

TM

84001630, 16 Row 30



\$20.00 Net

ThurstonTM Manufacturing Company



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/BLU-JET



@BLU-JET01



/SironWorks



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GALAXY Table of Contents

16 Row 30"

Manual Number: 08000105
Rev. 11-16-16

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	Introduction
<p>►</p> <p>►</p>	<p>Welcome to Thurston Manufacturing Company. Our goal is to provide quality products and services to our customers. The company's BLU-JET products have a reputation for quality, excellence in design and proven durability. Energetic, resourceful and continuous improvement goals in Environmental, Safety, Quality, Production and Engineering keep our firm at the cutting edge of technology. We hope your BLU-JET equipment will give you years of service.</p> <p>Read this manual carefully. It will instruct you on how to operate and service your machine safely and correctly. Failure to do so could result in personal injury and/or equipment damage.</p> <p>SAFETY INFORMATION</p> <p> DANGER Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. The sign will have the color combination of <i>red</i> and <i>white</i>.</p> <p> WARNING Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The sign will have the color combination of <i>orange</i> and <i>black</i>.</p> <p> CAUTION Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. The sign will have the color combination of <i>yellow</i> and <i>black</i>.</p> <p>NOTE: <i>Indicates a special point of information.</i></p> <p><i>Carefully read and follow all safety signs. Reinstall safety signs that are damaged or missing.</i></p> <p>► Right-hand and left-hand sides of the implement are determined by facing in the direction the implement will travel when going forward.</p>

► General Information:

The BLU-JET Galaxy unit is one of the most versatile machines you can own. With the Galaxy toolbar, you can till or place fertilizer (dry, liquid, anhydrous ammonia and dual placement) in one pass or separately, depending on your requirements.

You can adjust the Galaxy's row spacings to match your requirements for fertilizer placement, and StripTill.

The Galaxy was designed to be used in combination with BLU-JET's Super 1200 Coulter, MaxPac 700 AutoReset shank mounting, residue managers, SealPro II disc sealers, and torsion arm firming baskets.

► **W**arranty is provided for customers who operate and maintain their equipment as described in this manual. Warranty registration is accomplished by the dealer completing and forwarding the **WARRANTY REGISTRATION FORM** to Thurston Manufacturing Company. It is in your best interest to ensure that this has been done.

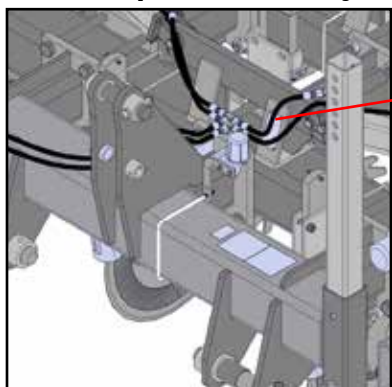
► **F**or your convenience we have four easy ways to register your warranty.

- *Call our toll free number and ask for warranty registration. 1-800-658-3127*
- *Fax completed warranty registration form. Fax: 402-385-3043*
- *Register on-line in warranty page at www.blu-jet.com*
- *Complete and return registration form.*

Thurston Manufacturing Company Warranty does not cover the following:

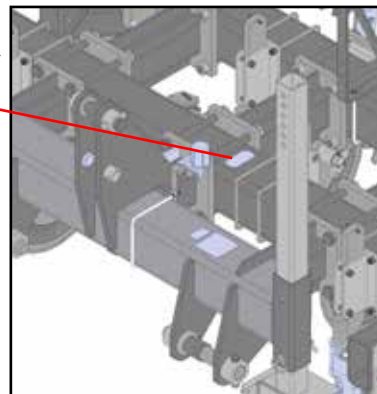
- 1) Cleaning, transporting, mailing and service call charges.
- 2) Depreciation or damage caused by normal wear, accidents, improper protection or improper use.

See complete Warranty for details.



Folding Frame

**Serial Number
location**



Rigid Frame

► Record your implement model and serial number in the space provided below. Your dealer needs this information to give you prompt, efficient service when you order parts.

MODEL NO. _____
SERIAL NO. _____
DATE PURCHASED _____

- **To The Dealer:**
Inspect the implement thoroughly after assembly to be certain it is functioning properly before delivering it to the customer. The following checklist is a reminder of points to cover. Check off each item as it is found satisfactory or after proper adjustment is made.

► **PRE-DELIVERY CHECKLIST**

- ☐ 1. All hardware properly tightened
- ☐ 2. Lubrication of grease fittings
- ☐ 3. All decals properly located and readable
- ☐ 4. Other adjustments for machine level height, etc.
- ☐ 5. Overall condition (touch up any scratches, clean and polish)
- ☐ 6. Operator's manual

DATE SET UP _____

SIGNATURE _____

► **DELIVERY**

Review the operator's manual with the customer. Explain the following:

- ☐ 1. Safe operation and service
- ☐ 2. Correct machine installation and operation
- ☐ 3. Daily and periodic lubrication and maintenance
- ☐ 4. Daily and periodic inspections
- ☐ 5. Troubleshooting
- ☐ 6. Storing machine
- ☐ 7. Thurston Manufacturing Company parts and service
- ☐ 8. Have the customer write the machine model and serial number in space provided in manual introduction.
- ☐ 9. Give customer the operator's manual and encourage the customer to read the manual carefully.
- ☐ 10. Completion and mailing of warranty registration form.

DATE DELIVERED _____

SIGNATURE _____

MODEL NO. _____

SERIAL NO. _____

- **Thank you for your recent purchase of a new BLU-JET implement. The primary objective of Thurston Manufacturing Company is to build and provide you with a quality product. However, in the event that a problem does occur, it is imperative that your warranty registration is on file in order to accurately respond to your specific service circumstances. For your convenience we have four easy ways to register your warranty:**

**Register
Warranty
One of
Four Ways**

- **Call our toll free number and ask for warranty registration.
1-800-658-3127**
- **Fax your completed warranty registration form.
1-402-385-3043**
- **Register on-line at:
www.blu-jet.com**
- **Complete and mail the warranty registration form.**

This manual has been prepared to assist you in the assembly of your new machine and contains information pertaining to safety, operation and all of its parts. Our personnel in sales and service are always available to assist you when questions arise concerning the assembly or operation of your tool bar.

When ordering parts, please refer to part numbers and descriptions as listed throughout this book. All parts and whole goods will be shipped FOB Thurston, Nebraska, or FOB your regional distributor. Always check merchandise immediately upon receipt for damage or shortage. Note any discrepancy on carrier's bill of lading and notify Sender within 10 days. Returned goods will be subject to a 15% restocking charge. Thurston Manufacturing Company reserves the right to make improvements and modifications on equipment without obligation to change previously built equipment. All prices are subject to change without notice.

Limited Warranty

Thurston Manufacturing Company warrants each new BLU-JET machine primary framework to be free from defects in material and workmanship for a period of five (5) years, normal wear of wearing parts excepted. Thurston Manufacturing Company further warrants each new BLU-JET product to be free from defects in material and workmanship, normal wear of wearing parts excepted, for a period of one (1) year. All accessories purchased and resold by Thurston Manufacturing Company will be warranted according to their respective manufacturer. Tires on BLU-JET equipment are warranted through their respective tire manufacturers and their network of dealers in your local area.

Warranty begins from date of delivery to the original purchaser and applies to all new BLU-JET products that have not been altered and are being used for the intended purpose. Negligence, abuse or modification of equipment manufactured by or purchased and resold by Thurston Manufacturing Company will void this warranty.

The obligation of Thurston Manufacturing Company to honor this warranty is limited to the repair or replacement of defective merchandise, to the original purchaser, subject to inspection of equipment in question by an authorized Thurston Manufacturing Company sales or service technician. In the USA, freight of warranty replacement parts including main frame centers and wings will be prepaid for a period of one (1) Year by Thurston Manufacturing Company. Shipments of repaired or replaced parts including main frame centers and wings after one year will be paid by the customer.

Return of defective goods must be made within thirty (30) days of failure to Thurston Manufacturing Company, Thurston, Nebraska USA or to the nearest authorized BLU-JET Distributor or Rep Sales and service outlet.

Thurston Manufacturing Company will not be held responsible for any repair charges made by customers without prior written consent and prior equipment inspection by an authorized Thurston Manufacturing Company sales or service technician.

This warranty shall not be interpreted to render liability for injury or damages of any kind, direct, consequential or contingent to person or property. This warranty does not extend to loss of crops, economic and/or commercial loss, loss because of delay in crop production or any expense incurred for labor, supplies, substitute machinery, rental or for any other reason. This warranty is subject to any existing condition of supply, which may directly affect Thurston Manufacturing Company's ability to obtain materials of manufacture and delivery of replacement parts.

Thurston Manufacturing Company reserves the right to make improvements in design and changes in specifications at any time without incurring any obligation to owners of units previously sold.

No one is authorized to alter, modify or enlarge this warranty nor its exclusions, limitations and reservations. Thurston Manufacturing Company makes no representations or warranties, expressed or implied (including implied warranties of merchantability and fitness), except for those set forth in Thurston Manufacturing Company's current applicable published warranty policies and procedures.

Layton W. Jensen, President

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RECOGNIZE SAFETY INFORMATION



- This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury. Follow recommended precautions and safe operating practices.



FOLLOW SAFETY INSTRUCTIONS

- Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs.
- Learn how to operate the machine and how to use controls properly.
- Do not let anyone operate without instruction.
- Keep your machine in proper working condition.
- Unauthorized modification to the machine may impair the function and/or safety and affect machine life.



PROTECT CHILDREN AND BYSTANDERS

- Before you back, LOOK CAREFULLY behind for children.
- Clear area of children, pets and bystanders.



HIGHWAY AND TRANSPORT OPERATIONS

Adopt safe driving practices:

- Keep the brake pedals latched together at all times. NEVER USE INDEPENDENT BRAKING WITH MACHINE IN TOW AS LOSS OF CONTROL AND/OR UPSET OF UNIT CAN RESULT.
- Always drive at a safe speed relative to local conditions and ensure that your speed is low enough for an emergency stop to be safe and secure. Keep speed to a minimum.
- Reduce speed prior to turns to avoid the risk of overturning.
- Avoid sudden uphill turns on steep slopes.
- Always keep the tractor or towing vehicle in gear to provide engine braking when going downhill. Do not coast.
- Do not drink and drive.
- Comply with state and local laws governing highway safety and movement of farm machinery on public roads.
- Use approved accessory lighting and necessary warning devices to protect operators of other vehicles on the highway during daylight and nighttime transport.
- The use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use. Local laws should be checked for all highway lighting and marking requirements.
- When driving the tractor and equipment on the road or highway under (20 mph max.) (32 kmph max.) at night or during the day, use flashing amber warning lights and a slow moving vehicle (SMV) identification emblem.





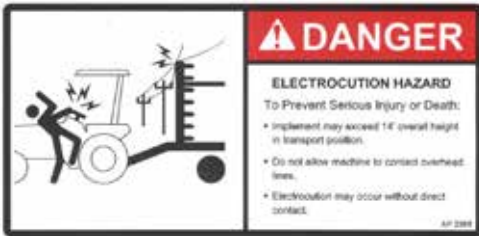
Observe Safety Signs



AP 2483-8-98



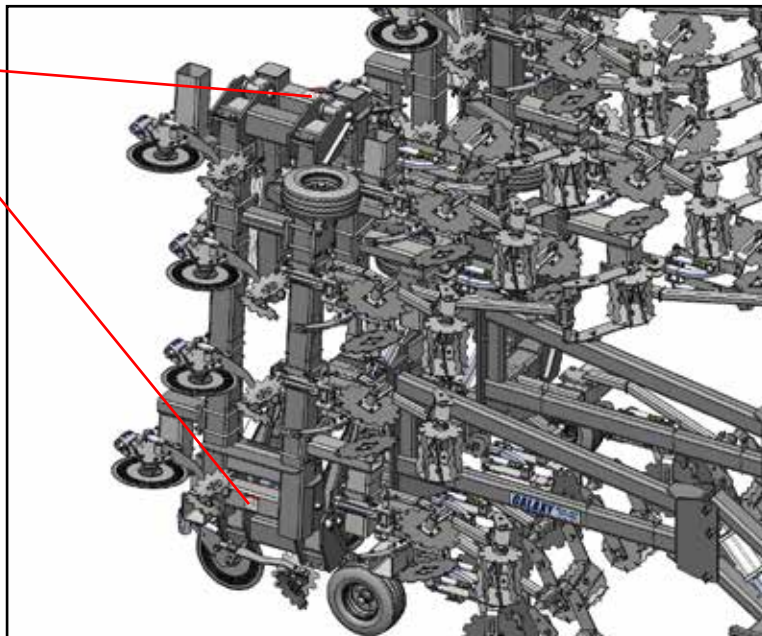
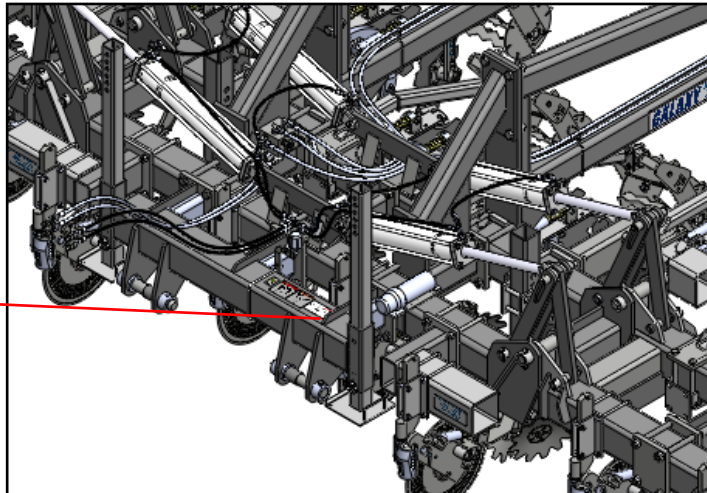
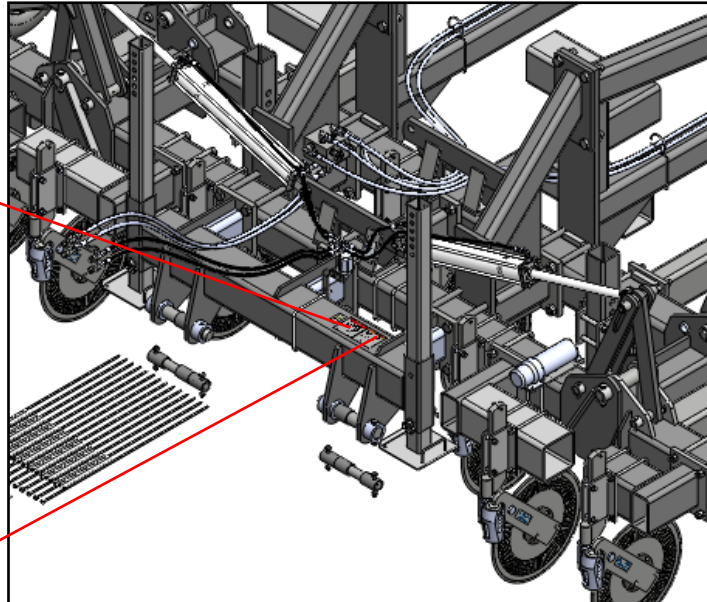
AP 2914



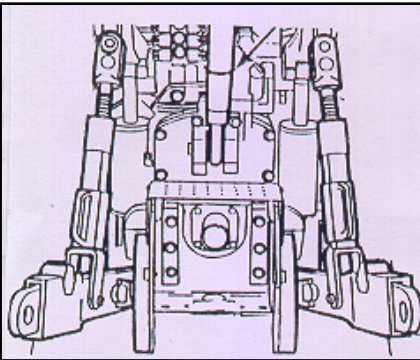
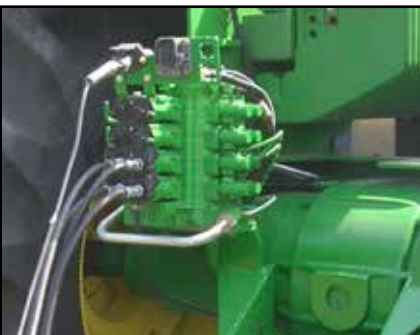
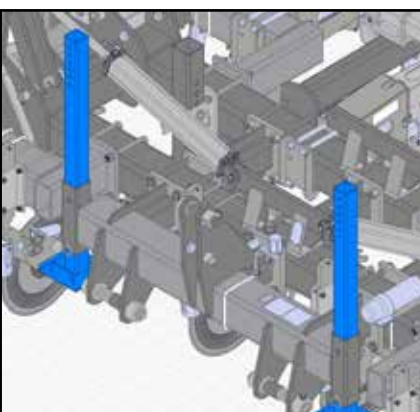
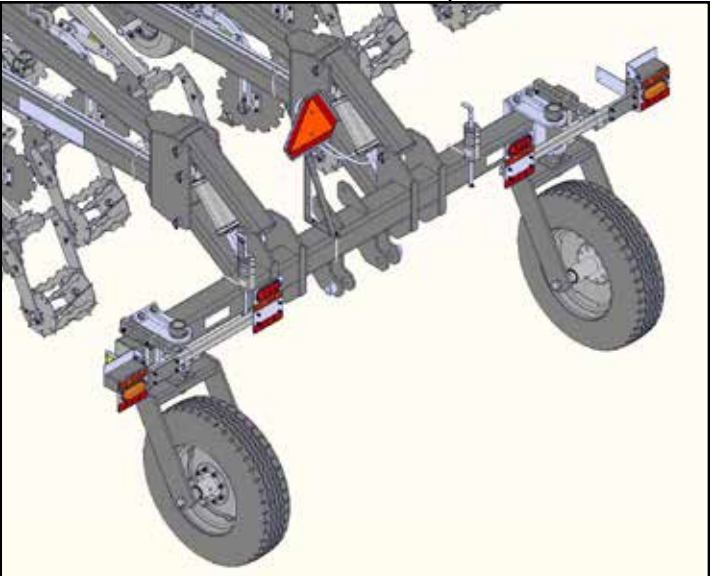
AP 2988



AP 2234-7-98

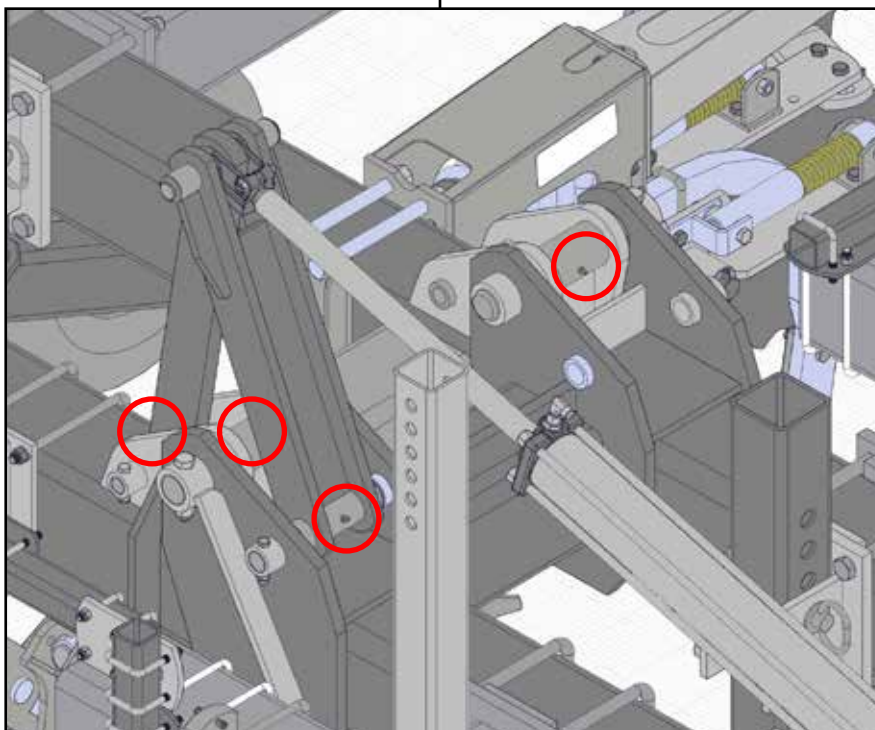


Operating Instructions

Task	Procedures	Illustrations
<p>► 3-Point adjustments</p>	<p>1. Measure tractor linkages on pullarms to insure equal length for level operation as viewed across the rear of the tractor. Check tractor tire pressure for equal inflation. Be certain that the proper pins are used in either CAT. III or CAT. IV hookup.</p>	
<p>► Mounting implement</p>	<p>2. Mount implement with pull pin kit. Connect hydraulic hoses.</p> <p>3. Attach 7 pin electrical harness.</p> <p>4. Raise park stands.</p>	 
<p>► Checking lights</p>	<p>5. Check lights for proper operation.</p>	

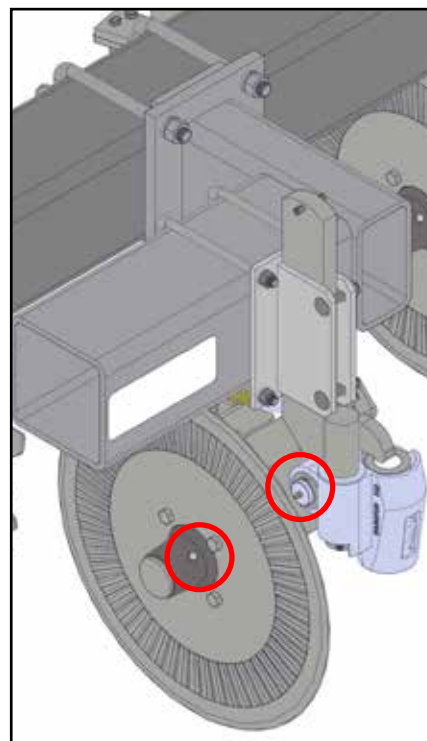
Operating Instructions

► Lubrication wing hinges and wing linkages

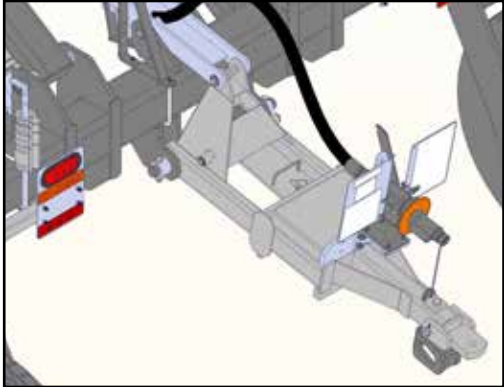
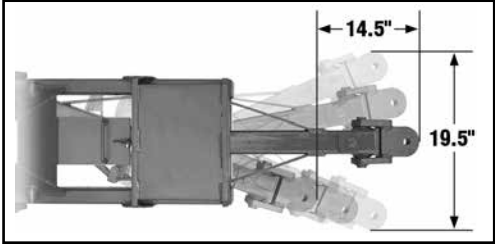
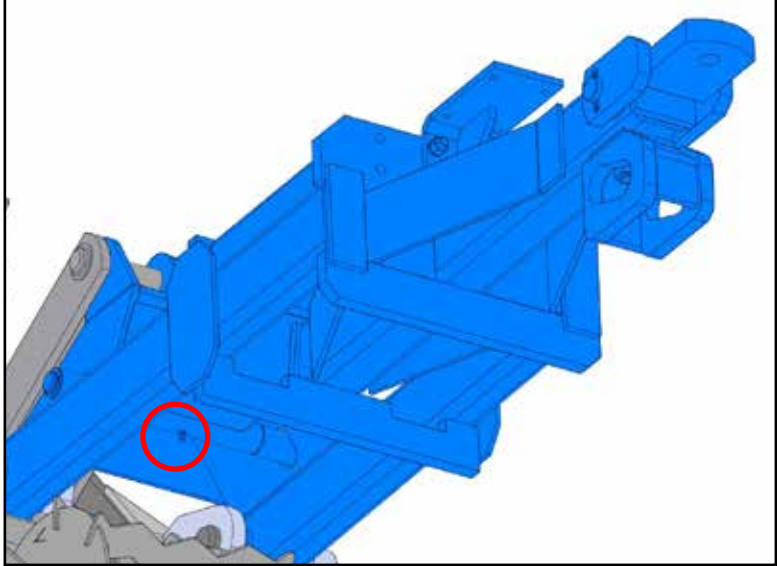


► Coulter lubrication

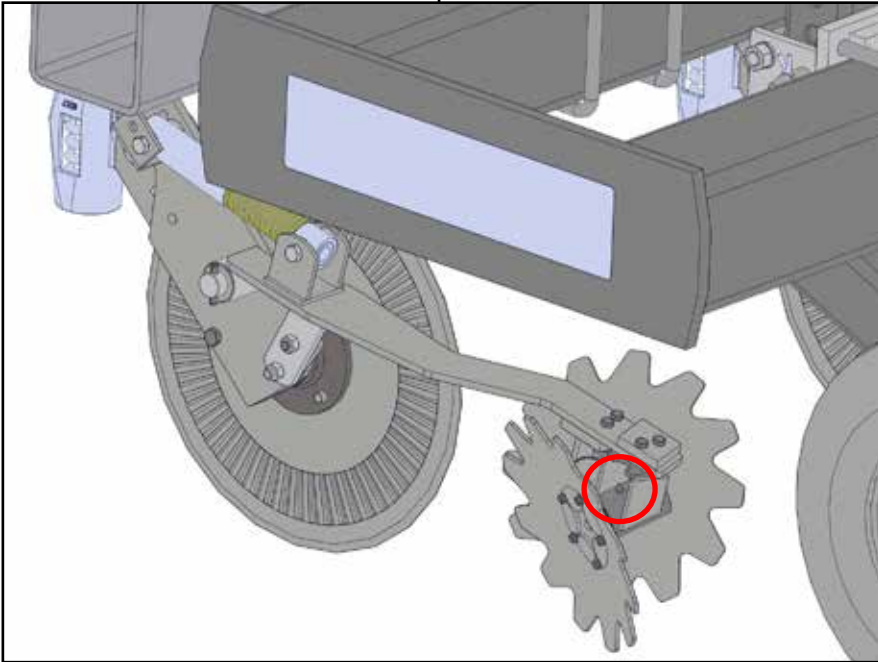
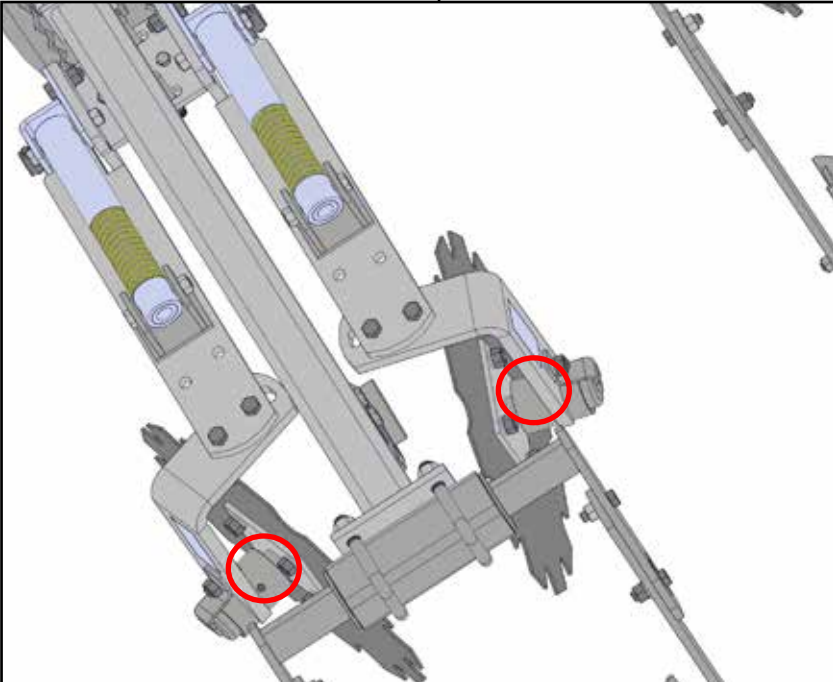
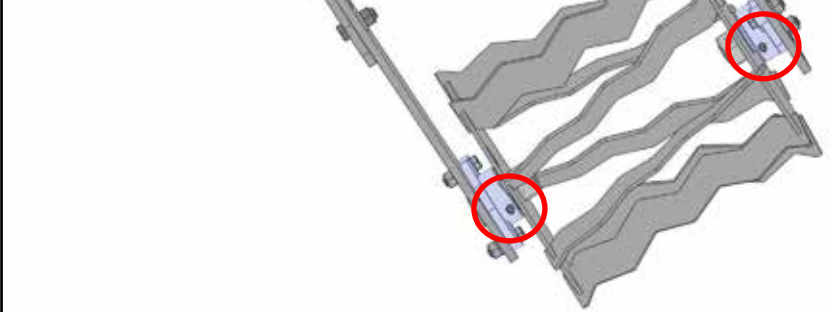
6. Grease all zerks daily.
7. Grease coulters arm pivots daily.
8. Grease all coulters arm pivots
The plug on the coulters hub can be removed. A zerk can be installed. Hub and spindle assembly should be greased twice seasonally.



Operating Instructions

	Task	Procedures	Illustrations
<ul style="list-style-type: none"> ▶ Nurse tank hitch ▶ NOTE: Periodically check Latch mechanism to ensure proper latching in the extended position. 		<p>9. Nurse tank hitch can be retracted and moved from side to side for easy hookup. Hitch will automatically lock in the extended position.</p> <div data-bbox="695 451 911 653"> <p>⚠ WARNING Pinch point To prevent Injury Keep hands clear when extending or retracting the swing slide insert</p> </div>	 
<ul style="list-style-type: none"> ▶ Lubricate nurse tank hitch latch daily 			

Operating Instructions

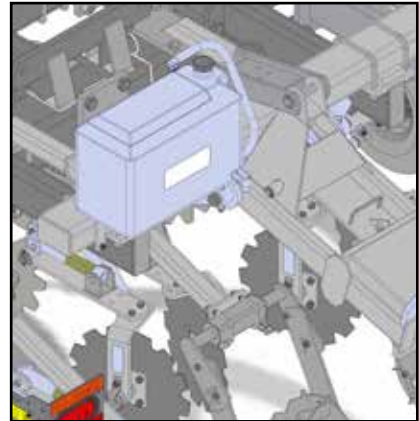
Task	Procedures	Illustrations
<p>▶ Lubricate Residue Managers daily</p>		
<p>▶ Lubricate SealPro hubs daily</p>		
<p>▶ Lubricate basket bearings daily</p>		



Operating Instructions

► **Emergency water tank operation and maintenance**

10. Locate nine-gallon emergency water tank/toolbox. Change water daily to provide fresh clean water to flush exposed skin or eyes. Drain water daily in cold temperatures to prevent freezing and bursting tank.
11. In case of exposure to fertilizer, open faucet or pull top end of hose loose to flush exposed part of body. Remove contaminated clothes as soon as possible.



Operational Guide For Various Residue Situations

BLU-JET StripTill Implement



Beans (Soy or Pinto)

Coulter Blades

- 3"-4" Deep (make sure hub is not running in the ground).
- If blades are new or being used for the first time in a season, or if residue is hair pinning, sharpening each blade will assist in cutting during the first few acres of operation. After the first few acres, blades will self-sharpen.

Residue Managers – Light pressure setting (particularly in light soils).

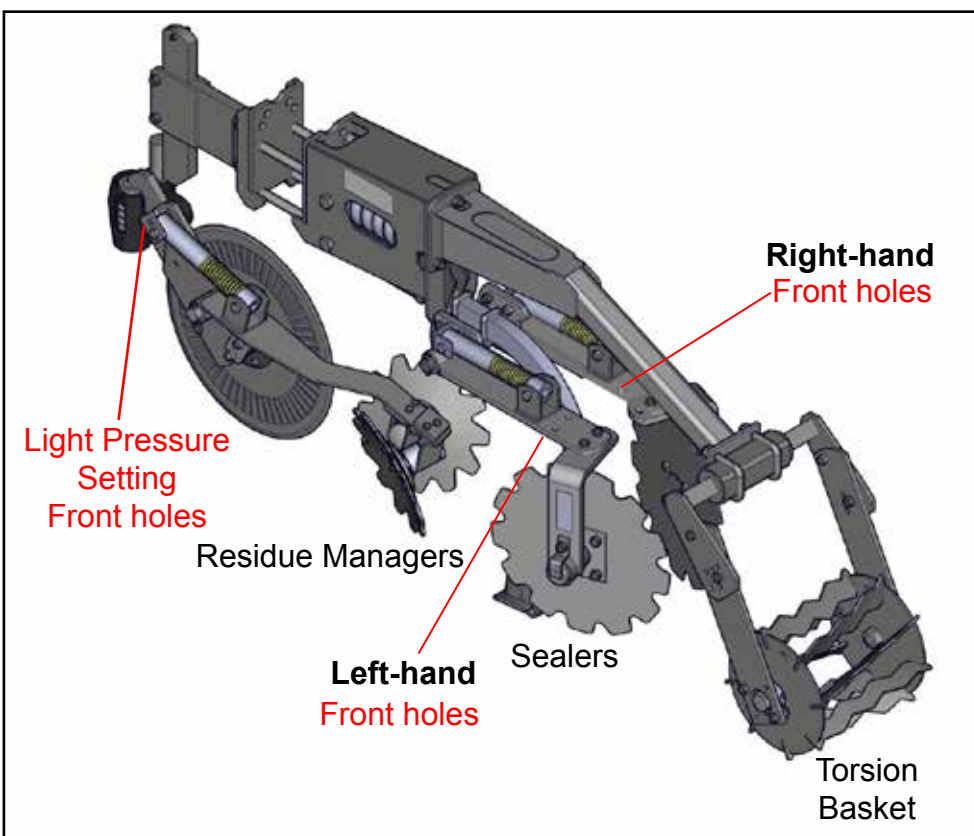
Shank depth – Minimum 4" deep from ground level (optimum depth for fertilizer placement is 6"-8").

Sealer Blade Position – Front holes on the sealer arm.

Sealer Blade Pitch – Determined by soil type and season in soybean residue.

Sealer Blade Down Pressure – Determined by soil type and season in this residue.

Basket Pressure – Determined by soil type and season in this residue.



Operational Guide For Various Residue Situations BLU-JET StripTill Implement

► **Corn**
Grain under
250 bushel
(in one year
corn/bean
rotation or
corn/corn/
bean rotation
if not Strip-
Tilling beans)

For best results follow these operating recommendations:

- Leaving standing stalks in the field when harvesting (about knee high) is preferable to shredding the residue.
- Row units on the machine should be operated between last year's corn rows (split last year's rows).

Coulter Blades

- 3"-4" Deep (make sure hub is not running in the ground).
- If blades are new or being used for the first time in a season, or if residue is hair pinning, sharpening each blade will assist in cutting during the first few acres of operation. After the first few acres, blades will self-sharpen.

Residue Managers – Heavy pressure setting.

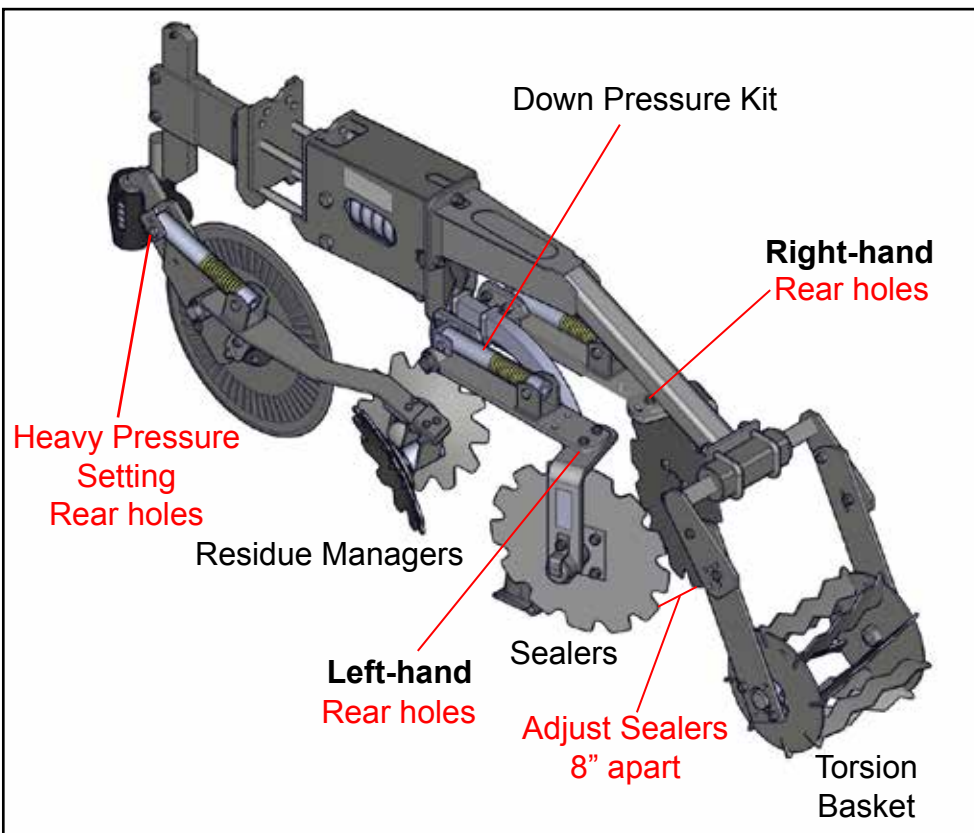
Shank depth – Minimum 4" deep from ground level (optimum depth for fertilizer placement is 6"-8").

Sealer Blade Position – Rear holes on the sealer arm.

Sealer Blade Pitch – Blades should be even in pitch and backs of the blades should be at least 8" apart.

Sealer Blade Down Pressure – Determined by soil type and season in this residue.

Basket Pressure – Determined by soil type and season in this residue.



Operational Guide For Various Residue Situations BLU-JET StripTill Implement

► **Corn**
Grain over
250 bushel
(in one year
corn/bean
rotation)

► **NOTE:**
**Left-hand
and
right-hand
as viewed
from the
rear**

For best results follow these operating recommendations:

- Leave standing stalks do not shred the residue in the field when harvesting (about knee high).
- Row units on the machine should be operated between last year's corn rows (split last year's rows).

Coulter Blades

- 3"-4" Deep (make sure hub is not running in the ground).
- If blades are new or being used for the first time in a season, or if residue is hair pinning, sharpening each blade will assist in cutting during the first few acres of operation. After the first few acres, blades will self-sharpen.

Residue Managers – Heavy pressure setting.

Shank depth – Minimum 4" deep from ground level (optimum depth for fertilizer placement is 6"-8").

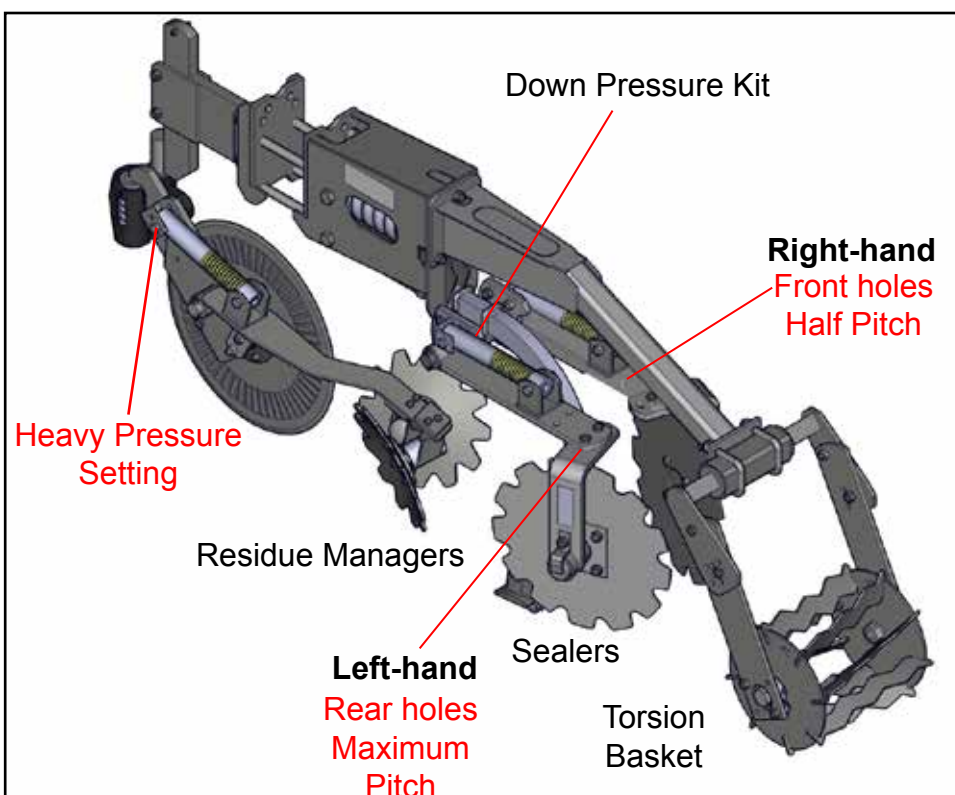
Sealer Blade Position – Offset (left blade in rear holes and right blade in front holes).

Sealer Blade Pitch –

- Left blade should be set at nearly maximum pitch.
- Right blade should be set at about half pitch when compared to the left blade.

Sealer Blade Down Pressure – Down Pressure Kits are recommended for this residue situation.

Basket Pressure – Running a basket is recommended for this residue situation.



Operational Guide For Various Residue Situations BLU-JET StripTill Implement



Corn

Grain under
250 bushel
(in 2+ years
corn rotation)

For best results follow these operating recommendations:

- Leave standing stalks do not shred the residue in the field when harvesting (about knee high).
- Row units on the machine should be operated 7.5" to one side of last year's corn row (RTK guidance recommended).

Coulter Blades

- 3"-4" Deep (make sure hub is not running in the ground).
- If blades are new or being used for the first time in a season, or if residue is hair pinning, sharpening each blade will assist in cutting during the first few acres of operation. After the first few acres, blades will self-sharpen.

Residue Managers – Heavy pressure setting.

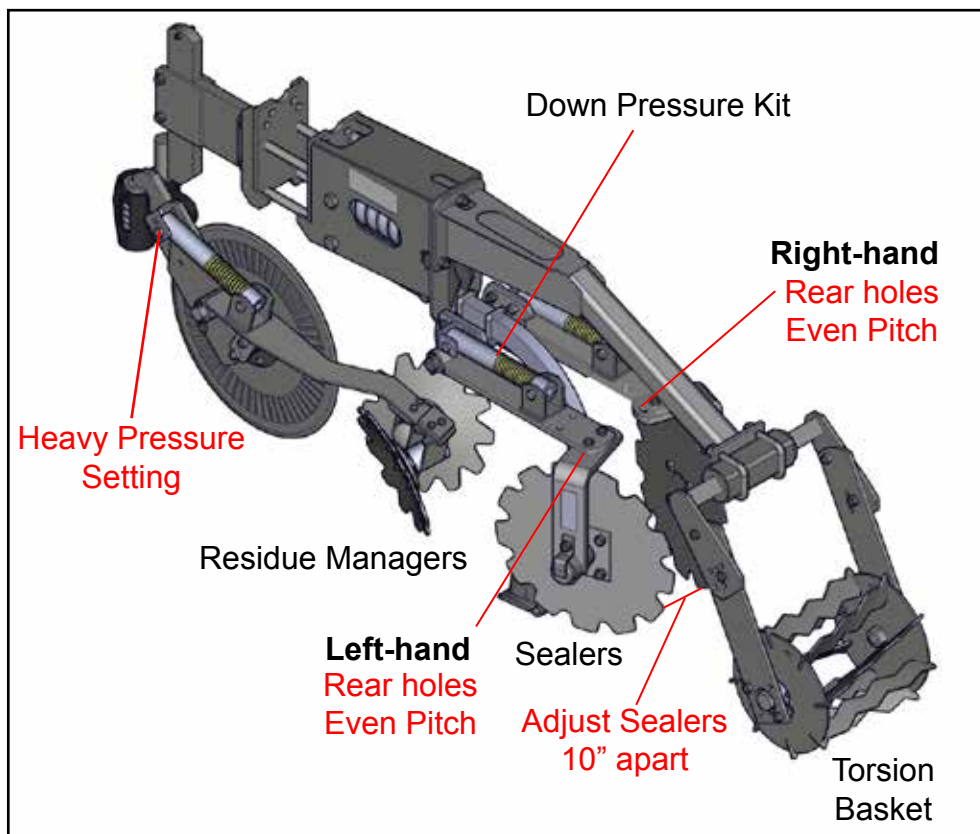
Shank depth – Minimum 4" deep from ground level (optimum depth for fertilizer placement is 6"-8").

Sealer Blade Position – Rear holes on the sealer arm.

Sealer Blade Pitch – Blades should be even in pitch and backs of the blades should be at least 10" apart.

Sealer Blade Down Pressure – Down Pressure Kits are recommended for this residue situation.

Basket Pressure – Determined by soil type and season in this residue.



Operational Guide For Various Residue Situations BLU-JET StripTill Implement

- **Corn**
Grain over
250 bushel
(in 2+ years
corn rotation)

► **NOTE:**
Left-hand
and
right-hand
as viewed
from the
rear

For best results follow these operating recommendations:

- Leave standing stalks do not shred the residue in the field when harvesting (about knee high).
- Row units on the machine should be operated 7.5" to one side of last year's corn row (RTK guidance recommended).

Coulter Blades

- 3"-4" Deep (make sure hub is not running in the ground).
- If blades are new or being used for the first time in a season, or if residue is hair pinning, sharpening each blade will assist in cutting during the first few acres of operation. After the first few acres, blades will self-sharpen.

Residue Managers – Heavy pressure setting.

Shank depth – Minimum 4" deep from ground level (optimum depth for fertilizer placement is 6"-8").

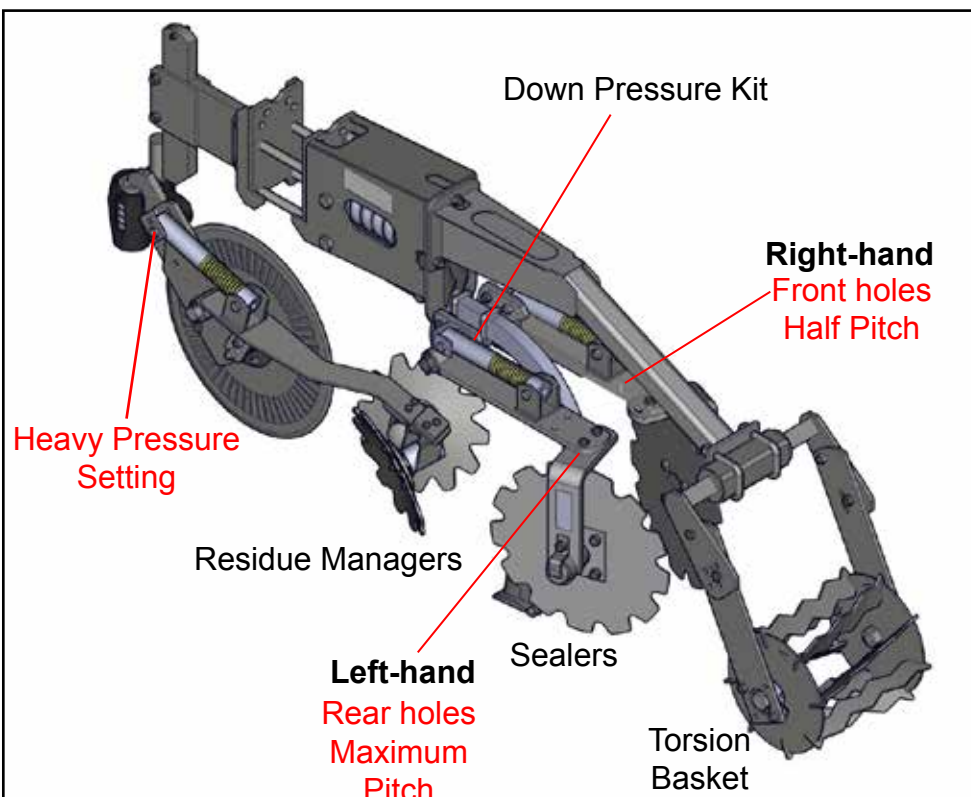
Sealer Blade Position – Offset (left blade in rear holes and right blade in front holes).

Sealer Blade Pitch –

- Left blade should be set at nearly maximum pitch.
- Right blade should be set at about half pitch when compared to the left blade.

Sealer Blade Down Pressure – Down Pressure Kits are recommended for this residue situation.:

Basket Pressure – Running a basket is recommended for this residue situation. Consult: ***Setting the Implement for field operation: pages***



Operational Guide For Various Residue Situations BLU-JET StripTill Implement



Corn Silage

For best results follow these operating recommendations:

- Row units on the machine should be operated at least 7.5" off of any corn row where root ball masses remain mostly intact.

Coulter Blades

- 3"-4" Deep (make sure hub is not running in the ground).
- If blades are new or being used for the first time in a season, or if residue is hair pinning, sharpening each blade will assist in cutting during the first few acres of operation. After the first few acres, blades will self-sharpen.

Residue Managers – Light pressure setting (particularly in light soils)

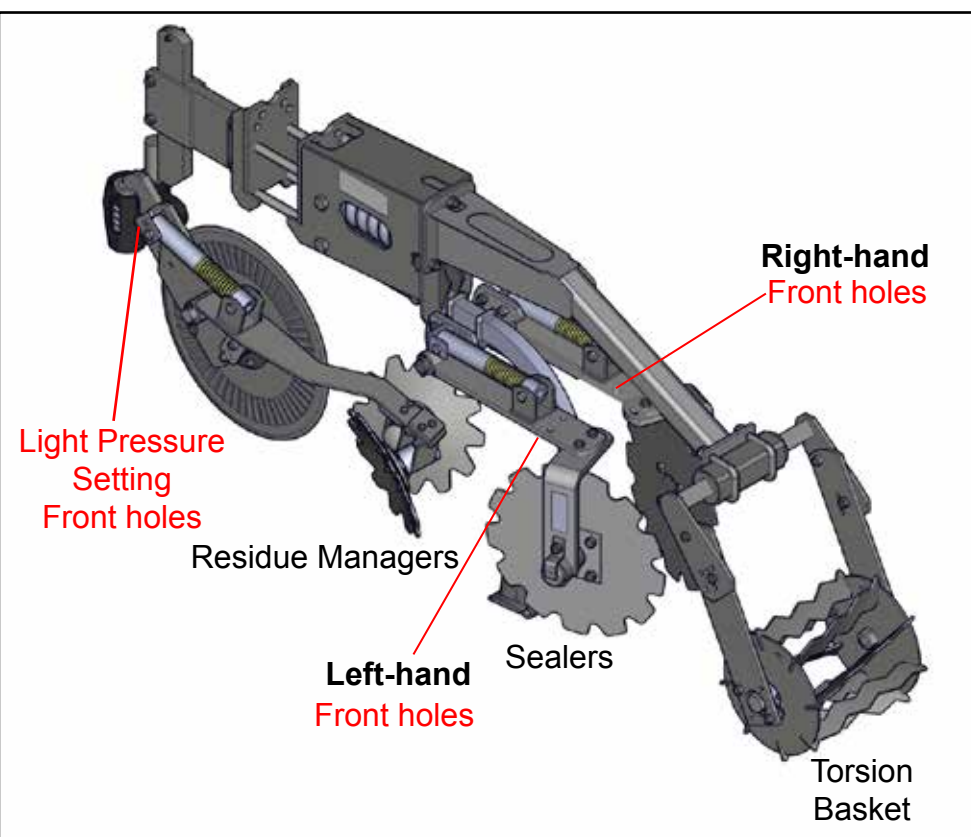
Shank depth – Minimum 4" deep from ground level (optimum depth for fertilizer placement is 6"-8").

Sealer Blade Position – Front holes on the sealer arm.

Sealer Blade Pitch – Determined by soil type and season in this residue

Sealer Blade Down Pressure – Determined by soil type and season in this residue.

Basket Pressure – Determined by soil type and season in this residue.



Operational Guide For Various Residue Situations BLU-JET StripTill Implement

► **Cover
Crop**
Live or
Residue

Coulter Blades

- 3"-4" Deep (make sure hub is not running in the ground).
- If blades are new or being used for the first time in a season, or if residue is hair pinning, sharpening each blade will assist in cutting during the first few acres of operation. After the first few acres, blades will self-sharpen.

Residue Managers – Heavy pressure setting.

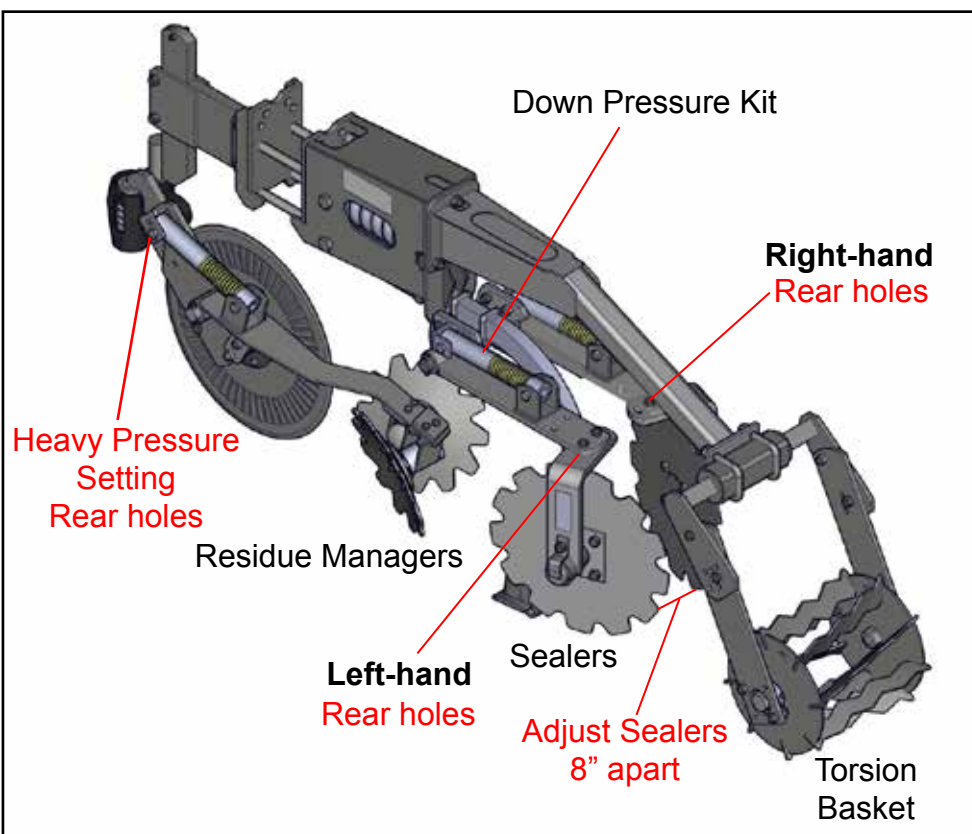
Shank depth – Minimum 4" deep from ground level (optimum depth for fertilizer placement is 6"-8").

Sealer Blade Position – Rear holes on the sealer arm.

Sealer Blade Pitch – Blades should be even in pitch and backs of the blades should be at least 8" apart.

Sealer Blade Down Pressure – Down Pressure Kit recommended in this residue situation.

Basket Pressure – Determined by soil type and season in this residue.



Operational Guide For Various Residue Situations BLU-JET StripTill Implement

► Sugar Beets

Coulter Blades

- 3"-4" Deep (make sure hub is not running in the ground).
- If blades are new or being used for the first time in a season, or if residue is hair pinning, sharpening each blade will assist in cutting during the first few acres of operation. After the first few acres, blades will self-sharpen.

Residue Managers – Light pressure setting (particularly in light soils).

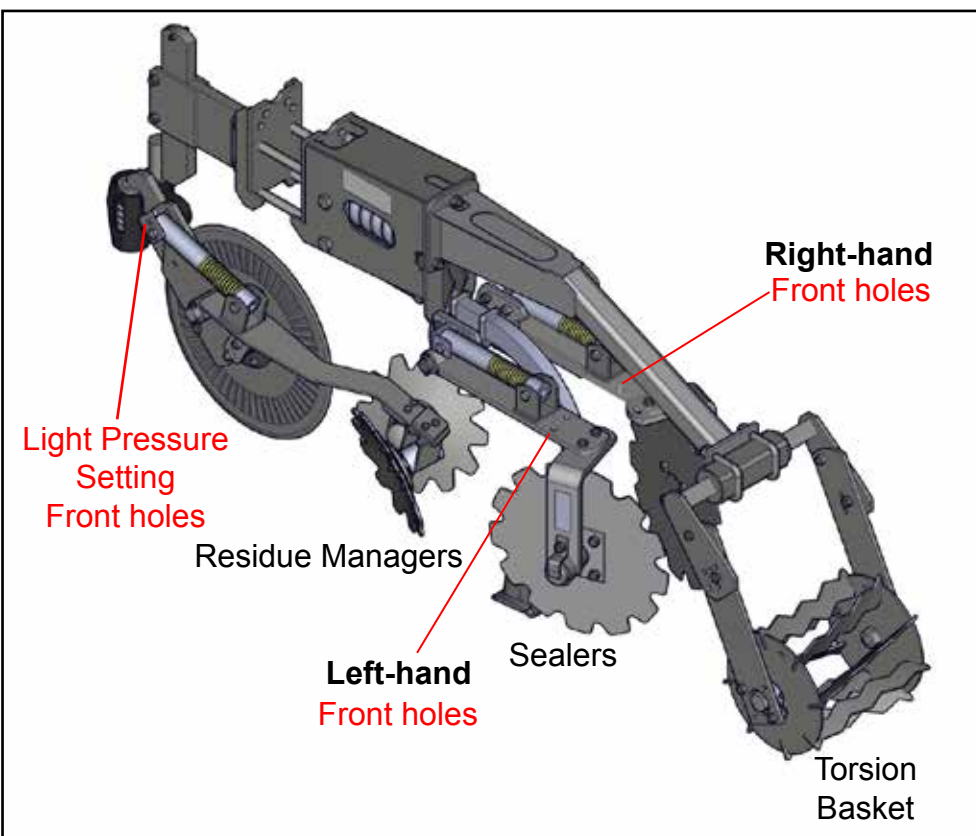
Shank depth – Minimum 4" deep from ground level (optimum depth for fertilizer placement is 6"-8").

Sealer Blade Position – Front holes on the sealer arm.

Sealer Blade Pitch – Determined by soil type and season in this residue.

Sealer Blade Down Pressure – Determined by soil type and season in this residue.

Basket Pressure – Determined by soil type and season in this residue.



Operational Guide For Various Residue Situations BLU-JET StripTill Implement

► **Wheat &
Other
Small
Grain**

Coulter Blades

- 3"-4" Deep (make sure hub is not running in the ground).
- If blades are new or being used for the first time in a season, or if residue is hair pinning, sharpening each blade will assist in cutting during the first few acres of operation. After the first few acres, blades will self-sharpen.

Residue Managers – Heavy pressure setting.

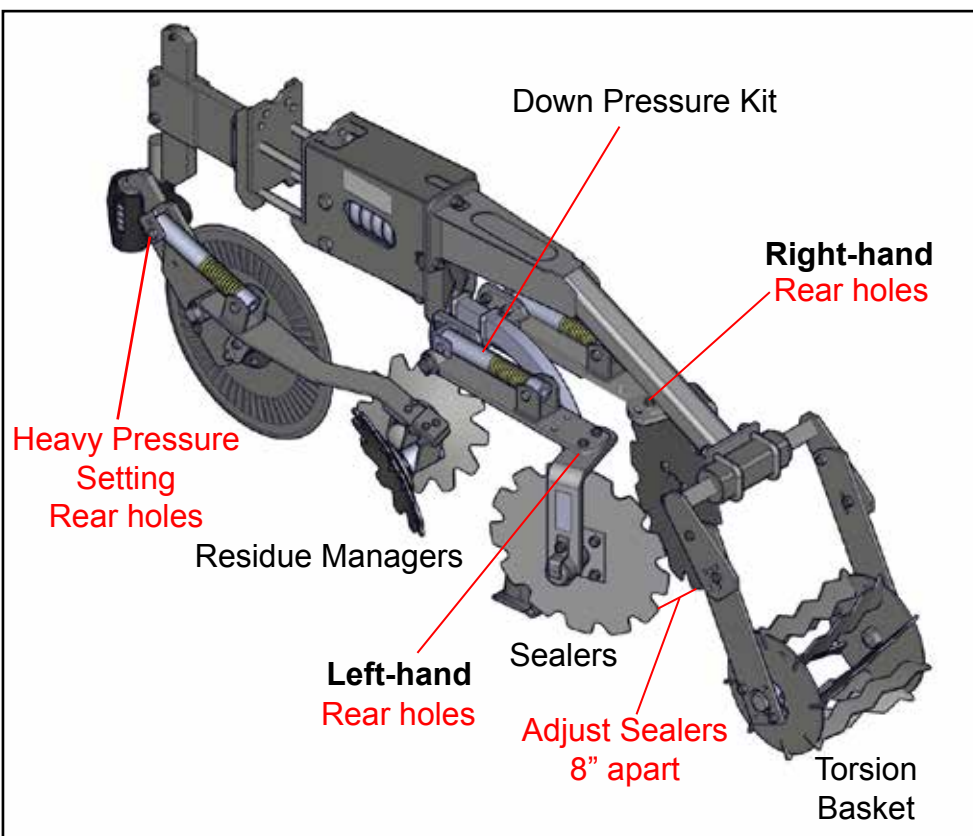
Shank depth – Minimum 4" deep from ground level (optimum depth for fertilizer placement is 6"-8").

Sealer Blade Position – Rear holes on the sealer arm.

Sealer Blade Pitch – Blades should be even in pitch and backs of the blades should be at least 8" apart.

Sealer Blade Down Pressure – Down Pressure Kit recommended in this residue situation.

Basket Pressure – Determined by soil type and season in this residue.





Setting the Implement for field operation: BLU-JET StripTill Implement

1. Run the implement in the field for approximately 100 feet (making sure the tractor reaches the speed at which you wish to operate the machine). Stop while leaving the shanks in the ground.
2. Check for your desired shank depth on a middle row and on each wing. Shank depth should be at least 4" from ground level (6"-8" is optimum fertilizer placement depth for corn in most areas). Adjust the mainframe and wing wheels accordingly and repeat steps 1&2 until desired depth across the machine is achieved.
3. Ensure the frame is level from front to back when the shanks are in the ground at the depth you have chosen.
4. Walk to the back of the machine.

Below: are Items to look for.

- a. Check for uniformity on the strips from row to row.

- i. **Fall Operation (In areas with a good freeze-thaw over the winter):**

1. Top of the berm should be at a minimum height of 4" from ground level (expect it to mellow 2"-3" over the winter).
2. Berm should be 8"-10" wide.
3. There should be little to no residue within the strip (if using Residue Managers).
4. The top of the berm should be slightly flattened and most dirt clods should be no larger than your fist (if using baskets on a light setting).

- ii. **Fall Operation (In areas with little to no freeze-thaw over the winter):**

1. Top of the berm should be at a height of 2"-3" from ground level (expect it to mellow 1"-2" with winter moisture).
2. Berm should be 8"-10" wide.
3. There should be little to no residue within the strip (if using Residue Managers).
4. The top of the berm should be moderately flat and most dirt clods should be no larger than a golf ball (if using baskets on a medium setting).

- iii. **Spring Operation (all areas)**

1. Top of the berm should be at a height of 1"-2" from ground level.
2. The berm should be 8"-10" wide.
3. There should be little to no residue within the strip (if using Residue Managers).
4. The top of the berm should be flat and soil should have a finished look, ready for planting.

- b. If you see uniformity in the strips across each row, and they are as described above. based on the season and climate in which you are running, you are ready to proceed with normal operation.

5. If you do not see uniformity in the strips from row to row, pick one of the strips that looks like the description above and use it as an example row. Set the components on the other rows similar to your example row. Below are some of the component settings to check.

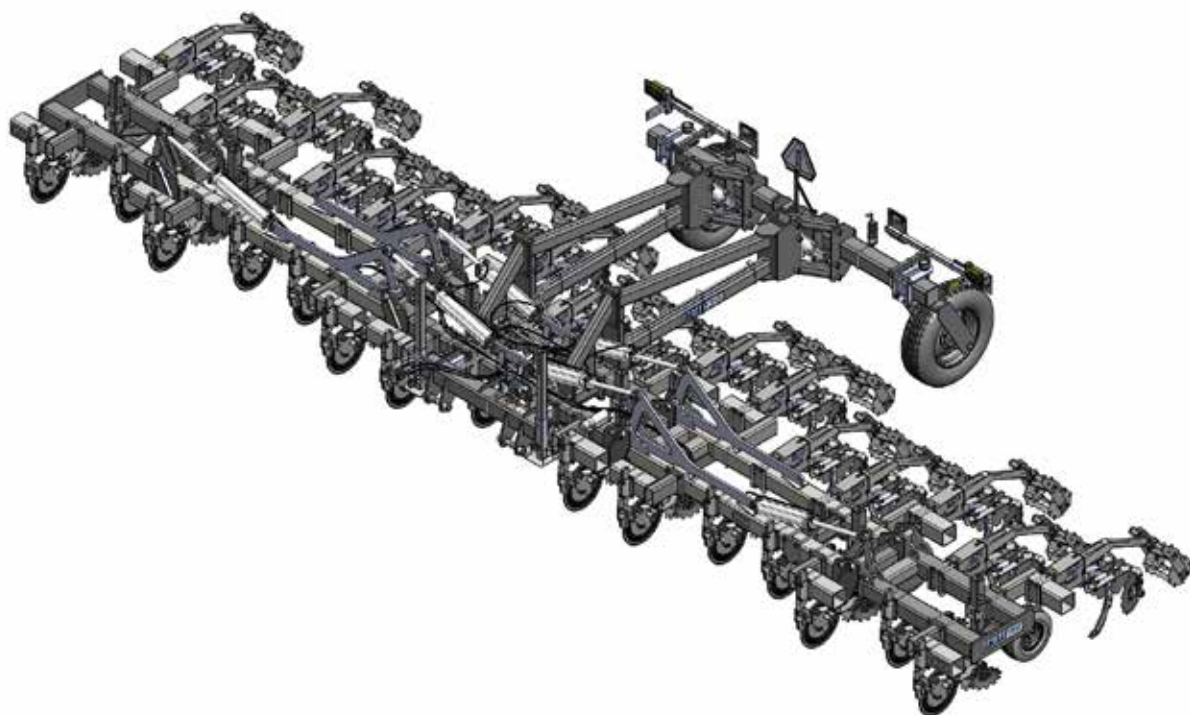
- a. **Coulters**

- i. Look across the tops of the coultter shanks to see if they are set at equal depth.
 1. Blades should be running 3"-4" in the ground.
 2. Be sure the coultter is not set so deep that the hub is running in the ground.
- ii. If the implement has been used before, check the coultter blades to make sure they have similar wear.



