

# **SUMMERS®**

## **Operator's Manual**

**HYDRAULIC  
FOLD**

### **ROLLING CHOPPER**

**15' - 57'**

**HYDRAULIC  
FOLD**

### **COIL PACKER**

**14' - 66'**

#### **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](http://www.summersmfg.com) for the latest version of all Summers Operator's Manuals.*

**SUMMERS MANUFACTURING CO., INC.**

**WEB SITE: [www.summersmfg.com](http://www.summersmfg.com)**

DEVILS LAKE, NORTH DAKOTA 58301 ..... (701) 662-5391

# 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 of purchase by the end user from Summers' dealer.

Summers' obligation is to replace free of charge any part of any 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 herein 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, NORTH DAKOTA 58301**

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# INTRODUCTION

This manual provides information about Safety, Assembly, Operation and Parts for the Summers Hydraulic Fold Coil Packer and Hydraulic Fold Rolling Chopper. Please refer to these sections before assembling or operating your machine.

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

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 back section of manual for description of each Part Number.

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 obligations 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, this Operator’s Manual should be REVIEWED at least ANNUALLY thereafter.**

**NOTE: Operating Packer Coils or Rolling Choppers in wet conditions will cause:**

1. Excessive packing with possible soil surface crusting.
2. Increased implement frame stress.

**Discontinue use of packer coils or rolling choppers if mud build-up occurs.**

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



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**Section 1: SAFETY**

**Section 2: ASSEMBLY**

**Section 3: OPERATION and MAINTENANCE**

**Section 4: PARTS**

**Section 5: PART NUMBERS WITH DESCRIPTIONS**

| <b><u>OWNER REGISTER</u></b> |   |
|------------------------------|---|
| Name _____                   | Size _____  |
| Address _____                | Serial Number _____<br>(located by the hitch piece) |
| City _____                   | Date Purchased _____                                |
| State/Prov. _____            | Dealer _____  |
| Mail Code _____              |   |

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# TRANSPORT SAFETY

1. Road speed should not exceed 20 mph (32 km/hr).



2. Do not tow if the implement's towing vehicle ratio is greater than 1.5:1. See Specifications Section for implement weights.
3. If more than one implement is to be pulled by a towing vehicle, it is recommended that each implement is to be a maximum of 50% of the weight of the preceding implement. If it is not possible to reach this weight limit, transport the implements separately.
4. When approaching rough roads/ground (such as entering a road), slow down to a safe driving speed.
5. Check all lights and reflectors to ensure ALL regulations are met. Make sure the SMV emblem is attached to the implement and is clearly visible from the rear.



SMV emblems are only attached to vehicles traveling slower than 25 mph (40 km/hr). The most hazardous conditions to drive in are a daybreak and dusk. The use of a pilot car is recommended.

6. Always install ALL safety locks before transporting an implement.
7. Always park implements on a firm, level surface.

**SAFETY-ALERT SYMBOL**



This symbol is used to denote possible danger and care should be taken to prevent bodily injury. This symbol means:

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

Definition of each **Signal Word** used in conjunction with the **Safety-Alert** symbol.



indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations.



indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

**GENERAL SAFETY PRACTICES**

1. **READ AND UNDERSTAND** Operator's Manual before using machine. Review at least annually thereafter.
2. **VERIFY** all safety devices and shields are in place before using machine.
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. **ALWAYS** make sure that pressure is relieved from hydraulic circuits before servicing or disconnecting from tractor..
7. **DO NOT ALLOW RIDERS.**
8. **USE EXTREME CARE** when making adjustments.
9. **KEEP CHILDREN AWAY** from machinery at all times.
10. **NEVER ALLOW** anyone to walk or work under a raised piece of equipment without installing transport locks.

## SECTION 1 - SAFETY

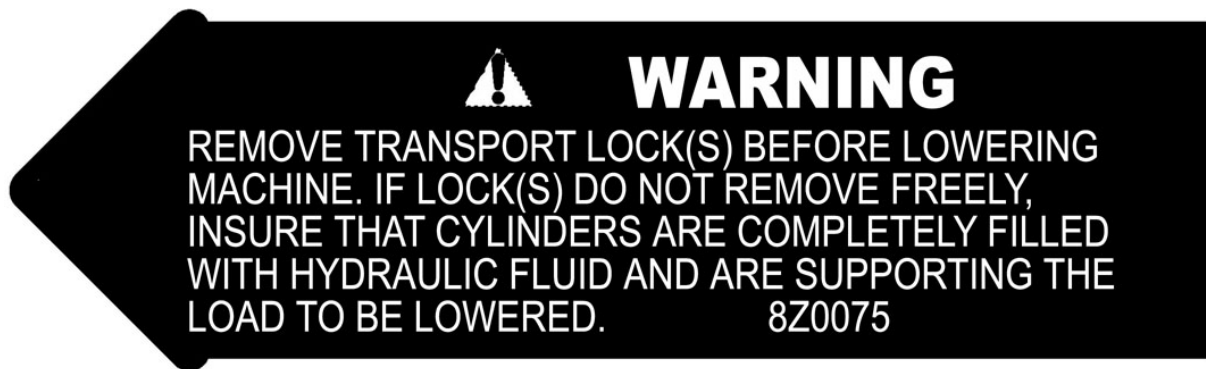
### SAFETY DURING TRANSPORT

1. **ONLY TOW** at a safe speed. Use caution when making corners or meeting traffic.
2. **USE** a 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 maximum width regulations when transporting on highways.
5. Frequently check for traffic from rear, especially during turns.

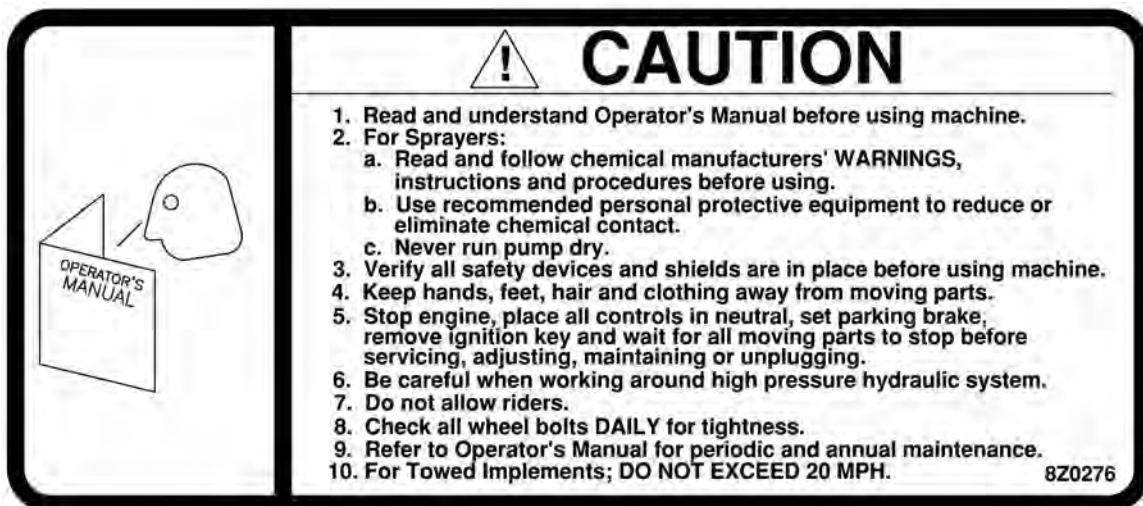
### SAFETY DECALS

1. **KEEP SAFETY DECALS AND REFLECTORS CLEAN.**
2. **REPLACE** missing or unreadable decals. New decals are available from your Summers dealer by stating correct part number (PN) located in lower right hand corner.

#### 1. TRANSPORT LOCK DECAL (PN 8Z0075)

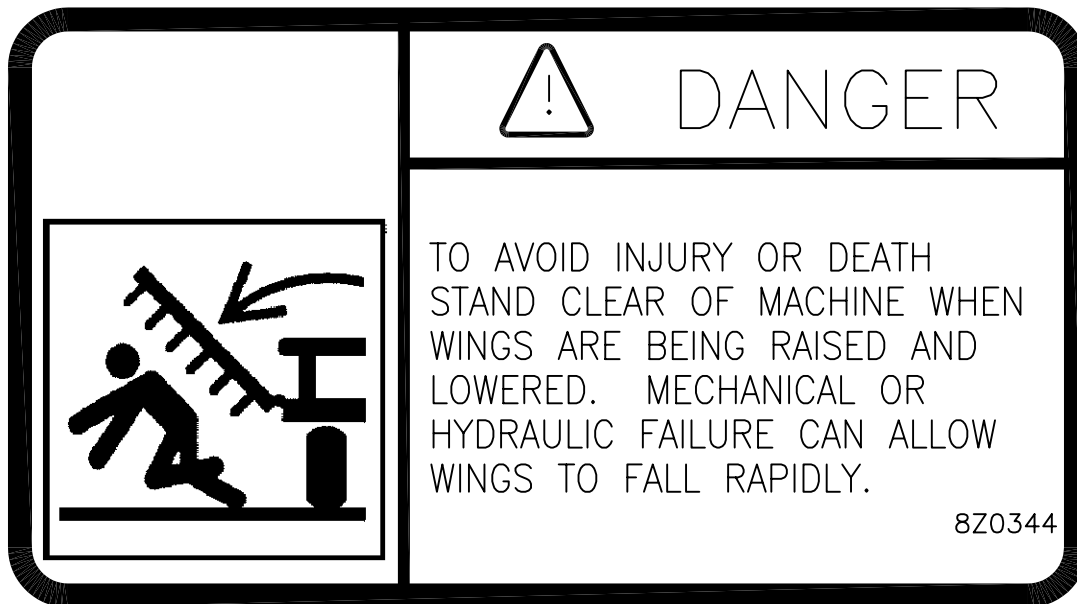


#### 2. GENERAL CAUTION DECAL (PN 8Z0276)

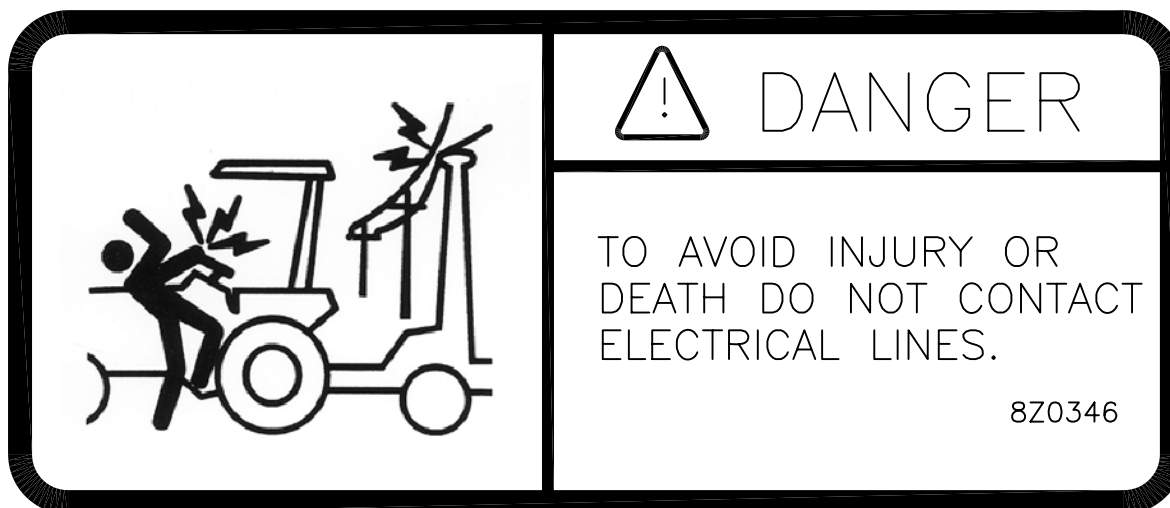


SECTION 1 - SAFETY

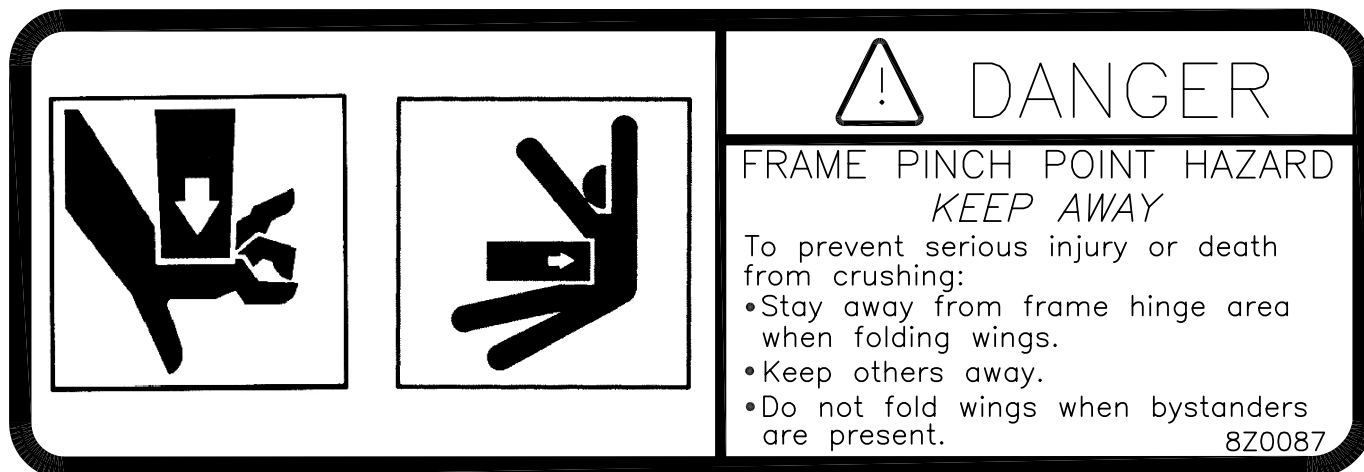
3. WING DANGER DECAL (PN 8Z0344)



4. ELECTROCUTION DANGER DECAL (PN 8Z0346)



5. PINCH POINT DECAL (PN 8Z0087)

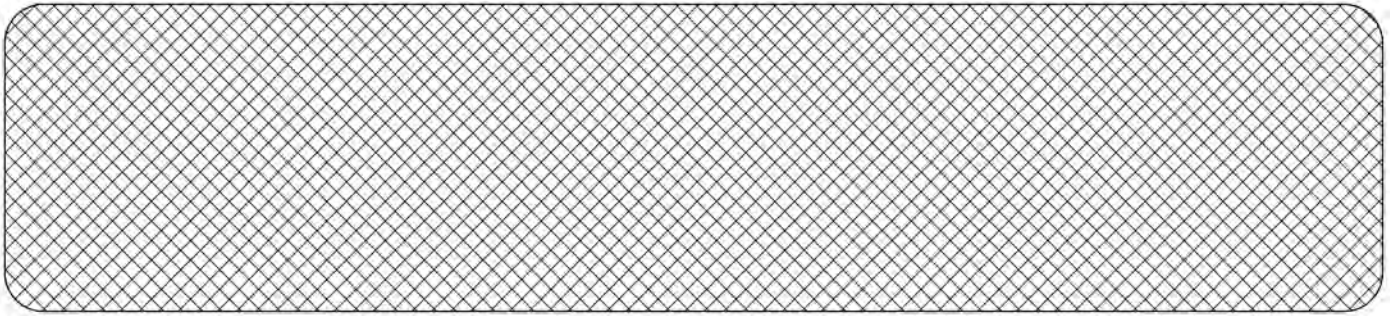




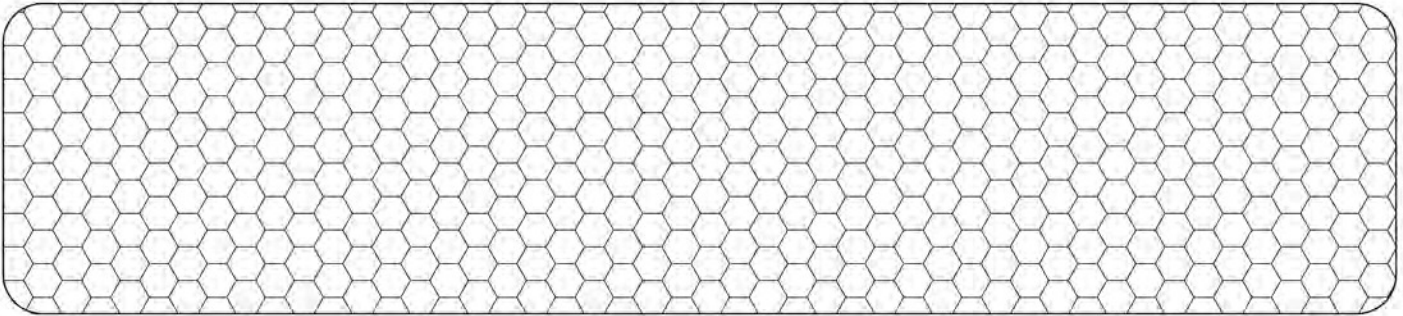
## SECTION 1 - SAFETY

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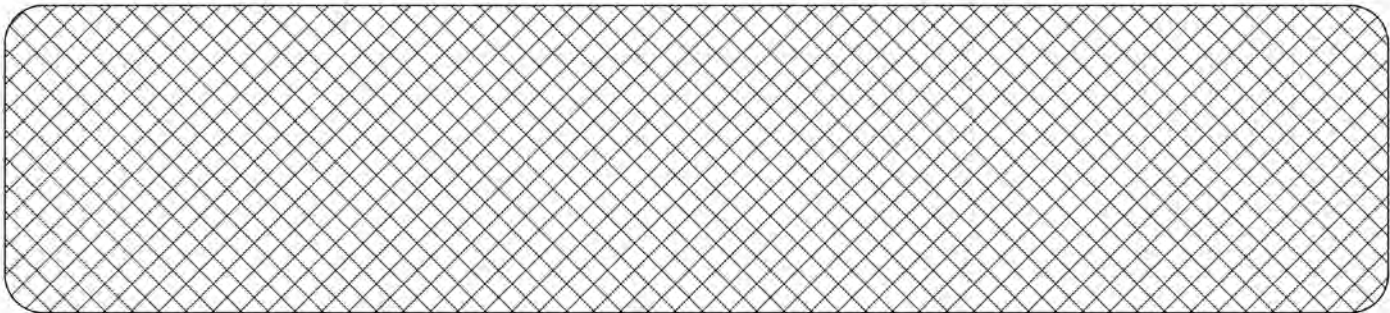
### 6. AMBER REFLECTOR (PN 8Z0800)



### 7. RED-ORANGE REFLECTOR (PN 8Z0805)



### 8. RED REFLECTOR (PN 8Z0810)

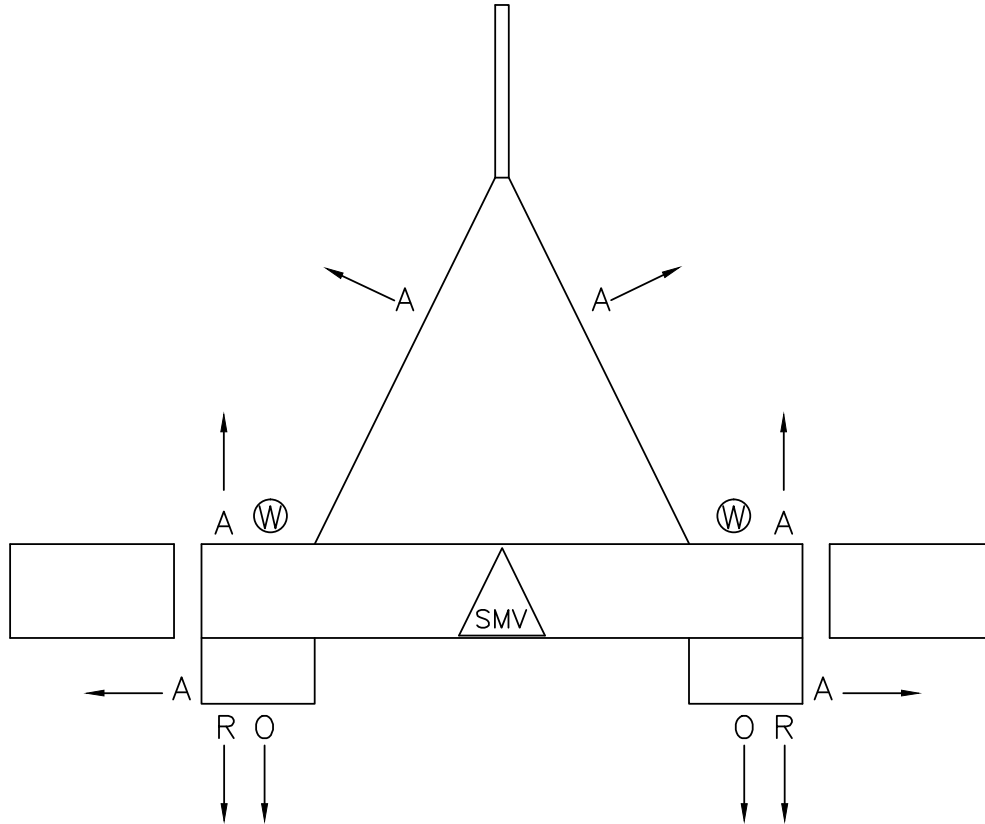


### **SAFETY LIGHT OPERATION**

The Summers Safety Light Kit is equipped with a 7 pin connector. To protect 7 pin connector, store in dust cap (8K8067) when not attached to towing vehicle. If brake lights remain illuminated at all times remove wire from pin #4 in 7 pin connector. *Tractors newer than 2007 should not have this issue.*

# REFLECTOR LOCATIONS

Summers Mfg. Co., Inc.  
HYDRAULIC FOLD IMPLEMENT



| PRODUCT SIZE | QTY RED-ORANGE | QTY RED | QTY AMBER |
|--------------|----------------|---------|-----------|
| ALL          | 2              | 2       | 6         |

## Legend

Ⓜ = Wing Danger Decal (8Z0344)

A = Amber Reflector (8Z0800)

O = Red-Orange Reflector (8Z0805)

R = Red Reflector (8Z0810)

 = SMV Attach Bracket (8K8210) w/Hardware

HFCP\REFLECTORS

## SECTION 1 - SAFETY

### GENERAL ASSEMBLY SAFETY PRACTICES



YOU ARE RESPONSIBLE for the safe assembly of the machine.



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



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



ALWAYS INSPECT LIFTING CHAINS AND SLINGS for damage or wear.



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



BE SURE LIFTING DEVICE IS RATED TO HANDLE THE WEIGHT.



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



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.



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



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**.

## SECTION 2 - ASSEMBLY

### SET-UP INSTRUCTIONS – 14' to 44' HYDRAULIC FOLD IMPLEMENT



Refer to illustrations on following pages and follow these steps when assembling an 14' to 44' Summers Hydraulic Fold Coil Packer or Hydraulic Fold Rolling Chopper. The machine should be placed in a firm, level area that allows ample room for assembly in field position.



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

#### CENTER ASSEMBLY

Place center section on stable supports approximately 2-1/2 ft. off floor. Install cylinder attach Eye Bolts. Set Eye Bolts in middle of adjustment. Install hydraulic cylinders. Secure Main Lift Cylinders with 1" diameter pins and cotter pins. Secure base end of Wing Lift Cylinders (8C0432) with 1" diameter pins and roll pins. Install center wheel lift arm assemblies with 1-1/4" X 14" pins. Apply good quality Anti-Seize lubricant on pins prior to assembly. Secure with 1/2" X 1-3/4" cap screws, lock nuts and flat washers (over slotted hole). Pre-Assemble Walking Axle assemblies (standard center only). Attach Walking Axle assemblies to lift arm assemblies with 3/4" bolts, lockwashers and nuts.

#### WING ASSEMBLY

Install left and right wings. Secure with 1-1/4" diameter pins and roll pins. Connect front and rear wing sections with cross braces. Refer to layout drawings to determine brace locations. Secure cross braces with 3/4" u-bolts. Attach wing axle assemblies to outside wing cross brace using 3/4" u-bolts. Wing axle and hub assemblies are optional on single coil/chopper wings.

#### HYDRAULIC SYSTEM

Install cylinder hydraulic fittings and hydraulic hoses between cylinders.

#### HITCH TUBES

Position hitch tube(s) on top of center section. Attach hitch tube(s) to center section with 3/4" u-bolts, lockwashers and nuts. Connect hitch tubes with hitch extension (8C5060, 8C5070 or 8C5100), hitch channel (8C5050) and hitch piece (8D0720) at front of machine using hardware provided.

#### HYDRAULIC HOSES TO TRACTOR AND TIRES

Install hydraulic hoses and fittings to front of machine. Secure hoses with clamps provided. Do not over tighten, hydraulic hoses expand and shorten when pressurized. Install wheels and tires. Tighten wheel bolts to 170 ft-lb torque.

#### CHARGE HYDRAULIC SYSTEM

Block Wing Lift Hydraulic Cylinders (8C0432) so rods can fully extend without contacting wing (Photo 44a.). Connect hydraulic tips to tractor hydraulic couplers. Extend and retract cylinders until air is purged from hydraulic system. Attach rod end of wing lift cylinders to wing lift slots with 1" X 7" bolt, flat washer, bushings and lock nut (Photo 44b.). Do not overtighten lock nuts as rod end of wing lift cylinder must slide freely in lift slot and bolt must rotate freely. Raise and lower machine. Watch so hydraulic hoses do not tighten or get pinched, adjust hoses if necessary. Adjust wing lift cylinder eye bolts so wings rest on center frame during transport. Tighten all Eye Bolts. Insure that cylinder attach holes are aligned when eyebolts are tightened.

## **SECTION 2 - ASSEMBLY**

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### **C-SHANKS**

Mark frame with coil /chopper locations shown in layout drawing. Install C-Shanks (8K4392) and secure with hardware provided.

### **COIL/CHOPPER ASSEMBLIES**

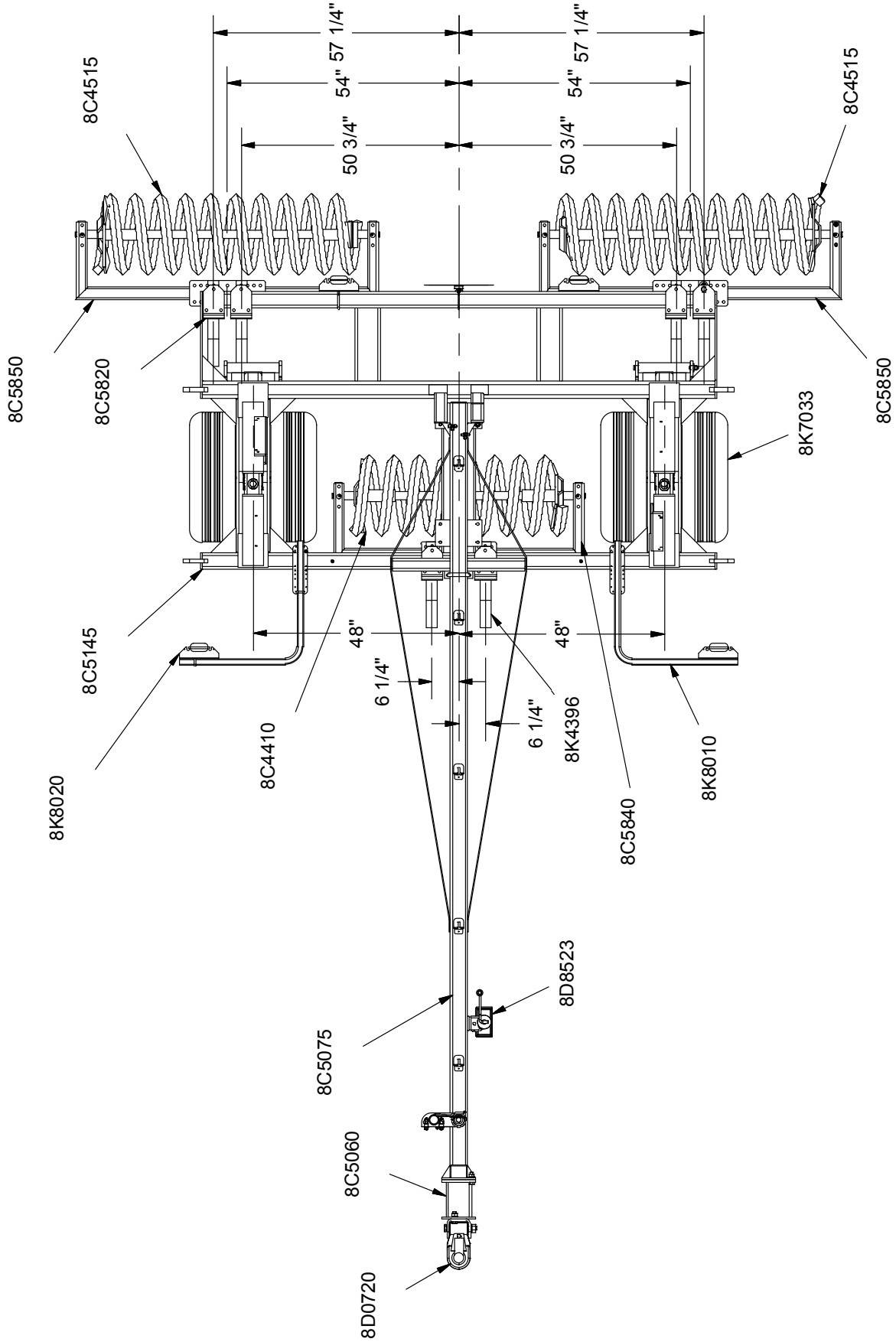
Pre-assemble Pull Frames. Secure pillow block to adjustment arm with 1/2" u-bolt and hardware. Secure bearing to coil shaft with set screws and snap ring. Attach Coil and Pull Frame assemblies to C-Shanks using 3/4" U-bolts (8C1720) and hardware. Note: Left and Right hand wound coils can be identified by comparing to Left and Right hand bolt threads.

SMV sign, Wing Transport Locks, Main Transport Lock, ID & Safety Decals and Safety Lighting

Install SMV sign at rear center of machine. Install Wing and Main transport locks. Install decals. Install Safety Lighting components. Where possible, run wiring harnesses next to hydraulic hoses. Secure with nylon ties.

SECTION 2 - ASSEMBLY

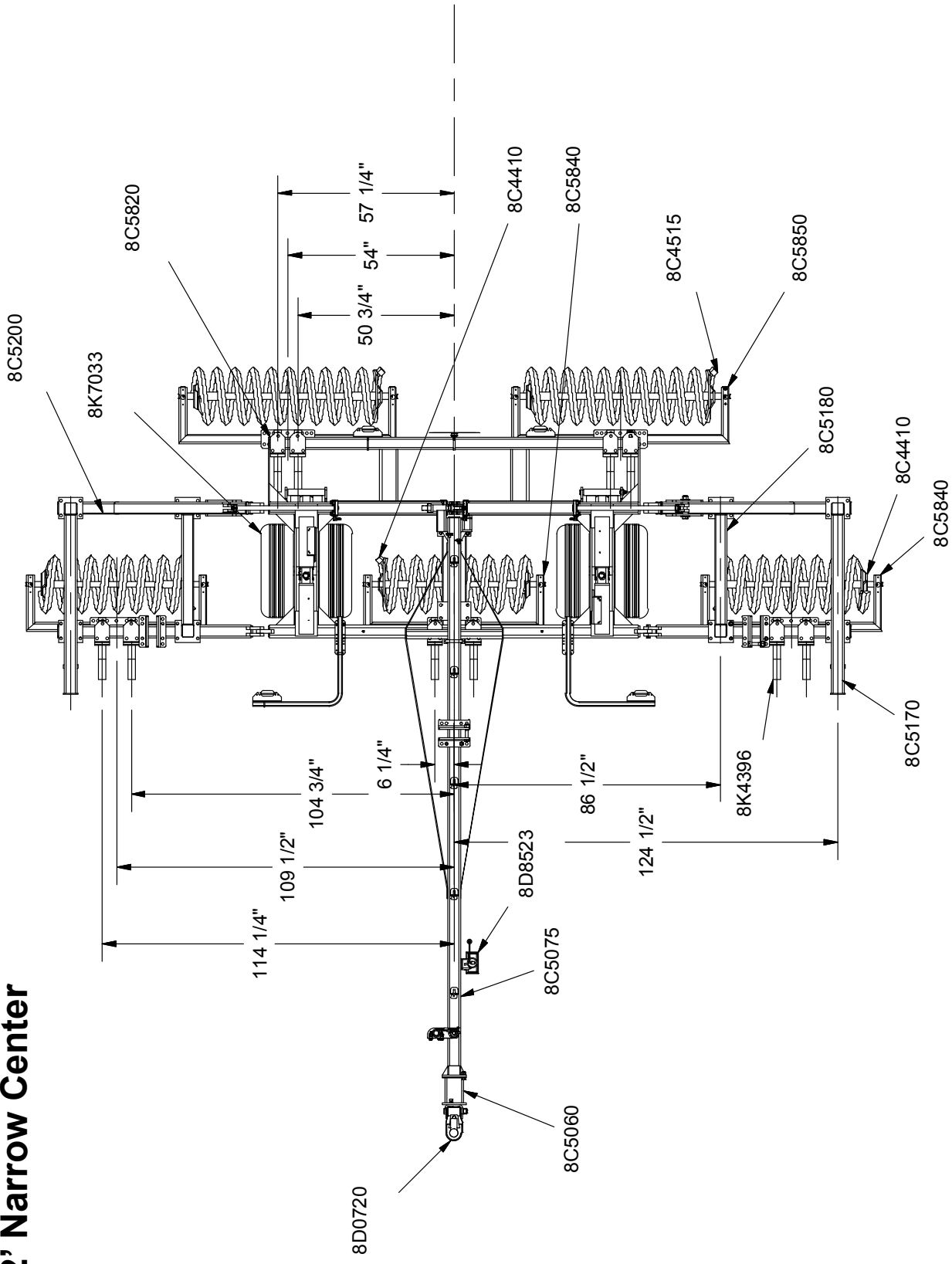
14' Narrow Center



7/18/2012 9PD0140.iam/HYD LIFT COIL PCKR N-CNTR 14'

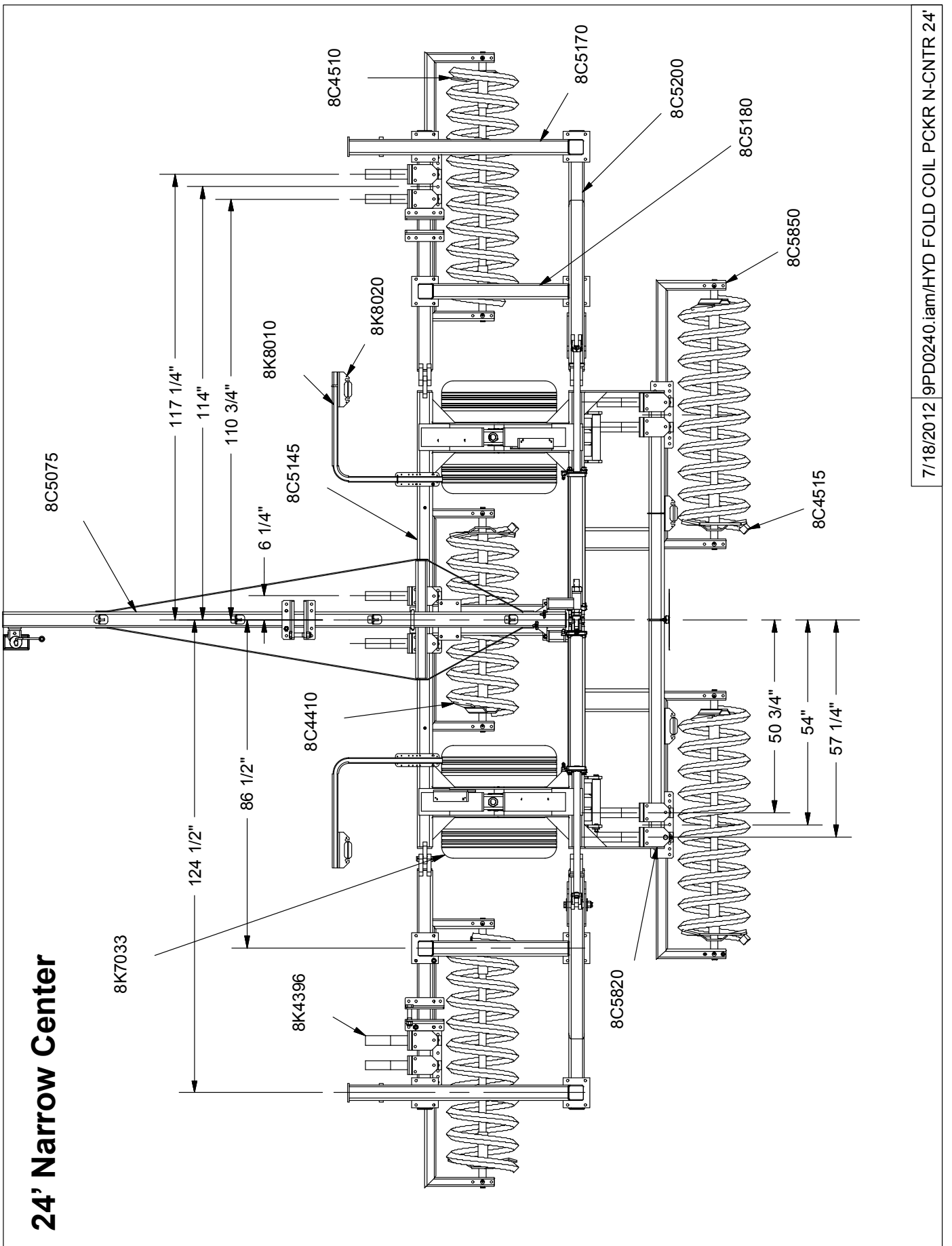
SECTION 2 - ASSEMBLY

22' Narrow Center



7/18/2012 9PD0220.iam/HYD FOLD COIL PCKR N-CNTR 22'

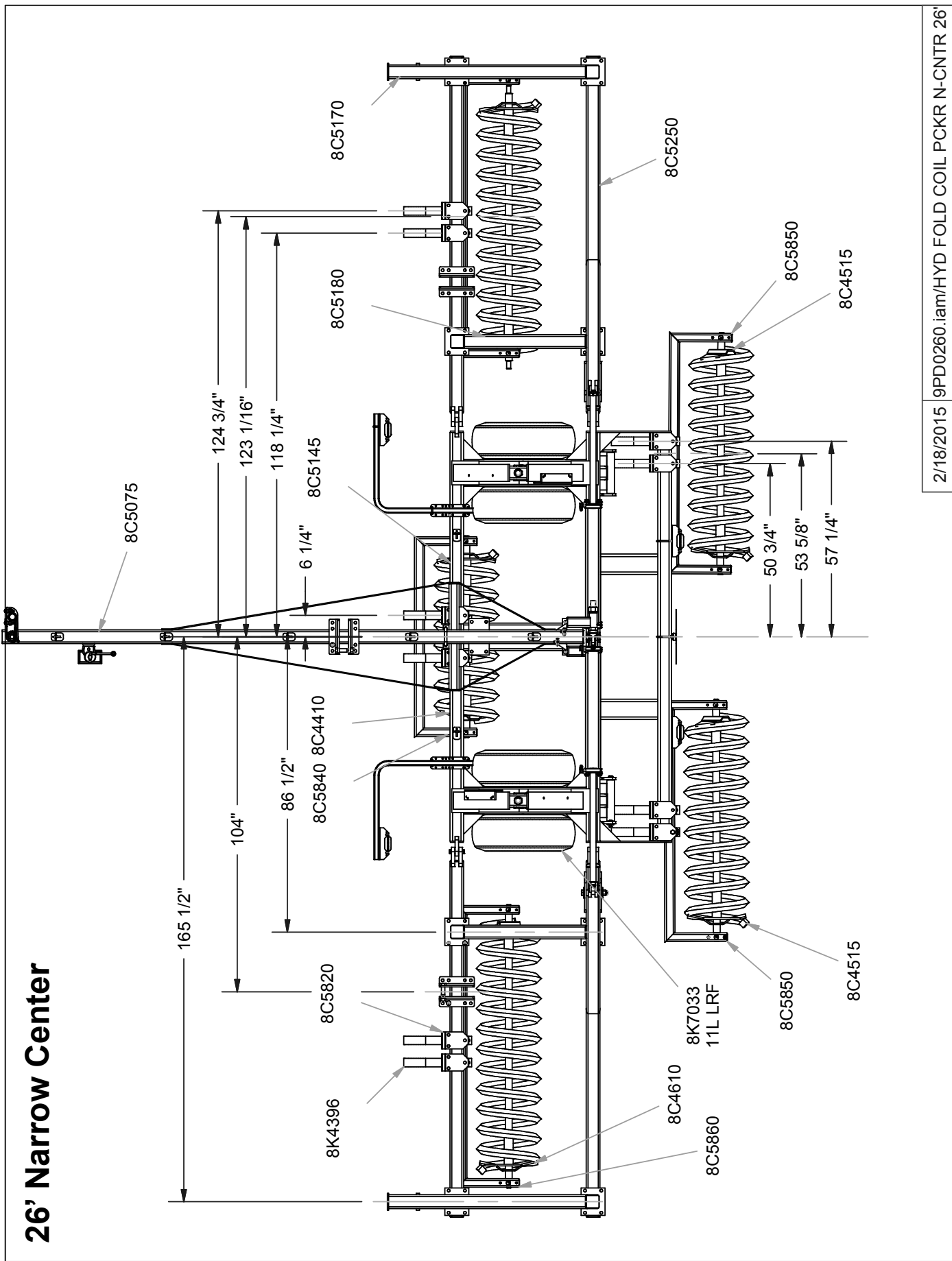
SECTION 2 - ASSEMBLY



7/18/2012 9PD0240.iam/HYD FOLD COIL PCKR N-CNTR 24'



