

# **Operator's and Parts Manual**

**Bale Carrier** 

46912

04/08

## **INLAND WARRANTY POLICY**

Buhler Manufacturing products are warranted for a period of twelve (12) months (90 days for commercial application) from original date of purchase, by original purchaser, to be free from defects in material and workmanship under correct, normal agricultural use and proper applications.

Buhler Manufacturing's obligations under this warranty shall be limited to the repair or exchange, at Buhler Manufacturing's option, of any Buhler Manufacturing product or part which proves to be defective as provided. Buhler Manufacturing reserves the right to either inspect the product at the buyer's location or have it returned to the factory for inspection.

The above warranty does not extend to goods damaged or subject to accident, abuse or misuse after shipment from Buhler Manufacturing's factory, nor to goods altered or repaired by anyone other than an authorized Buhler Manufacturing representative.

Buhler Manufacturing makes no Express Warranties other than those, which are specifically described. Any description of goods, including any references and specifications in catalogues, circulars and other written material published, is for the sole purpose of identifying goods and shall conform to such descriptions. Any sample or model is for illustrative purposes only and does not create an Express Warranty that the goods conform to sample or model shown.

The purchaser is solely responsible for determining suitability of goods sold. This warranty is expressly in lieu of all other warranties expressed or implied. Buhler Manufacturing will in no event be liable for any incidental or consequential damages whatsoever. Nor for any sum in excess of the price received for the goods for which liability is claimed.

#### WARRANTY CLAIMS:

Warranty requests must be prepared on Buhler Manufacturing Warranty Claim Forms with all requested information properly completed. Warranty Claims must be submitted within a thirty (30) day period from date of failure repair.

#### WARRANTY LABOR:

Any labor subject to warranty **must** be authorized by Buhler Manufacturing. The labor rate for replacing defective parts, where applicable, will be credited at 100% of the dealers posted shop rate. Defective parts will receive an extra 10% discount to assist with freight or other incidental costs.

#### **GOVERNMENT LEGISLATION:**

Warranty terms and conditions are subject to Provincial or State legislation.

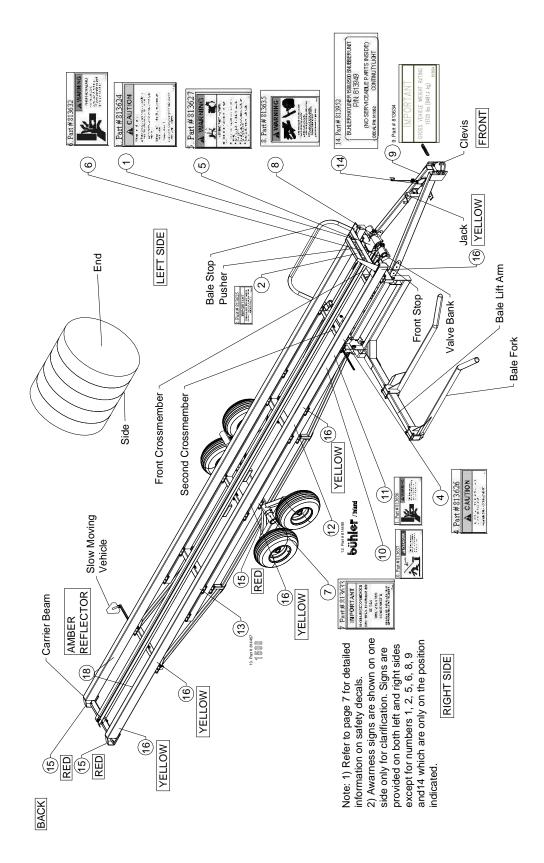
IMPORTANT FACTS: Buckets and Bucket Tines Carry No Warranty Bent Spears Carry No Warranty Snowblower Fan Shafts Carry No Warranty Mower Blades Carry No Warranty Portable Auger Parts Have Two (2) Year Warranty

## OPERATORS AND PARTS MANUAL

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### TERMINOLOGY AND DECAL LOCATIONS ILLUSTRATION



#### **GENERAL SPECIFICATIONS:**

#### **Dimensions:**

- Length: 44' (13.4 m)
- Deck Length: 37' (11.3 m)
- Width: 8'6" (2.6 m)
- Weight (empty): 5495 LB (2498 kg)
- Drawbar Vertical Load (empty): 1365 LBF (6071 N)
- GVW: 18720 LB (8491 kg)

#### **Capacity:**

- Total bale payload: 13225 LB (6000 kg)
- Bales 6' (1.8 m) diameter maximum to 4' (1.2 m) diameter minimum
- Hay crop, small grains, and flax straw
- Eight 4' (1.2 m) wide bales
- Seven 5' (1.52 m) wide bales

#### Tires:

- 4-12.5L x 15 FI 12 ply, Load Range F, Farm Hwy Service tire
- Six bolt heavy-duty hubs with twine guards
- Walking beam axle design

#### **Control Handle:**

- Power: 12v
- Fuse: 15 amp (surge protection provided on machine)

#### Hydraulics:

- Two remote tractor hydraulics circuits required for operation
- Closed-center hydraulic standard.
- In-field configuration is required for open-center or load-sensing tractors
- One Lift cylinder with restrictor
- One Tilt cylinder with restrictor
- Two 22.2 cu. inch (363.79 cu cm) hydraulic motors
- See Appendix B for details on hydraulic components

#### Tractor:

- Size: 60 hp (45kW) recommended

- Weight: As per ASAE specification ASAE S365.4 the tractor must weight 12480 LB (5660 kg) to adequately handle a GVW of 18720 LB (8491 kg)

- Maximum loaded towing speed 20 mph (32 km/h)

#### INTRODUCTION

**CAUTION:** Your 1500 Bale Carrier requires a recommended minimum 60 hp (75kw) tractor. The maximum loaded transportation speed of 20 mph (32 km/h) and 18720 LB (8491 kg) must not be exceeded.

This manual has been provided as information regarding the specifications, safe operation and maintenance of your agricultural 1500 Bale Carrier. Read and understand this manual and the tractor manual prior to operating to obtain the best use of operating your 1500 Bale Carrier. Keep this manual for reference and to forward to new operators and owners. Contact your local Buhler Inland dealer if you require any assistance, information or additional manuals.

Your new bale carrier is designed to retrieve, transport, and unload a wide range of round bales. Sizes that can be accommodated range from 4' (1.2 m) diameter to 6' (1.8 m) diameter in a variety of hay crops as well as small grain and flax straw.

#### Serial Decal Location

The serial decal is located on the left side of the front crossmember. Please record the serial number in the space provided for future reference. The serial decal will provide the model and date of manufacture of the Bale Carrier and will be required to obtain correct replacement parts and complete warranty claims.

| For your records, record |  |                   |
|--------------------------|--|-------------------|
| Serial Number here:      | B.I.   | I.FARGOINC.       |
|                          |  | FARGONORTH DAKOTA |
|                          | <b>bühler</b><br>versatile<br>farmking<br>allied<br>inland | MODEL No.         |
|                          |  |                   |
|                          |  |                   |
|                          | MADE IN THE U.S.A.   | 115793            |

#### Warranty Registration

The warranty registration and delivery report MUST be completed within thirty (30) days of delivery to validate the warranty.

## SAFETY

Read and understand all the safety messages listed in this manual. For your safety and the safety of others near the machine, learn how to control and operate your 1500 Bale Carrier properly. It is your responsibility to inform subsequent operators and owners of these precautions.

### General Safety Notes

- $\checkmark$  Keep young children away from machinery and bales at all times.
- Be aware that accidents often happen when the operator is tired or in a hurry to get finished. Take the time to consider the safest way. Never ignore warning signs of fatigue.
- ✓ Keep hands, feet, clothing and hair away from moving parts. Never attempt to clear obstructions or objects from a machine while the engine is running.
- Keep all shields in place. Never alter or remove safety equipment.
- Do not attempt to clear any blockage or reach into the 1500 Bale Carrier with your arm or leg unless the tractor engine is stopped.
- ✓ Do not load bales of sizes not out lined in the specifications section.
- ✓ Use proper lighting and safety warnings when transporting equipment on public roads and during darkness. The slow moving vehicle emblem must be visible. Check with your local law enforcement agency for specific requirements.
- Provide a first-aid kit for use in case of emergencies.
- The safety information in this manual does not replace safety codes, insurance needs, or laws governing your area. Be sure your machine meets the standards set by these regulations.
- ✓ Keep a fire extinguisher with the machine. Be sure the extinguisher is properly maintained and be familiar with its proper use.
- ✓ Wear close-fitting clothing and cover long hair. Never wear dangling items such as scarves or bracelets.
- ✓ Remember that YOU are the key to safety. Good safety practices protect you and the people around you.
- ✓ Follow all safety messages in the manual and on safety signs located on the machine.
- ✓ It is your responsibility to read and understand this manual completely before operating the bale carrier.







1500 Bale Carrier

1500 Bale Carrier

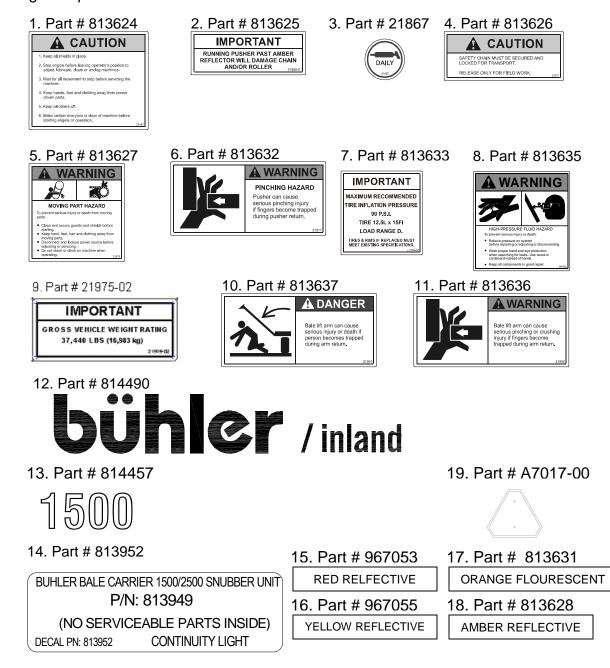
- ✓ Never leave the tractor unattended while the 1500 Bale Carrier is hooked up, always shut tractor off and remove key before leaving the tractor seat. A child or even a pet could engage an idling machine.
- ✓ Keep the 1500 Bale Carrier on solid ground; rocks and holes can be dangerous for operation and movement.
- ✓ Prior to use, check to ensure the attachment is properly hitched.
- ✓ Improper use of the 1500 Bale Carrier and tractor can cause serious injury or death.
- ✓ Never operate 1500 Bale Carrier with frayed or damaged hoses or leaking fittings. A burst could cause one or more hydraulic components to behave erratically causing serious injury or loss of life.
- ✓ Operate 1500 Bale Carrier only while seated in the tractor seat.
- ✓ Do not load bales improperly; always load according to the manual's operation procedures.
- ✓ If for some reason you feel the tractor tipping immediately lower lift arms.
- ✓ Do not raise lift arms to extreme heights while tractor is on an incline. Be alert for terrain changes and adjust accordingly.
- ✓ Allow for 1500 Bale Carrier and tractor length when turning.
- ✓ Do not overload the GVW of 18720 LB (8491 kg) and when loaded keep the speed below 20 mph (32 km/h).
- ✓ Before allowing anyone to operate the machine, for however a short time or distance, make sure they have been instructed in its safe and proper use.
- Review the manual and all safety related items with all operators annually. Correct other operators not using recommended procedures before an accident occurs.
- ✓ When assembling, operating and servicing machinery, wear all the protective clothing and personal safety devices that could be necessary for the job at hand.
- ✓ Never work beneath a raised lift arm unless it is securely supported. The control handle can be moved or a hydraulic leak could cause the arm to drop resulting in serious injury or death.
- Use only service and repair parts made or approved by the equipment manufacturer. Substituted parts may not meet strength, design, or safety requirements.
- ✓ Do not modify the machine. Unauthorized modifications may impair the function and/or safety and affect machine life.
- ✓ Keep the area used for servicing machinery clean and dry. Wet or oily floors are slippery. Wet spots can be dangerous when working with electrical equipment. Be sure all electrical outlets and tools are properly grounded.



- ✓ Keep machinery clean. Straw and chaff on hot surfaces are a fire hazard. Do not allow oil or grease to accumulate on service platforms, ladders or controls. Clean machines before storage.
- ✓ Never use gasoline, naphtha or any volatile material for cleaning purposes. These materials may be toxic and/or flammable.
- ✓ When storing machinery, cover sharp or extending components to prevent injury from accidental contact.

#### **Safety Decals**

The terminology and decal location illustration shows the approximate location and detail of safety decals. To install safety decals ensure the installation area is clean and dry. Decide on the exact position before you remove the backing paper. Remove the smallest portion of the split backing paper and align over the specified area. Carefully press in place. Slowly peel back the remaining paper and smooth the remaining portion in place. Small air pockets can be pierced with a pin and smoothed out. Keep all decals clean and replace any that are damaged or missing. Replacement decals are available from you local dealer. The following pictorials indicate important precautions to be used during the operation of the 1500 Bale Carrier.



### Important Precautions

The alert symbol is used throughout this manual. It indicates attention is required and identifies hazards and alerts you that your safety is involved. Follow the recommended precautions.

**CAUTION** Indicates a potentially hazardous situation, which may result in injury. It may also be used to alert against unsafe practices.

**WARNING** The warning symbol indicates a potentially hazardous situation, which could result in death or serious injury and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

**DANGER** The danger symbol indicates an imminently hazardous situation, which will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components, which for functional purposes, cannot be guarded

1500 Bale Carrier

### PRE-OPERATION CHECKLIST

**CAUTION** Make sure the tractor has a 60 hp (45 kw) or greater rating and a mass of 12480 LB (5660 kg). Make sure the drawbar is capable of supporting the 1500 Bale Carrier empty or loaded.

**WARNING** The tractor must be equipped with an approved Roll over Protection Structure (ROPS) and safety belts to help prevent personal injury or death caused by tractor roll over.

To ensure safe and proper operation of the 1500 Bale Carrier, inspect the following items prior to operation and daily thereafter. Refer to operation, lubrication and maintenance sections for detailed instructions.