Setting the Implement for field operation: BLU-JET StripTill Implement

- b. **Residue Managers**
 - i. There is a heavy and light spring pressure setting. Be sure that all Residue Managers are set on the same pressure setting.
 - ii. Lift up on the Residue Managers to gauge pressure if settings are the same, but you suspect the spring pressure is different.
 - iii. See recommended setting for your residue type and climate above.
 - c. **Sealer Blade Hanger Position**
 - i. Check to make sure all sealer blade hanger brackets are mounted on the sealer arms in the same positions (all front, all back, or all offset).
 - ii. Check to make sure all sealer blade hanger brackets are mounted on the same width position (either all narrow or all wide).
 - iii. See recommended setting for your residue type and climate above.
 - d. **Sealer Blade Angle**
 - i. Check to see that the blades on each row are set at a similar angle.
 - ii. Check to see that the backs of the blades on each row are set approximately the same distance apart.
 - iii. See recommended settings for your residue type and climate above.
 - e. **Baskets**
 - i. Check to see that all baskets are running on the same pressure setting.
 - ii. Ensure that all baskets freely spin and some are not significantly more restricted compared to others.
 - iii. See recommended setting for your residue type and climate above.
 - f. **Knives**
 - i. Lift the implement out of the ground and ensure knives are identical in make and model.
 - ii. If the implement has been used before, check to make sure wear characteristics on the knives are similar.
6. If you have checked all settings and still do not see uniformity across the rows, or you have tried different settings and cannot achieve a strip like those described above, call 800.658.3127 for additional assistance.

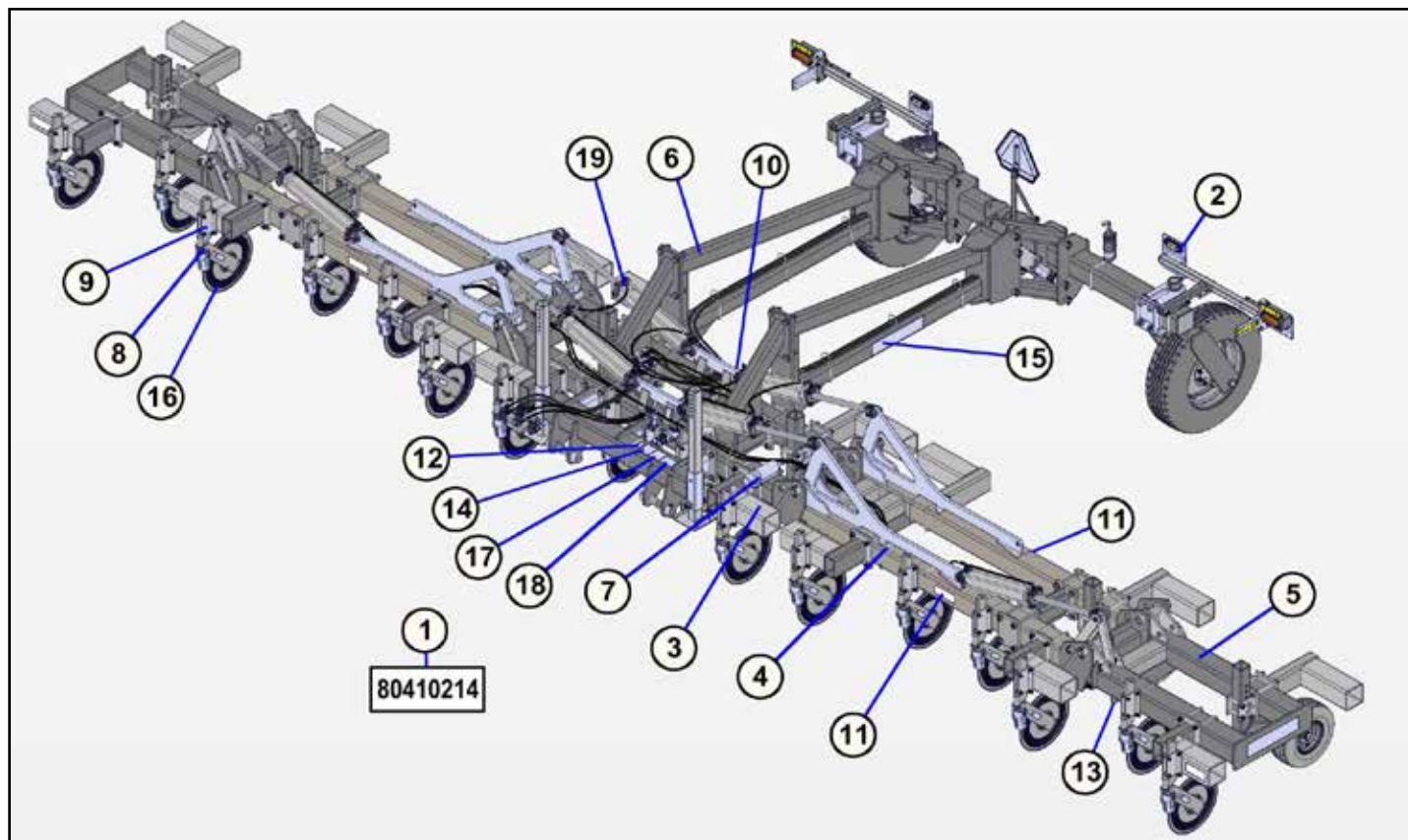


- | | |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>► Preparing for storage</p> | <ul style="list-style-type: none"> A. Store the machine in a dry place. If the storage building has a dirt floor, lower the park stands and support the stand with a board to prevent the stand from entering the ground. B. Scrape or brush off any dirt on the machine and remove all trash. C. Relieve pressure from all hydraulic circuits. Heat from the sun can cause hydraulic systems to become over pressurized and cause hoses or components to burst. D. Before storing, apply grease to all hydraulic cylinder rods to prevent rust or store with cylinders retracted if possible. E. Fasten hydraulic hose ends to front of machine to keep the hose ends above the ground. F. Paint any surface that can rust. G. Lubricate all grease fittings. H. Inspect the machine for worn or broken parts and replace the parts as needed. |
| <p>► Removing from storage</p> | <ul style="list-style-type: none"> A. Remove the protective grease from the hydraulic cylinder rods. B. Assemble any parts taken off for storage or reconditioning. C. Check the complete machine for loose bolts and cotter pins. Check for parts out of adjustment which could result in rapid wear, possible breaking and poor operation. D. Lubricate the complete machine. E. Check tires for correct air pressure. F. Check wheel bolt torque. |

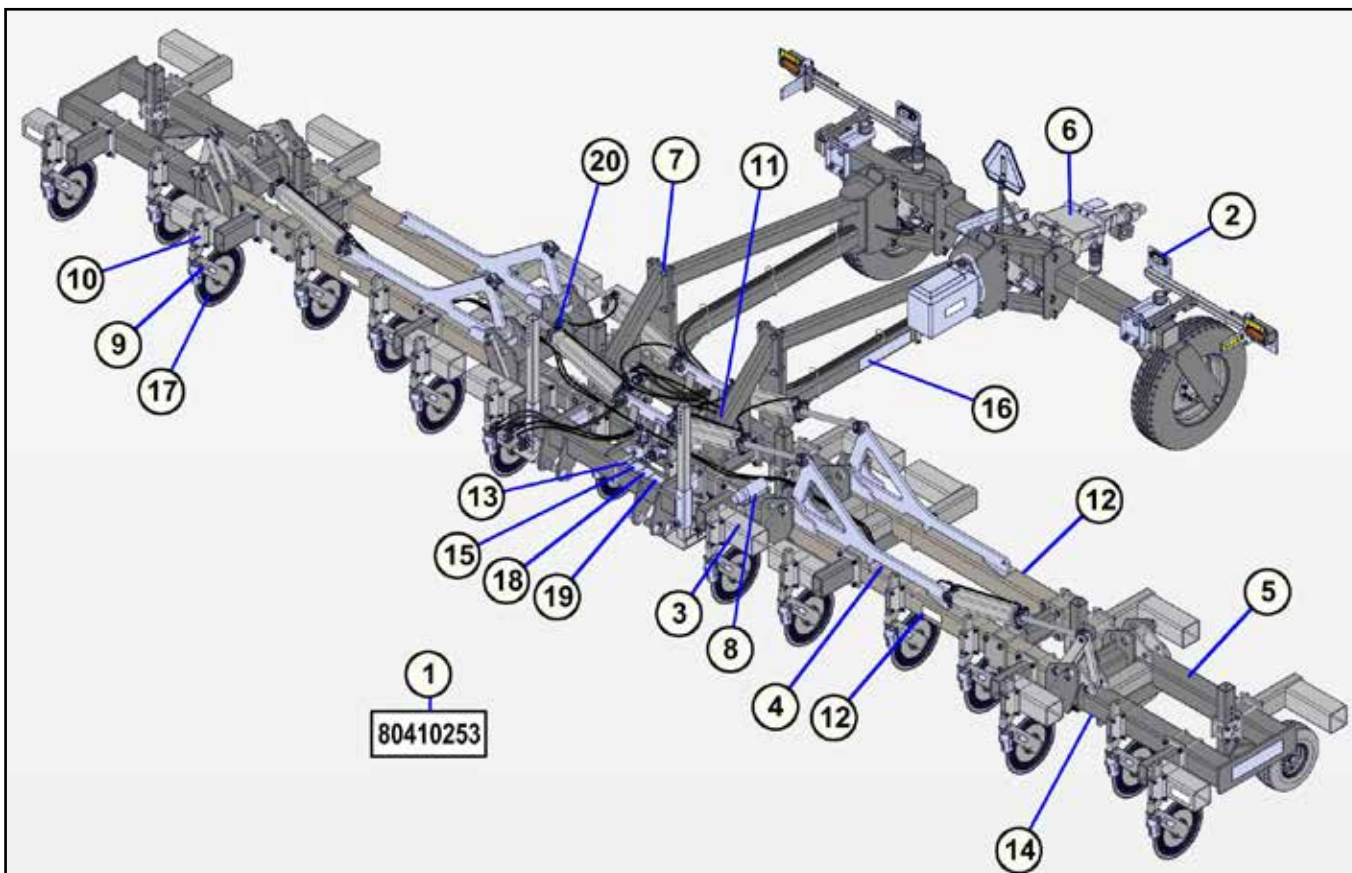


Specifications

Tractor Attachment	3 Point
Main Frame	40' 16 row 30" 5 Section, Folding
Weight: (Less Row Units and Attachments)	Weight: (With Nurse Tank Hitch)
16 Row 30" 14,730 lbs.	16 Row 30" 15,040 lbs.
Rigid 1-1/4" x 2" EdgeBent Per Row:	Weight: 65 lbs.
MaxPac 1-1/4" x 2" EdgeBent PerRow:	Weight: 122 lbs.
Residue Manager Per Row	Weight: 52 lbs.
SealPro Sealers Per Row	Weight: 67 lbs. (Optional Down Pressure Add-on Weight: 16 lbs.)
Blades	18" Hoe Wheels (2 required per row) Weight: 10 lbs.
	17" x 3/4" x 13 Wave (2 required per row) Weight: 10 lbs.
	17" Notched Blunt (2 required per row) Weight: 7 lbs.
Torsion Baskets	Rigid Mount Baskets (1 per row) Weight: 112 lbs.
	MacPac Mount Baskets (1 per row) Weight: 94 lbs.
Lift Assist	Adjustable Spacing: 4,820 lbs.
Lift Assist Tires	295/75R22.5 (95 PSI. Max.)
Wheel Lug Nut Torque	80 to 100 lb. ft.
Nurse Tank Hitch with Safety Tank package	310 lbs.
Pull Pin Kit	Category III & Category IV
Fold Cylinder Size	4" x 24" (3,000 psi. SAE-34024) Repair Kit: DP4310
Lift Assist Cylinder Size	4-1/2" x 8" (3000 psi. SAE-34508) Repair Kit: DP4503
Gauge Wheel	Pin Adjust 3 pair
Gauge Wheel Tire	20.5 x 8.0-10, Load Range E (90 PSI. Maximum.)
Lighting Kit	Standard all Models
Safety Water Tank	With Optional Nurse Tank Hitch
Shanks	HD 1-1/4" x 2" EdgeBent Fertilizer
Coulter	Super 1200
Coulter Blade	20" Fluted
Remote Outlets	3 pair
Transport Width	16 Row 30"...202"
Transport Height	16 Row 30"...180"
Warranty	5 year Frame/1 year Components



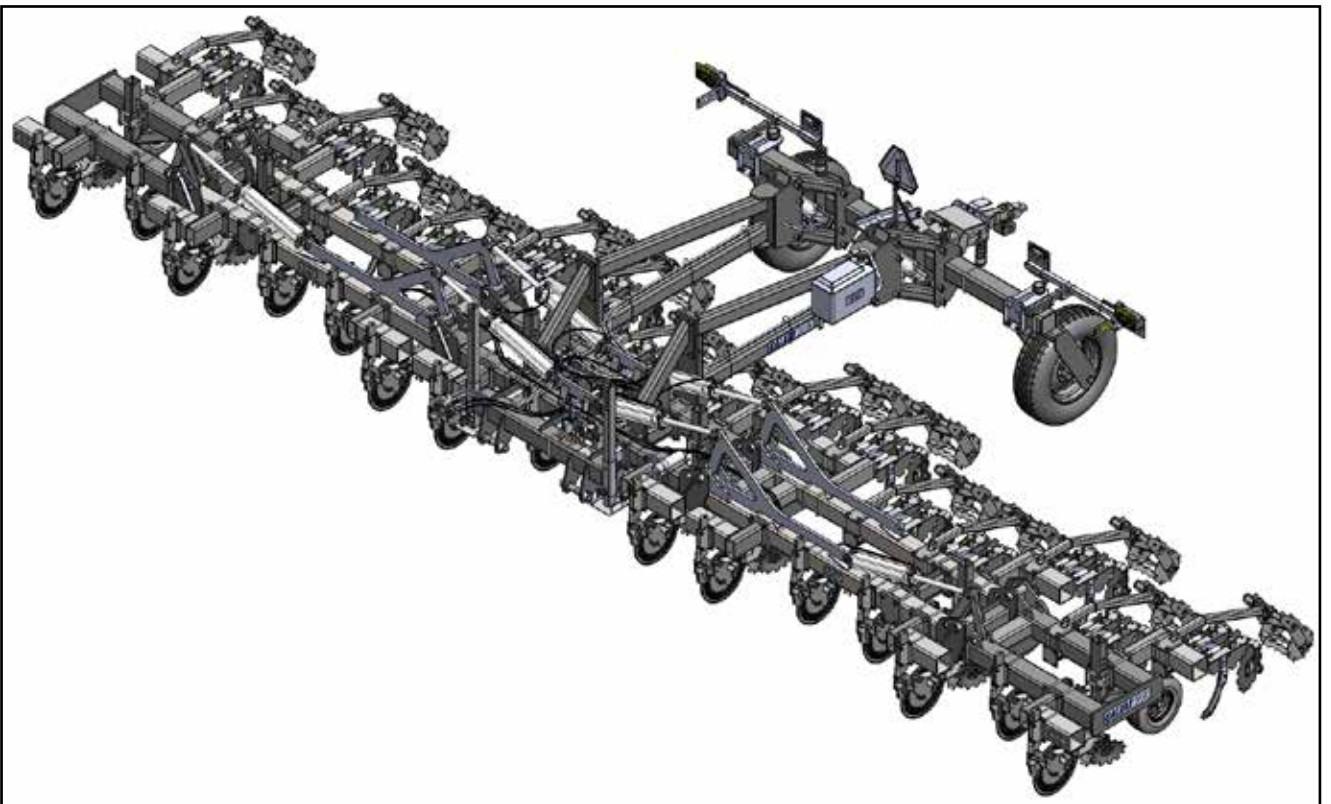
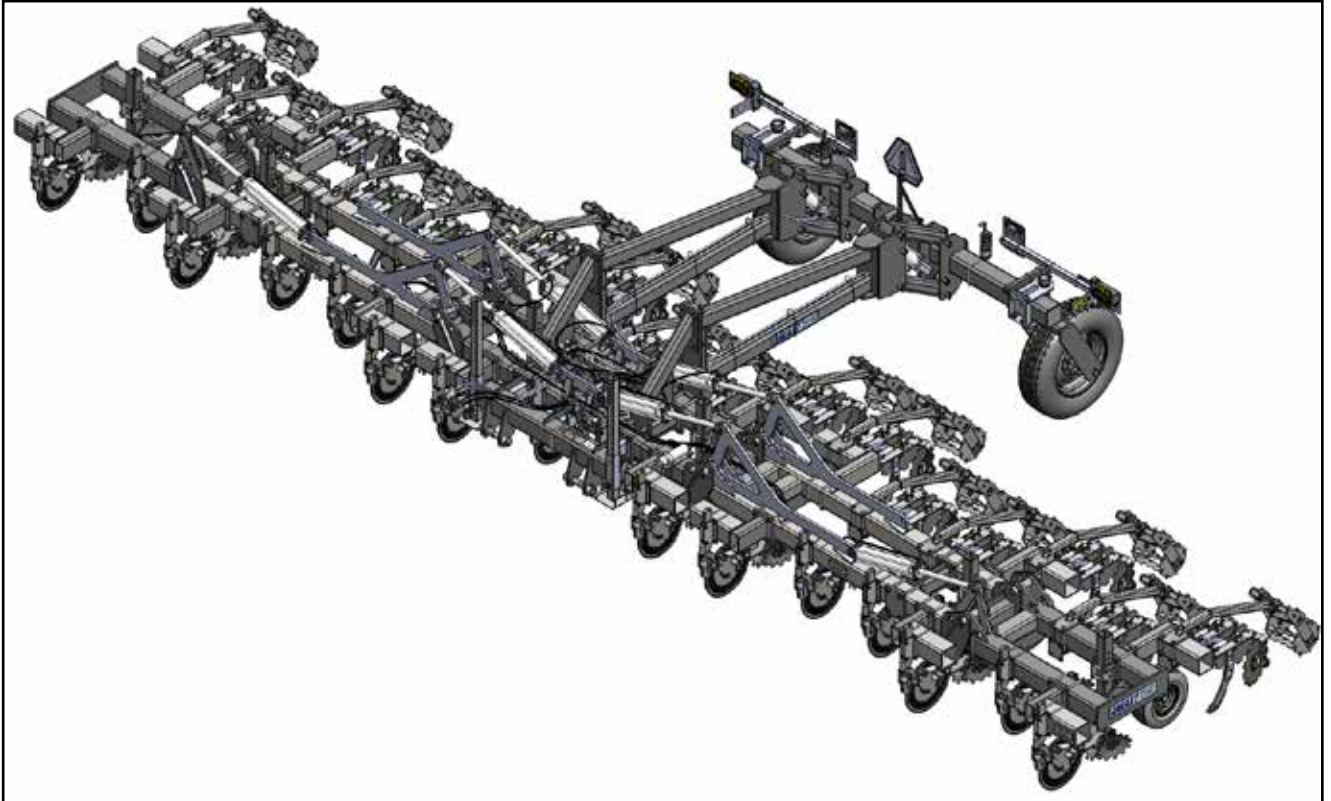
BOM ID	Qty	Item No	Description
1	1	80410214	GALAXY BAR, 16 ROW 30"
2	1	41000027	LIGHTING KIT, GALAXY, LIFT ASSIST
3	1	80410005	GALAXY FRAME, CENTER WITH GAUGE WHEELS
4	1	80410006	GALAXY, PRIMARY WINGS WITH GAUGE WHEELS
5	1	80410011	GALAXY, WINGS, 61" WITH 14-7/8" LINKAGES
6	1	80410043	3-POINT WITH LIFT ASSIST (ADJUSTABLE SPACING)
7	1	AAM2641	MANUAL HOLDER WITH 7" X 7" MOUNTING HARDWARE
8	16	AAM2728	COULTER, SUPER 1200, 16", 1 ROW
9	16	AAM2821	COULTER, FLATBACK CENTERED ASSEMBLY, 7" X 7"
10	1	AM5420	BACKING PLATE, WITH ANTI-ROTATION
11	10	AP2215	DECAL, BLU-JET, 3" X 8"
12	1	AP2231	DECAL, FEMA, 2-1/2" X 1-1/2"
13	4	AP2234	DECAL, DANGER STAND CLEAR FALLING WING
14	1	AP2483	DECAL, DANGER, FALLING FROM EQUIPMENT
15	4	AP2556	DECAL, GALAXY
16	16	AP2701	COULTER BLADE 20" FLUTED
17	1	AP2914	DECAL, WARNING, HIGH-PRESSURE FLUID
18	1	AP2988	DECAL, DANGER, OVERHEAD POWER LINES
19	1	PKG00224	PACKAGE, GALAXY HYDRAULICS, 16 ROW 30"

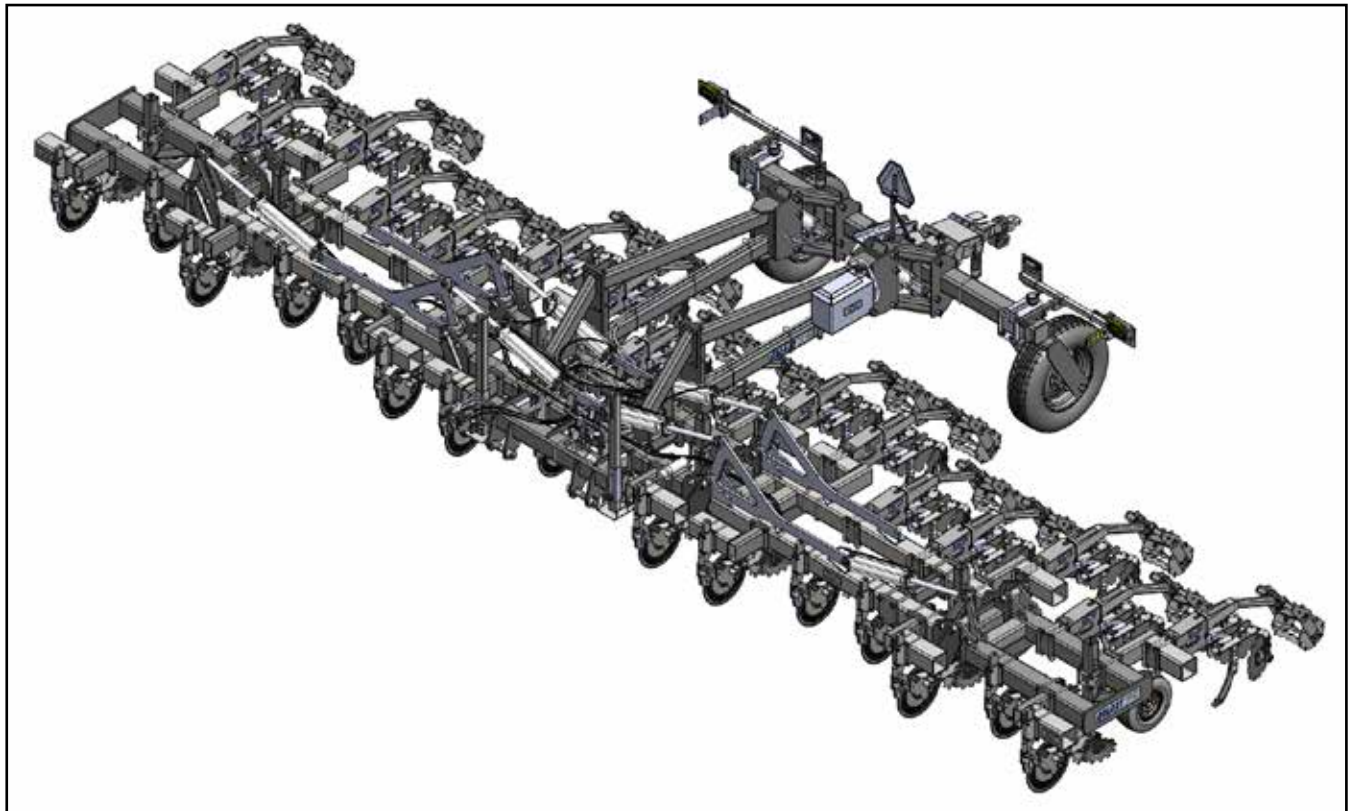
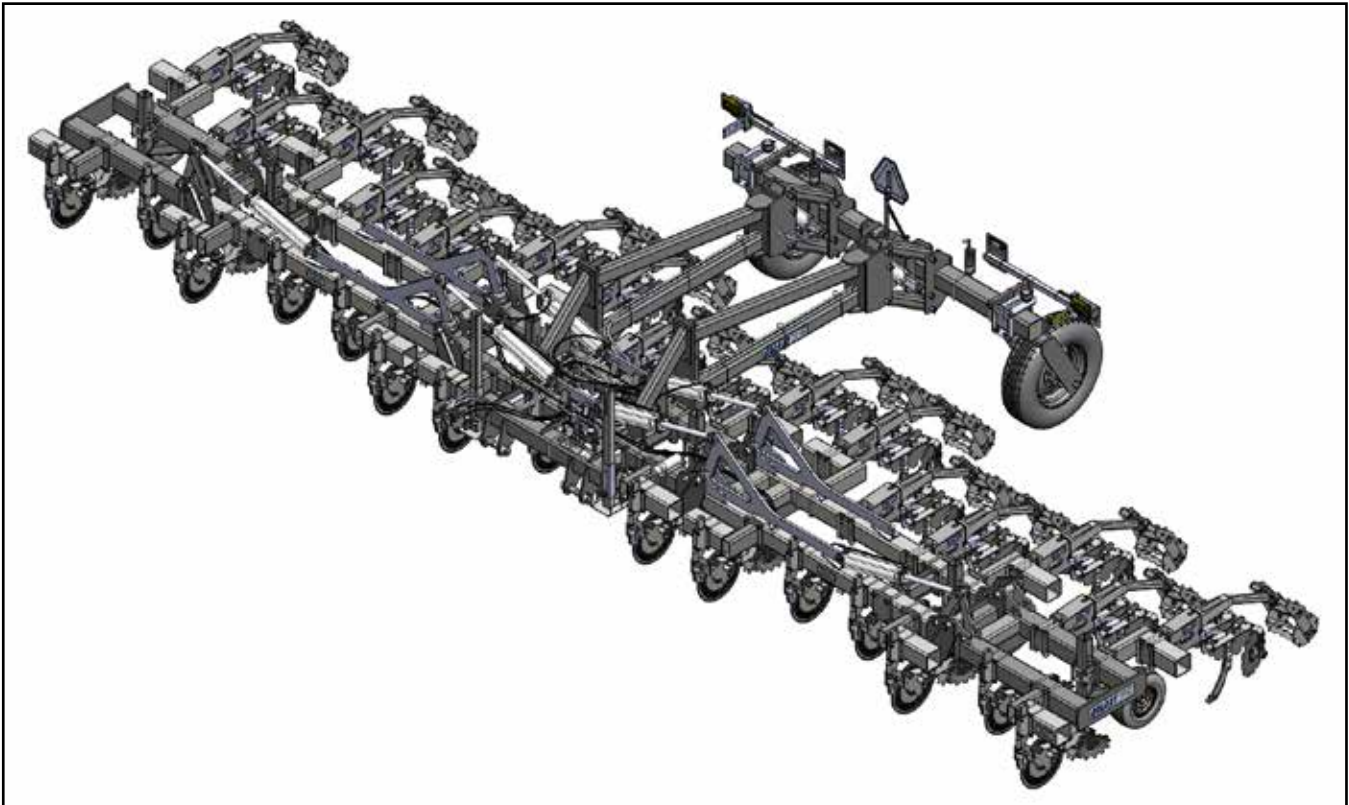


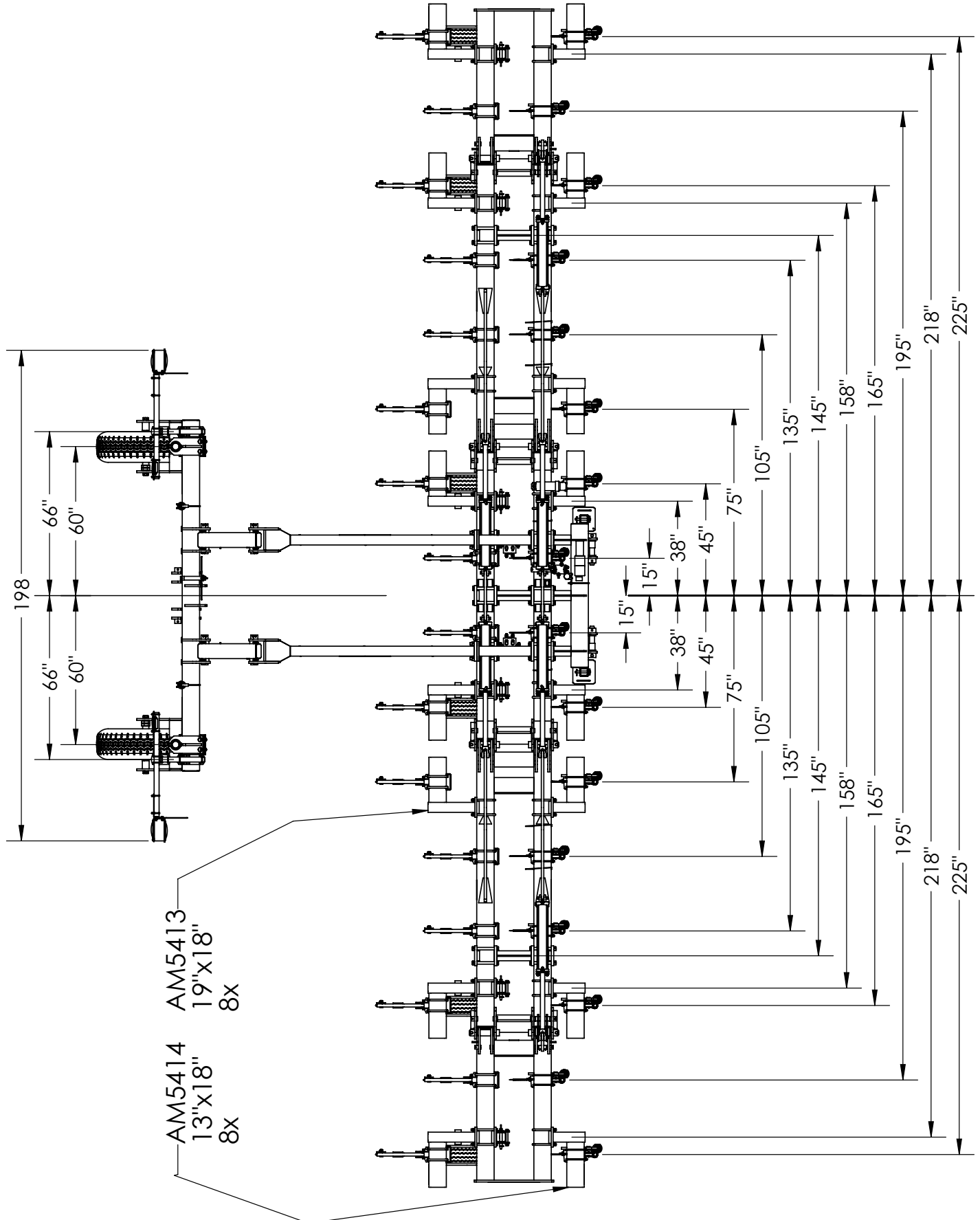
BOM ID	Qty	Item No	Description
1	1	80410253	GALAXY BAR, 16 ROW 30", NURSE TANK HITCH
2	1	41000027	LIGHTING KIT, GALAXY, LIFT ASSIST
3	1	80410005	GALAXY FRAME, CENTER WITH GAUGE WHEELS
4	1	80410006	GALAXY, PRIMARY WINGS WITH GAUGE WHEELS
5	1	80410011	GALAXY, WINGS, 61" WITH 14-7/8" LINKAGES
6	1	80410031	ASSEMBLY, NURSE TANK, GALAXY WITH LIFT ASSIST
7	1	80410043	3-POINT WITH LIFT ASSIST (ADJUSTABLE SPACING)
8	1	AAM2641	MANUAL HOLDER WITH 7" X 7" MOUNTING HARDWARE
9	16	AAM2728	COULTER, SUPER 1200, 16", 1 ROW
10	16	AAM2821	COULTER, FLATBACK CENTERED ASSEMBLY, 7" X 7"
11	1	AM5420	BACKING PLATE, WITH ANTI-ROTATION
12	10	AP2215	DECAL, BLU-JET, 3" X 8"
13	1	AP2231	DECAL, FEMA, 2-1/2" X 1-1/2"
14	4	AP2234	DECAL, DANGER STAND CLEAR FALLING WING
15	1	AP2483	DECAL, DANGER, FALLING FROM EQUIPMENT
16	4	AP2556	DECAL, GALAXY
17	16	AP2701	COULTER BLADE 20" FLUTED
18	1	AP2914	DECAL, WARNING, HIGH-PRESSURE FLUID
19	1	AP2988	DECAL, DANGER, OVERHEAD POWER LINES
20	1	PKG00224	PACKAGE, GALAXY HYDRAULICS, 16 ROW 30"

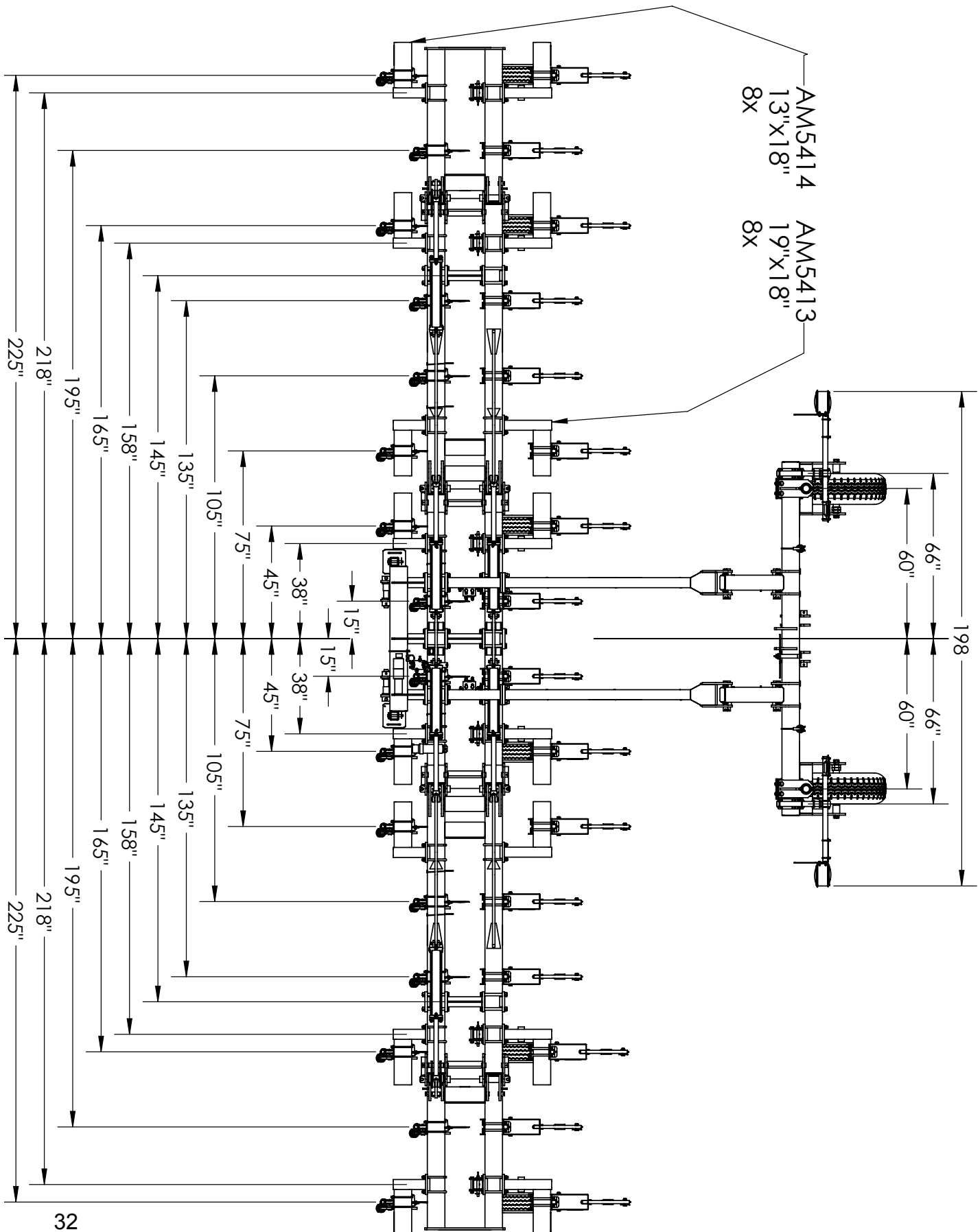


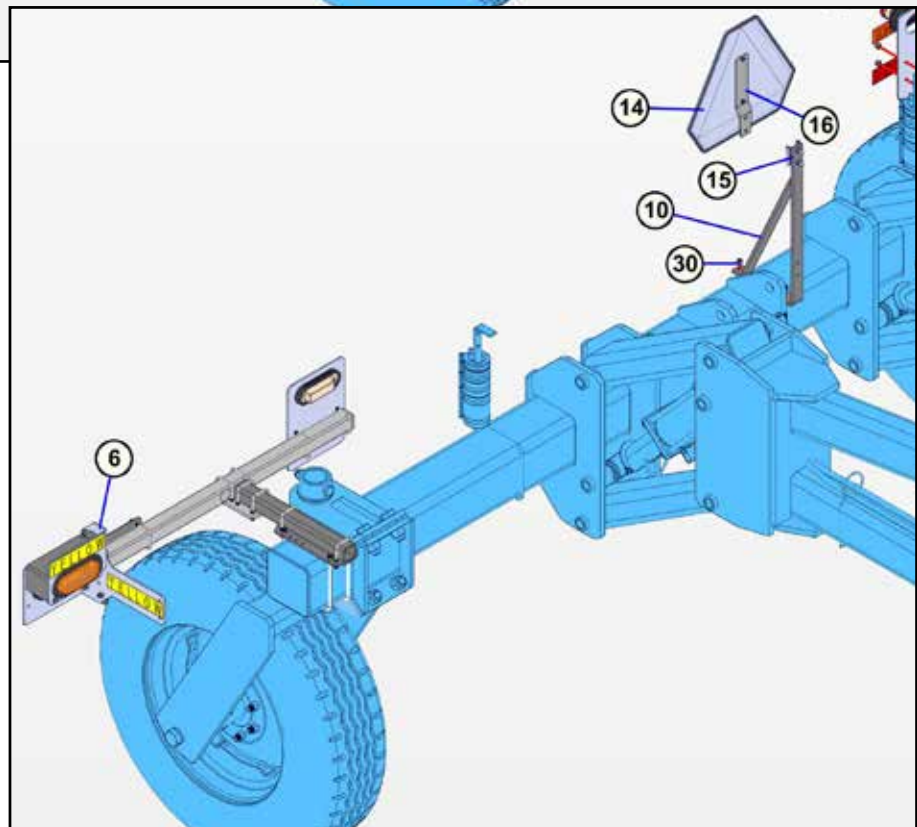
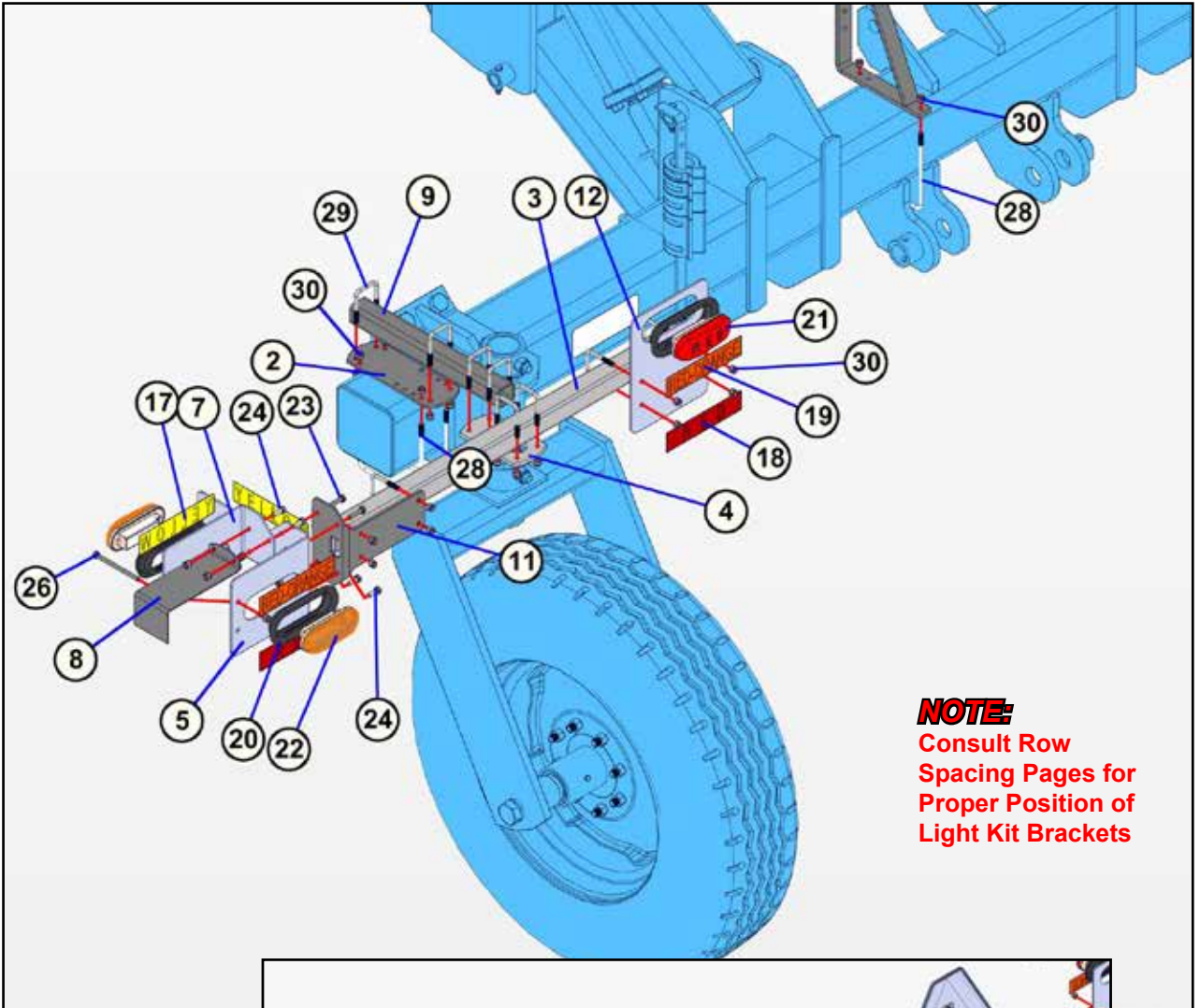
84001630 Galaxy, 16 Row 30", Rigid Shanks
84001630 Galaxy, 16 Row 30", Rigid Shanks, Nurse Tank Hitch





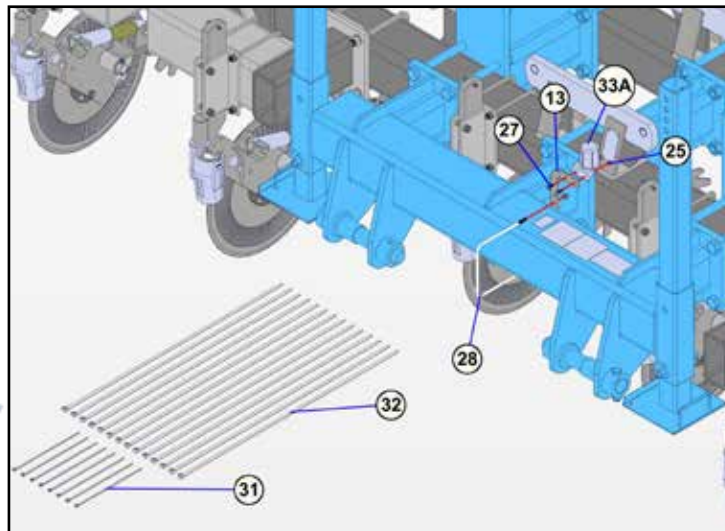
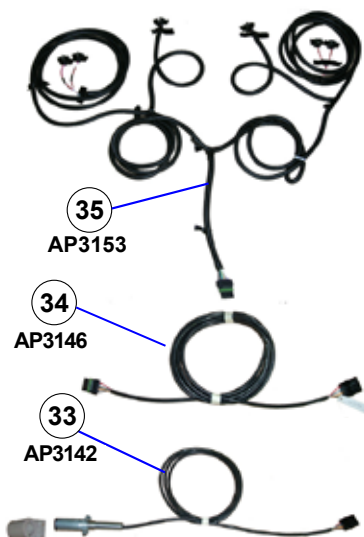


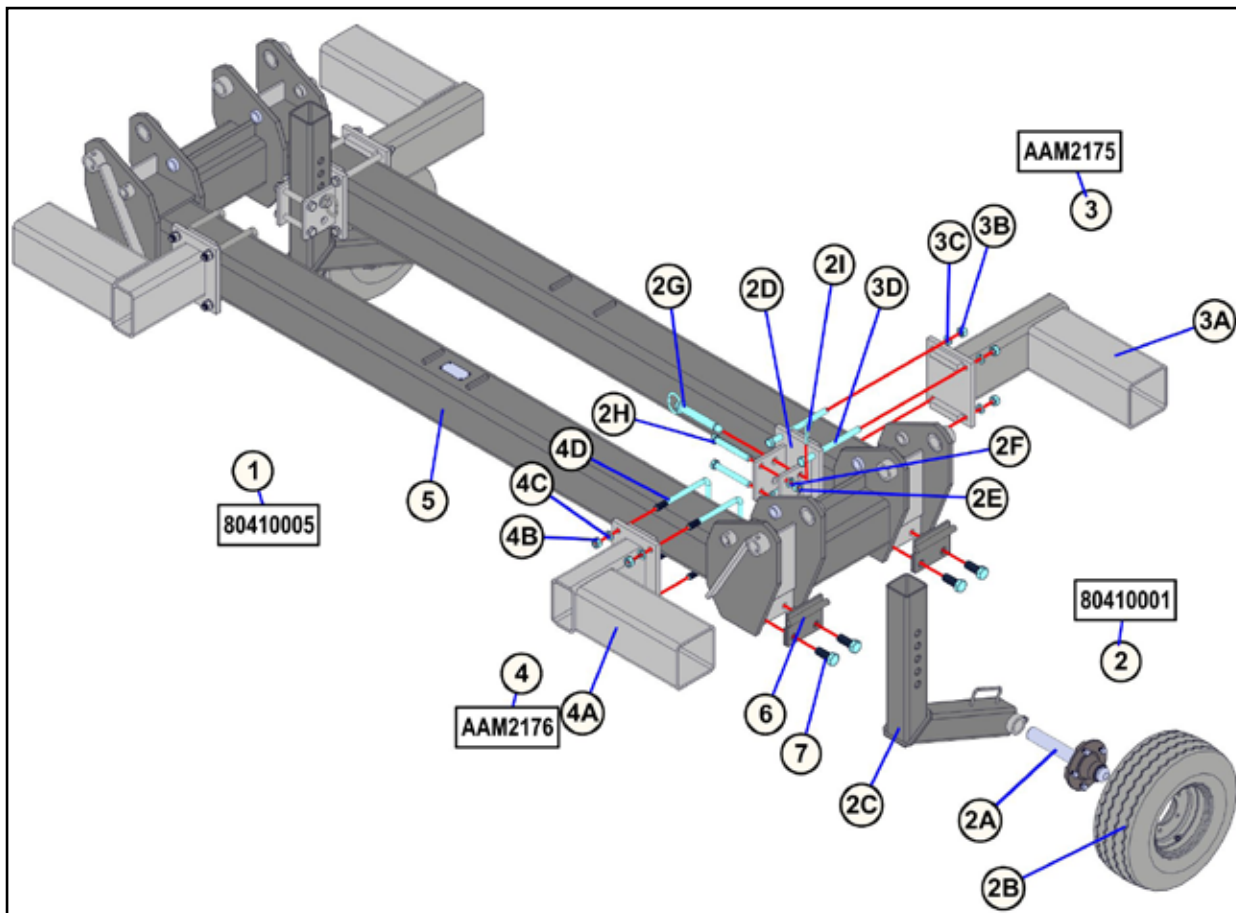




41000027 Lighting Kit, Galaxy, Lift Assist

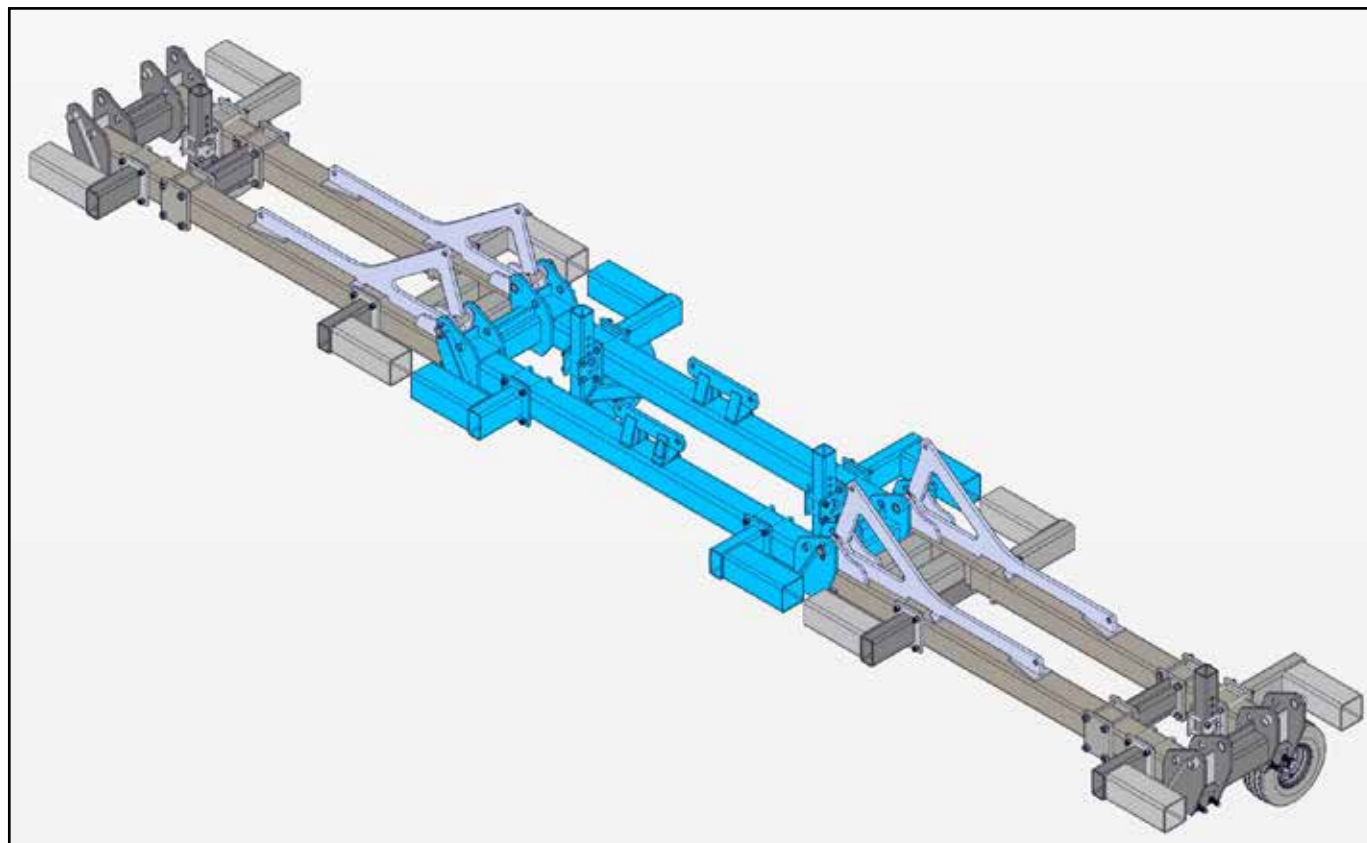
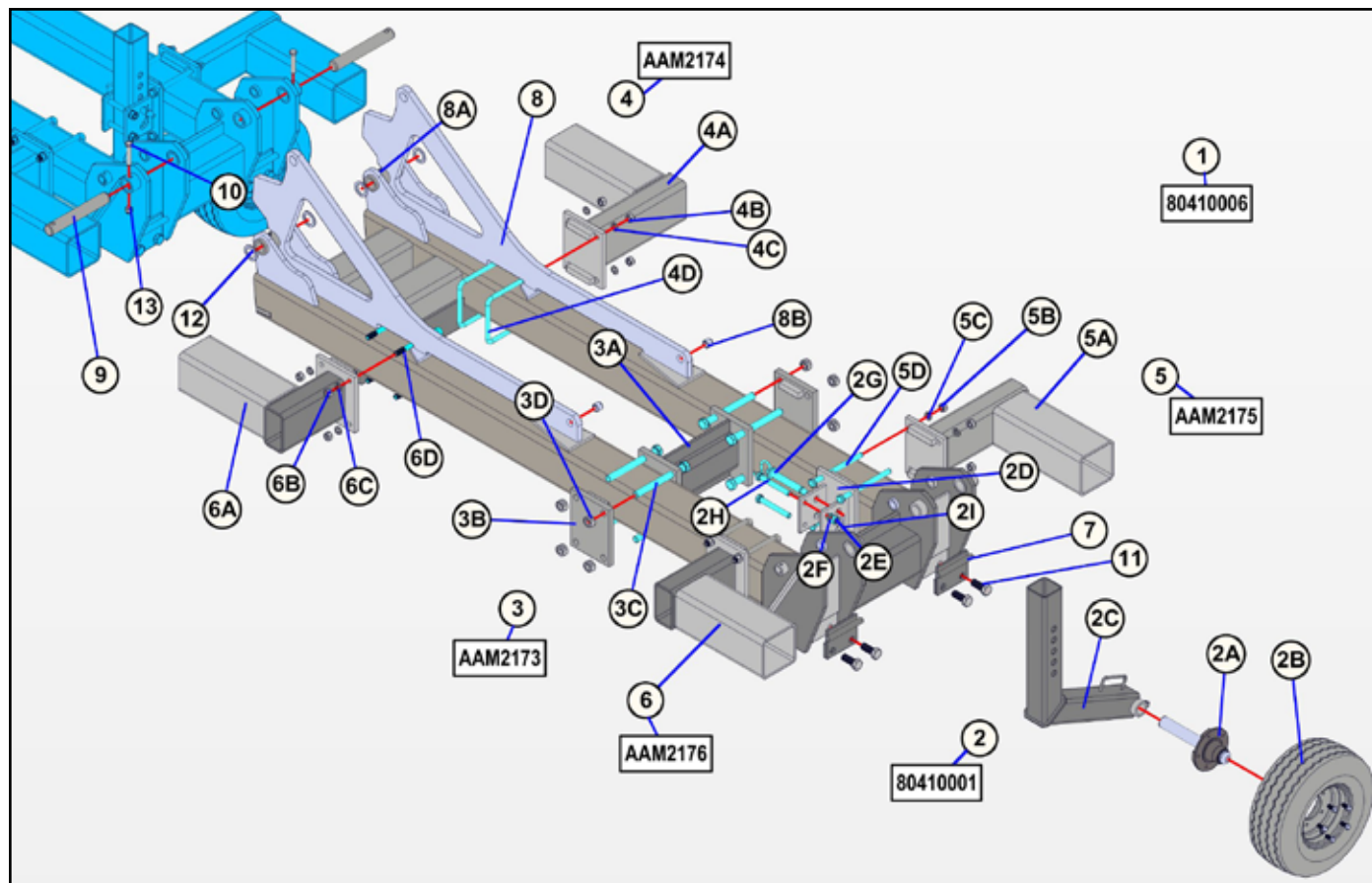
BOM ID	Qty	Item No	Description
1	1	41000027	LIGHTING KIT, GALAXY, LIFT ASSIST
2	2	AM3408	MOUNTING PLATE, LIGHT POST T
3	2	AM3409	TUBE, LIGHT BRACKET, (3'5-7/8")
4	2	AM3410	MOUNTING PLATE, LIGHT POST
5	2	AM3414	LIGHT BRACKET, REAR
6	1	AM3415	LIGHT BRACKET, FRONT, LEFT-HAND
7	1	AM3417	LIGHT BRACKET, FRONT, RIGHT-HAND
8	2	AM3418	SHIELD, LIGHT BRACKET
9	2	AM3419	TUBE, LIGHT BRACKET, (1'5-7/8")
10	1	AM3420	BRACKET, SMV (SLOW MOVING VEHICLE) MOUNTING
11	2	AM3422	LIGHT BRACKET, SIDE MOUNT BAR
12	2	AM3429	LIGHT MOUNT
13	1	AM4575	BRACKET, DUST CAP HOLDER
14	1	AP2542	SMV (SLOW MOVING VEHICLE) SIGN
15	1	AP2543	SMV (SLOW MOVING VEHICLE) MOUNTING SOCKET
16	1	AP2544	SMV (SLOW MOVING VEHICLE) MOUNTING SPADE
17	4	AP2547	DECAL, REFLECTOR, YELLOW, 2" X 9"
18	4	AP2548	DECAL, REFLECTOR, RED, 2" X 9"
19	4	AP2551	DECAL, FLUORESCENT, RED-ORANGE, 2" X 9", NON-REFLECTIVE
20	6	AP3551	GROMMET, OVAL, MODEL 60
21	2	AP4312	LAMP, LED, OVAL, STOP TURN & TAIL, RED
22	4	AP4415	LAMP, LED, OVAL, TURN SIGNAL, AMBER, LED
23	4	BP3005	HEX CAP SCREW, 3/8"-16 X 1-1/2", GRADE 5, PLATED
24	8	BP3006	HEX CAP SCREW, 3/8"-16 X 1", GRADE 5, PLATED
25	2	BP3053	NUT, HEX, 1/4"-20, GRADE 2
26	2	BP3118	HEX CAP SCREW, 3/8"-16 X 5", GRADE 5, PLATED
27	2	BP3233	HEX CAP SCREW, 1/4"-20 X 3/4, GRADE 2, PLATED
28	6	BP3335	U-BOLT, 3/8"-16 X 7" X 8"L, PLATED
29	20	BP3736	U-BOLT, 3/8"-16 X 2"W X 3"L, PLATED
30	66	CP2660	NUT, HEX LOCK, 3/8"-16, NYLOCK
31	8	DP4086	CABLE TIE 11-3/8" STANDARD
32	14	DP4296	CABLE TIE 33"
33	1	AP3142	ELECTRICAL HARNESS, 10' MAIN 5-WIRE, 7 PIN & DUST CAP
33A	1	AP2829	DUST CAP
34	1	AP3146	ELECTRICAL HARNESS, 15' MAIN EXTENSION, 4M-4F TERMINAL
35	1	AP3153	ELECTRICAL HARNESS, 25' REAR, TWO POST





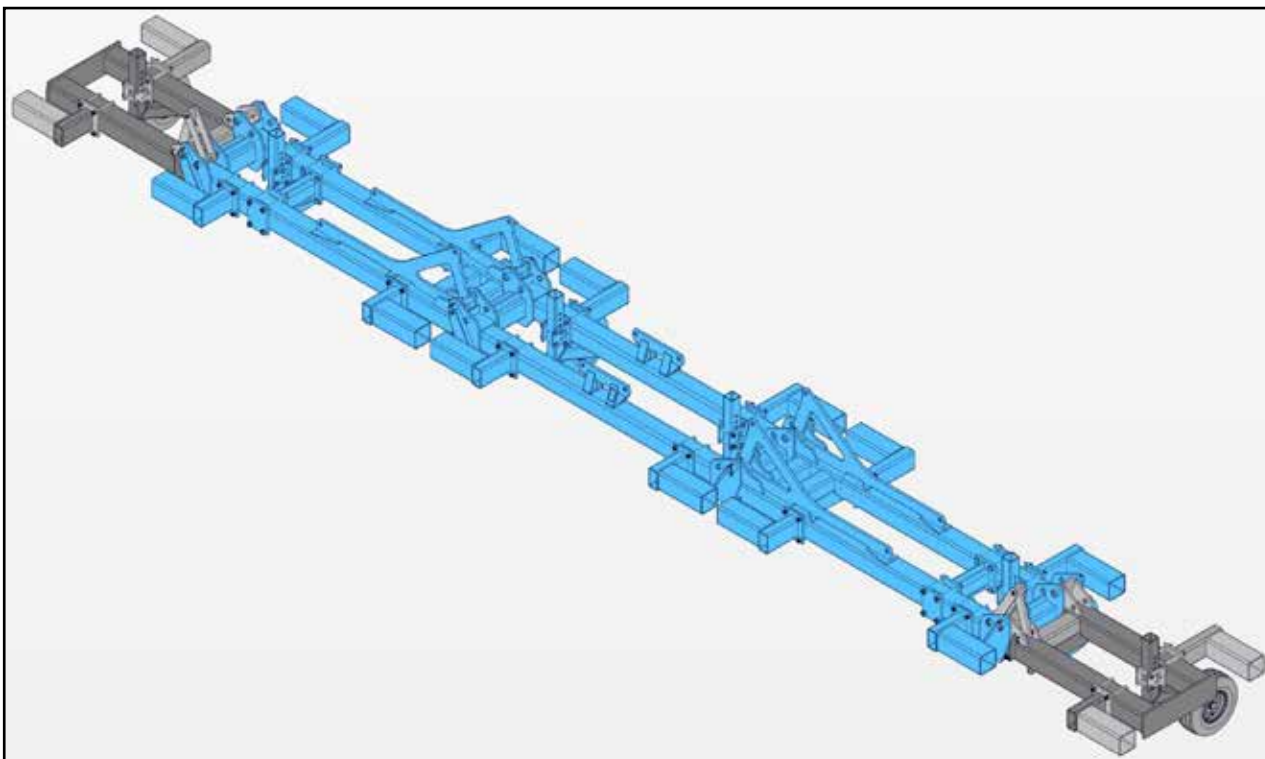
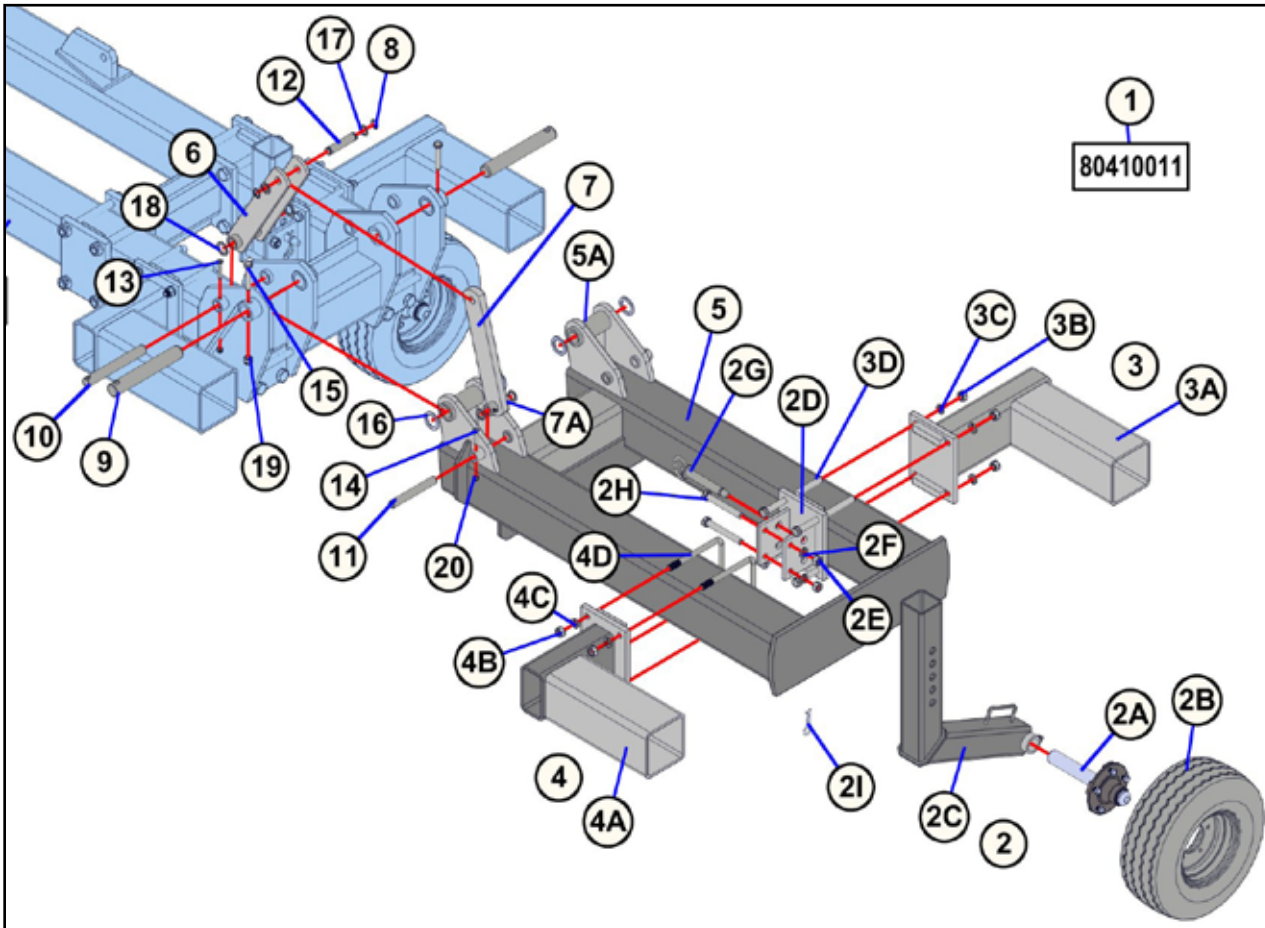
► 80410005 GALAXY, FOLDING CENTER, GAUGE WHEELS