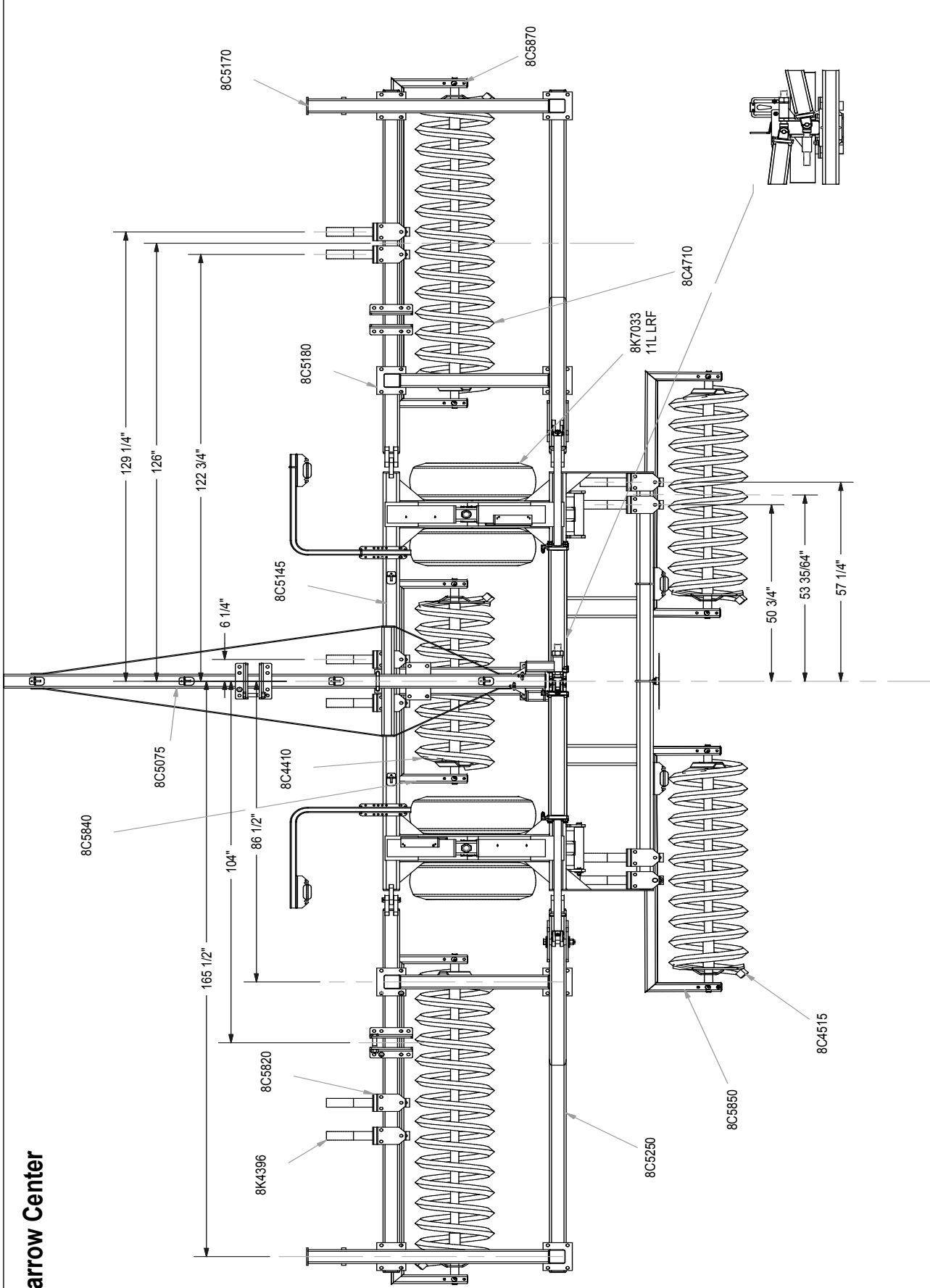
SECTION 2 - ASSEMBLY



2/18/2015 9PD0260.iam/HYD FOLD COIL PCKR N-CNTR 26'

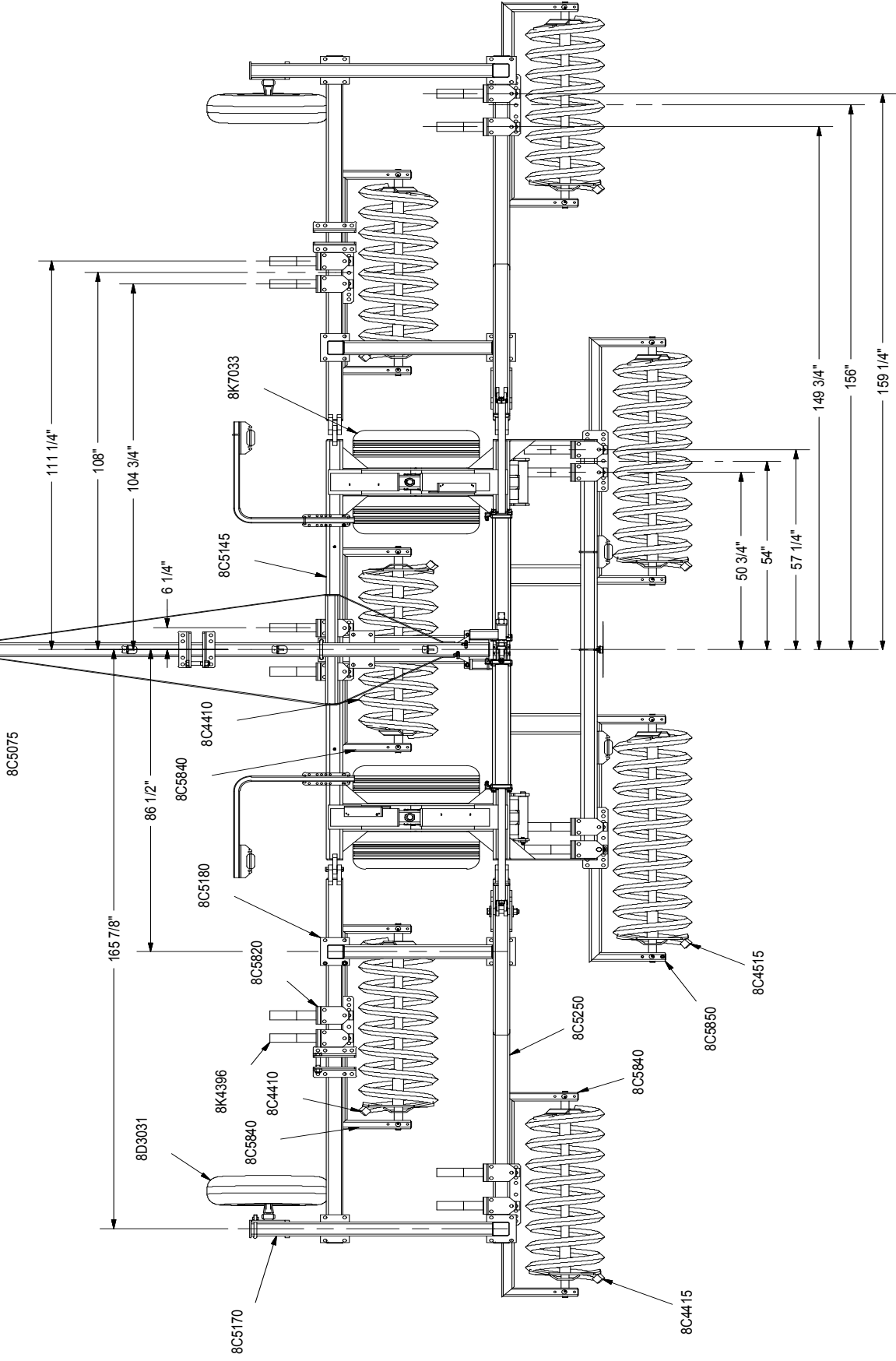
SECTION 2 - ASSEMBLY

28' Narrow Center



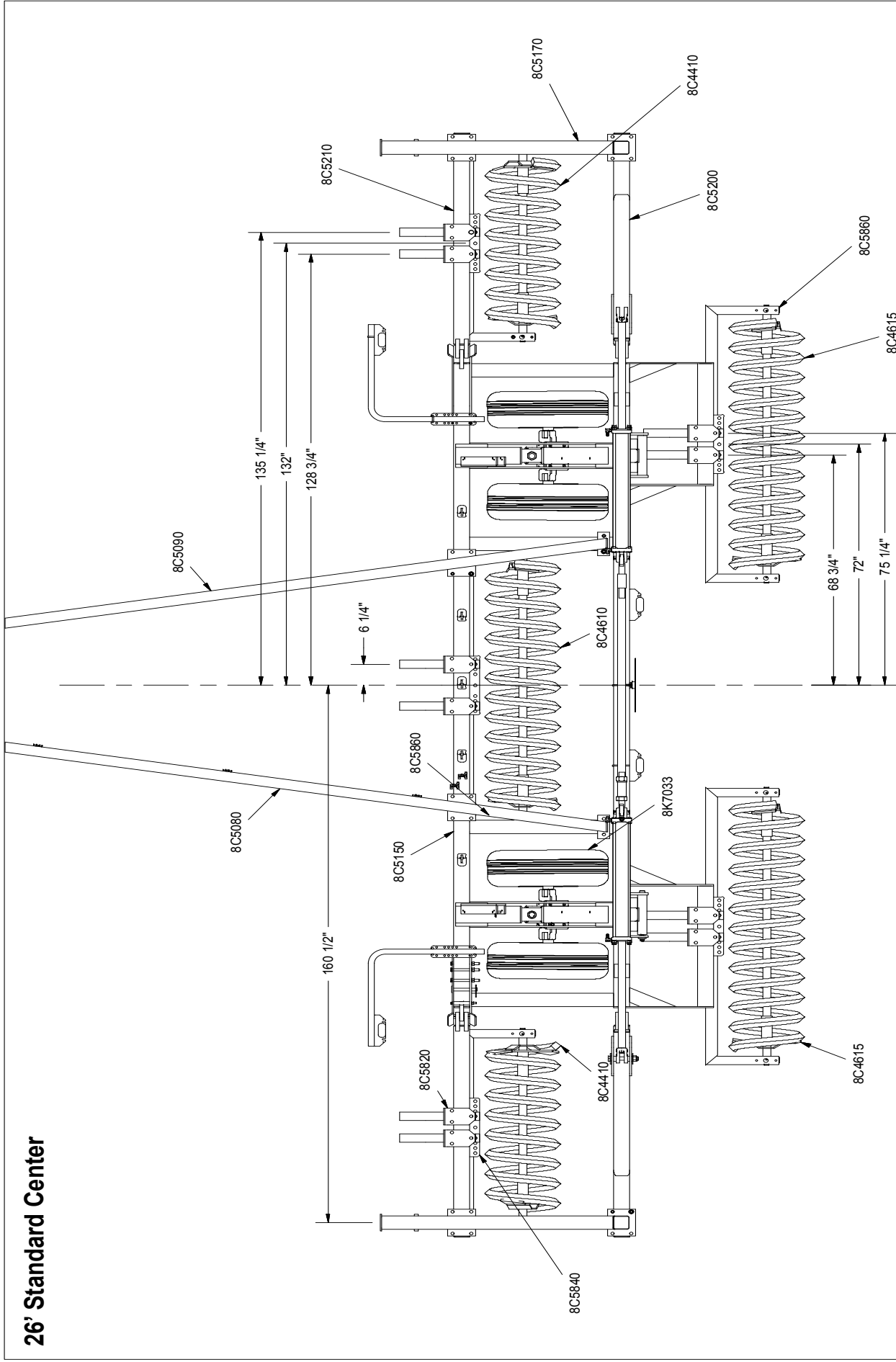
SECTION 2 - ASSEMBLY

30' Narrow Center



SECTION 2 - ASSEMBLY

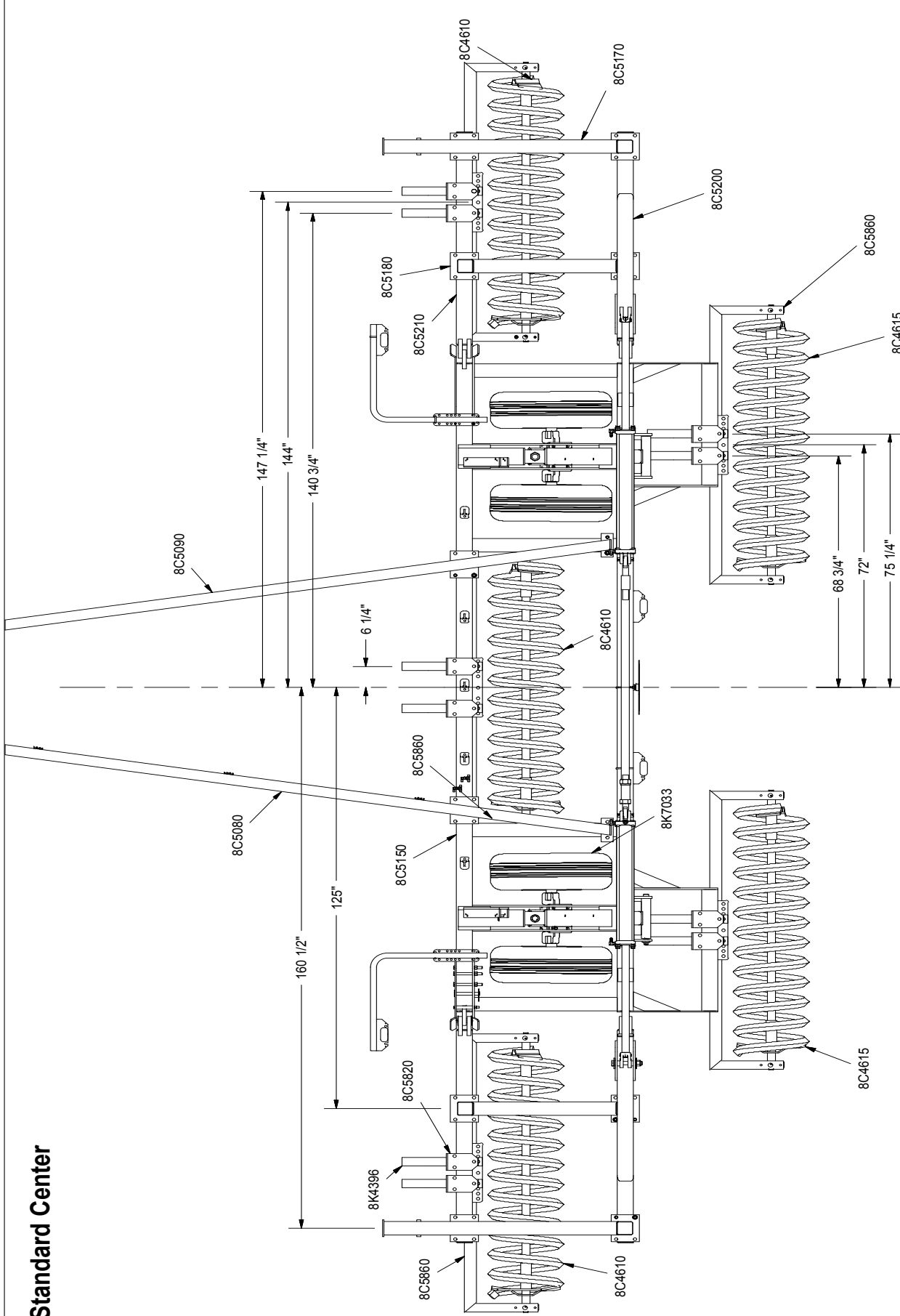
26' Standard Center





SECTION 2 - ASSEMBLY

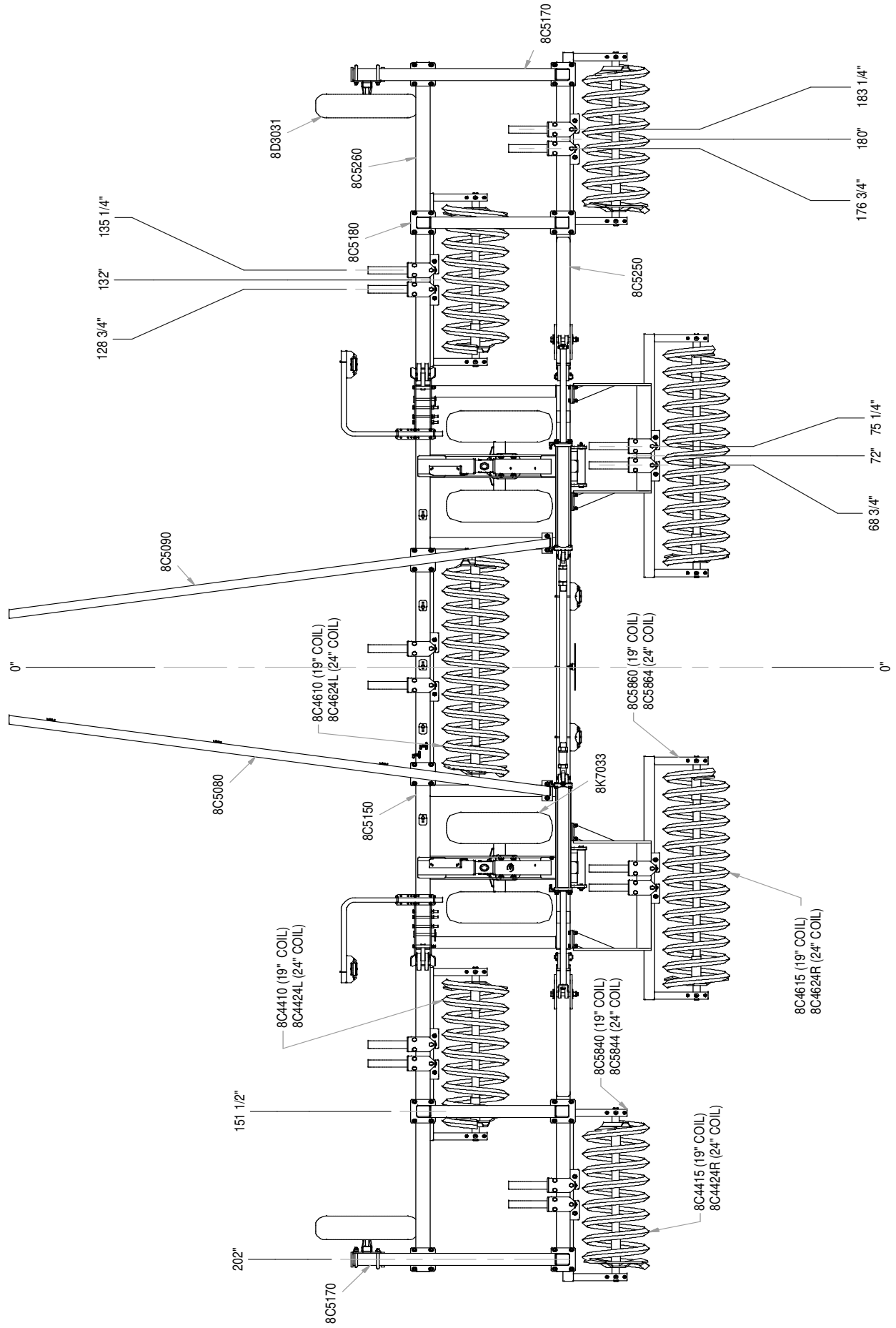
30' Standard Center





SECTION 2 - ASSEMBLY

34' Standard Center

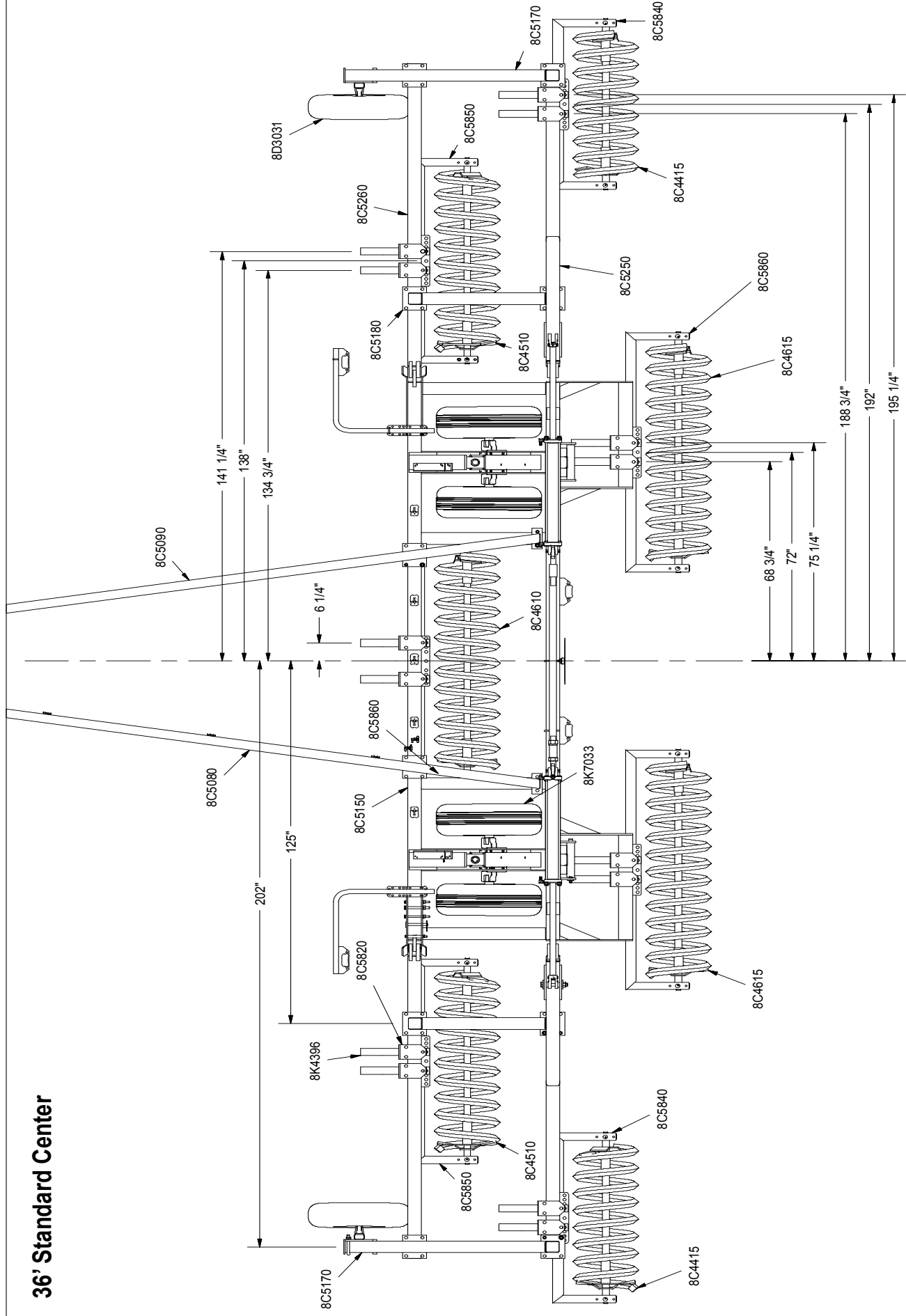


9/25/2018 9PD3475.iam/HYD FOLD COIL PCKR 34'



SECTION 2 - ASSEMBLY

36' Standard Center











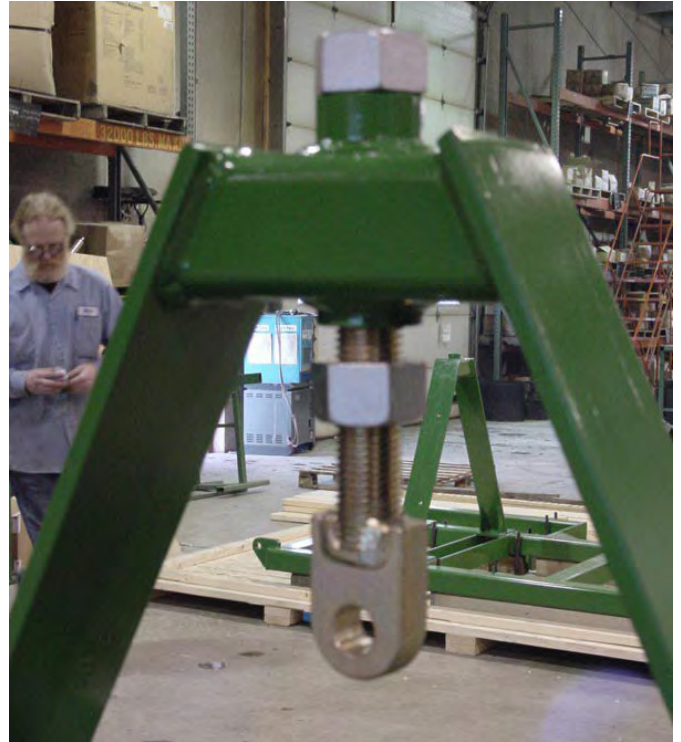
## SECTION 2 - ASSEMBLY

### HYD. FOLD PACKER ASSEMBLY - PHOTO SUPPLEMENT – 42' SHOWN

#### Center



1. Position Center Frame on supports.



2. Install main and wing lift cylinder eye bolts (middle of adjustment).



3. Install main lift cylinders.



4. Attach wing lift cylinders.

**SECTION 2 - ASSEMBLY**

**HYD. FOLD PACKER ASSEMBLY - PHOTO SUPPLEMENT – 42' SHOWN**



5. Install Center Lift Arms and secure Pivot Pin with bolt, washer and lock nut.



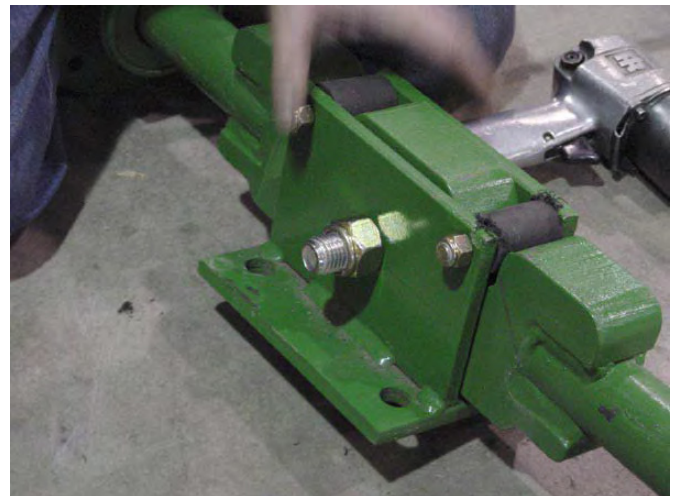
6. Assemble Walking Axles.



7. Walking Axle with Pivot Bolt.



8. Install pivot dampeners.



9. Tighten Walking Axle hardware.

## SECTION 2 - ASSEMBLY

### HYD. FOLD PACKER ASSEMBLY - PHOTO SUPPLEMENT – 42' SHOWN



10. Connect rod end of main lift cylinder.



11. Position Walking Axle assembly.



12. Secure Walking Axle to Lift Arm.



13. Walking Axle Assembly installed.

### Wings



14. Connect rear Wings to Center.



15. Install wing pivot pins, secure with roll pins.



**SECTION 2 - ASSEMBLY**

**HYD. FOLD PACKER ASSEMBLY - PHOTO SUPPLEMENT – 42' SHOWN**



16. Connect from Wings to Center.



17. Left hand Wings attached.



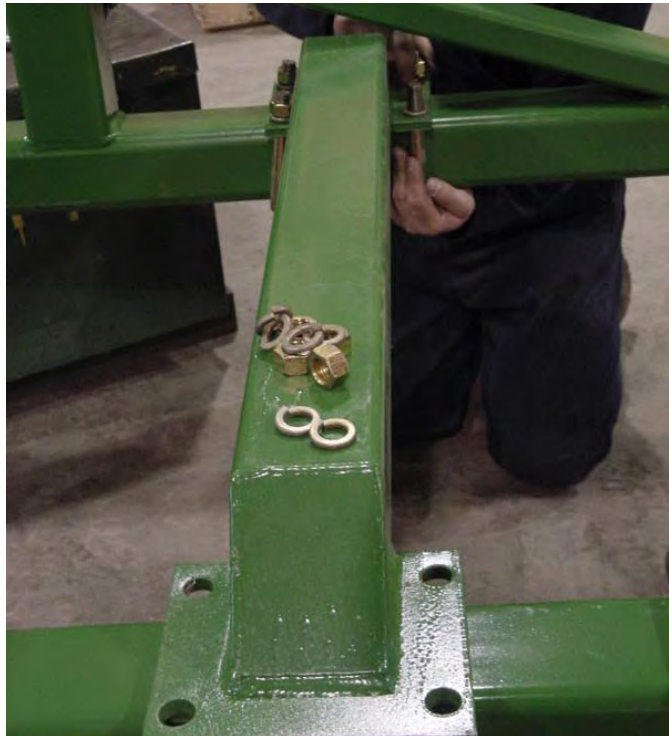
18. Left hand Wings leveled for further assembly.



19. Rear view left hand Wings with Cross Brace.



20. Outside Cross Brace.



21. Inside Cross Brace.

**SECTION 2 - ASSEMBLY**

**HYD. FOLD PACKER ASSEMBLY - PHOTO SUPPLEMENT – 42' SHOWN**



22. Secure Cross Braces.



23. Outside Cross Brace.



24. Align Wings with Center, tighten u-bolts.



25. Install Wing Axle.



26. Left hand Wing Axle installed.

Right hand Wing Axle installed.



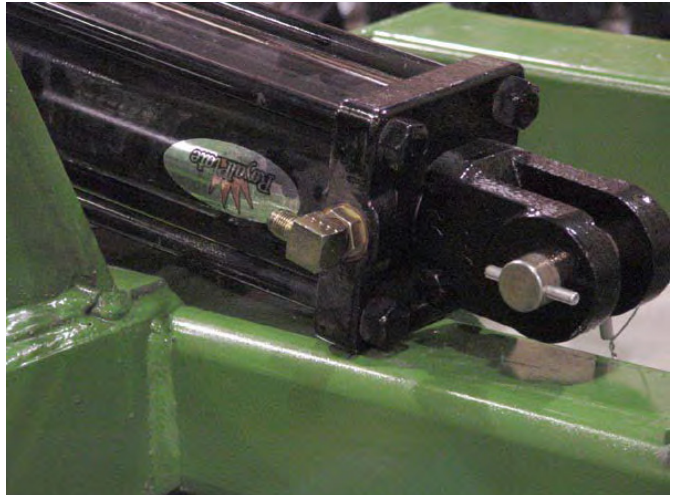
**SECTION 2 - ASSEMBLY**

**HYD. FOLD PACKER ASSEMBLY - PHOTO SUPPLEMENT – 42' SHOWN**

**Hydraulic**



27. Base End Wing Lift Cylinder.



28. Rod End Wing Lift Cylinder.



29. Base End Main Lift Cylinder.



30. Rod End Main Cylinder.

## SECTION 2 - ASSEMBLY

### HYD. FOLD PACKER ASSEMBLY - PHOTO SUPPLEMENT – 42' SHOWN

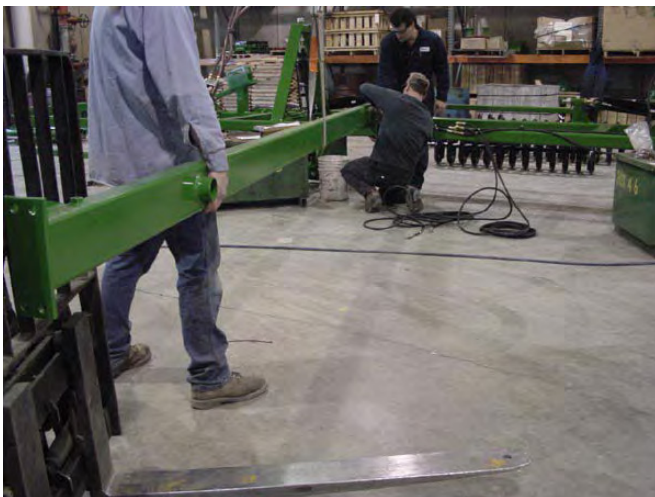


30a. Rod End Main Cylinder.



31. Hydraulic hose - Main and Wing Cylinders.

### Hitch Tubes



32. Install Hitch Tubes.



33. Attach Hitch Tubes to Center.



34. Attach Hitch Tubes to Center.



35. Rear u-bolt installed.

**SECTION 2 - ASSEMBLY**

**HYD. FOLD PACKER ASSEMBLY - PHOTO SUPPLEMENT – 42' SHOWN**



36. Front View.



37. Install Hitch Extension.



37. Install Hitch Extension.



38. Hose and Hydraulic Tip Holder.



39. Install Hitch.

## SECTION 2 - ASSEMBLY

### HYD. FOLD PACKER ASSEMBLY - PHOTO SUPPLEMENT – 42' SHOWN

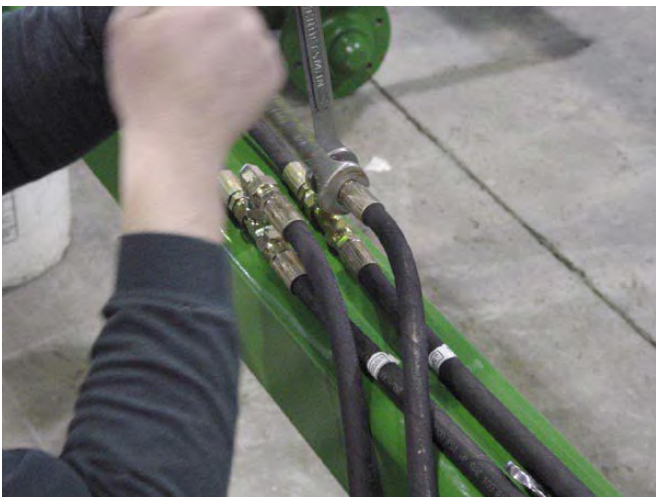
#### Hydraulic Hoses to Tractor & Tires



40. Pre-assemble front center fittings.



41. Front Center hose layout.



42. Tighten all hydraulic fittings.



43. Route hoses forward, secure with clamps.



43a. Install tires.



**SECTION 2 - ASSEMBLY**

**HYD. FOLD PACKER ASSEMBLY - PHOTO SUPPLEMENT – 42' SHOWN**

**Charge Hydraulic System**



44a. Extend and retract wing lift cylinders.



44b. Attach rod end of wing lift cylinders.



44c. Raise wings.



45. Adjust eye bolts so Wing rests on Center.



46. Tighten Wing Lift Cylinder eye bolts (above).



46. Tighten Main Lift Cylinder eye bolts (right).

**SECTION 2 - ASSEMBLY**

**HYD. FOLD PACKER ASSEMBLY - PHOTO SUPPLEMENT – 42' SHOWN**

**C-Shanks**



47. Mark frame using layout drawing, located clamps.



48. Install clamps.



49. Install C-Shanks.



50. Tighten C-Shank mounting hardware.



**SECTION 2 - ASSEMBLY**

**HYD. FOLD PACKER ASSEMBLY - PHOTO SUPPLEMENT – 42' SHOWN**

**Coils**



51. Lay out Coils and Pull Frames.



52. Identify Left and Right Hand Coils by comparing to bolt heads.



53. Bearing installed with snap ring.



54. Pre-assembly of 1/2" nuts on bearing attach u-bolt.



55. Bearing attached to Pull Frame.

**SECTION 2 - ASSEMBLY**

**HYD. FOLD PACKER ASSEMBLY - PHOTO SUPPLEMENT – 42' SHOWN**



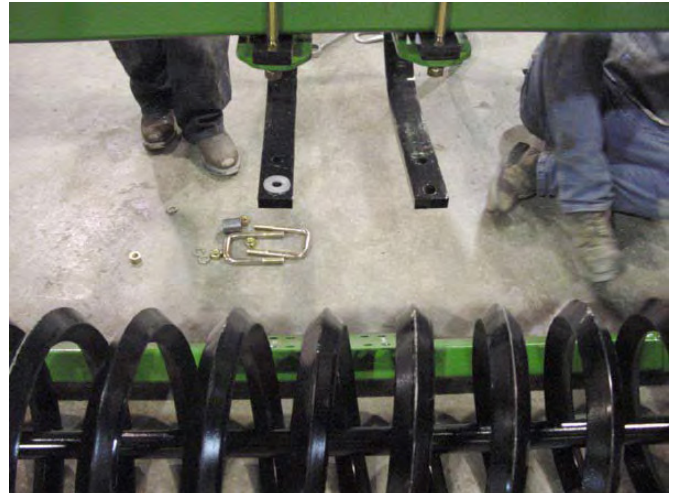
55. Pre-assembled Coil with Pull Frame - Tighten all hardware.



57. Center Coil and tighten set screws in bearings.



58. Roll Coil assemblies into position.



59. Position Coils.



12-1/2" C-C

60. Attach Pull Frames to C-Shanks, center mount shown.



9-1/2" C-C

61. 9-1/2 inch Center to Center C-Shank spacing, offset mount shown.

**SECTION 2 - ASSEMBLY**

**HYD. FOLD PACKER ASSEMBLY - PHOTO SUPPLEMENT – 42' SHOWN**



9-1/2" C-C | Offset

62. Assemble SMV Sign onto spade.

**SMV Sign**



63. Install SMV Sign.



64. Install Wing Transport Lock (Not used on 5 Section).

**Safety Lights**



65. Front receiver.



**SECTION 2 - ASSEMBLY**

**HYD. FOLD PACKER ASSEMBLY - PHOTO SUPPLEMENT – 42' SHOWN**



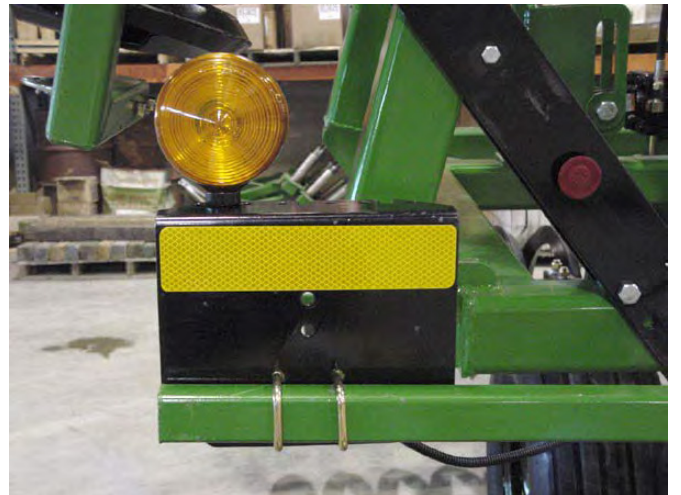
67. Mounting flat.