- ✓ Prior to first use verify that the 1500 Bale Carrier has been properly assembled and that the operator understands the safety, operating, and maintenance requirements.
- Check for missing fasteners and replace if necessary. Refer to maintenance section for details.
- ✓ Check and maintain proper tire pressure of 90 psi (620 kpa).
- ✓ Check for loose wheel bolts. Bolts must be torqued to 125 ft LB (170 Nm).
- Clean 1500 Bale Carrier of any foreign material that may have accumulated from previous run.
- ✓ Lubricate all points requiring daily lubrication.
- ✓ Check chain tension and adjust if necessary with front sprocket adjusting bolt (approximately 6" (15 cm) of upward slack). This is verified by raising the chain by hand.
- Ensure top surface of bale carrier beams are properly coated with a graphite coating to reduce bale friction while pushing bales back.
- ✓ Ensure that the tractor used to pull the 1500 Bale Carrier is in working order according to the tractor manual.
- ✓ Verify the 1500 Bale Carrier is properly coupled to the tractor with the safety chain.
- ✓ Inspect all safety reflective decals, slow moving vehicle decals and lights where applicable.
- ✓ Inspect the hydraulic system on the 1500 Bale Carrier and your tractor for leaks or any other damage.
- ✓ Ensure the control handle actions reflect the movements of the 1500 Bale Carrier.
- ✓ Inspect all electrical connections to ensure proper function of the machine
- Ensure transport safety chain is disengaged from bale lift arm and stored on chain lug located on second cross member. Failure to do so may cause damage to lift arm.

## OPERATION

**CAUTION** Prior to operation ensure the operator has read and understands the safety requirements of the 1500 Bale Carrier. Ensure the pre-operation checks have been completed prior to operation.

### 1. Attaching Bale Carrier To Tractor

**CAUTION** Shut off tractor, engage parking brake and remove key before working around 1500 Bale Carrier. Refer to tractor manual for tractor parking procedures.

**CAUTION** Use only the drawbar to couple the 1500 Bale Carrier to the tractor. Ensure drawbar is capable of handling the 1500 Bale Carrier load. The tractor must have a minimum mass of 12480 LB (5660 kg) and recommended 60 hp (45 kw).

- Using the tongue jack, raise tongue to align with hitch pin, adjust clevis position as necessary to level the carrier beams.
- Position tractor and secure with locking type drawbar pin (not supplied). Use an approved hitch pin with a mechanical retainer.
- Route safety chain around the hitch clevis, around drawbar support and back hook. Refer to tractor manual for further drawbar instructions.
- > Do not use intermediate support on drawbar as attaching point.
- Store safety chain off the ground when not in use. If safety chain is damaged in any way, contact your dealer for a replacement.
- For serial number 08BM1500001 and later, open-center valve is a factoryinstalled feature
  - **Note:** The bale carrier is factory-configured to operate with tractors having CLOSED-CENTER hydraulic systems (page 31).
- For tractors with OPEN-CENTER or LOAD-SENSING hydraulic systems, refer to the configuration on pages 33, 50 and 51.

#### 2. Attaching Bale Carrier Controls To Tractor

- Bale lift and push functions are controlled by the 1500 Bale Carrier valve. Two hoses complete with black hydraulic tip covers supply pressure and tank. The retraction hose is designated with a check valve and ensures proper flow through the valve. Connect the return hose to the retract circuit and the extend hose to opposite extend port.
- The tilt function is controlled by the tractor's remote valve. Two hoses complete with red hydraulic tip covers supply extension and retraction.
- Connect control handle harness to the machine harness. Connection is made at the snubber unit by matching the appropriate socket and plug.

- The power required to operate the 1500 Bale Carrier is supplied by the tractors 12-volt electrical system. Connect the red wire to the tractor positive and green to tractor ground. Connection may be made via tractor accessory plug or alternate method. The 15-amp fuse must be used on the positive wire as supplied.
- Verify 1500 Bale Carrier operation matches 1500 Bale Carrier control handle decal.

- To start 1500 Bale Carrier operation, engage the remote hydraulic valve in the extension position. Lock valve in detent. Valve to remain constantly on during operation.
- The control handle is fitted with one rocker switch and two momentary contact rocker switches. They function as follows:
  - PUSHER SPEED: Select (HIGH) to operate pusher motors in series at high speed or (LOW) to operate in parallel at low speed. Torque is increased at low speed and pushes bales with more force.
  - PUSHER: Depress and hold PUSHER FWD to move forward. Depress and hold PUSHER BACK to move pusher back.
  - LIFT ARM: Depress and hold LIFT ARM UP to raise lift-arm. Depress and hold LIFT ARM DN to lower lift-arm.
- To operate raise / lower tilt function engage the remote hydraulic valve in the extension position to raise the tilt deck and engage the retract position to lower the deck.

### 4. Loading Bales

**WARNING** Make sure area is clear before lowering bale lift-arm. Failure to do so could result in injury or death.

- Align the tractor and 1500 Bale Carrier as indicated in the pictoral for pick up method used. Slowly approach the bale at 5 mph (8 km/h) while loading. When bale is properly captured, begin to lift bale.
- The 1500 Bale Carrier is designed to load bales with one of three options. Refer to the appropriate section on the next page for your option loading instructions. Instructions for the fork positions are provided in appendix A.

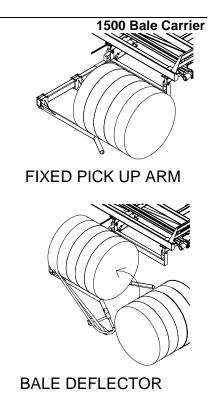
**NOTE:** Before loading bale the pusher must be at the front of the carrier deck.



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- The Fixed Pick Up Arm requires the operator to drive at 90° to the bale direction. The bales are loaded "End On". The bale is loaded onto the carrier deck by depressing and holding LIFT ARM UP until the bale rolls off the pickup arm and onto the carrier beams.
- The Bale Deflector attached to the fixed pick up arm allows the bales to be picked up from either "End On" or "Side On." The deflector rotates the bale 90° before it is lifted up onto the carrier. Forward travel is used to rotate the bale. Approach the bale so that the outer end of the bale rides up on the bale deflector as the loading arm moves under the bale.

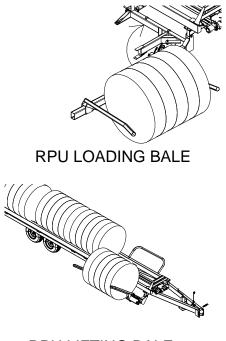
To pickup bales that are placed "End On," drive so the inner arm of the loading fork is against the inner edge the bale. The bale will then be loaded onto the carrier in the same direction as it was picked up. Continue to load using fixed arm instructions.



**NOTE:** The bale should be contacted about 12" (30 cm) from its outer end when using the bale deflector. Contacting the bale further to the inside may result in damage to the deflector, bale lift arm or bale.

The Rotating Pick Up Arm (RPU) loads bales "side on". The lift arm starts in the lowered position. Drive forward until the forks are positioned around the ends of the bale with the inside stationary fork as close as possible to the bale. Depress and hold LIFT ARM UP. The bale is then squeezed on end until the pressure matches the sequence valve setting that rotates and raises the bale.

When the bale is lifted above, the bale is released by depressing LIFT ARM DN. This releases the bale and returns the RPU to the ready state for the next bale. Refer to the assembly instructions for adjusting RPU's settings.



**RPU LIFTING BALE** 

### 5. Bale Pusher Operation

**CAUTION** To avoid misbalanced loads the operator is only required to push back one bale length to prepare for the next bale.

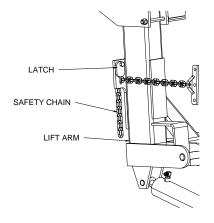
**NOTE:** Lower loading arm before operating the pusher.

- Depress and hold PUSHER BACK and move bales far enough to the rear to provide room to load the next bale.
- Return pusher all the way to the front by depressing and holding PUSHER FWD.
- > Hi speed / Low torque mode is recommended for normal use.
- Low speed / High torque mode is for heavier payloads or situations where bales are wet or resist sliding.

#### 6. Transporting 1500 Bale Carrier

**WARNING** Do not tow over 20 mph (32 km/h) when loaded. Turn on flashing lights when transporting on public roadways. Obey local regulations regarding road transport. Raise bale lift arm and use the safety chain when transporting. Ensure the lift arm chain latch is used to prevent the safety chain from dislodging or loosening.

- Do not transport if end bale is overhanging beams. Beam should extend beyond last bale for a minimum of 2' (61 cm).
- Raise lift arm prior to transport. Always engage lift arm safety chains when transporting on public roadways or when not in field. Lock chain in position with latch provided.
- Monitor the condition and position of bales that are being transported.
- Slow speed when transporting over bumps or rough terrain.



LIFT ARM SAFETY CHAIN ILLUSTRATION

### 7. Unloading

**DANGER** Make sure area is clear before unloading. Failure to do so could result in serious injury or death.

**NOTE:** Do not run pusher all the way to the end, the resulting shock load may cause damage to chain and drive.

- Extend tilt cylinder to raise carrier beam by engaging the tractor's extension hydraulics.
- Depress and hold the PUSHER BACK switch to push the bales off the carrier beam.
- Once the rear bale has been pushed off the carrier, slowly drive forward while pushing the bales back (unloading) to keep all bale ends in contact.
- When amber reflector on inside of the carrier beam becomes visible stop the pusher. The reflector is approximately 26" (66cm) from the end of the beam.
- Release PUSHER BACK and slowly drive forward to unload the last bale. Retract the tilt cylinder to lower the beam and begin the next loading cycle.

AMBER REFLECTOR LOCATION

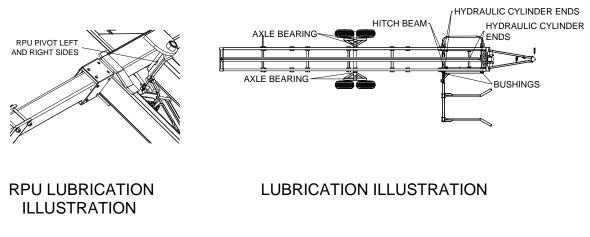
#### LUBRICATION

**CAUTION** Place all controls in neutral, stop engine, set parking brake and remove ignition key before inspecting, servicing, adjusting or repairing the 1500 Bale Carrier.

**CAUTION** Ensure the 1500 Bale Carrier tires and hitch are securely blocked. Otherwise, verify the 1500 Bale Carrier is properly coupled to the drawbar on a tractor with a minimum mass of 12480 LB (5660 kg).

#### **Pivot Points**

Lubricate 1500 Bale Carrier bushings and pivots every eight hours of average operation with high-grade grease at all fitting locations. Select grease based on the expected outside temperature range. Lithium, Molybdenum and synthetic greases are preferred. Use the tractor hour meter as a guide. Increase lubrication intervals for extreme use or adverse conditions. Each pivot should be lubricated until grease is visible at pin. The fixed arm carrier has 12 lubrication points and the RPU carrier has 13 points. Refer to the illustrations below for locations.



#### **Roller Chain**

- > Manually brush SAE lubricant while chain is stationary.
- > Lubricate the chain every time bolt torque maintenance is performed.

#### **Carrier Beams**

- Apply a graphite coating such as Slip Plate<sup>™</sup> to the carrier beams as required to ensure a smooth push back operation.
- > Follow application instructions as provided by the coating manufacturer.
- > At the end of the season apply a coating to prevent rust on the carrier beams.

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#### MAINTENANCE

**CAUTION** Place all controls in neutral, stop engine, set parking brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting or repairing the 1500 Bale Carrier.

**CAUTION** Ensure the 1500 Bale Carrier tires and hitch are securely blocked. Otherwise, verify the 1500 Bale Carrier is properly coupled to the drawbar on a tractor with a minimum mass of 12480 LB (5660 kg).

**NOTE:** Service intervals should be increased when operating in extreme or difficult conditions.

#### 1. Fasteners

- > Inspect all bolt torques after first use and 50 hours thereafter.
- Periodically inspect for broken or missing fasteners. Replace with fasteners of similar size and equivalent grade.
- The table below lists the correct torque values for various bolts and cap screws used on the bale carrier. Tighten all bolts to specified values unless otherwise noted.

| BOLT                  | BOLT TORQUE |     |       |     |       |      |
|-----------------------|-------------|-----|-------|-----|-------|------|
| DIAMETER              | SAE 2       |     | SAE 5 |     | SAE 8 |      |
| "A"                   | lb-ft       | N.m | lb-ft | N.m | lb-ft | N.m  |
| 1/4"                  | 6           | 8   | 9     | 12  | 12    | 17   |
| 5/16"                 | 10          | 13  | 19    | 25  | 27    | 36   |
| 3/8"                  | 20          | 27  | 33    | 45  | 45    | 63   |
| 7/16"                 | 30          | 41  | 53    | 72  | 75    | 100  |
| 1/2"                  | 45          | 61  | 80    | 110 | 115   | 155  |
| 9/16"                 | 70          | 95  | 115   | 155 | 165   | 220  |
| 5/8"                  | 95          | 123 | 160   | 215 | 220   | 298  |
| 3/4"                  | 155         | 225 | 290   | 390 | 400   | 540  |
| 7/8"                  | 170         | 230 | 420   | 570 | 650   | 880  |
| 1"                    | 225         | 305 | 630   | 850 | 970   | 1320 |
| LOCATION              |             |     |       |     |       | N.m  |
| WHEEL HUB BOLTS       |             |     |       |     | 125   | 170  |
| ALL CARRIAGE BOLTS 33 |             |     |       |     |       | 45   |

SAE-2 SAE-5 SAE-8

1500 Bale Carrier

### 2. Hydraulic System

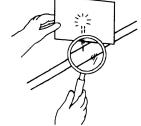
**WARNING** Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before repairing, adjusting, or disconnecting lines, be sure to relieve all pressure.

**WARNING** Never operate the 1500 Bale Carrier with frayed or damaged hoses or leaking fittings. A burst would cause the lift arm to drop suddenly and result in serious injury or death and cause damage to the loader or tractor.

- Before applying pressure to the system, be sure all connections are tight and the lines, pipes, and hoses are not damaged.
- Wear proper hand and eye protection when searching for leaks. Use a piece of wood or cardboard instead of hand to check for leaks.
- > Maintain all components in good working order.
- If injured by escaping fluid, see a doctor at once. Serious infection or toxic reaction can develop if proper medical treatment is not administered immediately.
- Regularly check the fluid level in the tractor reservoir and follow the maintenance procedures in the tractor Operator's Manual.
- Regularly inspect cylinders, hoses and fittings for leaks, crimps and abrasions or other signs of wear and tear or impending failure.
- Ensure hoses do not bind or stretch during operation. Always keep hoses tied or supported to prevent rubbing against sharp areas or being pinched. We suggest using tie wraps to support hoses.
- Replacement hoses must have a working pressure of 3000 psi (20685 kpa) or higher.

