

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 for the latest version of all Summers Operator's Manuals.

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

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

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

1/16

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.



SECTION CONTENTS

Section 1: SAFETY

Section 2: ASSEMBLY

Section 3: OPERATION and MAINTENANCE

Section 4: PARTS

Section 5: PART NUMBERS WITH DESCRIPTIONS

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

TABLE OF CONTENTS



SECTION 1: SAFETY

Safety-Alert Symbol & General Safety Practices	5 - 6
Safety Decals & Reflectors	6 - 9
General Assembly Safety Practices	10

SECTION 2: ASSEMBLY

14' to 44' Set-Up Instructions	11 – 44
15'-42-1/2' Hydraulic Fold Rolling Chopper Layouts	45 – 66
46' to 66' Set-Up Instructions	67 – 96

SECTION 3: OPERATION and MAINTENANCE

Operating Instructions	97 – 98
Maintenance and Service.....	98
Proper Bolt Use.....	99

SECTION 4: PARTS

Center Frame 14'-30' Narrow Center	102
Center Frames 18'-50' Standard Center	103
Center Frames 52'-66' Standard Center	104
Wing 21'-44'	105
Wing 46'-66'	106
Packer Coil.....	107
Hydraulic System 14'-21' Standard Center	108
Hydraulic System 21'-30' Narrow Center	109
Hydraulic System 26'-44' Standard Center	110
Hydraulic System 46'-50' Standard Center	111
Hydraulic System 51'-64' Standard Center	112
Hydraulic System 66' Standard Center	113
Light Kit	114
Mounting Arm Assembly	115
Mounted Harrow Assembly	116
Rolling Chopper Assembly	117
Hub and Axle Components	118

SECTION 5: PART NUMBERS WITH DESCRIPTIONS	119 - 124
--	------------------

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

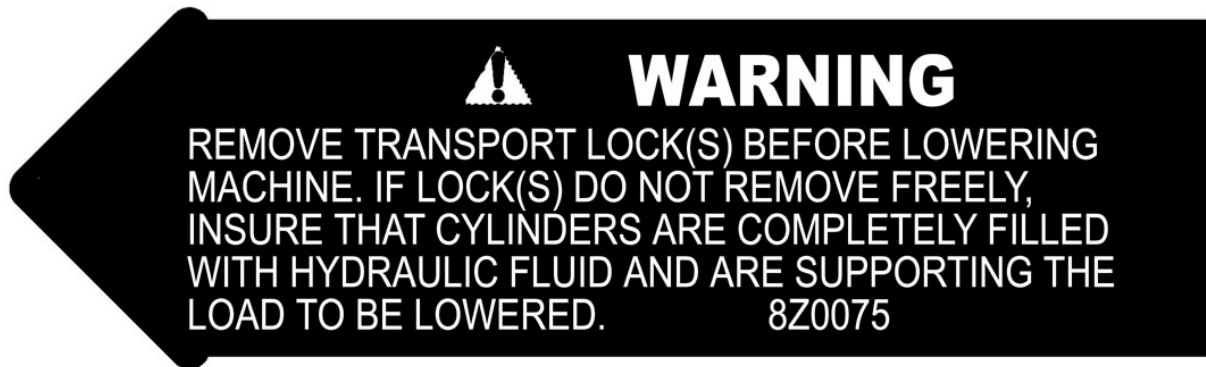
SAFETY DURING TRANSPORT

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.

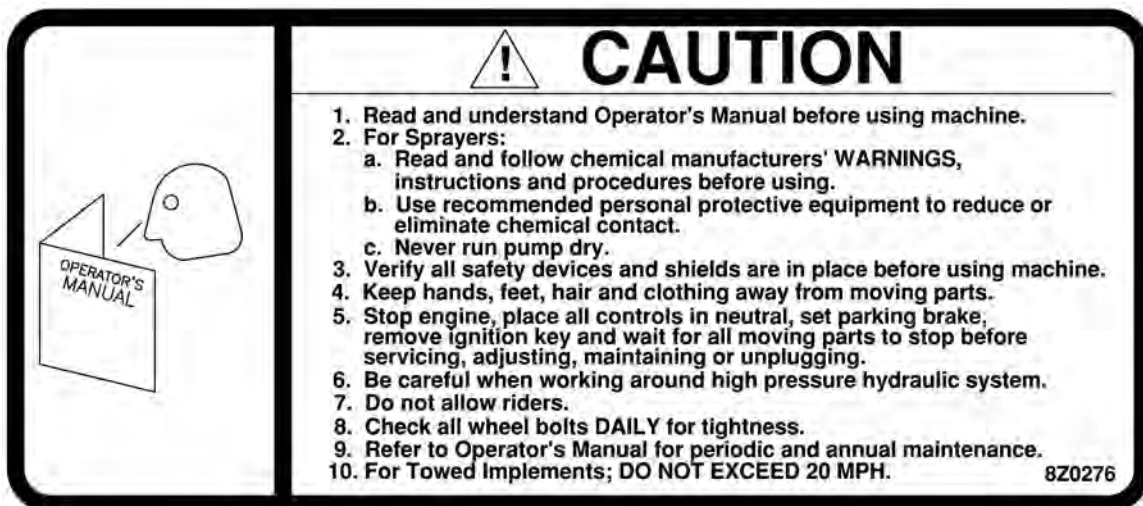
SAFETY DECALS

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)

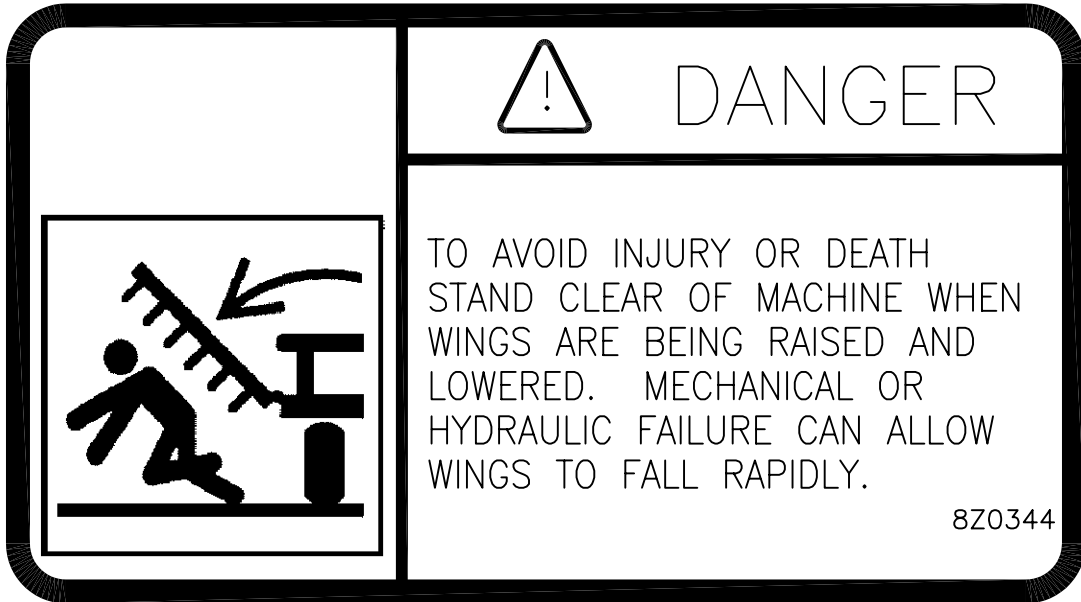


2. GENERAL CAUTION DECAL (PN 8Z0276)

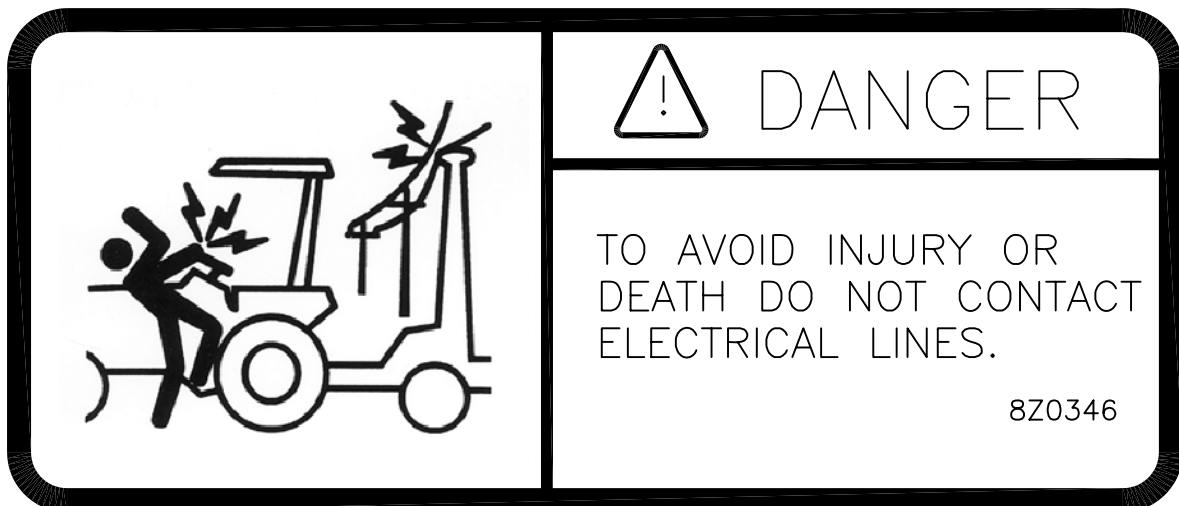


SECTION 1 - SAFETY

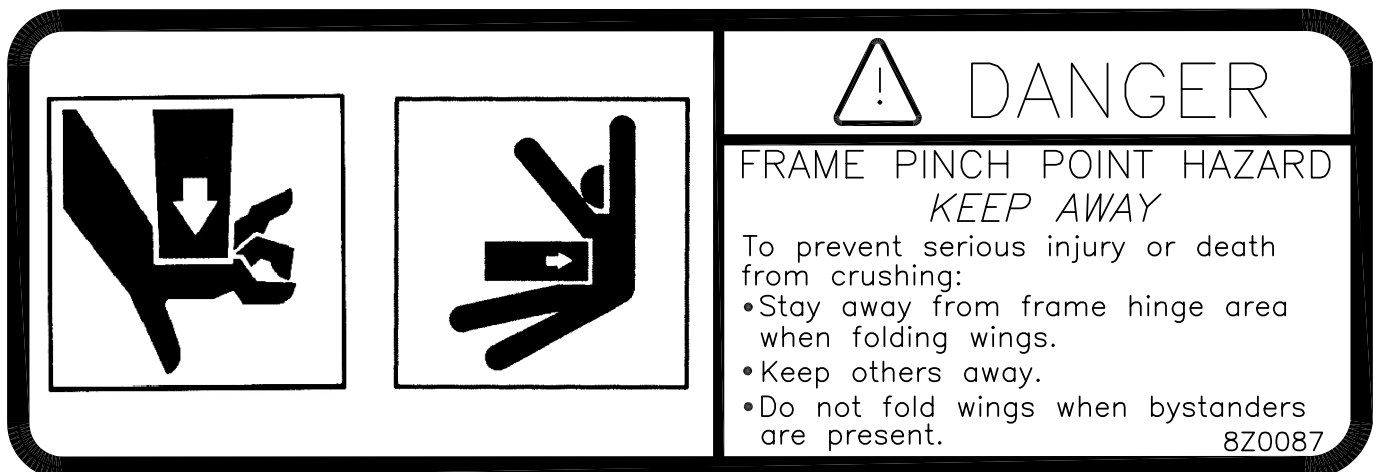
3. WING DANGER DECAL (PN 8Z0344)



4. ELECTROCUTION DANGER DECAL (PN 8Z0346)

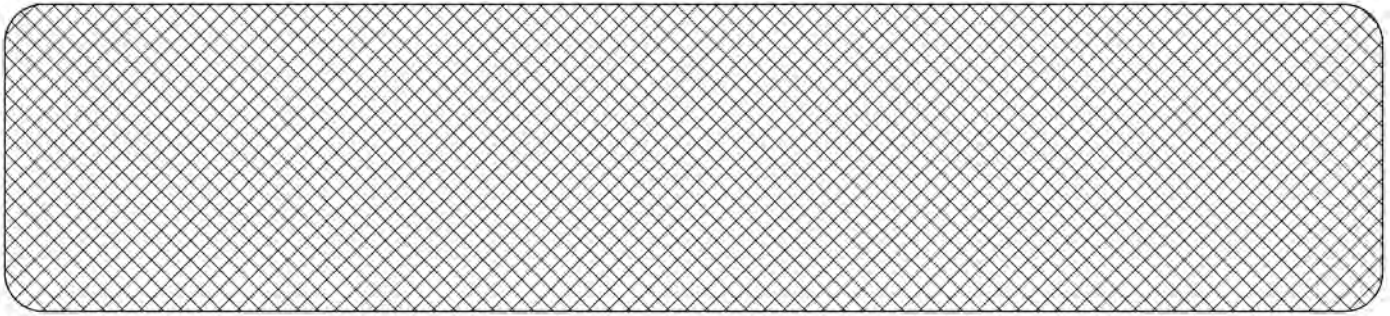


5. PINCH POINT DECAL (PN 8Z0087)

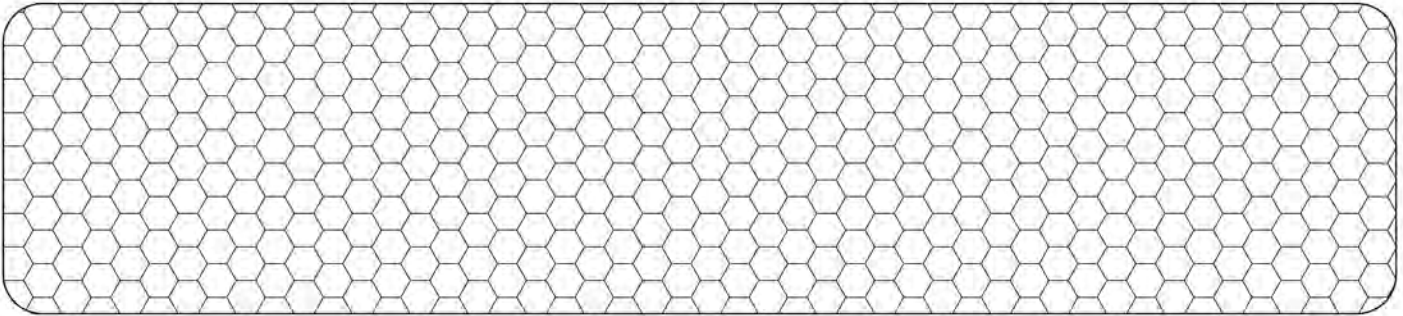


SECTION 1 - SAFETY

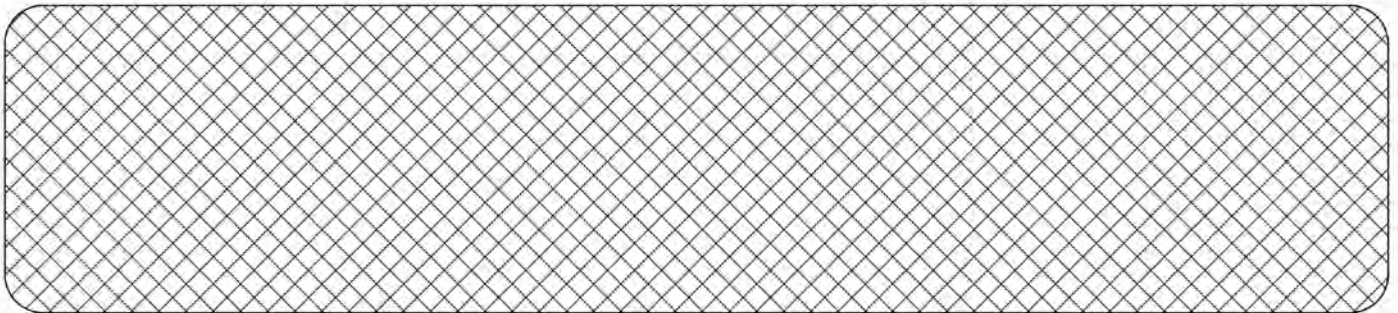
6. AMBER REFLECTOR (PN 8Z0800)



7. RED-ORANGE REFLECTOR (PN 8Z0805)



8. RED REFLECTOR (PN 8Z0810)

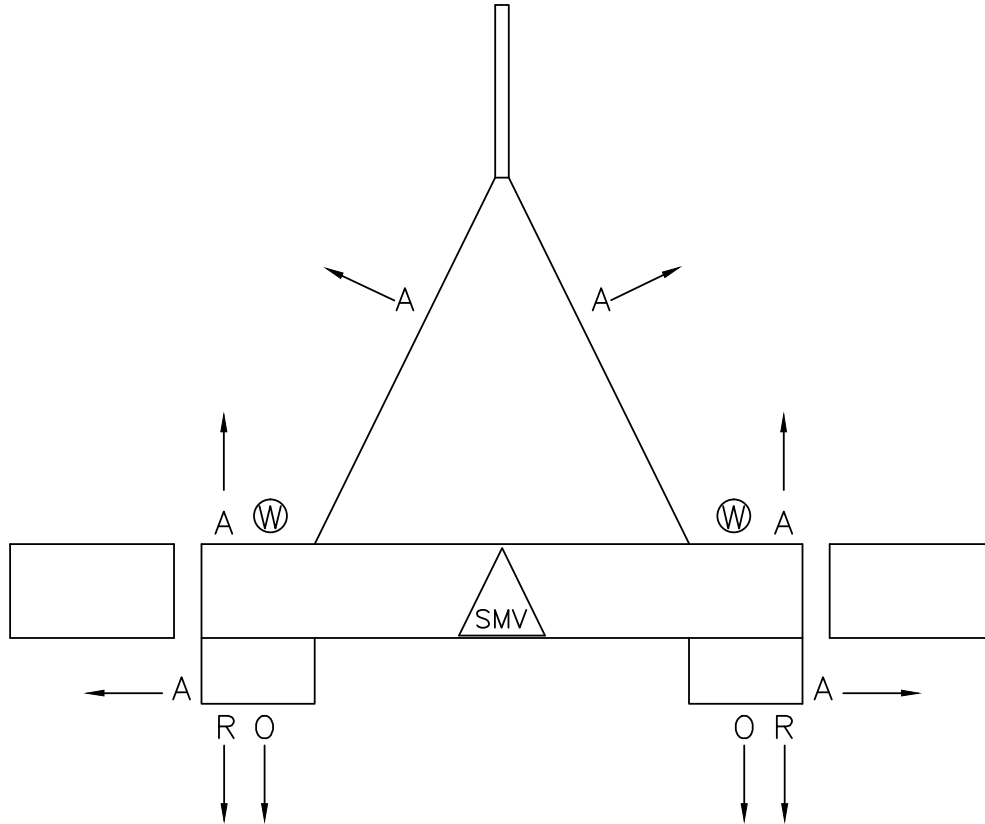


SAFETY LIGHT OPERATION

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

C-SHANKS

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

COIL/CHOPPER ASSEMBLIES

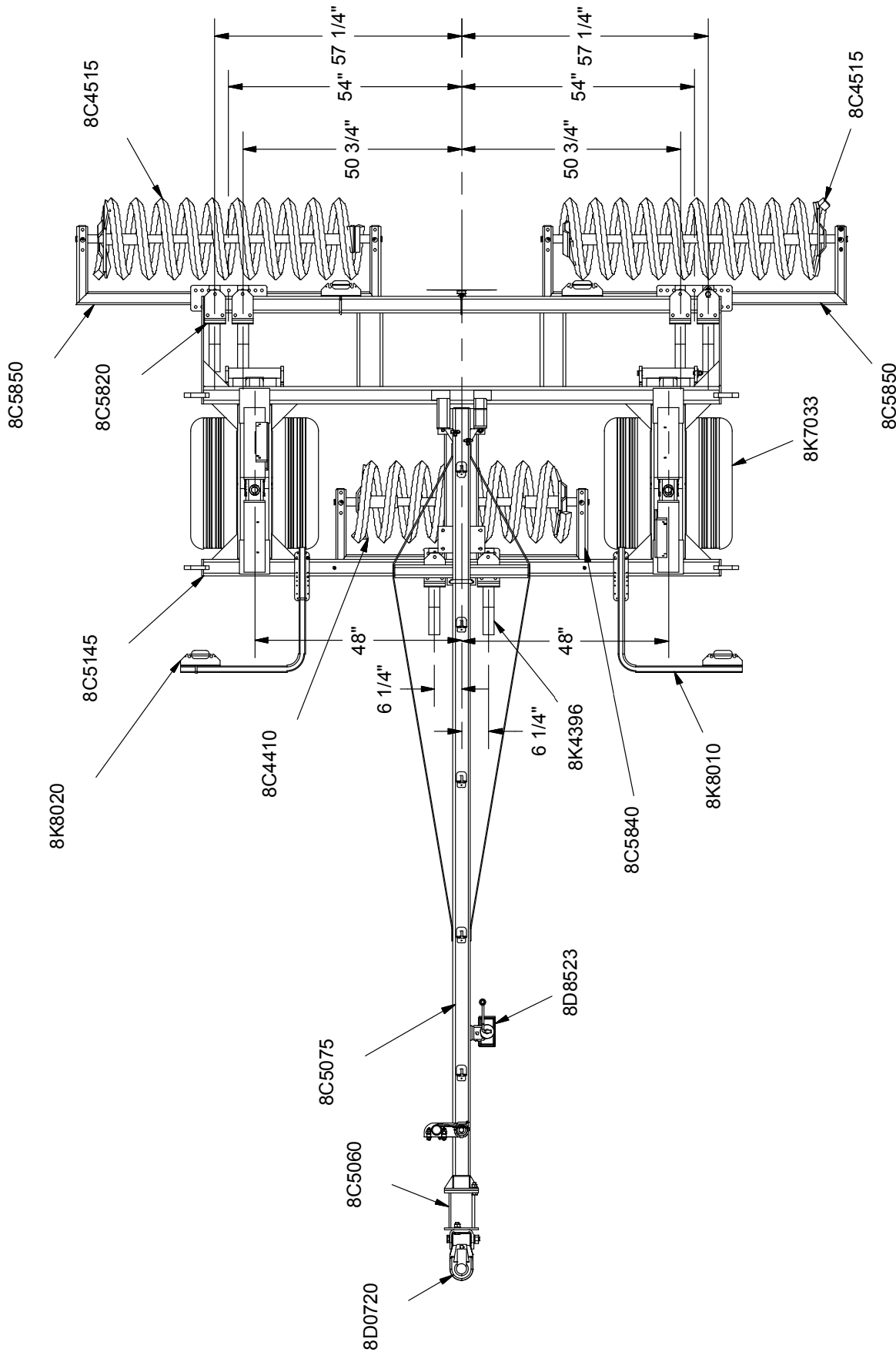
Pre-assemble Pull Frames. Secure pillow block to adjustment arm with 1/2" u-bolt and hardware. Secure bearing to coil shaft with set screws and snap ring. Attach Coil and Pull Frame assemblies to C-Shanks using 3/4" U-bolts (8C1720) and hardware. Note: Left and Right hand wound coils can be identified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

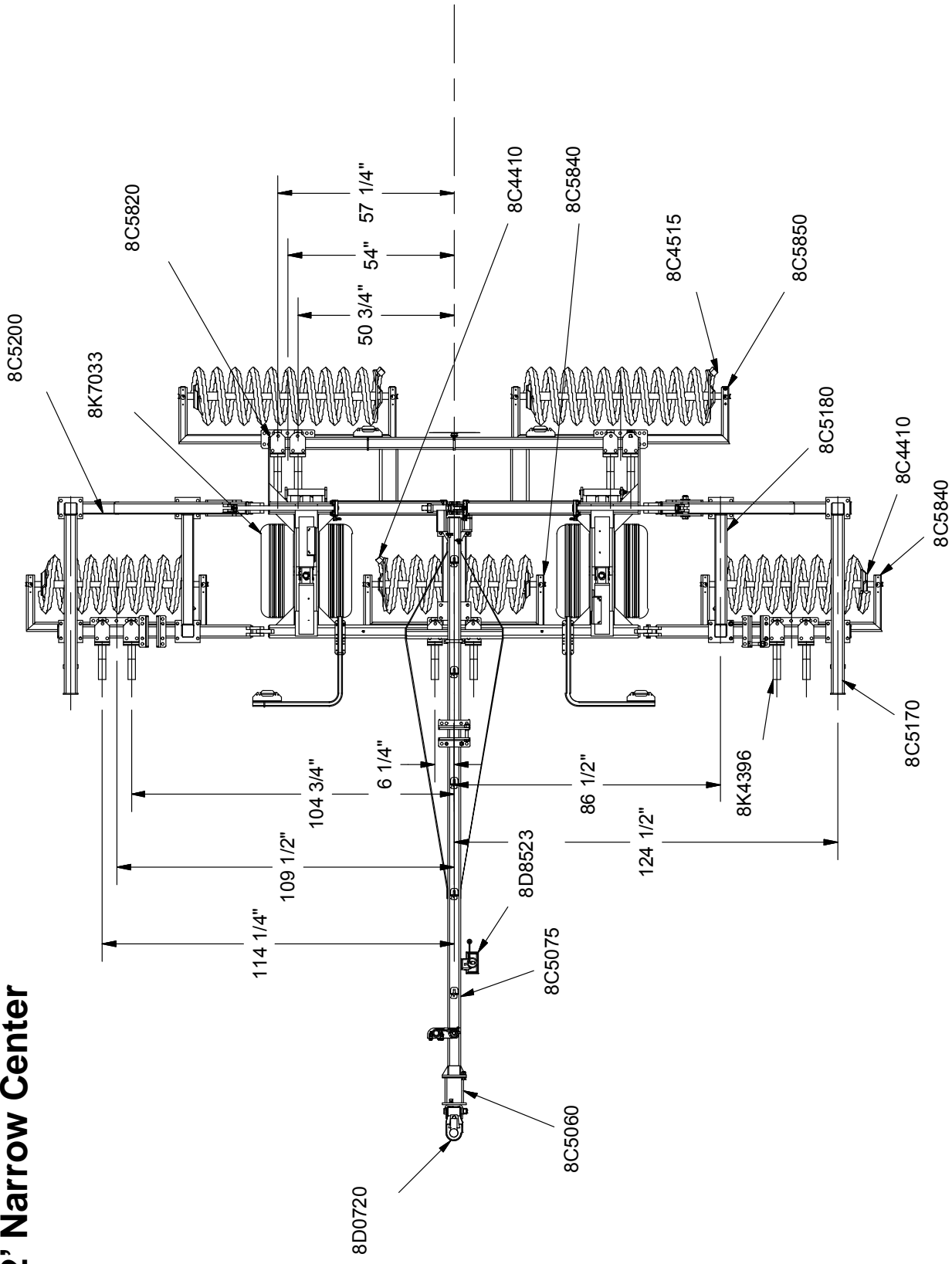
14' Narrow Center



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

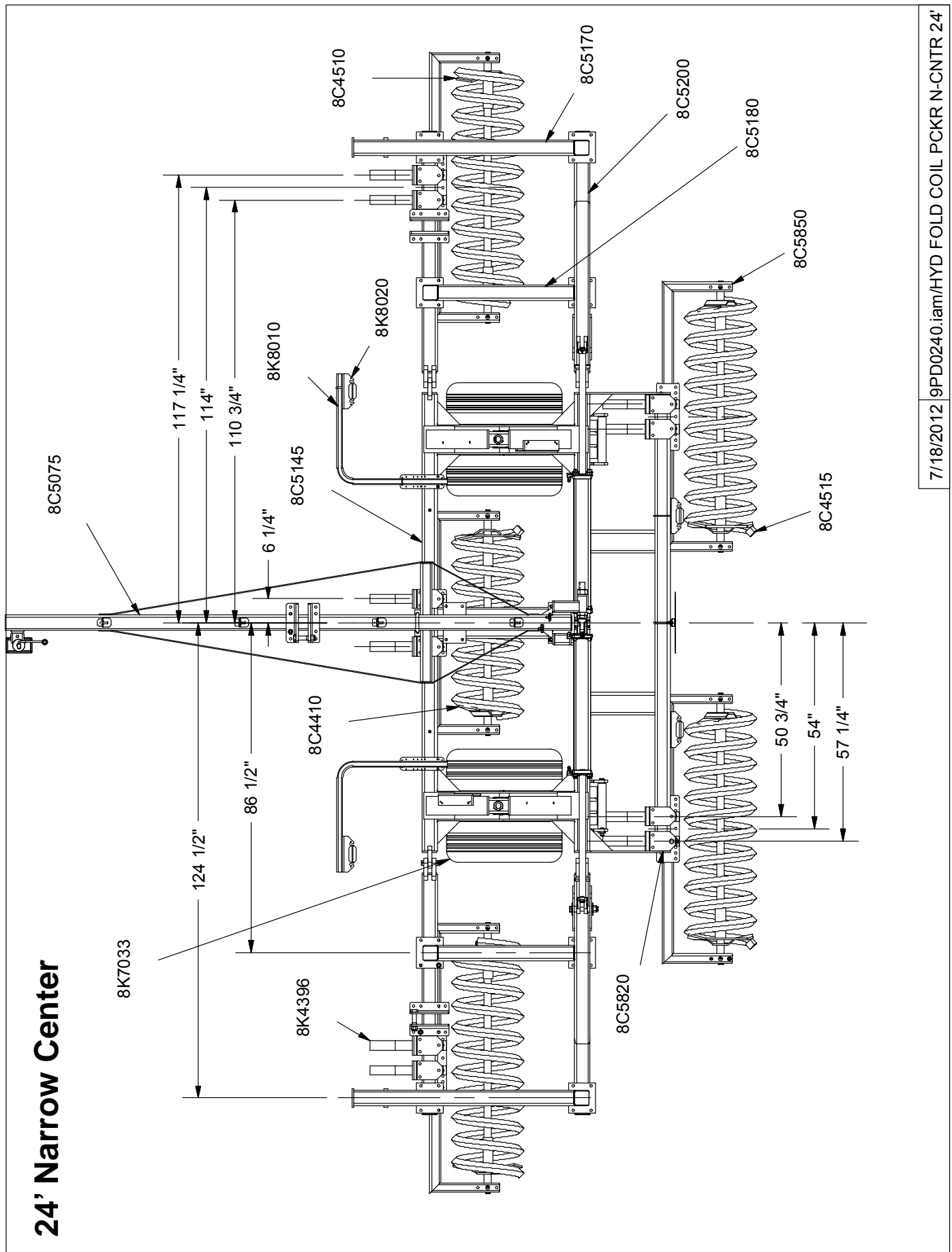
SECTION 2 - ASSEMBLY

22' Narrow Center



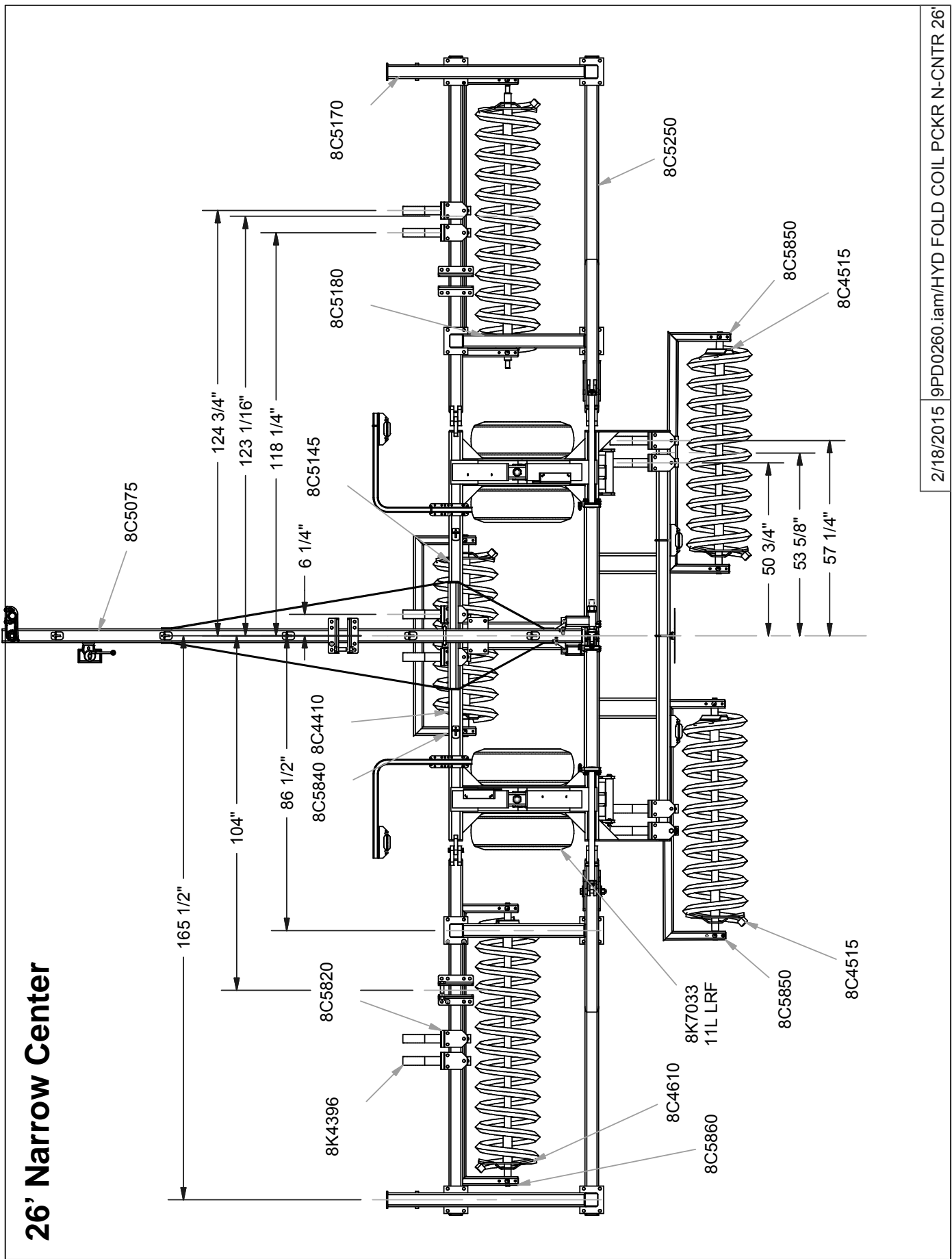
7/18/2012 9PD0220.iam/HYD FOLD COIL PCKR N-CNTR 22'