68. Extension tube.



69. Mounting light bracket.



70. Front Right Amber Light installed.



71. Rear Red Light installed.

**SECTION 2 - ASSEMBLY**

**HYD. FOLD PACKER ASSEMBLY - PHOTO SUPPLEMENT – 42' SHOWN**

**Main Lift Transport Locks**



72. Installed.



73. Storage position.

**42. Hydraulic Fold Packer Drawbar**

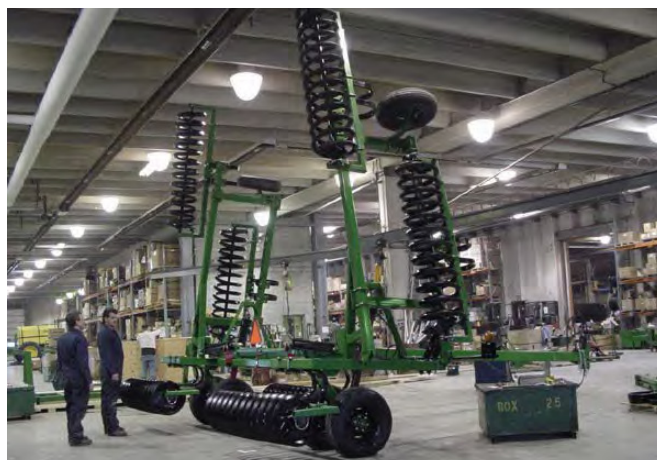


74. Front View

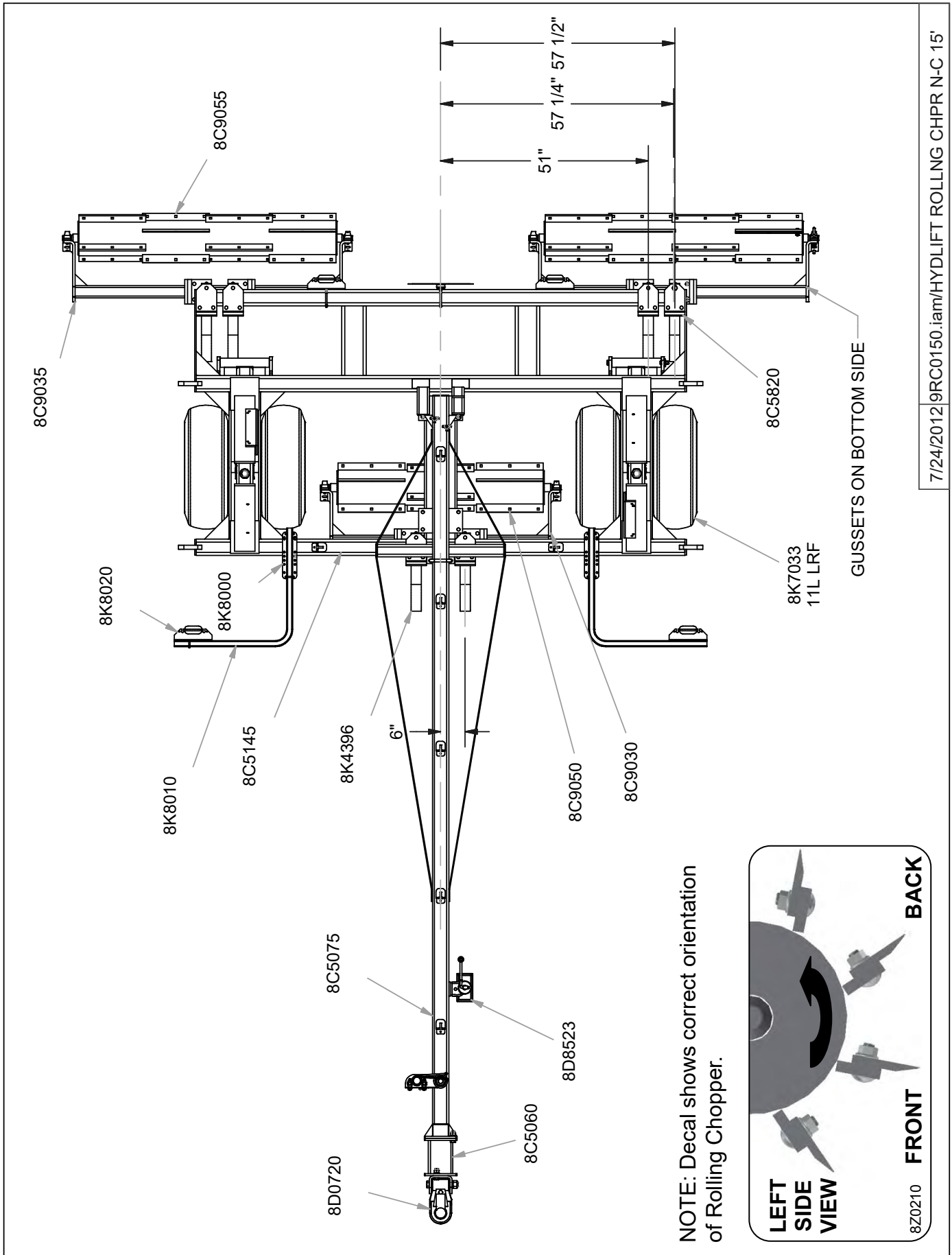


75. Front Left View.

76. Rear Right View.

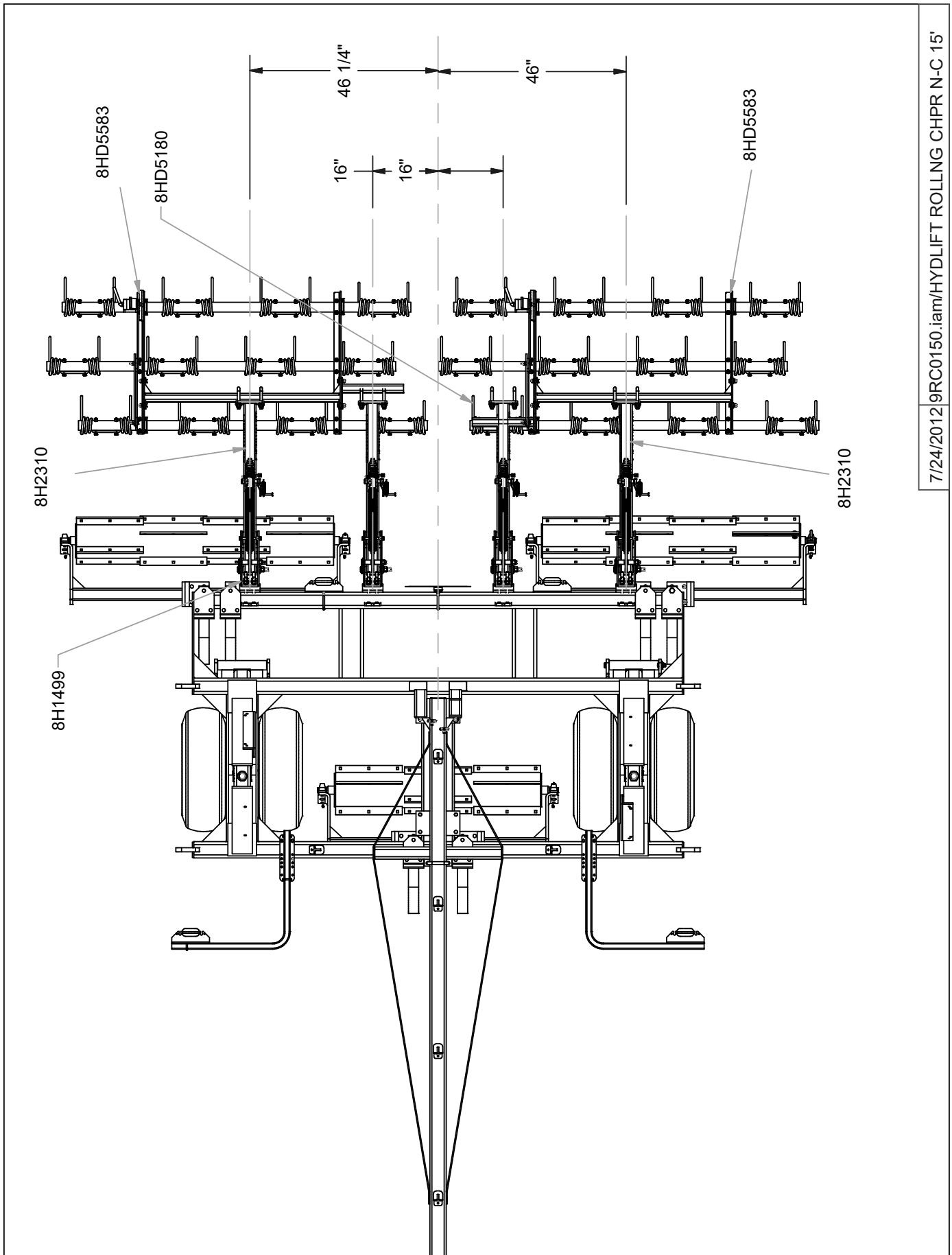


# SECTION 2 - ASSEMBLY

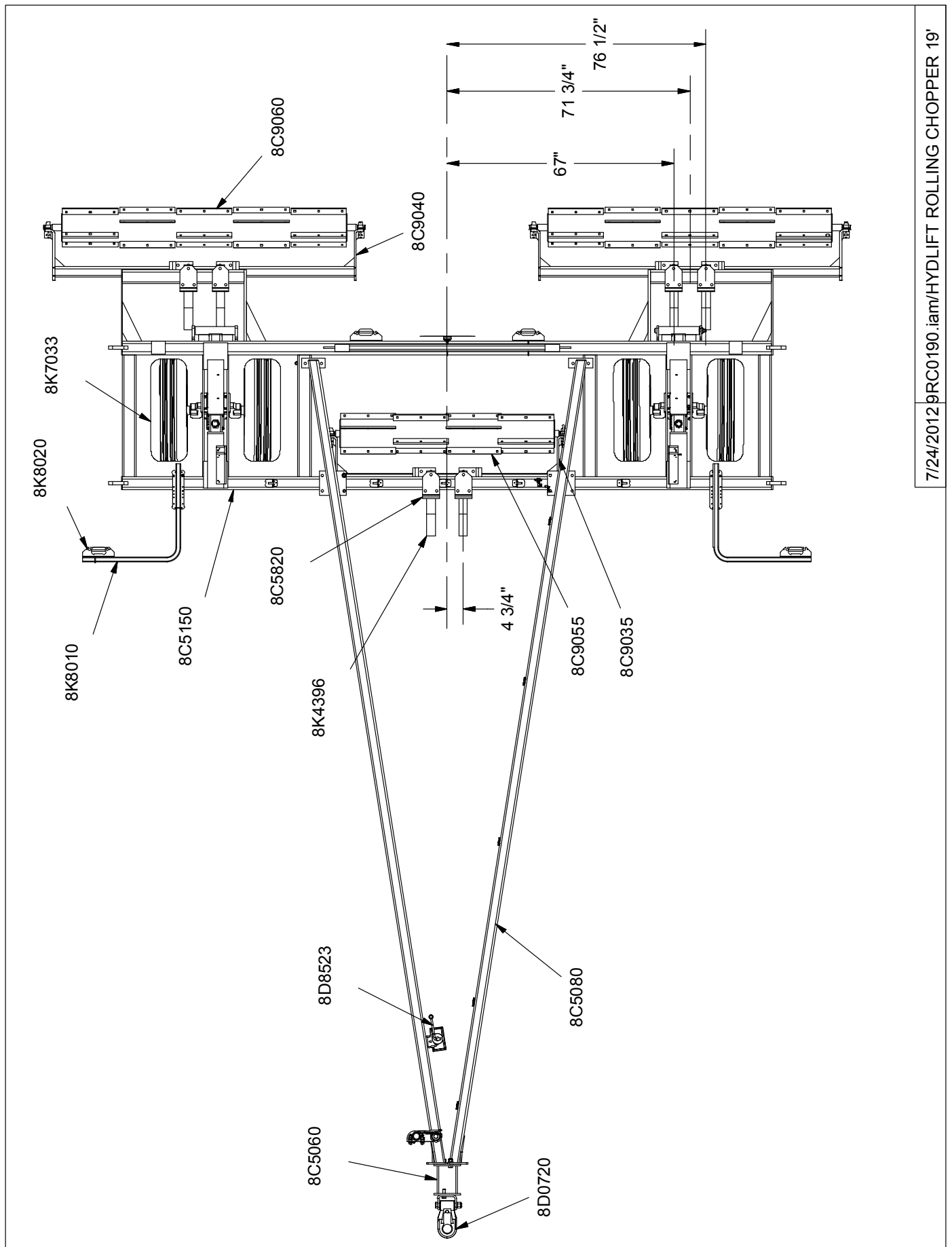


7/24/2012 9RC0150.iam/HYDLIFT ROLLING CHPR N-C 15'

SECTION 2 - ASSEMBLY



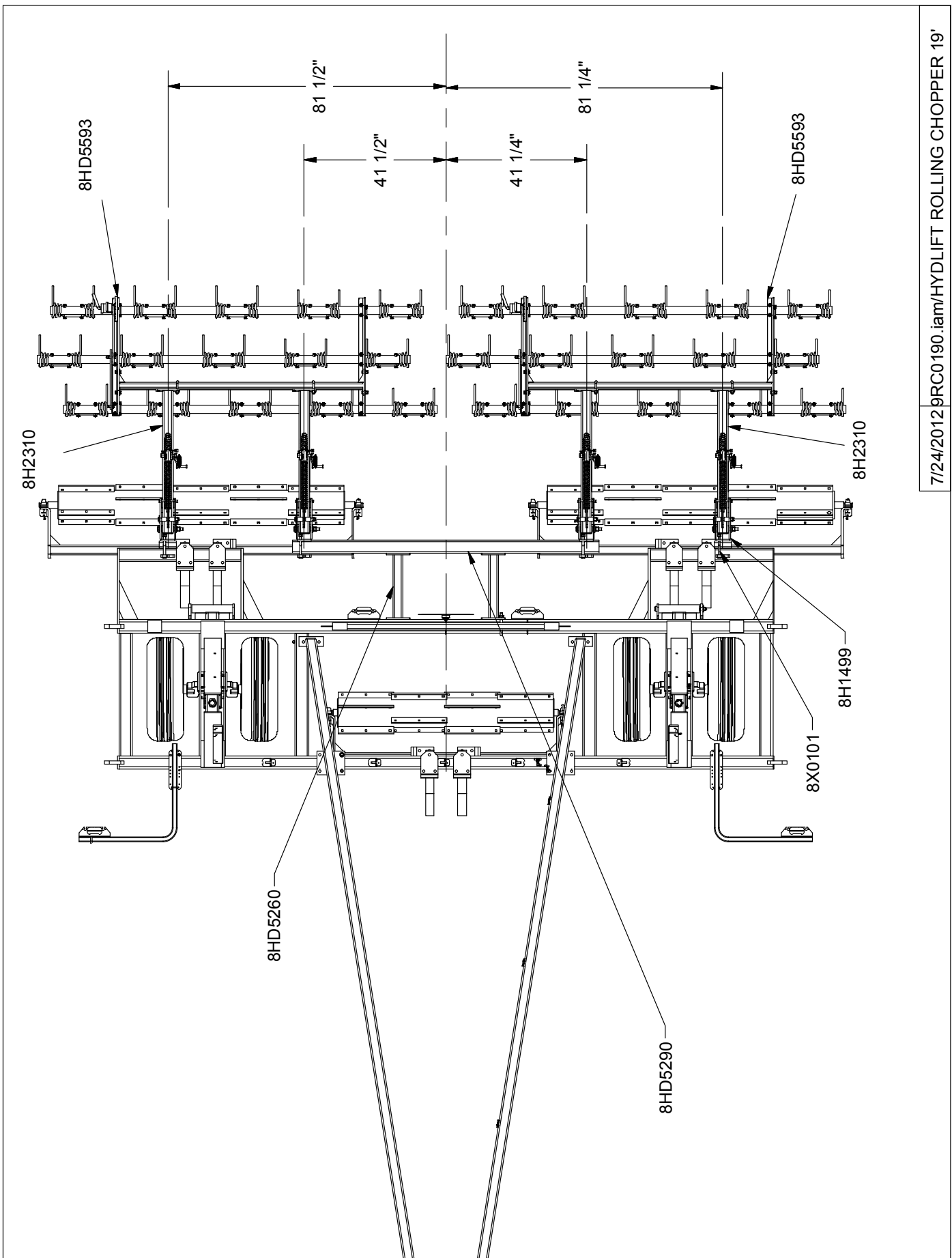
SECTION 2 - ASSEMBLY



7/24/2012 9RC0190.iam/HYDLIFT ROLLING CHOPPER 19'

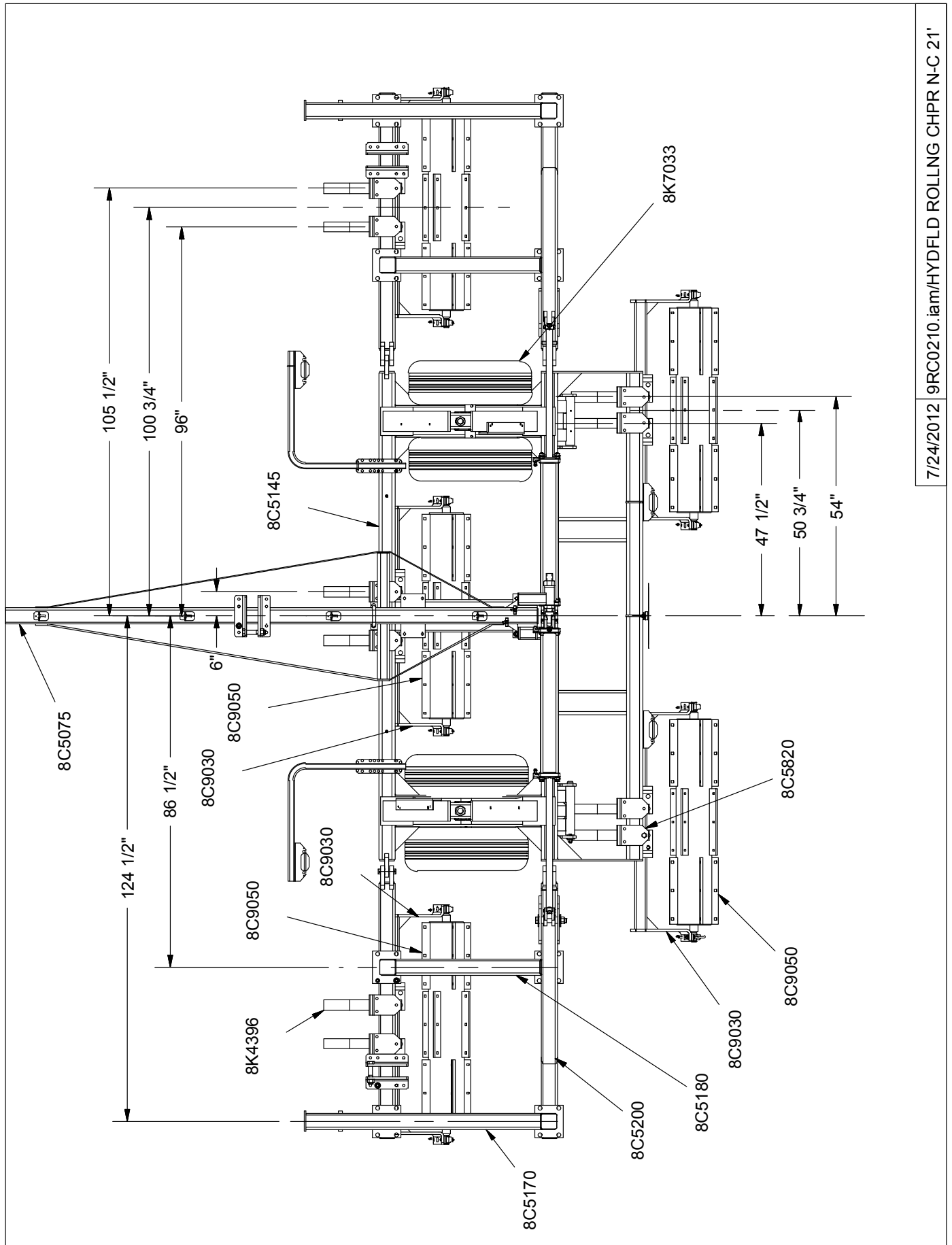


SECTION 2 - ASSEMBLY



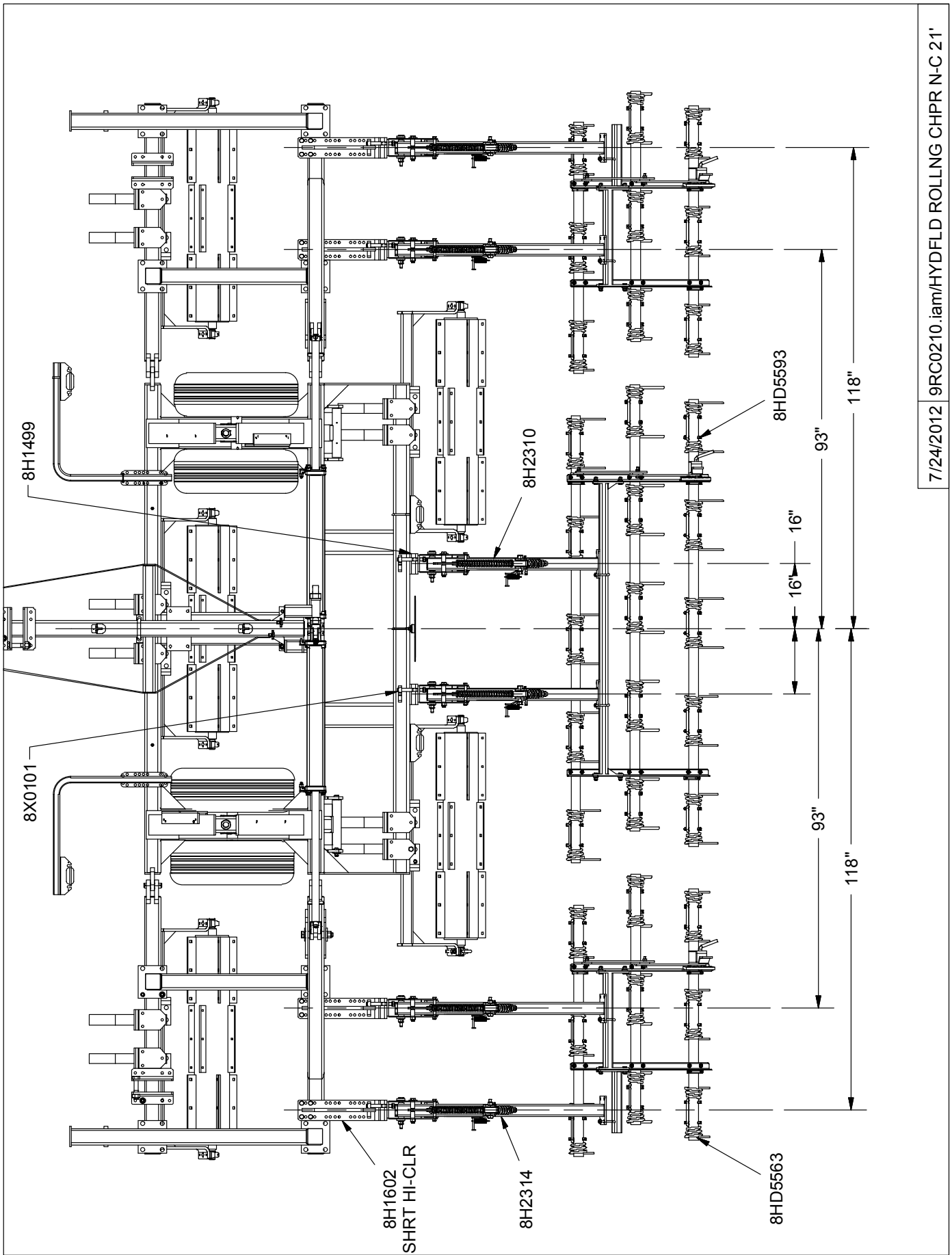
7/24/2012 9RC0190.iam/HYDLIFT ROLLING CHOPPER 19'

SECTION 2 - ASSEMBLY

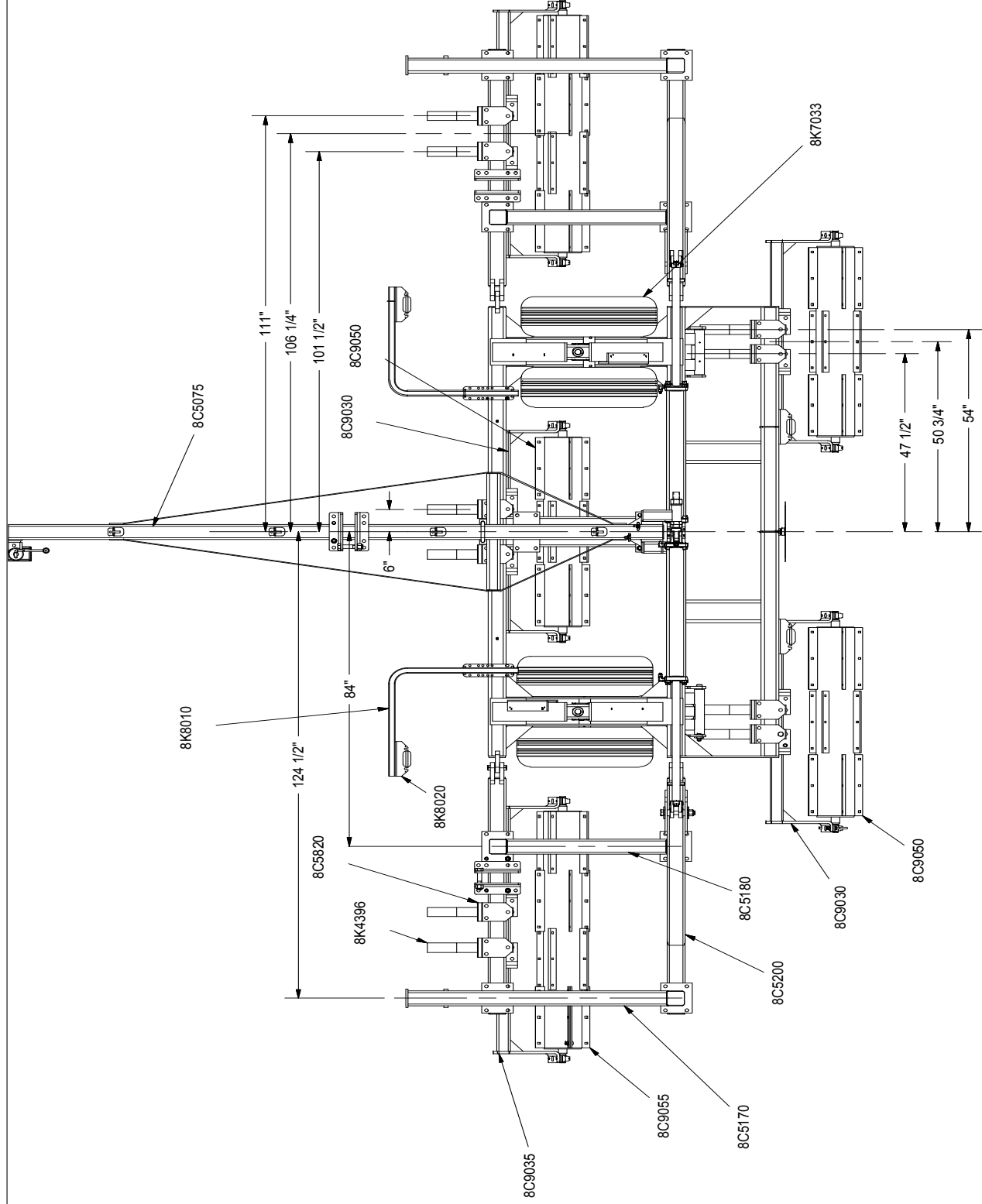


7/24/2012 9RC0210.iam/HYDFLD ROLLING CHPR N-C 21'

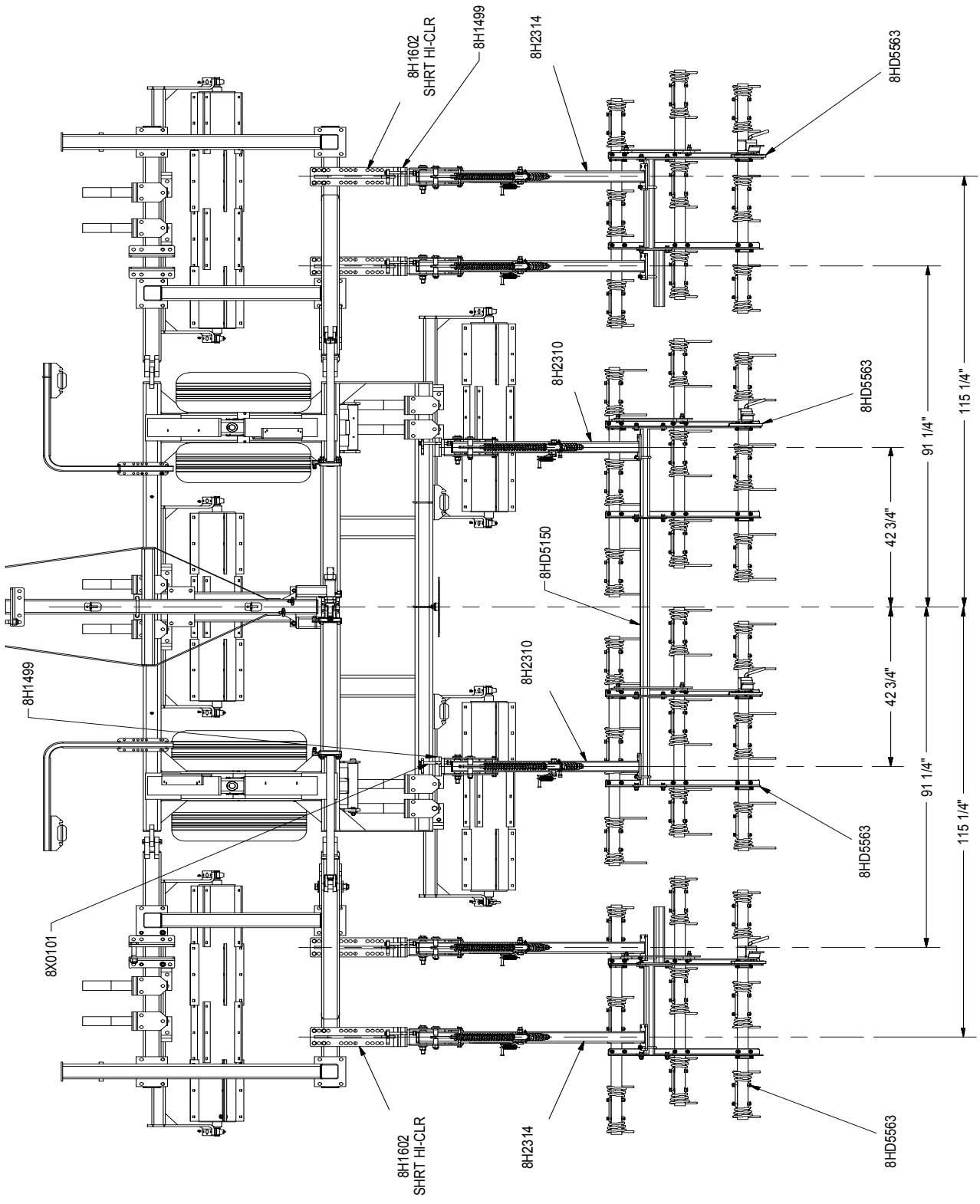
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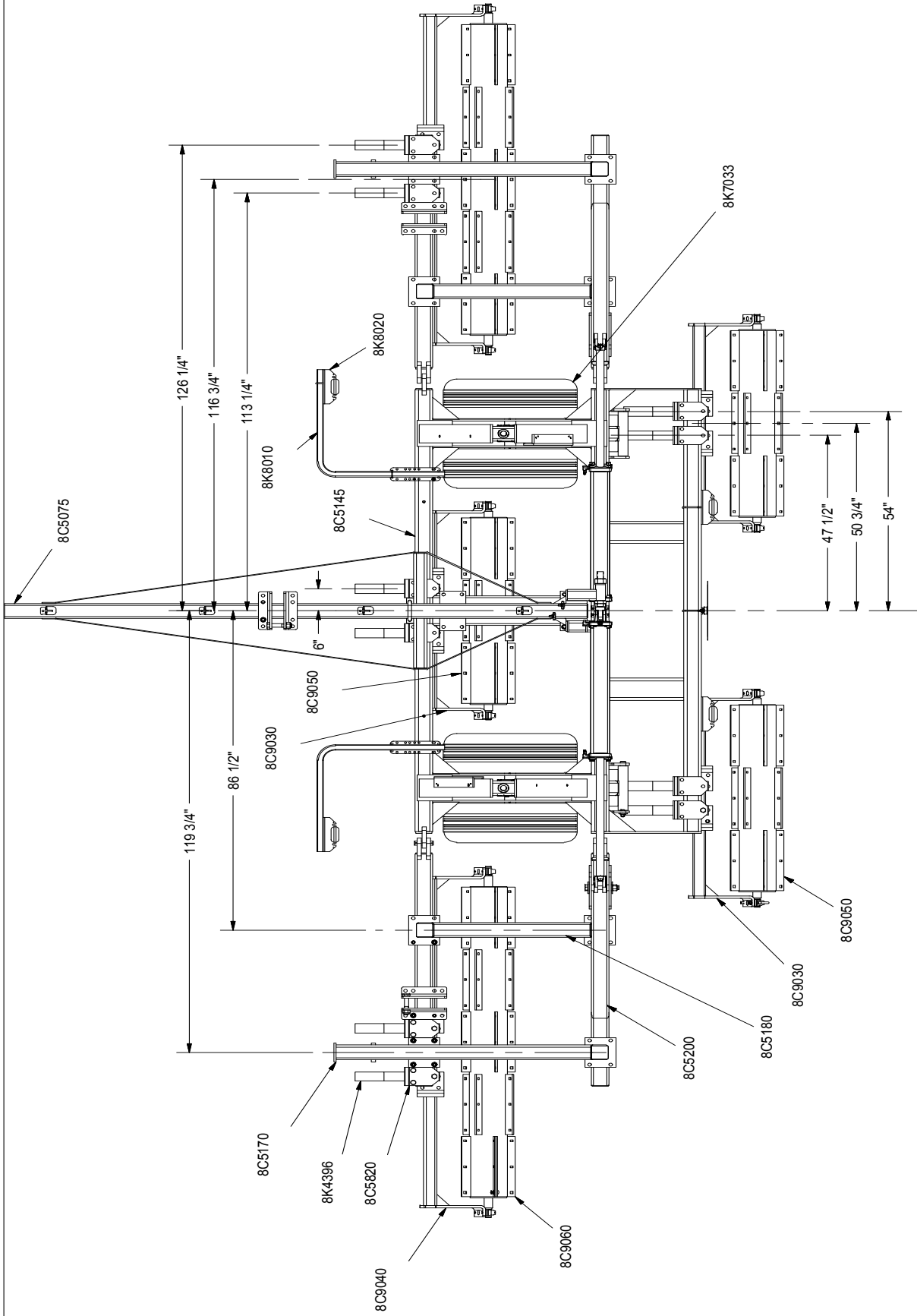
SECTION 2 - ASSEMBLY



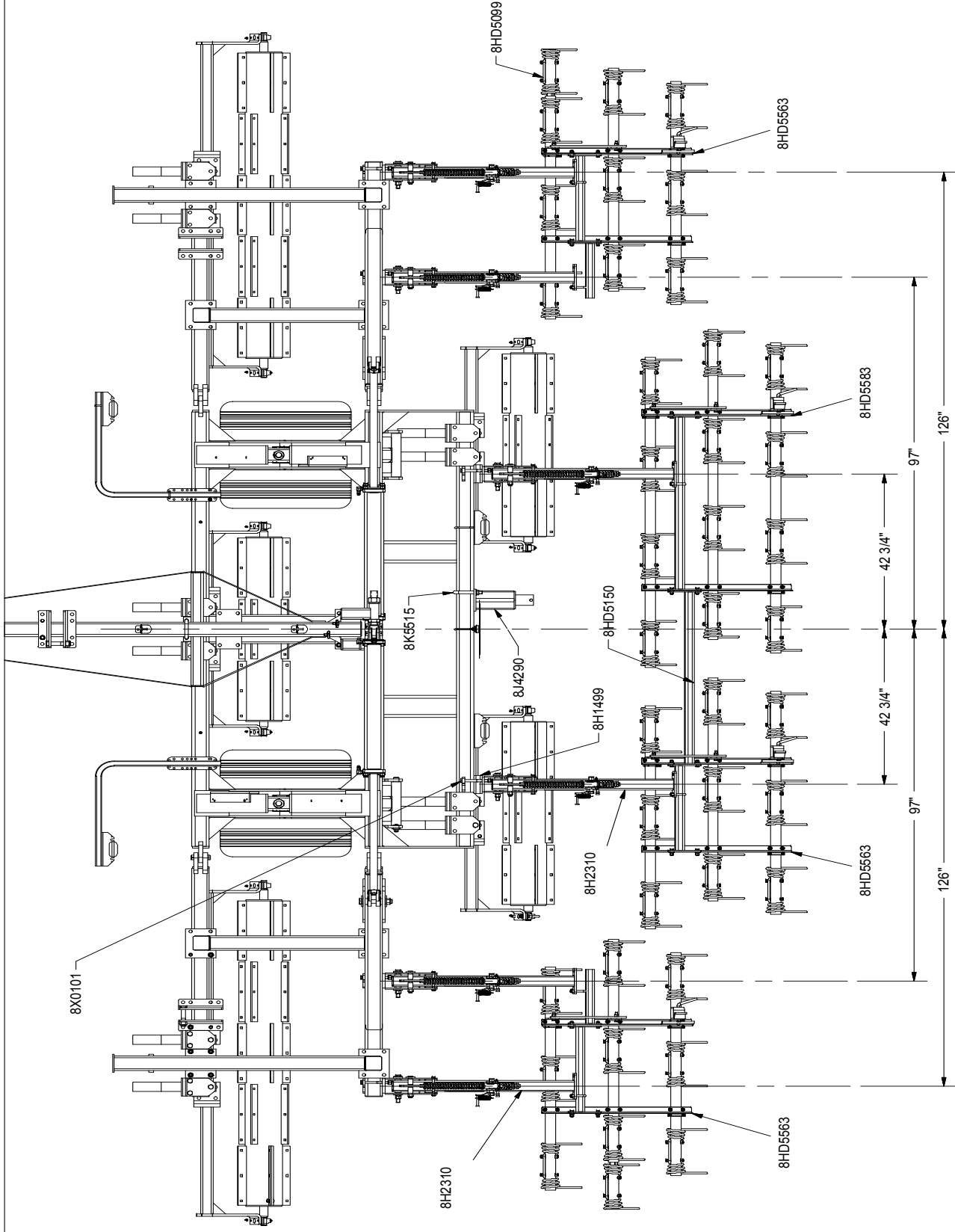
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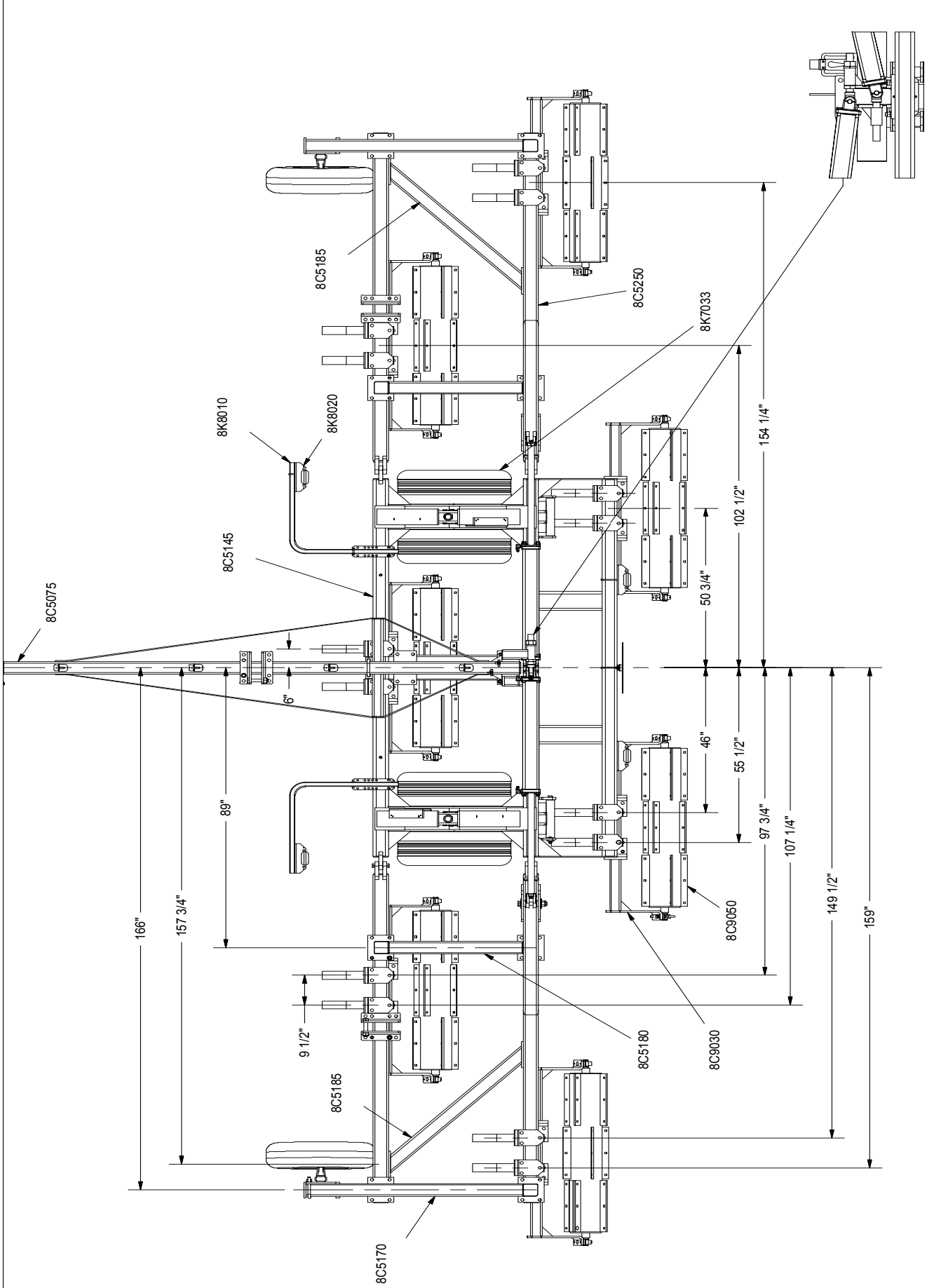
SECTION 2 - ASSEMBLY