#### 3. Hydraulic Fitting Torques

| Thread    |           | Jam Nut or Straight |         | SAE 37° (JIC)     |         |
|-----------|-----------|---------------------|---------|-------------------|---------|
| Dash Size | Size      | ORB Fitting Torque  |         | Swivel Nut Torque |         |
|           | 5120      | (ft-lbs)            | (NM)    | (ft-lbs)          | (NM)    |
| -04       | 7/16-20   | 14-16               | 20-22   | 10-11             | 13-15   |
| -05       | 1/2-20    | 18-20               | 24-27   | 13-15             | 18-20   |
| -06       | 9/16-18   | 24-26               | 33-35   | 17-19             | 23-26   |
| -08       | 3/4-16    | 50-60               | 68-78   | 34-38             | 47-52   |
| -10       | 7/8-14    | 72-80               | 98-110  | 50-56             | 69-76   |
| -12       | 1-1/16-12 | 125-135             | 170-183 | 70-78             | 96-106  |
| -14       | 1-3/16-12 | 160-180             | 215-245 | 80-90             | 110-122 |
| -16       | 1-5/16-12 | 200-220             | 270-300 | 94-104            | 127-141 |
| -20       | 1-5/8-12  | 210-280             | 285-380 | 124-138           | 169-188 |
| -24       | 1-7/8-12  | 270-360             | 370-490 | 156-173           | 212-235 |

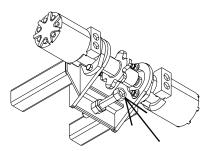




#### 1500 Bale Carrier

### 4. Chain

- Check for proper chain tension and sprocket alignment after first use and every 50 hours thereafter.
- Turn the front sprocket-adjusting bolt clockwise until there is approximately 6" (15 cm) of upward slack in the chain at the center of the track. Clockwise increases tension and counter clockwise reduces tension.
- Proper chain tension may be verified by raising the chain by hand.
- See lubrication section for further maintenance instructions.





#### 5. Wheels / Tires

- Inspect hub bolts after first use and 50 hrs thereafter. Hub bolts must be torqued to 125 ft-lb (170 Nm).
- > Thread-locking compound such as Locktite 242 is recommended for the hub bolts.
- > Ensure that dust caps are firmly in place.
- Check tires pressure regularly: 90 psi (620 kpa).
- The wheel bearings should be inspected and re-packed annually with SAE multi purpose type grease. Grease every 500hrs if hub is supplied with grease fitting.
- Air valve should face away from the hub.

### 6. Storage

**CAUTION** Place all controls in neutral, stop engine, set parking brake and remove ignition key before inspecting, servicing, adjusting or repairing the 1500 Bale Carrier.

**CAUTION** Ensure the 1500 Bale Carrier tires and hitch are securely blocked. Otherwise, verify the 1500 Bale Carrier is properly coupled to the drawbar on a tractor with a minimum of 12480 LB (5660 kg).

Start of Season

- Clean and inspect the bale carrier when taking it out of storage. Ensuring that the bale carrier is in optimum condition at the start of the season reduces the chances of a costly breakdown during the season.
- Clean and inspect chains and chain rollers for excessive wear or stiffness. Check for proper adjustment and alignment.
- Lubricate entire bale carrier. Ensure that all grease fittings are in place and taking grease properly.
- Operate the bale carrier for a short time. Check that all moving parts are operating freely. Check for hydraulic leaks.
- Inspect and repack wheel bearings with SAE multi purpose type grease.
- Replace and secure safety shields. Review safety regulations.
- > Check all bolts for tightness. Replace lost or worn bolts.
- > Check that tires are properly inflated.
- Review the Operator's Manual.

#### During The Season

- At the end of each day of operation park the bale carrier in a clean, dry, sheltered area.
- > Lubricate areas requiring daily lubrication.
- Remove any build up of hay or straw.

#### End Of Season

- Replace worn or damaged parts and replace if necessary. To avoid costly delays contact your dealer for replacement parts before the start of the next season.
- Store the bale carrier in a clean, dry, sheltered area.
- Replace all missing or broken bolts with bolts of similar size and grade.
- > Clean the baler carrier thoroughly. Dirt draws moisture that rusts metal.
- Repaint chipped or worn areas. Paint is available from your dealer.
- Clean chains and brush with SAE light machine oil (or equivalent) to prevent rust.
- ➢ Repaint the top of the carrier beams with graphite paint such as Slip Plate<sup>™</sup> to prevent rust.

#### 1500 Bale Carrier

## **APPENDIX LIST**

| Description           | Appendix |
|-----------------------|----------|
| Assembly Instructions | Α        |
| Hydraulic Assembly    |          |
| Electrical Assembly   |          |
| General Assembly      | D        |

## APPENDIX A

#### 1500 Bale Carrier

## Assembly Instructions

## Table of Contents

| Description                         | Page |
|-------------------------------------|------|
| Carrier Bundled Assembly            | 23   |
| Tandem Axle Assembly                | 23   |
| Brace Weldment                      | 23   |
| Taillight Assembly                  | 24   |
| Bale Retainer Weldment              | 24   |
| Fixed Loading Arm                   | 24   |
| Bale Deflector Arm Assembly         | 25   |
| RPU Assembly                        | 25   |
| Carrier Bundled Assembly Drawing    |      |
| Carrier Bundled Assembly Parts List |      |

**CAUTION** Make sure area is clear of obstructions, well lit, and has sufficient room for safe assembly. Do not work underneath raised assembly.

**CAUTION** Ensure the carrier's tires and hitch are securely blocked. Otherwise, verify the carrier is properly coupled to the drawbar on a tractor with a minimum of 12480 LB (5660 kg).

#### **Carrier Bundled Assembly**

#### 1. Tandem Axle Assembly Installation

Refer to Carrier Bundled Assembly drawing:

- Raise the main assembly to a maximum of three feet to insert the tandem axle assembly (A2400-14) on both sides. Make sure that the assembly is securely held in place. Support assembly with the appropriate rated stands for the load.
- Insert the tandem axle assembly on to the axle Beam (C2407-00).
- Insert the tandem axle locator (C8005-00) between the tandem axle assembly bushings, continue to insert the axle assembly.
- Insert nut (984077) and set screw (813547) into the locator.
- Install tires
- Torque all fasteners to the torque specifications listed in the maintenance section of this manual.
- > Lubricate axle and hubs; refer to lubrication section for details.
- Recheck all bolt torques after first use.

#### 2. Brace Weldment Installation

Refer to Carrier Bundled Assembly drawing:

- The carrier has six braces that need to be installed on the undercarriage of the main assembly.
- > All fasteners require a flat washer and a lock nut.
- Loosely assemble and fasten all braces.
- Torque all hardware to the required torque specifications listed on the maintenance section of this manual.

#### 3. Taillight Assembly

Refer to Carrier Bundled Assembly drawing:

- Remove and inspect all required hardware from parts box.
- Mount lights using fasteners supplied
- > Connect the taillight wiring harnesses to their appropriate connections.
- Connect main lighting plug to tractor.
- > Test by verifying correct lamps illuminate when signalling and braking.

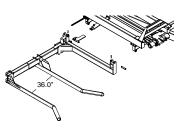
### 4. Bale Retainer Weldment

Remove the hardware from parts box and transfer on to bale retainer weldment. Place the weldment on the matching bolt holes in the position shown in Carrier Bundled Assembly drawing. Torque the provided hardware to the specifications listed on the bolt chart.

### 5. Fixed Loading Arm

**CAUTION** Stay clear of the arm when testing a finished assembly. Ensure during assembly to keep your entire body out from underneath parts that are being attached to the main frame.

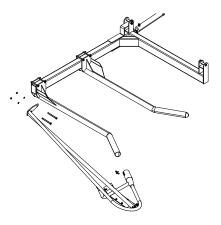
- Remove lift arm pivot pins that are installed on the carrier.
- Thoroughly lubricate all pins involved in the assembly with SAE multi purpose grease.
- Align arm to pivots with open end of arm facing forward and reinstall pins with hardware provided and torque to specifications called for in the bolt chart.
- Remove the lift cylinder pin from the arm.
- > Align the lift cylinder rod and reinstall the pin.
- Adjust the outside bale fork to be positioned at the end of the lift arm and the inner bale fork about 36" (91 cm) from the end.
- Recheck all hardware so that every bolted connection on the lift arm is torqued according to the specifications of the bolt chart.
- > Approach the bale and inspect to ensure the spacing of the forks is accurate.
- For first operation, cycle the lift arm slowly with a bale and inspect just before lifting bale from ground.
- Finish the cycle and observe how the bale transits from the forks to the carrier beam. If transition is smooth with minimum bale binding, assembly is completed. If not, adjust the forks to a different location and try until loading is smooth.



FIXED LIFT ARM ATTACHMENT ASSEMBLY LAYOUT

#### 6. Bale Deflector Arm Assembly

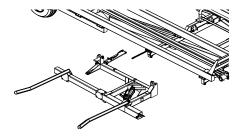
- Remove all hardware that is included with the deflector assembly.
- Remove the two top bolts from outer fork on lift arm.
- Maintain the spacing of the forks if already preset. If not, set spacing as described in the fixed pick up arm assembly section.
- Insert the coned end of the deflector onto the end of the outer fork.
- Align the bolt holes from the removed bolts on the outer fork and the end of the deflector attachment.
- Insert hardware supplied with the deflector the same way the hardware was installed before the attachment was added.
- Torque all hardware according to the bolt chart and tighten the set screws on the cone also according to the chart.
- During first bale lift, cycle slowly and watch for excessive flexing or movement of the deflector. If movement is detected, stop cycle and retorque all hardware involved.



BALE DEFLECTOR ATTACHMENT ASSEMBLY LAYOUT

#### 7. RPU Assembly

- Remove lift cylinder and install Pilot Check assembly (see Appendix B)
- Reinstall cylinder at base end only.
- Lubricate all pins involved in RPU attachment with a SAE multi purpose grease.
- Align arm to pivots with open end of arm facing away from the carrier and reinstall pins with hardware provided and torque to specifications called for in the bolt chart.
- Remove the lift cylinder pin from the RPU arm.



RPU ATTACHMENT ASSEMBLY LAYOUT

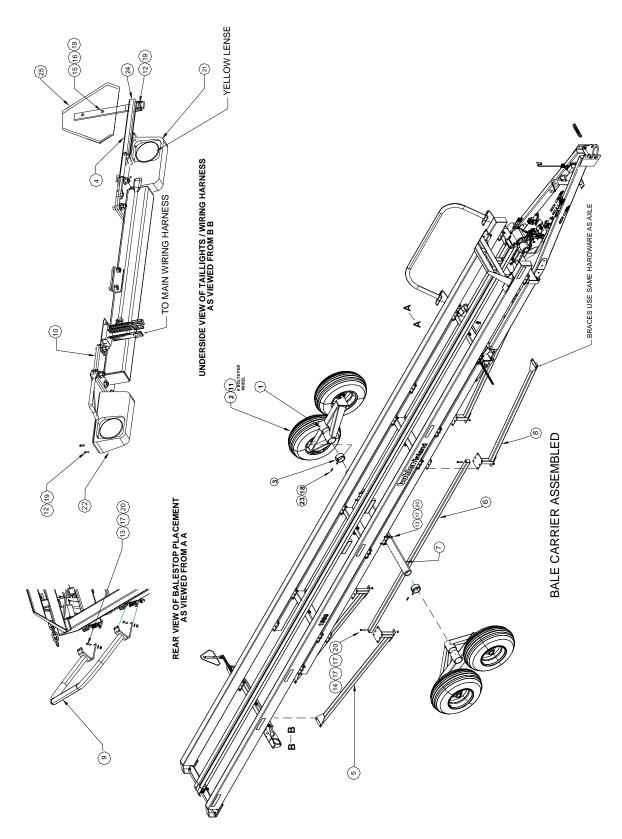
1500 Bale Carrier

- > Align the lift cylinder rod and reinstall the pin.
- Adjust the outside bale fork to be positioned at the end of the lift arm and the inner bale fork 6" (15 cm) to 8" (20 cm) bigger than the size of bale that is being loaded.
- $\succ$  Install the hydraulics according to the way the hydraulic assembly Appendix B calls for.
- ADJUSTABLE FORK BALE WIDTH +

ROTATING PICK UP ARM

- Recheck all hardware so that every bolted and hydraulic connection on the lift arm is torqued according to the specifications of the torque charts.
- > Depress LIFT ARM UP. The RPU cycle should begin with a squeeze action, then lift and rotate. After rotation is complete the lift continues until the bale is above the carrier beams.
- Release LIFT ARM UP when bale is above the carrier beam. Depress LIFT ARM DN to release the bale and return to around level ready for the next bale.
- > For the first operation, cycle the lift arm slowly with the bale and observe the RPU operation.
- > Approach the bale slowly; once the bale is captured in the forks press the lift switch. The bale is squeezed until the pressure in the sequence valve, which is preset at 1800 psi (12400 kpa), has been achieved
- > If bale is not held in between the forks increase the sequence valve pressure by turning the setscrew clockwise. Refer to the RPU Rotate Cylinder drawing for adjustment location of the setscrew. Verify that the fork spacing is accurate and refer to the drawing on this page for fork adjustments.
- > The lift and rotate sequence won't begin until the clamp pressure is met within the sequence valve.
- When the clamp pressure is met, the lifting action should start before the rotating action to minimize bale damage from the moving ground.
- > To increase lift prior to rotate turn the restrictor knob clockwise. Refer to the RPU Rotate Cylinder drawing for more information.
- Continue to raise the bale until it is positioned above the carrier beam.
- To release the bale, depress LIFT ARM DN.
- > Finish the cycle and observe how the bale transits from the forks to the carrier beam. If transition is smooth with minimum bale binding, assembly is completed. If not, adjust the forks to a different location and try until loading is smooth.

