

SUMMERS[®]

8Z1070 - Supercoultter Plus

Operator's Manual



**SC1510, SC1030, SC1530,
SC1535, SC1550**
(Supercoultter Plus)

8Z1070 - Supercoultter Plus

IMPORTANT

THE OPERATOR IS RESPONSIBLE FOR ADJUSTING THE MACHINE SINCE MACHINE DOES NOT COME "FIELD READY" FROM FACTORY.



CAUTION

READ & UNDERSTAND OPERATOR'S MANUAL BEFORE USING MACHINE.

See www.summersmfg.com for latest version of all Summers Operator's Manuals.

SUMMERS MANUFACTURING CO., INC.
WEB SITE: www.summersmfg.com

DEVILS LAKE, NORTH DAKOTA 58301

(701) 662-5391

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Preface

This manual is intended for use with Supercoulter Plus for Summers® Manufacturing Company, Inc. This book is composed of these basic sections: Safety, Assembly, Operation & Maintenance, Troubleshooting and Parts. The safety section provides complete instructions for the proper safe operation of a Summers Mfg. product. The Assembly section provides information for the proper assembly. The Operation & Maintenance section provides information for the proper operation and maintenance. A complete parts breakdown is provided in the Parts section.

Parts are referenced in each drawing with the Summers Manufacturing part number. Use this part number when ordering replacement parts from your Summers dealer. See the back section of the manual for description of each part.

Reference to “Right” and “Left” in this book is determined when the machine is viewed from the rear.

Disclaimer

It is the policy of this company to improve its products whenever possible and practical to do so. We reserve the right to make changes or improvements in the design or construction of parts at any time without incurring the obligation to install such changes on products previously delivered.

Summers Manufacturing Company, Inc. strongly recommends that each operator READ and UNDERSTAND the Operator’s Manual before using the machine. In addition, the Operator’s Manual should be REVIEWED at least Annually thereafter.

Scan code to the right for the latest version of all Summers Operator’s Manuals.



Contact Information

Summers Manufacturing Company, Inc.
103 Summers St. NW
Devils Lake, ND 58301
Toll Free: 1-800-732-4392
Local: 1-701-662-5391 (Devils Lake, ND)
1-605-226-3644 (Aberdeen, SD)
www.summersmfg.com

Owner Registration Information

Bring this information when ordering parts (Serial Number is located at front of hitch).

Name _____	Size _____
Address _____	Serial Number _____
City _____	(located by the hitch)
State/Prov. _____	Date Purchased _____
Mail Code _____	Dealer _____

WARRANTY

Summers warrants only products of its manufacture against operational failure caused by defective materials or workmanship which occur during normal use within 36 months from the date by the end user from Summers' dealer.

Summers' obligation is to replace, free of charge, any part of the product that Summers inspection shows to be defective excluding transportation charges to Devils Lake, ND and return and also excluding all transportation costs from Summers' dealer to the dealer's customer and all other costs, such as removal and installation expense.

Summers shall not be liable for loss of time, manufacturing costs, labor, material, loss of profits, consequential damages, direct or indirect, because of defective products whether due to rights arising under the contract of sale or independently thereof, and whether or not such claim is based on contract, tort or warranty.

Written permission for any warranty claim return must be first obtained from authorized Summers' personnel. All returns must be accompanied with a complete written explanation of claimed defects and the circumstances of operational failure.

Written warranty for all component parts used in the manufacture of Summers products is available upon request. Warranty of such component parts will be determined by said component manufacturer upon their inspection of the claimed defective part.

This express warranty is the sole warranty of Summers. There are no warranties, which extend beyond the warranty therein expressly set forth. The sales for products of Summers under any other warranty or guarantee express or implied is not authorized. This warranty voids all previous issues.

Summers® Manufacturing Co., Inc.
Devils Lake, ND 58301

01/16

Safety Information



This safety alert symbol is used to denote possible danger and care should be taken to prevent bodily injury. When you see this symbol it means ATTENTION, BECOME ALERT! and/or YOUR SAFETY IS INVOLVED!

WARNING: Safe practices must be followed when working on or operating this equipment. All personnel involved must:



- Read and understand the instructions and manuals for this machine.
- Be instructed in the safe use of tools and all lifting devices involved in the assembly of this equipment.
- Clear the area of all personnel not involved in the assembly of this machine.

General Safety Practices

1. READ and UNDERSTAND the Operator's Manual before using any equipment. Review at least annually thereafter.
2. VERIFY all safety devices and shields are in place before using any equipment.
3. KEEP hands, feet, hair and clothing away from moving parts.
4. STOP engine, place all controls in neutral, set parking brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, maintaining or unplugging.
5. BE CAREFUL when working around high pressure hydraulic system.
6. DO NOT ALLOW RIDERS.

Safety During Transportation

1. ONLY TOW at a safe speed. Use caution when making corners and meeting traffic.
2. USE safety chain between tractor drawbar and implement hitch when transporting on public roads.
3. ALWAYS use transport locks when transporting on public roads.
4. COMPLY with local lighting, marking and oversize regulations when transporting on highways.
5. FREQUENTLY check for traffic from rear, especially during turns.

Safety Decals



Indicates an immediate hazardous situation that will result in death or serious injury. The color associated with Danger is RED.



Indicates a potentially hazardous situation that could result in death or serious injury. The color associated with Warning is ORANGE.



Indicates a potentially hazardous situation that may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

The Notice decals and statements in this manual are to inform the operator of the correct fluids or operational practices for this machine. Failure to follow these notices will result in damage to the machine. The color associated with Notice is GREEN.

1. Keep safety signs clean and legible at all times.
2. Replace safety signs that are missing or have become illegible.
3. Replaced parts that displayed a safety sign should also display the current sign.
4. Safety signs are available from your dealer's parts department or the factory.

How to install safety signs?

1. Be sure that the installation area is clean and dry.
2. Be sure the temperature is above 50° F (10° C).
3. Decide on the exact position before removing the backing paper.
4. Remove the smallest portion of the split backing paper.
5. Align the sign over the specified area and carefully press the small portion with the exposed sticky backing in place.
6. Slowly peel back the remaining paper and carefully smooth the remaining portion of the sign in place.
7. Small air pockets can be pierced with a pin and smoothed out using the piece of sign backing paper.

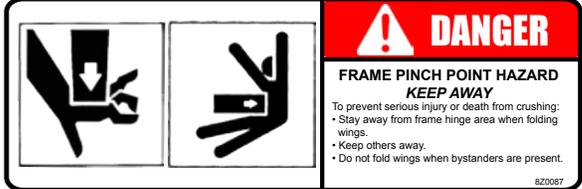


Safety Decal Locations

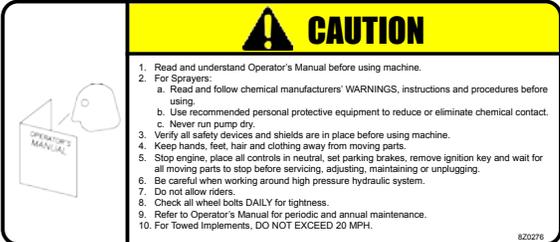
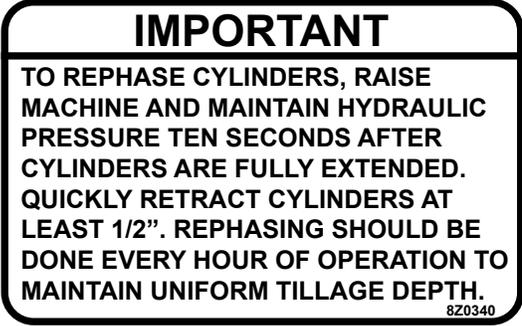
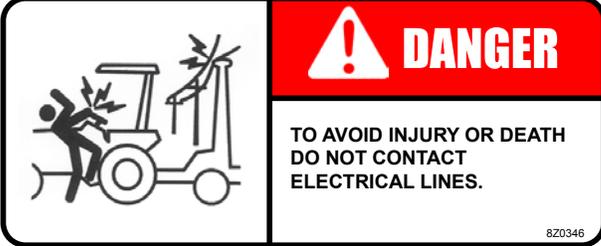
The types of safety signs and locations on the equipment are shown in the illustrations below. Good safety requires that you familiarize yourself with the various safety signs, the type of WARNING and the area or particular function related to that area, that requires your SAFETY AWARENESS.

IMPORTANT: If Safety Signs have been damaged, removed, become illegible or parts replaced without safety signs, new signs must be applied. New safety signs are available from your authorized dealer.

Safety Decals

DECALS				
ITEM	PN	QTY	DESCRIPTION	
1	8Z0075	1	TRANSPORT LOCK DECAL	
2	8Z0087	4	PINCH POINT DECAL	
3	8Z0100	1	MADE IN THE USA DECAL	
4	8Z0202	4	3.5" SUMMERS DECAL	
5	8Z0204	2	5.5" SUMMERS DECAL	

Safety Decal Locations (cont'd)

6	8Z0276	1	GENERAL MACHINE CAUTION DECAL	 <p>CAUTION</p> <ol style="list-style-type: none"> 1. Read and understand Operator's Manual before using machine. 2. For Sprayers: <ol style="list-style-type: none"> a. Read and follow chemical manufacturers' WARNINGS, instructions and procedures before using. b. Use recommended personal protective equipment to reduce or eliminate chemical contact. c. Never run pump dry. 3. Verify all safety devices and shields are in place before using machine. 4. Keep hands, feet, hair and clothing away from moving parts. 5. Stop engine, place all controls in neutral, set parking brakes, remove ignition key and wait for all moving parts to stop before servicing, adjusting, maintaining or unplugging. 6. Be careful when working around high pressure hydraulic system. 7. Do not allow riders. 8. Check all wheel bolts DAILY for tightness. 9. Refer to Operator's Manual for periodic and annual maintenance. 10. For Towed Implements, DO NOT EXCEED 20 MPH. <p>8Z0276</p>
7	8Z0340	1	REPHASING CYLINDERS DECAL	 <p>IMPORTANT</p> <p>TO REPHASE CYLINDERS, RAISE MACHINE AND MAINTAIN HYDRAULIC PRESSURE TEN SECONDS AFTER CYLINDERS ARE FULLY EXTENDED. QUICKLY RETRACT CYLINDERS AT LEAST 1/2". REPHASING SHOULD BE DONE EVERY HOUR OF OPERATION TO MAINTAIN UNIFORM TILLAGE DEPTH.</p> <p>8Z0340</p>
8	8Z0342	3	INSTALL CYL LOCKS DECAL	 <p>WARNING</p> <p>TO AVOID INJURY INSTALL CYLINDER LOCKS BEFORE TRANSPORTING OR SERVICING MACHINE.</p> <p>8Z0342</p>
9	8Z0344	4	WING DANGER DECAL	 <p>DANGER</p> <p>TO AVOID INJURY OR DEATH STAND CLEAR OF MACHINE WHEN WINGS ARE BEING RAISED AND LOWERED. MECHANICAL OR HYDRAULIC FAILURE CAN ALLOW WINGS TO FALL RAPIDLY.</p> <p>8Z0344</p>
10	8Z0346	1	ELECTROCUTION-TILLAGE EQUIP. DECAL	 <p>DANGER</p> <p>TO AVOID INJURY OR DEATH DO NOT CONTACT ELECTRICAL LINES.</p> <p>8Z0346</p>

Safety Decal Locations (cont'd)

11	8Z0348	4	GUAGE WHEEL DEPTH DECAL	
	8Z0350	1	GANG BEARING GREASE DECAL	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">IMPORTANT</p> <p>*GREASE GANG BEARINGS EVERY 20 HOURS.* GREASE AT MID DAY OR END OF DAY WHEN BEARINGS ARE AT OPERATING TEMPERATURE. ADD 3 STROKES OF CHEVRON ULTRA-DUTY EP NLGI 2 OR EQUIVALENT. ROTATE GANG 2 TO 3 REVOLUTIONS. ADD THREE MORE STROKES. GREASE ALL ZERKS ON MACHINE BEFORE EXTENDED STORAGE PERIOD.</p> <p style="text-align: right; font-size: small;">8Z0350</p> </div>
12	8Z0800	4	REFLECTOR - YELLOW - ADHESIVE BACKED	
13	8Z0805	4	REFLECTOR - RED- ORANGE ADHESIVE BACKED	
14	8Z0810	6	REFLECTOR - RED - ADHESIVE BACKED	
15	8Z2400 8Z2405 8Z2410 8Z2415 8Z2420 8Z2430	2	SC1010 DECAL SC1510 DECAL SC1030 DECAL SC1530 DECAL SC1535 DECAL SC1550 DECAL	

Safety Light Operation

The Summers Safety Light Kit is equipped with a 7 pin connector which meets SAE J560 specification. To protect 7 pin connector, store in dust cap (8K8067) when not attached to towing vehicle.



General Maintenance Safety Practices

NOTE: Read the entire section before beginning work.

Before You Begin

- **YOU ARE RESPONSIBLE** for the safe maintenance of the Supercoultter.
- **DO NOT ALLOW CHILDREN** or other unauthorized persons within the Sueprcoultter operational area.
- **WEAR PERSONAL PROTECTIVE EQUIPMENT** which includes a hard hat, eye protection, work gloves and steel toed boots with slip resistant soles.
- **DO NOT MODIFY** the equipment or substitute parts in any way. Unauthorized modifications may impair the function and/or safety of the machine.
- **USE SUITABLE LIFTING DEVICE** for components which could cause personal injury.
- **BLOCK UP ANY RAISED PART** of the machine. Be sure machine is stable after blocking.
- **ALWAYS INSPECT LIFTING CHAINS AND SLINGS** for damage or wear.
- **BE SURE LIFTING DEVICE IS RATED TO HANDLE THE WEIGHT.**
- **STOP ENGINE**, place all controls in neutral, set parking brake, remove ignition key and wait for all moving parts to stop before servicing or adjusting.
- **BE SURE PRESSURE IS RELIEVED** from hydraulic circuits before servicing or disconnecting from tractor.
- **USE EXTREME CARE** when assembling, servicing or adjusting.

GENERAL ASSEMBLY SAFETY PRACTICES



YOU ARE RESPONSIBLE for the safe assembly of the machine.



DO NOT ALLOW CHILDREN or other unauthorized persons within the assembly area.



WEAR PERSONAL PROTECTIVE EQUIPMENT which includes a hard hat, eye protection, work gloves and steel toed boots with slip resistant soles.



DO NOT MODIFY the equipment or substitute parts in any way. Unauthorized modification may impair the function and/or safety of the machine.



USE SUITABLE LIFTING DEVICE for components which could cause personal injury.



BLOCK UP ANY RAISED PART of the machine. Be sure machine is stable after blocking.



ALWAYS INSPECT LIFTING CHAINS AND SLINGS for damage or wear.



BE SURE LIFTING DEVICE IS RATED TO HANDLE THE WEIGHT.



STOP ENGINE, place all controls in neutral, set parking brake, remove ignition key and wait for all moving parts to stop before servicing or adjusting.



BE SURE PRESSURE IS RELIEVED from hydraulic circuits before servicing or disconnecting from tractor.



USE EXTREME CARE when assembling, servicing or adjusting.

GENERAL ASSEMBLY INSTRUCTIONS

1. READ AND UNDERSTAND Operator's Manual before assembly of machine.
2. Reference to "RIGHT" and "LEFT" is determined when machine IS VIEWED FROM THE REAR.
3. Reference to "FORWARD" means TOWARDS THE TRACTOR.
4. Reference to "REAR" means AWAY FROM THE TRACTOR.

ASSEMBLY INSTRUCTIONS FOR 20 FT. SUPERCOULTER

Refer to the illustration on next page, parts section and follow these steps when assembling.

The machine should be placed in an area that allows ample room for assembly in the field position.



CAUTION: For safety purposes, always block equipment while working on it.

MAIN FRAME

Refer to page 72 when assembling main frame.

Place the center frame on stable supports approximately 3 feet off the floor. Bolt hitch to center frame together with hydraulic adjustable hitch as shown on pages 38, 39 and 96. Attach left and right wing frames using 1-1/2" diameter pins and flat washers. Secure pins through collar with 7/16" x 3-1/2" bolts and locknuts.

LIFT ARMS

Mount lift arm pivots (8T4100) to the front of the rear gang mount tubes at locations shown. Secure with 3/4" U-bolts, lockwashers and nuts. Do not fully tighten, pivots will need to be slid sideways for next step in assembly. Install lift arm assemblies on the center and wings using 1-1/2" dia. x 19" pins and secure with 7/16" x 3-1/2" bolts and lock nuts. Fully tighten retaining hardware.

Insert axle and hub assemblies. Apply good quality anti-seize to axles before inserting into receiver tubes. Retain with 1/2 x 4-1/2" bolts and locknuts. Install wheel and tire assemblies, retain with wheel nuts (torque required 240 ft-lbs).

A-FRAMES

Mount A-Frame assemblies (8J4220) above lift arm assemblies as shown. The center of the A-Frame assemblies should be 18" from the front of the rear gang mount tube. Secure A-Frame assemblies with 3/4" U-bolts, lockwashers and nuts. Install the adjustable cylinder bolts next. Note: use 1" I.D. cylinder attach eye bolts (8K1750) for 8" stroke main lift cylinders. Set nuts so bolts are in middle of the adjustment. These will be adjusted later for field conditions. Insure that cylinder attach holes are aligned when eye bolts are tightened.

MAIN LIFT HYDRAULIC SYSTEM

Refer to page 77 when assembling the main lift hydraulic system.

Attach cylinders to adjustment bolts and lift arms as shown. Note the different sized cylinders. Be sure all cylinders are in their proper location. Install all fittings into cylinders. Route hoses as shown. Use clamps provided to secure hoses to the frame. Tighten all fittings. Hydraulic hoses expand and shorten when pressurized, leave slack between all holddown clamps and do not overtighten.

IMPORTANT: Allow enough hose at hinge points to avoid pinching or stretching the hose.

WING LIFT HYDRAULIC SYSTEM

Refer to page 77 when assembling the wing lift system.

Mount wing lift cylinders to the adjustment bolts and route hoses as shown. Position adjustment bolts by starting end nuts so they are flush with bolt. Fill wing lift cylinders with oil by extending and retracting before attaching rod end of cylinders to wings.

Once lift cylinders have been filled with oil and cycle smoothly, connect rod end of cylinders to wing. Raise wings by fully retracting lift cylinders.



CAUTION: Stand clear whenever raising or lowering wings.

ASSEMBLY INSTRUCTIONS FOR 15 FT. and 30 FT. WIDE CENTER SUPERCOULTER

Refer to the illustration on next page, parts section and follow these steps when assembling.

The machine should be placed in an area that allows ample room for assembly in the field position.

15 FT. Supercoultter does not have folding wings, refer to center section instructions only for 15' machine assembly.



CAUTION: For safety purposes, always block equipment while working on it.

MAIN FRAME

Refer to page 73 when assembling main frame.

Place the center frame on stable supports approximately 3 feet off the floor. Bolt hitch to center frame together with hydraulic adjustable hitch as shown on pages 38k 39 and 96. Attach left and right wing frames using 1-1/2" diameter pins and flat washers. Secure pins through collar with 7/16" x 3-1/2" bolts and locknuts.

LIFT ARMS

Mount lift arm pivots (8T4100) to the front of the rear gang mount tubes at locations shown. Secure with 3/4" U-bolts, lockwashers and nuts. Do not fully tighten, pivots will need to be slid sideways for next step in assembly. Install lift arm assemblies on the center and wings using 1-1/2" dia. x 19" pins and secure with 7/16" x 3-1/2" bolts and lock nuts. Fully tighten retaining hardware.

Insert axle and hub assemblies. Apply good quality anti-seize to axles before inserting into receiver tubes. Retain with 1/2 x 3-3/4" bolts and locknuts. Install wheel and tire assemblies, retain with wheel bolts (torque required 170 ft-lbs).

A-FRAMES

Mount A-Frame assemblies (8J4220) above lift arm assemblies as shown. The center of the A-Frame assemblies should be 18" from the front of the rear gang mount tube. Secure A-Frame assemblies with 3/4" U-bolts, lockwashers and nuts. Install the adjustable cylinder bolts next. Note: use 1" I.D. cylinder attach eye bolts (8K1750) for 8" stroke main lift cylinders. Set nuts so bolts are in middle of the adjustment. These will be adjusted later for field conditions. Insure that cylinder attach holes are aligned when eye bolts are tightened.

TRANSPORT LOCK

Mount the transport locks (8T4235) onto the front center truss member. Secure transport locks with 3/4" U-bolts, lockwashers and nuts. Do not tighten nuts, transport lock will need to be adjusted after wings are folded into transport position. Mount cylinder transport lock holders (8T4380) on outer center frame tube. Secure holders with 1/2" U-bolts, lockwashers and nuts..

MAIN LIFT HYDRAULIC SYSTEM

Refer to page 78 when assembling the main lift hydraulic system.

Attach cylinders to adjustment bolts and lift arms as shown. Note the different sized cylinders. Be sure all cylinders are in their proper location. Install all fittings into cylinders. Route hoses as shown. Use clamps provided to secure hoses to the frame. Tighten all fittings. Hydraulic hoses expand and shorten when pressurized, leave slack between all holddown clamps and do not overtighten.

IMPORTANT: Allow enough hose at hinge points to avoid pinching or stretching the hose.

WING LIFT HYDRAULIC SYSTEM

Refer to page 83 when assembling the wing lift system.

Mount wing lift cylinders to the adjustment bolts and route hoses as shown. Position adjustment bolts by starting end nuts so they are flush with bolt. Fill wing lift cylinders with oil by extending and retracting before attaching rod end of cylinders to wings.

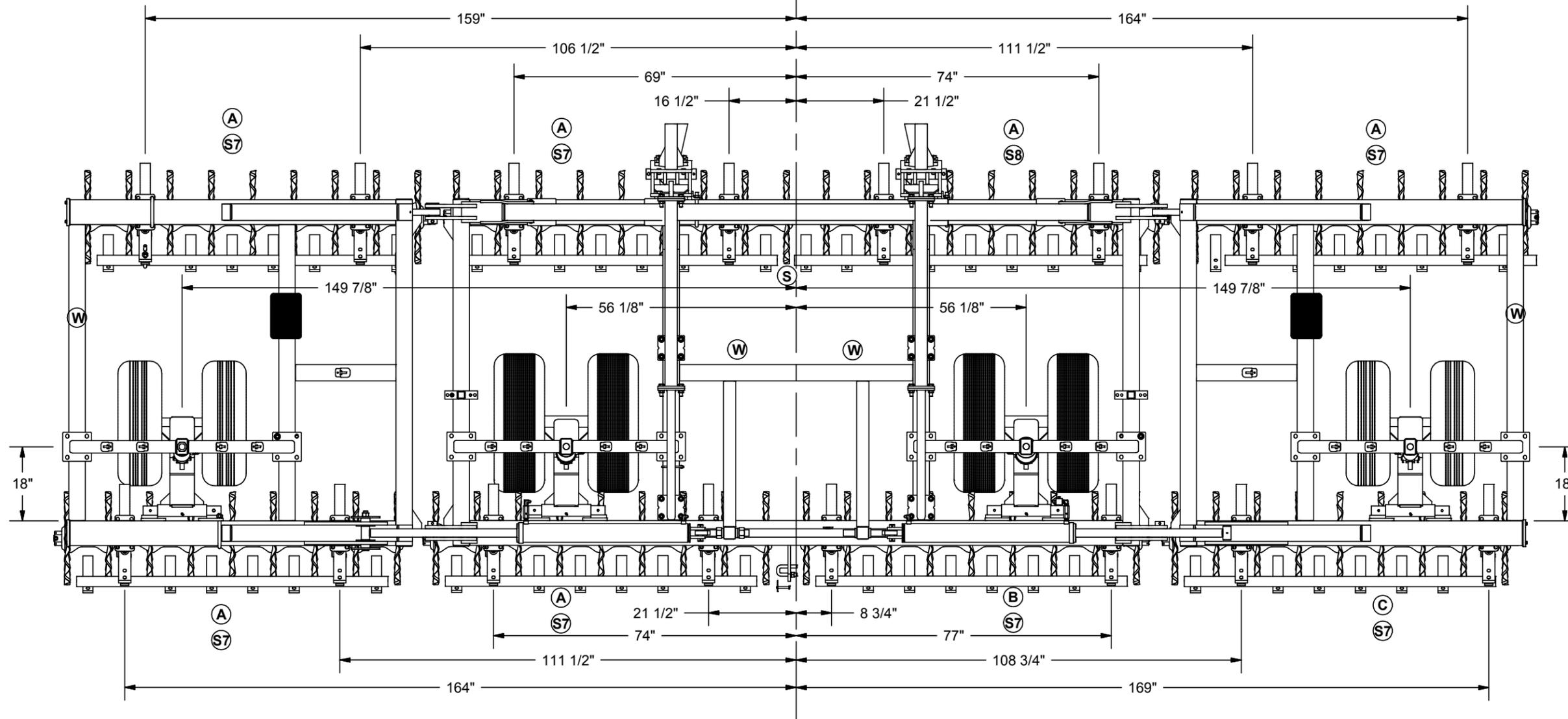
Once lift cylinders have been filled with oil and cycle smoothly, connect rod end of cylinders to wing lift slot. Do not over tighten lock nut. Pivot bolt MUST rotate freely. Raise wings by fully retracting lift cylinders.



CAUTION: Stand clear whenever raising or lowering wings.

With lift cylinders fully retracted, tighten the end (inside) adjustment nut until the wing rests on wing stops. Continue to tighten inside adjustment nut until rod end bolt contacts inside of wing lift slot. Then tighten outside nut to lock in place. Lower wings back to field position for gang mounting.

SUPERCOLULTER LAYOUT 15' & 30' WIDE CENTER TOP VIEW



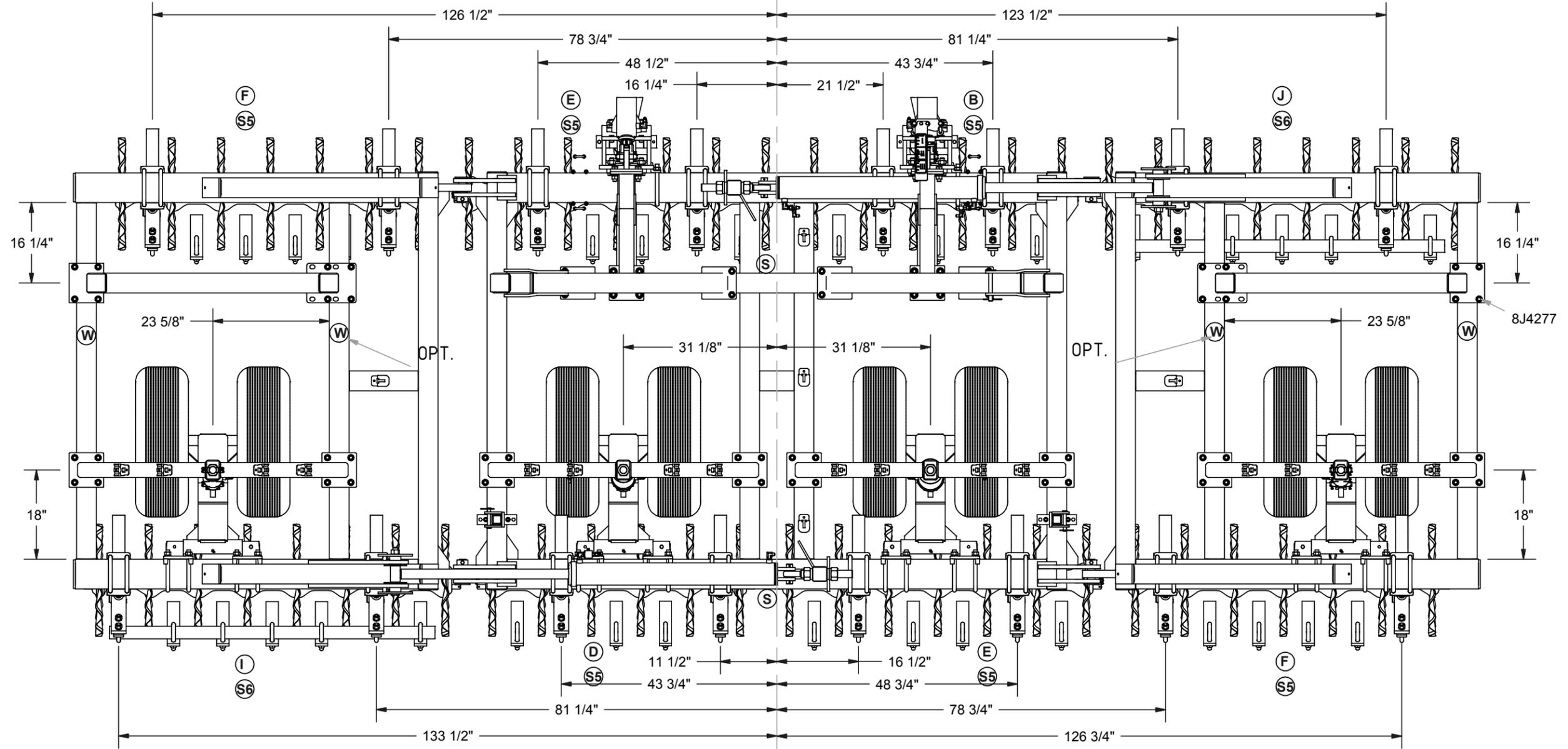
- (W) = WEIGHT LOCATIONS
- (A) = 8J2290 (9 BLADE W/BRG IN 2&3)
- (B) = 8J2292 (9 BLADE W/BRG IN 1&2)
- (C) = 8J2294 (9 BLADE W/BRG IN 2&3/1&2)
- (S7) = 8J3276 (SCRAPER MNTG TUBE - 76")
- (S8) = 8J3286 (SCRAPER MNTG TUBE - 86")
- (S) = BETWEEN GANG SCRAPER

NOTE: GANG PART NUMBERS WITH FLAT BLADES END WITH "F",
TURBO BLADES END WITH "T".

3/11/2013

9J3000W.iam/SCLAYOUT15_30

SUPERCOLULTER LAYOUT 23' NARROW CENTER TOP VIEW



- (W) = WEIGHT LOCATIONS
- (B) = 8J2260 (6 BLADE W/BRG 2&3)
- (D) = 8J2264 (6 BLADE W/BRG 2&3/1&2)
- (E) = 8J2270 (7 BLADE W/BRG 2&3)
- (F) = 8J 2272 (7 BLADE W/BRG 1&3)
- (I) = 8J2284 (8 BLADE W/BRG 1&2/2&3)
- (J) = 8J2286 *8BLADE W/BRG 2&3 OFFSET)

- (S5) = 8J3256 (SCRAPER MNTG TUBE - 56")
- (S6) = 8J3266 (SCRAPER MNTG TUBE - 66")
- (S) = SCRAPER - BETWEEN GANGS

NOTE: GANG PART NUMBERS WITH FLAT BLADES END WITH "F", TURBO BLADES END WITH "T".

3/18/2015

9J2300.iam/SCLAYOUT23NC

ASSEMBLY INSTRUCTIONS FOR 23 FT. SUPERCOUNTER

Refer to the illustration on previous page, parts section and follow these steps when assembling.

The machine should be placed in an area that allows ample room for assembly in the field position.



CAUTION: For safety purposes, always block equipment while working on it.

MAIN FRAME

Refer to page 74 when assembling main frame.

Place the center frame on stable supports approximately 3 feet off the floor. Bolt hitch to center frame together with hydraulic adjustable hitch as shown on pages 38, 39 and 96. Attach left and right wing frames using 1-1/2" diameter pins and flat washers. Secure pins through collar with 7/16" x 3-1/2" bolts and lock nuts.

LIFT ARMS

Mount lift arm pivots (8T4100) to the front of the rear gang mount tubes at locations shown. Secure with 3/4" U-bolts, lockwashers and nuts. Do not fully tighten, pivots will need to be slid sideways for next step in assembly. Install lift arm assemblies on the center and wings using 1-1/2" dia. x 19" pins and secure with 7/16" x 3-1/2" bolts and locknuts. Fully tighten retaining hardware.

Insert axle and hub assemblies. Apply good quality anti-seize to axles before inserting into receiver tubes. Retain with 1/2 x 3-3/4" bolts and locknuts. Install wheel and tire assemblies, retain with 9/16" wheel bolts (torque required 170 ft-lbs).

A-FRAMES

Mount A-Frame assemblies (8J4220) above lift arm assemblies as shown. The center of the A-Frame assemblies should be 18" from the front of the rear gang mount tube. Secure A-Frame assemblies with 3/4" U-bolts, lockwashers and nuts. Install the adjustable cylinder bolts next. Note: use 1" I.D. cylinder attach eye bolts (8K1750) for 8" stroke main lift cylinders. Set nuts so bolts are in middle of the adjustment. These will be adjusted later for field conditions. Insure that cylinder attach holes are aligned when eye bolts are tightened.

TRANSPORT LOCK

Mount the transport locks (8T4325) onto the upper center truss member. Secure transport locks with 3/4" U-bolts, lockwashers and nuts. Do not tighten nuts, transport lock will need to be adjusted after wings are folded into transport position. Mount cylinder transport lock holders (8T4380) on outer center frame tube. Secure holders with 1/2" U-bolts, lockwashers and nuts. Install Cross Tubes (8J4277) above wing frames and lined up with upper center truss member as shown on previous page. Secure with 3/4" u-bolts, lockwashers and nuts.

MAIN LIFT HYDRAULIC SYSTEM

Refer to page 79 when assembling the main lift hydraulic system.

Attach cylinders to adjustment bolts and lift arms as shown. Note the different sized cylinders. Be sure all cylinders are in their proper location. Install all fittings into cylinders. Route hoses as shown. Use clamps provided to secure hoses to the frame. Tighten all fittings. Hydraulic hoses expand and shorten when pressurized, leave slack between all holddown clamps and do not overtighten.

IMPORTANT: Allow enough hose at hinge points to avoid pinching or stretching the hose.

WING LIFT HYDRAULIC SYSTEM

Refer to page 82 when assembling the wing lift system.

Mount wing lift cylinders to the adjustment bolts and route hoses as shown. Position adjustment bolts by starting end nuts so they are flush with bolt. Fill wing lift cylinders with oil by extending and retracting before attaching rod end of cylinders to wings.

Once lift cylinders have been filled with oil and cycle smoothly, connect rod end of cylinders to wing lift slot. Do not over tighten lock nut. Pivot bolt MUST rotate freely. Raise wings by fully retracting lift cylinders.



CAUTION: Stand clear whenever raising or lowering wings.

With lift cylinders fully retracted, tighten the end (inside) adjustment nut until the wing rests on wing stops. Continue to tighten inside adjustment nut until rod end bolt contacts inside of wing lift slot. Then tighten outside nut to lock in place. Slide Transport Locks (8T4325) against wing stub tubes and tighten nuts. Lower wings back to field position for gang mounting.

ASSEMBLY INSTRUCTIONS FOR 30 FT. NARROW CENTER SUPERCOULTER

Refer to the illustration on next page, parts section and follow these steps when assembling.

The machine should be placed in an area that allows ample room for assembly in the field position.



CAUTION: For safety purposes, always block equipment while working on it.

MAIN FRAME

Refer to page 74 when assembling main frame.

Place the center frame on stable supports approximately 3 feet off the floor. Bolt hitch to center frame together with hydraulic adjustable hitch as shown on pages 38, 39 and 96. Attach left and right wing frames using 1-1/2" diameter pins and flat washers. Secure pins through collar with 7/16" x 3-1/2" bolts and locknuts. Install wing lift braces (8J4240) on center.

LIFT ARMS – 8J4140 (2" RCVR) WING, 8J4145 (2-1/2" RCVR) CENTER

Mount lift arm pivots (8T4100) to the front of the rear gang mount tubes at locations shown. Secure with 3/4" U-bolts, lockwashers and nuts. Do not fully tighten, pivots will need to be slid sideways for next step in assembly. Install lift arm assemblies on the center and wings using 1-1/2" dia. x 19" pins and secure with 7/16" x 3-1/2" bolts and locknuts. Fully tighten retaining hardware.

Insert axle and 6-bolt hub assemblies on wings. Insert axle and 8-bolt hub assemblies on center. Apply good quality anti-seize to axles before inserting into receiver tubes. Retain with 1/2 x 3-3/4" bolts (1/2 X 4-1/2" center) and locknuts. Install wheel and tire assemblies, retain with 9/16" wheel bolts (wings - torque required 170 ft-lbs) and wheel nuts (center section – torque required 240 ft-lbs).

A-FRAMES

Mount A-Frame assemblies (8J4220) above lift arm assemblies as shown. The center of the A-Frame assemblies should be 18" from the front of the rear gang mount tube. Secure A-Frame assemblies with 3/4" U-bolts, lockwashers and nuts. Install the adjustable cylinder bolts next. Note: use 1" I.D. cylinder attach eye bolts (8K1750) for 8" stroke main lift cylinders. Set nuts so bolts are in middle of the adjustment. These will be adjusted later for field conditions. Insure that cylinder attach holes are aligned when eye bolts are tightened.

TRANSPORT LOCK

Mount transport locks (8T4325) onto the upper center truss member. Secure transport locks with 3/4" U-bolts, lockwashers and nuts. Do not tighten nuts, transport lock will need to be adjusted after wings are folded into transport position. Mount cylinder transport lock holders (8T4380) on outer center frame tube. Secure holders with 1/2" U-bolts, lockwashers and nuts. Install Cross Tubes (8J4277) above wing frames and lined up with upper center truss member as shown on next page. Secure with 3/4" u-bolts, lockwashers and nuts.

MAIN LIFT HYDRAULIC SYSTEM

Refer to page 80 when assembling the main lift hydraulic system.

Attach cylinders to adjustment bolts and lift arms as shown. Note the different sized cylinders. Be sure all cylinders are in their proper location. Install all fittings into cylinders. Route hoses as shown. Use clamps provided to secure hoses to the frame. Tighten all fittings. Hydraulic hoses expand and shorten when pressurized, leave slack between all holddown clamps and do not overtighten.

IMPORTANT: Allow enough hose at hinge points to avoid pinching or stretching the hose.

WING LIFT HYDRAULIC SYSTEM

Refer to page 82 when assembling the wing lift system.

Mount wing lift cylinders to the adjustment bolts and route hoses as shown. Position adjustment bolts by starting end nuts so they are flush with bolt. Fill wing lift cylinders with oil by extending and retracting before attaching rod end of cylinders to wings.

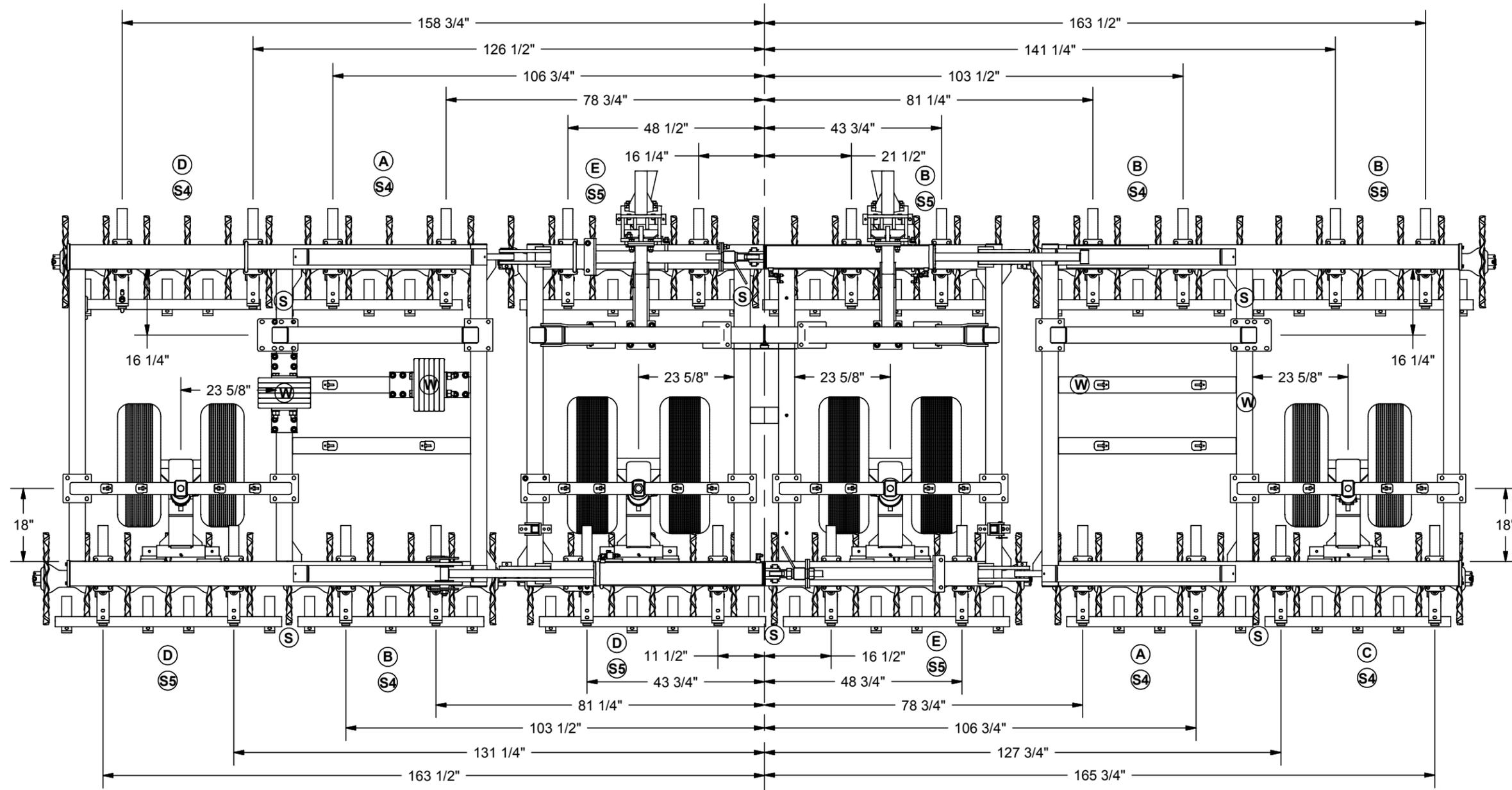
Once lift cylinders have been filled with oil and cycle smoothly, connect rod end of cylinders to wing lift slot. Do not over tighten lock nut. Pivot bolt MUST rotate freely. Raise wings by fully retracting lift cylinders.



CAUTION: Stand clear whenever raising or lowering wings.

With lift cylinders fully retracted, tighten the end (inside) adjustment nut until the wing rests on wing stops. Continue to tighten inside adjustment nut until rod end bolt contacts inside of wing lift slot. Then tighten outside nut to lock in place. Slide Transport Locks (8T4325) against wing stub tube and tighten nuts. Lower wings back to field position for gang mounting.

SUPERCOLULTER LAYOUT 30' NARROW CENTER TOP VIEW



- (W) = WEIGHT LOCATIONS
- (A) = 8J2252 (5 BLADE W/BRG 1&2)
- (B) = 8J2260 (6 BLADE W/BRG 2&3)
- (C) = 8J2262 (6 BLADE W/BRG 1&2)
- (D) = 8J2264 (6 BLADE W/BRG 2&3/1&2)

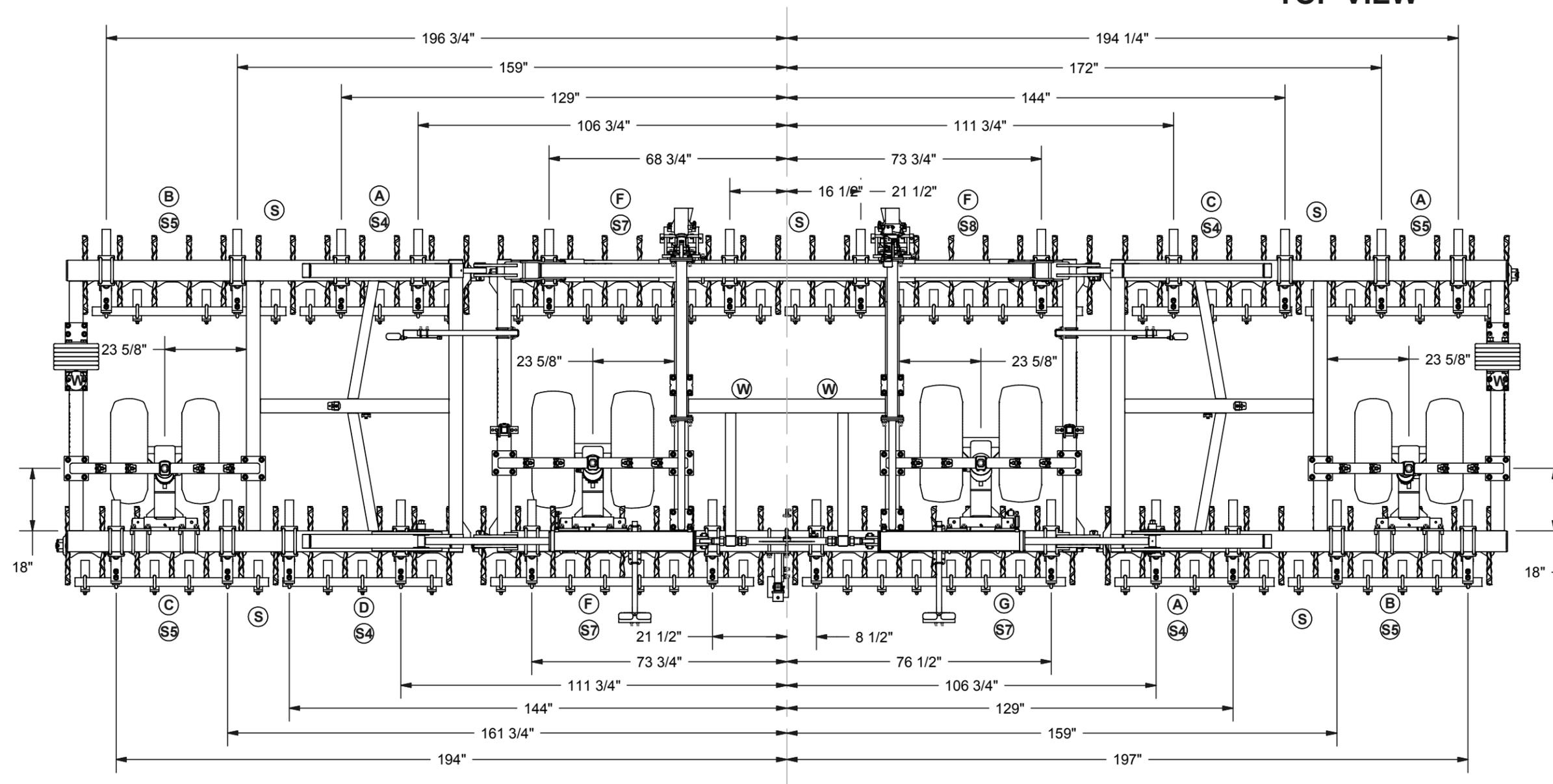
- (E) = 8J2270 (7 BLADE W/BRG 2&3)
- (S4) = 8J3246 (SCRAPER MNTNG TUBE - 46")
- (S5) = 8J3256 (SCRAPER MNTNG TUBE - 56")
- (S) = SCRAPER - BETWEEN GANGS

NOTE: GANG PART NUMBERS WITH FLAT BLADES END WITH "F",
TURBO BLADES END WITH "T".