SECTION 2 - ASSEMBLY

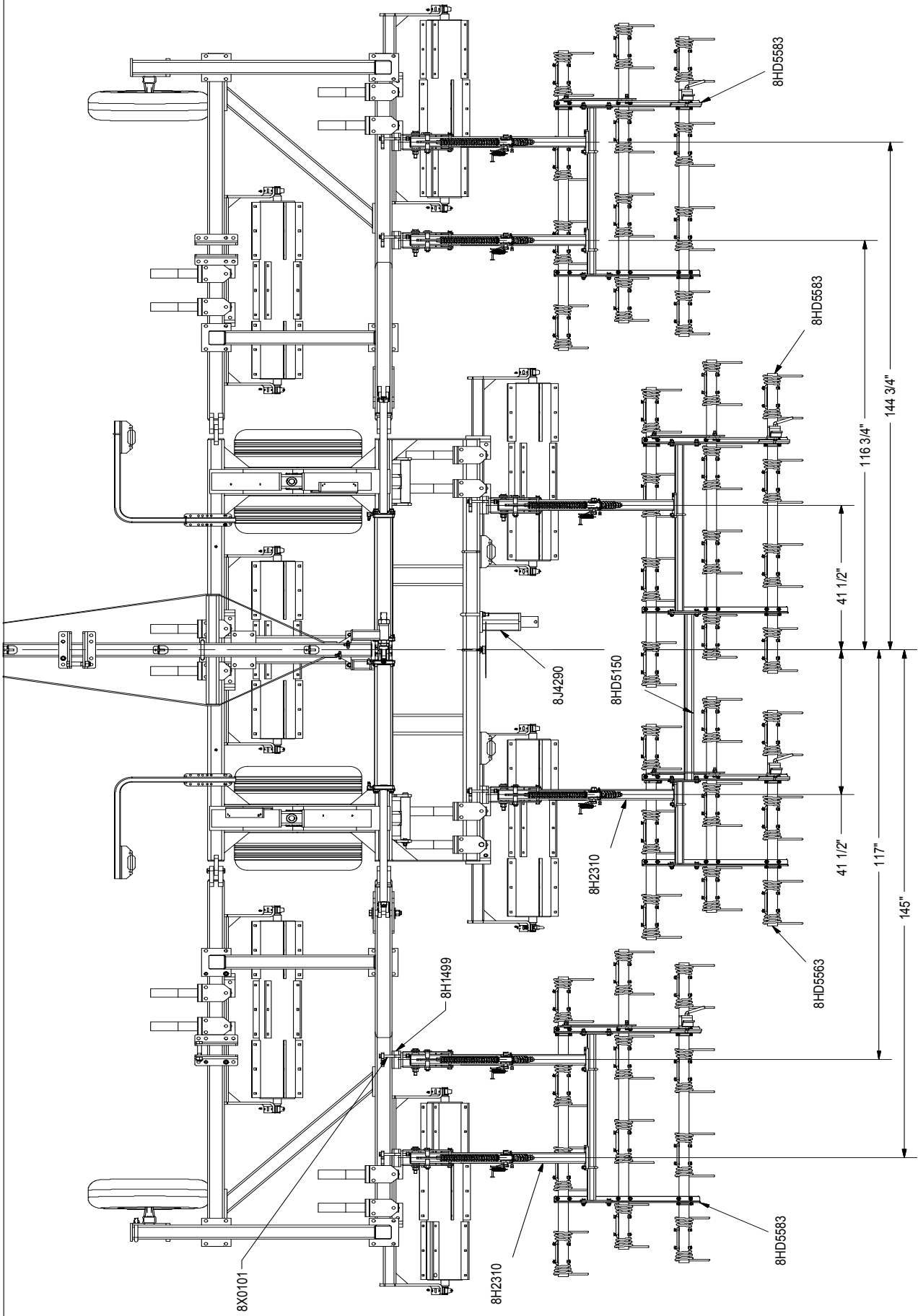


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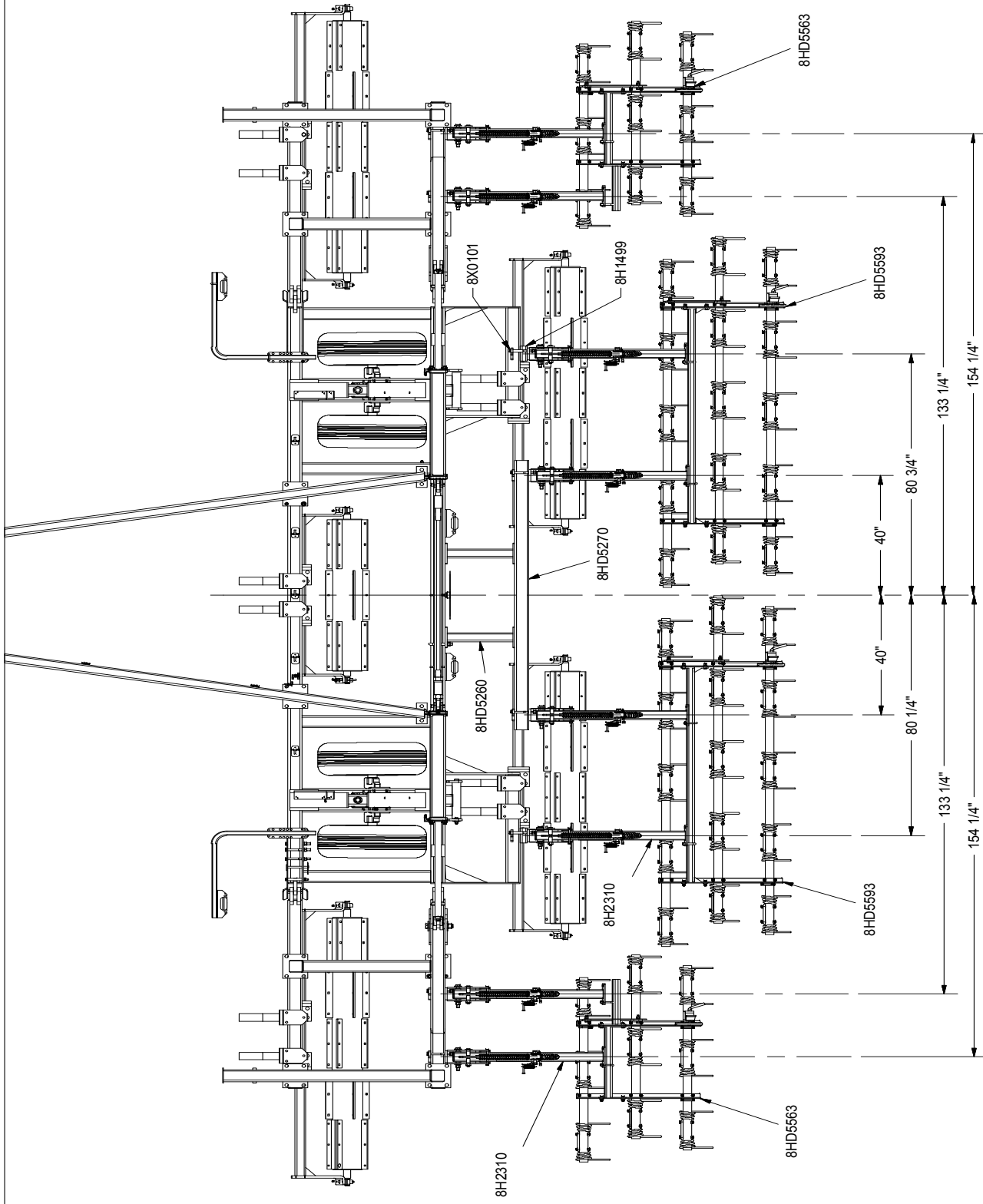


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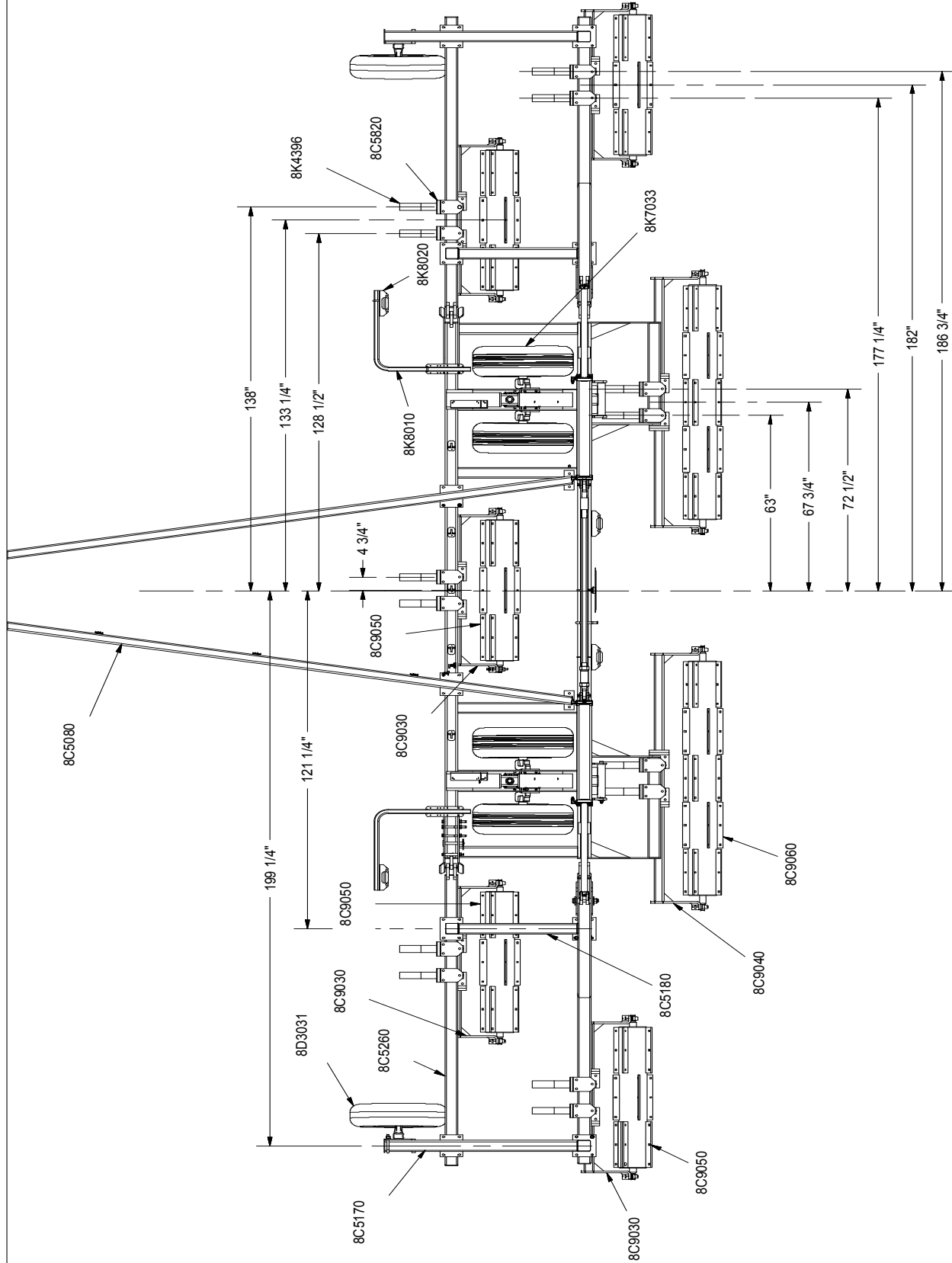




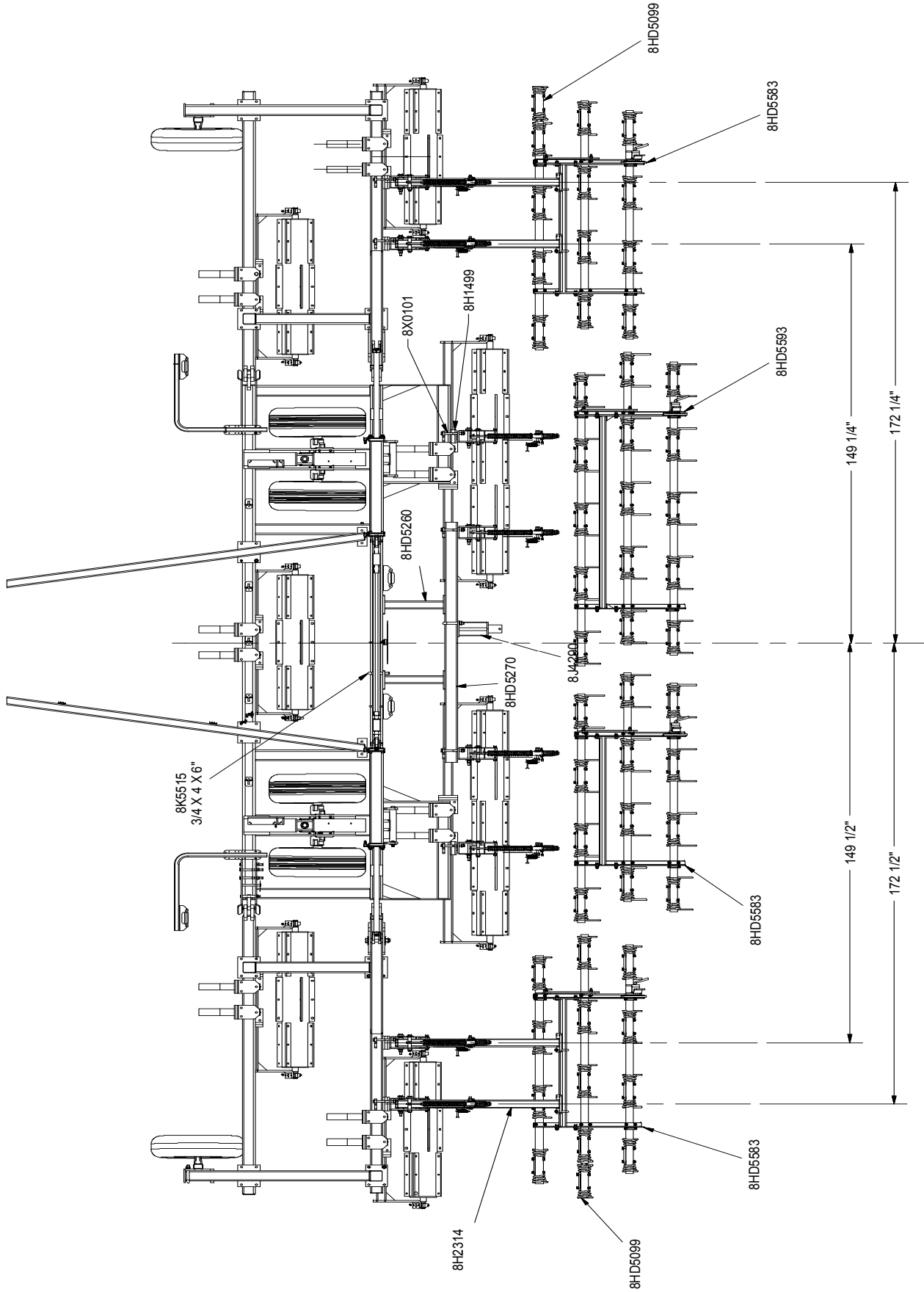
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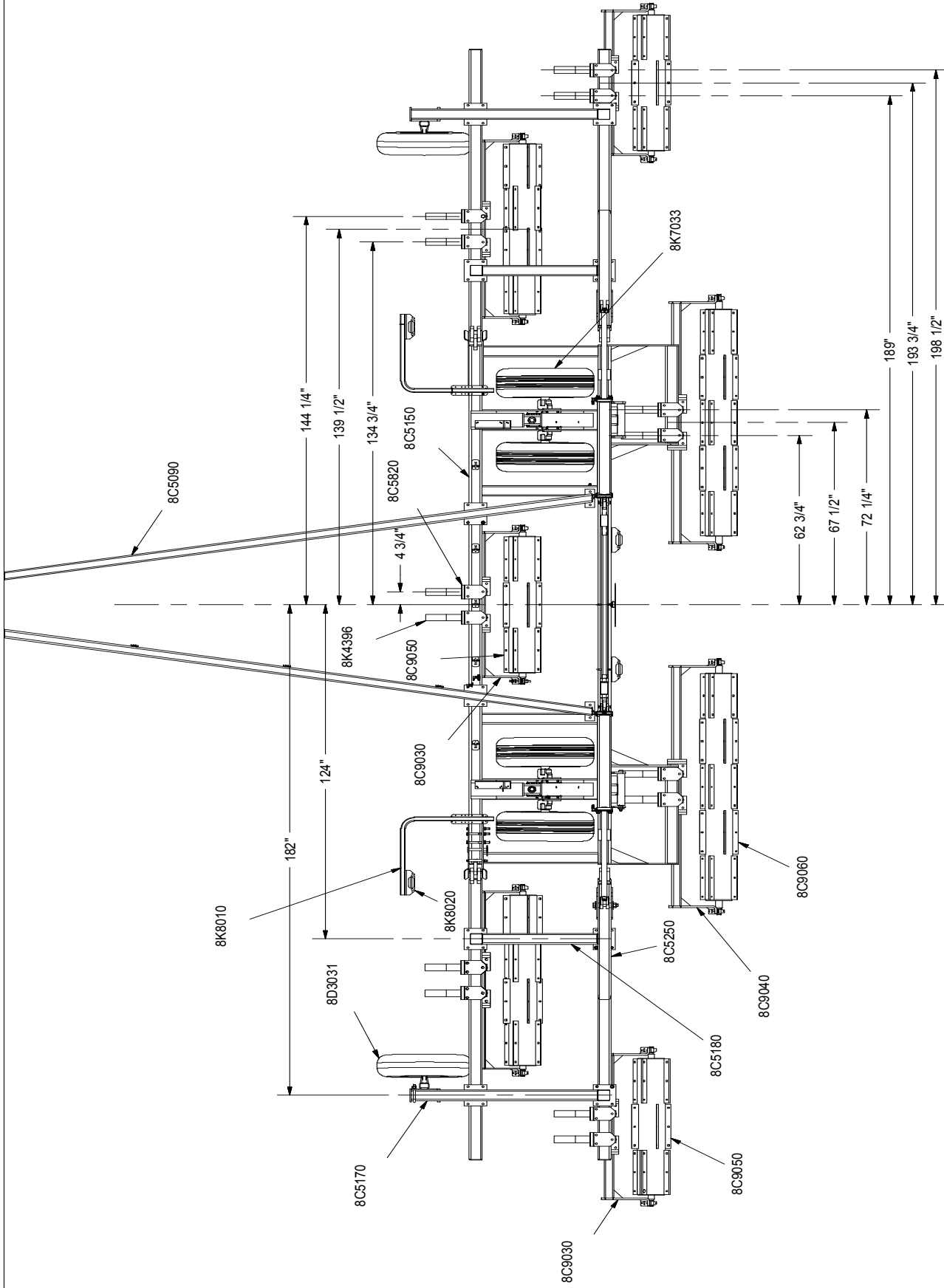
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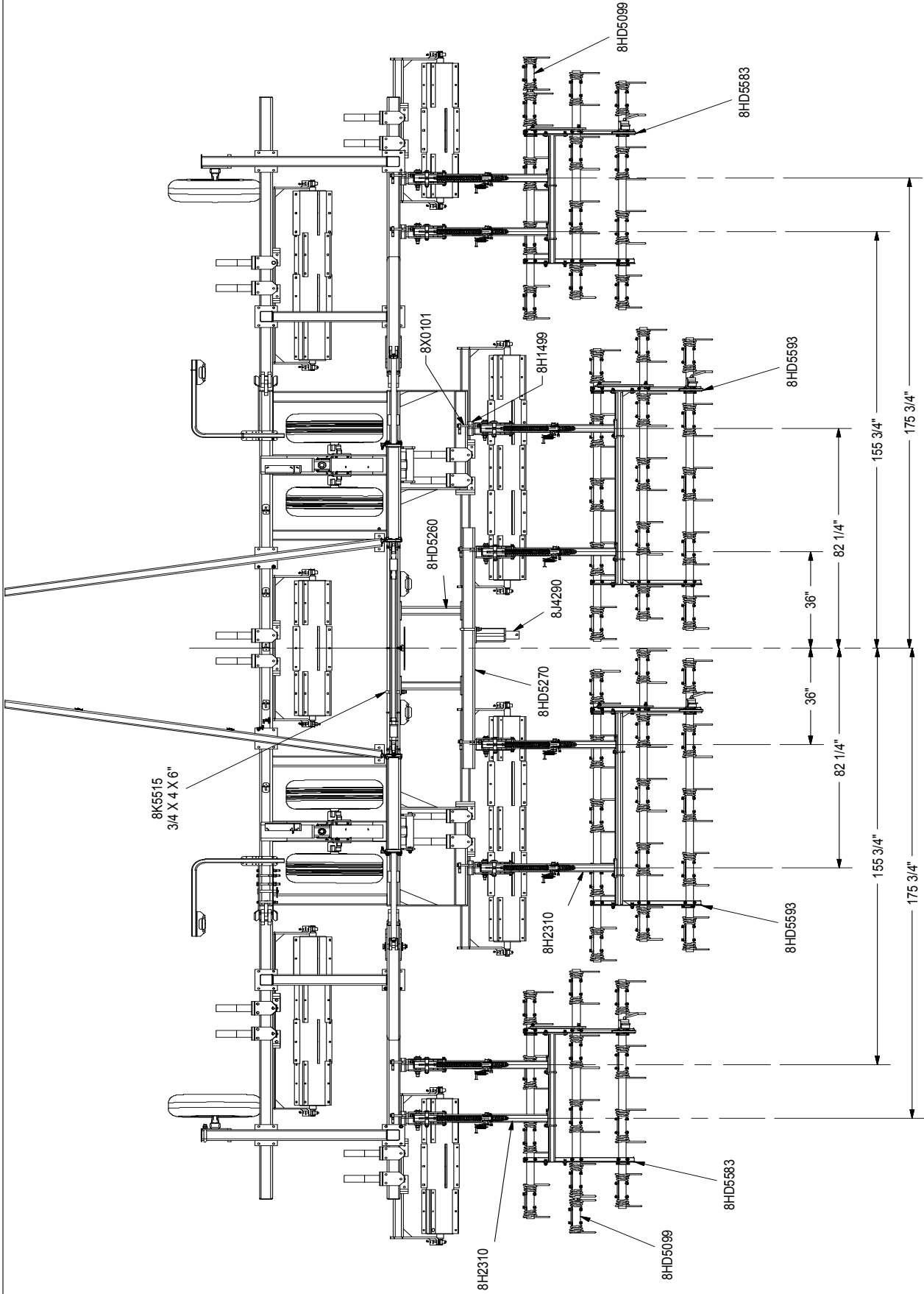
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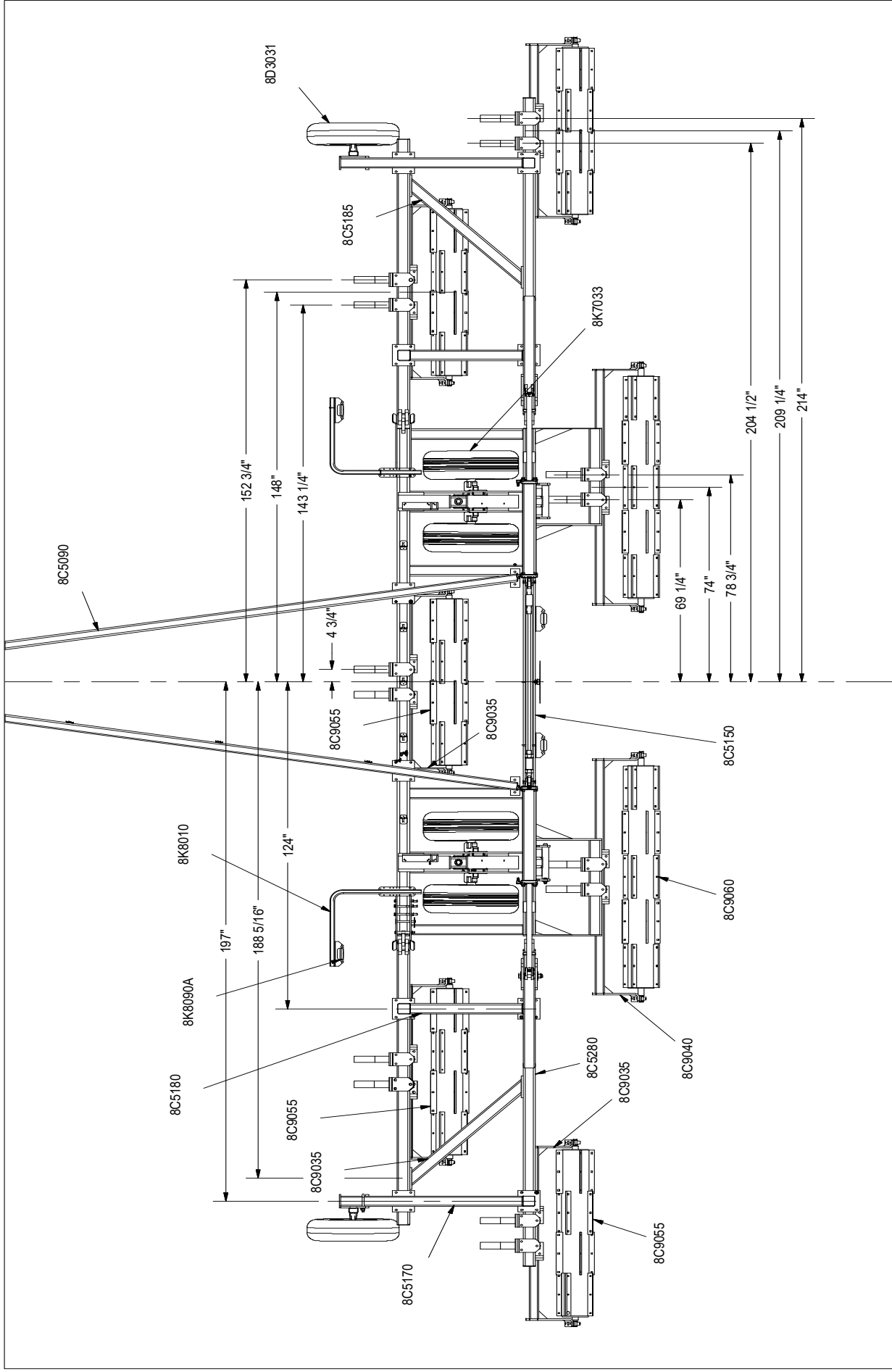
SECTION 2 - ASSEMBLY



SECTION 2 - ASSEMBLY

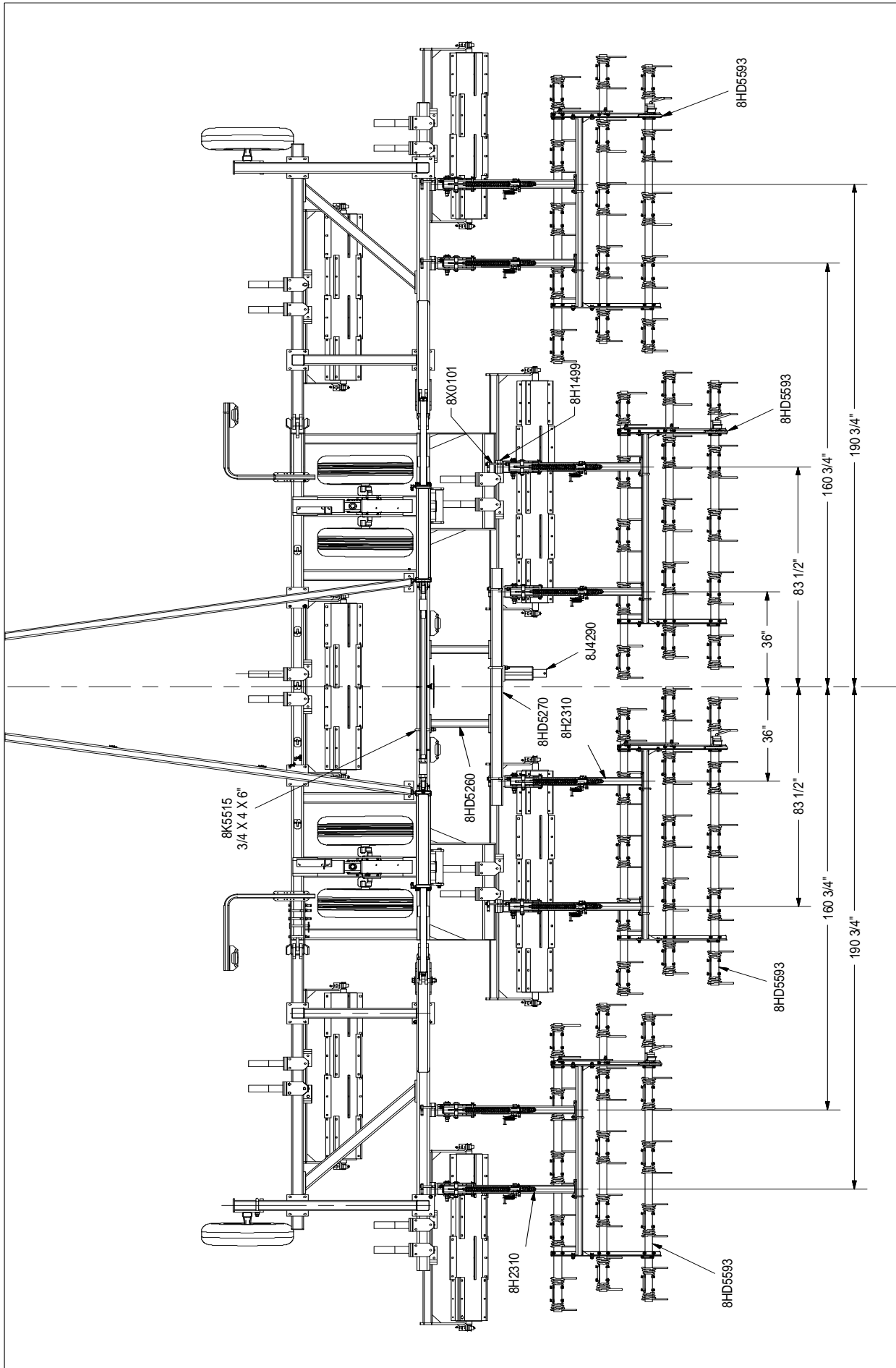


SECTION 2 - ASSEMBLY





SECTION 2 - ASSEMBLY

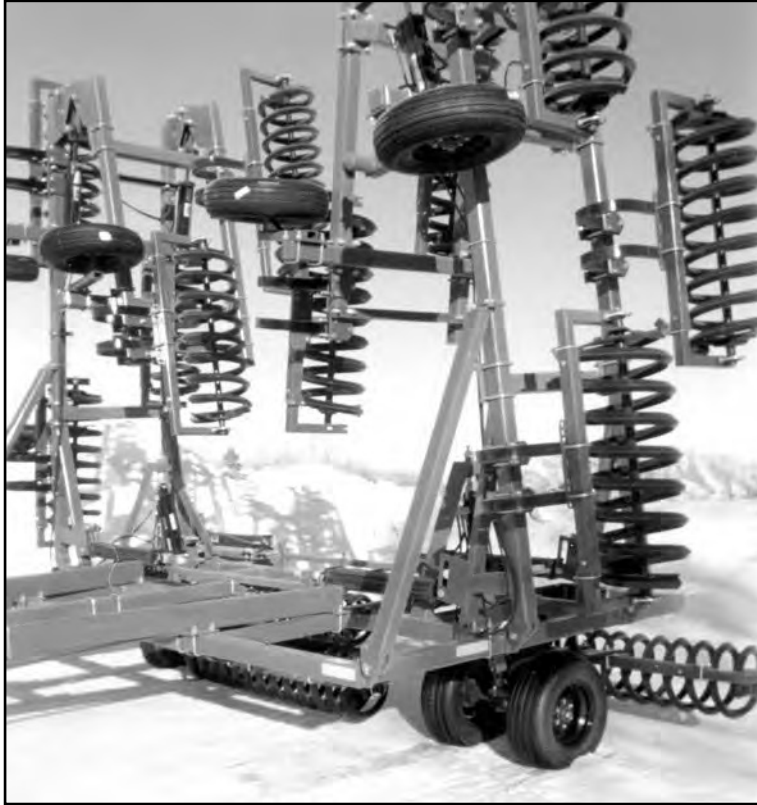






## SECTION 2 - ASSEMBLY

### SET-UP INSTRUCTIONS – 46' to 66' HYDRAULIC FOLD IMPLEMENT



Refer to illustrations on following pages and follow these steps when assembling a 46' to 66' Summers Hydraulic Fold Coil Packer or Hydraulic Fold Rolling Chopper. The machine should be placed in a firm, level area that allows ample room for assembly in field position.



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

#### **CENTER ASSEMBLY**

Place Packer drawbar center section on stable supports approximately 2-1/2 ft. off floor. Install cylinder attach Eye Bolts (8K1682C). Set Eye Bolts in middle of adjustment. Install hydraulic cylinders. Secure Main Lift Cylinders with 1" diameter pins and cotter pins. Secure base end of Wing Lift Cylinders (8C0432) with 1" diameter pins and roll pins. Install center wheel lift arm assemblies with 1-1/4" X 14" pins (62'-66' require 1-1/2" x 14" pins). Apply good quality Anti-Seize lubricant on pins prior to assembly. Secure with 1/2" X 1-3/4" cap screws, lock nuts and flat washers. Pre-Assemble Walking Axle assemblies. Attach Walking Axle assemblies to lift arm assemblies with 3/4" bolts, lockwashers and nuts. Install Wing Stops (8C5140) with 3/4" u-bolts as shown in following drawings.

#### **WING ASSEMBLY**

Install left and right part 1 wings. Secure with 1-1/4" diameter pins and roll pins. Connect front and rear wing sections with cross braces. Refer to coil layout drawing to determine brace locations. Secure cross braces with 3/4" u-bolts. Attach part 2 wings to part 1 wings with 1" x 5-1/2" bolts. Attach part 2 wing lift cylinders and linkage as shown on page 111. Do not attach rod end of hydraulic cylinders. Do not over tighten locknuts on lift linkages. Bolts must be free to rotate and slide freely in lift slot. Attach wing axle assemblies using 3/4" u-bolts. Wing axle and hub assemblies are optional on single coil/chopper wings.

## SECTION 2 - ASSEMBLY

---

### HYDRAULIC SYSTEM

Install cylinder hydraulic fittings and hydraulic hoses between cylinders.

### HITCH TUBES

Position hitch tubes on top of center section. Attach hitch tubes to center section with  $\frac{3}{4}$ " u-bolts, lockwashers and nuts. Connect hitch tubes with hitch extension, hitch channel (8C5050) and hitch piece (8D0720) at front of machine using hardware provided.

### 46' to 50' ONLY

Install front cross brace below hitch tubes with  $\frac{1}{2}$ " and  $\frac{3}{4}$ " u-bolts. Locate 20" (center to center) ahead of main frame front pivot. **IMPORTANT:** All three wing hinge points must be in line. If hinge points are not in line, loosen u-bolts, position braces correctly and retighten.

### WING BRACES

Install wing braces to front center pivots with 1-1/4" pins. Secure to wing with  $\frac{3}{4}$ " u-bolts.

### HYDRAULIC HOSES TO TRACTOR AND TIRES

Install hydraulic hoses and fittings to front of machine. Secure hoses with clamps provided. Do not over tighten, hydraulic hoses expand and shorten when pressurized. Install wheels and tires. Tighten wheel bolts to 122 ft-lb torque.

### CHARGE HYDRAULIC SYSTEM

Block Wing Lift Hydraulic Cylinders so rods can fully extend without contacting anything. Connect hydraulic tips to tractor hydraulic couplers. Extend and retract cylinders until air is purged from hydraulic system. Attach rod end of part 1 wing lift cylinders to wing lift slots with 1" X 7" or longer bolt, flat washer, bushings and lock nut. Attach rod end of part 2 wing lift cylinders to lift linkage. Do not overtighten lock nuts as rod end of wing lift cylinders must slide freely in lift slot and bolts must rotate freely. Raise and lower machine. Watch so hydraulic hoses do not tighten or get pinched, adjust hoses if necessary. Adjust part 1 wing lift cylinder eye bolts so wings rest on center frame Wing Stops (8C5140) during transport. Adjust part 2 wing lift cylinders so part 2 wings rest on support pipe. Tighten all Eye Bolts. Insure that cylinder attach holes are aligned when eyebolts are tightened.

### C-SHANKS

Mark frame with coil locations shown in layout drawing. Position C-Shank clamps (8C5820) 9-1/2" center to center at these locations. Install C-Shanks (8K4392) and secure with hardware provided.

### COIL/CHOPPER ASSEMBLIES

Pre-assemble Pull Frames. Secure pillow block to adjustment arm with 1/2" u-bolt and hardware. Secure bearing to coil shaft with set screws and snap ring. Attach Coil and Pull Frame assemblies to C-Shanks using  $\frac{3}{4}$ " U-bolts (8C1720) and hardware. Note: Left and Right hand wound coils can be identified by comparing to Left and Right hand bolt threads.

### SMV sign, Wing Transport Locks, Main Transport Lock, ID & Safety Decals and Safety Lighting

Install SMV sign at rear center of machine. Install Wing and Main transport locks. Install decals. Install Safety Lighting components. Where possible, run wiring harnesses next to hydraulic hoses. Secure with nylon ties.