## **Carrier Bundled Assembly**



## **Carrier Bundled Assembly**

| ITEM | COMPONENT   | DESCRIPTION                            | QTY |
|------|-------------|--|-----|
|      | PART NUMBER |  |     |
| 1    | B2400-14    | AXLE ASSEMBLY                          | 2   |
| 2    | B2700-03    | TIRE ASSEMBLY                          | 4   |
| 3    | C2407-00    | TANDEM AXLE LOCATOR                    | 2   |
| 4    | C2907-00    | SMV BRACKET & TAIL LIGHT MOUNT         | 1   |
| 5    | C7035-00    | REAR BRACE WELD'T                      | 2   |
| 6    | C7036-00    | CENTER BRACE                           | 2   |
| 7    | C8005-00    | AXLE                                   | 1   |
| 8    | C8006-00    | FRONT BRACE WELD'T                     | 2   |
| 9    | C8009-00    | BALE RETAINER WELD'T-YELLOW            | 1   |
| 10   | INE7045-00  | LIGHT MOUNT BRACKET                    | 1   |
| 11   | 813653      | BOLT 0.563 NF X 1.75 (WB12)/HUB        | 24  |
| 12   | 81527       | BOLT HEX 0.25NC X 1.00 GR5 PL          | 10  |
| 13   | 967274      | BOLT HEX 0.500NC X 1.50 GR8 PL         | 34  |
| 14   | 81629       | BOLT HEX 0.500NC x 3.5 GR5 PL          | 4   |
| 15   | 81525       | BOLT HEX 0.250NC X 0.75 UNC GR5 PL     | 2   |
| 16   | 812624      | WASHER 0.250 FLAT BS PL                | 2   |
| 17   | 84048       | WASHER 0.500 FLAT SAE BS PL            | 42  |
| 18   | 948077      | NUT HEX JAM 0.500NC GR2PL              | 2   |
| 19   | 81922       | NUT LOCK (NYLON) 0.25NC GR B PL        | 12  |
| 20   | 813663      | NUT LOCK (STEEL) 0.500NC X 1.50 GRC PL | 38  |
| 21   | 814196      | LAMP-AG/DUAL/LH/4-WAY WP               | 1   |
| 22   | 814195      | LAMP-AG/DUAL/RH/4-WAY WP               | 1   |
| 23   | 813547      | SET SCREW SQHDCUP 0.500 NC             | 2   |
| 24   | 967075      | SMV SPADE MOUNT                        | 1   |
| 25   | 967066      | SMV SIGN                               | 1   |

## NOTE PAGE

1500 Bale Carrier

**NOTE:** 1) Hydraulic Assembly methods and layouts are common to the right and left sides. Only one side of each component is shown in this manual.

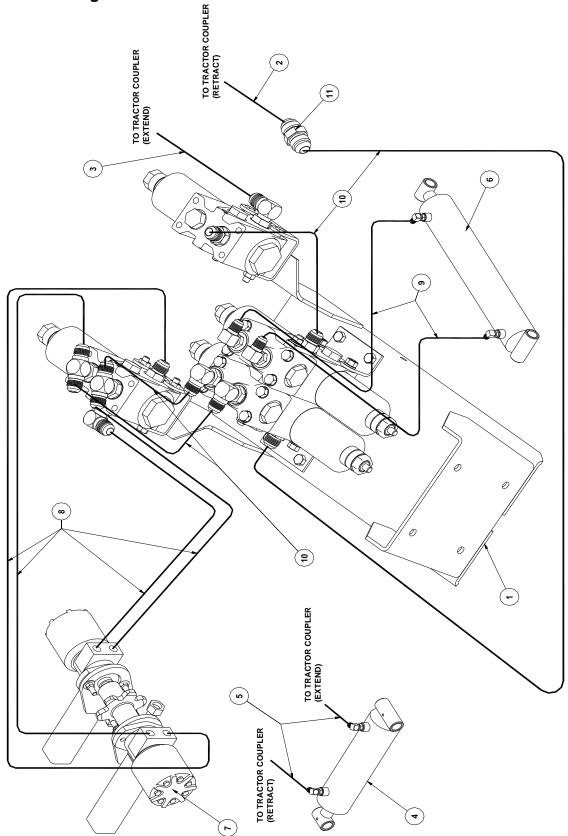
2) Seal Kits and Service Parts are only listed in the parts lists and are not indicated on the illustrations.

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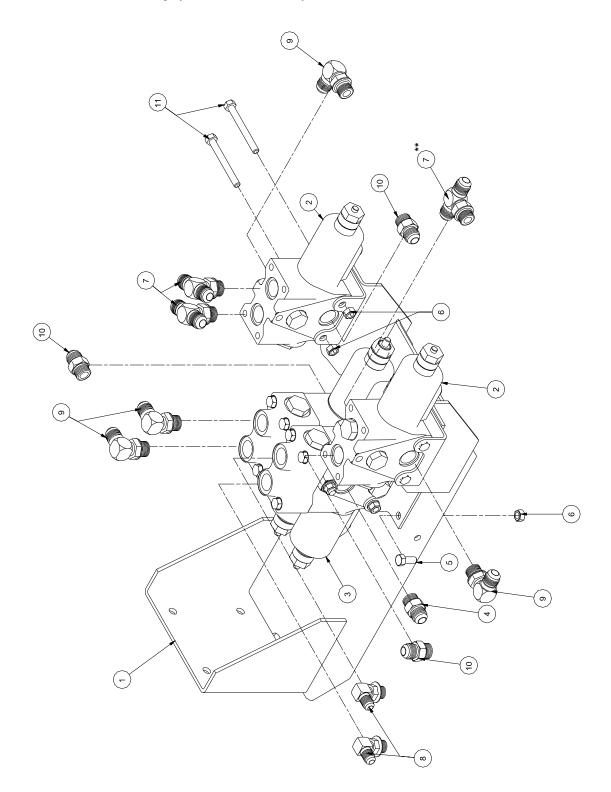
## Carrier Hydraulic Assembly Schematic (Part # A8000-04) Standard Configuration



## Carrier Hydraulic Assembly (Part # A8000-04) Standard Configuration

| Item | Component | Description                             |   |
|------|-----------|---|---|
|      | Part #    |   |   |
| 1    | A8002-01  | 1500 BALE CARRIER VALVE BANK ASSEMBLY   | 1 |
| 2    | A7010-00  | HYD ASSY 1/2 X 130 RETURN LINE          | 1 |
| 3    | A7011-00  | HYD ASSY 1/2 X 130 PRESSURE LINE        | 1 |
| 4    | A8012-00  | TILT CYLINDER ASSY 3 X 10 PIN EYED      | 1 |
| 5    | A8013-00  | TILT CYLI ASSY HYD 3/8 HOSE             | 2 |
| 6    | A7013-00  | TILT ASSY LIFT ARM CYLINDER             | 1 |
| 7    | A8011-00  | MOTOR MT ASSY 1500 BALE CARRIER 22.2 CU | 1 |
| 8    | 115001    | HOSE 1/2 X 24 3/4 SWFJIC X 7/8          | 4 |
| 9    | 812176    | HOSE 3/8 X 96 9/16 SWF X JIC            | 2 |
| 10   | 29105     | HOSE 1/2 X 28 3/4 SWFJIC                | 4 |
| 11   | 886704    | ADAPTOR STR 3/4 MJIC                    | 1 |



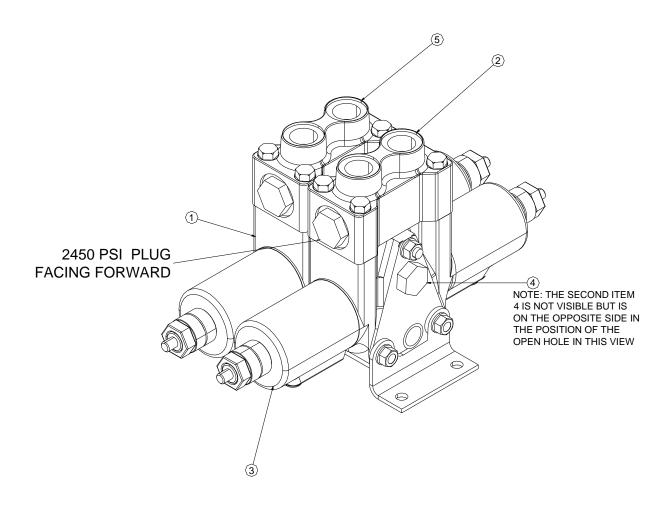


(\*\*) To be used only with OPEN-CENTER Configuration.

| ltem | Component<br>Part # | Description                     | Qty |
|------|---------------------|---------------------------------|-----|
| 1    | C8013-00            | VALVE BANK MOUNT WELDMENT       | 1   |
| 2    | B7010-00            | SERIES/PARALLEL VALVE (2-SPEED) | 2   |
| 3    | B8008-00            | VALVE ASSY FPS DIRECTIONAL      | 1   |
| 4    | E2781-00            | FLOW RESTRICTOR                 | 1   |
| 5    | 81549               | BOLT HEX 0.313NC X 0.75 GR5PL   | 4   |
| 6    | 812362              | NUT LOCK (STEEL) 0.313NC GRBPL  | 8   |
| 7    | 813667              | TEE RUN 1/2 MJIC X 3/4 MORB     | 3   |
| 8    | 811916              | ELBOW 90 3/4 MORB X 9/16 MJIC   | 2   |
| 9    | 811414              | ELBOW 90 3/4 MORB X 3/4 MJIC    | 4   |
| 10   | 812080              | ADAPTOR STR 3/4 MORB X 3/4 MJIC | 3   |
| 11   | 810582              | BOLT HEX 0.313NC X 3.00 GR5PL   | 4   |

## Valve Bank Assembly (Part # A8002-01)

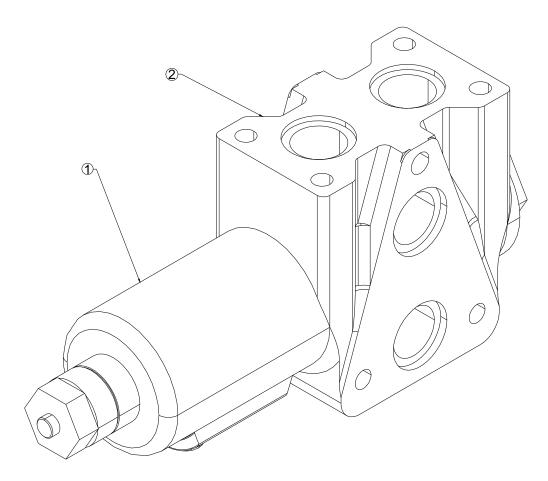
### FPS Directional Valve Assembly (Part # B8008-00)



#### **B8008-00 FPS Valve Service Parts**

| ltem | Compone<br>nt<br>Part # | Description                                   | Qty |
|------|-------------------------|---|-----|
| 1    | 22208-01                | MV4-17 SPOOL SECTION                          | 2   |
| 2    | 22149                   | CROSS OVER RELIEF VALVE BALE CARRIER SET 2400 | 1   |
| 3    | 222083-03               | C07-12TD COIL                                 | 4   |
| 4    | 812081                  | PLUG 3/4 MORB STL                             | 2   |
| 5    | 22208-02                | MV4-A LOCK VALVE                              | 1   |
| 6    | X2684                   | SEAL KIT VALVE BANK (ITEM NOT VISIBLE)        | 2   |

### Series/Parallel Valve Low and High Speed (Part # B7010-00)

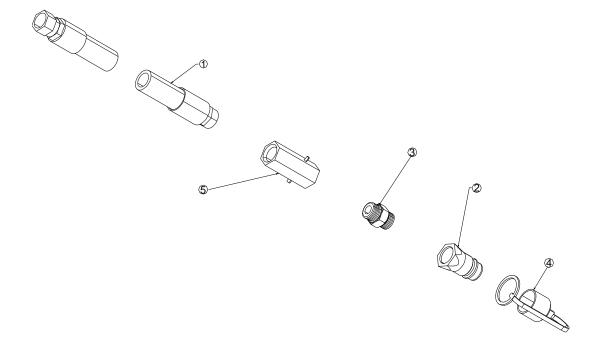


#### **B7010-00 Parallel Valve Service Parts**

| ltem | Component<br>Part # | Description                              | Qty |
|------|---------------------|--|-----|
| 1    | 22083-03            | C07-12TD COIL                            | 1   |
| 2    | 22083-01            | SERIES/PARALLEL VALVE (LOW & HIGH SPEED) | 1   |
| 3    | X2684               | SEAL KIT VALVE BANK (ITEM NOT VISIBLE)   | 1   |

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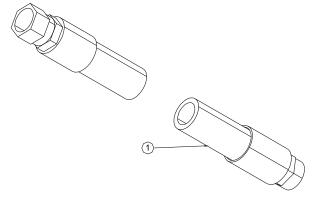
## Hydraulic Return Line Assembly (Part # A7010-00)

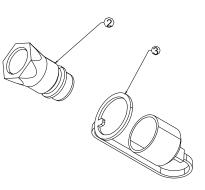


| ltem | Component<br>Part # | Description                     | Qty |
|------|---------------------|---------------------------------|-----|
| 1    | 29170               | HOSE 1/2 X 130 3/4 MORB X 3/4   | 1   |
| 2    | 812841              | MALE TIP 0.5 BODY 0.75 ORB      | 1   |
| 3    | 813119              | ADAPTOR STR 3/4 MORB X 3/4 MORB | 1   |
| 4    | 813305              | DUST CAP 0.5 BLACK              | 1   |
| 5    | 813666              | VALVE CHECK 3/4 ORB LINE        | 1   |

## Hydraulic Pressure Line Assembly (Part # A7011-00)

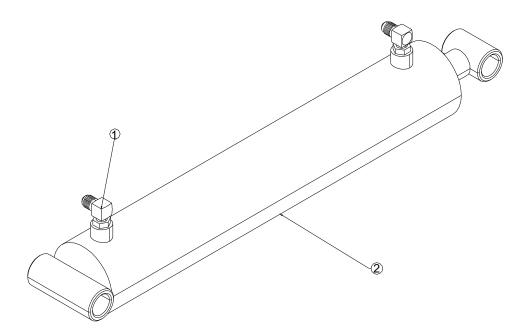
1500 Bale Carrier





| ltem | Component<br>Part # | Description                   | Qty |
|------|---------------------|-------------------------------|-----|
| 1    | 29170               | HOSE 1/2 X 130 3/4 MORB X 3/4 | 1   |
| 2    | 812841              | MALE TIP 0.5 BODY 0.75 ORB    | 1   |
| 3    | 813305              | DUST CAP 0.5 BLACK            | 1   |