4/23/2013

9J3000.iam/SCLAYOUT30NC

SUPERCOUNTER LAYOUT 35' TOP VIEW



- (W) = WEIGHT LOCATION
- (A) = 8J2260 (6 BLADE W/BRG 2&3)
- (B) = 8J2262 (6 BLADE W/BRG 1&2)
- (C) = 8J2264 (6 BLADE W/BRG 2&3/1&2)
- (D) = 8J2265 (6 BLADE W/BRG 1&2/2&3)
- (F) = 8J2290 (9 WAVE BLADE W/BRG 2&3)
- (G) = 8J2292 (9 WAVE BLADE W/BRG 1&2)
- (S4) = 8J3246 (SCRAPER MNTNG TUBE - 46")
- (S5) = 8J3256 (SCRAPER MNTNG TUBE - 56")
- (S7) = 8J3276 (SCRAPER MNTNG TUBE - 76")
- (S8) = 8J3286 (SCRAPER MNTNG TUBE - 86")
- (S) = SCRAPER - BETWEEN GANGS

3/14/2017

9J3500.iam/35' SC GANG LAYOUT

ASSEMBLY INSTRUCTIONS FOR 35 FT. SUPERCOULTER

Refer to the illustration on previous page, parts section and follow these steps when assembling.

The machine should be placed in an area that allows ample room for assembly in the field position.



CAUTION: For safety purposes, always block equipment while working on it.

MAIN FRAME

Refer to page 75 when assembling main frame.

Place the center frame on stable supports approximately 3 feet off the floor. Bolt hitch to center frame together with hydraulic adjustable hitch as shown on pages 38, 39 and 96. Attach left and right wing frames using 1-1/2" diameter pins and flatwashers. Secure pins through collar with 7/16" x 3-1/2" bolts and locknuts.

LIFT ARMS – 8J4140 (2" RCVR) WING, 8J4145 (2-1/2" RCVR) CENTER

Mount lift arm pivots (8T4100) to the front of the rear gang mount tubes at locations shown. Secure with 3/4" U-bolts, lockwashers and nuts. Do not fully tighten, pivots will need to be slid sideways for next step in assembly. Install lift arm assemblies on the center and wings using 1-1/2" dia. x 19" pins and secure with 7/16" x 3-1/2" bolts and locknuts. Fully tighten retaining hardware.

Insert axle and 6-bolt hub assemblies on wings. Insert axle and 8-bolt hub assemblies on center. Apply good quality anti-seize to axles before inserting into receiver tubes. Retain with 1/2 x 3-3/4" bolts (1/2 x 4-1/2" center) and locknuts. Install wheel and tire assemblies, retain with 9/16" wheel bolts (wings - torque required 170 ft-lbs) and wheel nuts (center section – torque required 240 ft-lbs).

A-FRAMES

Mount A-Frame assemblies (8J4220) above lift arm assemblies as shown. The center of the A-Frame assemblies should be 18" from the front of the rear gang mount tube. Secure A-Frame assemblies with 3/4" U-bolts, lockwashers and nuts. Install the adjustable cylinder bolts next. Note: use 1" I.D. cylinder attach eye bolts (8K1750) for 8" stroke main lift cylinders. Set nuts so bolts are in middle of the adjustment. These will be adjusted later for field conditions. Insure that cylinder attach holes are aligned when eye bolts are tightened.

TRANSPORT LOCK

Mount transport locks (8T4325) onto the front center truss member. Secure transport locks with 3/4" U-bolts, lockwashers and nuts. Do not tighten nuts, transport lock will need to be adjusted after wings are folded into transport position. Mount cylinder transport lock holders (8T4380) on outer center frame tube. Secure holders with 1/2" U-bolts, lockwashers and nuts.

MAIN LIFT HYDRAULIC SYSTEM

Refer to page 81 when assembling the main lift hydraulic system.

Attach cylinders to adjustment bolts and lift arms as shown. Note the different sized cylinders. Be sure all cylinders are in their proper location. Install all fittings into cylinders. Route hoses as shown. Use clamps provided to secure hoses to the frame. Tighten all fittings. Hydraulic hoses expand and shorten when pressurized, leave slack between all hold-down clamps and do not overtighten.

IMPORTANT: Allow enough hose at hinge points to avoid pinching or stretching the hose.

WING LIFT HYDRAULIC SYSTEM

Refer to page 83 when assembling the wing lift system.

Mount wing lift cylinders to the adjustment bolts and route the hoses as shown. Position adjustment bolts by starting end nuts so they are flush with bolt. Fill wing lift cylinders with oil by extending and retracting before attaching rod end of cylinders to wings.

Once lift cylinders have been filled with oil and cycle smoothly, connect rod end of cylinders to wing lift slot. Do not over tighten lock nut. Pivot bolt must rotate freely. Raise wings by fully retracting lift cylinders.



CAUTION: Stand clear whenever raising or lowering wings.

With lift cylinders fully retracted, tighten the end (inside) adjustment nut until the wing rests on wing stops. Continue to tighten inside adjustment nut until rod end bolt contacts inside of wing lift slot. Then tighten outside nut to lock in place. Slide Transport Locks (8T4325) against wing and tighten nuts. Lower wings back to field position for gang mounting.

ASSEMBLY INSTRUCTIONS FOR 40 FT. SUPERCOULTER

Refer to the illustration on previous page, parts section and follow these steps when assembling.

The machine should be placed in an area that allows ample room for assembly in the field position.



CAUTION: For safety purposes, always block equipment while working on it.

MAIN FRAME

Refer to page 75 when assembling main frame.

Place the center frame on stable supports approximately 3 feet off the floor. Bolt hitch to center frame together with hydraulic adjustable hitch as shown on pages 38, 39 and 96. Attach left and right wing frames using 1-1/2" diameter pins and flatwashers. Secure pins through collar with 7/16" x 3-1/2" bolts and locknuts.

LIFT ARMS – 8J4145 (2-1/2" RCVR)

Mount lift arm pivots (8T4100) to the front of the rear gang mount tubes at locations shown. Secure with 3/4" U-bolts, lockwashers and nuts. Do not fully tighten, pivots will need to be slid sideways for next step in assembly. Install lift arm assemblies on the center and wings using 1-1/2" dia. x 19" pins and secure with 7/16" x 3-1/2" bolts and locknuts. Fully tighten retaining hardware.

Insert axle and 812 hub assemblies on wing, 817 hub assembly on center. Apply good quality anti-seize to axles before inserting into receiver tubes. Retain with 1/2 x 4-1/2" bolts and locknuts. Install wheel and tire assemblies, retain with wheel nuts (torque required 240 ft-lbs).

A-FRAMES

Mount A-Frame assemblies (8J4220) above lift arm assemblies as shown. The center of the A-Frame assemblies should be 18" from the front of the rear gang mount tube. Secure A-Frame assemblies with 3/4" U-bolts, lockwashers and nuts. Install the adjustable cylinder bolts next. Note: use 1" I.D. cylinder attach eye bolts (8K1750) for 8" stroke main lift cylinders. Set nuts so bolts are in middle of the adjustment. These will be adjusted later for field conditions. Insure that cylinder attach holes are aligned when eye bolts are tightened.

TRANSPORT LOCK

Mount transport locks (8T4325) onto the front center truss member. Secure transport locks with 3/4" U-bolts, lockwashers and nuts. Do not tighten nuts, transport lock will need to be adjusted after wings are folded into transport position. Mount cylinder transport lock holders (8T4380) on outer center frame tube. Secure holders with 1/2" U-bolts, lockwashers and nuts.

MAIN LIFT HYDRAULIC SYSTEM

Refer to page 81 when assembling the main lift hydraulic system.

Attach cylinders to adjustment bolts and lift arms as shown. Note the different sized cylinders. Be sure all cylinders are in their proper location. Install all fittings into cylinders. Route hoses as shown. Use clamps provided to secure hoses to the frame. Tighten all fittings. Hydraulic hoses expand and shorten when pressurized, leave slack between all hold-down clamps and do not overtighten.

IMPORTANT: Allow enough hose at hinge points to avoid pinching or stretching the hose.

WING LIFT HYDRAULIC SYSTEM

Refer to page 83 when assembling the wing lift system.

Mount wing lift cylinders to the adjustment bolts and route the hoses as shown. Position adjustment bolts by starting end nuts so they are flush with bolt. Fill wing lift cylinders with oil by extending and retracting before attaching rod end of cylinders to wings.

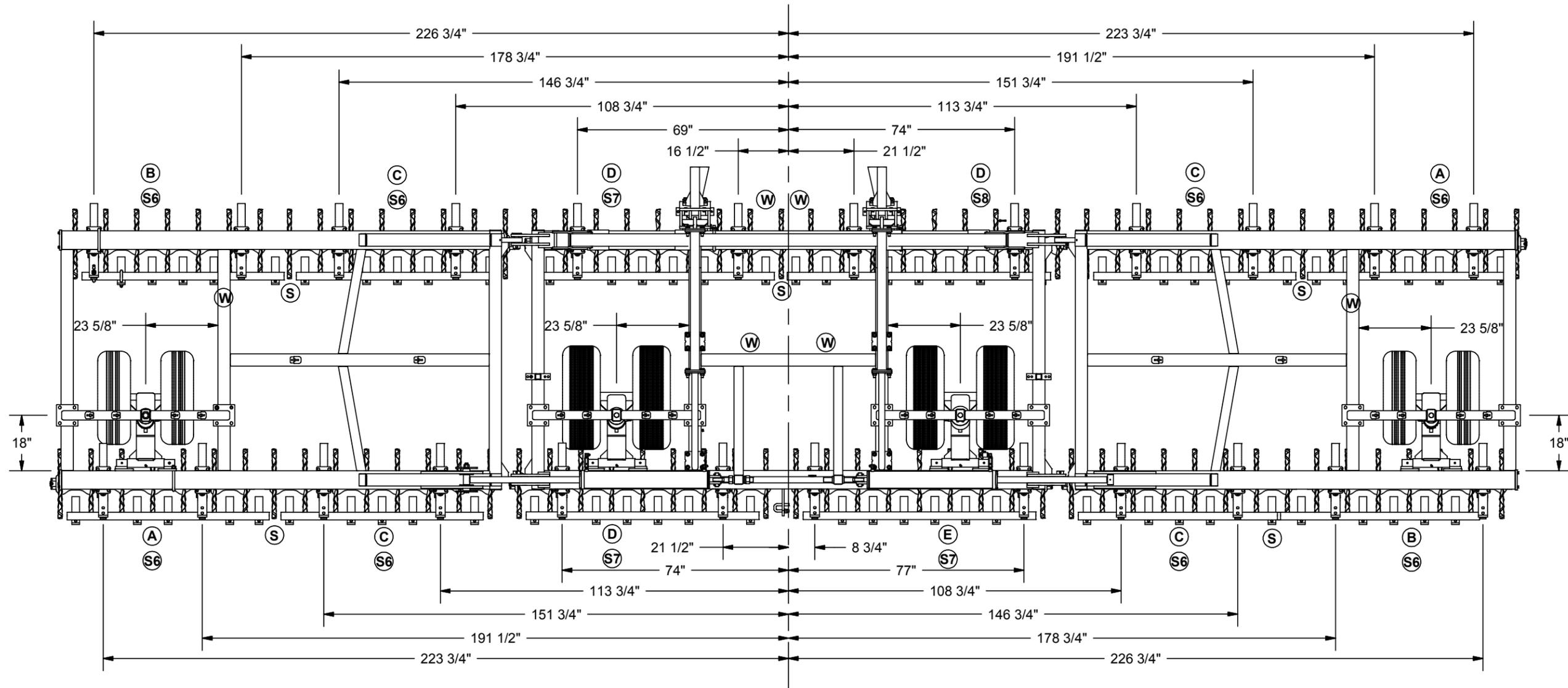
Once lift cylinders have been filled with oil and cycle smoothly, connect rod end of cylinders to wing lift slot. Do not over tighten lock nut. Pivot bolt must rotate freely. Raise wings by fully retracting lift cylinders.



CAUTION: Stand clear whenever raising or lowering wings.

With lift cylinders fully retracted, tighten the end (inside) adjustment nut until the wing rests on wing stops. Continue to tighten inside adjustment nut until rod end bolt contacts inside of wing lift slot. Then tighten outside nut to lock in place. Slide Transport Locks (8T4325) against wing and tighten nuts. Lower wings back to field position for gang mounting.

SUPERCOUNTER LAYOUT 40' TOP VIEW



- (W) = WEIGHT LOCATIONS
- (A) = 8J2270 (7 BLADE W/BRG IN 2&3)
- (B) = 8J2272 (7 BLADE W/BRG IN 1&2)
- (C) = 8J2280 (8 BLADE W/BRG IN 2&3)
- (D) = 8J2290 (9 BLADE W/BRG IN 2&3)
- (E) = 8J2292 (9 BLADE W/BRG IN 1&2)

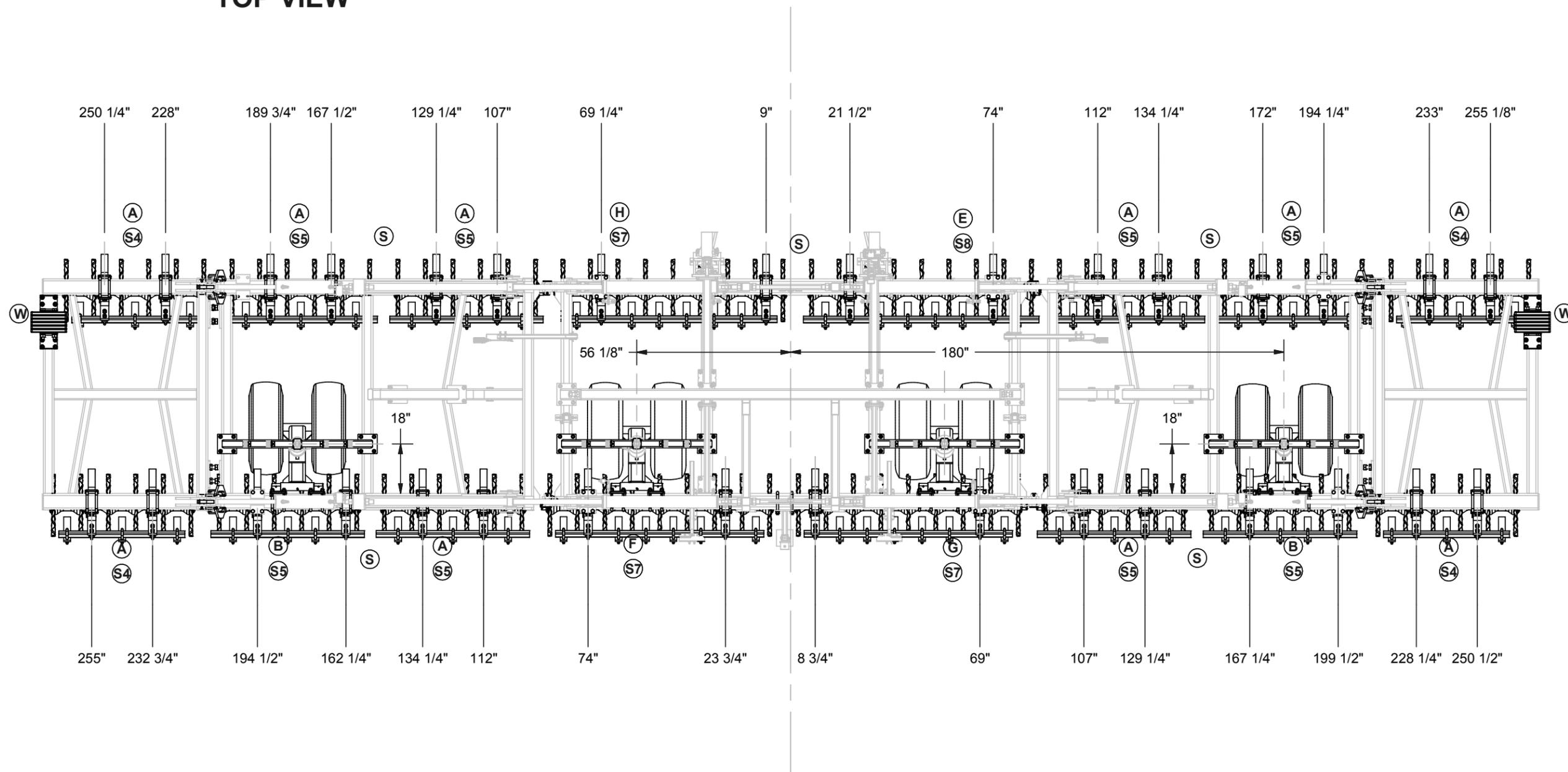
- (S) = SCRAPER - BETWEEN GANGS
- (S6) = 8J3266 (SCRAPER MNTNG TUBE - 66")
- (S7) = 8J3276 (SCRAPER MNTNG TUBE - 76")
- (S8) = 8J3286 (SCRAPER MNTNG TUBE - 87")

NOTE: GANG PART NUMBERS WITH FLAT BLADES END WITH "F", TURBO BLADES END WITH "T".

3/12/2013

9J4000.iam/SCLAYOUT40

SUPERCOUNTER LAYOUT 45' TOP VIEW



(W) = WEIGHT LOCATIONS

(A) = 8J2260 (6 BLADE WITH BRG IN 2&3)

(B) = 8J2264 (6 BLADE WITH BRG IN 2&3/1&2)

(E) = 8J2290 (9 BLADE WITH BRG IN 2&3)

(F) = 8J2291 (9 BLADE WITH BRG IN 2&3 SPCL)

(G) = 8J2296 (9 BLADE WITH BRG IN 1&2/2&3)

(H) = 8J2298 (9 BLADE WITH BRG IN 2&3/1&2)

(S) = SCRAPER - BETWEEN GANGS

(S4) = 8J3246 (SCRAPER MNTG TUBE - 46")

(S5) = 8J3256 (SCRAPER MNTG TUBE - 56")

(S7) = 8J3276 (SCRAPER MNTG TUBE - 76")

(S8) = 8J3286 (SCRAPER MNTG TUBE - 86")

NOTE: GANG PART NUMBERS WITH FLAT BLADES END WITH "F",
TURBO BLADES END WITH "T", NOTCHED BLADES END WITH "N".

3/14/2017

9J4500.iam/SCLAYOUT45

ASSEMBLY INSTRUCTIONS FOR 45 FT. SUPERCOUNTER

Refer to the illustration on previous page, parts section and follow these steps when assembling.

The machine should be placed in an area that allows ample room for assembly in the field position.



CAUTION: For safety purposes, always block equipment while working on it.

MAIN FRAME

Refer to pages 30 and 33 when assembling main frame.

Place the center frame on stable supports approximately 3 feet off the floor. Bolt hitch to center frame together with hydraulic adjustable hitch as shown on pages 38, 39 and 96. Attach left and right wing frames using 1-1/2" diameter pins and flatwashers. Secure pins through collar with 7/16" x 3-1/2" bolts and locknuts.

LIFT ARMS – 8J4145 (2-1/2" RCVR)

Mount lift arm pivots (8T4100) to the front of the rear gang mount tubes at locations shown. Note optional location to match 22" row spacing. Secure with 3/4" U-bolts, lockwashers and nuts. Do not fully tighten, pivots will need to be slid sideways for next step in assembly. Install lift arm assemblies on the center and wings using 1-1/2" dia. x 19" pins and secure with 7/16" x 3-1/2" bolts and locknuts. Fully tighten retaining hardware.

Insert axle and HD817 8-bolt hub assemblies on center. Insert axle and HD812 8-bolt hub assemblies on wing. Apply good quality anti-seize to axles before inserting into receiver tubes. Retain with 1/2" x 4-1/2" bolts and locknuts. Install wheel and tire assemblies, retain with wheel nuts (torque required 240 ft-lbs).

A-FRAMES

Mount A-Frame assemblies (8J4225) above lift arm assemblies as shown. Lift arms can be installed offset to match 22" row spacing. The center of the A-Frame assemblies should be 18" from the front of the rear gang mount tube. Secure A-Frame assemblies with 3/4" U-bolts, lockwashers and nuts. Install the adjustable cylinder bolts next. Note: use 1" I.D. cylinder attach eye bolts (8K1750) for 8" stroke main lift cylinders. Set nuts so bolts are in middle of the adjustment. These will be adjusted later for field conditions. Insure that cylinder attach holes are aligned when eye bolts are tightened.

TRANSPORT LOCK

Mount transport lock. Secure transport locks with 3/4" U-bolts, lockwashers and nuts. Transport lock bolt (8J4600) will need to be adjusted after wings are folded into transport position. Mount cylinder transport lock holders (8T4380). Secure holders with 1/2" U-bolts, lockwashers and nuts.

MAIN LIFT HYDRAULIC SYSTEM

Refer to page 84 when assembling the main lift hydraulic system.

Attach cylinders to adjustment bolts and lift arms as shown. Note the different sized cylinders. Ensure all cylinders are in their proper location. Install all fittings into cylinders. Route hoses as shown. Use clamps provided to secure hoses to the frame. Tighten all fittings. Hydraulic hoses expand and shorten when pressurized, leave slack between all hold-down clamps and do not overtighten.

IMPORTANT: Allow enough hose at hinge points to avoid pinching or stretching the hose.

WING LIFT HYDRAULIC SYSTEM

Refer to page 85 when assembling the wing lift system.

Mount wing lift cylinders to the adjustment bolts and route the hoses as shown. Position adjustment bolts by starting end nuts so they are flush with bolt. Fill wing lift cylinders with oil by extending and retracting before attaching rod end of cylinders to wings.

Once Part One Wing lift cylinders have been filled with oil and cycle smoothly, connect rod end of cylinders to wing lift slot. Do not over tighten lock nut. Pivot bolt must rotate freely. Raise wings by fully retracting lift cylinders.



CAUTION: Stand clear whenever raising or lowering wings.

With lift cylinders fully retracted, tighten the end (inside) adjustment nut until the wing rests on wing stops. Continue to tighten inside adjustment nut until rod end bolt contacts inside of wing lift slot. Then tighten outside nut to lock in place. Adjust Transport Lock (8J4600) against wing and tighten jam nuts. Lower wings back to field position for gang mounting.

ASSEMBLY INSTRUCTIONS FOR 50 FT. SUPERCOUNTER

Refer to the illustration on previous page, parts section and follow these steps when assembling.
The machine should be placed in an area that allows ample room for assembly in the field position.



CAUTION: For safety purposes, always block equipment while working on it.

MAIN FRAME

Refer to pages 34 and 35 when assembling main frame.

Place the center frame on stable supports approximately 3 feet off the floor. Bolt hitch to center frame together with hydraulic adjustable hitch as shown on pages 38, 39 and 96. Attach left and right wing frames using 1-1/2" diameter pins and flatwashers. Secure pins through collar with 7/16" x 3-1/2" bolts and locknuts.

LIFT ARMS – 8J4145 (2-1/2" RCVR)

Mount lift arm pivots (8T4100) to the front of the rear gang mount tubes at locations shown. Secure with 3/4" U-bolts, lockwashers and nuts. Do not fully tighten, pivots will need to be slid sideways for next step in assembly. Install lift arm assemblies on the center and wings using 1-1/2" dia. x 19" pins and secure with 7/16" x 3-1/2" bolts and locknuts. Fully tighten retaining hardware.

Insert axle and HD817 8-bolt hub assemblies. Apply good quality anti-seize to axles before inserting into receiver tubes. Retain with 1/2 x 4-1/2" bolts and locknuts. Install wheel and tire assemblies, retain with wheel nuts (torque required 240 ft-lbs).

A-FRAMES

Mount A-Frame assemblies (8J4223) above lift arm assemblies as shown. The center of the A-Frame assemblies should be 18" from the front of the rear gang mount tube. Secure A-Frame assemblies with 3/4" U-bolts, lockwashers and nuts. Install the adjustable cylinder bolts next. Note: use 1" I.D. cylinder attach eye bolts (8K1750) for 8" stroke main lift cylinders. Set nuts so bolts are in middle of the adjustment. These will be adjusted later for field conditions. Insure that cylinder attach holes are aligned when eye bolts are tightened.

TRANSPORT LOCK

Mount transport lock. Secure transport locks with 3/4" U-bolts, lockwashers and nuts. Transport lock bolt (8J4600) will need to be adjusted after wings are folded into transport position. Mount cylinder transport lock holders (8T4380). Secure holders with 1/2" U-bolts, lockwashers and nuts.

MAIN LIFT HYDRAULIC SYSTEM

Refer to page 84 when assembling the main lift hydraulic system.

Attach cylinders to adjustment bolts and lift arms as shown. Note the different sized cylinders. Ensure all cylinders are in their proper location. Install all fittings into cylinders. Route hoses as shown. Use clamps provided to secure hoses to the frame. Tighten all fittings. Hydraulic hoses expand and shorten when pressurized, leave slack between all hold-down clamps and do not overtighten.

IMPORTANT: Allow enough hose at hinge points to avoid pinching or stretching the hose.

WING LIFT HYDRAULIC SYSTEM

Refer to page 85 when assembling the wing lift system.

Mount wing lift cylinders to the adjustment bolts and route the hoses as shown. Position adjustment bolts by starting end nuts so they are flush with bolt. Fill wing lift cylinders with oil by extending and retracting before attaching rod end of cylinders to wings.

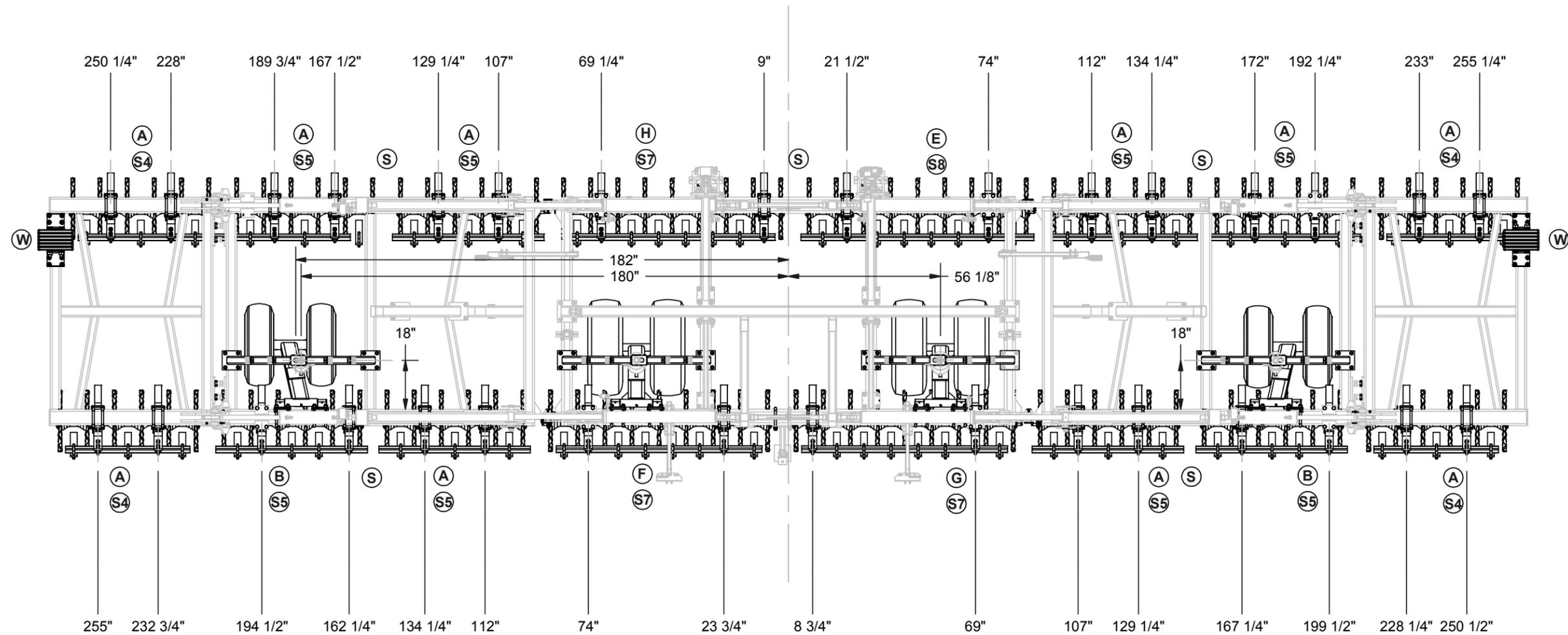
Once Part One Wing lift cylinders have been filled with oil and cycle smoothly, connect rod end of cylinders to wing lift slot. Do not over tighten lock nut. Pivot bolt must rotate freely. Raise wings by fully retracting lift cylinders.



CAUTION: Stand clear whenever raising or lowering wings.

With lift cylinders fully retracted, tighten the end (inside) adjustment nut until the wing rests on wing stops. Continue to tighten inside adjustment nut until rod end bolt contacts inside of wing lift slot. Then tighten outside nut to lock in place. Adjust Transport Lock (8J4600) against wing and tighten jam nuts. Lower wings back to field position for gang mounting.

SUPERCOUNTER LAYOUT 45' BEET SPECIAL (22" CROP ROW SPACING) TOP VIEW



(W) = WEIGHT LOCATIONS

(A) = 8J2260 (6 BLADE WITH BRG IN 2&3)

(B) = 8J2264 (6 BLADE WITH BRG IN 2&3/1&2)

(E) = 8J2290 (9 BLADE WITH BRG IN 2&3)

(F) = 8J2291 (9 BLADE WITH BRG IN 2&3 SPCL)

(G) = 8J2296 (9 BLADE WITH BRG IN 1&2/2&3)

(H) = 8J2298 (9 BLADE WITH BRG IN 2&3/1&2)

(S) = SCRAPER - BETWEEN GANGS

(S4) = 8J3246 (SCRAPER MNTG TUBE - 46")

(S5) = 8J3256 (SCRAPER MNTG TUBE - 56")

(S7) = 8J3276 (SCRAPER MNTG TUBE - 76")

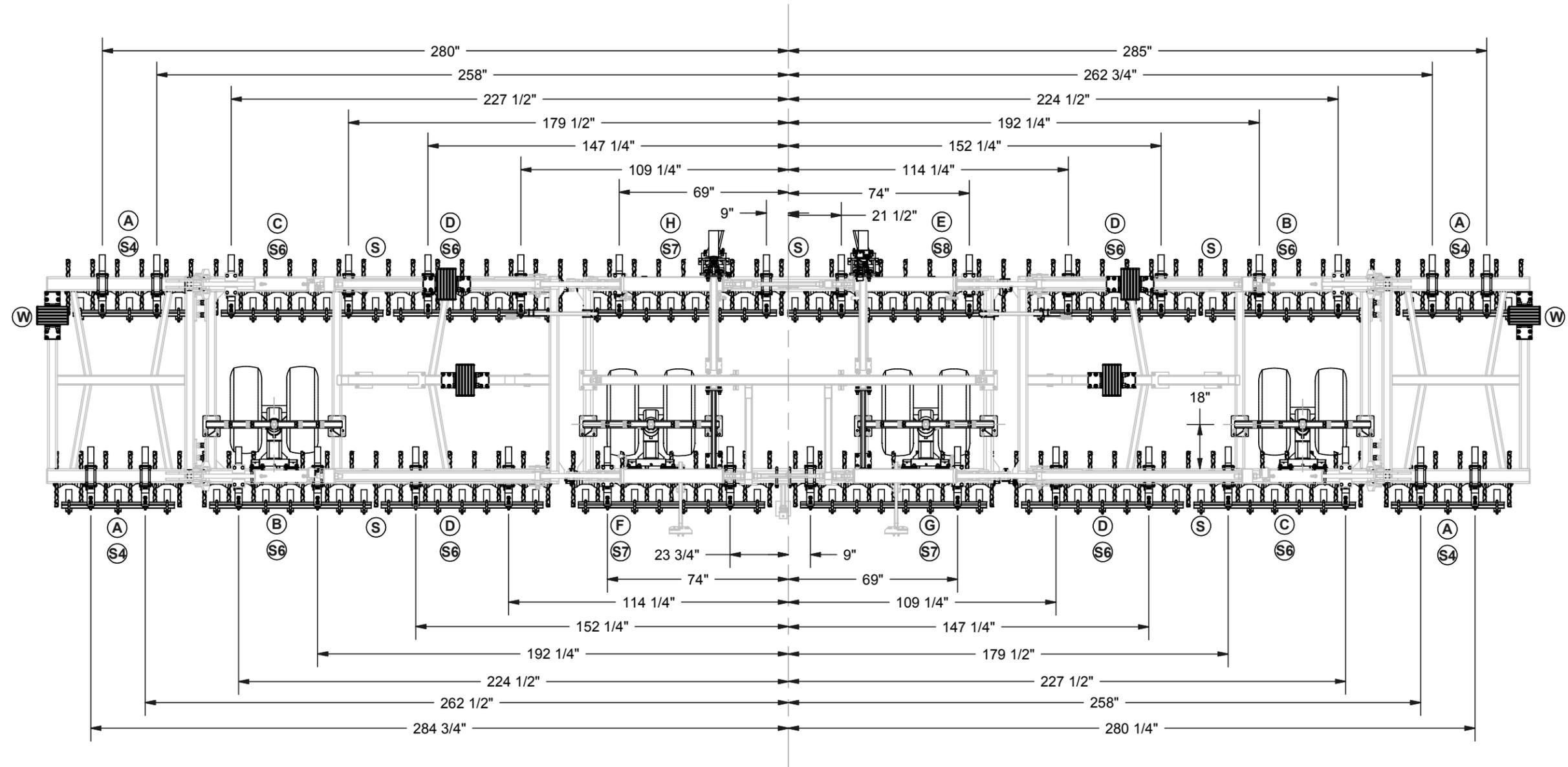
(S8) = 8J3286 (SCRAPER MNTG TUBE - 86")

NOTE: GANG PART NUMBERS WITH FLAT BLADES END WITH "F",
TURBO BLADES END WITH "T", NOTCHED BLADES END WITH "N".

3/14/2017

9J4500B.iam/SCLAYOUT45BEET

SUPERCOUNTER LAYOUT 50' TOP VIEW



- (W) = WEIGHT LOCATIONS
- (A) = 8J2260 (6 BLADE WITH BRG IN 2&3)
- (B) = 8J2270 (7 BLADE WITH BRG IN 2&3)
- (C) = 8J2272 (7 BLADE WITH BRG IN 1&2)
- (D) = 8J2280 (8 BLADE WITH BRG IN 2&3)

- (E) = 8J2290 (9 BLADE WITH BRG IN 2&3)
- (F) = 8J2291 (9 BLADE WITH BRG IN 2&3 SPCL)
- (G) = 8J2296 (9 BLADE WITH BRG IN 1&2/2&3)
- (H) = 8J2298 (9 BLADE WITH BRG IN 2&3/1&2)

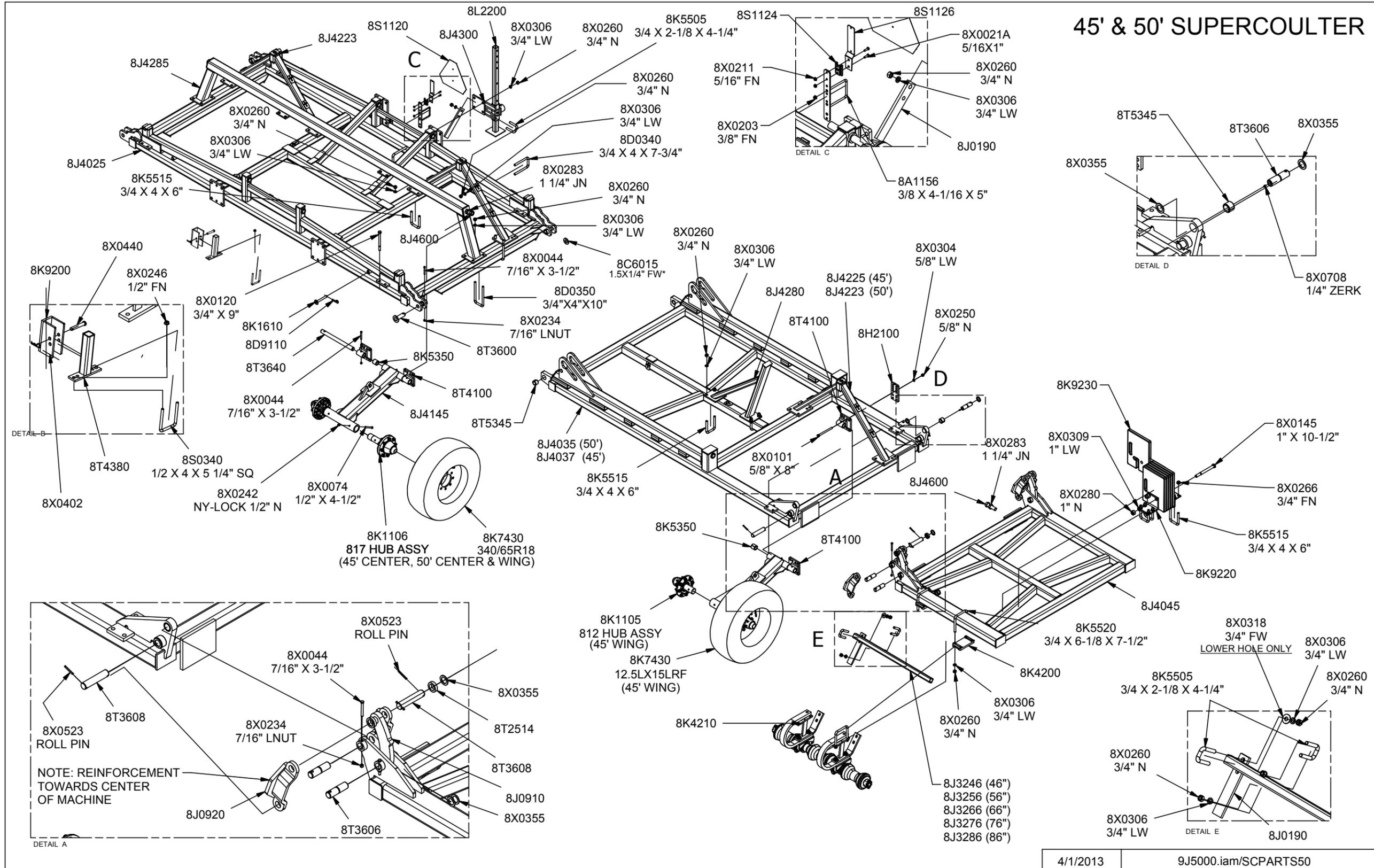
- (S) = SCRAPER - BETWEEN GANGS
- (S4) = 8J3246 (SCRAPER MNTG TUBE - 46")
- (S6) = 8J3266 (SCRAPER MNTG TUBE - 66")
- (S7) = 8J3276 (SCRAPER MNTG TUBE - 76")
- (S8) = 8J3286 (SCRAPER MNTG TUBE - 86")

NOTE: GANG PART NUMBERS WITH FLAT BLADES END WITH "F", TURBO BLADES END WITH "T", NOTCHED BLADES END WITH "N".

3/14/2017

9J5000.iam/SCLAYOUT50

45' & 50' SUPERCOUNTER



SUMMERS SUPERCOUNTER AXLE, HUB, WHEEL AND TIRE LAYOUT

TOP VIEW		Axle & Hub	PN	Wheel & Tire	PN
11' & 15' Center 0 0 0 0		Standard 614 6 Bolt	8K1100	11L LRF	8K7033
		Optional 812 8 Bolt	8K1105S	12.5L LRF	8K7042
20' Center 0 0 0 0		Standard 812 8 Bolt	8K1105	12.5L LRF	8K7042
23' Narrow Center & 30' Standard Center Wing Center Wing 0 0 0 0 0 0 0 0		Standard 614 6 Bolt	8K1100	11L LRF	8K7033
		Optional 812 8 Bolt	8K1105S	12.5L LRF	8K7042
30' Narrow Center, 30' (HD) Standard Center & 35' Wing Center Wing 0 0 0 0 0 0 0 0	CENTER	Standard 812 8 Bolt	8K1105	12.5L LRF	8K7042
		Optional	Same As Standard	340/65Rx18	8K7430
	WING	Standard 614 6 Bolt	8K1100	11L LRF	8K7033
		Optional 812 8 Bolt	8K1105S	12.5L LRF	8K7042
		Optional 812 8 Bolt	8K1105S	340/65Rx18	8K7430
40', 45' & 50' Wing Center Wing 0 0 0 0 0 0 0 0	WING	Standard 817 8 Bolt	8K1106	340/65Rx18	8K7430
	40' CENTER	Standard 812 8 Bolt	8K1105	12.5L LRF	8K7042
		Optional	Same As Standard	340/65Rx18	8K7430
	WING	Standard 812 8 Bolt	8K1105	11L LRF	8K7037
		Optional	Same As Standard	12.5L LRF	8K7042
	45'	Optional		340/65Rx18	8K7430
	WING	Standard 817 8 Bolt	8K1106	340/65Rx18	8K7430
	50'				

ASSEMBLY INSTRUCTION FOR ALL SIZES

REAR SUPPORT LEG (15', 30' Wide Center, 35', 40', 45' and 50' ONLY)

Mount attach bracket (8J4300) and leg (8L2200) to rear center of main frame using 3/4" u-bolts, lockwashers and nuts. Lower leg and secure with pin and hair pin clip to stabilize frame during assembly.

GANG MOUNTING

Refer to gang layouts on pages 19, 21, 22, 25, 26, 29, 30, 33, 34 and illustration on page 76.

Start from the center and work towards the outside when hanging the gangs. Bearing location is important, use correct gang assembly for each location. Carefully lift gang to frame close to correct location. Attach C-shanks to frame using (2) 3/4" U-bolts, mounting plate with peg, flat mounting plate, lockwashers and nuts. After both C- shanks on each gang are mounted, slide the gang to its proper location and tighten hardware.

SCRAPER MOUNTING

Attach scraper mounting tubes to scraper support brackets (8J0200) using 3/4" U-bolts (8K5505), spacer flat (8K4420), lockwashers and nuts. Attach scraper flats (8J0190) to the mounting tubes using 3/4" U-bolts (8K5505), flatwashers (lower hole only), lockwashers and nuts. Center between coultter blades.

WEIGHT PACKAGES

If field conditions require, install 1/2 weight packages (6 suitcase weights with mounting angles and hardware) at locations shown on pages 19, 21, 22, 25, 26, 29, 30, 33 or 34. Install 1/2 weight packages by positioning mounting angles approximately 9" apart. Secure with 3/4" U-bolts, lockwashers and nuts. Fully tighten hardware on one mounting angle. Hand tighten mounting hardware on second mounting angle, this must be free to slide. Insert one 1" x 10-1/2" bolt through both mounting angles (top hole if weights lay horizontally), turn 1" nut onto this bolt until threads are flush with outside of nut. Spread mounting angles as much as 1" bolt and nut will allow. Lift suitcase weights (8K9230) into position, slide slotted hole of weight over 1" bolt. Continue to slide weight past corner of slot until it reaches the end of the slot, at this location the hole without slot will line up with the second hole in the mounting angles. Repeat procedure with remaining suitcase weights. Insert second 1" x 10-1/2" bolt through angles and weights. Secure second 1" bolt with lockwasher and nut, fully tighten. When second 1" bolt is tight, remove the nut from first bolt and add the lockwasher. Fully tighten all remaining nuts. Suitcase weight location and quantity may need to be adjusted to match field conditions.