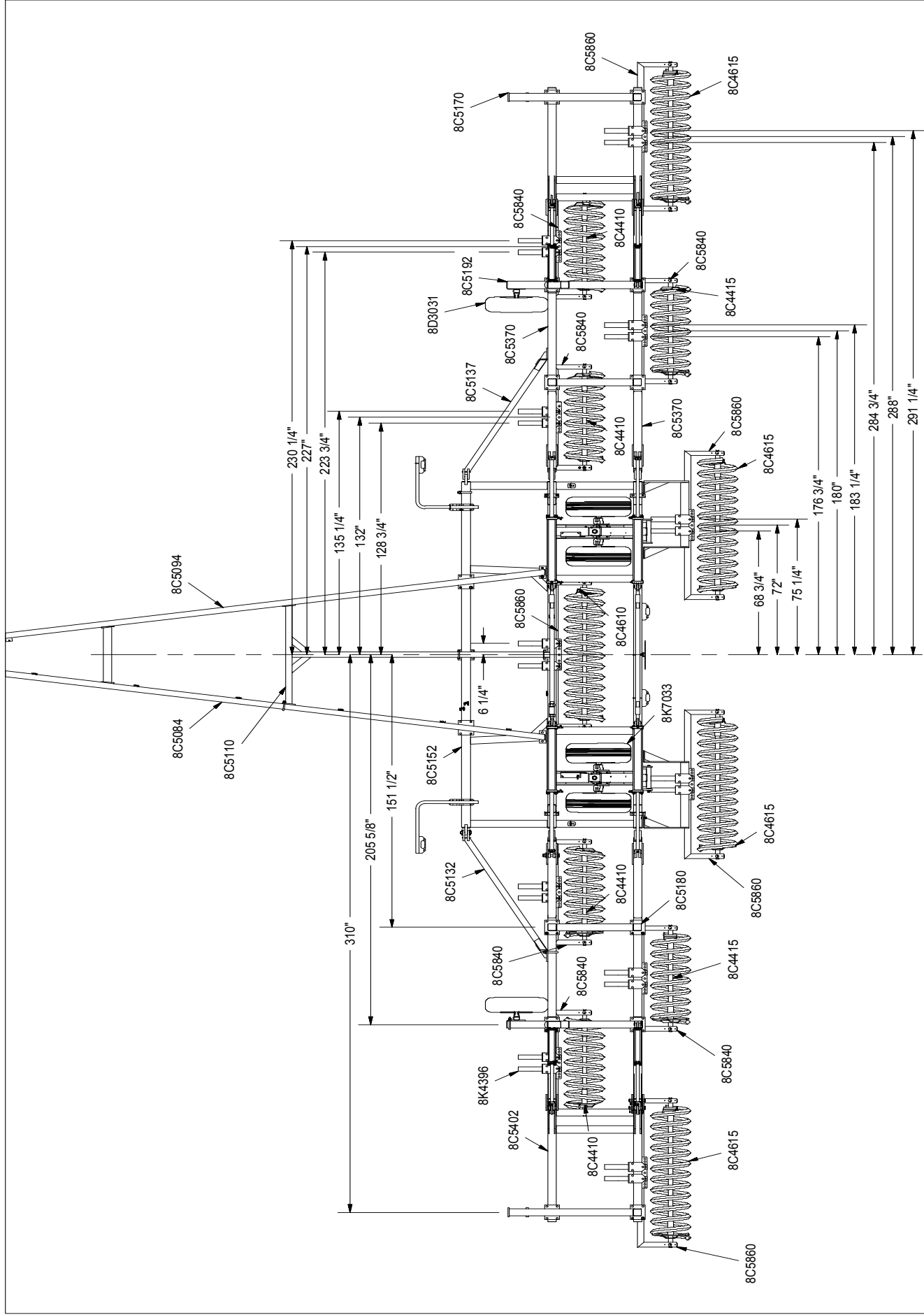




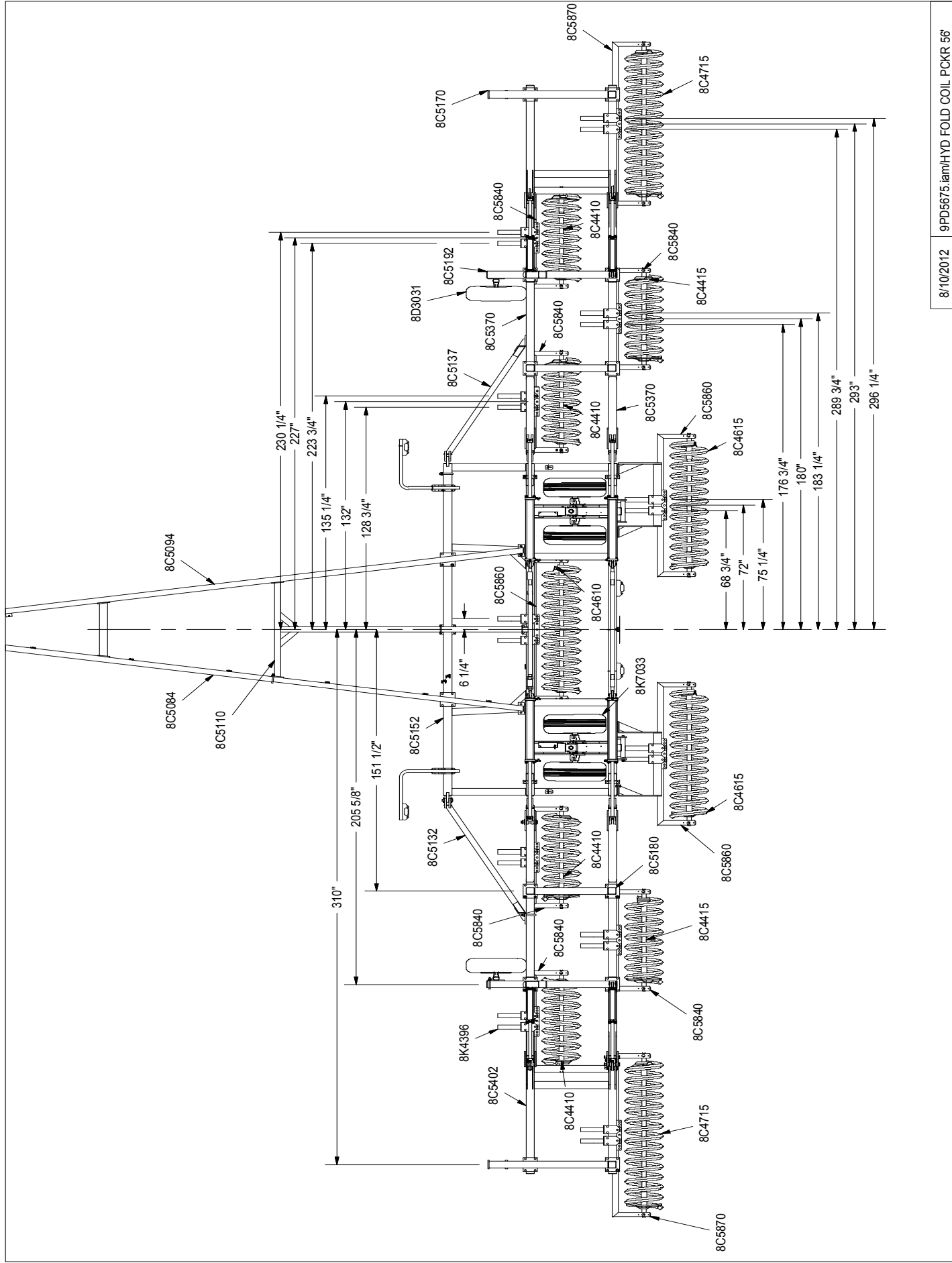




SECTION 2 - ASSEMBLY



SECTION 2 - ASSEMBLY





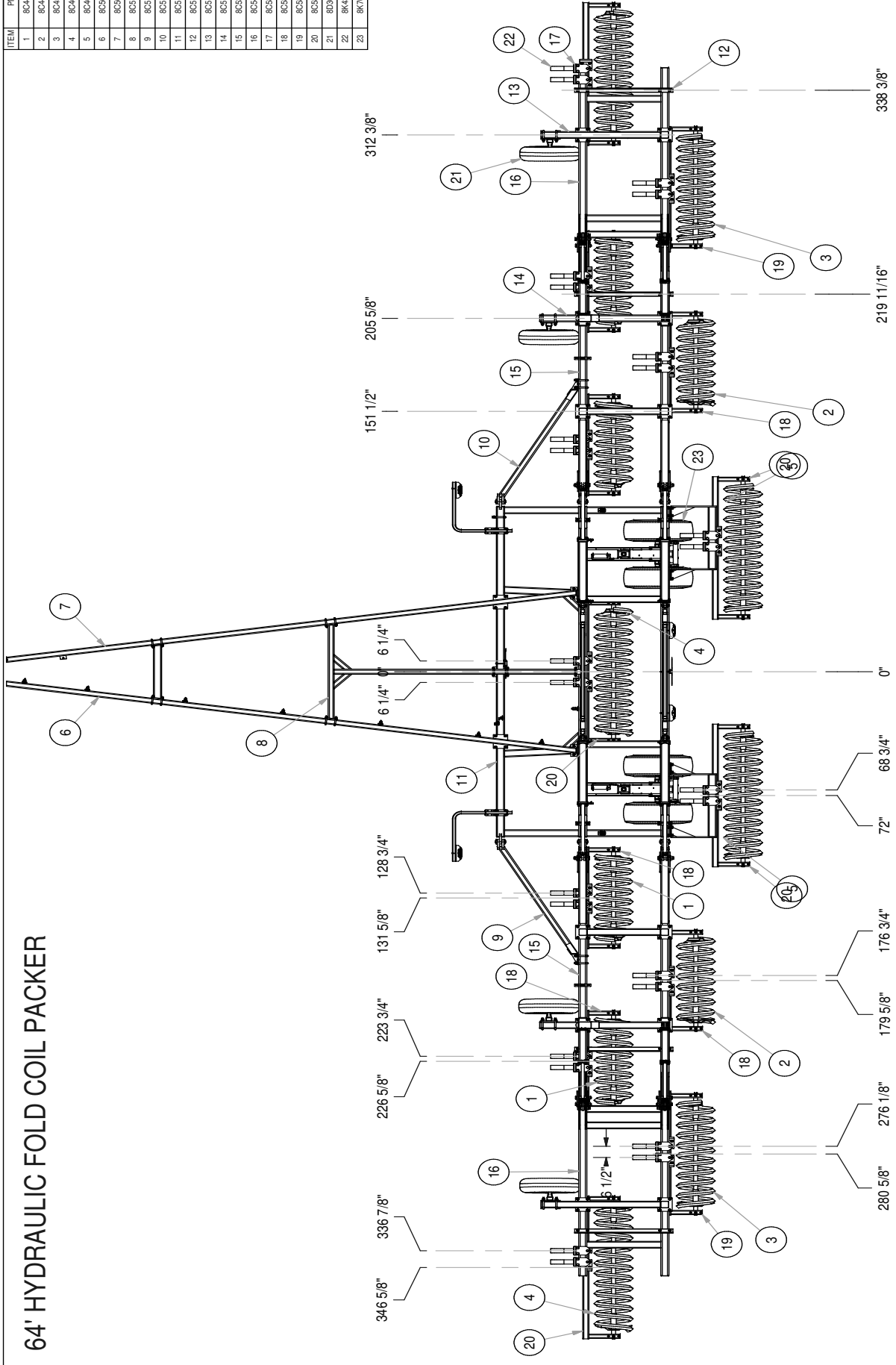




SECTION 2 - ASSEMBLY

64' HYDRAULIC FOLD COIL PACKER

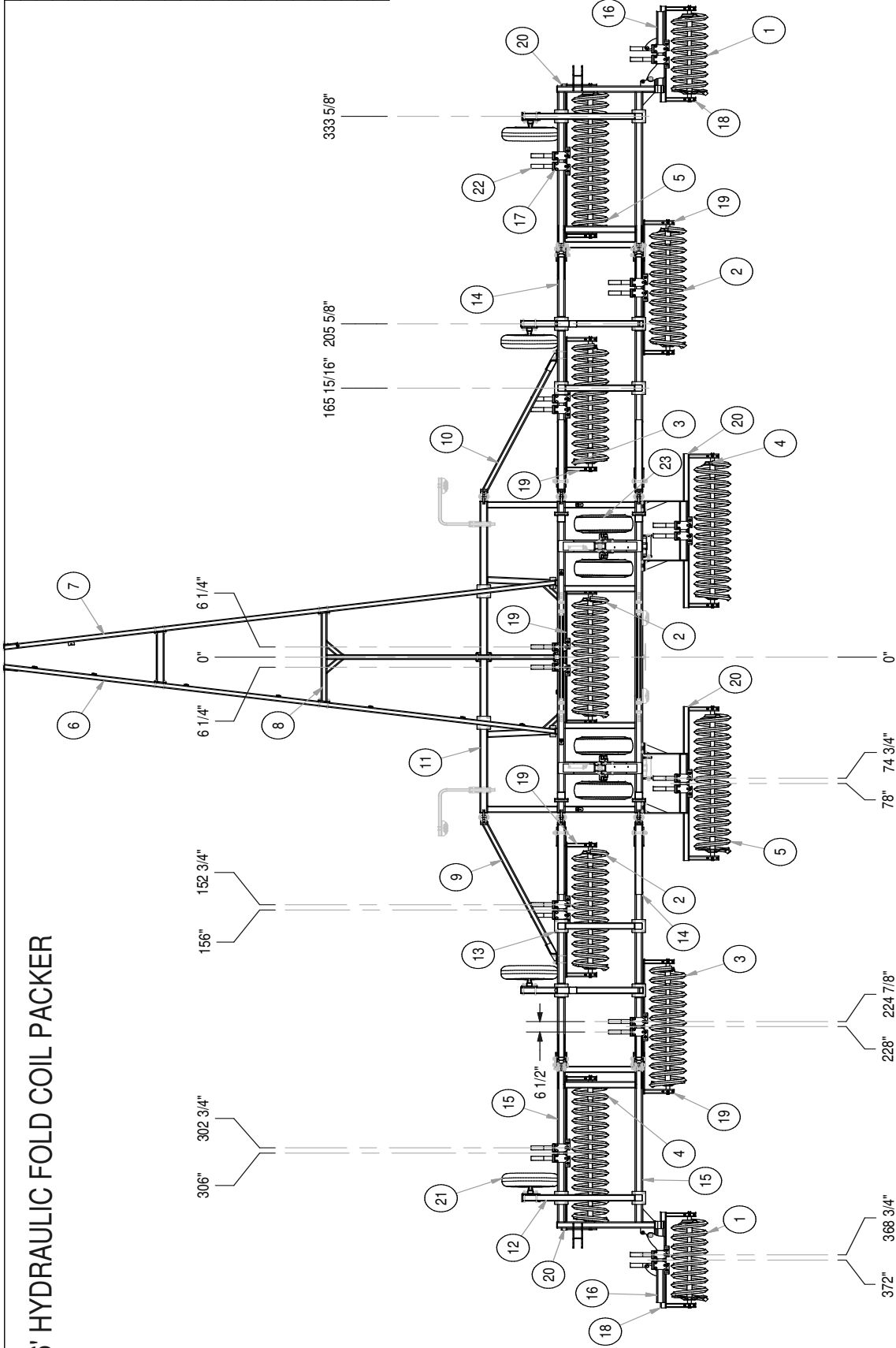
| ITEM | PN     |
|------|--------|
| 1    | 8C4410 |
| 2    | 8C4415 |
| 3    | 8C4515 |
| 4    | 8C4610 |
| 5    | 8C4615 |
| 6    | 8C5084 |
| 7    | 8C5084 |
| 8    | 8C5110 |
| 9    | 8C5132 |
| 10   | 8C5137 |
| 11   | 8C5160 |
| 12   | 8C5160 |
| 13   | 8C5170 |
| 14   | 8C5192 |
| 15   | 8C5370 |
| 16   | 8C5420 |
| 17   | 8C5820 |
| 18   | 8C5840 |
| 19   | 8C5850 |
| 20   | 8C5860 |
| 21   | 8C0031 |
| 22   | 8K4386 |
| 23   | 8K7042 |



SECTION 2 - ASSEMBLY

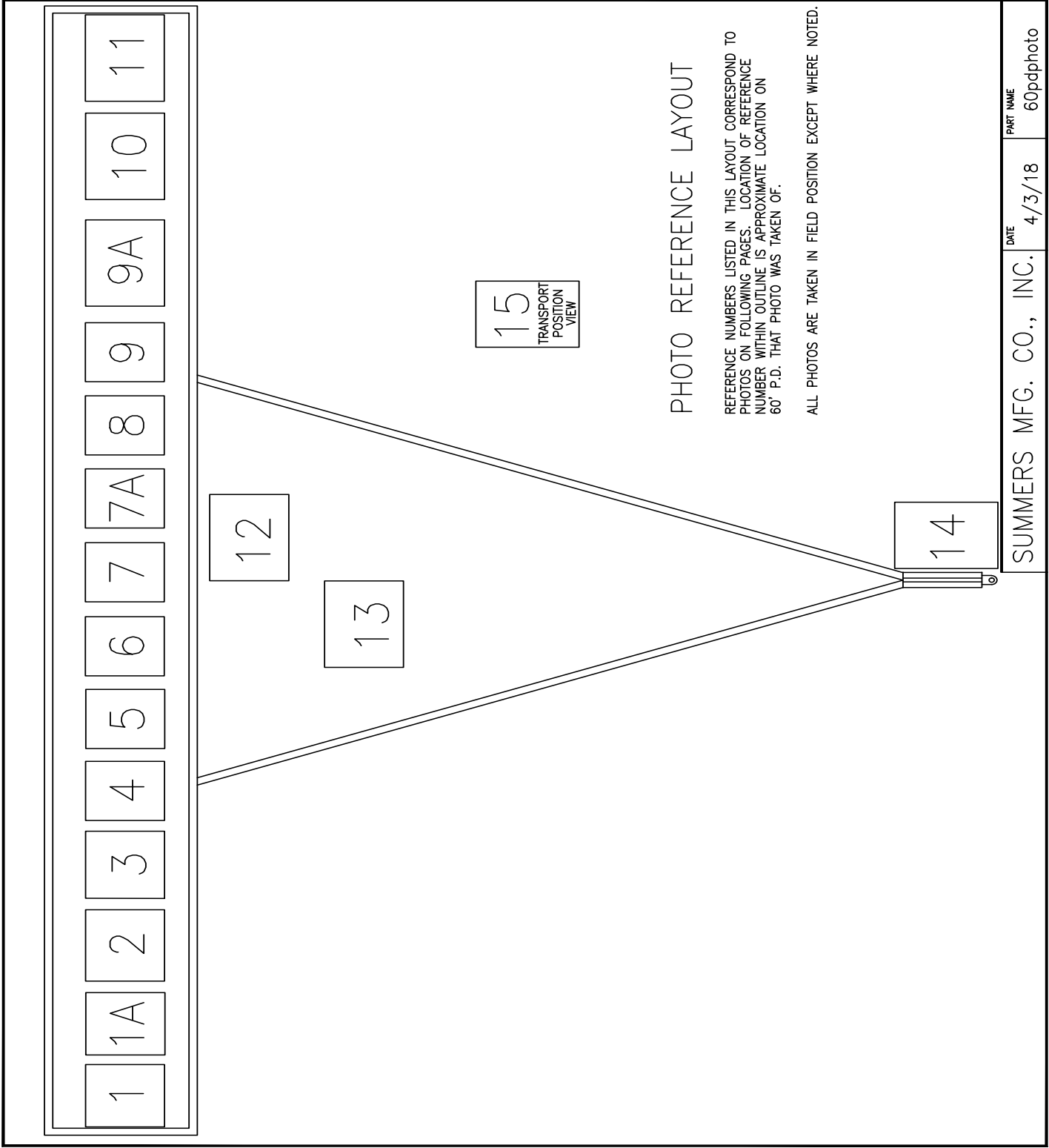
66' HYDRAULIC FOLD COIL PACKER

| ITEM | PN     |
|------|--------|
| 1    | 8C415  |
| 2    | 8C4610 |
| 3    | 8C4615 |
| 4    | 8C4710 |
| 5    | 8C4715 |
| 6    | 8C5984 |
| 7    | 8C5984 |
| 8    | 8C5110 |
| 9    | 8C5134 |
| 10   | 8C5138 |
| 11   | 8C5152 |
| 12   | 8C5170 |
| 13   | 8C5180 |
| 14   | 8C5270 |
| 15   | 8C5214 |
| 16   | 8C5430 |
| 17   | 8C5920 |
| 18   | 8C5940 |
| 19   | 8C5960 |
| 20   | 8C5970 |
| 21   | 8C3031 |
| 22   | 8K4686 |
| 23   | 8K7033 |





SECTION 2 - ASSEMBLY

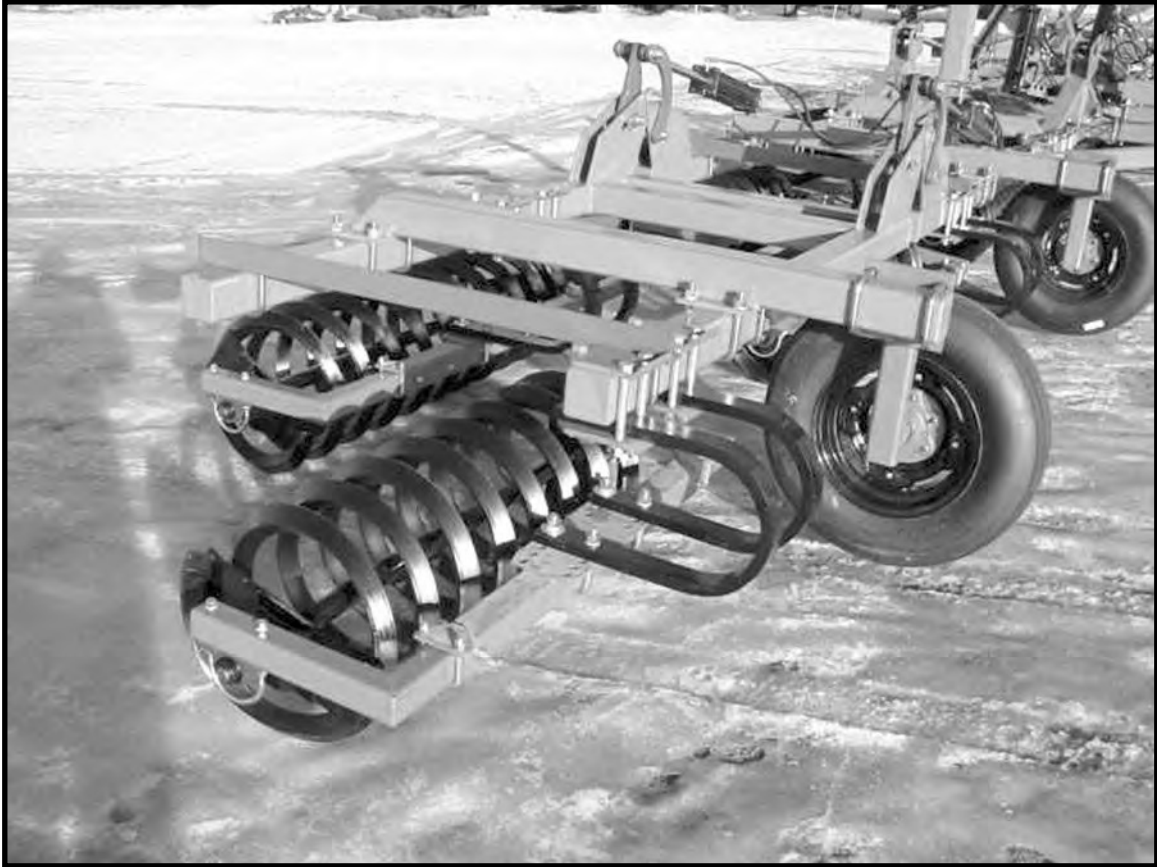


SUMMERS MFG. CO., INC. DATE 4/3/18 PART NAME 60pdphoto

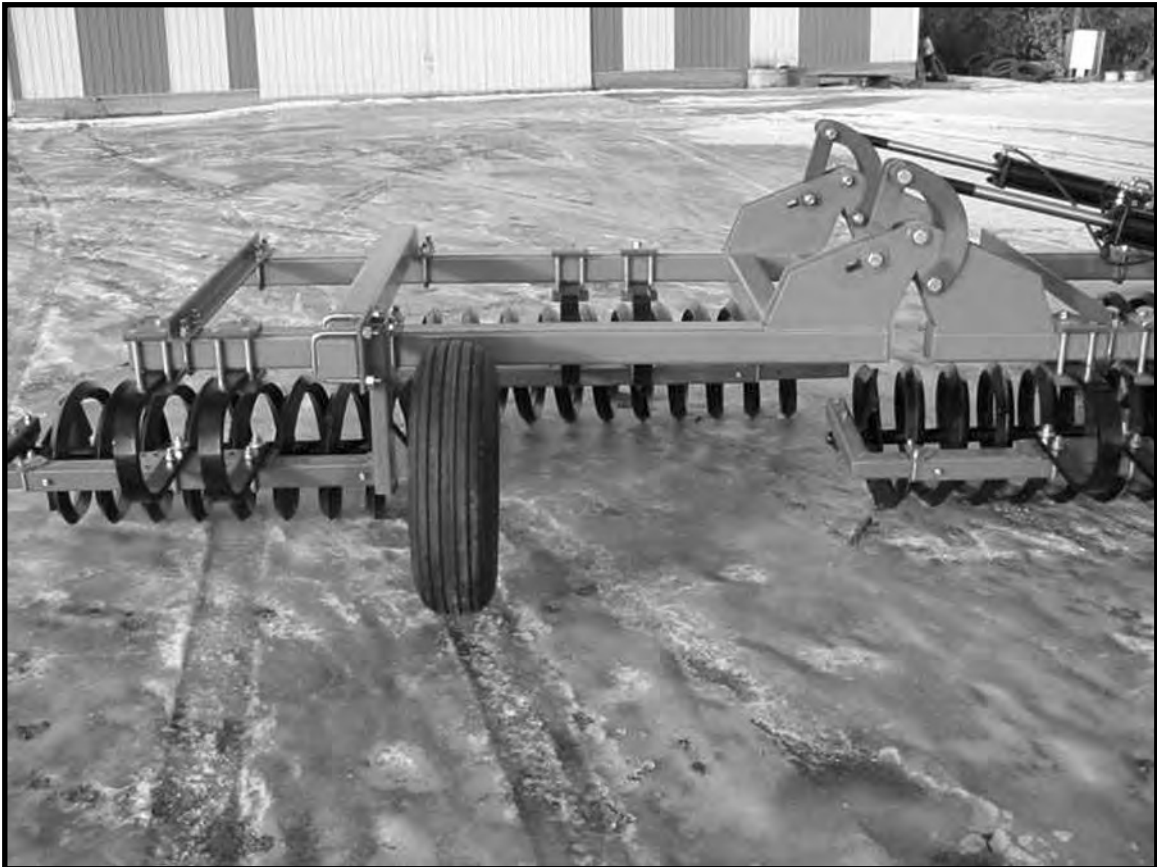
**SECTION 2 - ASSEMBLY**

**5-Section Hydraulic Fold Coil Packer  
Assembly Instructions – Photo Supplement – 60' Shown**

1



1A



**SECTION 2 - ASSEMBLY**



**2**

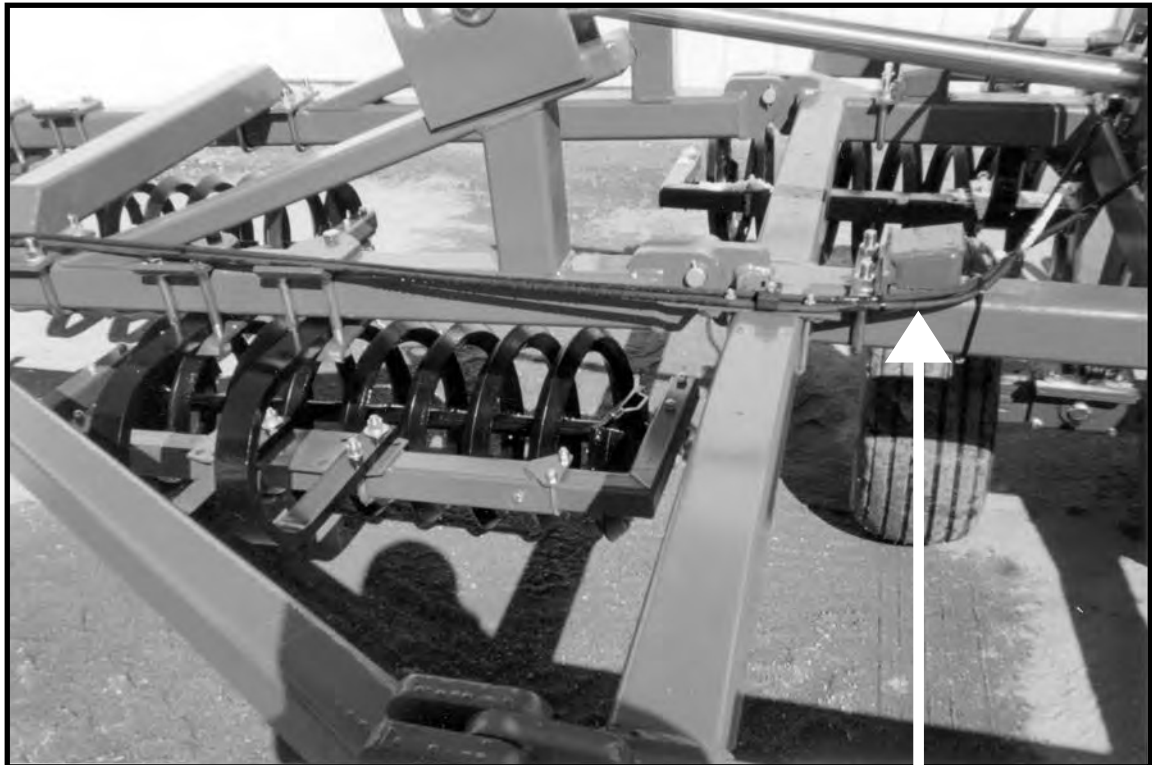


**3**

**SECTION 2 - ASSEMBLY**



4

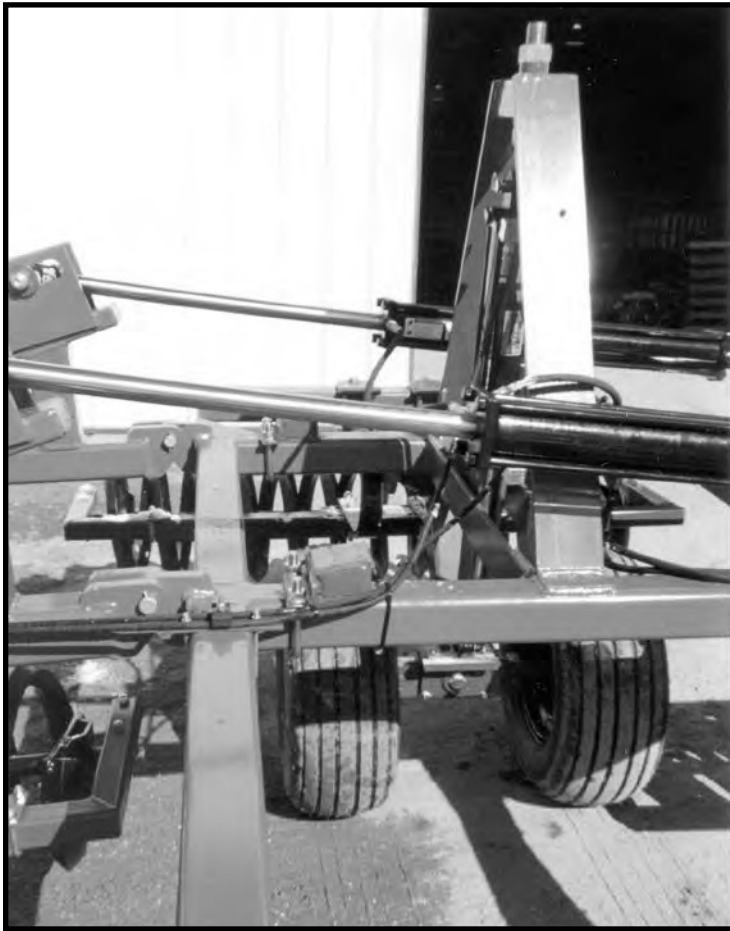


5

**WING STOP**  
**4X 51'-66'**  
**2X 46'-50' REAR ONLY**

SECTION 2 - ASSEMBLY

6



7

7A



**SECTION 2 - ASSEMBLY**



8

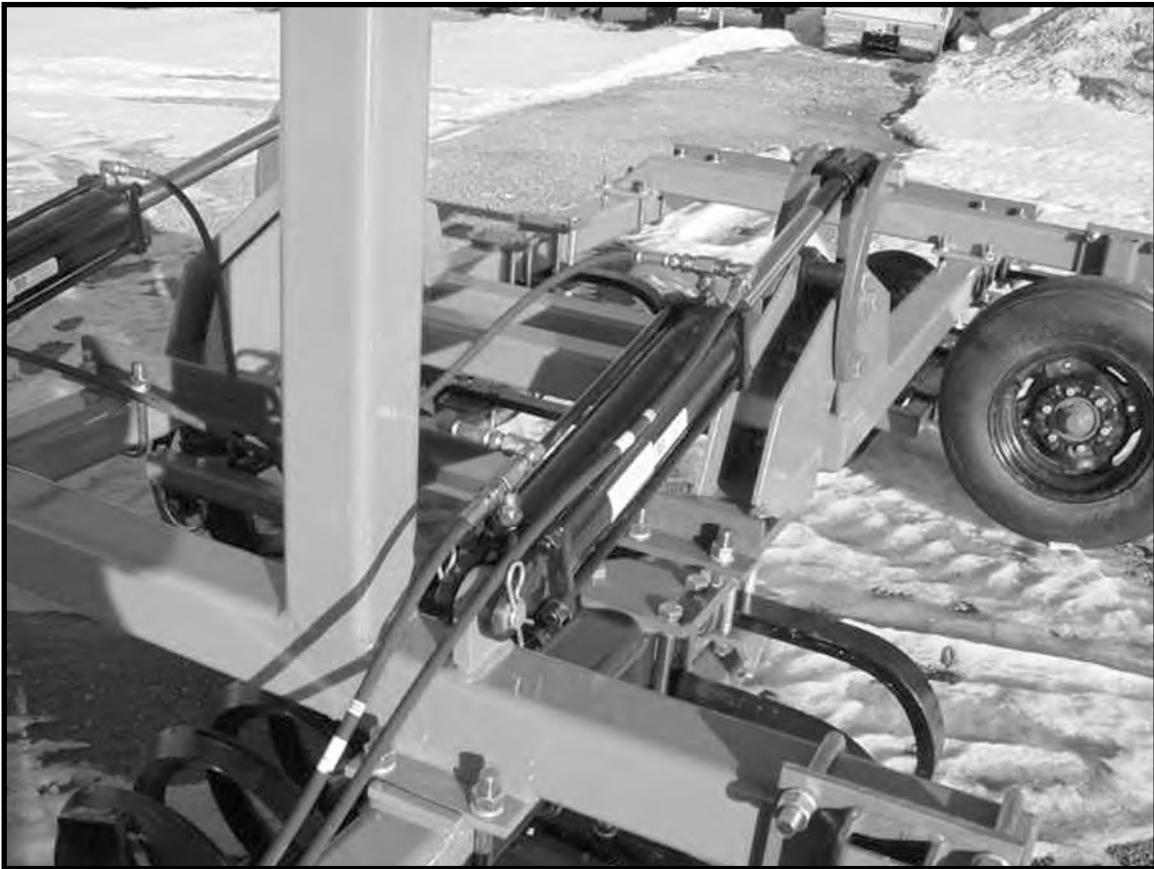
**IMPORTANT**  
Do Not route hydraulic hoses above wing stop.

**IMPORTANT**  
Do Not over tighten. Bolt must be free to rotate.



9

9A

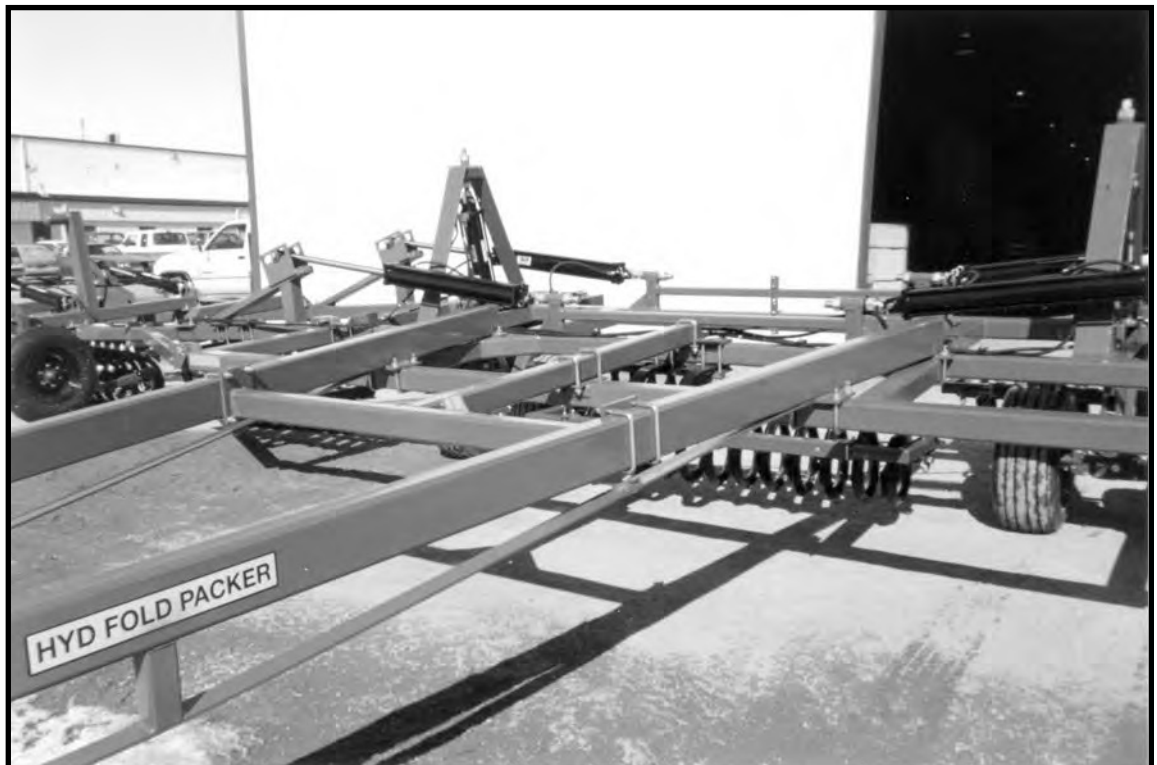


10





11

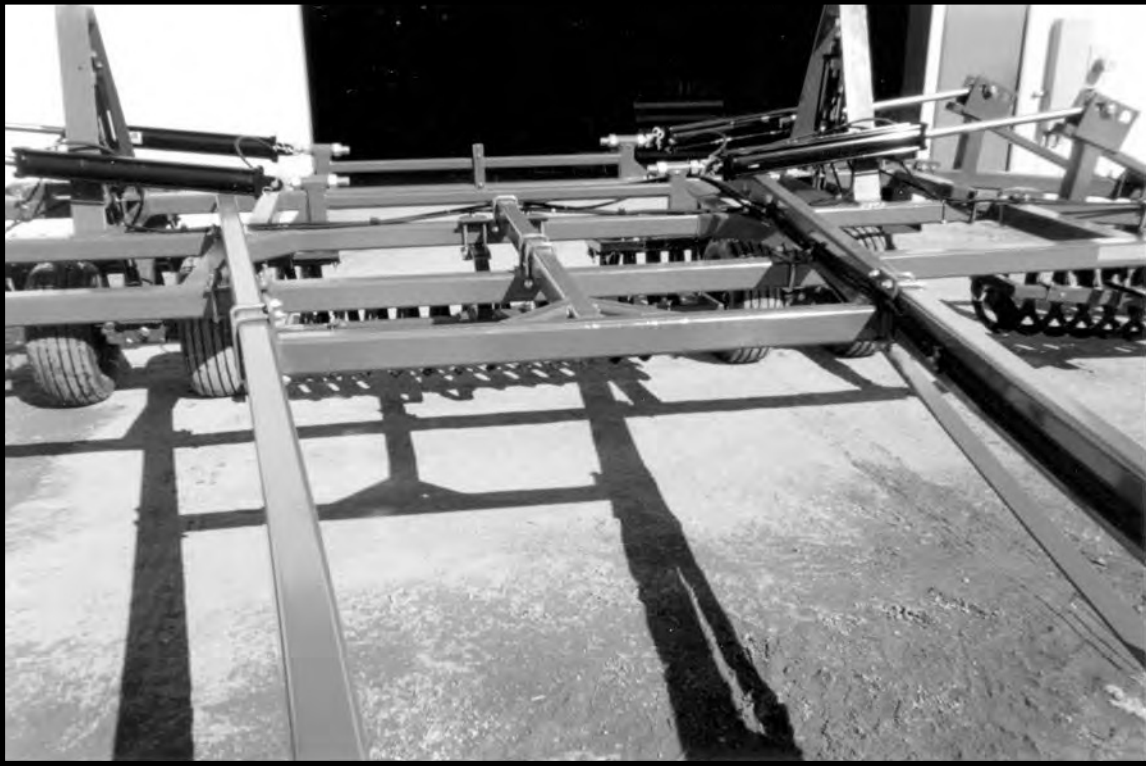


12



SECTION 2 - ASSEMBLY

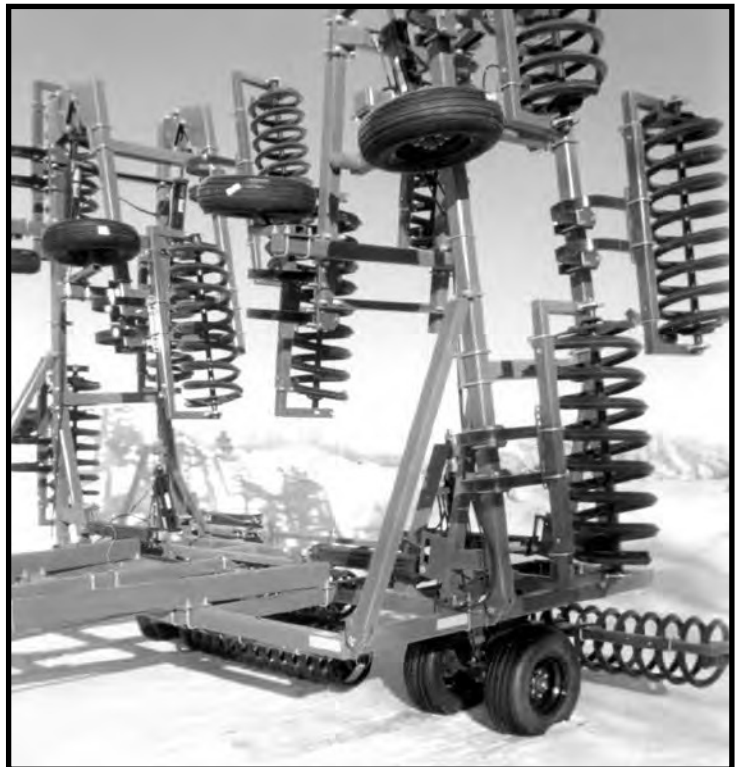
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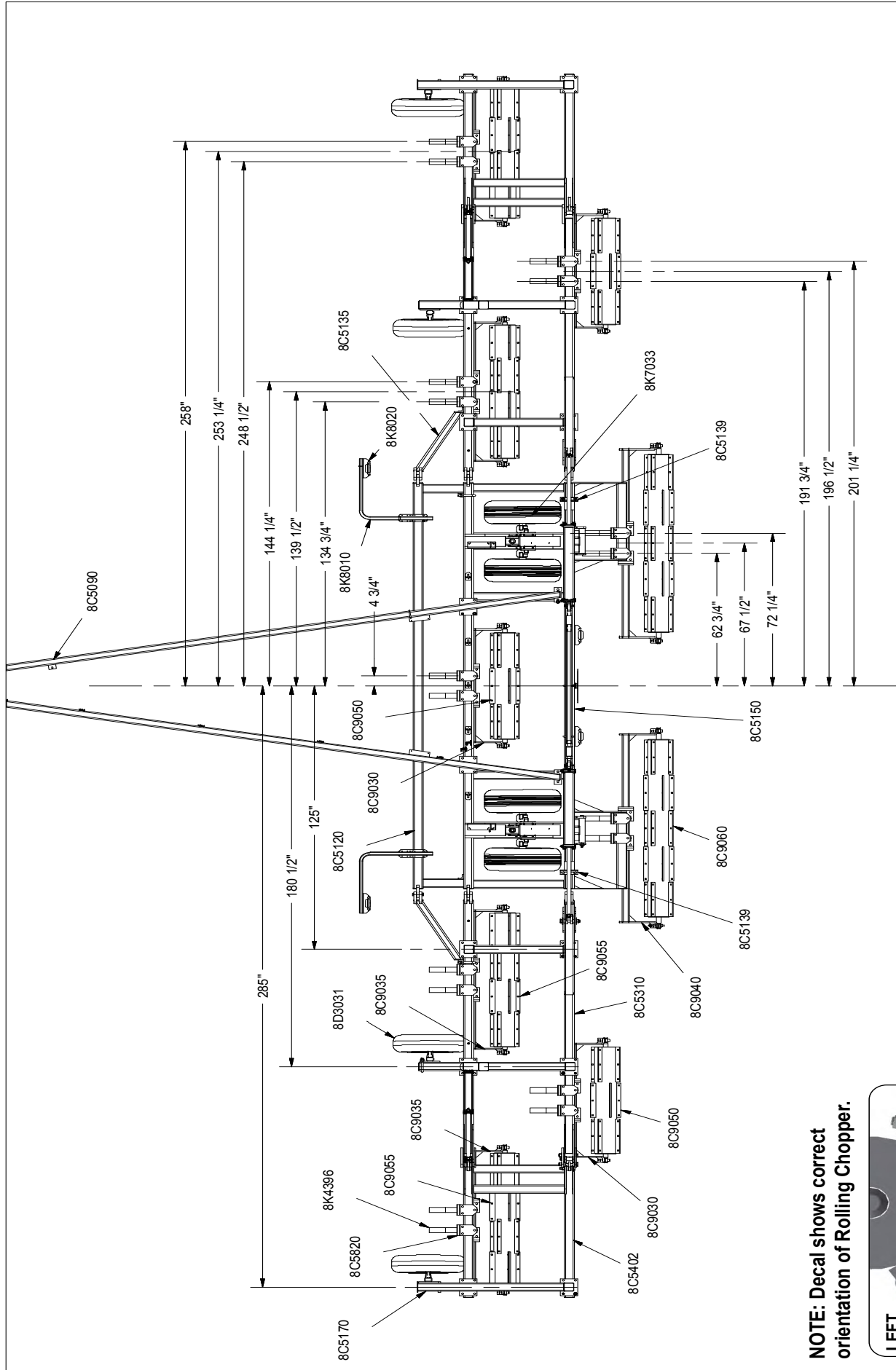
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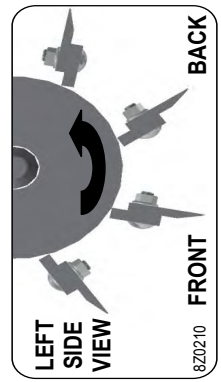
15