SECTION 2 - ASSEMBLY



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

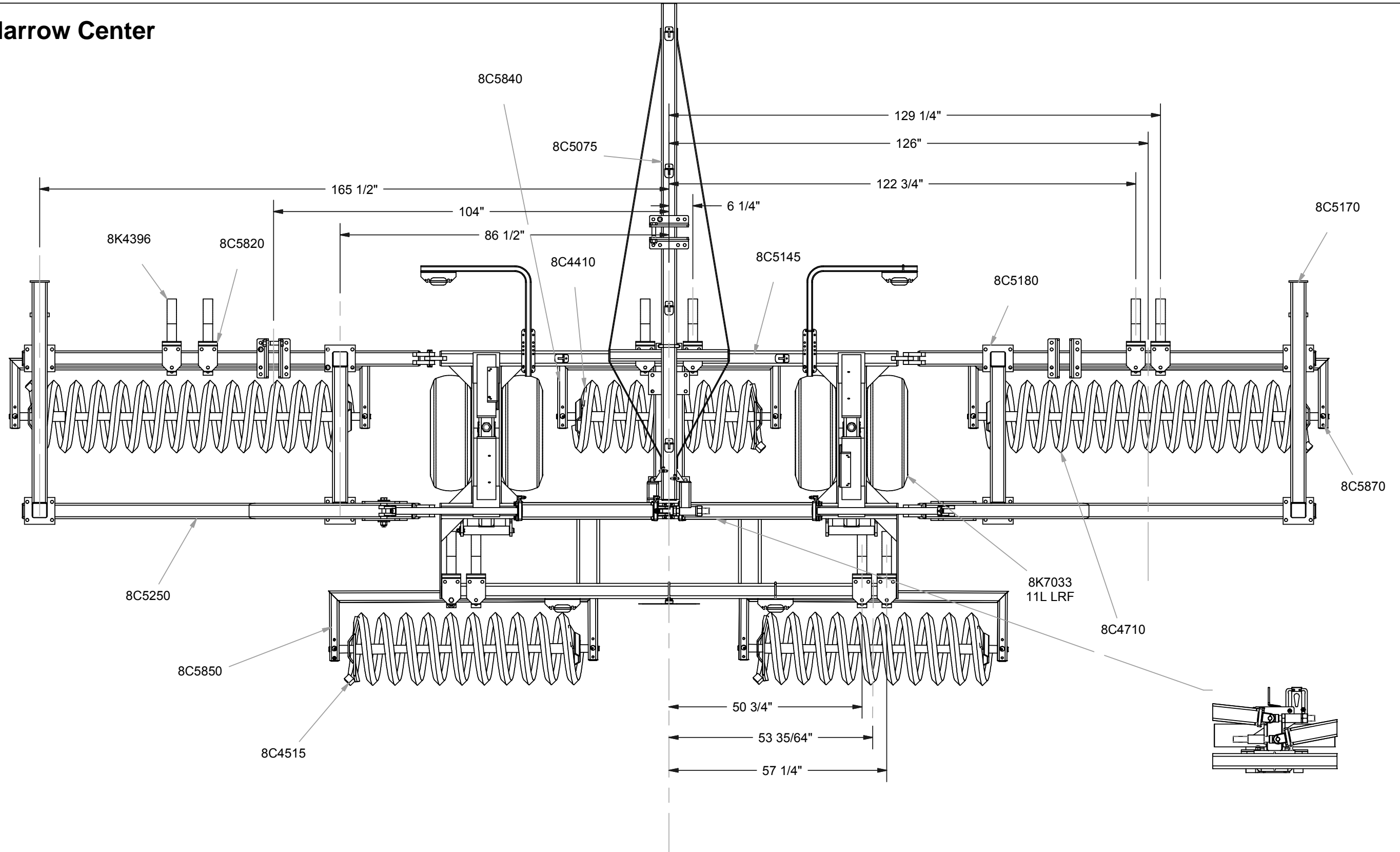
SECTION 2 - ASSEMBLY



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

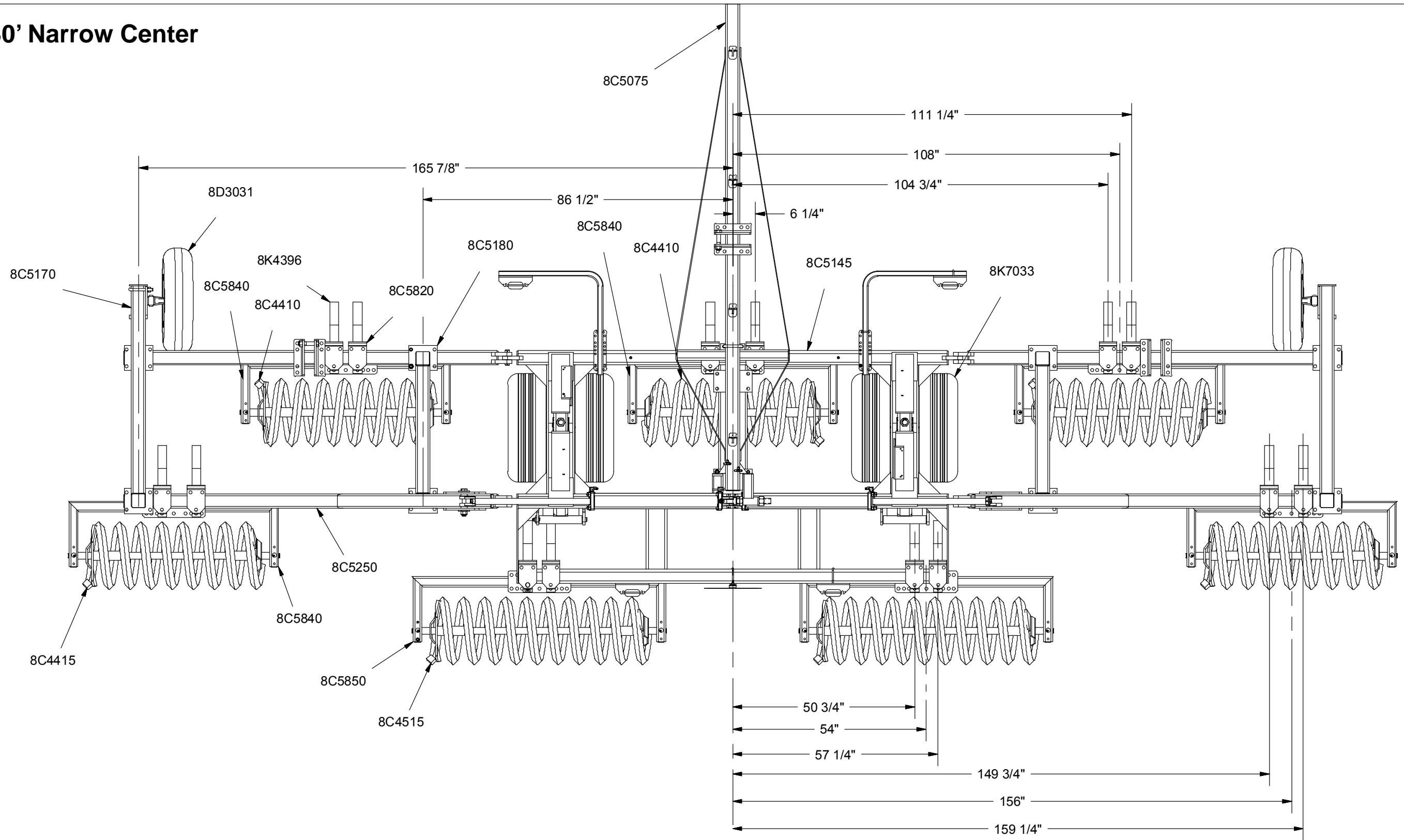
SECTION 2 - ASSEMBLY

28' Narrow Center



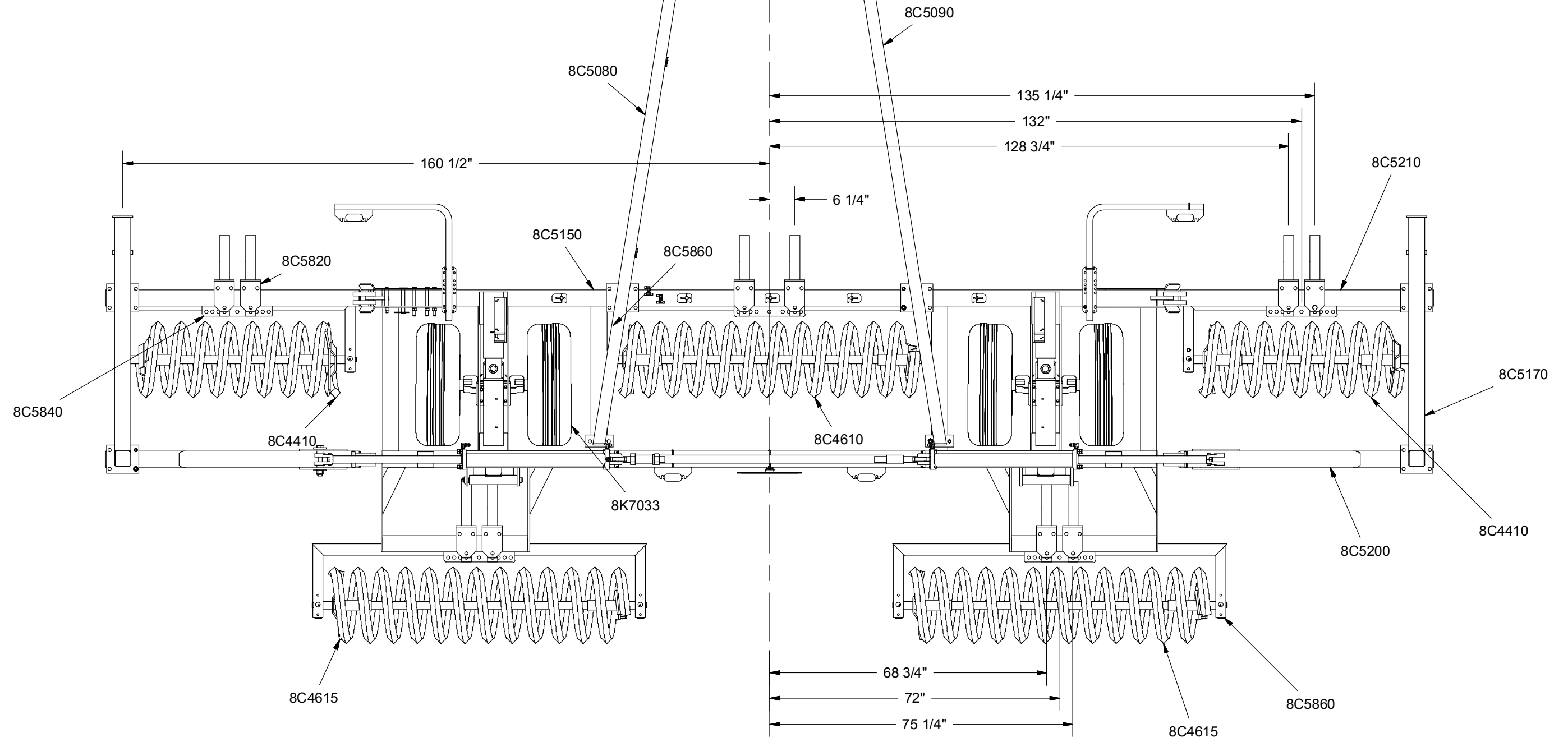
SECTION 2 - ASSEMBLY

30' Narrow Center



SECTION 2 - ASSEMBLY

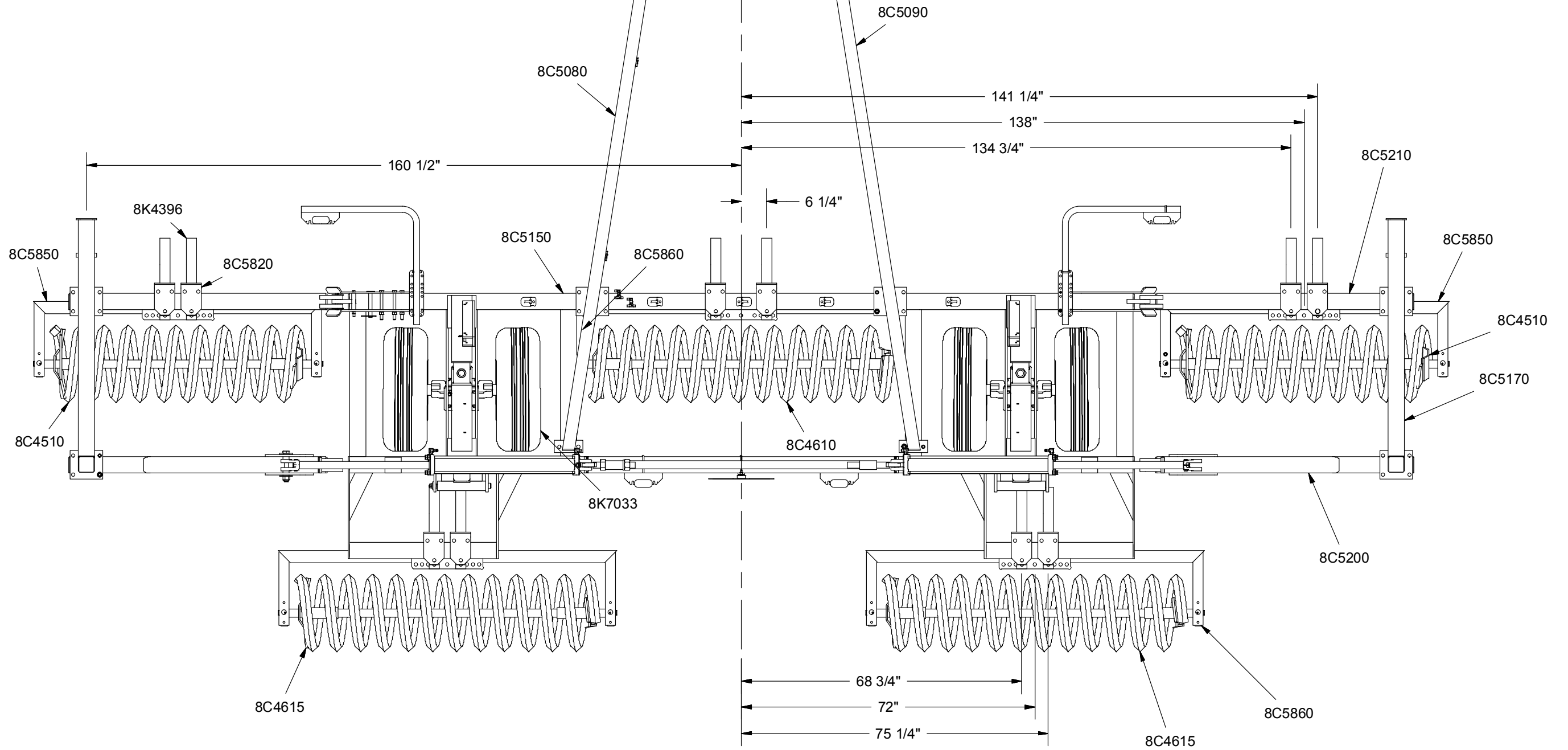
26' Standard Center



7/31/2012 9PD2675.iam/HYD FOLD COIL PCKR 26'

SECTION 2 - ASSEMBLY

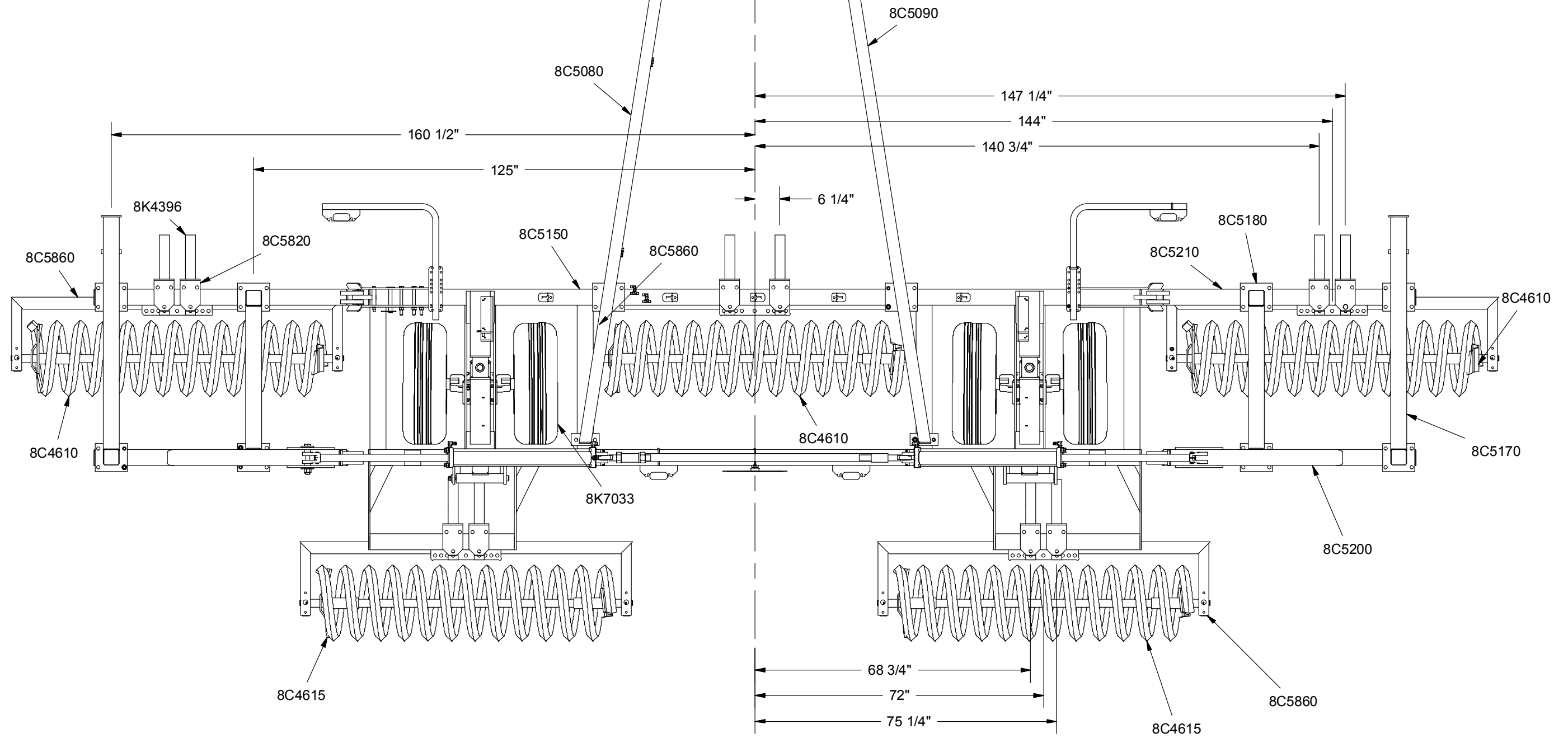
28' Standard Center



8/8/2012 9PD2875.iam/HYD FOLD COIL PCKR 28'

SECTION 2 - ASSEMBLY

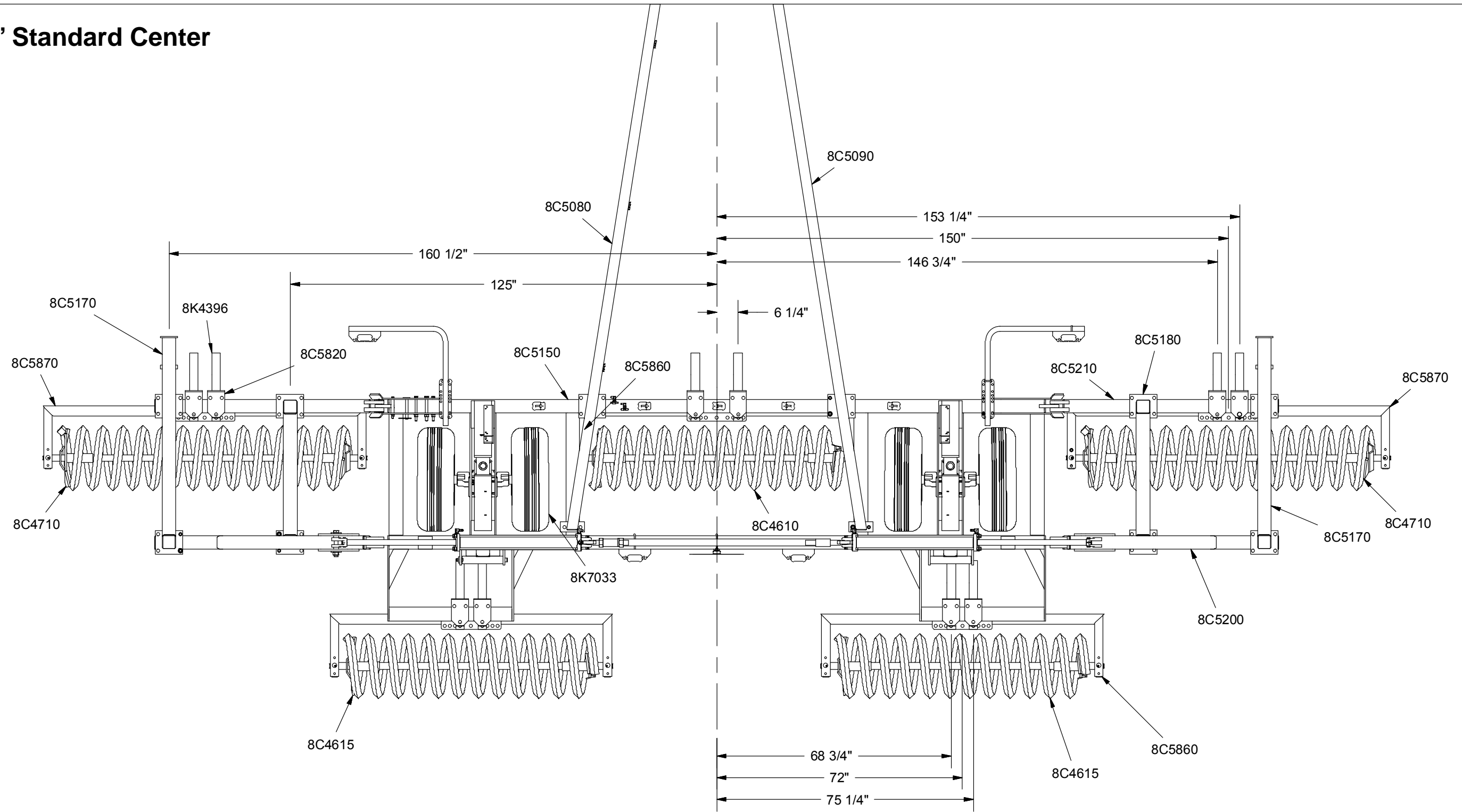
30' Standard Center



8/8/2012 9PD3075.iam/HYD FOLD COIL PCKR 30'

SECTION 2 - ASSEMBLY

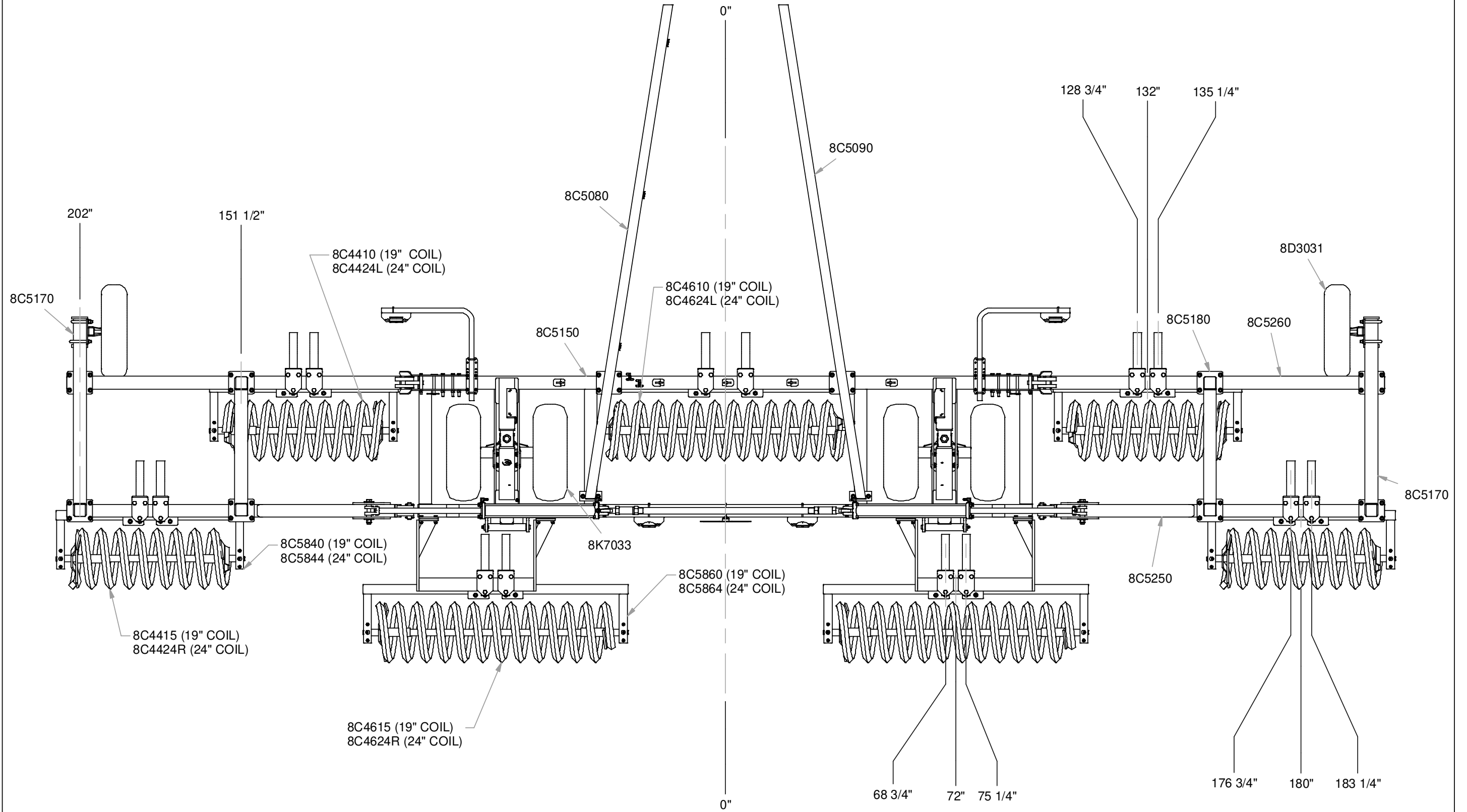
32' Standard Center



8/8/2012 9PD3275.iam/HYD FOLD COIL PCKR 32'