## Carrier Tilt Cylinder Assembly (Part # A8012-00)



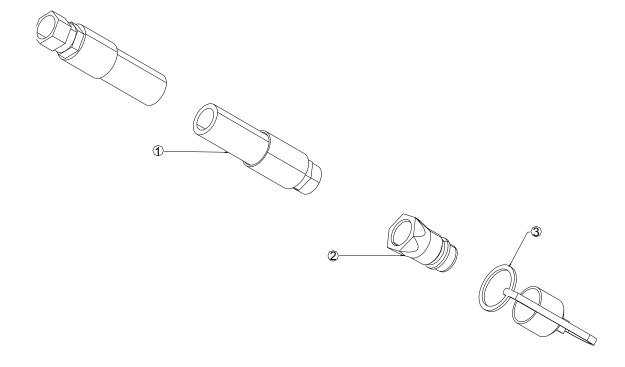
| Item | Component<br>Part # | Description                                   | Qty |
|------|---------------------|---|-----|
| 1    | 813640              | ELBOW 90 9/16 MORB ADJ 9/16 MJIC              | 2   |
| 2    | 24895               | CYLINDER 3.0 DIA X 10 PIN EYED W / RESTRICTOR | 1   |

### 24895 Cylinder 3.0 Diameter Service Parts

| Component<br>Part # | Description                    | Qty |
|---------------------|--------------------------------|-----|
| 812655              | LOCKNUT 0.875 NF               | 1   |
| X2353               | SEAL KIT FOR ITEM 24895        | 1   |
| 24899               | TUBE WELDMENT 3.0 DIA          | 1   |
| 115288              | SHAFT WELDMENT 1.25 X 16.75 LG | 1   |
| 24897               | HEADPLATE 3.0 X 1.250 ROD      | 1   |

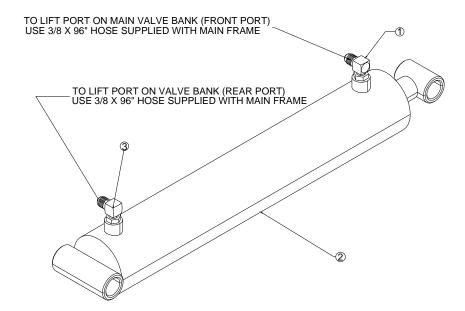
1500 Bale Carrier

## Carrier Tilt Cylinders Hydraulic 3/8 Line (Part # A8013-00)



| ltem | Component<br>Part # | Description                        | Qty |
|------|---------------------|------------------------------------|-----|
| 1    | 29174               | HOSE 3/8 X 168 9/16 SWFJIC X 3/4RB | 1   |
| 2    | 812841              | MALE TIP 0.5 BODY 0.75 ORB         | 1   |
| 3    | 813303              | DUST CAP 0.5 RED                   | 1   |

#### Fixed Pick Up Cylinder Assembly (Part # A7013-00)

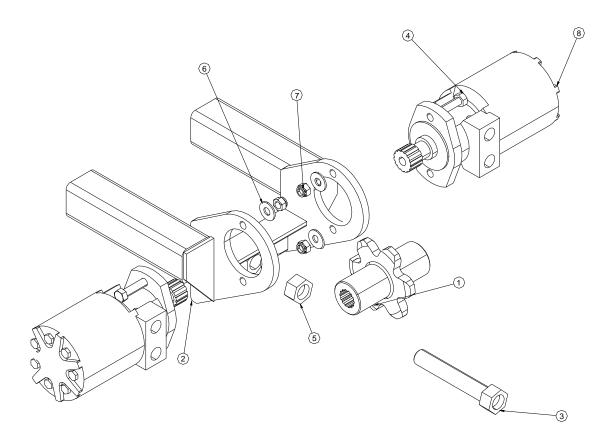


| ltem | Component<br>Part # | Description                      | Qty |
|------|---------------------|----------------------------------|-----|
| 1    | 813640              | ELBOW 90 9/16 MORB ADJ 9/16 MJIC | 1   |
| 2    | 22510               | CYLINDER 3.0 DIA X 16 INLAND     | 1   |
| 3    | E2872-00            | ELBOW RESTRICTOR MALE 90°        | 1   |

#### 22510 Cylinder 3.0 Diameter Service Parts

| Component<br>Part # | Description                 | Qty |
|---------------------|-----------------------------|-----|
| 813407              | LOCKNUT 1.00 NF             | 1   |
| X2504               | SEAL KIT FOR ITEM 22510     | 1   |
| 24957               | TUBE WELDMENT 3.0 DIA       | 1   |
| 115519              | SHAFT WELDMENT 1.50 X 22.63 | 1   |
| 24598               | HEAD PLATE 3.0 X 1.50       | 1   |

## Pusher Motor Assembly (Part # A8011-00)

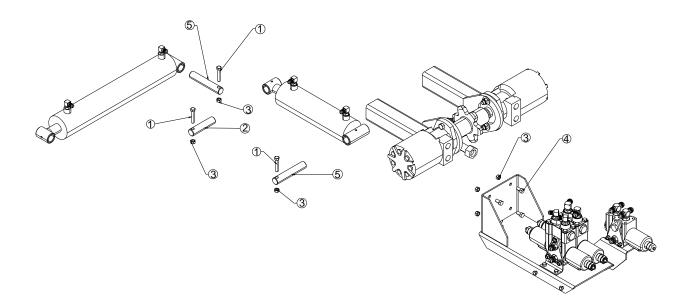


| Item | Component<br>Part # | Description                       | Qty |
|------|---------------------|-----------------------------------|-----|
| 1    | C7031-00            | SPROCKET DRIVE WELDMENT           | 1   |
| 2    | C7030-00            | MOTOR 22.2 CU MT WELDT            | 1   |
| 3    | C2768-00            | SPROCKET ADJUSTING BOLT FRONT 1NC | 1   |
| 4    | 967275              | BOLT HEX 0.500 NC X 2.00 GR8PL    | 4   |
| 5    | 84051               | NUT HEX JAM 1.00 NC GR2           | 1   |
| 6    | 84048               | WASHER 0.500 FLAT SAE BS PL       | 4   |
| 7    | 813663              | NUT LOCK (STEEL) 0.500 NC GRCPL   | 4   |
| 8    | B2799-00            | MOTOR 22.2 CU PAINT YELLOW        | 2   |

#### **B2799-00 Motor Service Parts**

| Component<br>Part # | Description           | Qty |
|---------------------|-----------------------|-----|
| X2725               | SEAL KIT FOR B2799-00 | 1   |

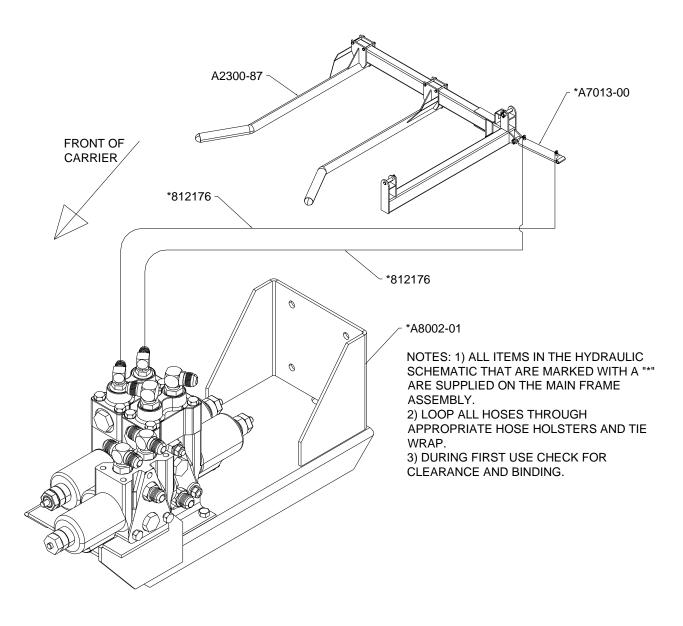
### Carrier Hydraulic Assembly Hardware (Part # A8000-04)



Note: Open-Center Valve is not shown

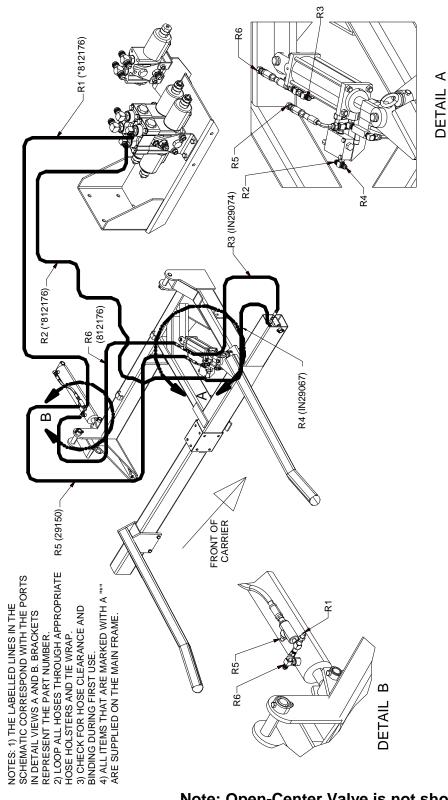
| ltem | Component<br>Part # | Description                     | Qty |
|------|---------------------|---------------------------------|-----|
| 1    | 811795              | BOLT HEX 0.375 NC X 2.00 GR5PL  | 3   |
| 2    | E2345-00            | CYL PIN 1 DIA X 4.5             | 1   |
| 3    | 812363              | NUT LOCK (STEEL) 0.375 NC GRBPL | 7   |
| 4    | 84072               | BOLT HEX 0.375 NC X 0.75 GR5PL  | 4   |
| 5    | E1932-00            | CYL PIN 1 DIA X 5 9/16 C1045    | 2   |





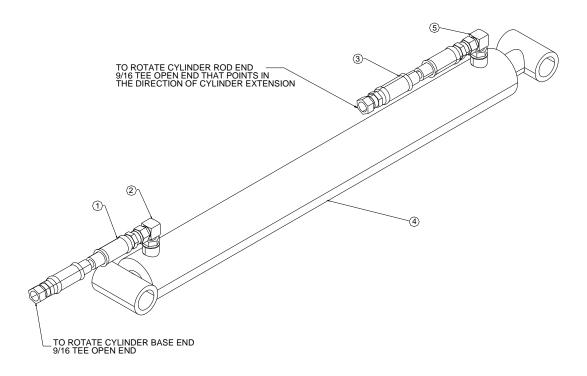
#### Note: Open-Center Valve is not shown







### **RPU Squeeze Cylinder (Part # A2400-35)**

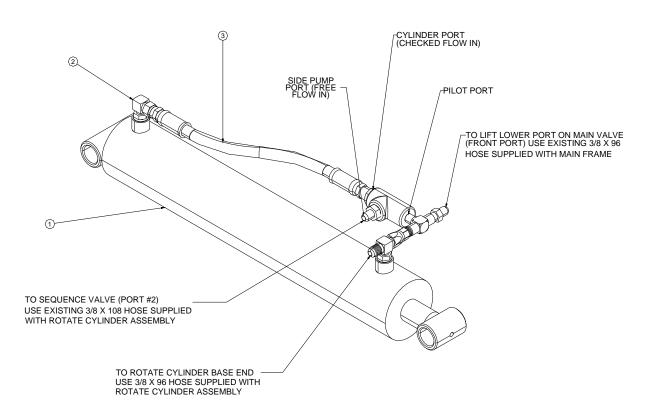


| ltem | Component<br>Part # | Description                  | Qty |
|------|---------------------|------------------------------|-----|
| 1    | IN29074             | HOSE 3/8 X 60 9/16 SWFJIC    | 1   |
| 2    | 813640              | ELBOW 90 9/16 MORB ADJ X 3/8 | 1   |
| 3    | IN29067             | HOSE 3/8 X 68 9/16 SWFJIC    | 1   |
| 4    | 24367               | CYLINDER 2.0 X 18.0 INLAND   | 1   |
| 5    | 813640              | ELBOW 90°9/16 MORB ADJ X 3/8 | 2   |

### 24367 Cylinder 2.0 Diameter Service Parts

| Component<br>Part # | Description                         | Qty |
|---------------------|-------------------------------------|-----|
|                     |                                     |     |
| 811843              | NOT GREASE NIPPLE 90 DEGREES        | 1   |
| X1348               | SEAL KIT FOR 24367 2.0 DIA CYLINDER | 1   |
| 83224               | BACKUP WASHER 1.75 ID X 2.00 OD     | 1   |
| 812655              | 0.875 UNF LOCKNUT                   | 1   |
| 114521              | 2.00 DIA PISTON HALF (NARROW)       | 1   |
| 114520              | 2.00 DIA PISTON HALF (WIDE)         | 1   |
| 24366               | 2.00 DIA TUBE WELDMENT              | 1   |
| 115042              | SHAFT WELDMENT 1.25 DIA X 24.125 LG | 1   |
| 24516               | 2.00 DIA HEAD PLATE                 | 1   |

1500 Bale Carrier RPU Lift Cylinder (Part # A2400-37 Assembled To Existing 22510 Cylinder)

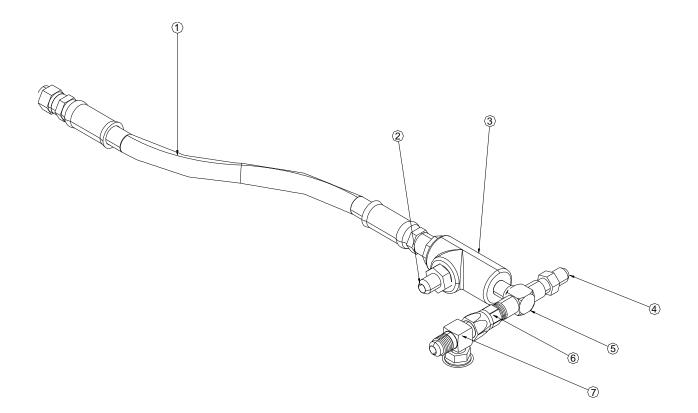


| ltem | Component<br>Part # | Description                  | Qty |
|------|---------------------|------------------------------|-----|
| 1    | 22510               | CYLINDER 3.0 DIA X 16 INLAND | 1   |
| 2    | E2872-00            | RESTRICTOR ELBOW MALE 90°    | 1   |
| 3    | A2400-37            | PILOT CHECK VALVE ASSEMBLY   | 1   |

#### 22510 Cylinder 3.0 Diameter Service Parts

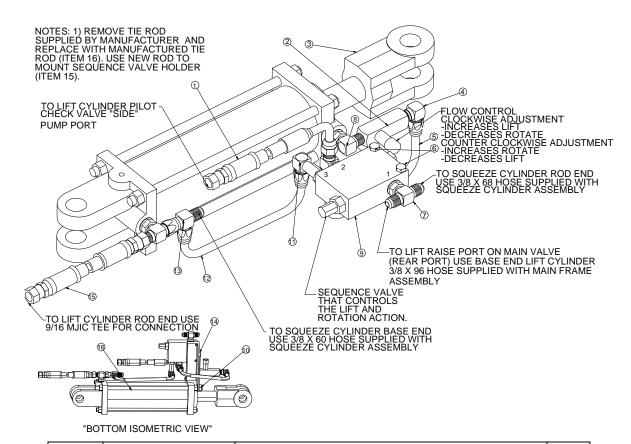
| Component<br>Part # | Description                 | Qty |
|---------------------|-----------------------------|-----|
| 813407              | LOCKNUT 1.00 NF             | 1   |
| X2504               | SEAL KIT FOR ITEM 22510     | 1   |
| 24957               | TUBE WELDMENT 3.0 DIA       | 1   |
| 115519              | SHAFT WELDMENT 1.50 X 22.63 | 1   |
| 24598               | HEAD PLATE 3.0 X 1.50       | 1   |

