your unit's width.

Increase the horsepower level by 25 percent when operating in hilly, soft, or wet conditions.

2. Tractor Weight

By following recommendations for tractor horsepower, the tractor will have sufficient weight to provide stability for unit during field operation or when transporting.

When using a 3-point mounted shredder, It is recommended that each tractor be equipped with a full complement of suitcase weights on the tractor front (see Figure 2 for example). This will provide the required front weight for turning and extra traction if equipped with front wheel assist.

Width	Minimum Horsepower
13'	100
15'	120
18'	140
20'	160
22'	180

Table 1: Tractor Horsepower vs. Unit Width

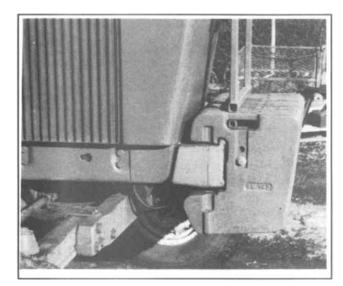


Figure 2. DTractor Front Weights

Choosing the Correct Equipment (Cont'd)

3. 3-Point Hitch

The 3-point hitch models require the tractor to be equipped with a Category II or Category III 3-point hitch. If the hitch can be converted from one to the other, use a Category III to provide a wider stance and more stability.

Use the upper pin hole for Category III and the lower hole for Category II as shown in Figure 3

For easier attachment, use a quick hitch. If not using a quick hitch, use optional hitch extension.

4. Load Sensing Hydraulics (3-Point models only)

Many newer tractors are equipped with "load sensing" hydraulics. The operator is responsible for setting the tractor hydraulic system to provide "float" on the 3-point hitch. Refer to the tractor manual for specific instructions.

The "float" feature will allow the unit to follow the ground contours during operation. This applies to 3-point mounted machines only.



Figure 3. 3-Point Hitch Attachment

5. Drawbar (Pull-type models only)

The tractor drawbar must be set to provide 16" - 20" (406 mm - 508 mm) between the end of the PTO shaft and the center of the drawbar pin for all and 1000 rpm PTO. See Figure 4. This dimension will provide the required clearance for the CV (Constant Velocity) joint on the front of the driveline.

IMPORTANT

■ Do not use PTO shaft adapters. They will change the drawbar dimension and can cause driveline failures.

NOTE: On pull-type models, do not cut driveline.

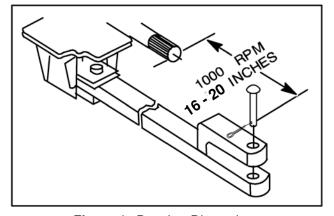


Figure 4. Drawbar Dimensions

Break-in of the Flail Shredder

The following should be observed when operating the unit for the first time:

IMPORTANT

■ Before operating the unit in the field, run the PTO clutch. See Servicing Weasler Modular Friction Clutch, page 44.

After operating for 1/2 hour

- **1.** Check all nuts, bolts, and other fasteners. Tighten to specifications given in the Bolt Torque Chart, page 72.
- **2.** Tighten wheel bolts to specifications given in the Bolt Torque Chart, page 72.

- **3.** Check that the flails are in good condition and swing freely.
- **4.** Check oil level in the gearbox. Add oil if needed.
- 5. Check that the PTO driveline shield turns freely.
- **6.** Lubricate all grease points.
- 7. Check to see if auger is turning in correct direction.
- 8. Check auger speed approximately 450 RPM.

After operating for 5 to 10 hours

- 1. Repeat Steps 1 to 5 above.
- **2.** Follow regular service schedule as outlined in Service & Maintenance.

PTO Driveline Length (3-Poinf & 2-Point models only)

The unit is equipped with a PTO driveline long enough to fit any tractor and 3-point linkage system.

The operator is responsible for measuring the dimensions of the driveline through its working range. These dimensions will indicate if the driveline requires shorting to operate on the particular tractor/unit attachment system. The operator must check dimensions before using the unit for the first time and each time a different tractor is used with the unit

Use the following procedure when determining driveline dimension:

1. Clear the area of bystanders, especially children.



■ Keep bystanders away from equipment.

- **2.** Attach the 3-point hitch to the unit but not the PTO driveline.
- **3.** Raise the unit until the tractor PTO and gearbox shafts are the same height.
- **4.** Measure the dimension between the shaft grooves on the tractor and implement ends. If this dimension is less than 34.81 inches, the shaft will require shortening.

- **5.** Move the unit to its highest and lowest working position and measure this dimension again. The unit's shaft can telescope (see Figure 6) before it has been shortened.
- **6.** If required, shorten the shaft to prevent bottoming out during use. NOTE: An extra inch of compression space in the shaft can eliminate bottoming out during use. Measure to make sure.
- 7. Use an abrasive wheel power saw to cut the male end of the shaft. Cut the same amount from both the splined shaft and the safety shield. See Figure 5. Use a file to remove any burrs from the cut end.

IMPORTANT

- Cut only the male end. Never cut the female end.
- **8.** Never cut more than 9 inches from the male end. Cutting 1 inch from the male end shortens both the minimum and maximum lengths by 1 inch.
- **9.** Raise tractor all the way up and lower all the way down. Do not allow PTO to bottom out or pull apart. Contact Dealer if you have issues.

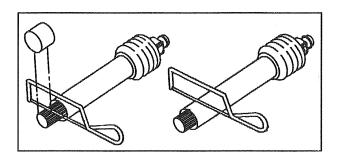


Figure 5. Cutting the Driveline Shaft

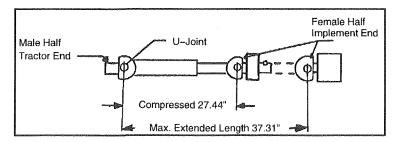


Figure 6. Driveline Dimension - 3-Pt Hitch

Attaching the Shredder to the Tractor

1. Place unit on a level, dry area free of debris and other foreign object.

WARNING

- Keep bystanders away from equipment.
- 2. Clear the area of bystanders, especially children.

3-point and 2-point models:

- **4.** Set the height of the 3-point hitch so that quick hitch claws are lower than the mounting pins.
- **5.** Make sure 3-point hitch is set in the non-sway position. See tractor manual for details.
- **6.** Align the claws under the mounting pins (see Figure 7) while backing up.

NOTE: For a Category II hitch, use the bottom hole for the center pin. For a Category III hitch, use the top hole for the center pin.

- 7. When the claws are under the pins, slowly raise the 3-point hitch. Make sure each mounting pin seats in its respective claw.
- **8.** Release the claw retainer locks to secure the mounting pins in the claws.
- 9. Check the top link frame. It should be free to slide

3. Provide enough clearance to back the tractor safely into the unit.



■ Do not allow anyone to stand between tractor and unit when backing up to the unit.

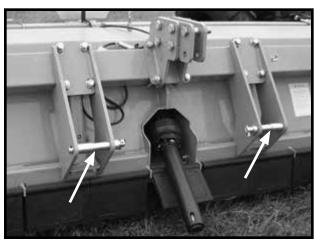


Figure 7. Attaching to 3-point model

in its mounting slots. This movement allows the unit to follow the ground contour when cresting a hill or going through a depression.

Pull-type model:

- **4.** Use the ratchet (see Figure 8) on top of the hitch to set the hitch height.
- **5.** Check and set the drawbar dimension.
- 6. Back the tractor up to the hitch.
- 7. Use a hardened drawbar pin that provides for a mechanical retainer, such as a Klik pin.
- **8.** Attach a safety chain around the drawbar or cage to prevent unexpected separation. Provide sufficient slack for turning.
- **9.** Use the ratchet to transfer the unit's weight to the drawbar.
- **10.** Make sure the drawbar is pinned in its center position.

Attach PTO Driveline

11. Make sure the driveline telescopes easily and shields rotate freely.

IMPORTANT

■ The drawbar may need repositioning to provide clearance for the driveline.



Figure 8. Attaching to Pull-type model

12. Attach the driveline to the tractor by retracting the locking collar. Slide the yoke over the shaft and push on the yoke until the lock collar clicks into position. Make sure the yoke is locked into position. See Figure 9.

Attach Hydraulics

13. Use a clean cloth to clean hose ends and area around the couplers on the tractor (Check direction of Rotation on Flighting).

Attaching the Shredder to the Tractor (Cont'd)

- **14.** Insert the hose male ends into the tractor couplers. Make sure hoses lock in place.
- **15.** Route hoses along or over the hitch and secure in position with clips, tape, or plastic ties. Provide enough slack for turning and lifting.

Raise Stands

- **16.** Use hitch ratchets or 3-point hitch to raise the front of the machine.
- **17.** Unpin front frame stands. Raise and pin in their upper position. See Figure 10.



1. Reverse the above procedure (Steps 1-17) when removing unit from the tractor.



Figure 9. Belt Drive

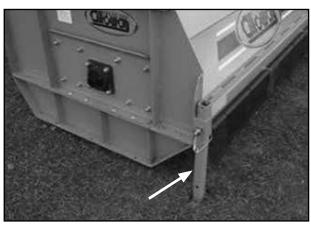


Figure 10. Parking Stand

Field Operation

The Alloway Flail Shredder is designed with the flexibility to operate well in almost any kind of crop and terrain conditions. However, the operator is responsible for being familiar with all operating and safety procedures and following them.

Each operator should review this Field Operation

section at the start of the season and as often as required to be familiar with the unit.

Operators should also review the PRE-OPERATION CHECK LIST, Attaching the Shredder to the Tractor, and Transporting the Unit.

WARNING

- Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals are available from your Alloway dealer.) Failure to follow instructions or safety rules can result in serious injury or death.
- Never allow children or untrained persons to operate equipment.
- Make sure shields and guards are

properly installed and in good condition. Replace if damaged.

- Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.
- Before dismounting the power unit or performing any service or maintenance, follow these steps: disengage power to equipment, lower the 3-point hitch and all raised components to the ground, operate valve levers to release any hydraulic pressure, set parking brake, stop engine, remove key, and unfasten seat belt.

WARNING

- Never allow riders on power unit or attachment.
- Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.
- Inspect and clear area of stones, branches, or other hard objects that might be thrown, causing injury or damage.
- 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.

A CAUTION

- Always sit in power unit 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 power unit engine.
- Keep bystanders away from equipment.
- Operate tractor PTO at the RPM speed stated in "Specifications" section.
- a Always comply with all state and local lighting and marking requirements.
- 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; and respirator or filter mask where appropriate.

Transporting the Unit



MARNING

■ Never allow riders on power unit or attachment.



AL CAUTION

- Always comply with all state and local lighting and marking requirements.
- 1. Be sure all bystanders are clear of the unit.
- 2. Be sure center cutter is disengaged and has stopped turning (if so equipped).
- 3. Be sure the unit is securely attached to the tractor and all retainer pins are installed.
- 4. Be sure safety chain is installed on pulltype model.
- **5.** Raise the machine.
- **6.** Clean the SMV emblem, lights, and reflectors and be sure they are working.

Road Speed	Fully equipped or loaded implement(s) weight relative to towing machine weight
Up to 32 km/h (20 mph)	1 to 1 or less
Upto16km/h (10 mph)	2 to 1 or less
Do not tow	more than 2 to 1

Table 2: Speed vs. Weight Ratio

- 7. Be sure you are in compliance with all applicable lighting and marking regulations when transporting. Check with your local authorities.
- 8. Never transport the unit faster than 20 mph (32 kmph). The ratio of the tractor weight to the shredder weight plays an important role in defining acceptable travel speed. Table 2 summarizes the recommended travel speed-to-weight ratio.

Preparing for Operation

- **1.** Pull into the field and position the unit in a level area.
- **2.** Lower into operating position.
- **3.** 3-Point hitch models: Set the 3-point so the quick hitch is vertical and the floating upper mast is forward.

Flail Height

4. Set the unit to give a flail height of at least 2-1/2 to 6 inches (75 to 150 mm) above the ground. This will minimize the amount of stones and dirt picked up by the flails under all operating conditions.

NOTE: To avoid unnecessary wear on knives and related parts, never set the unit lower than the recommended setting.



Figure 15. Flail Height

Set Operating Height

3-Point hitch models

Use the ratchet on the cylinder stops on the rear struts and on third link of 3-point to set the unit height.

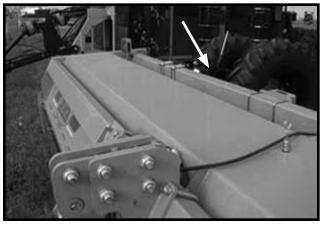


Figure 16. 3-Point Hitch Models

Pull-type models

Use the cylinders on the hitch and rear struts to set the unit height.



Figure 17. Pull-type Models

3-Point & 2-Point Hitch Models

- **1.** Set lower 3-point arms in the free-float position.
- 2. Set the hitch in the non-swing position.
- **3.** Set the hydraulic system to allow the 3-point to float. Refer to tractor manual for instructions.
- **4. 3-Point models only:** Be sure the floating mast is free to slide in its mounting frame to allow the machine to follow ground contours. Refer to Figure 18.

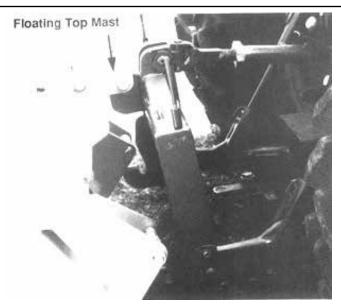


Figure 18. Free-float position

Flails

Cup Flails

The shredder is factory equipped with cup type flails.

Cup flails (Figure 19) can pick up material from the ground and work best in matted trash conditions.

The standard cup flail is 11 inches (279 mm) long and is used for most applications. Optional 7 and 9 inch (177 and 228 mm) flails are available to match the tip position to ground contour.

Attach optional cup flails as follows (see Figure 20):

- Leave standard flails located between the rows.
- 2. Remove others and install shorter flails to follow ground contour. Be sure to mount the same size flails on opposite sides of the tube. Measure the row spacing and flail position carefully to minimize ground contact.

Setting Flail Height

- 1. Be sure wheels are set to follow in the center of furrow row. Set flails 3 to 6 inches (75 to 150 mm) above the ground.
- **2.** Align the unit with the working area on or between rows on flat farming.
- **3. 3-Point models:** Set the 3-point hitch so the wheels carry only a small portion of the unit's weight and act more as stabilizing wheels. See tractor manual for setting hitch.

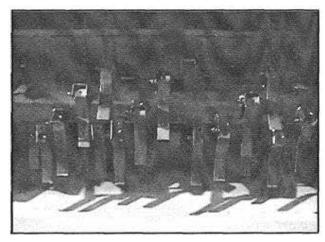


Figure 19. Cup Flails

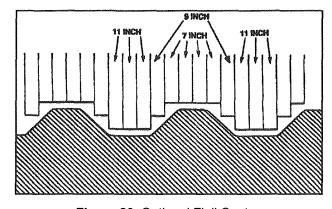


Figure 20. Optional Flail Contour

Setting Outer Trailing Wheels

Normally, wheels are set to track in the row centers, between the raised seed beds. Tire position will determine flail height, but depth of furrow is also a factor in setting flail height. In some conditions the furrow between the seed beds is deeper on the ends, where irrigation waters enter the field. As furrows change depth, flail height will change.

To compensate for the depth change, move the trailing wheels against the side of the outer seed bed (see Figure 21). The wheels will then tend to climb up the side of the seed bed and prevent the flails from hitting the top of the bed.

Set the flail height after the wheels have been moved against the seed bed.

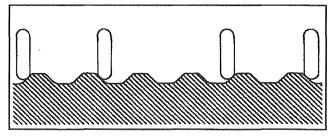


Figure 21. Wheel Position

Adjust wheel position by moving spindle to different hole location in spindle holder tube.

Auger Operation

- **1.** Check direction of Auger. Looking from Discharge side of machine, Auger spins in counter-clockwise direction.
- **2.** Adjust Auger speed according to amount of trash in the field. If auger plugs or slows down, adjust Hydraulic Flow in tractor.
- 3. Auger speed RPM, between 350-450.
- **4.** Auger needs to be running when windrow shredding..

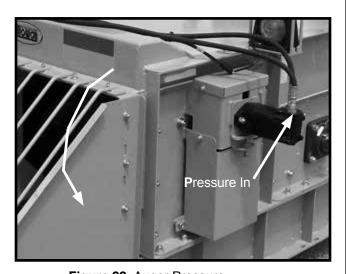


Figure 22. Auger Pressure

Starting the Tractor

- 1. Run tractor engine at low idle.
- Engage Auger.
- 3. Slowly engage PTO control to start the shredder.
- 4. Slowly bring tractor engine to rated PTO speed. Never exceed rated speed.



Stopping the Tractor



WARNING

- Before dismounting power unit or performing any service or maintenance, follow these steps: disengage power to equipment, lower the 3-point hitch and all raised components to the ground, operate valve levers to release any hydraulic pressure, set parking brake, stop engine, remove key, and unfasten seat belt.
- 1. Slowly decrease engine speed to low idle.
- 2. Slowly disengage PTO clutch. The overrunning clutch will allow the shredder to freewheel down.
- 3. Disengage Hydraulics for Auger Motor.
- **4.** Restart the unit only after the drums quit turning The PTO will not need to be disengaged to lift the unit on the ends or while turning.

Hazard Area



WARNING

Make certain all movement of equipment components has stopped before approaching for service.

Stay away from front, side, and rear of unit while it is running. Flails can pick up stones, sticks, wire, and other debris and throw it out with enough force to severely injure bystanders.

Keep out of shaded area shown in Figure 23.

Shut down unit and wait for moving parts to stop before approaching.

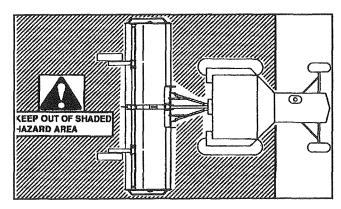


Figure 23. Hazard Area

Ground Speed

Travel speed can vary between 3 and 8 mph (5 and 13 kmph) depending on the bulk of residue and terrain conditions. The operator is responsible for noting the condition of the work, setting the speed to obtain a quality shredding job, and maintaining control of the unit.

Speed may be increased if shredding quality is good.

Decrease speed if trash is left standing or if some is not picked up.

Turning

3-Point mounted units:

Always raise the unit slightly to lift rear wheels off the ground before turning. This will eliminate side loads on the wheel assembly, unless unit is equipped with castor wheels.

Pull-type units:

The front universal is equipped with a CV (Constant Velocity) joint to allow for turning. Although the CV joint allows for sharper turns than a regular drive-line, it does have some limitations. Refer to Figure 24.

CV joint angle should not exceed 80 degrees in either operating or standstill condition of the drive-line. Larger angles will damage the joint.

The angle should never exceed 35 degrees when the driveline is under full load.

IMPORTANT

■ Disengage PTO when making sharp turns.