SECTION 2 - ASSEMBLY

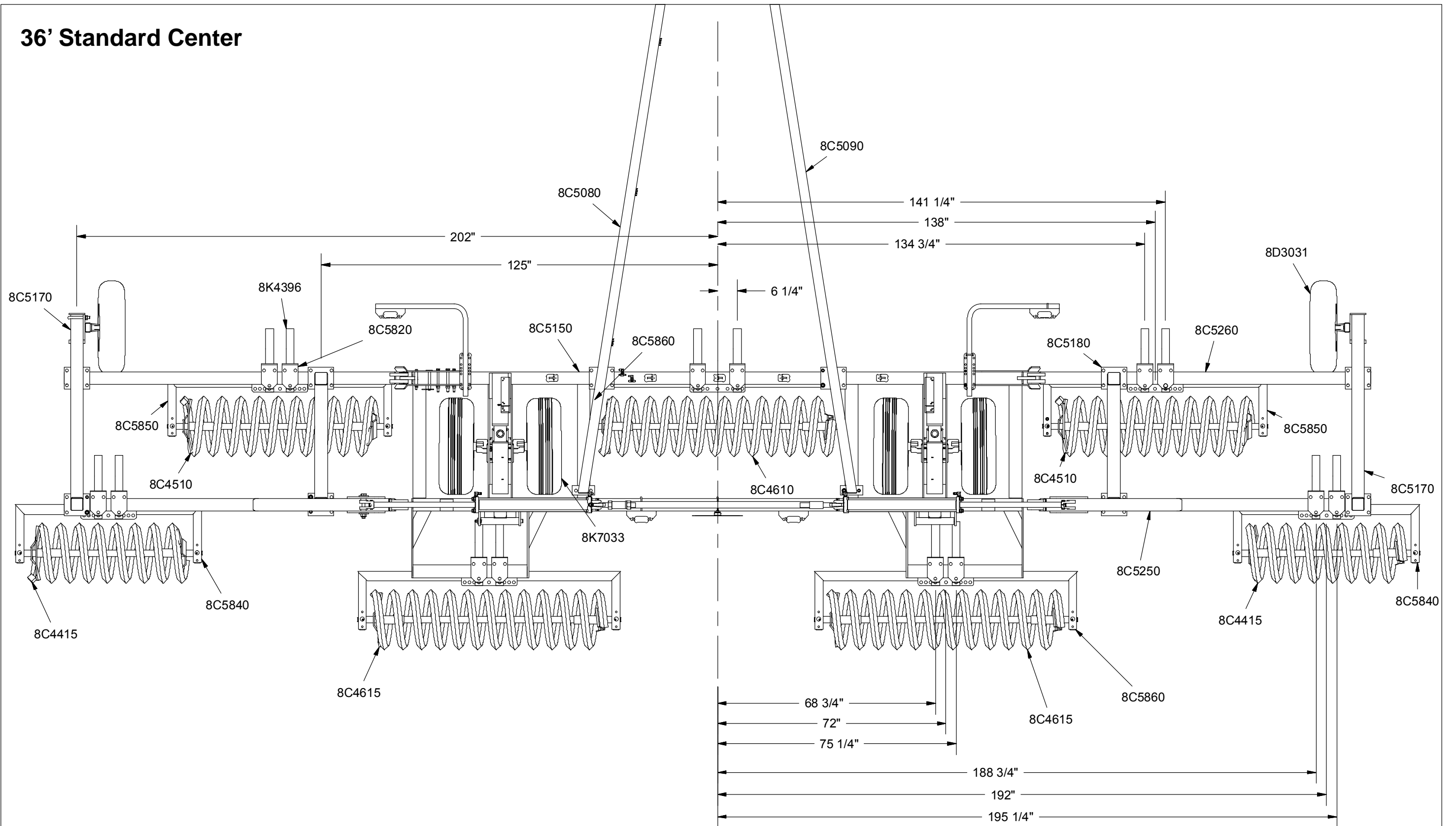
34' Standard Center



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

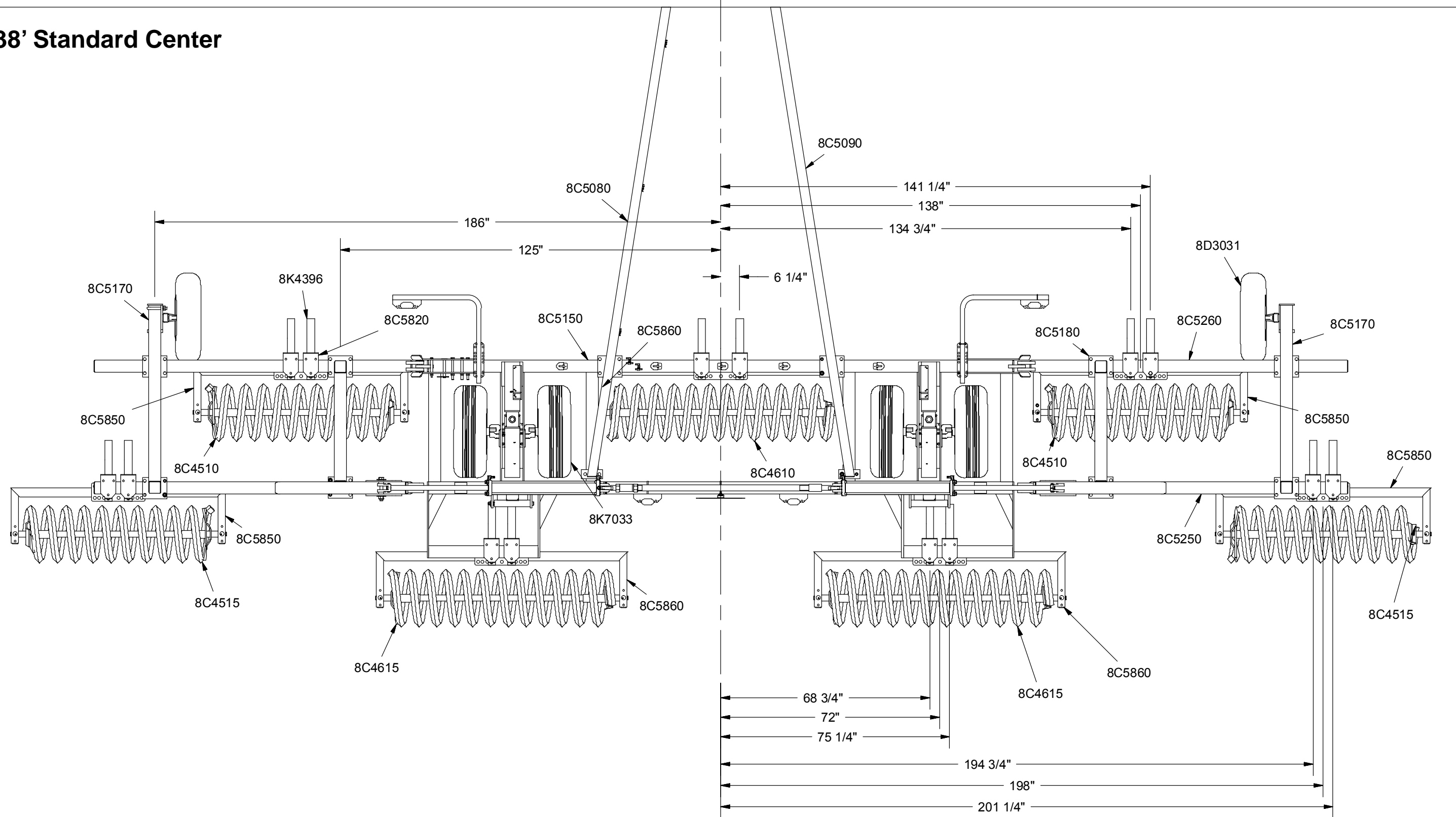
SECTION 2 - ASSEMBLY

36' Standard Center



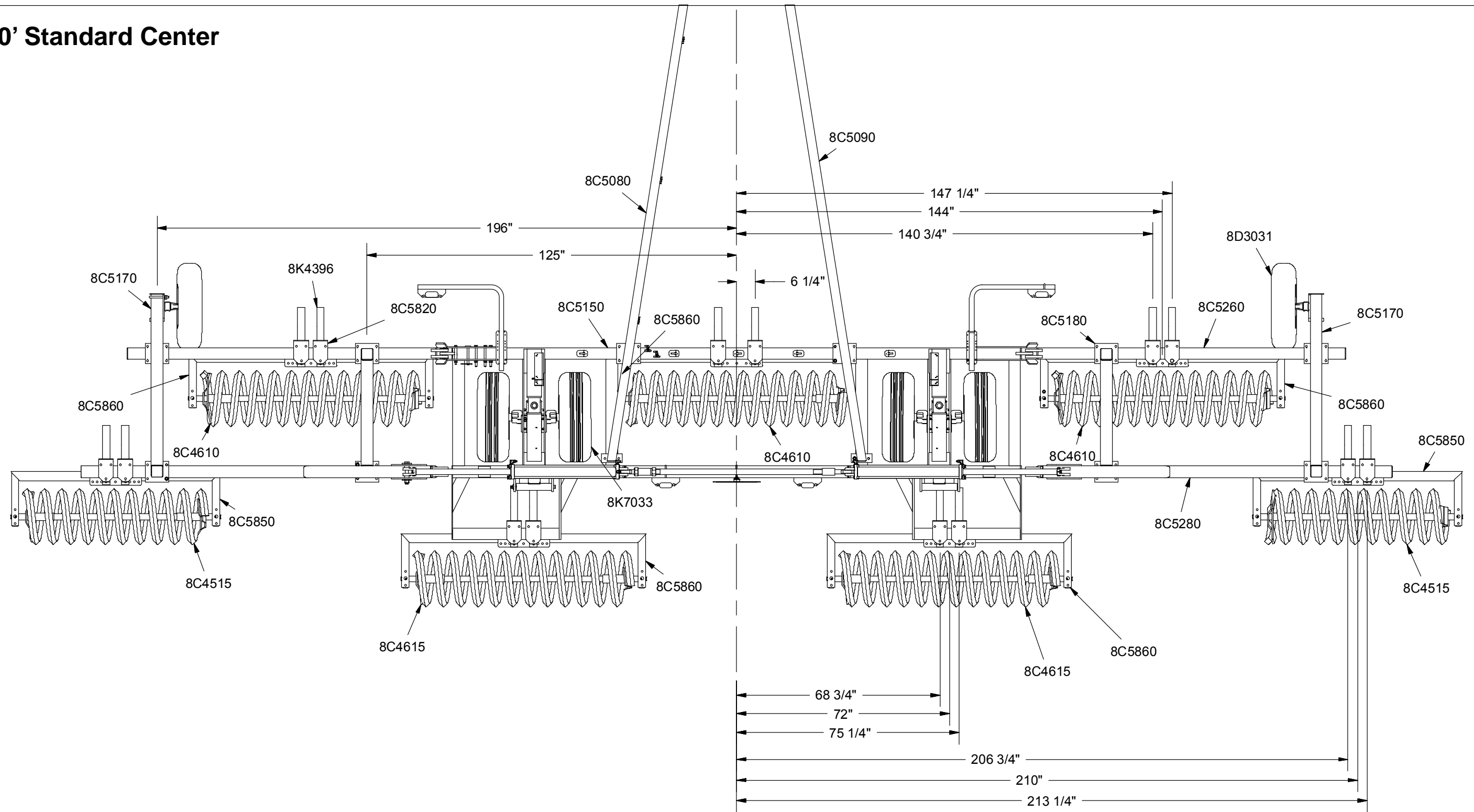
SECTION 2 - ASSEMBLY

38' Standard Center



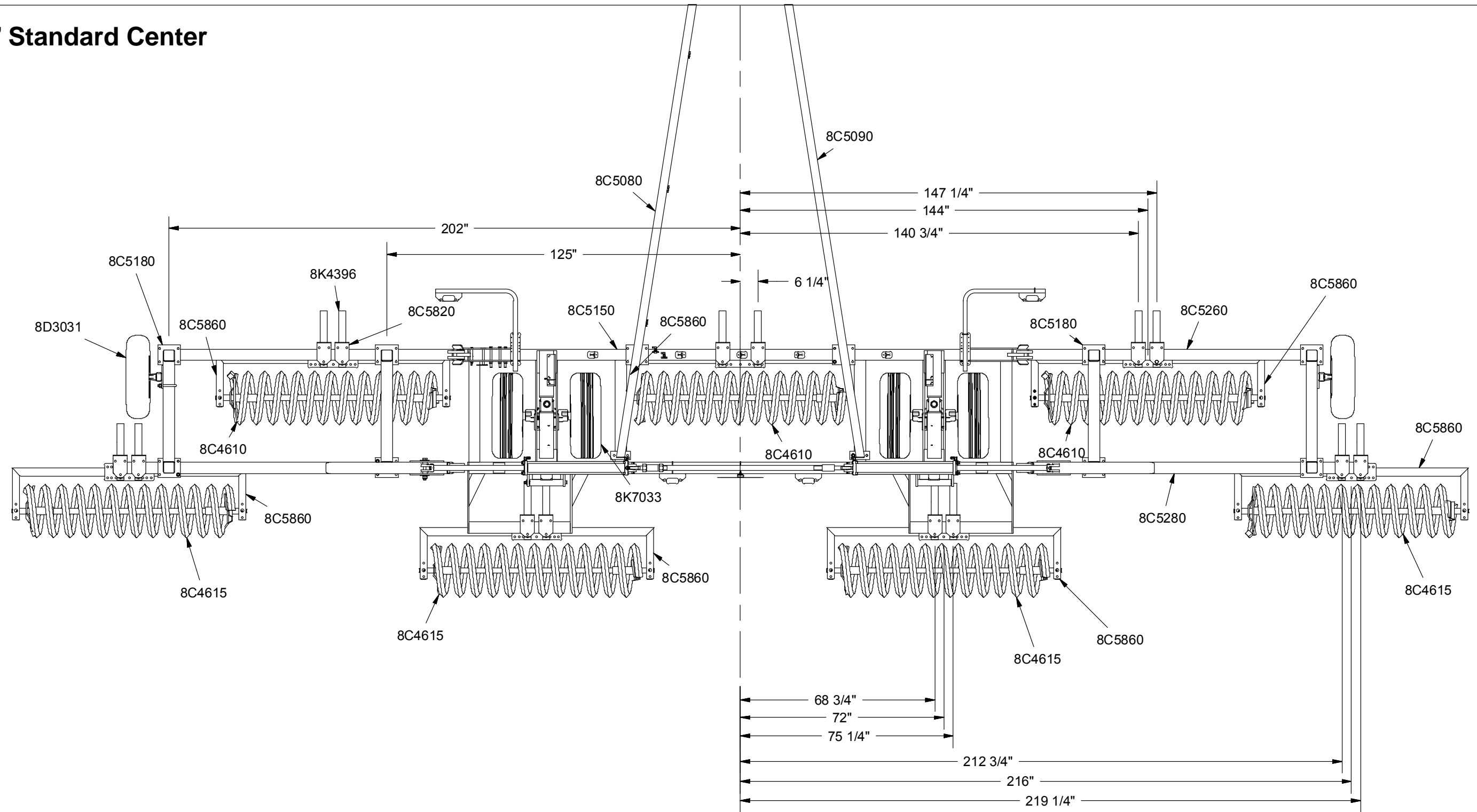
SECTION 2 - ASSEMBLY

40' Standard Center



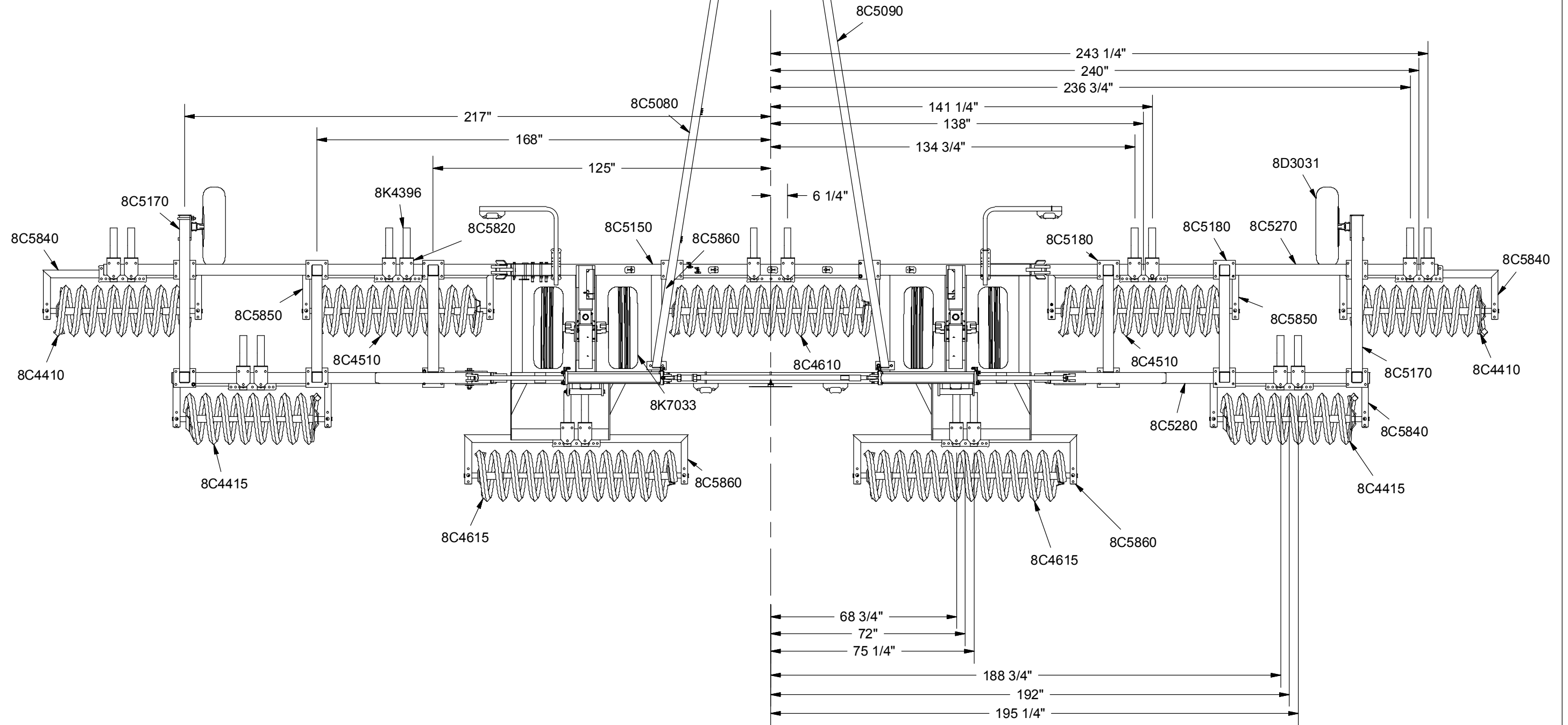
SECTION 2 - ASSEMBLY

42' Standard Center



SECTION 2 - ASSEMBLY

44' 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

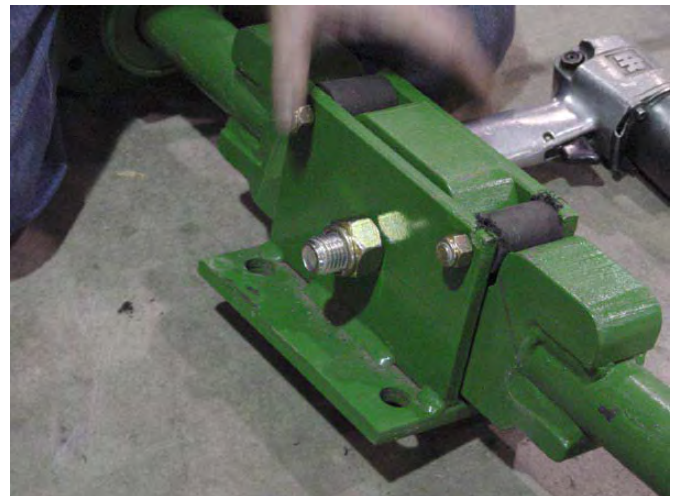


5. Install Center Lift Arms and secure Pivot Pin with bolt, washer and lock nut.



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.



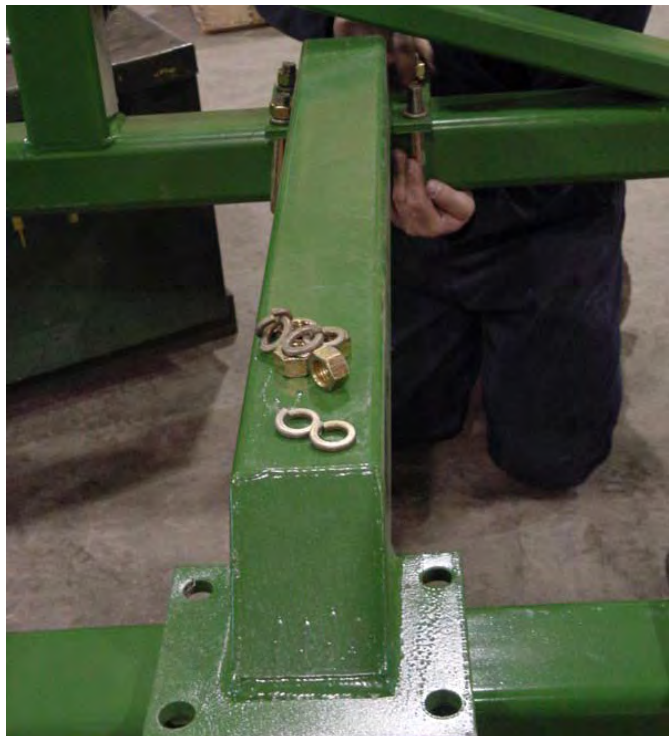
18. Left hand Wings leveled for further assembly.



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

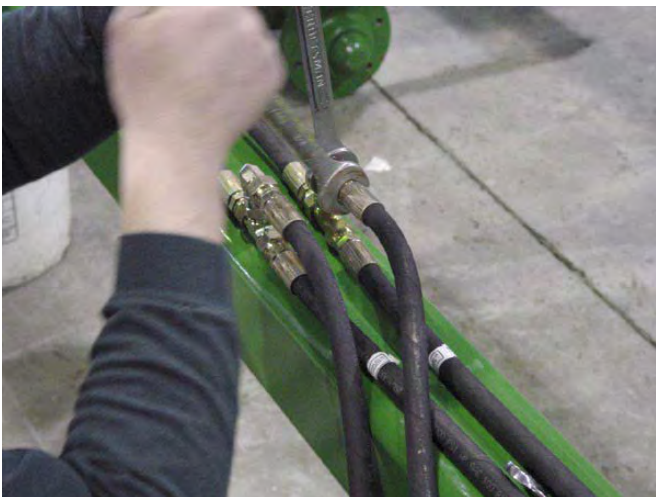
Hydraulic Hoses to Tractor & Tires



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

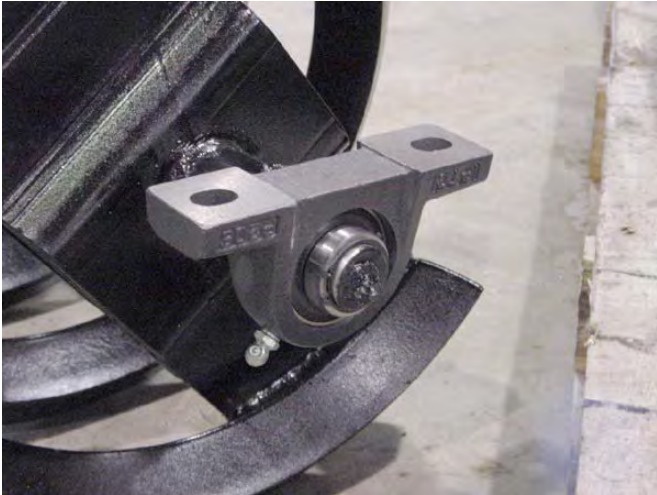
Coils



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



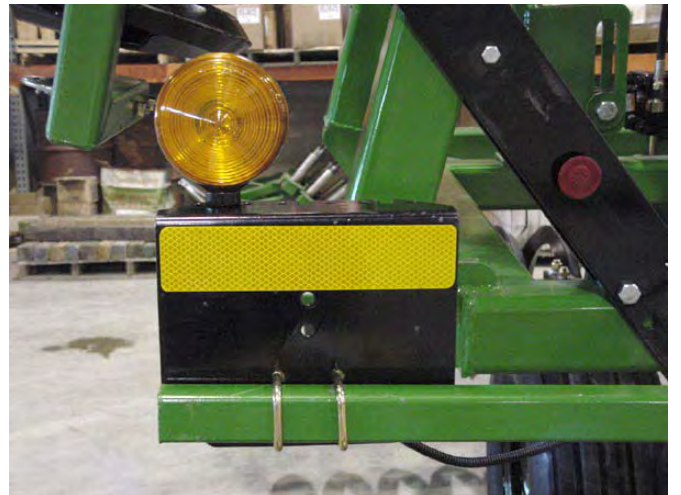
67. Mounting flat.