BOM ID	Qty	Item No	Description
1	1	80410005	GALAXY FRAME, CENTER WITH GAUGE WHEELS
2	1	80410001	GAUGE WHEEL, VERTICAL PIN ADJUST, ANGLED, 1 PAIR
2A	2	AAM2707	ASSEMBLY, 511 HUB, 1-3/4" X 13" SPINDLE
2B	2	AAM2781	WHEEL, 20.5 X 8.0-10, 10 X 6, WHITE
2C	2	AM5419	GAUGE WHEEL LEG, VERTICAL PIN ADJUST, ANGLED
2D	2	AM7519	BRACKET, GAUGE WHEEL MOUNTING
2E	4	BP3034	NUT, HEX, 3/4"-10, GRADE 2, PLATED
2F	4	BP3035	WASHER, LOCK, 3/4", PLATED
2G	2	BP3051	PIN, 1" X 6", HITCH, PLATED
2H	4	BP3146	HEX CAP SCREW, 3/4"-10 X 6", GRADE 5, PLATED
2I	2	BP3500	PIN, HAIR CLIP, 3/16"
3	2	AAM2175	BRACKET, OFFSET STAGGER, 19" X 18", WITH HARDWARE
3A	2	AM5413	BRACKET, OFFSET STAGGER, 19" X 18", 7" X 7" MOUNT
3B	8	BP3034	NUT, HEX, 3/4"-10, GRADE 2, PLATED
3C	8	BP3035	WASHER, LOCK, 3/4", PLATED
3D	8	BP3181	HEX CAP SCREW, 3/4"-10 X 10", GRADE 5, PLATED
4	2	AAM2176	BRACKET, OFFSET STAGGER, 13" X 18", WITH HARDWARE
4A	2	AM5414	BRACKET, OFFSET STAGGER, 13" X 18", 7" X 7" MOUNT
4B	8	BP3034	NUT, HEX, 3/4"-10, GRADE 2, PLATED
4C	8	BP3035	WASHER, LOCK, 3/4", PLATED
4D	4	BP3058	U-BOLT, 3/4"-10 X 7"W X 9"L
5	1	AM5400	FRAME, MAIN, GALAXY
6	4	AM5410	WING LEVEL STOP
7	8	BP3199	HEX CAP SCREW, 1"-8 X 2-1/2", GRADE 5, PLATED



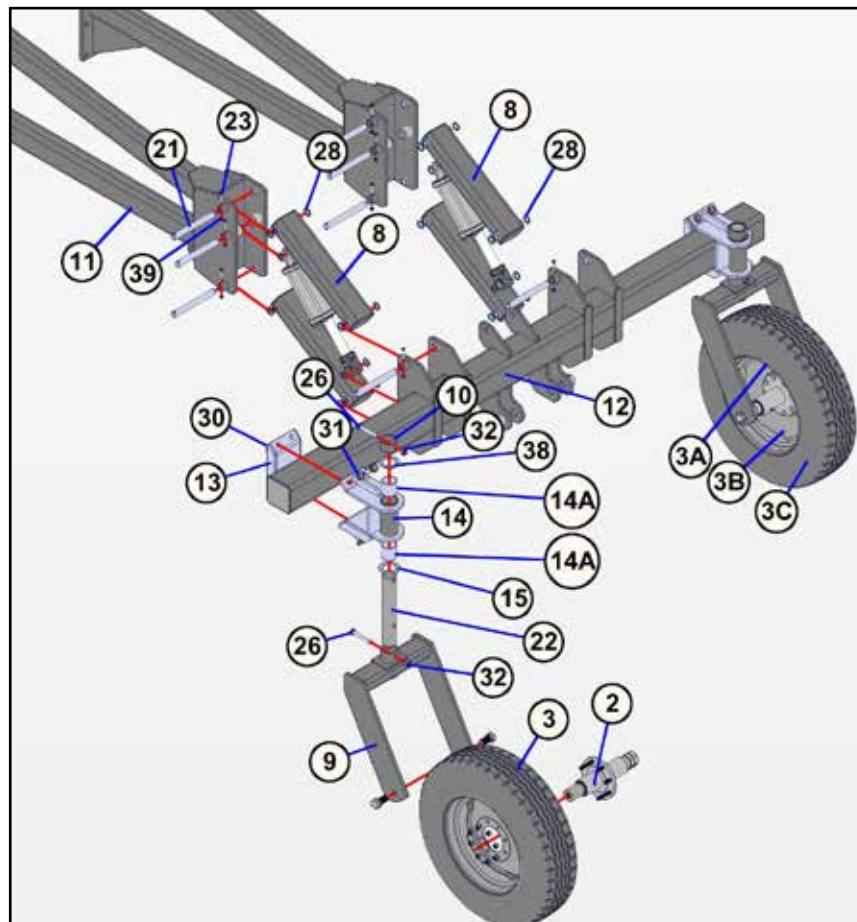
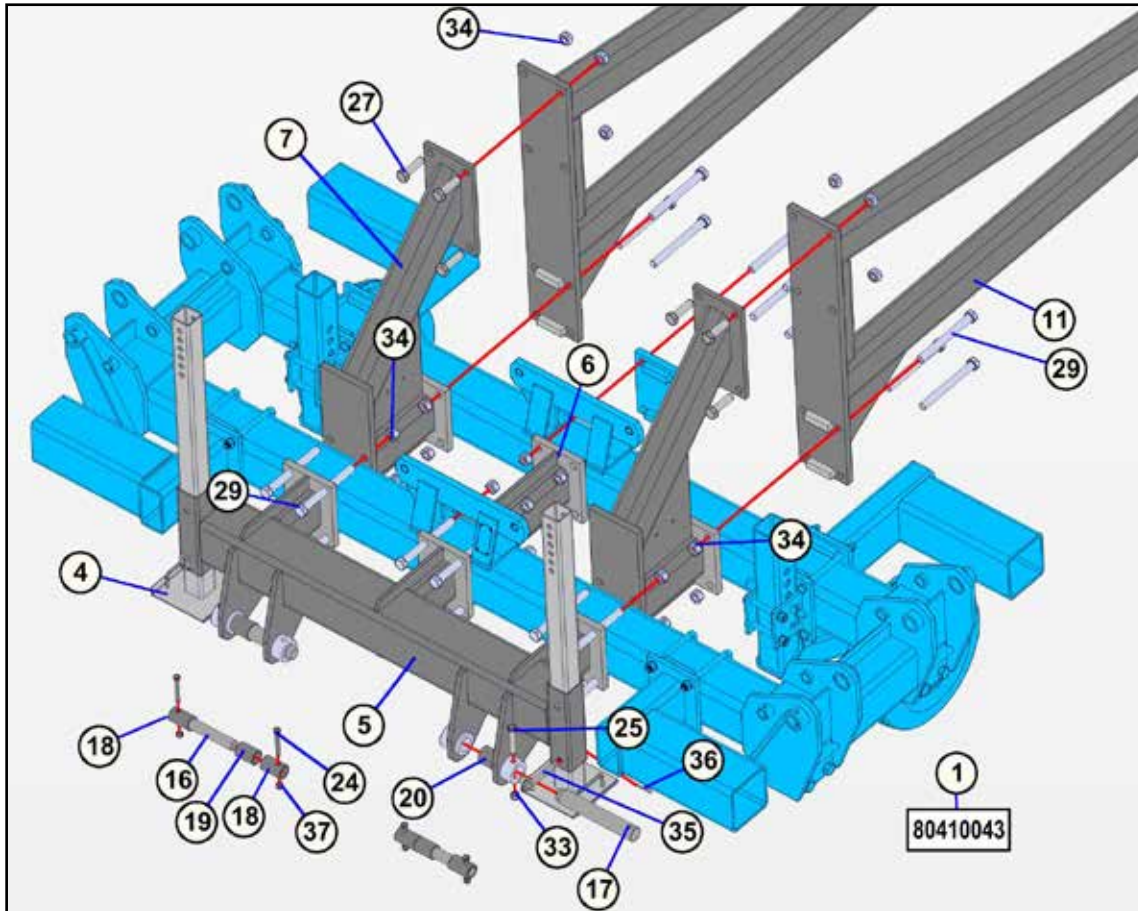
80410006, Galaxy, Primary Wings, 16 Row 30"

BOM ID	Qty	Item No	Description
1	1	80410006	GALAXY, PRIMARY WINGS 16 ROW 30"
2	1	80410001	GAUGE WHEEL, VERTICAL PIN ADJUST, ANGLED, 1 PAIR
2A	2	AAM2707	ASSEMBLY, 511 HUB, & 1-3/4" X 13" SPINDLE
2B	2	AAM2781	WHEEL, 20.5 X 8.0-10, 10 X 6, WHITE
2C	2	AM5419	GAUGE WHEEL LEG, VERTICAL PIN ADJUST, ANGLED
2D	2	AM7519	BRACKET, GAUGE WHEEL MOUNTING
2E	4	BP3034	NUT, HEX, 3/4"-10, GRADE 2, PLATED
2F	4	BP3035	WASHER, LOCK, 3/4", PLATED
2G	2	BP3051	PIN, 1" X 6", HITCH, PLATED
2H	4	BP3146	HEX CAP SCREW, 3/4"-10 X 6", GRADE 5, PLATED
2I	2	BP3500	PIN, HAIR CLIP, 3/16"
3	2	AAM2173	BRACE, BOLT-ON FRAME SUPPORT WITH HARDWARE
3A	2	AM5416	BRACE, BOLT-ON FRAME SUPPORT
3B	4	AM5420	BACKING PLATE, WITH ANTI-ROTATION
3C	16	BP3251	HEX BOLT, 1"-8 x 10", GRADE 5
3D	16	BP3446	NUT, HEX LOCK, 1"-8, REVERSIBLE, PLATED
4	2	AAM2174	BRACKET, OFFSET STAGGER, 19" X 18", 7" X 7", WITH U-BOLTS
4A	2	AM5413	BRACKET, OFFSET STAGGER, 19" X 18", 7" X 7" MOUNTING
4B	8	BP3034	NUT, HEX, 3/4"-10, GRADE 2, PLATED
4C	8	BP3035	WASHER, LOCK, 3/4", PLATED
4D	4	BP3058	U-BOLT, 3/4"-10 X 7"W X 9"L
5	2	AAM2175	BRACKET, OFFSET STAGGER, 19" X 18", 7" X 7", WITH BOLTS
5A	2	AM5413	BRACKET, OFFSET STAGGER, 19" X 18", 7" X 7" MOUNTING
5B	8	BP3034	NUT, HEX, 3/4"-10, GRADE 2, PLATED
5C	8	BP3035	WASHER, LOCK, 3/4", PLATED
5D	8	BP3181	HEX CAP SCREW, 3/4"-10 X 10", GRADE 5, PLATED
6	4	AAM2176	BRACKET, OFFSET STAGGER, 13" X 18", 7" X 7", WITH U-BOLTS
6A	4	AM5414	BRACKET, OFFSET STAGGER, 13" X 18", 7" X 7" MOUNTING
6B	16	BP3034	NUT, HEX, 3/4"-10, GRADE 2, PLATED
6C	16	BP3035	WASHER, LOCK, 3/4", PLATED
6D	8	BP3058	U-BOLT, 3/4"-10 X 7"W X 9"L
7	4	AM5410	WING LEVEL STOP
8	2	AM5454	WING, PRIMARY, GALAXY
8A	8	BP3072	GREASE ZERK, 1/4"-28
8B	4	BP3516	TENSION BUSHING, 1-1/4" X 1" X 1" OAL
9	4	BM3485	PIN, 1-3/4" X 12-1/8" OAL, WITH 21/32" HOLE, PLATED
10	4	BP3135	HEX CAP SCREW, 5/8"-11 X 3-1/2", GRADE 5, PLATED
11	8	BP3199	HEX CAP SCREW, 1"-8 X 2-1/2", GRADE 5, PLATED
12	8	BP3205	MACHINERY BUSHING, 2-1/2" OD X 1-3/4" ID, 10 GAUGE, PLATED
13	4	BP3375	NUT, HEX LOCK, 5/8"-11, NYLOCK



80410011, Galaxy, Secondary Wings, 61"

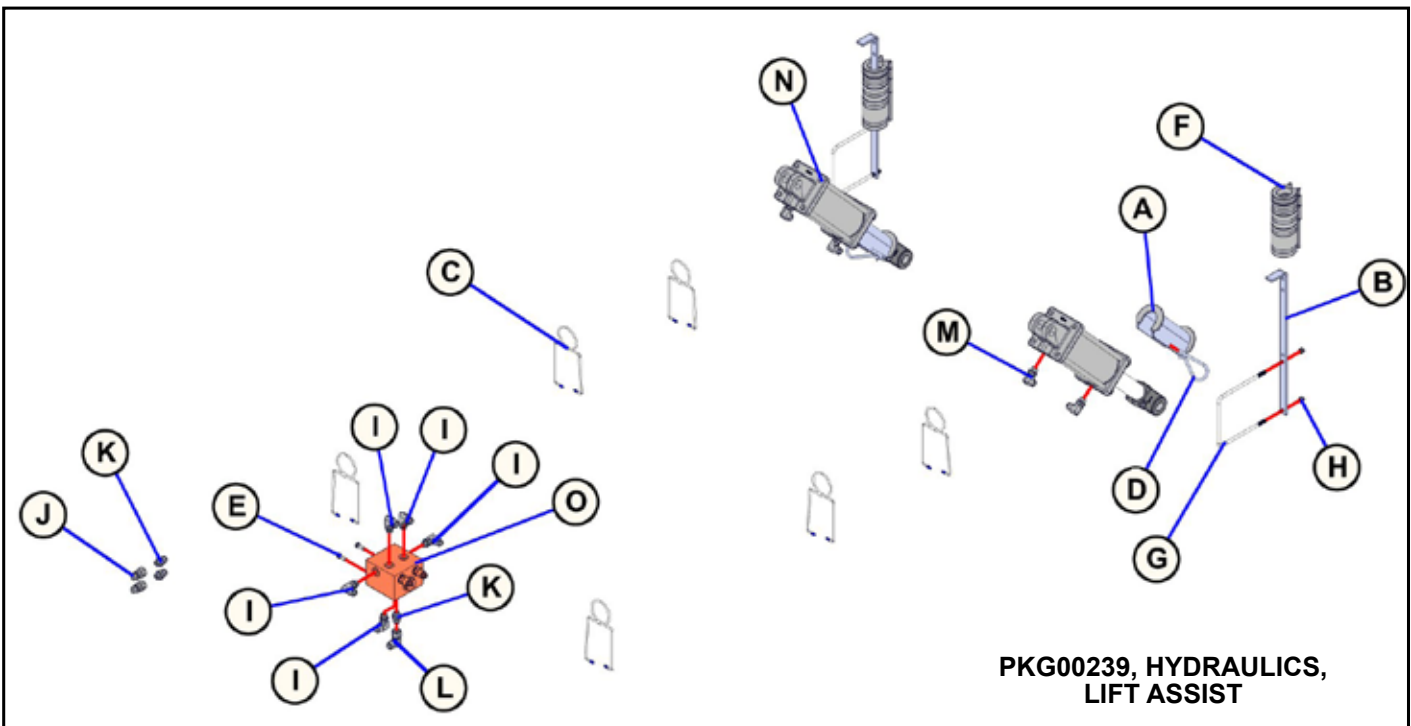
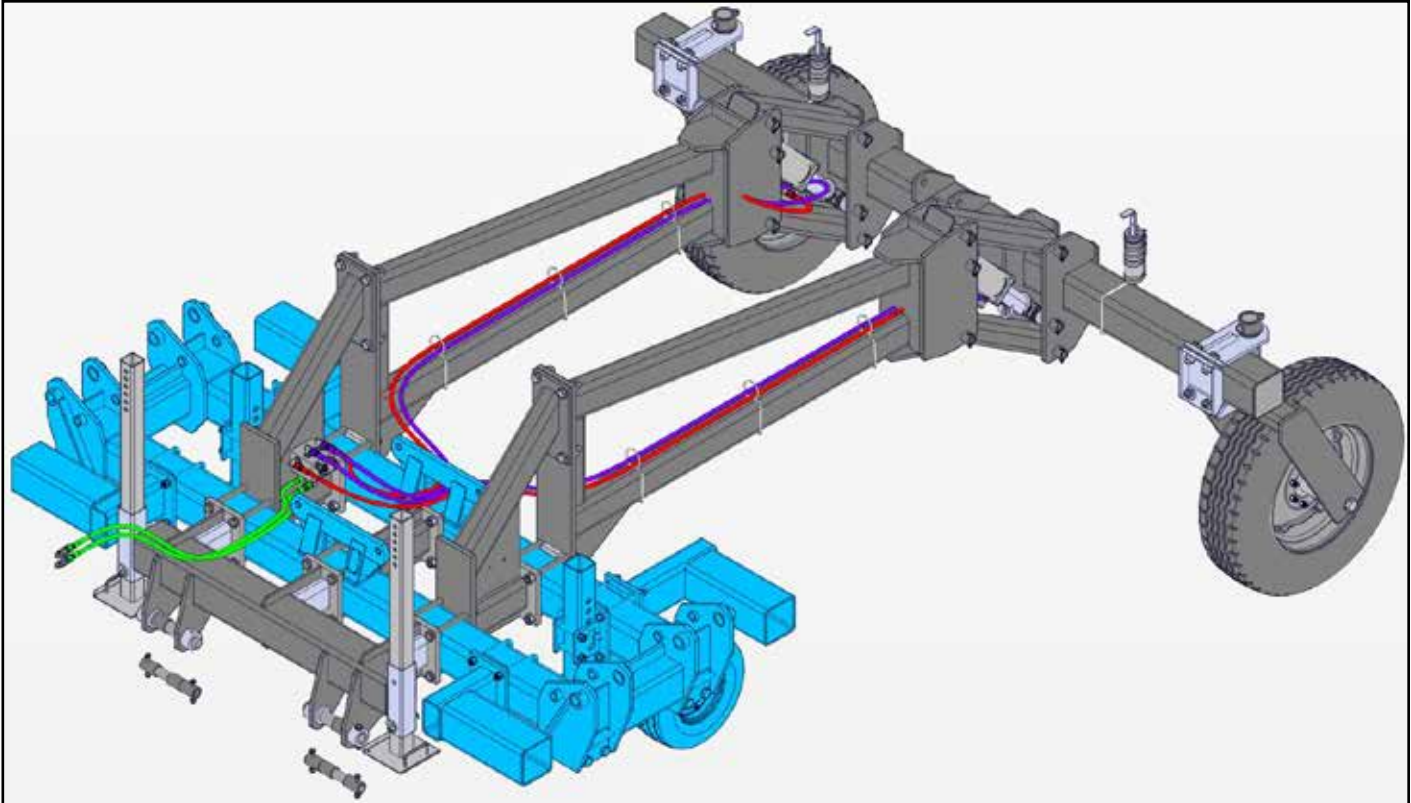
BOM ID	Qty	Item No	Description
1	1	80410011	GALAXY, WINGS, 61" WITH 14-7/8" LINKAGES
2	1	80410001	GAUGE WHEEL, VERTICAL PIN ADJUST, ANGLED, 1 PAIR
2A	2	AAM2707	ASSEMBLY, HUB & SPINDLE, 511 HUB, 1-3/4" X 13"
2B	2	AAM2781	WHEEL, 20.5 X 8.0-10, 10 X 6, WHITE
2C	2	AM5419	GAUGE WHEEL LEG, VERTICAL PIN ADJUST, ANGLED
2D	2	AM7519	BRACKET, GAUGE WHEEL MOUNTING
2E	4	BP3034	NUT, HEX, 3/4"-10, GRADE 2, PLATED
2F	4	BP3035	WASHER, LOCK, 3/4", PLATED
2G	2	BP3051	PIN, 1" X 6", HITCH, PLATED
2H	4	BP3146	HEX CAP SCREW, 3/4"-10 X 6", GRADE 5, PLATED
2I	2	BP3500	PIN, HAIR CLIP, 3/16"
3	2	AAM2175	BRACKET, OFFSET STAGGER, 19" X 18", 7" X 7", WITH BOLTS
3A	2	AM5413	BRACKET, OFFSET STAGGER, 19" X 18", 7" X 7" MOUNTING
3B	8	BP3034	NUT, HEX, 3/4"-10, GRADE 2, PLATED
3C	8	BP3035	WASHER, LOCK, 3/4", PLATED
3D	8	BP3181	HEX CAP SCREW, 3/4"-10 X 10", GRADE 5, PLATED
4	2	AAM2176	BRACKET, OFFSET STAGGER, 13" X 18", 7" X 7", WITH U-BOLTS
4A	2	AM5414	BRACKET, OFFSET STAGGER, 13" X 18", 7" X 7" MOUNTING
4B	8	BP3034	NUT, HEX, 3/4"-10, GRADE 2, PLATED
4C	8	BP3035	WASHER, LOCK, 3/4", PLATED
4D	4	BP3058	U-BOLT, 3/4"-10 X 7"W X 9"L
5	2	AM5404	WING, GALAXY, 61"
5A	4	BP3072	GREASE ZERK, 1/4"-28
6	2	AM7587	LINKAGE, WING FOLD, DOUBLE, 14-7/8"
6A	2	BP3072	GREASE ZERK, 1/4"-28
7	2	AM7588	LINKAGE, WING FOLD, SINGLE, 14-7/8"
7A	4	BP3072	GREASE ZERK, 1/4"-28
8	4	AP2407	SNAP RING, 1" EXTERNAL, HEAVY DUTY
9	4	BM3485	PIN, 1-3/4" X 12-1/8" OAL, WITH 21/32" HOLE, PLATED
10	2	BM3486	PIN, 1-1/4" X 10-7/16" OAL, WITH 13/32 HOLE, PLATED
11	2	BM3487	PIN, 1" X 7-3/4" OAL, WITH 13/32 HOLE, PLATED
12	2	BM3543	PIN, 1" X 4-5/16", DOUBLE GROOVED, PLATED
13	2	BP3096	HEX CAP SCREW, 3/8"-16 X 2-1/2", GRADE 5, PLATED
14	2	BP3115	HEX CAP SCREW, 3/8"-16 X 2", GRADE 5, PLATED
15	4	BP3135	HEX CAP SCREW, 5/8"-11 X 3-1/2", GRADE 5, PLATED
16	8	BP3205	MACHINERY BUSHING, 2-1/2" OD X 1-3/4" ID, 10 GAUGE, PLATED
17	8	BP3215	MACHINERY BUSHING, 1-1/2" OD X 1" ID, 14 GAUGE, PLATED
18	4	BP3249	MACHINERY BUSHING, 1-7/8" OD X 1-1/4" ID, 14 GAUGE, PLATED
19	4	BP3375	NUT, HEX LOCK, 5/8"-11, NYLOCK
20	4	CP2660	NUT, HEX LOCK, 3/8"-16, NYLOCK

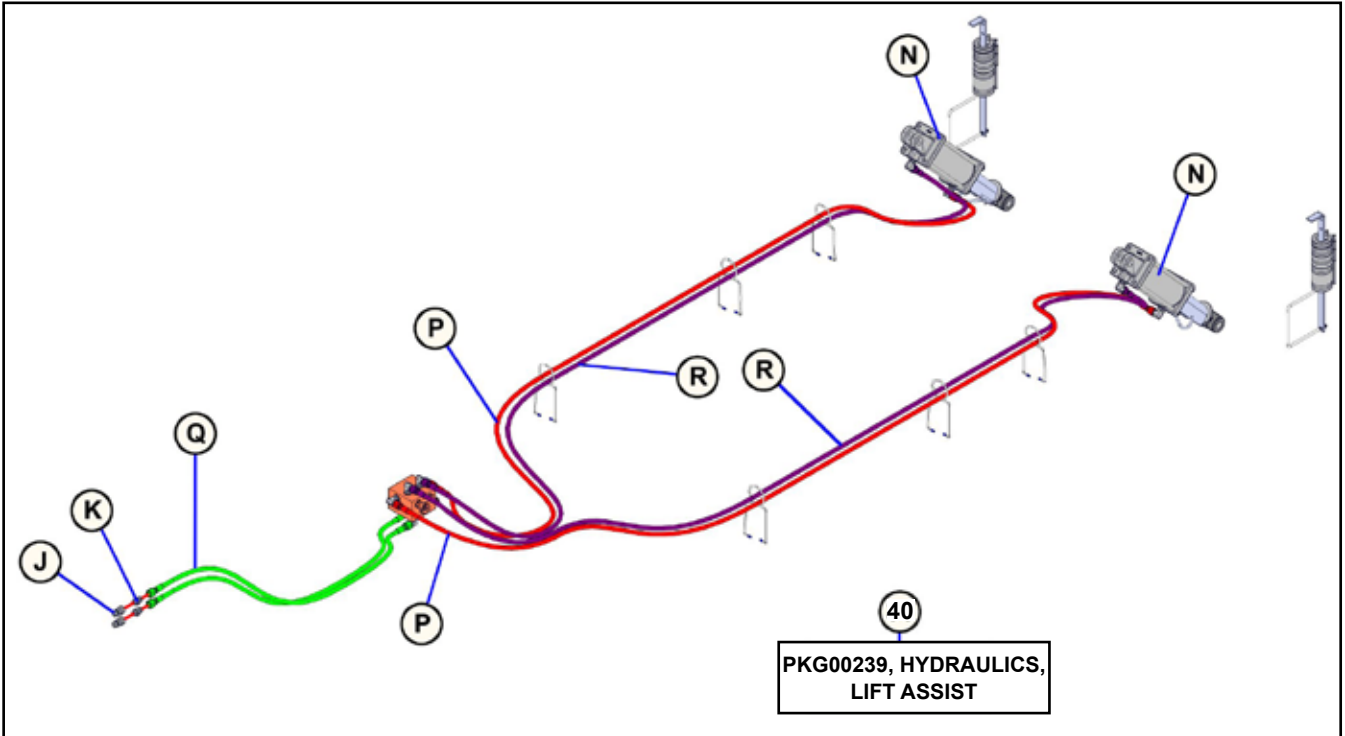




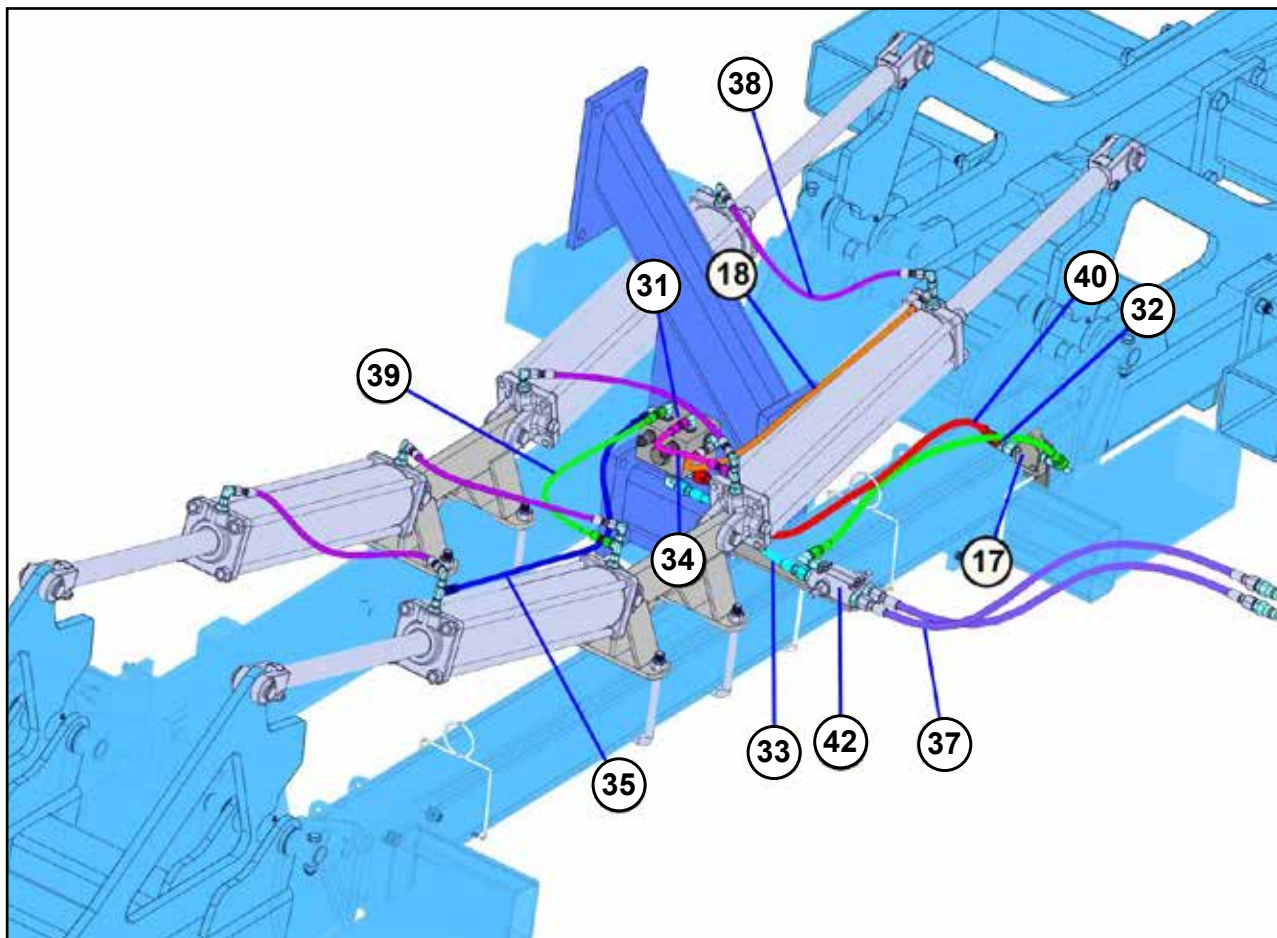
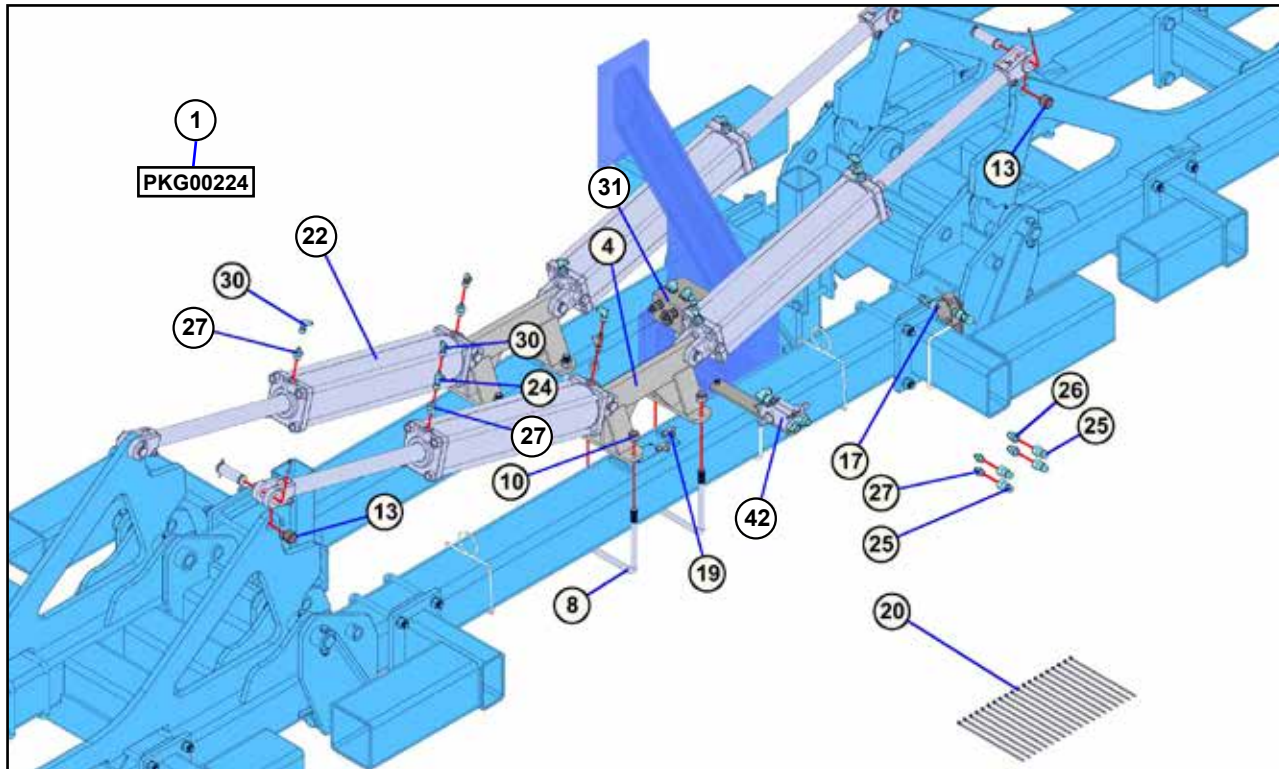
80410043 Bolt-On 3-Point, With Lift Assist

BOM ID	Qty	Item No	Description
1	1	80410043	3-POINT WITH LIFT ASSIST (ADJUSTABLE SPACING)
2	2	AAM2714	ASSEMBLY, HUB & SPINDLE, STRADDLE HUB
3	2	AAM2782	WHEEL, 295/75R22.5, 22.5 X 8.25 X 8, WHITE, RECAP
3A	2	AP2790	VALVE STEM, METAL
3B	2	AP2894	RIM, 22.5 X 8.25 X 8, -1-1/2" OFFSET, WHITE
3C	2	AP2895	TIRE, 295/75R22.5, RIBBED IMPLEMENT, RECAP
4	2	AM4682	PARK STAND
5	1	AM5408	HITCH, BOLT-ON SEMI-MOUNTED
6	1	AM5416	BRACE, BOLT-ON FRAME SUPPORT
7	2	AM5437	LIFT ASSIST, FRONT BRACE
8	4	AM5439	LIFT ASSIST, LINKAGE, 25" CENTER
9	2	AM5440	LIFT ASSIST, CASTER FORK
10	2	AM5444	BUSHING, 3-3/4" X 3-1/16" X 2" OAL
11	2	AM5446	LIFT ASSIST, FRAME
12	1	AM5447	LIFT ASSIST, CASTER BAR, ADJUSTABLE
13	2	AM5448	BRACKET, MOUNTING CLAMP, 7" X 7"
14	2	AM5453	LIFT ASSIST, CASTER WHEEL MOUNT, 7" X 7"
14A	4	AP3138	BUSHING, SELF-LUBRICATED, 3" ID X 3" LONG
15	2	AP3139	WASHER, THRUST, 3" ID X 4-1/2" OD X .078"
16	2	BM3628	PIN, CATEGORY III, LOWER LINK
17	2	BM3640	PIN, 2" X 12-5/8" OAL
18	4	BM3653	BUSHING, CATEGORY III CONVERSION, 1-1/2" ID X 3-1/8" OAL
19	2	BM3654	SPACER BUSHING, CATEGORY III, 1-1/2" ID X 2-3/4" OAL
20	2	BM3655	SPACER BUSHING, CATEGORY IV, 2.067" ID X 2-3/4" OAL
21	12	BM3711	PIN, 1-1/4" X 12" OAL, WITH 13/32" HOLE, PLATED
22	2	BM3712	PIN, 3" X 17-15/16" OAL, WITH 25/32" HOLES, PLATED
23	12	BP3096	HEX CAP SCREW, 3/8"-16 X 2-1/2", GRADE 5, PLATED
24	4	BP3131	HEX CAP SCREW, 1/2"-13 X 4", GRADE 5, PLATED
25	2	BP3136	HEX CAP SCREW, 5/8"-11 X 4", GRADE 5, PLATED
26	4	BP3144	HEX CAP SCREW, 3/4"-10 X 5", GRADE 5, PLATED
27	8	BP3200	HEX CAP SCREW, 1"-8 X 3-1/2", GRADE 5, PLATED
28	24	BP3249	MACHINERY BUSHING, 1-7/8" OD X 1-1/4" ID, 14 GAUGE, PLATED
29	24	BP3251	HEX BOLT, 1"-8 X 10", GRADE 5
30	8	BP3275	NUT, HEX, 1"-8, GRADE 8, PLATED
31	8	BP3290	HEX CAP SCREW, 1"-8 X 3", GRADE 8, PLATED
32	4	BP3296	NUT, HEX LOCK, 3/4"-10, NYLOCK
33	2	BP3375	NUT, HEX LOCK, 5/8"-11, NYLOCK
34	32	BP3446	NUT, HEX LOCK, 1"-8, REVERSIBLE, PLATED
35	2	BP3502	PIN, HITCH, 3/4" X 4-1/2"
36	2	BP3504	PIN, HAIR CLIP, 1/8"
37	4	BP3704	NUT, LOCK, NYLON INSERT, 1/2"-13
38	2	BP3707	MACHINERY BUSHING, 4-1/4" OD X 3" ID, 10 GAUGE, PLATED
39	12	CP2660	NUT, HEX LOCK, 3/8"-16, NYLOCK
40	1	PKG00239	PACKAGE, HYDRAULIC, LIFT ASSIST



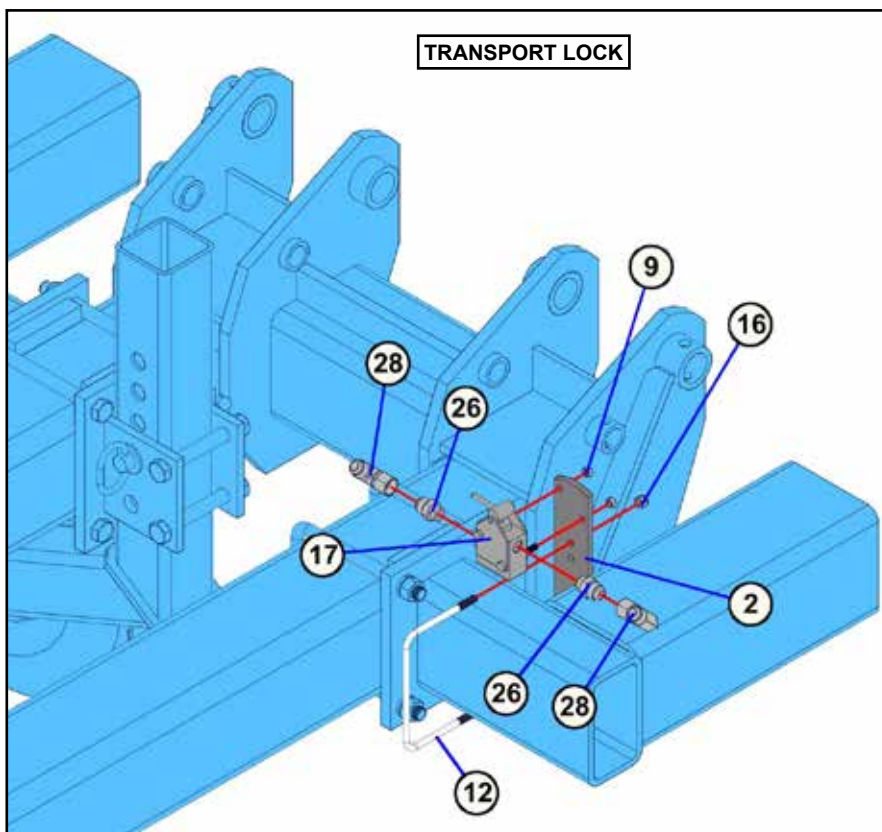
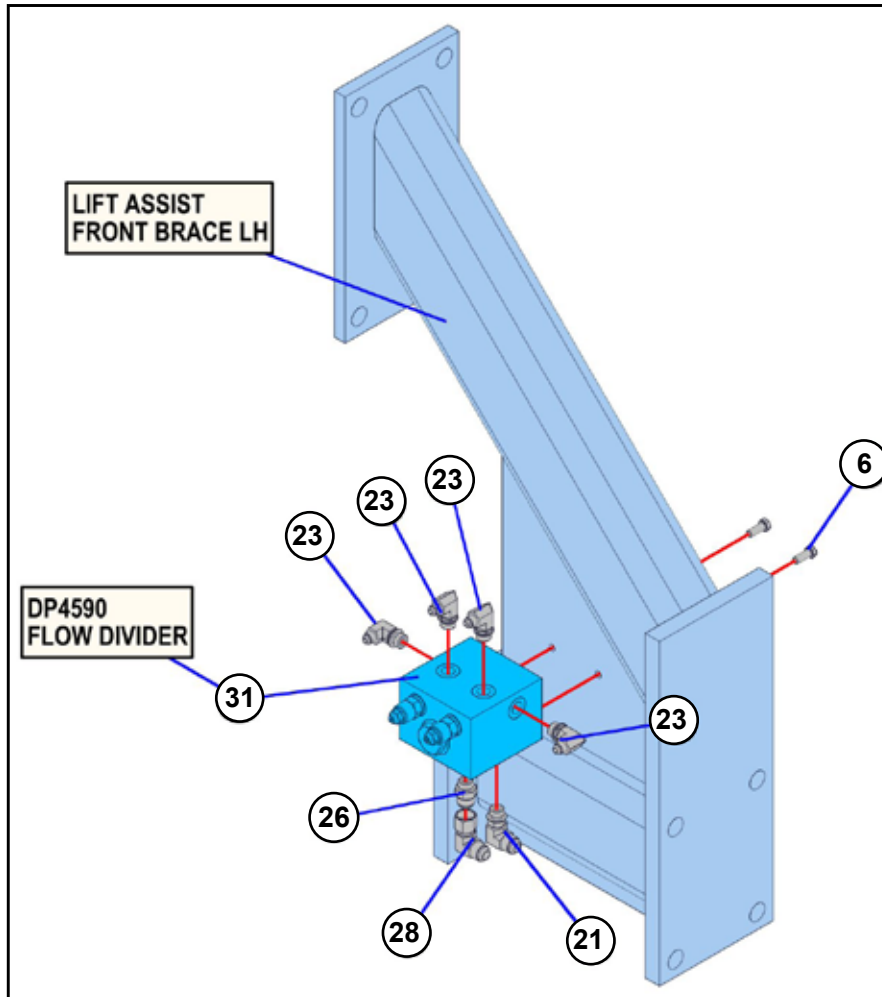


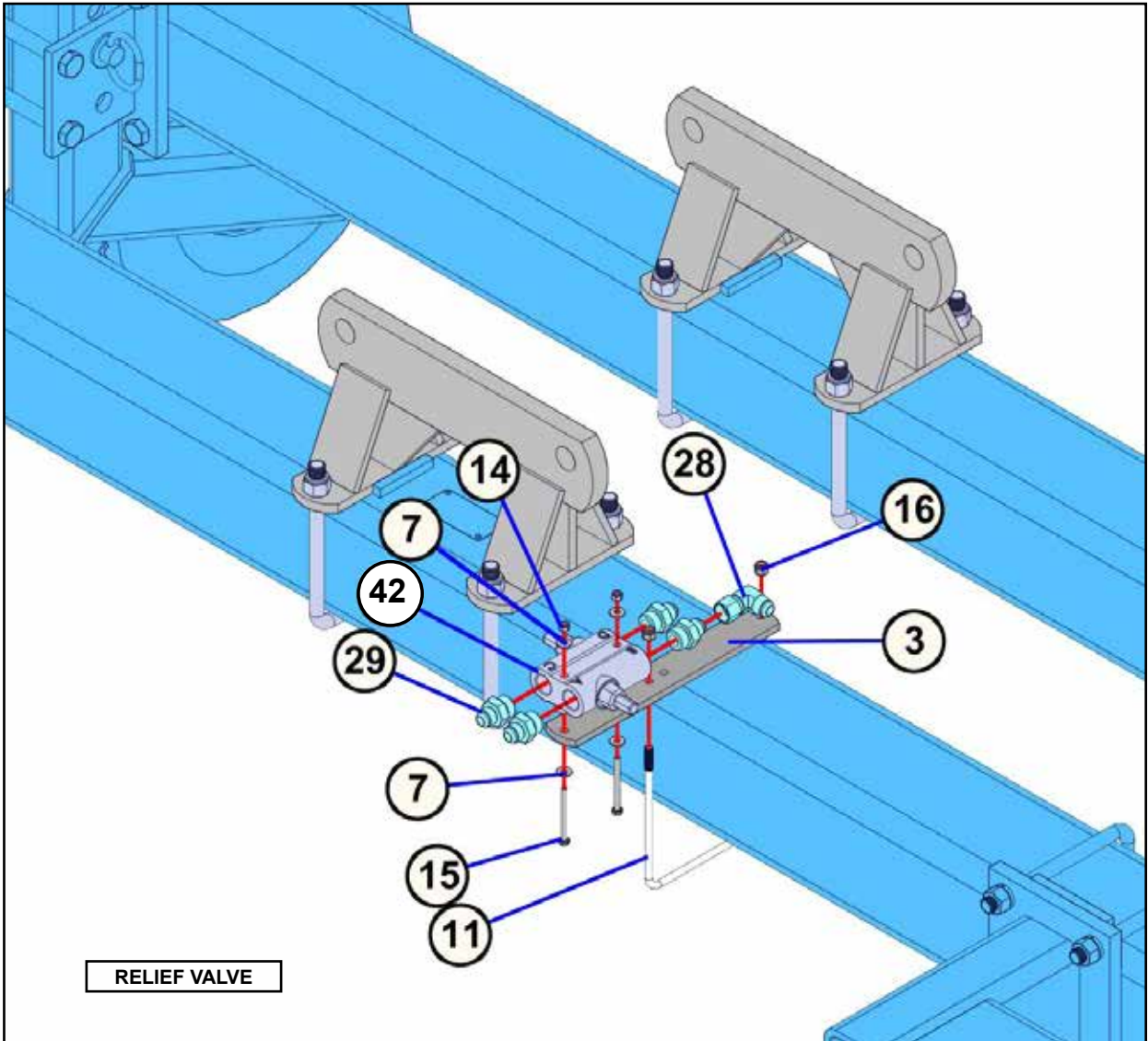
BOM ID	Qty	Item No	Description
A	2	AM4721	TRANSPORT LOCK, 1-3/4" & 2" CYLINDER ROD
B	2	AM4817	BRACKET, DEPTH COLLAR STORAGE
C	6	AP2282-1	HOSE RETAINER, 4" X 6", WITH PLASTIC CAPS
D	2	BM3520	CLIP PIN, TRANSPORT LOCK
E	2	BP3006	HEX CAP SCREW, 3/8"-16 X 1", GRADE 5, PLATED
F	2	BP3218	DEPTH COLLAR SET, 1-3/4" TO 2"
G	2	BP3335	U-BOLT, 3/8"-16 X 7"W X 8"L, PLATED
H	4	CP2660	NUT, HEX LOCK, 3/8"-16, NYLOCK
I	5	DP4143	ADAPTER, 10MJIC-8MSAE, 90 DEGREE
J	2	DP4383	COUPLER, PIONEER, 8MQBA-8FSAE
K	3	DP4392	ADAPTER, 8MSAE-10MJIC, STRAIGHT, 6400-10-8
L	1	DP4418	ELBOW, 90 DEGREE, 10MJIC-10FJX, 6500-10
M	4	DP4525	ADAPTER, 10MSAE-10MJIC, 90 DEGREE, 6801-10
N	2	DP4541	CYLINDER, HYDRAULIC, 4-1/2" X 8", SAE-34508
O	1	DP4590	FLOW DIVIDER WITH HOLDING VALVES
P	2	DP5011	HOSE, HYDRAULIC, 3/8" X 180" (15'0"), 10FJX-10FJX
Q	2	DP5035	HOSE, HYDRAULIC, 3/8" X 108" (9'0"), 10FJX-10FJX
R	2	DP5067	HOSE, HYDRAULIC, 3/8" X 174" (14'6"), 10FJX-10FJX

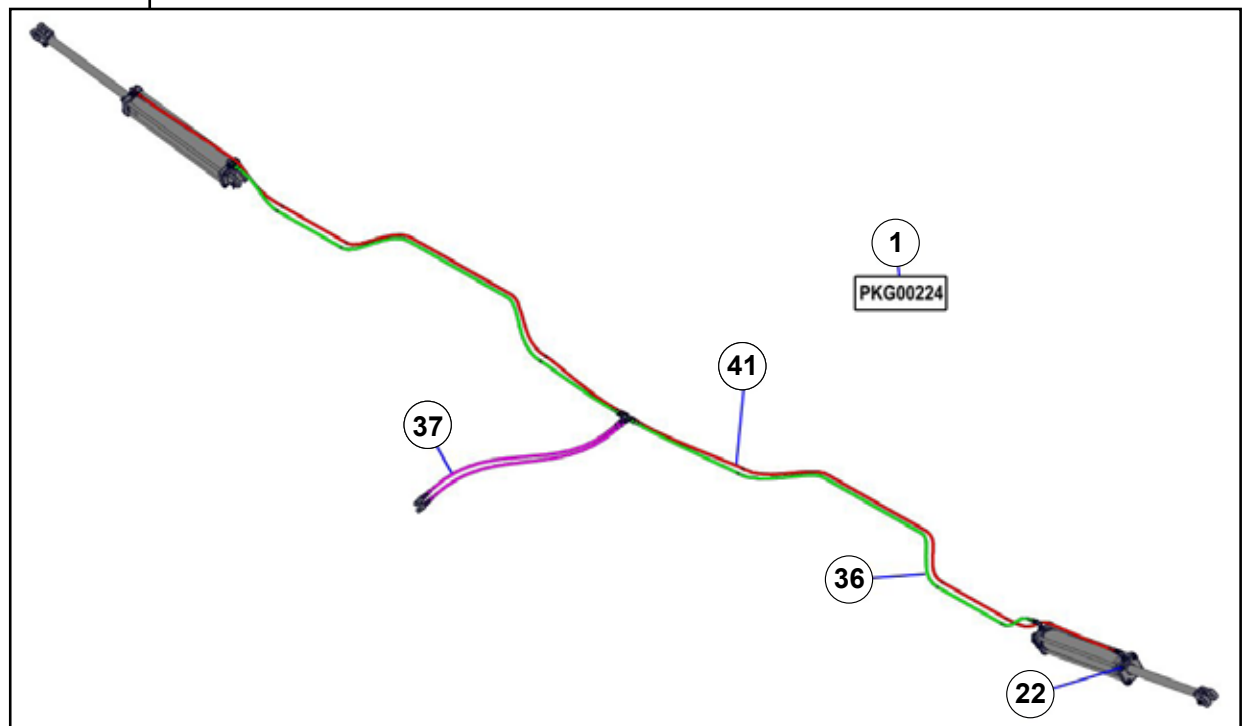
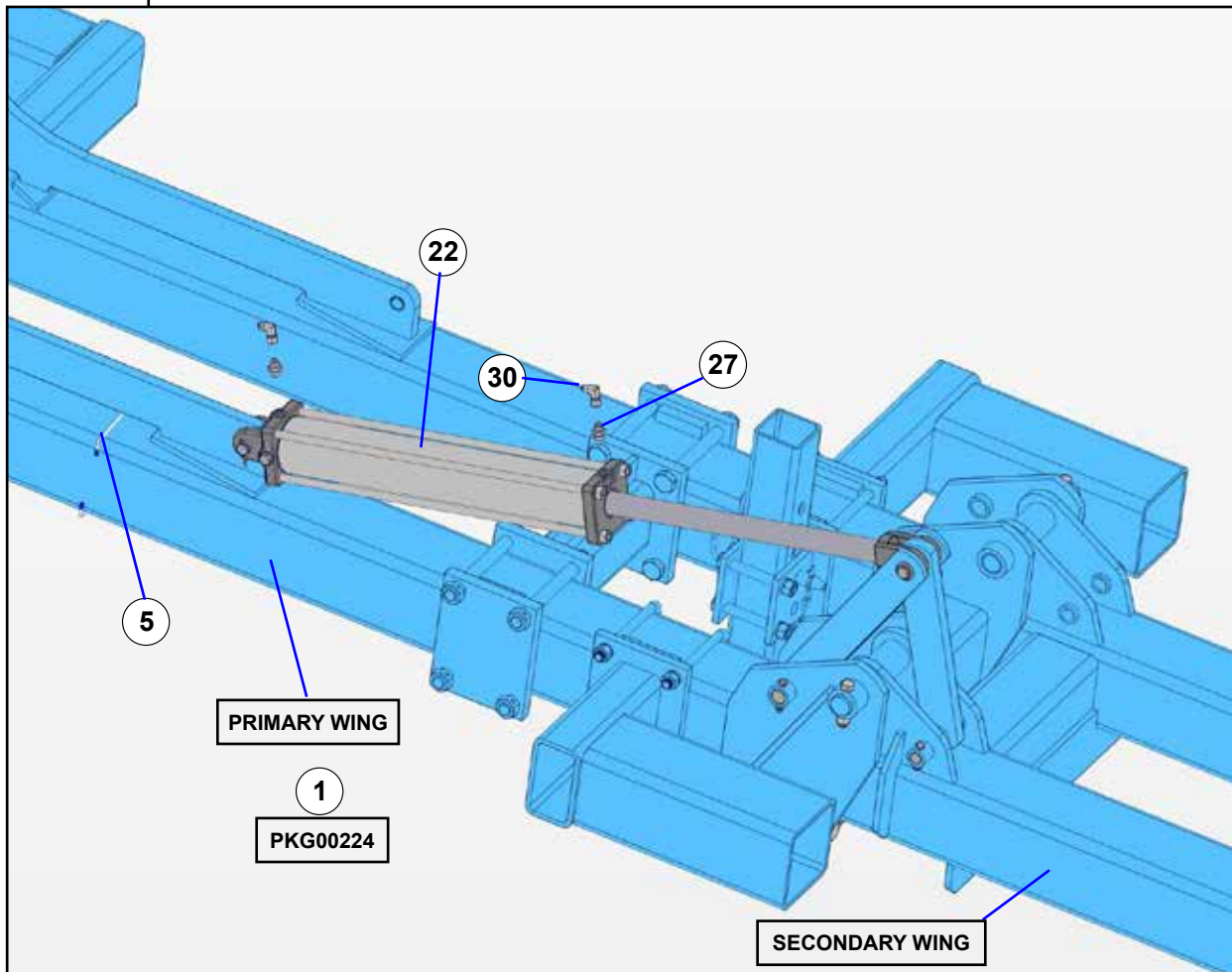


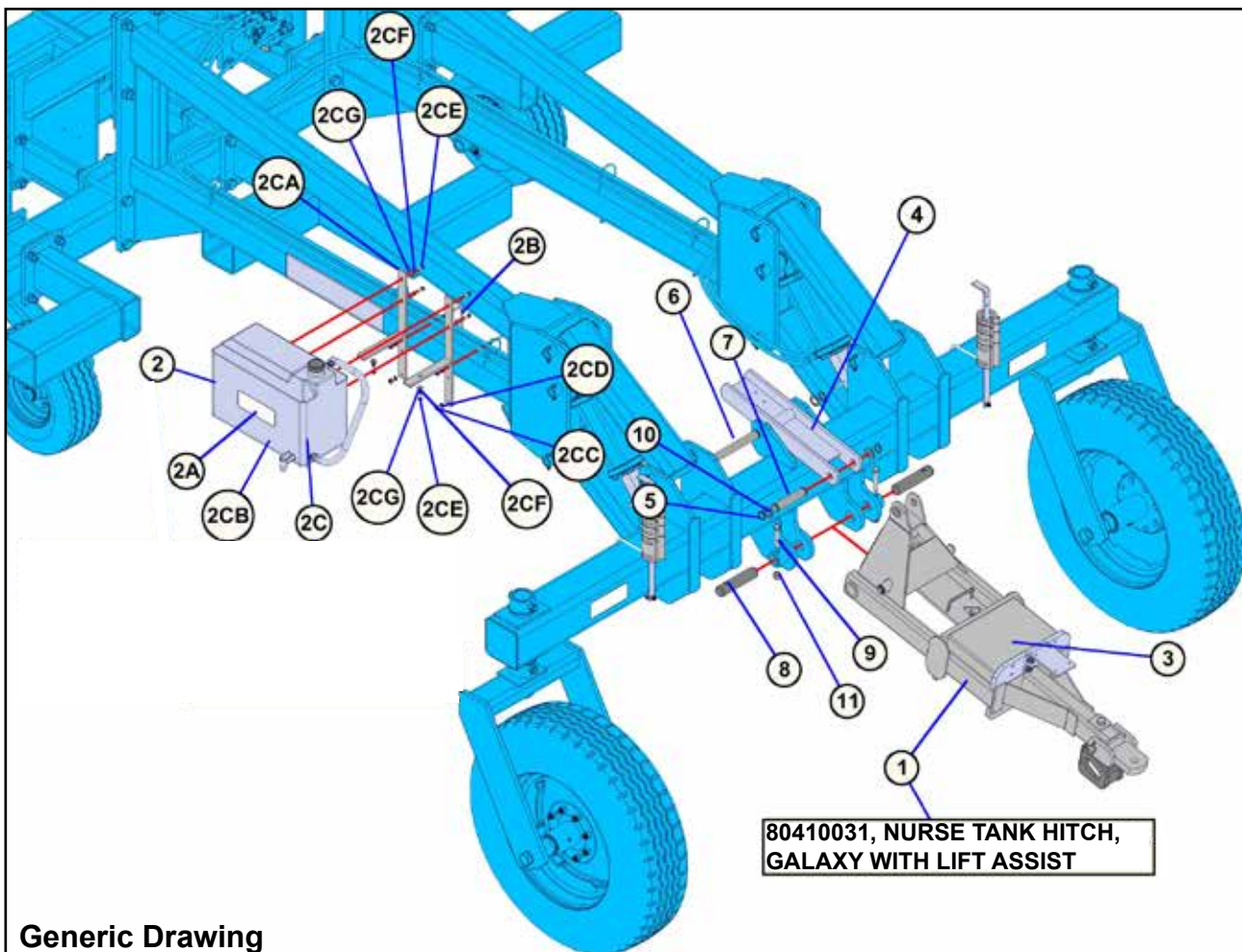
PKG00224, Galaxy Hydraulics

BOM ID	Qty	Item No	Description
1	1	PKG00224	PACKAGE, GALAXY HYDRAULICS, 16 ROW 30
2	1	AM4124	TRANSPORT VALVE MOUNT
3	1	AM5455	BRACKET, MOUNTING, DOUBLE RELIEF VALVE
4	2	AM5456	CYLINDER LUG, BOLT-ON, DOUBLE
5	6	AP2284-1	HOSE RETAINER, 7" X 7", WITH PLASTIC CAPS
6	2	BP3006	HEX CAP SCREW, 3/8"-16 X 1", GRADE 5, PLATED
7	4	BP3055	WASHER, FLAT, 1/4", PLATED
8	4	BP3058	U-BOLT, 3/4"-10 X 7"W X 9"L
9	2	BP3157	NUT, HEX, 5/16"-18, GRADE 2, PLATED
10	8	BP3296	NUT, HEX LOCK, 3/4"-10, NYLOCK
11	1	BP3335	U-BOLT, 3/8"-16 X 7"W X 8"L, PLATED
12	1	BP3359	U-BOLT, 3/8"-16 X 7"W X 5"L
13	4	BP3570	TENSION BUSHING, 1-1/2" X 1" X 1" OAL
14	2	BP3587	NUT, HEX, 1/4" NYLOCK
15	2	BP3588	HEX CAP SCREW, 1/4"-20 X 3", GRADE 8, PLATED
16	4	CP2660	NUT, HEX LOCK, 3/8"-16, NYLOCK
17	1	DP3993	HYDRAULIC CHECK VALVE, WITH MANUAL RELEASE
18	1	DP4002	HOSE, HYDRAULIC, 1/4" X 48" (4'0"), 6FJX-6FJX
19	2	DP4004	TEE, 6MJ-6MJ-6MJ
20	20	DP4086	CABLE TIE 11-3/8"
21	1	DP4143	ADAPTER, 10MJIC-8MSAE, 90 DEGREE
22	6	DP4248	CYLINDER, HYDRAULIC, 4 X 24, 3000 PSI, B400240ABACB07E
23	4	DP4301	ADAPTER, 6MJ-8MSAE, 90 DEGREE
24	4	DP4379	TEE, RUN, 6FJX-6MJ-6MJ, 6602-6
25	4	DP4383	COUPLER, PIONEER, 8MQBA-8FSAE
26	5	DP4392	ADAPTER, 8MSAE-10MJIC, STRAIGHT, 6400-10-8
27	14	DP4394	ADAPTER, 8MSAE-6MJIC, 6400-6-8
28	4	DP4418	ELBOW, 90 DEGREE, 10MJIC-10FJX, 6500-10
29	4	DP4421	ADAPTER, 12MSAE-10MJIC
30	12	DP4445	ELBOW, 90 DEGREE, 6MJIC-6FJX, 6500-6
31	1	DP4590	FLOW DIVIDER WITH HOLDING VALVES
32	1	DP5028	HOSE, HYDRAULIC, 3/8" X 36" (3'0"), 10FJX-10FJX
33	1	DP5029	HOSE, HYDRAULIC, 3/8" X 18" (1'6"), 10FJX-10FJX
34	1	DP5054	HOSE, HYDRAULIC, 1/4" X 20" (1'8"), 6FJX-6FJX
35	3	DP5055	HOSE, HYDRAULIC, 1/4" X 66" (5'6"), 6FJX-6FJX
36	2	DP5086	HOSE, HYDRAULIC, 1/4" X 132" (11'0"), 6FJX-6FJX
37	2	DP5104	HOSE, HYDRAULIC, 3/8" X 66" (5'6"), 10FJX-10FJX
38	4	DP5137	HOSE, HYDRAULIC, 1/4" X 25" (2'1"), 6FJX-6FJX
39	1	DP5140	HOSE, HYDRAULIC, 1/4" X 43" (3'7"), 6FJX-6FJX
40	1	DP5214	HOSE, HYDRAULIC, 3/8" X 46" (3'10"), 10FJX-10FJX
41	2	DP5285	HOSE, HYDRAULIC, 1/4" X 160" (13'4"), 6FJX-6FJX
42	1	DP6302	VALVE, DOUBLE RELIEF, PRINCE, H-L



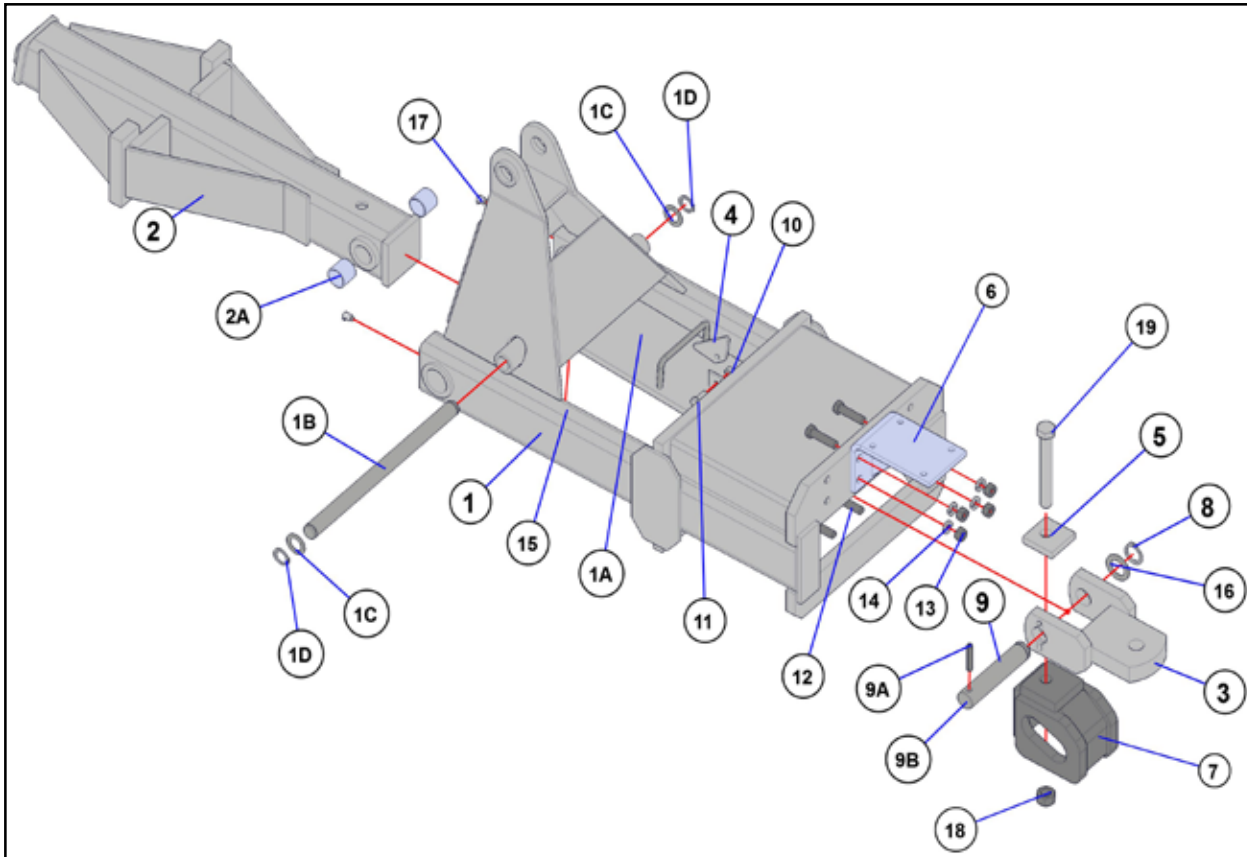






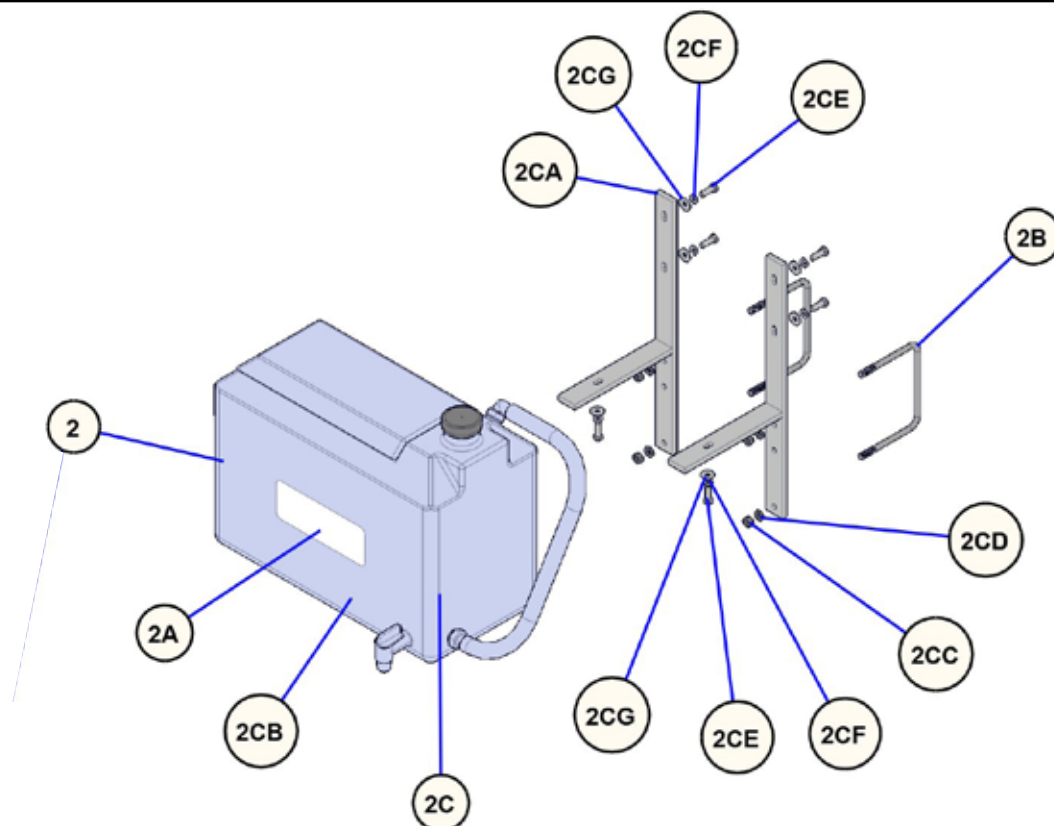
Generic Drawing

BOM ID	Qty	Item No	Description
1	1	80410031	ASSEMBLY, NURSE TANK HITCH, GALAXY WITH LIFT ASSIST
2	1	AAM2426	SAFETY TANK, TOOLBOX ASSEMBLY, 6" X 4"
2A	1	AP2215	DECAL, BLU-JET, 3" X 8"
2B	2	BP3045	U-BOLT, 3/8"-16 X 6"W X 5"L, PLATED
2C	1	PKG00040	PACKAGE, 9 GALLON SAFETY TANK
2CA	2	AM2136	BRACKET, TANK MOUNT, 9 GALLON
2CB	1	AP2137	SAFETY TANK, 9 GALLON
2CC	4	BP3001	NUT, HEX, 3/8"-16, GRADE 2, PLATED
2CD	4	BP3002	WASHER, LOCK, 3/8", PLATED
2CE	6	BP3108	HEX CAP SCREW, 5/16"-18 X 1", GRADE 5, PLATED
2CF	6	BP3158	WASHER, LOCK, 5/16", PLATED
2CG	6	BP3159	WASHER, FLAT, 5/16", PLATED
3	1	AAM2870	ASSEMBLY, NURSE TANK HITCH, AUTO-LOK
4	1	AM6235	LINKAGE, NURSE TANK HITCH, 13-1/2"
5	4	AP2711	SNAP RING, 1-1/4" EXTERNAL, HEAVY DUTY
6	1	BM3544	PIN, 1-1/4" X 9"
7	1	BM3547	PIN, 1-1/4" X 5-3/4"
8	2	BM3632	PIN, CATEGORY IV, UPPER LINK
9	2	BP3135	HEX CAP SCREW, 5/8"-11 X 3-1/2", GRADE 5, PLATED
10	4	BP3249	MACHINERY BUSHING, 1-7/8" OD X 1-1/4" ID, 14 GAUGE, PLATED
11	2	BP3375	NUT, HEX LOCK, 5/8"-11, NYLOCK