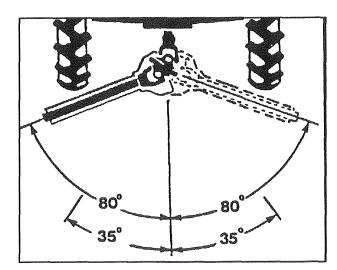


Figure 24. CV Joint Angles

Additional Equipment

Center Divider (Optional)

An optional center divider (Figure 27) can be mounted under the gearbox for pushing trash to the flails.

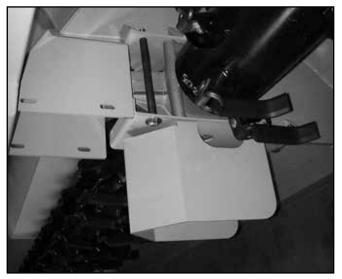


Figure 27. Optional Center Divider

Front Shield Flap

All units are equipped front shield flaps (Figure 28) along the front of the frame. The shield flaps stop or deflect any trash, stones, or other debris picked up by the flails.

Be sure the shield flaps are in good condition for operation. Replace if damaged, torn, or missing.



Figure 28. Front Shield Flap

End Guards & Skids

All units are equipped with end guard skids (Figure 29) to prevent flying debris or flail-to-ground contact.



■ Replace damaged or missing skids immediately.



Figure 29. Skids

STORAGE

WARNING

- Block equipment securely for storage.
- Keep children and bystanders away from storage area.

At the end of the season, the shredder should be thoroughly inspected and prepared for storage. Repair or replace any worn or damage components to prevent unnecessary down time at the beginning of the next season.

To ensure a long, trouble-free life, prepare the unit for storage by carrying out the following procedure:

- 1. Clear the area of bystanders, especially children.
- **2.** Thoroughly wash the unit, using a pressure washer to remove all dirt, mud, debris, and residue. Clear Auger Trough of debris.
- **3.** Inspect the flails and rotors for damage or entangled material. Remove entangled material. Repair or replace damaged parts.
- **4.** Inspect all hydraulic hoses, lines, couplers, and fittings. Tighten all loose fittings. Replace any hose that is cut, nicked, abraded, or separating from the crimped end of a fitting.
- 5. Change gearbox oil.

- **6.** Lubricate all grease fittings. Make sure all grease cavities have been filled with grease to remove any water residue from from pressure washing.
- **7.** Touch up all paint nicks and scratches to prevent rust.
- **8.** Move to storage area. Select a dry area free of debris. Store in an area away from human activity.
- **9.** Unhook from tractor (see Removing the Shredder from the Tractor, page 18).
- **10.** Place safety stands or large blocks under the frame to take the load off the tires.

NOTE: Do not deflate tires.

- **11.** If the unit cannot be placed indoors, cover with a waterproof tarpaulin and tie securely. Store away from human activity
- 12. Do not allow children to play on or around the stored unit.

SERVICE & MAINTENANCE

WARNING

- Before dismounting power unit or performing any service or maintenance, follow these steps: disengage power to equipment, lower the 3-point hitch and all raised components to the ground, operate valve levers to release any hydraulic pressure, set parking brake, stop engine, remove key, and unfasten seat belt.
- Before working underneath, read manual instructions, securely block up, and check stability. Secure blocking prevents equipment from dropping due to hydraulic leak down, hydraulic system failure, or mechanical component failure.
- Keep all persons away from operator control area while performing adjustments, service, or maintenance.

- Make sure shields and guards are properly installed and in good condition. Replace if damaged.
- Do not handle blades with bare hands. Careless or improper handling may result in serious injury.

A CAUTION

- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, roughsoled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.
- Make certain all movement of equipment components has stopped before approaching for service.

Lubricants

1. Grease

Use an SAE multi-purpose high temperature grease with extreme pressure (EP) performance. An SAE multi-purpose lithium-based grease is also acceptable.

2. Gearbox Oil

Use an SAE 85W90 gear oil for all operating conditions. Capacity: 3-1/2 U.S. quarts (2.25 liters)

3. Storing Lubricants

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

Greasing

NOTE: Use the Lubrication Service Record, page 36 to keep a record of all scheduled maintenance.

- 1. Use a hand-held grease gun for all greasing.
- 2. Wipe grease fitting with a clean cloth before greasing to avoid injecting dirt and grit.
- 3. Replace and repair broken fittings immediately.
- 4. If fittings will not take grease, remove and clean thoroughly. Also clean lubricant passageway. Replace fitting if necessary.

Service & Maintenance Continued

Lubrication Schedule

NOTE: Recommendations are based on normal operating conditions. Severe or unusual conditions may require more frequent lubrication or oil changes. Refer to Figure 30.

Daily or every 8 hours of operation

PTO Driveline Lubricate daily or every 8 hours of operation (every 4 hours if U-joints run at angles). See Figure 29 for lubrication points.

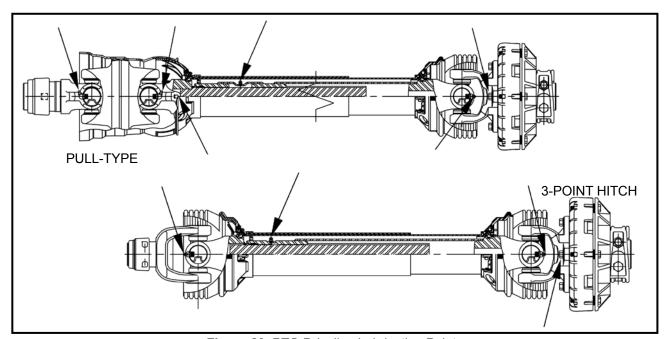


Figure 29. PTO Driveline Lubrication Points

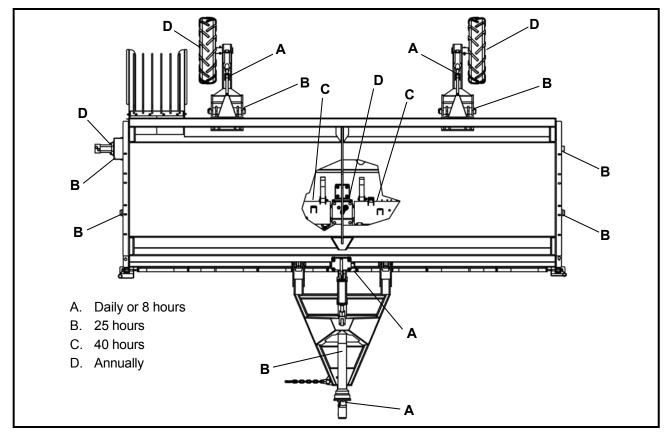


Figure 30. Lubrication Points

Service & Maintenance Continued

Lubrication Schedule (Cont'd)

Daily or every 8 hours of operation

1. Check gearbox daily or every 8 hours of operation. See Figure 31 for gearbox oil fill location

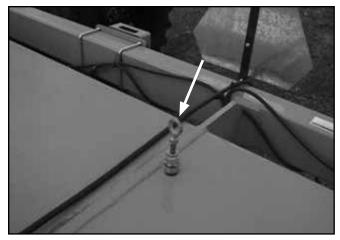


Figure 31. Gearbox Oil Fill Location

Every 25 hours of operation

- **1.** Lubricate PTO driveline telescoping section (1 location, Position B, Figure 30).
- 2. Lubricate rotor end bearings. See Figure 32.

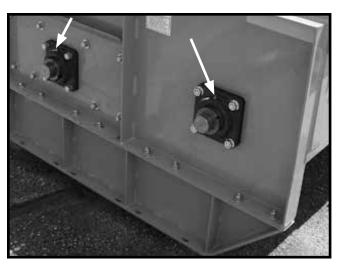


Figure 32. Auger and Rotor End Bearing Lubrication Points

3. Lubricate wheel strut pivots (3 to 5 locations). See Figure 33.



Figure 33. Wheel Strut Pivot Bearing Lubrication Points

Lubrication Schedule (Cont'd)

Every 40 hours of operation

- 1. Lubricate rotor drive hubs next to the couplers on underside of unit (2 locations). See Figure 34.
- 2. Grease the drive hubs with 10 to 20 shots. You may use extra grease only on drive hubs.

Annually

1. Change gearbox oil. Refill with SAE 85W90 gear oil. See Figure 34.

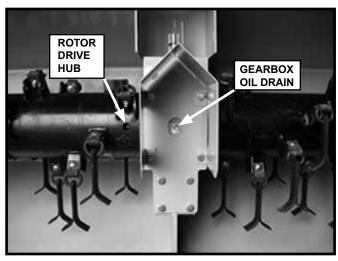


Figure 34. Rotor Drive Hub Lubrication Points & Gearbox Oil Drain Location

2. Repack wheel bearings. See Figure 35.



Figure 35. Wheel Bearings

3. Lubricate ratchets as necessary (2 locations each ratchet). See Figure 36.

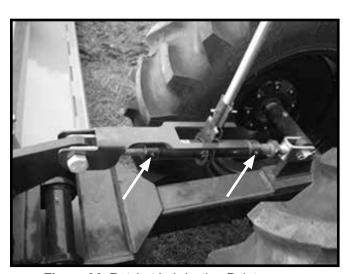


Figure 36. Ratchet Lubrication Points

Service & Maintenance Continued

Lubrication Service Record NOTE: See page 33 through page 35 for details. Copy this page to continue service record.						CHECK L LUBRICATE					C CHANGE				
HOURS OF SERVICE															
SERVICED BY															
10 Hours or daily															
L PTO Driveline (8)															
L PTO Driveline telescope section															
L U-Joint(1)															
L Overrunning clutch (1)															
✔ Gearbox oil level															
25 Hours															
L Rotor end bearings															
L Wheel mounting tube bear-ings															
40 Hours															
L Rotor inner bearings (2)															
Annually															
C Gearbox oil															
R Wheel bearings															

Acceptable Oil Leakage from Gearbox

Not all gearbox oil leakage or seepage is serious.

IMPORTANT

- Gearbox oil seepage is acceptable if
 - 1. Oil covers less than a 3-inch diameter area around the shaft seal area (see Figure 37).
 - 2. Oil covers 4 inches around the vent or drain plugs (see Figure 37).
 - if oil covers an area larger than that described in 1 & 2, do the following:
 - a. Check gearbox oil level. If it is low, fill to proper level.
 - b. Clean oily area of gearbox. Use a degreaser to remove all oil.
 - c. Closely monitor gearbox for 10 hours of operation. Check oil level often.
 - d. If after 10 hours of operation oil covers less than area described in 1 & 2 above, leakage is acceptable.

NOTE: Warranty only covers oil leakage that is in excess of above limits.

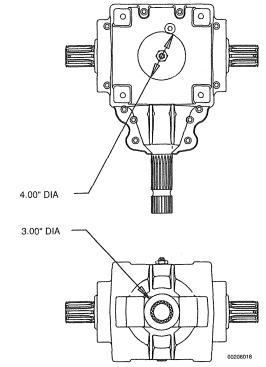


Figure 37. Acceptable Oil Leakage

Changing Gearbox Oil

Although gearbox oil never wears out, dust, dirt, and moisture can enter through the breather during operation. These contaminants must be removed once a year to ensure a long life for working components. In very dusty or dirty conditions, change the oil twice a year.

- 1. Clear area of bystanders, especially children.
- **2.** Shut off tractor, place all controls in neutral, set parking brake, remove key, and wait for all moving parts to stop.
- **3.** Raise the unit to provide access to underside. Place safety stands or large blocks under frame.
- **4.** Disconnect PTO driveline and hydraulic lines.
- **5.** Place a pan under drain plug. Remove drain plug and dip stick plug (see Figure 38).
- 6. Allow gearbox to drain for 10 minutes.

NOTE: To remove the most contaminants, drain oil when gearbox is hot.

- 7. Re-install and tighten drain plug.
- 8. Dispose of used oil in an approved container.
- **9.** Add SAE 85W90 gear oil through the dip stick cover. Use the dip stick to check the oil level (Figure 39) and add oil accordingly.
- 10. Re-install and tighten fill plug.
- 11. Reconnect PTO driveline and hydraulic lines.
- 12. Remove blocks or safety stands.



Figure 38. Drain Plug (underside of unit)



Figure 39. Dipstick Location

Service & Maintenance Continued

Setting Ratchets

Mechanical ratchets provide height setting for the unit. To set ratchets, follow this procedure:

- **1.** Clear the area of bystanders, especially children.
- **2.** Turn the turnbuckle to achieve the desired ratchet length (see Figure).
- 3. Repeat Step 2 with other ratchets.



Wheel Spacing

The rear wheels can be adjusted for alignment with crop rows.

- 1. Clear the area of bystanders, especially children.
- **2.** Shut off tractor, place all controls in neutral, set parking brake, remove key, and wait for all moving parts to stop.
- 3. Use a jack with sufficient capacity to lift the frame.
- **4.** To determine wheel spacing, measure from the center line of the unit. Mark positions on the frame.
- 5. Lift frame until wheels have cleared the ground.
- **6.** Place safety stands or large blocks under the frame.
- 7. Loosen mounting bolts on one wheel assembly.
- **8.** Slide assembly along the frame tube to new position (see Figure 40).
- **9.** Tighten mounting bolts to specified torque level.
- 10. Remove safety stands or blocks.
- 11. Lower and remove jack.
- 12. Repeat with other wheel assembly.



Figure 40. Positioning Wheel Assembly

Replacing Flails

WARNING

■ Do not handle blades with bare hands. Careless or improper handling may result in serious injury.

The flails swing on bushings, which are sandwiched between clips and mounted to the flail tube with bolts. Regularly inspect the flails for wear or damage. To replace worn or damaged flails, follow this procedure:

- **1.** Clear the area of bystanders, especially children.
- 2. Shut off tractor, place all controls in neutral, set parking brake, remove key, and wait for all moving parts to stop.
- 3. Disconnect driveline and hydraulic lines from the tractor.
- 4. Place safety stands or large blocks under the
- 5. Loosen and remove the mounting bolt on the worn flail and its opposite on the other side of the rotor. Discard worn flails and their mounting hardware.
- 6. Replace with new flails and and mounting hardware (see Figure 41).
- 7. Tighten flail mounting bolt to its specified torque.

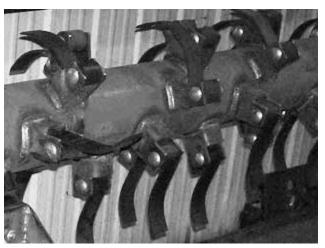


Figure 41. Flail Replacement

IMPORTANT

- To maintain rotor balance, always replace opposite pairs of flails and mounting hardware.
- 8. Replace additional worn flails following Step 5 and Step 6.
- 9. Remove safety stands or blocks from under frame.
- 10. Lower unit and remove jack.
- 11. Attach driveline and hydraulic line to tractor.

Replacing Rubber Shield Flaps

Rubber shield flaps on the front of the unit deflect or prevent stones or debris from being ejected when operating unit. Replace if damaged or missing to provide a safe work environment. To replace, follow this procedure:

- 1. Clear the area of bystanders, especially children.
- 2. Lower the unit to the ground, place all controls in neutral, shut off engine, set park brake, remove key, and wait for all moving parts to stop before dismounting.

NOTE: For 3-point hitch units, unhook to gain access to center flaps.

- 3. Remove the cotter pin from the end of the flap rod and pull rod until the flap comes off.
- Install new shield flap.
- **5.** Push rod through flaps and re-install cotter pin.



Figure 42. Front Rubber Shield Flaps

NOTE: Use only genuine Alloway parts when replacing flaps.

Servicing Rotors

The shredder rotors are dynamically balanced from the factory and should be maintained to keep them in balance and to prevent excessive wear on drive components.

IMPORTANT

■ Any vibration caused by missing knives or worn drive components can cause excessive damage to the shredder. Vibration is also transmitted through the PTO shaft to the tractor and will damage tractor

When servicing rotors, follow this procedure:

- 1. Clear the area of bystanders, especially children.
- **2.** Shut off tractor, place all controls in neutral, set park brake, remove key, and wait for all moving parts to stop.
- 3. Disconnect unit from the tractor.
- 4. Remove the PTO driveline from the unit.
- 5. Remove wheel arms.
- **6.** Use a hoist, crane, or a frame of sufficient capacity to raise the front of the unit and allow back of unit to rest on a solid surface.

A CAUTION

- Use a suitable lifting device of sufficient capacity. Use adequate personnel to handle heavy components.
- **7.** Leave lifting device attached while working on rotors to prevent tipping.
- **8.** Remove knives. Wear heavy canvas or leather gloves to protect your hands.

Removing components:

- **1.** With unit raised (Step 6), support each end of rotor with crane or hoist.
- 2. Remove bearing locking collar (see Figure 44).
- **3.** Remove 8 bolts holding bearing plate to body assembly.
- **4.** Slide rotor out to disengage from the Windrow hub.
- **5.** Check drive hubs for wear and replace if necessary. If O-ring grease seal is cut or worn, replace it.
- **6.** Remove gearbox if damaged.

Replacing components:

Place new stud bolts into gearbox, using Loctite® No. 271 or equivalent.

- 7. Remount gearbox.
- 8. Insert outer shaft through end plate hole.
- **9.** Install drive hub to gearbox output shaft. Thoroughly clean both halves of the drive couplers and apply new grease to all gear teeth.

NOTE: When replacing flail tube, you will have to remove the grease zerk to allow air to purge from the coupler assembly. Then replace grease fitting and follow lubrication schedule.

10. Install bearing plate bolts and tighten to specified torque.

IMPORTANT

- To keep drive hub bolts from loosening, use Loctite No. 271 or equivalent and special Hi-Collar lock washers.
- **11.** Re-install locking collar and tighten in the direction of rotation (see Figure 44).

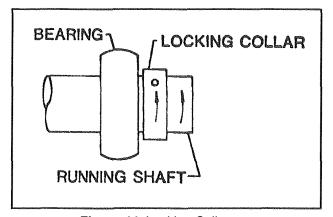


Figure 44. Locking Collar

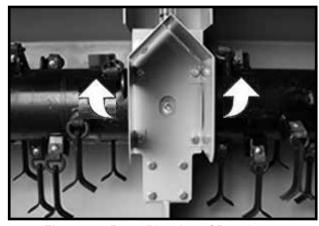


Figure 45. Rotor Direction of Rotation

Service & Maintenance Continued

Replacing Stub Shaft

- **1.** Remove rotor (see Servicing Rotors, page 41).
- **2.** Remove three $1/2 \times 2-1/2$ hex bolts in taper lock hub and re-install bolts in three threaded holes (see Figure 46).
- **3.** Tighten bolts evenly to release taper lock hub from stub shaft. **NOTE:** You may have to give a sharp blow directly to each bolt head to help the hub disengage.
- **4.** Unscrew stub shaft from the rotor tube.
- 5. Install new stub shaft, reversing Steps 1-3.