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

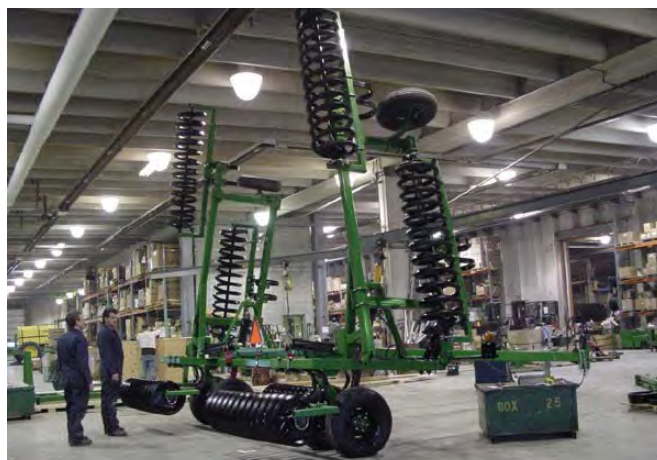


74. Front View

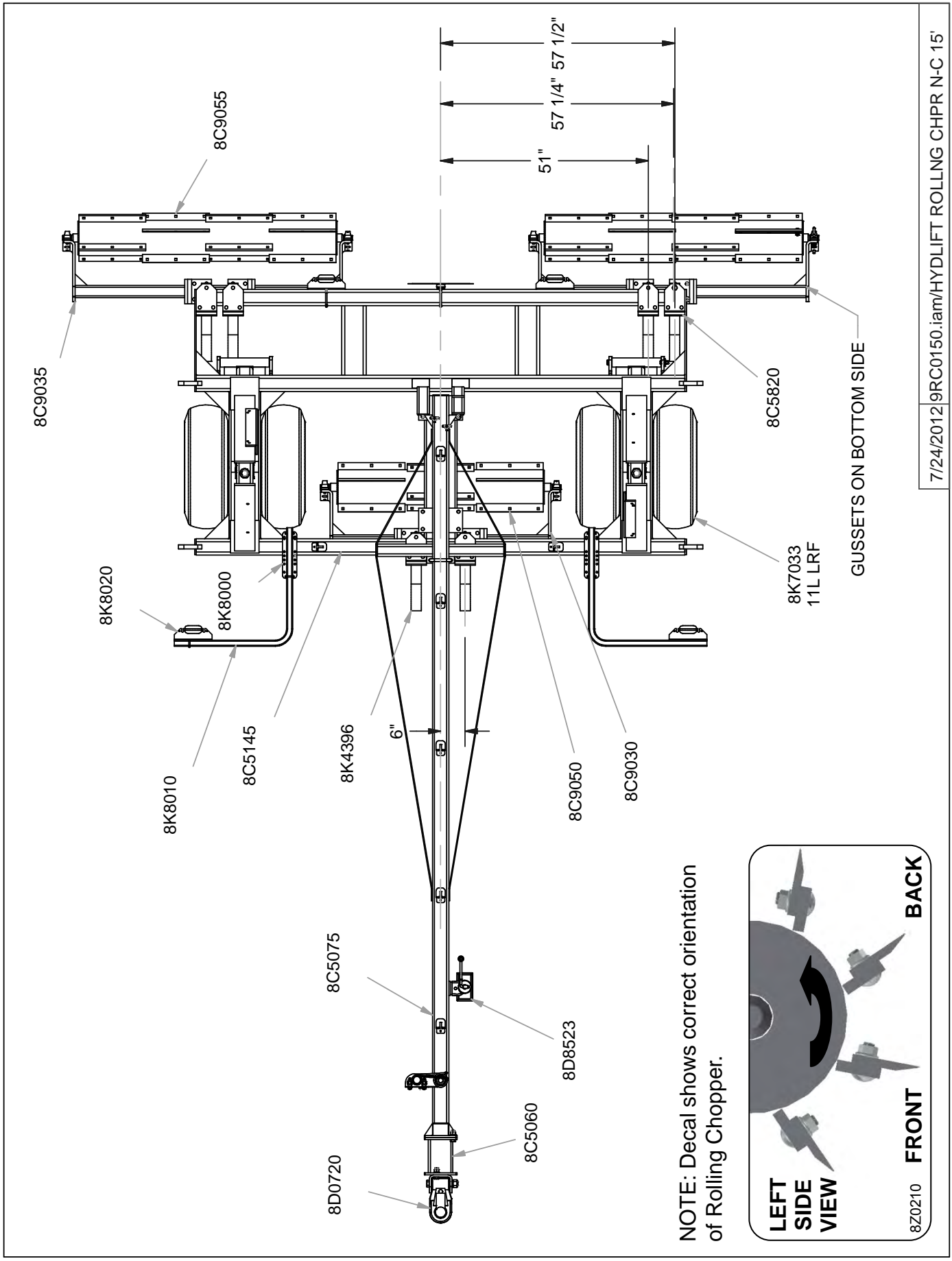


75. Front Left View.

76. Rear Right View.

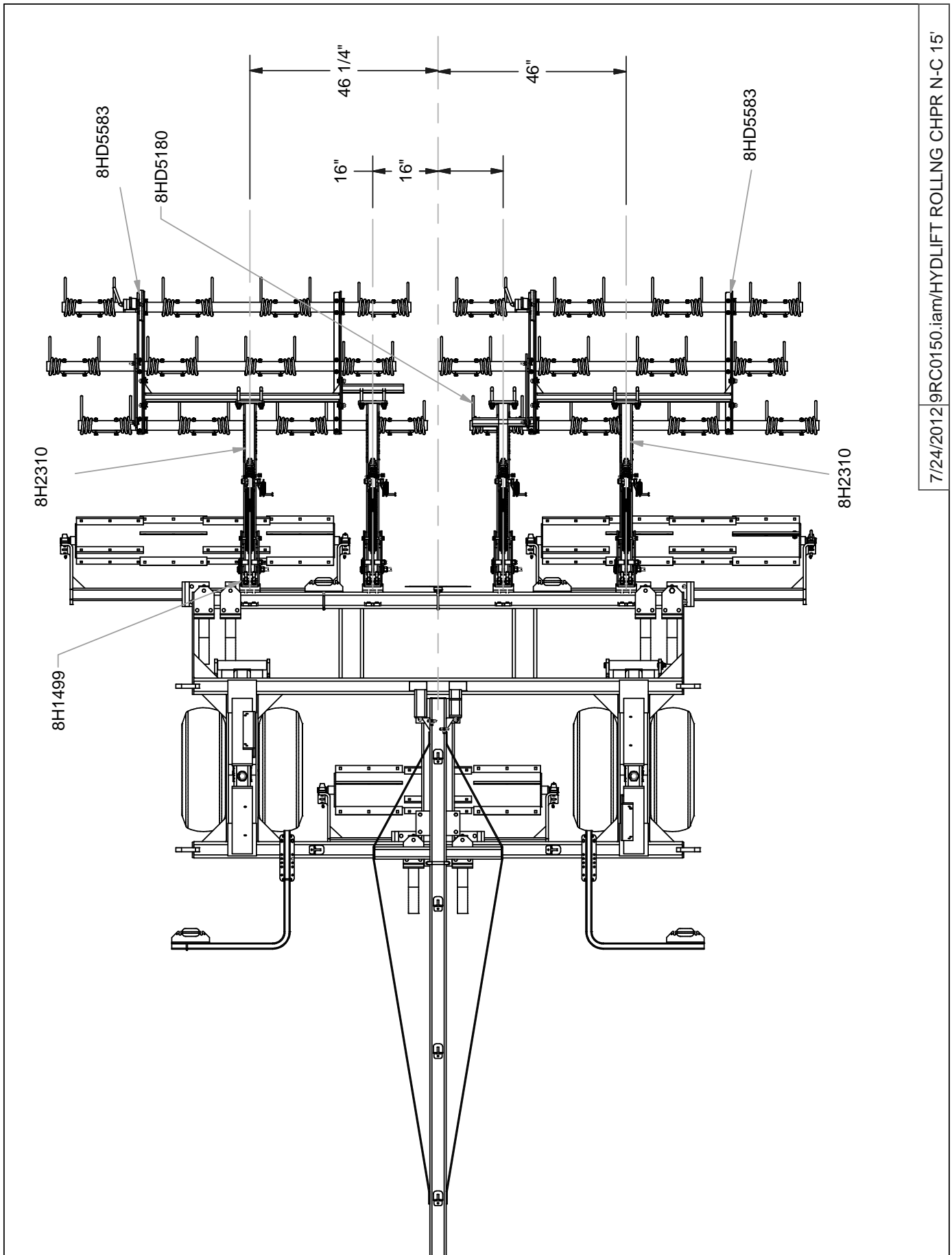


SECTION 2 - ASSEMBLY



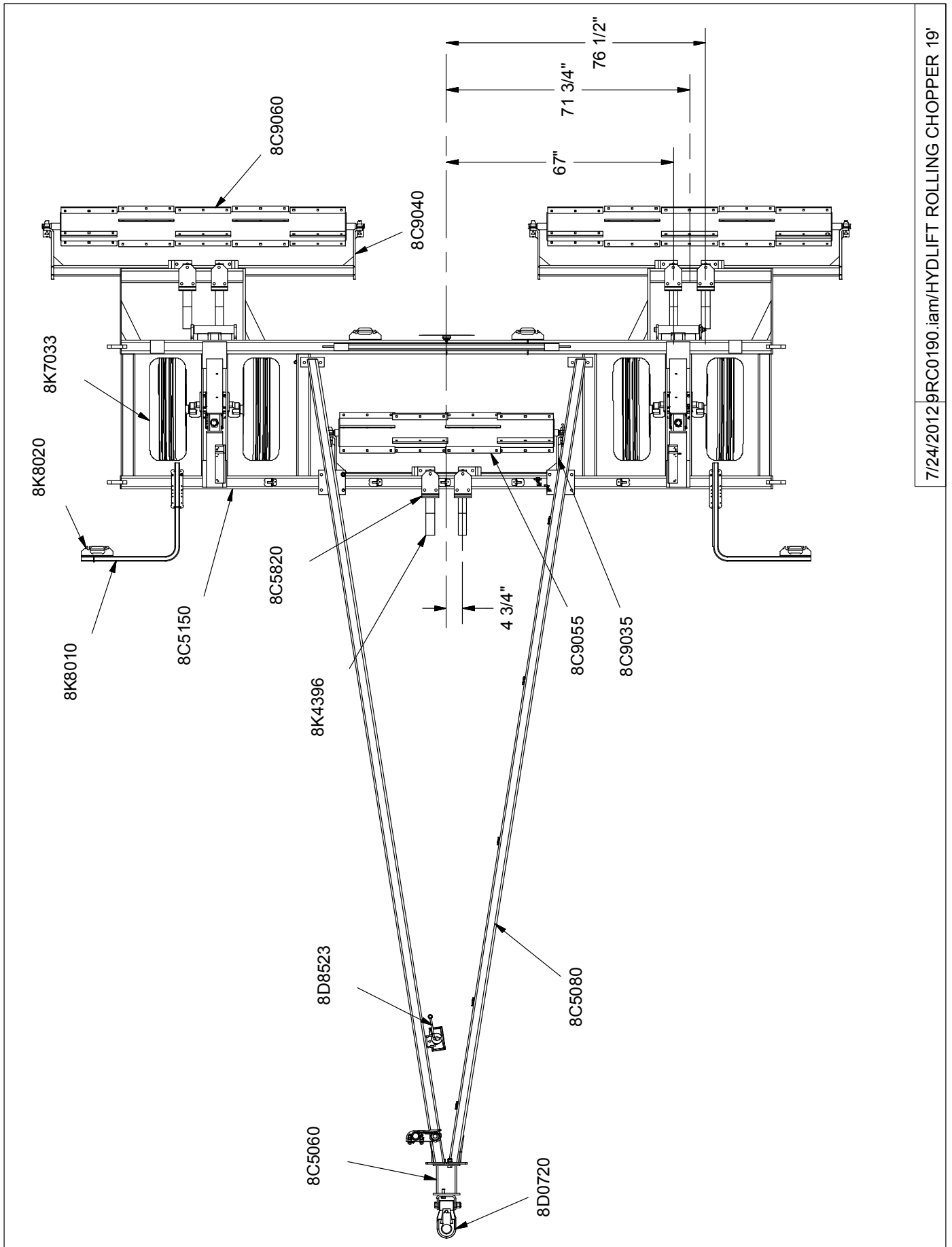
7/24/2012 9RC0150.iam/HYDLIFT ROLLING CHPR N-C 15'

SECTION 2 - ASSEMBLY



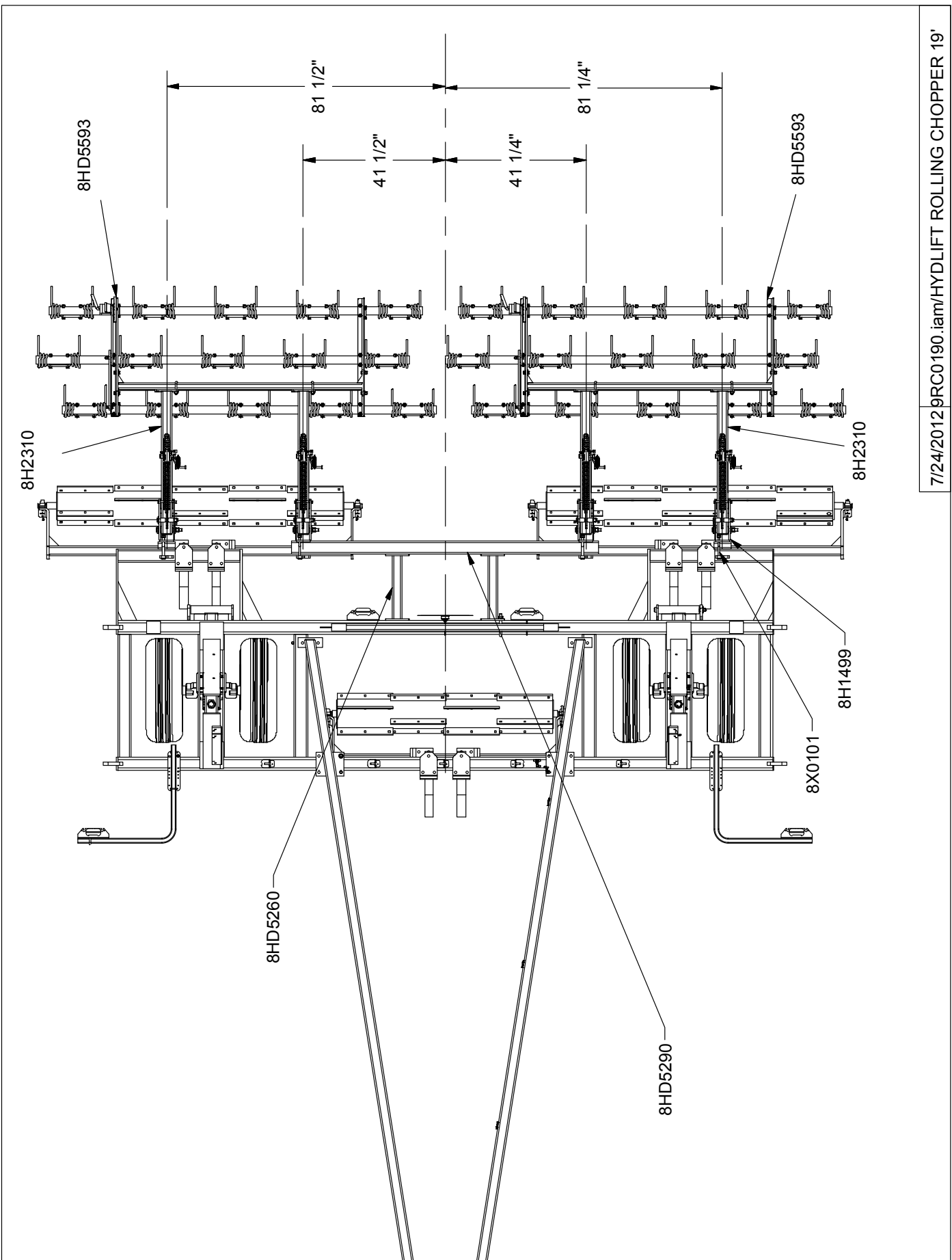
7/24/2012_9RC0150.iam/HYDLIFT ROLLING CHPR N-C 15'

SECTION 2 - ASSEMBLY



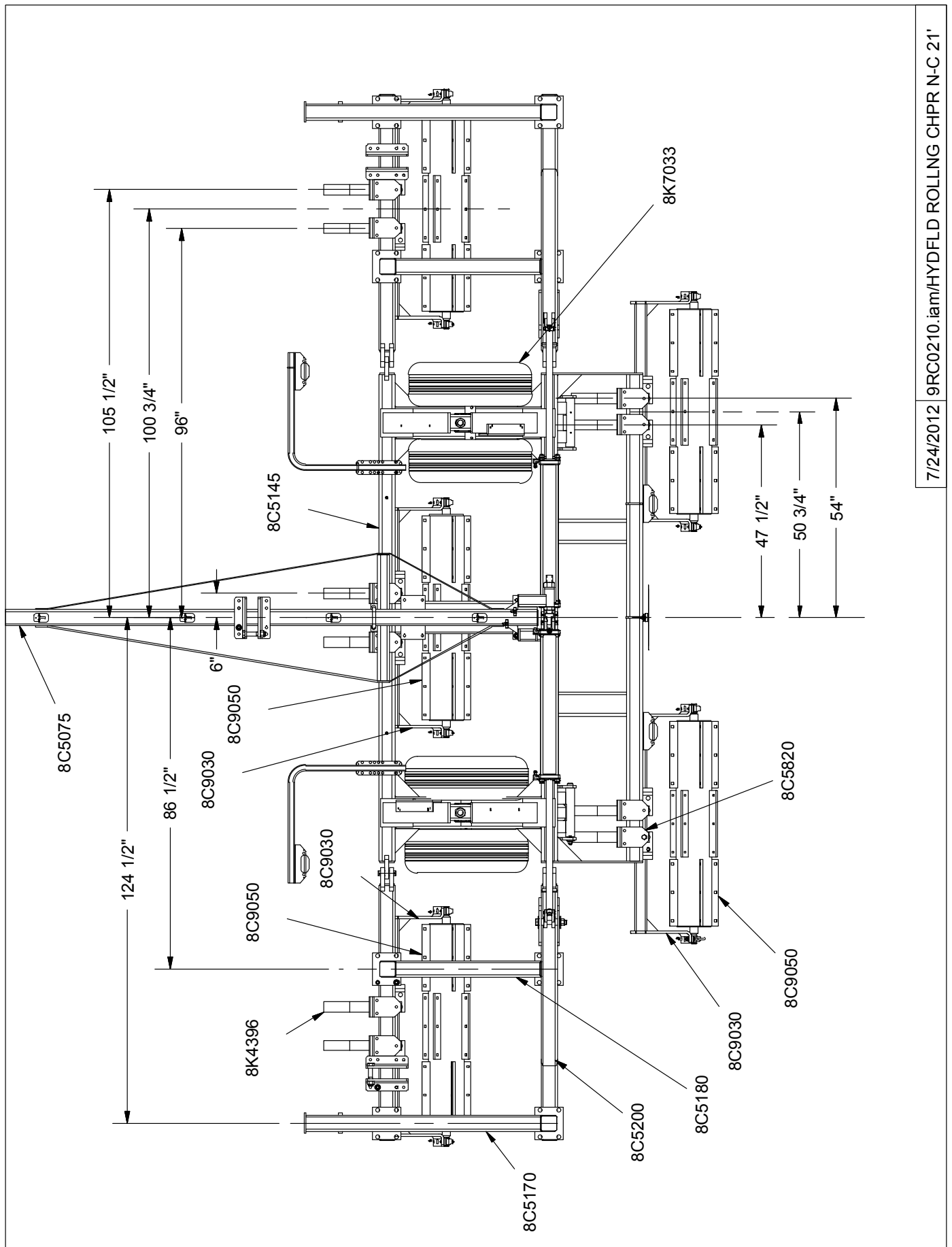
7/24/2012 9RC0190.iam/HYDLIFT ROLLING CHOPPER 19'

SECTION 2 - ASSEMBLY



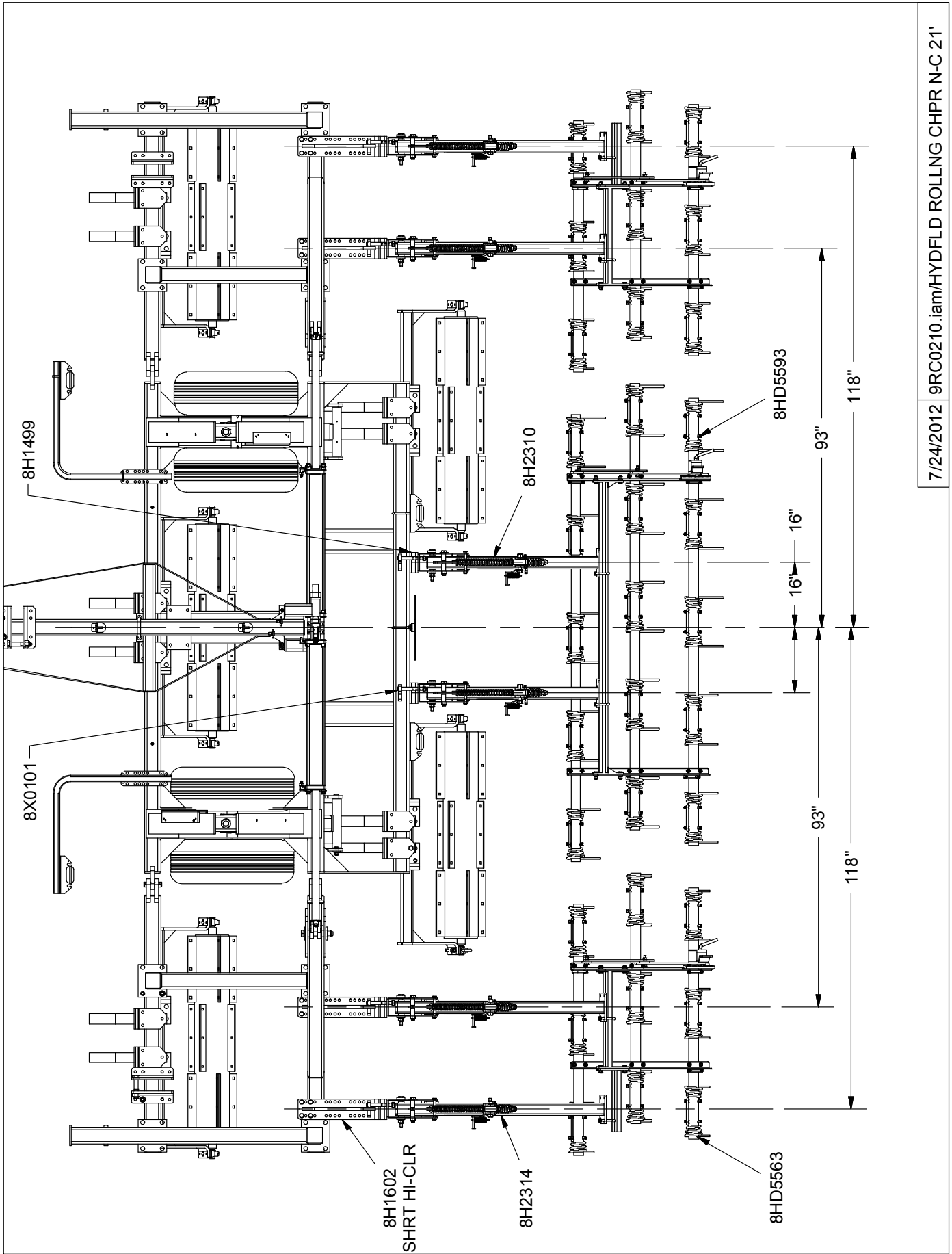
7/24/2012 9RC0190.iam/HYDLIFT ROLLING CHOPPER 19'

SECTION 2 - ASSEMBLY

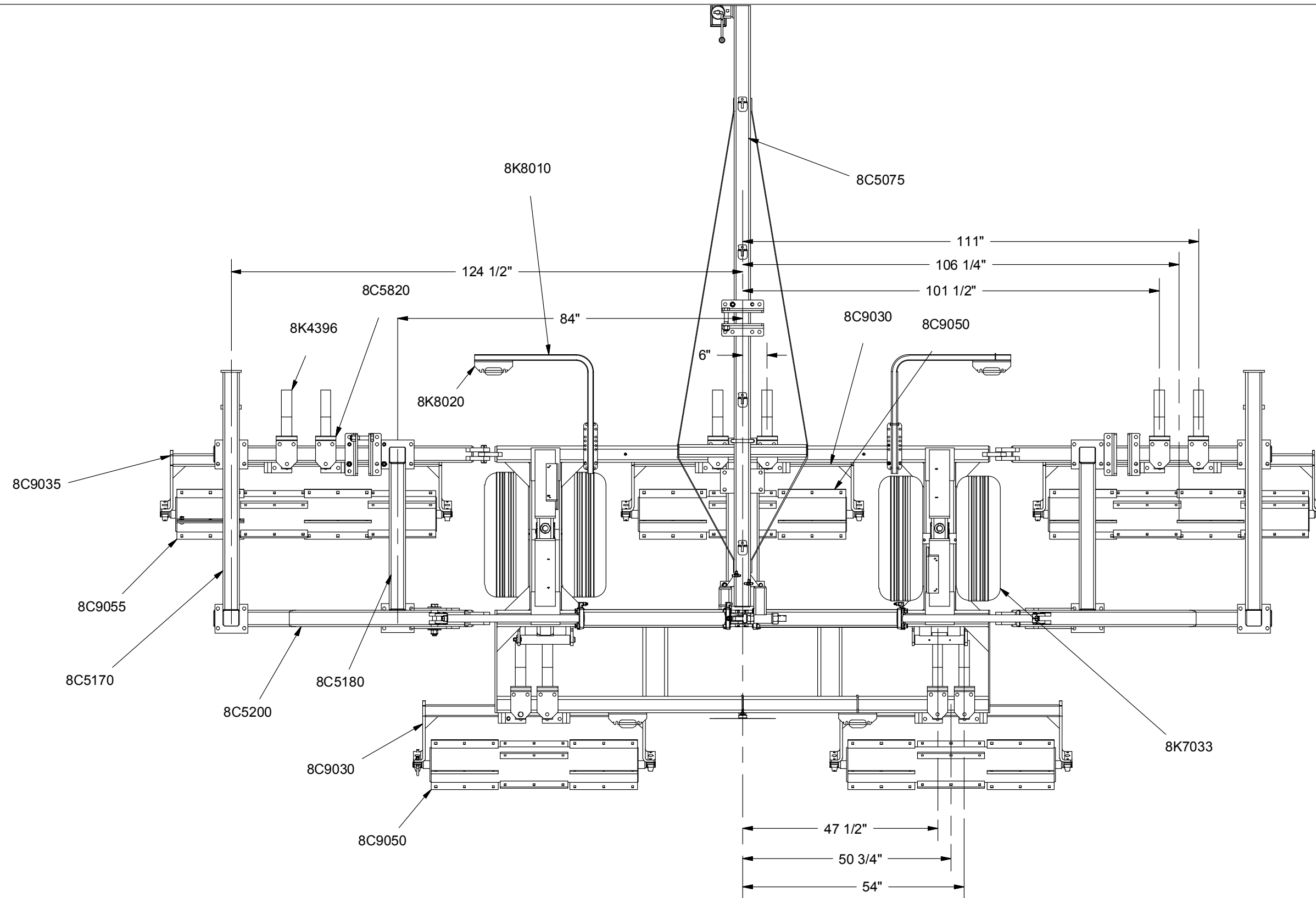


7/24/2012 9RC0210.iam/HYDFLD ROLLING CHPR N-C 21'