SECTION 2 - ASSEMBLY



**NOTE: Decal shows correct orientation of Rolling Chopper.**



8Z0210



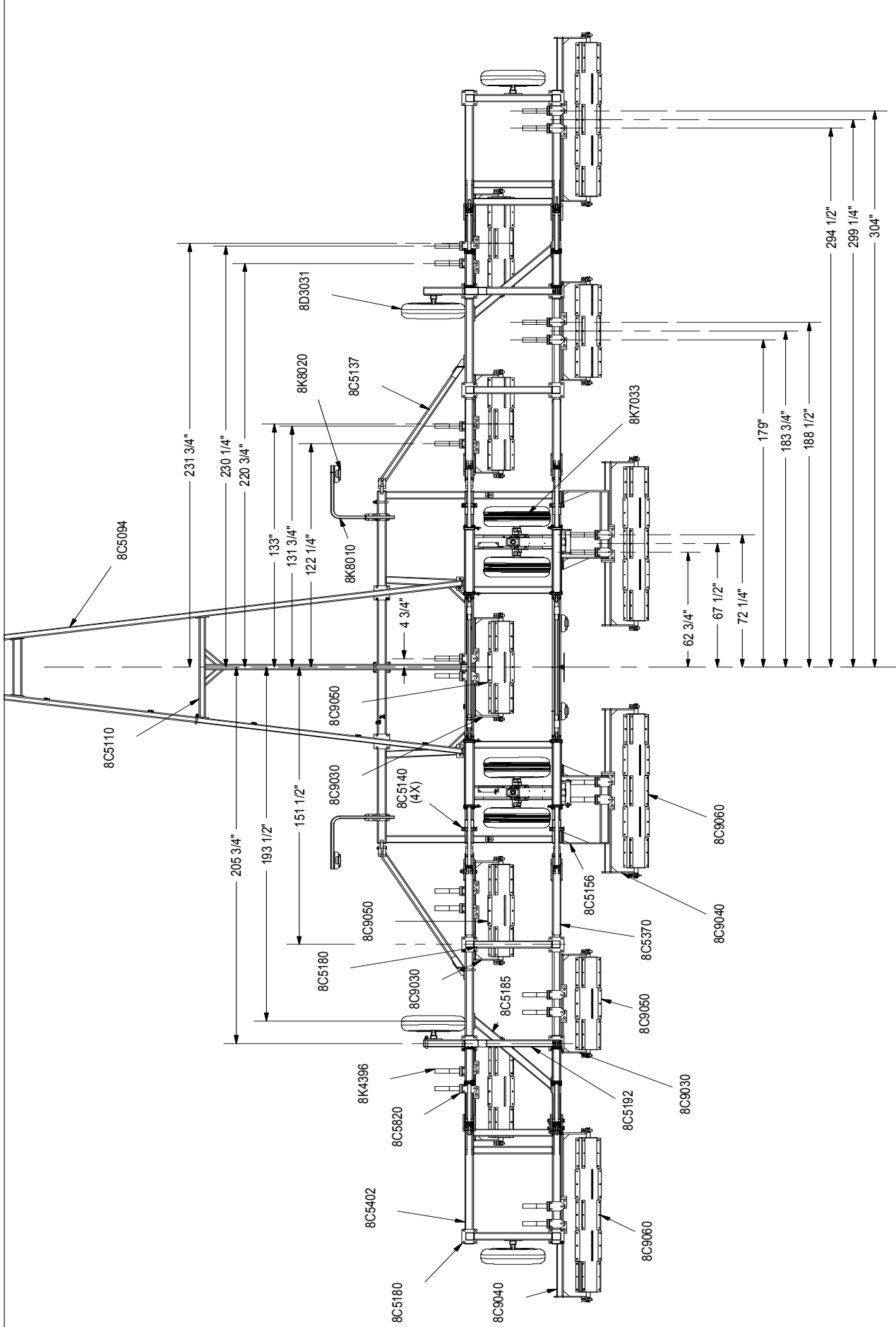






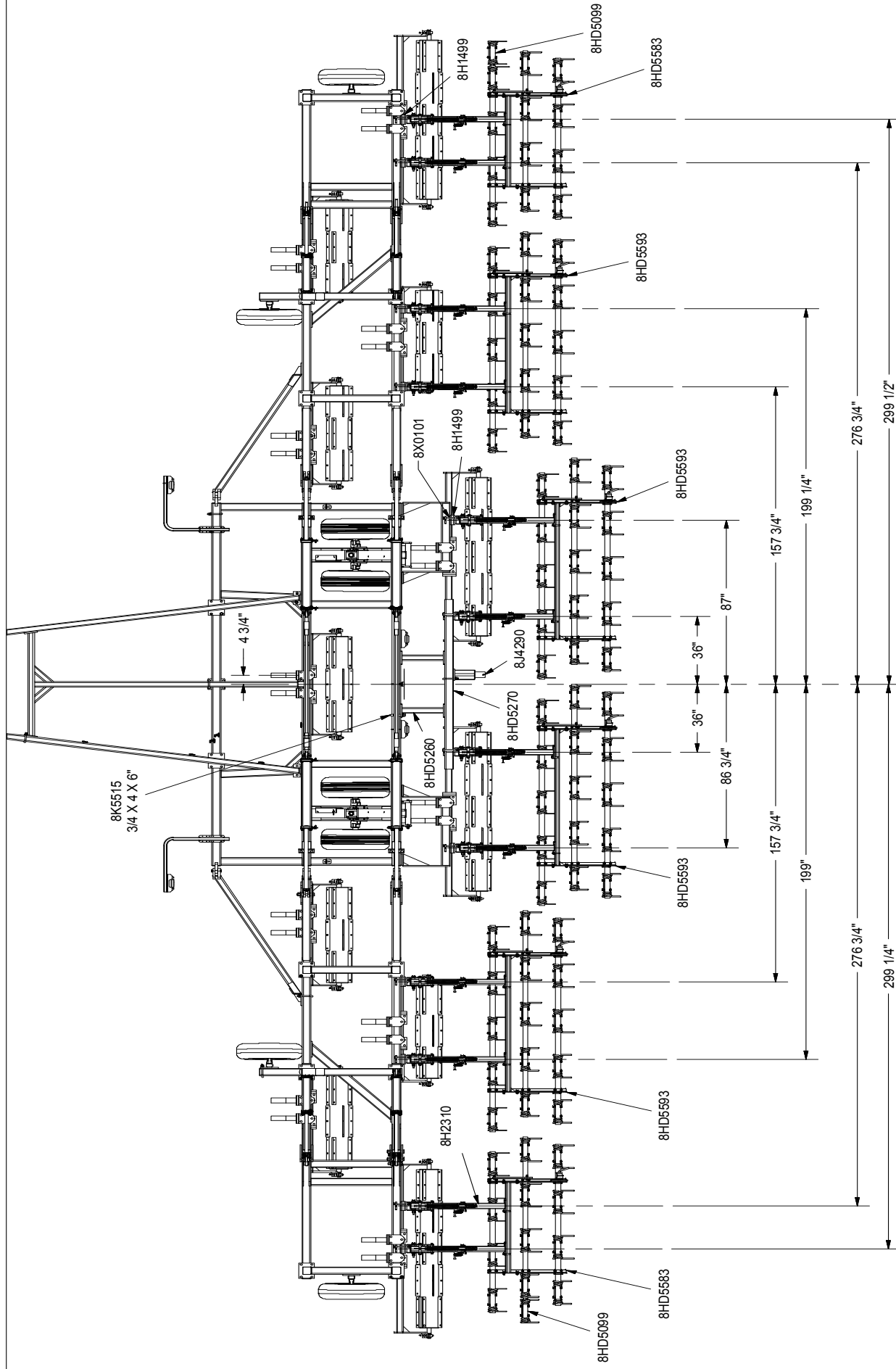


SECTION 2 - ASSEMBLY





SECTION 2 - ASSEMBLY



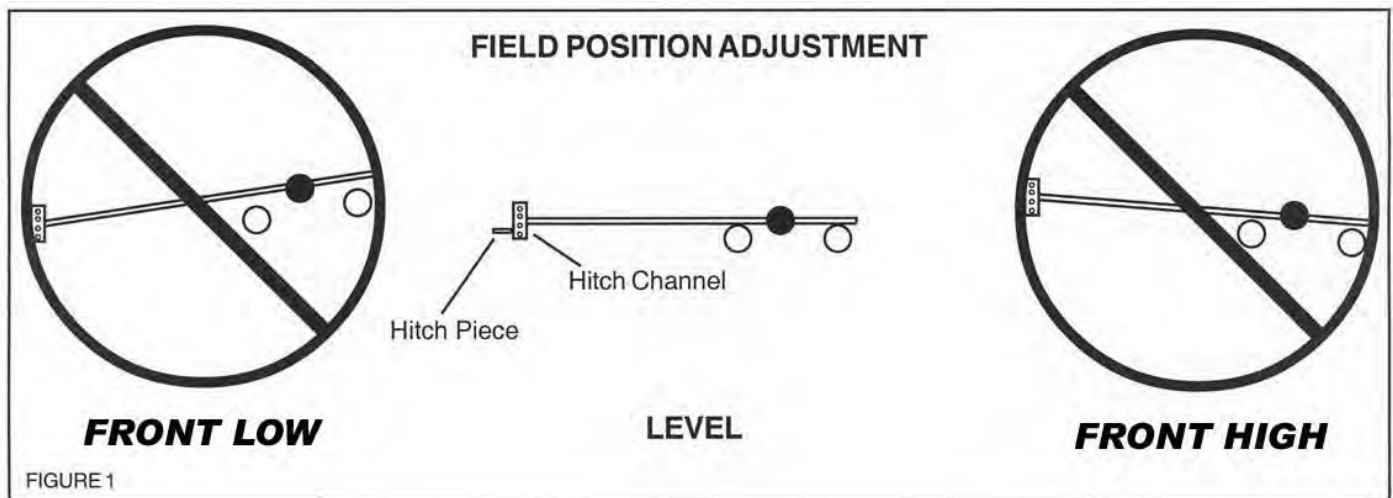
## SECTION 3 - OPERATION and MAINTENANCE

### OPERATING INSTRUCTIONS – HYDRAULIC FOLD IMPLEMENT

**IMPORTANT:** Do not exceed 20 MPH while transporting Implement. Do not attempt to raise or lower Implement unless it is securely attached to an appropriate towing vehicle.

#### TRANSPORT TO FIELD POSITION

1. Hitch machine to tractor or implement using a locking hitch pin and safety chain. Connect hydraulic hoses and wiring connector. Retract hitch jack and rotate into storage position.
2. Select a level area to lower machine into field position.
3. Remove transport locks. If locks do not remove freely, insure that cylinders are completely filled with hydraulic fluid and are supporting the load to be lowered. Store locks in storage holes provided.
4. Activate hydraulic system to lower machine into field position (main lift cylinders fully retracted and wing lift cylinders fully extended).
5. To insure even down pressure, the machine hitch must be level in field position. Adjust vertical height of hitch piece if required.



6. Amount of machine weight supported by center 11L tires can be changed by adjusting Eye Bolts above main lift hydraulic cylinders. *NOTE: Lowering Eye Bolts will increase transport height.*

**NOTE:** The Summers Hydraulic Fold Coil Packer is designed to provide an ideal seedbed as a last pass operation either before or after seeding.

#### FIELD TO TRANSPORT POSITION

1. Stop in a level area.
2. Activate hydraulic system to raise machine into transport position (main lift cylinders fully extended and wing lift cylinders fully retracted).
3. Install transport locks.



**Always be sure transport locks are engaged when making adjustments on the machine in the raised or transport position.**

4. Check wheel bolts after first 20 miles of road transport and every 60 miles thereafter.

## SECTION 3 - OPERATION and MAINTENANCE

### UNHITCHING MACHINE

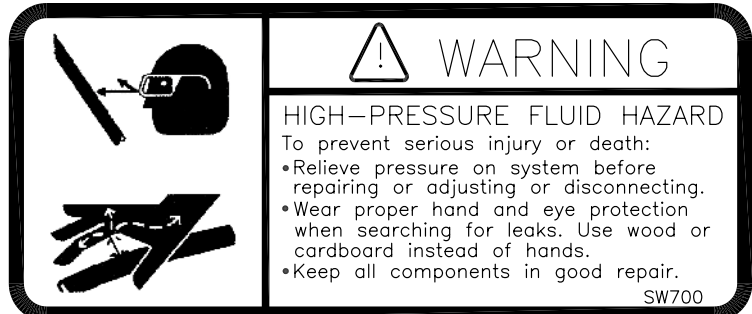
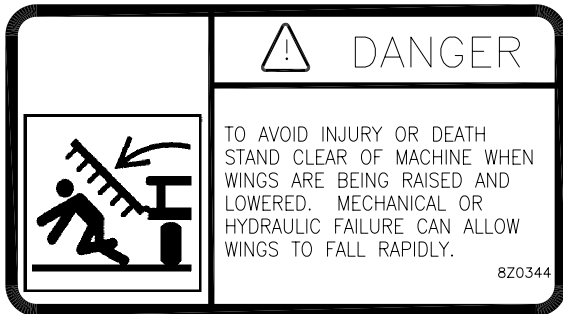
1. Select a level area to park machine. Block wheels to prevent machine from rolling.
2. Rotate jack into standing position and extend jack. Disconnect hydraulic hoses and wiring connector. Disconnect hitch and safety chain.

**NOTE:** Operating implement in wet conditions will cause:

1. Excessive packing with possible soil surface crusting.
2. Increased implement frame stress.

Discontinue use of Packer if mud builds up on coils.

**NOTE:** Machine should run level during field operation. Adjust hitch piece and/or hitch channel to level machine.



### MAINTENANCE AND SERVICE – HYDRAULIC FOLD IMPLEMENT

**IMPORTANT:** Check All wheel bolts daily for tightness. Tighten spindle nuts if any side play is evident in bearings.

#### LUBRICATION

- Grease fitting locations and lube frequencies:

#### 20 hours:

- 1 on each bearing (1 stroke only)
- 2 on each Center Lift Arm
- Lubricate these fittings with a good grade of general purpose grease.

#### Seasonally:

- Disassemble, clean and repack wheel hubs.
- Inspect entire machine for loose or worn fasteners. Tighten or replace as required.

#### Over Winter:

- Coat extended hydraulic cylinder rods with grease to prevent corrosion. Remove grease prior to retracting cylinders.

#### Tire Inflation

Listed below are recommended tire inflations:

|              |            |     |          |        |
|--------------|------------|-----|----------|--------|
| Hitch Tires: | 11L x 15   | LRF | - 80 PSI | 8K7033 |
|              | 12.5L x 15 |     | - 90 PSI | 8K7042 |
| Wing Tires:  | 7.60 x 15  |     | - 28 PSI | 8D3031 |

**SECTION 3 - OPERATION and MAINTENANCE**

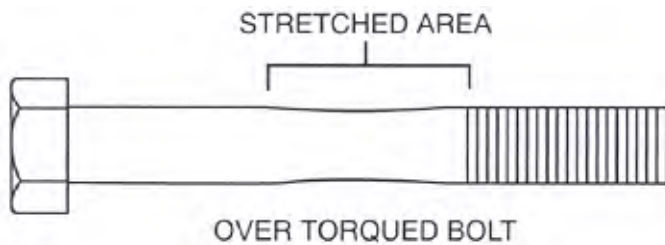
**PROPER BOLT USE**

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

**SECTION 3 - OPERATION and MAINTENANCE**

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# **PARTS SECTION**

**HYDRAULIC FOLD COIL PACKER  
&  
HYDRAULIC FOLD ROLLING CHOPPER**



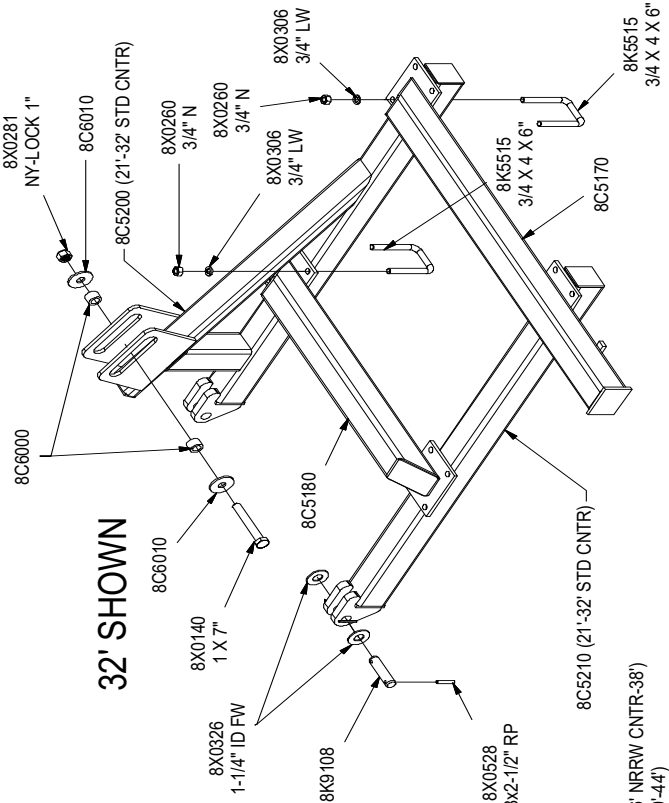




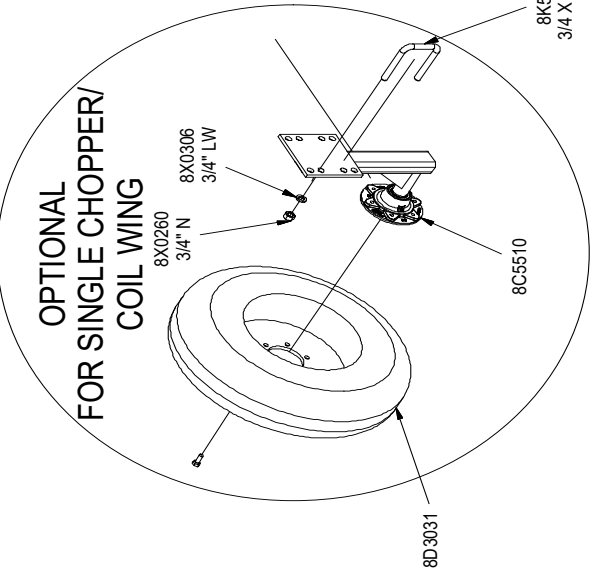


SECTION 4 - PARTS

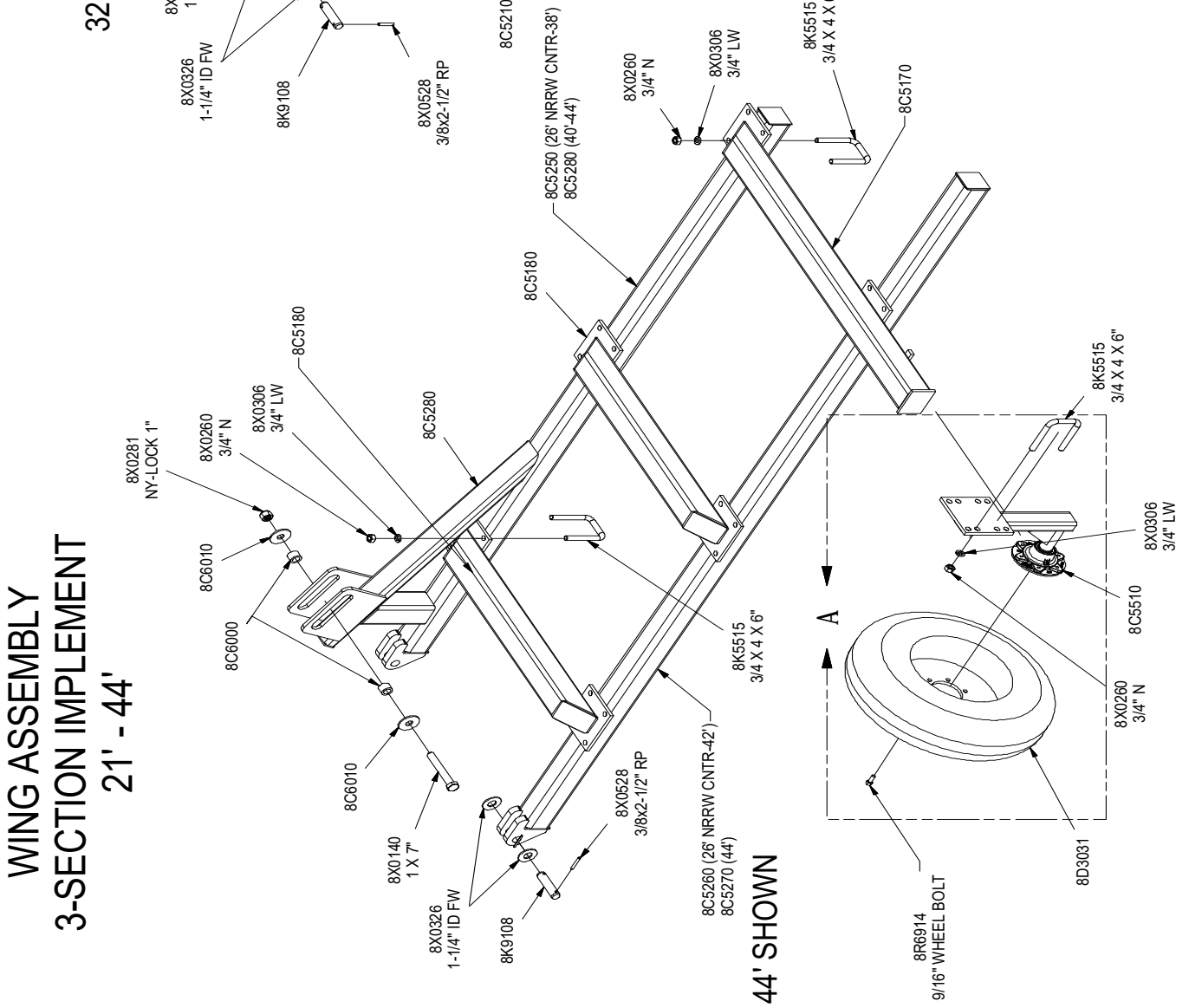
WING ASSEMBLY  
3-SECTION IMPLEMENT  
21' - 44'



32' SHOWN



OPTIONAL  
FOR SINGLE CHOPPER/  
COIL WING



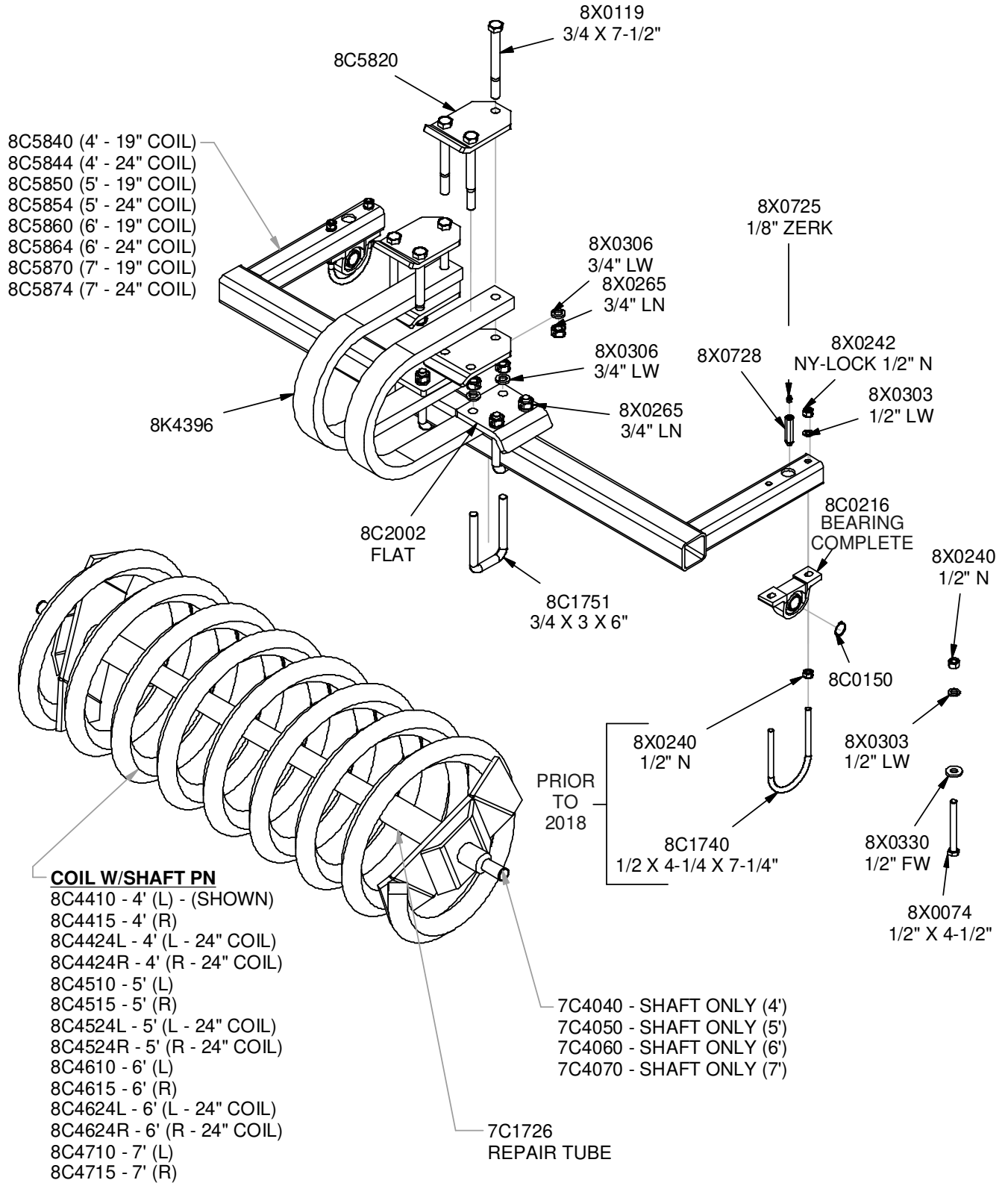
44' SHOWN

9/18/2012 21' THROUGH 44' WING



SECTION 4 - PARTS

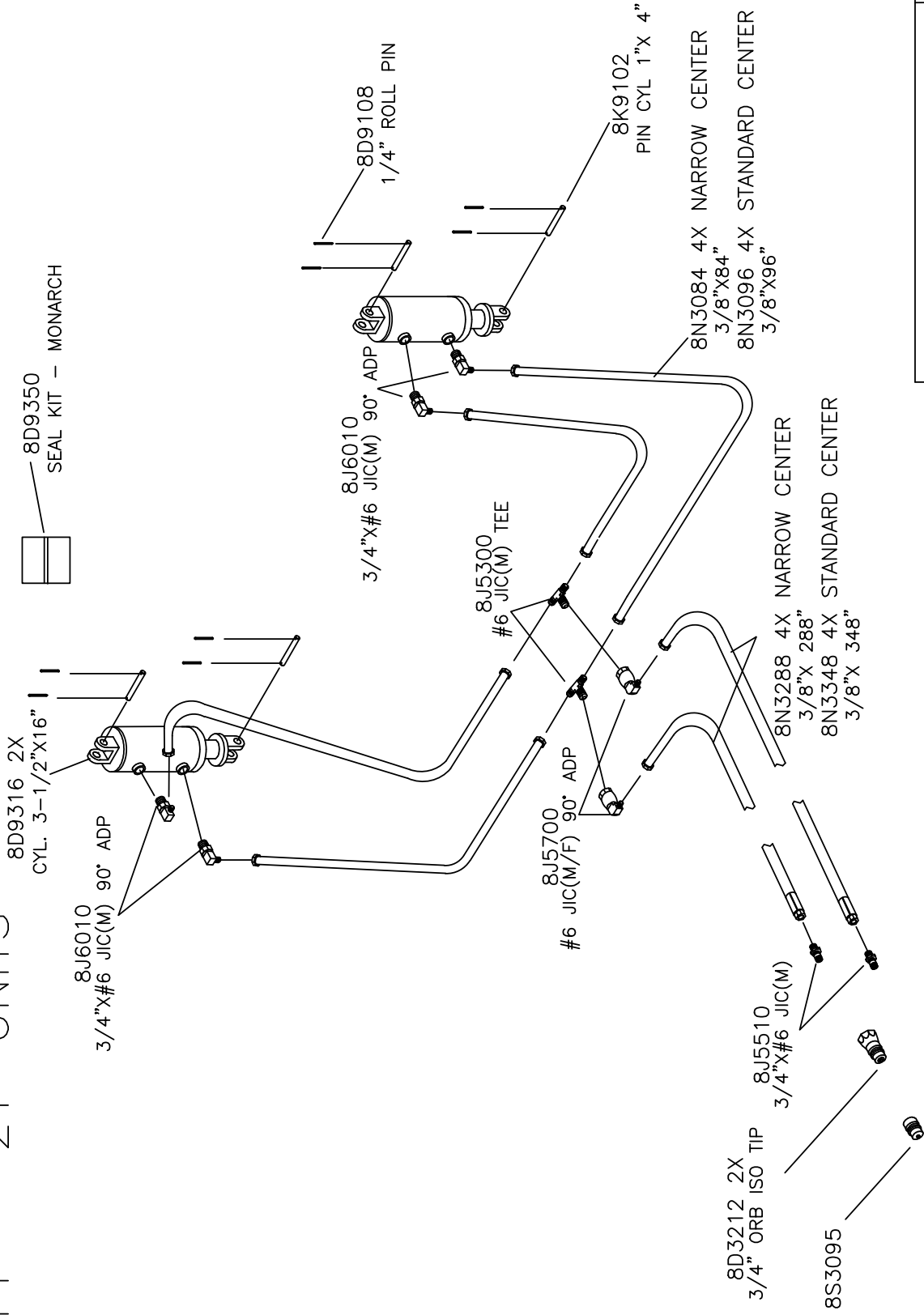
PACKER COIL MOUNTING ASSEMBLY



10/1/2018

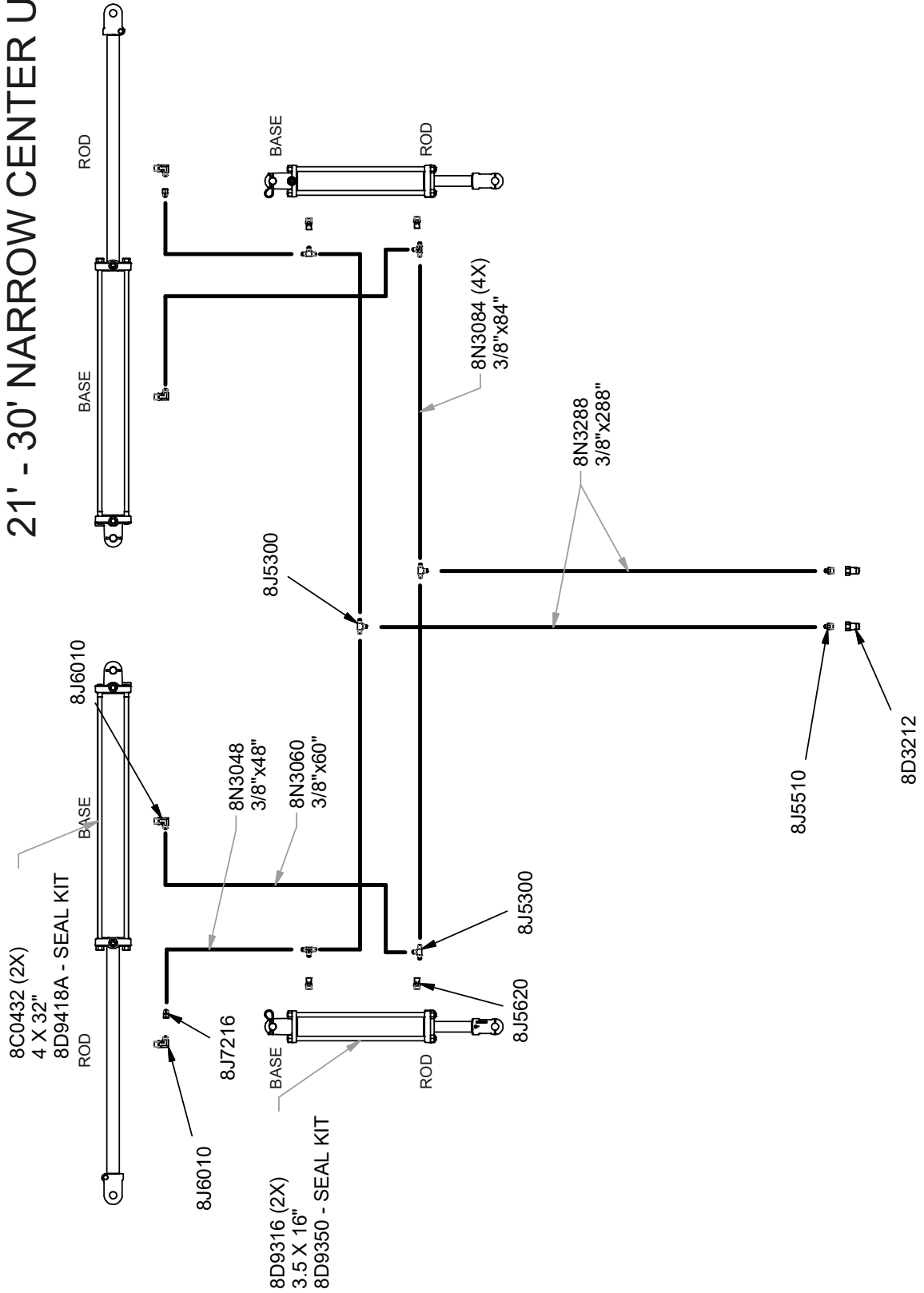
PCKRCOILMNT.iam/

HYDRAULIC LIFT IMPLEMENT  
 HYDRAULIC ASSEMBLY  
 14' - 21' UNITS



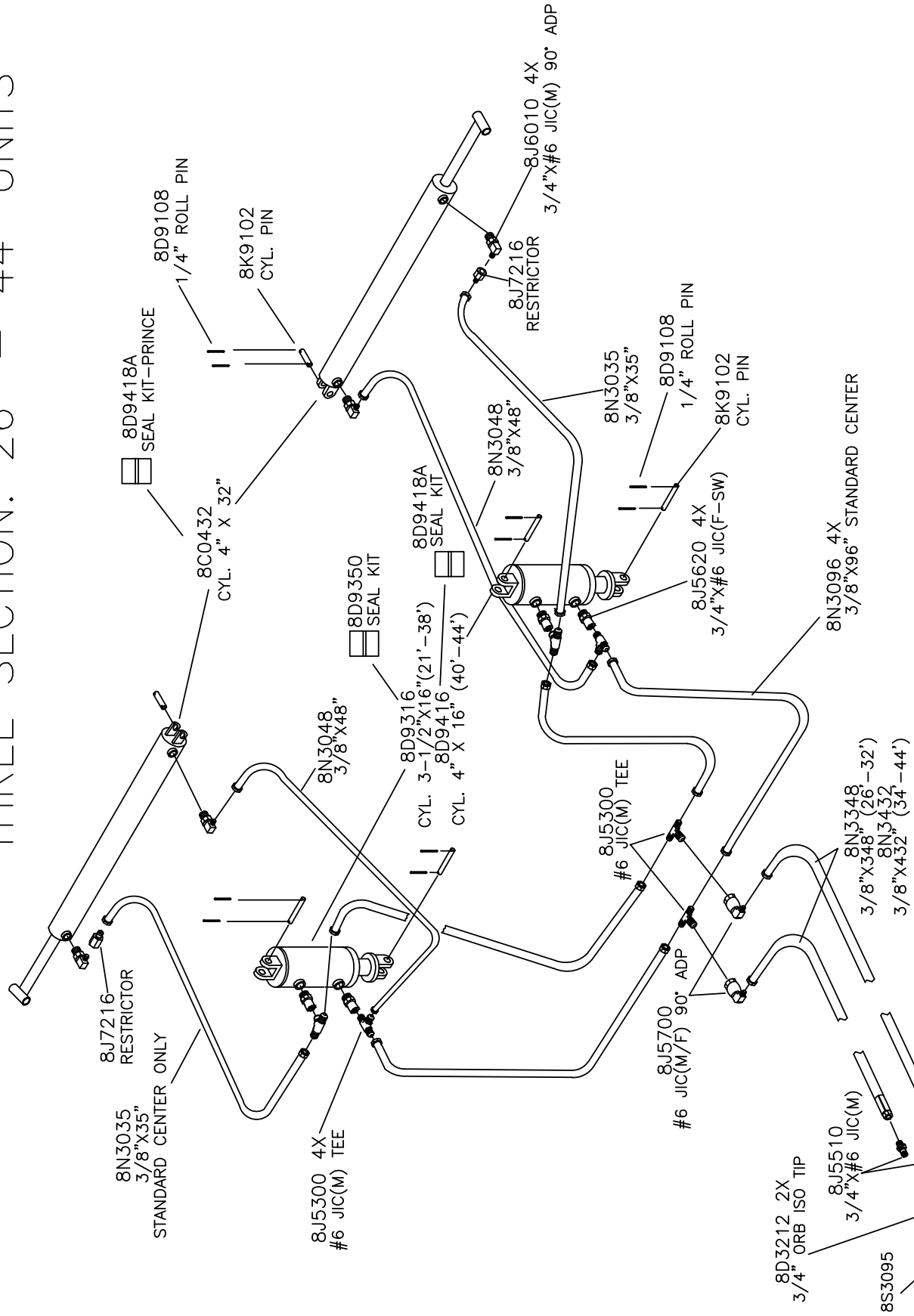
MANUALS/HFCP/HYD18\_21JIC 2/5/10

HYDRAULIC LIFT IMPLEMENT  
 HYDRAULIC ASSEMBLY  
 21' - 30' NARROW CENTER UNITS



SECTION 4 - PARTS

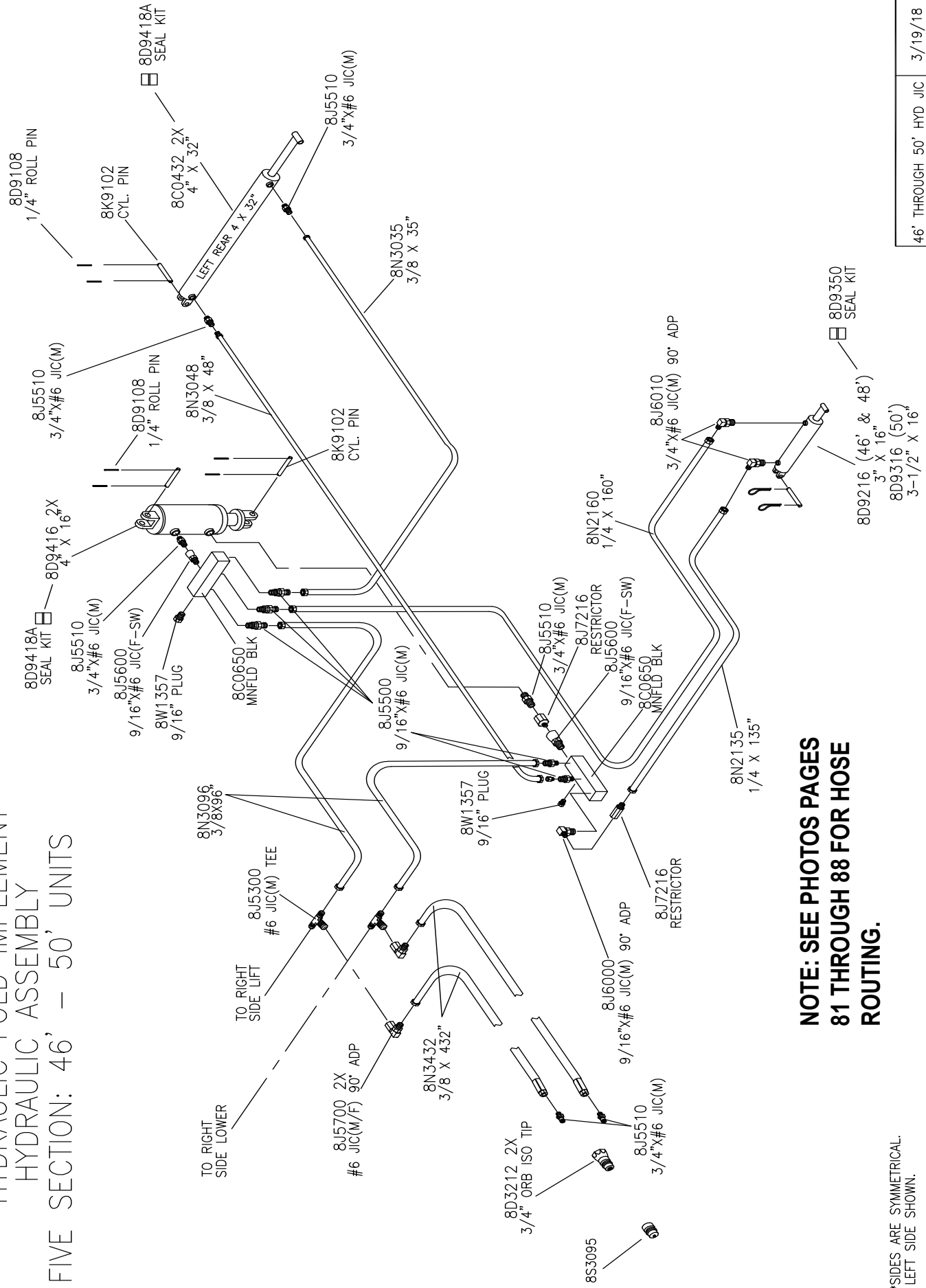
HYDRAULIC FOLD IMPLEMENT HYDRAULIC ASSEMBLY  
THREE SECTION: 26' - 44' UNITS



|                   |         |
|-------------------|---------|
| 26' - 44' HYD JIC | 7/26/12 |
|-------------------|---------|