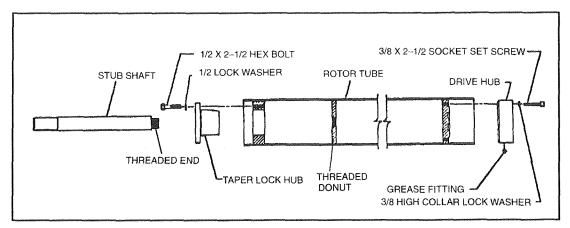


Figure 46. Stub Shaft Assembly

Servicing Weasler Modular Friction Clutch

Tools Required

- 3/4" Socket wrench
- 8" Minimum C-clamps (2)
- 1/4" Hex Allen wrench
- · Regular screwdriver or punch
- Duct tape or locking pliers with 3" throat minimum
- Hammer
- 1/2" sq. to 1"sq. barx 9"
- · Scale or Vernier

Breaking in the Clutch (Run In)

NOTE: All new clutches must be broken in (Run in) and any clutch that has not been used for approximately 60 days.

- **1.** Shut off tractor and disengage PTO.
- **2.** Disconnect driveline from the tractor PTO shaft.
- **3.** Loosen the bolts on the outside diameter of the clutch until all bolts are just loose, then tighten all bolts 1/2 turn.
- **4.** Attach the shredder to the tractor and the drive-line to the tractor PTO. Stand clear of the unit.

- **5.** Start tractor. Engage PTO clutch and run for a few seconds or until clutch visibly smokes.
- **6.** Disengage PTO. Shut off tractor. Disconnect driveline from the tractor.
- **7.** Tighten all bolts on the outside diameter of the clutch until the compression plate is tight against the housing.
- **8.** Grease the fitting on the yoke, using Shell Super Duty or an equivalent lithium grease.
- **9.** For an integral overrunning clutch, make sure clutch turns freely in one direction.

Servicing Weasler Modular Friction Clutch (Cont'd)

Removing the Driveline

- 1. Shut off tractor and disengage PTO.
- 2. Disconnect driveline from PTO shaft.
- **3.** Remove the clamp bolts attaching the clutch to the shredder's input shaft.
- **4. NOTE:** The shaft is heavy. Grasp the clutch firmly with both hands and slide off the input shaft.

Rebuilding Friction Pack

Disassembly

- 1. Positionclutchanduniversaljointassemblyon a bench so that end is accessible.
- **2.** Remove the long bolts on the outside of the housing that hold the friction pack together.
- **3.** Remove the plate(s) and all internal components. Leave the yoke/hub intact.
- 4. Discard friction discs.
- **5.** If rebuilding the overrunning clutch, refer to Rebuilding Overrunning Clutch, page 45, beginning with Step 2.

Inspection

- **6.** Inspect the steel and iron parts for wear, warp ing, or cracks, and replace if necessary.
- **7.** Inspect the yoke/hub for looseness. If there is more than .03 end play, replace.
- **8.** Clean any rust or dust from the plate surfaces with a wire brush or steel wool.

Assembly

- **9.** Into housing place one new friction disc, then separator plate, then second friction disc.
- **10.** Add the pressure plate so that the flat surface rests on the friction disc. **NOTE:** The tangs on the plate must fall into the reliefs in the housing.
- **11.** Add the disc spring so that its inside diameter contacts the fins of the pressure plate.
- **12.** Assemble the compression plate and all the long bolts. Make sure all nuts rest in their pockets.
- **13.** Tighten all long bolts to 30 lbs.-ft.

Rebuilding Overrunning Clutch

Disassembly

1. Remove the four bolts that secure the friction pack. Remove the friction pack.

- **2.** Using screwdriver and pliers, remove the retaining ring that holds the overrunning clutch together.
- **3.** Slide the collar and washer off the clutch hub, noting the orientation of the collar for reinsertion.
- 4. Remove and discard the keys and leaf springs.

Inspection

- **5.** Inspect the steel parts for wear and replace if necessary.
- **6.** Inspect the yoke/hub for looseness. If there is more than .03 end play, replace.
- **7.** Using screwdriver, scrape any hardened grease from the overrunning key pockets.

Assembly

- **8.** Using Shell Super Duty grease or equivalent, inject one grease gun pump into each key pocket. Evenly wipe two more pumps over the overrunning surface.
- **9.** Press a new leaf spring into each pocket. The ends should touch the bottom of the pockets.
- **10.** Add new keys. With one hand, hold the two keys in the pockets.
- **11.** Slide the collar onto the hub, orienting collar correctly.
- 12. Add washer.
- **13.** Install retaining ring.
- **14.** Make sure clutch spins freely and only in correct direction.
- 15. Reassemble friction pack.

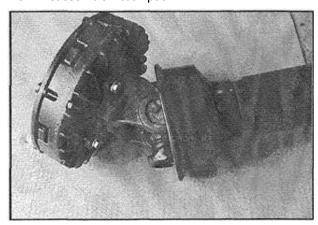


Figure 47. Weasler Modular Friction Clutch

Mounting Clutch onto Shredder

- 1. Mount and bolt the clutch hub onto the shredder input shaft. Make sure shaft and clutch grooves line up.
- **2.** Re-install any shielding that was moved or removed.
- **3.** Run the clutch before using. Refer to Breaking in the Clutch (Run In), page 44.

TROUBLE SHOOTING

The Alloway Windrow Shredder uses swinging flails to pick up and shred crop residue left in the field. It is a simple and reliable system that requires minimal maintenance.

The following table lists problems, causes, and

solutions that you may encounter. If you encounter a problem that is difficult to solve even after reading through this table, please call your local Alloway dealer. When calling, please have this manual and your unit's serial number ready.

PROBLEM	CAUSE	SOLUTION
Shredder doesn't track	Poor wheel spacing	Set wheels in center of crop row
	3 Point not set	Set 3-point hitch in non-sway postion
	Shredder not level	Level shredder (see Set Operatir Height, page 23)
	Irrigation furrows not even	Set wheels against seed bed (se Setting Outer Trailing Wheels, page 26)
Shredder doesn't follow ground contour	3 Point not set	Set 3 point in float position
Contour		See tractor manual to set Load Sensing hydraulic system
	Shredder too high	Set shredder closer to ground
	Irrigation furrows not even	Set wheels against seed bed
Shredder vibrates	Driveline doesn't telescope	Remove, disassemble, and clear telescoping joint
	Rotor out of balance	Replace damaged or broken flails and flails 180 degree opposite
		Check for missing balance weight or rebalance
Debris being thrown out from under shredder	Shredder set too low	Raise shredder
	Knives excessively worn	Replace knives
	Rubber shields missing	Replace flaps immediately
Crop residue left	Travelling too fast	Slow travel speed
	Shredder too high	Lower shredder
	Improper flails	Change flails
	Crop residue strip left in shredder center	Add center cutter or divider
Windrowing stops	Plugged Auger	Open doors, Unplug
Windrow not large enough	Auger Speed too Slow	Adjust Hydraulic Flow in tractor

ASSEMBLY

WARNING

- Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.
- Do not handle blades with bare hands. Careless or improper handling may result in serious injury.

A CAUTION

■ Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, roughsoled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.

A WARNING

- Keep hands and body away from pressurized lines. Use paper or cardboard, not hands or other 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 if 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.
- Check that all hardware is properly installed. Always tighten to torque chart specifications unless instructed otherwise in this manual.

CHECK LISTS

Assembly Continued

PRE-DELIVERY CHECK LIST **DELIVERY CHECK LIST** (DEALER'S RESPONSIBILITY) (DEALER'S RESPONSIBILITY) Show customer how to make adjustments and Inspect the equipment thoroughly after assembly to ensure it is set up properly before delivering it to the select proper PTO speed. customer. Instruct customer how to lubricate and explain importance of lubrication. The following check lists are a reminder of points to inspect. Check off each item as it is found satisfactory Point out the safety decals. Explain their or after proper adjustment is made. meaning and the need to keep them in place and in good condition. Emphasize the Check that all safety decals are installed and in increased safety hazards when instructions good condition. Replace if damaged. are not followed. Present Operator's Manual and request that Check that shields and guards are properly customer and all operators read it before operatinstalled and in good condition. Replace if ing equipment. Point out the manual safety damaged. rules, explain their meanings and emphasize the increased safety hazards that exist when Check that PTO shaft is properly installed. safety rules are not followed. Show customer how to make sure driveline is Properly attach implement to tractor and make properly installed and that spring-activated all necessary adjustments. locking pin or collar slides freely and is seated in groove on tractor PTO shaft. Check all bolts to be sure they are tight. Show customer the safe, proper procedures to Check wheel bolts for proper torque. be used when mounting, dismounting, and storing equipment. Check that all cotter pins and safety pins are Explain to customer that when equipment is properly installed. Replace if damaged. transported on a road or highway, safety devices should be used to give adequate warning to Check and grease all lubrication points operators of other vehicles. as identified in "Service, lubrication information." Explain to customer that when equipment is transported on a road or highway, a Slow Check the level of gearbox fluids before Moving Vehicle (SMV) sign should be used to delivery. Service, if required, as specified in provide adequate warning to operators of other the "Service, lubrication information." vehicles. Explain to customer that when towing on a Check that tractor hydraulic reservoir has been public road to comply with all state and local serviced and that hydraulic system and all lighting/ marking laws and to use a safety tow functions have been operated through full cylinder stroke to purge air from system. chain. Make customer aware of optional equipment After pressurizing and operating all Shredder available so that customer can make proper functions, stop tractor and make sure there choices as required. are no leaks in the hydraulic system. Follow all Point out all guards and shields. Explain their safety rules when checking for leaks. importance and the safety hazards that exist when not kept in place and in good condition.

A WARNING

■ Do not allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.

A CAUTION

- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, roughsoled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.
- Use a suitable lifting device of sufficient capacity. Use adequate personnel to handle heavy components.
- **1.** Open the crate and cartons containing the attaching components and mounting hardware.
- **2.** Use the packing list to check that all parts have been shipped.

- 3. Raise the rear of the unit.
- **4.** Place safety stands or large blocks under the frame.
- **5.** Measure the wheel spacing from the center of the unit. Mark the frame.
- **6.** Install the wheel assembly to the mounting tube (Figure 51). **If equipped with caster wheels, verify that there is enough clearance for casters to rotate without hitting each other.** Failure to do so will result in tire damage. Offset struts may be required (see Wheel Assembly parts page 64.
- 7. Tighten mounting bolts to their specified torque.



Figure 51. Wheel Assembly Installed

3-Point Units:

- **8.** Fasten floating top mast (1) to shredder, using four 1 x 6" hex bolts and top lock nuts as shown in Figure 52. Be sure mast is free to slide forward.
- **9.** Attach one upper 3-point 1 x 5" bolt, bushing, lock washer, and hex nut (2).
 - **a.** Category II: Fasten components in the lower hole in floating top mast.
 - **b. Category III:** Fasten components in the upper hole in floating top mast.
- **10.** Fasten lower 3-point.
- **11.** Fasten hoses and Quick coupler to hoses that run to Hydraulic Motor.

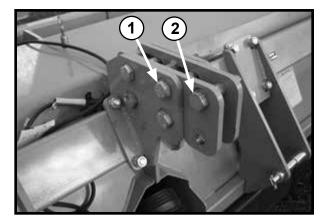


Figure 52. Floating Top Mast Installed

All Units

- **3.** Install PTO driveline by sliding the yoke with the slip clutch over the input shaft (Figure 53).
- **4.** Tighten mounting bolts to its specified torque.
- 5. Install front parking stands, using pin.

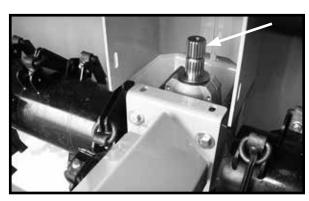


Figure 53. Gearbox Input Shaft

Assembly Continued

Install Pull-Type Hitch (Pull-type units only)

- 1. Mount hitch to frame using pins and bolts.
- 2. Install ratchet. Be sure to install retaining pins.
- **3.** Attach Ear Plate to upper tube using U-Bolts and hardware provided.
- **4.** Attach clevis to hitch, using 1-1/4" pin and 3/8 x 3-1/2" cotter pins.
- **5.** Attach tow chain to hitch. See Figure 56 for completed assembly.
- **6.** Fasten hose and Quick coupler. Attach to hoses that run to Hydraulic Motor.



Figure 54. Pull-type Hitch Installed

Install Manual Storage Tube

- **1.** Mount the tube clamp to the shredder side sheet, using two 1/4" self-tapping screws. Mounting holes are located above the bearing plate (see Figure 55).
- **2.** Place the tube in the clamp with the cap facing forward.

NOTE: Keep the Owner's Manual with the shredder at all times.



Figure 55. Manual Storage Tube Assembly

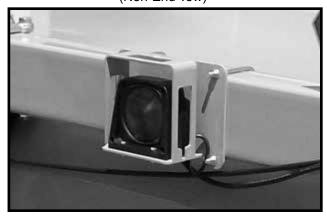
Assembly Continued

Safety Light Kit Installation (Non-End Tow)

- **1.** Remove all components from shipping carton. Make sure that all required hardware is included.
- **2.** Attach dual safety lights (Figure 59) to their bases using 1/4 NC x 1" hex bolts, washers and nuts provided. Make sure that light lenses are in the correct position in relation to direction of equipment travel: amber lenses on the outside, red lenses on the inside facing rear of shredder.
- **3.** Plug ends of wiring harness into corresponding plugs of the light units (Note: left side of wishbone harness is labeled "Left").
- **4.** Run wiring harness along top of shredder and secure with enclosed adhesive-backed clamps (5) approximately every two feet.
- **5.** Connect 7-pin connector of wiring harness to tractor and test all light functions before actual use.



Figure 58. Safety Light Kit Installed (Non-End Tow)