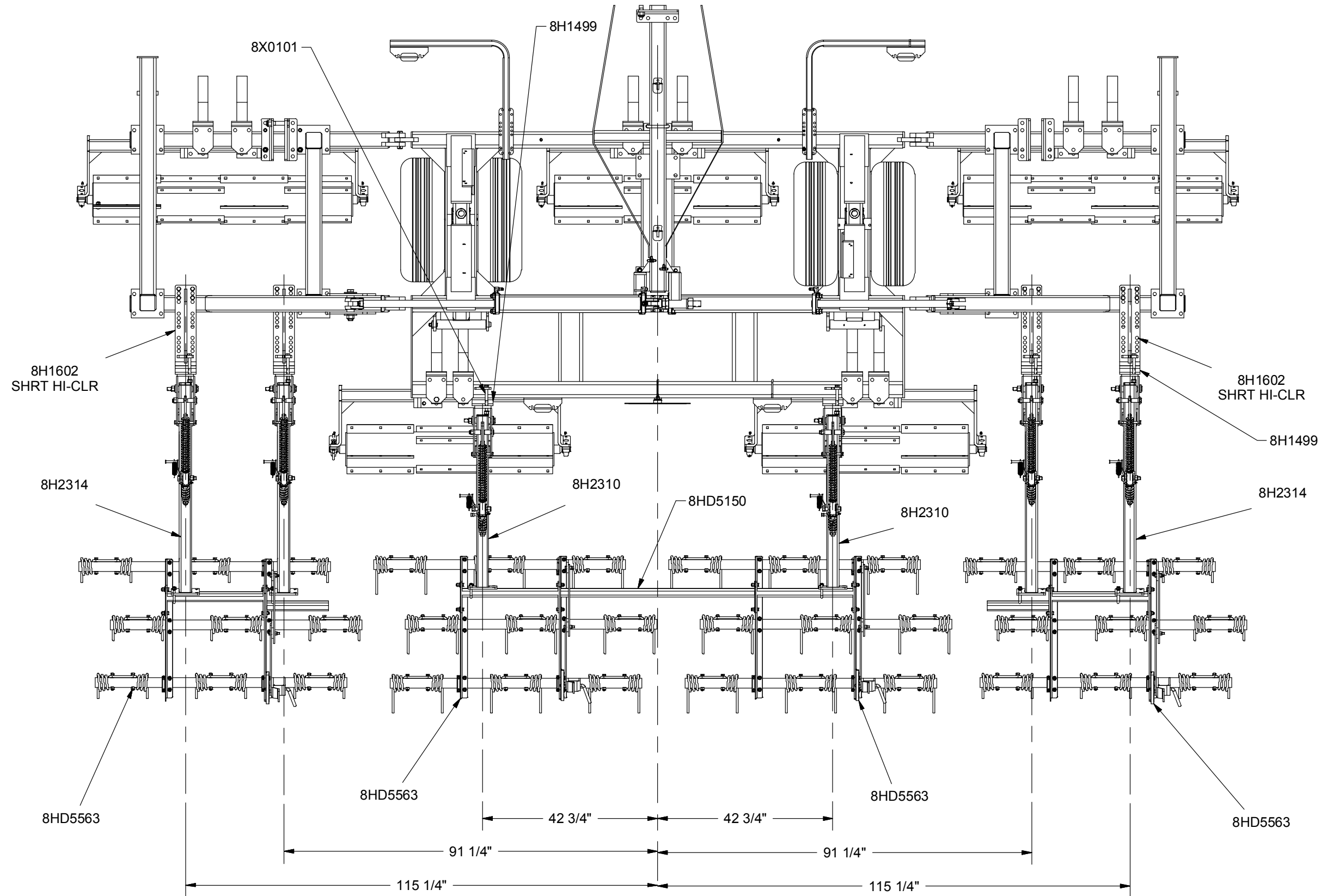
SECTION 2 - ASSEMBLY



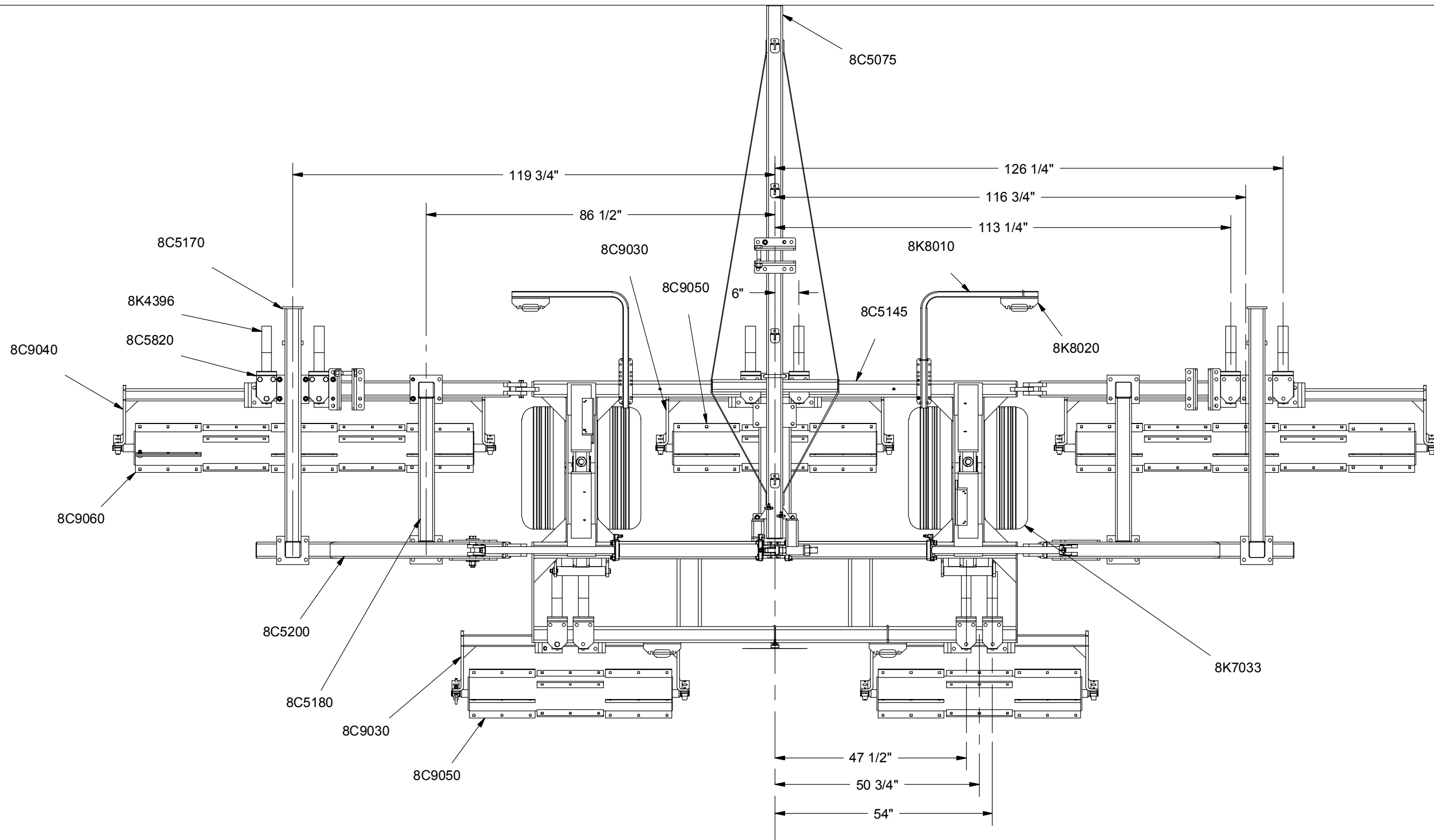
SECTION 2 - ASSEMBLY



SECTION 2 - ASSEMBLY

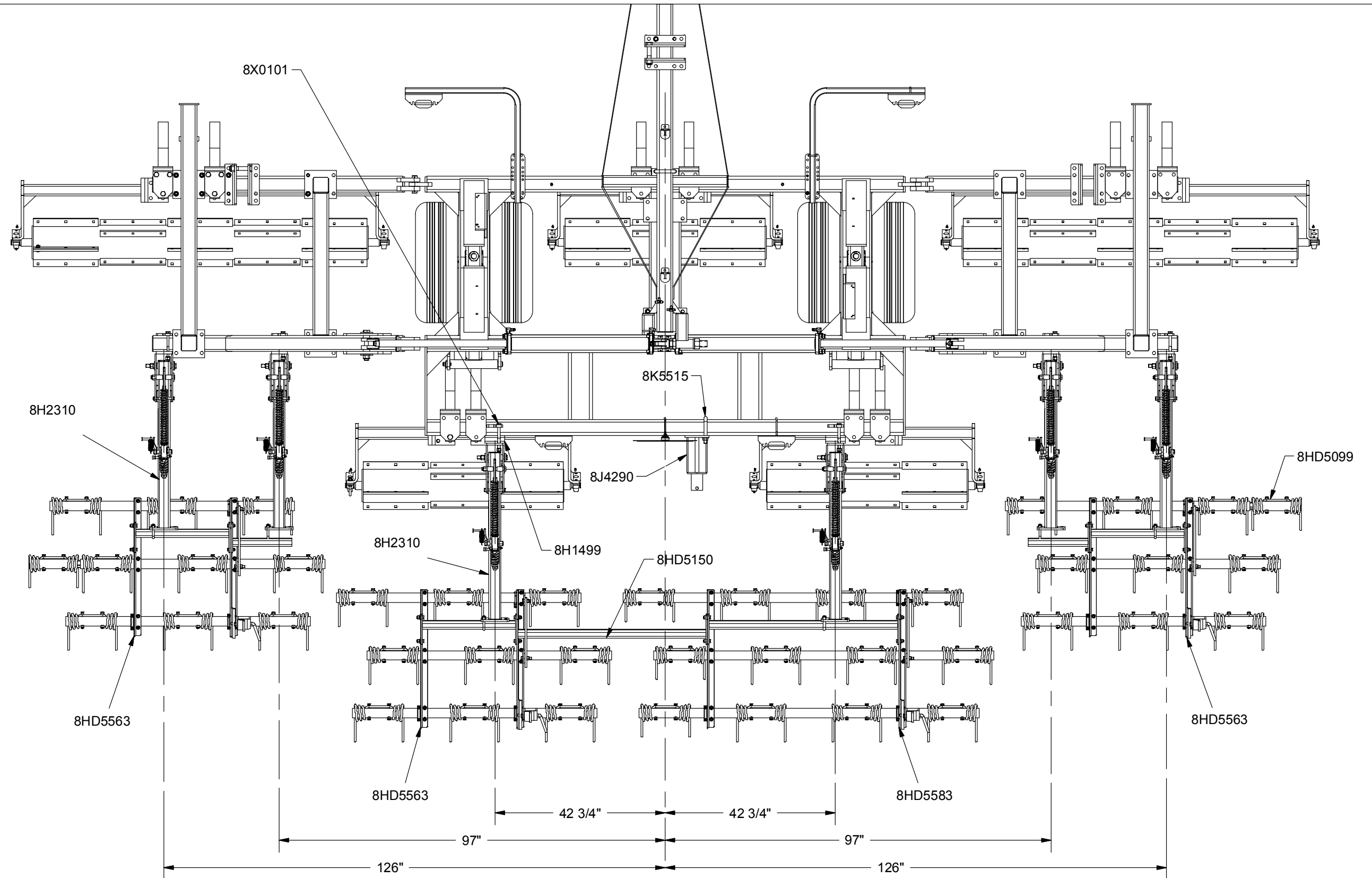


SECTION 2 - ASSEMBLY



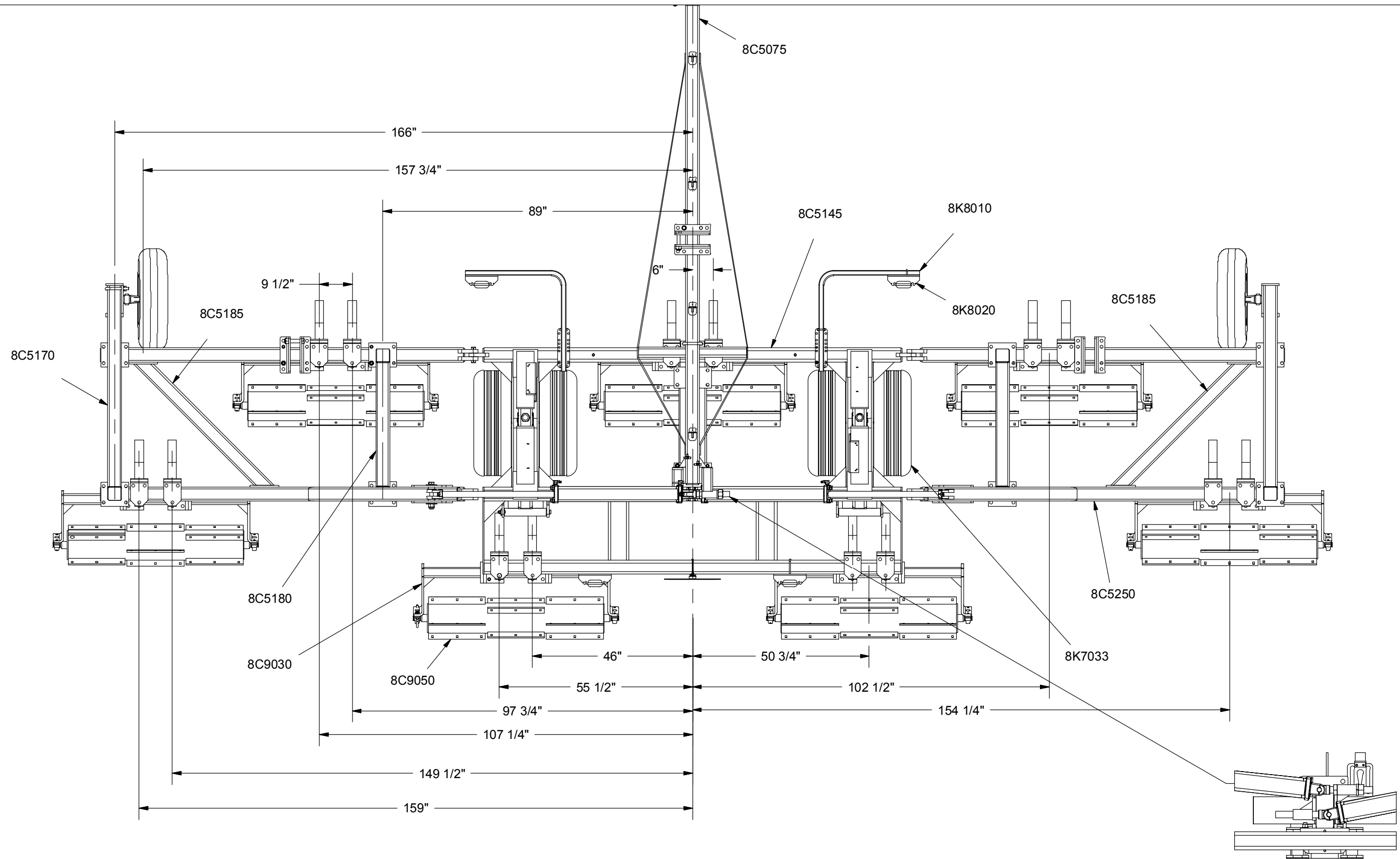
7/26/2012 9RC0265.iam/HYDFLD ROLLNG CHPR N-C26.5'

SECTION 2 - ASSEMBLY



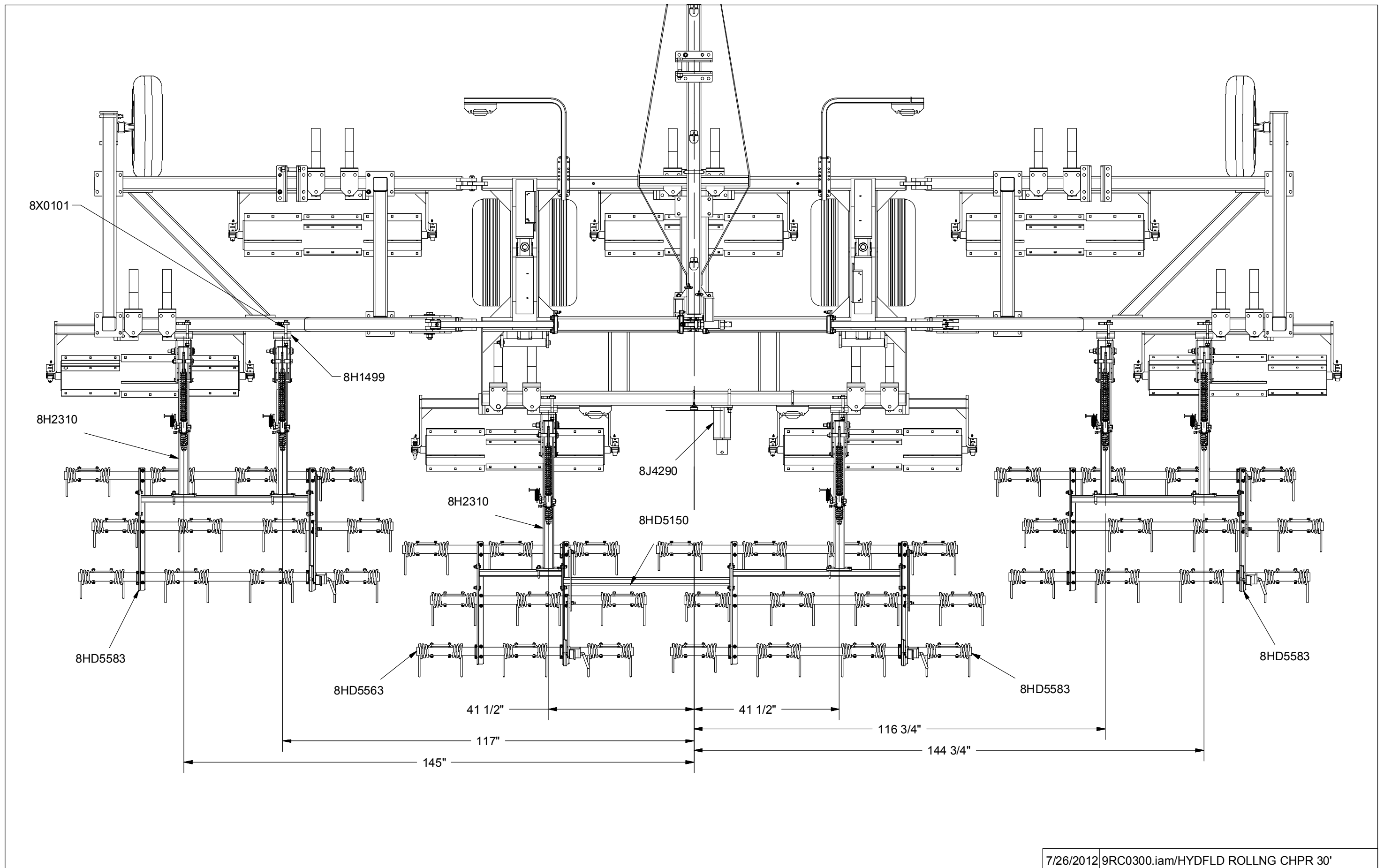
7/26/2012 9RC0265.iam/HYDFLD ROLLNG CHPR N-C26.5'

SECTION 2 - ASSEMBLY



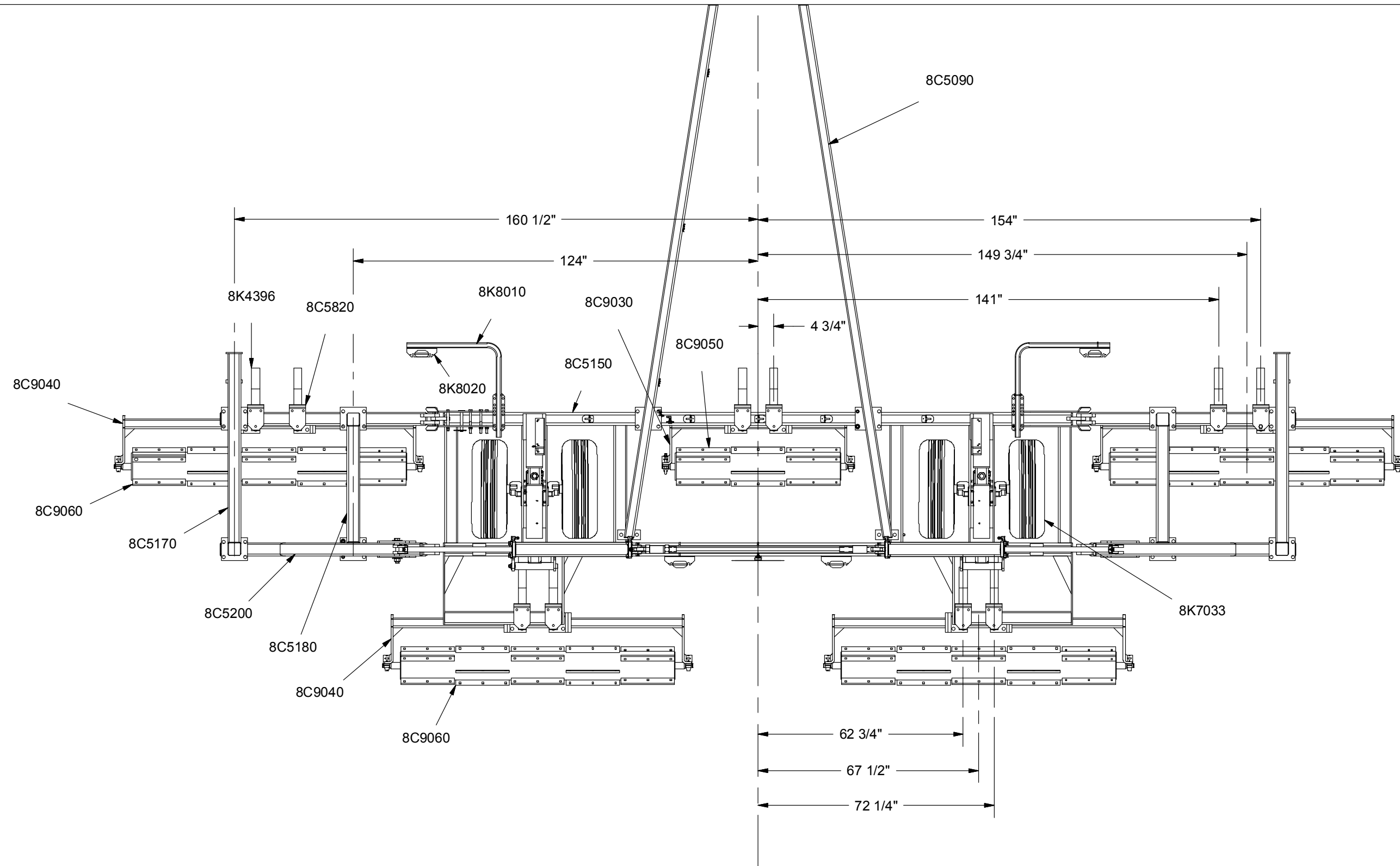
7/26/2012 9RC0300.iam/HYDFLD ROLLNG CHPR 30'

SECTION 2 - ASSEMBLY

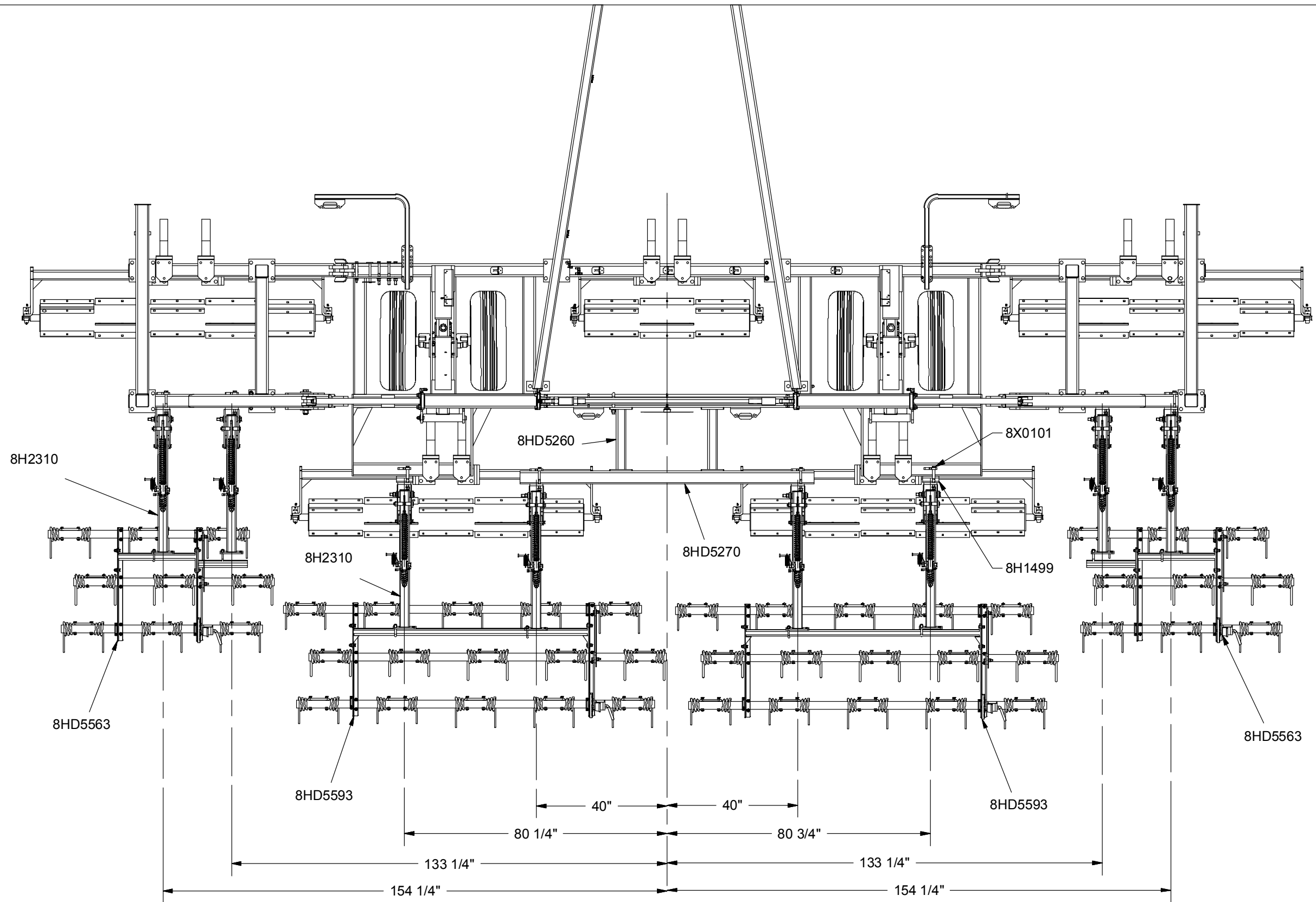


7/26/2012 9RC0300.iam/HYDFLD ROLLNG CHPR 30'