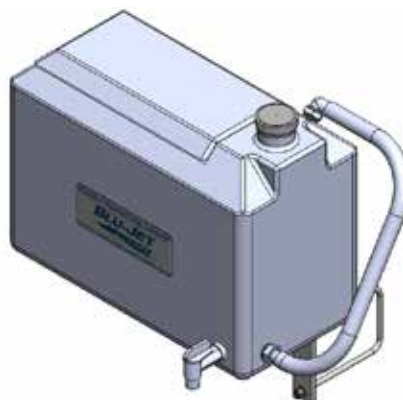


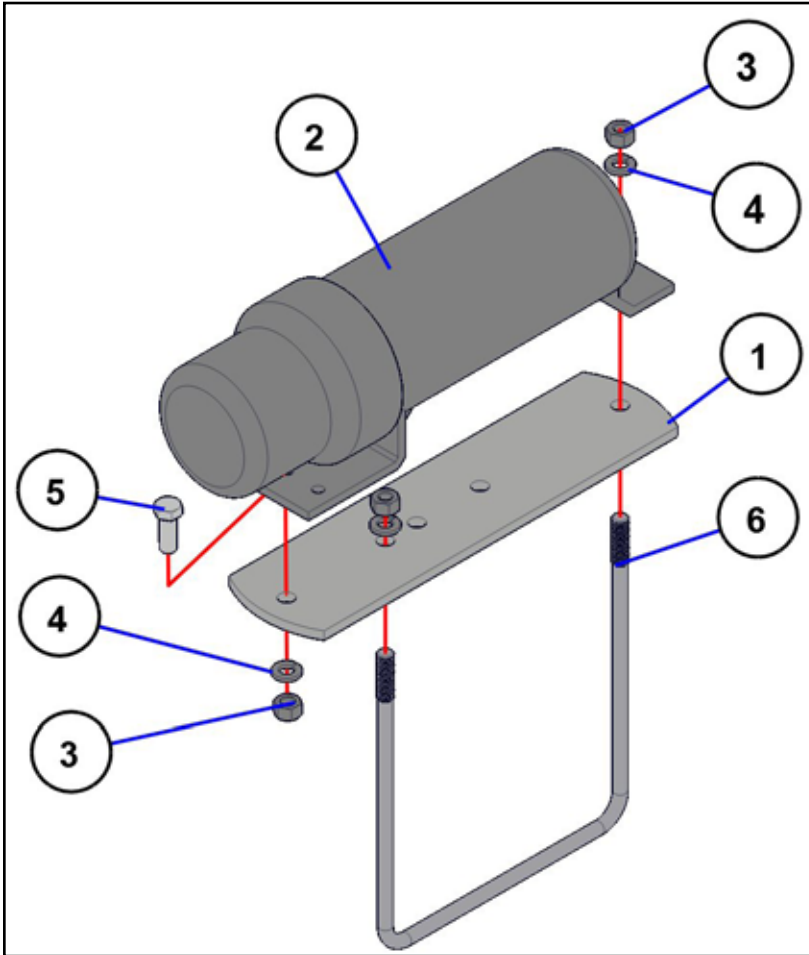
► AAM2870 HITCH ASSEMBLY, AUTO-LOK NURSE TANK

BOM ID	Qty	Item No	Description
1	1	AM4530	HITCH, NURSE TANK, MAIN FRAME
1A	1	AM4536	INSERT LATCH, NURSE TANK HITCH
1B	1	BM3551	PIN, 1" X 15-1/8"
1C	2	BP3215	MACHINERY BUSHING, 1-1/2" OD X 1" ID, 14 GAUGE, PLATED
1D	2	AP2407	SNAP RING, 1" EXTERNAL, HEAVY DUTY
2	1	AM4533	HITCH, SWING SLIDE INSERT, STANDARD
2A	2	AP2156	BUSHING, 1-13/32" OD X 1-1/4" ID X 1-1/4" OAL
3	1	AM4534	FLIPPER HITCH, STANDARD, NURSE TANK HITCH
4	1	AM4539	SAFETY LATCH
5	1	AM4540	BACKING PLATE, SAFETY CHAIN LOOP
6	1	AM6193	SUPERSHOOTER MOUNTING, NURSE TANK HITCH, LOW PROFILE
7	1	AM6230	BRACKET, SAFETY CHAIN ATTACHMENT
8	1	AP2711	SNAP RING, 1-1/4" EXTERNAL, HEAVY DUTY
9	1	BM3549	PIN, 1-1/4" X 5-5/16", GROOVED, ANTI-ROTATION PIN
9A	1	BP3162	PIN, ROLL, 3/8" X 2", PLATED
9B	1	EM5408	PIN, 1-1/4" X 5-5/16"
10	1	BP3003	NUT, HEX LOCK, 3/8"-16, GRADE 2, PLATED
11	1	BP3006	HEX CAP SCREW, 3/8"-16 X 1", GRADE 5, PLATED
12	4	BP3041	HEX CAP SCREW, 1/2"-13 X 2", GRADE 5, PLATED
13	4	BP3042	NUT, HEX, 1/2"-13, GRADE 2, PLATED
14	4	BP3043	WASHER, LOCK, 1/2", PLATED
15	1	BP3072	GREASE ZERK, 1/4"-28
16	1	BP3192	MACHINERY BUSHING, 1-7/8" OD X 1-1/4" ID X 10 GAUGE, PLATED
17	2	BP3257	GREASE ZERK, 1/4"-28, 65 DEGREE
18	1	BP3442	NUT, HEX LOCK, 3/4"-10, TOP LOCK, GRADE C, PLATED
19	1	BP3449	HEX CAP SCREW, 3/4"-10 X 6", GRADE 8, PLATED



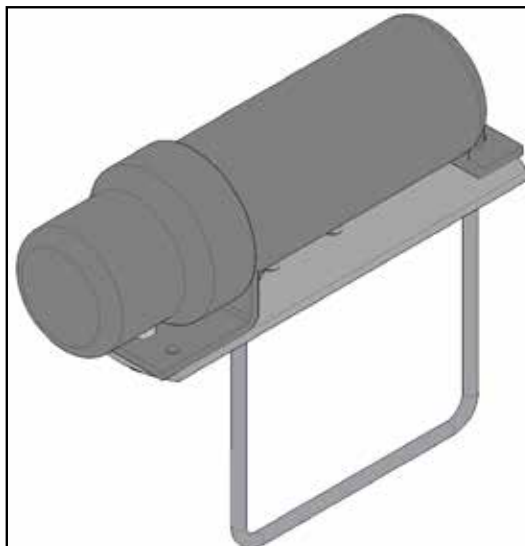
BOM ID	Qty	Item No	Description
2	1	AAM2426	SAFETY TANK, TOOLBOX ASSEMBLY, 6" X 4" MOUNTS
2A	1	AP2215	DECAL, BLU-JET, 3" X 8"
2B	2	BP3045	U-BOLT, 3/8"-16 X 6"W X 5"L, PLATED
2C	1	PKG00040	PACKAGE, 9 GALLON SAFETY TANK
2CA	2	AM2136	BRACKET, TANK MOUNT
2CB	1	AP2137	SAFETY TANK, 9 GALLON
2CC	4	BP3001	NUT, HEX, 3/8"-16, GRADE 2, PLATED
2CD	4	BP3002	WASHER, LOCK, 3/8", PLATED
2CE	6	BP3108	HEX CAP SCREW, 5/16"-18 X 1", GRADE 5, PLATED
2CF	6	BP3158	WASHER, LOCK, 5/16", PLATED
2CG	6	BP3159	WASHER, FLAT, 5/16", PLATED

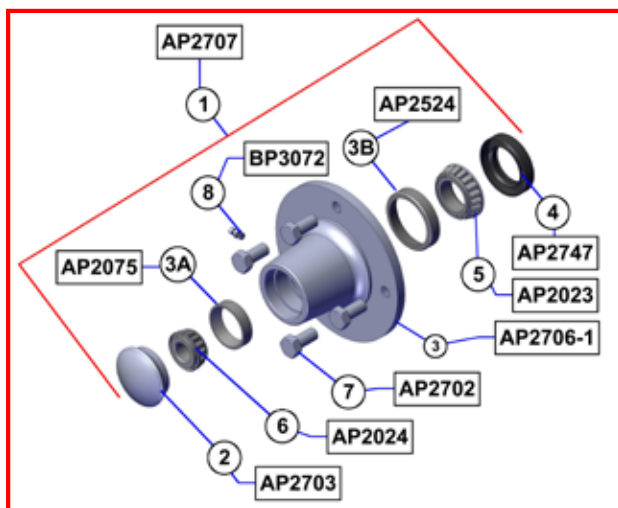




► AAM2641 MANUAL HOLDER, 7" X 7" MOUNTING HARDWARE

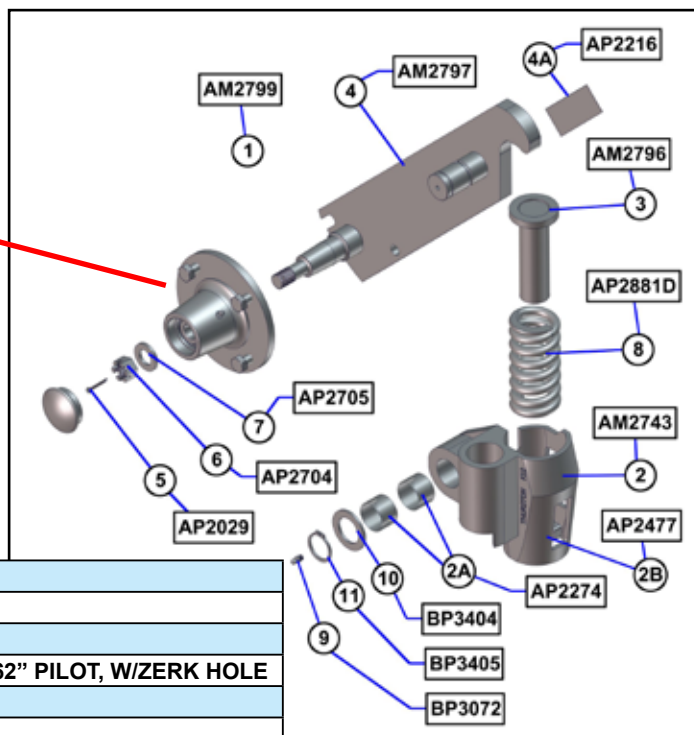
BOM ID	Qty	Item No	Description
1	1	AM7640	BRACKET, MOUNTING, MANUAL HOLDER
2	1	AP4254	MANUAL HOLDER, BLACK
3	3	BP3001	NUT, HEX, 3/8"-16, GRADE 2, PLATED
4	3	BP3002	WASHER, LOCK, 3/8", PLATED
5	1	BP3006	HEX CAP SCREW, 3/8"-16 X 1", GRADE 5, PLATED
6	1	BP3335	U-BOLT, 3/8"-16 X 7"W X 8"L, PLATED





AP2707, HUB ASSEMBLY, 4 BOLT

BOM ID	Qty	Item No	Description
1	1	AP2707	HUB ASSEMBLY, 4 BOLT
2	1	AP2703	HUB CAP, 1610
3	1	AP2706-1	HUB W/ CUPS, 4 BOLT, 5" BC, 3.62" PILOT, W/ZERK HOLE
3A	1	AP2075	BEARING CUP, LM 11910
3B	1	AP2524	BEARING CUP, LM 67010
4	1	AP2747	GREASE SEAL, 15235TB
5	1	AP2023	BEARING CONE, LM 67048
6	1	AP2024	BEARING CONE, LM 11949
7	4	AP2702	HEX CAP SCREW, 1/2"-20 X 1", GRADE 5, PLATED
8	1	BP3072	GREASE ZERK, 1/4"-28

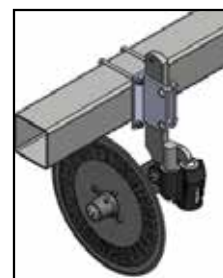
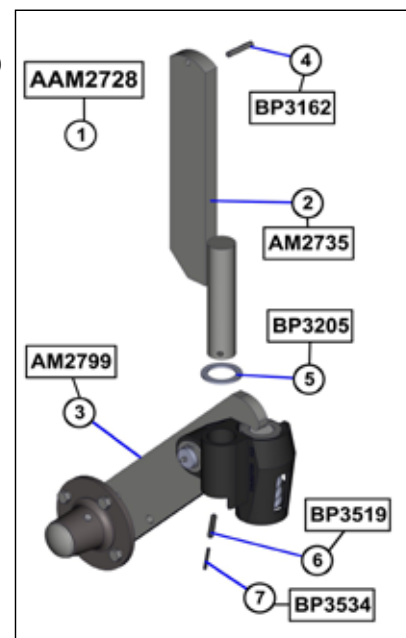


AM2799, ASSEMBLY, COULTER ARM WITH HUB & KNEE CASTING, HD

BOM ID	Qty	Item No	Description
1	1	AM2799	ASSEMBLY, COULTER ARM WITH HUB & KNEE CASTING, HD
2	1	AM2743	CASTING, COULTER KNEE, HD, MACHINED WITH BUSHINGS
2A	2	AP2274	BUSHING, 1-17/32" OD X 1-3/8" ID" X 1" OAL
2B	1	AP2477-1	CASTING, COULTER KNEE, MACHINED
3	1	AM2796	SPRING CAP & GUIDE, HD COULTER
4	1	AM2797	COULTER ARM, HD
4A	1	AP2216	DECAL, BLU-JET, SMALL, 1-1/2" X 4"
5	1	AP2029	PIN, COTTER, 5/32" X 1-1/2"
6	1	AP2704	NUT, SPINDLE, 3/4"-16
7	1	AP2705	WASHER, SPINDLE, 1-1/2" X 13/16" X .134"
8	1	AP2881D	SPRING, 2.472" OD X 5.875" OAL, .468 WIRE DIAMETER
9	1	BP3072	GREASE ZERK, 1/4"-28
10	1	BP3404	MACHINERY BUSHING, 2-1/8" OD X 1-3/8" ID X 10 GAUGE, PLATED
11	1	BP3405	SNAP RING, 1-3/8" EXTERNAL, 5160-137

AAM2728 COULTER, SUPER 1200, 16, 1 ROW

BOM ID	Qty	Item No	Description
1	1	AAM2728	COULTER, SUPER 1200, 16, 1R
2	1	AM2735	COULTER SHANK, 16"
3	1	AM2799	ASSEMBLY, COULTER ARM W/ HUB & KNEE CASTING, HD
4	1	BP3162	PIN, ROLL, 3/8" X 2", PLATED
5	1	BP3205	MACHINERY BUSHING, 2-1/2" OD X 1-3/4" ID, 10GA, PLATED
6	1	BP3519	PIN, ROLL, 3/8" X 2-1/2", PLAIN
7	1	BP3534	PIN, ROLL, 7/32" X 2-1/2", PLAIN

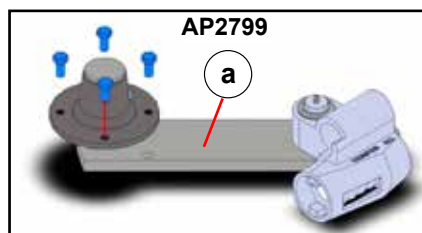


Coulter Assembly

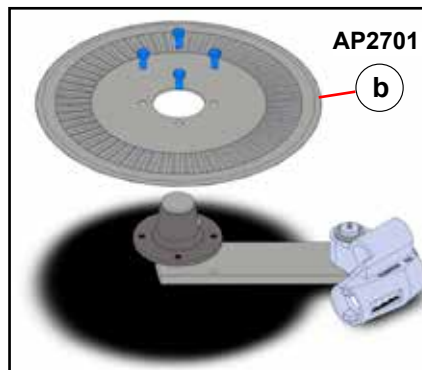


Preparing coulters for mounting

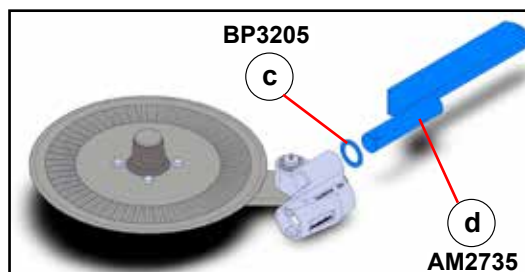
1. Remove hex cap screws from hub (a) (AM2799) coulters arm with hub and knee casting assembly.



2. Place (b) (AP2701) 20" fluted coulters blade on coulters assembly and replace hex cap screws.

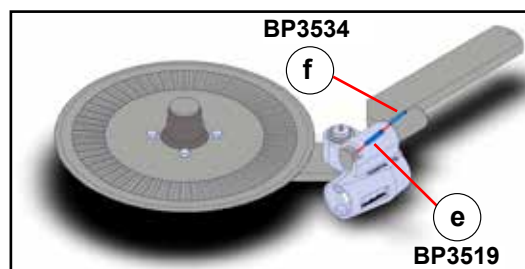


3. Install (c) (BP3205) 2-1/2" OD x 1-3/4" ID machinery bushing over (d) (AM2735) 16" coulters shank weldment.

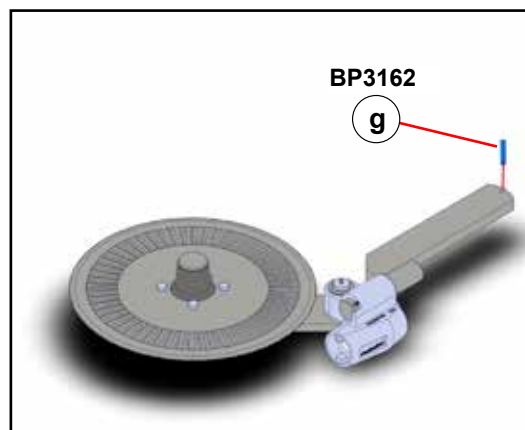


4. Insert the 16" coulters shank into coulters assembly. Start (e) (BP3519) 3/8" x 2-1/2" roll pin in base of coulters shank.

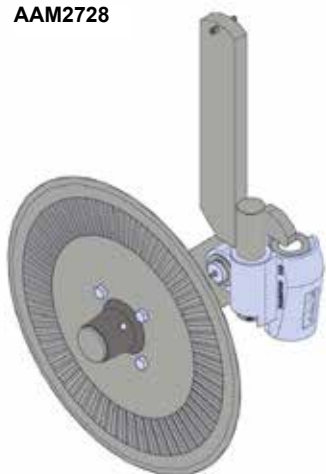
Insert the (f) (BP3534) 7/32" x 2-1/2" roll pin in the end of the 3/8" roll pin and drive both pins together. Leave an equal amount of pin on both sides of the shank.



5. Install the (g) (BP3162) 3/8" x 2" roll pin through the shank weldment top hole.

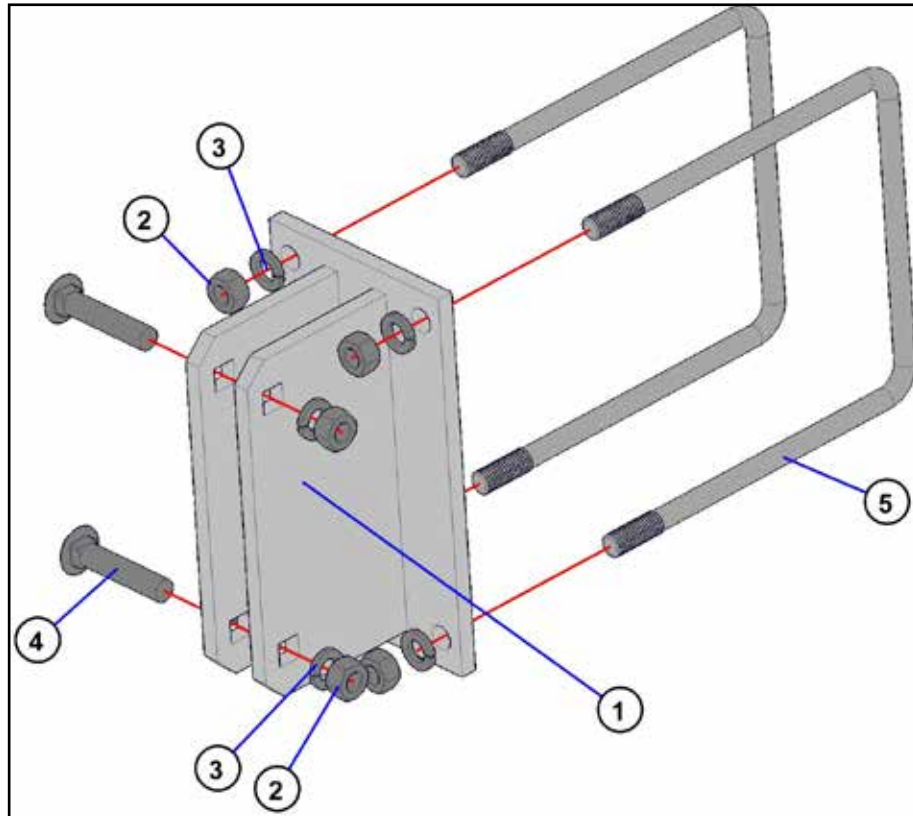


AAM2728



AAM2728

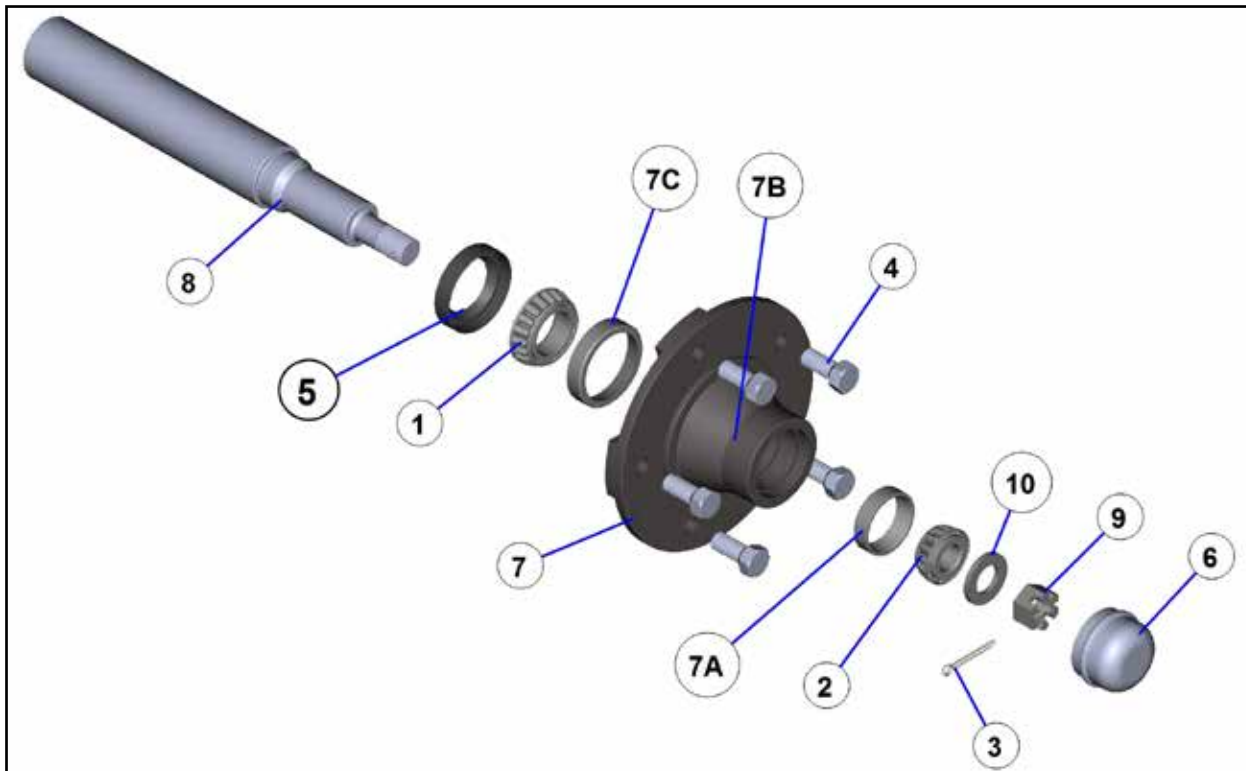
Super 1200 coulters 1 row



► AAM2821, COULTER FLATBACK CENTERED ASSEMBLY, 7" X 7"

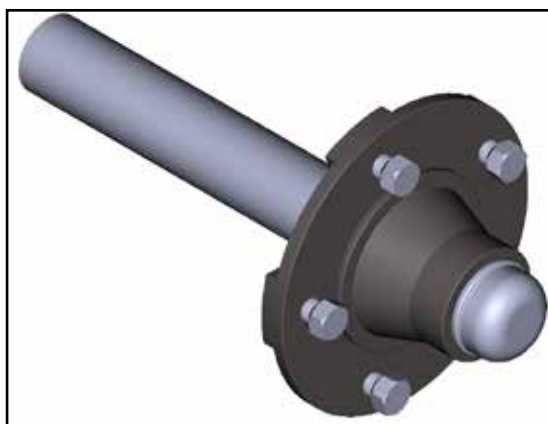
BOM ID	Qty	Item No	Description
1	1	AM4425	BRACKET, FLATBACK, 7" X 7", CENTERED
2	6	BP3042	NUT, HEX, 1/2"-13, GRADE 2, PLATED
3	6	BP3043	WASHER, LOCK, 1/2", PLATED
4	2	BP3229	BOLT, CARRIAGE, 1/2"-13 X 2-1/2", GRADE 5, PLATED
5	2	BP3356	U-BOLT, 1/2"-13 X 7"W X 8-1/4"L, GLOSS BLACK

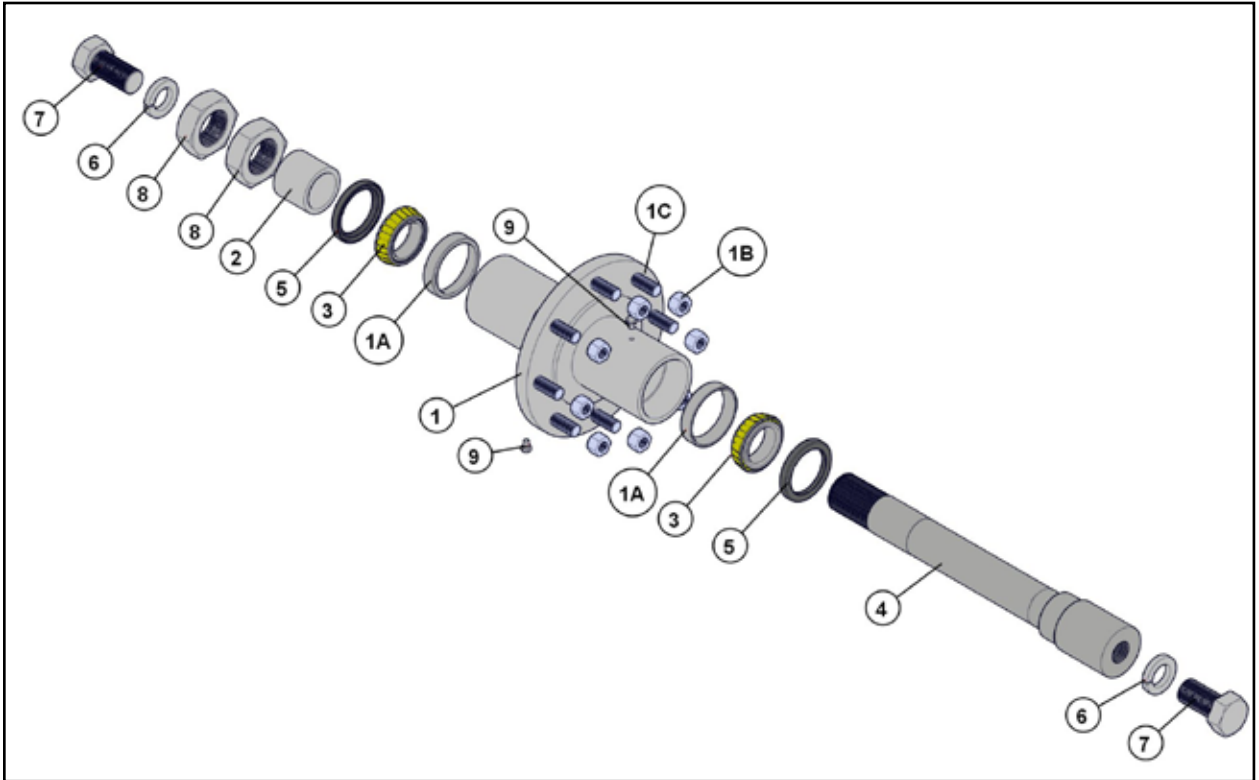
AAM2707 Assembly, 511 Hub, 1.75" X 13" Spindle



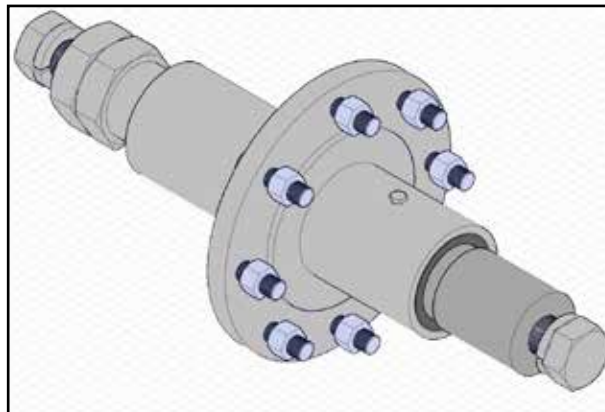
► AAM2707 ASSEMBLY, 511 HUB, 1.75" X 13" SPINDLE

BOM ID	Qty	Item No	Description
1	1	AP2023	BEARING CONE, LM 67048
2	1	AP2024	BEARING CONE, LM 11949
3	1	AP2029	PIN, COTTER, 5/32" X 1-1/2"
4	5	AP2049	WHEEL BOLT, 1/2"-20 X 1"
5	1	AP2052	GREASE SEAL, CR 14974
6	1	AP2053	HUB CAP, 1524
7	1	AP2124	HUB WITH CUPS, 5 BOLT, 511300-5
7A	1	AP2075	BEARING CUP, LM 11910
7B	1	HUB	HUB, 5 BOLT, 5.5" BOLT CIRCLE, 4" PILOT
7C	1	AP2524	BEARING CUP, LM 67010
8	1	AP2169	SPINDLE, 1-3/4" X 13", S7151-H-00
9	1	AP2704	NUT, SPINDLE, 3/4"-16
10	1	AP2705	WASHER, SPINDLE, 1-1/2" X 13/16" X .134"





BOM ID	Qty	Item No	Description
1	1	AM4837	ASSEMBLY, WHEEL HUB
1A	2	AP2089	BEARING CUP, LM 104911
1B	8	AP2810	WHEEL NUT, 5/8"-18
1C	8	AP2814	BOLT, WHEEL STUD, 5/8"-18 X 2-1/4"
2	1	AM4838	SPINDLE HUB SPACER, STRADDLE HUB
3	2	AP2090	BEARING CONE, LM 104949
4	1	AP2651	SPINDLE
5	2	AP2816	GREASE SEAL, 2.500" X 3.256" X 0.500", C/R 24898
6	2	BP3252	WASHER, LOCK, 1-1/4", PLATED
7	2	BP3253	HEX BOLT, 1-1/4"-12 X 2-1/2", GRADE 8, PLATED
8	2	BP3254	NUT, HEX JAM, 2"-12, PLATED
9	2	BP3552	HEX CAP SCREW, 1/4"-28 X 3/8", GRADE 5, PLATED



Assembly (Main Frame and Level Wing Stops)

► Positioning main frame on stands

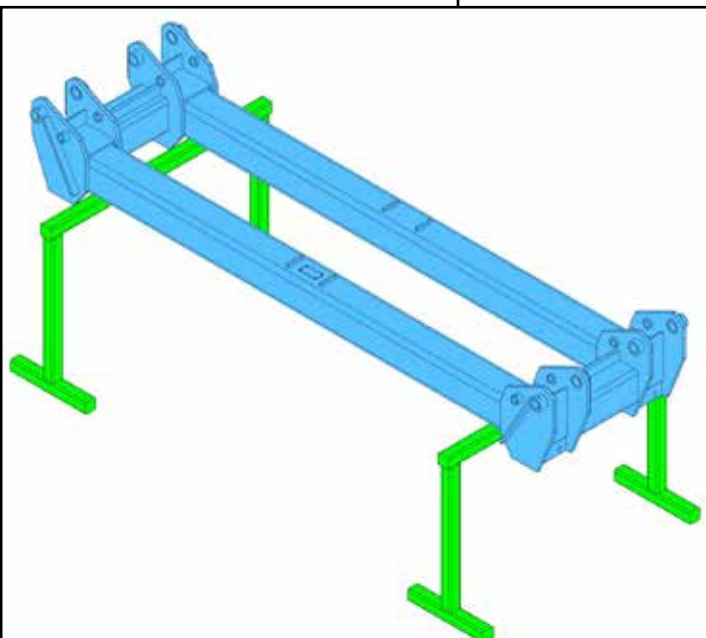
NOTE:

Left-hand and right-hand as viewed from the rear.



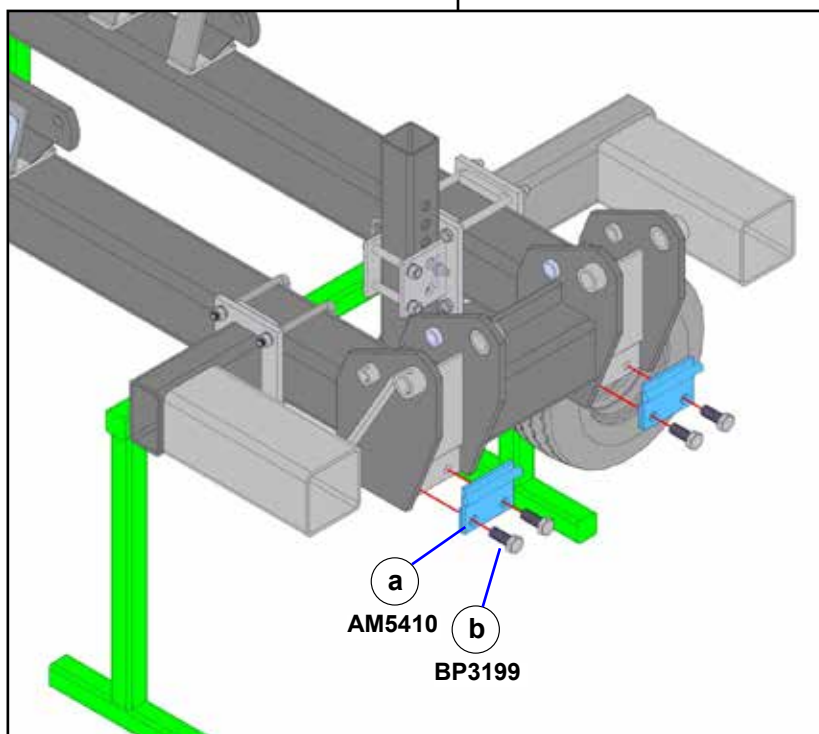
DANGER

Secure frame to stands



1. Position Galaxy main frame on sturdy stands, about 35" high on hard level surface. Clamp frame to stand to stabilize.

► Installing level wing stops



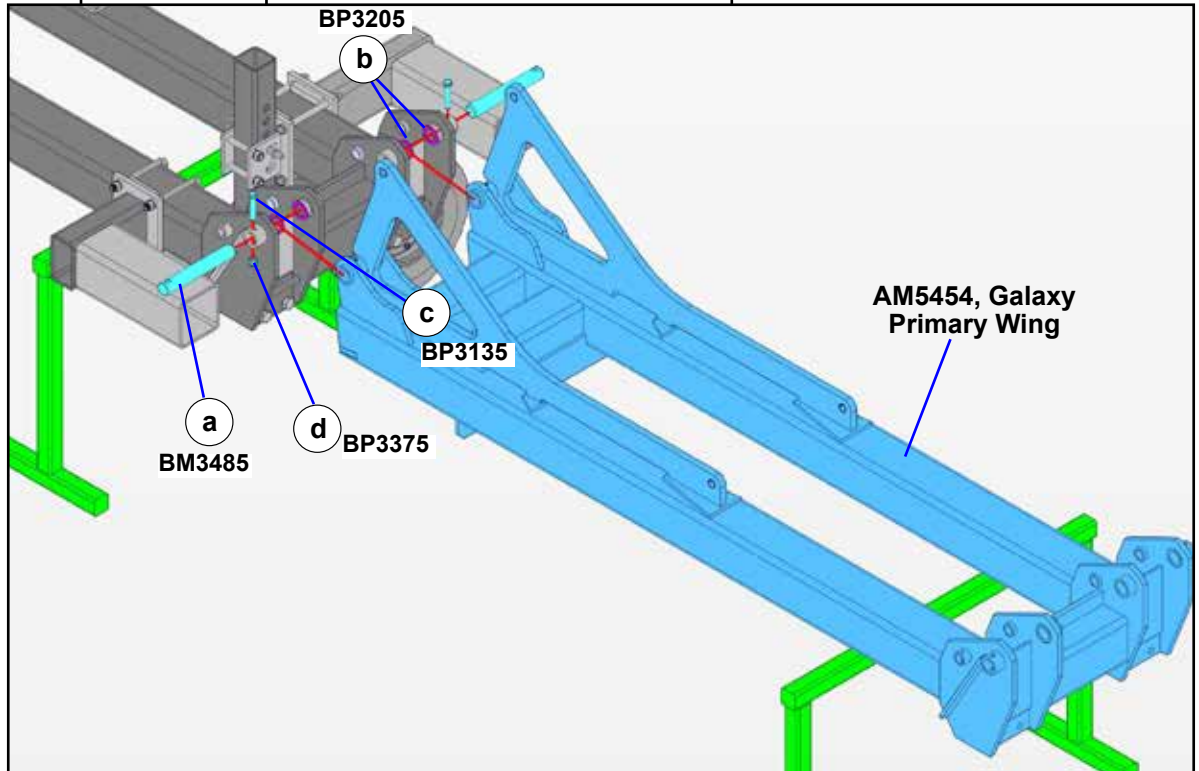
2. Install (a) (AM5410) level wing stops with (b) (BP3199) 1" x 2-1/2", grade 5, hex cap screws.

Assembly (Primary Wing Mounting)



Attaching folding wing

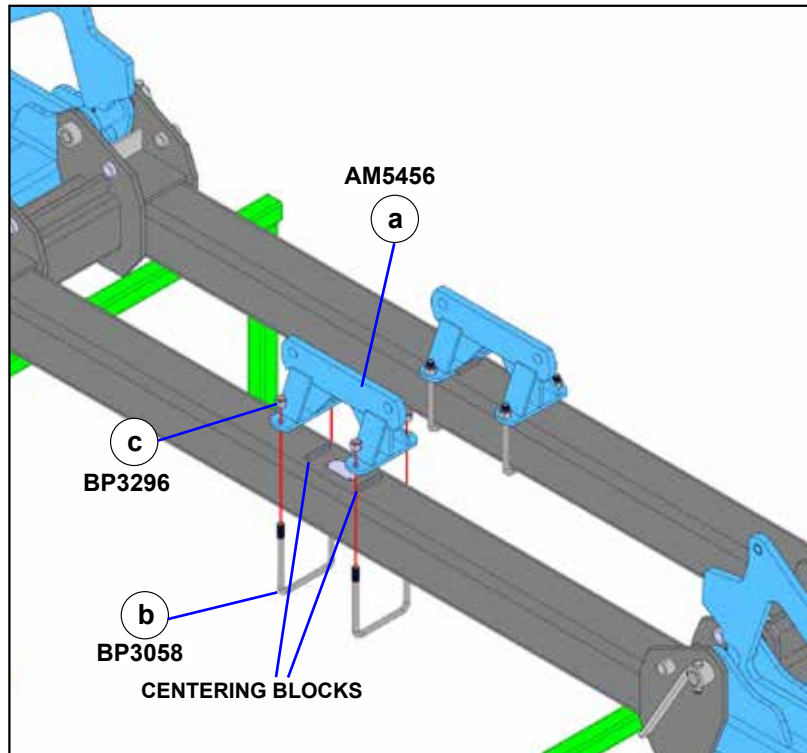
1. Raise folding wing into position with a forklift.



2. Insert wing weldments into main frame hinge weldments.
3. Secure wing with (a) (BM3485) 1-3/4" x 12-1/8" pin. Place (b) (BP3205) 2-1/2" OD X 1-3/4" ID machinery bushings on each side of wing hinge as pin is inserted.
4. Secure pin with (c) (BP3135) 5/8" x 3-1/2", grade 5, hex cap screws and (d) (BP3375), 5/8" hex lock nuts.

Assembly (Primary Wing Cylinders)

Installation cylinder lugs

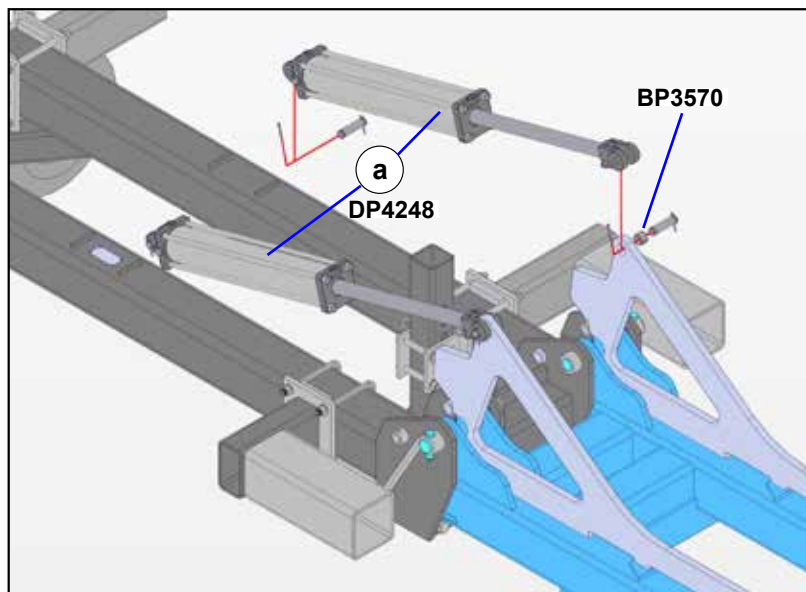


1. Place (a) (AM5456) bolt-on cylinder lug, on rear frame using the centering blocks. Secure with (b) (BP3058) u-bolt, 3/4"-10 X 7"W X 9"L, and (c) (BP3296) hex lock nut 3/4"-10, Nylock. Repeat on front frame.

Installation of wing cylinders

NOTE:
Install
BP3570,
tension
bushing
in to wing
weldment if
not factory
installed

2. Install (a) (DP4248) 4 X 24 hydraulic cylinders to center lugs and primary wing lugs using pins and cotter pins provided with cylinders.

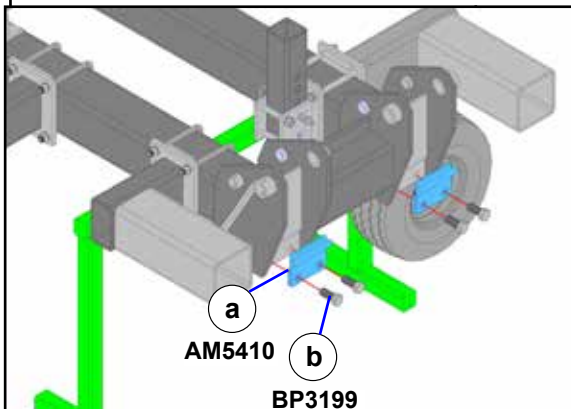


Assembly (Secondary Wing Mounting)

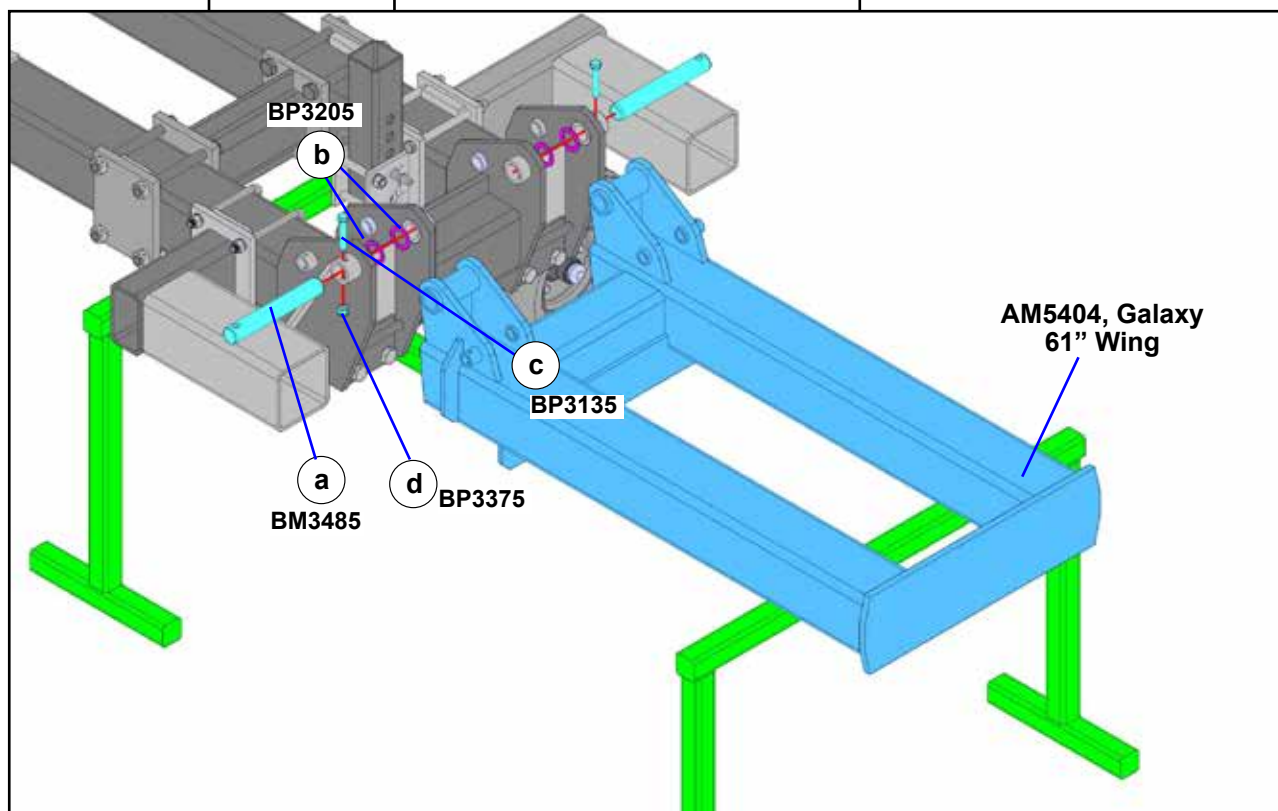


Attaching secondary wing

Install (a) (AM5410) level wing stops with (b) (BP3199) 1" x 2-1/2", grade 5, hex cap screws on primary wing.

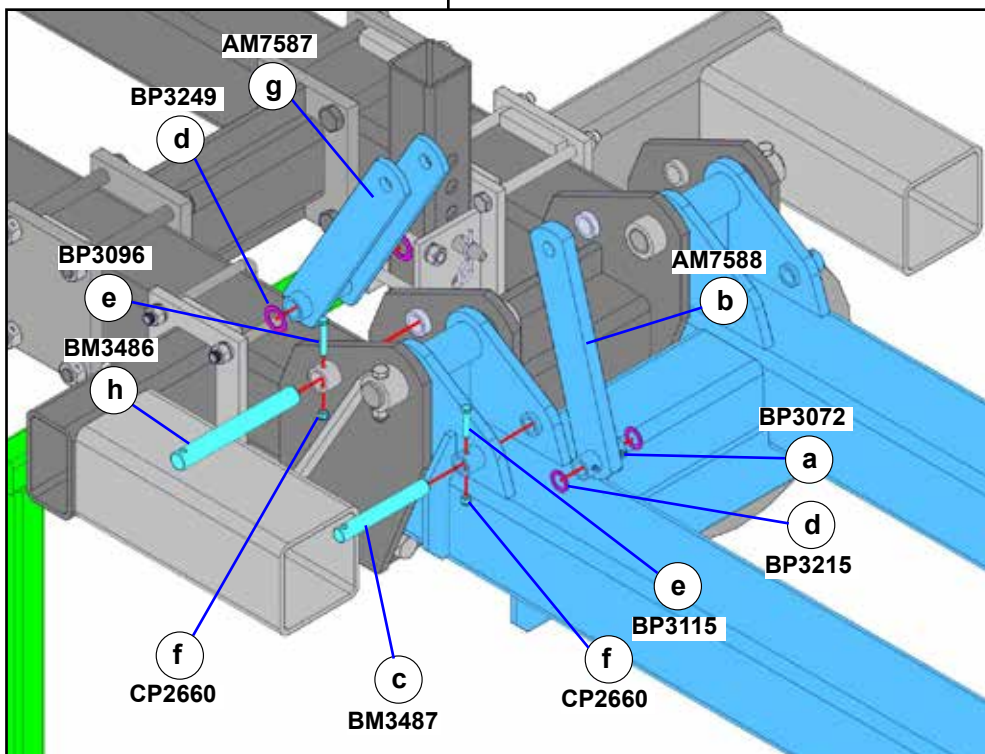


1. Raise secondary wing into position with a forklift.
2. Insert secondary wing into main wing hinge weldments.
3. Secure wing with (a) (BM3485) 1-3/4" x 12-1/8" pin. Place (b) (BP3205) 2-1/2" OD X 1-3/4" ID machinery bushings on each side of wing hinge as pin is inserted.
4. Secure pin with (c) (BP3135) 5/8" x 3-1/2", grade 5, hex cap screws and (d) (BP3375), 5/8" hex lock nuts.



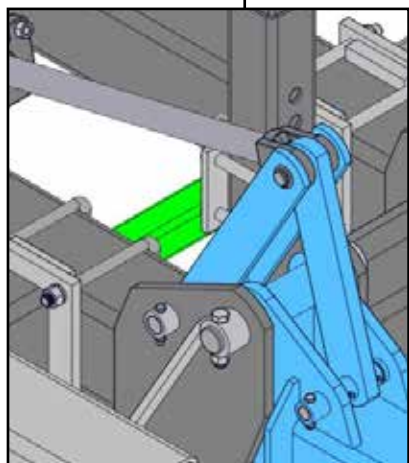
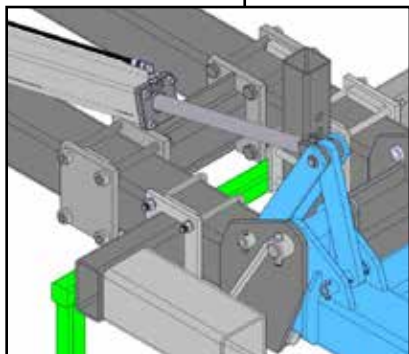
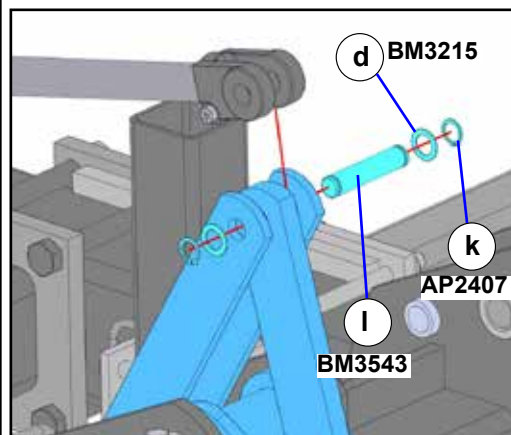
Assembly (Secondary Wing Linkages)

Installation of wing linkages



1. Install (a) (BP3072) grease zerks in each wing linkage.
2. Insert (b) (AM7588) 14-7/8" single wing fold linkage into wing weldment. Insert (c) (BM3487) 1" x 7-3/4" pin. Place (d) (BP3215) 1-1/2" OD x 1" ID machinery bushing on each side of linkage as pin is inserted. Align pin hole with hinge weldment and insert (e) (BP3115) 3/8" x 2" hex cap screw. Secure with (f) (CP2660) 3/8" hex lock nut.
3. Insert (g) (AM7587) 14-7/8" double wing fold linkage into main wing hinge weldment. Insert (h) (BM3486) 1-1/4" x 10-7/16" pin. Place (d) (BP3249) 1-7/8" OD x 1-1/4" ID, 14 Ga. machinery bushings on each side of linkage as pin is inserted. Align pin hole with main frame weldment and insert (e) (BP3096) 3/8" x 2-1/2" hex cap screw. Secure with (f) (CP2660) 3/8" hex lock nut.
4. Place (d) (BP3215) 1-1/2" OD x 1" ID, 14 Ga. machinery bushing and (k) (AP2407) 1" external heavy duty snap ring on (l) (BM3543) 1" x 4-5/16" double grooved pin. Insert into link ages at this time. Place (d) (BP3215) 1-1/2" OD x 1" ID, 14 Ga. machinery bushing and (k) (AP2407) 1" external heavy duty snap ring on (l) (BM3543) 1" x 4-5/16" double groove pin.

Remove pin to install cylinders, then replace.

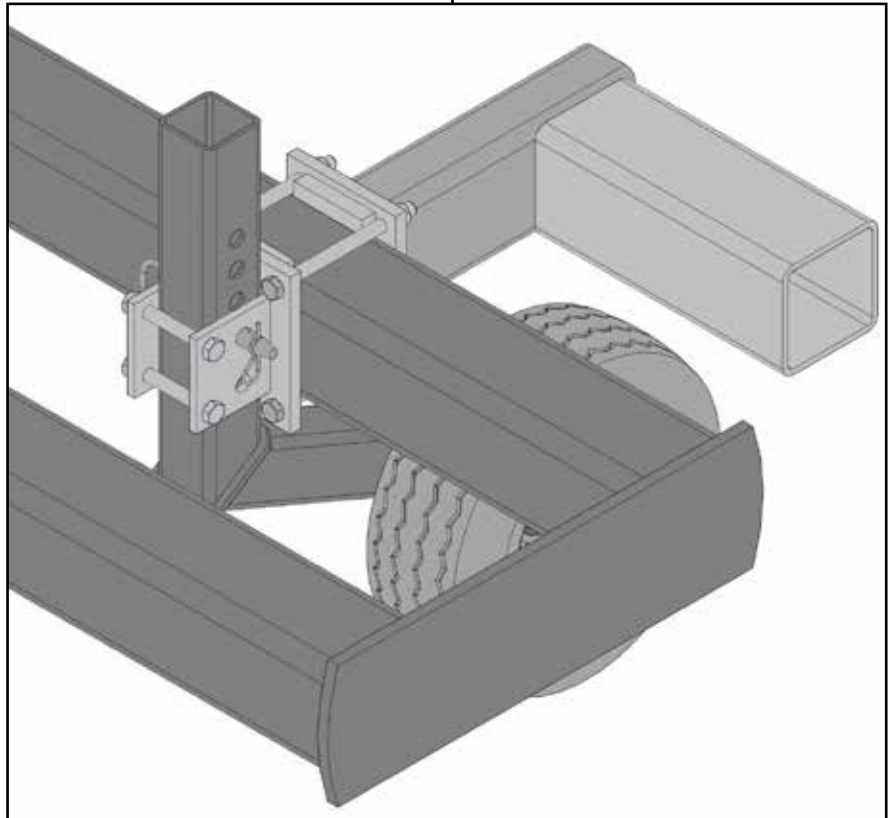


Assembly (Vertical Pin Adjust Gauge Wheels, Angled)

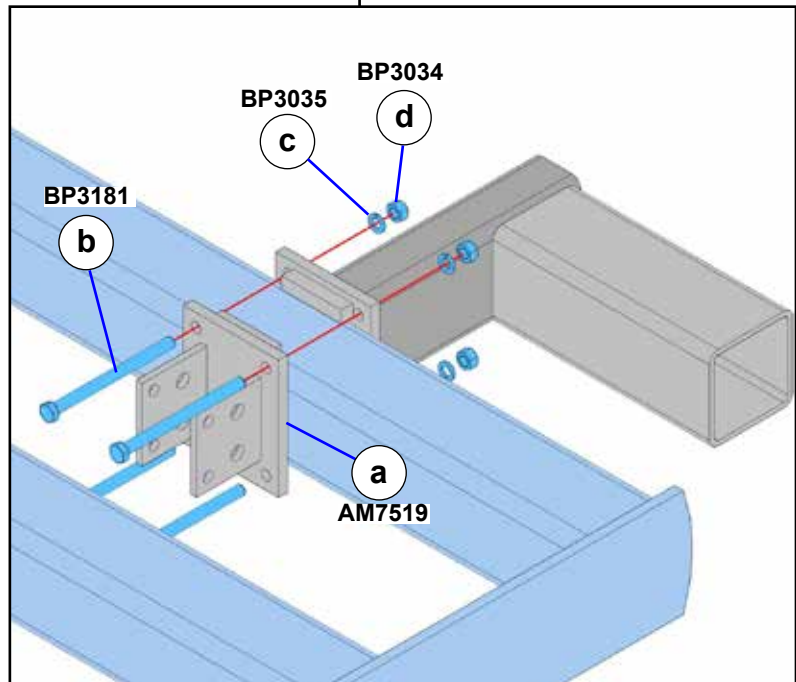
► Vertical pin adjust gauge wheel angled

► **NOTE:**
Consult row spacing pages for gauge wheel placement

► Tire pressure
(AAM 2781)
20.5 x 8.0-10,
10 x 6
(32 psi. Max.)



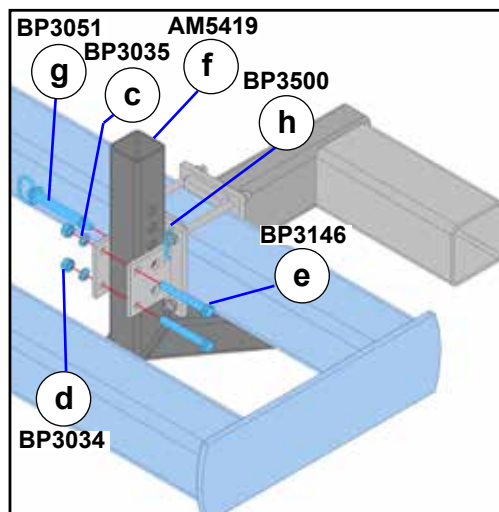
1. Consult row spacing pages for placement of gauge wheels. Attach (a) (AM7519) gauge wheel bracket on frame with (b) (BP3181) 3/4" x 10" hex cap screws included with AAM2175 19" x 18" offset stagger bracket. Secure with four (c) (BP3035) 3/4" lock washers and four (d) (BP3034) 3/4" hex nuts.



Assembly (Vertical Pin Adjust Gauge Wheels, Angled)

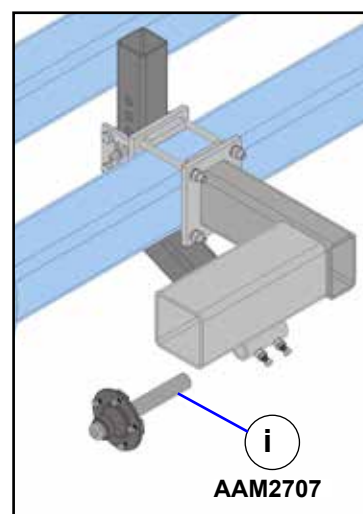
Vertical pin
adjust
gauge
wheel
angled

2. Install (e) (BP3146) two 3/4" x 6" hex cap screws through mounting bracket with two (c) (BP3035) 3/4" lock washers and two (d) (BP3034) 3/4" hex nuts. Do not tighten.
3. Insert (f) (AM5419) gauge wheel leg, angled into mounting bracket.
4. Install (g) (BP3051) 1" x 6" hitch pin and (h) (BP3500) 3/16" hair pin clip.



NOTE:
Consult
row spacing
pages for
hub and
spindle
location

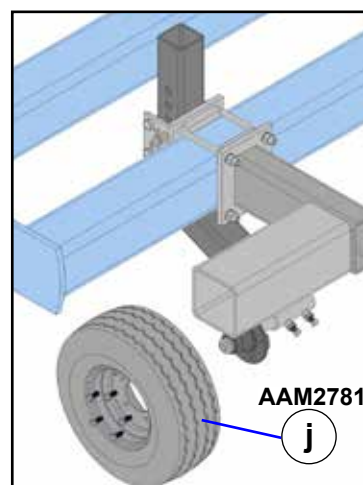
5. Loosen jam nuts and bolts and insert (i) (AAM2707) 1-3/4" x 13" hub and spindle into wheel leg arm. Spindle should be flush with the end of the tube. Tighten jam bolts.



6. Remove wheel bolts and install (j) (AAM2781) 20.5 x 8.0, 10 x 6 wheel.

7. After final depth adjustment is decided, tighten 3/4" hex nuts on mounting bracket.

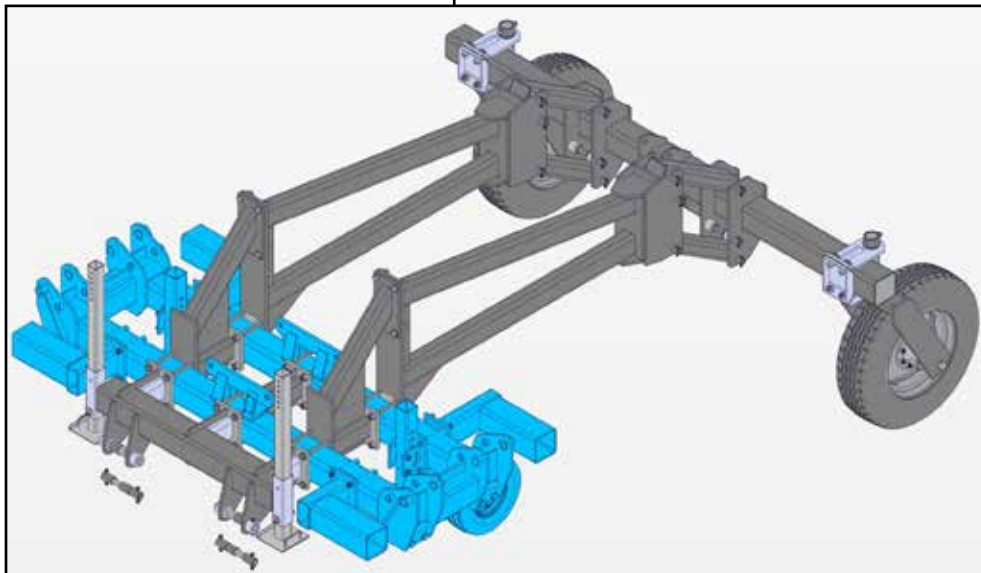
Repeat procedure for primary and secondary wings.



Assembly (3-Point With Lift Assist)

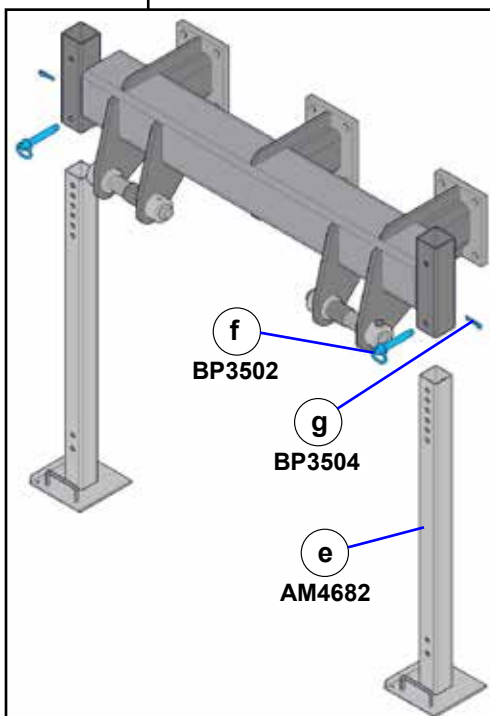
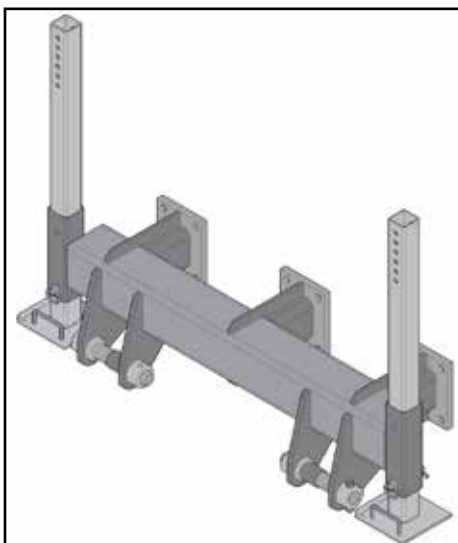
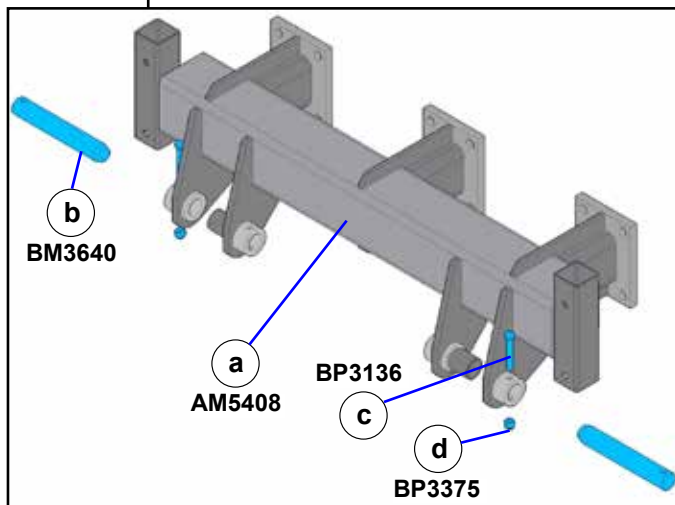
► Mounting
3-Point
with lift
assist

► Installing
pull pins
and park
stands to
bolt-on
semi-
mounted
hitch



CAT IV
Pull Pins
Shown
or
CAT III
Pull Pins

1. Install (b) (BM3640) 2" x 12-5/8" pins in two point arms of (a) (AM5408) bolt-on semi-mounted hitch.
2. Secure with (c) (BP3136) 5/8" x 4" hex cap screws and (d) (BP3375) 5/8" hex lock nut, Nylock.
3. Insert forklift teeth into two point weldment. Raise (a) and insert (e) (AM4682) park stands.
4. Raise park stands and insert (f) (BP3502) 3/4" x 4-1/2" hitch pins in one of the two bottom holes in stand. Secure with (g) (BP3504) 1/8" hair clip pin.