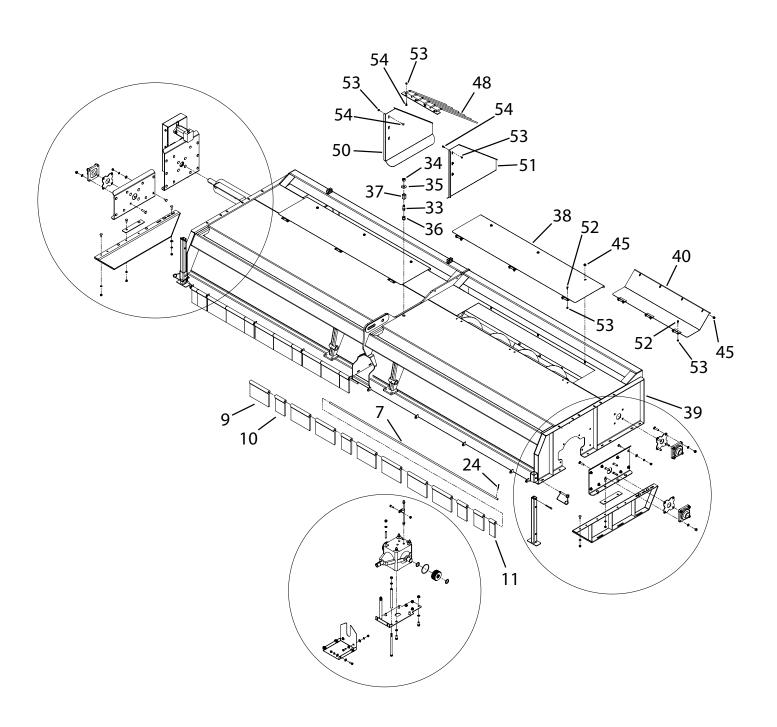




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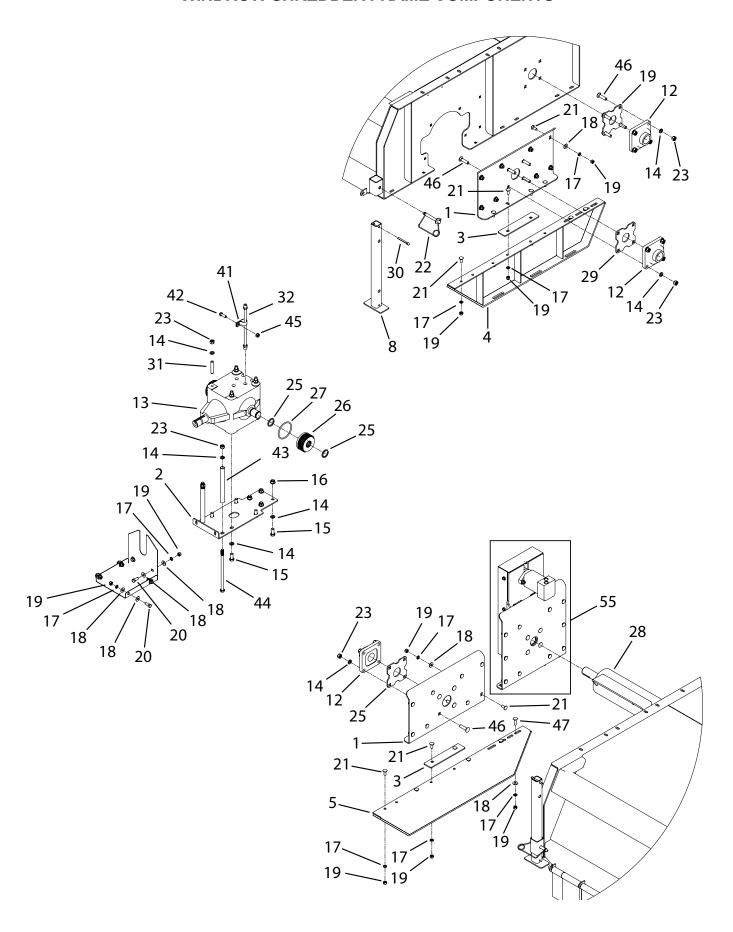
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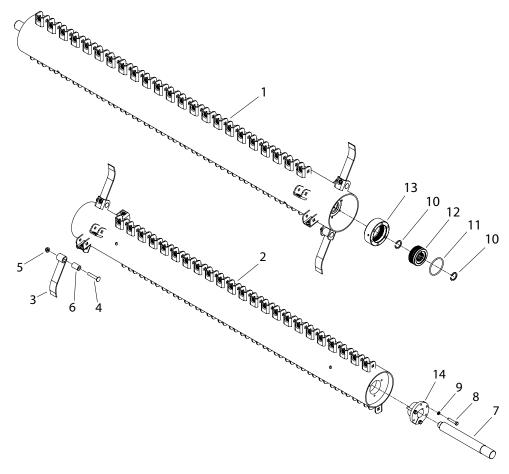
SEE NEXT PAGE FOR DETAILED VIEWS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	507-3-0023	BEARING MOUNTING PLATE	2
2	507-3-0120	BOTTOM GEARBOX PLATE	1
3	507-3-0046	SPACER PLATE - SKID	2
4	507-2-0018	SKID PLATE WELD - LH	1
5	507-2-0019	SKID PLATE WELD - RH	1
6	507-3-0121	CLUTCH SHIELD	1
7	507-3-0121	FLAP ROD - 13'	2
,		FLAP ROD - 15'	۷
	507-3-0372	FLAP ROD - 13'	
	507-3-0538		
	507-3-0394	FLAP ROD - 20'	
0	507-3-0128	FLAP ROD - 22'	2
8	507-2-0021	PARKING STAND WELD	2
9	505-3-1089	FLAP SHIELD 12"	
10	505-3-1097	FLAP SHIELD 6"	
11	505-3-0868	FLAP SHIELD 3-1/2"	
12	901-01386	BEARING - 2.19 4-BOLT ECC. LOCK	3
13	903-15575	G-BOX - SUPERIOR MODEL R800 (1:1 GEAR RATIO)	1
14	900-11015	WASHER, LOCK 5/8	31
15	900-01341	BOLT, HEX HEAD 5/8 NC X 1-1/2, GR5 ZP	12
16	900-06145	NUT, WHIZ 5/8 NC	4
17	900-11013	WASHER, LOCK 1/2	50
18	900-11015	WASHER, FLAT 1/2	42
19	900-06009	NUT, HEX HEAD 1/2 NC	48
19	900-00009	NOT, TIEX TIEAD 1/2 NC	40
20	900-01223	BOLT, HEX HEAD 1/2 NC X 1-1/2, GR5 ZP	6
21	900-01750	BOLT, CARRIAGE 1/2 NC X 1 1/4, GR5 ZP	40
22	900-42054	PIN, LOCK UP	2
23	900-06013	NUT, HEX HEAD 5/8 NC	19
24	900-23043	PIN, COTTER 3/16 X 1 1/2	2
25	900-39030	RETAINING RING 600 SERIES	4
26	500-3-0338	COUPLER	2
27	901-09126	O-RING, FLAIL COUPLER	2
28	507-2-0296	AUGER WELD - 13' WINDROW - RH DISCHARGE	1
	507-2-0311	AUGER WELD - 13' WINDROW - LH DISCHARGE	_
	507-2-0322	AUGER WELD - 15' WINDROW - CENTER DISCHARGE	
	507-2-0323	AUGER WELD - 18' WINDROW - RH DISCHARGE	
	507-2-0282	AUGER WELD - 18' WINDROW - LH DISCHARGE	
	507-2-0262	AUGER WELD - 16 WINDROW - LIT DISCHARGE AUGER WELD - 20' WINDROW - CENTER DISCHARGE	
	507-2-0250	AUGER WELD - 22' WINDROW - CENTER DISCHARGE	
29	507-3-0242	UHMW SEAL PLATE - END BEARING	3
30	900-23084	PIN, COTTER, 3/8 X 3-1/2	2
31	507-3-0630	STUD - GEARBOX	4
32	905-19224	BRAIDED DIPSTICK TUBE	1
33	507-3-0268	DIPSTICK SUPPORT BRACKET	1
34	900-06017	NUT, HEX HEAD 7/8 NC	1
35	900-11039	WASHER, FLAT 7/8	1
36	905-01189	COUPLING 1/2 NPT	1
37	507-3-0342	SPACER - DIPSTICK	1
38	507-2-0281	DOOR WELD - UPPER TROUGH	2



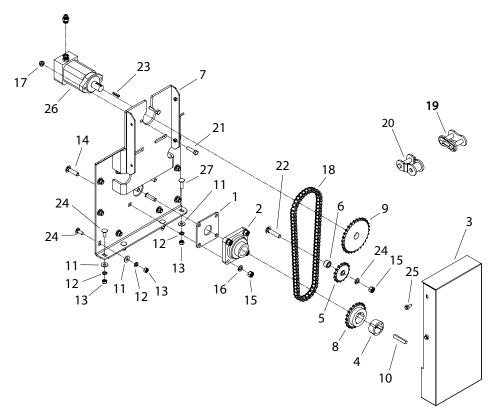
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
39	507-2-0318	BODY WELD - 13' WINDROW - GEAR DRIVE - LH	1
	507-2-0295	BODY WELD - 13' WINDROW - GEAR DRIVE - RH	
	507-2-0319	BODY WELD - 15' WINDROW - GEAR DRIVE - CENTER	
	507-2-0320	BODY WELD - 18' WINDROW - GEAR DRIVE - LH	
	507-2-0279	BODY WELD - 18' WINDROW - GEAR DRIVE - RH	
	507-2-0258	BODY WELD - 20' WINDROW - GEAR DRIVE - CENTER	
	507-2-0149	BODY WELD - 22' WINDROW - GEAR DRIVE - CENTER	
40	507-2-0290	DOOR WELD - BOTTOM TROUGH	
41	900-31045	HOSE HOLDER - 1-1/4"	1
42	900-01225	BOLT, HEX HEAD 1/2 NC X 1-1/2, GR 5 ZP	1
43	507-3-0224	SPACER TUBE - GEARBOX	2
44	900-01393	BOLT, HEX HEAD 5/8 NC X 12, GR5 ZP	2
45	900-06143	NUT, SPIRALOCK 1/2 NC	11
46	900-01788	BOLT, CARRIAGE 5/8 NC X 2-1/2, GR5 ZP	17
47	900-01752	BOLT, CARRIAGE 1/2 NC X 1 3/4, GR5 ZP	2
48	507-2-0193	DISCHARGE SPOUT - END DISCHARGE	1
	507-2-0259	DISCHARGE SPOUT - CENTER DISCHARGE	1
50	507-3-0356	SIDE PLATE - DISCHARGE CHUTE RH	1
51	507-3-0357	SIDE PLATE - DISCHARGE CHUTE LH	1
52	900-01105	BOLT, HEX HEAD 3/8 NC X 3/4, GR5 ZP	18
53	900-06139	NUT, WHIZ 3/8 NC	28
54	900-01695	BOLT, CARRIAGE 3/8 NC X 1, GR5 ZP	10
55		AUGER DRIVE COMPONENTS (SEE PAGE 49)	

FLAIL TUBE COMPONENTS



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	507-2-0299	FLAIL TUBE WELD - 13' - LH	1
	507-2-0221	FLAIL TUBE WELD - 15' - LH	
	507-2-0135	FLAIL TUBE WELD - 18' - LH	
	507-2-0075	FLAIL TUBE WELD - 20' - LH	
	507-2-0080	FLAIL TUBE WELD - 22' - LH	
2	507-2-0300	FLAIL TUBE WELD - 13' - RH	1
	507-2-0220	FLAIL TUBE WELD - 15' - RH	
	507-2-0134	FLAIL TUBE WELD - 18' - RH	
	507-2-0076	FLAIL TUBE WELD - 20' - RH	
	507-2-0079	FLAIL TUBE WELD - 22' - RH	
3	505-3-0005	CUP KNIFE - 11"	
4	900-01792	BOLT, CARRIAGE 5/8-11 X 3.50, GR5 ZP	
5	900-06145	NUT, WHIZ 5/8	
6 7	505-3-0405	BUSHING CUP KNIFE	
7	507-3-0240	STUB SHAFT - 2.25 DIA	1
8	900-02526	BOLT, HEX HEAD 1/2 NC X 2-3/4, GR5 ZP	3
9	900-11013	WASHER, LOCK 1/2	3
10	900-39030	RETAINING RING 600 SERIES	1
11	901-09126	O-RING, FLAIL COUPLER	2
12	500-3-0629	FLAIL COUPLER	1
13	500-3-0345	DRIVE SLEEVE, OUTER	1
14	903-08461	TYPE E HUB, 2-1/4 BORE	1

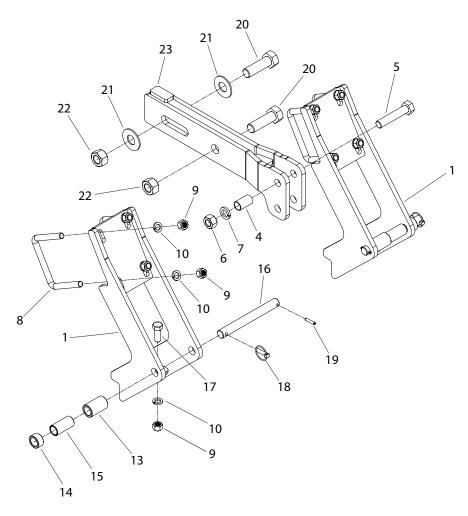
AUGER DRIVE COMPONENTS



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	500-3-0990	PLASTIC SHIELD	1
2	901-01282	BEARING - NANFS 210-31 1.9375	1
3	507-3-0543	SHIELD - AUGER	1
4	903-08450	BUSHING TAPPER LOCK 2012 - 1.93 B	1
5	903-11066	IDLER SPROCKET - 60B15H .63 BORE	1
6	507-3-0595	STANDOFF - IDLER	1
7	507-2-0280	BEARING PLATE WELD - AUGER DRIVE	1
8	903-11062	SPROCKET - 60BTL20	1
9	903-11094	SPROCKET 60B28 1-1/4 B KEYED & SS	1
10	100-3-3331	KEY - 1/2 X 1/2 X 3	1
11	900-11035	WASHER, FLAT 1/2	14
12	900-11013	WASHER, LOCK 1/2	14
13	900-06009	NUT, HEX HEAD 1/2 NC	14
14	900-01788	BOLT, CARRIAGE 5/8 NC X 2-1/2, GR5 ZP	4
15	900-06013	NUT, HEX HEAD 5/8 NC	5
16	900-11015	WASHER, LOCK 5/8	5
17	900-06143	NUT, SPIRALOCK 1/2 NC	2
18	507-3-0594	ROLLER CHAIN - #60-1 X 70 LINKS + CONN & HALF LINK	1
19	903-03062	- RS-60 CONNECTING LINK	1
20	903-03089	- OFFSET LINK #60-1	1
21	900-01229	BOLT, HEX HEAD 1/2 NC X 2, GR5 ZP	2
22	900-01790	BOLT, CARRIAGE 5/8 NC X 3, GR5 ZP	1
23	100-3-3676	KEY - 1/4 X 5/16 STEP X 1-1/2 LONG	1
24	900-01750	BOLT, CARRIAGE BOLT 1/2 NC X 1-1/4, GR5 ZP	12
25	900-03438	BOLT, WHIZ 3/8 NC X 1	4
26	904-05223	HYD MOTOR, CHAR-LYNN #1041026	1
	904-05211	- SEAL KIT, CHAR-LYNN #61258	
27	900-01752	BOLT, CARRIAGE 1/2 NC X 1-3/4	2
DN 50730431 (12/00	1)	40	

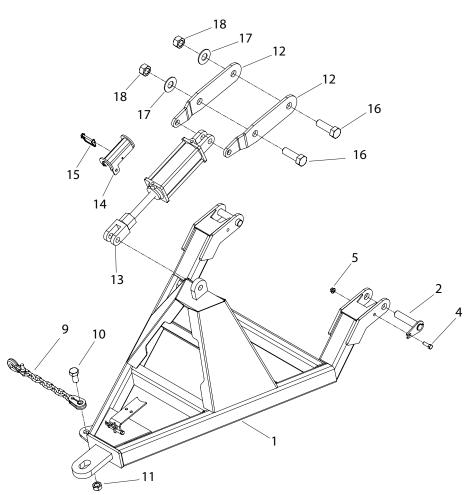
PN-50730431 (12/09)

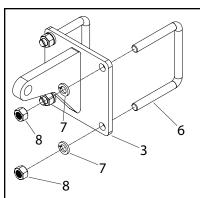
3-POINT HITCH COMPONENTS



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	507-2-0192	LOWER 3-PT HITCH WELD	2
2	507-2-0303	UPPER MAST - TOP LINK	1
3	507-2-0020	UPPER MAST PLATE WELD	1
4	200-3-0151	MAST SPACER BUSHING	1
5	900-01531	BOLT, HEX HEAD 1 NC X 5, GR5 ZP	1
6	900-06019	NUT, HEX HEAD 1 NC	1
7	900-11021	WASHER, LOCK 1	1
8	200-3-0024	U-BOLT 3/4 X 6 X 5.5 X 1.5, GR5 ZP	4
9	900-06015	NUT, HEX HEAD 3/4 NC	12
10	900-11017	WASHER, LOCK 3/4	12
11	900-06518	NUT, TOP LOCK 1-1/4 NC	2
12	900-11042	WASHER, FLAT 1-1/4	2
13	200-3-0959	SPACER - LOWER 3 PT HITCH	2
14	200-3-0960	SPACER - LOWER 3 PT HITCH	2
15	200-3-0961	BUSHING - LOWER 3 PT	2
16	200-3-0962	PIN - LOWER 3PT	2
17	900-01403	BOLT, HEX HEAD 3/4 NC X 2, GR5 ZP	4
18	900-25012	KLICK PIN - 7/16 X 2	2
19	900-29204	PIN, SPRING, SLOTTED 5/16 X 1-5/8	2
20	900-01596	BOLT, HEX HEAD 1-1/4 NC X 4, GR5 ZP	2
	507-1-0002	CARTON - 3 PT HITCH	

PULL TYPE HITCH COMPONENTS

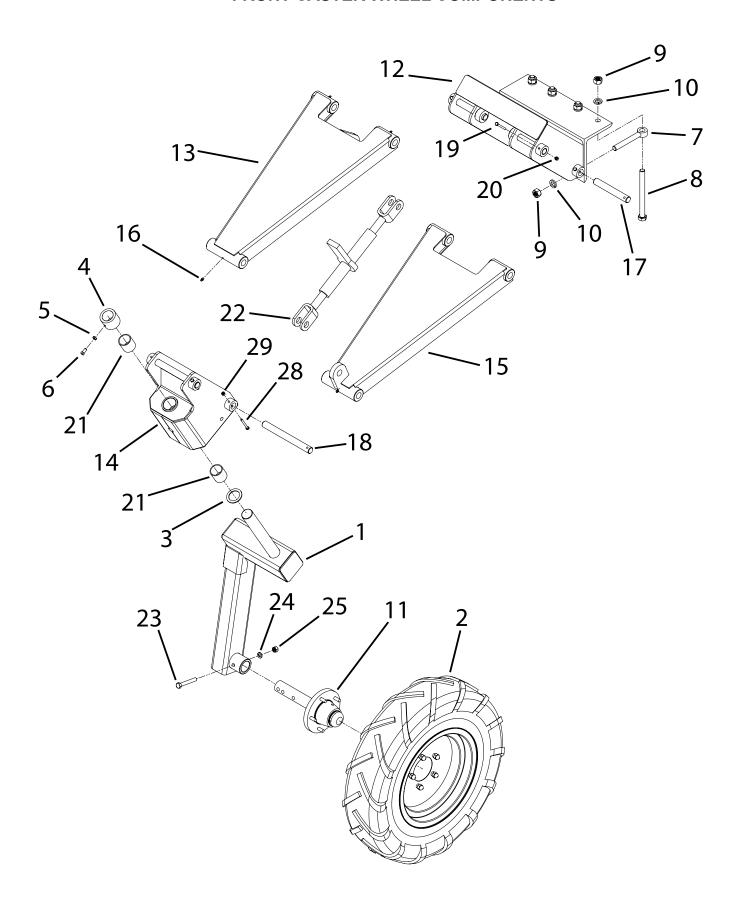




2008 & OLDER MODELS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	507-2-0027	HITCH WELD - PULL TYPE	1
2	500-2-0684	1-1/4" PIN WELDMENT	2
3	507-2-0033	TOP EAR WELD	1
4	900-01225	BOLT, HEX HEAD 1/2 NC X 1-1/2, GR5 ZP	2
5	900-06143	NUT, SPIRALOCK 1/2 NC	2
6	200-3-0024	U-BOLT 3/4 X 6 X 5.5 X 1.5, GR ZP	2
7	900-11017	WASHER, LOCK 3/4	4
8	900-06015	NUT, HEX HEAD 3/4 NC	4
9	905-07123	TOW CHAIN SAFETY 21,000 LB	1
10	900-01511	BOLT, HEX HEAD 1 NC X 2, GR5 ZP	1
11	900-06514	NUT, TOP LOCK 1 NC	1
12	507-3-0580	CYL MOUNT PLATE - PULL TYPE	2
13	905-21400	CYLINDER, 3-1/2 X 8 W/ DEPTH STOP	1
14	700-2-0159	CYLINDER STOP	1
15	900-42055	LOCK PIN	
16	900-01596	BOLT, HEX HEAD 1-1/4 X 4 NC, GR5 ZP	2
17	900-11042	WASHER, FLAT 1-1/4	2
18	900-06518	NUT, TOP LOCK 1-1/4 NC	2
	507-1-0003	CARTON - PULL TYPE HITCH	