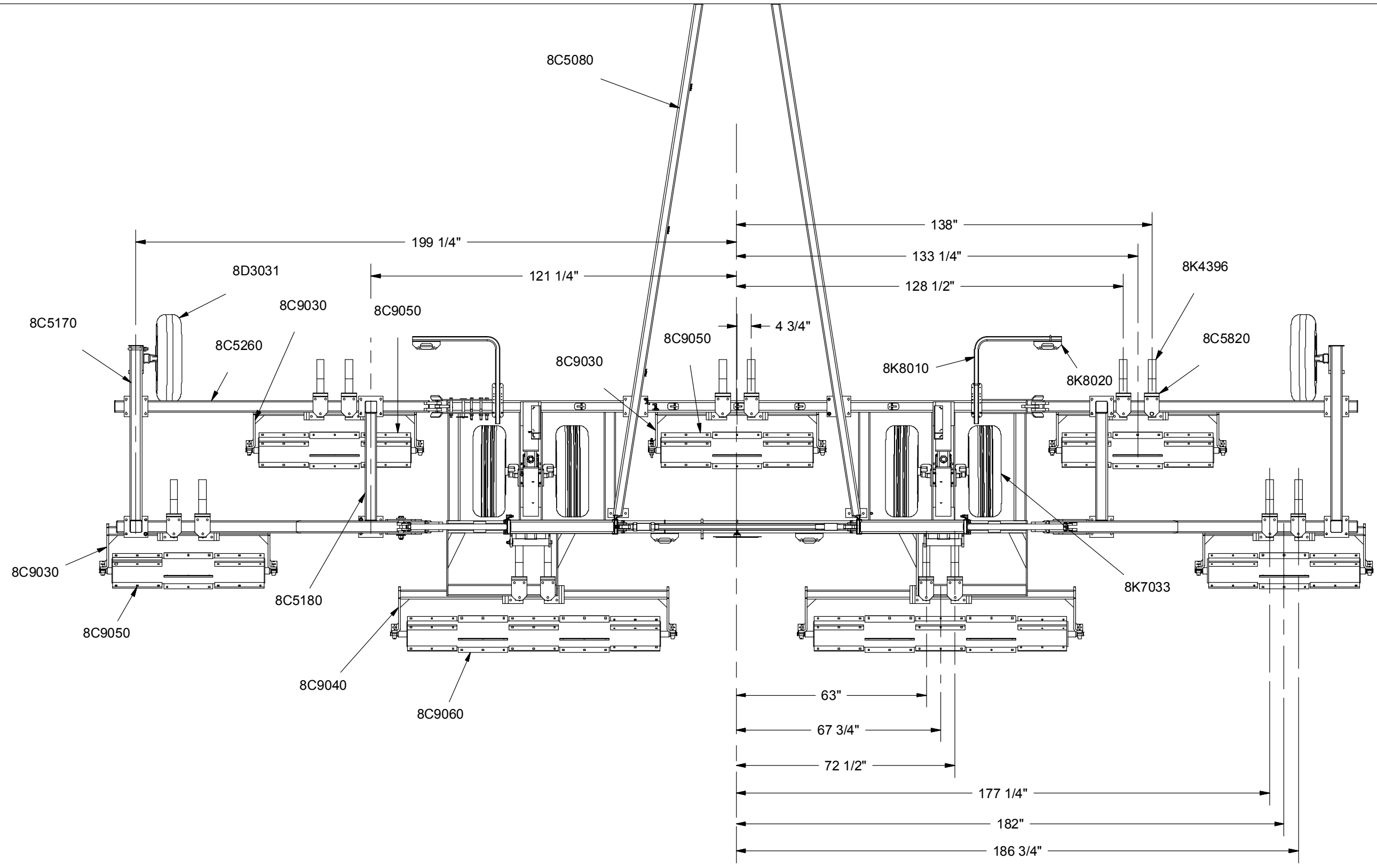
SECTION 2 - ASSEMBLY



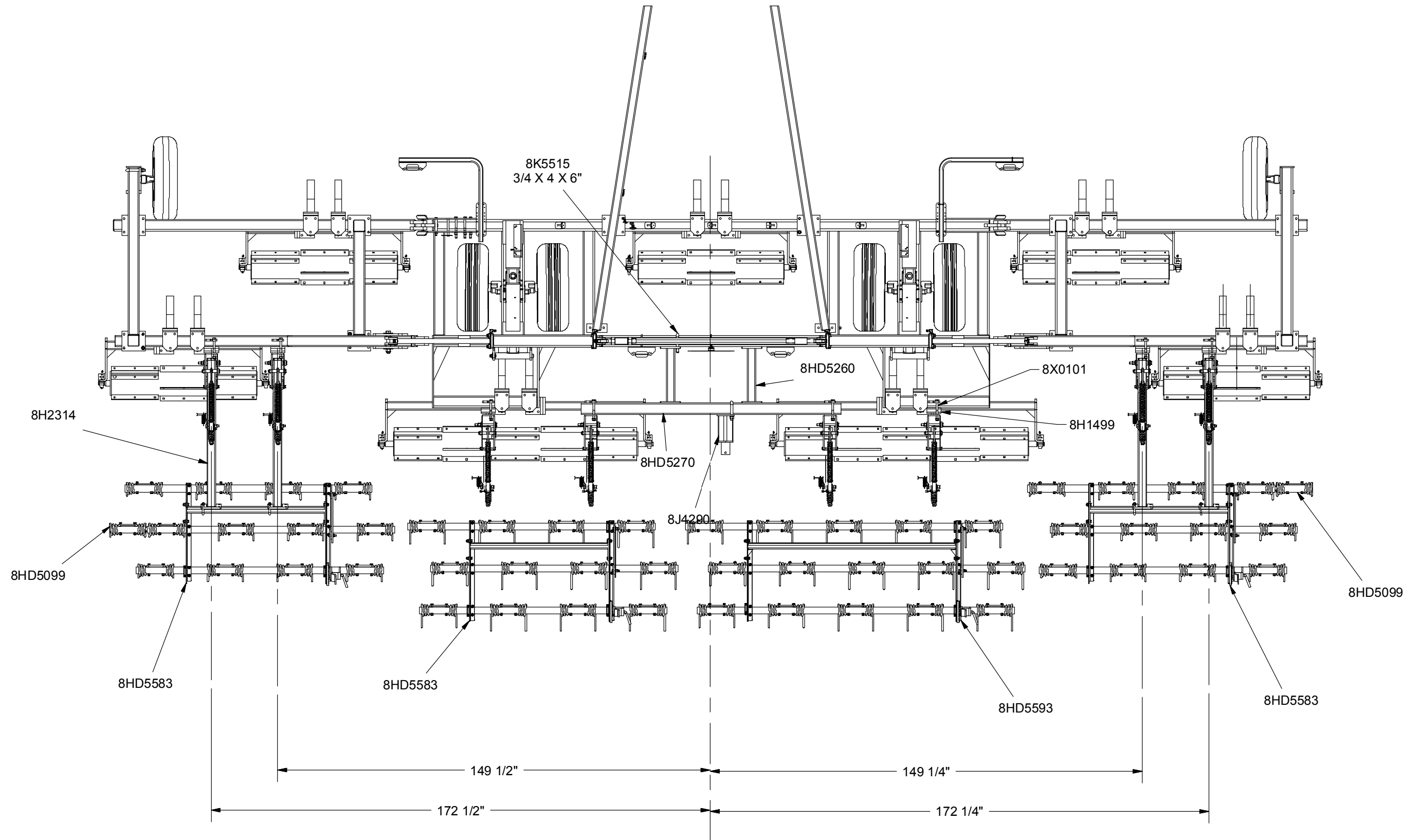
SECTION 2 - ASSEMBLY



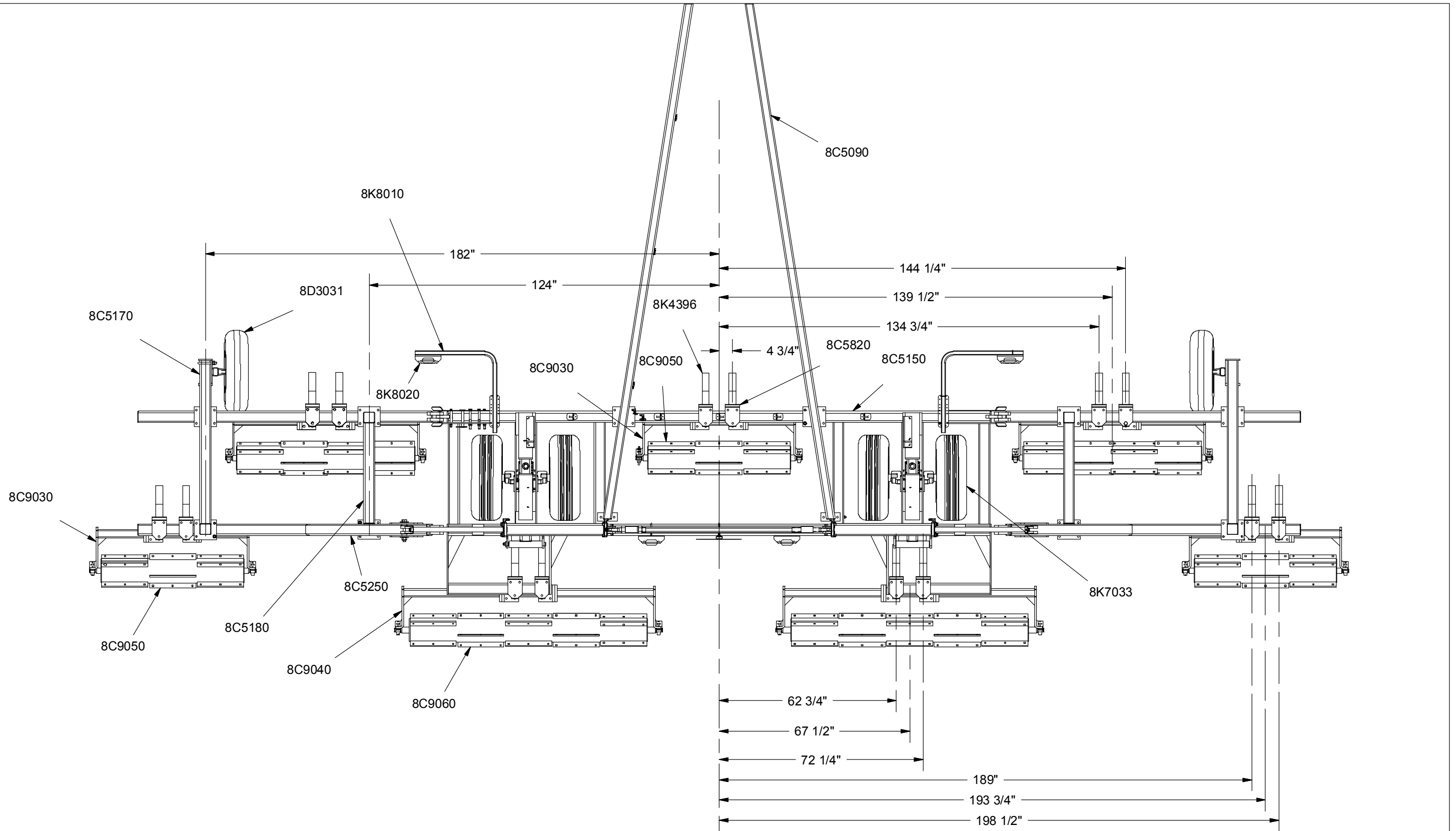
SECTION 2 - ASSEMBLY



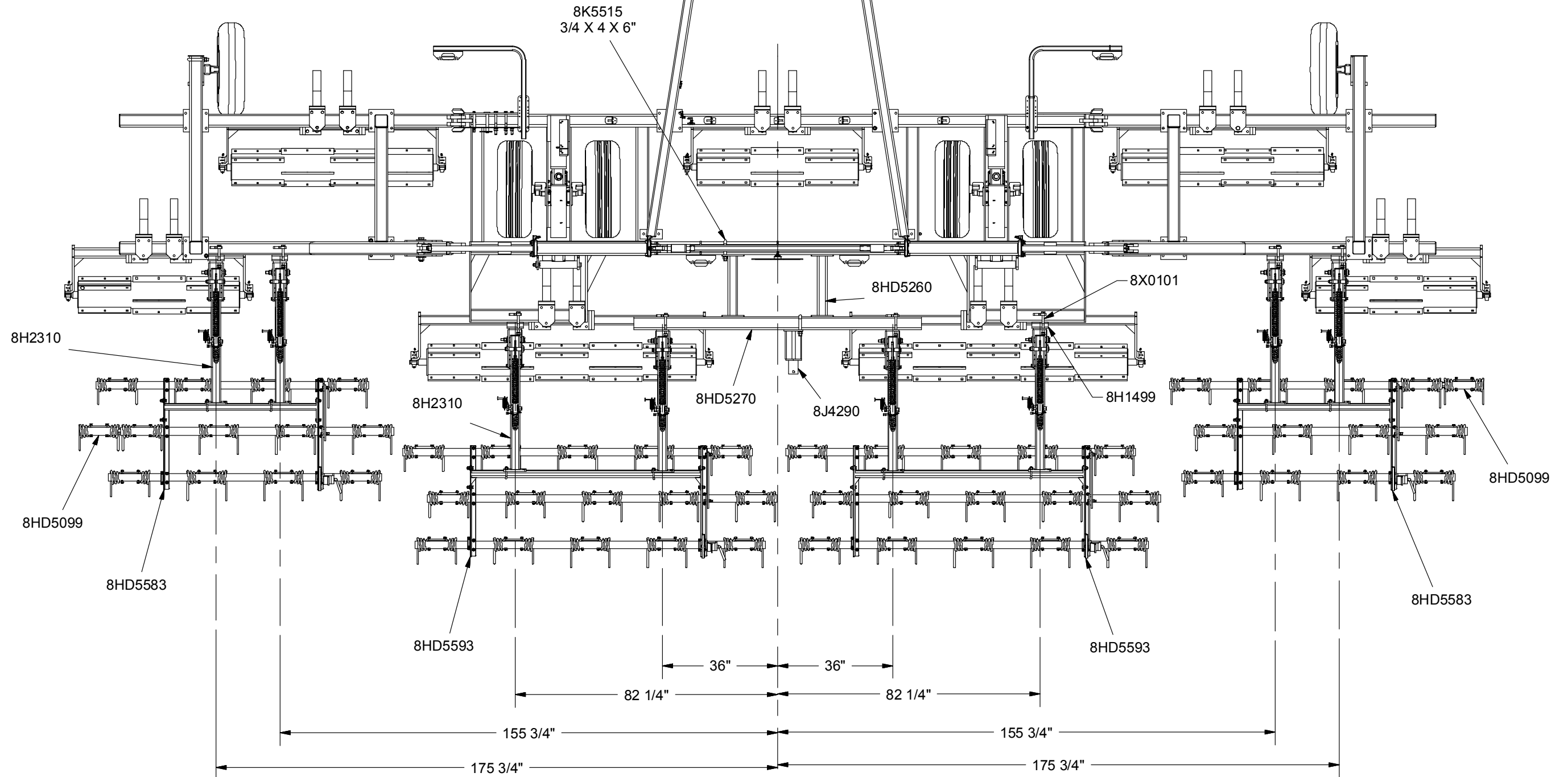
SECTION 2 - ASSEMBLY



SECTION 2 - ASSEMBLY

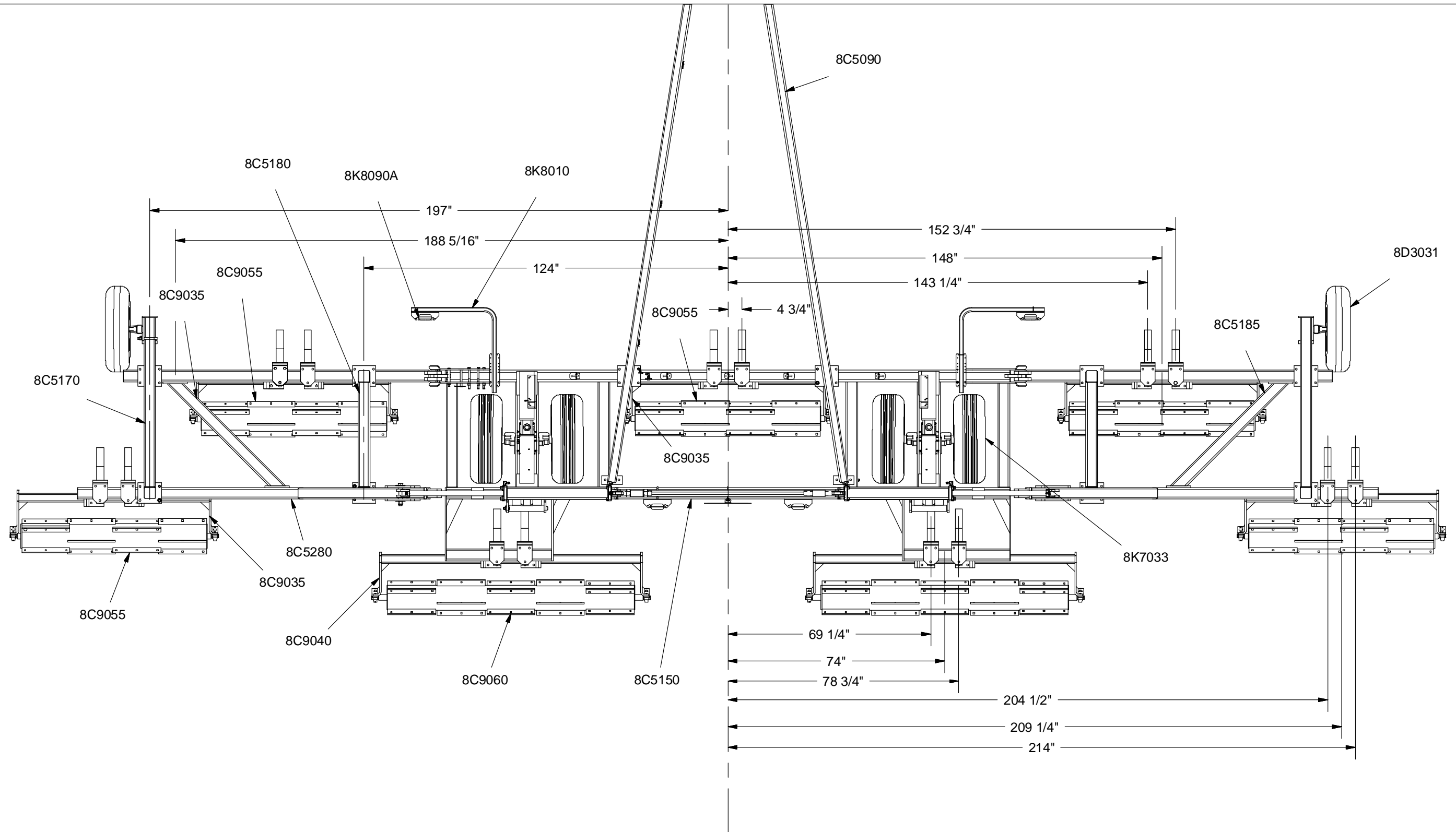


SECTION 2 - ASSEMBLY

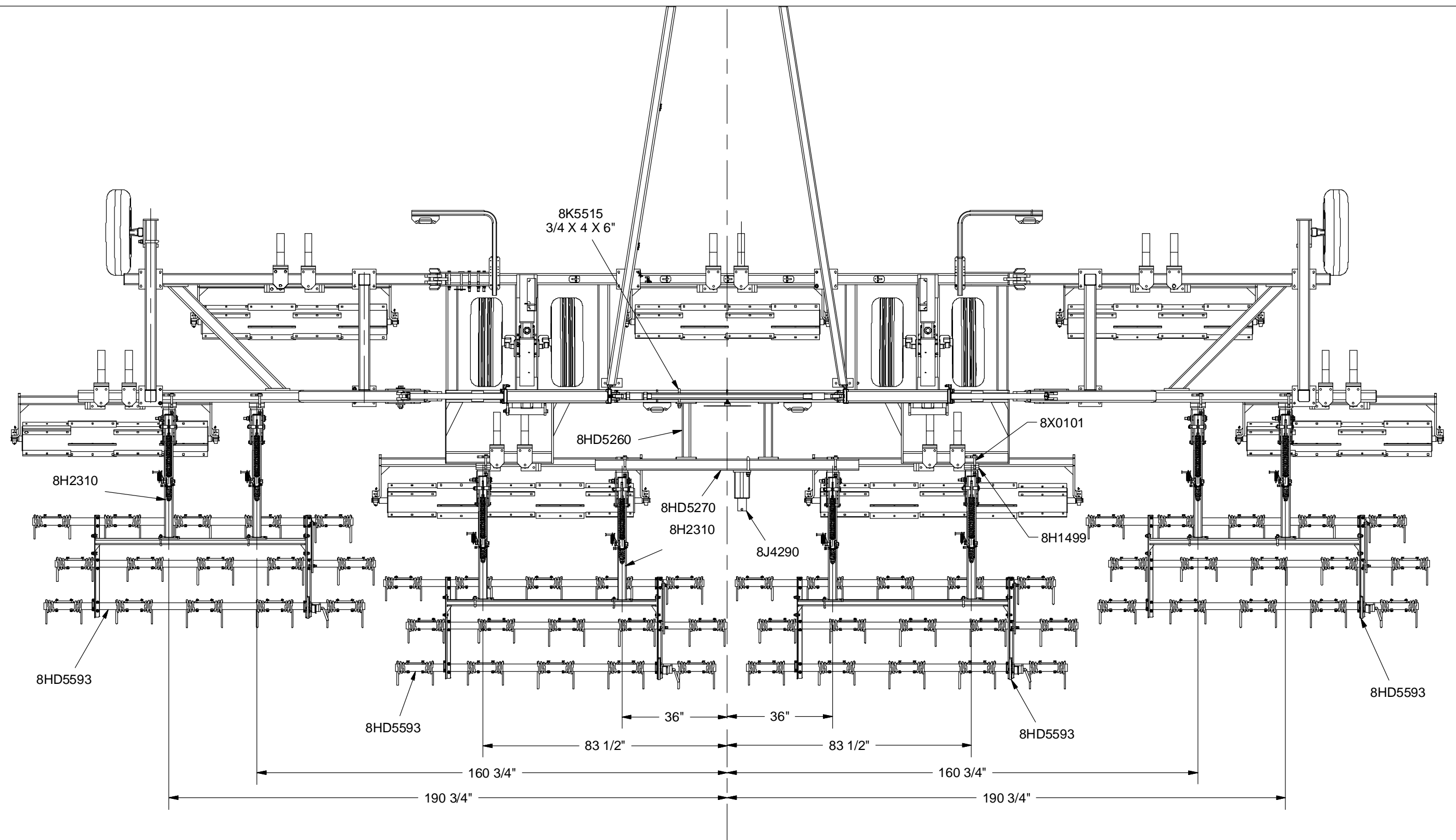


7/26/2012 9RC0365.iam/HYDFLD ROLLING CHOPPER 36.5'

SECTION 2 - ASSEMBLY

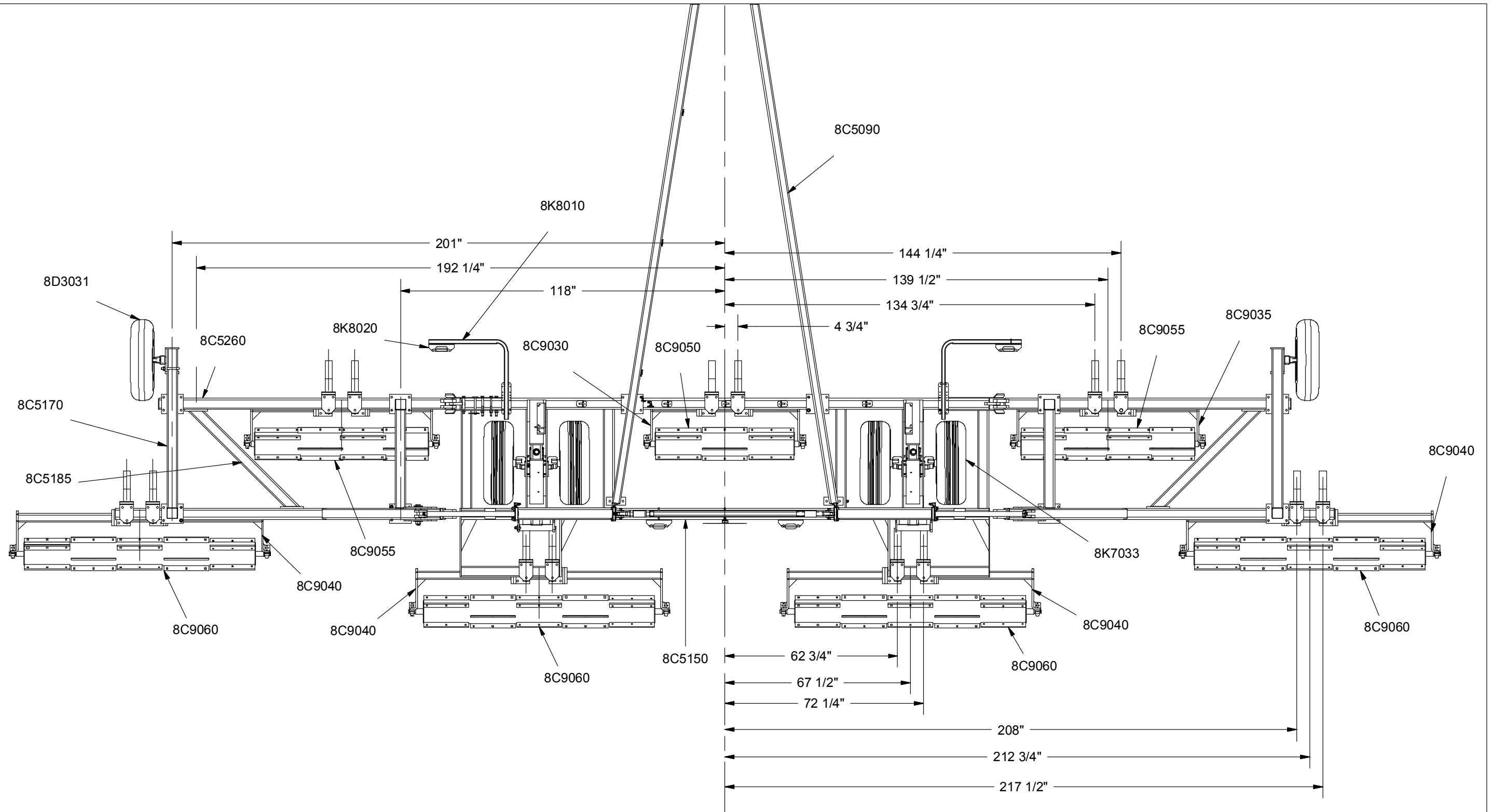


SECTION 2 - ASSEMBLY



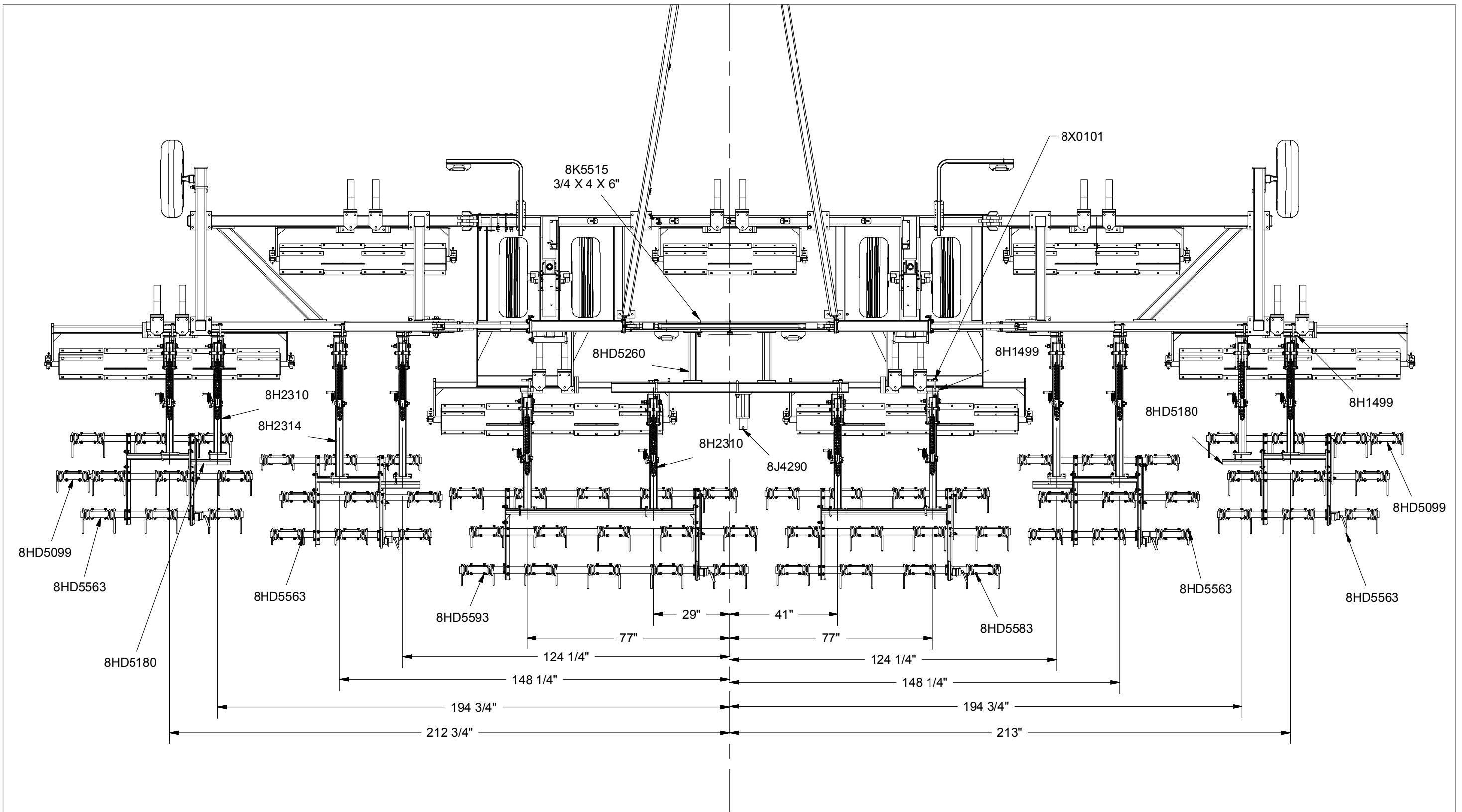
7/26/2012 9RC0400.iam/HYDFLD ROLLING CHOPPER 40'

SECTION 2 - ASSEMBLY



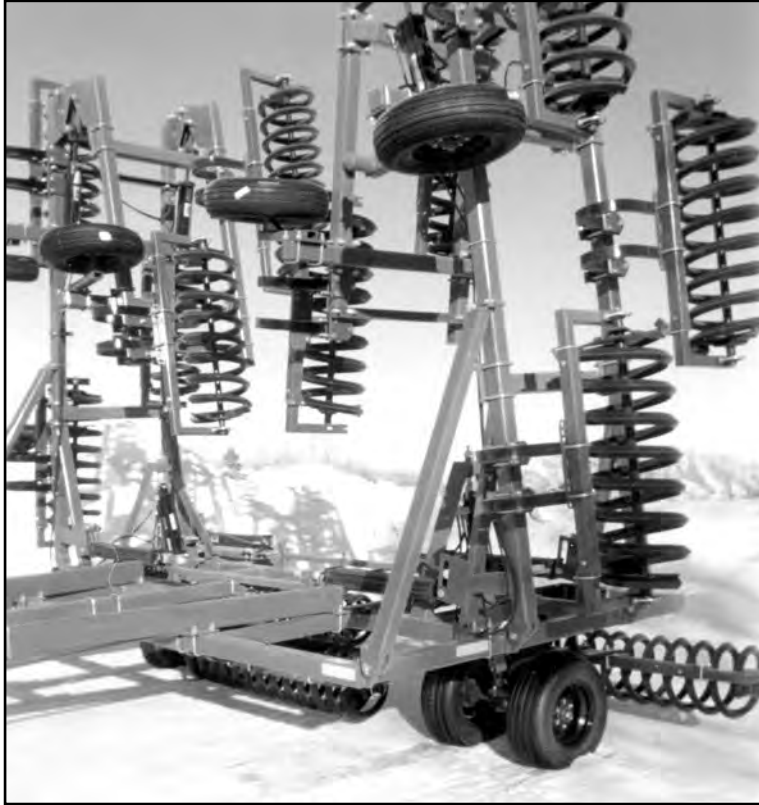
7/26/2012 9RC0425.iam/HYDFLD ROLLING CHOPPER 42.5'

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.

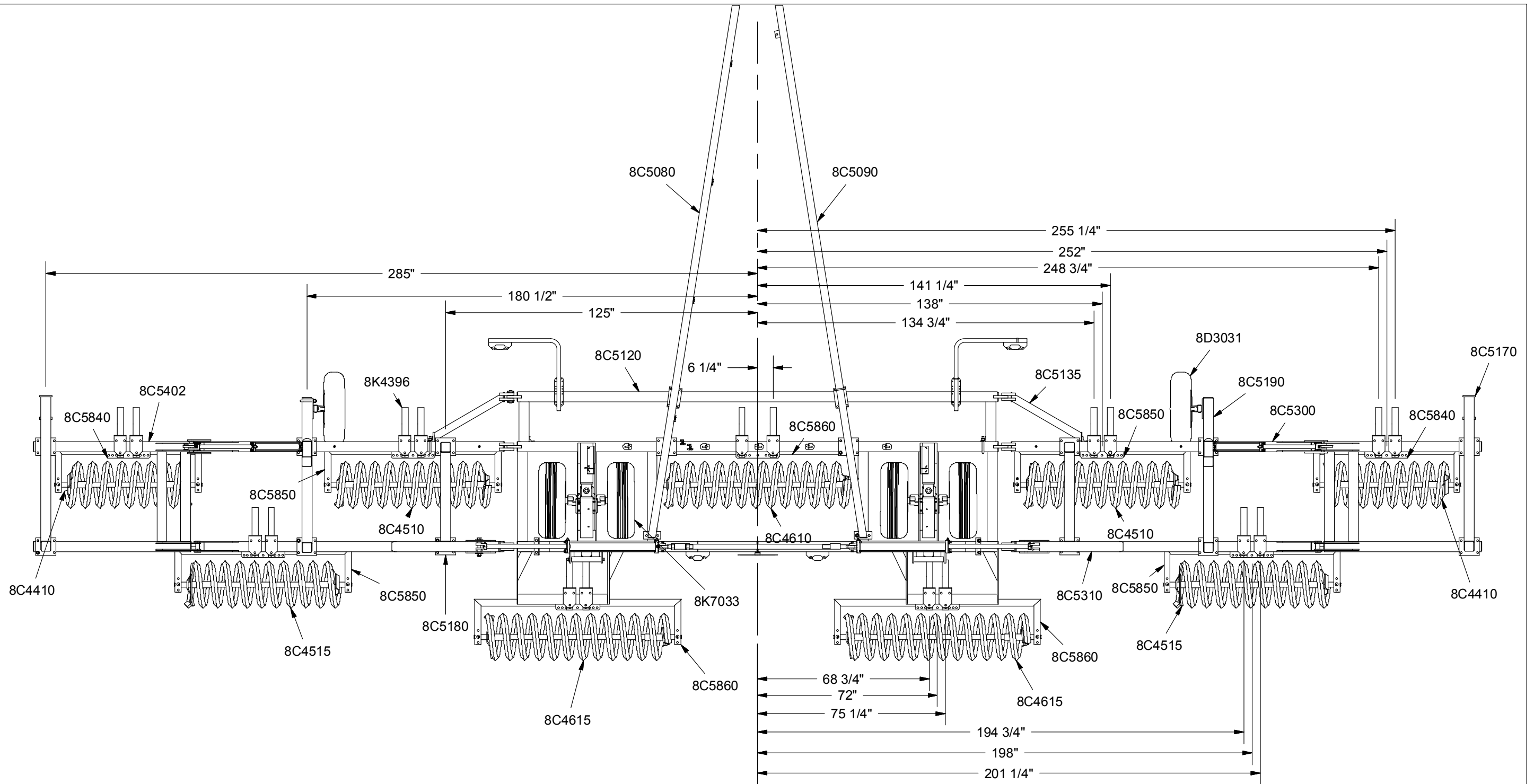
COIL/CHOPPER ASSEMBLIES

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

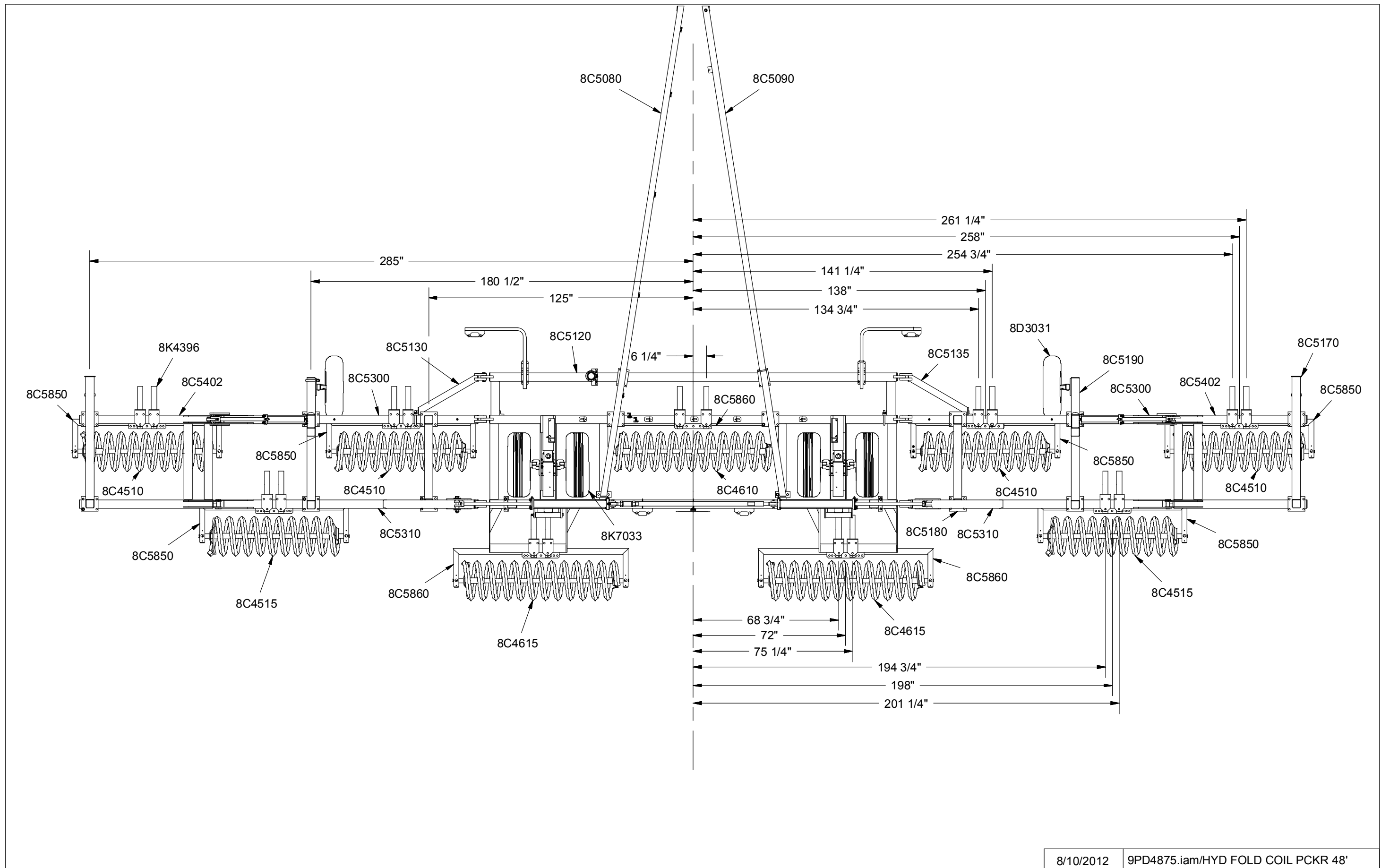
Install SMV sign at rear center of machine. Install Wing and Main transport locks. Install decals. Install Safety Lighting components. Where possible, run wiring harnesses next to hydraulic hoses. Secure with nylon ties.