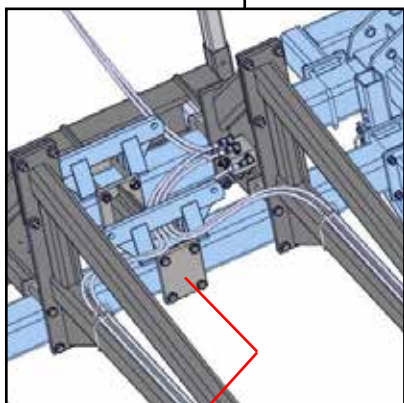


Assembly (3-Point With Lift Assist)

Mounting 3-Point with lift assist

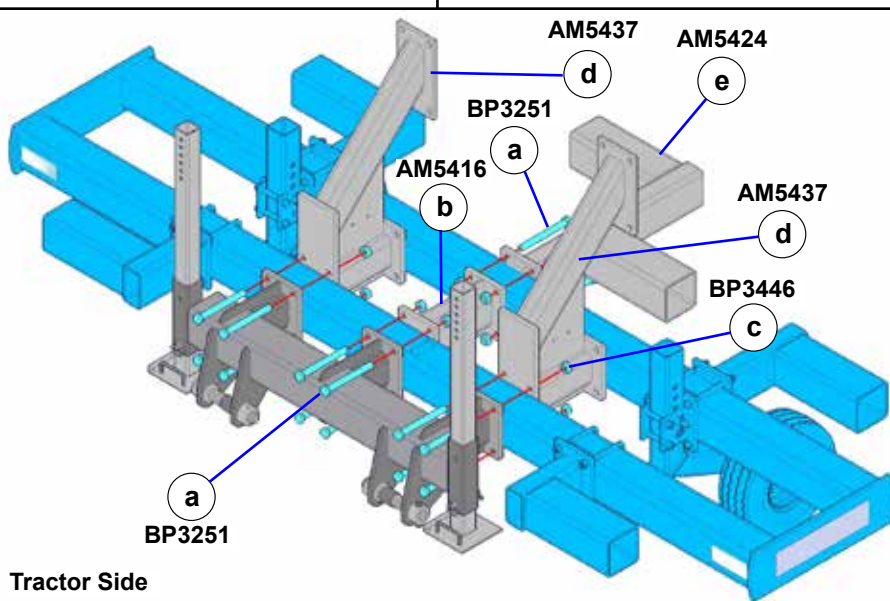
Part of Bundle:
80410258
(e) (AM5424)
double offset, 19 x
18/ 38 x 18, 7 x 7,
mounting bracket

Installing front lift assist braces and double offset

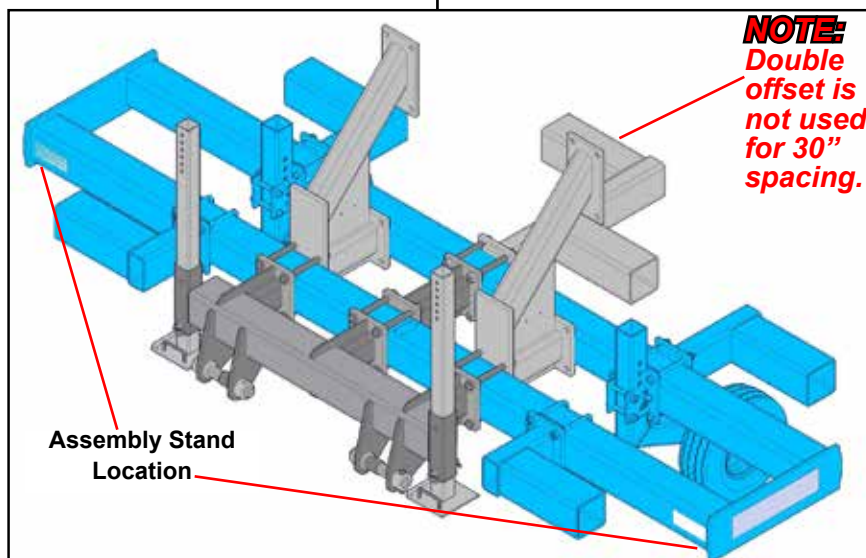


AM5420 anti-rotation backing plate is required when offset is not used.

NOTE:
Consult row spacing pages for lift assist assembly



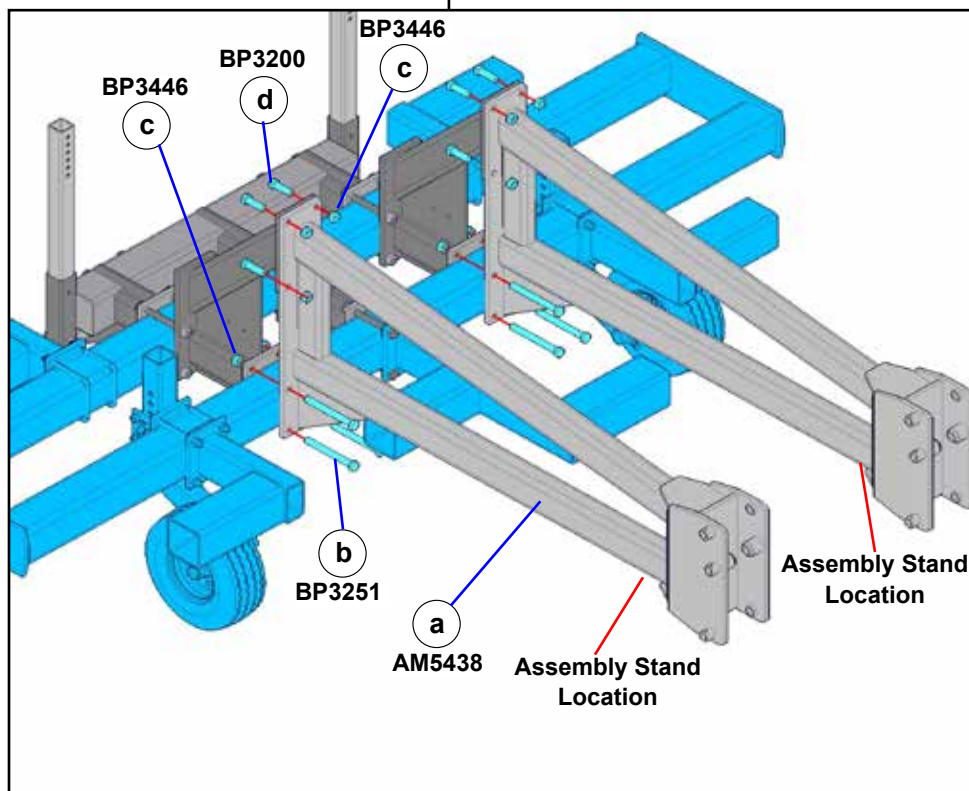
1. Raise and center bolt-on 3-point assembly on main frame. Insert (a) (BP3251) 1" x 10", grade 5, hex cap screws, partially.
2. Position and align (b) (AM5416) bolt-on frame support brace and continue inserting the center hex cap screws. Start (c) (BP3446) 1" reversible hex lock nuts on each hex cap screw.
3. Position and align (d) (AM5437) front lift assist braces in main frame center.
4. Insert (a) (BP3251) 1" x 10", grade 5, hex cap screws. Start (c) (BP3446) 1" reversible hex lock nuts on each hex cap screw.
5. Position (e) (AM5424) double offset, 19 x 18/38 x 18, 7 x 7, mounting bracket on rear frame, center. **For 30" spacing use AM5420 backing plate in place of (e).**
6. Insert (a) (BP3251) 1" x 10", grade 5, hex cap screws. Start (c) (BP3446) 1" reversible hex lock nuts on each hex cap screw.
7. Adjust assembly and tighten all hex nuts.



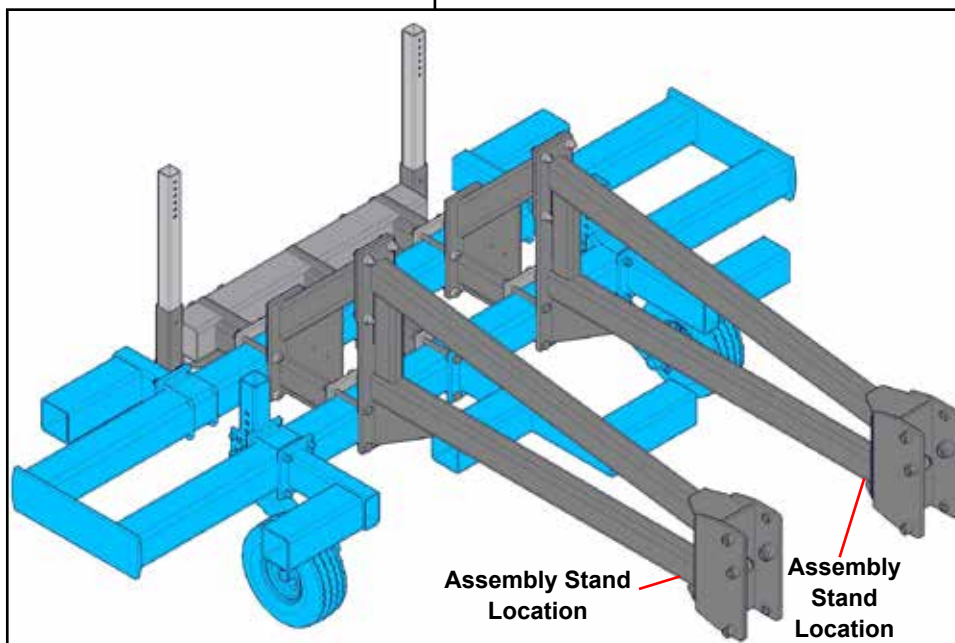
NOTE:
Double offset is not used for 30" spacing.

Assembly (3-Point With Lift Assist)

- ▶ **Mounting 3-Point with lift assist**
- ▶ **Attaching lift assist frames**



1. Position (a) (AM5438) lift assist frames on front lift assist braces.
2. Insert (d) (BP3200) 1" x 3-1/2" grade 5, hex cap screws, in top holes of front lift assist frame. Secure each hex cap screw with (c) (BP3446) 1" reversible hex lock nuts.
3. Insert (b) (BP3251) 1" x 10", grade 5, hex hex cap screws in bottom holes of lift assist frames. Secure each hex cap screw with (c) (BP3446) 1" reversible hex lock nuts.
4. Place supports under lift assist frames. (45" support required.)

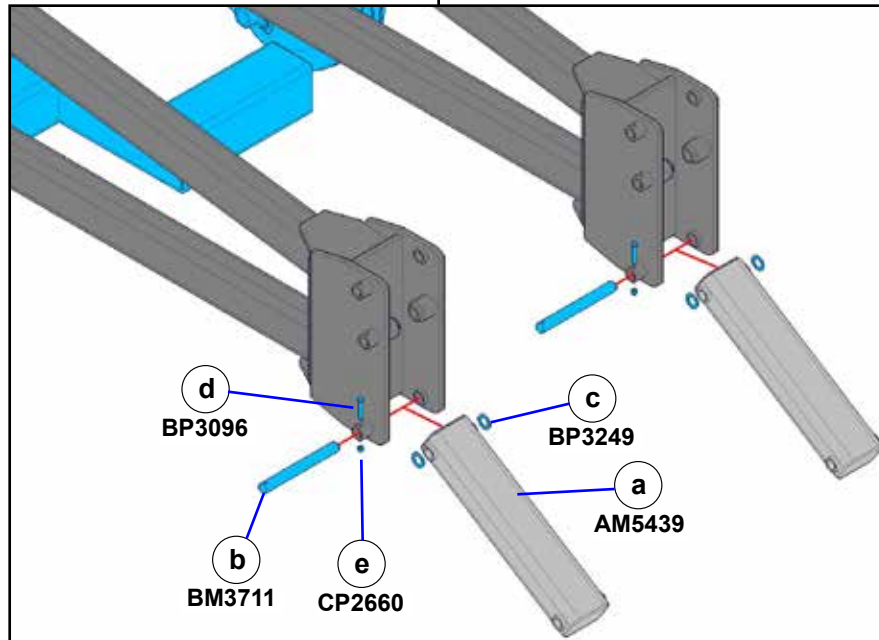


Assembly (3-Point With Lift Assist)

▶ Mounting
3-Point
with lift
assist

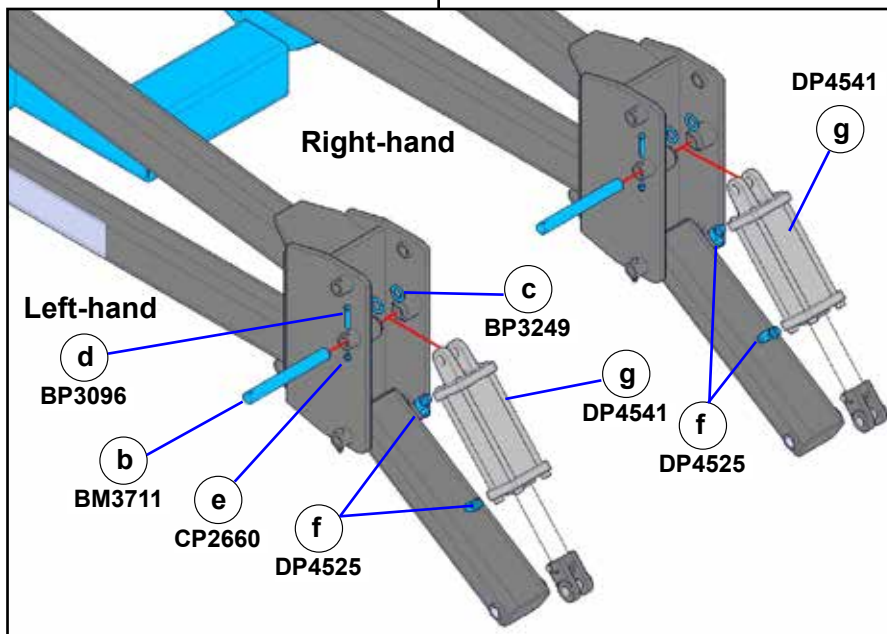
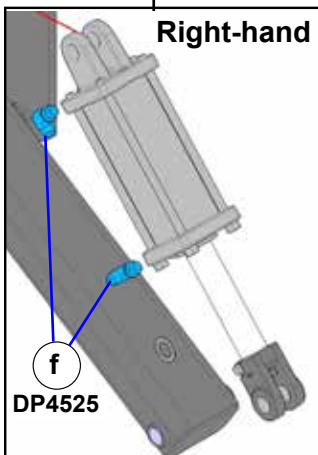
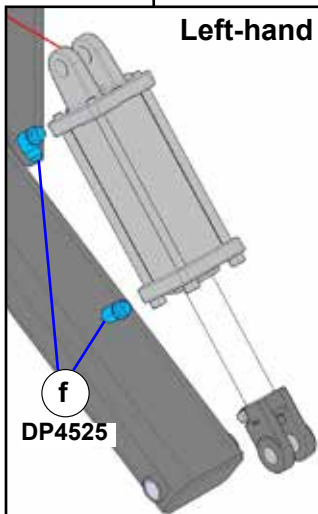
▶ **NOTE:**
*Left-hand
and
right-hand
as viewed
from the
rear.*

▶ Attaching
linkages
and
cylinders
to lift assist
frame



1. Insert (b) (BM3711) 1-1/4" x 12" pin in lift assist frame **lower** hole. Raise (a) (AM5439) 25" lift assist center linkage into position. Continue inserting pin, placing (c) (BP3249) 1-7/8" OD x 1-1/4" ID machinery

2. bushings on each side of linkage.
Secure pin with (d) (BP3096) 3/8" x 2-1/2" hex cap screw and (e) (CP2660) 3/8" hex lock nut, Nylock.



1. Install (f) (DP4525) 10MSAE-10MJIC, 90 degree adapters in top and bottom ports of each (g) (DP4541) 4-1/2" x 8" hydraulic cylinder.
2. Insert (b) (BM3711) 1-1/4" x 12" pin in lift assist frame **middle** hole. Raise (g) (DP4541) 4-1/2" x 8" hydraulic cylinder into

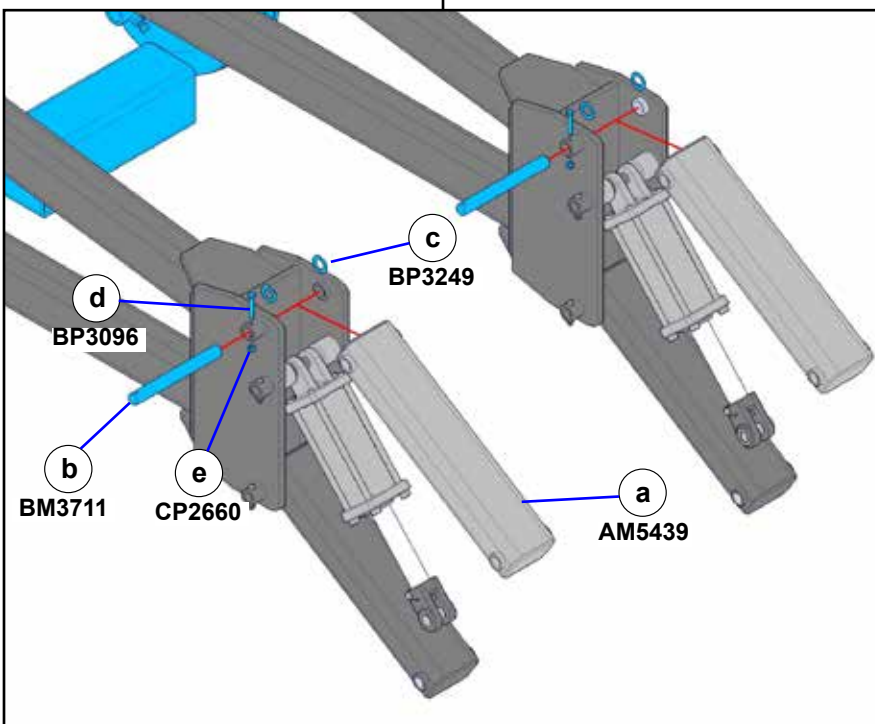
- position. Continue inserting pin, placing (c) (BP3249) 1-7/8" OD x 1-1/4" ID machinery bushings on each side of cylinder butt end.
3. Secure pin with (d) (BP3096) 3/8" x 2-1/2" hex cap screw and (e) (CP2660) 3/8" hex lock nut, Nylock.

Assembly (3-Point With Lift Assist)

► Mounting
3-Point
with lift
assist

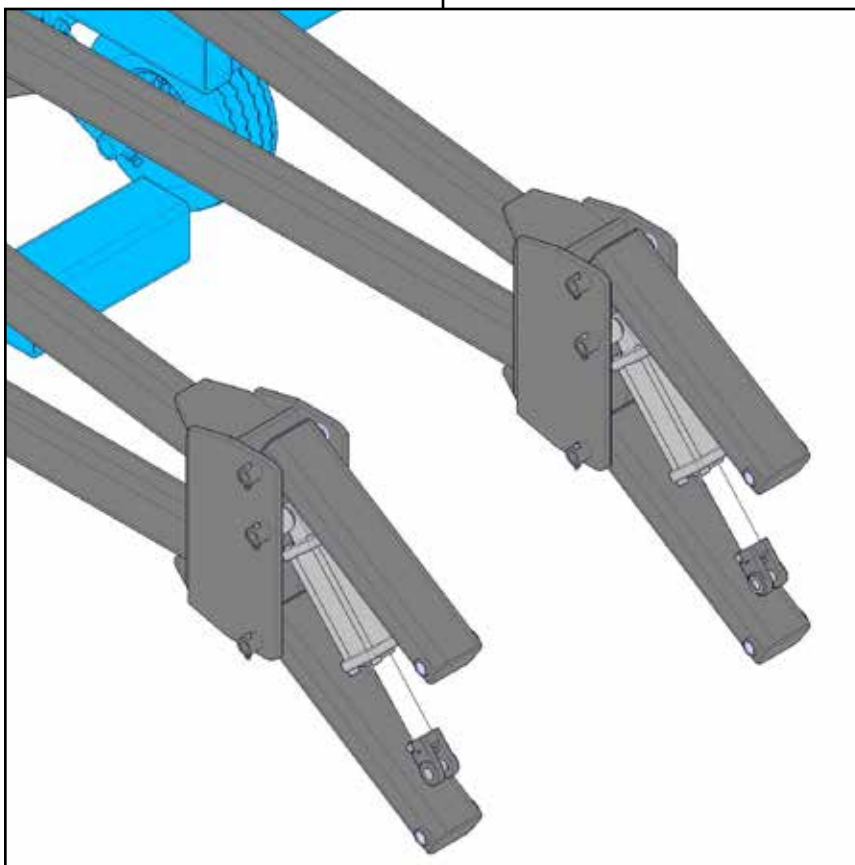
► **NOTE:**
*Left-hand
and
right-hand
as viewed
from the
rear.*

► Attaching
linkages
and
cylinders
to lift assist
frame



1. Insert (b) (BM3711) 1-1/4" x 12" pin in lift assist frame **top** hole. Raise (a) (AM5439) 25" lift assist center linkage into position. Continue inserting pin, placing (c) (BP3249) 1-7/8" OD x 1-1/4" ID machinery

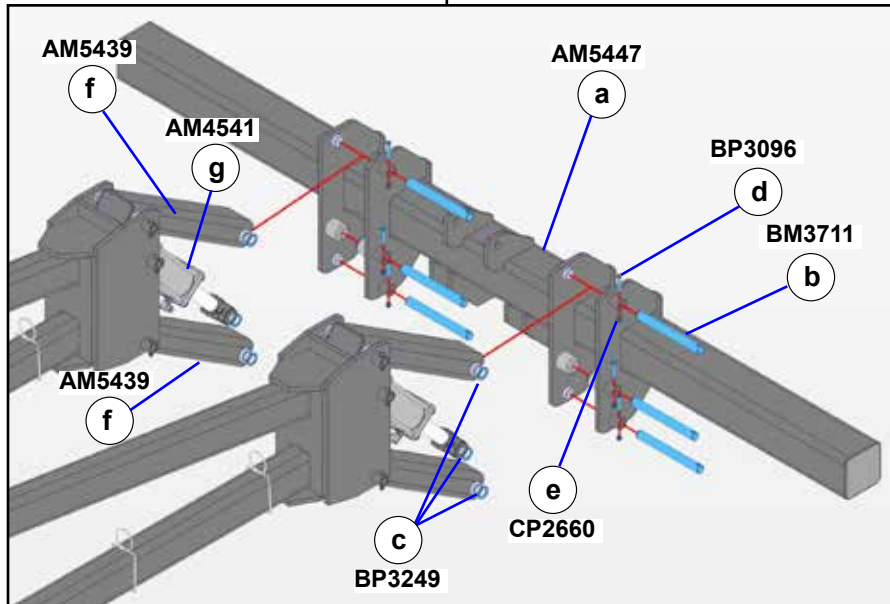
2. bushings on each side of linkage.
Secure pin with (d) (BP3096) 3/8" x 2-1/2" hex cap screw and (e) (CP2660) 3/8" hex lock nut, Nylock.



Assembly (3-Point With Lift Assist)

► Mounting 3-Point with lift assist

► Mounting lift assist caster bar

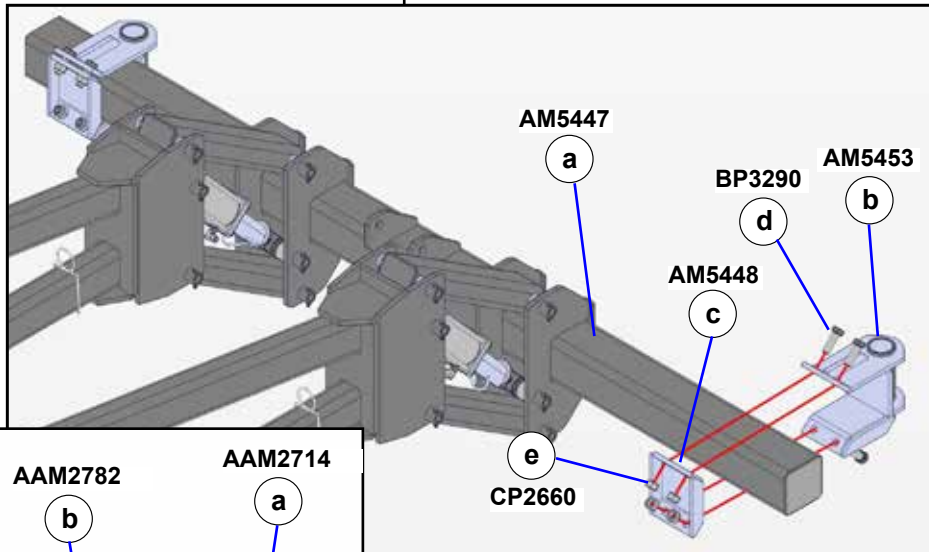


1. Position (a) (AM5447) lift assist caster bar, near linkages.
2. Insert (b) (BM3711) 1-1/4" x 12" pins in caster bar **top** holes. Raise (f) (AM5439) 25" lift assist center linkage into position. Continue inserting pin, placing (c) (BP3249) 1-7/8" OD x 1-1/4" ID machinery bushings on each side of linkages.
3. Secure pin with (d) (BP3096) 3/8" x 2-1/2" hex cap screw and (e) (CP2660) 3/8" hex lock nut, Nylock.
4. Insert (b) (BM3711) 1-1/4" x 12" pin in caster bar **middle** holes. Raise rod end of (g) (DP4541) 4-1/2" x 8" hydraulic cylinder into position. Continue inserting pin, placing (c)
5. Secure pin with (d) (BP3096) 3/8" x 2-1/2" hex cap screw and (e) (CP2660) 3/8" hex lock nut, Nylock.
6. Insert (b) (BM3711) 1-1/4" x 12" pin in caster bar **lower** holes. Raise (f) (AM5439) 25" lift assist center linkage into position. Continue inserting pin, placing (c) (BP3249) 1-7/8" OD x 1-1/4" ID machinery bushings on each side of linkages.
7. Secure pin with (d) (BP3096) 3/8" x 2-1/2" hex cap screw and (e) (CP2660) 3/8" hex lock nut, Nylock.

Assembly (3-Point With Lift Assist)

Caster Wheel Mounts

NOTE:
Consult
row spacing
pages for
caster wheel
mount
location



1. Mount **b (AM5453)** caster wheel mount, on **a (AM5447)** caster bar, with **c (AM5448)** mounting clamp. Secure with 4 **d (BP3290)** 1"-8 X 3" hex cap screws and **e (BP3275)** 1"-8 hex nuts.

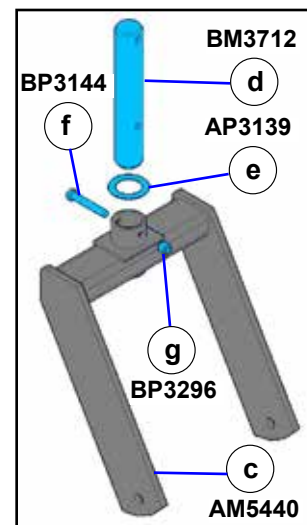
Mounting wheels

2. Remove wheel nuts from **(a) (AAM2714)** straddle hub, hub and spindle assemblies.

3. Mounting **(b) (AAM2782)** 295/75R22.5 wheels.

Lift assist caster fork assembly

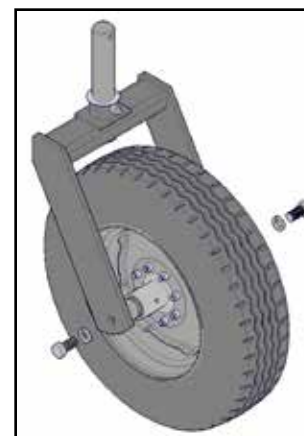
4. Insert **(d) (BM3712)** 3" x 17-15/16" pin into **(c) (AM5440)** lift assist caster fork. Place **(e) (AP3139)** 4-1/4" OD x 3" ID, X .078" thrust washer over pin.



5. Secure pin with **(f) (BP3144)** 3/4" x 5" hex cap screw and **(g) (BP3296)** 3/4" hex lock nut, Nylock.

Mounting wheel assembly

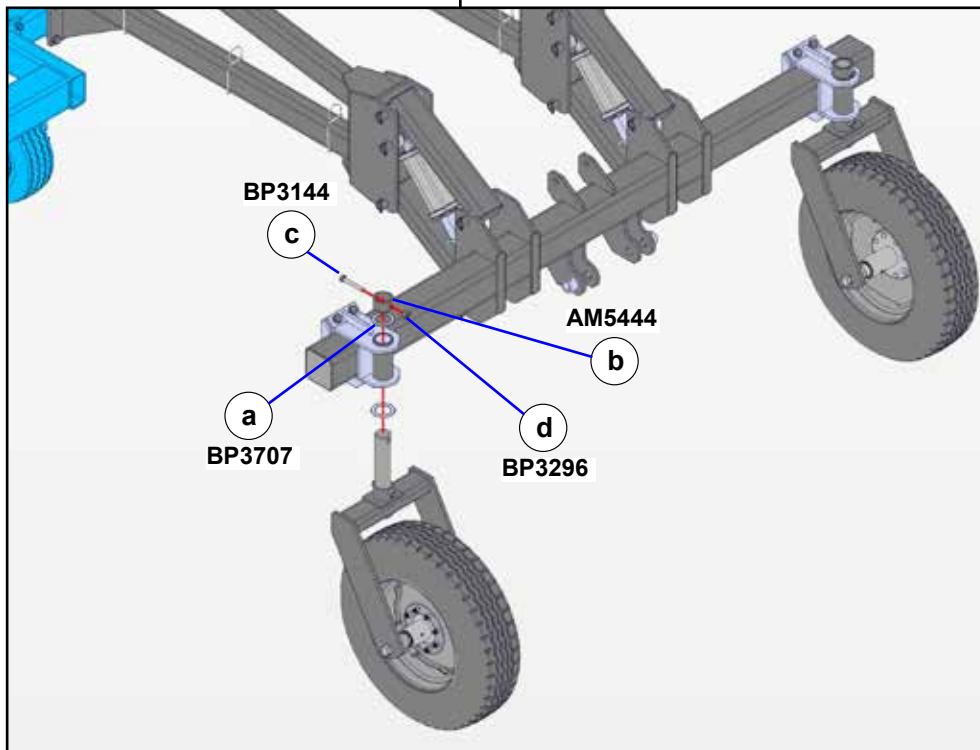
6. Remove hex cap screws and lock washers from hub and spindle assembly. Roll wheel assembly into lift assist caster fork and replace lock washers and hex cap screws.



Assembly (3-Point With Lift Assist)

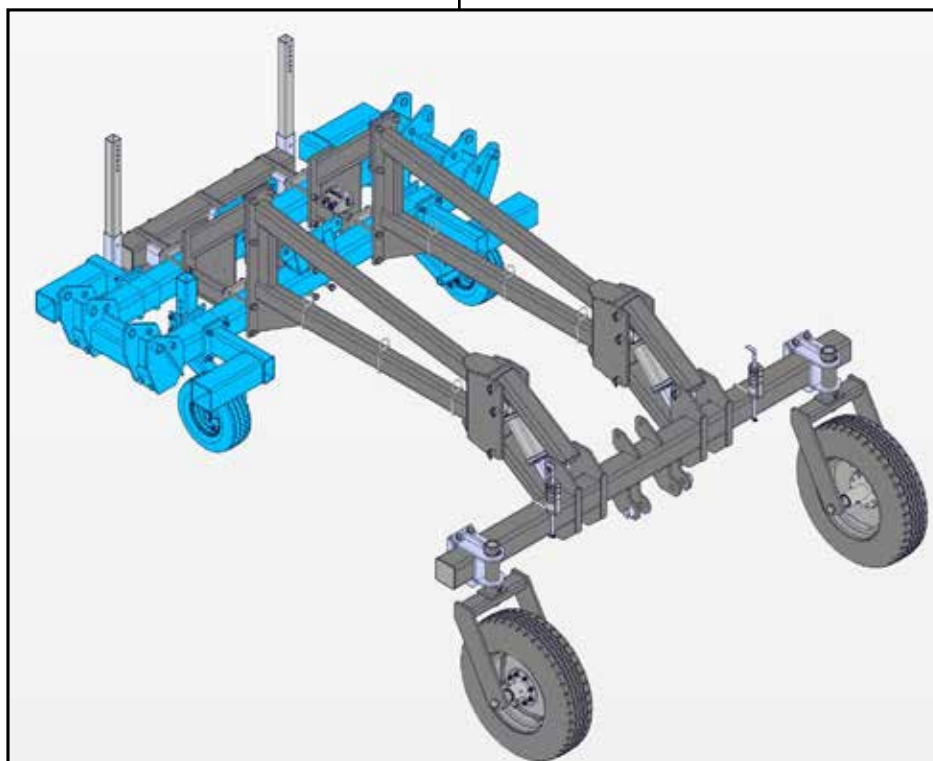
► Mounting 3-Point with lift assist

► Mounting wheels



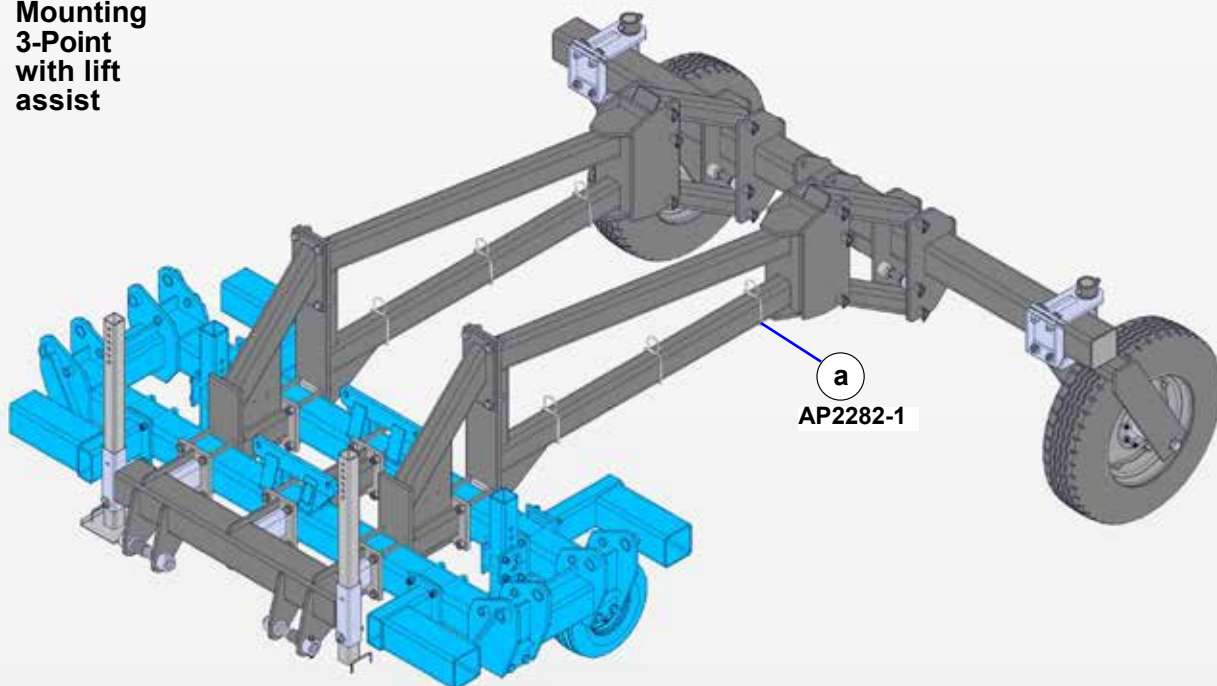
► Lift assist caster fork assembly

1. Raise lift assist caster assembly with forklift. Insert lift assist caster fork and wheel assembly into caster.
2. Place (a) (BP3707) 4-1/4" OD x 3" ID, 10 Ga. machinery bushing over pin. Install (b) (AM5444) 3-3/4" x 3-1/16" x 2" OAL bushing over pin.
3. Secure pin and bushing with (c) (BP3144) 3/4" x 5" hex cap screw and (d) (BP3296) 3/4" hex lock nut, Nylock.



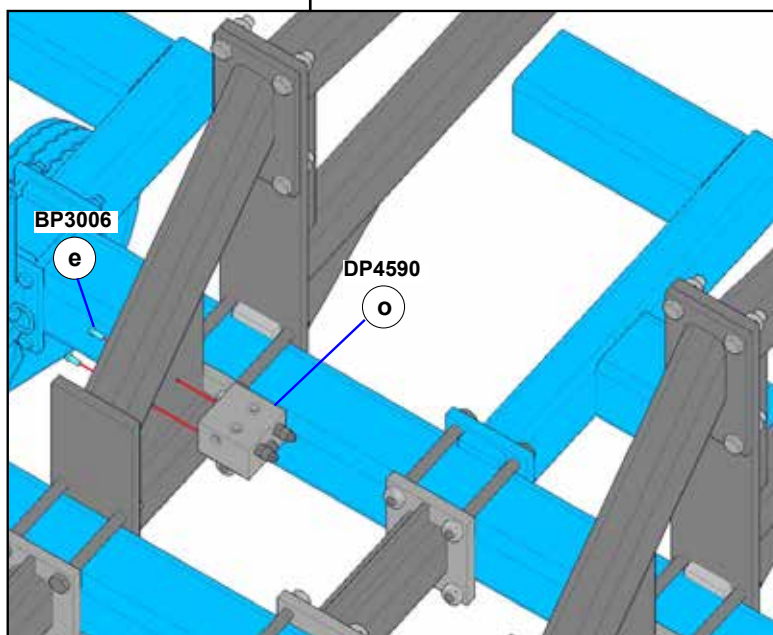
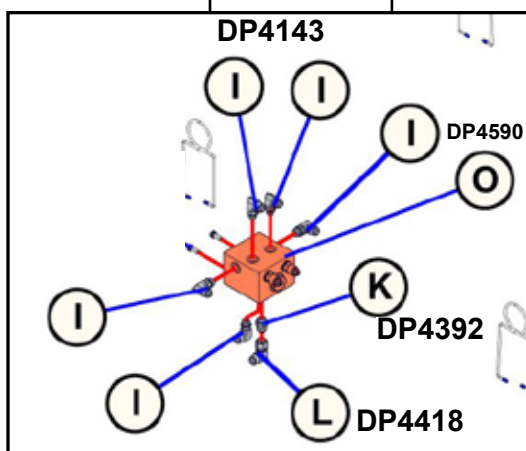
Assembly (3-Point With Lift Assist)

Mounting 3-Point with lift assist



Attaching hose retainers

1. Attach (a) (AP2282-1) 4" x 6" hose retainers to lift assist frame.



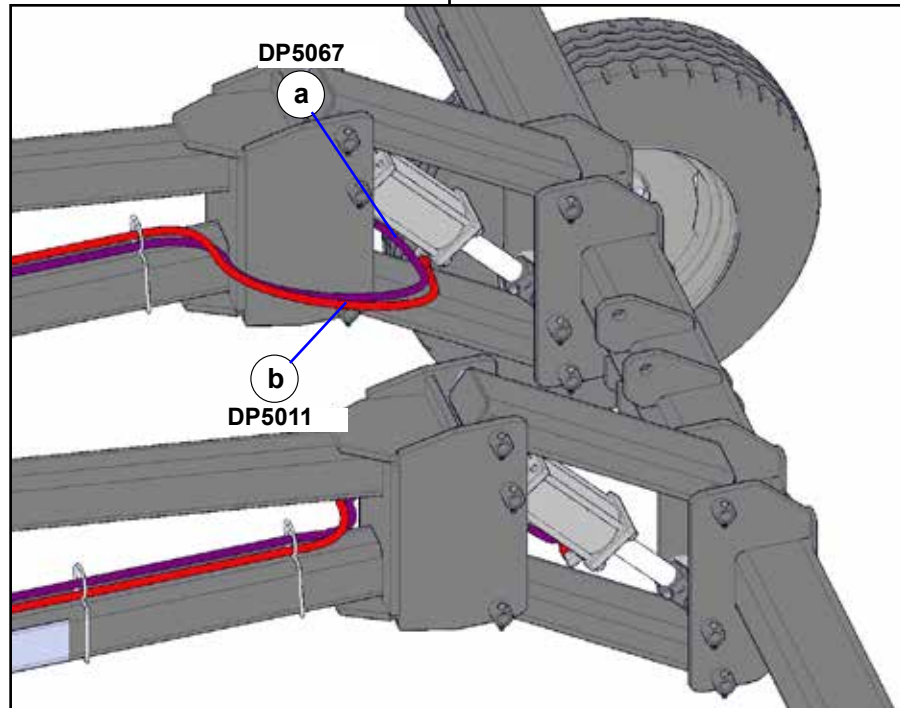
1. Install fittings in flow divider.

2. Mount (o) (DP4590) flow divider with two (e) (BP3006) 3/8" x 1" hex cap screws.

BOM ID	Qty	Item No	Description
I	5	DP4143	ADAPTER, 10MJIC-8MSAE, 90°
J	2	DP4383	COUPLER, PIONEER, 8MQBA-8FSAE
K	3	DP4392	ADAPTER, 8MSAE-10MJIC, STRAIGHT, 6400-10-8
L	1	DP4418	ELBOW, 90°, 10MJIC-10FJX, 6500-10
M	4	DP4525	ADAPTER, 10MSAE-10MJIC, 90°, 6801-10
N	2	DP4541	CYLINDER, HYDRAULIC, 4-1/2 X 8, SAE-34508
O	1	DP4590	FLOW DIVIDER WITH HOLDING VALVES

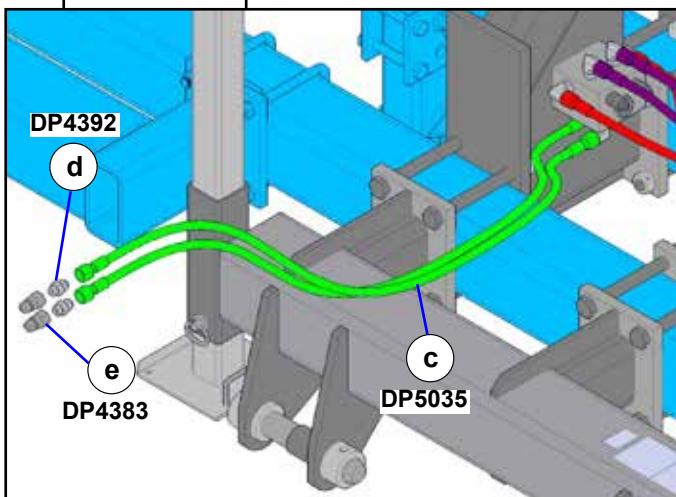
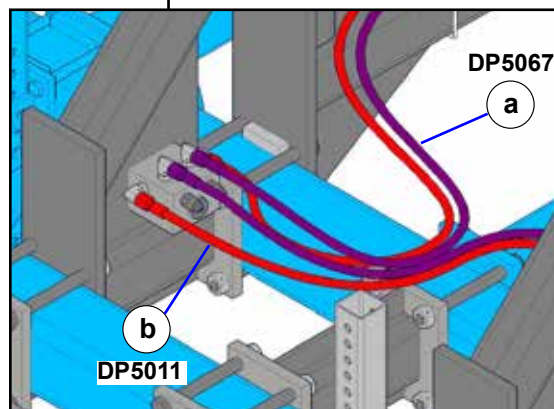
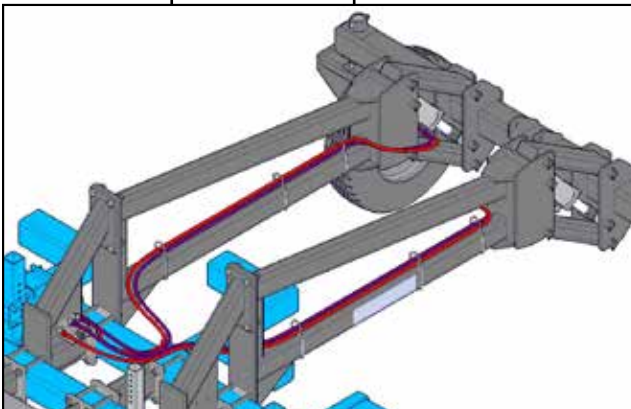
Assembly (3-Point With Lift Assist)

► Mounting 3-Point with lift assist

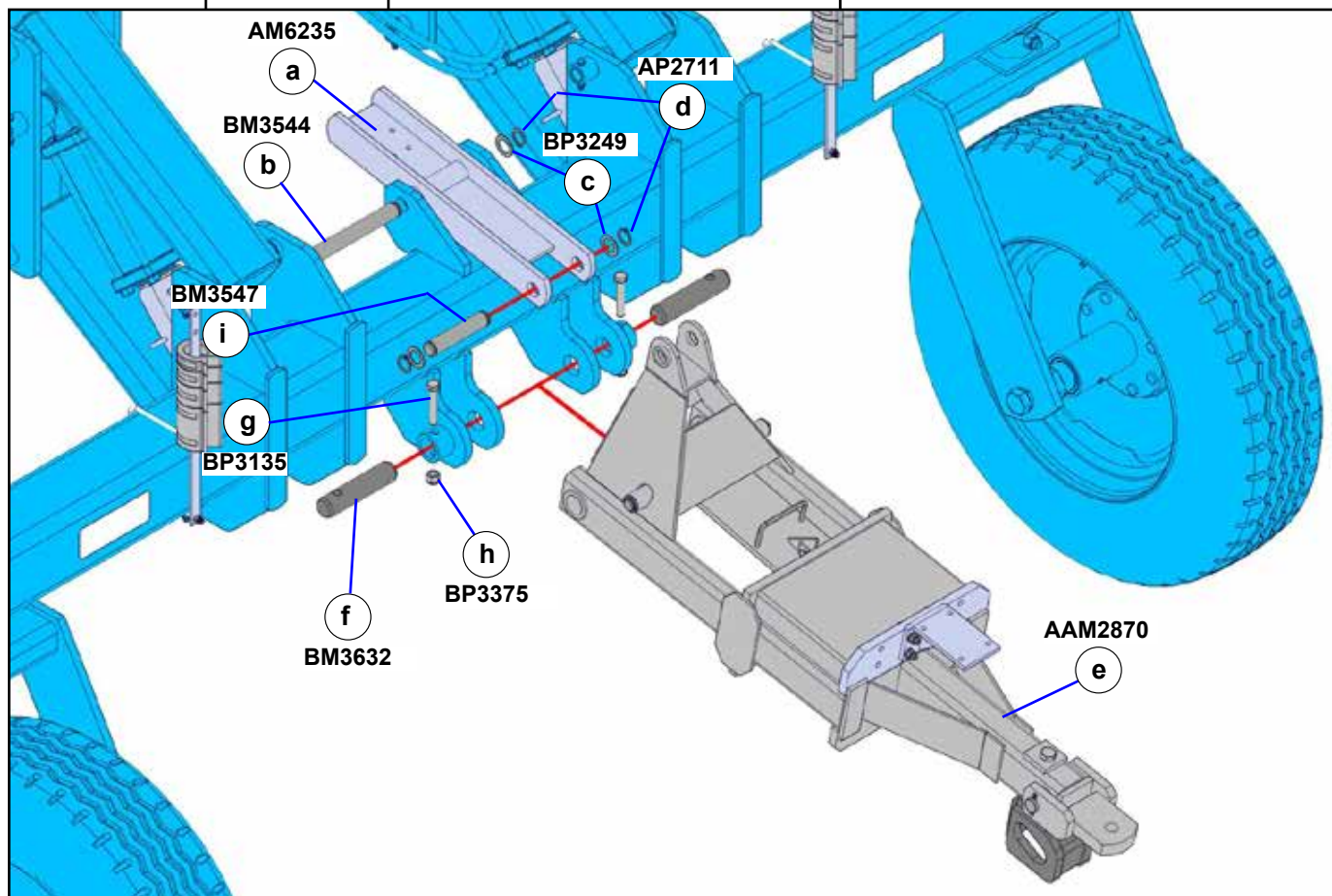


► Wheel lift hoses

1. Attach (a) (DP5067) 3/8" x 174" (14'6") 10FJX-10FJX hydraulic hoses to **Butt** end of wheel lift cylinders. Extend hoses down frame to valve and attach.
2. Attach (b) (DP5011) 3/8" x 180" (15') 10FJX-10FJX hydraulic hoses to **Red** end of wheel lift cylinders. Extend hoses down frame to valve and attach.

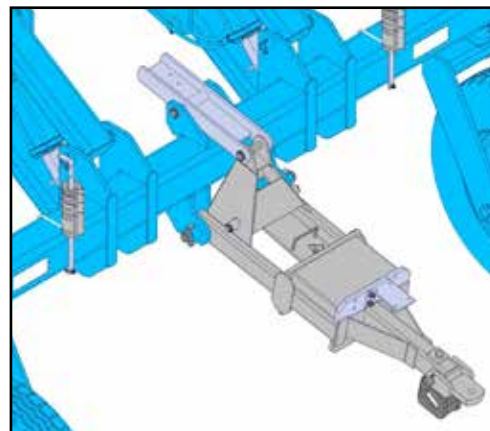


3. Attach (c) (DP5035) 3/8" x 108" (9') 10FJX-10FJX hydraulic hoses to valve bottom 90 degree fittings.
4. Install (d) (DP4392) 8MSAE-10MJIC straight adapters and (e) (DP4383) 8MQBA-8FSAE Pioneer couplers to each hose.

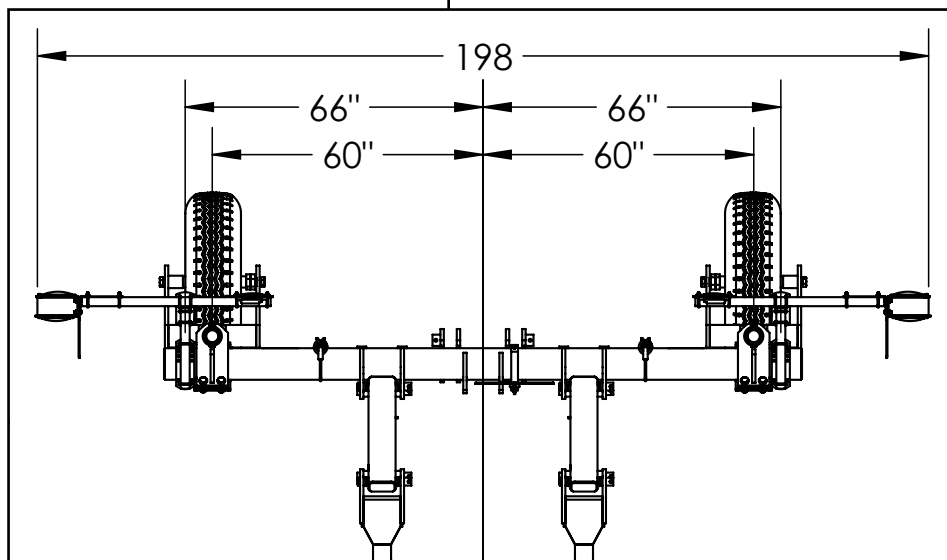


Mounting nurse tank hitch

1. Install (a) (AM6235) nurse tank hitch linkage, 13-1/2", in caster bar top weldment with (b) (BM3544) 1-1/4" x 9" pin. Secure with (c) (BP3249) 1-7/8" OD x 1-1/4" ID, 14 GA. machinery bushing and (d) (AP2711) 1-1/4" external heavy duty, snap ring.
2. Mount (e) (AAM2870) auto-lok nurse tank hitch assembly to caster bar bottom weldments with (f) BM3632 category IV, link pins. Secure with (g) (BP3135) 5/8" x 3-1/2", grade 5, hex cap screws and (h) (BP3375) 5/8" hex lock nuts, Nylock.
3. Raise nurse tank hitch assembly and attach linkage to assembly with (i) (BM3547) 1-1/4" x 5-3/4" pin. Secure with (c) (BP3249) 1-7/8" OD x 1-1/4" ID, 14 GA. machinery bushings and (d) (AP2711) 1-1/4" external heavy duty, snap rings.

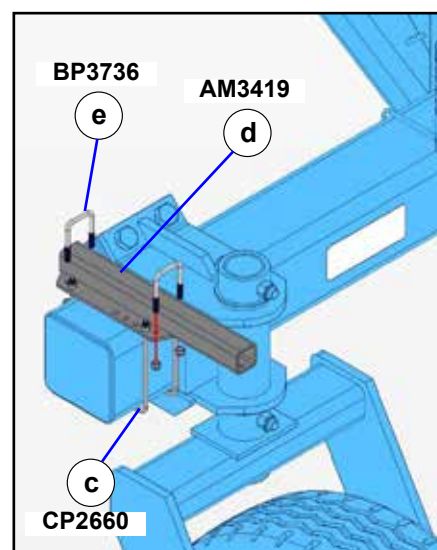
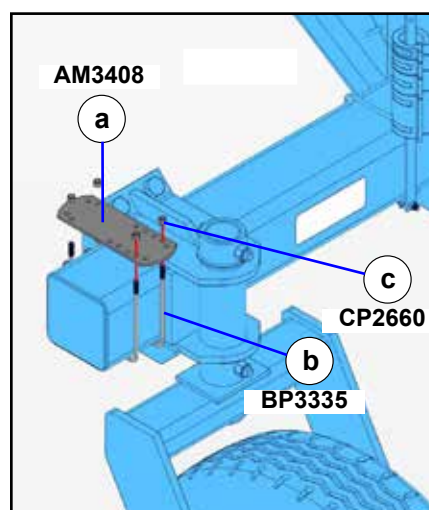


► **Mounting
Lighting Kit,
Galaxy,
Lift Assist
Bundle:
41000027**



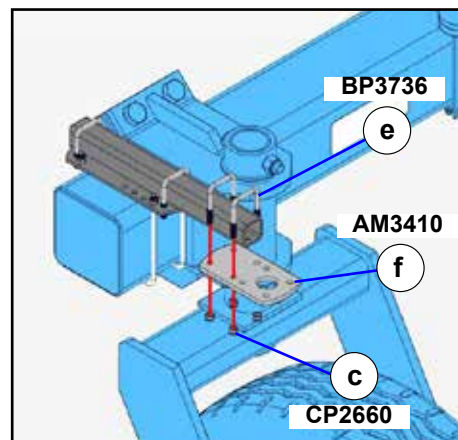
► **Mounting
brackets**

1. On each side for the rear frame mount (a) (AM3408) light post mounting plate 66" from the center of the rear frame to center of plate.
2. Secure plates with (b) (BP3335) 3/8" x 7"W x 8"L u-bolts and (c) (CP2660) 3/8" hex lock nuts.
3. Attach (d) (AM3419) light bracket tubes (1'-5-7/8") to mounting plate with (e) (BP3736) 3/8" x 2"W x 3"L u-bolts and (c) (CP2660) 3/8" hex lock nuts.



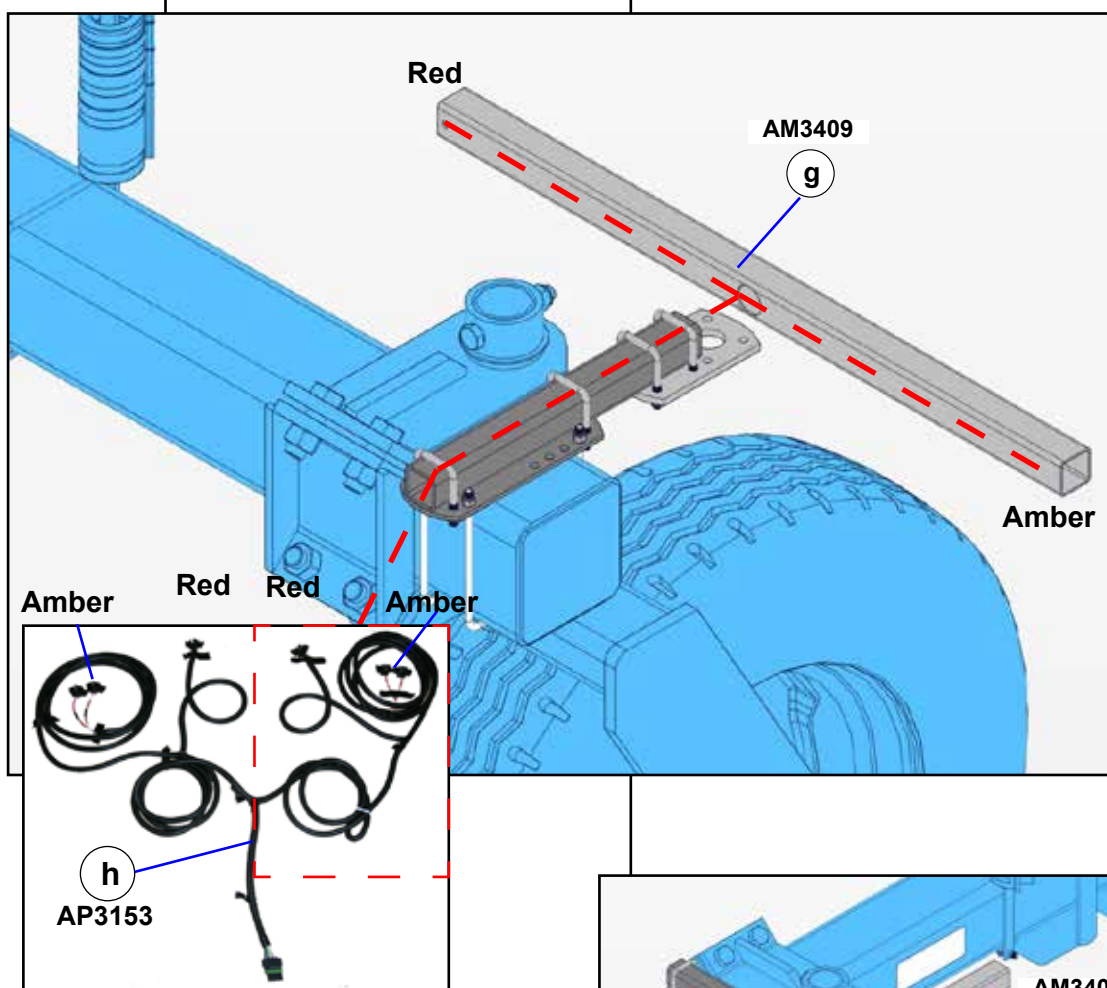
► Mounting light bracket tubes

1. Attach (f) (AM3410) light post mounting plate to bottom of tube with (e) (BP3736) 3/8" x 2"W x 3"L u-bolts and (c) (CP2660) 3/8" hex lock nuts.

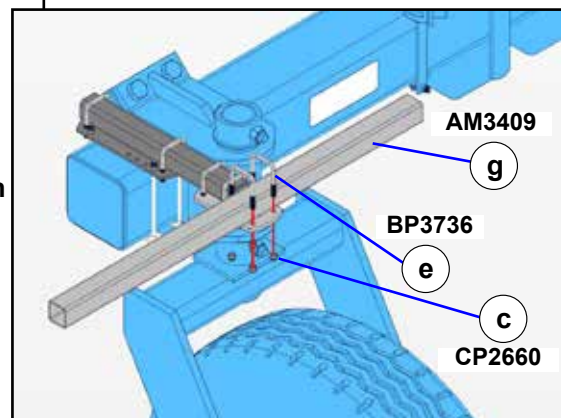


► Inserting electrical harness

2. Before attaching (g) (AM3409) light tube bracket (5'-8-7/8") on plate. Insert (h) (AP3153) 25' rear two post electrical harness into tubes on each side. Red wire to the inside. Amber wires to the outside.



3. Center (g) (AM3409) light tube bracket (5'-8-7/8") on plate with the tube hole aligned with the short tube. Secure with (e) (BP3736) 3/8" x 2"W x 3"L u-bolts and (c) (CP2660) 3/8" hex lock nuts.

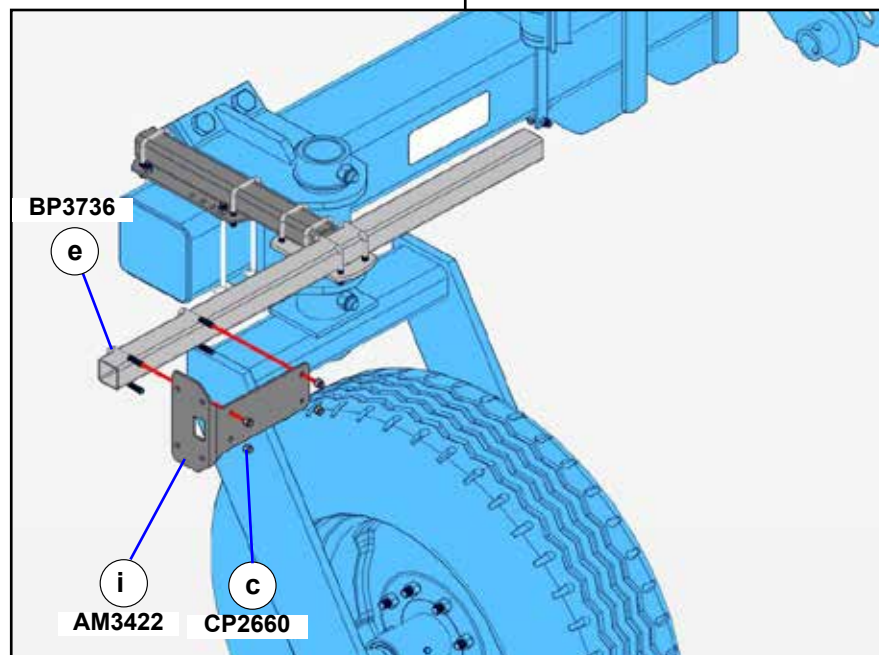
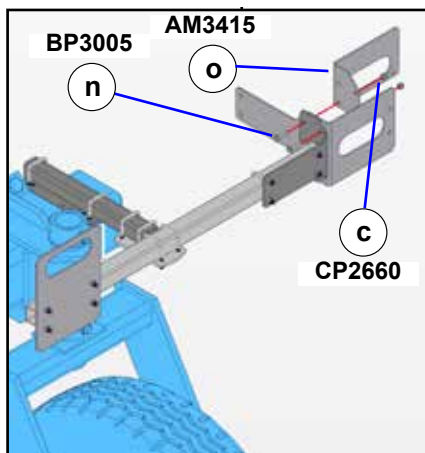


Mounting side mount bars

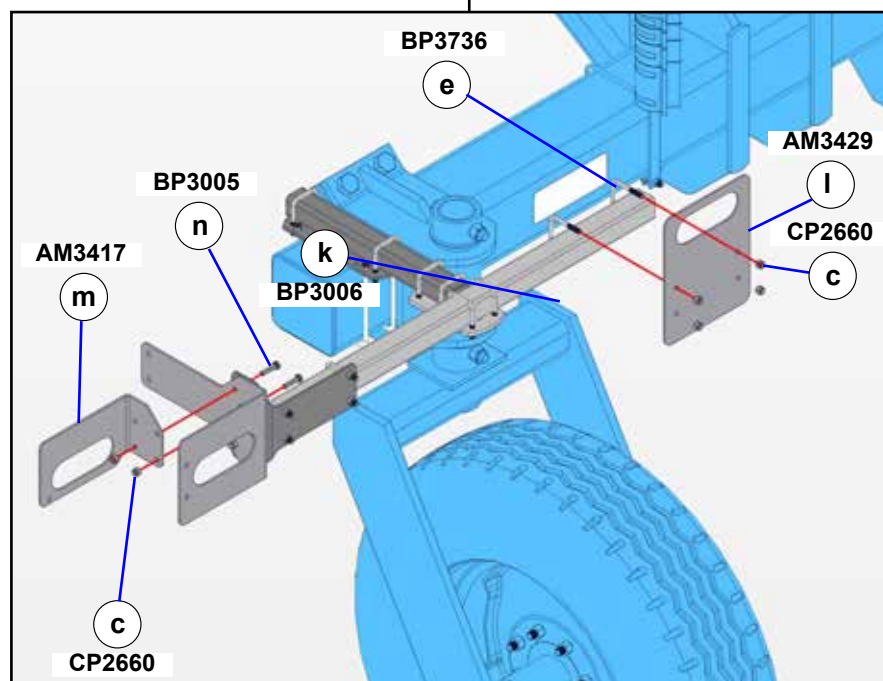
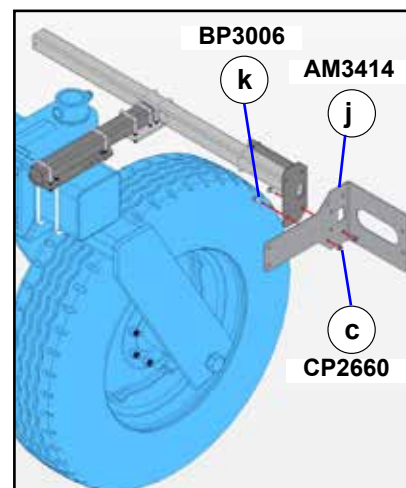
1. Position (i) (AM3422) side mount bar light brackets on tube end.
Secure with (e) (BP3736) 3/8" x 2"W x 3"L u-bolts and (c) (CP2660) 3/8" hex lock nuts.

NOTE:
Left-hand and right-hand as viewed from the rear.