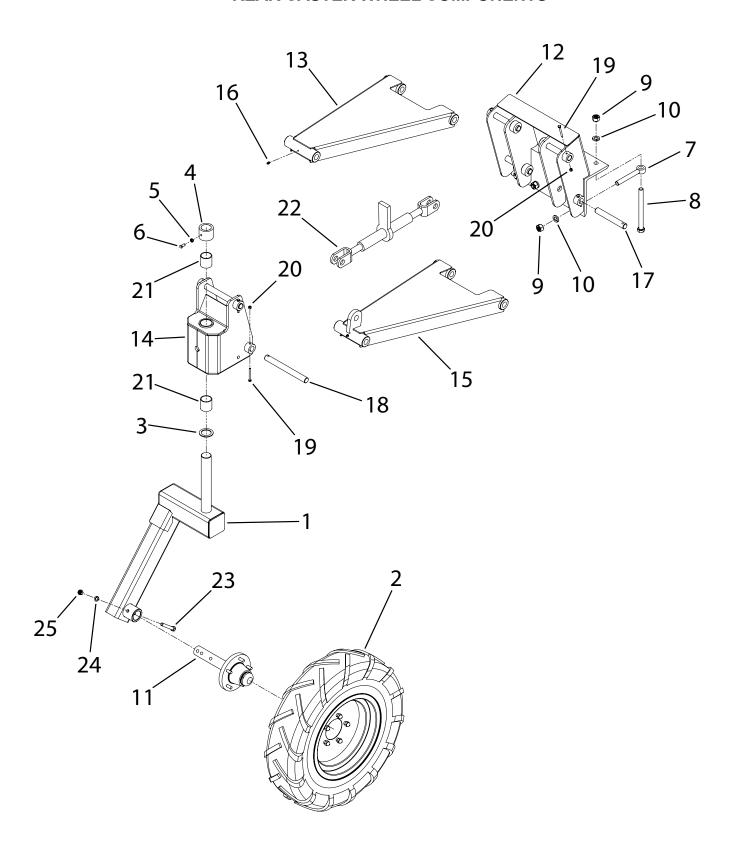
FRONT CASTER WHEEL COMPONENTS



FRONT CASTER WHEEL COMPONENTS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	507-2-0103	LOWER CASTER WELDMENT	1
2	500-2-0157	TIRE & RIM ASSEMBLY RH	1
	500-2-0158	TIRE & RIM ASSEMBLY LH	
	905-09078	- RIM, 15" X 6" X 5 BOLT	
	905-09100	- TIRE, 7.6 X 15 TRCT 10 PLY	
3	901-01259	THRUST BEARING	1
4	500-3-0928	COLLAR	1
5	900-06270	NUT, JAM 3/8	1
6	900-16031	SCREW, SET, SQUARE HEAD 3/8-16 X 3/4	1
7	900-03463	BOLT, EYE 3/4, GR5 ZP	4
8	900-01437	BOLT, HEX HEAD 3/4 NC X 8-1/2, GR5 ZP	4
9	900-06015	NUT, HEX HEAD 3/4 NC	8
10	900-11017	WASHER, LOCK 3/4	8
11	500-2-0161	HUB & SPINDLE ASSEMBLY	1
12	507-2-0105	FRONT CASTER MOUNT WELD	1
13	507-2-0101	PARALLEL LINK ARM	1
14	507-2-0028	UPPER CASTER WELDMENT	1
15	507-2-0102	LOWER PARALLEL LINK ARM	1
16	905-15024	ZERK, STRAIGHT 1/4-28	7
17	507-3-0179	PIN - CASTER WHEEL LINKAGE	4
18	507-3-0180	LONG PIN - CASTER WHEEL LINKAGE	2
19	900-01021	BOLT, HEX HEAD 1/4 NC X 2 1/2, GR5 ZP	6
20	900-06496	NUT, TOP LOCK 1/4 NC	6
21	901-01261	OILITE BUSHING	2
22	905-23014	RATCHET JACK HEAVY DUTY	1
23	900-01241	BOLT, HEX HEAD 1/2 X 3-1/2 NC, GR ZP	1
24	900-11013	WASHER, LOCK 1/2	1
25	900-06009	NUT, HEX 1/2 NC	1
	507-2-0106	FRONT CASTER WHEEL ASSY - INCLUDES: #1 - #25	
	507-2-0104	CASTER WHEEL LINKAGE ASSEMBLY - FRONT - INCLUDES: #12 - #22	

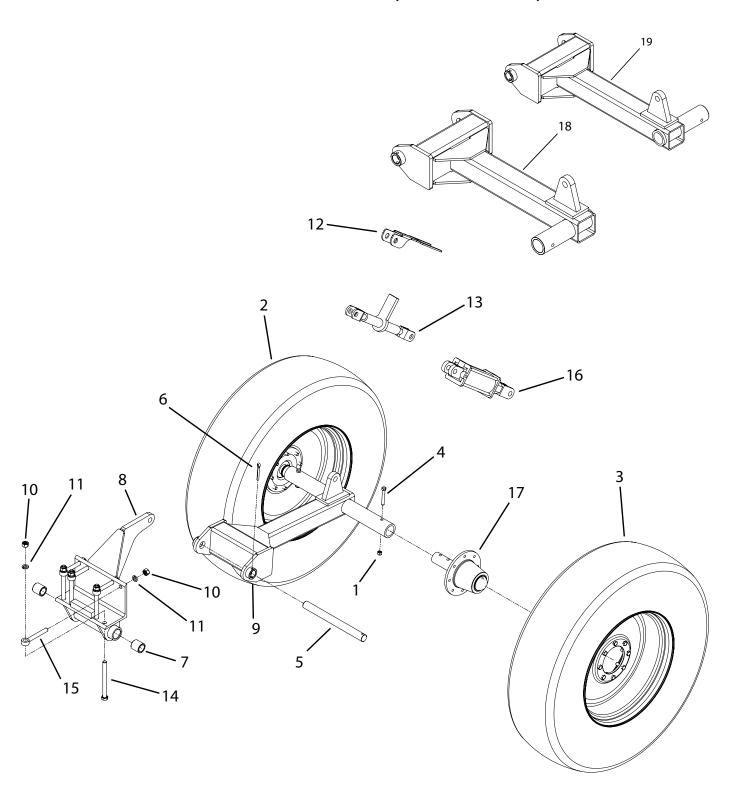
REAR CASTER WHEEL COMPONENTS



REAR CASTER WHEEL COMPONENTS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	507-2-0103	LOWER CASTER WELDMENT	1
2	500-2-0157	TIRE & RIM ASSEMBLY RH	1
	905-09078	- RIM, 15" X 6" X 5 BOLT	
	905-09100	- TIRE, 7.6 X 16 TRCT 10 PLY	
3	901-01259	THRUST BEARING	1
4	500-3-0928	COLLAR	1
5	900-06270	NUT, JAM 3/8	1
6	900-16031	SCREW, SET, SQUARE HEAD 3/8-16 X 3/4	1
7	900-03463	BOLT, EYE 3/4 NC, GR5 ZP	4
8	900-01437	BOLT, HEX HEAD 3/4 NC X 8-1/2, GR5 ZP	4
9	900-06015	NUT, HEX HEAD 3/4 NC	8
10	900-11017	WASHER, LOCK 3/4	8
11	500-2-0161	HUB & SPINDLE ASSEMBLY	1
12	507-2-0099	REAR CASTER MOUNT WELD	1
13	507-2-0101	PARALLEL LINK ARM	1
14	507-2-0028	UPPER CASTER WELDMENT	1
15	507-2-0102	LOWER PARALLEL LINK ARM	1
16	905-15024	ZERK, STRAIGHT 1/4-28	7
17	507-3-0179	PIN - CASTER WHEEL LINKAGE	4
18	507-3-0180	LONG PIN - CASTER WHEEL LINKAGE	2
19	900-01021	BOLT, HEX HEAD 1/4 NC X 2 1/2, GR5 ZP	6
20	900-06496	NUT, TOP LOCK 1/4 NC	6
21	901-01261	OILITE BUSHING	2
22	905-23014	RATCHET JACK HEAVY DUTY	1
23	900-01241	BOLT, HEX HEAD 1/2 NC X 3-1/2, GR5 ZP	1
24	900-11013	WASHER, LOCK 1/2	1
25	900-06009	NUT, HEX HEAD 1/2 NC	1
	507-2-0107	REAR CASTER WHEEL ASSY - INCLUDES: #1 - #34	-
	507-2-0100	CASTER WHEEL LINKAGE ASSEMBLY - REAR - INCLUDES: #21 - #31	

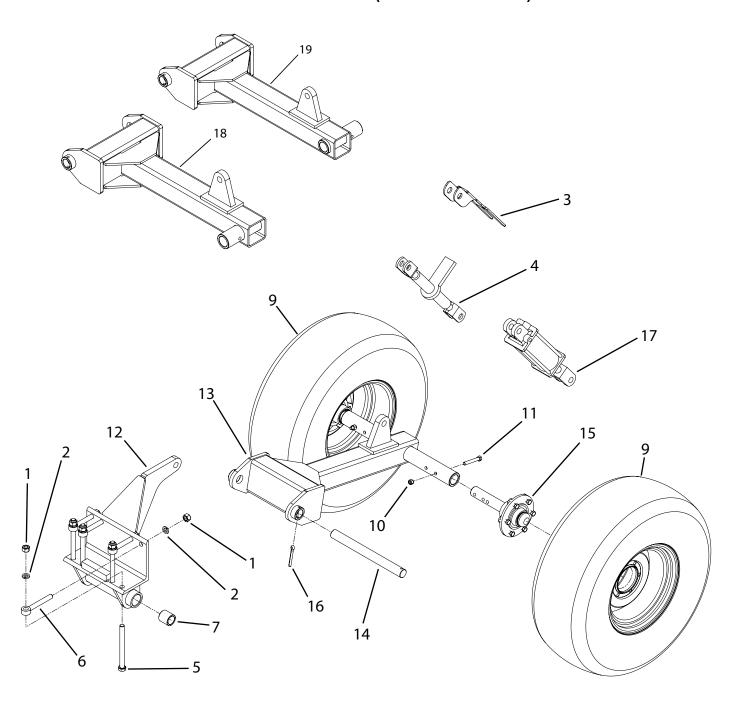
RIGID STRUT - DUAL (LARGE WHEELS)



RIGID STRUT - DUAL (LARGE WHEELS)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	900-06504	NUT, TOP LOCK 1/2 NC	2
2 3	700-2-0168	TIRE & RIM ASSEMBLY RH	1
3	700-2-0167	TIRE & RIM ASSEMBLY LH	1
	905-09127	- RIM, 24" X 10" X 8 BOLT	
	905-09130	- TIRE, 12.4 X 24 8 PLY R1	
4	900-01241	BOLT, HEX HEAD 1/2 NC X 3.5, GR5 ZP	2
5	500-3-1328	PIN, PIVOT	1
6	900-23084	PIN, COTTER 3/8 X 3-1/2	1
7	500-3-1151	BUSHING	2
8	507-2-1046	MOUNTING ANGLE WELDMENT- REAR STRUT	1
9	507-2-0182	REAR STRUT WELDMENT - DUAL 30" - 36"	1
	507-2-0181	REAR STRUT WELDMENT - DUAL 22" - 26"	
10	900-06015	NUT, HEX HEAD 3/4 NC	8
11	900-11017	WASHER, LOCK 3/4	8
12	500-3-2202	RACHET JACK SUPPORT BRACKET	1
13	905-23014	RATCHET JACK HEAVY DUTY	1
14	900-01437	BOLT, HEX HEAD 3/4 NC X 8-1/2, GR5 ZP	4
15	900-03463	BOLT, EYE 3/4 NC, GR5 ZP	4
16	905-21398	CYLINDER, 3-3/4 X 8R BLACK	1
	905-21405	- SEAL KIT, 3-3/4	
	905-21290	CYLINDER, 3-1/2 X 8R BLACK	
	905-21371	- SEAL KIT, 3-1/2	
17	500-2-0165	HUB & SPINDLE ASSEMBLY	1
18	507-2-0187	REAR STRUT WELD - SINGLE RH	
19	507-2-0188	REAR STRUT WELD - SINGLE LH	

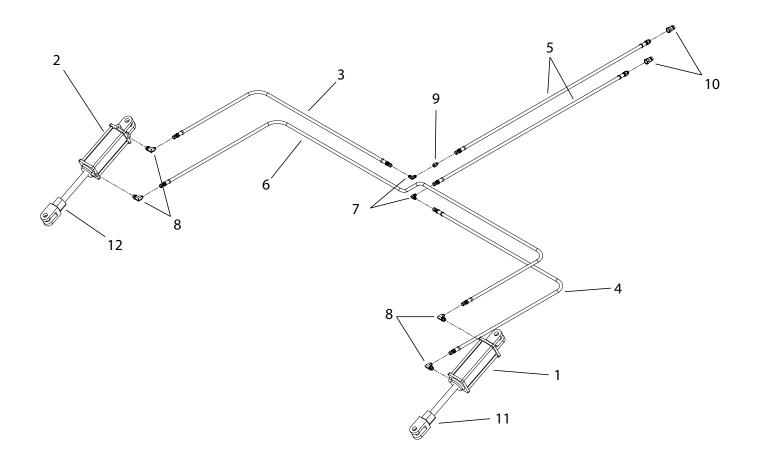
RIGID STRUT - DUAL (MEDIUM WHEELS)



RIGID STRUT - DUAL (MEDIUM WHEELS)

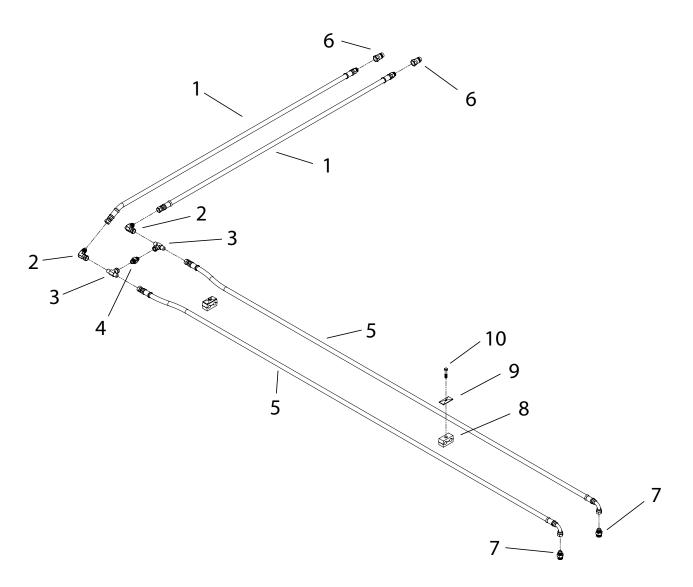
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	900-06015	NUT, HEX HEAD 3/4 NC	8
2	900-11017	WASHER, LOCK 3/4	8
3	500-3-2202	RACHET JACK SUPPORT BRACKET	1
4	905-23014	RATCHET JACK HEAVY DUTY	1
5	900-01437	BOLT, HEX HEAD 3/4 NC X 8-1/2, GR5 ZP	4
6	900-03463	BOLT, EYE 3/4 NC, GR5 ZP	4
7	500-3-1151	BUSHING	2
9	905-09181	TIRE & RIM ASSEMBLY	1
	905-09179	- RIM, 16" X 10" X 6 BOLT	
	905-19180	- TIRE, 12.5 X 16	
10	900-06504	NUT, TOP LOCK 1/2 NC	2
11	900-01241	BOLT, HEX HEAD 1/2 NC X 3-1/2, GR5 ZP	2
12	507-2-1046	MOUNTING ANGLE WELDMENT - REAR STRUT	1
13	507-2-0083	REAR STRUT WELD - DUAL 22" - 26"	1
	507-2-0093	REAR STRUT WELD - DUAL 30" - 36"	
14	500-3-1328	PIN, PIVOT	1
15	200-2-2344	HUB & SPINDLE ASSEMBLY	1
16	900-23084	PIN, COTTER 3/8 X 3-1/2	1
17	905-21398	CYLINDER, 3-3/4 X 8R BLACK	1
	905-21405	- SEAL KIT, 3-3/4	
	905-21290	CYLINDER, 3-1/2 X 8R BLACK	1
	905-21371	- SEAL KIT, 3-1/2	
18	507-2-0184	REAR STRUT WELD - SINGLE RH	
19	507-2-0186	REAR STRUT WELD - SINGLE LH	

HYDRAULIC PLUMBING STRUT COMPONENTS



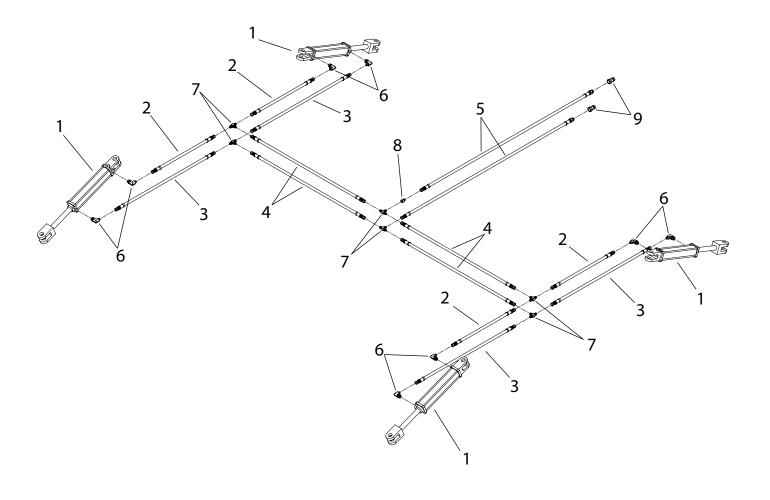
ITEM NO.	PART NUMBER	DESCRIPTION		QTY.
1	905-21290	HYDRAULIC CYLINDER - 3.5 X 8R		1
2	905-21371 905-21398 905-21405	 SEAL KIT, 3-1/2 HYDRAULIC CYLINDER - 3.75 X 8R SEAL KIT, 3-3/4 		1
3	905-19194	HOSE, 3/8", 6FJIC X 6FJIC	90" LENGTH	1
4 5 6 7 8	905-19193 905-19210 905-19171 905-03113 905-03114	HOSE, 3/8", 6FJIC X 6FJIC HOSE, 3/8", 6FJIC X 8MORBSVL HOSE, 3/8", 6FJIC X 6FJIC ELBOW 90, 6MJIC X 6MJIC ELBOW 90, 6MJIC X 8MORB	106" LENGTH 120" LENGTH 193" LENGTH	1 2 1 2 4
9 10 11 12	905-03220 905-19126 905-21305 905-21407	RESTICTOR 1/16" 6FJIC X 6MJIC QUICK COUPLER DEPTH STOP NUT, SMALL MECHANICAL DEPTH STOP NUT, LARGE MECHANICAL		1 2 1 1
	900-03463 900-01437 900-06015 900-11017	BOLT, EYE 3/4 NC X 6 BOLT, HEX 3/4 NC X 8-1/2 NUT, HEX 3/4 NC WASHER, LOCK 3/4		8 8 16 16
	507-1-0017	HYDRAULIC HOSE KIT		

HYDRAULIC PLUMBING AUGER COMPONENTS



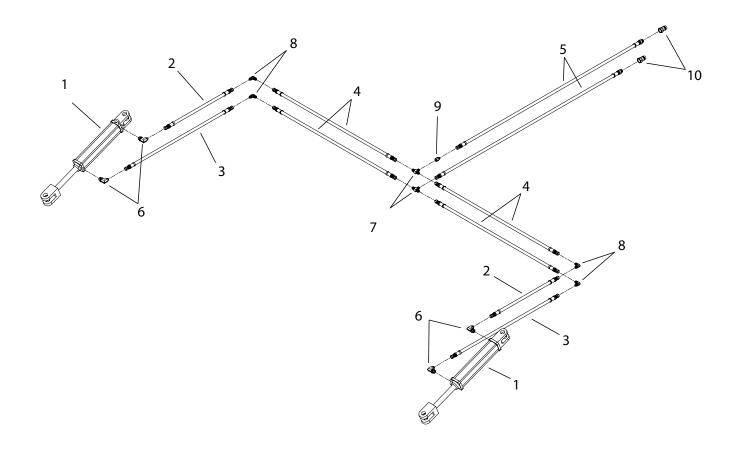
ITEM NO.	PART NUMBER	DESCRIPTION		QTY.
1	905-19211	1/2 HOSE, 8MORB X 8FJIC x 120" (3 PT)		2
	905-19233	1/2 HOSE, 8MORB X 8FJIC x 180" (Pull Type)		2
2	905-03195	ELBOW 90, 8MJIC x 8FJIC		2
3	905-03246	TEE, 8FJIC x 8MJIC x 8MJIC		2
4	905-03247	CHECK VALVE, 8MJIC		1
5	905-19250 905-19251 905-19249 905-19252 905-19253	(13') 1/2 HOSE, 8FJIC X 8FJIC(90°) (15') 1/2 HOSE, 8FJIC X 8FJIC(90°) (18') 1/2 HOSE, 8FJIC X 8FJIC(90°) (20') 1/2 HOSE, 8FJIC X 8FJIC(90°) (22') 1/2 HOSE, 8FJIC X 8FJIC(90°)	94" LENGTH 112" LENGTH 124" LENGTH 144" LENGTH 160" LENGTH	2
6 7 8 9 10	905-19126 905-03121 900-31069 900-31068 900-02356	QUICK COUPLER ADAPTER, 10MORB X 8MJIC CLAMP BODY COVER PLATE, CLAMP BODY BOLT, HEX HEAD 5/16 X 1-3/4, GR5 ZP		2 2 2 2 2