SECTION 4 - PARTS

HYDRAULIC FOLD IMPLEMENT  
 HYDRAULIC ASSEMBLY  
 FIVE SECTION: 46' - 50' UNITS



**NOTE: SEE PHOTOS PAGES  
 81 THROUGH 88 FOR HOSE  
 ROUTING.**

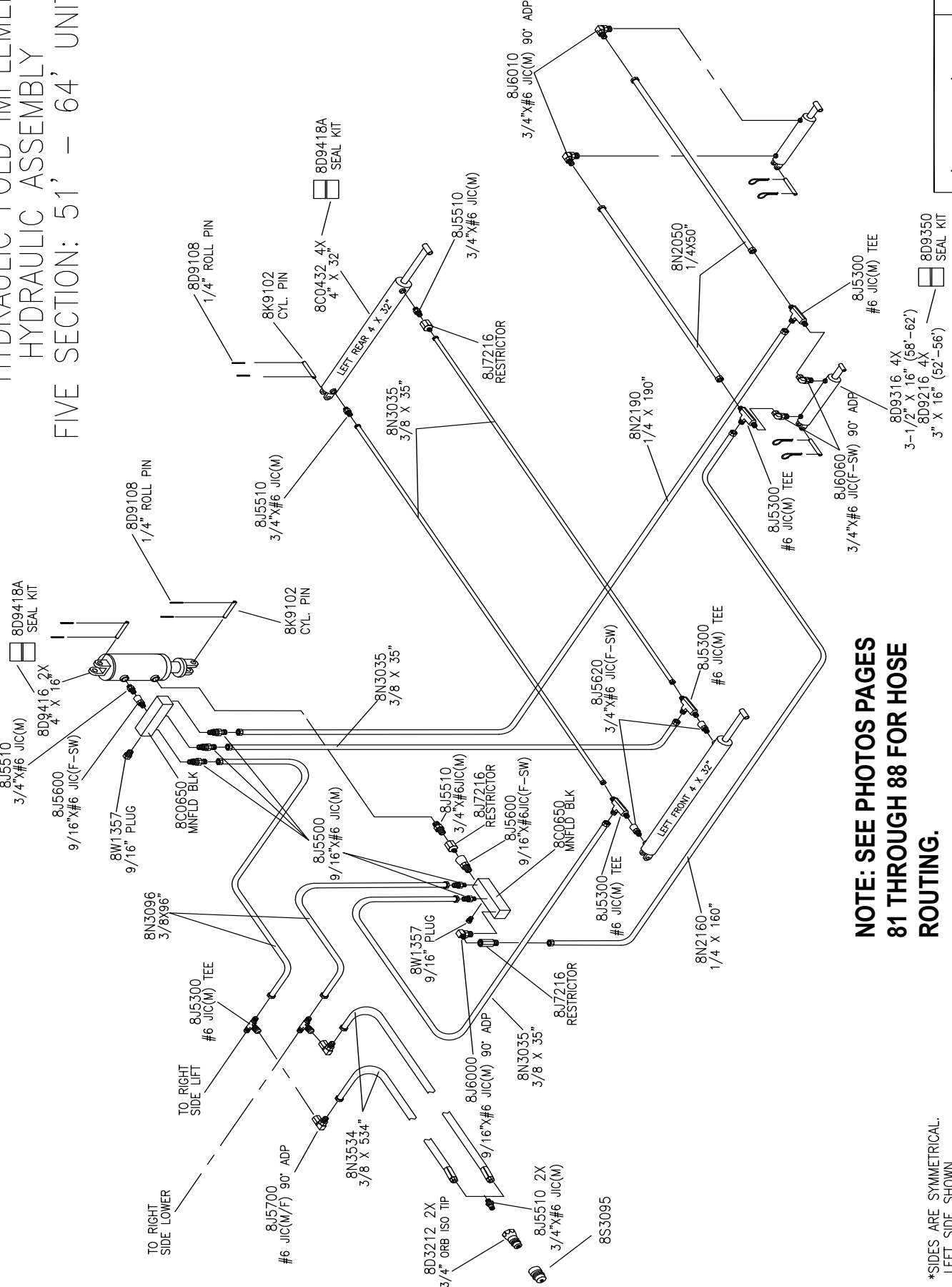
\*SIDES ARE SYMMETRICAL.  
 LEFT SIDE SHOWN.

|                         |         |
|-------------------------|---------|
| 46' THROUGH 50' HYD JIC | 3/19/18 |
|-------------------------|---------|



SECTION 4 - PARTS

HYDRAULIC FOLD IMPLEMENT  
 HYDRAULIC ASSEMBLY  
 FIVE SECTION: 51' - 64' UNITS



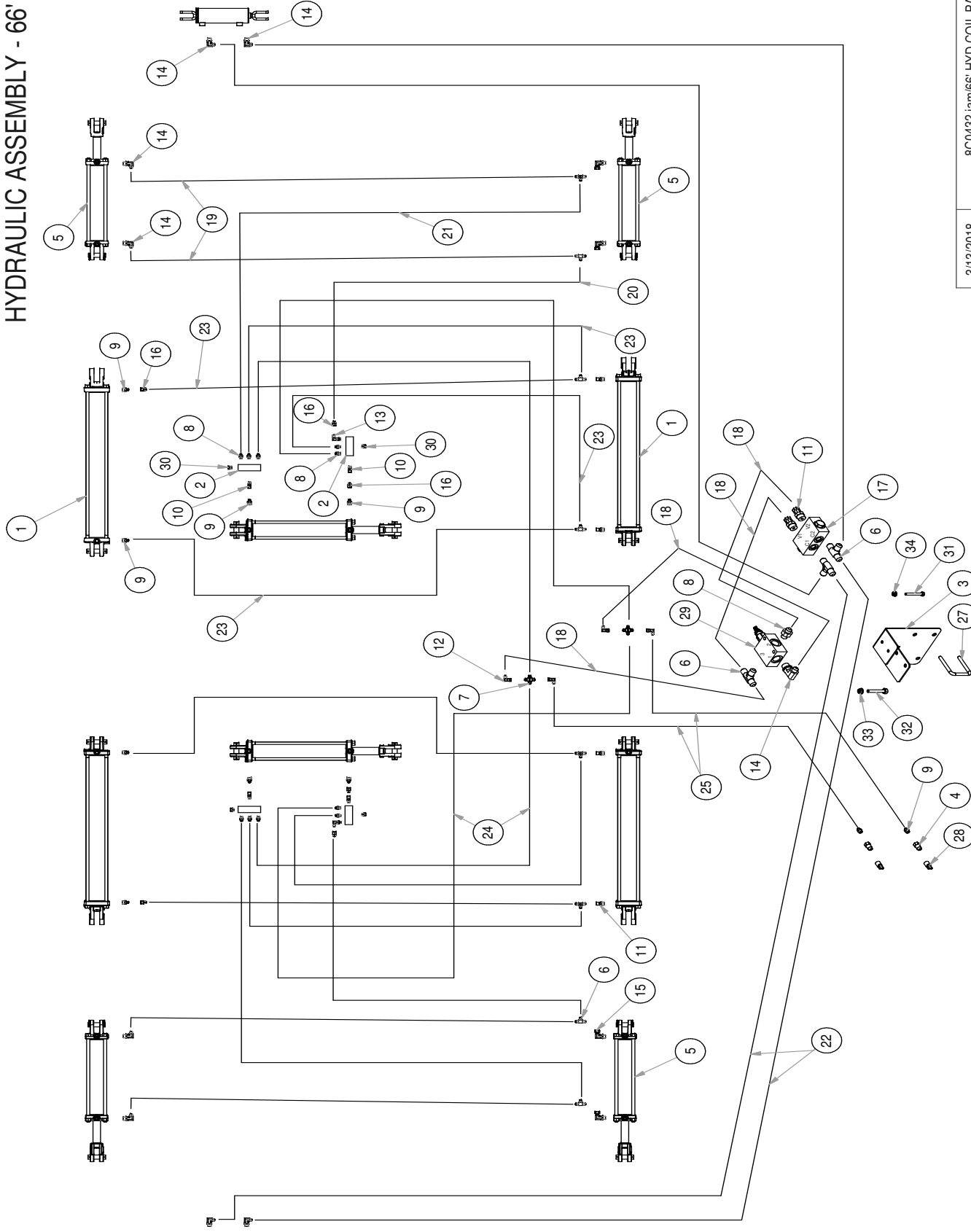
**NOTE: SEE PHOTOS PAGES  
 81 THROUGH 88 FOR HOSE  
 ROUTING.**

\*SIDES ARE SYMMETRICAL.  
 LEFT SIDE SHOWN.

51' THROUGH 64' HYD JIC 3/13/18

SECTION 4 - PARTS

HYDRAULIC FOLD IMPLEMENT  
HYDRAULIC ASSEMBLY - 66'

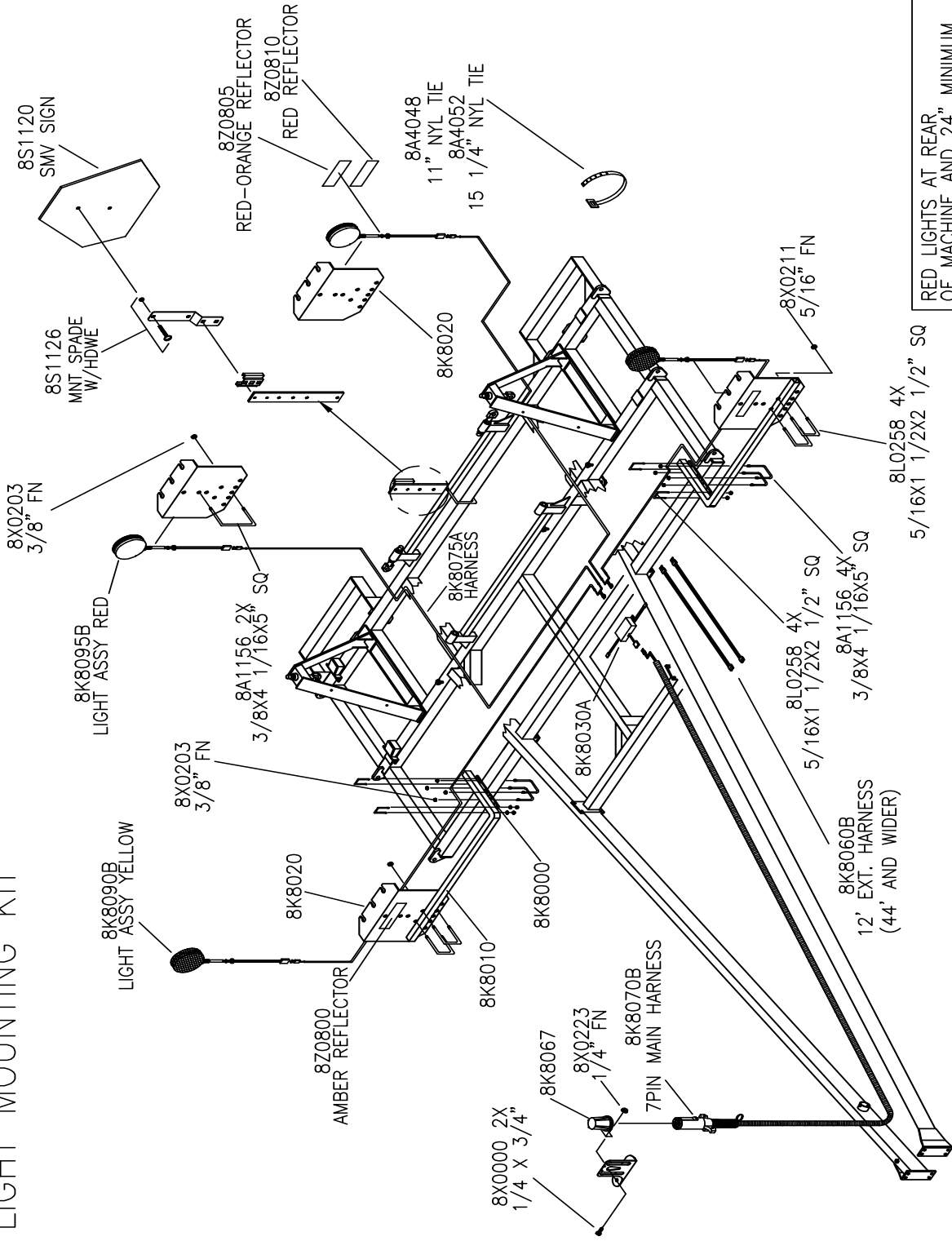


| ITEM# | PN     |
|-------|--------|
| 1     | 8C0432 |
| 2     | 8C0650 |
| 3     | 8C2290 |
| 4     | 8D3212 |
| 5     | 8D9416 |
| 6     | 8J5300 |
| 7     | 8J5350 |
| 8     | 8J5500 |
| 9     | 8J5510 |
| 10    | 8J5600 |
| 11    | 8J5620 |
| 12    | 8J5700 |
| 13    | 8J6000 |
| 14    | 8J6010 |
| 15    | 8J6060 |
| 16    | 8J7216 |
| 17    | 8L0036 |
| 18    | 8N2018 |
| 19    | 8N2050 |
| 20    | 8N2160 |
| 21    | 8N2190 |
| 22    | 8N2432 |
| 23    | 8N3035 |
| 24    | 8N3096 |
| 25    | 8N3534 |
| 26    | 8P0306 |
| 27    | 8S0282 |
| 28    | 8S3095 |
| 29    | 8T8100 |
| 30    | 8W1857 |
| 31    | 8X0009 |
| 32    | 8X0023 |
| 33    | 8X0211 |
| 34    | 8X0223 |

3/13/2018 8C0432.iam/66' HYD COIL PACKER

SECTION 4 - PARTS

HYDRAULIC FOLD IMPLEMENT  
LIGHT MOUNTING KIT



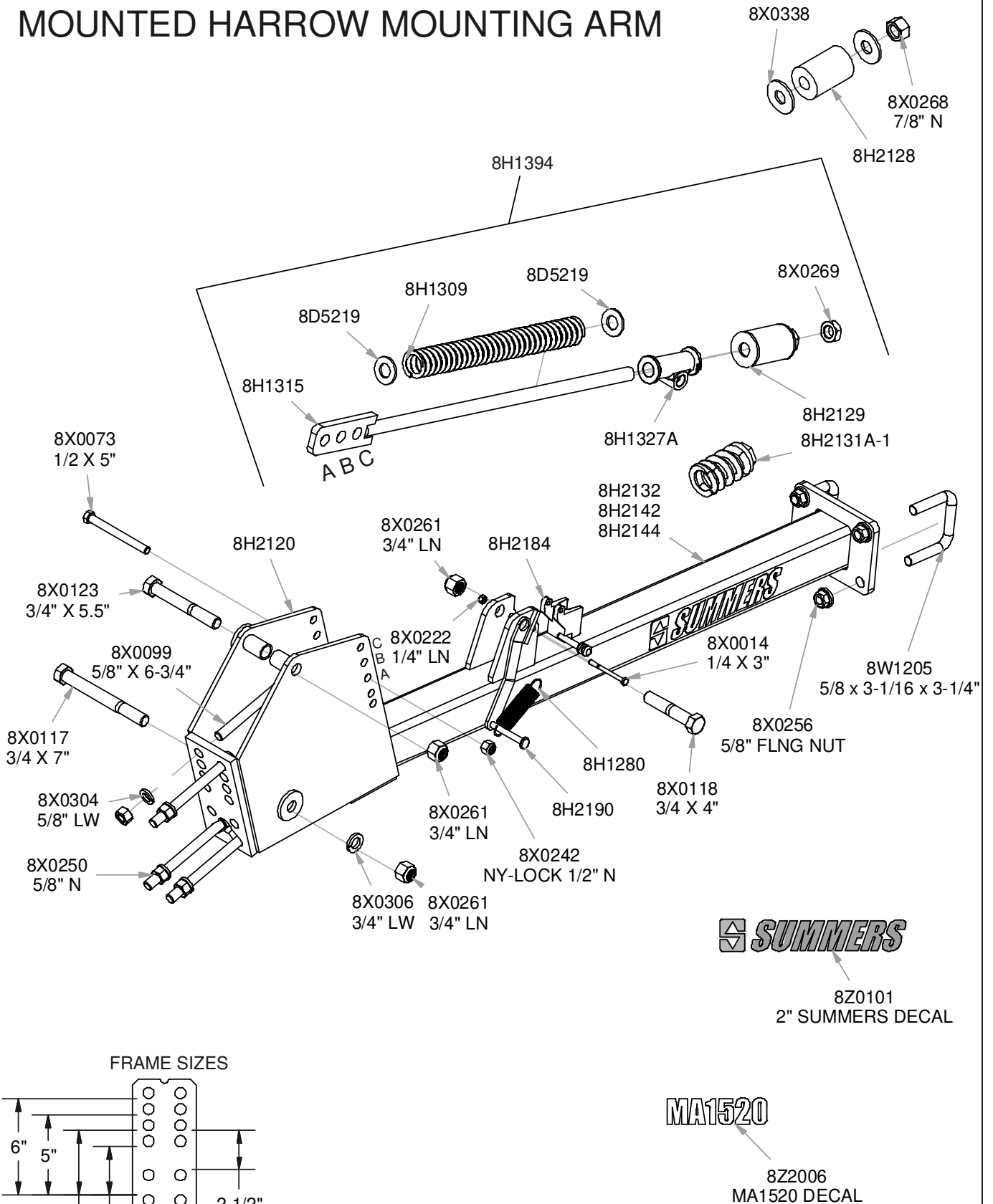
RED LIGHTS AT REAR  
OF MACHINE AND 24" MINIMUM  
FROM CENTERLINE (60" MAXIMUM)

YELLOW LIGHTS AT 16" MAXIMUM  
INSIDE WIDEST PART OF MACHINE

8K8125 4/3/18

SECTION 4 - PARTS

MOUNTED HARROW MOUNTING ARM



9/18/2018

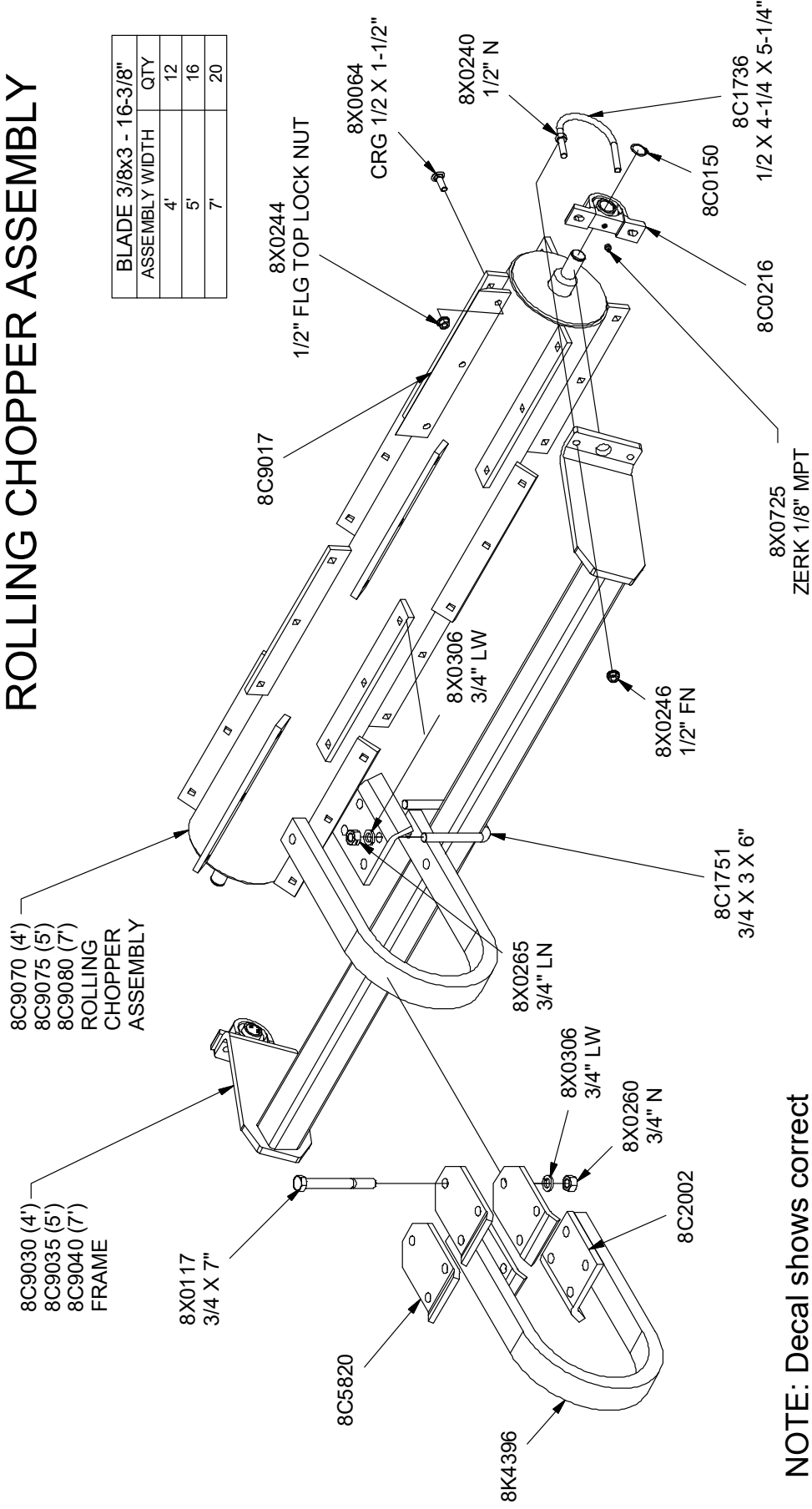
8H2314.iam/MH MNTNG ARM ASSY



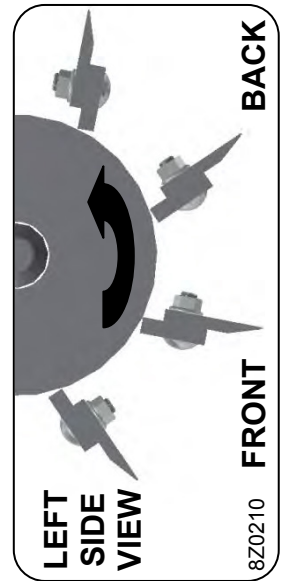
**SECTION 5 - PART NUMBERS & DESCRIPTIONS**

**ROLLING CHOPPER ASSEMBLY**

| BLADE 3/8x3 - 16-3/8" | QTY |
|-----------------------|-----|
| ASSEMBLY WIDTH        | 12  |
| 4'                    | 16  |
| 5'                    | 20  |
| 7'                    |     |



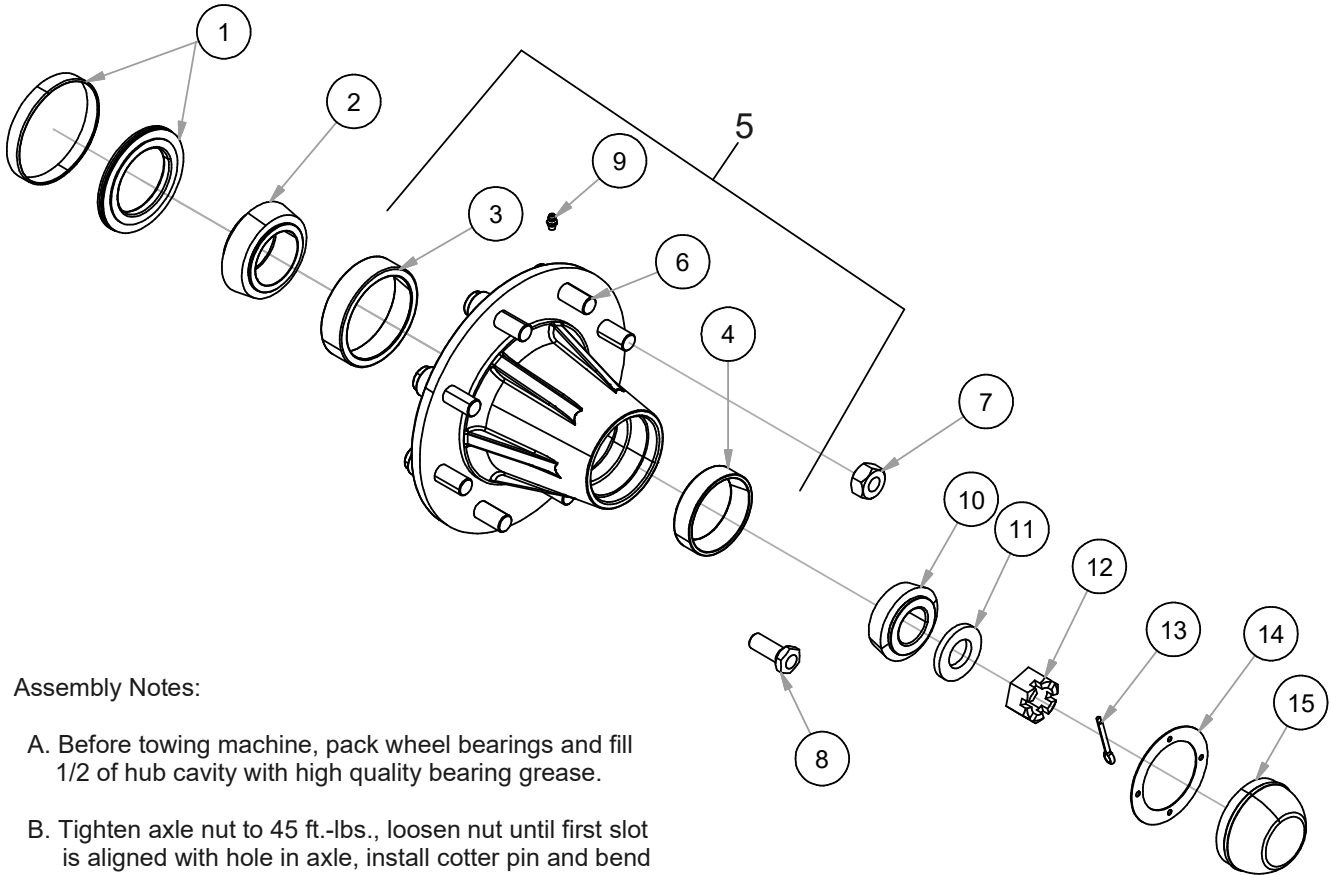
**NOTE:** Decal shows correct orientation of Rolling Chopper.



8Z0210

9/18/2012 HFRC\_CHIPPR\_ASSEMBLY

## SECTION 5 - PART NUMBERS & DESCRIPTIONS



**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.

| 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 BOLT |        |
|-----------|---------------------|------------------|---------------|---------------|-------------|---------------|---------------|---------------|-------------|-------------------|-----------------|--------------|----------------|--------------------|------------------|--------|
| H211      | 8G8220              | 8G8217           | 8G8230        | 8G8230        | 8G8211      | N/A           | N/A           | 8D5114        | 8X0708      | 8G8217            | 8D5119          | 8D5112       | 8X0410         | N/A                | 8G821B           | N/A    |
|           | SE10                | L44643           | 8L44610       | L44610        | HDA211      |               |               | WB10          | 1/4-28NF    | L44643            | 3/4" ID.        | 3/4"-16      | 3/16X1"        |                    | DC11             |        |
| H517      | 8D5234              | 8D5217           | 8D5332        | 8D5336        | 8D5210      | 8D5215        | 8D5214        | N/A           | 8X0708      | 8D5117            | 8S5219          | 8D5212       | 8X0415         | N/A                | 8D521B           | N/A    |
|           | 8D5236              | LM48548          | LM48510       | LM67010       | H517        | WB16          | 1/2-20UNF     |               | 1/4-28NF    | LM67048           | 7/8" ID.        | 7/8"-14      | 3/16X1-1/2"    |                    | DC1B             |        |
| H611      | 8D5221              | 8D5317           | 8D5334        | 8D5336        | 8D5311-09   | N/A           | N/A           | 8D5114        | 8X0708      | 8D5117            | 8D5319          | 8D5312       | 8X0415         | N/A                | 8D521B           | N/A    |
|           | SEB                 | LM29749          | LM29710       | LM67010       | H611        |               |               | WB10-09       | 8R6914      | 1/4-28NF          | LM67048         | 1" ID.       | 1"-14          |                    | 3/16X1-1/2"      | DC1B   |
| H614      | 8R6922**            | 8R6917           | 8R6925        | 8D5332        | 8R6911      | N/A           | N/A           | 8R6914        | 8X0708      | 8D5217            | 8D5319          | 8D5312       | 8X0415         | N/A                | 8R691B           | N/A    |
|           | SEGBGI INSTRUCTIONS | LM603049         | LM603011      | LM48510       | H614        |               |               | WB12          | 1/4-28NF    | LM48548           | 1" ID.          | 1"-14        | 3/16X1-1/2"    |                    | DC15             |        |
| HD812     | 8K7127***           | 8K7117           | 8K7130        | 8K7132        | 8K7111      | 8K7115-9/16** | 8K7116-9/16** | N/A           | 8X0708      | 8K7118            | 8D5319          | 8D5312       | 8X0415         | N/A                | 8K711B           | N/A    |
|           | SEAL SE77           |                  |               |               |             | 8K7122-5/8"   | 8K7123-5/8"   |               |             |                   |                 |              |                |                    |                  |        |
|           | 8K7128***           |                  |               |               |             | WB41          | WB40          |               |             |                   |                 |              |                |                    |                  |        |
|           | SLEEVE SE77-1       | LM3780           | LM3720        | LM2720        | HD812       | WB46          | WB118         | 1/4-28NF      | LM2790      | 1" ID.            | 1"-14           | 3/16X1-1/2"  | DC17           |                    |                  |        |
| 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 ID.       | 1-1/4"-12    | 1/4X2"         |                    | DC26             |        |
| H1010 LT  | 8K7220              | 8K7217           | 8K7230        | 8K7232        | 8K7211      | 8K7215        | 8K7216        | N/A           | 8X0708      | 8K7218            | 8X0328          | 8D5314       | 8X0414         | 8K7212             | 8K721B           | 8K7214 |
|           | SE48                | 39585            | 39520         | 453A          | H1010-9     | WB51          | WB52          |               | 1/4-28NF    | 460               | 1.312 ID.       | 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             | 8K721B           | 8K7214 |
|           | SE67                | 33275            | 33462         | 453A          | H1010-11    | WB51          | WB52          |               | 1/4-28NF    | 460               | 1.312 ID.       | 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             | 8K731B           | 8K7214 |
|           | SE55                | HM218248         | HM218210      | HM212010      | HDA1020     | WB51          | WB52          |               | 1/4-28NF    | HM212049          | 2.03" ID        | 2" - 12WB65  | 5/16 X2-1/2"   | SE59               | DC28             | WB53   |

\*Pre 2000

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

\*\*\*Pre 2006 8K7120 (SE17)

**PART NUMBERS**

**WITH**

**DESCRIPTIONS**



## SECTION 5 - PART NUMBERS & DESCRIPTIONS

|         |                                      |        |                                |
|---------|--------------------------------------|--------|--------------------------------|
| 7C1726  | TUBE 2-5/8X2.026ID- 6.5" RETRO       | 8C5060 | DROP EXTNSN HTCH HYD FOLD 06-  |
| 7C4040  | COIL SHAFT (4') 2"HR1045- 59"        | 8C5070 | EXTENSION HTCH 5' HYD FOLD 91- |
| 7C4050  | COIL SHAFT (5') 2"HR1045- 71"        | 8C5080 | HITCH TUBE LEFT 20' (18'-50')  |
| 7C4055  | COIL SHAFT(5.5')2"HR1045- 77"        | 8C5084 | HITCH TUBE LEFT 24' (51'-64')  |
| 7C4060  | COIL SHAFT (6') 2"HR1045- 83"        | 8C5090 | HITCH TUBE RGHT 20' (18'-50')  |
| 7C4070  | COIL SHAFT (7') 2"HR1045- 95"        | 8C5094 | HITCH TUBE RGHT 24' (51'-64')  |
| 8A1004  | CLAMP HOSE 5" #72                    | 8C5097 | EXTENSION HTCH 3' HYD FOLD 09- |
| 8A1155  | U-BOLT 3/8 X 6-1/16 X 5" SQ          | 8C5100 | EXTENSION HTCH 9' HYD FOLD     |
| 8A1156  | U-BOLT 3/8 X 4-1/16 X 5" SQ          | 8C5110 | STIFFENER "T" HTCH (51'-64')   |
| 8A1157  | U-BOLT 3/8 X 4-1/16 X 7" SQ          | 8C5115 | STIFFNR FRNT HTCH 46-64'(31")  |
| 8A4048  | NYLON TIE .18 X 11"                  | 8C5120 | BRACE FRNT CNTR 46-50'(192")   |
| 8A4050  | NYLON TIE .30 X 8-7/8"               | 8C5130 | BRACE ANGLE LEFT46-50' (32")   |
| 8A4052  | NYLON TIE .30 X 15-1/4"              | 8C5132 | BRACE ANGL LEFT 51-64' (72")   |
| 8A4054  | NYLON TIE .30 X 21.5"                | 8C5134 | BRACE ANGL LEFT 66' (90") 17-  |
| 8C0150  | SNAP RING .05" FOR 1-3/16"DIA        | 8C5135 | BRACE ANGLE RGHT46-50' (32")   |
| 8C0202  | BEARING INSERT P206 SETSCREW         | 8C5136 | BRACE ANGL RGHT 66' (90") 17-  |
| 8C0206  | BEARING PILLOWBLCK 1-3/16"TRPL       | 8C5137 | BRACE ANGL RGHT 51-64' (72")   |
| 8C0216  | BEARING PLWBLCK 1-3/16" HD 11-       | 8C5140 | STOP WING(U-BLT)46-64' HYD FLD |
| 8C0250  | NEOPRENE 1-3/8X 1/2ID- 2" 96-        | 8C5152 | CENTER FRAME 51-66'HYDFLD 01-  |
| 8C0270  | SPLITSTEELBUSH 1.375X 1"ID- 1"       | 8C5156 | 4SQ ATTCH RRCNTR 51-64' 06-    |
| 8C0432  | HYD CYL 4 X 32" 3000PSI              | 8C5160 | BRACE ANGL 2.5X2.5X1/4- 47.75" |
| 8C0532  | HYD CYL 5 X 32" 3500PSI              | 8C5166 | CROSS SUPPORT TRUSS 18-        |
| 8C0535  | SEAL KIT 5 X32"RAM3000&3500PSI       | 8C5170 | CROSSBRACE FRNTGAUGWHL(61.5")  |
| 8C0650  | MANIFOLD BLOCK ALUMINUM 5PORT        | 8C5178 | CROSSBRACE W/TRUSSPLT 18-      |
| 8C1470  | PIN 1-1/4 X 14" PIVOT 90-            | 8C5180 | CROSSBRACE MDDLGAUGWHL(43.5")  |
| 8C1482  | PIN 1-1/2 X 14" PIVOT 17-            | 8C5190 | CROSSBRACE W/CYLATCH 46-50'    |
| 8C1700  | U-BOLT 3/8 X 2 X 4-7/8" SQ           | 8C5192 | CROSSBRACE W/DBL CYL 51-64'    |
| 8C1702  | U-BOLT 3/8 X 8 X 5" SQ               | 8C5193 | CROSSBRACE W/DBL CYL 66' 18-   |
| 8C1710  | U-BOLT 3/8 X 8 X 9" SQ               | 8C5200 | WING PRT1-REAR (21-32') 63"    |
| 8C1718  | U-BOLT 1/2 X 2-5/8 X 2-5/8" SQ       | 8C5210 | WING PRT1-FRNT (21-32') 63"    |
| 8C1720  | U-BOLT 1/2 X 2-5/8 X 3-3/4" SQ       | 8C5250 | WING PRT1-REAR (30-38') 104"   |
| 8C1736  | U-BOLT 1/2 X 4-1/4 X 5-1/4"RND       | 8C5260 | WING PRT1-FRNT (34-42') 104"   |
| 8C1740  | U-BOLT 1/2 X 4-1/4 X 7-1/4"RND       | 8C5270 | WING PRT1-FRNT44' HFPC 145"    |
| 8C1750  | U-BOLT 3/4 X 3 X 5-1/2" SQ           | 8C5280 | WING PRT1-REAR (40-44') 120"   |
| 8C1751  | U-BOLT 3/4 X 3-1/16 X 6" SQ          | 8C5300 | WING PRT1-FRNT (46-50') 120"   |
| 8C1755  | U-BOLT 3/4 X 6 X 6" SQ               | 8C5310 | WING PRT1-REAR (46-50') 120"   |
| 8C1760  | U-BOLT 3/4 X 8 X 6" SQ               | 8C5370 | WING PRT1-FRNT/RR (51-64')145" |
| 8C2002  | STL 5/8X6-6.94"BNT1.25SHNK12-        | 8C5372 | WING PRT1-FRNT/RR (66')145"    |
| 8C2290  | HYD. BLOCK BRKT 18-                  | 8C5402 | WING ASSY PRT2 (46-57') 62.8"  |
| 8C2300  | OSCILLATNG AXLE 614 HFPC 90-         | 8C5412 | WING ASSY PRT2 (58-62') 84.5"  |
| 8C2310  | OSC AXLE W/614 HUBS HFPC 91-         | 8C5414 | WING ASY LEFT PT2 66' 17-      |
| 8C2312  | OSC AXLE W/812 HUBS HFPC 17-         | 8C5416 | WING ASSY RIGT PT2 66' 17-     |
| 8C2316  | SPACER FLAT1/2X2.5- 8-7/8" 01-       | 8C5430 | WING ASSY PRT3 66' 17-         |
| 8C2320  | MNT BRCKT 614 OSC AXL HFPC 91-       | 8C5500 | AXLE ASSY WING W/O 611HUB 93-  |
| 8C2330  | AXLE W/FLAT 614 SNGL HFPC 90-        | 8C5510 | AXLE ASSY WING W/611HUB HFPC   |
| 8C2340  | AXLE W/614 HUB SNGL HFPC 90-         | 8C5600 | LIFTARM W/CYL ATCH CNTR HFPC   |
| 8C3080  | TUBE SQ 4X4T-141" GRN 18-            | 8C5605 | LIFTARM CNTR 1.5" PIN HFPC     |
| 8C4410  | COIL 4' X 1-3/4" W/SHAFT LEFT        | 8C5610 | LIFTARM W/CYLATCH N-CNTR 09-   |
| 8C4415  | COIL 4' X 1-3/4" W/SHAFT RGHT        | 8C5650 | TRANSPORT LOCK21"(1.75"ROD)91- |
| 8C4424L | COIL 4' X 1-3/4" X 24" W/SHAFT LEFT  | 8C5820 | STL 1/2 X 5- 7.75"SPRNG MNT00- |
| 8C4424R | COIL 4' X 1-3/4" X 24" W/SHAFT RIGHT | 8C5840 | PULL FRAME 4' COIL (59") 06-   |
| 8C4510  | COIL 5' X 1-3/4" W/SHAFT LEFT        | 8C5844 | PULL FRAME 24" COIL 4'(59")17- |
| 8C4515  | COIL 5' X 1-3/4" W/SHAFT RGHT        | 8C5850 | PULL FRAME 5' COIL (71") 06-   |
| 8C4524L | COIL 5' X 1-3/4" X 24" W/SHAFT LEFT  | 8C5854 | PULL FRAME 24" COIL 5'(71")17- |
| 8C4524R | COIL 5' X 1-3/4" X 24" W/SHAFT RIGHT | 8C5860 | PULL FRAME 6' COIL (83") 06-   |
| 8C4560  | COIL 5.5' X 1-3/4"W/SHAFT LEFT       | 8C5864 | PULL FRAME 24" COIL 6'(83")17- |
| 8C4565  | COIL 5.5' X 1-3/4"W/SHAFT RGHT       | 8C5870 | PULL FRAME 7' COIL (95") 06-   |
| 8C4610  | COIL 6' X 1-3/4" W/SHAFT LEFT        | 8C5874 | PULL FRAME 24" COIL 7'(95")17- |
| 8C4615  | COIL 6' X 1-3/4" W/SHAFT RGHT        | 8C5910 | LINK STRAIGHT 3/4"180°FLD HFPC |
| 8C2624L | COIL 6' X 1-3/4" X 24" W/SHAFT LEFT  | 8C5920 | LINK CURVED 5/8" 180°FOLD HFPC |
| 8C2624R | COIL 6' X 1-3/4" X 24" W/SHAFT RIGHT | 8C5922 | LINK CURVED 3/4" 180°FOLD HFPC |
| 8C4710  | COIL 7' X 1-3/4" W/SHAFT LEFT        | 8C5980 | TUBE W/WSHR 1"IDPRT2FLD HFPC   |
| 8C4715  | COIL 7' X 1-3/4" W/SHAFT RGHT        | 8C6000 | TUBE 1-5/8ODX 1"ID- 1-1/8" 91- |
| 8C5050  | CHANNEL HTCH(7D6120)W/HLS 91-        | 8C6010 | WASHER 1.03"ID X 3-1/16"ODX1/4 |