4. Mount (m) (AM3417) front right-hand light bracket with two (n) (BP3005) 3/8" x 1-1/2", grade 5, hex cap screws.
Secure with (c) (CP2660) 3/8" hex lock nuts.
5. Mount (o) (AM3415) front left-hand light bracket with two (n) (BP3005) 3/8" x 1-1/2", grade 5, hex cap screws.
Secure with (c) (CP2660) 3/8" hex lock nuts.



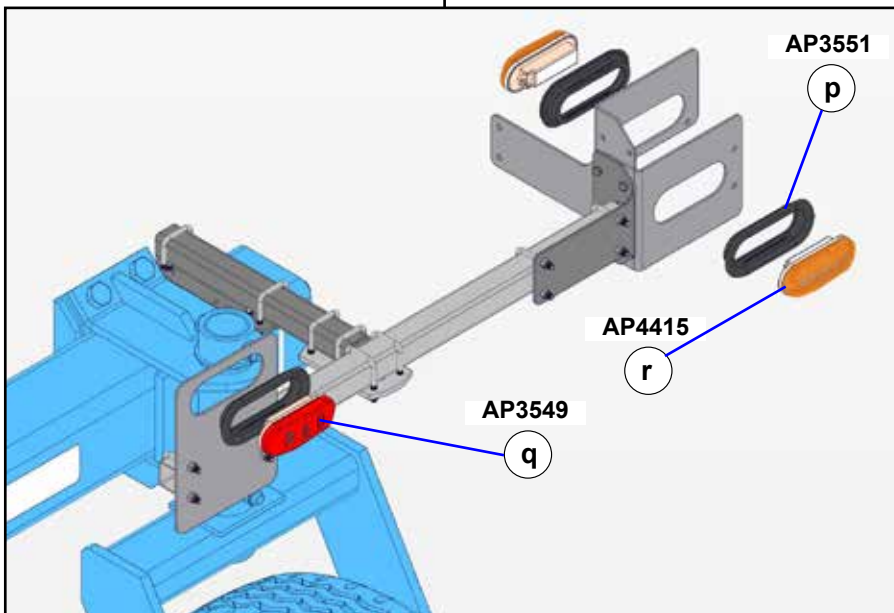
2. Attach (j) (AM3414) rear light bracket to side mount bar with two (k) (BP3006) 3/8" x 1", grade 5, hex cap screws.
Secure with (c) (CP2660) 3/8" hex lock nuts.
3. Mount (l) (AM3429) light bracket to side mount tube with (e) (BP3736) 3/8" x 2"W x 3"L u-bolt and (c) (CP2660) 3/8" hex lock nuts.



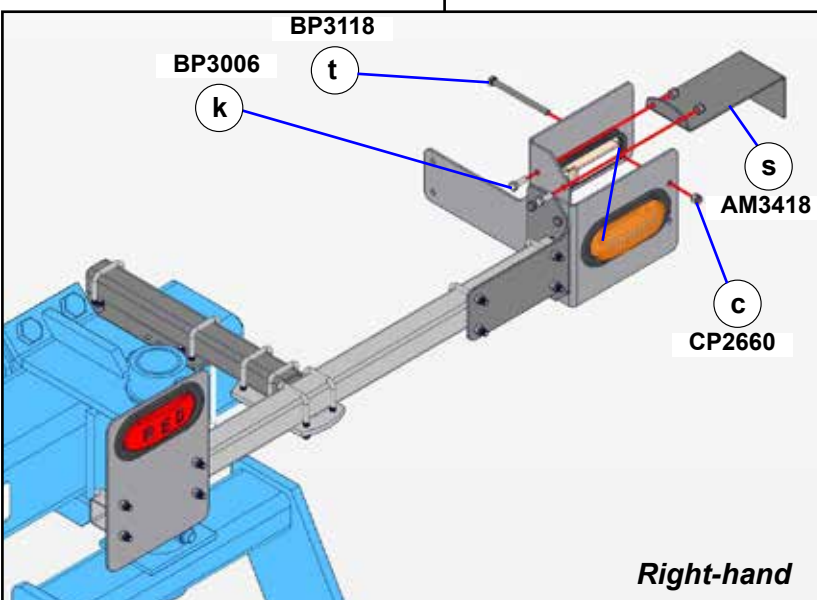
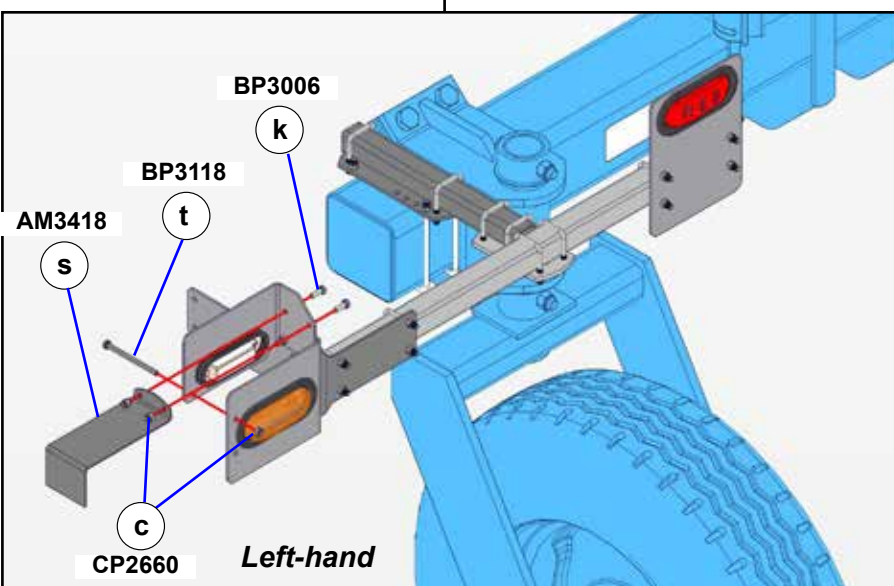
► Mounting lights

1. Insert (p) (AP3551) model 60 oval grommets into mounting.
2. Insert (q) (AP3549) Red lamp into grommet. Insert (r) (AP4415) Amber lamp into outside grommets.

► **NOTE:**
Left-hand
and
right-hand
as viewed
from the
rear.

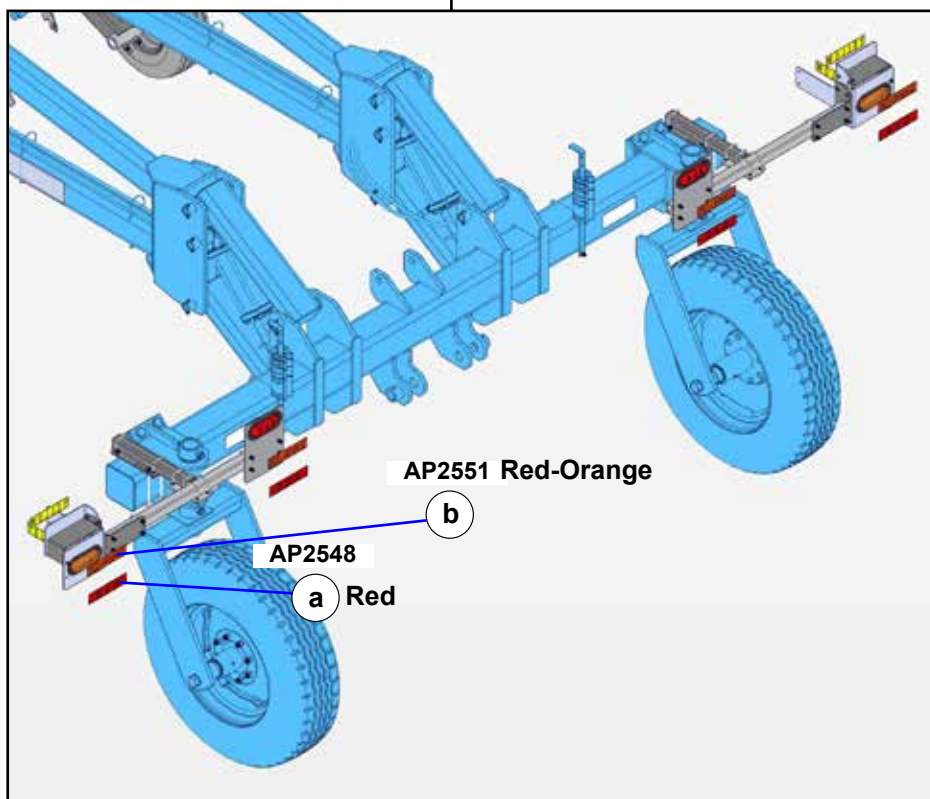


3. Attach wiring harness to the Red and Amber lamps.
4. Install (s) (AM3418) light bracket shield on each Amber lamp assembly with two (k) (BP3006) 3/8" x 1", grade 5, hex cap screws. Secure with (c) (CP2660) 3/8" hex lock nuts.
5. Insert (t) (BP3118) 3/8" x 5" hex cap screw through tractor side hole and secure with (c) (CP2660) 3/8" hex lock nut.

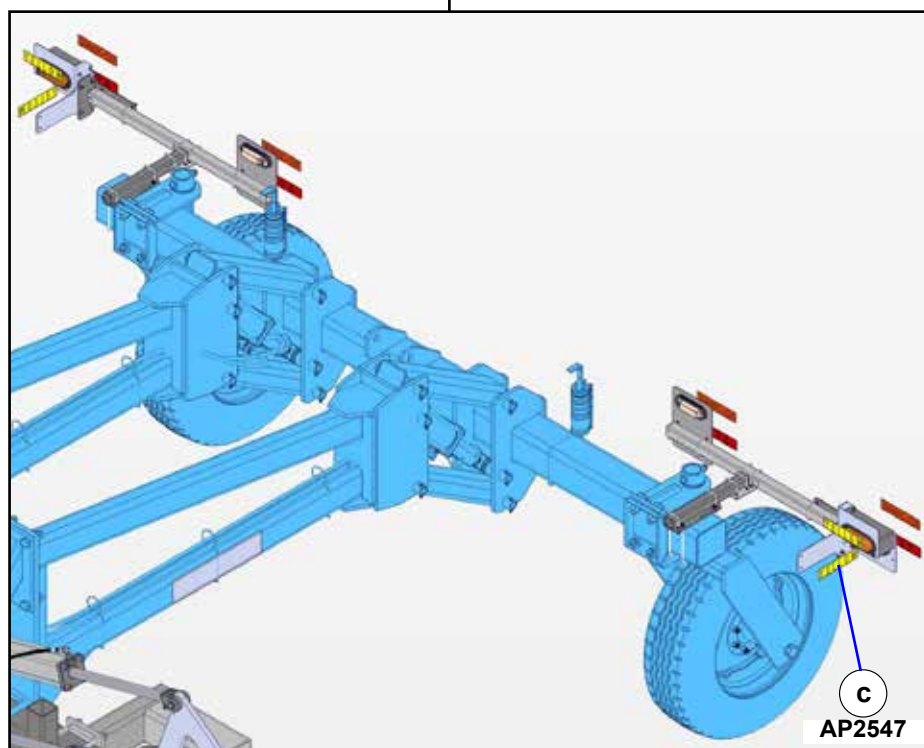


► Mounting lights

1. Attach (a) (AP2548) 2 x 9 Red reflectors **below** Red and Amber lights.
2. Attach (b) (AP2551) 2 x 9 Red-Orange reflectors **above** Red and Amber lights.



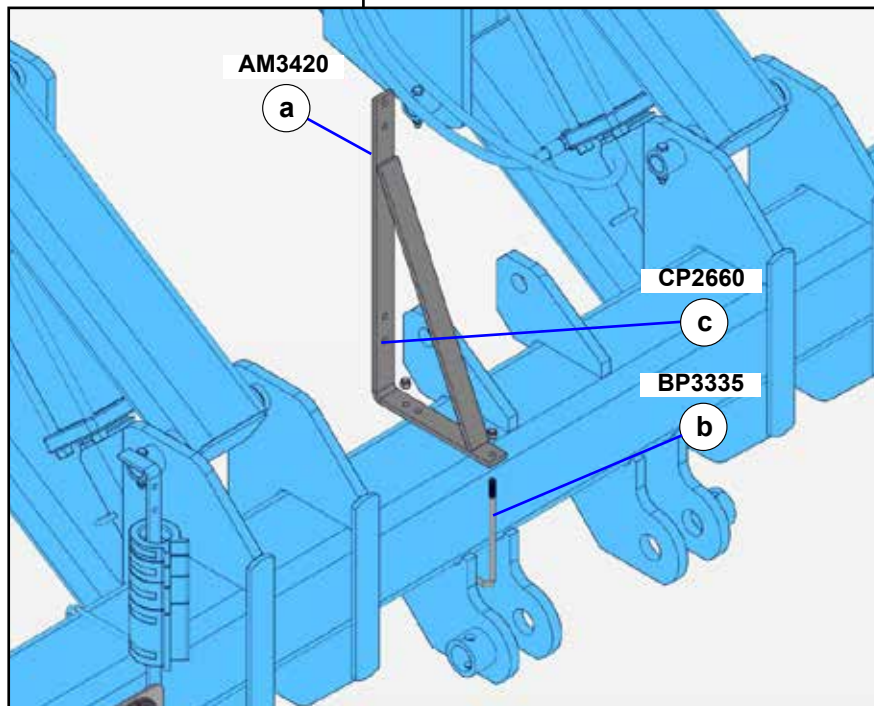
3. Attach (c) (AP2547) 2 x 9 Yellow reflectors **above** Amber lights.
4. Attach (c) (AP2547) 2 x 9 Yellow reflectors on rear light brackets.



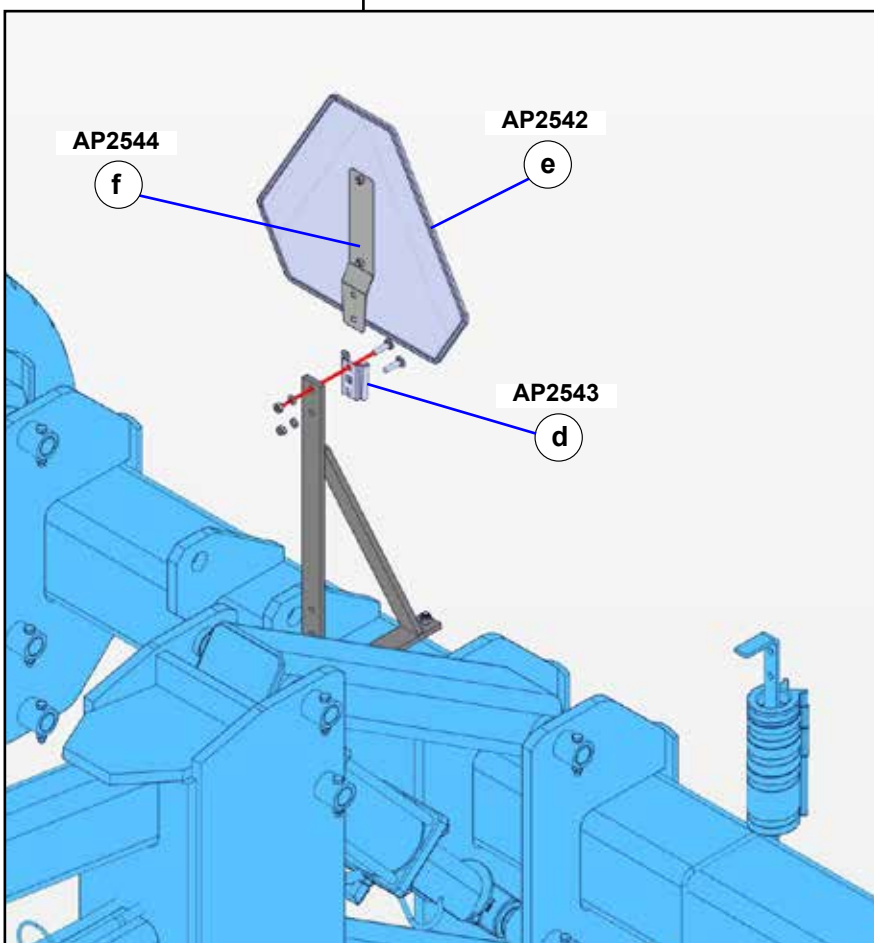


Mounting SMV

1. Attach (a) (AM3420) SMV mounting bracket with (b) (BP3335) 3/8" x 7"W x 8"L u-bolt and (c) (CP2660) 3/8" hex lock nuts.



2. Attach (d) (AP2543) SMV mounting socket with hardware provided with socket.
3. Mount (e) (AP2542) SMV sign to (f) (AP2544) SMV mounting spade with hardware provided with spade.
4. Insert assembly into socket.

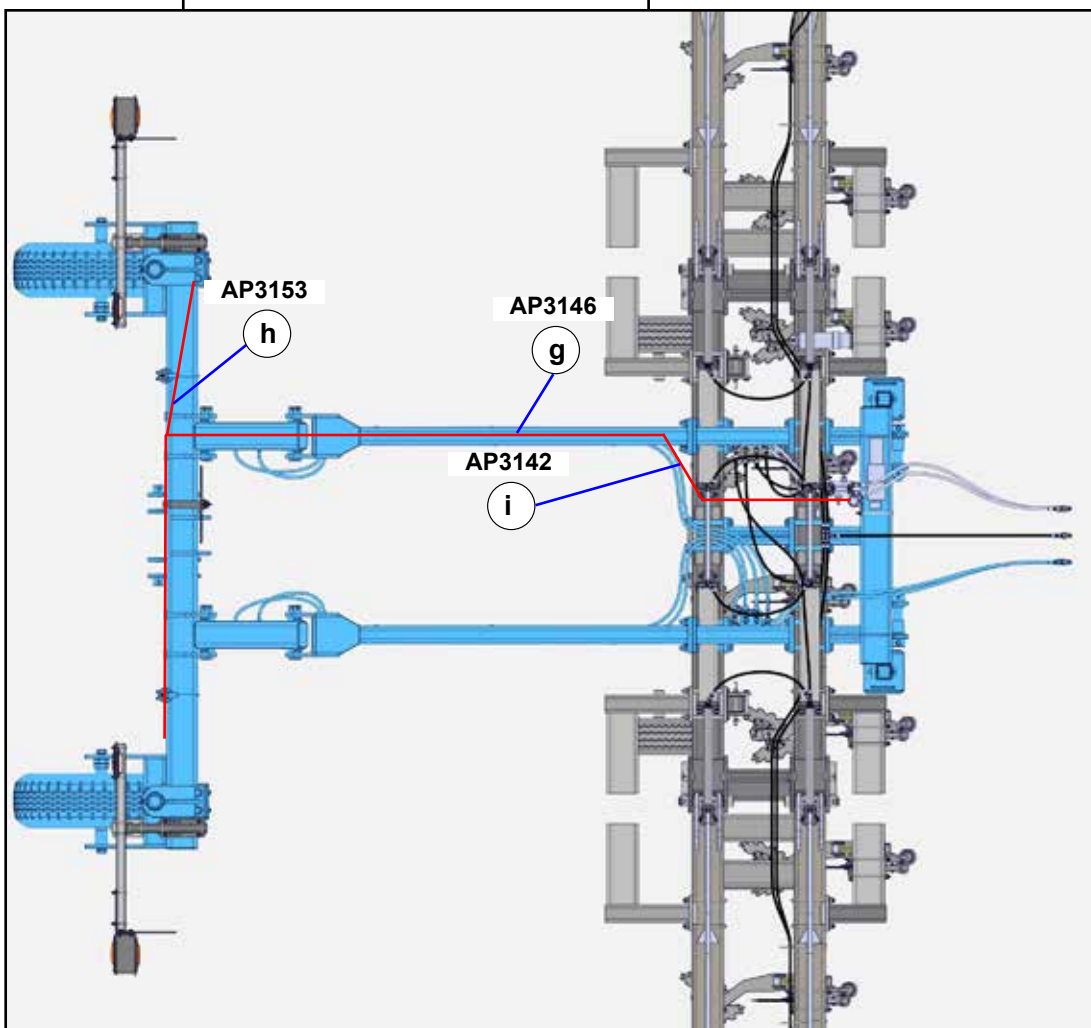
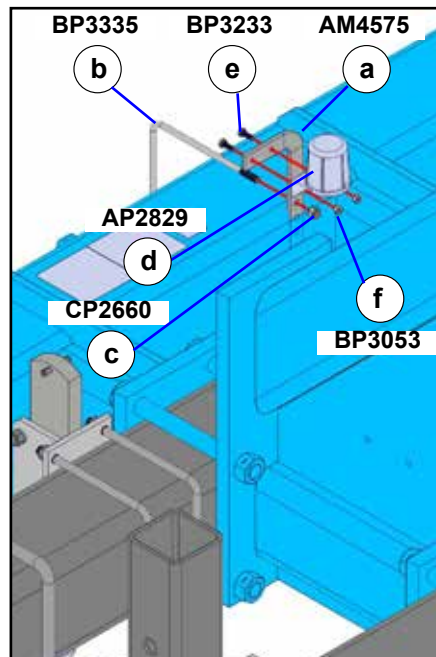


Assembly (41000027 Lighting Kit, Galaxy, Lift Assist)



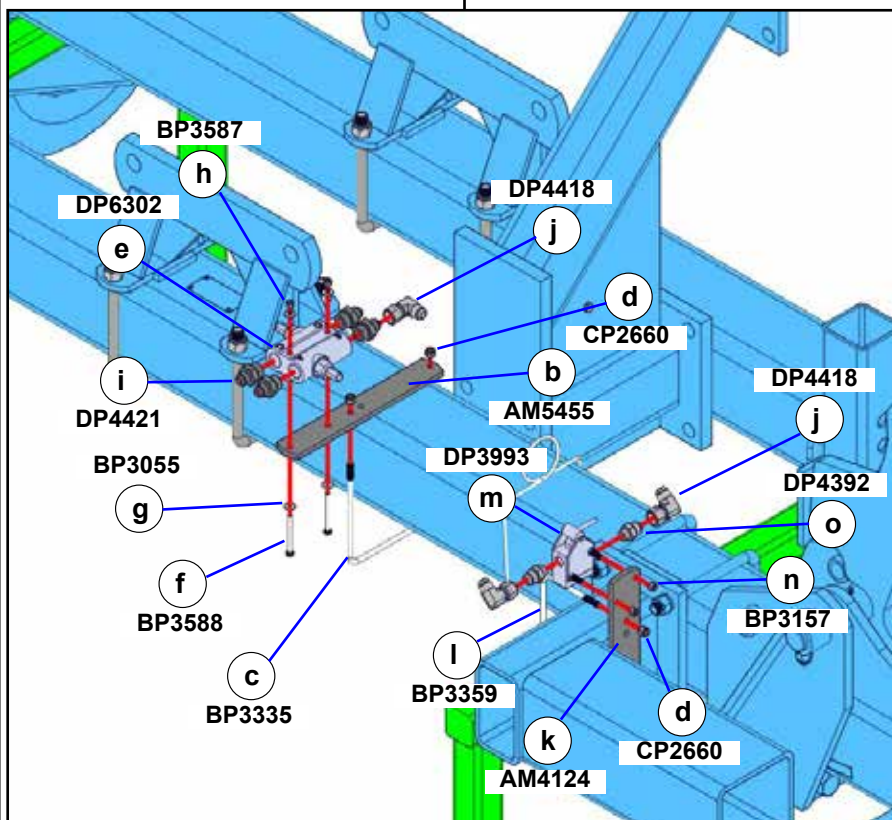
Mounting SMV

1. Mount (a) (AM4575) dust cap holder bracket to two point frame with (b) (BP3335) 3/8" x 7"W x 8"L u-bolt and (c) (CP2660) hex lock nuts.
2. Attach (d) (AP2829) electrical harness dust cap to bracket with (e) (BP3233) 1/4" X 3/4" hex cap screws and (f) (BP3053) 1/4" hex nuts.
3. Connect (g) (AP3146) 15' main extension electrical harness to (h) (AP3153) 25' rear two post electrical harness. Extend down the left-hand lift assist frame. Connect (i) (AP3142) 10' main, 7 pin electrical harness to (g) and extend to dust cap.
4. Secure harness with cable ties.

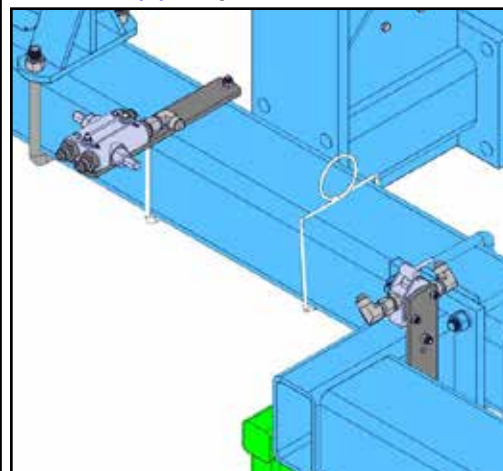


Assembly (PKG00224, Package, Galaxy Hydraulics, Primary Fold, 4 X 24 Cylinders)

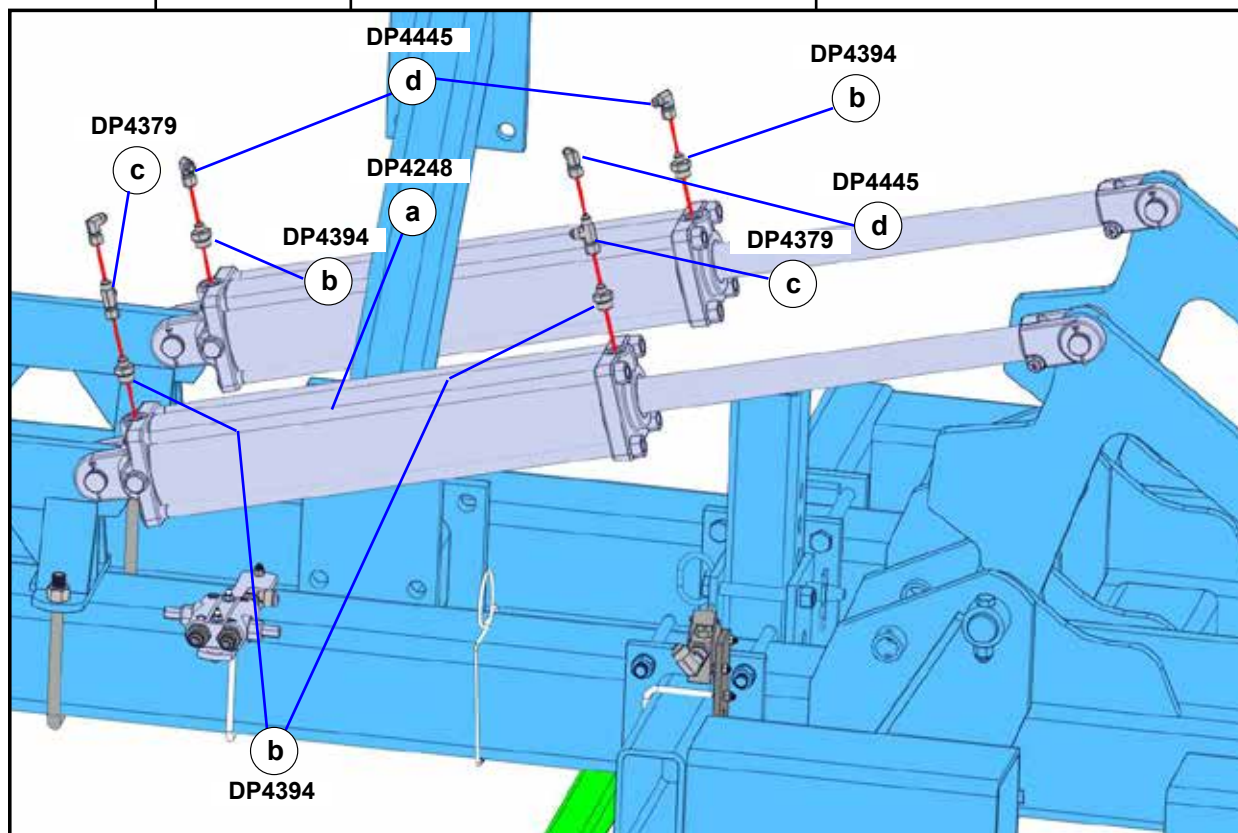
Mounting hydraulic valves



1. Attach (b) (AM5455) relief valve mounting bracket to main frame with (c) (BP3335) 3/8"-16 x 7" W x 8" L u-bolt and (d) (CP2660) 3/8"-16 nylock hex nut.
2. Attach (e) (DP6302) Prince double relief valve to (b) with two (f) (BP3588) 1/4"-20 x 3" hex cap screws, (g) (BP3055) 1/4" flat washers, and (h) (BP3587) 1/4" nylock hex nuts.
3. Install 4 (i) (DP4421) adapters 12MSAE-10MJIC into (e)
4. Install (j) (DP4418) elbow, 90, 10MJIC-10FJX, on left rear(i).
5. Attach (k) (AM4124) transport valve mount with (l) (BP3359) u-bolt, 3/8"-16 x 7"W x 5"L, and (d) (CP2660).
6. Attach (m) (DP3993) hydraulic check valve, to (k) with two (n) (BP3157) hex nut, 5/16"-18 Grade 2 plated.
7. Install 2 (o) (DP4392) adapter, 8MSAE-10MJIC, into (m).
8. Install 2 (j) (DP4418) elbows onto (o) adapters.



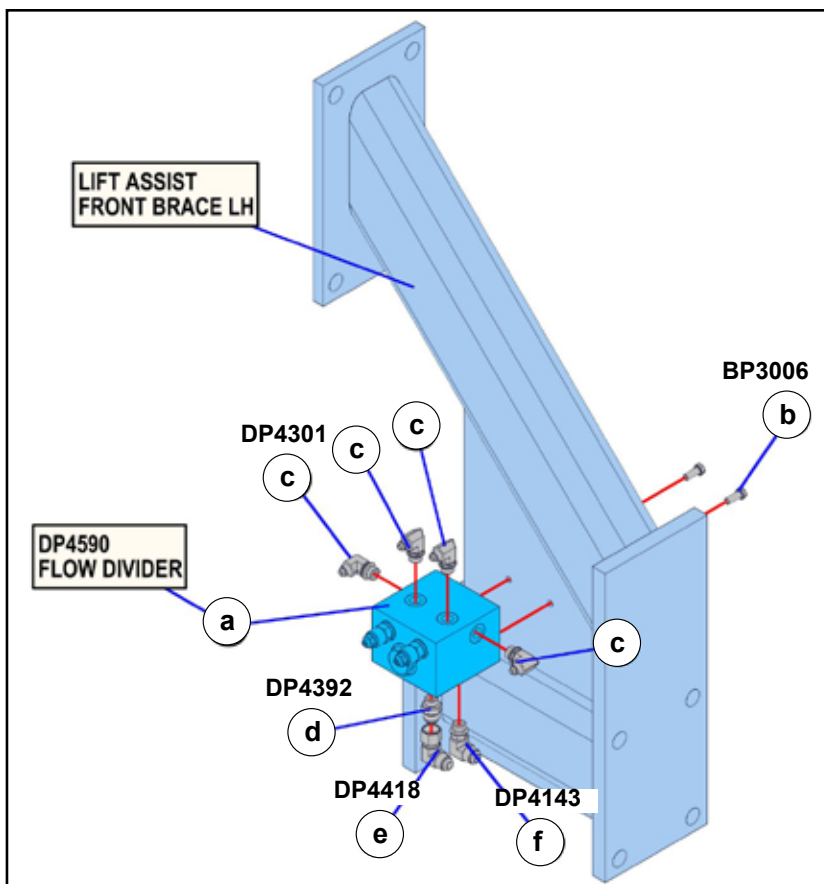
Assembly (PKG00224, Package, Galaxy Hydraulics, Primary Fold 4 X 24 Cylinders)



Attaching cylinders and fittings

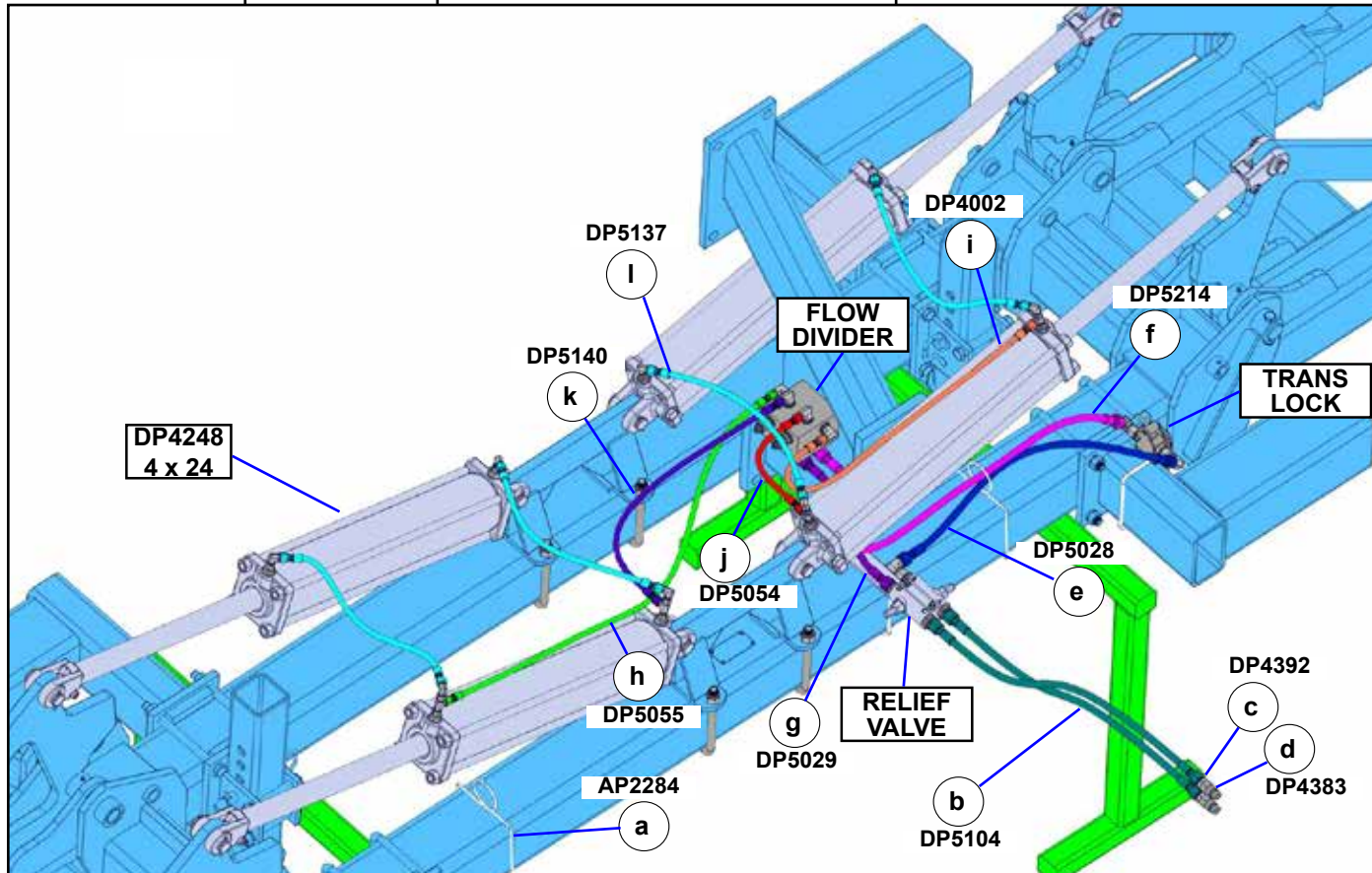
1. Attach (a) (DP4248) 4 x 24 hydraulic cylinders to main frame cylinder lug and extend rod to wing linkage and secure.
2. Install (b) (DP4394) 8MSAE-6MJIC adapter in each top port of cylinders.
3. Install (c) (DP4379) 6FJX-6MJ-6MJ on each adapter on the two forward cylinders.
4. Install 2 (d) (DP4445) Elbow 90 6MJIC-6FJX on each cylinder.

Attaching flow divider and fittings



1. Attach (a) (DP4590) Flow Divider to left side front lift assist brace with two (b) (BP3006) 3/8" X 1" hex cap screws.
2. Install 4 (c) (DP4301) 6MJ-8MSAE 90 degree adapter in each top and side port of flow divider.
3. Install (d) (DP4392) 8MSAE-10MJIC straight adapter and (e) (DP4418) 10MJIC-10FJX 90 degree elbow in to right bottom port of flow divider.
4. Install (f) (DP4143) elbow 90 10MJIC-8MSAE in left bottom port of flow divider.

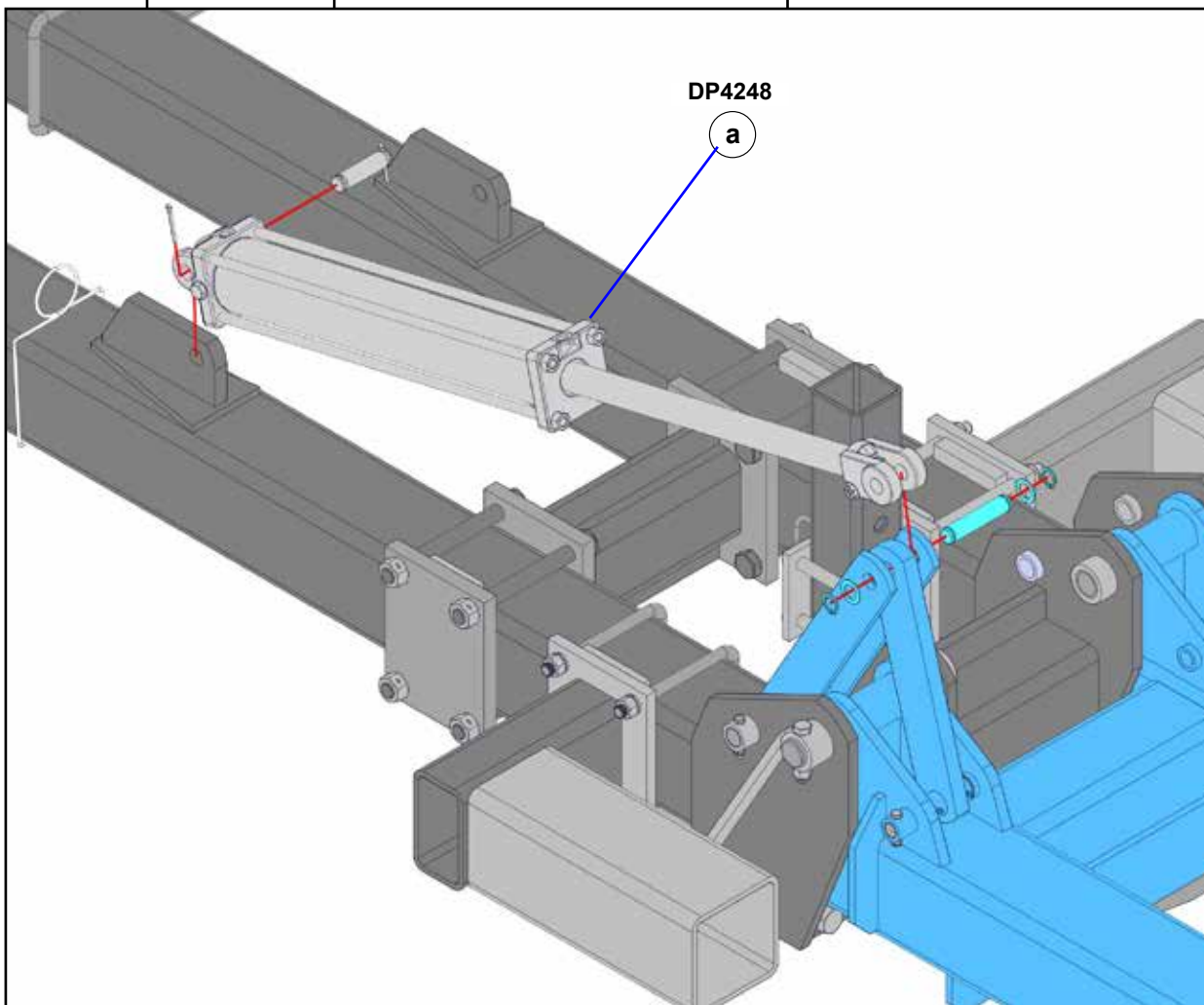
Assembly (PKG00224, Package, Galaxy Hydraulics, Primary Fold 4 X 24 Cylinders)



Attaching hydraulic hoses primary fold

1. Install 2 (a) (AP2284) hose retainers to front bar of center frame.
2. Attach 2 (b) (DP5104) 3/8" X 66" 10FJX-10FJX hydraulic hoses to front ports of relief valve. Install (c) (DP4392) 8MSAE-10MJIC adapter and (d) (DP4383) coupler, on ends of (b).
3. Install (e) (DP5028) 3/8" X 36" 10FJX-10FJX hydraulic hose from left rear of relief valve to front of transport lock. Install (f) (DP5214) 3/8" X 46" 10FJX-10FJX hydraulic hose from rear of transport lock to bottom left port of flow divider, and (g) (DP5029) 3/8" X 18" 10FJX-10FJX hydraulic hose from bottom right of flow divider to right rear of relief valve.
4. Install (h) (DP5055) 1/4" X 66" 6FJX-6FJX hydraulic hose from rear fitting of flow divider to tee in rod end of right front cylinder.
5. Install (i) (DP4002) 1/4" X 48" 6FJX-6FJX hydraulic hose from front fitting of flow divider to tee in rod end of left front cylinder.
6. Install (j) (DP5054) 1/4" X 20" 6FJX-6FJX hydraulic hose from top front fitting of flow divider to tee in butt end of left front cylinder.
7. Install (k) (DP5140) 1/4" X 43" 6FJX-6FJX hydraulic hose from top rear fitting of flow divider to tee in butt end of right front cylinder.
8. Install 4 (l) (DP5137) 1/4" X 25" 6FJX-6FJX hydraulic hose from both front cylinders to both rear cylinders. Rod end to rod end, butt end to butt end.

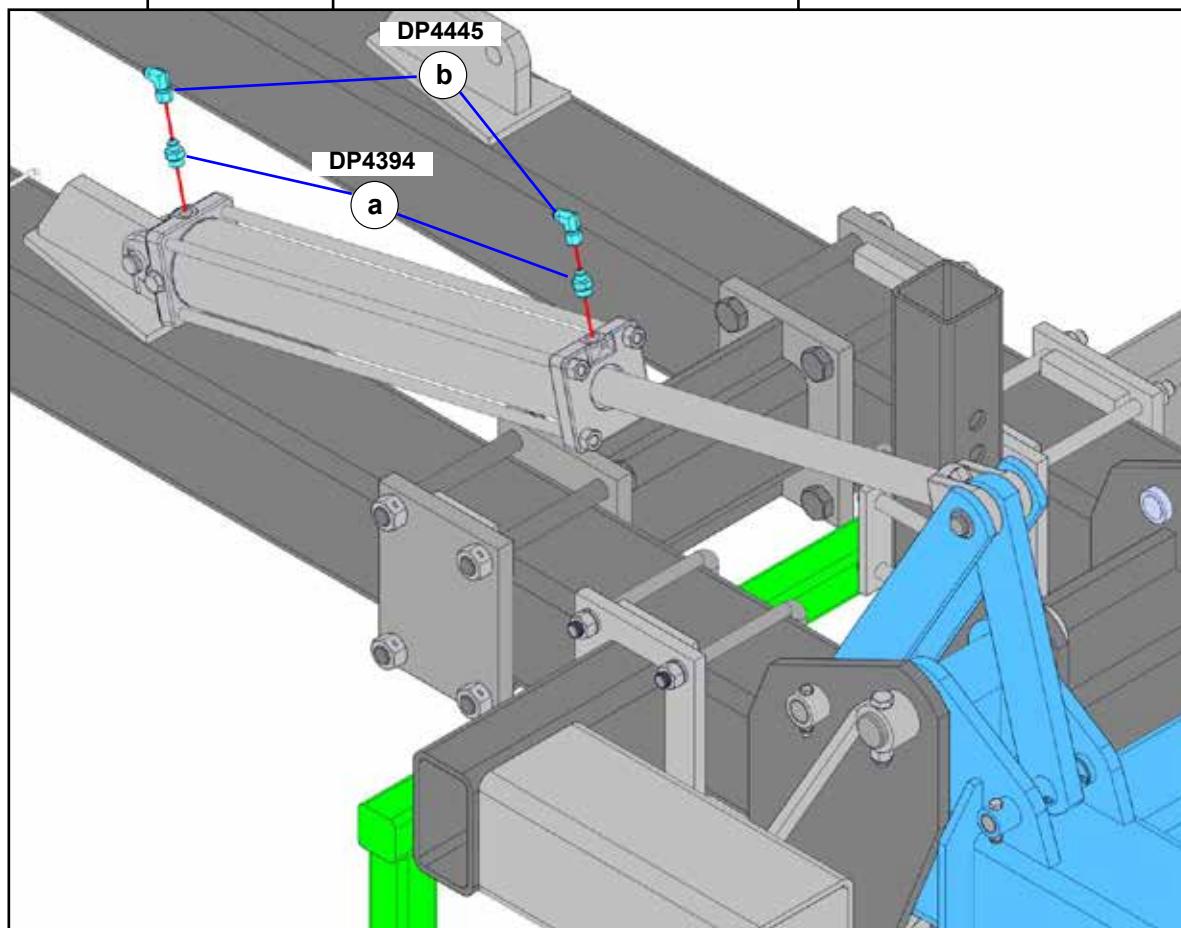
Assembly (PKG00224, Package, Galaxy Hydraulics, Secondary Fold 4 X 24 Cylinders)



**Mounting
secondary
fold
cylinders**

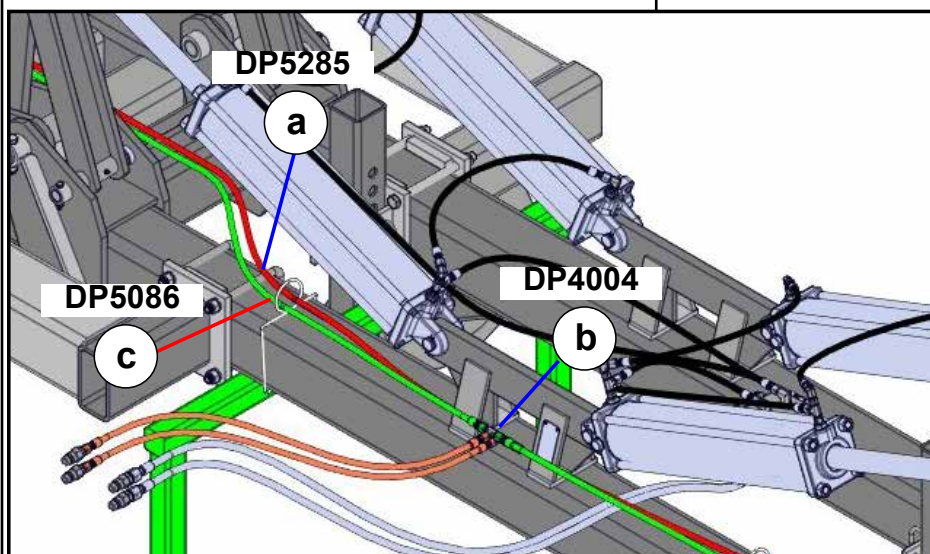
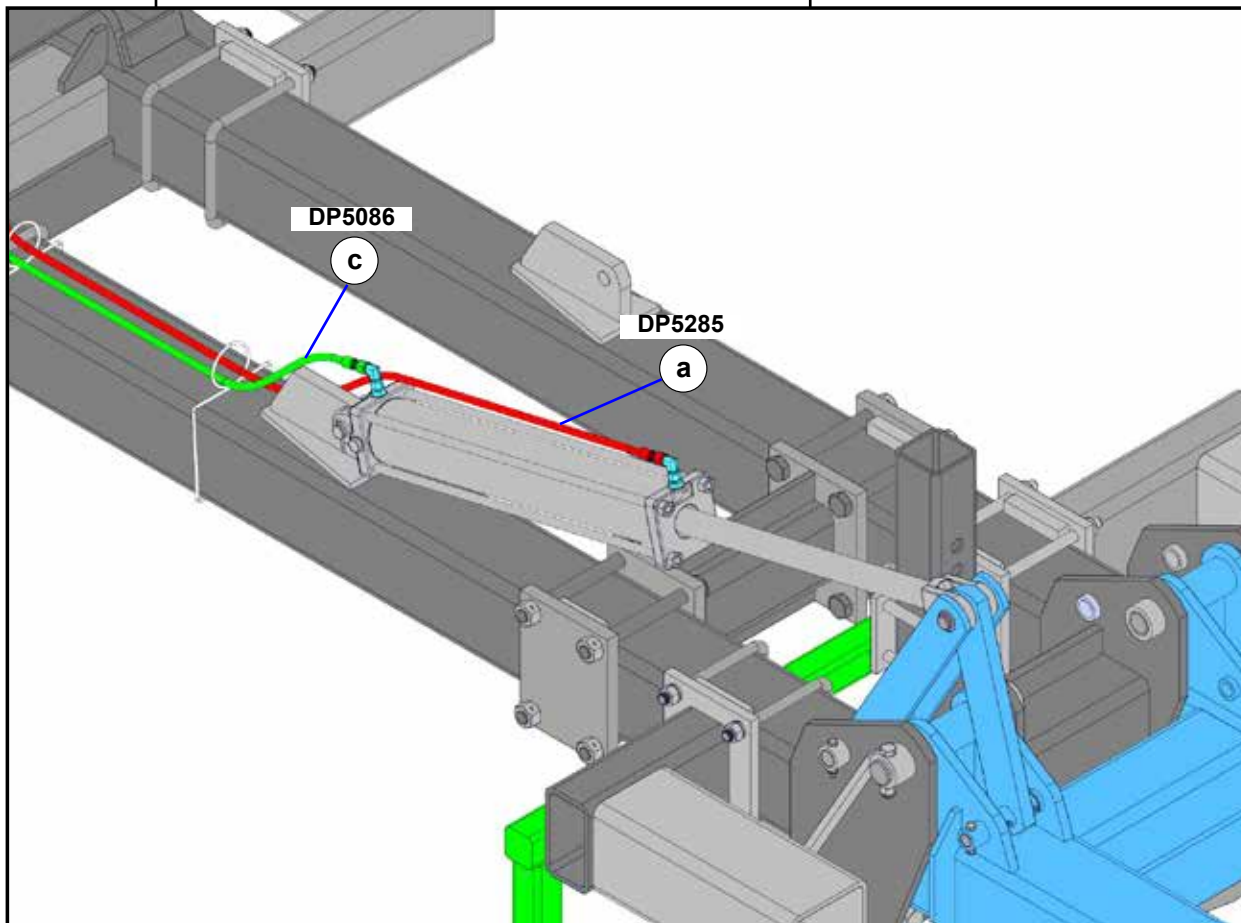
1. Attach 2 (a) (DP4248) 4 x 24 hydraulic cylinders to primary wing cylinder lug and extend rod to secondary wing linkage and secure

Assembly (PKG00224, Package, Galaxy Hydraulics, Secondary Fold 4 X 24 Cylinders)



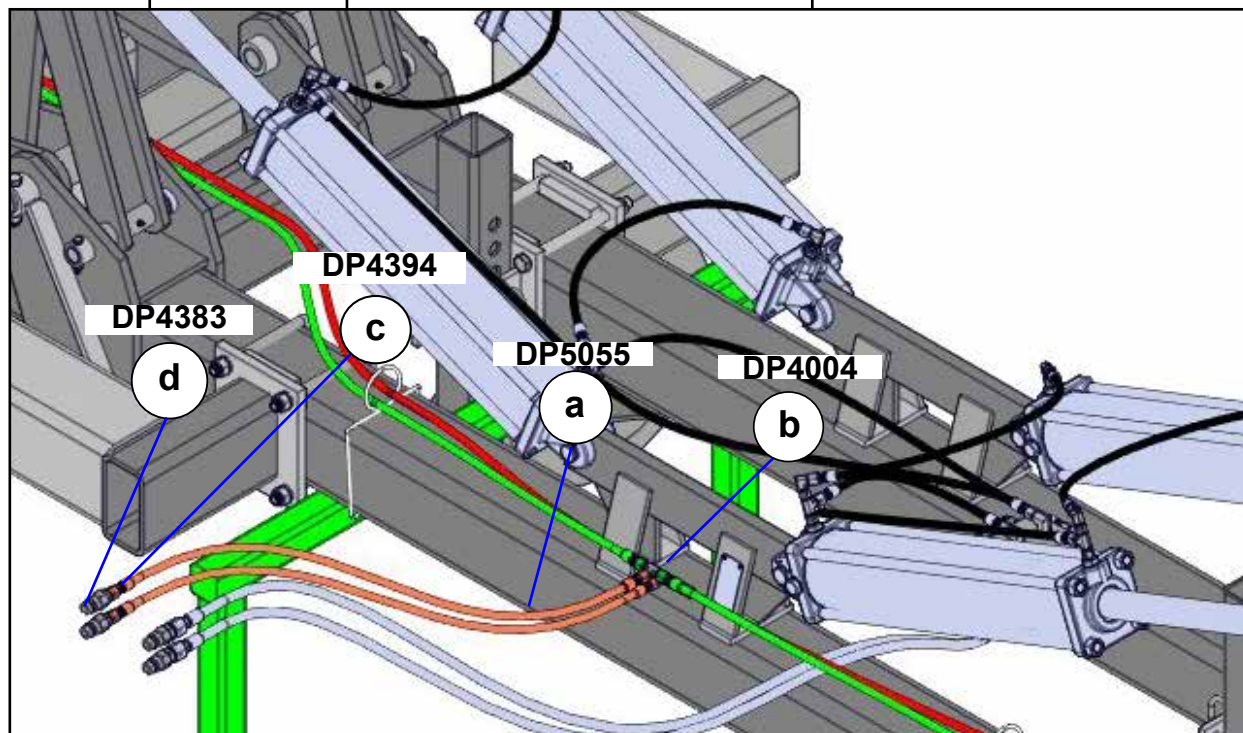
**Install fittings
Secondary
Fold**

1. Install (a) (DP4394) 8MSAE-6MJIC adapter in each top port of cylinders.
2. Install (b) (DP4445) Elbow 90 degree, 6MJIC-6FJX on all ports.



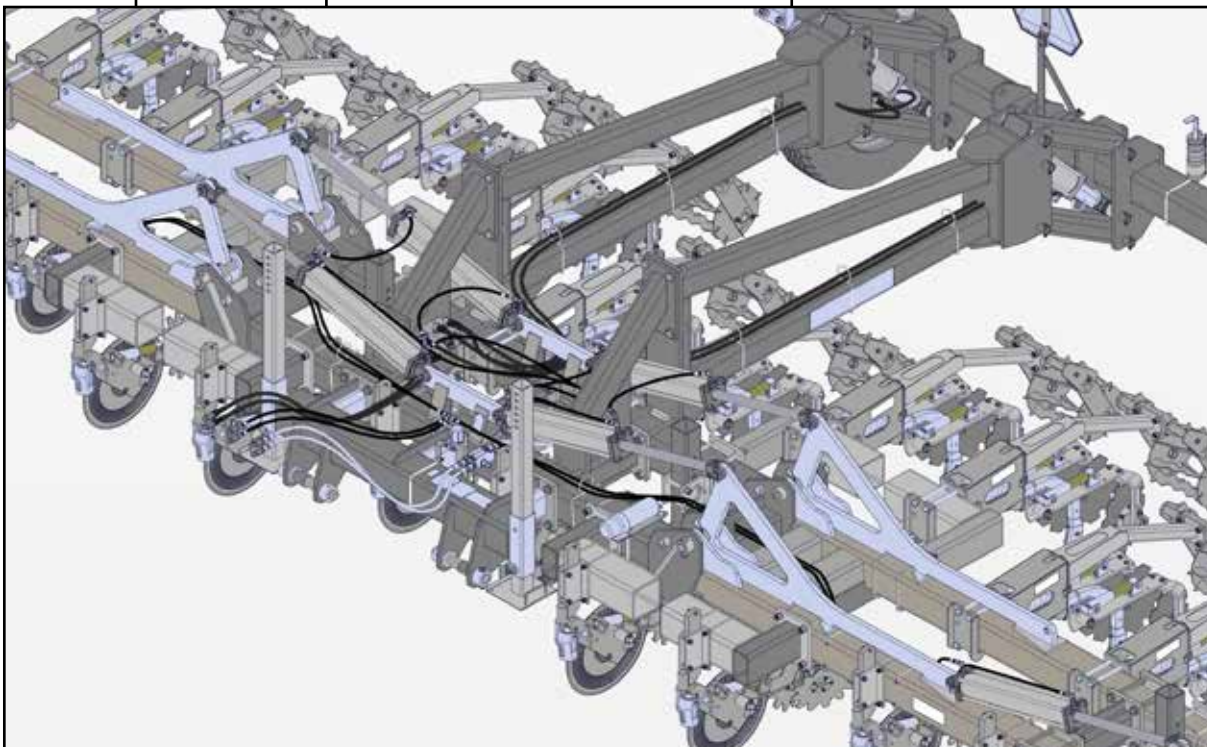
► Attaching Secondary wing hoses

1. Attach (a) (DP5285) 1/4" x 160" hydraulic hoses to rod end cylinders.
2. Extend to center of frame and connect hoses with (b) (DP4004) 6MJ-6MJ-6MJ tee.
3. Attach (c) (DP5086) 1/4" x 132" hoses to butt end of cylinders. Extend to center and connect hoses with (b) (DP4004) 6MJ-6MJ-6MJ tee.



► Attaching Secondary wing hoses

1. Attach 2 (a) (DP5055) 1/4" x 66" hydraulic hoses to (b) (DP4004) tee.
2. Attach 2 (c) (DP4394) adapter to (a). Install 2 (d) (DP4383) coupler to (c).



▶ Connecting hydraulic hoses

NOTE:

One set of 3/8" hoses supply oil to the primary fold cylinders. The other is for the lift assist.

▶ Charging cylinders



CAUTION:

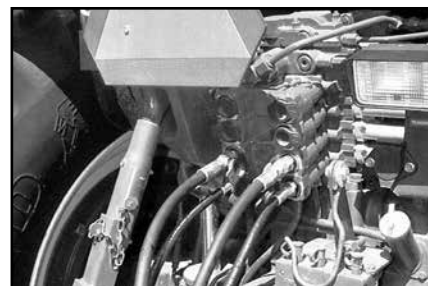
Always hook tool bar to tractor before filling oil lines



NOTE:

Charging a hydraulic system will remove oil from a tractor's hydraulic reservoir. Be sure to check tractor oil level after charging a new system

1. Connect the hydraulic hoses to the tractor remote couplers. **The 1/4" hoses supply oil to the secondary wing cylinders.** Mark hose pairs with paint or tape. Mark hoses so that they are plugged in correctly each time.
2. Hook implement to tractor. Connect the hydraulic lines to tractor ports.
3. Begin by holding the tractor remote lever in one direction until the cylinders are fully extended or retracted. Hold 1 minute to purge air from lines. Reverse the direction of the remote lever to charge the other side of the system. Hold 1 minute to purge air from lines. Continue process until cylinders are extending and retracting completely.



Generic example



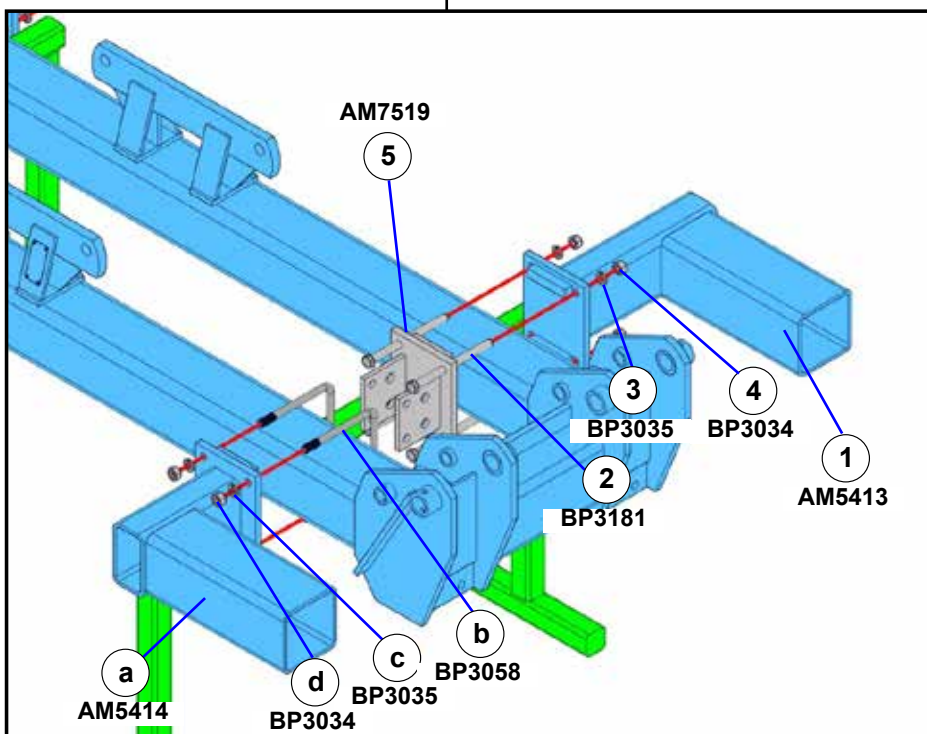
WARNING:

Hydraulic fluid escaping under pressure can have enough force to penetrate the skin. Hydraulic fluid may also infect a minor cut or opening in the skin. If injured by escaping fluid, see doctor at once. Serious infection or reaction can result if medical treatment is not given immediately. Make sure all connections are tight and that hoses and lines are in good condition before applying pressure to the system. Relieve all pressure before disconnecting the lines or performing other work on the hydraulic systems.

Assembly (Offset Stagger Brackets) Center Section

Offset
brackets
center

NOTE:
Consult
row spacing
pages for
offset
bracket
locations



AAM2176, 13 x 18, 7 x 7 offset stagger bracket with u-bolts.

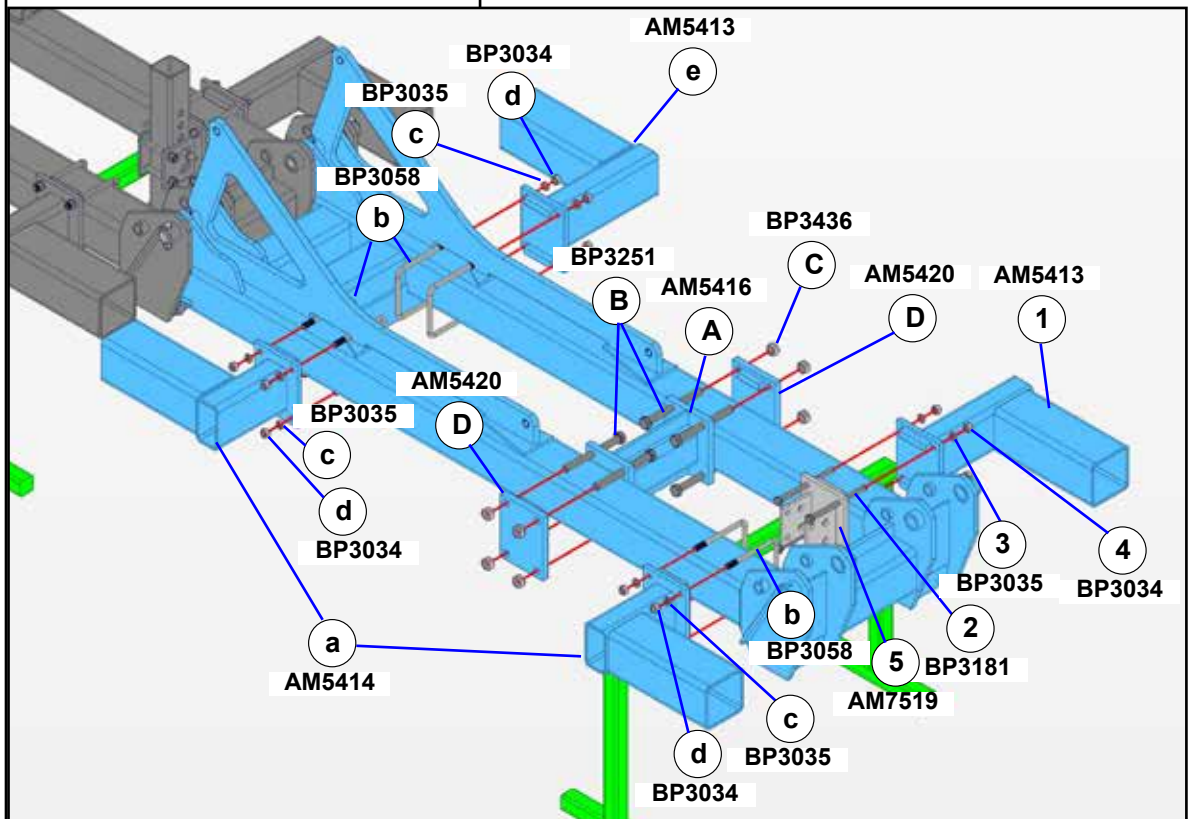
1. Mount (a) (AM5414) 13 x 18 offset stagger bracket with (b) (BP3058) 3/4" x 7"W X 9"L u-bolts. Secure with (c) (BP3035) 3/4" lock washers and (d) (BP3034) 3/4" hex nuts.

AAM2175, 19 x 18, 7 x 7 offset stagger bracket with bolts.

2. Mount (1) (AM5413) 19 x 18 offset stagger bracket and (5) (AM7519) gauge wheel bracket, with (2) (BP3181) 3/4" x 10 hex cap screws. Secure with (3) (BP3035) 3/4" lock washers and (4) (BP3034) 3/4" hex nuts.

► Offset brackets
Primary wings

NOTE:
Consult
row spacing
pages for
offset
bracket
locations



AAM2176, 13 x 18, 7 x 7 offset stagger bracket with u-bolts.

1. Mount 2 (a) (AM5414) 13 x 18 offset stagger bracket with (b) (BP3058) 3/4" x 7"W X 9"L u-bolts. Secure with (c) (BP3035) 3/4" lock washers and (d) (BP3034) 3/4" hex nuts.

AAM2175, 19 x 18, 7 x 7 offset stagger bracket with bolts.

2. Mount (1) (AM5413) 19 x 18 offset stagger bracket and (5) (AM7519) gauge wheel bracket, with (2) (BP3181) 3/4" x 10 hex cap screws. Secure with (3) (BP3035) 3/4" lock washers and (4) (BP3034) 3/4" hex nuts.

AAM2173, Brace, bolt-on frame support with hardware.