Machine Width	Std. # of weight packages* (8K9250)	Std. # of individual weights* (8K9230)	Max. # of weight packages* (8K9250)
15'	1	12	4
20'	1	12	4
23'	1	12	3
30' Wide Center	2	24	4
30' Narrow Center	1	12	3
30' Heavy Duty	6	72	7
35'	3	36	5
40'	2	24	3
45'	1	12	3
50'	1	12	3

* WITHOUT MOUNTED ATTACHMENTS, 2750 PSI MINIMUM TRACTOR HYDRAULIC PRESSURE IS REQUIRED FOR MAXIMUM WEIGHT.

Caution: Each suitcase weight (8K9230) weighs 67#. use extreme care when handling them.

If mounted harrows or other attachments are installed on SUPERCOULTER, an equivalent weight of suitcase weights MUST be removed.

SAFETY

Install SMV mounting bracket and sign at machine center. Install decals at locations shown on pages 12 and 14. Install Safety Light Kit, refer to breakdown on page 87.

SUPERCOUNTER HYD. HITCH MOUNTING INSTRUCTIONS

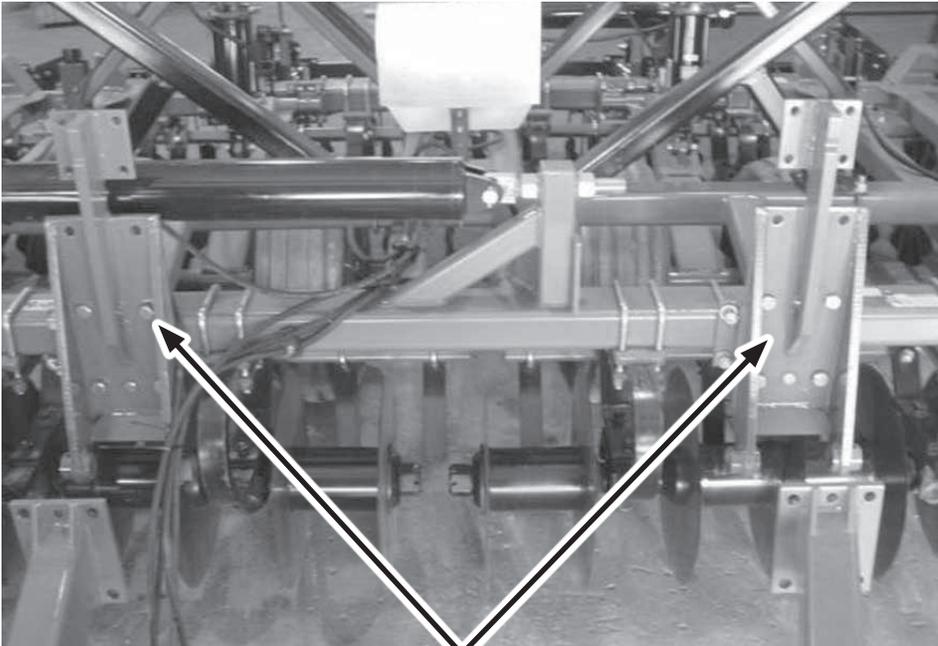
Refer to Parts drawing & photos and follow these steps when mounting a Hydraulic Hitch on the Summers SuperCoulter. The SuperCoulter should be in a level area that allows ample room for assembly in field position.



USE SUITABLE LIFTING DEVICE for components which could cause personal injury.



CAUTION: For safety purposes, always block equipment while working on it.



MOUNTING HYDRAULIC HITCH AT SAME TIME AS SUPERCOUNTER IS ASSEMBLED:

- a. To provide stability, the hydraulic hitch can be installed AFTER gangs are mounted on the SuperCoulter.
- b. Lower SuperCoulter so gangs are resting on a flat level surface.
- c. Begin at Assembly step 3

MOUNTING HYDRAULIC HITCH ON EXISTING SUPERCOUNTER (RETROFIT):

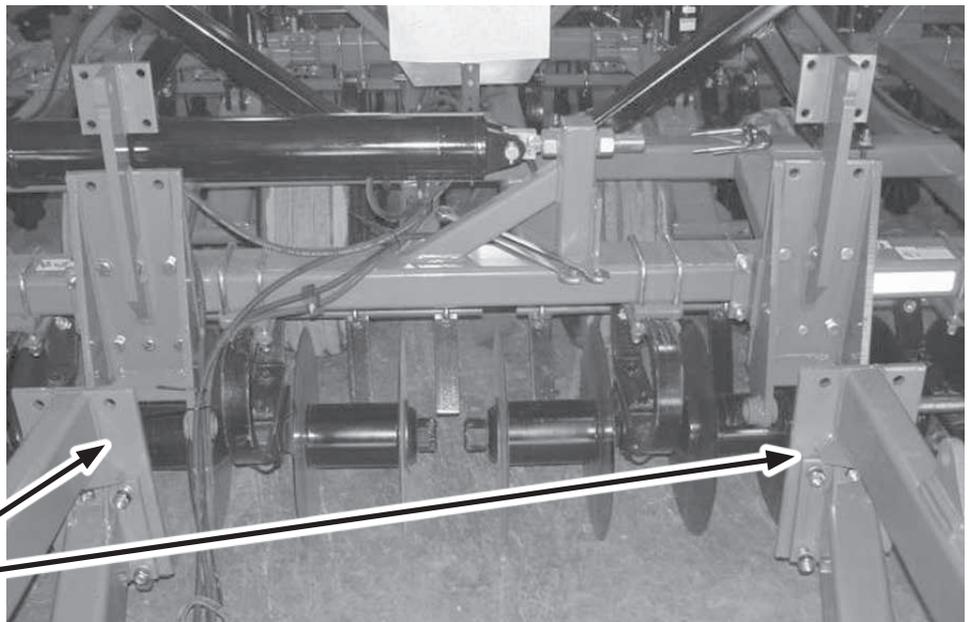
- a. To provide stability, SuperCoulter wings must be folded down into field position and gangs must be lowered to a flat level surface before Hydraulic Hitch is installed.
- b. Begin at Assembly step 1.

A. Install and tighten 8J8940 (Center Pivot Assembly).

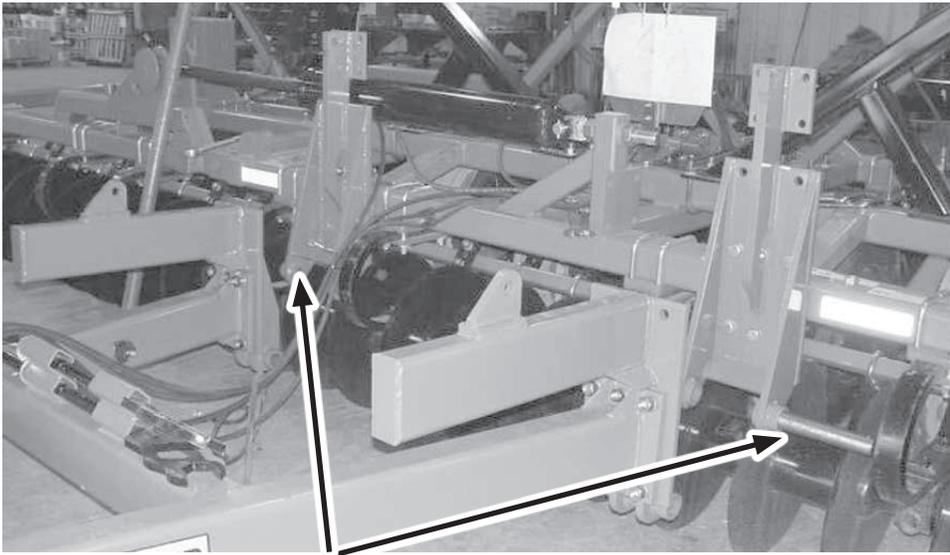
Step 1: Loosen hydraulic hose and Safety Light wiring harness hold down clamps on SuperCoulter hitch. To prevent interference with Hydraulic Hitch installation reroute all hoses and wiring harness on center of SuperCoulter extending to rear of machine.

Step 2: Support hitch and detach SuperCoulter hitch from center section by removing attachment bolts. Move hitch approximately 4 feet forward and set on sturdy supports.

Step 3: Attach 2 Center Pivot Assemblies (8J8940) onto front of center section (Photo A). Corner attachment bolts must be 7/8" diameter. If SuperCoulter is equipped with 3/4" diameter bolts at these locations, holes must be drilled to 7/8" diameter. After all bolts and u-bolts are installed, securely tighten. Use flat-washer in addition to lock washer and nut over slotted holes.



B. Install 8J8920 (Hitch Pivot Assembly).



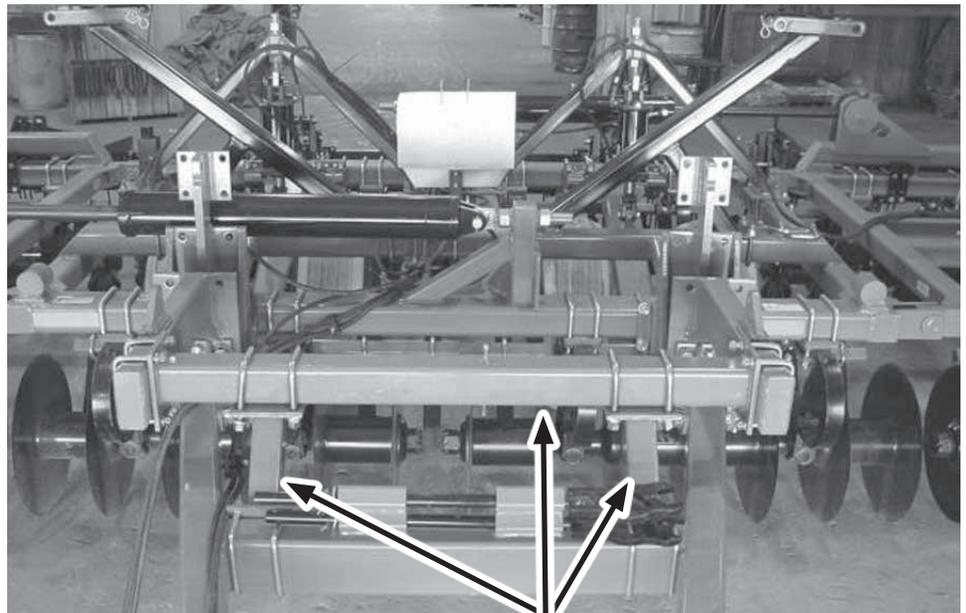
Step 4: Recheck that hitch supports are stable and will remain so when 250# are added to rear. Attach 2 Hitch Pivot Assemblies (8J8920) onto rear of hitch (Photo B). Again, corner attachment bolts must be 7/8" diameter. 3/4" holes must be drilled to 7/8" diameter. Do not fully tighten attachment bolts.

Step 5: Lift SuperCoulter hitch off supports, position and connect Center and Hitch Pivot Assemblies with 1-3/4" diameter pins (Photo C). Secure 1-3/4" pins with 7/16" x 3-1/2" bolts and locknuts.

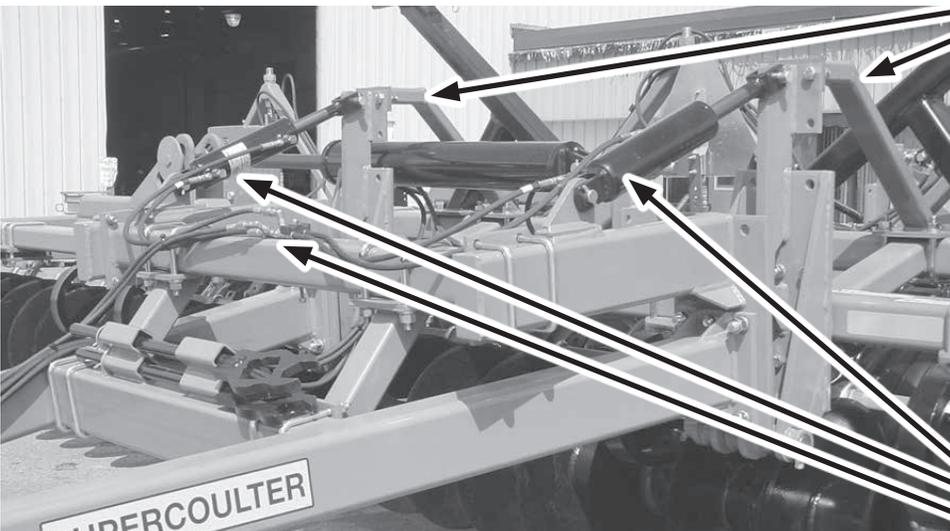
C. Position Hitch - Pin.

Step 6: Install support braces (Photo D). The Cross Brace (8J8860) can be installed with tube located in a higher or lower position. Use orientation that allows Drop Braces (8J8870) to connect to hitch cross tube. After all support braces are in position, securely tighten all attachment bolts and u-bolts. Start with attachment bolts for Hitch Pivot Assemblies.

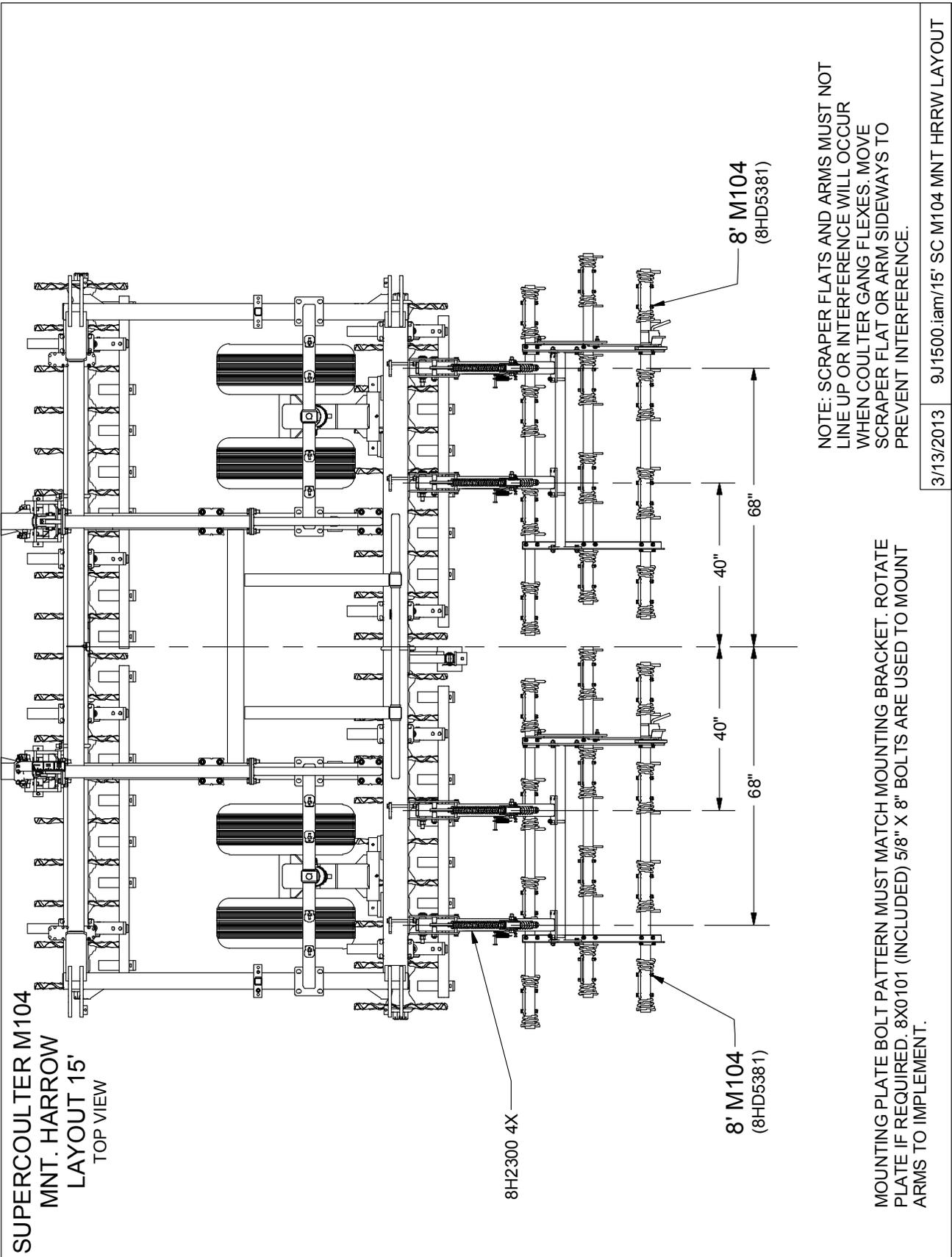
Step 7: Install hydraulic cylinders, fittings and hoses (Photo E). Route original hydraulic hoses and wiring harness with Hydraulic Hitch hoses to front of hitch. Secure with clamps and nylon ties.

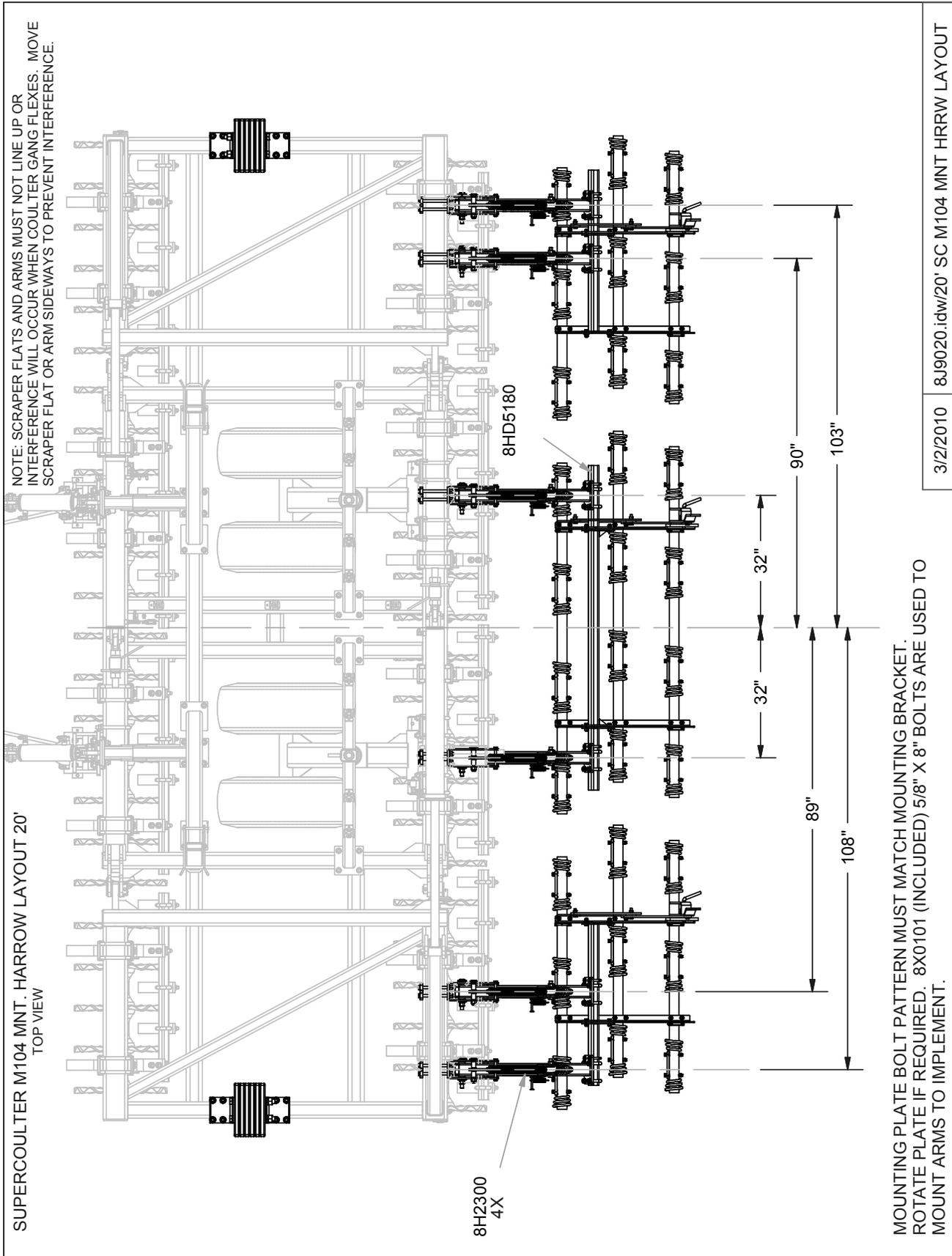


D. Install Braces.



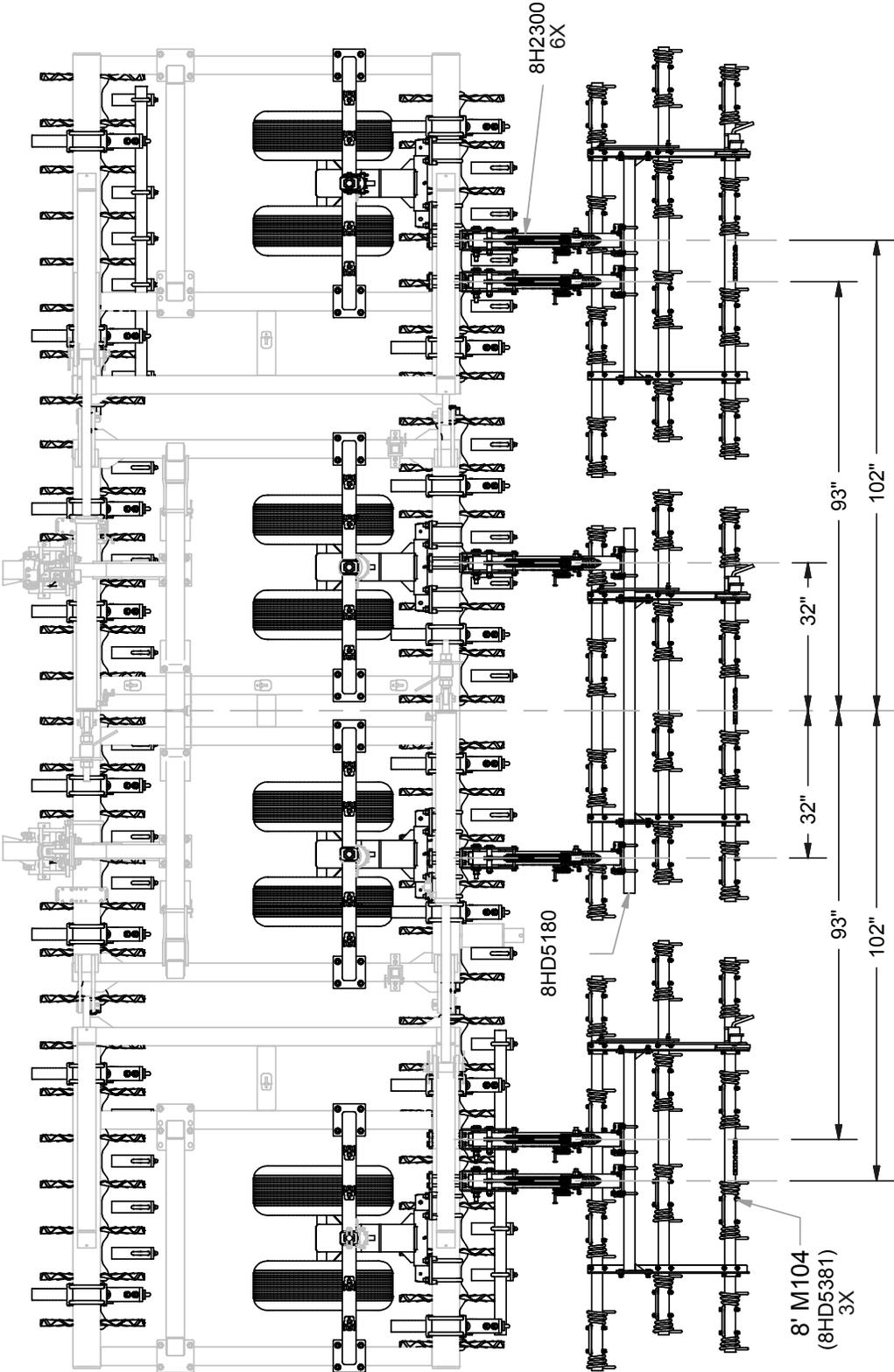
E. Install Hydraulics.





SUPERCOUNTER M104 MNT. HARROW LAYOUT 23'
TOP VIEW

NOTE: ALL EXCEPT 24 SUITCASE WEIGHTS MUST BE REMOVED UPON INSTALLATION OF M104 MNT HARROW OPTION. SCRAPER FLATS AND ARMS MUST NOT LINE UP OR INTERFERENCE WILL OCCUR WHEN COULTER GANG FLEXES. MOVE SCRAPER FLAT OR ARM SIDWAYS TO PREVENT INTERFERENCE.



MOUNTING PLATE BOLT PATTERN MUST MATCH MOUNTING BRACKET. ROTATE PLATE IF REQUIRED. 8X0101 (INCLUDED) 5/8" X 8" BOLTS ARE USED TO MOUNT ARMS TO IMPLEMENT.

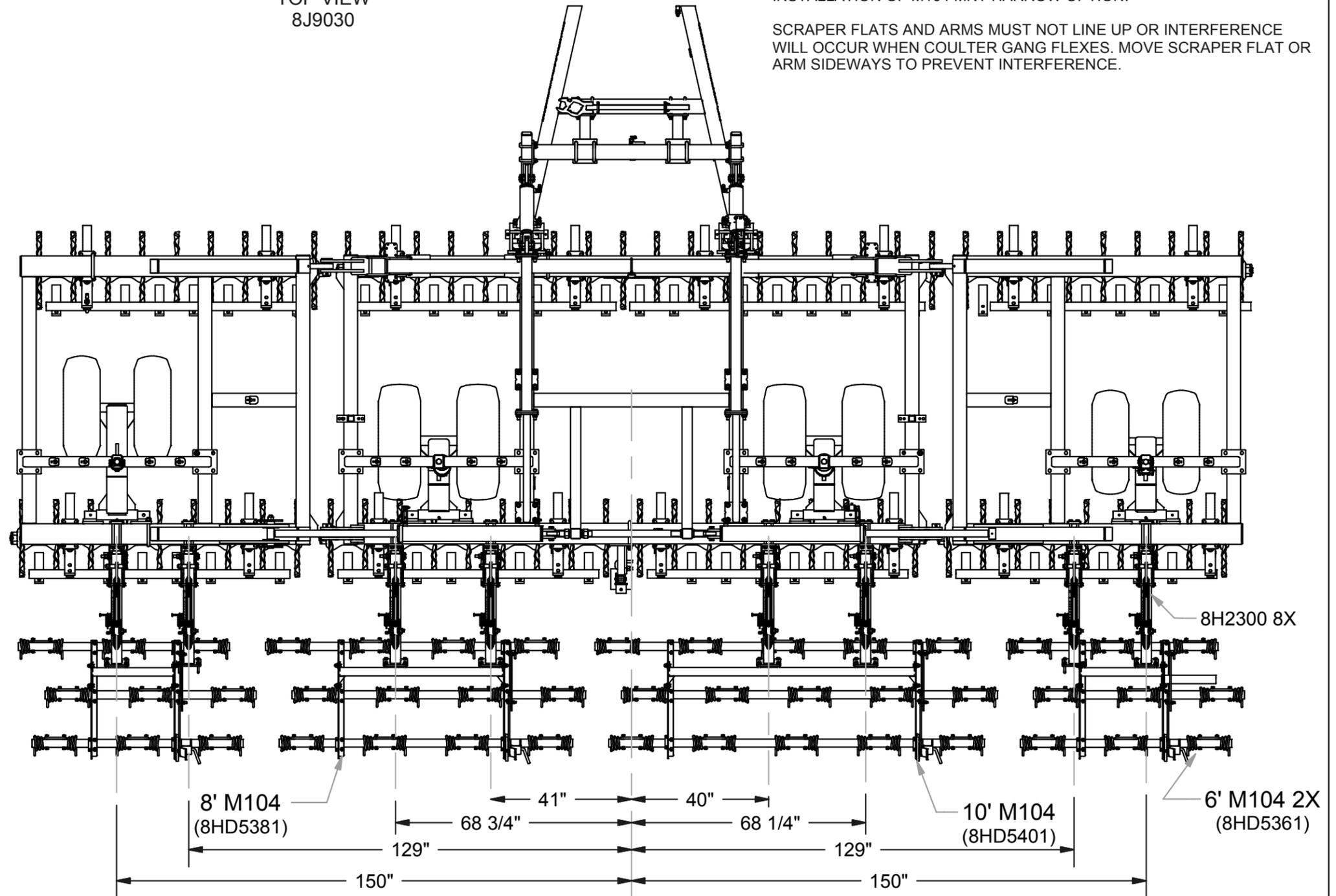
NOTE: RAISE MACHINE SLOWLY THE FIRST TIME AFTER INSTALLATION OF MNT. HARROWS, WATCH FOR INTERFERENCE. REPOSITION BRACKETS IF REQUIRED.

3/14/2017 9J2300.iam/23' SC M104 MNT HRRW LAYOUT

SUPERCOUNTER M104 MNT. HARROW LAYOUT 30' WIDE CENTER
 TOP VIEW
 8J9030

NOTE: ALL EXCEPT 12 SUITCASE WEIGHTS MUST BE REMOVED UPON INSTALLATION OF M104 MNT HARROW OPTION.

SCRAPER FLATS AND ARMS MUST NOT LINE UP OR INTERFERENCE WILL OCCUR WHEN COULTER GANG FLEXES. MOVE SCRAPER FLAT OR ARM SIDEWAYS TO PREVENT INTERFERENCE.



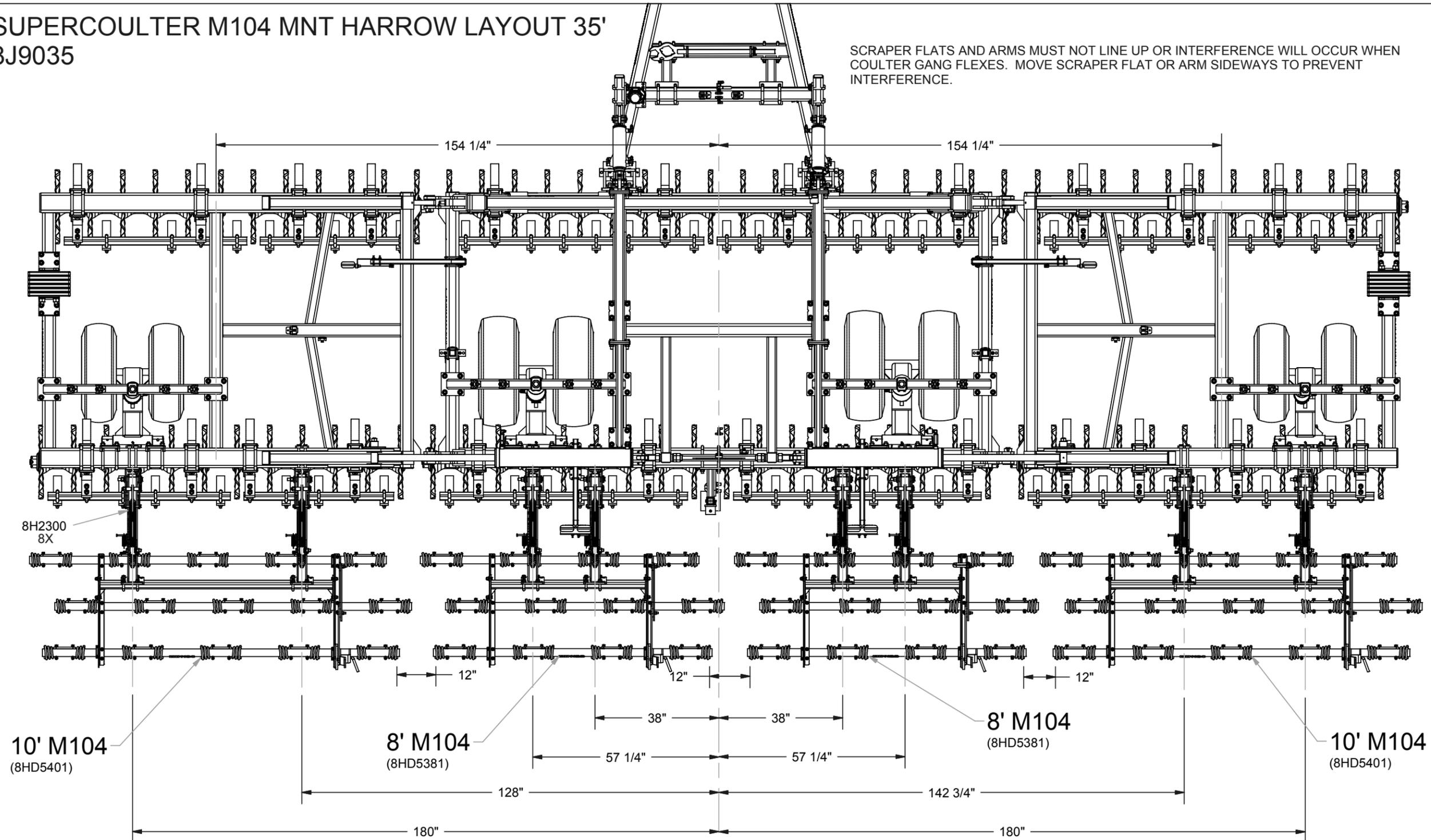
MOUNTING PLATE BOLT PATTERN MUST MATCH MOUNTING BRACKET. ROTATE PLATE IF REQUIRED. 8X0101 (INCLUDED) 5/8" X 8" BOLTS ARE USED TO MOUNT ARMS TO IMPLEMENT.

NOTE: RAISE MACHINE SLOWLY THE FIRST TIME AFTER INSTALLATION OF MNT. HARROWS, WATCH FOR INTERFERENCE. REPOSITION BRACKETS IF REQUIRED.

3/23/2015 9J3000W.iam/30' WC SC M104 MNT HRRW LAYOUT

SUPERCOLTER M104 MNT HARROW LAYOUT 35'
8J9035

SCRAPER FLATS AND ARMS MUST NOT LINE UP OR INTERFERENCE WILL OCCUR WHEN COULTER GANG FLEXES. MOVE SCRAPER FLAT OR ARM SIDWAYS TO PREVENT INTERFERENCE.



(1) Mounting plate bolt pattern must match mounting bracket. Rotate plate if required. 8X0101 (included) 5/8" x 8" bolts are used to mount arms to implement.

Raise machine slowly the first time after installation of mounted harrows, watch for interference. Reposition brackets if required.

3/24/2017

9J3500.iam/35' SC MNTD HRRW LAYOUT

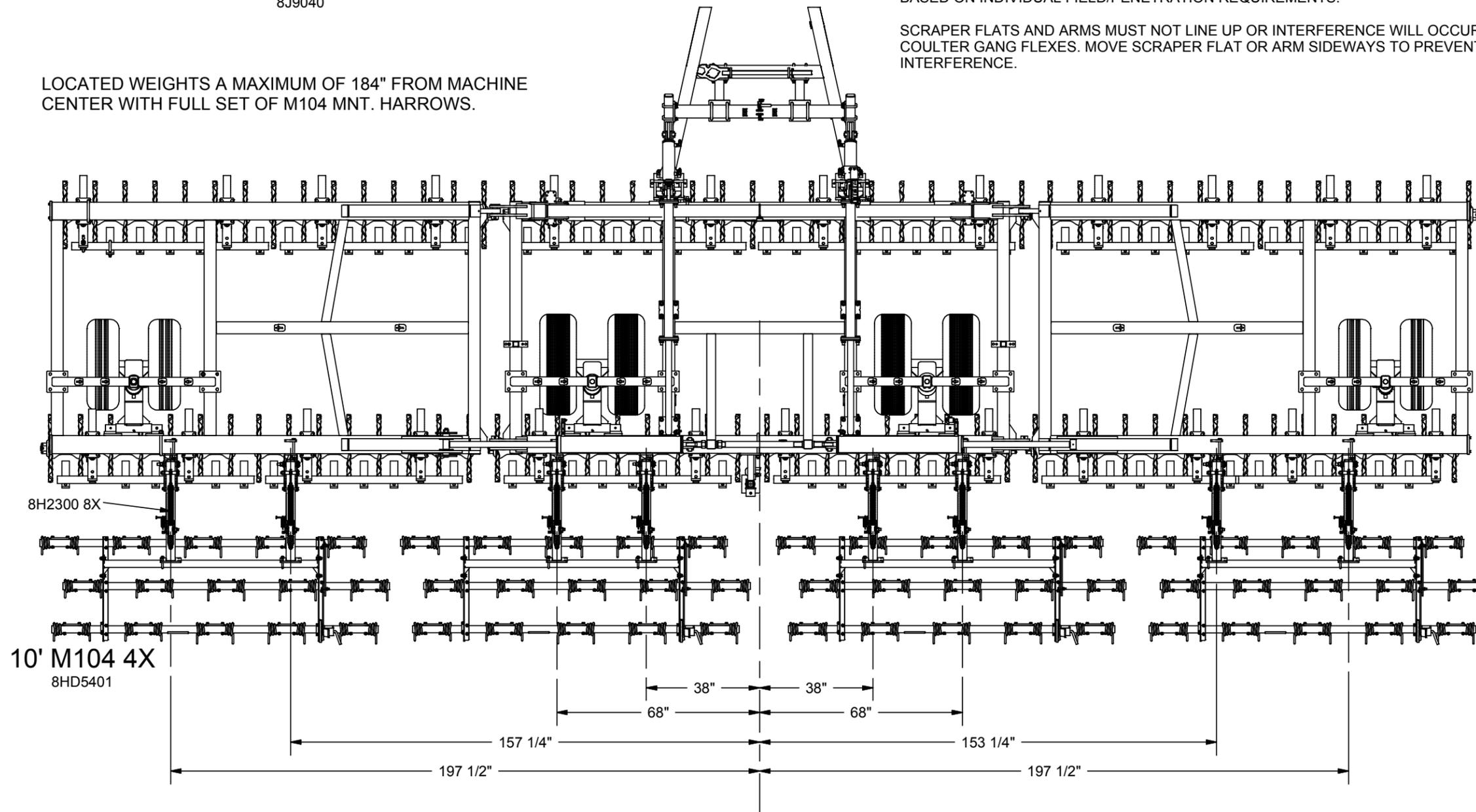
SUPERCOUNTER M104 MNT. HARROW LAYOUT 40'

TOP VIEW
8J9040

NOTE: ALL EXCEPT 12 SUITCASE WEIGHTS MUST BE REMOVED UPON INSTALLATION OF M104 MNT HARROW OPTION. LOCATION OF THESE WEIGHTS MUST BE SYMMETRICAL SIDE TO SIDE. POSITION WEIGHTS TOWARDS THE FRONT OF EITHER THE WINGS OR CENTER SECTION BASED ON INDIVIDUAL FIELD/PENETRATION REQUIREMENTS.

LOCATED WEIGHTS A MAXIMUM OF 184" FROM MACHINE CENTER WITH FULL SET OF M104 MNT. HARROWS.

SCRAPER FLATS AND ARMS MUST NOT LINE UP OR INTERFERENCE WILL OCCUR WHEN COULTER GANG FLEXES. MOVE SCRAPER FLAT OR ARM SIDEWAYS TO PREVENT INTERFERENCE.



MOUNTING PLATE BOLT PATTERN MUST MATCH MOUNTING BRACKET. ROTATE PLATE IF REQUIRED. 8X101 (INCLUDED) 5/8" X 8" BOLTS ARE USED TO MOUNT ARMS TO IMPLEMENT.

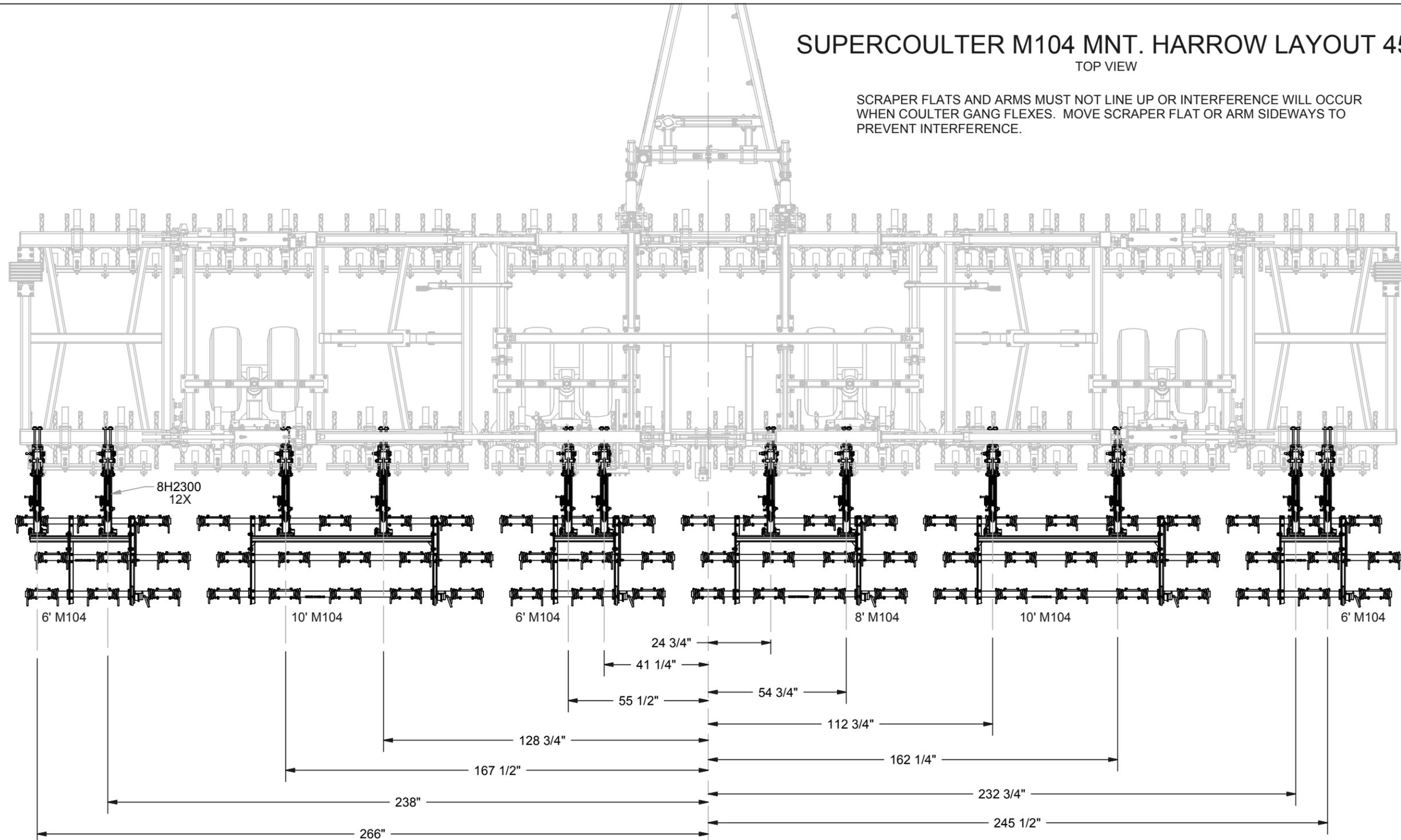
RAISE MACHINE SLOWLY THE FIRST TIME AFTER INSTALLATION OF MOUNTED HARROWS, WATCH FOR INTERFERENCE. REPOSITION BRACKETS IF REQUIRED.

4/24/2013 9J4000.iam/40' SC MNT HRRW LAYOUT

SUPERCOUALTER M104 MNT. HARROW LAYOUT 45'

TOP VIEW

SCRAPER FLATS AND ARMS MUST NOT LINE UP OR INTERFERENCE WILL OCCUR WHEN COULTER GANG FLEXES. MOVE SCRAPER FLAT OR ARM SIDWAYS TO PREVENT INTERFERENCE.



(1) MOUNTING PLATE BOLT PATTERN MUST MATCH MOUNTING BRACKET. ROTATE PLATE IF REQUIRED. 8X0101 (INCLUDED) 5/8" X 8" BOLTS ARE USED TO MOUNT ARMS TO IMPLEMENT.