## Pilot Check Valve Assembly (Part # A2400-37)



| ltem | Component<br>Part # | Description                          | Qty |
|------|---------------------|--------------------------------------|-----|
| 1    | IN29098             | HOSE 3/8 X 14 3/8 FNPT X 9/16 SWFJIC | 1   |
| 2    | 29043               | ADAPTOR STR 9/16 MJIC X 3/8 MNPT     | 1   |
| 3    | 22203               | PILOT CHECK VALVE PC-37              | 1   |
| 4    | 29020               | CONNECTOR 9/16 MJIC X 1/4 MNPT       | 1   |
| 5    | 29023               | TEE 1/4 FNPT RUN X 1/4 MNPT          | 1   |
| 6    | 29039               | ADAPTOR STR 1/4 MNPT X 9/16 FJIC     | 1   |
| 7    | 29015               | TEE 9/16 MJIC RUN X 9/16 MORB        | 1   |

#### **RPU Rotate Cylinder (Part # A2400-36)**

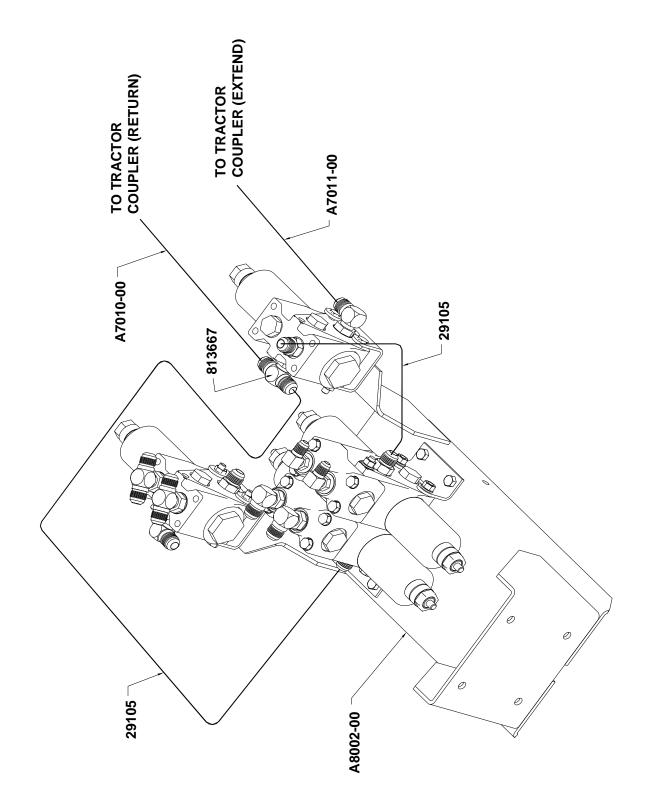


| Item | Component<br>Part # | Description                      | Qty |
|------|---------------------|----------------------------------|-----|
| 1    | 29150               | HOSE 3/8 X 108 9/16 SWFJIC X 3   | 1   |
| 2    | 29149               | RESTRICTOR ONE WAY ADJ PARKER    | 1   |
| 3    | 22060               | 3 X 8 TIE ROD CYLINDER           | 1   |
| 4    | 29016               | ELBOW 90 1/4 MNPT X 9/16 MJIC    | 1   |
| 5    | 20877               | PRESSURE LINE / SEQUENCE TUBE    | 1   |
| 6    | 811631              | BOLT HEX JAM 0.500 NC GR2PL      | 2   |
| 7    | 29015               | TEE 9/16 MJIC RUN X 9/16 MJIC    | 3   |
| 8    | 29022               | ELBOW 90 1/4 MNPT X 9/16 MORB    | 1   |
| 9    | 22075               | SUN SEQUENCE VALVE SET 1800 psi  | 1   |
| 10   | 984077              | NUT HEX JAM 0.500 NC GR2PL       | 1   |
| 11   | 29047               | ELBOW 90 9/16 MORB X 3/8 MJIC LG | 1   |
| 12   | 813691              | SEQUENCE VALVE VENT TUBE         | 1   |
| 13   | 887572              | TEE 9/16 MJIC X 9/16 SWFJIC      | 1   |
| 14   | E2430-00            | SEQUENCE VALVE HOLDER            | 1   |
| 15   | 812176              | HOSE 3/8 X 96 9/16 SWFJIC X 3    | 1   |
| 16   | E2478-00            | HYDRAULIC CYLINDER TIE ROD       | 1   |

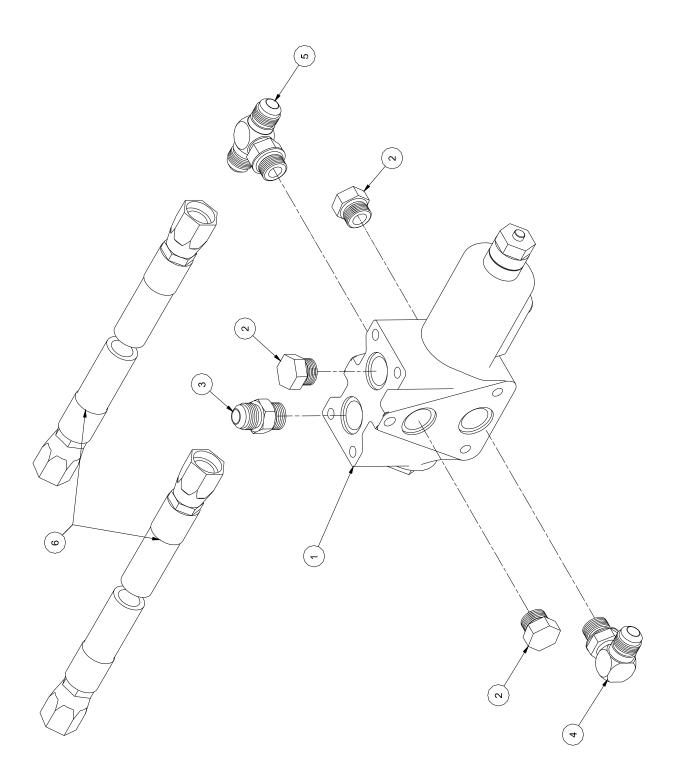
#### 22060 Cylinder 3.0 Diameter Service Parts

| Component<br>Part # | Description                 | Qty |
|---------------------|-----------------------------|-----|
| 22060-02            | SEAL KIT FOR 22060 CYLINDER | 1   |

### **Open-Center Configuration Schematic**



### Open-Center Valve (Part # A7016-00) Open-Center Configuration



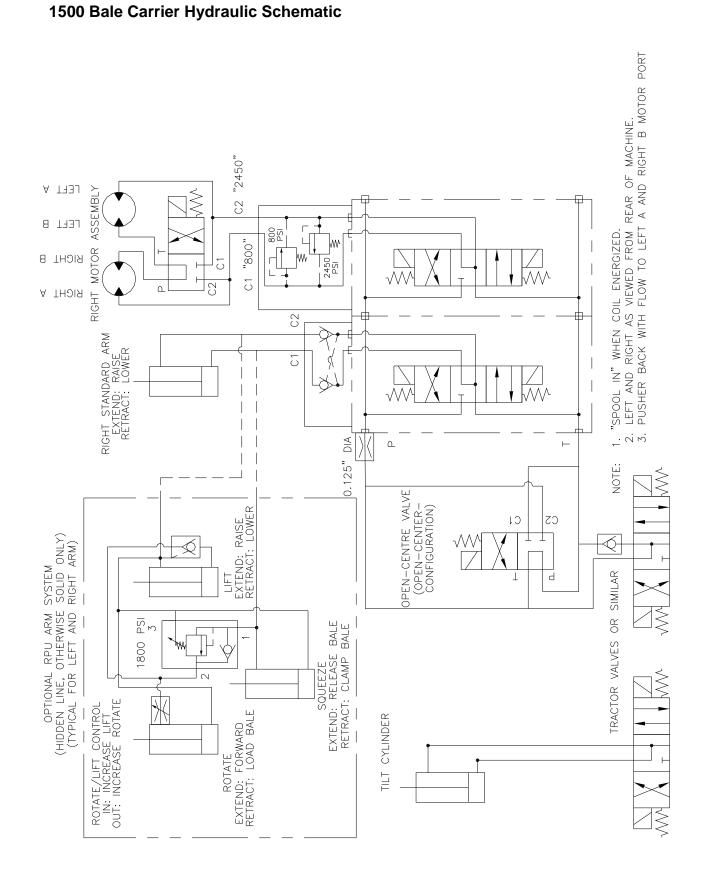
### Open-Center Valve (Part # A7016-00) Open-Center Configuration

| ltem | Component<br>Part # | Description                     | Qty |
|------|---------------------|---------------------------------|-----|
| 1    | B7010               | SERIES/PARALLEL VALVE           | 1   |
| 2    | 812081              | PLUG 3/4 MORB STL 721-FS0-08    | 3   |
| 3    | 812080              | ADAPTOR STR 3/4 MORB X 3/4 MJIC | 1   |
| 4    | 811414              | ELBOW 90 3/4 MORB X 3/4 MJIC    | 1   |
| 5    | 813667              | TEE RUN 3/4 MJIC X 3/4 MORB     | 1   |
| 6    | 29105               | HOSE 1/2 X 28 - 3/4 SWFJIC      | 2   |

#### **B7010-00 Parallel Valve Service Parts**

| Component<br>Part # | Description                              | Qty |
|---------------------|--|-----|
| 22083-03            | C07-12TD COIL                            | 1   |
| 22083-01            | SERIES PARALLEL VALVE (LOW & HIGH SPEED) | 1   |
| X2684               | SEAL KIT VALVE BANK                      | 1   |

#### 1500 Bale Carrier



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#### APPENDIX C

**Electrical Assembly** 

**WARNING** Read and understand the safety messages listed in the 1500 Bale Carrier operator manual. Shut off all power to unit before inspecting, servicing, adjusting or repairing the 1500 Bale Carrier.

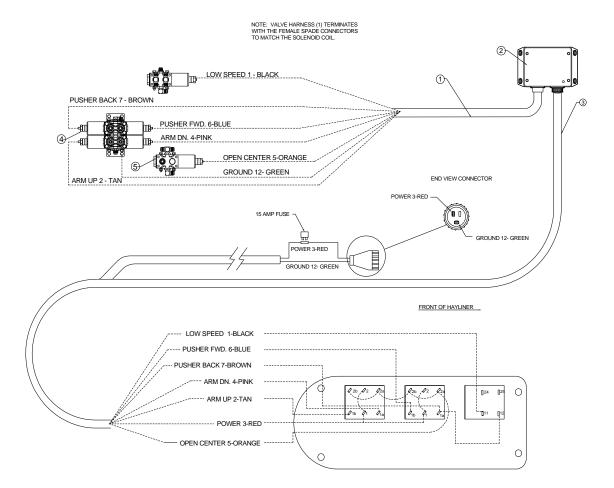
**WARNING** For proper operation of the Snubber, power must be supplied to the RED power wire from the control handle. Ensure that there is a 15-amp fuse in place to protect this circuit. Verify prior to installing Snubber. Incorrect wiring will result in electrical failure.

**NOTE:** The snubber unit is designed to protect the momentary control switches. The snubber minimizes coil voltage discharge during the de-energizing of the valve solenoid coils. There are no serviceable parts within the unit. Ensure that all electrical connections are clean and dry. Test the 1500 Bale Carrier and view to see if the hydraulic system is operating correctly. If any wires are damaged or cut, the schematic on the next page will assist in repair and maintenance. All wire is 18 gage.

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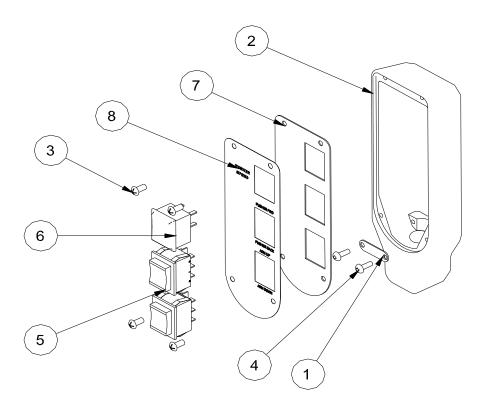
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|----------------------|------|
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| Electrical Assembly  | 57   |

### **Electrical Schematic**



| ltem | Component<br>Part # | Description                           | Qty |
|------|---------------------|---------------------------------------|-----|
| 1    | A8018-02            | MACHINE HARNESS 1500 BALE CARRIER     | 1   |
| 2    | 813949              | SNUBBER UNIT                          | 1   |
| 3    | 120024              | CONTROL HANDLE HARNESS ASSY 1500      | 1   |
| 4    | A8002-01            | VALVE BANK ASSEMBLY 1500 BALE CARRIER | 1   |
| 5    | A7016-00            | OPTIONAL OPEN CENTER KIT              | 1   |

## Control Handle Assembly (Part # 120024)



| ltem | Component<br>Part # | Description                         | Qty |
|------|---------------------|-------------------------------------|-----|
| 1    | INE22105-01         | WIRE CLAMP PLATE                    | 1   |
| 2    | 22105               | CONTROL HANDLE                      | 1   |
| 3    | 813539              | 8-32 X 3/8 TRUSS HEAD MACHINE SCREW | 4   |
| 4    | 813540              | 8-32 X 1/2 ROUND HEAD MACHINE SCREW | 2   |
| 5    | 814445              | ROCKER SWITCH ON/OFF/ON MOMENTARY   | 2   |
| 6    | 813779              | ROCKER SWITCH ON / OFF              | 1   |
| 7    | I100016             | SWITCH COVER PLATE - 1500           | 1   |
| 8    | 814448              | DECAL BUHLER 1500                   | 1   |