## SECTION 5 - PART NUMBERS & DESCRIPTIONS

|         |                                |          |                                 |
|---------|--------------------------------|----------|---------------------------------|
| 8C6015  | WASHER 1.53"ID X 3-1/16"ODX1/4 | 8G8020   | U-BOLT 3/8 X 2-9/16 X 3-1/2"SQ  |
| 8C6110  | PIPE TRNSLCK1/2"S80- 4-1/8"99- | 8H1150   | HARROW TOOTH 3/8 X18.5" M94     |
| 8C6120  | FLAT TRNS LCK 3/8X4- 30" 99-   | 8H1150S  | HARROW TOOTH 3/8 X18.5"M94 STR  |
| 8C9010  | BRACE MNTNG ARM RLANGCHPR 09-  | 8H1180S  | HARROW TOOTH 1/2 X 20" M104/SH  |
| 8C9017  | BLADE 3/8X3- 16-3/8" PNTD 06-  | 8H1183S  | HARROW TOOTH 1/2 X 25" M105     |
| 8C9030  | FRAME 3"SQ 4' 2" ROLNGCHPR 06- | 8H1184S  | HARROW TOOTH 1/2X 26"M105/SH26  |
| 8C9035  | FRAME 3"SQ 5' 3" ROLNGCHPR 06- | 8H1280   | SPRING EXTENSION 1"OD X 4" YZ   |
| 8C9040  | FRAME 3"SQ 7' ROLLNGCHPPR 07-  | 8H1307   | SPRING PRESS 1.54OD- 15" 70#/"  |
| 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- | 8H1394   | SUPPORT ROD ASSY 7/8" MNTD 09-  |
| 8D0330  | U-BOLT 5/8 X 6-1/16 X 5-5/8"SQ | 8H1498   | SPACER TUBE 4 X 3 X5T- 5"       |
| 8D0340  | U-BOLT 3/4 X 4 X 7-3/4" SQ     | 8H1499   | SPACER TUBE 4 X 2 X4T- 5"       |
| 8D0350  | U-BOLT 3/4 X 4 X 10" SQ        | 8H1504   | SPACER TUBE 4 X 4 X4T- 5"       |
| 8D0720  | HITCH PIECE CAST CAT.3CTD PNTD | 8H1510   | MNT PLATE(FLAT1/2X5-10") 6"MAX  |
| 8D0722  | PERFECT HTCH BACKSTOP W/HDWE   | 8H1512   | MNT PLATE(FLAT1/2X5-16")11"MAX  |
| 8D0724  | CLEVIS OPT.HITCH CAT.3CTD99-   | 8H1520   | MNT BRACKET SHORT (13") UNIV    |
| 8D0730  | URETHANE CUSHION PERFCTHTCH    | 8H1522   | MNT BRACKET SHORT (20") HI-CLR  |
| 8D2460  | SAFETY CHAIN 20200# 3/8" X 4'  | 8H1530   | MNT BRACKET LONG (25") UNIV     |
| 8D2470  | SAFETY CHAIN 30400# 7/16" X 5' | 8H1532   | MNT BRACKET LONG (29") HI-CLR   |
| 8D3016  | TIRE 7.60 X 15" 8PLY TUBELESS  | 8H2010   | PIPE SPACER 3/4 X 1" 88-        |
| 8D3030  | WHEEL 15 X 6" 6 BOLT           | 8H2100   | STL 5/8 X 4- 8-3/8" PNTD 88-    |
| 8D3031  | 7.60X15 8PLY ON 15X6X6 WHEEL   | 8H2131   | ADJ NUT W/WLDD SPRING 7/8 09-   |
| 8D3035  | WHEEL 15 X 8" 6 BOLT-VLV GRD   | 8H2132   | CARRIER ARM 34" M94-108 & BSKT  |
| 8D3150  | U-BOLT 1/2 X 3 X 7-1/4" SQ     | 8H2142   | CARRIER ARM 42" M94 - M108      |
| 8D3152  | U-BOLT 1/2 X 3-3/8 X 7-1/4" SQ | 8H2144   | CARRIER ARM 52" M94 - M108      |
| 8D3212  | MALE TIP 3/4"-16 ORB ISO       | 8H2184   | AUTOLCKUP 7/8" DRLD&PNTD 09-    |
| 8D5114  | BOLT WHEEL 1/2-20 UNF          | 8H2190   | HANDLE W/PIN AUTOLCKUP 94-108   |
| 8D5117  | BEARING413 511 517&611 LM67048 | 8H2300   | MNTG ARM ASSY 34" M94-M108      |
| 8D5213  | HUB CAP H517 & H611            | 8H2310   | MNTG ARM ASSY 42" M94-M108      |
| 8D5217  | BEARING IN 517 OUT 614 & 618   | 8H2314   | MNTG ARM ASSY 52" M94-M108      |
| 8D5219  | WASHER 7/8" AXLE               | 8H2315   | EXTENSION MNT ARM 6" M94-M108   |
| 8D5221  | SEAL 1.75" ID H611 SE13        | 8HD0080  | PIPE CLAMP 2-1/2" ID PLATED Z   |
| 8D5312  | NUT 1"-14TPI HEX SLOT GR2 PLN  | 8HD0150  | PIN ADJSTMNT 5/8X9.75" YZ 95-   |
| 8D5314  | NUT 1-1/4"-12 HEX SLOT GR2 PLN | 8HD0160  | SPRING TINE ADJ.COMP.ZINC95-    |
| 8D5316  | HUB H611 W/CUPS&ZRK 6(9/16)BLT | 8HD0200  | U-BOLT 1/2 X 2-3/8X 3-9/16"RND  |
| 8D5317  | BEARING INNER 611 LM29749      | 8HD5052  | 1ST PIPE W/LVR 6' 104/6 3OR4BR  |
| 8D5319  | WASHER 1" AXLE                 | 8HD5054  | 2ND PIPE W/LVR 6' 104/6 3OR4BR  |
| 8D5332  | RACE H517 & H614 LM48510       | 8HD5056Q | 3RD PIPE/LVR6' 3BR104/6QADJ00-  |
| 8D5334  | RACE INNER H611 LM29710        | 8HD5057  | 3RD PIPEW/LVR 6' 104/6 4BR 98-  |
| 8D5336  | RACE H511 H517 & H611 LM67010  | 8HD5058Q | 4TH PIP/LVR6' 4BR104/6 QADJ02-  |
| 8D8490  | PIONEER/ISO TIP HLDR BNT 97-   | 8HD5072  | 1ST PIPE W/LVR 8' 104/6 3OR4BR  |
| 8D8500  | HYD HOSE HOLDER PNTD BLK 91-   | 8HD5074  | 2ND PIPE W/LVR 8' 104/6 3OR4BR  |
| 8C8502  | HYD HOSE HOLDER H-DUTY BLK 14- | 8HD5076Q | 3RD PIP/LVR8' 3BR104/6 QADJ00-  |
| 8D8521  | JACK SPOOL 3 X 2.56- 1-29/32"  | 8HD5077  | 3RD PIPEW/LVR 8' 104/6 4BR 98-  |
| 8D8522  | JACK 5000# TOP CRANK 15"LIFT   | 8HD5078Q | 4TH PIP/LVR8' 4BR104/6 QADJ02-  |
| 8D8523  | JACK 8000# DROPLEG 5/8X4.25PIN | 8HD5082  | 1ST PIPE W/LVR10' 104/6 3OR4BR  |
| 8D9102  | PIN 1 X 4" CYL CTTR OR HAIRPIN | 8HD5084  | 2ND PIPE W/LVR10' 104/6 3OR4BR  |
| 8D9108  | ROLL PIN 1/4 X 2" YLW ZNC      | 8HD5086Q | 3RDP/IP/LVR10' 3BR104/6 QADJ00- |
| 8D9110  | HAIRPIN CLIP LARGE (1"CYL PIN) | 8HD5087  | 3RD PIPEW/LVR10' 104/6 4BR 98-  |
| 8D9111  | SEAL KIT PRINCE 8D9112/BA-0669 | 8HD5088Q | 4THPIP/LVR10' 4BR104/6 QADJ02-  |
| 8D9216  | HYD CYL 3 X 16" 3000PSI        | 8HD5094  | EXT PIPE2.375"ODX.148- 12" 01-  |
| 8D9250  | SEAL KIT 3 X16"LION/MONRCH 95- | 8HD5096  | EXT TUBE1.5SQ11GA-23-3/4"01-    |
| 8D9316  | HYD CYL 3.5 X 16" 3000PSI      | 8HD5101  | SIDE PLT 1/4"3BR 104/6 LEFT00-  |
| 8D9350  | SEAL KIT 3.5X16LION/MONRCH 95- | 8HD5102  | SIDE PLT 1/4"3BR 104/6 RGHT00-  |
| 8D9416  | HYD CYL 4 X 16" 3000PSI        | 8HD5105  | SIDE PLT5/16"4BR 104/6 LEFT00-  |
| 8D9418A | SEAL KIT4X16&32PRNC3000PSI 94- | 8HD5106  | SIDE PLT5/16"4BR 104/6 RGHT00-  |
| 8G2281  | NYLON TIE .187 X 7-1/2" BROWN  | 8HD5115  | CONNCTNG BAR (3/8X2-17.5) 00-   |
| 8G2282  | NYLON TIE .187 X 7-1/2" RED    | 8HD5120  | CONNCTNG BAR (3/8X2X30.5) 93-   |
| 8G2283  | NYLON TIE .187 X 7-1/2" ORANGE | 8HD5140  | CROSS TUBE W/FLATS 6' M104/106  |
| 8G2284  | NYLON TIE .187 X 7-1/2" YELLOW | 8HD5150  | CROSS TUBE W/FLATS 8' M104/106  |
| 8G2285  | NYLON TIE .187 X 7-1/2" GREEN  | 8HD5160  | CROSS TUBE W/FLATS 10' M104/06  |
| 8G2286  | NYLON TIE .187 X 7-1/2" BLUE   | 8HD5180  | EXT BRCKT M94-106 2ND ARM 15"   |
| 8G8010  | U-BOLT 3/8 X 1-5/16 X 2-1/4"SQ | 8J5100   | #6 JIC(M) X #6 JIC(M) UNION     |

## SECTION 5 - PART NUMBERS & DESCRIPTIONS

|         |                                 |        |                                |
|---------|---------------------------------|--------|--------------------------------|
| 8J5298  | TEE #6 SWIVELNUTRUN(M+M+F-SW)   | 8K9108 | PIN 1-1/4 X 5-1/8" HRDND 3/8HL |
| 8J5300  | TEE #6 JIC (MALE) 3X            | 8K9220 | ANGLE 6X6X1/2- 6.25" WGHY PKG  |
| 8J5350  | CROSS #6 JIC(M4X)               | 8K9230 | SUITCASE WGHY PNTD 1.25"- 70#  |
| 8J5500  | 9/16"-18 ORB X #6 JIC(M) STR    | 8L0036 | DOUBLE PILOT OPERATED CHECK    |
| 8J5510  | 3/4"-16 ORB X #6 JIC(M) STR     | 8L0258 | U-BOLT 5/16 X 1-1/2 X 2-1/2"SQ |
| 8J5520  | 3/4"-16 ORB X #10 JIC(M) STR    | 8N2018 | 1/4X 18"HYD HOSE #6FJX3000PSI  |
| 8J5600  | 9/16"-18 ORB X #6 JIC(F-SW)STR  | 8N2050 | 1/4X 50"HYD HOSE #6FJX3000PSI  |
| 8J5620  | 3/4"-16 ORB X #6 JIC(F-SW)STR   | 8N2160 | 1/4X 160"HYD HOSE #6FJX3000PSI |
| 8J5680  | 3/4"-16 ORB X 3/4"-16ORB UNION  | 8N2190 | 1/4X 190"HYD HOSE #6FJX3000PSI |
| 8J5690  | 3/4-16X3/4-16 ORB M-SW90*UNION  | 8N2432 | 1/4X 432"HYD HOSE #6FJX3000PSI |
| 8J5700  | #6 JIC(F-SW) X #6 JIC(M)90*ADP  | 8N3018 | 3/8X 18"HYD HOSE #6FJX3000PSI  |
| 8J6000  | 9/16"-18 ORB X #6 JIC(M)90*ADP  | 8N3028 | 3/8X 28"HYD HOSE #6FJX3000PSI  |
| 8J6002  | 9/16"-18ORB X #6 JIC(M)BRNCH T  | 8N3035 | 3/8X 35"HYD HOSE #6FJX3000PSI  |
| 8J6004  | 9/16"-18ORB X #6 JIC(M)RUN TEE  | 8N3048 | 3/8X 48"HYD HOSE #6FJX3000PSI  |
| 8J6010  | 3/4"-16 ORB X #6 JIC(M)90*ADP   | 8N3060 | 3/8X 60"HYD HOSE #6FJX3000PSI  |
| 8J6020  | 3/4"-16 ORB X #10 JIC(M)90*ADP  | 8N3070 | 3/8X 70"HYD HOSE #6FJX3000PSI  |
| 8J6060  | 3/4"-16ORB X #6JIC(F-SW)90*ADP  | 8N3084 | 3/8X 84"HYD HOSE #6FJX3000PSI  |
| 8J7000  | BALL VALVE HYD 9/16"-18ORB(2X)  | 8N3096 | 3/8X 96"HYD HOSE #6FJX3000PSI  |
| 8J7040  | THERMAL RELIEF MANIFLD 4000PSI  | 8N3124 | 3/8X 124"HYD HOSE #6FJX3000PSI |
| 8J7116  | 3/4"-16 ORB(2X)1WAY 1/16"RESTR  | 8N3136 | 3/8X 136"HYD HOSE #6FJX3000PSI |
| 8J7216  | #6JIC(M)X6JIC(F)1/16"RSTR GOLD  | 8N3150 | 3/8X 150"HYD HOSE #6FJX3000PSI |
| 8J7232  | #6JIC(M)X6JIC(F)1/32"RSTR SLVR  | 8N3156 | 3/8X 156"HYD HOSE #6FJX3000PSI |
| 8J7250  | RELIEF VLV 2250PSI 9/16"-18ORB  | 8N3160 | 3/8X 160"HYD HOSE #6FJX3000PSI |
| 8J7260  | DUAL OUTLET FEMALE HYD COUPLER  | 8N3180 | 3/8X 180"HYD HOSE #6FJX3000PSI |
| 8K1610  | PIN 3/4 X 6.25" TRNSPRTLCK 84-  | 8N3204 | 3/8X 204"HYD HOSE #6FJX3000PSI |
| 8K1682C | EYEBOLT 1.5"DIAX1"EYEX10-3/8YZ  | 8N3216 | 3/8X 216"HYD HOSE #6FJX3000PSI |
| 8K1750  | EYEBOLT 1.5"DIAX1"EYE YZ 12-    | 8N3228 | 3/8X 228"HYD HOSE #6FJX3000PSI |
| 8K4392  | SPRING SHNK COIL MNT PNTD00-    | 8N3252 | 3/8X 252"HYD HOSE #6FJX3000PSI |
| 8K4396  | SPRING SHNK HD CHPR PNTD 10-    | 8N3276 | 3/8X 276"HYD HOSE #6FJX3000PSI |
| 8K5505  | U-BOLT 3/4 X 2-1/8 X 4-1/4" SQ  | 8N3288 | 3/8X 288"HYD HOSE #6FJX3000PSI |
| 8K5515  | U-BOLT 3/4 X 4 X 6" SQ          | 8N3312 | 3/8X 312"HYD HOSE #6FJX3000PSI |
| 8K5520  | U-BOLT 3/4 X 6-1/8 X 7-1/2" SQ  | 8N3330 | 3/8X 330"HYD HOSE #6FJX3000PSI |
| 8K7025  | TIRE 11L X 15" 10PLY FARM UTIL  | 8N3348 | 3/8X 348"HYD HOSE #6FJX3000PSI |
| 8K7026  | TIRE 11L X 15" LRF TBL5 HWYSRV  | 8N3360 | 3/8X 360"HYD HOSE #6FJX3000PSI |
| 8K7033  | 11L X 15 LRF ON 15X8X6 WHEEL    | 8N3390 | 3/8X 390"HYD HOSE #6FJX3000PSI |
| 8K7035  | 11L X 15 10PLY ON 15X8X6 WHEEL  | 8N3432 | 3/8X 432"HYD HOSE #6FJX3000PSI |
| 8K7042  | 12.5L X 15 LRF ON 15X10X8 WHEEL | 8N3462 | 3/8X 462"HYD HOSE #6FJX3000PSI |
| 8K7123  | NUT 5/8"-18UNF WHEEL BOLT 97-   | 8N3534 | 3/8X 534"HYD HOSE #6FJX3000PSI |
| 8K8000  | STL 7K2045 3/8X3.5 PNTDLGHT09-  | 8N3570 | 3/8X 570"HYD HOSE #6FJX3000PSI |
| 8K8010  | TUBE LGHT BRCKT1.5SQ55.5"00-    | 8P0306 | HYD CYL 3 X 6"3500P 1.25"RD07- |
| 8K8020  | STL 12GA MNTNG BRCKT LIGHT 00-  | 8R6901 | AXLE H614 STR 2"CR X 10"       |
| 8K8030  | MODULE AG ENHNCD LGHT4PIN07-09  | 8R6902 | AXLE H614 STR 2"HR X 11-1/2"   |
| 8K8030A | MODULE AG ENHNCDW/BRAKE6PIN08-  | 8R6911 | HUB H614 W/CUPS&ZRK 6 BLT GBGI |
| 8K8060B | EXT HRNSS 12'6PIN DEUTSCH09-    | 8R6913 | HUB CAP H614 & H618            |
| 8K8067  | DUST CAP FOR 7PIN CONNECT00-    | 8R6914 | BOLT WHEEL 9/16"-18 UNF- 1.25" |
| 8K8068A | MAIN HRNSS7PIN DTSCH SHRT07-09  | 8R6915 | BOLT WHEEL 9/16"-18 UNF- 1.75" |
| 8K8068B | MAIN HRNSS 7PNSHT W/BRAKE 09-   | 8R6917 | BEARING INNER 614              |
| 8K8070A | MAIN HRNSS 7PIN DTSCH 07-09     | 8R6921 | SEAL HD 2" ID (TRPL LIP) H614  |
| 8K8070B | MAIN HRNSS 7PNLNG W/BRAKE 09-   | 8R6922 | SEAL ASSY GBGI H614 HUB 00-    |
| 8K8074  | 2ND IMPLEMENT JUMP HARNESS      | 8R6923 | SEAL ONLY GBGI H614 HUB 00-    |
| 8K8075A | EXT HRNSS NONDRAWBR DTSCH 07-   | 8R6924 | COUNTRFACE GBGI H614 HUB 00-   |
| 8K8080A | EXT HRNSS DRAWBAR DEUTSCH 07-   | 8R6925 | RACE INNER H614 LM603011       |
| 8K8088  | LENS ONLY AMBER GROTE LGHT 00-  | 8R6927 | SEAL SUPPORT GBGI H614 AXLE    |
| 8K8090  | LIGHT AMBER 2WIREWTHRCK 00-08   | 8S0282 | U-BOLT 5/16 X 2 X 2-3/4" SQ    |
| 8K8090A | LIGHT AMBER 2WIRE DEUTSCH 07-   | 8S0340 | U-BOLT 1/2 X 4 X 5-1/4" SQ     |
| 8K8090B | LIGHT LED AMBER 2WR DTSCH 12-   | 8S0360 | U-BOLT 5/8 X 6 X 4-1/2" SQ     |
| 8K8092  | LENS ONLY RED GROTE LIGHT 00-   | 8S1120 | SIGN SLOW MOVING VEHICLE(SMV)  |
| 8K8095  | LIGHT RED 3WIRE WTHRCK 05-08    | 8S1124 | MOUNTING SOCKET SMV SIGN YZ    |
| 8K8095A | LIGHT RED 3WIRE DEUTSCH 07-     | 8S1126 | MNT SPADE W/HRDWR SMV SIGN     |
| 8K8095B | LIGHT LED RED 3WIRE DTSCH 12-   | 8S2980 | HYD HOSE CLAMP-SMALL-NYLON     |
| 8K8105A | EXT HRNSS T 26'2WIRE DTSCH 07-  | 8S2990 | HYD HOSE CLAMP-LARGE-NYLON     |
| 8K8200  | BRCKT SMV ATTCH 4-8"FRAME98-    | 8S3095 | CAPLUG FITS ISO HYD COUPLR 08- |
| 8K8210  | BRCKT W/SCKT SMV ATCH4-8"98-    | 8T3609 | PIN 1-1/2 X 7-1/8" 17-         |
| 8K9102  | PIN 1 X 4" CYL-FOR1/4"ROLL PIN  | 8T4385 | HOLDER MANUAL-PAK 3/4/6MNT09-  |

## SECTION 5 - PART NUMBERS & DESCRIPTIONS

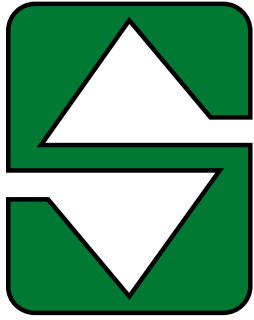
|         |                                 |         |                                     |
|---------|---------------------------------|---------|-------------------------------------|
| 8T4390  | HOLDER STROKE CNTRL 4&6" MNT08- | 8X0080  | BOLT 1/2-13NC X 11" GR5 YZ          |
| 8T8100  | VALVE SEQUENCE WING FOLD 99-    | 8X0082  | BOLT 1/2-13NC X 6-1/2" GR5 YZ       |
| 8W1200  | U-BOLT 1/2 X 2 X 3-1/4" SQ      | 8X0083  | BOLT 1/2-13NC X 8" GR5 YZ           |
| 8W1204  | U-BOLT 1/2 X 3 X 3" SQ          | 8X0084  | BOLT 1/2-13NC X 9" GR5 YZ           |
| 8W1357  | HEX HEAD PLUG 9/16"-18 ORG      | 8X0087  | BOLT 5/8-11NC X 1-1/2" GR5 YZ       |
| 8W1380  | HOLDDOWN HOSE 4&6" WIDTH 81-    | 8X0090  | BOLT 5/8-11NC X 2-1/4" GR5 YZ       |
| 8W1390  | HOLDDOWN HOSE 2" WIDTH 91-      | 8X0091  | BOLT 5/8-11NC X 1-3/4" GR5 YZ       |
| 8X0000  | BOLT 1/4-20X3/4" FLLTHD GR5 YZ  | 8X0092  | BOLT 5/8-11NC X 2-3/4" GR5 YZ       |
| 8X0000B | BOLT 1/4-20NC X 1" GR5 YZ       | 8X0093  | BOLT 5/8-11NC X 2" GR5 YZ           |
| 8X0001  | BOLT 3/8-16NC X 3/4" GR5 YZ     | 8X0095  | BOLT 5/8-11NC X 5" GR5 YZ           |
| 8X0002  | BOLT 3/8-16NC X 1" GR5 YZ       | 8X0096  | BOLT 5/8-11NC X 4" GR5 YZ           |
| 8X0003  | BOLT 1/4-20NC X 4-1/2" GR5 YZ   | 8X0098  | BOLT 5/8-11X 3.5" FULLTHDGR5 YZ     |
| 8X0004  | BOLT 3/8-16NC X 1-1/4" GR5 YZ   | 8X0099  | BOLT 5/8-11X 6.75" W/3.5" THDGR5 YZ |
| 8X0005  | BOLT 1/4-20NC X 3-3/4" GR5 YZ   | 8X0101  | BOLT 5/8-11NC X 8" GR5 YZ           |
| 8X0006  | BOLT 3/8-16NC X 2-1/2" GR5 YZ   | 8X0102  | BOLT 5/8-11NC X 9" GR5 YZ           |
| 8X0007  | BOLT 3/8-16NC X 1-1/2" GR5 YZ   | 8X0106  | BOLT 3/4X2.75" W/1.38THD GR8 YZ     |
| 8X0008  | BOLT 3/8-16NC X 2" GR5 YZ       | 8X0107  | BOLT 3/4-10NC X 2" GR5 YZ           |
| 8X0009  | BOLT 1/4-20NC X 2" GR5 YZ       | 8X0110  | BOLT 3/4-10NC X 1-1/4" GR5 YZ       |
| 8X0010  | BOLT 1/4-20NC X 1-1/4" GR5 YZ   | 8X0111  | BOLT 3/4-10NC X 2-1/2" GR5 YZ       |
| 8X0013  | BOLT 1/4-20NC X 2-1/2" GR5 YZ   | 8X0112  | BOLT 3/4-10NC X 2-1/4" GR5 YZ       |
| 8X0014  | BOLT 1/4-20NC X 3" GR5 YZ       | 8X0113  | BOLT 3/4-10NC X 5" GR5 YZ           |
| 8X0015  | BOLT 3/8-16NC X 3-3/4" GR5 YZ   | 8X0114  | BOLT 3/4-10NC X 3" GR5 YZ           |
| 8X0016  | BOLT 3/8-16NC X 3" GR5 YZ       | 8X0115  | BOLT 3/4-10NC X 3-1/2" GR5 YZ       |
| 8X0017  | BOLT 3/8-16NC X 5" GR5 YZ       | 8X0115A | BOLT 3/4NCX 3.5" FULLTHD GR5 YZ     |
| 8X0019  | BOLT 3/8-16NC X 4-1/2" GR5 YZ   | 8X0115B | BOLT 3/4-10NC X 3-1/2" GR8 YZ       |
| 8X0020  | BOLT 3/8-16X3.5" FULLTHDGR5 YZ  | 8X0116  | BOLT 3/4-10NC X 6" GR5 YZ           |
| 8X0021  | BOLT 5/16-18NC X 3/4" GR5 YZ    | 8X0117  | BOLT 3/4-10NC X 7" GR5 YZ           |
| 8X0021A | BOLT 5/16-18NC X 1" GR5 YZ      | 8X0118  | BOLT 3/4-10NC X 4" GR5 YZ           |
| 8X0021B | BOLT 5/16-18NC X 1-1/4" GR5 YZ  | 8X0118A | BOLT 3/4-10NC X 4-1/4" GR5 YZ       |
| 8X0022  | SCKT CAP 5/16-18 X 1" GR5 YZ    | 8X0119  | BOLT 3/4-10NC X 7-1/2" GR5 YZ       |
| 8X0023  | BOLT 5/16-18NC X 2" GR5 YZ      | 8X0120  | BOLT 3/4-10NC X 9" GR5 YZ           |
| 8X0030  | BOLT 5/16-18NC X 5" GR5 YZ      | 8X0121  | BOLT 3/4-10NC X 6-1/2" GR5 YZ       |
| 8X0031  | BOLT 7/16-14NC X 1" GR5 YZ      | 8X0122  | BOLT 3/4-10NC X 4-1/2" GR5 YZ       |
| 8X0033  | BOLT 7/16X1.25 5/8" THD GR5 YZ  | 8X0123  | BOLT 3/4-10NC X 5-1/2" GR5 YZ       |
| 8X0034  | BOLT 7/16X1.75 W/1" THD GR5 YZ  | 8X0125  | BOLT 3/4-10NC X 10" GR5 YZ          |
| 8X0036  | BOLT 7/16-14NC X 2" GR5 YZ      | 8X0130  | BOLT 7/8-9NC X 2" GR5 YZ            |
| 8X0038  | BOLT 7/16-14NC X 2-1/2" GR5 YZ  | 8X0132  | BOLT 7/8-9NC X 2-1/2" GR5 YZ        |
| 8X0041  | BOLT 7/16-14NC X 3" GR5 YZ      | 8X0133  | BOLT 7/8-9NC X 3" GR5 YZ            |
| 8X0044  | BOLT 7/16-14NC X 3-1/2" GR5 YZ  | 8X0138  | BOLT 1-8NC X 5-1/2" GR5 YZ          |
| 8X0045  | BOLT 7/16-14NC X 4-1/2" GR5 YZ  | 8X0139  | BOLT 1-8NC X 3" GR5 YZ              |
| 8X0046  | BOLT 7/16-14NC X 7-1/4" GR5 YZ  | 8X0140  | BOLT 1-8NCX 7" W/1.5" THDGR5 YZ     |
| 8X0047  | BOLT 7/16-14NC X 6" GR5 YZ      | 8X0141  | BOLT 1-8NC X 7.5" GR5 YZ            |
| 8X0048  | CRG 7/16-14NC X 3-1/2" GR5 YZ   | 8X0142  | BOLT 1-8NCX 3.5" GR5 YZ             |
| 8X0061  | BOLT 1/2-13NC X 1-1/4" GR5 YZ   | 8X0143  | BOLT 1-8NC X 5" GR5 YZ              |
| 8X0062  | BOLT 1/2-13NC X 2" GR5 YZ       | 8X0144  | BOLT 1-8NC X 9-1/2" GR5 YZ          |
| 8X0063  | BOLT 1/2-13NC X 1-1/2" GR5 YZ   | 8X0145  | BOLT 1-8NC X 10-1/2" GR5 YZ         |
| 8X0064  | CRG 1/2-13NC X 1-1/2" GR5 YZ    | 8X0149  | BOLT 1-8NC X 18" GR5 YZ             |
| 8X0065  | CRG 1/2-13NC X 2" GR5 YZ        | 8X0150  | BOLT 1-8NC X 20" GR5 YZ             |
| 8X0065L | CRG 1/2-13NC X 3" GR5 ZINC      | 8X0170  | SCREW 8 X .75" FLANGE HD            |
| 8X0065S | SCKT CAP 1/2-13 X 1.62" GR8 PLN | 8X0201  | NUT 3/8"-16NC HEX GR2 YZ            |
| 8X0066  | BOLT 1/2-13NC X 1-3/4" GR5 YZ   | 8X0202  | NUT 3/8"-16NC NY-LOCK GR2 YZ        |
| 8X0066S | SCKT CAP 1/2-13 X 1.75" GR8 PLN | 8X0203  | NUT 3/8"-16NC SERFLANG GR2 YZ       |
| 8X0067  | BOLT 1/2-13NC X 2-1/4" GR5 YZ   | 8X0204  | NUT 3/8"-16NC HEX GR2 GALV          |
| 8X0068  | BOLT 1/2-13NC X 2-1/2" GR5 YZ   | 8X0205  | NUT 10-24 HEX YZ                    |
| 8X0069  | BOLT 1/2-13NC X 3" GR5 YZ       | 8X0208  | NUT 8-32 HEX ZY SER FLNG            |
| 8X0070  | BOLT 1/2-13NC X 3-1/4" GR5 YZ   | 8X0210  | NUT 5/16"-18NC HEX GR2 YZ           |
| 8X0071  | BOLT 1/2-13X 3" SHOULDR GR2 YZ  | 8X0211  | NUT 5/16"-18NC SERFLANG GR2 YZ      |
| 8X0072  | BOLT 1/2-13NC X 3-3/4" GR5 YZ   | 8X0212  | NUT 5/16"-18NC NY-LOCK GR2 YZ       |
| 8X0073  | BOLT 1/2-13NC X 5" GR5 YZ       | 8X0218  | NUT 1/4"-20NC SQ GR2 SS             |
| 8X0074  | BOLT 1/2-13NC X 4-1/2" GR5 YZ   | 8X0220  | NUT 1/4"-20NC HEX GR2 YZ            |
| 8X0075  | BOLT 1/2-13NC X 6" GR5 YZ       | 8X0222  | NUT 1/4"-20NC NY-LOCK GR2 YZ        |
| 8X0076  | BOLT 1/2-13NC X 5-1/2" GR5 YZ   | 8X0223  | NUT 1/4"-20NC SERFLANG GR2 YZ       |
| 8X0077  | BOLT 1/2-13NC X 7-1/2" GR5 YZ   | 8X0232  | NUT 7/16"-14NC HEX GR2 YZ           |
| 8X0078  | BOLT 1/2-13X3.62" SHLDR GR2 YZ  | 8X0234  | NUT 7/16"-14NC NY-LOCK GR2 YZ       |

## SECTION 5 - PART NUMBERS & DESCRIPTIONS

|         |                                |        |                                  |
|---------|--------------------------------|--------|----------------------------------|
| 8X0240  | NUT 1/2"-13NC HEX GR2 YZ       | 8X0366 | WASHER 2.03IDX2-7/8ODX 1/4"PLN   |
| 8X0242  | NUT 1/2"-13NC NY-LOCK GR2 YZ   | 8X0367 | WASHER 1-3/4"IDX3.25"X14GA PLN   |
| 8X0244  | NUT 1/2"-13NC FLANG TOP LOCK Z | 8X0368 | WASHER 1-1/2" SAE FLAT PLN       |
| 8X0246  | NUT 1/2"-13NC SERFLANG GR2 YZ  | 8X0370 | WASHER 3.016"ID X3.934" X 14GA   |
| 8X0250  | NUT 5/8"-11NC HEX GR2 YZ       | 8X0380 | WASHER 3.06"IDX4.25" X 3/16"     |
| 8X0251  | NUT 5/8"-11NC JAM GR2 YZ       | 8X0400 | HAIRPIN CLIP 1/8 X 1-15/16"      |
| 8X0253  | NUT 5/8"-11NC NY-LOCK GR2 YZ   | 8X0402 | HAIRPIN CLIP 1/8 X 2-9/16"       |
| 8X0256  | NUT 5/8"-11NC SERFLANG GR2 YZ  | 8X0410 | COTTER PIN 3/16 X 1" YZ          |
| 8X0259  | NUT 3/4"-10NC JAM GR2 YZ       | 8X0414 | COTTER PIN 1/4 X 2" YZ           |
| 8X0260  | NUT 3/4"-10NC HEX GR2 YZ       | 8X0415 | COTTER PIN 3/16 X 1-1/2"         |
| 8X0261  | NUT 3/4"-10NC NY-LOCK GR2 YZ   | 8X0418 | COTTER PIN 5/16 X 2-1/2" YZ      |
| 8X0264  | NUT 3/4"-10NC BEVL CNTRLCK YZ  | 8X0420 | CLEVIS PIN 7/16 X 1-3/4" YZ      |
| 8X0265  | NUT 3/4"-10NC CNTRLOCK GR2 YZ  | 8X0422 | CLEVIS PIN 1/2 X 2-1/4" YZ       |
| 8X0266  | NUT 3/4"-10NC SERFLANG GR2 YZ  | 8X0425 | CLEVIS PIN 1/2 X 3" YZ           |
| 8X0268  | NUT 7/8"-9NC HEX GR2 YZ        | 8X0428 | CLEVIS PIN 1/2 X 5-1/4" YZ       |
| 8X0269  | NUT 7/8"-9NC JAM GR2 YZ        | 8X0432 | CLEVIS PIN 1/2 X 6" YZ           |
| 8X0270  | NUT 7/8"-9NC CNTRLOCK GR2 YZ   | 8X0440 | CLEVIS PIN 5/8 X 3-7/8" YZ       |
| 8X0272F | NUT 7/8"-9NC TPLCK FLNG GRFLN  | 8X0462 | CLEVIS PIN 3/8 X 3" W/HL YZ      |
| 8X0277  | NUT 1"-8NC JAM GR2 YZ          | 8X0500 | LYNCH PIN 7/16 X 1-3/4" YZ       |
| 8X0278  | NUT 1"-8NC JAM TOPLOCK GR2 YZ  | 8X0510 | ROLL PIN 3/16 X 1-1/4" PLN       |
| 8X0280  | NUT 1"-8NC HEX GR2 YZ          | 8X0520 | ROLL PIN 3/16 X 2" ZINC CLEAR    |
| 8X0281  | NUT 1"-8NC NY-LOCK GR2 YZ      | 8X0523 | ROLL PIN 5/16 X 2-1/2" PLN       |
| 8X0282  | NUT 1"-14TPI TOPLOCK GR B Z    | 8X0528 | ROLL PIN 3/8 X 2-1/2" ZINC       |
| 8X0283  | NUT 1-1/4"-7NC JAM GR2 YZ      | 8X0605 | SET SCRW SQ HD 7/16-14X 1" YZ    |
| 8X0284  | NUT 1-1/4"-7NC HEX GR2 YZ      | 8X0614 | SET SCRW SQ HD 5/8-11 X 2" PLN   |
| 8X0285  | NUT 1-1/2"-6NC HEX GR2 YZ      | 8X0632 | SET SCRW SCKT 7/16-14X 1.5"PLN   |
| 8X0286  | NUT 1-1/2"-6NC JAM GR2 YZ      | 8X0640 | SET SCRW SQ HD 1/2-13X 1.5"PLN   |
| 8X0290  | NUT 1-1/4"-7NC HEXSLOT GR2 YZ  | 8X0665 | SET SCRW SQ HD 3/4-10X4.5" YZ    |
| 8X0292  | NUT 2"-4.5 HVY HEXSLOT GR2 PLN | 8X0708 | ZERK 1/4"-28 NF STR YZ           |
| 8X0292S | NUT 2"NC HEXSLOT MACHIND 1.75" | 8X0710 | ZERK 1/4"-28 NF 90 DEG YZ        |
| 8X0299  | LOCKWASHER 1/4" EXT TOOTH SS   | 8X0721 | ZERK 5/16"-24 NF STR YZ          |
| 8X0300  | LOCKWASHER 5/16" YLW ZNC       | 8X0725 | ZERK 1/8" MPT STR YZ             |
| 8X0301  | LOCKWASHER 3/8" YLW ZNC        | 8X0727 | ZERK 1/8" MPT 90 DEG YZ          |
| 8X0302  | LOCKWASHER 7/16" YLW ZNC       | 8X0728 | ZERK STANDOFF 1/8" NPT X 3"      |
| 8X0303  | LOCKWASHER 1/2" YLW ZNC        | 8X0750 | PIN XEDNI16P8 BOSTR3/220MA RED   |
| 8X0304  | LOCKWASHER 5/8" YLW ZNC        | 8X0803 | STL .25 MODULE BRACKET 16-       |
| 8X0306  | LOCKWASHER 3/4" YLW ZNC        | 8X1120 | CRG 3/8-16NC X 2" GR2 ZN         |
| 8X0307  | LOCKWASHER 7/8" YLW ZNC        | 8X1130 | CRG 3/8-16NC X 3" GR2 ZN         |
| 8X0308  | LOCKWASHER 1/4" YLW ZNC        | 8Y1530 | KIT DECVAL 46'-66' PD5052        |
| 8X0309  | LOCKWASHER 1" YLW ZNC          | 8Z0055 | PLATE SERIAL NUMBER UNIVRSL      |
| 8X0311  | LOCKWASHER 1-1/4" YLW ZNC      | 8Z0070 | DECAL "SUMMERS" 1.25 X 6"        |
| 8X0312  | WASHER 1/4" X 1-1/4" FENDER SS | 8Z0075 | DECAL TRNSPRT LCK WARNING TILL   |
| 8X0315  | LOCKWASHER 1-1/2" YLW ZNC      | 8Z0079 | DECAL "SUMMERS" 5 X 20"          |
| 8X0316  | WASHER 1" SAE FLAT YZ          | 8Z0087 | DECAL "WARNING" PINCH POINT03-   |
| 8X0317  | WASHER 3/4" SAE FLAT YZ        | 8Z0101 | DECAL "SUMMERS" M94/04/06 2.25X9 |
| 8X0318  | WASHER 3/4"(13/16"ID)FLAT YZ   | 8Z0110 | DECAL ID M94 01-                 |
| 8X0319  | WASHER 17/32"IDX7/8ODX16GA PLN | 8Z0114 | DECAL ID M104 01-                |
| 8X0320  | WASHER 3/8" (7/16" ID)FLAT YZ  | 8Z0115 | DECAL ID M105 09-                |
| 8X0323  | WASHER 5/8" SAE FLAT YZ        | 8Z0130 | DECAL ID HYD FLD COIL PCKR 01-   |
| 8X0326  | WASHER 1.X57"IDX2.75"OD PLN    | 8Z0276 | DECAL GENERAL CAUTION 91-        |
| 8X0327  | WASHER 1-1/4" SAE FLAT YZ      | 8Z0278 | DECAL WHEEL TIGHTENING 96-       |
| 8X0328  | WASHER 1.312"IDX2.5 OD-1/4" BL | 8Z0342 | DECAL INSTALL CYLINDER LOCKS     |
| 8X0329  | WASHER 5/16"(3/8" ID)FLAT YZ   | 8Z0344 | DECAL WING DANGER                |
| 8X0330  | WASHER 17/32"ID X 1.25"OD YZ   | 8Z0346 | DECAL ELECTROCUTION-TILLAGE      |
| 8X0331  | WASHER 15/32"ID X 1.25"OD YZ   | 8Z0800 | REFLECTOR AMBER ADHSVBCK98-      |
| 8X0332  | WASHER 1/4"(5/16" ID) FLAT YZ  | 8Z0805 | REFLCTR REDORANGE ADHSVBK99-     |
| 8X0355  | WASHER 1-1/2"IDX2.25"X10GA PLN | 8Z0810 | REFLECTOR RED ADHSV-BACK 98-     |
| 8X0361  | WASHER 1-3/4"ID X2.5"X10GA PLN | 8Z1000 | MANUAL-PAK 3DIA X 11.75" 09-     |
| 8X0364  | WASHER 2-1/2"IDX3.5"X 14GA PLN | 8Z1111 | OPER/SETUP MAN HYD FLD IMPLMNT   |

# 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<sup>®</sup>**

*... Field Tested TOUGH!*



## **Tillage**



## **Rock Picker**



## **Land Rollers/Packers**



## **Sprayers**



## **Mounted Attachments**



## **Cultivators/Harrows**

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