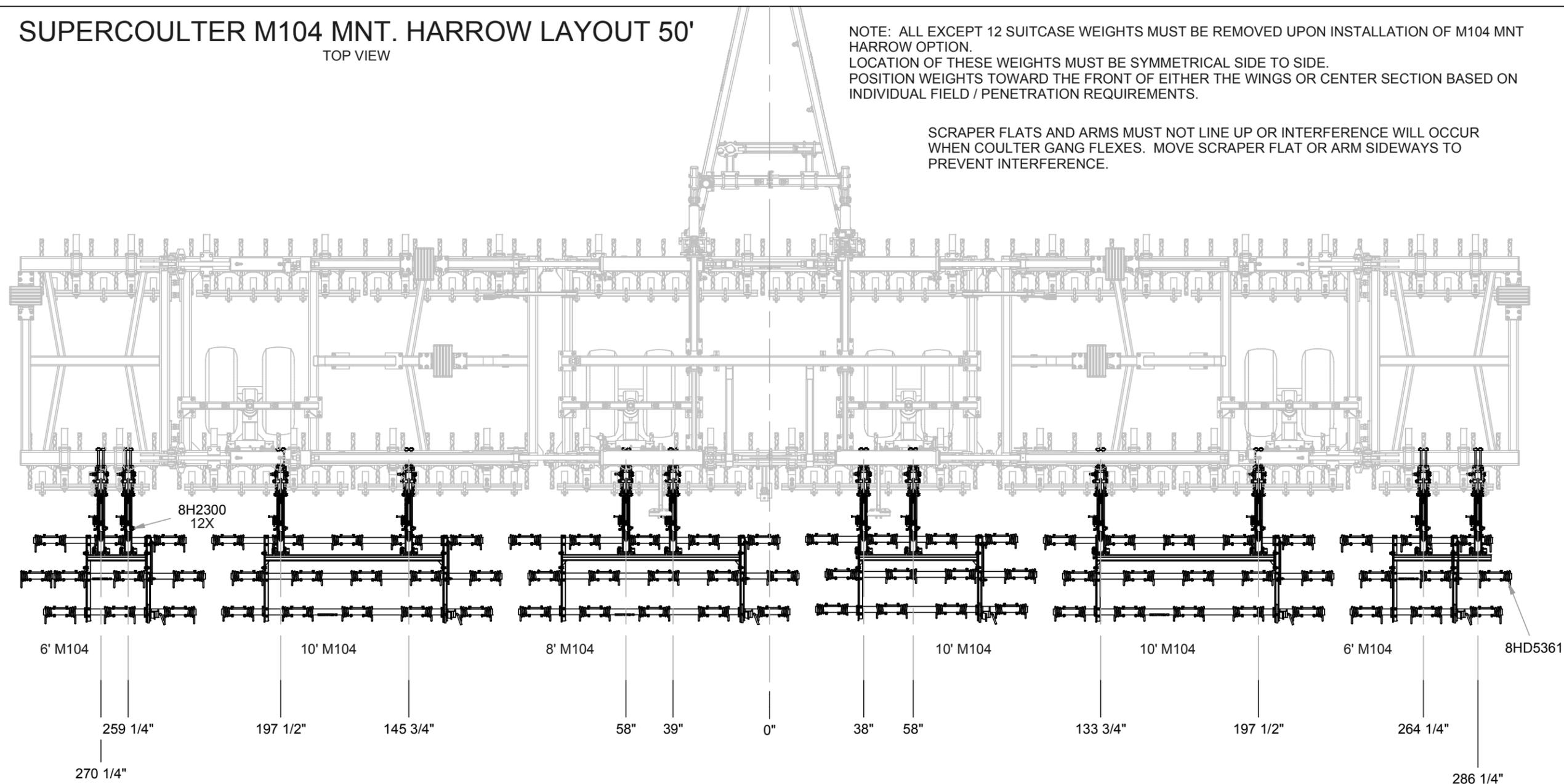
RAISE MACHINE SLOWLY THE FIRST TIME AFTER INSTALLATION OF MOUNTED HARROWS, WATCH FOR INTERFERENCE. REPOSITION BRACKETS IF REQUIRED.

SUPERCOUALTER M104 MNT. HARROW LAYOUT 50'

TOP VIEW

NOTE: ALL EXCEPT 12 SUITCASE WEIGHTS MUST BE REMOVED UPON INSTALLATION OF M104 MNT HARROW OPTION.
 LOCATION OF THESE WEIGHTS MUST BE SYMMETRICAL SIDE TO SIDE.
 POSITION WEIGHTS TOWARD THE FRONT OF EITHER THE WINGS OR CENTER SECTION BASED ON INDIVIDUAL FIELD / PENETRATION REQUIREMENTS.

SCRAPER FLATS AND ARMS MUST NOT LINE UP OR INTERFERENCE WILL OCCUR WHEN COULTER GANG FLEXES. MOVE SCRAPER FLAT OR ARM SIDWAYS TO PREVENT INTERFERENCE.



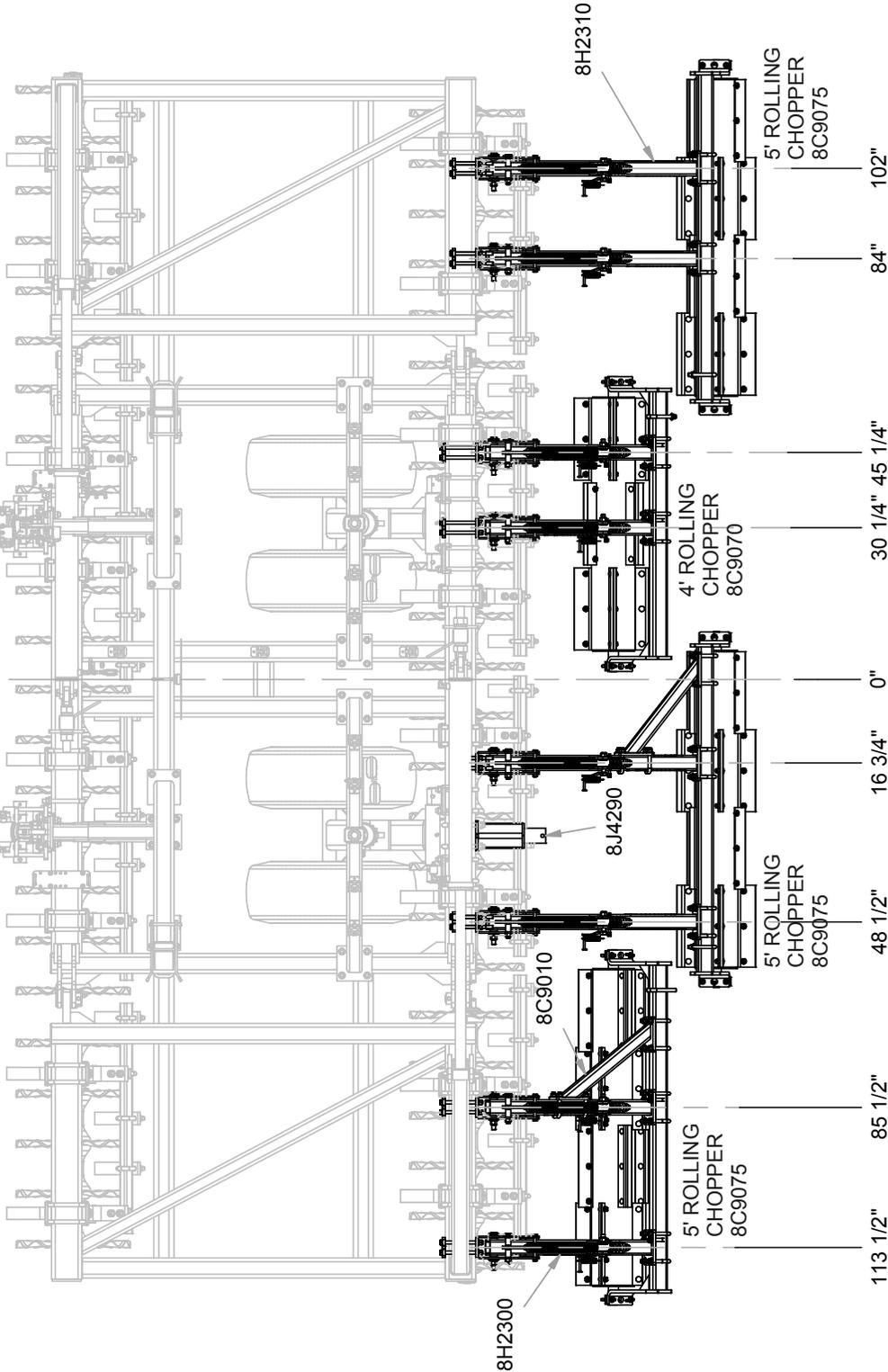
(1) MOUNTING PLATE BOLT PATTERN MUST MATCH MOUNTING BRACKET (8H2251). ROTATE PLATE IF REQUIRED. 8X0101 (INCLUDED) 5/8" X 8" BOLTS ARE USED TO MOUNT ARMS TO IMPLEMENT.

RAISE MACHINE SLOWLY THE FIRST TIME AFTER INSTALLATION OF MOUNTED HARROWS, WATCH FOR INTERFERENCE. REPOSITION BRACKETS IF REQUIRED.

SUPERCOULTER MNT. CHOPPER LAYOUT 20'

NOTE: Position Weights as far forward as possible on the implement to balance additional weight of Rolling Choppers.

Rolling Chopper blades are designed to enter the soil vertically and exit horizontally. 4' and 5' Rolling Chopper Assemblies are set up for installation on 8H2310 arms in the back position (gussets to the back). 7' Rolling Chopper Assemblies are set up for installation on 8H2300 arms in the forward position (gussets to the front). Disconnect bearings and rotate Mounting frame if required for correct blade orientation.



SCRAPER FLATS AND ARMS MUST NOT LINE UP OR INTERFERENCE WILL OCCUR WHEN COULTER GANG FLEXES. MOVE SCRAPER FLAT OR ARM SIDEWAYS TO PREVENT INTERFERENCE.

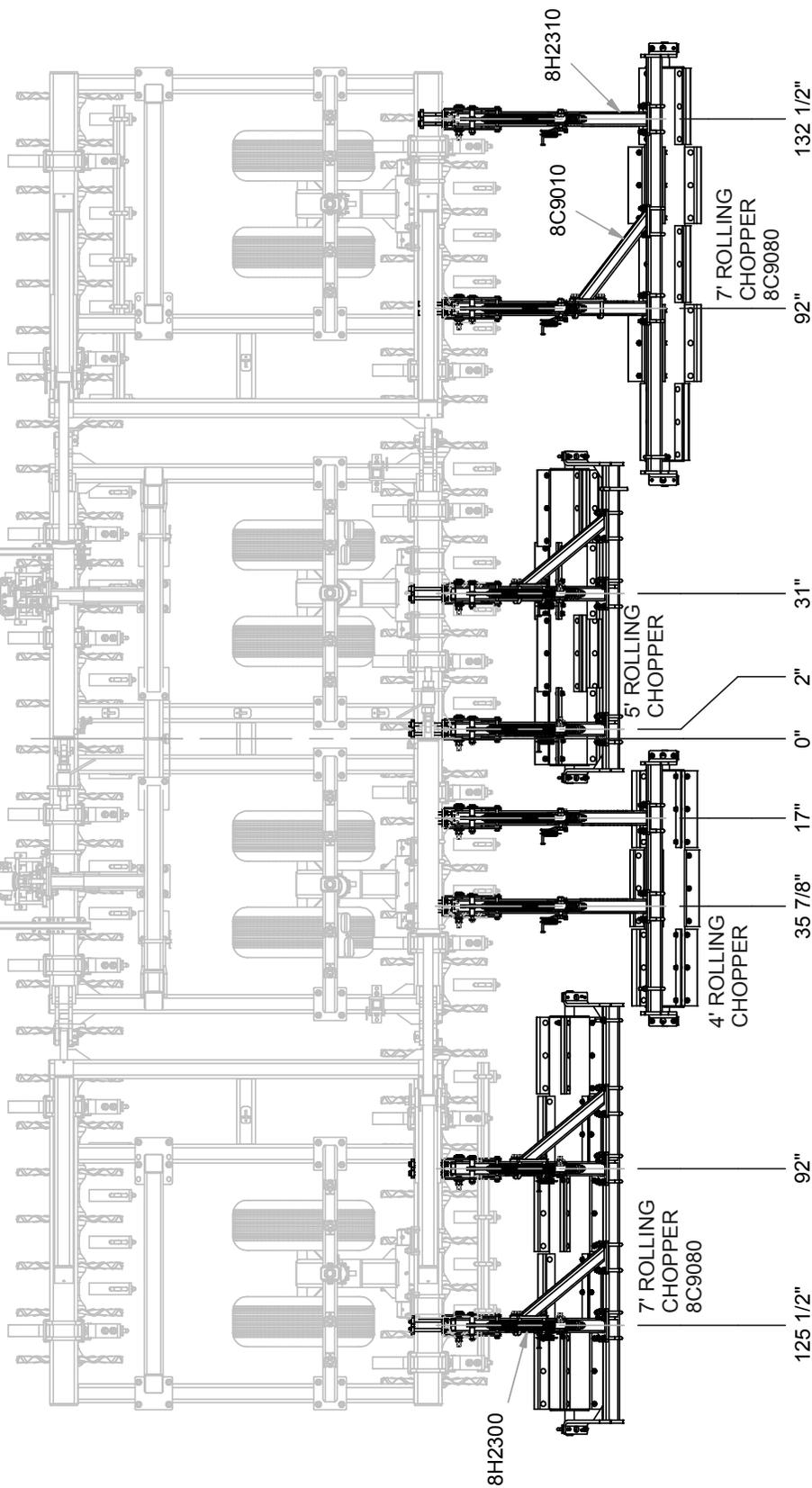
NOTE: Raise machine slowly the first time after installation of Rolling Choppers, watch for interference. Reposition brackets if required.

Mounting plate bolt pattern must match mounting bracket (8H2251). Rotate plate if required. 8X0101 (included) 5/8" x 8" bolts are used to mount arms to implement.

3/27/2017 8J9120.idw/20' SC MNT CHOPPER LAYOUT

SUPER COULTER MNT. CHOPPER LAYOUT 23'
NOTE: Position Weights as far forward as possible on the implement to balance additional weight of Rolling Choppers.

Rolling Chopper blades are designed to enter the soil vertically and exit horizontally. 4' and 5' Rolling Chopper Assemblies are set up for installation on 8H2310 arms in the back position (gussets to the back). 7' Rolling Chopper Assemblies are set up for installation on 8H2300 arms in the forward position (gussets to the front). Disconnect bearings and rotate Mounting frame if required for correct blade orientation.

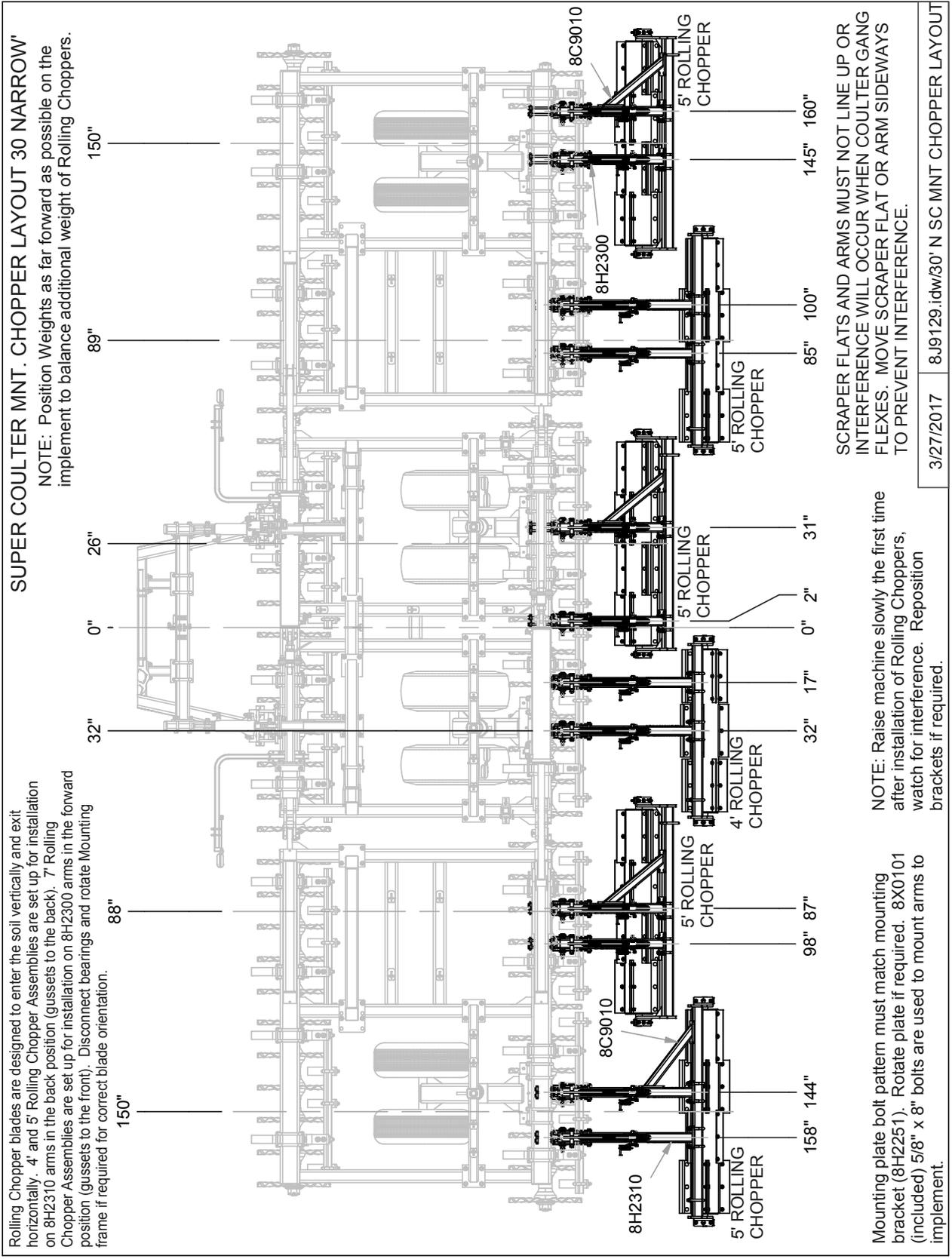


SCRAPER FLATS AND ARMS MUST NOT LINE UP OR INTERFERENCE WILL OCCUR WHEN COULTER GANG FLEXES. MOVE SCRAPER FLAT OR ARM SIDWAYS TO PREVENT INTERFERENCE.

NOTE: Raise machine slowly the first time after installation of Rolling Choppers, watch for interference. Reposition brackets if required.

Mounting plate bolt pattern must match mounting bracket (8H2251). Rotate plate if required. 8X0101 (included) 5/8" x 8" bolts are used to mount arms to implement.

3/27/2017	8J9123.idw/23' SC MNT CHOPPER LAYOUT
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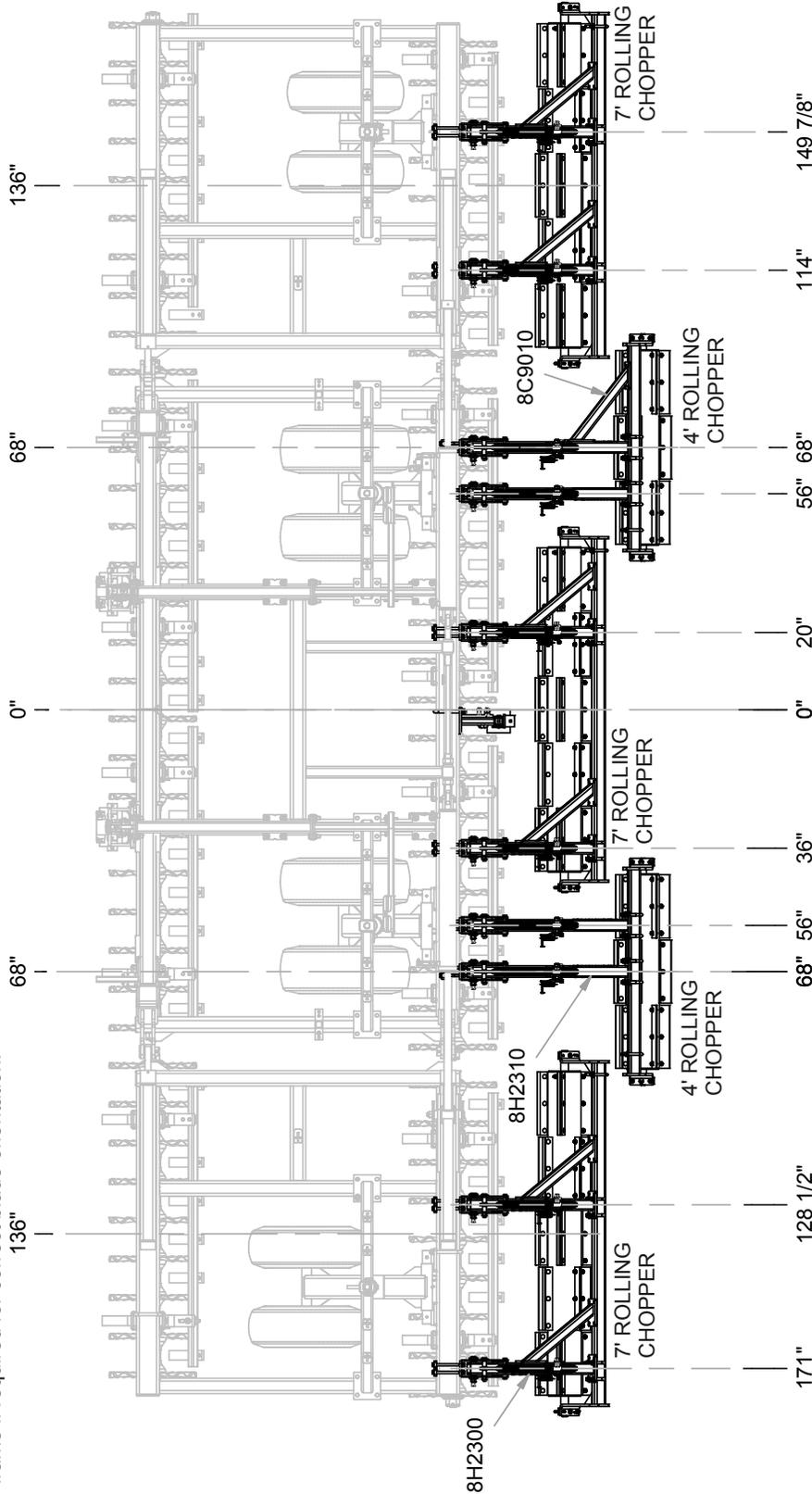


SUPERCOLTER MNT ROLLING CHOPPER LAYOUT 15' & 30' WIDE CENTER

Rolling Chopper blades are designed to enter the soil vertically and exit horizontally. 4' and 5' Rolling Chopper Assemblies are set up for installation on 8H2310 arms in the back position (gussets to the back). 7' Rolling Chopper Assemblies are set up for installation on 8H2300 arms in the forward position (gussets to the front). Disconnect bearings and rotate Mounting frame if required for correct blade orientation.

NOTE: Position Weights as far forward as possible on the implement to balance additional weight of Rolling Choppers.

SCRAPER FLATS AND ARMS MUST NOT LINE UP OR INTERFERENCE WILL OCCUR WHEN COULTER GANG FLEXES. MOVE SCRAPER FLAT OR ARM SIDEWAYS TO PREVENT INTERFERENCE.



Mounting plate bolt pattern must match mounting bracket (8H2251). Rotate plate if required. 8X0101 (included) 5/8" x 8" bolts are used to mount arms to implements.

NOTE: Raise machine slowly the first time after installation of Mnt. CHOPPERS, watch for interference. Reposition brackets if required.

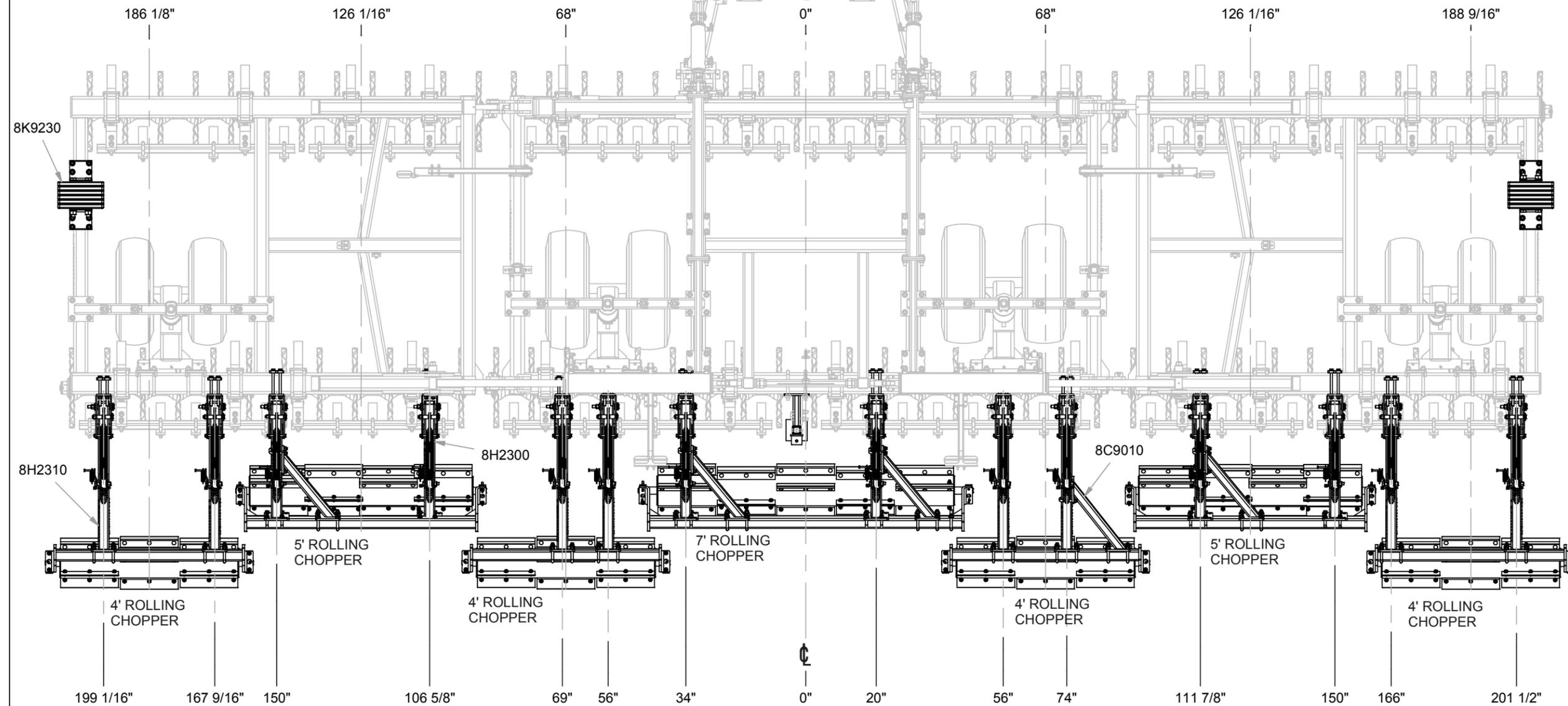
SCRAPER FLATS AND ARMS MUST NOT LINE UP OR INTERFERENCE WILL OCCUR WHEN COULTER GANG FLEXES. MOVE SCRAPER FLAT OR ARM SIDEWAYS TO PREVENT INTERFERENCE.

3/28/2017 8J9130.idw 15' & 30' SC MNT RLLG CHPR

SUPERCOUNTER MNT ROLLING CHOPPER LAYOUT 35' 8J9135

NOTE: Position Weights as far forward as possible on the implement to balance additional weight of Rolling Choppers.

Rolling Chopper blades are designed to enter the soil vertically and exit horizontally. 4' and 5' Rolling Chopper Assemblies are set up for installation on 7H2310 arms in the back position (gussets to the back). 7' Rolling Chopper Assemblies are set up for installation on 8H2300 arms in the forward position (gussets to the front). Disconnect bearings and rotate Mounting frame if required for correct blade orientation.



Mounting plate bolt pattern must match mounting bracket (8H2251). Rotate plate if required. 8X0101 (included) 5/8" x 8" bolts are used to mount arms to implement.

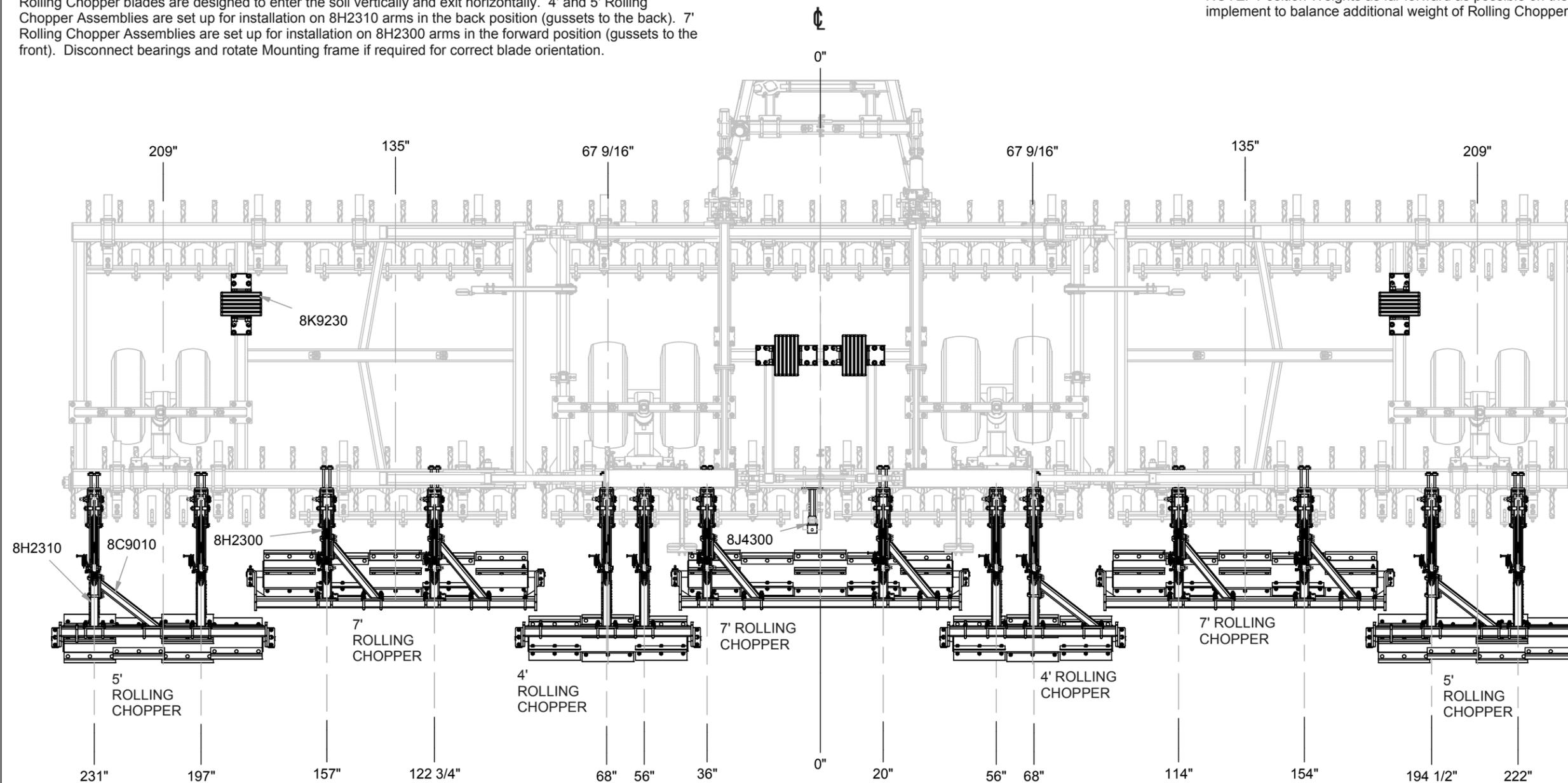
NOTE: Raise machine slowly the first time after installation of Mnt. CHOPPERS, watch for interference. Reposition brackets if required.

SCRAPER FLATS AND ARMS MUST NOT LINE UP OR INTERFERENCE WILL OCCUR WHEN COULTER GANG FLEXES. MOVE SCRAPER FLAT OR ARM SIDEWAYS TO PREVENT INTERFERENCE.

SUPERCOUNTER MNT ROLLING CHOPPER LAYOUT 40'

Rolling Chopper blades are designed to enter the soil vertically and exit horizontally. 4' and 5' Rolling Chopper Assemblies are set up for installation on 8H2310 arms in the back position (gussets to the back). 7' Rolling Chopper Assemblies are set up for installation on 8H2300 arms in the forward position (gussets to the front). Disconnect bearings and rotate Mounting frame if required for correct blade orientation.

NOTE: Position Weights as far forward as possible on the implement to balance additional weight of Rolling Choppers.



Mounting plate bolt pattern must match mounting bracket. Rotate plate if required. 8X0101 (included) 5/8" x 8" bolts are used to mount arms to implement.

NOTE: Raise machine slowly the first time after installation of Mnt. CHOPPERS, watch for interference. Reposition brackets if required.

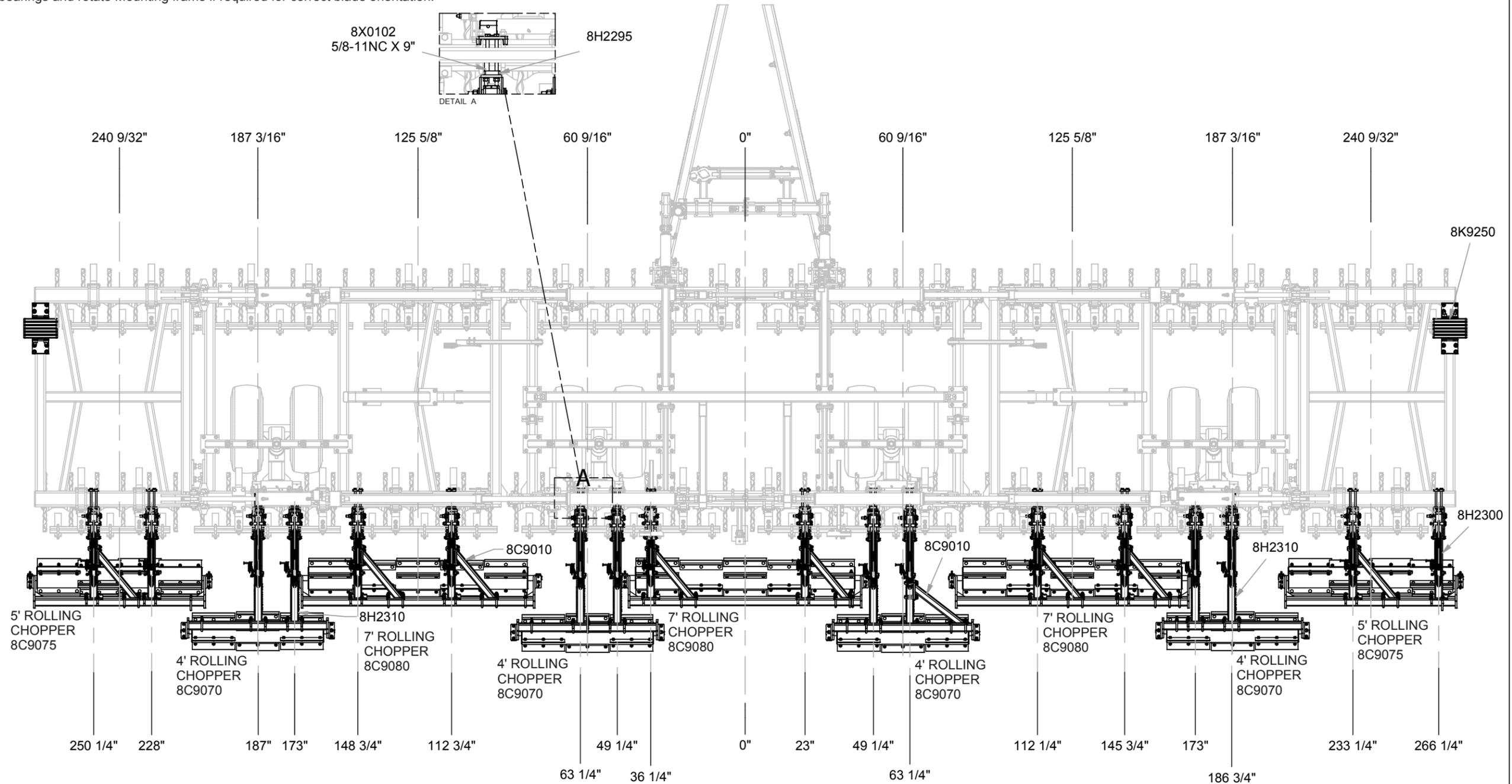
SCRAPER FLATS AND ARMS MUST NOT LINE UP OR INTERFERENCE WILL OCCUR WHEN COULTER GANG FLEXES. MOVE SCRAPER FLAT OR ARM SIDEWAYS TO PREVENT INTERFERENCE.

SUPERCOUALTER MNT ROLLING CHOPPER LAYOUT 45'

Rolling Chopper blades are designed to enter the soil vertically and exit horizontally. 4' and 5' Rolling Chopper Assemblies are set up for installation on 8H2310 arms in the back position (gussets to the back). 7' Rolling Chopper Assemblies are set up for installation on 8H2300 arms in the forward position (gussets to the front). Disconnect bearings and rotate Mounting frame if required for correct blade orientation.

NOTE: Position Weights as far forward as possible on the implement to balance additional weight of Rolling Choppers.

SCRAPER FLATS AND ARMS MUST NOT LINE UP OR INTERFERENCE WILL OCCUR WHEN COULTER GANG FLEXES. MOVE SCRAPER FLAT OR ARM SIDEWAYS TO PREVENT INTERFERENCE.



Mounting plate bolt pattern must match mounting bracket. Rotate plate if required, 8X0102 (included) 5/8" x 9" bolts are used to mount arms to implement behind wheel assemblies.

NOTE: Raise machine slowly the first time after installation of Mnt. CHOPPERS, watch for interference. Reposition brackets if required.

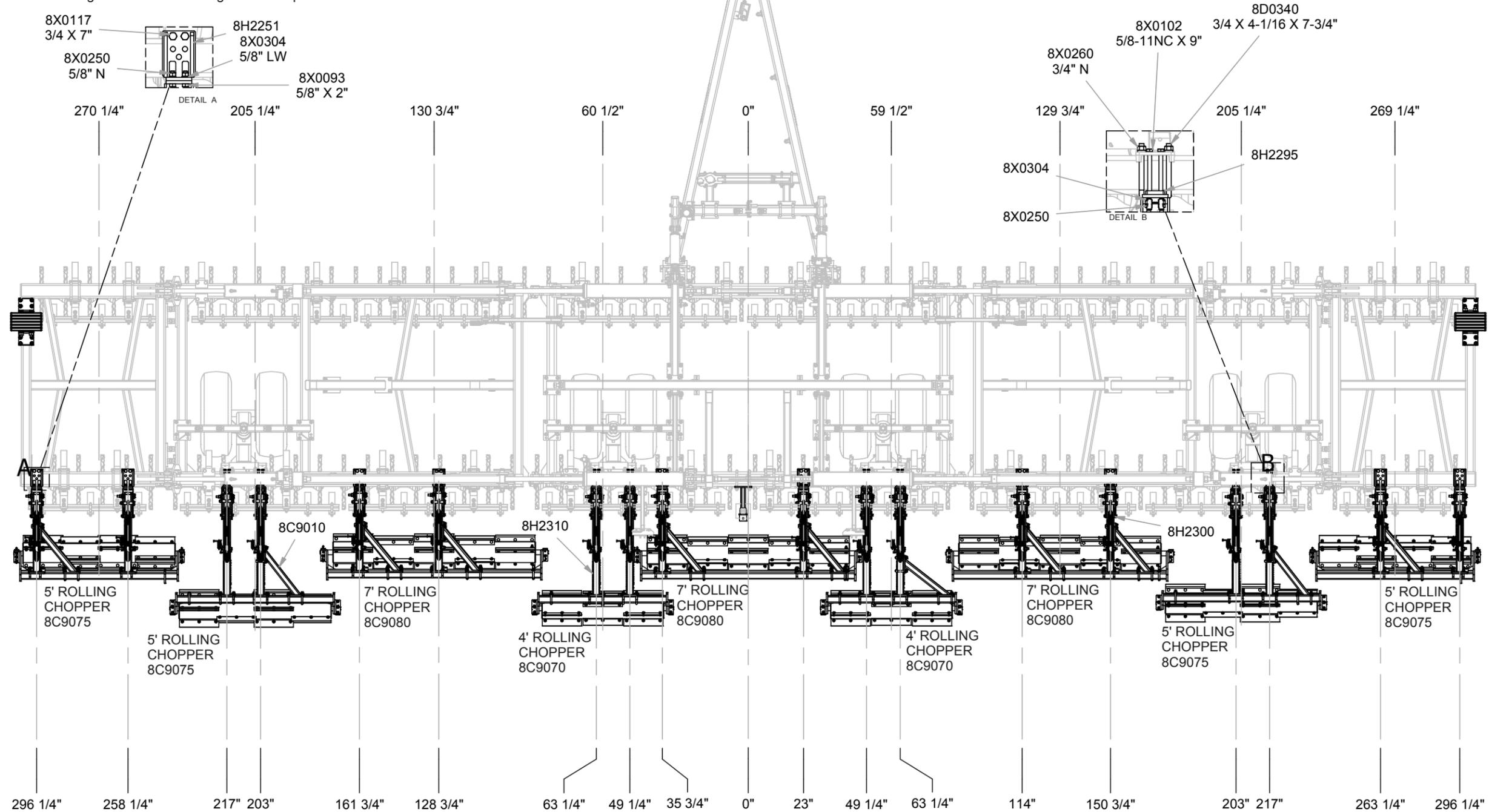
3/29/2017 8J9145.idw/45' SC MNT RLLG CHPPR

SUPERCOUNTER MNT ROLLING CHOPPER LAYOUT 50'

Rolling Chopper blades are designed to enter the soil vertically and exit horizontally. 4' and 5' Rolling Chopper Assemblies are set up for installation on 8H2310 arms in the back position (gussets to the back). 7' Rolling Chopper Assemblies are set up for installation on 8H2300 arms in the forward position (gussets to the front). Disconnect bearings and rotate Mounting frame if required for correct blade orientation.

NOTE: Position Weights as far forward as possible on the implement to balance additional weight of Rolling Choppers.