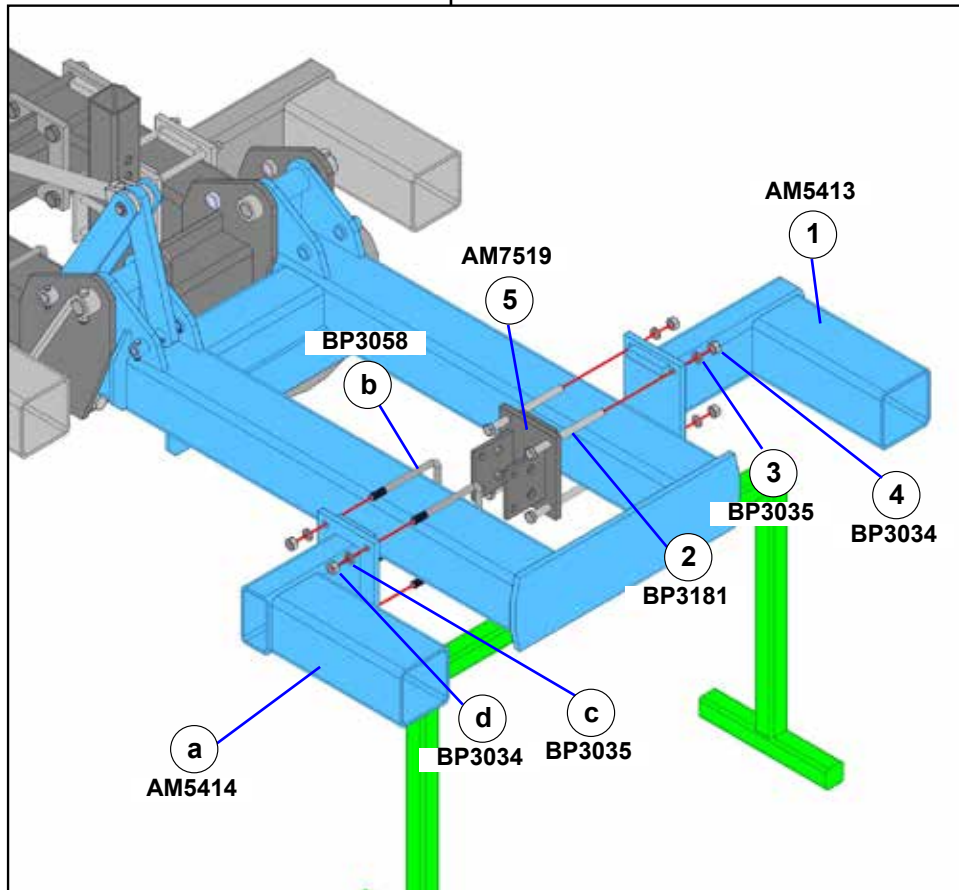
3. Mount (A) (AM5416) bolt-on frame support with (B) (BP3251) 1" x 10" bolts and (C) (BP3436) 1" hex lock nuts to (D) (AM5420) backing plates.

AAM2174, 19 x 18, 7 x 7 offset stagger bracket with u-bolts.

4. Mount (e) (AM5413) 19 x 18 offset stagger bracket with (b) (BP3058) 3/4" x 7"W X 9"L u-bolts. Secure with (c) (BP3035) 3/4" lock washers and (d) (BP3034) 3/4" hex nuts.

Offset brackets

NOTE:
Consult
row spacing
pages for
offset
bracket
locations



AAM2176, 13 x 18, 7 x 7 offset stagger bracket with u-bolts.

1. Mount (a) (AM5414) 13 x 18 offset stagger bracket with (b) (BP3058) 3/4" x 7"W X 9"L u-bolts. Secure with (c) (BP3035) 3/4" lock washers and (d) (BP3034) 3/4" hex nuts.

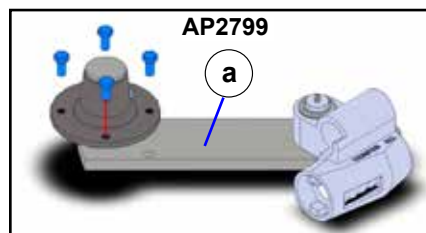
AAM2175, 19 x 18, 7 x 7 offset stagger bracket with bolts.

2. Mount (1) (AM5413) 19 x 18 offset stagger bracket and (5) (AM7519) gauge wheel bracket, with (2) (BP3181) 3/4" x 10 hex cap screws. Secure with (3) (BP3035) 3/4" lock washers and (4) (BP3034) 3/4" hex nuts.

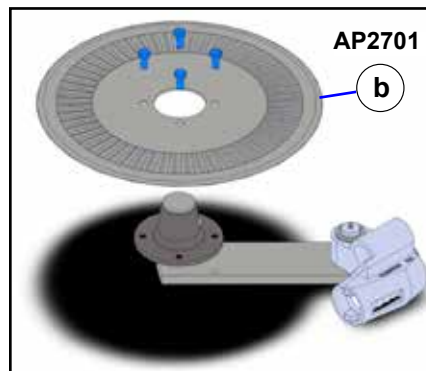
Coulter Assembly

► Preparing coulters for mounting

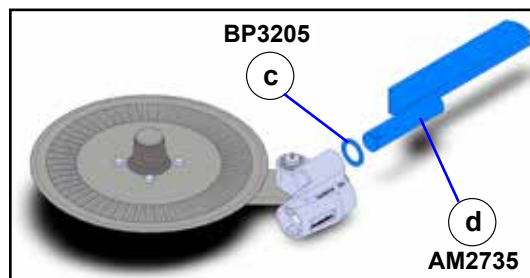
1. Remove hex cap screws from hub (a) (AM2799) coulters arm with hub and knee casting assembly.



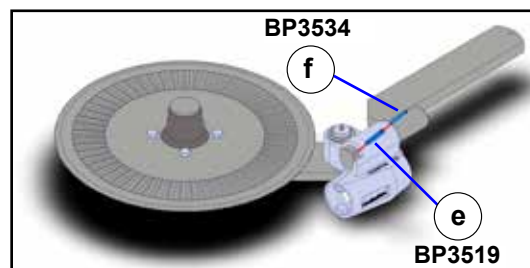
2. Place (b) (AP2701) 20" fluted coulters blade on coulters assembly and replace hex cap screws.



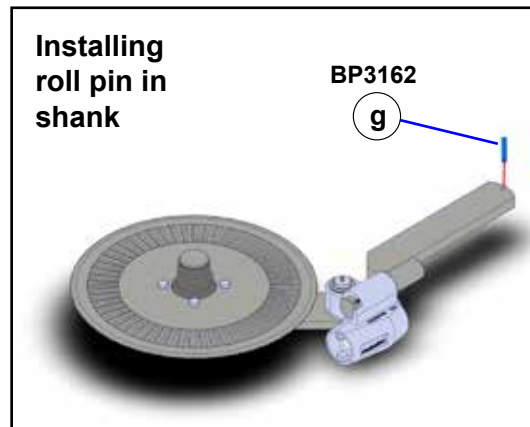
3. Install (c) (BP3205) 2-1/2" OD x 1-3/4" ID machinery bushing over (d) (AM2735) 16" coulters shank weldment.



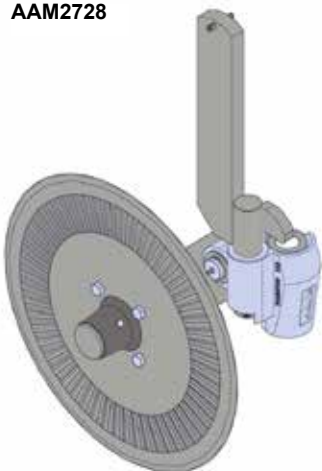
4. Insert the 16" coulters shank into coulters assembly. Start (e) (BP3519) 3/8" x 2-1/2" roll pin in base of coulters shank. Insert the (f) (BP3534) 7/32" x 2-1/2" roll pin in the end of the 3/8" roll pin and drive both pins together. Leave an equal amount of pin on both sides of the shank.



5. Install the (g) (BP3162) 3/8" x 2" roll pin through the shank weldment top hole.



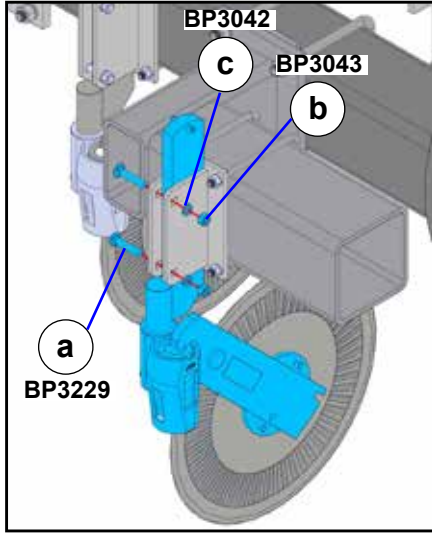
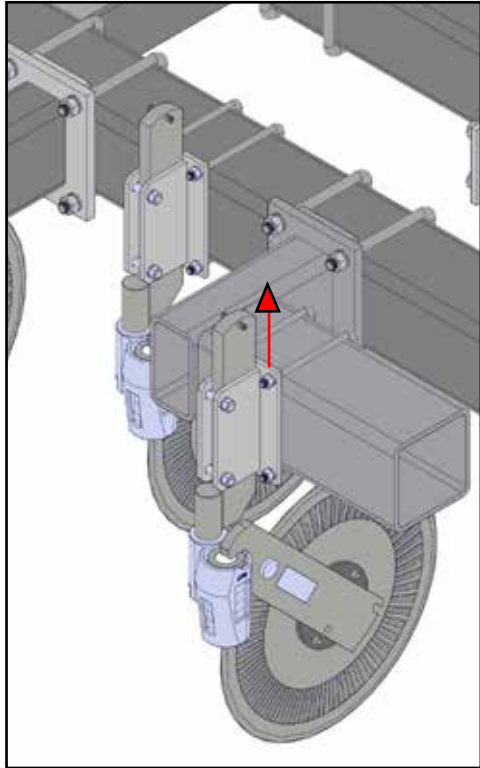
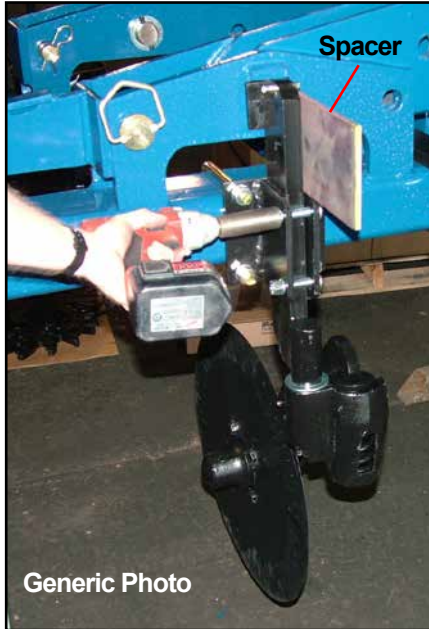
AAM2728



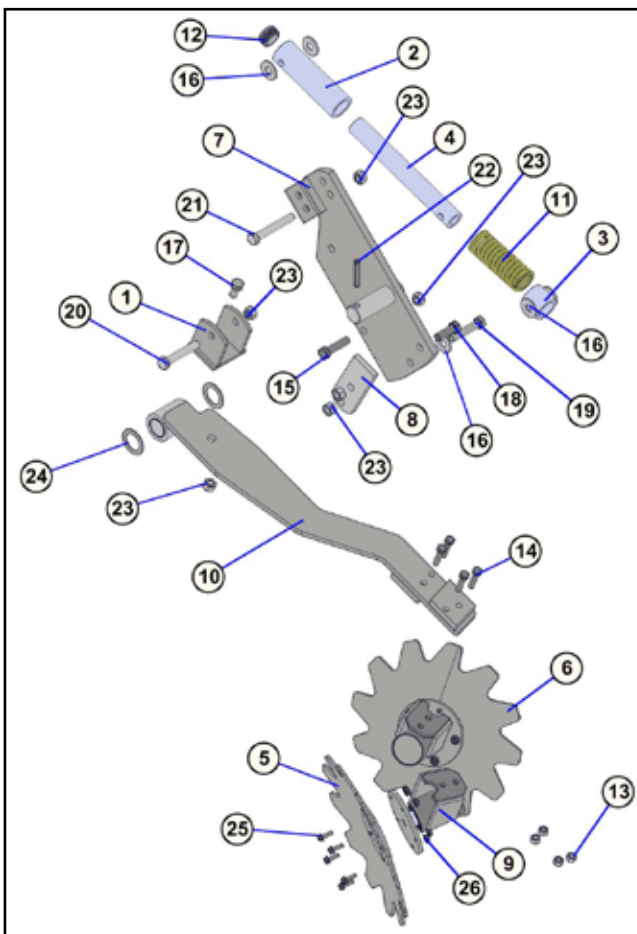
AAM2728
Super 1200 coulters 1 row

Assembly (Mounting Coulters)



Task	Procedures	Illustrations
Mounting coulters	<ol style="list-style-type: none"> 1. Insert coulters shank assembly into the mounting. 2. Insert the (a) (BP3229) 1/2" - 13 x 2-1/2" carriage bolt into top hole of bracket. Push coulters shank assembly back into the bracket and insert the bottom carriage bolt. Place (b) (BP3043) 1/2" lock washer and (c) (BP3042) 1/2"-13 hex nut on each carriage bolt. Do not tighten at this point. 3. Raise coulters shank assembly in bracket and place a 3" spacer between the roll pin and the top of the bracket. Tighten the 1/2" hex nuts. <i>This height is a starting point.</i> 	   <p>Generic Photo</p>

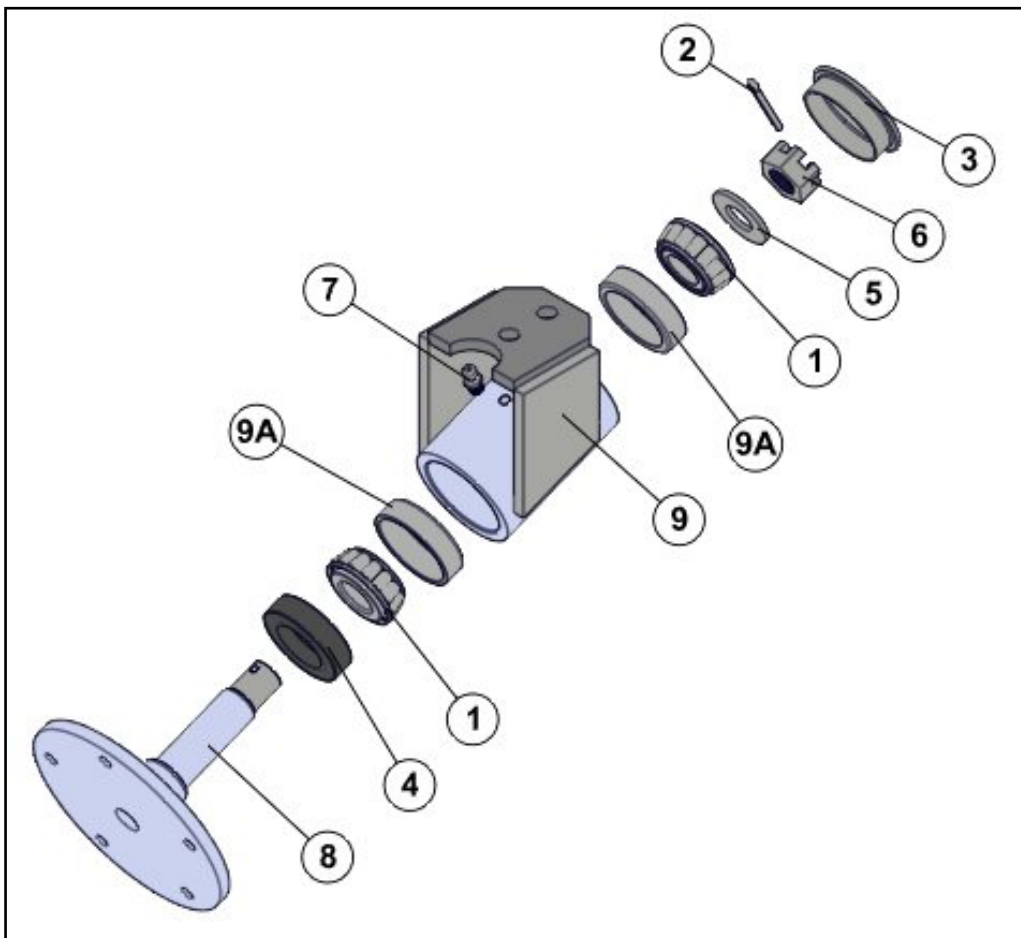
70210646 StripTill Residue Manager



► 70210646 STRIPTILL RESIDUE MANAGER, 1 ROW

BOM ID	Qty	Item No	Description
1	1	AM2489	CLEVIS, SEALER SPRING, LOWER
2	1	AM2490	TUBE, UPPER SPRING
3	1	AM2491	BUSHING, SPRING COLLAR
4	1	AM2492	TUBE, SPRING GUIDE
5	1	AM7662	RESIDUE MANAGER BLADE, LEFT HAND
6	1	AM7663	RESIDUE MANAGER BLADE, RIGHT HAND
7	1	AM7667	BRACKET, PIVOT ARM
8	1	AM7669	BRACKET, ARM STOP, RESIDUE MANAGER
9	2	AM7670	BLADE MOUNTING, RESIDUE MANAGER
10	1	AM7671	MOUNT ARM WITH PIVOT TUBE
11	1	AP2997W	SPRING, 1.75" OD X 1.313" ID X 6.00" OAL
12	1	AP3116	TUBE PLUG
13	4	BP3003	NUT, HEX LOCK, 3/8"-16, GRADE 2, PLATED
14	4	BP3005	HEX CAP SCREW, 3/8"-16 X 1-1/2", GRADE 5, PLATED
15	1	BP3041	HEX CAP SCREW, 1/2"-13 X 2", GRADE 5, PLATED
16	5	BP3050	WASHER, FLAT, 1/2", PLATED
17	1	BP3125	HEX CAP SCREW, 1/2"-13 X 1", GRADE 5, PLATED
18	1	BP3126	HEX CAP SCREW, 1/2"-13 X 1-1/2", GRADE 5, PLATED
19	1	BP3128	HEX CAP SCREW, 1/2"-13 X 2-1/2", GRADE 5, PLATED
20	1	BP3129	HEX CAP SCREW, 1/2"-13 X 3", GRADE 5, PLATED
21	1	BP3130	HEX CAP SCREW, 1/2"-13 X 3-1/2", GRADE 5, PLATED
22	1	BP3162	PIN, ROLL, 3/8" X 2", PLATED
23	6	BP3244	NUT, HEX LOCK, 1/2"-13, PLATED
24	2	BP3249	MACHINERY BUSHING, 1-7/8" OD X 1-1/4" ID, 14 GAUGE, PLATED
25	10	BP3366	HEX FLANGE BOLT, 1/4"-20 X 3/4", GRADE 8, PLATED
26	10	BP3367	NUT, HEX FLANGE, 1/4"-20, SERRATED, GRADE 2, PLATED

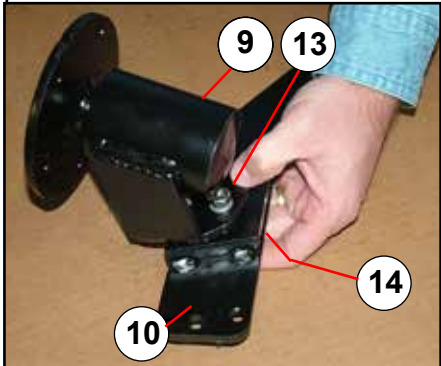
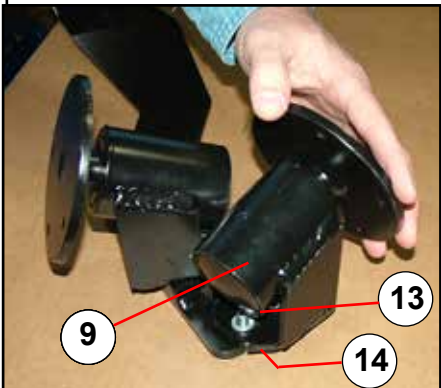

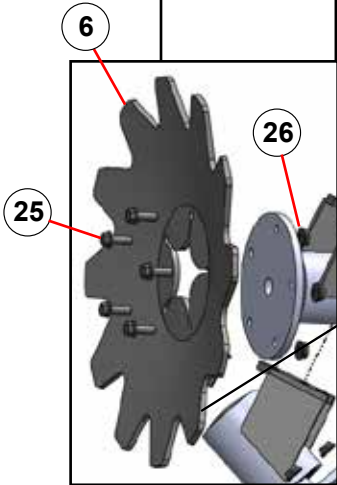
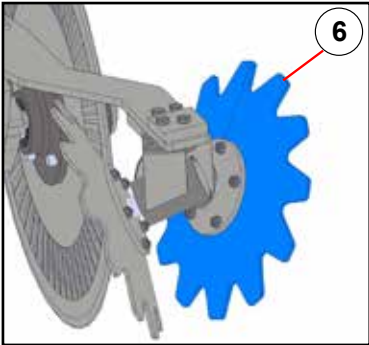

AM7670 Blade Mounting Assembly



► AM7670 BLADE MOUNTING ASSEMBLY

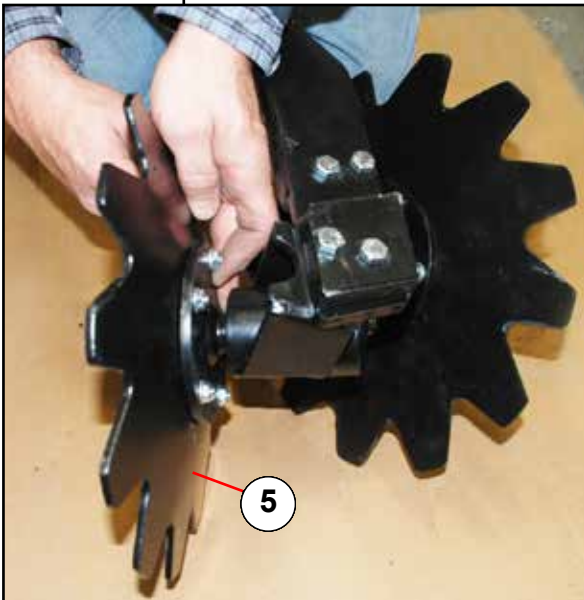
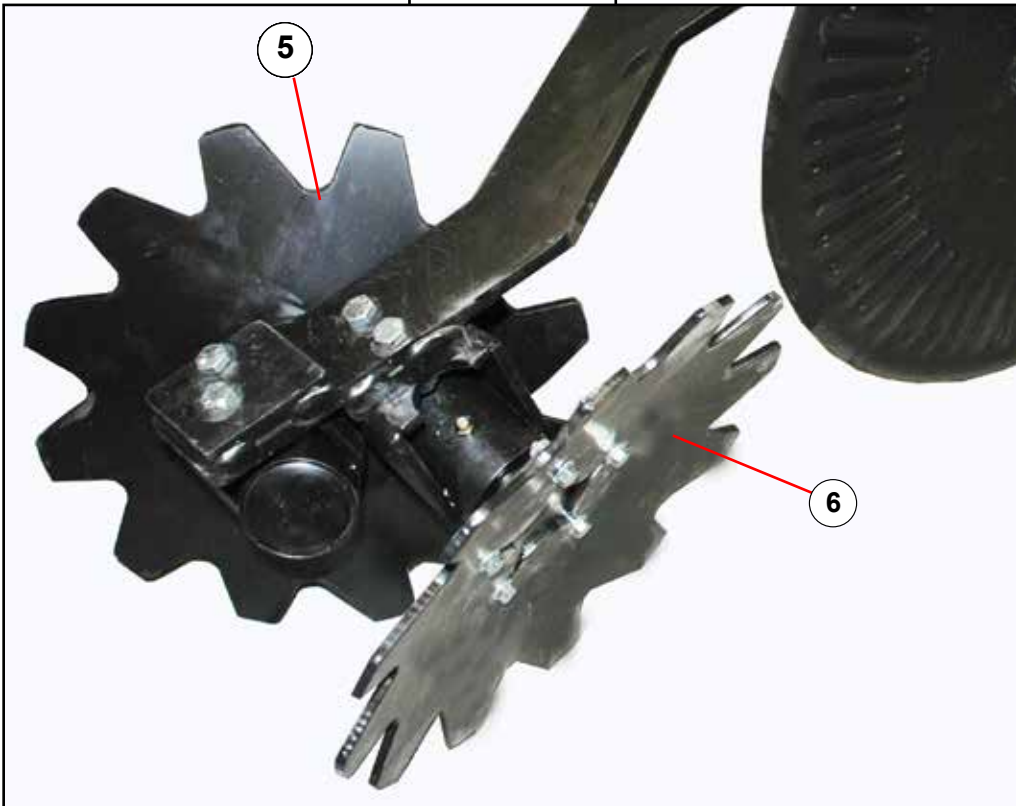
BOM ID	Qty	Item No	Description
1	2	AP2024	BEARING CONE, LM 11949
2	1	AP2425	PIN, COTTER, 1/8" X 1"
3	1	AP2729	DUST CAP
4	1	AP2742	GREASE SEAL, 10174VB
5	1	AP2743	SPINDLE WASHERS
6	1	AP2744	NUT, SPINDLE, 5/8"-18
7	1	BP3072	GREASE ZERK, 1/4"-28
8	1	EM3710	WELDMENT, BLADE MOUNTING
9	1	EM6659	WELDMENT, MOUNTING WITH CUPS
9A	2	AP2075	BEARING CUP, LM 11910



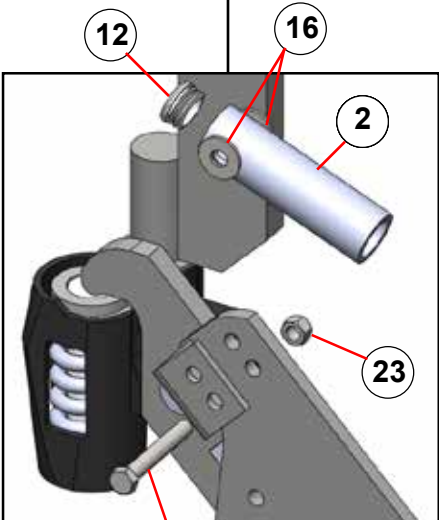

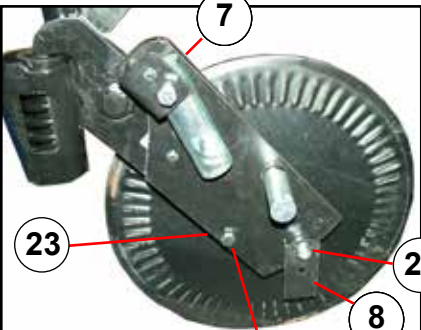
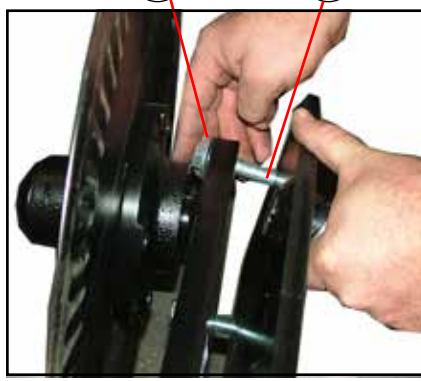
Assembly (StripTill Residue Manager)

	Task	Procedures	Illustrations
▶	Mounting residue manager blade assembly	1. Place (10) (AM7671) mounting arm upside down and install (9) (AM7670) blade mount on the raised weldment and insert two (14) (BP3005) 3/8" x 1-1/2" from the top. Place (13) (BP3003) 3/8" hex lock nuts on hex cap screws.	
▶	NOTE: Right-hand and left-hand as viewed from the rear	2. Install (9) (AM7670) blade mount on lower weldment and insert two (14) (BP3005) 3/8" x 1-1/2" from the top. Place (13) (BP3003) 3/8" hex lock nuts on hex cap screws.	
		3. Tighten all four 3/8" hex lock nuts on the blade mounts.	
▶	Mounting residue manager blades	4. Attach (6) (AM7663) right-hand blade to hub on the raised blade mount with five (25) (BP3366) 1/4" x 3/4" hex flange bolts and (26) (BP3367) 1/4" hex flange nuts serrated.	
			
			

Assembly (StripTill Residue Manager)

► Mounting residue manager blades

Task	Procedures	Illustrations
6.	Attach (5) (AM7662) left-hand blade to hub on the raised blade mount with five (25) (BP3366) 1/4" x 3/4" hex flange bolts and (26) (BP3367) 1/4" hex flange nuts serrated.	
		

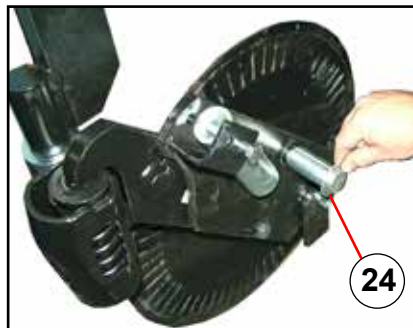
	Task	Procedures	Illustrations
<p>▶ Mounting spring clevis</p>		<p>8. Attach (1) (AM2489) lower sealer spring clevis with (17) (BP3125) 1/2" x 1" hex cap screw and (23) (BP3244) 1/2" hex lock nut. NOTE: the hole is off centered. Position long edge toward the blades.</p> <p>9. Tighten 1/2" hex nut.</p>	 
<p>▶ Attaching pivot arm bracket</p>	 	<p>10. Insert (12) (AP3116) 1-5/16" ID Black tube plug into end of (2) (AM 2490) upper spring tube. Place (16) (BP3050) 1/2" flat washers on both sides of (2). Insert (21) (BP3130) 1/2" x 3-1/2" hex cap screw through washers and tube. Secure with (23) (BP3244) 1/2" hex lock nut.</p> <p>Do not over tighten. Allow tubes to pivot.</p> <p>Attach (7) (AM7667) pivot arm spring mounting bracket on coulter arm with (15) (BP3041) 1/2" x 2" hex cap screw. Place (23) (BP3244) on hex cap screw on 1/2" hex nut.</p> <p>11. Place (16) (BP3050) 1/2" flat washer on (19) (BP3128) 1/2" x 2-1/2" hex cap screw. Insert into slot at the bottom of coulter arm. Position pivot arm spring mounting next to coulter arm over (19). Place (8) (AM7669) arm stop bracket on (19). Install (23) (BP3244) 1/2" hex lock nut. Tighten the hex lock nut on (15). Tighten the lock nut on (19) until snug. The arm stop must rotate down so the spring assembly can be installed before (18) (BP3126) 1/2" x 1-1/2" hex cap screw is installed.</p>	 

StripTill Residue Manager

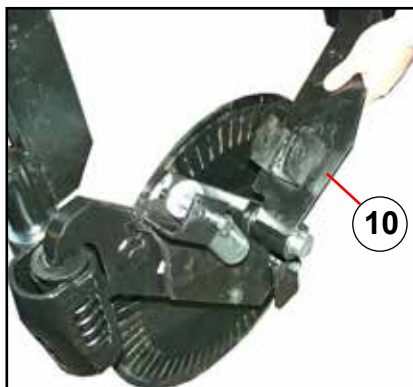


Attaching bolt on blade arm mount

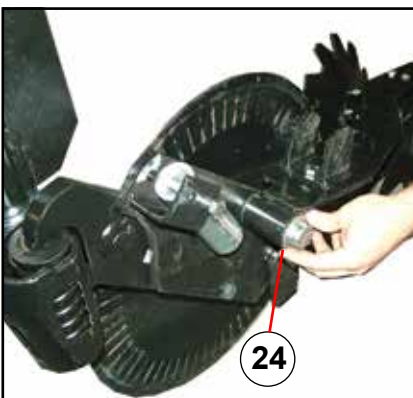
12. Place (24) (BP3249) 1-7/8" OD x 1-1/4" ID machinery bushing on pivot weldment.



13. Slide (10) (AM7671) bolt on blade arm mount on pivot arm.



14. Place (24) (BP3249) 1-7/8" OD x 1-1/4" ID machinery bushing on pivot weldment.



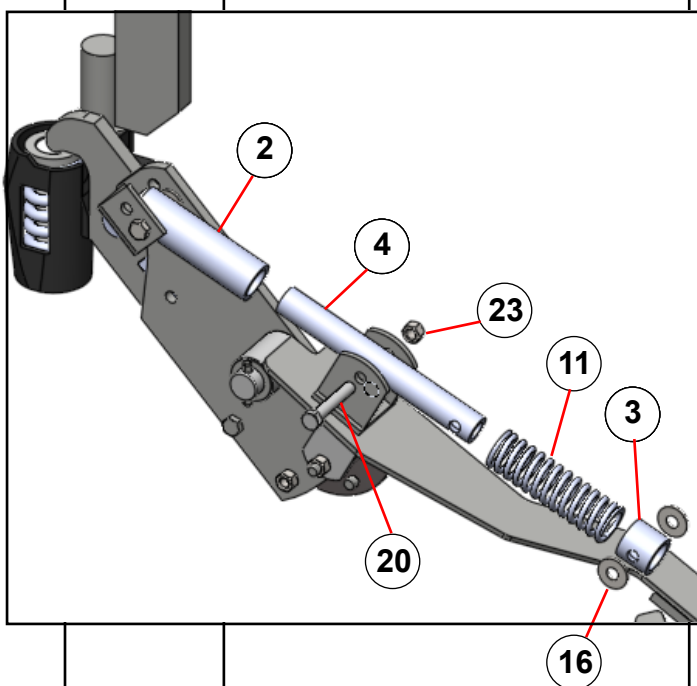
15. Secure arm to weldment with (22) (BP3162) 3/8" roll pin.





Mounting spring assembly

16. Insert (4) (AM2492) spring guide tube into (2) (AM2490) upper spring tube. Place (11) (AP2997) spring over guide.
17. Place (3) (AM2491) spring collar bushing over guide.
18. Raise arm insert (20) (BP3129) 1/2" x 3" hex cap screw through (16) (BP3050) 1/2" washers and (3) spring collar bushing and second washer. Secure with (23) (BP3244) 1/2" hex lock nut. *Do not over tighten. Allow tubes to pivot.*

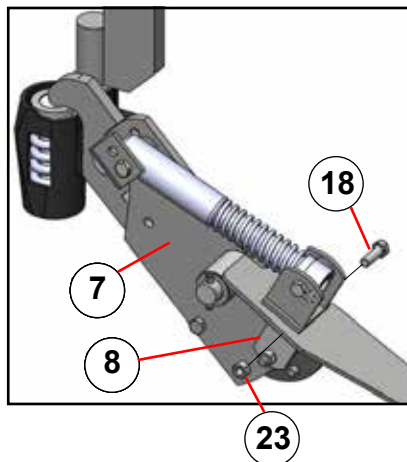


StripTill Residue Manager



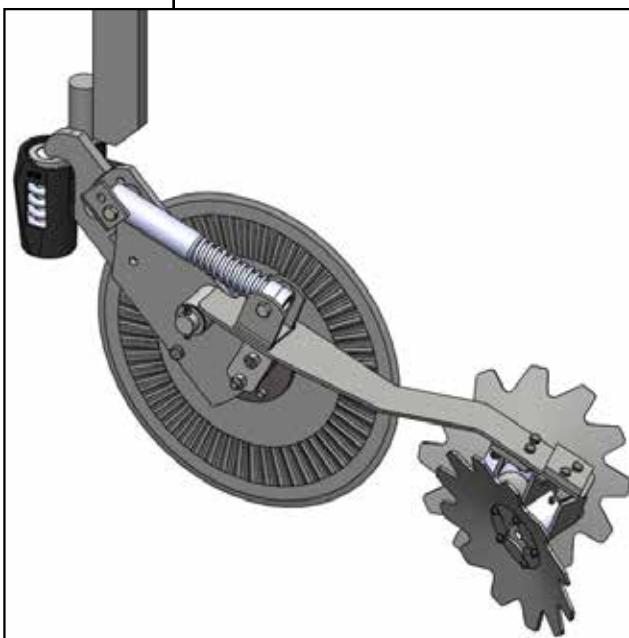
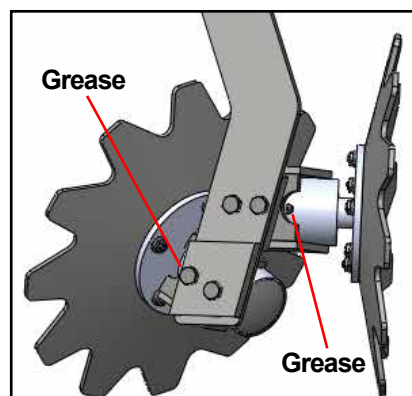
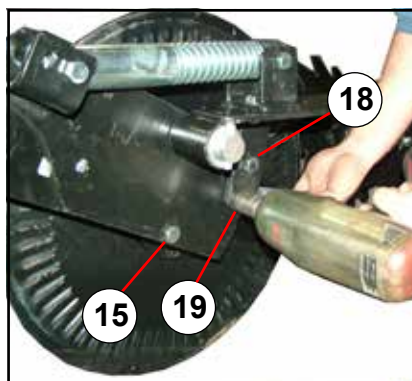
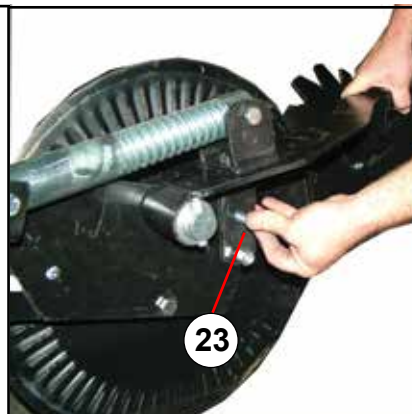
Securing arm stop

19. Rotate arm stop bracket (8) under residue manager arm and Insert (18) (BP3126) 1/2" x 1-1/2" hex cap screw from the hub side through coultter arm, (7) and (8) arm stop bracket. Secure with (23) (BP3244) 1/2" hex lock nut.

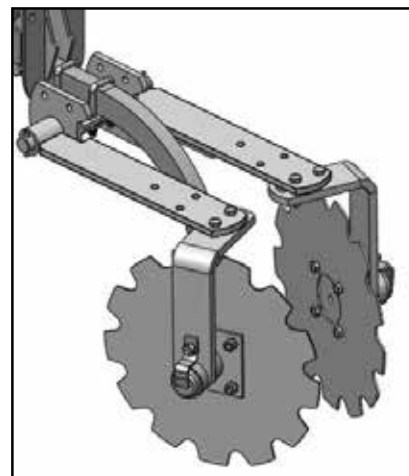
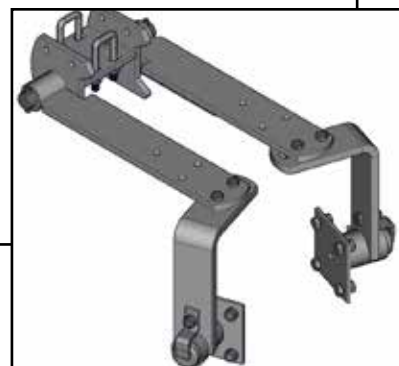
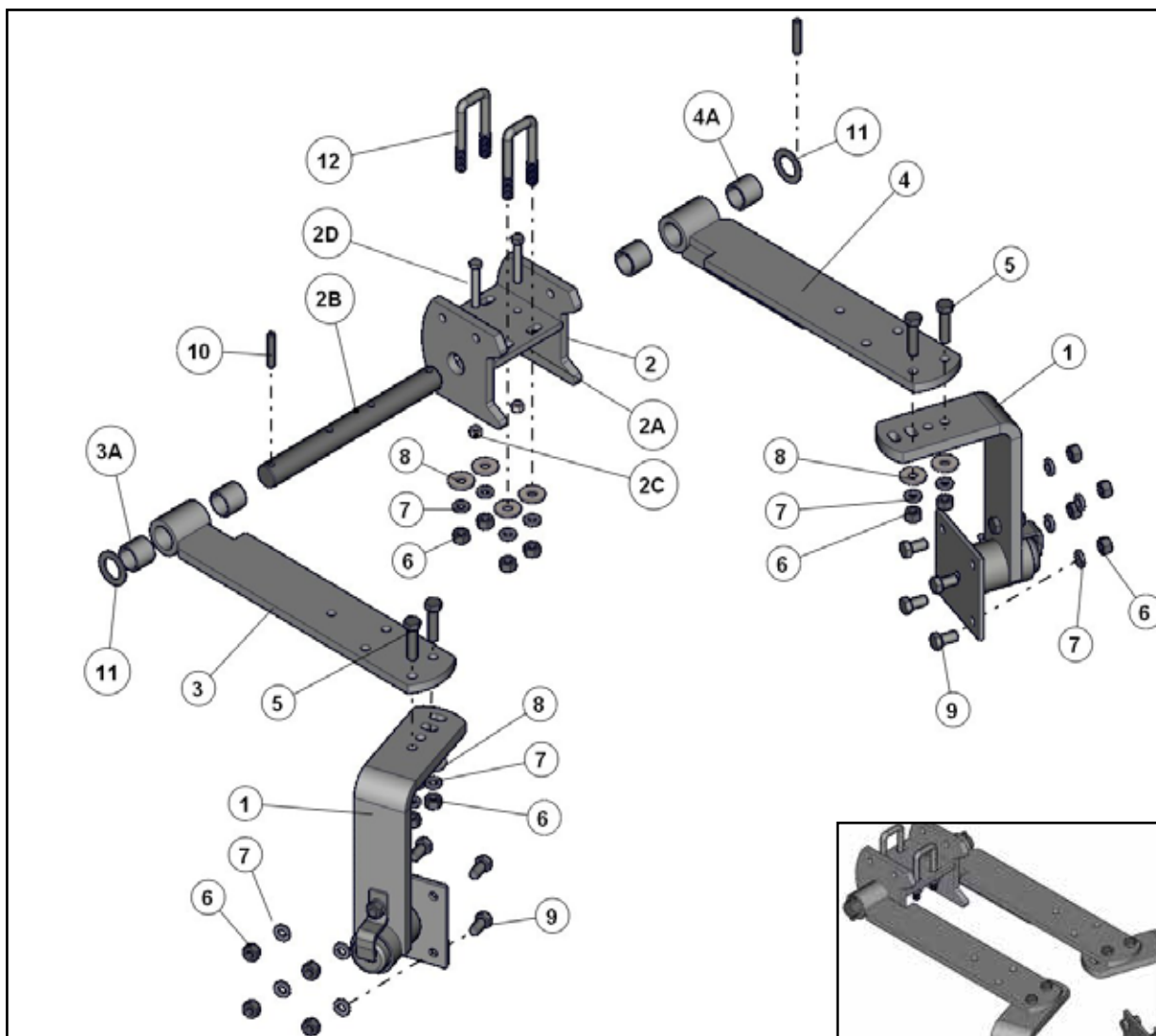


20. Tighten the 1/2" hex lock nuts on (15) (18) and (19) on (8) pivot arm bracket.

21. Grease hubs.



SealPro II (AAM2856) Disc Sealer EdgeBent Shank

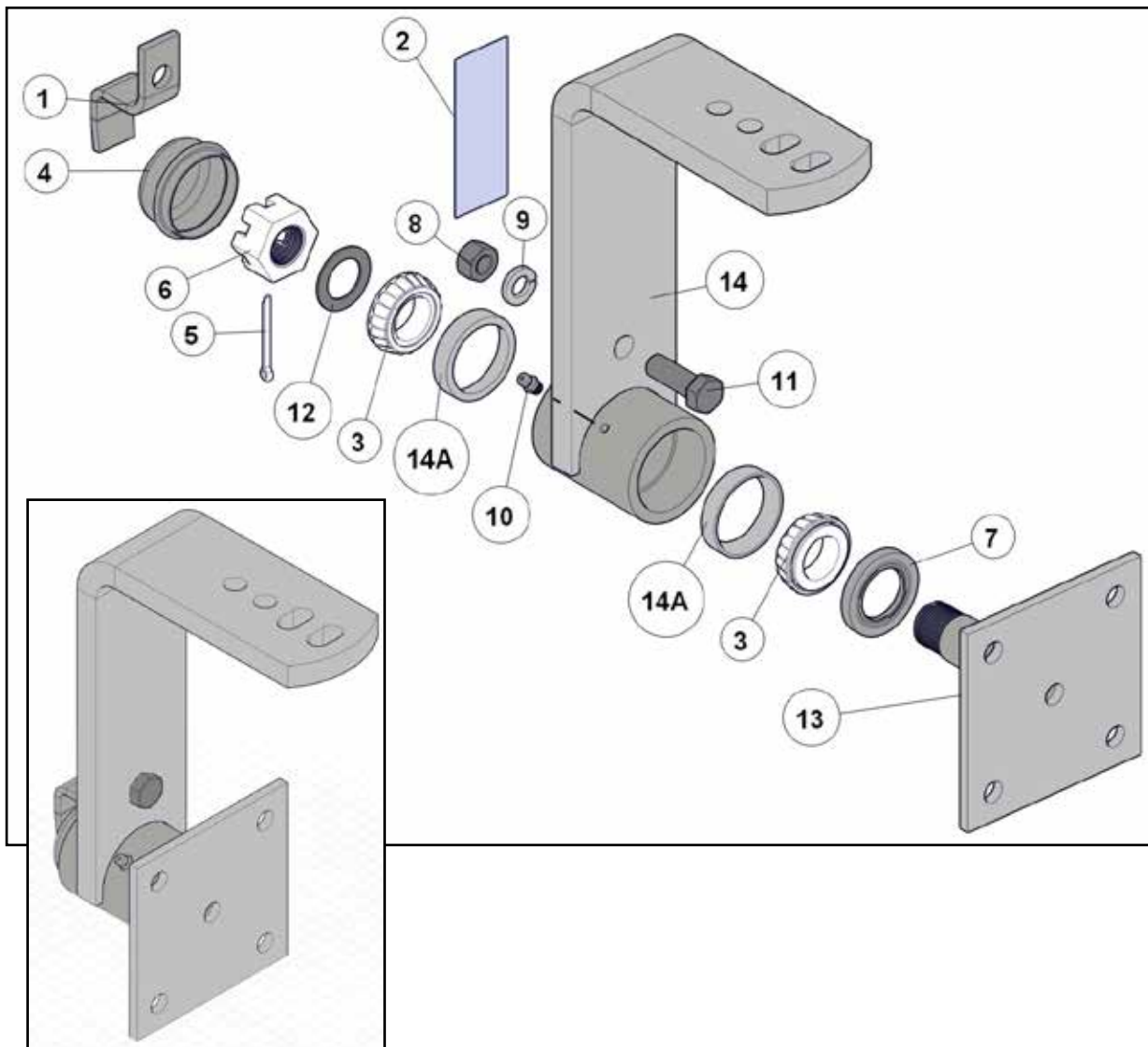


► **AAM2856 SEALPRO II, EDGE BENT SHANK, 1 ROW**

BOM ID	Qty	Item No	Description
1	2	AM2481	ASSEMBLY, SEALER HANGER WITH BLADE MOUNTING
2	1	AM2485	ASSEMBLY, SEALER MOUNTING BRACKET
2A	1	AM2484	BRACKET, SEALER MOUNTING
2B	1	BM3643	PIN, 1-1/4" X 12-1/2" OAL, SEALER SHAFT
2C	2	BP3003	NUT, HEX LOCK, 3/8"-16, GRADE 2, PLATED
2D	2	BP3096	HEX CAP SCREW, 3/8"-16 X 2-1/2", GRADE 5, PLATED
3	1	AM2486	SEALER ARM, LEFT-HAND
3A	2	AP3115	BUSHING, SELF-LUBRICATED 1-1/4" X 1-1/4" OAL
4	1	AM2487	SEALER ARM, RIGHT-HAND
4A	2	AP3115	BUSHING, SELF-LUBRICATED 1-1/4" X 1-1/4" OAL
5	4	BP3041	HEX CAP SCREW, 1/2"-13 X 2", GRADE 5, PLATED
6	16	BP3042	NUT, HEX, 1/2"-13, GRADE 2, PLATED
7	16	BP3043	WASHER, LOCK, 1/2", PLATED
8	8	BP3050	WASHER, FLAT, 1/2", PLATED
9	8	BP3125	HEX CAP SCREW, 1/2"-13 X 1", GRADE 5, PLATED
10	2	BP3162	PIN, ROLL, 3/8" X 2", PLATED
11	2	BP3249	MACHINERY BUSHING, 1-7/8" OD X 1-1/4" ID, 14 GAUGE
12	2	BP3314	U-BOLT, 1/2"-13 X 1-1/4" W X 3-3/4" L, PLATED

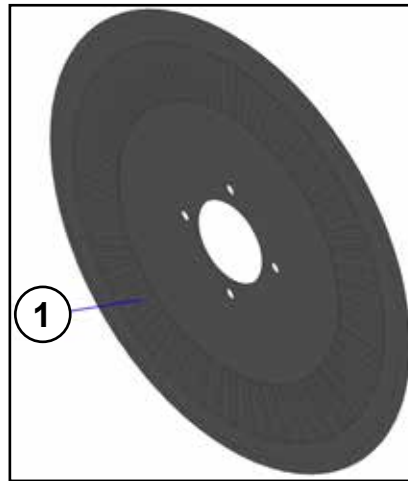
Notched Blade Optional

SealPro II (AM2481) Assembly Sealer Hanger With Blade Mounting



► AM2481 ASSEMBLY, SEALER HANGER WITH BLADE MOUNTING

BOM ID	Qty	Item No	Description
1	1	AM2482	HUB CAP RETAINER
2	1	AP2216	DECAL, BLU-JET, SMALL, 1-1/2" X 4"
3	2	AP2377	BEARING CONE, L44649
4	1	AP2380	HUB CAP
5	1	AP2426	PIN, COTTER, 5/32" X 1-3/4"
6	1	AP2811	NUT, SPINDLE, 1"-14
7	1	AP4209	GREASE SEAL, DOUBLE RUBBER RINGS
8	1	BP3042	NUT, HEX, 1/2"-13, GRADE 2, PLATED
9	1	BP3043	WASHER, LOCK, 1/2", PLATED
10	1	BP3072	GREASE ZERK, 1/4"-28
11	1	BP3126	HEX CAP SCREW, 1/2"-13 X 1-1/2", GRADE 5, PLATED
12	1	BP3739	MACHINERY BUSHING, 1-1/2" OD X 1" ID X 14 GAUGE
13	1	EM3245	BLADE MOUNTING
14	1	EM3246	SEALER HANGER
14A	2	AP2376	BEARING CUP, L44610



**Coulter Blade
Fluted Blade 20\"/>**

SealPro (Disc Sealer) Blade Options



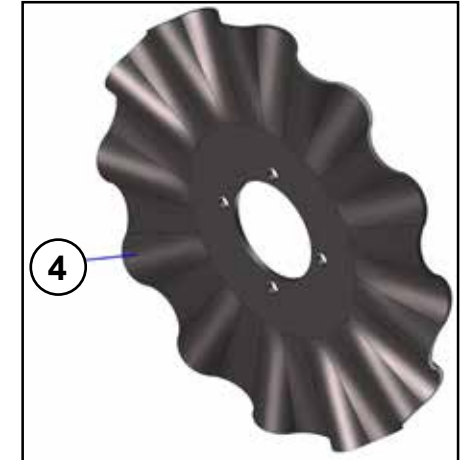
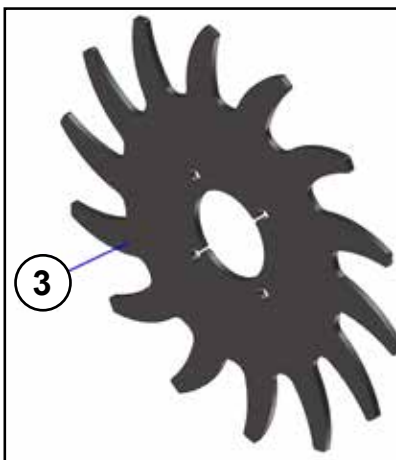
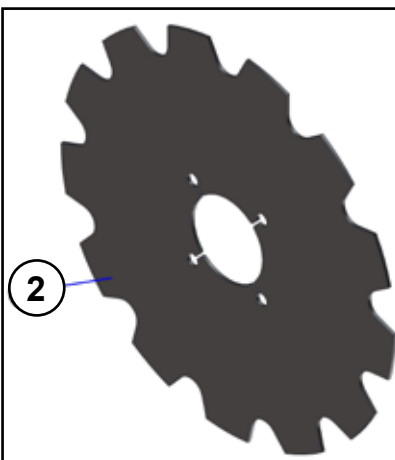
**AM2479
17\"/>**



**AM2473
18\"/>**

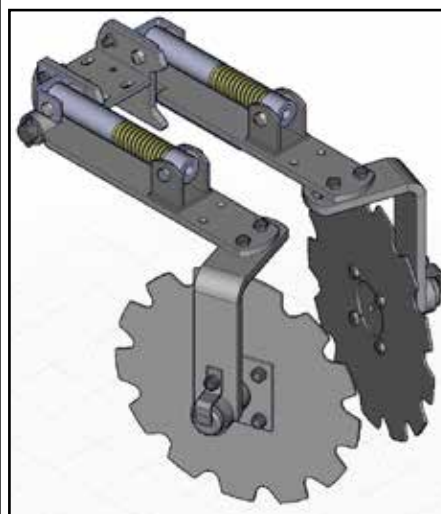
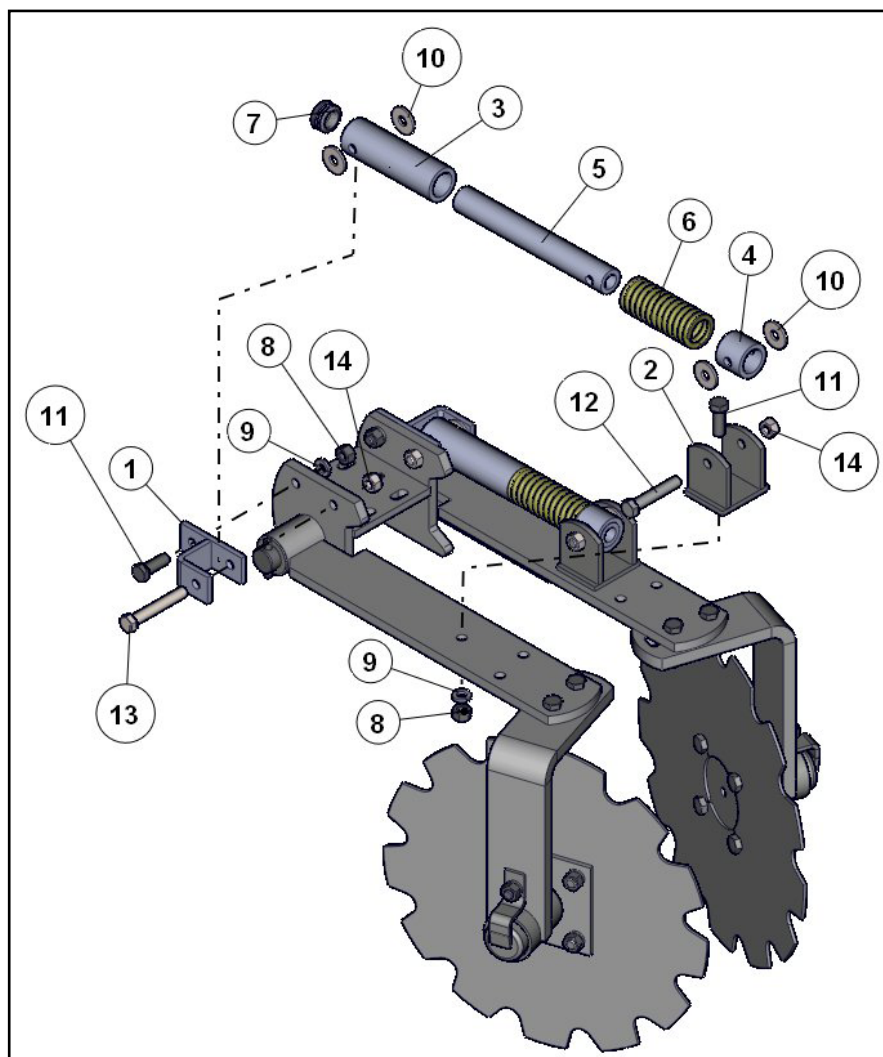


**AP2728
17\"/>**



BOM ID	Qty	Item No	Description
1	1	AP2701	COULTER BLADE 20" FLUTED
2	1	AM2479-1	NOTCHED BLADE, 10GA X 17" DIA
3	1	AM2473	WHEEL, HOE, 1/4" X 17-1/2"
4	1	AP2728	3/4" WAVE 17" COULTER BLADE WT17157MLWR

SealPro II (AAM2857) Assembly, Optional Sealer Spring Add-on Kit 1 Row

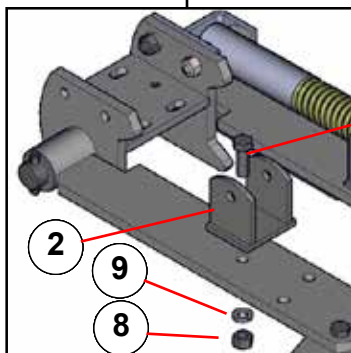


► AAM2857 OPTIONAL SEALER SPRING ADD-ON KIT 1 ROW

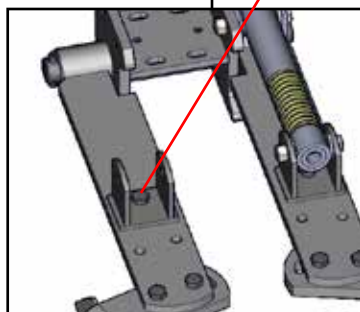
BOM ID	Qty	Item No	Description
1	2	AM2488	CLEVIS, SEALER SPRING, UPPER
2	2	AM2489	CLEVIS, SEALER SPRING, LOWER
3	2	AM2490	TUBE, UPPER SPRING
4	2	AM2491	BUSHING, SPRING COLLAR
5	2	AM2492	TUBE, SPRING GUIDE
6	2	AP2997W	SPRING, 1.75" OD X 1.313" ID X 6.00"
7	2	AP3116	TUBE PLUG
8	4	BP3042	NUT, HEX, 1/2"-13, GRADE 2, PLATED
9	4	BP3043	WASHER, LOCK, 1/2", PLATED
10	8	BP3050	WASHER, FLAT, 1/2", PLATED
11	4	BP3126	HEX CAP SCREW, 1/2"-13 X 1-1/2", GRADE 5, PLATED
12	2	BP3129	HEX CAP SCREW, 1/2"-13 X 3", GRADE 5, PLATED
13	2	BP3130	HEX CAP SCREW, 1/2"-13 X 3-1/2", GRADE 5, PLATED
14	4	BP3244	NUT, HEX LOCK, 1/2"-13, PLATED

SealPro II (AAM2857) Assembly, Optional Sealer Spring Add-on Kit 1 Row

Mounting Spring Add-on Kit



NOTE:
(2) (AM2489)
sealer spring
clevis must
be mounted
with the hole
to the front



1. Mount (2) (AM2489) sealer spring clevis lower to arm with clevis hole to the front. Install (11) (BP3126) 1/2" x 1-1/2" grade 5 hex cap screw. Secure with (9) (BP3043) 1/2" lock washer and (8) (BP3042) 1/2" hex nut.

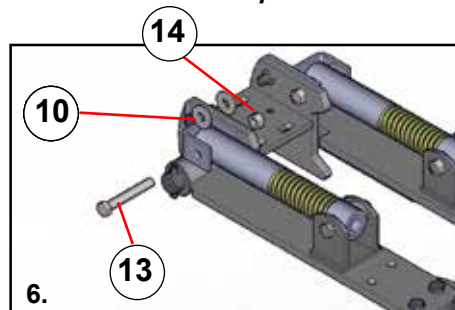
2. Mount (1) (AM2488) upper sealer spring clevis to sealer mounting bracket with (11) (BP3126) 1/2" x 1-1/2" grade 5 hex cap screw. Secure with (9) (BP3043) 1/2" lock washer and (8) (BP3042) 1/2" hex nut.

3. Insert (5) (AM2492) spring guide tube into (4) (AM2491) spring collar bushing and align the holes. Place in lower clevis. Insert (12) (BP3129) 1/2" x 3" hex cap screw through clevis. Place (10) (BP3050) 1/2" flat washers on both sides of bushing. Secure with (14) (BP3244) 1/2" lock hex nut. *Do not over tighten. Allow tubes to pivot.*

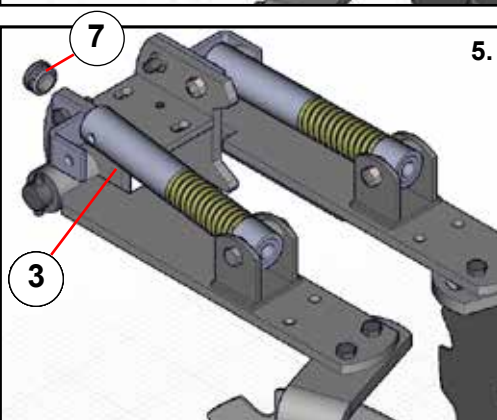
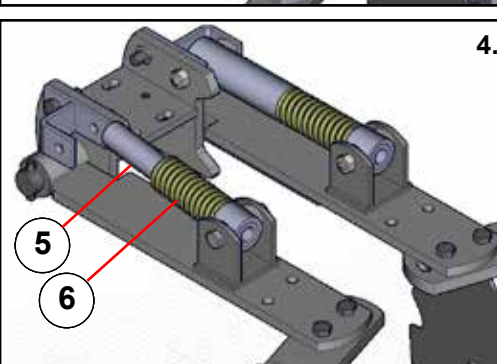
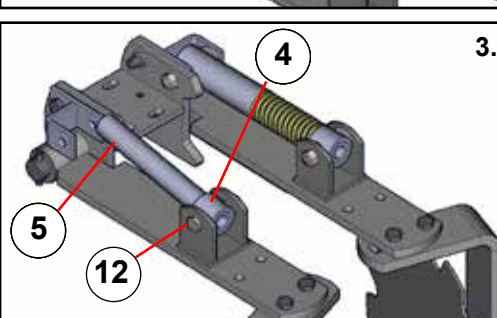
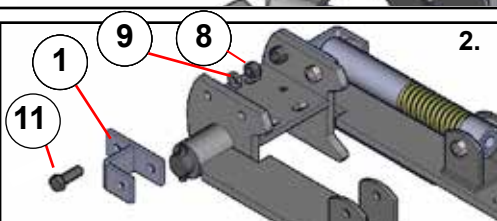
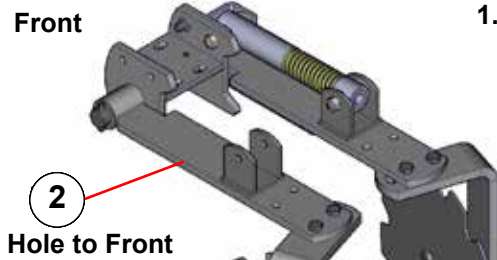
4. Place (6) (AP2997) spring over (5) (AM2492) spring guide tube.

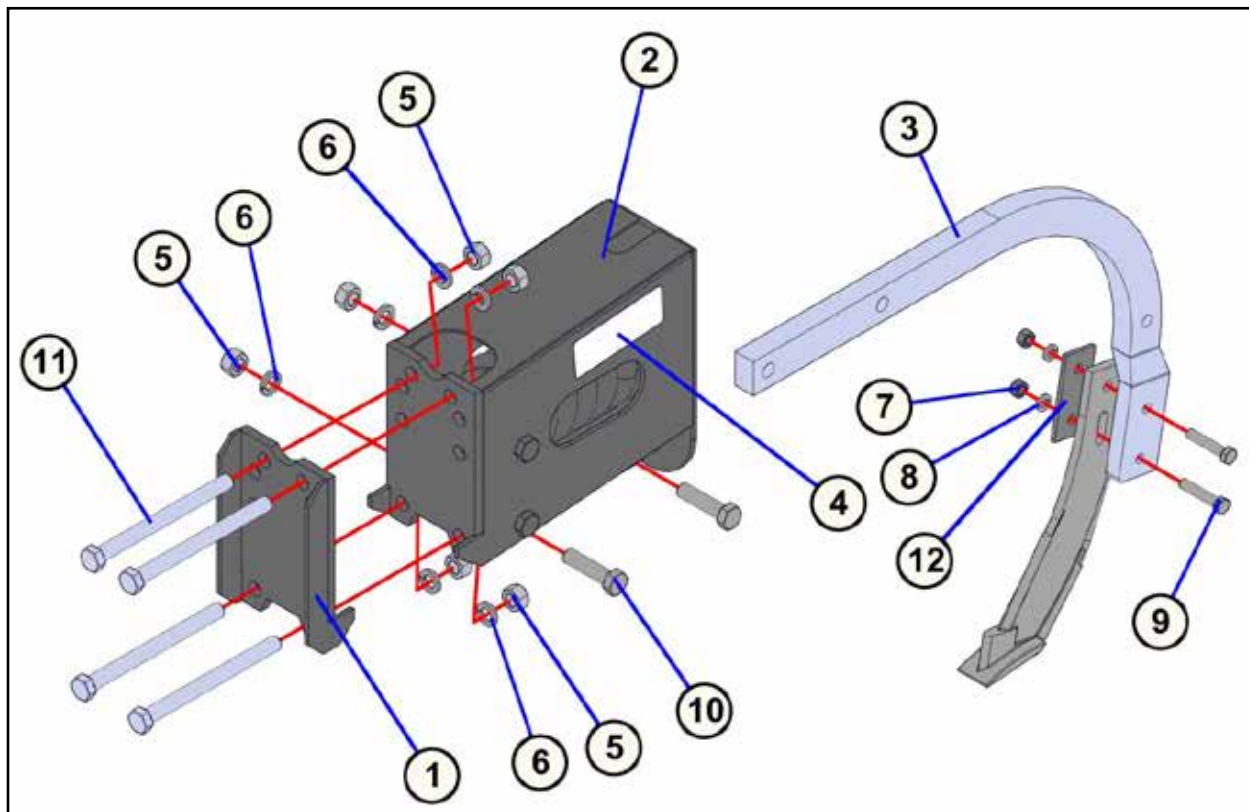
5. Place (3) (AM2490) upper spring tube over spring guide. Insert (7) (AP3116) tube plug in end of upper spring tube.