HYDRAULIC PLUMBING CASTER WHEELS 2 FRONT - 2 REAR



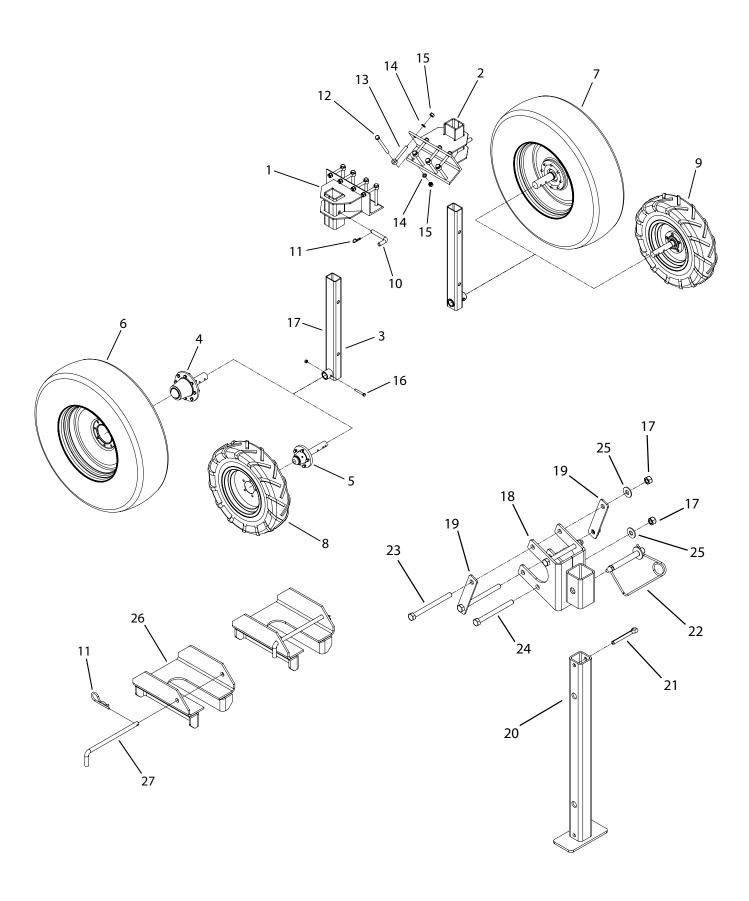
ITEM NO.	PART NUMBER	DESCRIPTION		QTY.
1	905-21390	HYDRAULIC CYLINDER, TIE ROD 2 X 10		4
		- SEAL KIT, 2		
2	905-19197	HOSE, 3/8", 6FJIC X 6FJIC	60" LENGTH	4
3	905-19142	HOSE, 3/8", 6FJIC X 6FJIC	70" LENGTH	4
4	905-19194	HOSE, 3/8", 6FJIC X 6FJIC	90" LENGTH	4
5	905-19210	HOSE, 3/8", 6FJIC X 8MORBSVL	120" LENGTH	2
6	905-03114	ELBOW, 90° 6MJIC X 8MORB		8
7	905-03112	TEE, 6MJIC X 6MJIC X 6MJIC		6
8	905-03220	RESTRICTOR, 6FJIC X 6MJIX, 1/16" HOLE		1
9	905-19126	QUICK COUPLER, FEMALE 8MORB		2

HYDRAULIC PLUMBING CASTER WHEELS 2 REAR



ITEM NO.	PART NUMBER	DESCRIPTION		QTY.
1	905-21390	HYDRAULIC CYLINDER, TIE ROD 2 X 10		4
		- SEAL KIT, 2		
2	905-19197	HOSE, 3/8", 6FJIC X 6FJIC	60" LENGTH	2
3	905-19142	HOSE, 3/8", 6FJIC X 6FJIC	70" LENGTH	2
4	905-19194	HOSE, 3/8", 6FJIC X 6FJIC	90" LENGTH	4
5	905-19210	HOSE, 3/8", 6FJIC X 8MORBSVL	120" LENGTH	2
6	905-03114	ELBOW, 90° 6MJIC X 8MORB		4
7	905-03112	TEE, 6MJIC X 6MJIC X 6MJIC		2
8	905-03113	ELBOW, 90° 6MJIC X 6MJIC		4
9	905-03220	RESTRICTOR, 6FJIC X 6MJIX, 1/16" HOLE		1
10	905-19126	QUICK COUPLER, FEMALE 8MORB		2

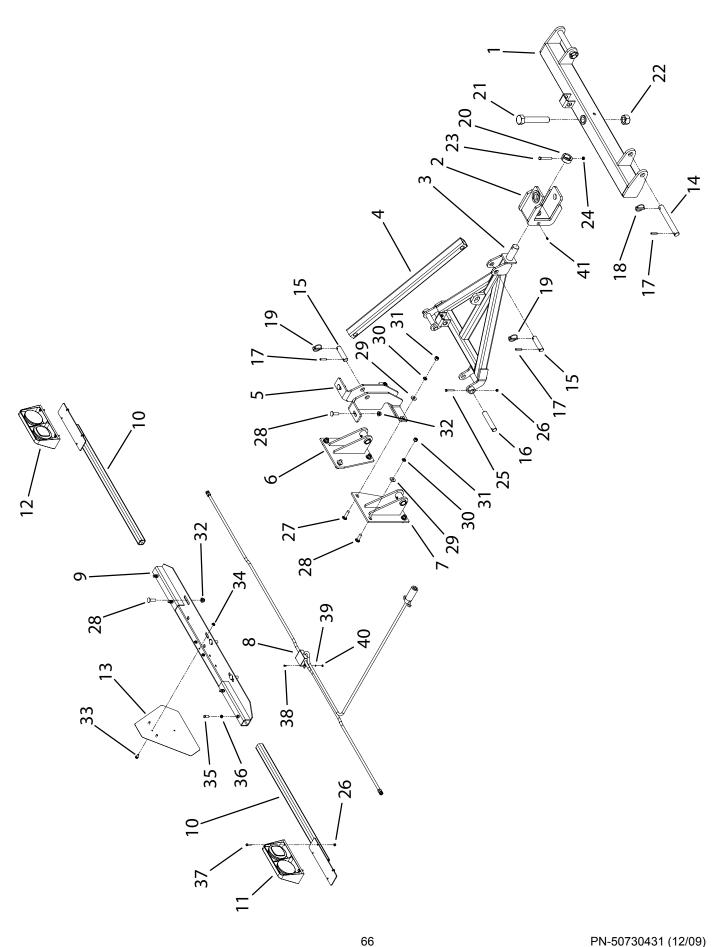
END TRANSPORT STRUT COMPONENTS



END TRANSPORT STRUT COMPONENTS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	507-2-0267	MOUNT WELD - REAR	1
2	507-2-0268	MOUNT WELD - FRONT	1
3	507-2-0269	LOWER STRUT WELDMENT	2
4	700-2-0165	HUB & SPINDLE ASSEMBLY (8-BOLT)	2
5	500-2-0161	HUB & SPINDLE ASSEMBLY (5-BOLT)	2
6	700-2-0168	TIRE & RIM ASSEMBLY RH - 12.4 X 24 (8-BOLT)	1
7	700-2-0167	TIRE & RIM ASSEMBLY LH - 12.4 X 24 (8-BOLT)	1
	905-09127	- RIM, 24" X 10" X 8 BOLT	
	905-09130	- TIRE, 12.4 X 24 8 PLY R1	
8	500-2-0157	TIRE & RIM ASSEMBLY RH - 7.6 X 15 (5-BOLT)	1
9	500-2-0158	TIRE & RIM ASSEMBLY LH - 7.6 X 15 (5-BOLT)	1
	905-09078	- RIM, 15" X 6" X 5 BOLT	
	905-09100	- TIRE, 7.6 X 15 TRCT 10 PLY (TITAN P/N: 4TG338)	
10	507-3-0496	PIN - END TRANSPORT HITCH	2
11	900-25007	PIN - HAIRCLIP 3/16, #6, ZP	4
12	900-01437	BOLT, HEX HEAD 3/4 X 8-1/2, GR5 ZP	8
13	900-03463	BOLT, EYE 3/4 X 6, GR5 ZP	8
14	900-11017	WASHER, LOCK 3/4	16
15	900-06015	NUT, HEX HEAD 3/4 NC	16
16	900-01241	BOLT, HEX HEAD 1/2 X 3-1/2, GR5 ZP	2
17	900-06504	NUT, TOP LOCK 1/2 NC	6
18	507-2-0271	STAND MOUNT	1
19	507-3-0502	STRAP - SUPPORT	2
20	507-2-0021	PARKING STAND WELD	1
21	900-23084	PIN, COTTER 3/8 X 3-1/2	1
22	900-42054	PIN, CLEVIS, SNAP LOCK 5/8 X 4	1
23	900-01253	BOLT, HEX HEAD 1/2 X 6, GR5 ZP	2
24	900-01251	BOLT, HEX HEAD 1/2 X 5-1/2, GR5 ZP	2
25	900-11035	WASHER, FLAT 1/2	4
26	507-2-0191	CASTER LOCK WELD	2
27	507-3-0358	PIN - CASTER LOCK	2

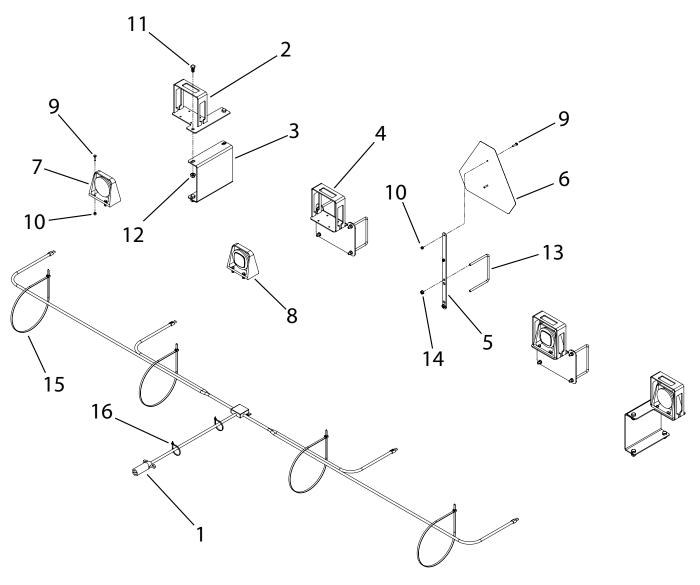
END TRANSPORT FRAME COMPONENTS



END TRANSPORT FRAME COMPONENTS

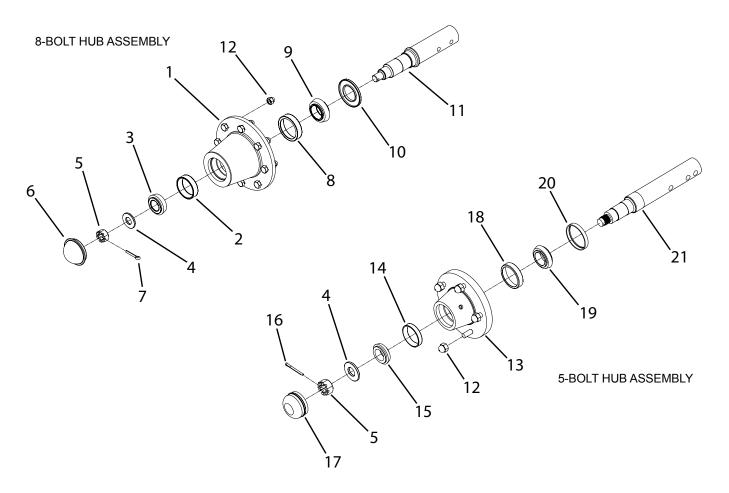
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	507-2-0179	3PT BRACKET WELD	1
2	507-2-0177	PIVOT TUBE WELD	1
3	507-2-0174	HITCH WELD	1
4	507-3-0329	SUPPORT TUBE	1
5	507-2-0171	UPPER MOUNT WELD	1
_			
6	507-2-0173	MOUNTING PLATE ASSY RH	1
7	507-2-0172	MOUNTING PLATE ASSY LH	1
8	904-01275	LIGHT WIRE HARNESS	1
9	507-2-0262	LIGHT MOUNT WELD	1
10	507-2-0263	SUPPOR TUBE - LIGHT KIT	2
11	904-01150	DUAL LAMP, RH	1
12	904-01149	DUAL LAMP, LH	1
13	500-3-1696	SMV SIGN	1
14	507-3-0338	PIN - 3PT	2
15	507-3-0337	PIN - SUPPORT TUBE	2
16	507-3-0335	PIN - HITCH	2
17	900-29204	PIN, ROLL 5/16 X 1-5/8	4
18	900-25012	PIN, KLIK 7/16 X 1-3/4	2
19	900-25010	PIN, KLIK 1/4 X 1-1/4	2
20	507-3-0334	COLLAR PIVOT TUBE	1
21	900-01607	BOLT, HEX HEAD 1-1/4 NC X 7, GR5 ZP	1
22	900-06518	NUT, TOP LOCK 1-1/4 NC	1
23	900-01125	BOLT, HEX HEAD 3/8 NC X 3, GR5 ZP	1
24	900-06500	NUT, TOP LOCK 3/8 NC	1
25	900-01017	BOLT, HEX HEAD 1/4 NC X 2, GR5 ZP	2
26	000 06406	NUT TOP LOCK 4 /4 NG	4.0
26	900-06496	NUT, TOP LOCK 1/4 NC	10
27	900-01753	BOLT, CARRIAGE 1/2 NC X 2, GR5 ZP	2
28	900-01752	BOLT, CARRIAGE 1/2 NC X 1-3/4, GR5 ZP	11
29	900-11035	WASHER, FLAT 1/2	8
30	900-11013	WASHER, LOCK 1/2	8
31	900-06009	NUT, HEX HEAD 1/2 NC	8
32	900-06143	NUT, SPIRALOCK 1/2 NC, GR8	5
33	900-03419	BOLT, SPIRALOCK 5/16 NC X 3/4, GR5 ZP	5 3
34	900-06137	NUT, SERRATED 5/16 NC	3
35	900-16033	SCREW, SET, SQUARE HEAD 3/8 NC X 1, CUP POINT	4
36	000 06270	NUT 1AM 2/0 NC	4
36 37	900-06270	NUT, JAM 3/8 NC	4
37	900-01009	BOLT, HEX HEAD 1/4 NC X 1, GR5 ZP	8
38	900-19060	SCREW, MACHING, PAN HEAD #8-32 X 1/2	2
39 40	900-11006	WASHER, LOCK #8	2
40	900-06192	NUT, LOCK #8-32	2
41	905-15024	ZERK, STRAIGHT 1/4-28	4

LIGHT KIT COMPONENTS



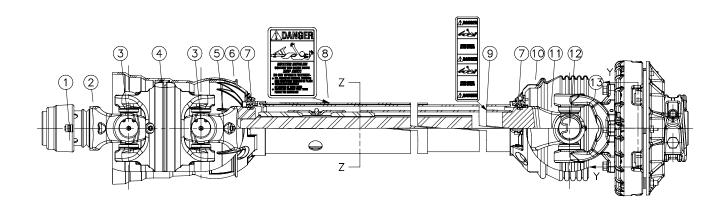
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	507-3-0218	WIRE HARNESS - (13' - 18')	1
	507-3-0237	WIRE HARNESS - (20')	
	507-3-0238	WIRE HARNESS - (22')	
2	507-2-0225	SIDE LIGHT BRACKET	2
3	507-3-0628	SPACER PLATE - SIDE LIGHT BRACKET	2
4	507-2-0108	LIGHT BRACKET	2
5	500-3-2091	SMV MOUNT	1
6	500-3-1696	SMV SIGN	1
7	904-01154	AMBER LAMP	2
8	904-01155	RED LAMP	2
9	900-01009	BOLT, HEX HEAD 1/4 NC X 1, GR5 ZP	16
10	900-06496	NUT, TOP LOCK 1/4 NC	16
11	900-01221	BOLT, HEX HEAD 1/2 NC X 1, GR5 ZP	8
12	900-06143	NUT, SPIRALOCK 1/2 NC	8 8 5
13	900-35000	U-BOLT, 3/8 NC X 6 X 5, GR5 ZP	5
14	900-06139	NUT, SERRATED 3/8 NC	2
15	905-07128	CABLE TIE, PLASTIC, 36" LONG	4
16	905-07127	CABLE TIE, PLASTIC, 7.5" LONG	2
		00	DN 50720424 (42/00)

HUB & SPINDLE ASSEMBLY COMPONENTS



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	905-09136	HUB W/ CUPS (8-BOLT)	1
2	901-01324	BEARING CUP	1
3	901-01326	BEARING CONE	1
4	905-09067	WASHER, 7/8 SAE	1
5	900-06060	NUT, HEX HEAD, SLOTTED 7/8 NF	1
6	905-09135	HUB CAP	1
7	900-23064	PIN, COTTER 1/2 X 2	1
8	901-01152	BEARING CUP	1
9	901-01325	BEARING CONE	1
10	901-09215	SEAL	1
11	700-3-0143	SPINDLE	1
12	905-09011	NUT, HEX HEAD, WHEEL 1/2 NF	8
13	905-09003	HUB W/ CUPTS (5-BOLT)	1
14	901-01016	BEARING CUP	1
15	901-01015	BEARING CONE	1
16	900-23043	PIN, COTTER 3/16 X 1-1/2	1
17	905-09009	CAP, DUST	1
18	901-01022	BEARING CUP	1
19	901-01023	BEARING CONE	1
20	901-09002	SEAL, OIL TRANSCOM	1
21	500-3-0136	SPINDLE	1