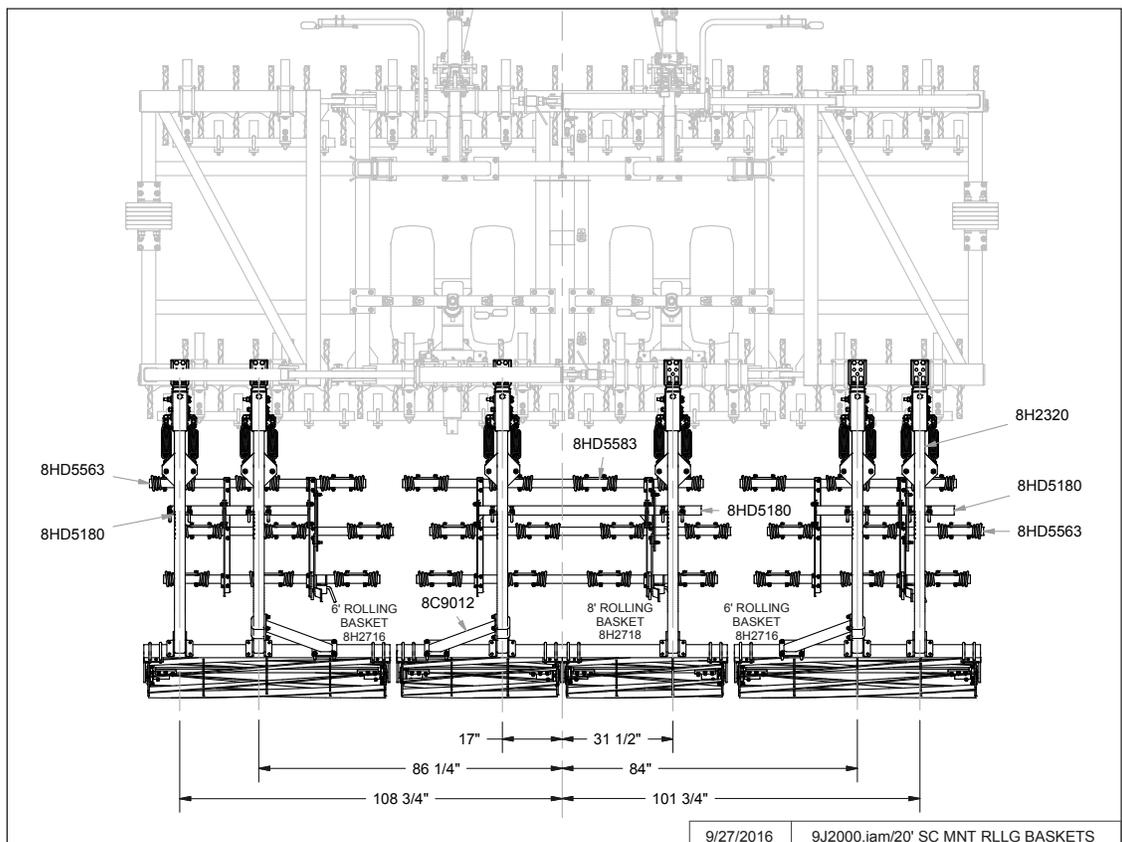
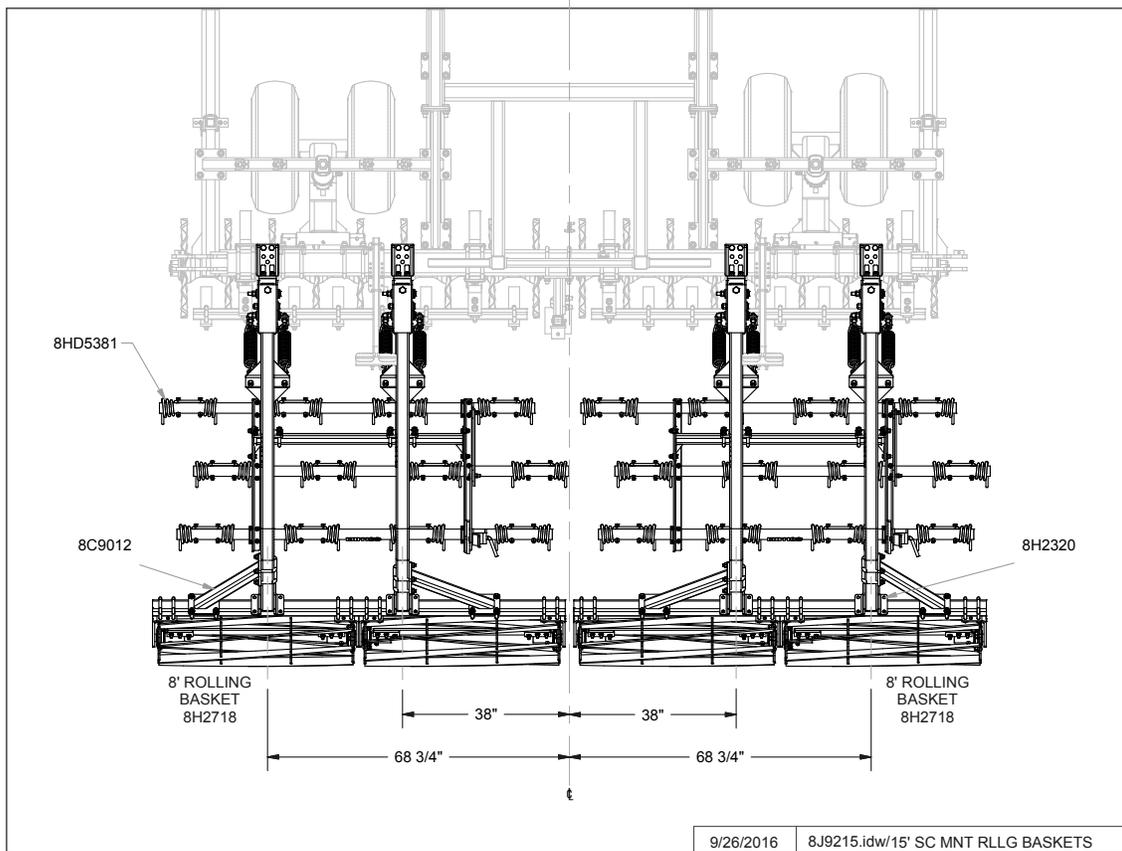
SCRAPER FLATS AND ARMS MUST NOT LINE UP OR INTERFERENCE WILL OCCUR WHEN COULTER GANG FLEXES. MOVE SCRAPER FLAT OR ARM SIDEWAYS TO PREVENT INTERFERENCE.



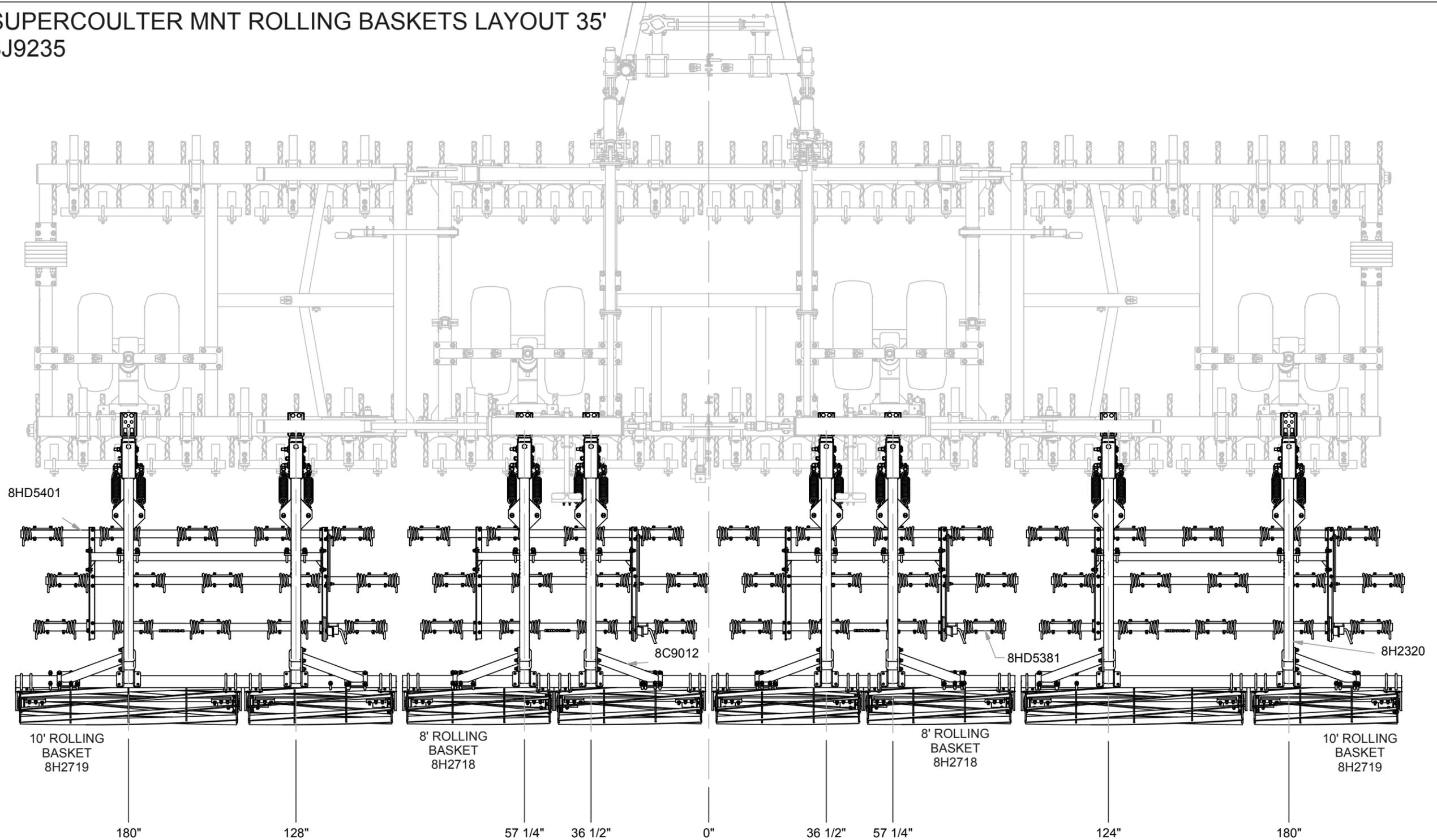
Mounting plate bolt pattern must match mounting bracket. Rotate plate if required, 8X0102 (included) 5/8" x 9" bolts are used to mount arms to implement behind wheel assemblies.

NOTE: Raise machine slowly the first time after installation of Mnt. CHOPPERS, watch for interference. Reposition brackets if required.

3/30/2017 8J9150.idw/50' SC MNT RLLG CHPPR

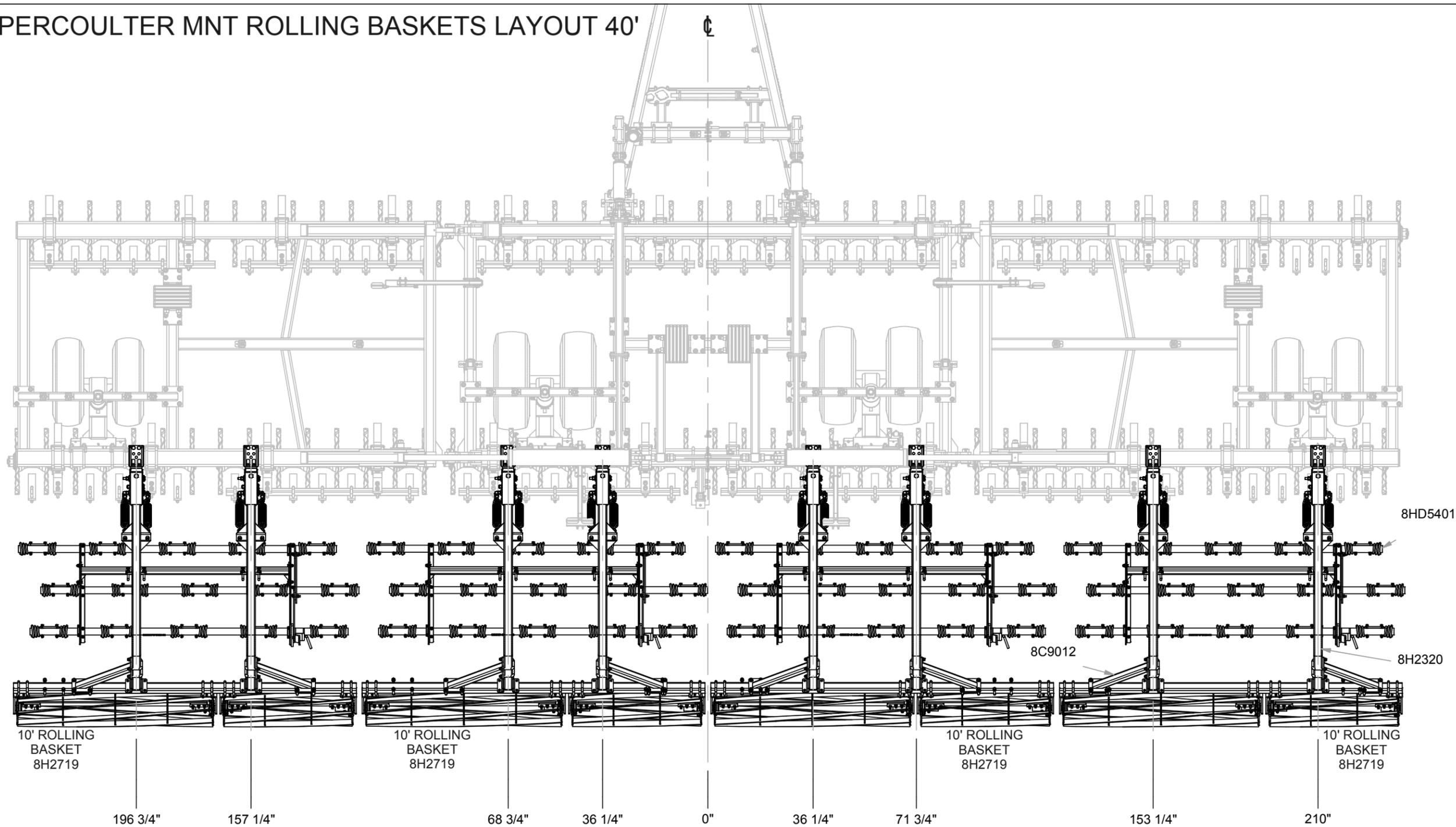


SUPERCOUNTER MNT ROLLING BASKETS LAYOUT 35'
8J9235



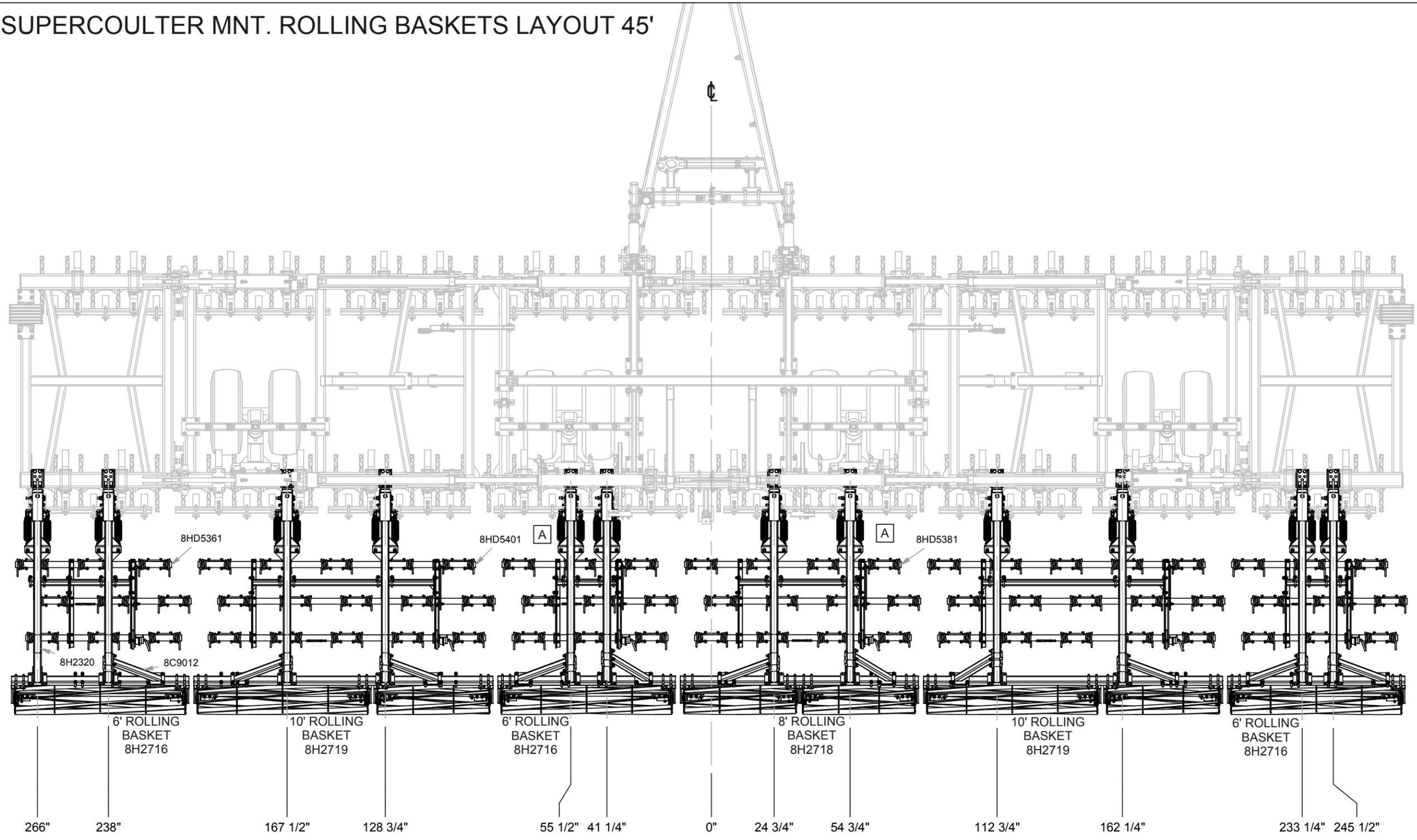
9/28/2016 9J3500.iam/35' SC RLLNG BSKT LAYOUT

SUPERCOUNTER MNT ROLLING BASKETS LAYOUT 40'



9/28/2016 8J9240.idw/40' SC RLLNG BSKT

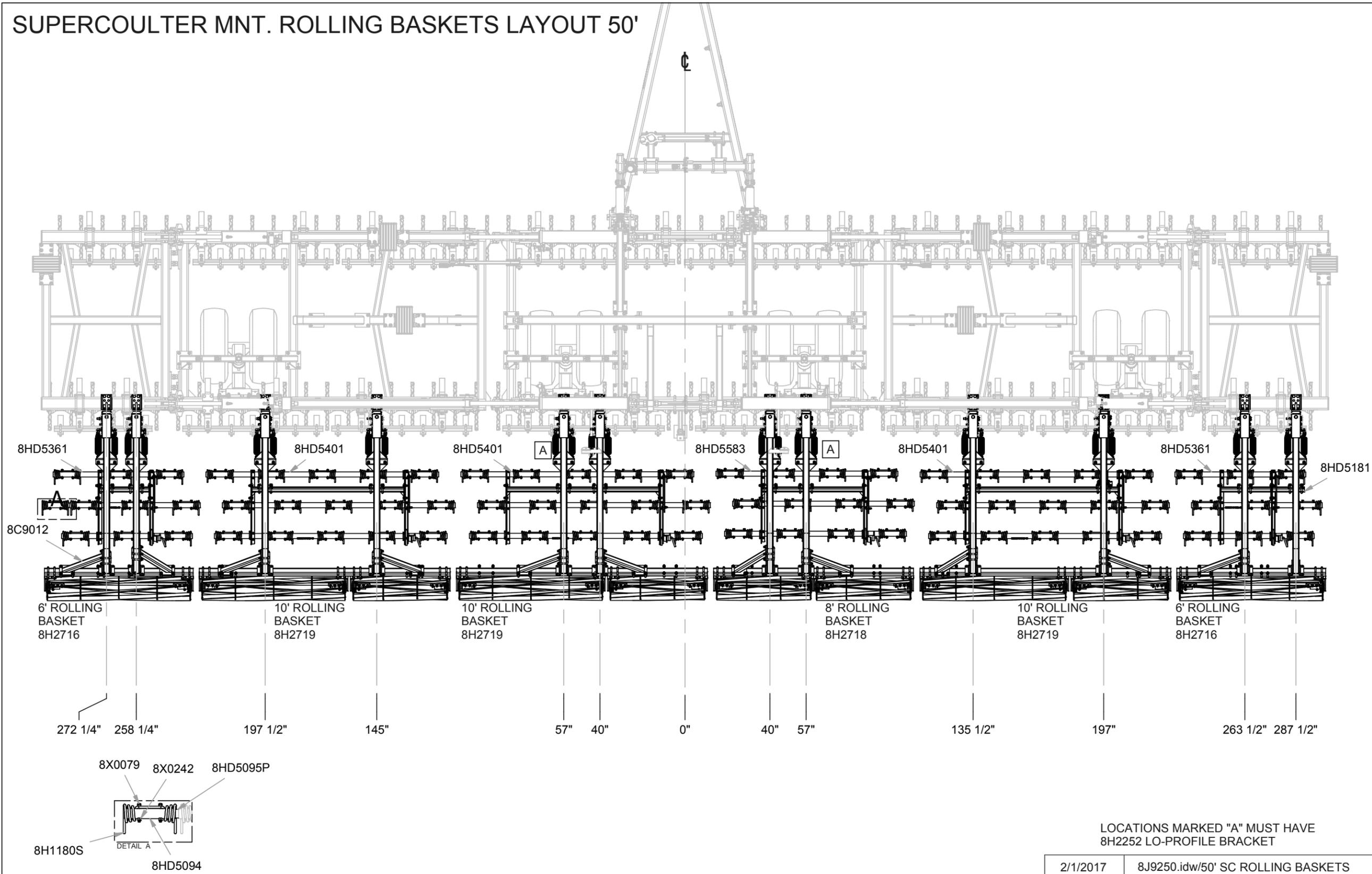
SUPERCOULTER MNT. ROLLING BASKETS LAYOUT 45'



LOCATIONS MARKED "A" MUST HAVE 8H2252 LO-PROFILE BRACKET

9/29/2016	8J9245.idw/45' SC ROLLING BASKETS
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SUPERCOUNTER MNT. ROLLING BASKETS LAYOUT 50'



START-UP AND HYDRAULIC OPERATION

INITIAL START UP PROCEDURE FOR SUPERCOULTER LIFT HYDRAULIC CYLINDERS

This SUPERCOULTER has a Master-Slave Hydraulic Lift System. Fully extend hydraulic cylinders and MAINTAIN HYDRAULIC PRESSURE for 30 seconds to insure all air is purged from system.

NOTE: As oil is pumped into the base end of master cylinder, oil is forced out of the rod end into the base end of each slave cylinder. To compensate for the smaller volume of oil in the rod end of the master cylinder, each slave cylinder is 1/2" smaller in diameter. When cylinders are fully extended, oil will bypass through a rephasing slot on each cylinder in order to equalize the system. The tractor SCV lever must be held for a few seconds to accomplish this passage of oil through the system. See diagram below.

INITIAL START-UP PROCEDURE FOR WING LIFT HYDRAULIC CYLINDERS

The wing lift hydraulic cylinders on this SUPERCOULTER must be charged with oil before attempting to raise the wings.

The best method of performing this is to disconnect the rod end of the fold cylinders from the wings and connect the hoses to the tractor's couplers. Make sure the tractor reservoir is full of the manufacturer's recommended hydraulic oil. Extend and retract the cylinders until the action is positive and all air is purged from the system. Due to the amount of oil required to fill the cylinders and lines, additional hydraulic oil may be required. After the cylinders have been filled with oil, reconnect the rod ends of the cylinders to the wings. Do not over tighten lock nut. Pivot bolt MUST rotate freely.



CAUTION: Stand clear whenever raising or lowering the wings.

Before lowering the wings, remove the safety lock pins and place them in the storage positions. After the wings are lowered, extend the cylinders fully

BEFORE INITIAL OPERATION

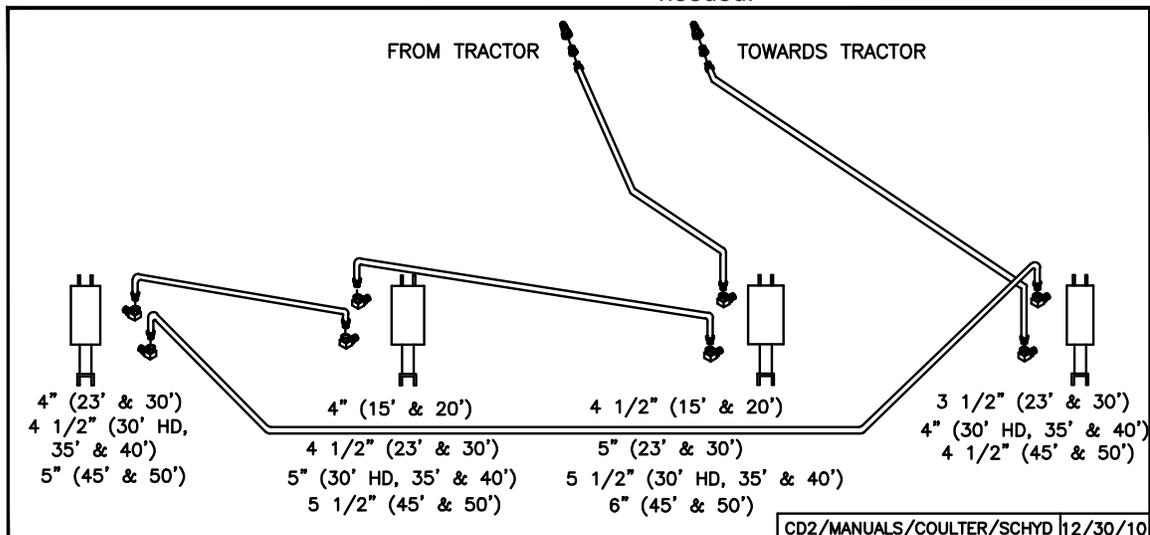
1. After receiving or assembling your SUPERCOULTER, it is a good practice to double check the entire machine so that all bolts are securely tightened.
2. Make sure all grease fittings are in place and greased properly.
3. Inflate all lift tires to the recommended inflation pressure (see Maintenance) and check wheel bolts.

AFTER FIRST TWO HOURS OF OPERATION

1. Recheck wheel bolts for tightness and tighten spindle nuts if any side-play is evident in the bearings.
2. Check gang shafts for tightness. This procedure should be repeated daily through the first twenty hours of operation. Gang shafts should be tightened to 1200 foot-pounds.

NOTE: A 1/4" spacer (PN 8X0366) is available and should be installed when the castle nut has been tightened past the lock bolt.

3. Bearing and C-shaped shank mounting bolts should be checked for tightness. This procedure should also be repeated daily during the first twenty hours of operation.
4. The scrapers should be checked and tightened if needed.



MAINTENANCE

GANG BEARINGS:

Note: Zerks are installed on both front and back of gang bearing cast holders for your convenience. Both zerks lead to the bearing, only one needs to be greased.

To prevent contamination, insure that coupler and zerk are clean.

To maximize bearing life, grease bearings at mid day or end of day when bearings are at operating temperature.

Every 20 hours: Add three strokes (approx. .14 oz.) of grease to gang bearing. Rotate gang 2-3 revolutions. Add an additional three strokes of grease.

GENERAL:

Maintain disk gang torque at 1200 ft. lb.

Daily: Grease all pivot points. Check all wheel bolts/nuts for tightness. Recommended torque listed below:

Hub	Torque
614 – 6 Bolt	170 ft-lb
812 – 8 Bolt	240 ft-lb
817 – 8 Bolt	240 ft-lb

Tighten spindle nuts if any side-play is evident in the bearings.

Seasonally: Clean and repack wheel bearings.

TIRE INFLATION: Recommended tire inflations listed below:

Size	Ply	Pressure
11L x 15	LRF	85 psi
12.5L x 15	LRF	90 psi
340/65R18	148A8	78 psi

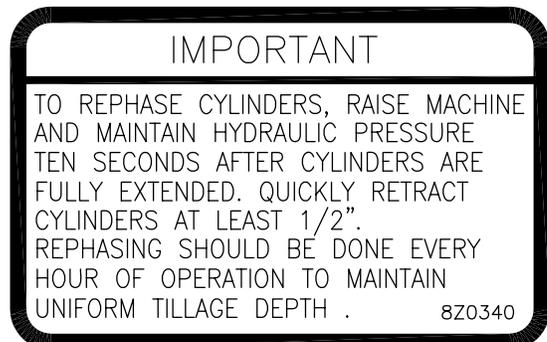
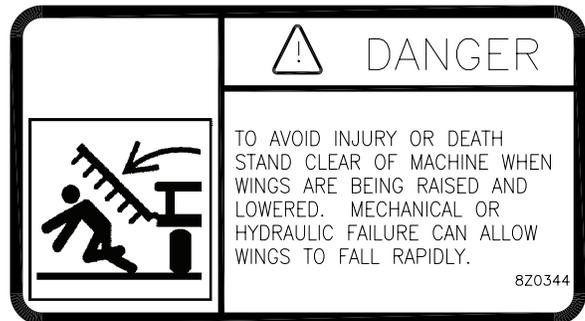
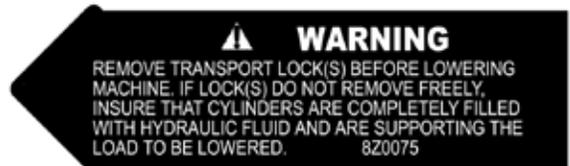
FIELD OPERATION

The following procedure should be used for field operation of your Summers SUPERCOULTER.

1. Connect SUPERCOULTER to tractor using drawpin with keeper and safety chain. Retract jacks and place in storage position. Connect hydraulics and light kit.
2. Remove wing safety lock pins and transport locks, place in their storage positions. SEE WARNING AND DANGER DECALS IN RIGHT COLUMN.
3. With the SUPERCOULTER in a level area of the field, lower machine to desired field working depth. Level the front and back gangs hydraulically with Hyd. Hitch option.
4. Again with the SUPERCOULTER in a level area of the field, level wings with center section by adjusting threaded eye bolt above each hydraulic cylinder. This adjustment will make a difference only if weight is being supported by the tires. If machine is not running level and no weight is being supported by the tires, ballast must be changed.

Important: Pressure must be removed from cylinders before adjusting eyebolts. Rest SUPERCOULTER on top of the ground, shut tractor off and relieve pressure by cycling hydraulic remote lever. Insure that rod end and base end cylinder pins are aligned when eye bolts are retightened.

NOTE: Reduce speed, reduce cutting depth and use minimum ballast when working in rocky conditions. Do NOT turn with SuperCoulter blades in ground in rocky or frozen conditions. Damage will occur to machine if operated at more than 5.5 mph in rocky or frozen conditions. This damage is NOT covered by warranty.



Maintenance & Specifications



The Summers SUPERCOUNTER is equipped with manual wing and center lift cylinder locks. The following procedure should be used to prepare the SUPERCOUNTER for transport.

1. Check that wing locks are in the storage positions.
 2. Raise wings using the hydraulic control.
 3. Install safety locks on wings and center lift cylinders.
 4. USE a safety chain between tractor drawbar and SUPERCOUNTER hitch when transporting on public roads.
 5. Check wheel bolts / nuts after first 20 miles of road transport and every 60 miles there after.
 6. Tow the implement at a reasonable speed not to exceed 20 miles per hour.
- Always use an ASAE "Slow Moving Vehicle" emblem and Safety Lights when transporting on a road or highway. Comply with your state and local laws governing lighting and maximum width regulations. Transport during daylight hours only.

SPECIFICATIONS

SIZE	TRANSPORT WIDTH	APPROX. TRANSPORT HEIGHT	TRANSPORT LENGTH W/O M104 HARROWS	WEIGHT NO ATTCHMNT	ENGINE H/POWER W/O ATTCH	MAX.* WEIGHT
15'	15'1"	5'8"	20'	8600#	74-129	11,600#
20'	14'3"	8'8"	20'	13,300#	98-172	17,000#
23'	15'8"	10'3"	20'	14,800#	112-197	18,000#
30' Narrow Center	15'4"	14'0"	20'	17,600#	147-257	21,400#
30' Wide Center	19'6"	10'9"	20'	16,950#	147-257	21,000# w/812 hub opt.
30' WC Hvy Duty	19'6"	10'9"	20'	20,850#	140-270	24,000#
35'	19'6"	13'10"	20'	20,000#	175-301	23,500#
40'	19'6"	16'	20'	21,600#	196-343	25,500#
45'	19'6"	14'6"	20'	24,600#	225-390	30,000#
50'	19'6"	16'8"/16'11"***	23'	25,700#	245-430	31,950#

*If field conditions require, suitcase weights can be added or removed. DO NOT EXCEED MAXIMUM MACHINE WEIGHT. If mounted harrows or other attachments are installed, an equivalent weight of suitcase weights MUST be removed.

**With M104 Rolling Basket Attachment

Additional ballast is not recommended in rocky conditions.

NOTE: Machine weight MUST NOT EXCEED transport tire, wheel and hub rating.

STANDARD FEATURES

- * .256"x22" DIAMETER COULTER BLADES EITHER 13 WAVES X 1.25" PITCH, TURBO, FLAT OR 8 WAVE X 1.75" PITCH (20" DIA. WITH OR WITHOUT NOTCHES)
- * FRONT TO BACK GANG SPACING IS 78" CENTER TO CENTER
- * 2" DIAMETER GANG SHAFTS WITH TOGGLE MOUNTED, SHIELDED, TRIPLE SEAL BALL BEARINGS ARE RELUBRICABLE AND SELF-ALIGN AS THE GANG FLEXES
- * 8" STROKE REPHASING LIFT CYLINDERS
- * COULTER BLADE SPACED 10" FOR 5" EFFECTIVE COVERAGE
- * DUCTILE CAST HALF SPOOLS
- * SAFETY CHAIN FOR TOWING
- * SAFETY LIGHT KIT
- * HYDRAULIC HITCH

OPTIONAL FEATURES

- * SUMMERS M104 OR M105 MOUNTED HARROW, ROLLING CHOPPER OR M104 ROLLING BASKET
- * REAR HITCH
- * HUBS, WHEELS & TIRES

STORAGE

Proper rust prevention treatment of equipment before placing in storage will not only lengthen its useful life, but will assist in maintaining optimum performance when put back into service.

The following list contains suggestions for preparing your SUPERCOUNTER for storage.

1. Clean the entire machine. Remove all dirt and excessive grease from the SUPERCOUNTER.
2. Check the SUPERCOUNTER over thoroughly for damaged or worn parts, cracked or broken blades, and loose bolts.
3. The wheel bearings should be cleaned and repacked each year.
4. Grease all zerks.
5. Block up the SUPERCOUNTER to remove weight from the tires.
6. If the SUPERCOUNTER is lowered to the ground, place boards under the coultter blades.
7. Disconnect rods and fully retract the cylinders to prevent rusting of shafts and subsequent seal damage. If left extended, coat rods with grease to prevent corrosion. Remove grease prior to retracting cylinders.
8. For safety, do not store the SUPERCOUNTER with the wings folded up.
9. Clean and place a protective coating of heavy oil or grease on earth-working parts to prevent rusting.
10. Touch-up any spots where the paint has been scratched or worn off.

TROUBLESHOOTING

NO.	PROBLEM	CAUSE	CORRECTION	PAGE
1.	Gangs plugging.	Extremely wet field conditions.	Allow to dry.	66
			Adjust machine to run rear gangs deeper.	
2.	Poor penetration, center section.	SUPERCOUNTER not running level from front to rear.	Level SUPERCOUNTER hydraulically with Hyd. Hitch Option.	66
		Wheels are holding SUPERCOUNTER out of the ground.	Adjust center cylinders to lift wheels off ground.	66
		Dry/hard conditions.	Add or relocate 8K9250 Weight Packages. DO NOT exceed MAX. WEIGHT shown on Page 67 OR transport tire, wheel or hub rating.	19 – 34, 73 – 76
3.	Hydraulic cylinders not synchronized.	Hydraulics have drifted or air has entered the system.	Hold hydraulic control lever with the hydraulic cylinders fully extended a few seconds to synchronize rephasing cylinders.	65, 66
4.	Wings do not penetrate.	Dry/hard conditions.	Adjust wing cylinders to lift wheels off ground.	66
			Add or relocated 8K950 Weight Packages. DO NOT exceed MAX. WEIGHT shown on Page 67 OR transport tire, wheel or hub rating.	19 –34, 73 – 76
5.	Gang bolts do not stay tight.	Gangs have run loose for extended time.	Disassemble gang, clean and replace worn components.	86

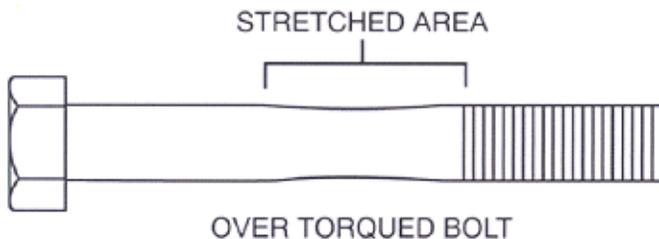
PROPER BOLT USE

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

BOLT SIZE	WRENCH SIZE	GRADE 5		GRADE 8	
		ft-lbs	N • m	ft-lbs	N • m
1/4"	7/16" or 3/8"	7	9.5	12	17
5/16"	1/2"	15	20	25	34
3/8"	9/16"	30	41	45	61
7/16"	5/8" or 11/16"	45	61	70	95
1/2"	3/4"	70	95	105	142
9/16" wheel bolts	7/8"	170	231		
5/8"	15/16"	170	231	210	285
5/8" wheel nuts	1-1/16"	240	325		
3/4"	1-1/16"* or 1-1/8"	250	339	375	509
7/8"	1-5/16"	350	475	600	814
1"	1-1/2"	450	610	880	1193
1-1/4"	1-7/8"	500	678		
1-1/2"	2-1/4"	570	773		
2"	3-1/8"	1200	1627		

*Nylon Lock Nut

3/8/12 TILLAGE



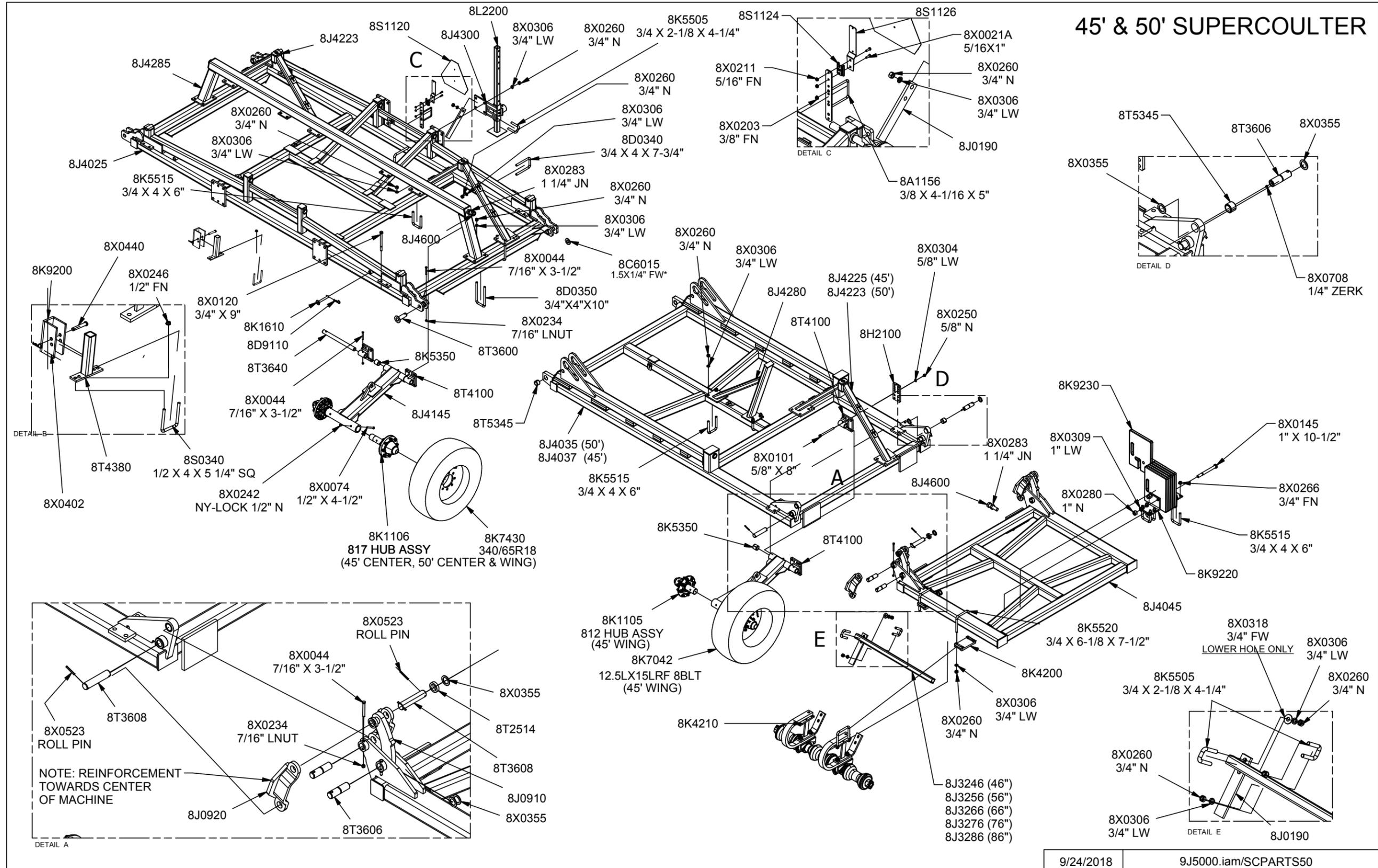
SAE
GRADE 5



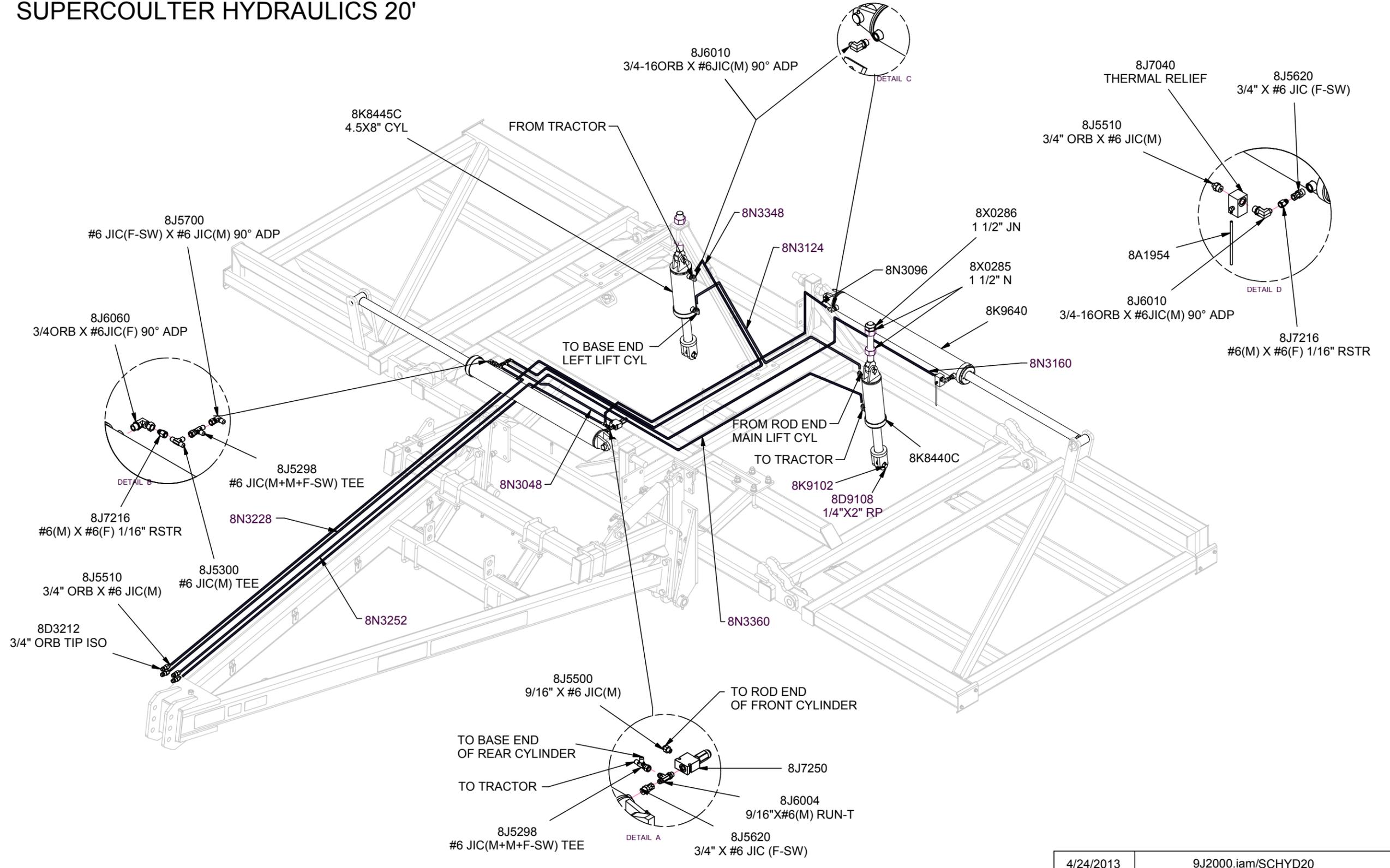
SAE
GRADE 8



REMEMBER TO BRING YOUR OWNER REGISTER INFORMATION LOCATED AT THE BEGINNING OF THIS MANUAL WHEN ORDERING PARTS (SERIAL NUMBER IS LOCATED BY THE FRONT OF THE HITCH).