6. Lower spring assembly into upper clevis and insert (13) (BP3130) 1/2" x 3-1/2" hex cap screw. Place (10) (BP3050) 1/2" flat washers on both sides of upper tube. Secure with (14) (BP3244) 1/2" lock hex nut. *Do not over tighten. Allow tubes to pivot.*

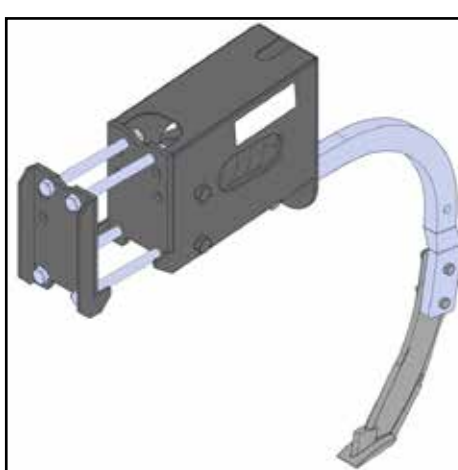
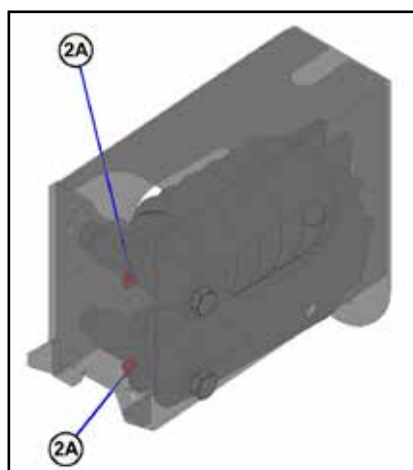


Front

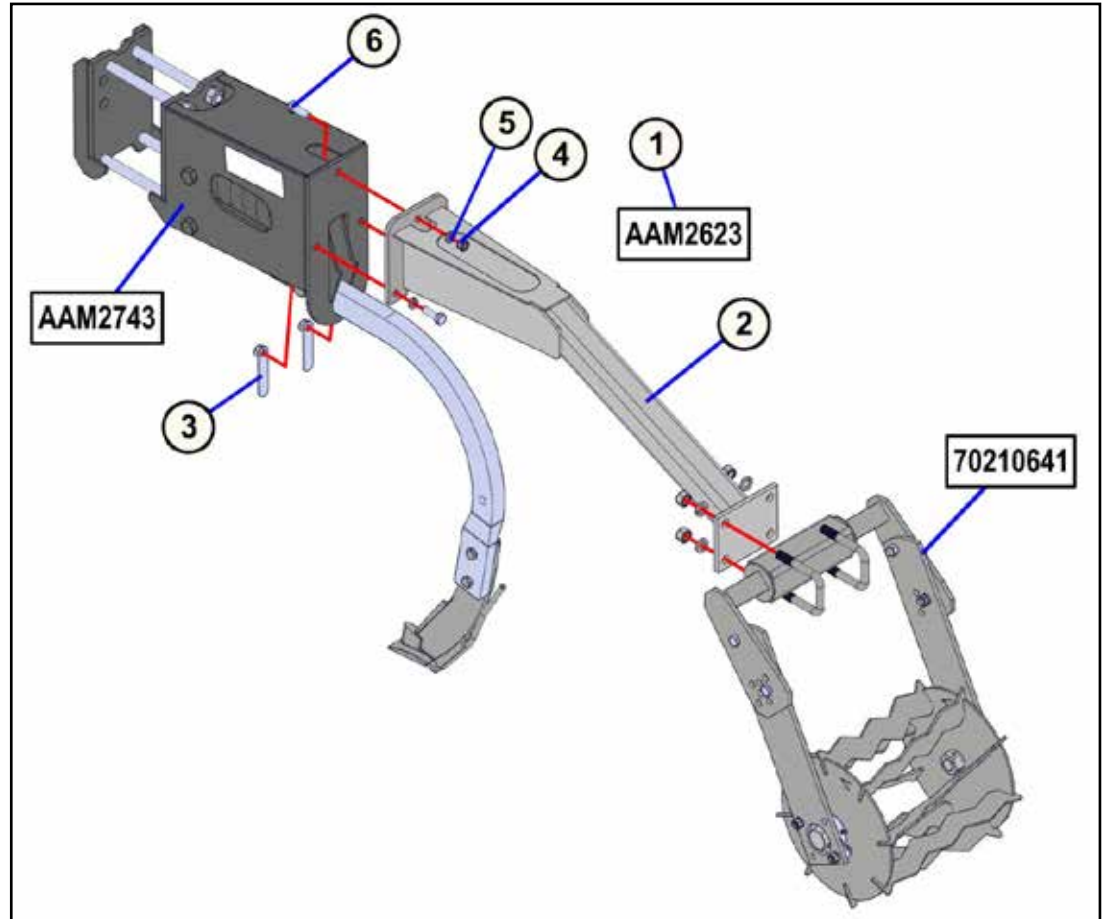




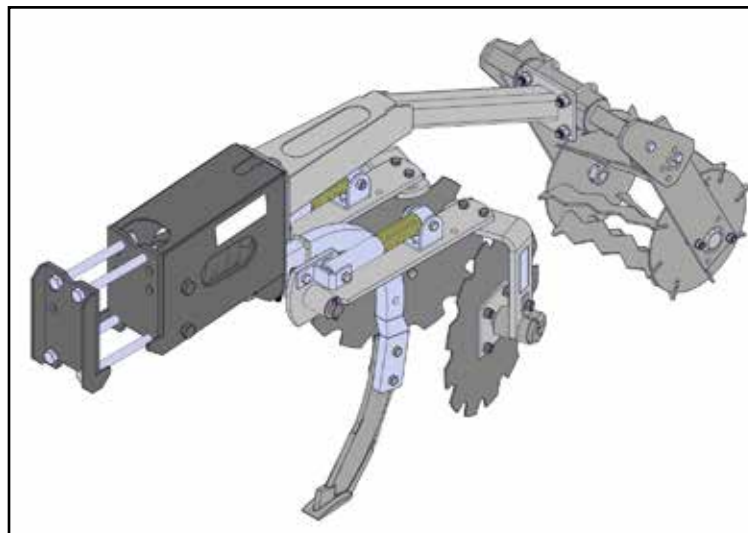
BOM ID	Qty	Item No	Description
1	1	AM2261	BACKING PLATE, ROW MOUNT
2	1	AM2264	ASSEMBLY, AR700 MAXPAC ROW UNIT
2A	2	BP3213	GREASE ZERK
3	1	AP2125	SHANK, 1-1/4" X 2" EDGE BENT
4	1	AP2976	DECALS, AR 700-MAX PAC, 2 1/4" X 6"
5	6	BP3034	NUT, HEX, 3/4"-10, GRADE 2, PLATED
6	6	BP3035	WASHER, LOCK, 3/4", PLATED
7	2	BP3042	NUT, HEX, 1/2"-13, GRADE 2, PLATED
8	2	BP3043	WASHER, LOCK, 1/2", PLATED
9	2	BP3128	HEX CAP SCREW, 1/2"-13 X 2-1/2", GRADE 5, PLATED
10	2	BP3141	HEX CAP SCREW, 3/4"-10 X 3", GRADE 5, PLATED
11	4	BP3285	HEX CAP SCREW, 3/4"-10 X 9", GRADE 5, PLATED
12	1	CM2311	KNIFE WASHER



AAM2623 MaxPac Basket Mount Arm



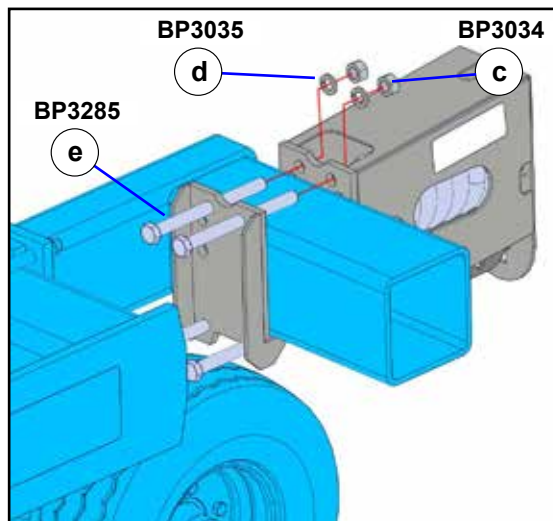
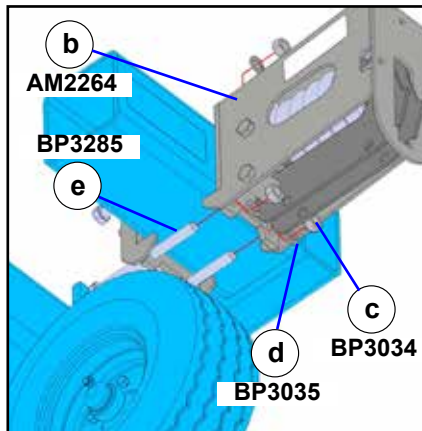
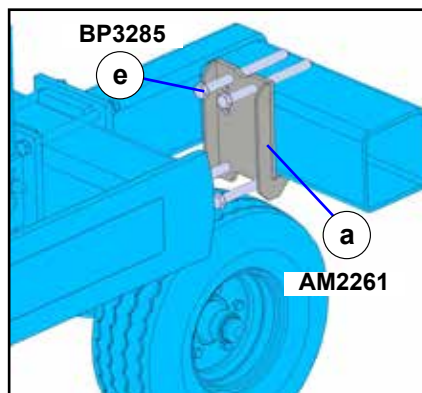
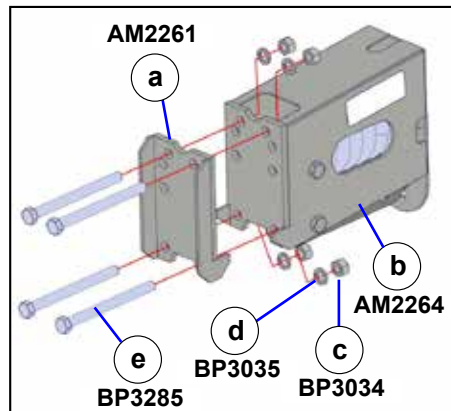
BOM ID	Qty	Item No	Description
1	1	AAM2623	AR700 MAXPAC BASKET MOUNT
2	1	AM2271	BASKET MOUNT, MAXPAC
3	2	AM2273	WELDMENT, NUT PLATE
4	1	BP3042	NUT, HEX, 1/2"-13, GRADE 2, PLATED
5	3	BP3043	WASHER, LOCK, 1/2", PLATED
6	3	BP3126	HEX CAP SCREW, 1/2"-13 X 1-1/2", GRADE 5, PLATED



MaxPac AR700 Assembly

► MaxPac AR700 row unit assembly

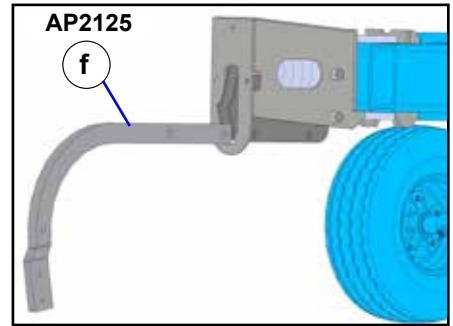
1. MaxPac AR700 row Unit
 - a. **AM2261** (1) backing plate, row unit AR 700 MaxPac row unit
 - b. **AM2264** (1) assembly, AR700 MaxPac row unit
 - c. **BP3034** (6) nut, hex, 3/4"-10, grade 2, plated
 - d. **BP3035** (6) washer, lock, 3/4", plated
 - e. **BP3285** (4) hex cap screw, 3/4"-10 x 9", grade 5, plated
2. Insert (e) (**BP3285**) hex cap screws, 3/4"-10 x 9", into holes in (a) (**AM2261**) backing plate. Select backing plate holes to match toolbar tube size. Raise (b) (**AM2264**) Assembly, AR700 MaxPac row unit and insert 3/4" hex cap screws. Insert (e) (**BP3285**) hex cap screws, 3/4"-10 x 9", into bottom holes of (a) (**AM2261**) backing plate.
3. Place (d) (**BP3035**) 3/4" lock washers and (c) (**BP3034**) 3/4" hex nuts on each 3/4" hex cap screws.
4. Tighten all four hex cap screws.



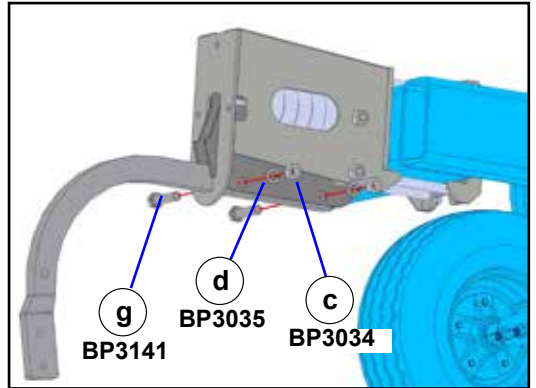
MaxPac AR700 Assembly

Installation of EdgeBent shank

5. Insert (f) (AP2125) 1-1/4" x 2" EdgeBent shank.

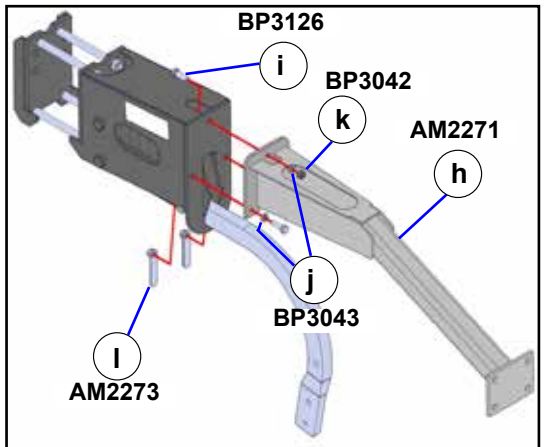


6. Install two (g) (BP3141) 3/4" x 3" hex cap screws through row unit weldment and shank. Secure with (d) (BP3035) 3/4" lock washers and (c) (BP3034) 3/4" hex nuts.



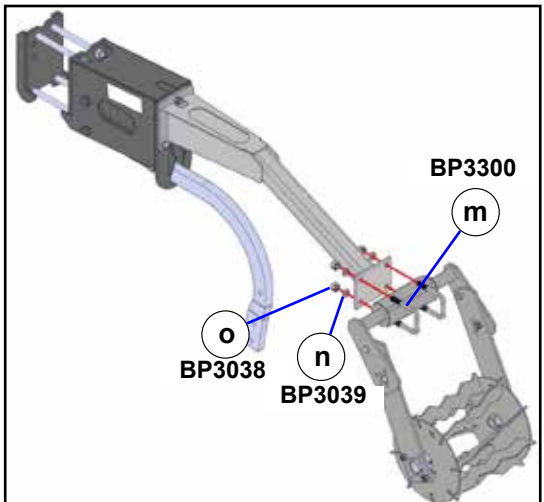
Installation of AAM2623 MaxPac basket

7. Attach (h) (AM2271) basket mount to MaxPac assembly with three (i) (BP3126) 1/2" hex cap screws.



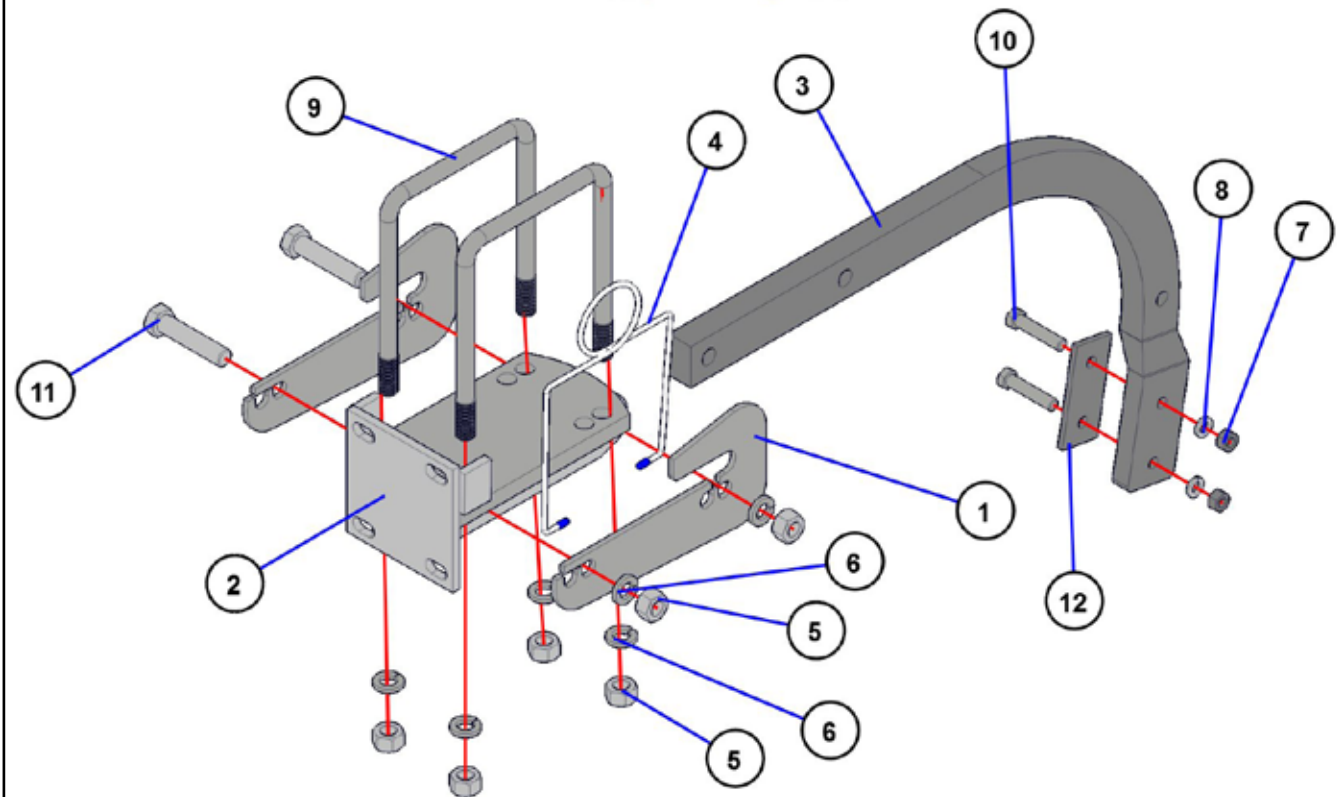
8. Secure with (j) (BP3043) 1/2" lock washers, one (k) (BP3042) 1/2" hex nut and two (l) (AM2273) nut plates.

9. Attach torsion arm to basket mount with (m) (BP3300) u-bolt 5/8"-11 x 2-1/2"W x 4"L. Secure with (n) (BP3039) 5/8" lockwashers and (o) (BP3038) 5/8" hex nuts.



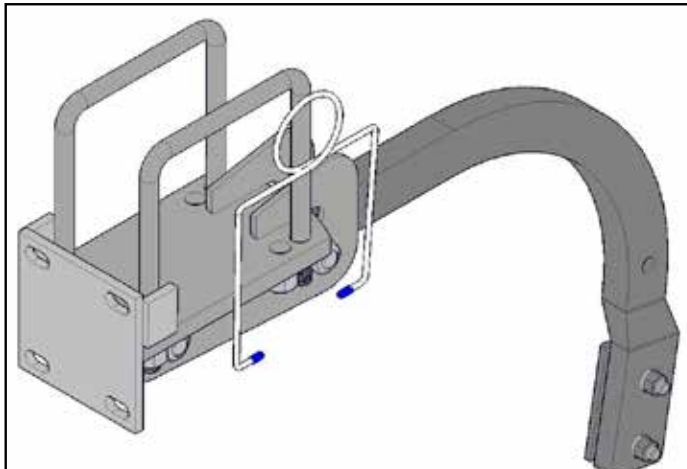
For complete torsion arm assembly instructions consult Torsion arm basket section.

Torsion arm mounting

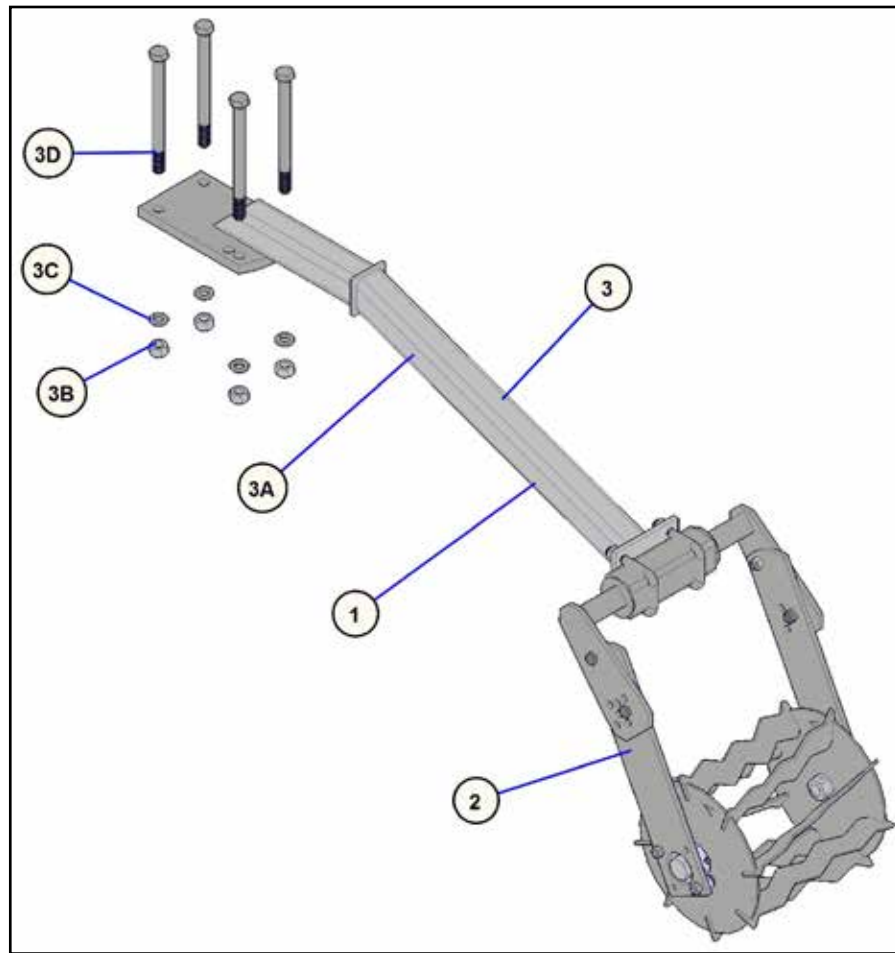


► AAM2137 ROW CLAMP, RIGID, EDGEBENT, 7" MOUNTS

BOM ID	Qty	Item No	Description
1	2	AM4891	BRACE, ANTI-ROTATION, EDGEBENT SHANK BRACKET
2	1	AM4893	BRACKET, EDGEBENT SHANK, RIGID MOUNT, 6" & 7" TUBE
3	1	AP2125	SHANK, 1-1/4" X 2" EDGE BENT
4	1	AP2284-1	HOSE RETAINER, 7" X 7", WITH PLASTIC CAPS
5	6	BP3034	NUT, HEX, 3/4"-10, GRADE 2, PLATED
6	6	BP3035	WASHER, LOCK, 3/4", PLATED
7	2	BP3042	NUT, HEX, 1/2"-13, GRADE 2, PLATED
8	2	BP3043	WASHER, LOCK, 1/2", PLATED
9	2	BP3058	U-BOLT, 3/4"-10 X 7"W X 9"L
10	2	BP3128	HEX CAP SCREW, 1/2"-13 X 2-1/2", GRADE 5, PLATED
11	2	BP3142	HEX CAP SCREW, 3/4"-10 X 3-1/2", GRADE 5, PLATED
12	1	CM2311	KNIFE WASHER

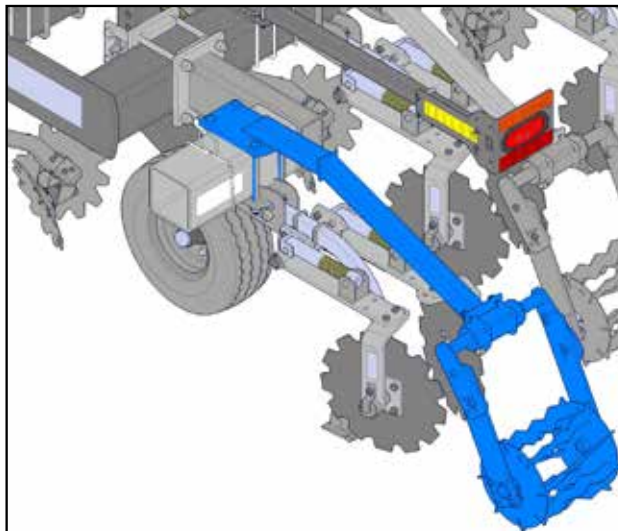


70210648 Rigid, Torsion Arm/Basket & Mounting



► 70210648 RIGID, TORSION ARM/BASKET & MOUNTING

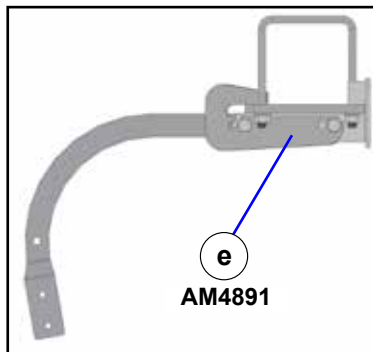
BOM ID	Qty	Item No	Description
1	1	70210648	RIGID, TORSION ARM/BASKET & MOUNTING
2	1	70210641	TORSION ARM & 12-3/4" BASKET ASSEMBLY
3	1	AAM2719	BASKET MOUNT ARM WITH HARDWARE, 7" X 7"
3A	1	AM2272	BRACKET, RIGID/SCS, TORSION ARM BASKET MOUNT
3B	4	BP3034	NUT, HEX, 3/4"-10, GRADE 2, PLATED
3C	4	BP3035	WASHER, LOCK, 3/4", PLATED
3D	4	BP3578	HEX CAP SCREW, 3/4"-10 X 9-1/2", GRADE 5, PLATED



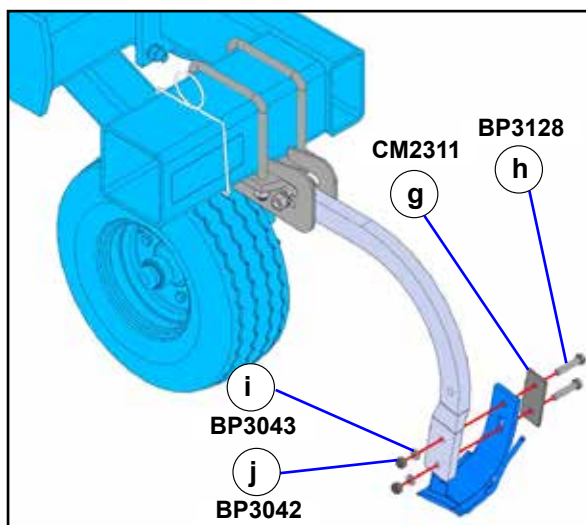
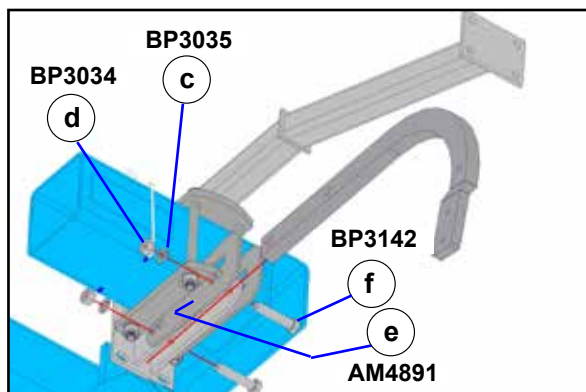
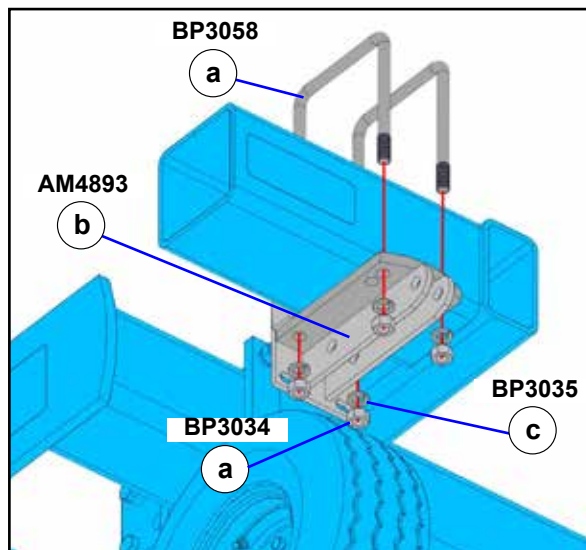
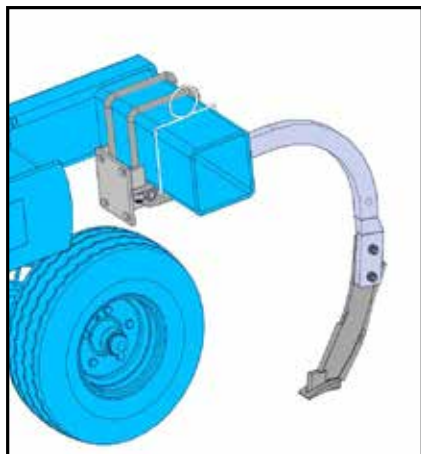
AAM2137 Row Clamp, 1-1/4" Rigid, With Shank Without Coulter Mount 7" x 7"

► EdgeBent rigid row clamp

1. Place (a) (BP3058) 3/4" x 7"W 9"L u-bolts over tube. Raise (b) (AM4893) EdgeBent shank rigid mount bracket over the u-bolts. Secure with (c) (BP3035) 3/4" lock washers and (d) (BP3034) 3/4" hex nuts.



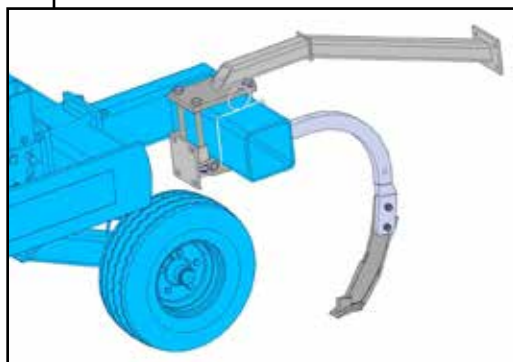
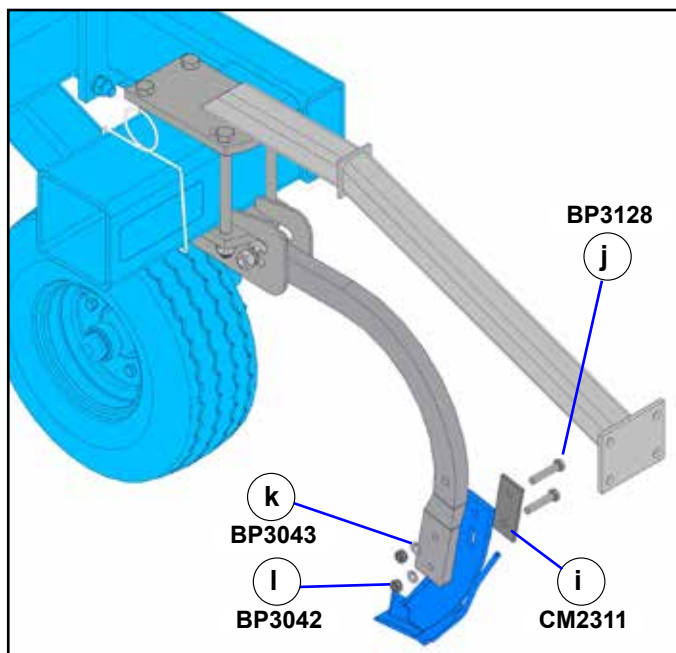
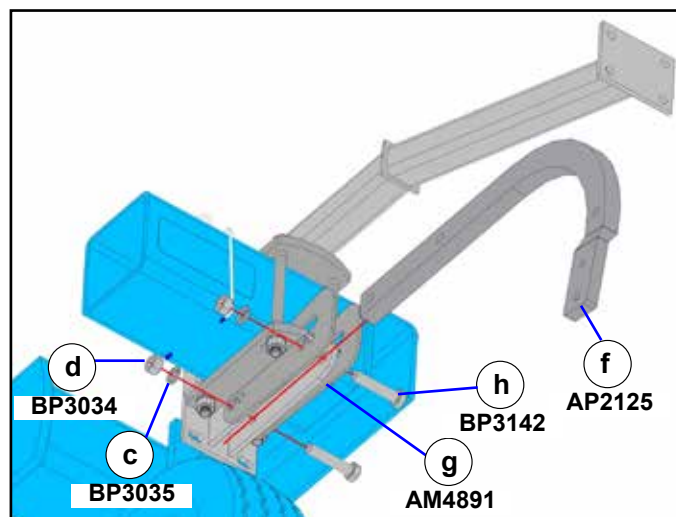
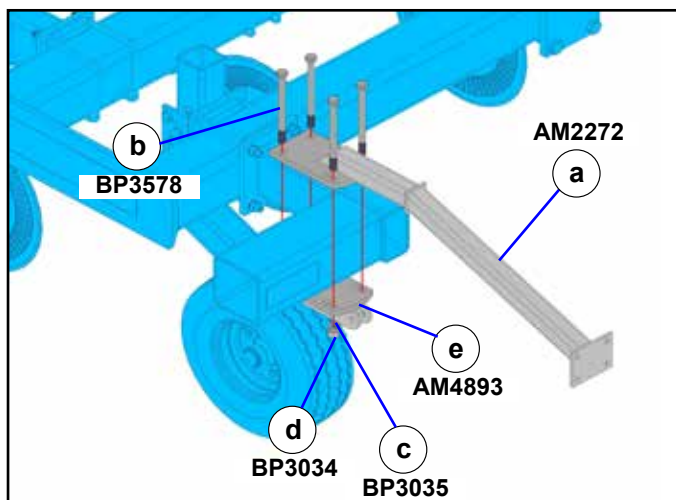
2. Slide (e) (AM4891) anti-rotation braces next to bottom weldment.
3. Insert two (f) (BP3142) 3/4" x 3-1/2" hex cap screws through anti-rotation plates and shank. Secure with (c) (BP3035) 3/4" lock washers and (d) (BP3034) 3/4" hex nuts.
4. Attach knife to shank with (g) (CM2311) knife washer and (h) (BP3128) 1/2" x 2-1/2" hex cap screws. Secure with (i) (BP3043) 1/2" lock washers and (j) (BP3042) 1/2" hex nuts.



NOTE:
No threads
in shear
area when
attaching
knives

► Rigid shank with basket mount

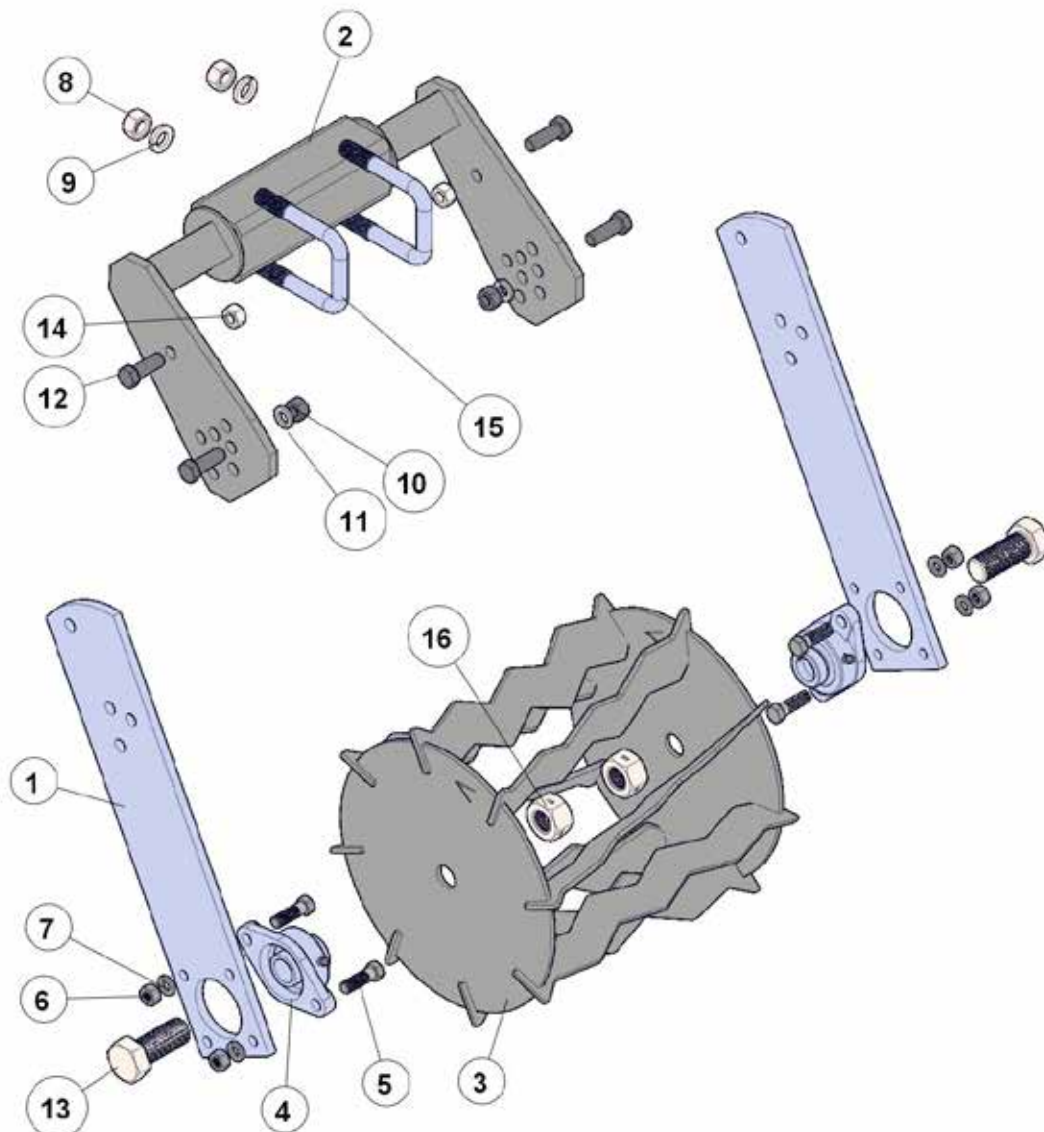
1. Attach (a) (AM2272) torsion arm basket mount rigid with (b) (BP3578) 3/4" x 9-1/2", grade 5 hex cap screws. Position (e) (AM4893) EdgeBent shank rigid mount on (b). Secure with (c) (BP3035) 3/4" lock washers and (d) (BP3034) 3/4" hex cap screws.
2. Slide (g) (AM4891) anti-rotation braces next on bottom weldment.
3. Insert two (h) (BP3142) 3/4" x 3-1/2" hex cap screw through anti-rotation plates and (f) (AP2125) shank. Secure with (c) (BP3035) 3/4" lock washers and (d) (BP3034) 3/4" hex nuts.
4. Attach knife to shank with (i) (CM2311) knife washer and (j) (BP3128) 1/2" x 2-1/2" hex cap screws. Secure with (k) (BP3043) 1/2" lock washers and (l) (BP3042) 1/2" hex nuts.



NOTE:
No threads
in shear
area when
attaching
knives

70210641 Torsion Arm & 12-3/4" Basket Assembly

► Bundle
Number
70210641



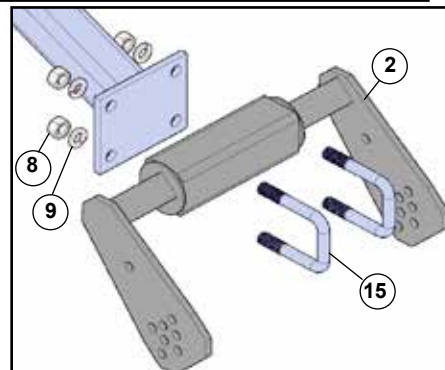
► 70210641 TORSION ARM & 12-3/4" BASKET ASSEMBLY

BOM ID	Qty	Item No	Description
1	2	AM2269	STRIP-TILL BASKET MOUNT, (18-3/4")
2	1	AM7568	STRIP-TILL TORSION SPRING ASSEMBLY
3	1	AM7615	BASKET, STRIPTILL, 12-3/4"
4	2	AP2144	HCFT205-16 BEARING
5	4	BP3012	HEX CAP SCREW, 7/16"-14 X 1-1/2", GRADE 5, PLATED
6	4	BP3016	NUT, HEX, 7/16"-14, GRADE 2, PLATED
7	4	BP3017	WASHER, LOCK, 7/16", PLATED
8	4	BP3038	NUT, HEX, 5/8"-11, GRADE 2
9	4	BP3039	WASHER, LOCK, 5/8", PLATED
10	2	BP3042	NUT, HEX, 1/2"-13, GRADE 2, PLATED
11	2	BP3043	WASHER, LOCK, 1/2", PLATED
12	4	BP3126	HEX CAP SCREW, 1/2"-13 X 1-1/2", GRADE 5, PLATED
13	2	BP3199	HEX CAP SCREW, 1"-8 X 2-1/2", GRADE 5, PLATED
14	2	BP3244	NUT, HEX LOCK, 1/2"-13, PLATED
15	2	BP3300	U-BOLT, 5/8"-11 X 2-1/2" X 4", PLATED
16	2	BP3446	NUT, HEX LOCK, 1"-8, REVERSIBLE, PLATED

Torsion Arm Assembly

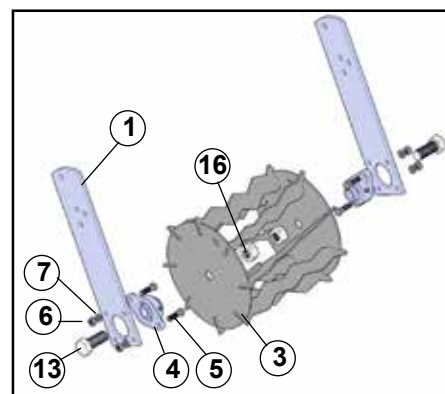
▶ Attaching torsion spring assembly

1. Attach (2) (AM7568) StripTill torsion spring assembly to rear of row mounting with (15) (BP3300) 5/8" x 2-1/2" x 4" u-bolts, (9) (BP3039) 5/8" lock washers and (8) (BP3038) 5/8" hex nuts.



▶ Attaching bearings and StripTill basket to mounting arms

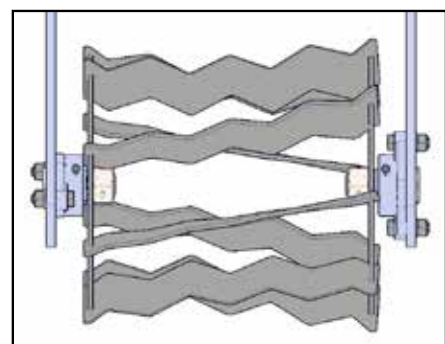
2. Attach (4) (AP2144) bearing 1", with/flange on (1) (AM2269) StripTill basket mounting short 18-3/4" with (5) (BP3012) 7/16" x 1-1/2" hex cap screws, (7) (BP 3017) 7/16" lock washers and (6) (BP3016) 7/16" hex nuts. *Do not tighten hex nuts until the basket is installed.* Insert (13) (BP3199) 1"-8 x 2-1/2" hex cap screw into both bearing arm assemblies.



▶ **NOTE:**
Bearing lock collars not used

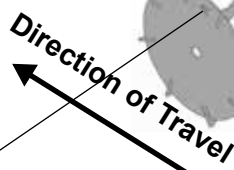
▶ Position StripTill basket on torsion spring assembly

3. Insert (3) (AM7615) StripTill basket over 1" x 2-1/2" hex cap screw. Install (16) (BP3446) 1" center dimple lock nut. Place socket on 1" hex cap screw and tighten. Tighten bearing hex nuts.



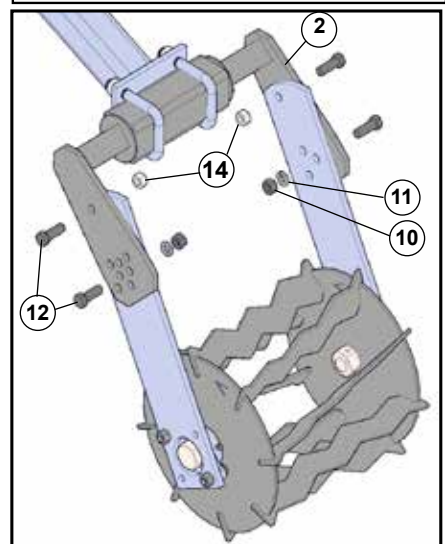
NOTE:
Bearing lock collars are not used

NOTE:
If the basket has an arrow on the side see diagram

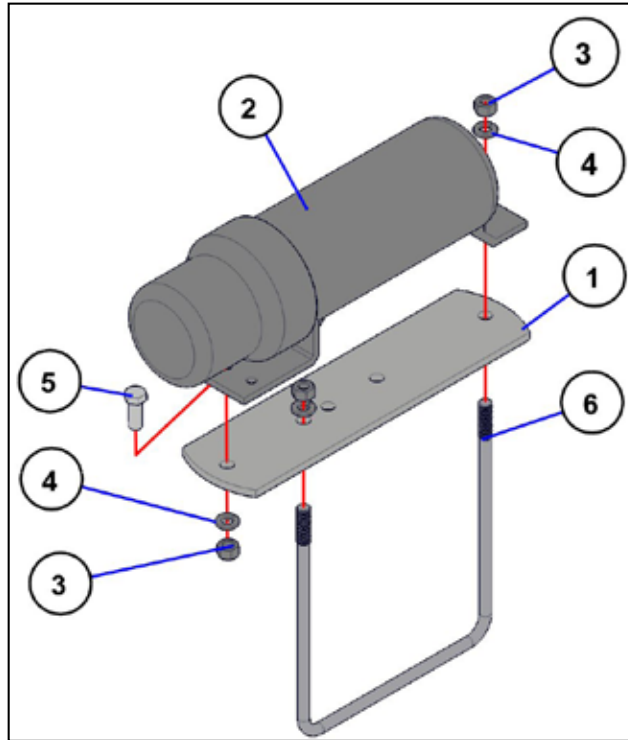


▶ Centering StripTill basket

4. Position StripTill basket assembly on torsion spring assembly. Insert (12) (BP3126) 1/2" x 1-1/2" hex cap screws, top and bottom. Secure top pivot hex cap screws with (14) (BP3244) 1/2" lock hex nuts. Secure lower adjustable hex cap screws with (11) (BP3043) 1/2" lock washers and (10) (BP3042) 1/2" hex nuts. Hex nuts may be tightened.



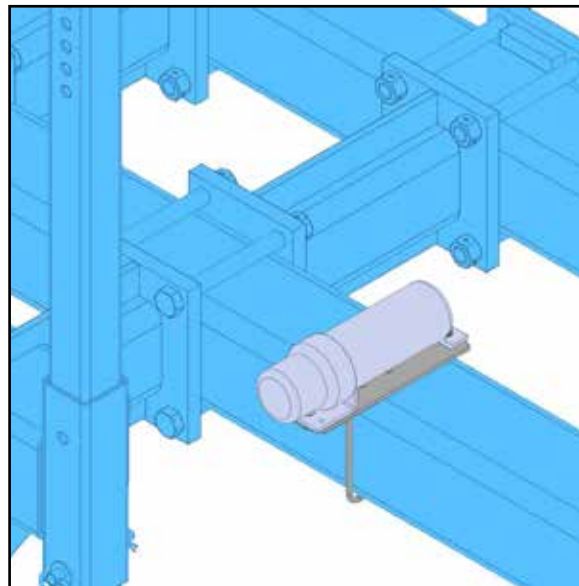
(Diagram shows a starting position.)

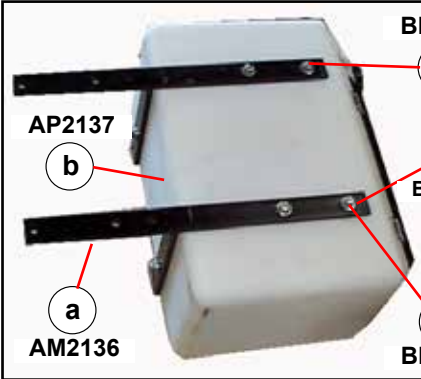






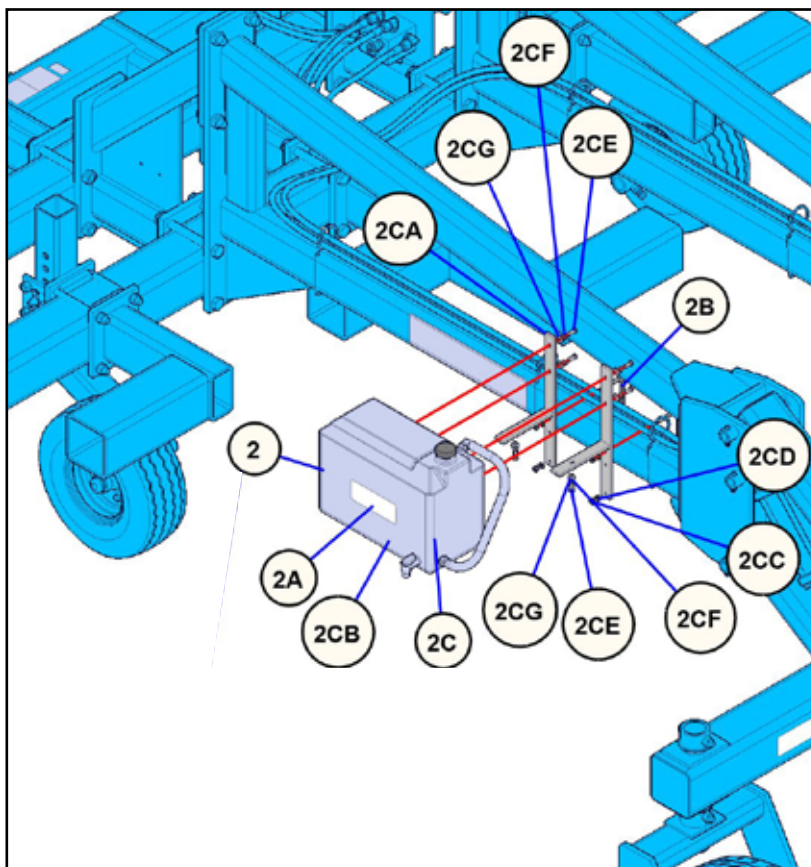
► AAM2641 MANUAL HOLDER, 7" X 7" MOUNTING HARDWARE

BOM ID	Qty	Item No	Description
1	1	AM7640	BRACKET, MOUNTING, MANUAL HOLDER
2	1	AP4254	MANUAL HOLDER, BLACK
3	3	BP3001	NUT, HEX, 3/8"-16, GRADE 2, PLATED
4	3	BP3002	WASHER, LOCK, 3/8", PLATED
5	1	BP3006	HEX CAP SCREW, 3/8"-16 X 1", GRADE 5, PLATED
6	1	BP3335	U-BOLT, 3/8"-16 X 7"W X 8"L, PLATED

1. Mount (2) (AP4254) manual holder to (1) (AM7640) manual holder bracket with (5) (BP3006) 3/8" x 1" hex cap screw. Secure with (4) (BP3002) 3/8" lock washer and (3) (BP3001) 3/8" hex nut.
2. Consult row spacing page for manual holder location.
3. Attach assembly to frame with (6) (BP3335) 3/8" x 7"W x 8"L u-bolt, (4) (BP3002) 3/8" lock washers and (3) (BP3001) 3/8" hex nuts.



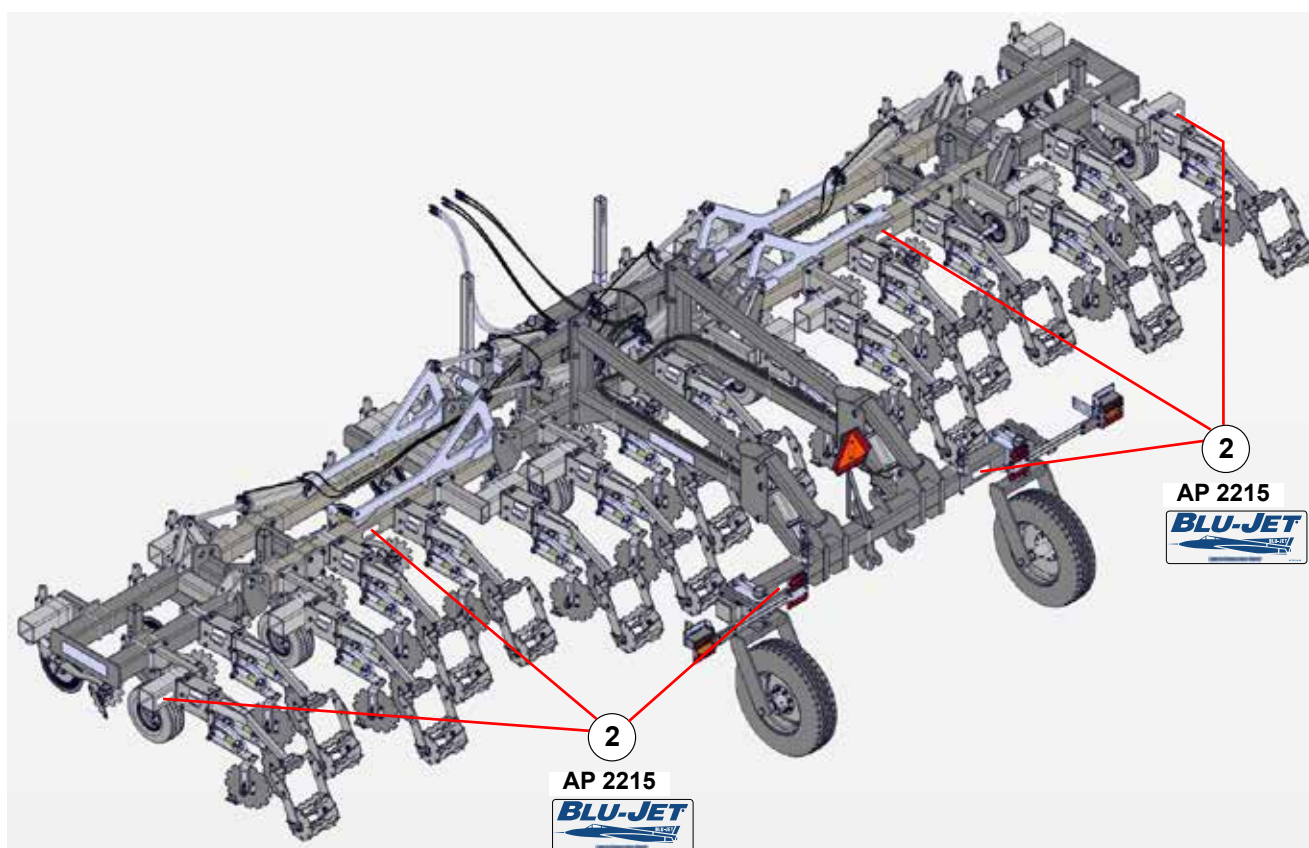
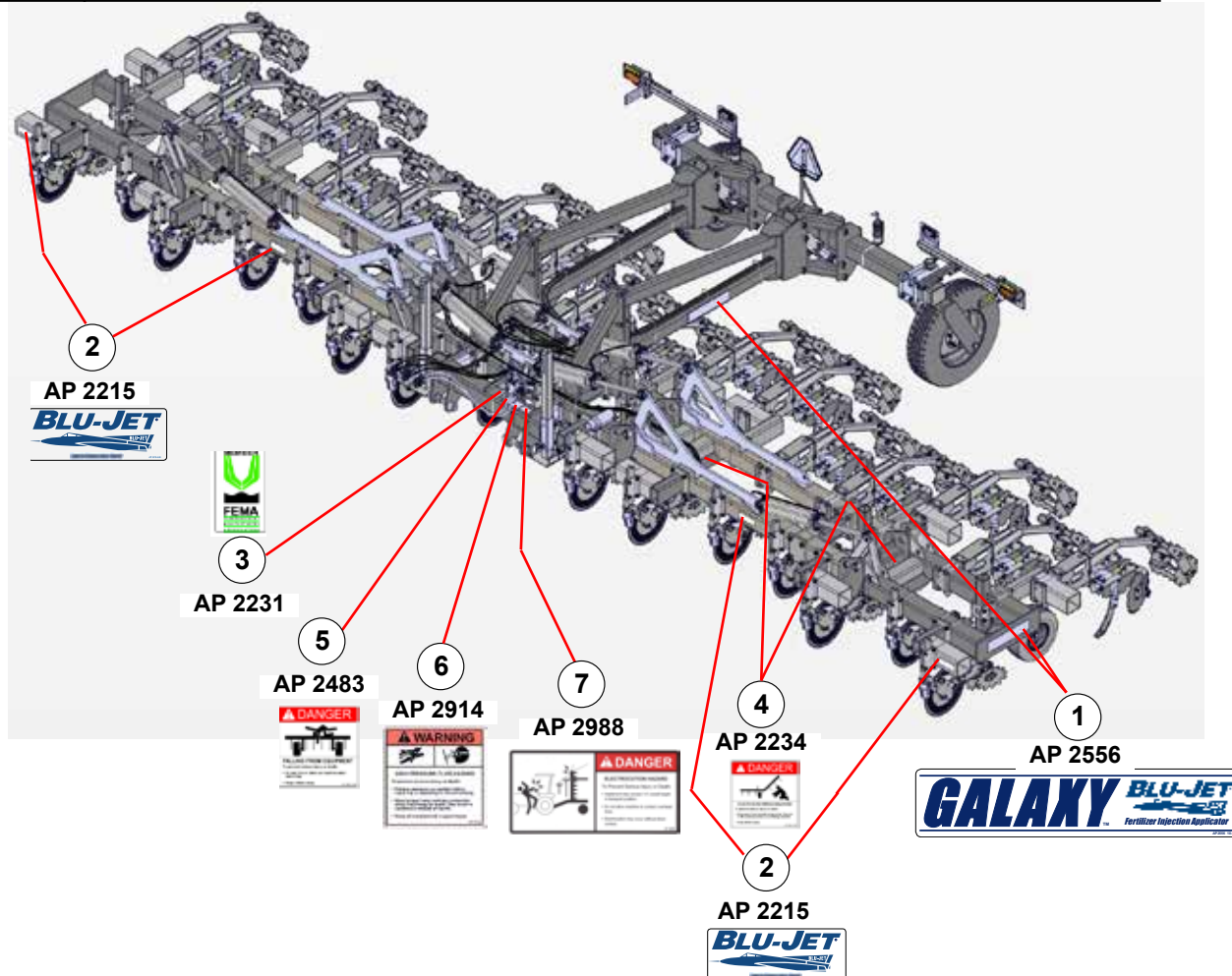
BLU-JET		AAM2425 Safety Tank, Toolbox Assembly 4" x 6"	
Task		Procedures	Illustrations
►	Safety tank Assembly	1. Mount (a) (AM2136) tank mounting 9 gallon bracket on the back of (b) (AP2137) 9 gallon safety tank. Secure top and bottom of bracket with (c) (BP3108) 5/16"-18 x 1" hex cap screws, (d) (BP3159) 5/16" flat washers, and (e) (BP3158) 5/16" lock washers.	
►	Mounting Safety tank	2. Consult row spacing layouts for tank location. Mount to frame with two (f) (BP3214) 3/8"-16 x 4-1/16" x 7" u-bolts, (g) (BP3002) 3/8" lock washers, and (h) (BP3001) 3/8" hex nuts.	
►	NOTE: Left-hand and right-hand as viewed from the rear.	3. Place sealant on tank fittings. Install tank fitting as pictured.	
►		Installation of tank fittings	
			



BOM ID	Qty	Item No	Description
2	1	AAM2426	SAFETY TANK, TOOLBOX ASSEMBLY, 6" X 4" MOUNTS
2A	1	AP2215	DECAL, BLU-JET, 3" X 8"
2B	2	BP3045	U-BOLT, 3/8"-16 X 6"W X 5"L, PLATED
2C	1	PKG00040	PACKAGE, 9 GALLON SAFETY TANK
2CA	2	AM2136	BRACKET, TANK MOUNT
2CB	1	AP2137	SAFETY TANK, 9 GALLON
2CC	4	BP3001	NUT, HEX, 3/8"-16, GRADE 2, PLATED
2CD	4	BP3002	WASHER, LOCK, 3/8", PLATED
2CE	6	BP3108	HEX CAP SCREW, 5/16"-18 X 1", GRADE 5, PLATED
2CF	6	BP3158	WASHER, LOCK, 5/16", PLATED
2CG	6	BP3159	WASHER, FLAT, 5/16", PLATED

►DECALS

BOM ID	Qty	Item No	Description
1.	4	AP 2556	DECAL, GALAXY
2.	10	AP 2215	DECAL, BLU-JET, 3" x 8"
3.	1	AP 2231	DECAL, FEMA, 2-1/2" x 1-1/2"
4.	4	AP 2234	DECAL, DANGER STAND CLEAR FALLING WING
5.	1	AP 2483	DECAL, DANGER, FALLING FROM EQUIPMENT
6.	1	AP 2914	DECAL, WARNING, HIGH PRESSURE FLUID
7.	1	AP 2988	DECAL, DANGER, OVERHEAD POWER LINES





Hydraulic Cylinders And Parts

MFG # TMC #	Bore/ Stroke	Repair Kit	Clevis	Butt	Gland	Piston
SAE-34024 DP4248	4" X 24"	PMCK-SAE-34000 DP4310	100000326 DP4115	141900037 DP4270	081900354 DP4326	071900260 DP4328

MFG # TMC#	Piston Rod	Barrel	4 Req Tie Rod	2 Req Clevis Pin	4 Req Cotter Pin
SAE-34024 DP4248	011000324 DP4336	051900015 DP4347	170301292 DP4352	190400035 BP3497	220001504 BP3511

MFG # TMC #	Bore/ Stroke	Repair Kit	Clevis	Butt	Gland	Piston
SAE-34508 DP4541	4-1/2" X 8"	PMCK-B450000 DP 4503	100000362 DP 4114	1420007SG DP 4507	0820BCASG DP 4508	072000081 DP 4509
MFG # TMC#	Piston Rod	Barrel	4 Req Tie Rod	2 Req Clevis Pin	4 Req Cotter Pin	
SAE-34508 DP 4541	011114625A DP 4663	052011125A DP 4664	170301137 DP 4665	1-1/4 x 3-3/16 BP 3498	220001504 BP 3511	

With cylinder removed from machine, clean, drained of oil and fully retracted, proceed as follows:

Disassembly:

1. Secure cylinder in vice or other method to prevent rotation. With the immediate area clean of dirt so parts can be laid out.
2. Remove tie-rod nuts, item (1).
3. Pull rod assembly from cylinder. Remove tube, item (3).
4. Loosen nut item (4), and remove clevis, item (5), from rod assembly.
5. Place rod assembly in vice with copper or brass jaws so as not to damage.
6. Remove all seals from items (6), (8), and (9) for replacement. Clean and inspect all parts, for damage (nicks, scratches, cracks and etc.) replace as necessary. If you have any question please contact Prince Hydraulics (712) 235-1220.

Reassembly:

1. Replace all seals in items (6), (8), and (9). Do not replace small O-ring on ID of piston, item (8), until ready to attach rod, item (2).
2. Place small ID O-ring seal for piston over rod turndown and apply light coat of grease to seal. Slip piston, item (8), onto turndown with ID counter bore towards rod shoulder. Take care not to pinch O-ring between piston and rod shoulder. Replace nut, item (7), and secure.
3. Apply light coat of grease to seals in gland, item (6), and slip gland over rod end, carefully so as not to damage seals. Slip entire assembly into lightly oiled tube, item (3), piston first. Insure tube slips up over OD seals of gland.
4. Take total assembly in step 3 and slip tube over OD seal on butt, item (9). Align ports in butt and gland and apply nuts, item (1), to tie-rods and toque uniformly.

Tierod

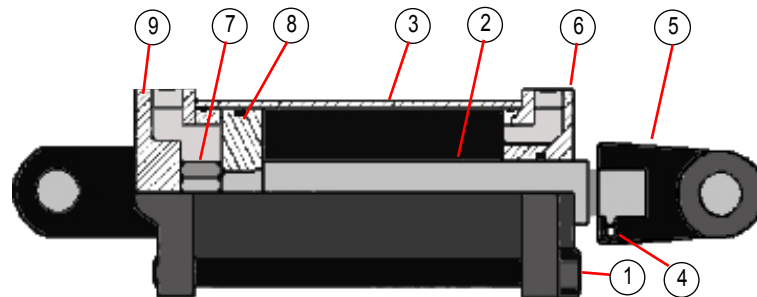
3/8" tierods 20-23 ft./lbs. (27-31 Nm)

1/2" tierods 45-52 ft./lbs. (61-70 Nm)

5/8" tierods 95-105 ft./lbs. (129-142 Nm)

3/4" tierods 150-165 ft./lbs (203-224 Nm)

5. Test for leaks and reinstall in machine. If you have any problems contact Prince Hydraulics (712) 235-1220.










WARNING: Make sure you perform the required service and adjustments correctly. Failure will damage machine or injure operator.

6. The hydraulic system **MUST** have the air removed from the system after initial machine set-up or following the repair or replacement of any part of the system.
7. Connect implement to the tractor drawbar correctly before operating or making any adjustments.

Torque Specifications

NOTE: Use these torque's unless special torque's are specified. Values are for UNC and UNF thread fasteners, plated or un-plated, as received from supplier. Fasteners can be dry or lubricated with normal engine oil. Values do not apply if graphite, moly-disulphide or other extreme pressure lubricant is used.

SAE Grade No.	2				5				*8			
Bolt head identification (see Note 1)					  				  			
Bolt Size	LB FT		Nm		LB FT		Nm		LB FT		Nm	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/4	5	6	7	8	9	11	12	15	12	15	16	20
5/16	10	12	14	16	17	20.5	23	28	24	29	33	39
3/8	20	23	27	31	35	42	48	57	45	54	61	73
7/16	30	35	41	47	54	64	73	87	70	84	95	114
1/2	45	52	61	70	80	96	109	130	110	132	149	179
9/16	65	75	88	102	110	132	149	179	160	192	217	260
5/8	95	105	129	142	150	180	203	244	220	264	298	358
3/4	150	185	203	251	270	324	366	439	380	456	515	618
7/8	160	200	217	271	400	480	542	651	600	720	814	976
1	250	300	339	406	580	696	787	944	900	1080	1220	1464
1 1/8					800	880	1085	1193	1280	1440	1736	1953
1 1/14					1120	1240	1519	1681	1820	2000	2468	2712
1 3/8			*Thick nuts must be used with Grade 8 bolts		1460	1680	1980	2278	2380	2720	3227	3688
1 1/2					1940	2200	2631	2983	3160	3560	4285	4827

NOTE 1: Bolt head identification mark as per grade. Manufacturing marks will vary.

STANDARD TORQUE DATA HYDRAULIC TUBES AND FITTINGS

O-ring boss Plugs, Adjustable Fitting
Lock nuts, Swivel JIC-37 degree Seats

SIZE	LB FT		Nm	
	Min.	Max.	Min.	Max.
4	6	10	8	14
5	10	15	14	20
6	15	20	20	27
8	25	30	34	41
10	35	40	47	54
12	60	70	81	95
14	70	80	95	109
16	80	90	108	122
20	95	115	129	156
24	120	140	163	190
32	250	300	339	407

Above torque figures are recommended for plain, cadmium or zinc plated fittings, dry or wet installation and swivel nuts either swaged or brazed.