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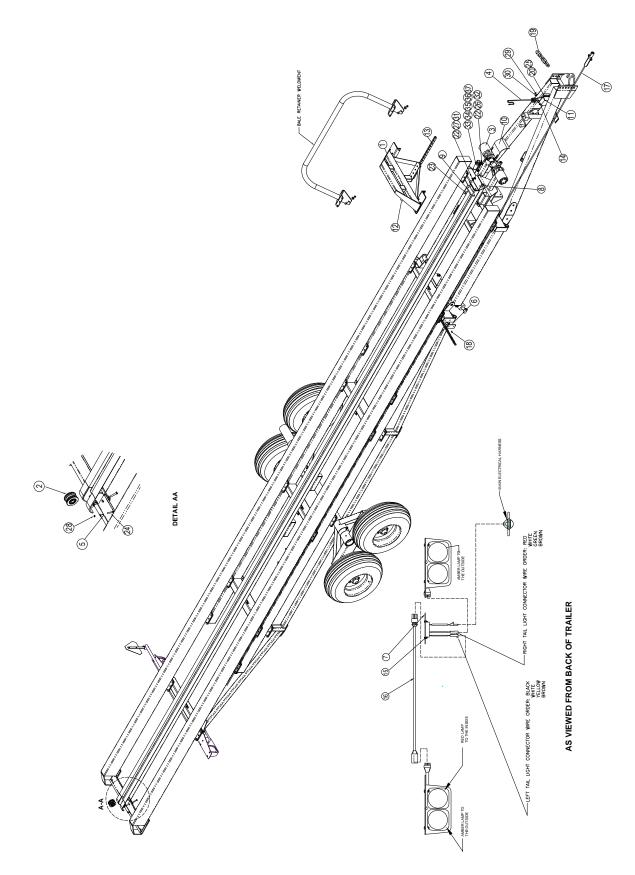
### APPENDIX D

### **General Assembly**

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## Carrier Final Assembly (Part # A8000-04)



1500 Bale Carrier

## Carrier Final Assembly (Part # A8000-04)

| ltem | Component<br>Part # | Description   | Qty   |
|------|---------------------|---|-------|
| 1    | A7006-00            | PUSHER ASSEMBLY   | 1     |
| 2    | A7008-00            | CHAIN GUIDE ROLLER ASSEMBLY                             | 1     |
| 3    | A8011-00            | MOTOR MOUNT ASSEMBLY                                    | 1     |
| 4    | B2363-00            | HOSE HOLDER   | 1     |
| 5    | E2345-00            | CYL PIN / 1.0" X 4 1/4"                                 | 1     |
| 6    | E2413-00            | ARM CUSHION   | 1     |
| 7    | E2937-00            | PLATE 1500/2500 LIGHTING KIT                            | 1     |
| 8    | E7038-00            | MOUNTING BRACKET / SHIELD                               | 1     |
| 9    | E7040-00            | CUSHION / PUSHER STOP                                   | 1     |
| 10   | INE7039-00          | SHIELD / CHAIN DRIVE                                    | 1     |
| 11   | 813949              | SNUBBER UNIT 1500/2500 BALE CARRIER                     | 1     |
| 12   | 813643              | C2080H CONNECTOR LINK HD                                | 2     |
| 13   | 52955-456           | C2080H ROLLER CHAIN                                     | 76'   |
| 14   | 81620               | CAPSCREW 0.500NC X 1.250 GR 5 ZPL                       | 1     |
| 15   | 814193              | ENHANCED AG LIGHTING MODULE                             | 1     |
| 16   | 814199              | EXTENSION HARNESS 27" LONG                              | 1     |
| 17   | 814198              | MAIN HARNESS 48 FT LONG 7 PIN PLUG                      | 1     |
| 18   | 813602              | RIVET 1/4" X 3/4" FLHD                                  | 2     |
| 19   | 814434              | SAFETY CHAIN 20M GVW                                    | 1     |
| 20   | 813958              | SCREW MACH #8-32X 0.75                                  | 6     |
| 21   | 99053               | SLIP PLATE BEAM COATING (ITEM NOT VISBLE)               | 1 QT. |
| 22   | 81549               | BOLT HEX 0.313NC X 0.75GR5 PL                           | 6     |
| 23   | 81552               | BOLT HEX 0.313NC X 1.25GR5 PL                           | 2     |
| 24   | 811795              | BOLT HEX 0.375NC X 2.00GR5 PL                           | 1     |
| 25   | 812537              | NUT LOCK (NYLOCK) #8-32 STEEL                           | 6     |
| 26   | 84541               | NUT LOCK (NYLON) 0.313NC GR8PL                          | 4     |
| 27   | 812362              | NUT LOCK (STEEL) 0.313NC GR8PL                          | 4     |
| 28   | 812363              | NUT LOCK (STEEL) 0.375NC GR8PL                          | 1     |
| 29   | 812364              | NUT LOCK (STEEL) 1/2" NC GR. 8 ZPL.                     | 1     |
| 30   | 813581              | WASHER FLAT 0.5X0.531X0.25 PL                           | 1     |
| 31   | 81570               | WASHER FLAT STD 0.375 HS PL                             | 4     |
| 32   | 81546               | WASHER 0.313 FLAT STD HS PL                             | 1     |
| 33   | 909277              | MANUAL HOLDER   | 1     |
| 34   | 46912               | OPERATOR'S & PARTS MANUAL                               | 1     |
| 35   | 814433              | WARRANTY REGISTRATION SHEET                             | 1     |
| 36   | 814449              | GOODYEAR TIRE WORKMANSHIP WARRANTY<br>(700-862-905-128) | 1     |
| 37   | 814450              | GOODYEAR TIRE STUBBLE WARRANTY<br>(700-862-905-129)     | 1     |

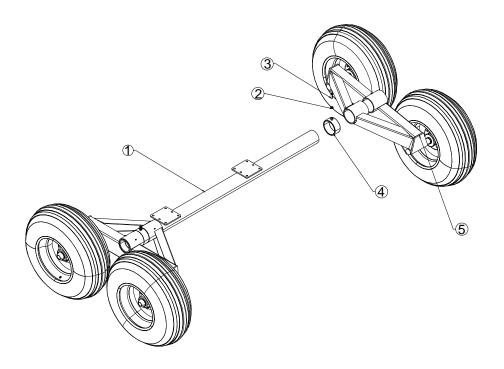


1500 Bale Carrier

## Carrier Initial Assembly (Part # A8000-04)

| ltem | Component<br>PART # | Description                     | Qty |
|------|---------------------|---------------------------------|-----|
| 1    | C2369-00            | НІТСН                           | 1   |
| 2    | C7055-00            | OUTER CARRIER BEAM              | 2   |
| 3    | C7057-01            | CHAIN GUIDE WELDMENT            | 1   |
| 4    | C8003-01            | SUBFRAME                        | 1   |
| 5    | C8004-01            | REAR CROSSMEMBER                | 1   |
| 6    | C8010-00            | SAFETY CHAIN WELD'T             | 1   |
| 7    | C8014-00            | L.H. HITCH BEAM                 | 1   |
| 8    | C8015-00            | R.H. HITCH BEAM                 | 1   |
| 9    | C8016-00            | HITCH CROSSMEMBER WELDT         | 1   |
| 10   | C8017-01            | FRONT CROSSMEMBER               | 1   |
| 11   | E2445-00            | LIFT ARM PIN                    | 2   |
| 12   | INE7003-01          | REAR CHAIN CROSSMEMBER          | 1   |
| 13   | 813646              | GREASE FITTING 0.250NF DRIVEN   | 4   |
| 14   | 813647              | SCREW JACK 3.50 TON             | 1   |
| 15   | 812288              | BOLT CARR 0.500NC X 1.25GR5 ZPL | 4   |
| 16   | 81581               | BOLT HEX 0.375NC X 2.50GR5 PL   | 2   |
| 17   | 81620               | BOLT HEX 0.500NC X 1.25GR5 PL   | 16  |
| 18   | 967274              | BOLT HEX 0.500NC X 1.50GR8 PL   | 78  |
| 19   | 967275              | BOLT HEX 0.500NC X 2.00GR8 ZPL. | 16  |
| 20   | 813515              | BOLT HEX 0.750NC X 2.50GR8 PL   | 4   |
| 21   | 812363              | NUT LOCK (STEEL) 0.375NC GR8 PL | 4   |
| 22   | 812364              | NUT LOCK (STEEL) 0.500NC GR8 PL | 16  |
| 23   | 813663              | NUT LOCK (STEEL) 0.500NC GR8 PL | 98  |
| 24   | 813648              | NUT LOCK (STEEL) 0.750NC GR8 PL | 4   |
| 25   | 813590              | WASHER FLAT 1.25X0.781X0.25 PL  | 8   |
| 26   | 84048               | WASHER FLAT SAE 0.500 BS PL     | 110 |

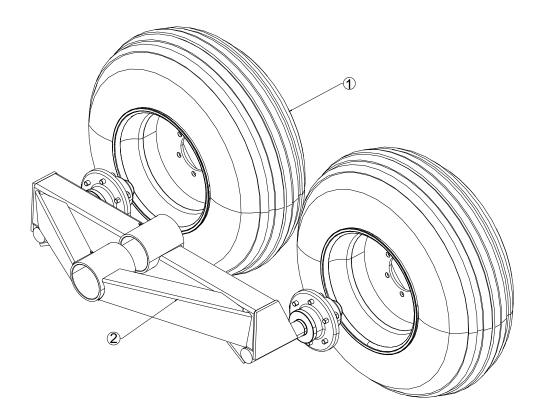
## Complete Tandem Axle Assembly



| ltem | Component<br>Part # | Description                         | Qty |
|------|---------------------|-------------------------------------|-----|
| 1    | C8005-00            | AXLE BEAM WELDMENT                  | 1   |
| 2    | 984077              | NUT HEX JAM 0.500NC GR2 PL          | 2   |
| 3    | 813547              | SETSCREW SQHDCUP 0.500 NC           | 2   |
| 4    | C2407-00            | TANDEM AXLE / 1500 LOCATOR WELDMENT | 2   |
| 5    | B2400-14            | AXLE ASSEMBLY                       | 2   |

1500 Bale Carrier

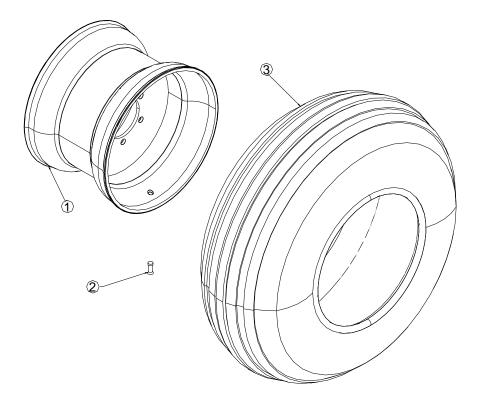
Tandem Axle / 1500 (A2400-14)



| ltem | Component<br>Part # | Description                            | Qty |
|------|---------------------|--|-----|
| 1    | B2700-03            | TIRE ASSEMBLY 1500 / 2500 BALE CARRIER | 2   |
| 2    | B2400-14            | TANDEM AXLE 1500 / HUB ASSEMBLY        | 1   |

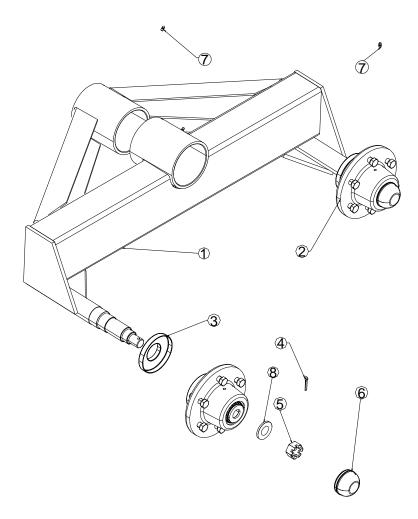
1500 Bale Carrier

Tire Assembly (Part # B2700-03)



| ltem | Component<br>Part # | Description                                   | Qty |
|------|---------------------|---|-----|
| 1    | 813655              | 15 X 10lb X 6 BOLT P65 RIM                    | 4   |
| 2    | 813656              | TR-416-MS VALVE STEM WITH CAP                 | 4   |
| 3    | 813657              | TIRE 12.5 X 15FI 12 PLY RANGE F FARM HWY TIRE | 4   |

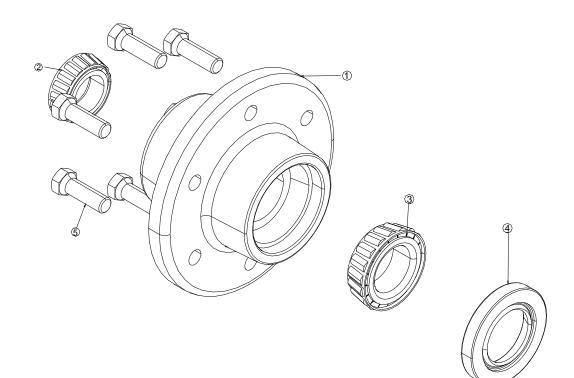
## Tandem Axle Assembly (Part # B2400-14)



| Item | Component | Description                           | Qty |
|------|-----------|---------------------------------------|-----|
|      | Part #    |                                       |     |
| 1    | C2406-00  | TANDEM AXLE 1500 WELDMENT             | 1   |
| 2    | C2339-00  | HUB ASSEMBLY                          | 2   |
| 3    | 813649    | DUST SHIELD                           | 2   |
| 4    | 81206     | 3/16" X 1-1/2 " COTTER PIN BLACK      | 2   |
| 5    | 813673    | NUT CASTLE 1.00 NF                    | 2   |
| 6    | 813650    | DUST CAP                              | 2   |
| 7    | 813646    | GREASE FITTING 1/4 DRIVEN             | 4   |
| 8    | 813651    | WASHER FLAT 1-1/32" X 2" X .188" BLK. | 2   |

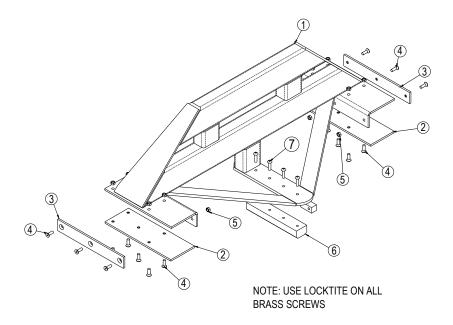
1500 Bale Carrier

Hub Assembly (Part # C2339-00)



| ltem | Component<br>Part # | Description        | Qty |
|------|---------------------|--------------------|-----|
| 1    | 813652              | 6 BOLT WHEEL HUB   | 1   |
| 2    | 967205              | BEARING CONE OUTER | 1   |
| 3    | 967208              | BEARING CONE INNER | 1   |
| 4    | 967204              | OIL SEAL SAE-30    | 1   |
| 5    | 813653              | 9/16" HUB BOLT     | 6   |