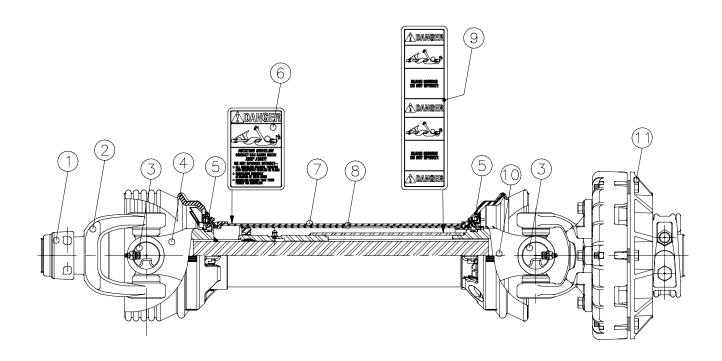
WEASLER PULL-TYPE PTO SHAFT WITH TORQ MASTER CLUTCH



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	903-18106	SSL / AUTO-LOK REPAIR KIT 1-3/8"	1
	903-18326	SSL / AUTO-LOK REPAIR KIT 1-3/4"	1
2	903-18327	WWCV AUTO-LOK YOKE ASSEMBLY 1-3/8"	1
	903-18121	WWCV AUTO-LOK YOKE ASSEMBLY 1-3/4"	1
3	903-18328	AB8/AW24EBL CROSS & BEARING KIT	2
4	903-18329	WWCV CENTER HOUSING	1
5	903-18330	WWCV YOKE & SHAFT (1.69-20 SPLINE)	1
6	903-18057	OUTER GUARD	1
7	903-17774	GUARD REPAIR KIT	2
8	903-17455	SAFETY SIGN	1
9	903-17456	SAFETY SIGN	1
10	903-17910	INNER GUARD	1
11	903-17909	YOKE, TUBE, & SLIP SLEEVE	1
12	903-17239	55E CROSS & BEARING KIT	1
13	903-18145	OVER RUNNING FRICTION CLUTCH ASSEMBLY - 18303	1
	903-18283	GUARD SET	1
	903-18315 903-18314	CV SLIP CLUTCH PTO, 1-3/8", COMPLETE CV SLIP CLUTCH PTO, 1-3/4", COMPLETE	

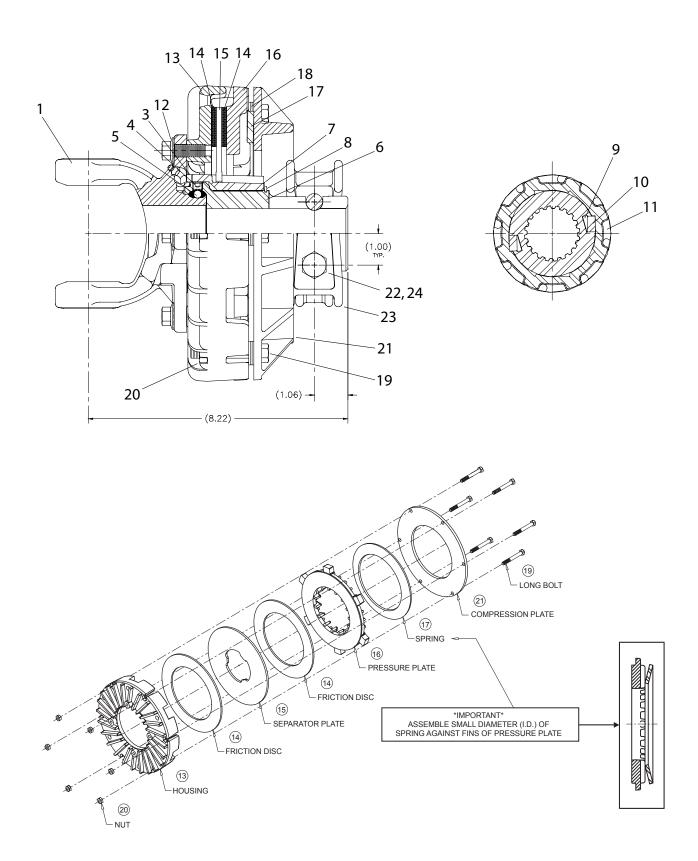
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WEASLER 2-POINT & 3-POINT PTO SHAFT WITH TORQ MASTER CLUTCH



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	903-18323	SSL / AUTO-LOK REPAIR KIT, 1-3/8"	1
	903-17772	SSL / AUTO-LOK REPAIR KIT, 1-3/4"	1
2	903-17418	SAFETY SLIDE LOCK YOKE ASSEMBLY	1
3	903-17239	55E CROSS & BEARING KIT	2
4	903-17613	YOKE & SHAFT (1.69-20 SPLINE)	
5	903-17774	GUARD REPAIR KIT (NOT SHOWN)	2
6	903-17455	SAFETY SIGN	1
7	903-18319	OUTER GUARD	1
8	903-18320	INNER GUARD	1
9	903-17456	SAFETY SIGN	1
10	903-18321	YOKE, TUBE, & SLIP SLEEVE	1
11	903-18145	OVER RUNNING FRICTION CLUTCH ASSEMBLY - 18303	1
	903-18313 903-18335	SLIP CLUTCH PTO, 1-3/8", COMPLETE SLIP CLUTCH PTO, 1-3/4", COMPLETE	

WEASLER TORQMASTER CLUTCH COMPONENTS



WEASLER TORQMASTER CLUTCH COMPONENTS

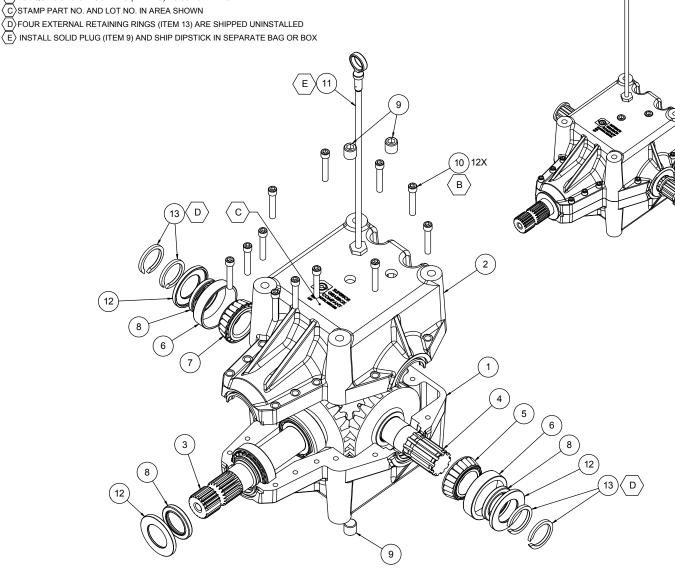
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	903-18345	YOKE	1
2	903-18346	OVERRUNNING REPAIR KIT, (2, 6, 7, 8, 9) {Not Shown}	
3	903-18347	WAVE SPRING	1
4	903-18154	SET SCREW, .315-18 X .25 LG	1
5	903-18348	BALL, Ø.250, GRADE 5	31
6	903-18349	OVERRUNNING INNER HUB	1
7	903-18167	WASHER	1
8	903-18168	RETAINING RING	1
9	903-18352	LEAF SPRING	2
10	903-18350	OVERRUNNING KEY	2
11	903-18351	OVERRUNNING HUB	1
12	900-03055	BOLT, M10 X 1.50 X 25mm LG, CLASS 10.9	4
13	903-18341	HOUSING	1
14	903-18281	FRICTION DISC	2
15	903-18174	SEPARATOR PLATE	1
16	903-18342	PRESSURE PLATE	1
17	903-18343	SPRING	1
18	900-11236	WASHER, M8 NARROW	24
19	900-03053	BOLT, M8 X 1.25 X .60 LG, CLASS 10.9	6
20	900-06548	NUT, M8 X 1.25	6
21	903-18344	COMPRESSION PLATE	1
22	903-03098	BOLT, .500-13 X 3.50 LG., GRADE 8	2
23	903-18340	HUB CLAMP	2
24	900-06549	NUT, LOCK .500-13, GRADE G	2
	903-18336	CLAMP - INCLUDES: #22 - #24	
	903-18337	YOKE & HUB ASM. - INCLUDES: #1 - #11	
	903-18338	FRICTION PACK - INCLUDES: #12 - #21	
	903-18303	FRICTION OVERRUNNING CLUTCH ASSEMBLY - INCLUDES: 903-18336, 903-18337, 903-18338	

CENTER DRIVE GEARBOX - 1:1 RATIO

NOTES:

- A. GEAR RATIO IS 1:1 (INPUT CCW ON STUB SHAFT)
- (B)TORQUE 3/8-16 CAPSCREWS (ITEM 10) TO 35-40 FT LBS

- E INSTALL SOLID PLUG (ITEM 9) AND SHIP DIPSTICK IN SEPARATE BAG OR BOX



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	903-18383	HSG, MACH TAP R800 STR GRD GR	1
2	903-18384	HSG, MACH R800 THRU STR GRD	1
3	903-18385	ASSY, SHAFT/GEAR R600	1
4	903-18386	ASSY, SHAFT/GEAR	2
5	901-01150	BRG, CONE TK#25581 1.750	1
6	901-01152	BRG, CUP TK#25520 3.265	2
7	901-01328	BRG, CONE TK#25580 1.750	1
8	901-09125	SEAL, 1.75-2.437312 (R) TC	3
9	905-03078	PLUG, 1/2-14 NPT SCHD W/3M	4
10	900-03033	BOLT, 3/8-16 X 2.25 SHCS	12
11	903-18225	DIPSTICK, R800 1/2-14 NPT	1
12	901-09233	GUARD, SEAL (OD3.00 ID 1.745)	3
13	900-39030	RETAINING RING, EXT 1.750 SHFT	4
	903-15575	COMPLETE GEARBOX - SUPERIOR MODEL R800 (1:1 RATIO)	

NOTES:

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.









(A)		MARKING ON HEAD						
Diameter	Wrench	SAE 2		SAE 5		SAE 8		
(Inches)	Size	LbsFt.	(N-m)	LbsFt.	(N-m)	LbsFt.	(N-m)	
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)	_	<u> </u>	
1-1/4"	1-7/8"	600	(815)	1255	(1700)	1	<u>├</u> ─�����	
1-3/8"	2-1/16"	675	(915)	1620	(2200)	Bolt -	⊤mn 奋 l	
1-1/2"	2-1/4'	920	(1250)	2200	(2900)	Diameter	<u> </u>	

Metric Series Torque Chart

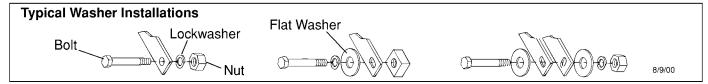
Use only metric tools on metric hardware. Always tighten hardware to these values unless a different torque value or tightening procedure is listed for a specific application. Fasteners must always be replaced with the same grade. Make sure fastener threads are clean and you properly start thread engagement.

(A)		C	COARSE THREAD			FINE THREAD				(A)
Diameter		MA	RKING (ON HE	AD	N	IARKING	ON HE	AD	Diameter
& Thread Pitch	Wrench	Metri	ic 8.8	Metr	ic 10.9	Meti	ric 8.8	Metr	ic 10.9	& Thread Pitch
(Millimeters)	Size	N-m	LbsFt.	N-m	LbsFt.	N-m	LbsFt.	N-m	LbsFt.	(Millimeters)
6x1.0	10 mm	8	6	11	8	8	6	11	8	6x1.0
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
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
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
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
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



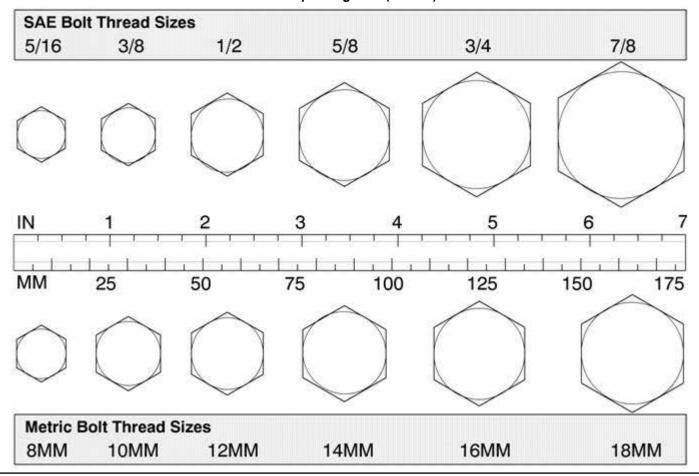






BOLT SIZE CHART

NOTE: Chart shows bolt thread sizes and corresponding head (wrench) sizes for standard SAE and Metric Bolts.

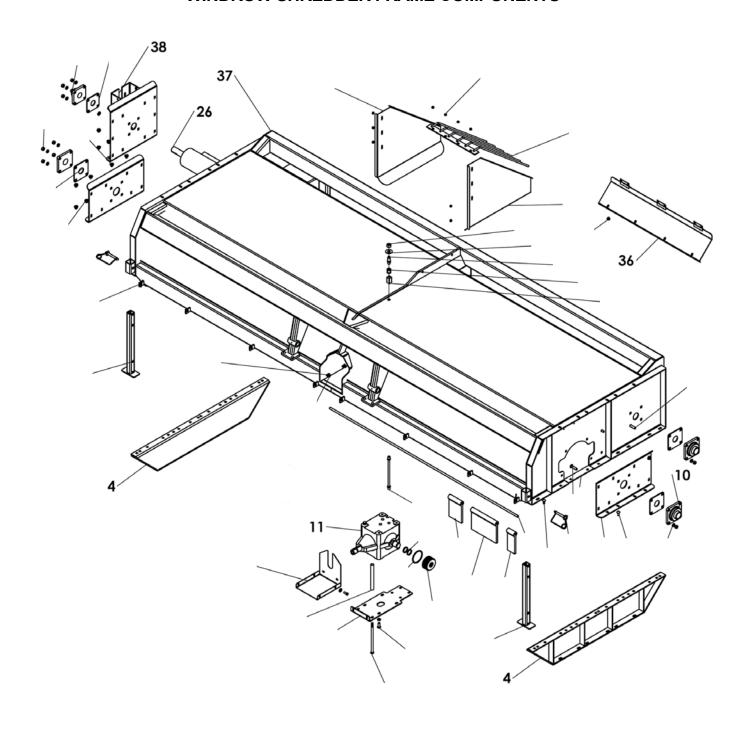


ABBREVIATIONS

AG	Agriculture
ATF	Automatic Transmission Fluid
BSPP	British Standard Pipe Parallel
BSPTM	British Standard Pipe Tapered Male
CV	Constant Velocity
	Counter-Clockwise
CW	Clockwise
	Female
GA	Gauge
	Grade (5, etc.)
	Hex Head Cap Screw
HT	Heat Treated
	Joint Industry Council 37° Degree Flare
	Left Hand
	Left
m	Meter
	Millimeter
	Male
MPa	Mega Pascal
N	Newton

	National CoarseNational Fine
NPSM	National Pipe Straight Mechanical
NPT	National Pipe Tapered
NPT SWF	National Pipe Tapered Swivel Female
	0-Ring Boss - Male
P	Pitch
	Power Beyond
psi	Pounds per Square Inch
PTO	Power Take Off
QD	Quick Disconnect
RH	Right Hand
	Roll Over Protective Structure
RPM	Revolutions Per Minute
RT	Right
SAE	Society of Automotive Engineers
UNC	Unified Coarse
UNF	Unified Fine
UNS	Unified Special

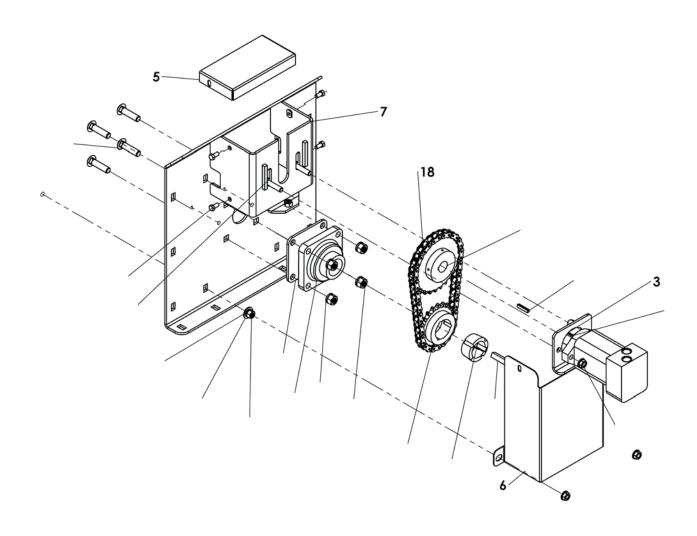
2008 & OLDER MODELS WINDROW SHREDDER FRAME COMPONENTS



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
4	507-2-0156	SKID PLATE WELD	2
10	901-01311	BEARING - UCF 211-35 2.19 4-BOLT	3
11	903-15566	G-BOX - SUPERIOR MODEL R800 (1.5 : 1 GEAR RATIO)	1
26	507-2-0213	AUGER WELD - 15' WINDROW - LH	1
	507-2-0215	AUGER WELD - 20' WINDROW - LH	
36	507-2-0209	DOOR WELD - TROUGH	2
37	507-2-0211	15' WINDROW BODY WELD - GEAR DRIVE - LH	1
	507-2-0210	20' WINDROW BODY WELD - GEAR DRIVE - LH	
38	507-2-0214	BEARING PLATE WELD - AUGER	1

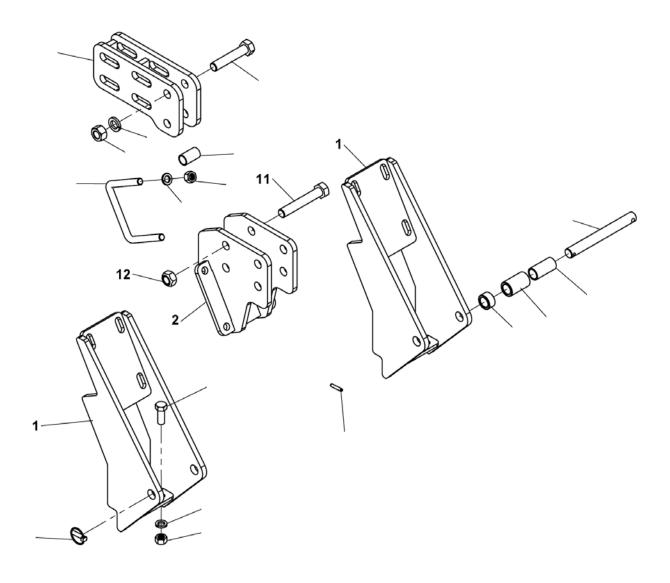
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2008 & OLDER MODELS AUGER DRIVE COMPONENTS