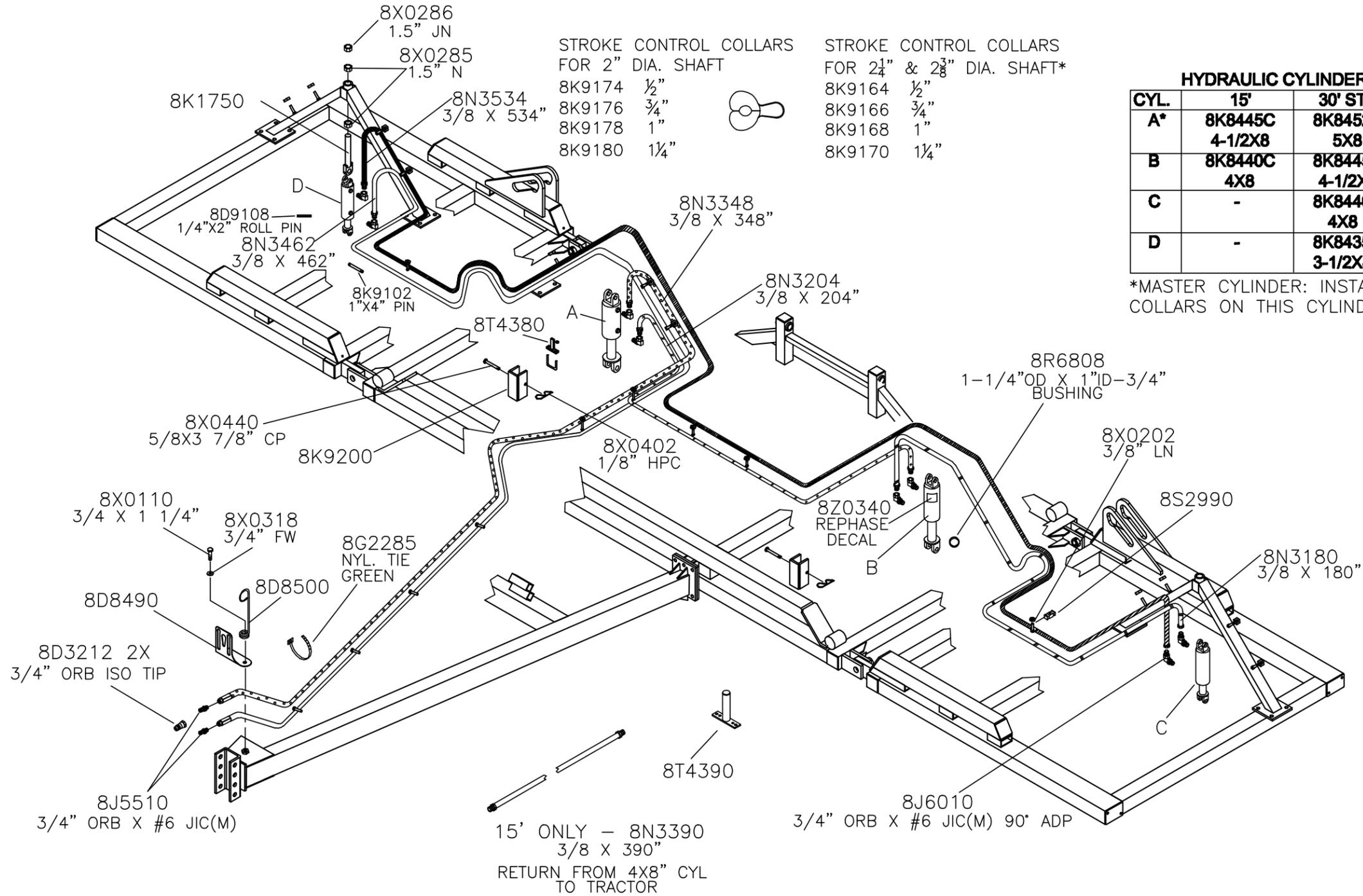


SUPERCOUNTER HYDRAULICS 20'



4/24/2013 9J2000.iam/SCHYD20

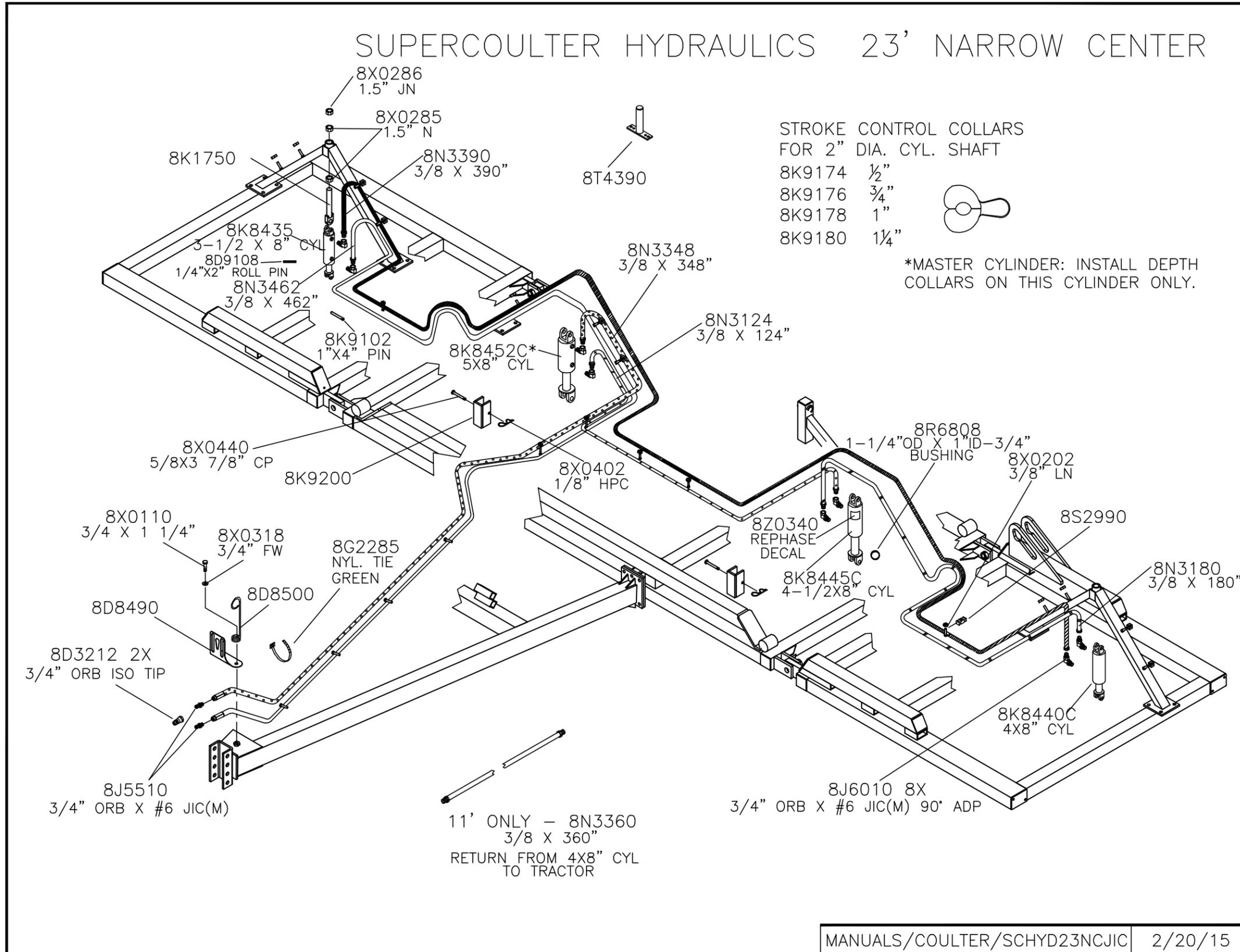
SUPERCOUNTER WIDE CENTER HYDRAULICS 15', 30' STD and 30' HD*

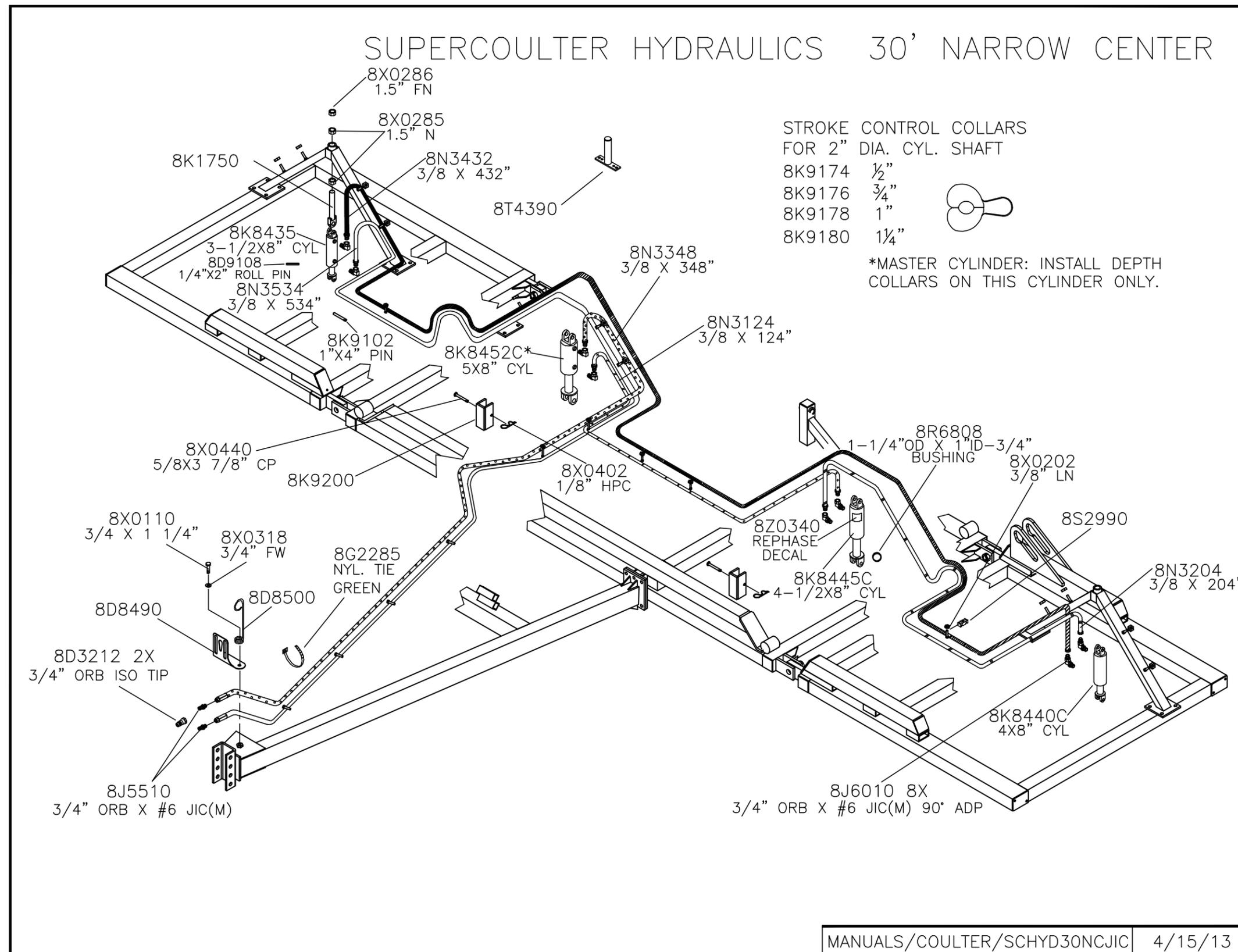


HYDRAULIC CYLINDER CHART

CYL.	15'	30' STD	30' HD
A*	8K8445C 4-1/2X8	8K8452C 5X8	8K8455 5-1/2X8
B	8K8440C 4X8	8K8445C 4-1/2X8	8K8452C 5X8
C	-	8K8440C 4X8	8K8445C 4-1/2X8
D	-	8K8435 3-1/2X8	8K8440C 4X8

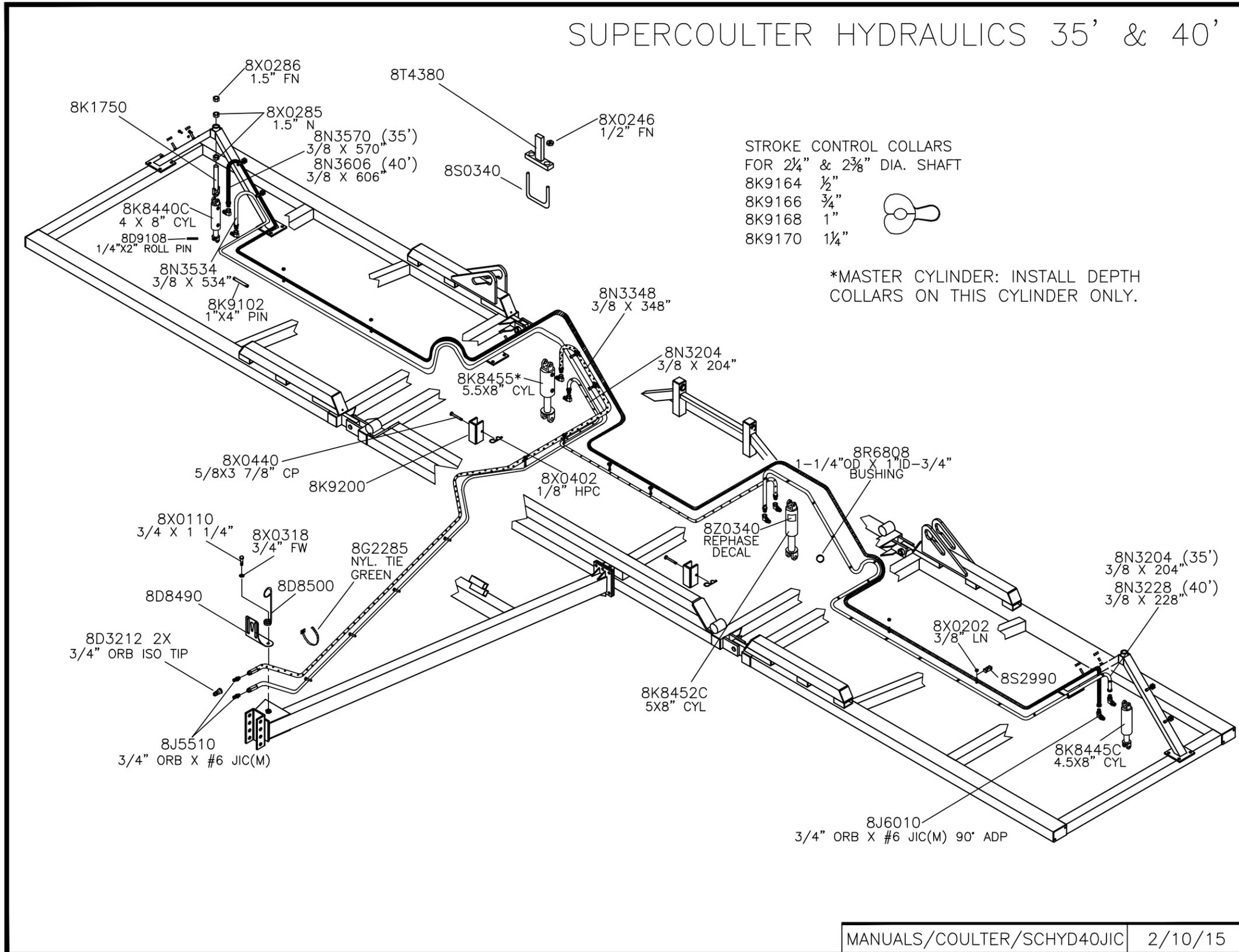
*MASTER CYLINDER: INSTALL DEPTH COLLARS ON THIS CYLINDER ONLY.



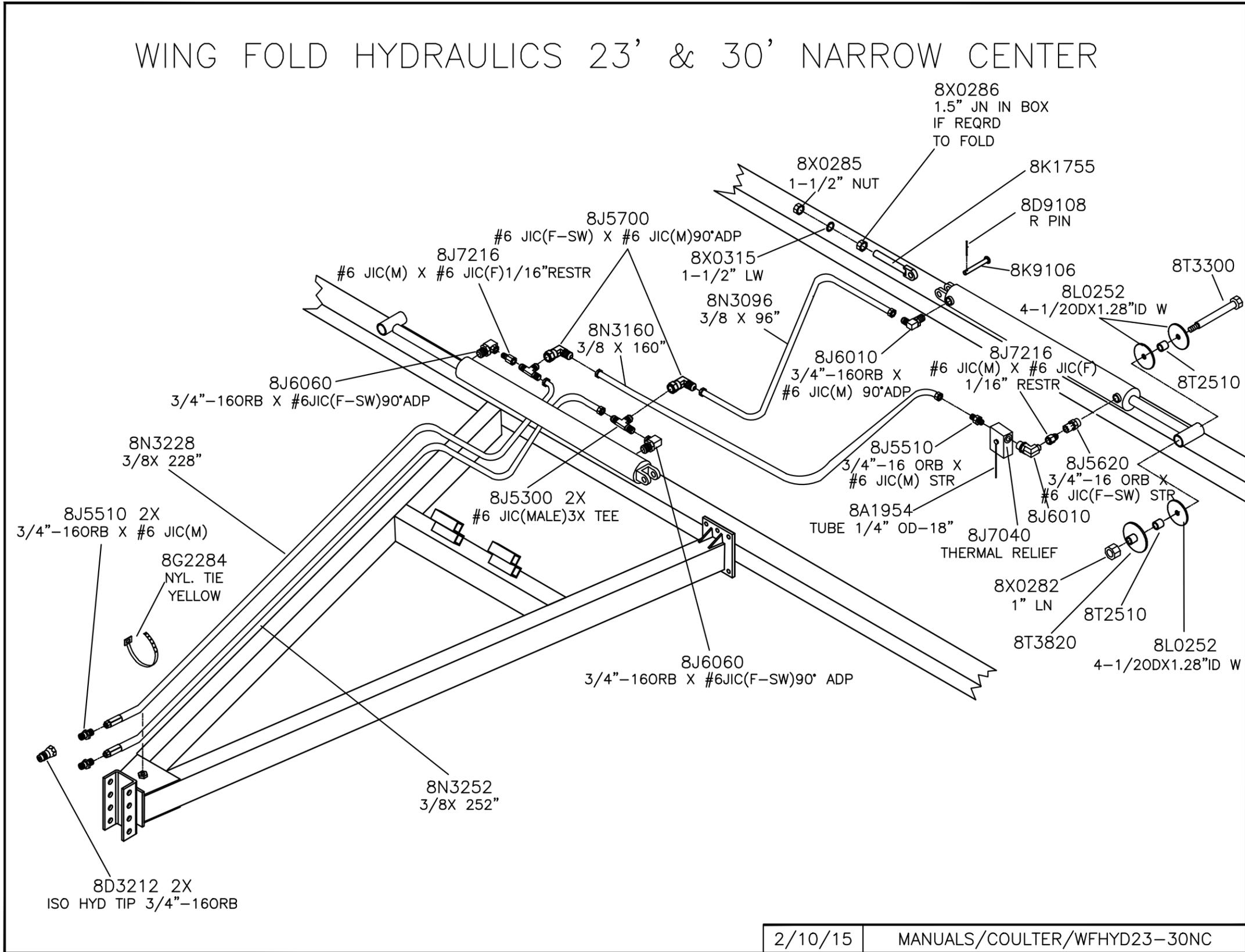


MANUALS/COULTER/SCHYD30NCJIC 4/15/13

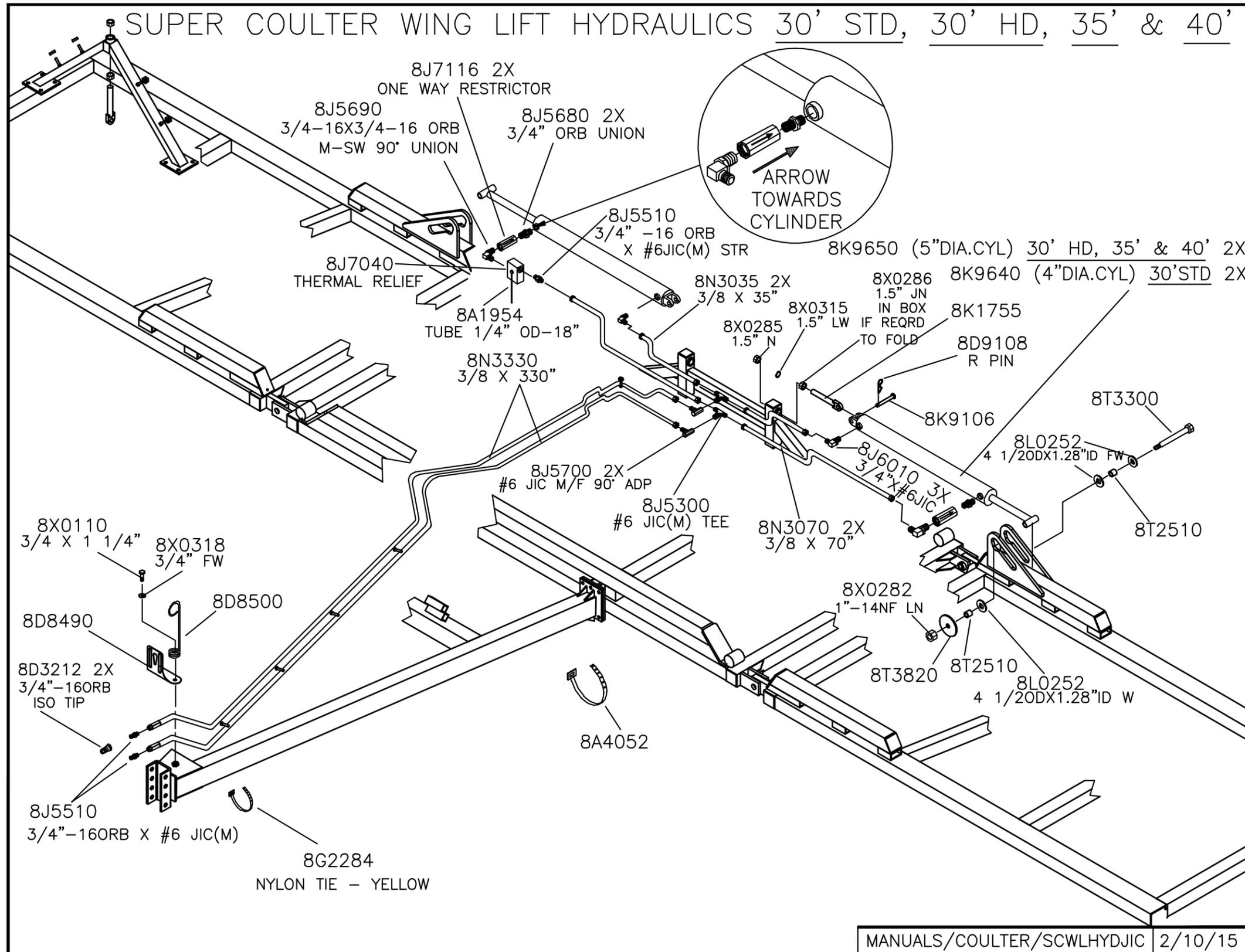
SUPERCOUNTER HYDRAULICS 35' & 40'

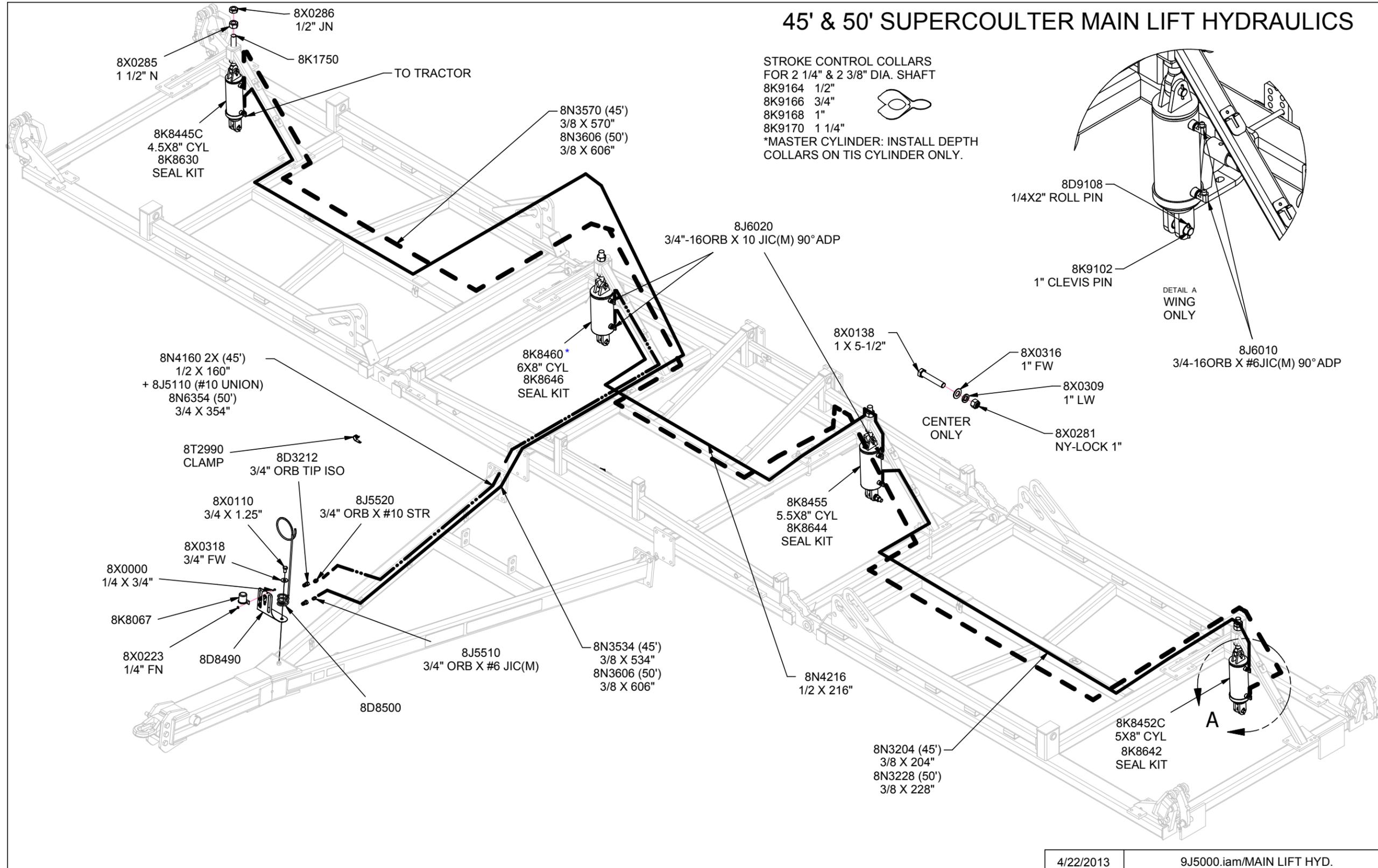


MANUALS/COULTER/SCHYD40JIC 2/10/15



2/10/15 | MANUALS/COULTER/WFHYD23-30NC

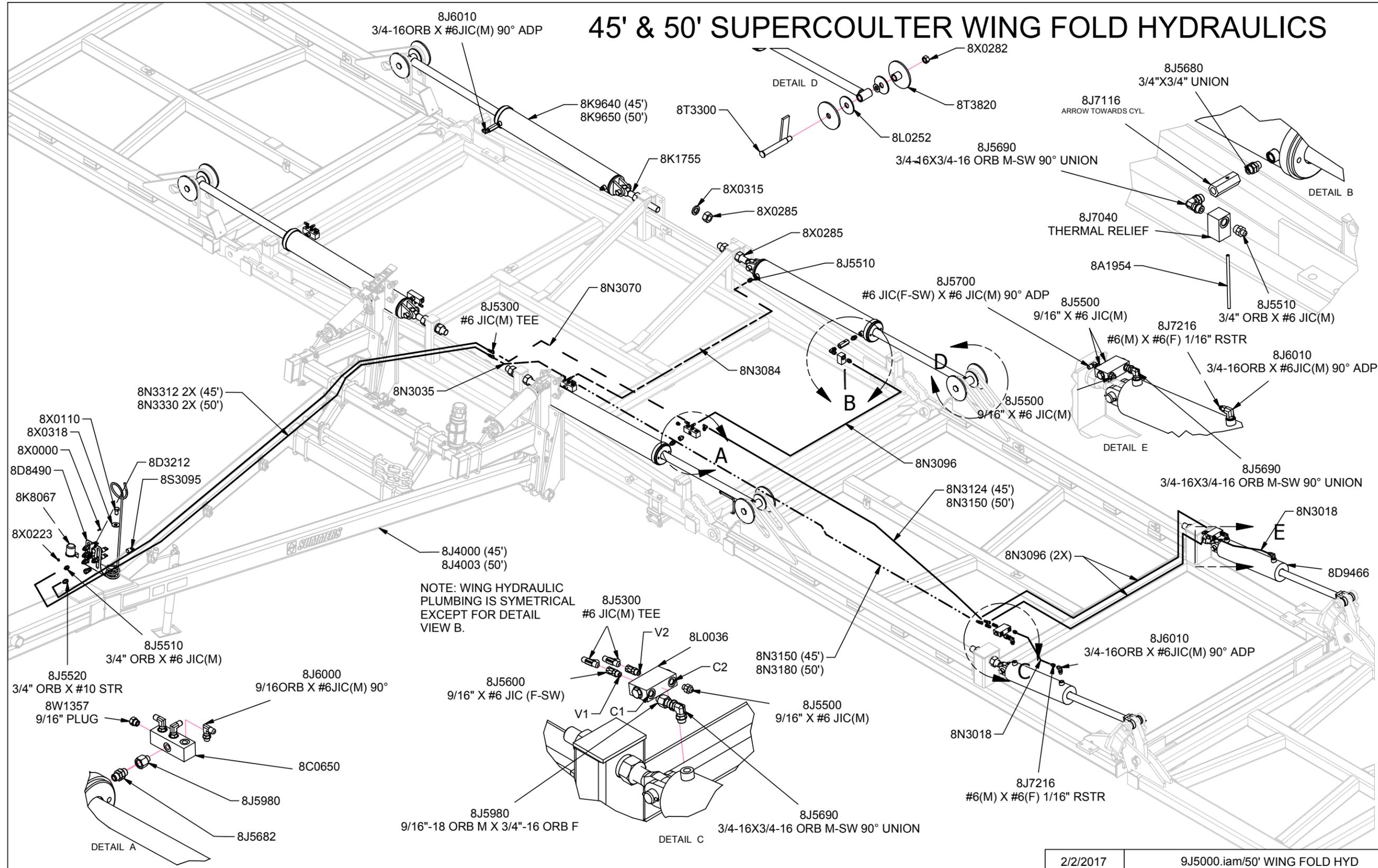




4/22/2013

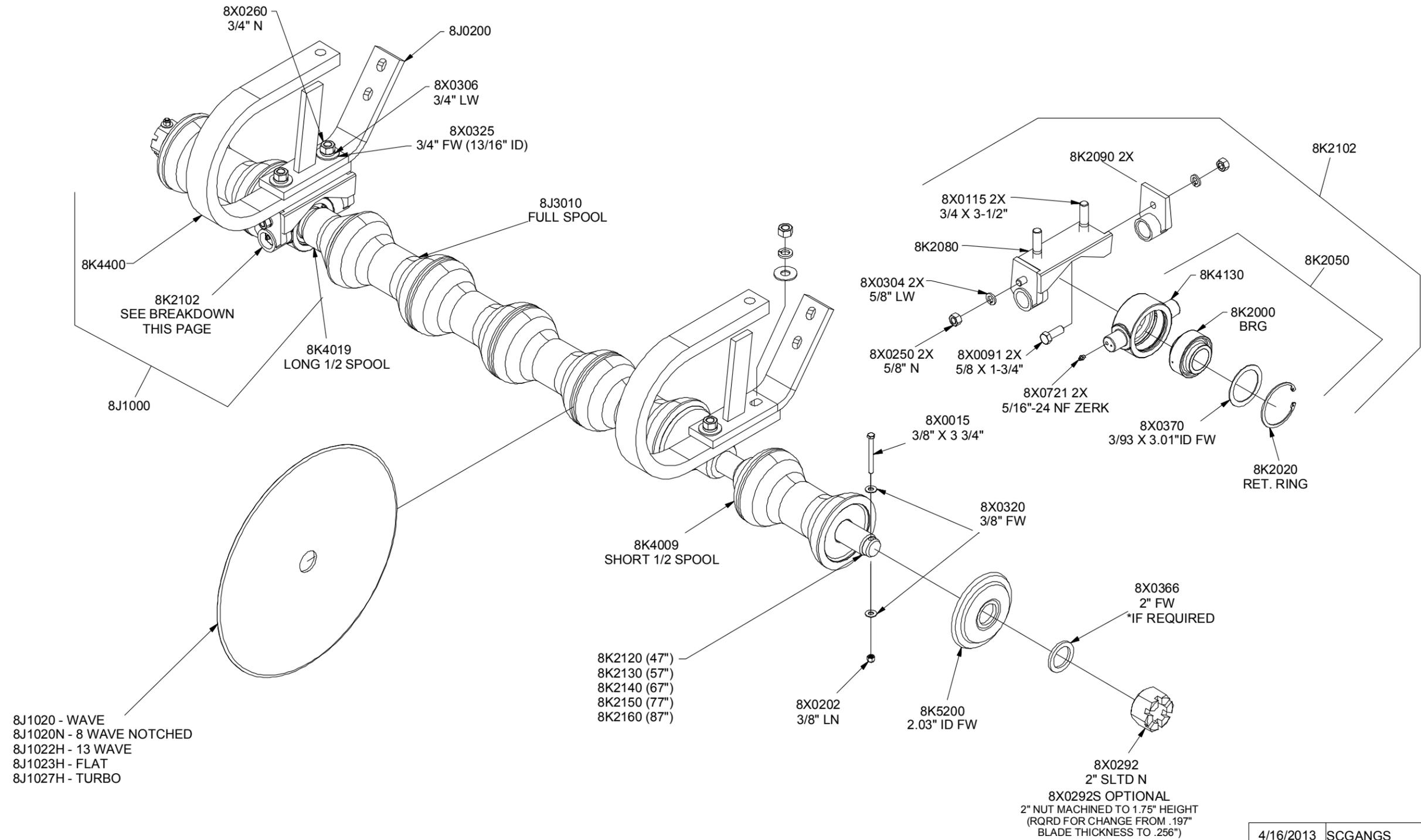
9J5000.iam/MAIN LIFT HYD.