SECTION 2 - ASSEMBLY



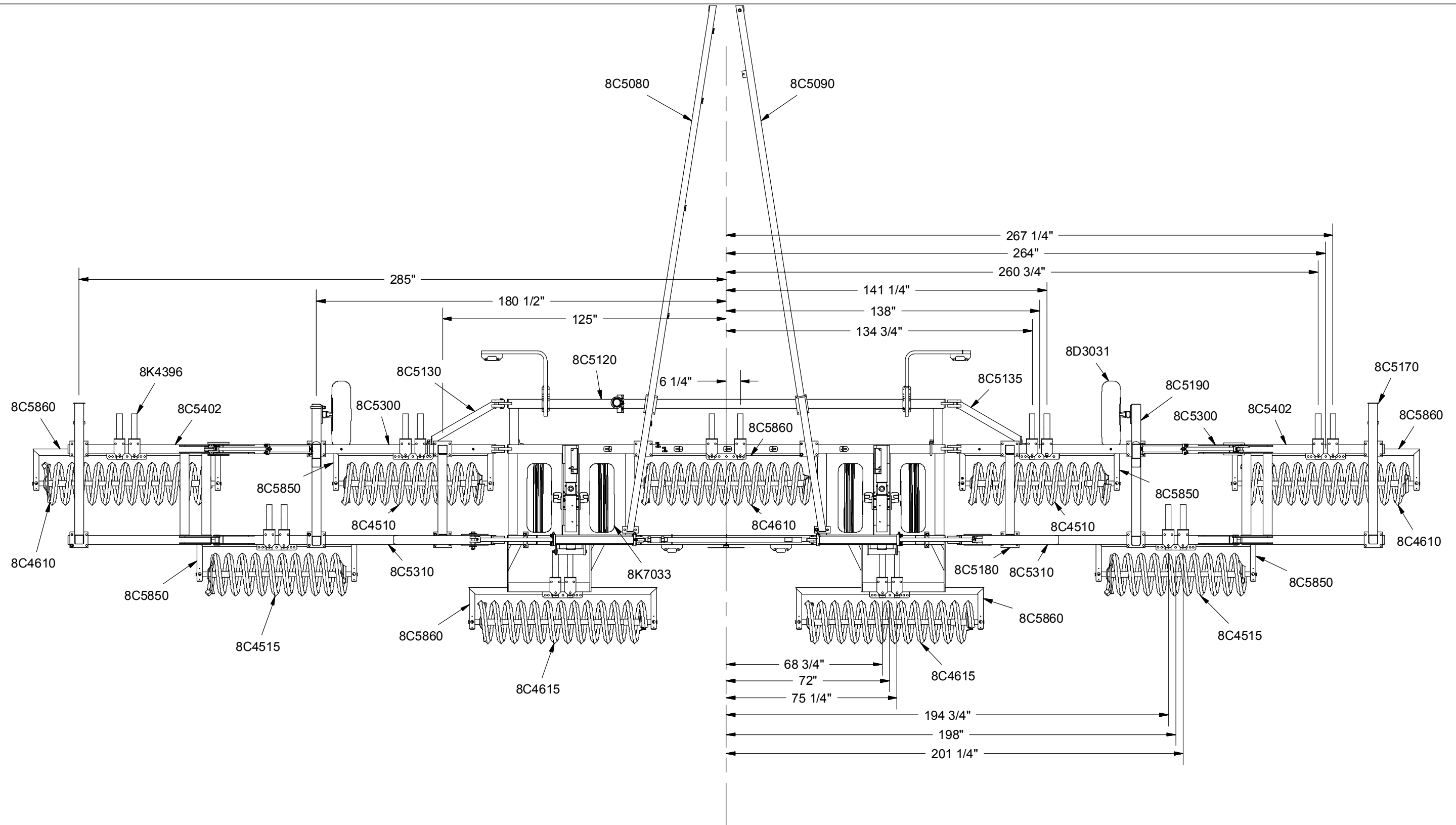
2/22/2013 9PD4675.iam/HYD FOLD COIL PCKR 46'

SECTION 2 - ASSEMBLY



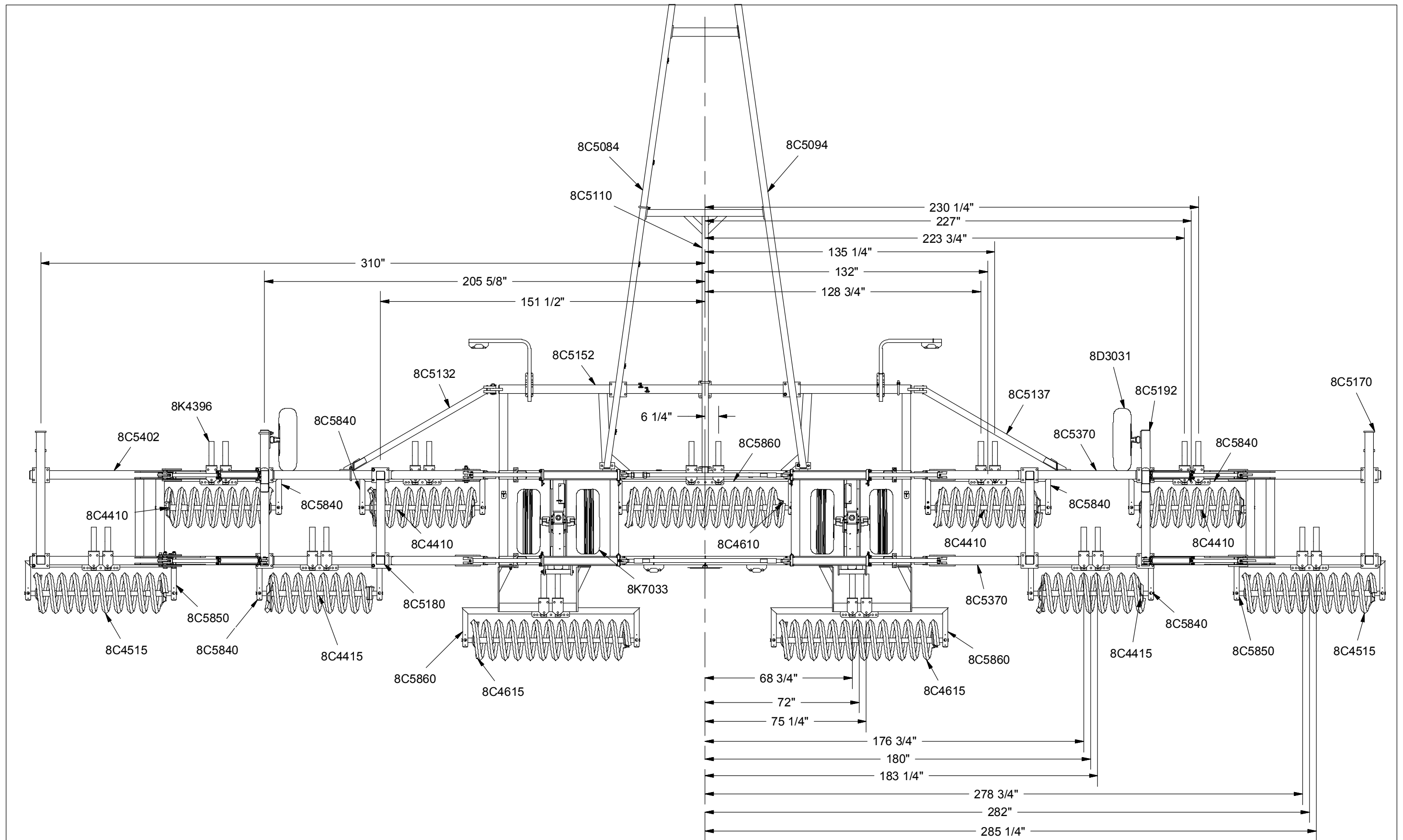
8/10/2012 9PD4875.iam/HYD FOLD COIL PCKR 48'

SECTION 2 - ASSEMBLY



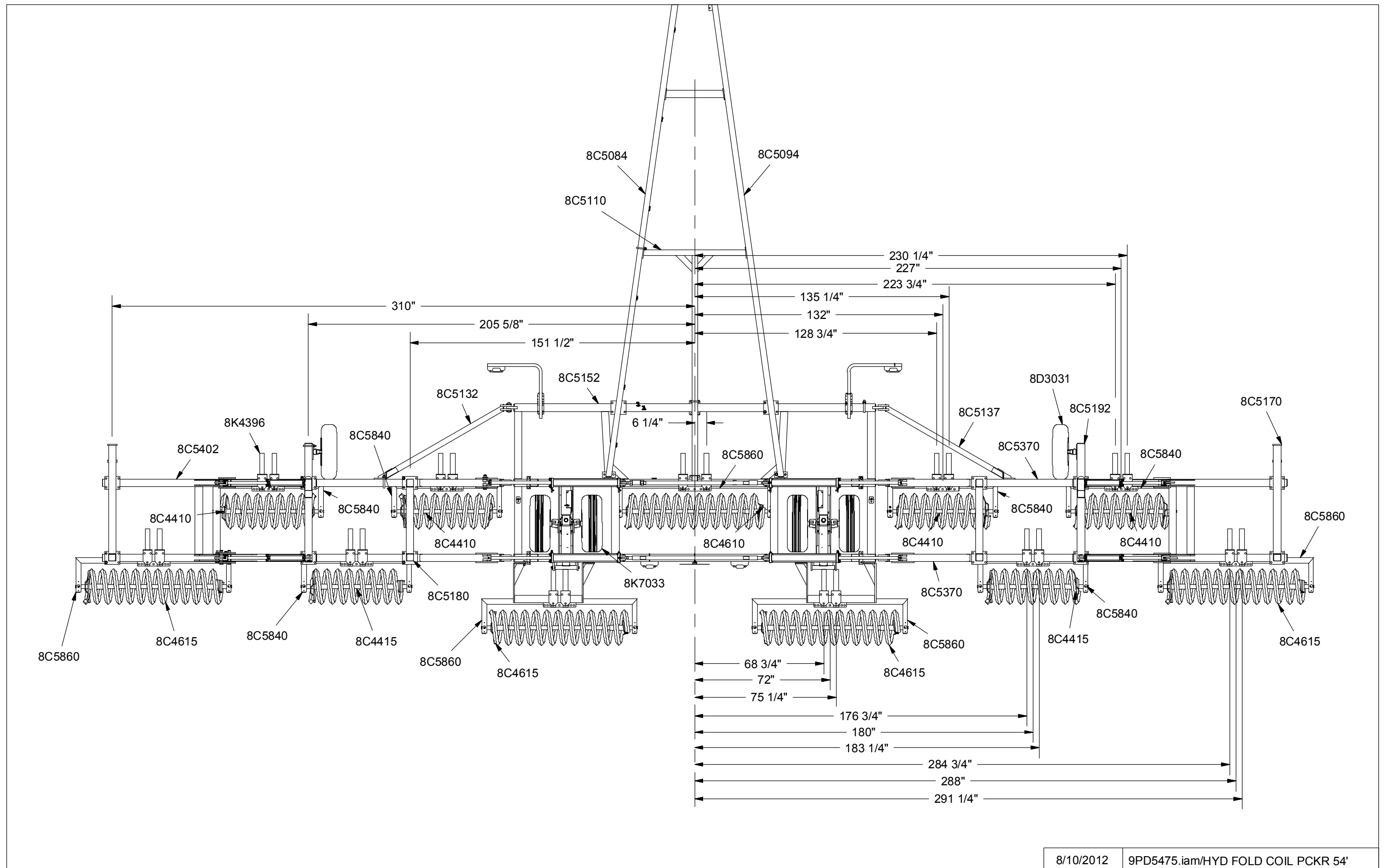
8/10/2012 9PD5075.iam/HYD FOLD COIL PCKR 50'

SECTION 2 - ASSEMBLY



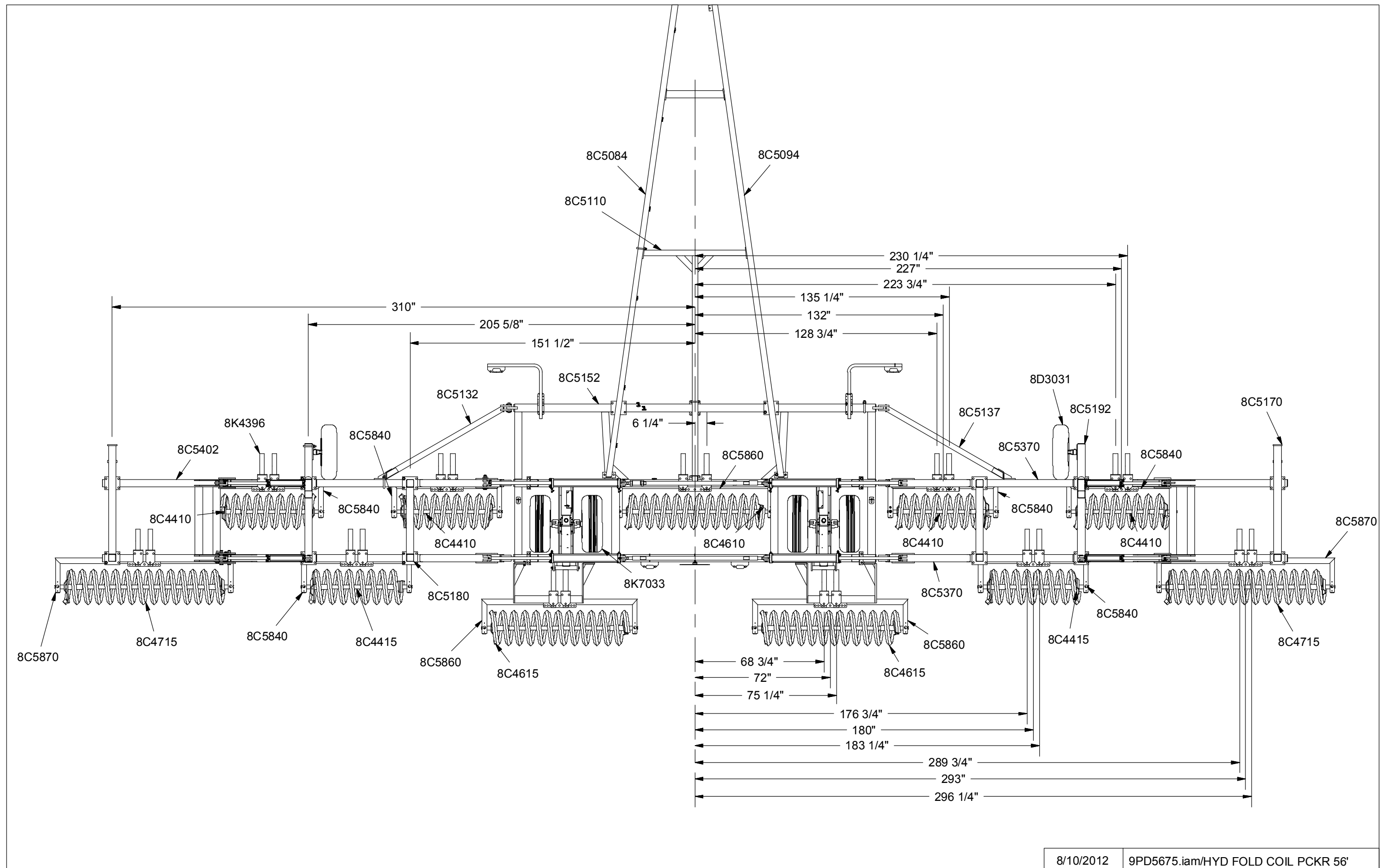
8/10/2012 9PD5275.iam/HYD FOLD COIL PCKR 52'

SECTION 2 - ASSEMBLY



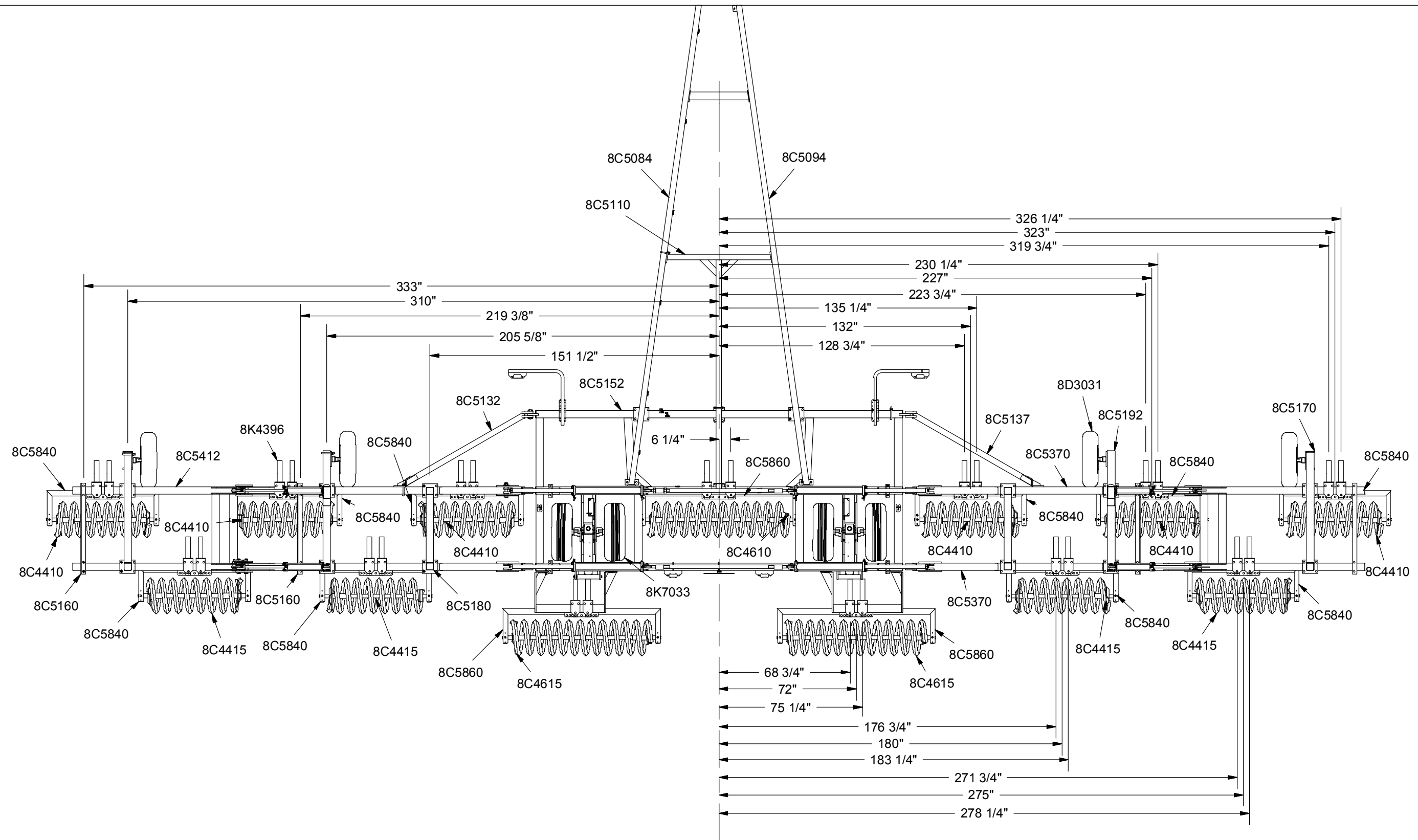
8/10/2012 9PD5475.iam/HYD FOLD COIL PCKR 54'

SECTION 2 - ASSEMBLY



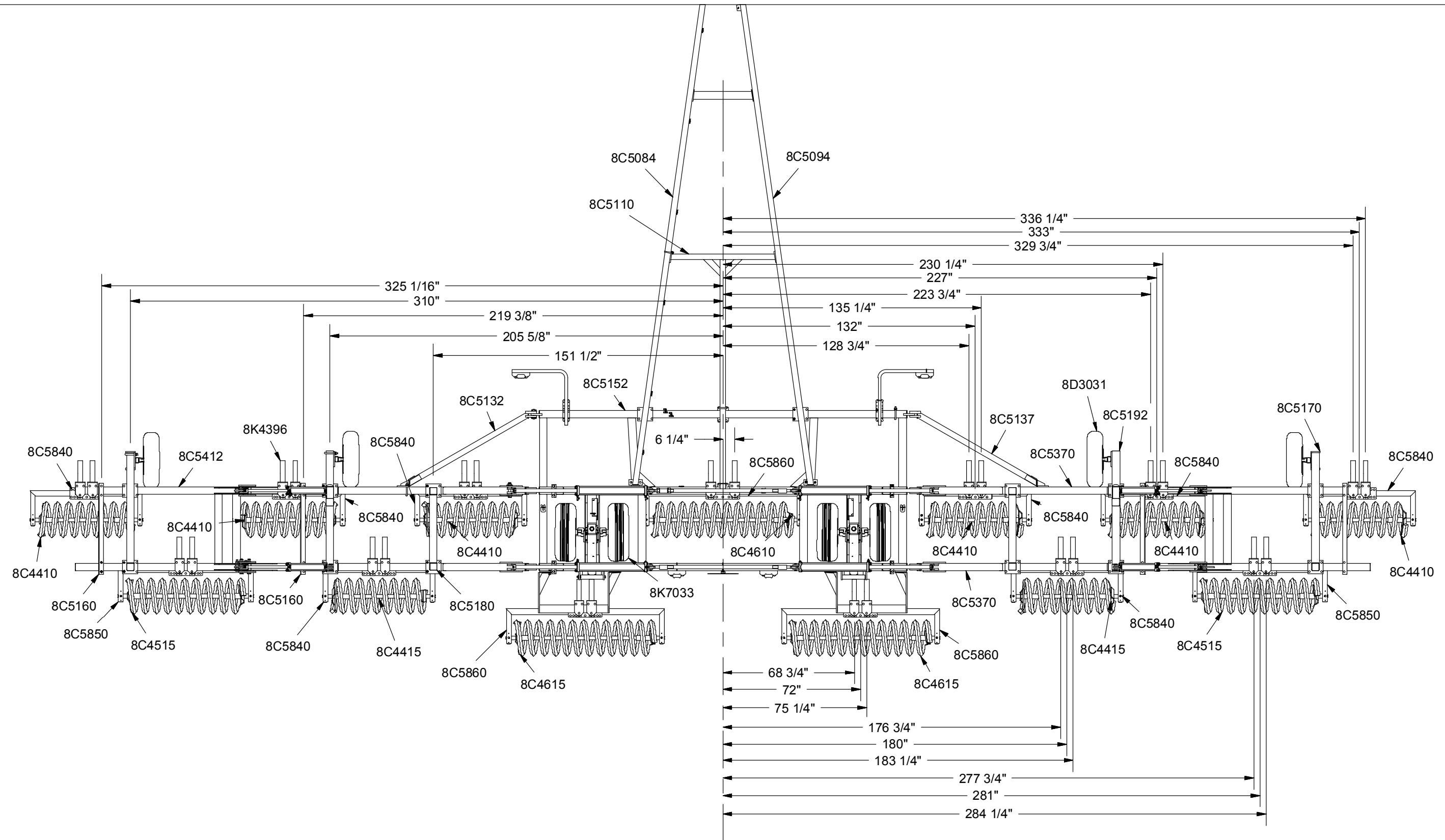
8/10/2012 9PD5675.iam/HYD FOLD COIL PCKR 56'

SECTION 2 - ASSEMBLY



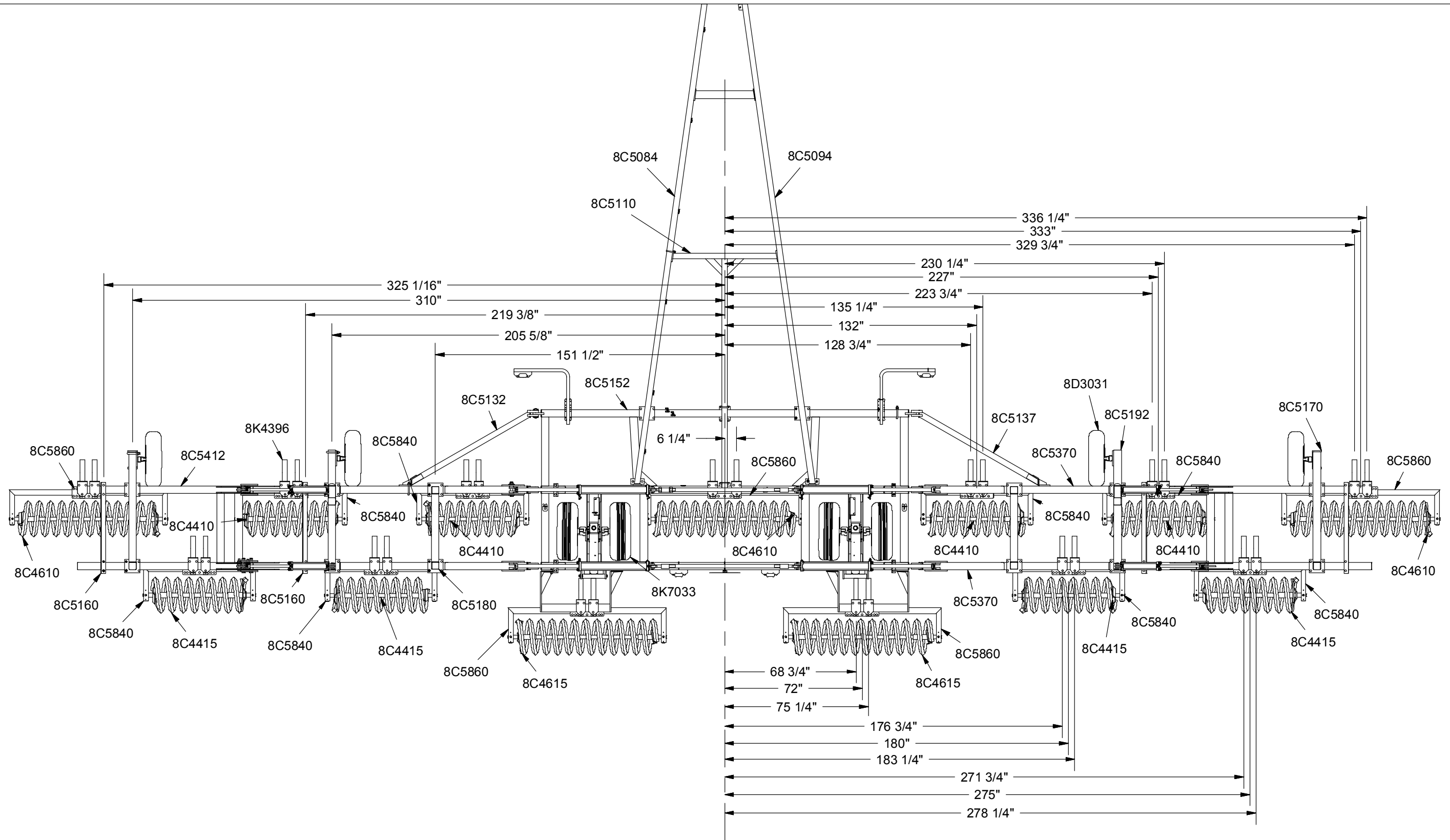
8/10/2012 9PD5875.iam/HYD FOLD COIL PCKR 58'

SECTION 2 - ASSEMBLY



8/9/2012 9PD6075.iam/HYD FOLD COIL PCKR 60'

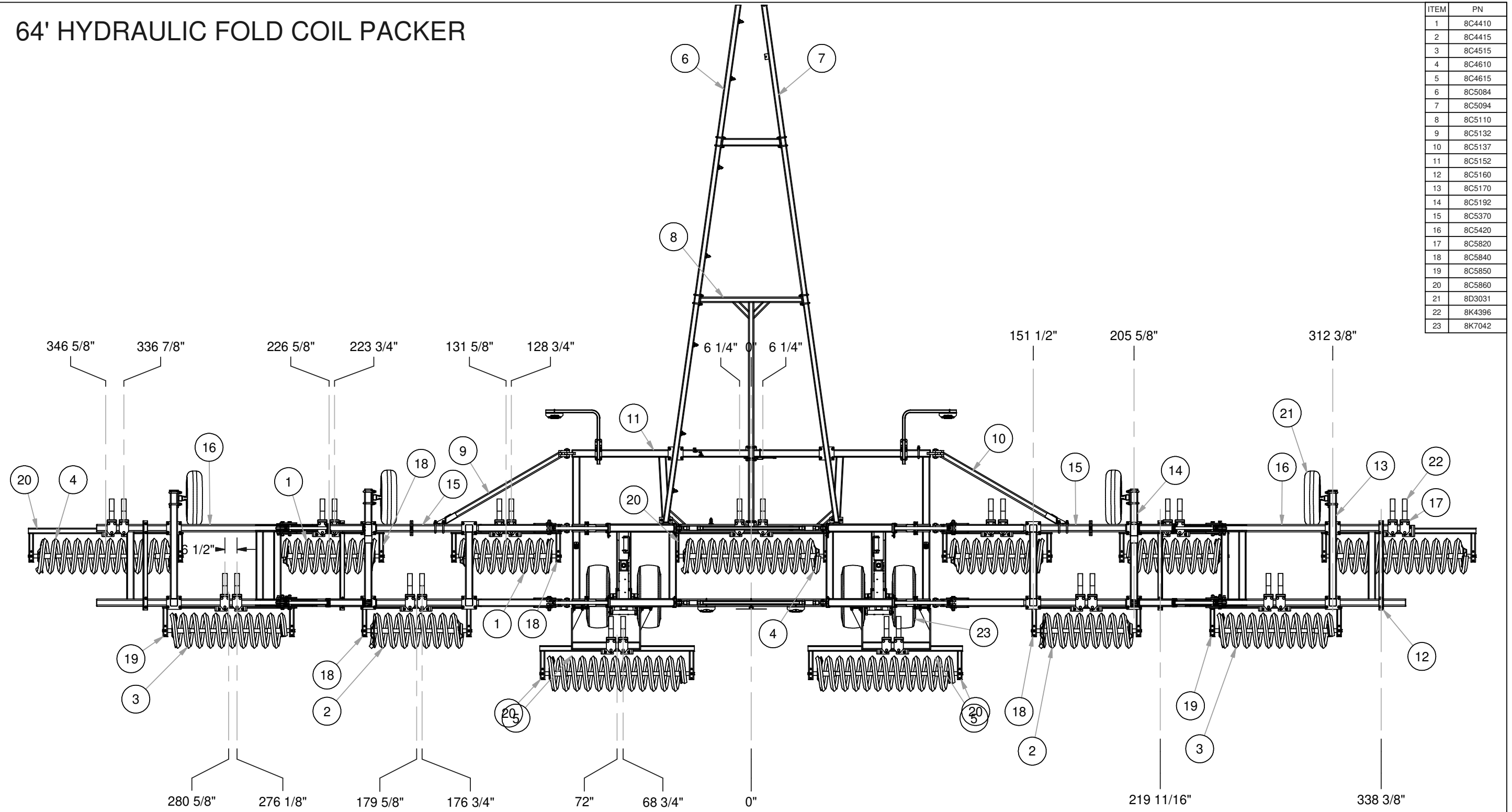
SECTION 2 - ASSEMBLY



8/9/2012 9PD6275.iam/HYD FOLD COIL PCKR 62'

SECTION 2 - ASSEMBLY

64' HYDRAULIC FOLD COIL PACKER

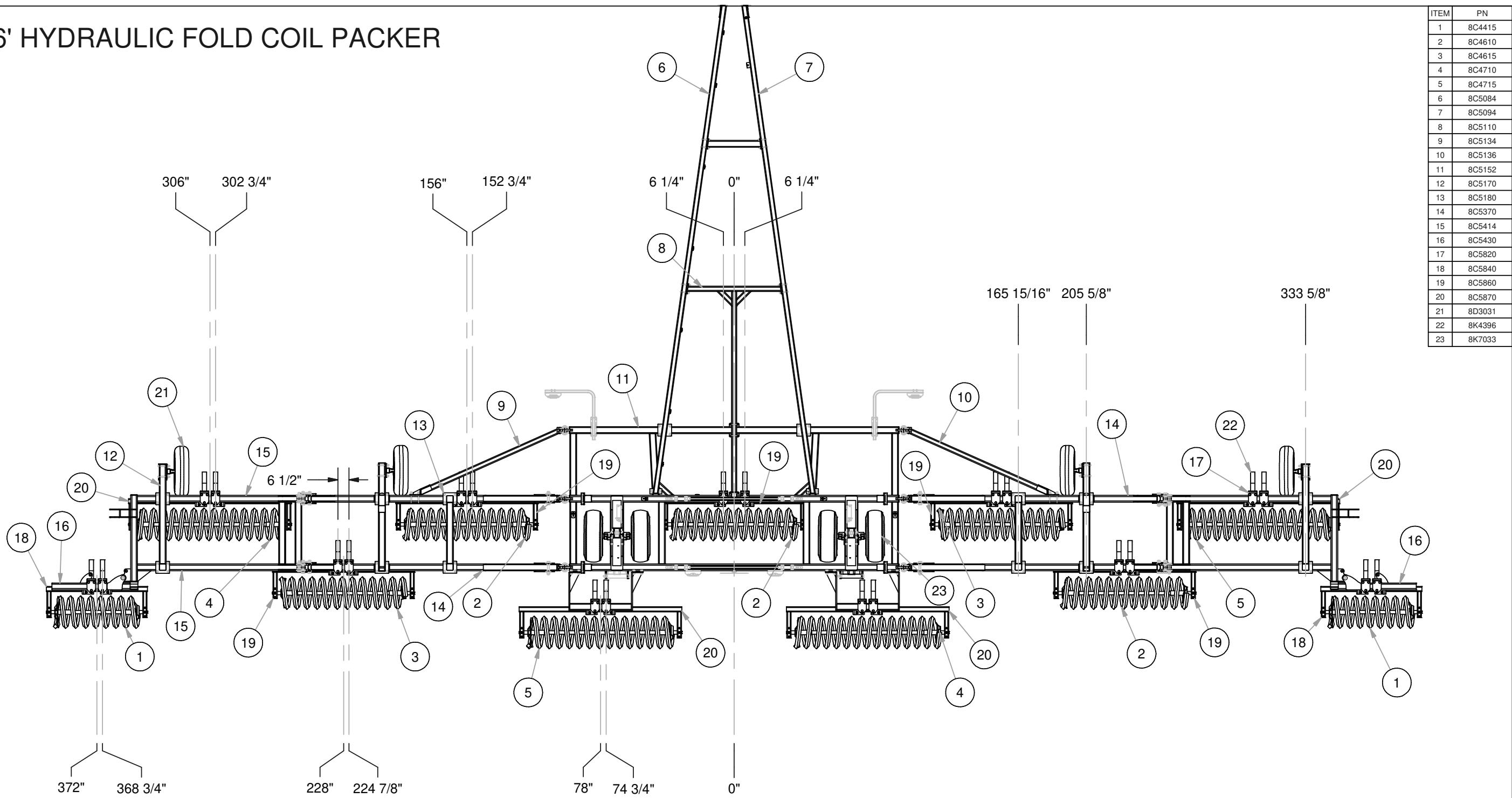


ITEM	PN
1	8C4410
2	8C4415
3	8C4515
4	8C4610
5	8C4615
6	8C5084
7	8C5094
8	8C5110
9	8C5132
10	8C5137
11	8C5152
12	8C5160
13	8C5170
14	8C5192
15	8C5370
16	8C5420
17	8C5820
18	8C5840
19	8C5850
20	8C5860
21	8D3031
22	8K4396
23	8K7042