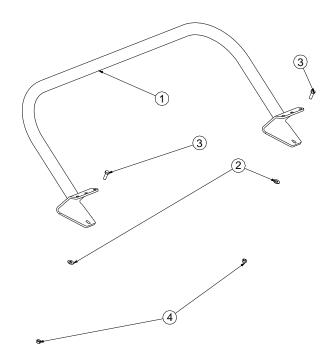
## Pusher Assembly (Part # A7006-00)



| ltem | Component<br>Part # | Description                    | Qty |
|------|---------------------|--------------------------------|-----|
| 1    | C7027-00            | PUSHER                         | 1   |
| 2    | E2749-00            | TOP SLIDER                     | 2   |
| 3    | E2750-00            | SIDE SLIDER                    | 2   |
| 4    | 813558              | SCREW MACH M8 X 20 FLHD BRASS  | 16  |
| 5    | 813561              | NUT HEX M8 BRASS               | 16  |
| 6    | E7032-00            | CENTER SLIDER                  | 1   |
| 7    | 813644              | SCREW MACH 0.313NC X 1.25 RDHD | 4   |

## Bale Stop Bundle (Part # A8003-00)

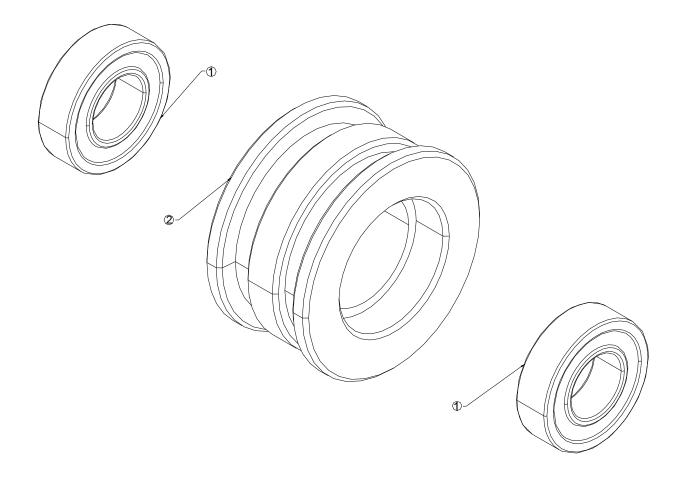
1500 Bale Carrier



| ltem | Component<br>Part # | Description                     | Qty |
|------|---------------------|---------------------------------|-----|
| 1    | C8009-00            | BALE RETAINER WELDT             | 1   |
| 2    | 84048               | WASHER 0.500 FLAT SAE BS PL     | 2   |
| 3    | 84277               | BOLT HEX 0.500 NC X 1.50 GR5 PL | 2   |
| 4    | 812364              | NUT LOCK (STEEL) 0.500 NC GRBPL | 2   |

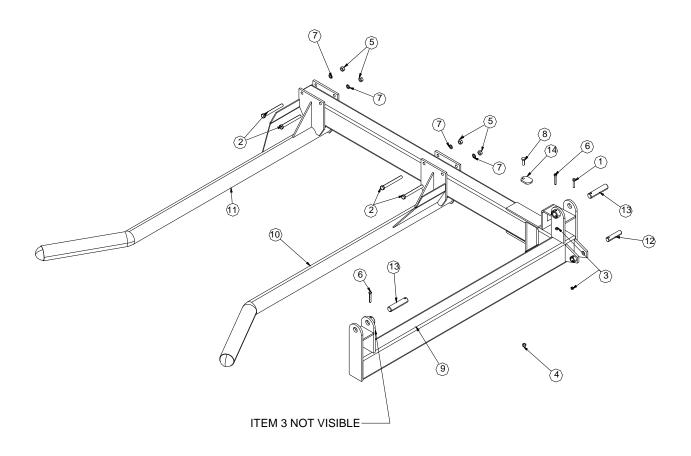
1500 Bale Carrier

## Roller / Chain Guide Assembly (Part # A7008-00)



| ltem | Component<br>Part # | Description               | Qty |
|------|---------------------|---------------------------|-----|
| 1    | 813645              | BEARING / 6205LLU/25.4/3E | 2   |
| 2    | INE7037-00          | ROLLER / CHAIN GUIDE      | 1   |

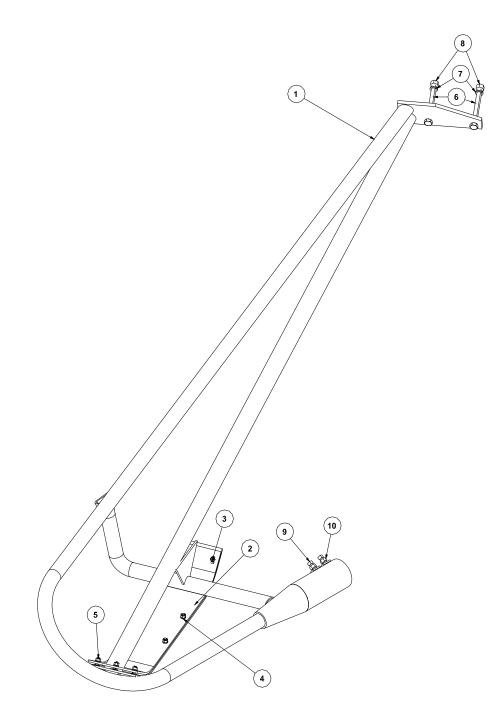
## Fixed Pick Up Arm Assembly RH Side (Part # A2300-87)



## Fixed Pick Up Arm Assembly RH Side (Part # A2300-87)

| ltem | Component<br>Part # | Description                      | Qty |
|------|---------------------|----------------------------------|-----|
| 1    | 811795              | BOLT HEX 0.375 NC X 2.00 GR5 PL  | 1   |
| 2    | 812087              | BOLT HEX 0.625 NC X 6.00 GR8 PL  | 4   |
| 3    | 812363              | NUT LOCK (STEEL) 0.375 NC GR8 PL | 3   |
| 4    | 812364              | NUT LOCK (STEEL) 0.500 NC GR5 PL | 1   |
| 5    | 813509              | NUT HEX 0.625 NC GR5 PL          | 4   |
| 6    | 81581               | BOLT HEX 0.375 NC X 2.50 GR5 PL  | 2   |
| 7    | 81677               | WASHER LOCK 0.625 PL             | 4   |
| 8    | 84277               | BOLT HEX 0.500 NC X 1.50 GR5 PL  | 1   |
| 9    | C2316-00            | LIFT ARM RIGHT BALE              | 1   |
| 10   | C2329-00            | FORK BALE LEFT ASSEMBLY          | 1   |
| 11   | C2330-00            | FORK BALE RIGHT ASSEMBLY         | 1   |
| 12   | E2345-00            | PIN CYLINDER 1.0 DIA X 4.5       | 1   |
| 13   | E2445-00            | PIN LIFT ARM 1.25 DIA C1045 CR   | 2   |
| 14   | INE2485-00          | CHAIN LATCH LIFT ARM             | 1   |

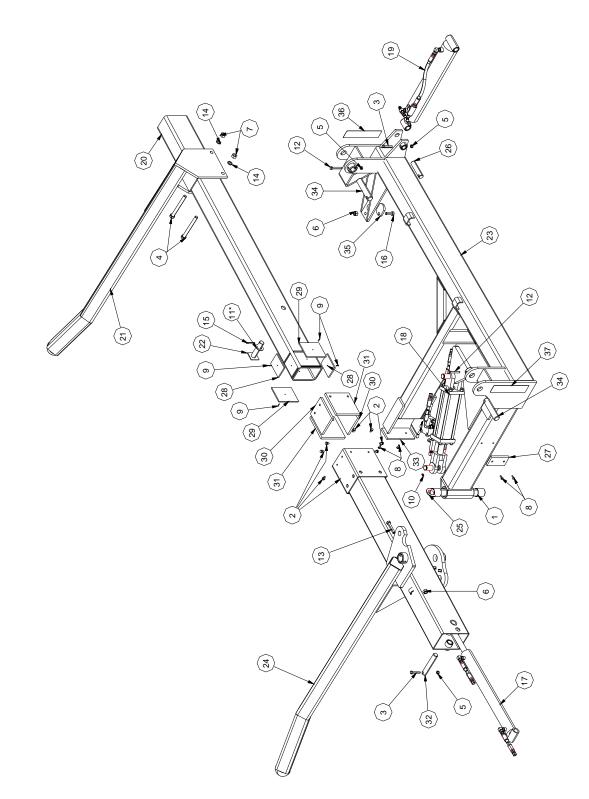
## Bale Deflector Assembly RH (Part # A2400-16) (Optional)



## Bale Deflector Assembly RH (Part # A2400-16) (Optional)

| ltem | Component<br>Part # | Description                     | Qty |
|------|---------------------|---------------------------------|-----|
| 1    | C2451-00            | BALE DEFLECTOR RH MAIN FRAME    | 1   |
| 2    | E2453-00            | SKID COVER RH UHMW POLY         | 1   |
| 3    | 81914               | BOLT CARR 0.375 NC X 1.00 GR5PL | 9   |
| 4    | 81593               | WASHER 0.375 LOCK PL            | 9   |
| 5    | 813507              | NUT HEX 0.375 NC GR5PL          | 9   |
| 6    | 812076              | BOLT HEX 0.625 NC X 6.50 GR5PL  | 2   |
| 7    | 81677               | WASHER LOCK 0.625 PL            | 2   |
| 8    | 813509              | NUT HEX 0.625 NC GR5PL          | 2   |
| 9    | 813547              | SET SCREW SQHDCUP 0.500 NC      | 2   |
| 10   | 813508              | NUT HEX 0.500 NC GR5PL          | 2   |

### RPU Assembly RH Side (Part # A2400-32) (Optional)



### RPU Assembly RH Side (Part # A2400-32) (Optional)

| ITEM | COMPONENT<br>PART # | DESCRIPTION                           | QTY |
|------|---------------------|---------------------------------------|-----|
| 1    | 20252               | BUSHING 1.75OD x 1.5ID x 1.75         | 2   |
| 2    | 810215              | SCREW SELF TAP 0.313 NC X 0.50        | 8   |
| 3    | 811795              | BOLT HEX 0.375NC X 2.00 GR5 PL        | 2   |
| 4    | 812087              | BOLT HEX 0.625NC X 6.00 GRBPL         | 2   |
| 5    | 812363              | NUT LOCK (STEEL) 0.375 GRB PL         | 4   |
| 6    | 812364              | NUT LOCK (STEEL) 0.500NC GRB PL       | 2   |
| 7    | 813509              | NUT HEX 0.625 NC GR5PL                | 2   |
| 8    | 813602              | RIVET 1/4 X 3/4 FLATHEAD              | 4   |
| 9    | 813611              | PIN SPRING 0.125 DIA X 0.625 LONG     | 4   |
| 10   | 813646              | GREASE FITTING 1/4 NF DRIVEN          | 1   |
| 11*  | 813795              | WASHER FLAT 1.031 X 1.75 X 0.031      | 1   |
| 12   | 81581               | BOLT HEX 0.375NC X 2.50 GR5PL         | 2   |
| 13   | 81626               | BOLT HEX 0.500NC X 2.75 GR5PL         | 1   |
| 14   | 81677               | WASHER LOCK 0.625 PL                  | 2   |
| 15   | 81978               | COTTER PIN 0.125 X 2.00 POL           | 1   |
| 16   | 84277               | BOLT HEX 0.500NC X 1.50 GR5PL         | 1   |
| 17   | A2400-35            | SQUEEZE CYLINDER ASSEMBLY RPU         | 1   |
| 18   | A2400-36            | ROTATE CYLINDER ASSEMBLY RPU          | 1   |
| 19   | A2400-37            | PILOT CHECK VALVE ASSY RPU            | 1   |
| 20   | C2417-00            | SLIDING ARM RPU                       | 1   |
| 21   | C2418-00            | FORK ADJUSTABLE RH RPU                | 1   |
| 22   | C2423-00            | PIN SQUEEZE CYLINDER RPU              | 1   |
| 23   | C2499-00            | LIFT ARM RIGHT                        | 1   |
| 24   | C2694-00            | RH STATIONARY ARM RPU                 | 1   |
| 25   | C2695-00            | PIN HINGE RPU                         | 1   |
| 26   | E2345-00            | PIN CYLINDER 1.0 DIA X 4.5            | 1   |
| 27   | E2413-00            | ARM CUSHION RUBBER BELTING            | 1   |
| 28   | E2419-00            | ARM SLIDING TOP AND BOTTOM PAD        | 2   |
| 29   | E2420-00            | ARM SLIDING SIDE PAD                  | 2   |
| 30   | E2421-00            | STATIONARY ARM TOP AND BOTTOM RPU PAD | 2   |
| 31   | E2422-00            | ARM STATIONARY SIDE RPU PAD           | 2   |
| 32   | E2424-00            | PIN SQUEEZE CYLINDER CLEVIS           | 1   |
| 33   | E2429-00            | ARM STATIONARY CUSHION RPU            | 1   |
| 34   | E2445-00            | PIN LIFT ARM 1.25 DIA C1045CR         | 2   |
| 35   | E2485-00            | CHAIN LATCH LIFT ARM                  | 1   |
| 36   | 967053              | DECAL REFLECTIVE 2 X 9 RED            | 1   |
| 37   | 967055              | DECAL REFLECTIVE 2 X 9 AMBER          | 1   |

Note: 1. Item #11 is used as needed.

1500 Bale Carrier

CHECKLIST

# Predelivery

- □ Verify Hardware Torque
- □ Verify Rear Wheel Bolt Torque
- Verify Tire Pressure
- □ Inspect Bearing Seals
- □ Inspect All Lubrication Points
- □ Inspect Chain Drives
- □ Inspect Hydraulic Hoses and Electrical Harnesses

Dealer Representative: \_\_\_\_\_ Date: \_\_\_\_\_

#### Customer Delivery

Review safety procedures regarding 1500 Bale Carrier operation and maintenance.

\_\_\_\_\_

- Review Operator's and Part's Manual.
- Review proper operating procedures.
- Review general adjustment and setup procedures.
- □ Review chain tensioning procedures.
- □ Review importance of regular lubrication.
- Discuss road and highway transportation requirements and regulations.
- □ Review front hitch height

Dealer Representative:\_\_\_\_\_

Date:

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