45' & 50' SUPERCOUNTER WING FOLD HYDRAULICS

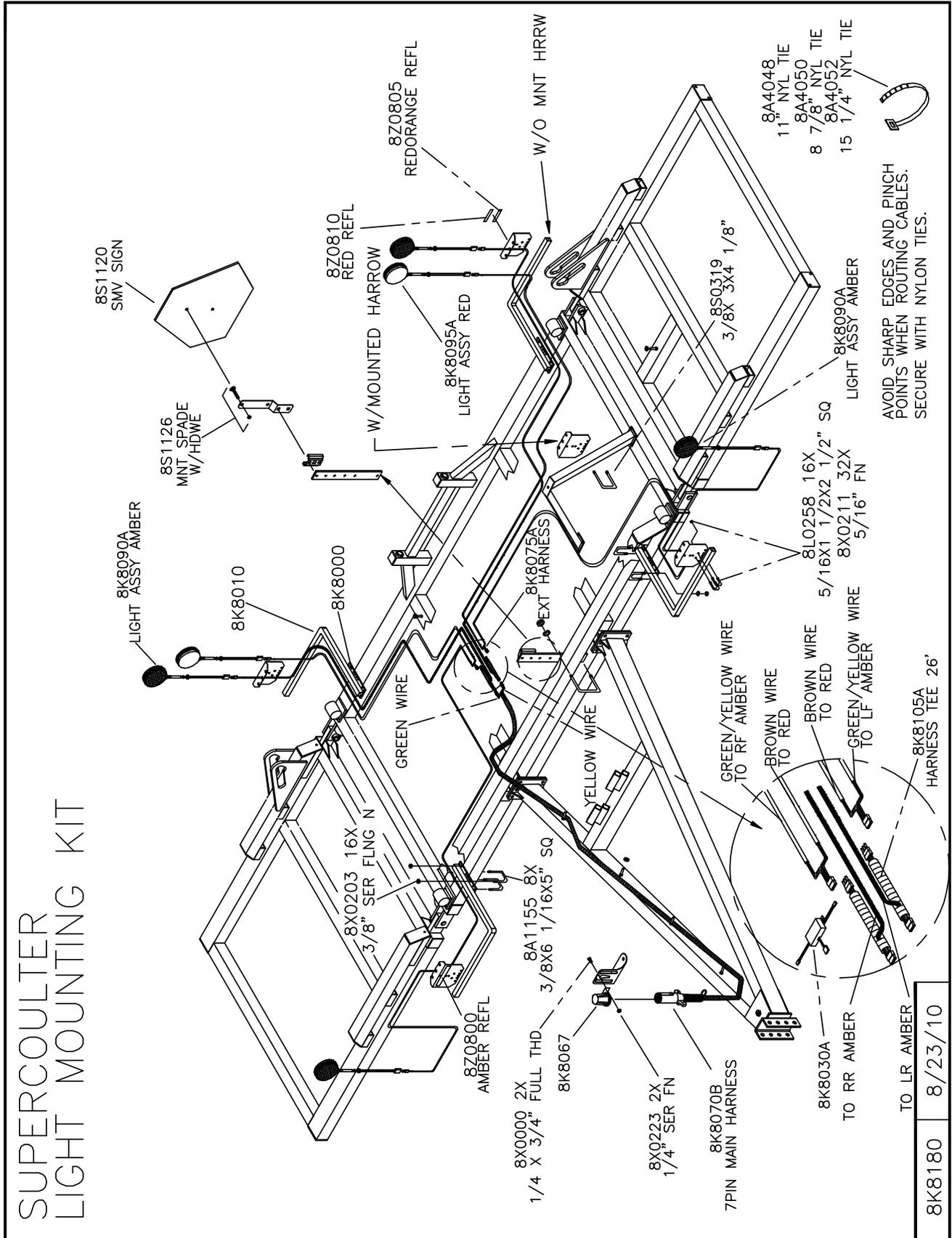


2/2/2017 9J5000.iam/50' WING FOLD HYD

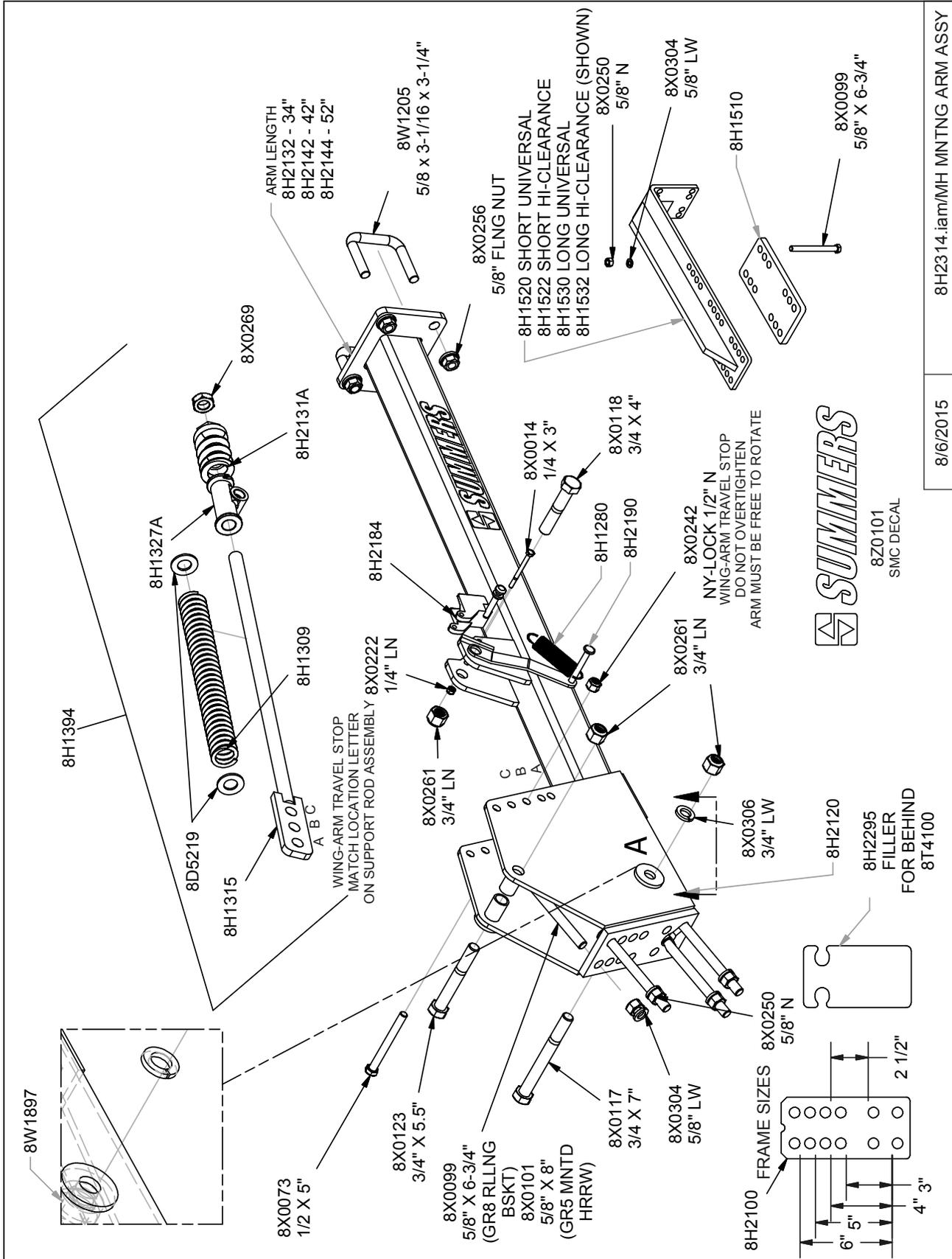
SUPERCOUNTER GANG ASSEMBLIES



4/16/2013 SCGANGS



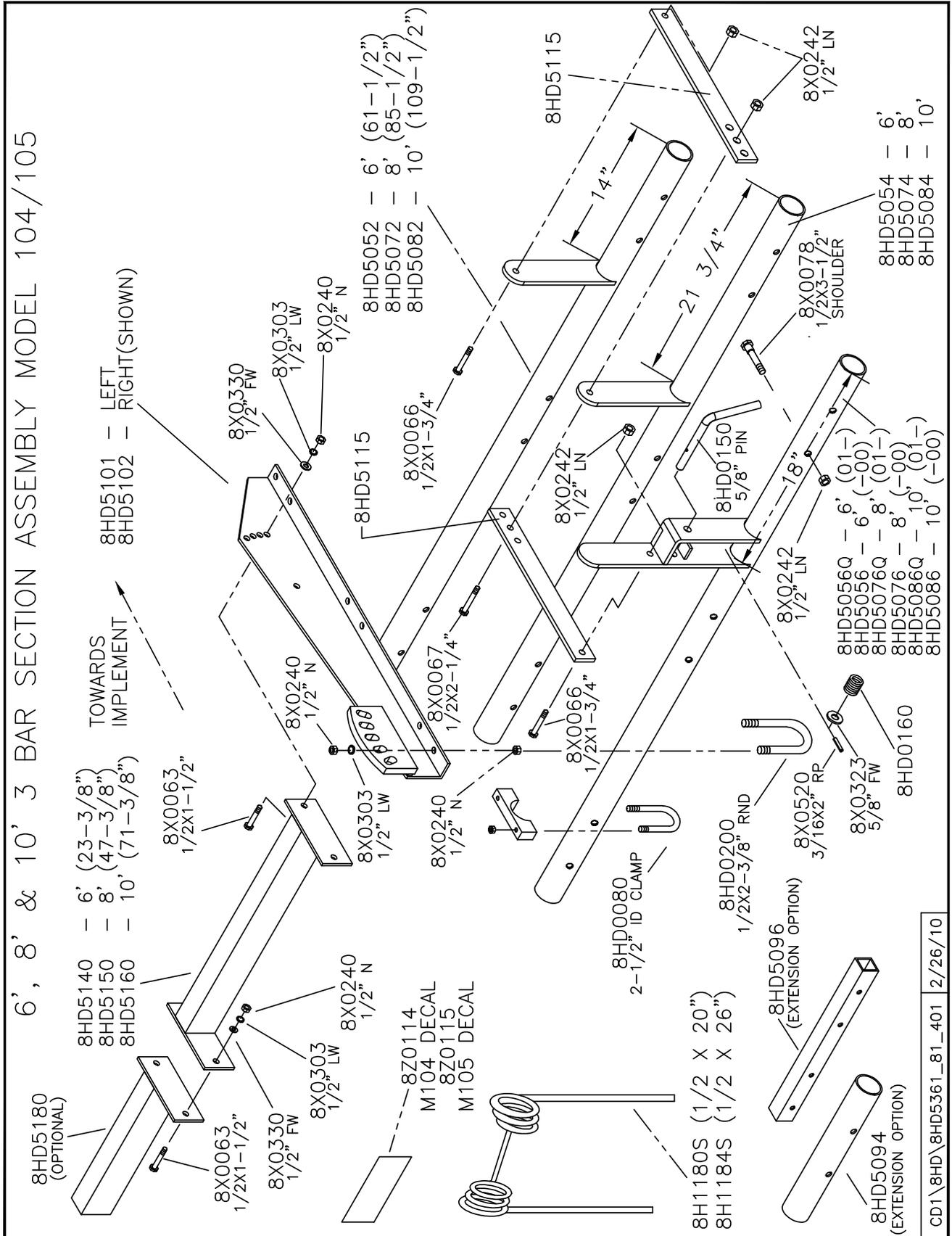
8K8180 8/23/10



8/6/2015 8H2314.iat/MH MNTNG ARM ASSY

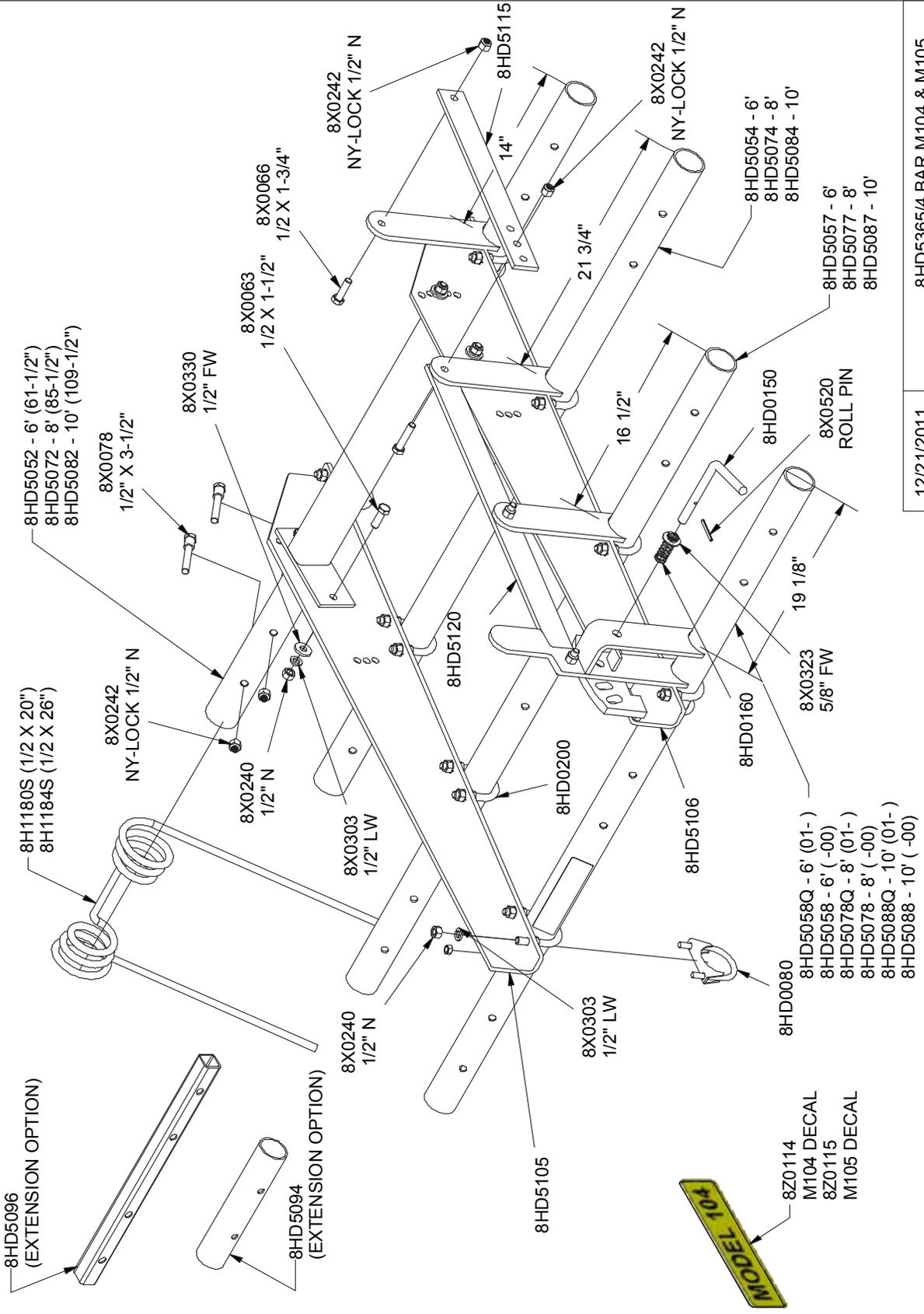


6', 8' & 10' 3 BAR SECTION ASSEMBLY MODEL 104/105

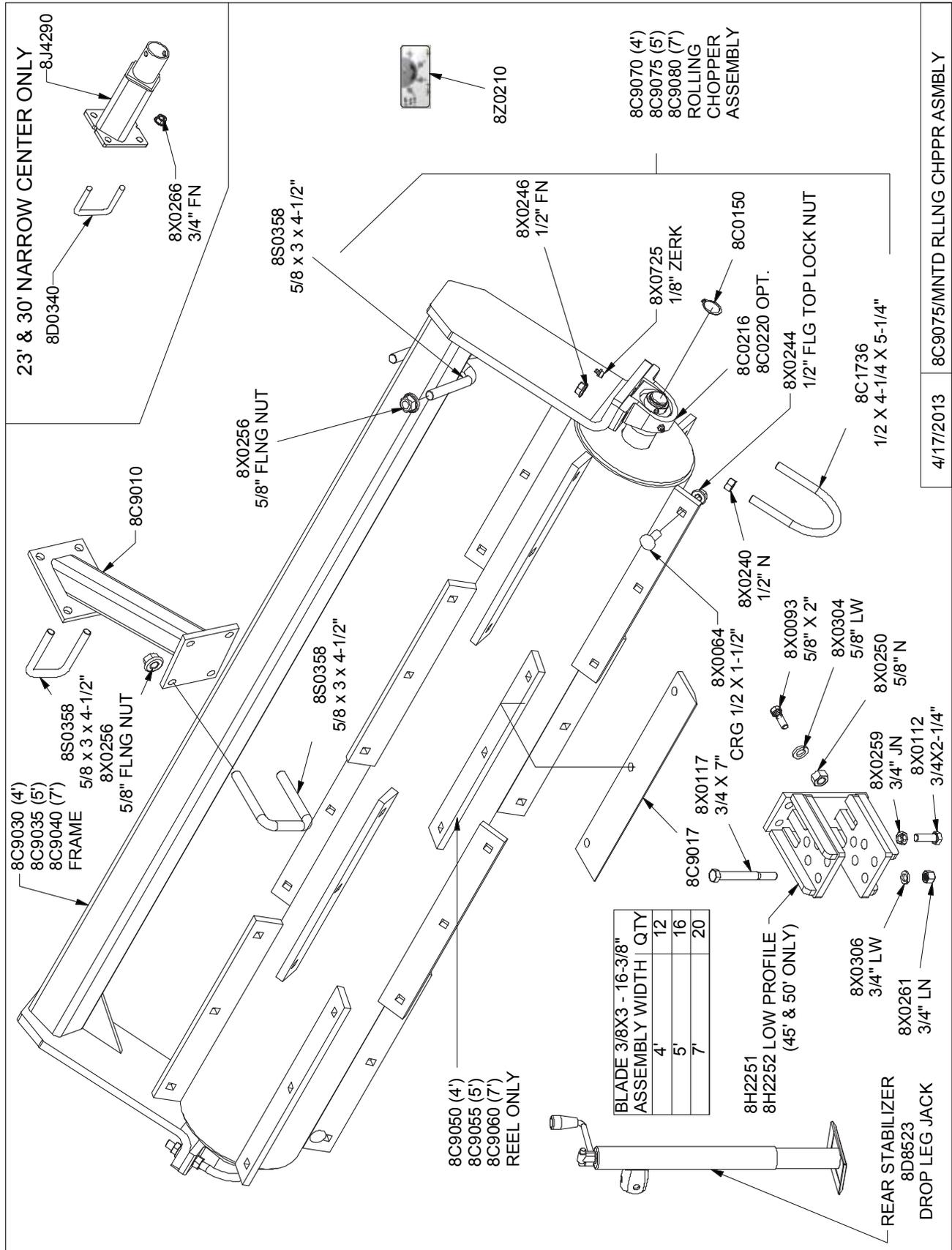


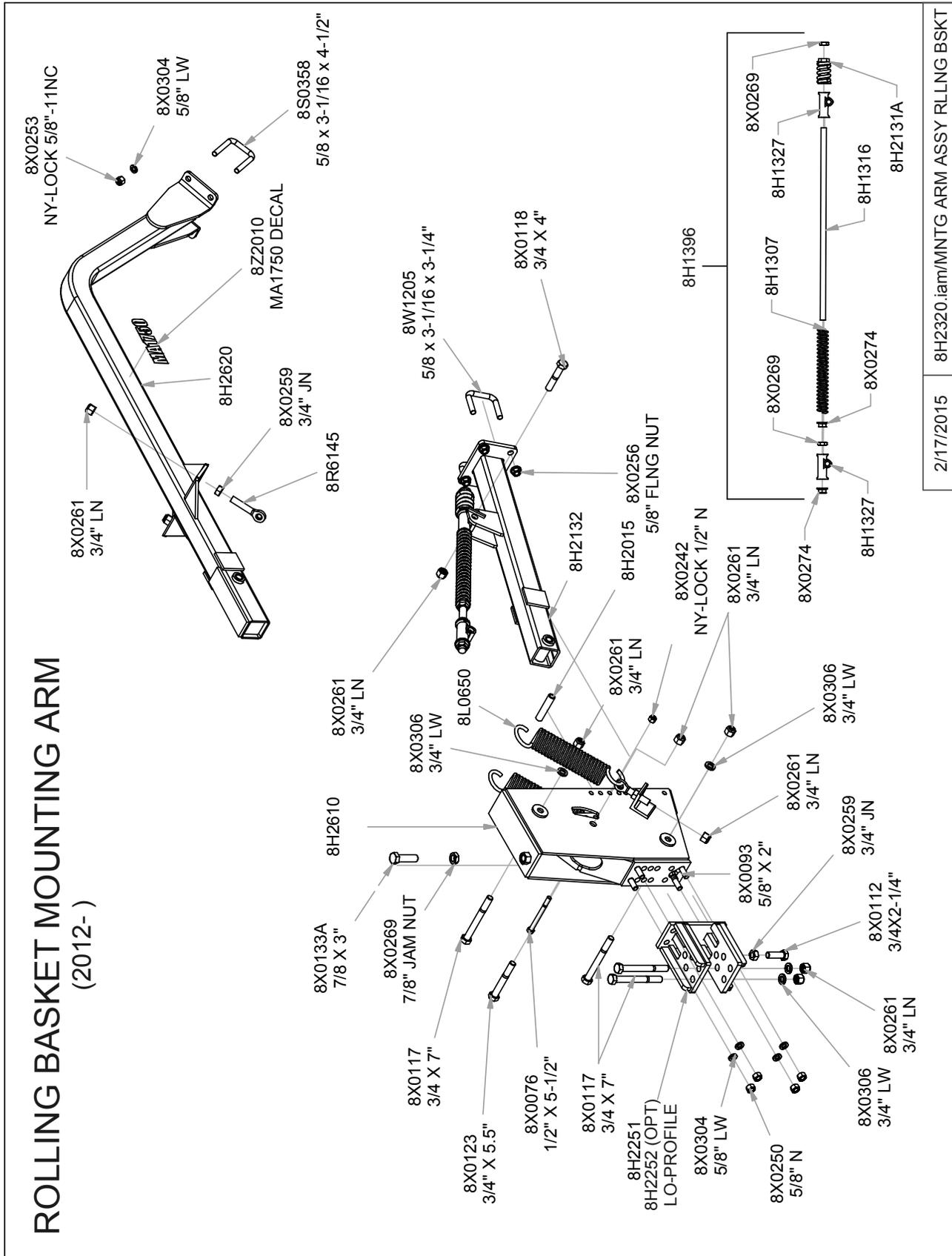
CD1\8HD\8HD5361_81_401 | 2/26/10

6' , 8' & 10' 4 BAR SECTION ASSEMBLY MODEL 104/105

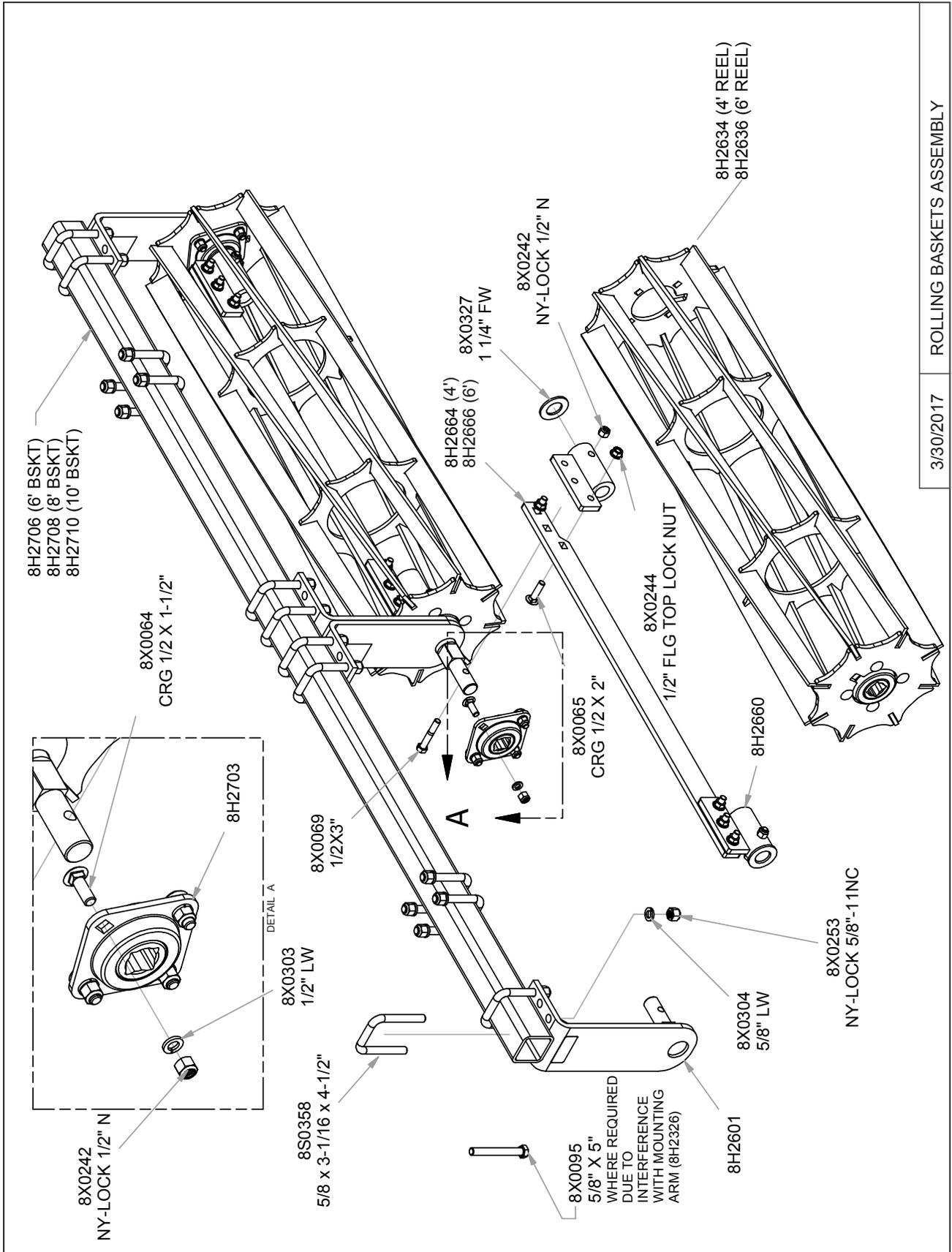


12/21/2011 8HD5365/4 BAR M104 & M105



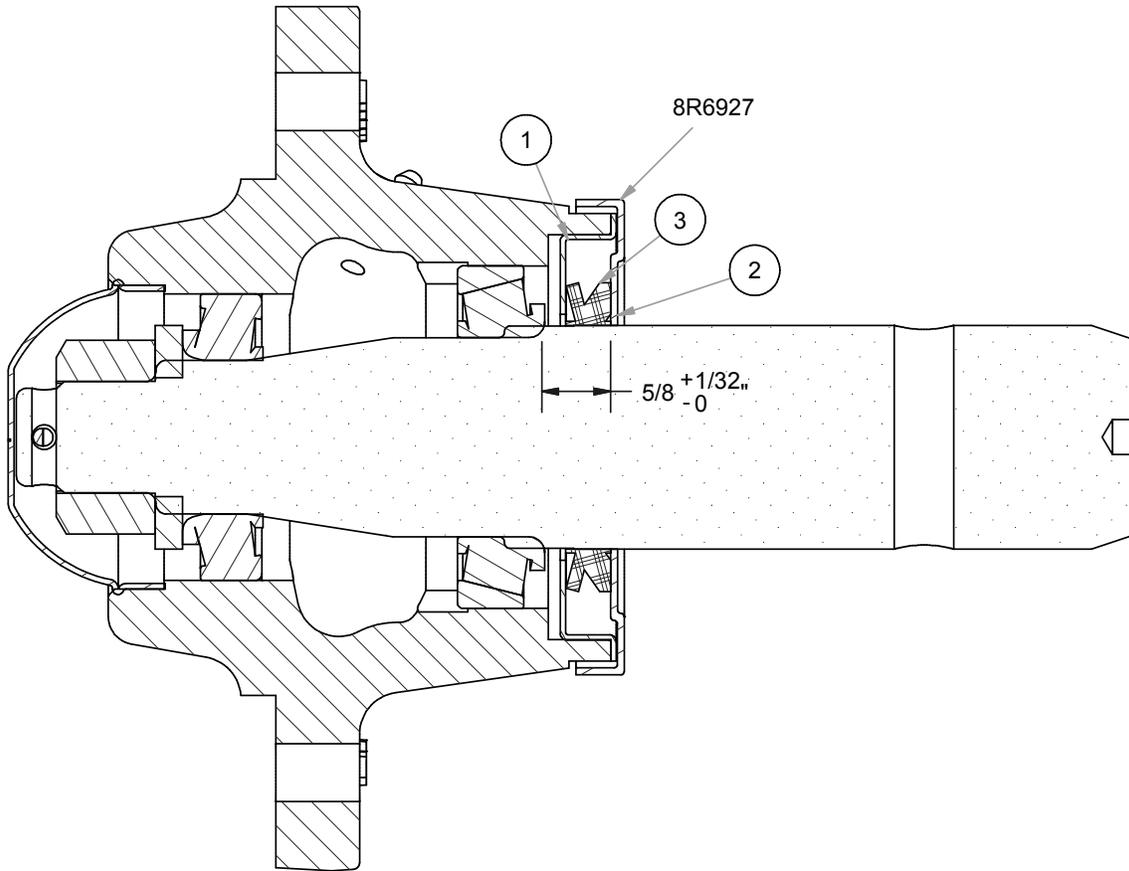


2/17/2015 8H2320.iam/MNTG ARM ASSY RLLNG BSKT



3/30/2017 ROLLING BASKETS ASSEMBLY

614 HUB W/GBGI SEAL



INSTALLATION INSTRUCTIONS FOR 8R6922 SEAL ASSEMBLY (3 PIECE-GBGI) FOR H614 HUB:

SEAL SUPPORT (2 - 8R6927)

PRESS SEAL SUPPORT (2) ONTO SPINDLE 5/8" (+1/32", -0") PAST INNER BEARING RETAINING SHOULDER.

- A. IF SEAL SUPPORT IS NOT PRESSED ON SPINDLE FAR ENOUGH THE SEAL SUPPORT WILL RUB ON HUB.
- B. IF SEAL SUPPORT IS PRESSED TOO FAR ONTO SPINDLE IT WILL CAUSE IMPROPER CONTACT BETWEEN RUBBER SEAL (3) AND INNER SEAL SUPPORT (1) RESULTING IN BEARING CONTAMINATION AND FAILURE.

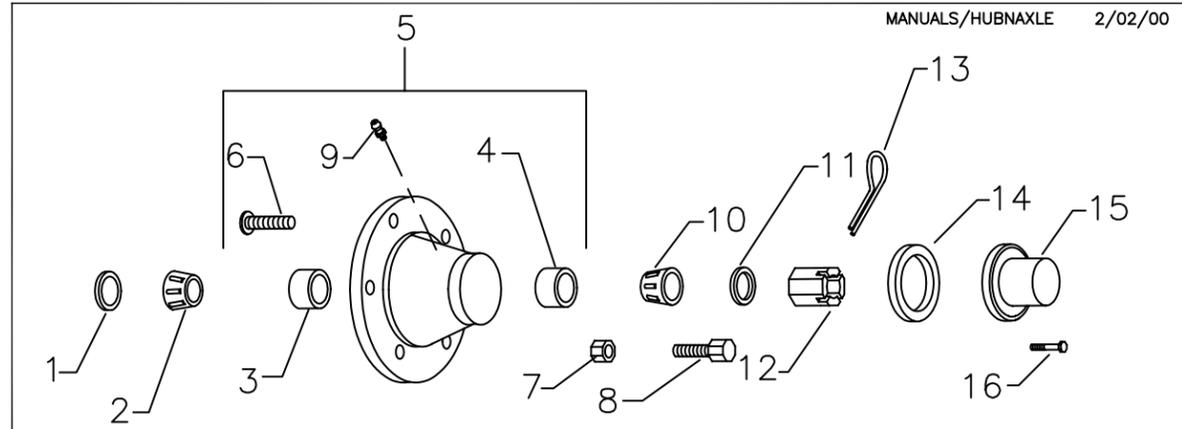
NOTE: APPLY THIN LAYER OF GREASE TO COUNTERFACE (1) SURFACE AT TIME OF SEAL INSTALLATION.

SEAL COUNTERFACE (1 - 8R6924)

PRESS SEAL COUNTERFACE INTO HUB UNTIL SHOULDER CONTACTS HUB.

V-SEAL (3 - 8R6923 (A-994))

STRETCH V-SEAL OVER SEAL SUPPORT UNTIL ITS BACK IS SEATED AGAINST THE BACK SHOULDER OF SEAL SUPPORT AND LIES SMOOTH ALL AROUND.



HUB AND AXLE COMPONENTS

Assembly Notes:

A. Before towing machine, pack wheel bearings and fill 1/2 of hub cavity with high quality bearing grease.

B. Tighten axle nut to 45 ft.-lbs, loosen nut until first slot is aligned with hole in axle, install cotter pin and bend to retain.

Legend:

SMC	Part Number
INDUSTRY	Part Number or Size

HUB	1. SEAL	2. INNER BEARING	3. INNER RACE	4. OUTER RACE	5. HUB ASSY	6. WHEEL STUD	7. WHEEL NUT	8. WHEEL BOLT	9. HUB ZERK	10. OUTER BEARING	11. AXLE WASHER	12. AXLE NUT	13. COTTER PIN	14. HUB CAP GASKET	15. HUB CAP	16. HUB CAP BOLT	
H211	8G8220	8G8217	8G8230	8G8230	8G8211	N/A	N/A	8D5114	8X0708	8G8217	8D5119	8D5112	8X0410	N/A	8G8213	N/A	
	SE10	L44643	8L44610	L44610	HDA211			WB10	1/4-28NF	L44643	3/4" I.D.	3/4"-16	3/16X1"		DC11		
H517	8D5234 8D5236 8D5238	8D5217	8D5332	8D5336	8D5210	8D5215	8D5214	N/A	8X0708	8D5117	8D5219	8D5212	8X0415	N/A	8D5213	N/A	
		LM48548	LM48510	LM67010	H517	WB16	1/2-20UNF		1/4-28NF	LM67048	7/8" I.D.	7/8"-14	3/16X1-1/2"		DC13		
H611	8D5221	8D5317	8D5334	8D5336	8D5311 -09 8D5316 10-	N/A	N/A	8D5114 WB10 -09	8X0708	8D5117	8D5319	8D5312	8X0415	N/A	8D5213	N/A	
	SE13	LM29749	LM29710	LM67010	H611			8R6914 WB12 10-	1/4-28NF	LM67048	1" I.D.	1"-14	3/16X1-1/2"		DC13		
H614	8R6922**	8R6917	8R6925	8D5332	8R6911	N/A	N/A	8R6914	8X0708	8D5217	8D5319	8D5312	8X0415	N/A	8R6913	N/A	
	SEE GBGI INSTRUCTIONS	LM603049	LM603011	LM48510	H614			WB12	1/4-28NF	LM48548	1" I.D.	1"-14	3/16X1-1/2"		DC15		
HD812	8K7127*** SEAL SE77	8K7117	8K7130	8K7132	8K7111	8K7115-9/16**	8K7116-9/16**	N/A	8X0708	8K7118	8D5319	8D5312	8X0415	N/A	8K7113	N/A	
	8K7128*** SLEEVE SE77 1	LM3780	LM3720	LM2720	HD812	8K7122-5/8"	8K7123-5/8"		WB41	WB40	1/4-28NF	LM2790	1" I.D.		1"-14	3/16X1-1/2"	DC17
						WB46	WB118										
HD817	8K7344	8K7342	8K7346	8K7347	8K7340	8K7122-5/8"	8K7123-5/8"	N/A	8X0708	8K7343	8X0328	8D5314	8X0414	N/A	8K7341	N/A	
	SE42	LM387AS	382A	LM501310	HD817	WB46	WB118		1/4-28NF	LM501349	1.312 I.D.	1-1/4"-12	1/4X2"		DC26		
H1010 LT	8K7220	8K7217	8K7230	8K7232	8K7211	8K7215	8K7216	N/A	8X0708	8K7218	8X0328	8D5314	8X0414	8K7212	8K7213	8K7214	
	SE48	39585	39520	453A	H1010-9	WB51	WB52		1/4-28NF	460	1.312 I.D.	1-1/4"-12	1/4X2"	SE49	DC27	WB53	
H1010 HVY	8K7221	8K7219	8K7231	8K7232	8K7210	8K7215	8K7216	N/A	8X0708	8K7218	8X0328	8D5314	8X0414	8K7212	8K7213	8K7214	
	SE67	33275	33462	453A	H1010-11	WB51	WB52		1/4-28NF	460	1.312 I.D.	1-1/4"-12	1/4X2"	SE49	DC27	WB53	
H1020	8K7320	8K7317	8K7330	8K7332	8K7209	8K7215	8K7216	N/A	8X0708	8K7318	8X0366	8D5318	8X0418	8K7312	8K7313	8K7214	
	SE55	HM218248	HM218210	HM212010	HDA1020	WB51	WB52		1/4-28NF	HM212049	2.03" ID	2" - 12WB65	5/16 X 2-1/2"	SE59	DC28	WB53	

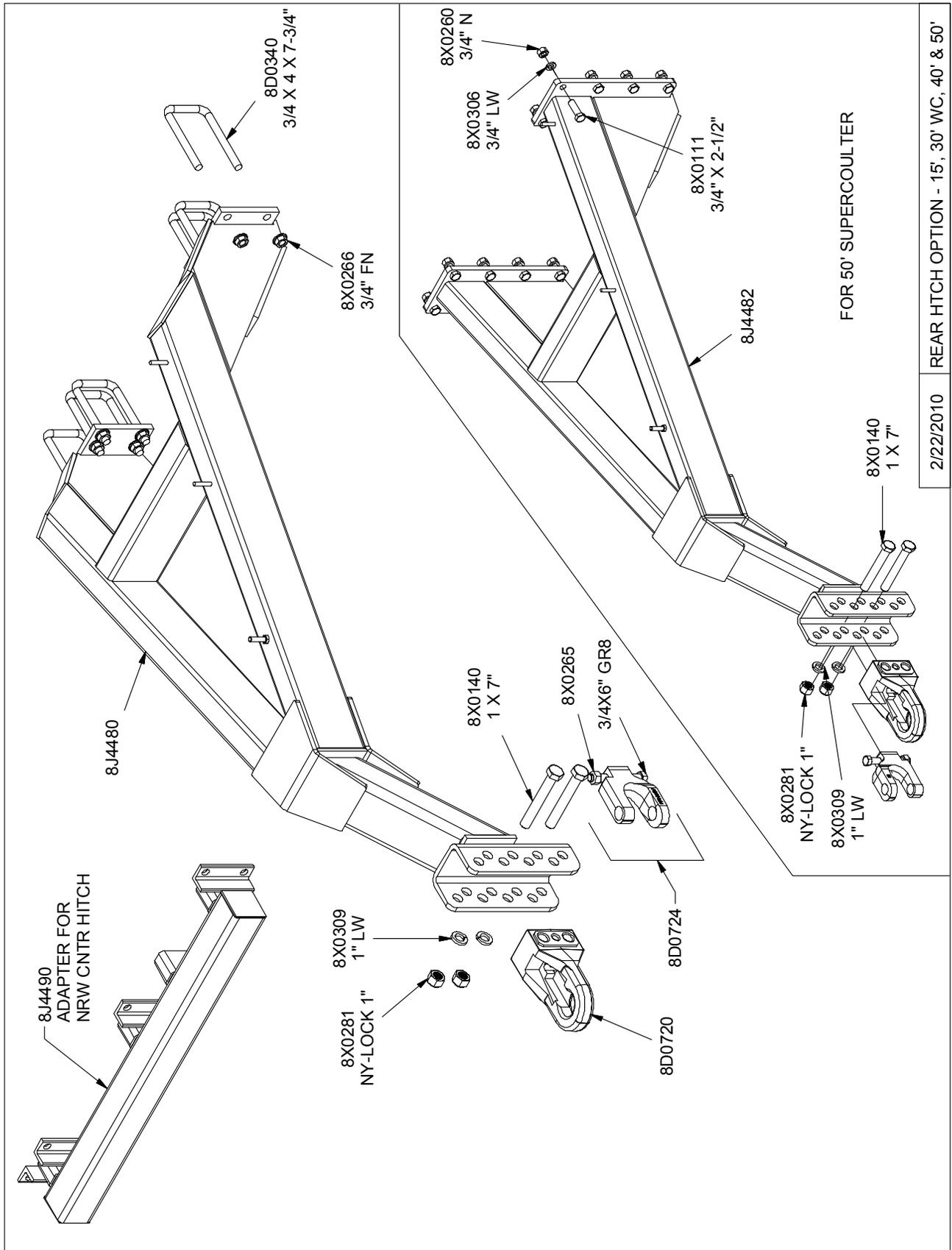
* Pre 2000

** GBGI (Not Shown), 8R6921 Triple Lip (Shown)

*** Pre 2006 8K7120 (SE17)

CD2\MANUALS\10 2-26 HUB-AXLE COMPONENTS

LAST REVISION: 1/17/2011



INSTALLATION AND OPERATION INSTRUCTIONS FOR 8K1850

HUBODOMETER W/ HOUSING FOR SUMMERS DIAMOND DISK AND SUPERCOUNTER

Attach HUB ODOMETER to gang nut as shown in photos with 3/8" x 4-1/2" bolt, flat washers and lock nut. To prevent loosening, rotate gang to insure that bracket is on center and spot weld at locations shown.

Position Hubodometer on inside of rear center gang. DO NOT LOCATE HUBODOMETER BENEATH IMPLEMENT WING HINGE OR AT WIDEST POINT OF MACHINE. Hub Odometer will be damaged if installed in these locations.

The Hub Odometer is calibrated at 359 revolutions per acre. Refer to chart below for conversion for your implement.



MACHINE	CONVERSION FACTOR
Diamond Disk Width	Multiply by ___ for Acres Covered
18 1/2'	1.04
21 1/2'	1.22
24 1/2'	1.37
28'	1.58
32 1/2'	1.82
38 1/2'	2.16
44 1/2'	2.49
47'	2.63
SuperCoulter Width	
11'	.53
15	.72
20'	1.0
23'	1.1
30'	1.4
35'	1.6
40'	1.9
45'	2.1
50'	2.3

CDI/8K/8K1850

Stock code	Description	Stock code	Description
8A1155	U-BOLT 3/8 X 6-1/16 X 5" SQ	8D5319	WASHER 1" AXLE X .2" THICKNESS
8A1156	U-BOLT 3/8 X 4-1/16 X 5" SQ	8D5320	WASHER 2" AXLE X .25" THICKNES
8A1157	U-BOLT 3/8 X 4-1/16 X 7" SQ	8D8490	PIONEER/ISO TIP HLDR BNT 97-
8A4048	NYLON TIE .18 X 11"	8D8500	HYD HOSE HOLDER PNTD BLK 91-
8A4050	NYLON TIE .30 X 8-7/8"	8D8521	JACK SPOOL 3 X 2.56- 1-29/32"
8A4052	NYLON TIE .30 X 15.25"	8D8521U	JACK SPOOL 3 X 2.56- 2-1/2"00-
8A4054	NYLON TIE .30 X 24" BLK	8D8522	JACK 5000# TOP CRANK 15"LIFT
8C0150	SNAP RING .05" FOR 1-3/16"DIA	8D8523	JACK 8000# DROPLEG 5/8X4.25PIN
8C0216	BEARING PLWBLCK 1-3/16" HD 11-	8D9108	ROLL PIN 1/4 X 2" ZINC
8C0220	BEARING PLWBLCK1-3/16"SEALMSTR	8D9110	HAIRPIN CLIP LARGE (1"CYL PIN)
8C0270	SPLITSTEELBUSH 1.375X 1"ID- 1"	8D9466	HYD CYL 4.5 X 16" 3500PSI 99-
8C0650	MANIFOLD BLOCK ALUMINUM 5PORT	8D9468	SEAL KIT 4.5 X 16"3000&3500PSI
8C1700	U-BOLT 3/8 X 2 X 4-7/8" SQ	8G2281	NYLON TIE .187 X 7-1/2" BROWN
8C1710	U-BOLT 3/8 X 8 X 9" SQ	8G2282	NYLON TIE .187 X 7-1/2" RED
8C1718	U-BOLT 1/2 X 2-5/8 X 2-5/8" SQ	8G2283	NYLON TIE .187 X 7-1/2" ORANGE
8C1720	U-BOLT 1/2 X 2-5/8 X 3-3/4" SQ	8G2284	NYLON TIE .187 X 7-1/2" YELLOW
8C1736	U-BOLT 1/2 X 4-1/4 X 5-1/4"RND	8G2285	NYLON TIE .187 X 7-1/2" GREEN
8C1740	U-BOLT 1/2 X 4-1/4 X 7-1/4"RND	8G2286	NYLON TIE .187 X 7-1/2" BLUE
8C1751	U-BOLT 3/4 X 3 X 6" SQ	8G8010	U-BOLT 3/8 X 1-5/16 X 2-1/4"SQ
8C1755	U-BOLT 3/4 X 6 X 6" SQ	8G8020	U-BOLT 3/8 X 2-9/16 X 3-1/2"SQ
8C1760	U-BOLT 3/4 X 8 X 6" SQ	8H0350	U-BOLT 1/2 X 2 X 3" RND
8C1780	U-BOLT 7/8 X 8 X 10" SQ	8H1150	HARROW TOOTH 3/8 X18.5" M94
8C1900	CLAMP 1/2" WIRE ROPE	8H1150S	HARROW TOOTH 3/8 X18.5"M94 STR
8C6010	WASHER 1.03"ID X 3-1/16"ODX1/4	8H1180S	HARROW TOOTH 1/2 X 20" M104/SH
8C6015	WASHER 1.53"ID X 3-1/16"ODX1/4	8H1184S	HARROW TOOTH 1/2X 26"M105/SH26
8C9010	BRACE MNTNG ARM RLNGATCH 09-	8H1190S	HARROW TOOTH 9/16X 26"M106/SH+
8C9017	BLADE 3/8X3- 16-3/8" PNTD 06-	8H1280	SPRING EXTENSION 1"OD X 4" YZ
8C9030	FRAME 3"SQ 4' 2" ROLNGCHPR 06-	8H1304	SPRING HVY 1.19"ID- 2.88" PNTD
8C9035	FRAME 3"SQ 5' 3" ROLNGCHPR 06-	8H1307	SPRING PRESS 1.63OD- 15" 91#"
8C9040	FRAME 3"SQ 7' ROLLNGCHPPR 07-	8H1309	SPRING COMP 15.5"X1.65"OD PNTD
8C9050	REEL ONLY 4' 2" ROLNG CHPR 06-	8H1315	SUPPORT ROD WLDD ASSY 7/8 09-
8C9055	REEL ONLY 5' 3" ROLNG CHPR 06-	8H1327	CAST SWIVEL 3/4X7/8 MNTD ATTCH
8C9060	REEL ONLY 7' ROLLING CHPPR 07-	8H1328	CAST SWVL 8H1327 PNTD 10-
8D0330	U-BOLT 5/8 X 6-1/16 X 5-5/8"SQ	8H1330	SIDE PLATE 3BR M74-94 LEFT79-
8D0340	U-BOLT 3/4 X 4 X 7-3/4" SQ	8H1331	SIDE PLATE 3BAR RGHT M94 02-
8D0350	U-BOLT 3/4 X 4 X 10" SQ	8H1332	SIDE PLATE 4BR M74-94 LEFT85-
8D0720	HITCH PIECE CAST CAT.3CTD PNTD	8H1333	SIDE PLATE 4BR RGHT M94 02-
8D0722	PERFECT HTCH BACKSTOP W/HDWE	8H1380	CONN BAR 5/16X1.5-25.5"4BR 82-
8D0724	CLEVIS OPT.HITCH CAT.3CTD99-	8H1384	ADJ BAR 5/16X 1.5- 16" M94 02-
8D0730	URETHANE CUSHION PERFCTHTCH	8H1394	SUPPORT ROD ASSY 7/8" MNTD 09-
8D0745B	HITCH PC WELDED W/BSHG CAT.5	8H1396	ROD ASSY 7/8" DBL SWVL 10-
8D1660	PIN 1-3/4 X 12-1/4" HARDND 99-	8H2015	PIPE SPACER 1/2 X 3-7/8" 10-
8D2460	SAFETY CHAIN 20200# 3/8" X 4'	8H2040	1ST PIPE W/LVR 4.5'3OR4BAR M94
8D2470	SAFETY CHAIN 30400# 7/16" X 5'	8H2042	2ND PIPE W/LVR 4.5'3OR4BAR M94
8D3035	WHEEL 15 X 8" 6 BOLT-VLV GRD	8H2045	3RDPIPE W/L3BR4.5'M94QADJ02-
8D3150	U-BOLT 1/2 X 3 X 7-1/4" SQ	8H2060	1ST PIPE W/LVR 6' 3OR4BAR M94
8D3152	U-BOLT 1/2 X 3-3/8 X 7-1/4" SQ	8H2062	2ND PIPE W/LVR 6' 3OR4BAR M94
8D3212	MALE TIP 3/4"-16 ORB ISO	8H2065	3RDPIPE W/L3BR 6' M94QADJ02-
8D5217	BEARING IN 517 OUT 517HD & 614	8H2076	3RD PIPE W/LEVR 4.5' 4BAR M94
8D5312	NUT 1"-14TPI HEX SLOT GR2 PLN	8H2079	4THPIPE W/L4BR4.5'M94QADJ02-
8D5314	NUT 1-1/4"-12 HEX SLOT GR2 PLN	8H2086	3RD PIPE W/LEVER 6' 4BR M94
8D5316	HUB H611 W/CUPS&ZRK 6(9/16)BLT	8H2089	4THPIPE W/L4BR 6' M94QADJ02-

<u>Stock code</u>	<u>Description</u>	<u>Stock code</u>	<u>Description</u>
8H2094	1ST PIPE W/LVR 7.5'3OR4BAR M94	8HD5096	EXT TUBE1.5SQ11GA-23.75" 01-
8H2096	2ND PIPE W/LVR 7.5'3OR4BAR M94	8HD5101	SIDE PLT 1/4"3BR 104/6 LEFT00-
8H2099	3RDPPIPE W/L3BR7.5'M94QADJ02-	8HD5102	SIDE PLT 1/4"3BR 104/6 RGHT00-
8H2100	STL 5/8 X 4- 8-3/8" PNTD 88-	8HD5105	SIDE PLT5/16"4BR 104/6 LEFT00-
8H2104	CHANNEL 3 X4.1#- 5.94" SQ 09-	8HD5106	SIDE PLT5/16"4BR 104/6 RGHT00-
8H2107	3RD PIPE W/LEVR 7.5' 4BAR M94	8HD5115	CONNCTNG BAR (3/8X2-17.5) 00-
8H2114	4THPIPE W/L4BR7.5'M94QADJ02-	8HD5120	CONNCTNG BAR (3/8X2X30.5) 93-
8H2120	MOUNTING BRCKT M94-M108 85-	8HD5140	CROSS TUBE W/FLATS 6' M104/106
8H2131A	SPRING W/7/8-9NC NUT 12-	8HD5150	CROSS TUBE W/FLATS 8' M104/106
8H2132	CARRIER ARM 34" M94-M108	8HD5160	CROSS TUBE W/FLATS 10' M104/06
8H2142	CARRIER ARM 42" M94-M108	8HD5180	EXT BRCKT M94-108 2ND ARM 15"
8H2144	CARRIER ARM 52" M94-M108	8HD5188	EXT BRCKT ONLYRGHT M94 2ND ARM
8H2150	CROSS TUBE W/FLAT 4.5' M94	8J0190	SCRAPER FLAT SUPRCOULTR 00-
8H2160	CROSS TUBE W/FLAT 6' M94	8J0200	MNT FLAT SCRAPER SPRCLTR 00-
8H2170	CROSS TUBE W/FLAT 7.5' M94	8J0910	STL 1-1/8 X 10"C-C LNK BLK 09-
8H2184	AUTOLCKUP 7/8" DRLD&PNTD 09-	8J0920	LINK PT 1 TO 2 (1 STFNR) 09-
8H2190	HANDLE W/PIN AUTOLCKUP 94-108	8J1020	CLTR BLADE 8X1.75WAVE .256X20"
8H2295	MNTNG HEAD SPACER BLOCK 12-	8J1020N	CLTR BLADE 8X1.75W NOTCH.26X20
8H2315	EXTENSION MNT ARM 6" M94-M108	8J1021N	CLTR BLADE 8X1.75W NOTCH.26X22
8H2601	ENDPLATE RLNGBSKT 4SCRPR 12-	8J1021ND	CLTR BLADE 8W NTCH DURA.26X22"
8H2610	MNTG BRKT HRRW/BSKT 10-	8J1022H	CLTR BLADE 13WAVE .256X22" 04-
8H2618	MNTG ARM RLLNG BSKT QUICK10-	8J1023H	CLTR BLADE FLAT .256X22" 04-
8H2634	RLLNG BSKT 4' REEL ONLY 10-	8J1027H	CLTR BLADE5/8"TURBO.256X22"05-
8H2636	RLLNG BSKT 6' REEL ONLY 10-	8J3002	SPOOL 2" SPACR WELDED CLTR 06-
8H2660	RLLING BSKT SCRAPER MNT 12-	8J3010	CAST SPOOL 10" FULL CLTR 00-
8H2664	4' BSKT SCRAPER (40.5") 12-	8J3012	SPOOL12"FULLWLDD CLTRCHSL06-
8H2666	6' BSKT SCRAPER (63.5") 12-	8J3246	SCRAPER MNT TUBE-46"SCLTR03-
8H2702	BEARING 1-1/4" SQ FLNG4BLT	8J3256	SCRAPER MNT TUBE-56"SCLTR00-
8H2706	TUBE SQ 3 X 4T- 70" BSKT MNT	8J3266	SCRAPER MNT TUBE-66"SCLTR00-
8H2708	TUBE SQ 3 X 4T- 94" BSKT MNT	8J3276	SCRAPER MNT TUBE-76"SCLTR00-
8H2710	TUBE SQ 3 X 4T- 118" BSKT MNT	8J3286	SCRAPER MNT TUBE-86"SCLTR04-
8HD0080	PIPE CLAMP 2-1/2" ID PLATED YZ	8J4000	HITCH SUPRCLTR (11'-45') 00-
8HD0150	PIN ADJSTMNT 5/8X9.75" YZ 95-	8J4003	HITCH PLUS 3 SUPRCLTR(50')10-
8HD0152	PIN ADJSTMNT .68X9.75"SLVR06-	8J4015	CENTER FRAME NRW SPRCLTR 03-
8HD0160	SPRING TINE ADJ.COMP.ZINC95-	8J4020	CENTER FRAME WIDE SPRCLTR 00-
8HD0200	U-BOLT 1/2 X 2-3/8X 3-9/16"RND	8J4025	CENTER FRAME 45&50' SCLTR 09-
8HD5052	1ST PIPE W/LVR 6' 104/6 3OR4BR	8J4030	WING 30' WIDE CNTR SC LEFT00-
8HD5054	2ND PIPE W/LVR 6' 104/6 3OR4BR	8J4032	WING 30' WIDE CNTR SC RGHT00-
8HD5056Q	3RD PIPE/LVR6' 3BR104/6QADJ00-	8J4035	WING PT1 50' SPRCLTR 09-
8HD5057	3RD PIPEW/LVR 6' 104/6 4BR 98-	8J4037	WING PT1 45'SPRCLTR 10-
8HD5058Q	4TH PIP/LVR6' 4BR104/6 QADJ02-	8J4040	WING 40' SUPRCLTR LEFT 00-
8HD5072	1ST PIPE W/LVR 8' 104/6 3OR4BR	8J4042	WING 40' SUPRCLTR RGHT 00-
8HD5074	2ND PIPE W/LVR 8' 104/6 3OR4BR	8J4045	WING PT2 45'&50' SPRCLTR 09-
8HD5076Q	3RD PIP/LVR8' 3BR104/6 QADJ00-	8J4050	WING 35' SUPRCOULTR LEFT 10-
8HD5077	3RD PIPEW/LVR 8' 104/6 4BR 98-	8J4052	WING 35' SUPRCOULTR RGHT 10-
8HD5078Q	4TH PIP/LVR8' 4BR104/6 QADJ02-	8J4120	WING 20' NRRWCNTR SPRCLTR10-
8HD5082	1ST PIPE W/LVR10' 104/6 3OR4BR	8J4123	WING 23' NRRWCNTR SPRCLTR03-
8HD5084	2ND PIPE W/LVR10' 104/6 3OR4BR	8J4130	WING 30' NRRWCNTR SPRCLTR03-
8HD5086Q	3RDP/IP/LVR10' 3BR104/6 QADJ00-	8J4140	LIFTARM SUPRCLTR 2"ID BLK 00-
8HD5087	3RD PIPEW/LVR10' 104/6 4BR 98-	8J4145	LIFTARM SPRCLTR 2.5"ID GRN04-
8HD5088Q	4THPIP/LVR10' 4BR104/6 QADJ02-	8J4220	CYL ATTCH SPRCLTR 4 UBLT 00-
8HD5094	EXT PIPE2.375"ODX.148- 12" 01-	8J4223	CYL ATTCH SPRCLTR 6UBLT HD10-