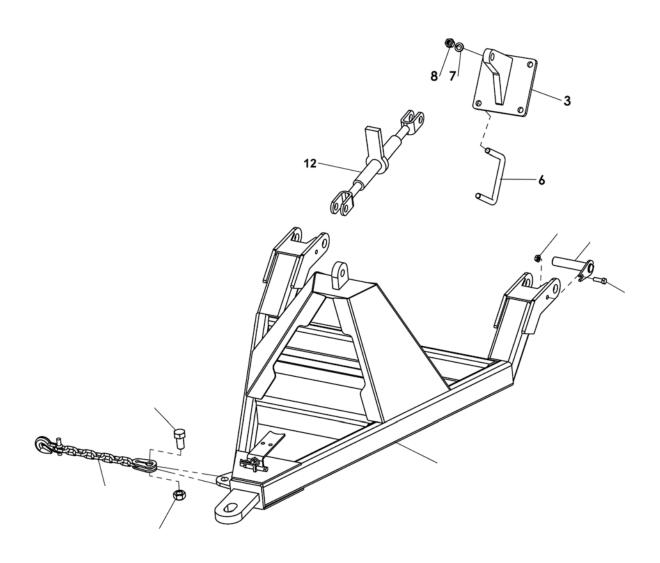
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
3	700-3-0894	MOUNT PLATE - HYD MOTOR	1
5	507-3-0275	TOP SHIELD - HYD MOTOR	1
6	507-3-0276	LOWER SHIELD - HYD MOTOR	1
7	507-2-0214	BEARING PLATE WELD - AUGER	1
18	507-3-0386	ROLLER CHAIN - #60-1 X 46 LINKS +CONN LINK & HALF LINK	1

2008 & OLDER MODELS 3-POINT HITCH COMPONENTS



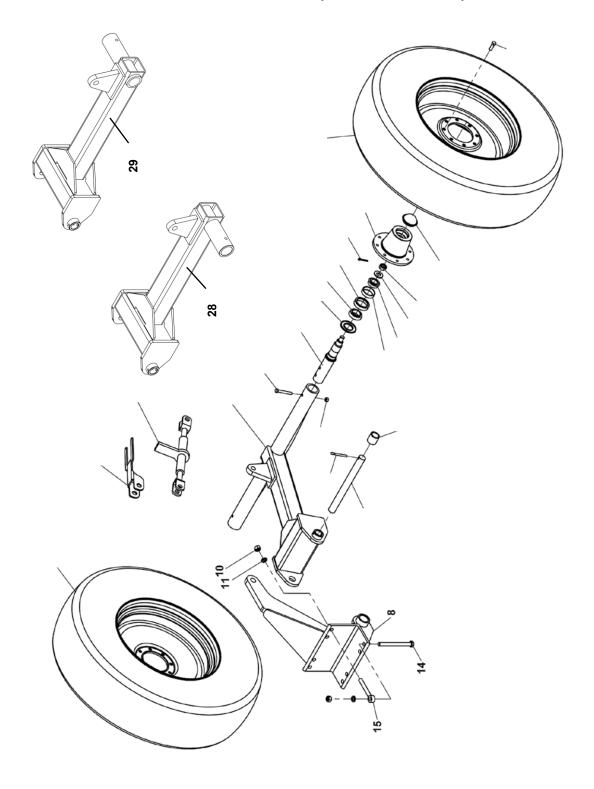
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	507-2-0013	LOWER 3-PT HITCH WELD	2
2	507-2-0015	UPPER 3-PT MOUNT	1
11	900-01535	BOLT HEX HEAD 1 NC X 6, GR5 ZP	4
12	900-06514	NUT, TOP LOCK 1 NC	4

2008 & OLDER MODELS PULL TYPE HITCH COMPONENTS



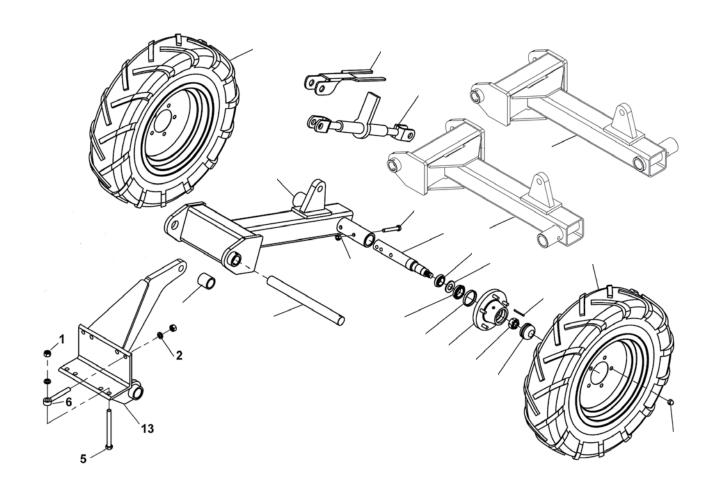
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
3	507-2-0033	TOP EAR WELD	1
6	200-3-0024	U-BOLT 3/4 NC X 6 X 5.5 X 1.5, GR5 ZP	2
7	900-11017	WASHER, LOCK 3/4	4
8	900-06015	NUT, HEX HEAD 3/4 NC	4
12	905-23014	RATCHET JACK HEAVY DUTY	1

2008 & OLDER MODELS RIGID STRUT - DUAL (LARGE WHEELS)



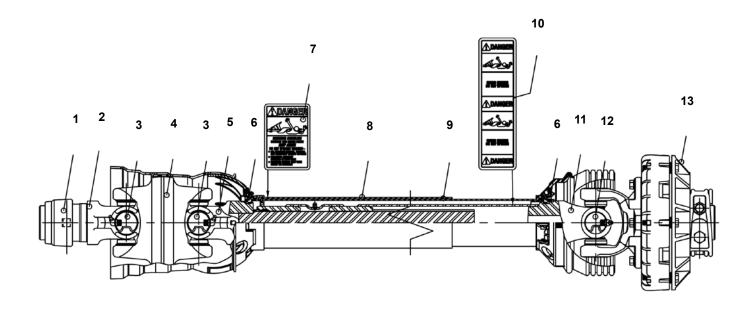
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
8	507-2-0235	MOUNTING ANGLE WELDMENT	1
10	900-06015	NUT, HEX HEAD 3/4 NC	8
11	900-11017	WASHER, LOCK 3/4	8
14	900-01437	BOLT, HEX HEAD 3/4 NC X 8-1/2, GR5 ZP	4
15	900-03463	BOLT, EYE 3/4 NC, GR5 ZP	4

2008 & OLDER MODELS RIGID STRUT - DUAL (SMALL WHEELS)



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	900-06015	NUT, HEX HEAD 3/4 NC	8
2	900-11017	WASHER, LOCK 3/4	8
5	900-01437	BOLT, HEX HEAD 3/4 NC X 8-1/2, GR5 ZP	4
6	900-03463	BOLT, EYE 3/4 NC, GR5 ZP	4
13	507-2-0235	MOUNTING ANGLE WELDMENT	1

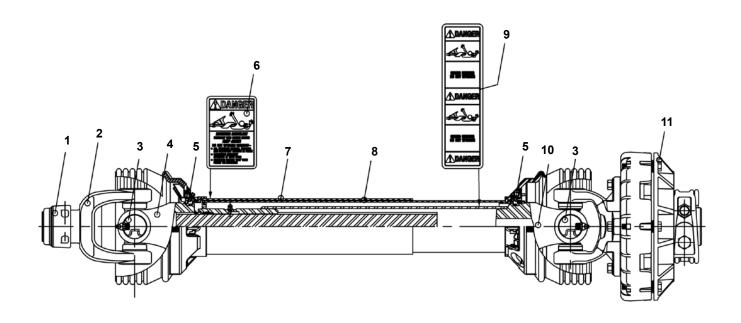
2008 & OLDER MODELS WEASLER PULL-TYPE PTO SHAFT WITH TORQMASTER CLUTCH



PART NUMBER	DESCRIPTION	QTY.
903-18106	SAFETY SLIDE LOCK REPAIR KIT 1-3/8"	1
903-17772	SAFETY SLIDE LOCK REPAIR KIT 1-3/4"	1
903-17733	SAFETY SLIDE LOCK YOKE ASSEMBLY 1-3/8"	1
903-18121	SAFETY SLIDE LOCK YOKE ASSEMBLY 1-3/4"	1
903-17737	CAT 6 CROSS & BEARING KIT	2
903-17739	CENTER HOUSING ASSEMBLY	1
903-17908	YOKE & SHAFT	1
903-17774	NYLON REPAIR KIT	2
903-17455	SAFETY SIGN	1
903-18057	OUTER GUARD	1
903-17910	INNER GUARD	1
903-17456	SAFETY SIGN	1
903-17909	YOKE, TUBE, & SLIP SLEEVE	1
903-17239	55R CROSS & BEARING KIT	1
903-18303	FRICTION OVER RUNNING CLUTCH ASSEMBLY	1
903-18283	GUARD SET	
903-18220 903-18221	CV SLIP CLUTCH PTO, 1-3/8", COMPLETE CV SLIP CLUTCH PTO, 1-3/4", COMPLETE	
	903-18106 903-17772 903-17733 903-18121 903-17737 903-17739 903-17908 903-17774 903-17455 903-18057 903-17910 903-17456 903-17909 903-17239 903-18303 903-18283	903-18106 SAFETY SLIDE LOCK REPAIR KIT 1-3/8" 903-17772 SAFETY SLIDE LOCK REPAIR KIT 1-3/4" 903-17733 SAFETY SLIDE LOCK YOKE ASSEMBLY 1-3/8" 903-18121 SAFETY SLIDE LOCK YOKE ASSEMBLY 1-3/4" 903-17737 CAT 6 CROSS & BEARING KIT 903-17739 CENTER HOUSING ASSEMBLY 903-17908 YOKE & SHAFT 903-17774 NYLON REPAIR KIT 903-1775 SAFETY SIGN 903-17455 SAFETY SIGN 903-17910 INNER GUARD 903-17910 INNER GUARD 903-17456 SAFETY SIGN 903-17456 SAFETY SIGN 903-17239 YOKE, TUBE, & SLIP SLEEVE 903-17239 55R CROSS & BEARING KIT 903-18303 FRICTION OVER RUNNING CLUTCH ASSEMBLY 903-18283 GUARD SET

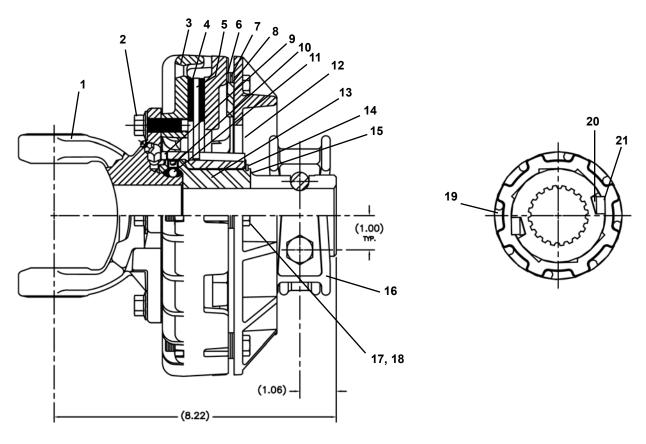
2008 & OLDER MODELS

WEASLER 2-POINT & 3-POINT PTO SHAFT WITH TORQMASTER CLUTCH



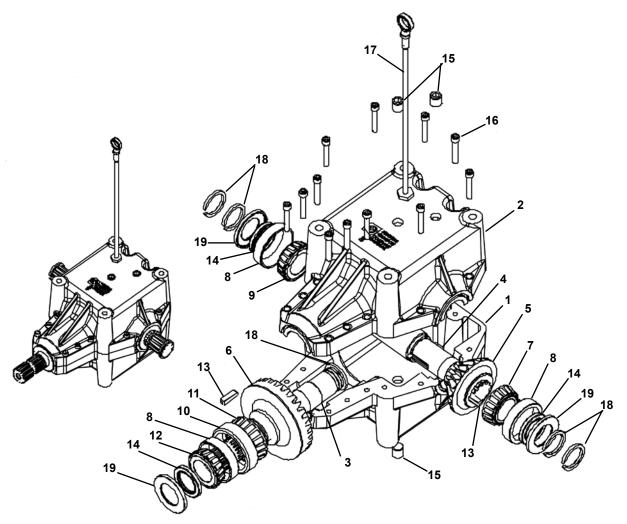
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	903-17772	SAFETY SLIDE LOCK / AUTO-LOCK REPAIR KIT	1
2	903-17418	SAFETY SLIDE LOCK YOKE ASSEMBLY 1-3/4"	1
3	903-17239	55R CROSS & BEARING KIT	2
4	903-17613	YOKE & SHAFT 26.8 CENTER-END	
5	903-17774	NYLON REPAIR KIT (NS)	2
6	903-17455	SAFETY SIGN	1
7	903-17614	OUTER GUARD, 24" LONG BELL	1
	903-18073	OUTER GUARD, 31" LONG BELL	1
8	903-17725	INNER GUARD	1
9	903-17456	SAFETY SIGN	1
10	903-17724	YOKE, TUBE, & SLIP SLEEVE	1
11	903-18303 903-18290	FRICTION OVER RUNNING CLUTCH ASSEMBLY GUARD SET	1
	903-18218 903-18219	SLIP CLUTCH PTO, 1-3/8", COMPLETE SLIP CLUTCH PTO, 1-3/4", COMPLETE	

2008 & OLDER MODELS WEASLER TORQMASTER CLUTCH COMPONENTS



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	903-18191	YOKE	1
	903-18226	OVERRUNNING REPAIR KIT, (2, 6, 7, 8, 9)	
2	900-03054	BOLT, M10 X 1.50 LG, CLASS 10.9	4
3	903-18227	HOUSING	1
4	903-18175	FRICTION DISC	2
5	903-18174	SEPARATOR PLATE	
6	903-18228	PRESSURE PLATE	1
7	905-14019	SPRING	1
8	900-11236	WASHER, M8 NARROW	24
9	900-03053	WAVE SPRING	1
10	903-18154	SET SCREW, .315-18 X .25 LG	1
11	903-18230	BALL, .250, GRADE 5	31
12	903-18229	COMPRESSION PLATE	1
13	903-18232	OVERRUNNING INNER HUB	1
14	903-18167	WASHER	
15	903-18168	RETAINING RING	1
16	903-18233	CLAMP	1
17	900-03053	BOLT, M8 X 1.25 X .60 LG, CLASS 10.9	6
18	900-06548	NUT, M8 X 1.25	6
19	903-18231	OVERRUNNING HUB	1
20	903-18170	LEAF SPRING	2 2
21	903-18171	OVERRUNNING KEY	2
	903-18234	YOKE & HUB ASM.	
	903-18235	FRICTION PACK	
	903-18303	FRICTION OVERRUNNING CLUTCH ASSEMBLY	
		86	PN-50730431 (12/09)

2008 & OLDER MODELS CENTER DRIVE GEARBOX



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	903-18222	HOUSING, SEAL GUARD	1
2	903-18223	CASTING, MACH R800 THRU	1
3	903-15567	SHAFT, STUB R600 KEYED 20T	1
4	903-15568	SHAFT, CROSS R600 KEYED 2X 10T	1
5	903-15321	GEAR R6 1.5 .375 KEYED 20T	1
6	903-15320	GEAR R6 1.5 .375 KEYED 30T	1
7	901-01150	BEARING, CONE 1.750 VN-25581	1
8	901-01152	BEARING, CUP 3.2650 VN-25520	3
9	901-01328	BEARING, CONE 25580	1
10	901-01153	BEARING, CUP 3.6718 VN-3720	1
11	901-09230	BEARING, CONE TMKN #3777	1
12	901-09231	BEARING, CONE TMKN #25592	1
13	903-15374	KEY, 3/8 X 3/8, 1.435	2
14	901-09125	SEAL, 1.750-2.437312 (R) TC	3
15	905-03078	PLUG, 1/2-14NPT SCHD W/3M	4
16	900-03033	BOLT, 3/8-16 X 2.25 SHCS	12
17	903-18225	DIPSTICK, R800 1/2-14NPT	1
18	900-39030	RETAINING RING, EXT 1.750 SHFT	5
19	901-09233	GUARD, SEAL (OD3.00 ID1.745)	3
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NOTES

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 ALLOWAYS' 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.

THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS WARRANTY. ALLOWAY MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND ALLOWAY SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

ALLOWAY shall not be liable for any incidental or consequential losses, damages or expenses, arising directly or indirectly from the product, whether such claim is based upon breach of contract, breach of warranty, negligence, strict liability in tort or any other legal theory. Without limiting the generality of the foregoing. Alloway specifically disclaims any damages relating to (i) lost profits, business, revenues or goodwill; (ii) loss of crops; (iii) loss because of delay in harvesting; (iv) any expense or loss Incurred for labor, supplies, substitute machinery or rental; or (v) any other type of damage to property or economic loss.

This Warranty is subject to any existing conditions of supply, which may directly affect ALLOWAYS' ability to obtain materials or manufacture replacement parts.

No agent, representative, dealer, distributor, serviceperson, salesperson, or employee of any company; including without limitation, ALLOWAY, its authorized dealers, distributors, and service centers, is authorized to alter, modify, or enlarge this Warranty.

This Warranty is effective only if the warranty registration card is returned within ten (10) days.

Answers to any questions regarding warranty service and locations may be obtained by contacting:

Alloway 4230 14th Ave.NW Fargo, North Dakota 58102 701-356-4983



WARRANTY

ALLOWAY STANDARD, d/b/a ALLOWAY, warrants this product to be free from defect in material and workmanship for a period of One (1) year, ninety (90) days for Service Parts, from 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 cover normal wear or tear, or normal maintenance items.

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'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.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS WARRANTY. ALLOWAY MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND ALLOWAY SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

ALLOWAY shall not be liable for any incidental or consequential losses, damages or expenses, arising directly or indirectly from the product, whether such claim is based upon breach of contract, breach, of warranty, negligence, strict liability in tort or any other legal theory. Without limiting the generality of the foregoing, Alloway specifically disclaims any damages relating to (i) lost profits, business, revenues or goodwill; (ii) loss of crops; (iii) loss because of delay in harvesting; (iv) any expense or loss incurred for labor, supplies, substitute machinery or rental; or (v) any other type of damage to property or economic loss.

This Warranty is subject to any existing conditions of supply, which may directly affect ALLOWAYS' ability to obtain materials or manufacture replacement parts.

No agent, representative, dealer, distributor, service person, salesperson, or employee of any company, including without limitation, ALLOWAY, Its authorized dealers, distributors, and service centers, IS authorized to alter, modify, or enlarge this Warranty.

Answers to any questions regarding warranty service and locations may be obtained by contacting:

Alloway 4230 14th Ave.NW Fargo, North Dakota 58102 701-356-4983



PART NUMBER 507-3-0431

Alloway Equipment Company

4230 14th Ave NW. Fargo, ND 58102 877-275-8714 tel 701-356-4985 fax