<u>Stock code</u>	<u>Description</u>	<u>Stock code</u>	<u>Description</u>
8J4240	BRACE 30'NRRW CNTR WNGFLT03-	8J8905	EXTENSION WIDECNTR REARHH03-
8J4277	CRSSTUBE TRNSPRTLCK NRWCNTR09-	8J8920	PIVOT ASSY HTCH HYD HTCH 03-
8J4280	PT 2 WING REST SPRCLTR 09-	8J8940	PIVOT ASSY CNTR HYD HTCH 03-
8J4285	PT 1 WNG REST 45'&50'SC 09-	8K1100	HUB&AXLE ASSY 614(GBGI-2"RCVR)
8J4290	REAR JACK ATCHBRCKT N-CNT 07-	8K1105	HUB&AXLE ASSY HD812(2.5"RCVR)
8J4300	REAR LEG/JACK ATTCH BRCKT 01-	8K1105S	HUB&AXLE ASSY HD812 (2"RCVR)
8J4480	FRAME REAR HTCH SUPRCLTR 03-	8K1106	HUB&AXLE ASSY HD817 (2.5"RCVR)
8J4482	HD REAR HTCH SUPRCLTR(50')09-	8K1512	CAP 1/4 X 6- 6-1/2" FORMD 06-
8J4490	ADAPTER BRCKT RR HTCH NRRWCNTR	8K1610	PIN 3/4 X 6.25" TRNSPRTLCK 84-
8J4600	BOLT 1-1/4"-7NC WING STOP 09-	8K1660	PIN 1-1/2 X 15-1/2" HARDEND84-
8J5100	#6 JIC(M) X #6 JIC(M) UNION	8K1720	EYEBOLT 1.25DIAX1"EYE YZ 12-
8J5102	#6 ORB TO 3/8"FPT ADAPTR SWVL	8K1750	EYEBOLT 1.5"DIAX1"EYE YZ 12-
8J5110	#10 JIC(M) X #10 JIC(M) UNION	8K1755	EYEBOLT 1.5"DIAX1.26EYE YZ 12-
8J5150	3/8" MPT X #6 JIC(M) STR ADPTR	8K1790	HUBODOMETER VR-359
8J5152	#8 JIC(F) X #6 JIC(M) RDCR	8K1830	HOUSNG HUBODOMETR DSK/CLTR GNG
8J5170	1/2" MPT X #10 JIC(M)STR ADPTR	8K2000	BEARING 211 X 2.02" ID 01-
8J5200	#10 JIC(F) X #6 JIC(M)HEX BUSH	8K2020	RETAINING RING GANG BRNG 84-
8J5298	TEE #6 SWIVELNUTRUN(M+M+F-SW)	8K2050	GANG BRNG W/HOUSNG 211 X 2"+ID
8J5300	TEE #6 JIC (MALE) 3X	8K2080	CAST BEARNG MNT BASE DRILLD
8J5312	TEE #10JIC(M2X)X3/4-16ORBBRNCH	8K2090	CAST BEARNG PIVOT TUBE DRILLD
8J5500	9/16"-18 ORB X #6 JIC(M) STR	8K2102	GANG BRNG ASSYW/211BRNG&CSTNGS
8J5510	3/4"-16 ORB X #6 JIC(M) STR	8K2120	GANG ROD 2" DIA X 47"
8J5520	3/4"-16 ORB X #10 JIC(M) STR	8K2128	GANG ROD 2" DIA X 55" CLTR 07-
8J5540	7/8"-14 ORB X #10 JIC(M) STR	8K2130	GANG ROD 2" DIA X 57"
8J5550	1-1/16" - 12ORB#10JIC(M)STR	8K2140	GANG ROD 2" DIA X 67"
8J5600	9/16"-18 ORB X #6 JIC(F-SW)STR	8K2150	GANG ROD 2" DIA X 77"
8J5620	3/4"-16 ORB X #6 JIC(F-SW)STR	8K2152	GANG ROD 2" DIA X 79" CLTR 09-
8J5680	3/4"-16 ORB X 3/4"-16ORB UNION	8K2160	GANG ROD 2" DIA X 87"
8J5682	3/4"-16ORB(2X)ADJUSTABLE UNION	8K2165	GANG ROD 2" DIA X 91" CLTR 06-
8J5690	3/4-16X3/4-16 ORB M-SW90*UNION	8K2170	GANG ROD 2" DIA X 97"
8J5700	#6 JIC(F-SW) X #6 JIC(M)90*ADP	8K2190	GANG ROD 2" DIA X 117"
8J5710	#10 JIC(F-SW)X#10 JIC(M)90*ADP	8K3002	WRENCH GANG 3-1/8" HEX BLCK00-
8J5800	3/8"FPT X #6 JIC (F-SW) STR	8K4009	SPOOL HALF 2.63" FLAT CLTR 00-
8J5810	1/2"FPT X #10 JIC(F-SW) STR	8K4019	SPOOL HALF 4.8" FLAT CLTR 00-
8J6000	9/16"-18 ORB X #6 JIC(M)90*ADP	8K4130	HOUSING BRG TOGGLE MNT CAST
8J6002	9/16"-18ORB X #6 JIC(M)BRNCH T	8K4200	CLAMP GNGMNT W/PEG CAST PNTD
8J6004	9/16"-18ORB X #6 JIC(M)RUN TEE	8K4210	CLAMP GANG MNT CAST PNTD
8J6010	3/4"-16 ORB X #6 JIC(M)90*ADP	8K4300	CLAMP SCRAPER MNT CAST PNTD
8J6020	3/4"-16 ORB X #10 JIC(M)90*ADP	8K4400	SPRING SHANK GNG MNT 2.5"X1.25
8J6030	7/8"-14 ORB X #10 JIC(M)90*ADP	8K4420	CLAMP FLAT 1/2 X 2- 4-1/4" 84-
8J6060	3/4"-16ORB X #6JIC(F-SW)90*ADP	8K5200	WASHER GANG BOLT 2.03" ID
8J7000	BALL VALVE HYD 9/16"-18ORB(2X)	8K5210	WASHER GANG W/ 3/4" NC WELDNUT
8J7040	THERMAL RELIEF MANIFLD 4000PSI	8K5214	ROUND 3/4-10NCX 6" STLKFNGR84-
8J7116	3/4"-16 ORB(2X)1WAY 1/16"RESTR	8K5350	SPLITSTEELBUSH 2" X 1.5"ID- 2"
8J7216	#6JIC(M)X6JIC(F)1/16"RSTR GOLD	8K5400	SPLITSTEELBUSH 4 X 3.5ID- 1.5"
8J7232	#6JIC(M)X6JIC(F)1/32"RSTR SLVR	8K5505	U-BOLT 3/4 X 2-1/8 X 4-1/4" SQ
8J7250	RELIEF VLV 2250PSI 9/16"-18ORB	8K5515	U-BOLT 3/4 X 4 X 6" SQ
8J7260	DUAL OUTLET FEMALE HYD COUPLER	8K5520	U-BOLT 3/4 X 6-1/8 X 7-1/2" SQ
8J8860	BRACE CROSS HYD HTCH OPT03-	8K7016	WHEEL 15 X 8" 8 BOLT-VLV GRD
8J8870	BRACE DROP HYD HTCH OPT 03-	8K7020	WHEEL 15 X 10" 8 BOLT-VLV GRD
8J8890	BRACE NRRWCNTR RR HYDHTCH03-	8K7022	WHEEL 16 X 10" 8 BLT PRS ONLY
8J8900	BRACE WIDECNTR RR HYDHTCH03-	8K7026	TIRE 11L X 15" LRF TBL5 HWYSRV

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8K7028	TIRE 12.5L X 15" LRF TL HWYSRV	8K8430	HYD CYL 3 X 8" RPHS 1.5 ROD
8K7033	11L X 15 LRF ON 15X8X6 WHEEL	8K8435	HYD CYL 3.5 X 8" RPHS 1.75"ROD
8K7037	11L X 15 LRF ON 15X8X8 WHEEL	8K8440C	HYD CYL 4 X 8" RPHS 2"ROD
8K7042	12.5L X 15 LRF ON 15X10X8 WHL	8K8445C	HYD CYL 4.5 X 8" RPHS 2"ROD
8K7111	HUB HD812 W/CUPS&ZRK 8BLT3LIP	8K8452C	HYD CYL 5 X 8" RPHS 2.12"RD
8K7113	HUB CAP HD812 DC17	8K8455	HYD CYL 5.5 X 8" RPHS 2.25RD
8K7117	BEARING INNER HD812 LM3780	8K8460	HYD CYL 6 X 8" RPHS 2.38RD
8K7118	BEARING OUTER HD812 LM2790	8K8600	SEAL KIT 3 X 8" CTD 89-
8K7120	SEAL 2-1/2"ID HD812 SE17 -06	8K8610	SEAL KIT3.5X8"CTD1.75"ROD 90-
8K7122	STUD WHEEL 5/8-18UNFX2.5"97-	8K8620	SEAL KIT 4 X 4 & 8" CTD 89-
8K7123	NUT 5/8"-18UNF WHEEL BOLT 97-	8K8630	SEAL KIT 4.5 X 8" CTD 89-
8K7127	SEAL TRPL LIP EXTRNL HD812 06-	8K8642	SEAL KIT 5 X 8"CTD 2&2.125"ROD
8K7128	SEAL SLEEVE FOR 3X LIP 812 06-	8K8644	SEAL KIT 5.5 X 8"CTD 2.25" ROD
8K7130	RACE INNER HD812 LM3720	8K8646	SEAL KIT 6 X 8"CTD 2.38" ROD
8K7132	RACE OUTER HD812 LM2720	8K8650	SEAL KIT4X36"CTD(8K9640CYL)90-
8K7150	AXLE HD812 X 11.5 (2.5 DIA.)	8K8660	SEAL KIT 5 X 32 & 36" CTD 89-
8K7150S	AXLE HD812X 11.5 (2 DIA.RCVR)	8K9102	PIN 1 X 4" CYL-FOR1/4"ROLL PIN
8K7340	HUB HD817 W/CUPS&ZRK 8BLT3LIP	8K9106	PIN 1-1/4 X 4-3/8" HRDND 1/4HL
8K7341	HUB CAP HD817 DC26	8K9108	PIN 1-1/4 X 5-1/8" HRDND 3/8HL
8K7342	BEARING INNER HD817 LM387AS	8K9174	STROKE CNTRL 1/2" 2"ROD 96-
8K7343	BEARING OUTER HD817 LM501349	8K9176	STROKE CNTRL 3/4" 2"ROD 96-
8K7344	SEAL 3" ID HD817 SE42	8K9178	STROKE CNTRL 1" 2"ROD 96-
8K7346	RACE INNER HD817 382A	8K9180	STROKE CNTRL 1-1/4" 2"RD 96-
8K7347	RACE OUTER HD817 LM501310	8K9200	TRNS LCK FRMD 7.5"(2-3/8RD)10-
8K7349	AXLE HD817X15.25 (2.5DIA.RCVR)	8K9220	ANGLE 6X6X1/2- 6.25" WGT PKG
8K7405	WHEEL 19.5X8.25"8BOLT -1"OFFST	8K9230	SUITCASE WGT PNTD 1.25"- 67#
8K7425	WHEEL 18 X 11" 8BOLT -1.5OFFST	8K9640	HYD CYL 4 X 36" W/3" STOP TUBE
8K7430	340/65R18 ON 18X11X8 WHL-1.5OF	8K9650	HYD CYL 5 X 36" W/3" STOP TUBE
8K8000	STL 7K2045 3/8X3.5 PNTDLGHT09-	8L0252	WASHER 1.28"IDX4.5ODX 1/4" YZ
8K8005	TUBE LGHT BRKT SHRT 1.5SQ PNTD	8L0256	U-BOLT 1/4 X 1-1/2 X 2-1/2" SQ
8K8010	TUBE LGHT BRCKT 1.5SQ PNTD 00-	8L0258	U-BOLT 5/16 X 1-1/2 X 2-1/2"SQ
8K8020	STL 12GA MNTNG BRCKT LIGHT 00-	8L0260	U-BOLT 3/8 X 1-3/4 X 3" SQ
8K8030A	MODULE AG ENHNCDW/BRAKE6PIN08-	8L0262	U-BOLT 5/16 X 1 X 2" SQ
8K8060B	EXT HRNSS 12'6PIN DEUTSCH09-	8L0266	U-BOLT 1/2 X 3-1/2 X 5" SQ
8K8067	DUST CAP FOR 7PIN CONNECT00-	8L0268	U-BOLT 5/16 X 3 X 4" SQ
8K8070B	MAIN HRNSS 7PNLNG W/BRAKE 09-	8L0272	U-BOLT 5/16 X 3 X 7" SQ
8K8074	2ND IMPLEMENT JUMP HARNESS	8L2200	LEG 2SQ X 43.5" SCLTR&2PT 96-
8K8075A	EXT HRNSS NONDRAWBR DTSCH 07-	8N2110	1/4X 110"HYD HOSE #6FJX3000PSI
8K8080A	EXT HRNSS DRAWBAR DEUTSCH 07-	8N2120	1/4X 120"HYD HOSE #6FJX3000PSI
8K8088	LENS ONLY AMBER GROTE LGHT 00-	8N2135	1/4X 135"HYD HOSE #6FJX3000PSI
8K8090	LIGHT AMBER 2WIREWTHR PCK 00-	8N2160	1/4X 160"HYD HOSE #6FJX3000PSI
8K8090A	LIGHT AMBER 2WIRE DEUTSCH 07-	8N2190	1/4X 190"HYD HOSE #6FJX3000PSI
8K8090B	LIGHT LED AMBER 2WR DTSCH 12-	8N2210	1/4X 210"HYD HOSE #6FJX3000PSI
8K8092	LENS ONLY RED GROTE LIGHT 00-	8N2248	1/4X 248"HYD HOSE #6FJX3000PSI
8K8095	LIGHT RED 3 WIRE WEATHRPCK 05-	8N2250	1/4X 250"HYD HOSE #6FJX3000PSI
8K8095A	LIGHT RED 3WIRE DEUTSCH 07-	8N2360	1/4X 360"HYD HOSE #6FJX3000PSI
8K8095B	LIGHT LED RED 3WR DTSCH 12-	8N2400	1/4X 400"HYD HOSE #6FJX3000PSI
8K8105A	EXT HRNSS T 26'2WIRE DTSCH 07-	8N2410	1/4X 410"HYD HOSE #6FJX3000PSI
8K8200	BRCKT SMV ATTCH 4-8"FRAME98-	8N3018	3/8X 18"HYD HOSE #6FJX3000PSI
8K8202	BRCKT SMV ATTCH BNT45* LR 05-	8N3028	3/8X 28"HYD HOSE #6FJX3000PSI
8K8210	BRCKT W/SCKT SMV ATCH4-8"98-	8N3035	3/8X 35"HYD HOSE #6FJX3000PSI
8K8220	BRCKT LGHT.25X1.75-18.4" 04-	8N3048	3/8X 48"HYD HOSE #6FJX3000PSI

<u>Stock code</u>	<u>Description</u>	<u>Stock code</u>	<u>Description</u>
8N3060	3/8X 60"HYD HOSE #6FJX3000PSI	8R6915	BOLT WHEEL 9/16"-18 UNF- 1.75"
8N3070	3/8X 70"HYD HOSE #6FJX3000PSI	8R6917	BEARING INNER 614
8N3084	3/8X 84"HYD HOSE #6FJX3000PSI	8R6921	SEAL HD 2" ID (TRPL LIP) H614
8N3096	3/8X 96"HYD HOSE #6FJX3000PSI	8R6922	SEAL ASSY GBGI H614 HUB 00-
8N3124	3/8X 124"HYD HOSE #6FJX3000PSI	8R6923	SEAL ONLY GBGI H614 HUB 00-
8N3136	3/8X 136"HYD HOSE #6FJX3000PSI	8R6924	COUNTRFACE GBGI H614 HUB 00-
8N3150	3/8X 150"HYD HOSE #6FJX3000PSI	8R6925	RACE INNER H614 LM603011
8N3156	3/8X 156"HYD HOSE #6FJX3000PSI	8R6927	SEAL SUPPORT GBGI H614 AXLE
8N3160	3/8X 160"HYD HOSE #6FJX3000PSI	8S0295	U-BOLT 3/8 X 2-5/8 X 4-1/4"RND
8N3180	3/8X 180"HYD HOSE #6FJX3000PSI	8S0315	U-BOLT 3/8 X 3 X 4-1/8" RND
8N3204	3/8X 204"HYD HOSE #6FJX3000PSI	8S0317	U-BOLT 3/8 X 3.63 X 5.88" RND
8N3216	3/8X 216"HYD HOSE #6FJX3000PSI	8S0319	U-BOLT 3/8 X 3 X 4-1/8" SQ
8N3228	3/8X 228"HYD HOSE #6FJX3000PSI	8S0330	U-BOLT 1/2 X 3 X 4-1/4" SQ
8N3252	3/8X 252"HYD HOSE #6FJX3000PSI	8S0340	U-BOLT 1/2 X 4 X 5-1/4" SQ
8N3276	3/8X 276"HYD HOSE #6FJX3000PSI	8S0345	U-BOLT 1/2 X 5 X 6-1/4" SQ
8N3288	3/8X 288"HYD HOSE #6FJX3000PSI	8S0358	U-BOLT 5/8 X 3 X 4-1/2" SQ
8N3312	3/8X 312"HYD HOSE #6FJX3000PSI	8S0360	U-BOLT 5/8 X 6 X 4-1/2" SQ
8N3330	3/8X 330"HYD HOSE #6FJX3000PSI	8S0660	SPRING 1.42"ODX 7.81"EXT PNTD
8N3348	3/8X 348"HYD HOSE #6FJX3000PSI	8S0684	SPRING SHOCK ABSORBER SSV96-01
8N3360	3/8X 360"HYD HOSE #6FJX3000PSI	8S0820	SIDE RAILING BOTTOM PEG 03-11
8N3390	3/8X 390"HYD HOSE #6FJX3000PSI	8S1000	SHOCK ABSORBER 91-01
8N3408	3/8X 408"HYD HOSE #6FJX3000PSI	8S1001	SHOCK ABSORBER ULTIM 99-
8N3432	3/8X 432"HYD HOSE #6FJX3000PSI	8S1002	ADJUSTING CAM 91-01
8N3462	3/8X 462"HYD HOSE #6FJX3000PSI	8S1004	UPPER SPRING RETAINER 91-01
8N3534	3/8X 534"HYD HOSE #6FJX3000PSI	8S1020	SHOCK/.406DIA SPRING ASSY96-01
8N3570	3/8X 570"HYD HOSE #6FJX3000PSI	8S1060	STEEL PULLEY 2" DIA 1/2"ID 91-
8N3606	3/8X 606"HYD HOSE #6FJX3000PSI	8S1076	QUICKLINK 1/4" YELLOW ZINC
8N4016	1/2X 16"HYD HOSE#10FJX3000PSI	8S1082	CABLE CLAMP 3/16" MALLEABLE YZ
8N4060	1/2X 60"HYD HOSE#10FJX3000PSI	8S1100	CHAIN #3 X 4 LINK (6") 91-
8N4114	1/2X 114"HYD HOSE#10FJX3000PSI	8S1120	SIGN SLOW MOVING VEHICLE(SMV)
8N4120	1/2X 120"HYD HOSE#10FJX3000PSI	8S1124	MOUNTING SOCKET SMV SIGN
8N4138	1/2X 138"HYD HOSE#10FJX3000PSI	8S1126	MNT SPADE W/HRDWR SMV SIGN
8N4160	1/2X 160"HYD HOSE#10FJX3000PSI	8S2990	HYD HOSE CLAMP-LARGE-NYLON
8N4198	1/2X 198"HYD HOSE#10FJX3000PSI	8T0606	WRENCH 2.25" OPEN 1.5" BOX 98-
8N4216	1/2X 216"HYD HOSE#10FJX3000PSI	8T0608	WRENCH 1.5" OPEN 2.25" BOX 98-
8N4228	1/2X 228"HYD HOSE#10FJX3000PSI	8T2986	CLAMP 1/2"(-8)WRNG RUBBERBACK
8N4546	1/2X 546"HYD HOSE#10FJX3000PSI	8T2988	CLAMP 3/8"(-6)WRNG RUBBERBACK
8N4624	1/2X 624"HYD HOSE#10FJX3000PSI	8T2990	HYD HOSE CLAMP MTL/RUB BACK
8N6060	3/4X 60"HYD HOSE#10FJX3000PSI	8T3300	BOLT PIVOT CHSLTRP&WNLGFT YZ
8N6354	3/4X 354"HYD HOSE#10FJX3000PSI	8T3620	PIN 1-1/2 X 12-1/2" HRDND&ZINC
8N6570	3/4X 570"HYD HOSE#10FJX3000PSI	8T3625	PIN 1-1/2 X 12" W/WLD WSHR 00-
8N6588	3/4X 588"HYD HOSE#10FJX3000PSI	8T3640	PIN 1-1/2 X 19" HARDEND 98-
8N7000	ADJ DOWN PRESSURE MANIFLD 12-	8T3800	WASHR7OD W/1.75OD BUSHX1.27"ID
8R6805	SPLITSTEELBUSH 1" X .75"ID- 1"	8T4100	CAST PIVOT W/BLTPLATE PTD 96-
8R6808	SPLITSTEELBUSH 1.25X 1"ID-.75"	8T4380	HOLDER CYL LOCK 4"&6" MNT 96-
8R6810	SPLITSTEELBUSH 1.62X1.25"ID-1"	8T4385	HOLDER MANUAL-PAK 3/4/6MNT09-
8R6815	SPLITSTEELBUSH 1.50X1.25"ID-1"	8T4390	HOLDER STROKE CNTRL 4&6"MNT08-
8R6820	SPLITSTEELBUSH 2.5X2.00"ID-2"	8T5345	SPLITSTEELBUSH 2 X1.5"ID- 1.5"
8R6901	AXLE H614 STR 2"CR X 10"	8W1897	NYLATRON 1"ODX .76"ID- 1-3/4"
8R6911	HUB H614 W/CUPS&ZRK 6 BLT GBGI	8X0000	BOLT 1/4-20X3/4" FLLTHD GR5 YZ
8R6913	HUB CAP H614 & H618	8X0000B	BOLT 1/4-20NC X 1" GR5 YZ
8R6914	BOLT WHEEL 9/16"-18 UNF- 1.25"	8X0001	BOLT 3/8-16NC X 3/4" GR5 YZ

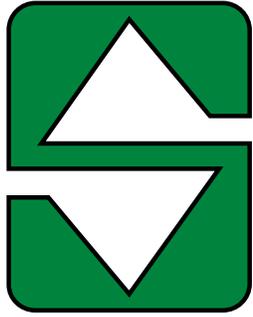
<u>Stock code</u>	<u>Description</u>	<u>Stock code</u>	<u>Description</u>
8X0002	BOLT 3/8-16NC X 1" GR5 YZ	8X0077	BOLT 1/2-13NC X 7-1/2" GR5 YZ
8X0003	BOLT 1/4-20NC X 4-1/2" GR5 YZ	8X0078	BOLT 1/2-13X3.62" SHLDR GR2 YZ
8X0004	BOLT 3/8-16NC X 1-1/4" GR5 YZ	8X0080	BOLT 1/2-13NC X 11" GR5 YZ
8X0005	BOLT 1/4-20NC X 3-3/4" GR5 YZ	8X0082	BOLT 1/2-13NC X 6-1/2" GR5 YZ
8X0006	BOLT 3/8-16NC X 2-1/2" GR5 YZ	8X0083	BOLT 1/2-13NC X 8" GR5 YZ
8X0007	BOLT 3/8-16NC X 1-1/2" GR5 YZ	8X0084	BOLT 1/2-13NC X 9" GR5 YZ
8X0008	BOLT 3/8-16NC X 2" GR5 YZ	8X0087	BOLT 5/8-11NC X 1-1/2" GR5 YZ
8X0009	BOLT 1/4-20NC X 2" GR5 YZ	8X0090	BOLT 5/8-11NC X 2-1/4" GR5 YZ
8X0010	BOLT 1/4-20NC X 1-1/4" GR5 YZ	8X0091	BOLT 5/8-11NC X 1-3/4" GR5 YZ
8X0011	SCREW RDHD SLOT1/4-20X1.5" YZ	8X0092	BOLT 5/8-11NC X 2-3/4" GR5 YZ
8X0013	BOLT 1/4-20NC X 2-1/2" GR5 YZ	8X0093	BOLT 5/8-11NC X 2" GR5 YZ
8X0014	BOLT 1/4-20NC X 3" GR5 YZ	8X0095	BOLT 5/8-11NC X 5" GR5 YZ
8X0015	BOLT 3/8-16NC X 3-3/4" GR5 YZ	8X0096	BOLT 5/8-11NC X 4" GR5 YZ
8X0016	BOLT 3/8-16NC X 3" GR5 YZ	8X0098	BOLT 5/8-11X 3.5"FULLTHDGR5 YZ
8X0017	BOLT 3/8-16NC X 5" GR5 YZ	8X0099	BOLT 5/8-11X6.75"W/3.5THDGR5YZ
8X0019	BOLT 3/8-16NC X 4-1/2" GR5 YZ	8X0101	BOLT 5/8-11NC X 8" GR5 YZ
8X0020	BOLT 3/8-16X3.5"FULLTHDGR5 YZ	8X0102	BOLT 5/8-11NC X 9" GR5 YZ
8X0021	BOLT 5/16-18NC X 3/4" GR5 YZ	8X0106	BOLT 3/4X2.75"W/1.38THD GR8 YZ
8X0021A	BOLT 5/16-18NC X 1" GR5 YZ	8X0107	BOLT 3/4-10NC X 2" GR5 YZ
8X0021B	BOLT 5/16-18NC X 1-1/4"GR5 YZ	8X0110	BOLT 3/4-10NC X 1-1/4" GR5 YZ
8X0023	BOLT 5/16-18NC X 2" GR5 YZ	8X0111	BOLT 3/4-10NC X 2-1/2" GR5 YZ
8X0030	BOLT 5/16-18NC X 5" GR5 YZ	8X0112	BOLT 3/4-10NC X 2-1/4" GR5 YZ
8X0031	BOLT 7/16-14NC X 1" GR5 YZ	8X0113	BOLT 3/4-10NC X 5" GR5 YZ
8X0033	BOLT 7/16X1.25 5/8"THD GR5 YZ	8X0114	BOLT 3/4-10NC X 3" GR5 YZ
8X0034	BOLT 7/16-14NC X 1.75" GR5 YZ	8X0115	BOLT 3/4-10NC X 3-1/2" GR5 YZ
8X0036	BOLT 7/16-14NC X 2" GR5 YZ	8X0115A	BOLT 3/4NCX 3.5"FULLTHD GR5 YZ
8X0037	PLOWBOLT 1/2-13NC X 2" GR5 YZ	8X0115B	BOLT 3/4-10NC X 3-1/2" GR8 YZ
8X0037A	PLOWBOLT 1/2-13NCX2.25" GR5 YZ	8X0116	BOLT 3/4-10NC X 6" GR5 YZ
8X0038	BOLT 7/16-14NC X 2-1/2"GR5 YZ	8X0117	BOLT 3/4-10NC X 7" GR5 YZ
8X0041	BOLT 7/16-14NC X 3" GR5 YZ	8X0118	BOLT 3/4-10NC X 4" GR5 YZ
8X0044	BOLT 7/16-14NC X 3-1/2"GR5 YZ	8X0118A	BOLT 3/4-10NC X 4-1/4" GR5 YZ
8X0045	BOLT 7/16-14NC X 4-1/2"GR5 YZ	8X0119	BOLT 3/4-10NC X 7-1/2" GR5 YZ
8X0046	BOLT 7/16-14NC X 7-1/4" GR5 YZ	8X0120	BOLT 3/4-10NC X 9" GR5 YZ
8X0047	BOLT 7/16-14NC X 6" GR5 YZ	8X0121	BOLT 3/4-10NC X 6-1/2" GR5 YZ
8X0048	CRG 7/16-14NC X 3-1/2" GR5 YZ	8X0122	BOLT 3/4-10NC X 4-1/2" GR5 YZ
8X0061	BOLT 1/2-13NC X 1-1/4" GR5 YZ	8X0123	BOLT 3/4-10NC X 5-1/2" GR5 YZ
8X0062	BOLT 1/2-13NC X 2" GR5 YZ	8X0125	BOLT 3/4-10NC X 10" GR5 YZ
8X0063	BOLT 1/2-13NC X 1-1/2" GR5 YZ	8X0128	BOLT 3/4-10NC X 8-1/2" GR8 YZ
8X0064	CRG 1/2-13NC X 1-1/2" GR5 YZ	8X0130	BOLT 7/8-9NC X 2" GR5 YZ
8X0065	CRG 1/2-13NC X 2" GR5 YZ	8X0132	BOLT 7/8-9NC X 2-1/2" GR5 YZ
8X0065L	CRG 1/2-13NC X 3" GR5 ZINC	8X0133	BOLT 7/8-9NC X 3" GR5 YZ
8X0065S	SCKT CAP 1/2-13 X 1.62"GR8 PLN	8X0138	BOLT 1-8NC X 5-1/2" GR5 YZ
8X0066	BOLT 1/2-13NC X 1-3/4" GR5 YZ	8X0139	BOLT 1-8NC X 3" GR5 YZ
8X0067	BOLT 1/2-13NC X 2-1/4" GR5 YZ	8X0140	BOLT 1-8NCX7" W/1.5"THDGR5 YZ
8X0068	BOLT 1/2-13NC X 2-1/2" GR5 YZ	8X0141	BOLT 1-8NC X 7.5" GR5 YZ
8X0069	BOLT 1/2-13NC X 3" GR5 YZ	8X0142	BOLT 1-8NCX3.5" GR5 YZ
8X0070	BOLT 1/2-13NC X 3-1/4" GR5 YZ	8X0143	BOLT 1-8NC X 5" GR5 YZ
8X0071	BOLT 1/2-13X 3"SHOULDR GR2 YZ	8X0145	BOLT 1-8NC X 10-1/2" GR5 YZ
8X0072	BOLT 1/2-13NC X 3-3/4" GR5 YZ	8X0146	BOLT 1-8NC X 8-1/2" GR5 YZ
8X0073	BOLT 1/2-13NC X 5" GR5 YZ	8X0149	BOLT 1-8NC X 18" GR5 YZ
8X0074	BOLT 1/2-13NC X 4-1/2" GR5 YZ	8X0150	BOLT 1-8NC X 20" GR5 YZ
8X0075	BOLT 1/2-13NC X 6" GR5 YZ	8X0201	NUT 3/8"-16NC HEX GR2 YZ

<u>Stock code</u>	<u>Description</u>	<u>Stock code</u>	<u>Description</u>
8X0202	NUT 3/8"-16NC NY-LOCK GR2 YZ	8X0309	LOCKWASHER 1" YLW ZNC
8X0203	NUT 3/8"-16NC SERFLANG GR2 YZ	8X0311	LOCKWASHER 1-1/4" YLW ZNC
8X0204	NUT 3/8"-16NC HEX GR2 GALV	8X0315	LOCKWASHER 1-1/2" YLW ZNC
8X0205	NUT 10-24 HEX YZ	8X0316	WASHER 1" SAE FLAT YZ
8X0210	NUT 5/16"-18NC HEX GR2 YZ	8X0317	WASHER 3/4" SAE FLAT YZ
8X0211	NUT 5/16"-18NC SERFLANG GR2 YZ	8X0318	WASHER 3/4"(13/16"ID)FLAT YZ
8X0212	NUT 5/16"-18NC NY-LOCK GR2 YZ	8X0320	WASHER 3/8"(7/16" ID)FLAT YZ
8X0218	NUT 1/4"-20NC SQ GR2 SS	8X0323	WASHER 5/8" SAE FLAT YZ
8X0220	NUT 1/4"-20NC HEX GR2 YZ	8X0325	WASHER 3/4"(13/16"ID)FLAT PLN
8X0222	NUT 1/4"-20NC NY-LOCK GR2 YZ	8X0326	WASHER 1.257"IDX2.75"OD PLN
8X0223	NUT 1/4"-20NC SERFLANG GR2 YZ	8X0327	WASHER 1-1/4" SAE FLAT YZ
8X0232	NUT 7/16"-14NC HEX GR2 YZ	8X0329	WASHER 5/16"(3/8" ID)FLAT YZ
8X0234	NUT 7/16"-14NC NY-LOCK GR2 YZ	8X0330	WASHER 17/32"ID X 1.25"OD YZ
8X0240	NUT 1/2"-13NC HEX GR2 YZ	8X0331	WASHER 15/32"ID X 1.25"OD YZ
8X0242	NUT 1/2"-13NC NY-LOCK GR2 YZ	8X0332	WASHER 1/4"(5/16" ID) FLAT YZ
8X0244	NUT 1/2"-13NC FLANG TOP LOCK Z	8X0354	WASHER 1-1/2"IDX2.25"X14GA YZ
8X0246	NUT 1/2"-13NC SERFLANG GR2 YZ	8X0355	WASHER 1-1/2"IDX2.25"X10GA PLN
8X0250	NUT 5/8"-11NC HEX GR2 YZ	8X0362	WASHER 2.03IDX2-7/8ODX 9GA PLN
8X0251	NUT 5/8"-11NC JAM GR2 YZ	8X0364	WASHER 2.5 IDX3.5 ODX 14GA YZ
8X0253	NUT 5/8"-11NC NY-LOCK GR2 YZ	8X0366	WASHER 2.03IDX2-7/8ODX 1/4"PLN
8X0256	NUT 5/8"-11NC SERFLANG GR2 YZ	8X0367	WASHER 1-3/4"IDX3.25"X14GA PLN
8X0259	NUT 3/4"-10NC JAM GR2 YZ	8X0368	WASHER 1-1/2" SAE FLAT PLN
8X0260	NUT 3/4"-10NC HEX GR2 YZ	8X0370	WASHER 3.016"IDX 3.93"ODX 14GA
8X0261	NUT 3/4"-10NC NY-LOCK GR2 YZ	8X0380	WASHER 3.06"IDX4.25" X 3/16"
8X0264	NUT 3/4"-10NC BEVL CNTRLCK YZ	8X0400	HAIRPIN CLIP 1/8 X 1-15/16"
8X0265	NUT 3/4"-10NC CNTRLOCK GR2 YZ	8X0402	HAIRPIN CLIP 1/8 X 2-9/16"
8X0266	NUT 3/4"-10NC SERFLANG GR2 YZ	8X0410	COTTER PIN 3/16 X 1" YZ
8X0268	NUT 7/8"-9NC HEX GR2 YZ	8X0414	COTTER PIN 1/4 X 2" YZ
8X0269	NUT 7/8"-9NC JAM GR2 YZ	8X0415	COTTER PIN 3/16 X 1-1/2"
8X0270	NUT 7/8"-9NC CNTRLOCK GR2 YZ	8X0418	COTTER PIN 5/16 X 2-1/2" YZ
8X0274	NUT 7/8"-9NC FLNG GRF YZ	8X0420	CLEVIS PIN 7/16 X 1-3/4" YZ
8X0277	NUT 1"-8NC JAM GR2 YZ	8X0422	CLEVIS PIN 1/2 X 2-1/4" YZ
8X0278	NUT 1"-8NC JAM TOPLOCK GR2 YZ	8X0425	CLEVIS PIN 1/2 X 3" YZ
8X0280	NUT 1"-8NC HEX GR2 YZ	8X0428	CLEVIS PIN 1/2 X 5-1/4" YZ
8X0281	NUT 1"-8NC NY-LOCK GR2 YZ	8X0432	CLEVIS PIN 1/2 X 6" YZ
8X0282	NUT 1"-14TPI TOPLOCK GR B Z	8X0440	CLEVIS PIN 5/8 X 3-7/8" YZ
8X0283	NUT 1-1/4"-7NC JAM GR2 YZ	8X0462	CLEVIS PIN 3/8 X 3" W/HL YZ
8X0284	NUT 1-1/4"-7NC HEX GR2 YZ	8X0480	HITCH PIN W/LYNCH 5/8X4"YZ
8X0285	NUT 1-1/2"-6NC HEX GR2 YZ	8X0492	LYNCH PIN 3/16 X 1-1/4" YZ
8X0286	NUT 1-1/2"-6NC JAM GR2 YZ	8X0500	LYNCH PIN 7/16 X 1-3/4" YZ
8X0290	NUT 1-1/4"-7NC HEXSLOT GR2 YZ	8X0520	ROLL PIN 3/16 X 2" ZINC CLEAR
8X0292	NUT 2"-4.5 HVY HEXSLOT GR2 PLN	8X0523	ROLL PIN 5/16 X 2-1/2" PLN
8X0292S	NUT 2"NC HEXSLOT MACHIND 1.75"	8X0528	ROLL PIN 3/8 X 2-1/2" ZINC
8X0299	LOCKWASHER 1/4" EXT TOOTH SS	8X0605	SET SCRW SQ HD 7/16-14X 1" YZ
8X0300	LOCKWASHER 5/16" YLW ZNC	8X0632	SET SCRW SCKT 7/16-14X 1.5"PLN
8X0301	LOCKWASHER 3/8" YLW ZNC	8X0665	SET SCRW SQ HD 3/4-10X4.5" YZ
8X0302	LOCKWASHER 7/16" YLW ZNC	8X0708	ZERK 1/4"-28 NF STR YZ
8X0303	LOCKWASHER 1/2" YLW ZNC	8X0710	ZERK 1/4"-28 NF 90 DEG YZ
8X0304	LOCKWASHER 5/8" YLW ZNC	8X0721	ZERK 5/16"-24 NF STR YZ
8X0306	LOCKWASHER 3/4" YLW ZNC	8X0725	ZERK 1/8" MPT STR YZ
8X0307	LOCKWASHER 7/8" YLW ZNC	8X0727	ZERK 1/8" MPT 90 DEG YZ
8X0308	LOCKWASHER 1/4" YLW ZNC	8X0728	ZERK STANDOFF 1/8" NPT X 3"

<u>Stock code</u>	<u>Description</u>	<u>Stock code</u>	<u>Description</u>
8Z0075	DECAL TRNSPRT LCK WARNING TILL	8Z0348	GAUGE WHEEL DEPTH DECAL
8Z0087	DECAL "WARNING" PINCH POINT03-	8Z0350	DECAL GREASE GANG BEARNG 04-
8Z0100	MADE IN THE USA DECAL	8Z0800	REFLECTOR AMBER ADHSVBCK98-
8Z0101	DECAL "SUMMERS" M94/04/06 2.25X9	8Z0805	REFLCTR REDORANGE ADHSVBK99-
8Z0114	DECAL ID M104 01-	8Z0810	REFLECTOR RED ADHSV-BACK 98-
8Z0115	DECAL ID M105 09-	8Z1000	MANUAL-PAK 3DIA X 11.75" 09-
8Z0138	DECAL ID SUPRCOULTR PLUS 01-	8Z1070	OPERATR MAN SUPRCOULTR 00-
8Z0202	DECAL "SUMMERS" 3.5"	8Z2400	SC1010 DECAL
8Z0204	DECAL "SUMMERS" 5.5"	8Z2405	SC1510 DECAL
8Z0276	DECAL GENERAL CAUTION 91-	8Z2410	SC1030 DECAL
8Z0340	DECAL REPHASING CYLINDERS	8Z2415	SC1530 DECAL
8Z0342	DECAL INSTALL CYLINDER LOCKS	8Z2420	SC1535 DECAL
8Z0344	DECAL WING DANGER	8Z2430	SC1550 DECAL
8Z0346	DECAL ELECTROCUTION-TILLAGE		

History of Summers Manufacturing Co., Inc.

- 1965 – Summers Manufacturing is founded by Harley Summers, who purchases patent rights for Goebel truck and pickup hoists from the Goebel Brothers of Lehr, ND. These hoists, produced in Harley Summers' blacksmith shop the first year, were distributed nationwide by a Cincinnati, Ohio, dealer. With increasing sales, the company soon outgrows the small shop. Summers wins the Herman harrow contract, beginning the company's Herman culti-harrow line. Summers builds a 7,200 square-foot factory in Maddock to meet the demand for truck and pickup hoists, as well as Herman harrows.
- 1969 – Firm incorporates and becomes officially known as Summers Manufacturing Company, Inc.
- 1970 – Summers purchases rights to manufacture/market the Herman Harrow.
- 1973 – Company builds new 20,000 square-foot plant and offices in Maddock, adding a 20,000 square-foot assembly plant in the fall of 1975 (completed in January 1976), bringing total square footage of Maddock factories to 47,000.
- 1977 – Summers introduces the Agri-sprayer, used in conjunction with the Herman culti-harrow to incorporate herbicides and liquid fertilizer.
- 1980 – Company purchases manufacturing and distributing rights to Crown rockpickers from Crown Manufacturers of Regina, Saskatchewan. This forces another expansion project – a 26,000 square foot factory on a 24 acre site in Devils Lake, ND Industrial Park.
- 1981 – Company establishes a branch facility in Regina, Saskatchewan.
- 1982 – Devils Lake plant begins operations in January, manufacturing supersprayers and rockpickers. The Maddock factory begins producing the Superweeder, a combination cultivator and harrow.
- 1983 – Summers buys manufacturing and distributing rights to the Fargo Field Sprayer line from Mid America Steel (formerly Fargo Foundry), Fargo. This field sprayer line is manufactured at the Devils Lake plant. Harley Summers is selected North Dakota's small-businessman of the year by the Small Business Administration.
- 1984 – Herman Diamond Disk, a disk harrow made in a diamond shape to reduce blade breakage from rocks, comes off the assembly line.
- 1985 – Summers signs a contract with Melroe Company of Bismarck to obtain exclusive manufacturing rights to the Melroe harrow line.
- 1989 – Summers purchases TorMaster Company of Hordean, Manitoba, giving the company a line of rolling packer equipment, comprised of harrow packers and hydraulic fold coil packers.
- 1992 – A new engineering office/parts department is added to the Devils Lake factory.
- 1993 – Company adds two new products: a pickup-mounted sprayer with booms of 80 and 90 feet, and the Summers Superharrow, an extra-heavy-duty residue-management tool designed for the minimum and no-till farmer.
- 1994 – a 50 by 125 foot addition to the Maddock factory is completed. Construction begins on a 24,576 square-foot addition to the Devils Lake factory, which enables the company to increase production of truck-mounted and pull-type supersprayers and rockpickers.
- 1996 – 1500 square foot office area added to the Maddock plant. Company introduces Chisel Plow with floating hitch and 700# trip assembly.
- 1997 – 16,800 square foot warehouse in Maddock purchased from local business.
- 1999 - Company introduces the Ultimate suspended boom trailer sprayer with hydraulic folding booms. Additional sizes added to the Chisel Plow line, now ranging from 28' to 54'.
- 2000 - Company introduces the Supercoulter, the innovative solution for excessive field residue management on no-till, minimum-till, and conventional-till farming operations.
- 2001 - Cold storage building completed at Devils Lake. Company extends boom lengths up to 110 feet on the Ultimate Supersprayer.
- 2002 - Company adds a warehouse and service man in Aberdeen, SD.
- 2003 - Company introduces the Ultimate NT Supersprayer featuring a bolt on axle for easier adjustment, and a new family of tanks that feature a drainable sump and a common width dimension.
- 2004 - A 124 ft. x 310 ft. addition is added onto the current Devils Lake plant.
- 2005 - The Summers Superroller is added to the "Field Tested Tough" product line. Additional sizes of 56', 58' and 60' are added to the Superchisel line. Ultimate-Ultra NT Supersprayer introduced featuring 120' & 133' booms.
- 2006 - The Summers Coulter-Chisel, Rolling Choppers and 30' Superroller were included in product line.
- 2007 - 62' & 84' 5 Section Landrollers and a 20' Coulter-Chisel were introduced.
- 2008 - Disk-Chisels, ranging from 16' to 40' widths, are added to product line.
- 2009 – M105 and M108 Mounted Harrows added to selection of Mounted Attachments. SuperHarrow 2650, 50' SuperCoulter, Hydraulic Fold Rolling Chopper and 36" diameter Landrollers introduced.
- 2010 – Rolling Basket and 47' Diamond Disk added to product line. A 124 ft. x 310 ft. addition to Devils Lake factory built for a state of the art paint system.
- 2011 – Additional Supercoulter sizes were added along with larger tires for tillage implements. Ultimate and Ultra Supersprayers received an additional tank size of 1650 gallons. Front Caster Wheel option was made available for chisel implements.
- 2012 – 41', 46' & 53' Trail Type Landroller added to product line. Additional Superchisel sizes of 16' & 20' were added.
- 2013 – DT9530 added to product line. Internal Scraper in Rolling Baskets introduced. Finishing Coulter Gang becomes standard on the Diamond Disk and 2510 DT. Corporate offices opened at Devils Lake plant. New building and location for the Aberdeen warehouse.
- 2014 – Introduced the VRT2530 (Variable Rate Tillage).
- 2015 – Introduced the VT Flex Applicator and Spray Fill Xpress.
- Summers distributes on a wholesale level to dealers and distributors throughout markets in North Dakota, South Dakota, Minnesota, Montana, Iowa, Washington, Idaho, Oregon, Utah, Colorado, Kansas, Nebraska, Oklahoma, Texas, Manitoba, Saskatchewan, Alberta, British Columbia, Kazakhstan, Russia and Australia, making it an international company.



SUMMERS[®]

... Field Tested TOUGH!



Tillage



Rock Picker

Cultivators/Harrows



Mounted Attachments



Land Rollers/Packers



Sprayers