3/26/2018 9PD6475.iam/64' HYD FOLD PACKER

SECTION 2 - ASSEMBLY

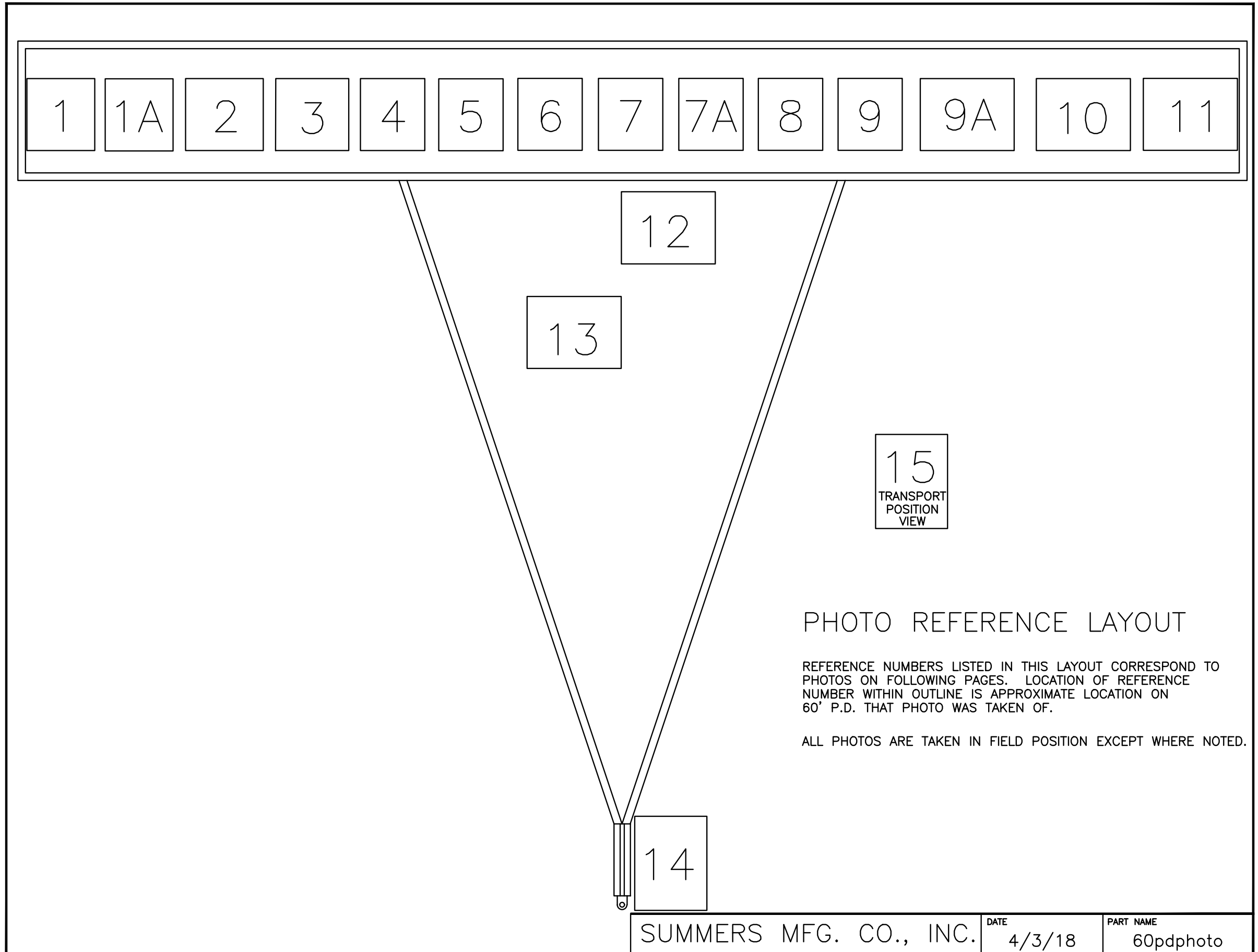
66' HYDRAULIC FOLD COIL PACKER



ITEM	PN
1	8C4415
2	8C4610
3	8C4615
4	8C4710
5	8C4715
6	8C5084
7	8C5094
8	8C5110
9	8C5134
10	8C5136
11	8C5152
12	8C5170
13	8C5180
14	8C5370
15	8C5414
16	8C5430
17	8C5820
18	8C5840
19	8C5860
20	8C5870
21	8D3031
22	8K4396
23	8K7033

3/26/2018 9PD6675.iam/66' HYD COIL PACKER

SECTION 2 - ASSEMBLY



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

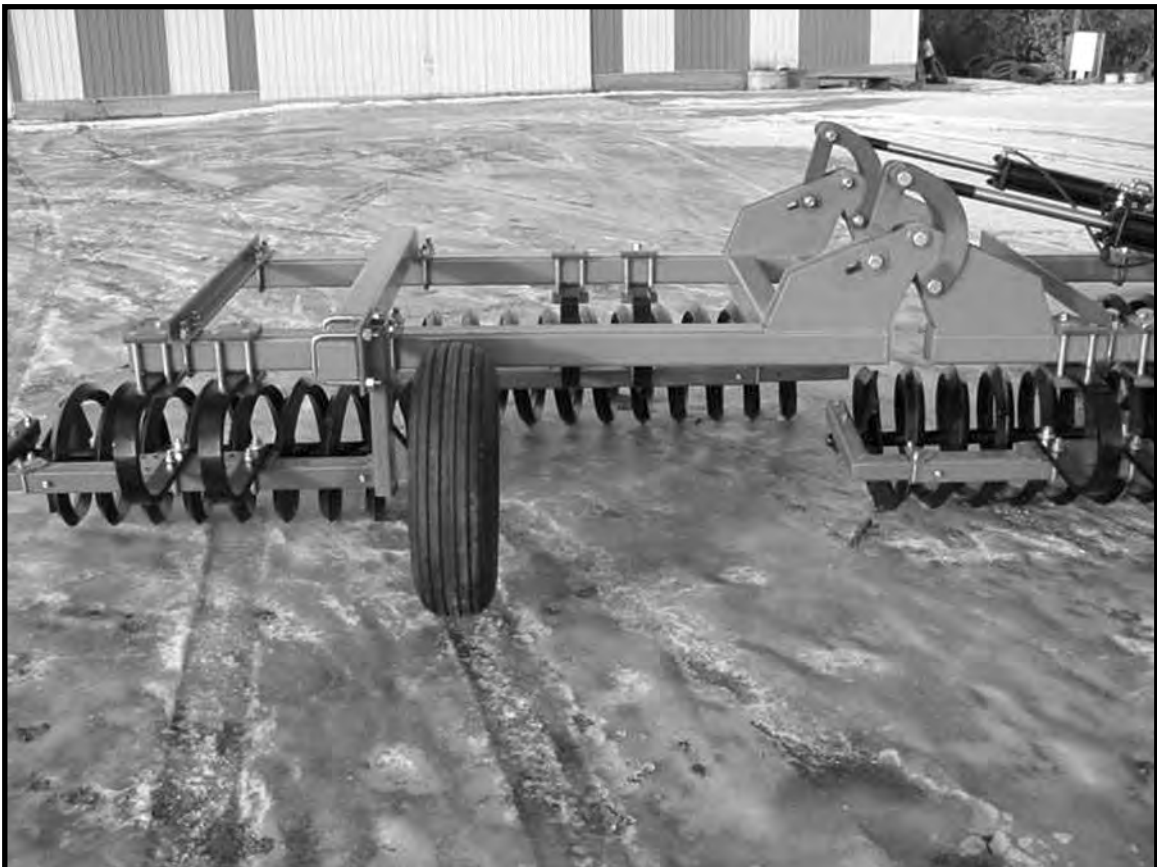
SECTION 2 - ASSEMBLY

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

1



1A



SECTION 2 - ASSEMBLY



2

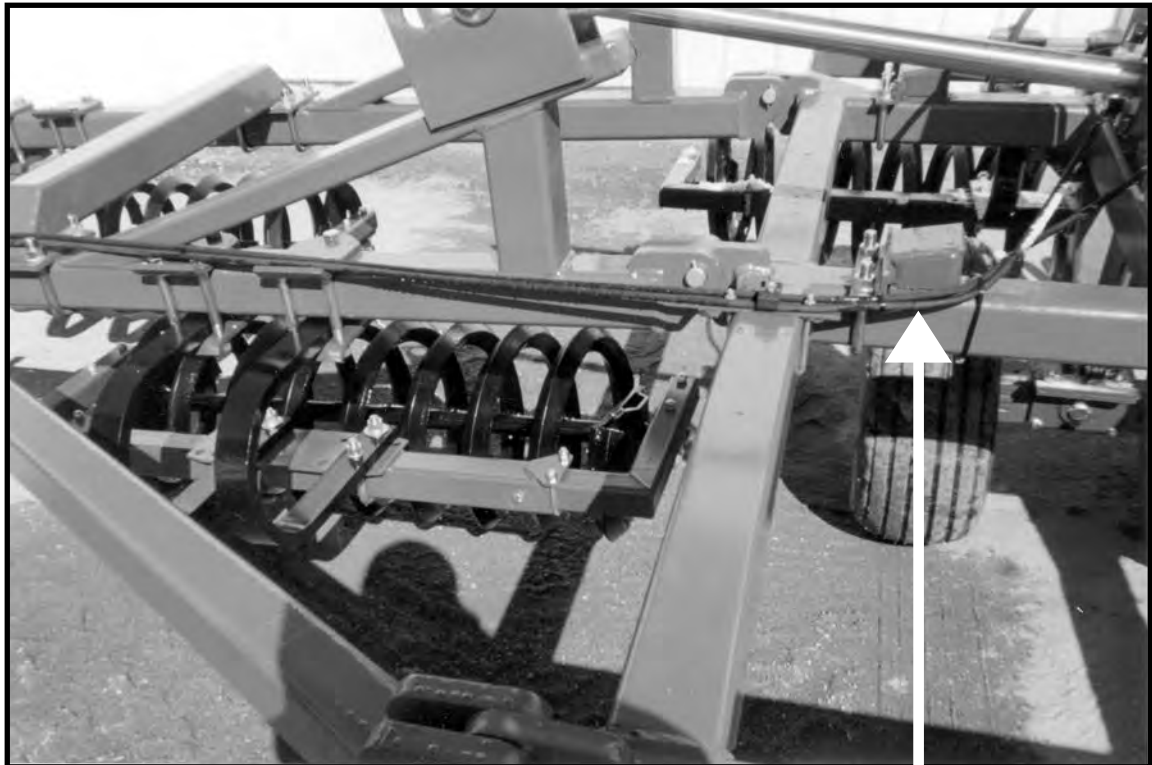


3

SECTION 2 - ASSEMBLY



4

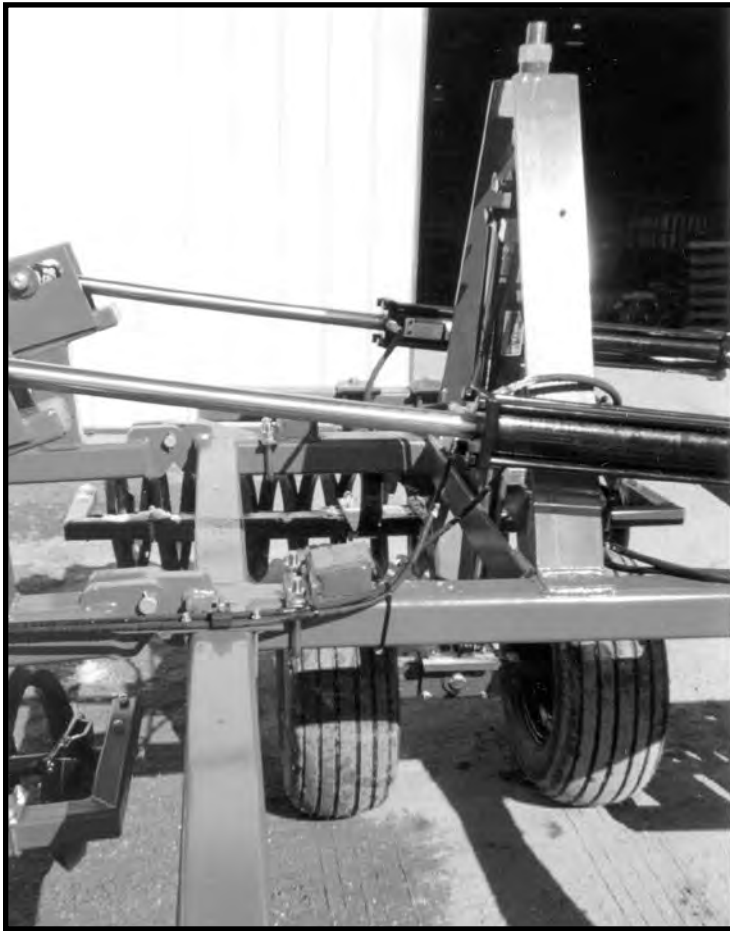


5

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

SECTION 2 - ASSEMBLY

6



7

7A



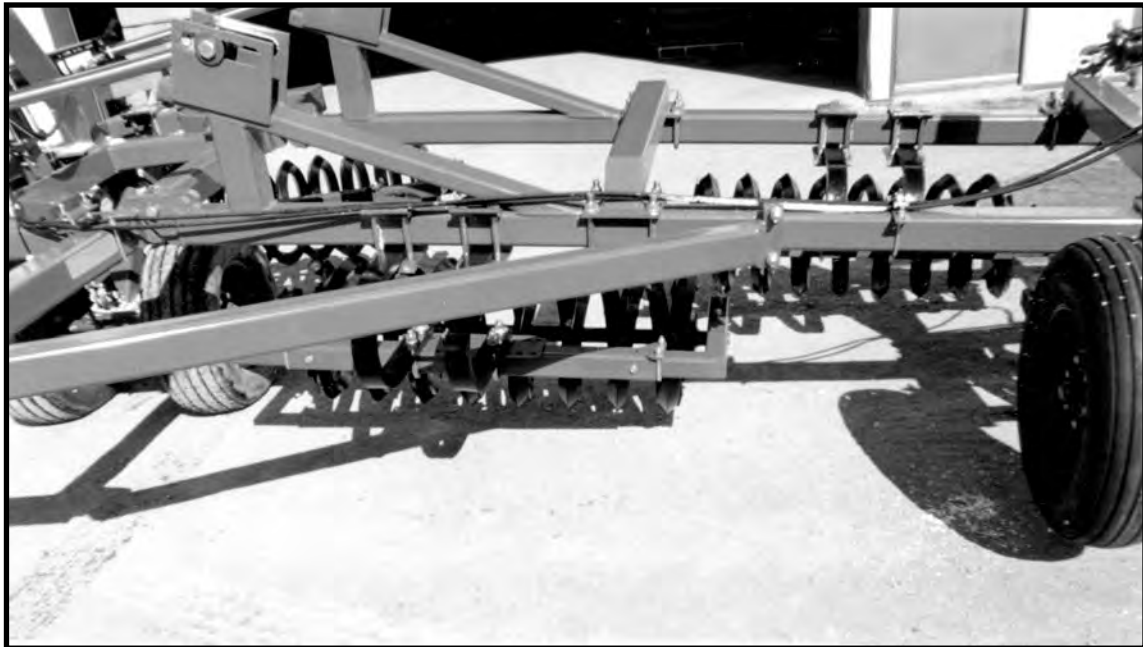
SECTION 2 - ASSEMBLY



IMPORTANT
Do Not route hydraulic hoses above wing stop.

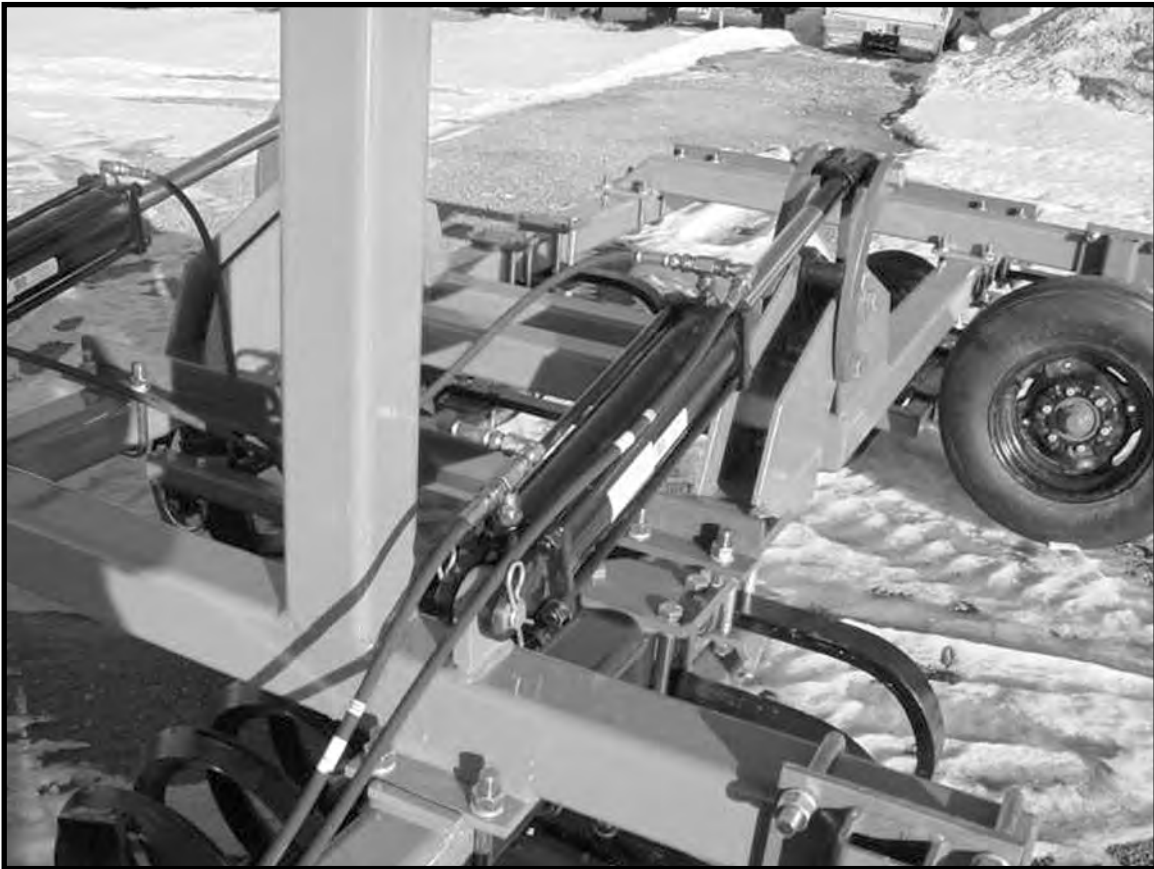
8

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



9

9A

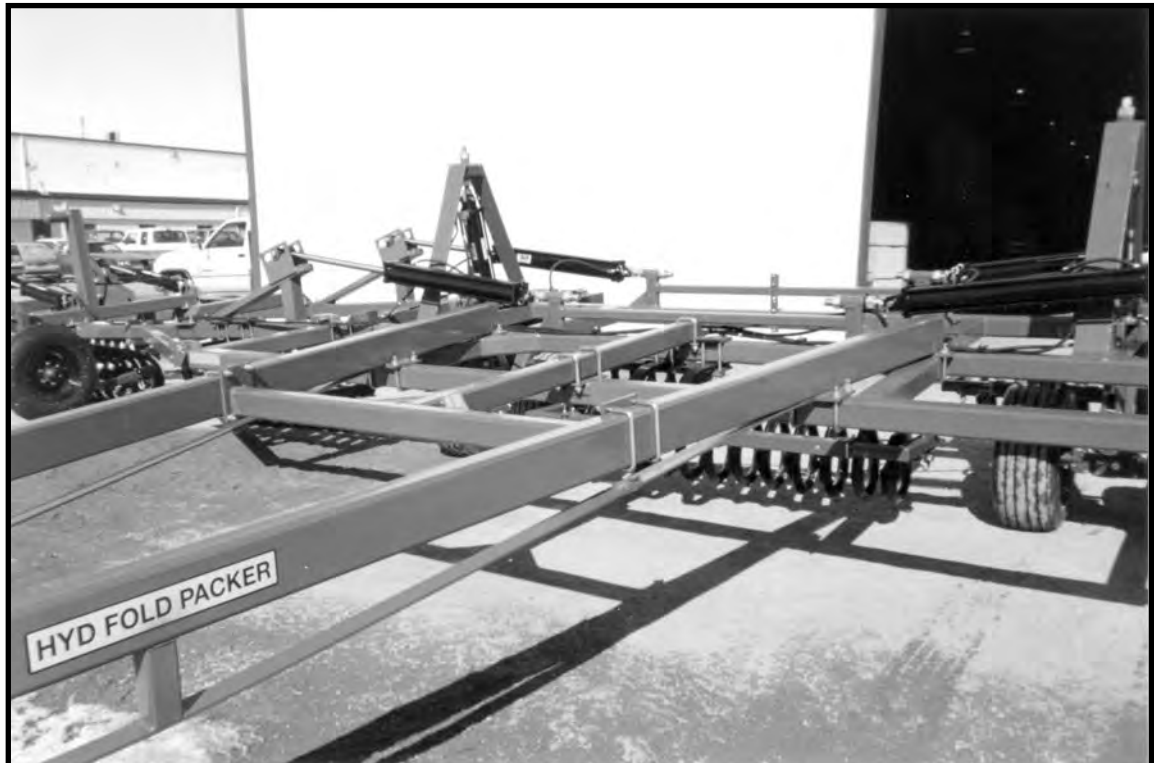


10



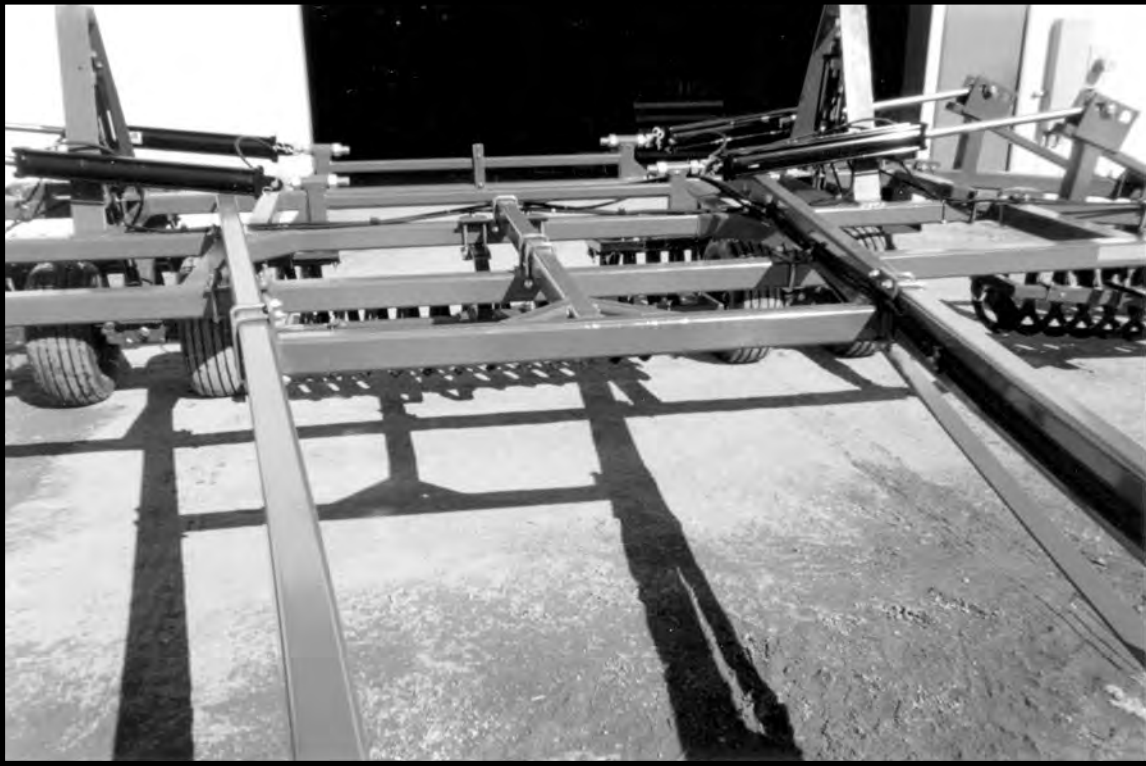


11



12

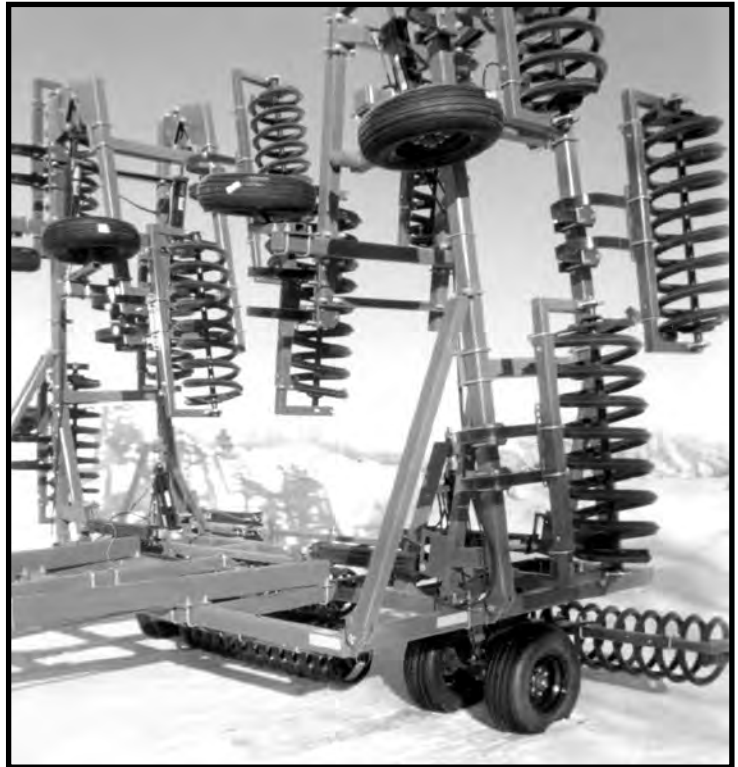
13



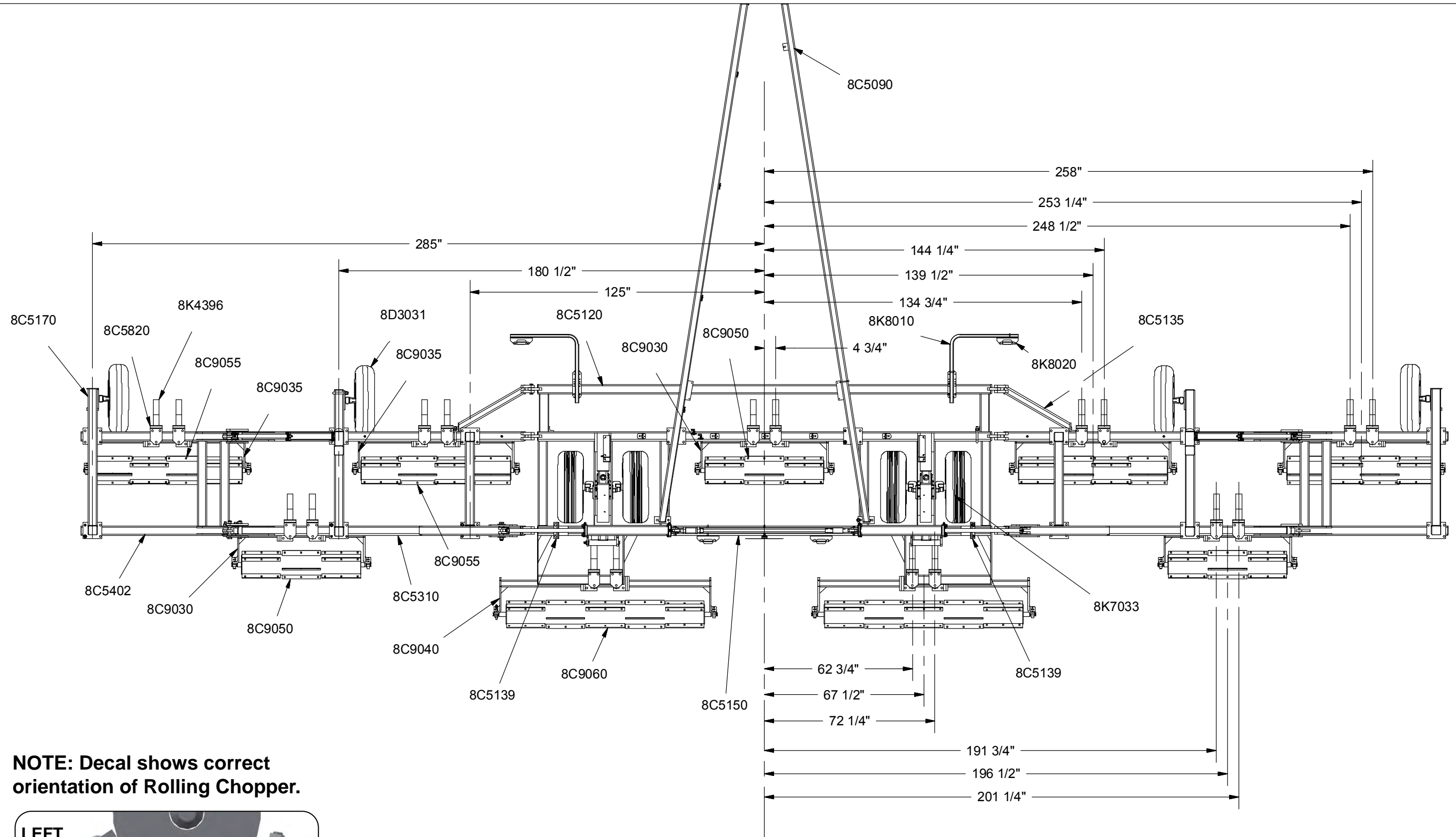
14



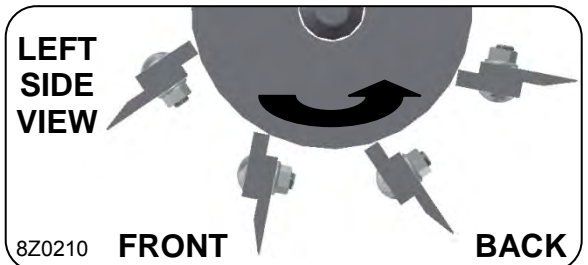
15



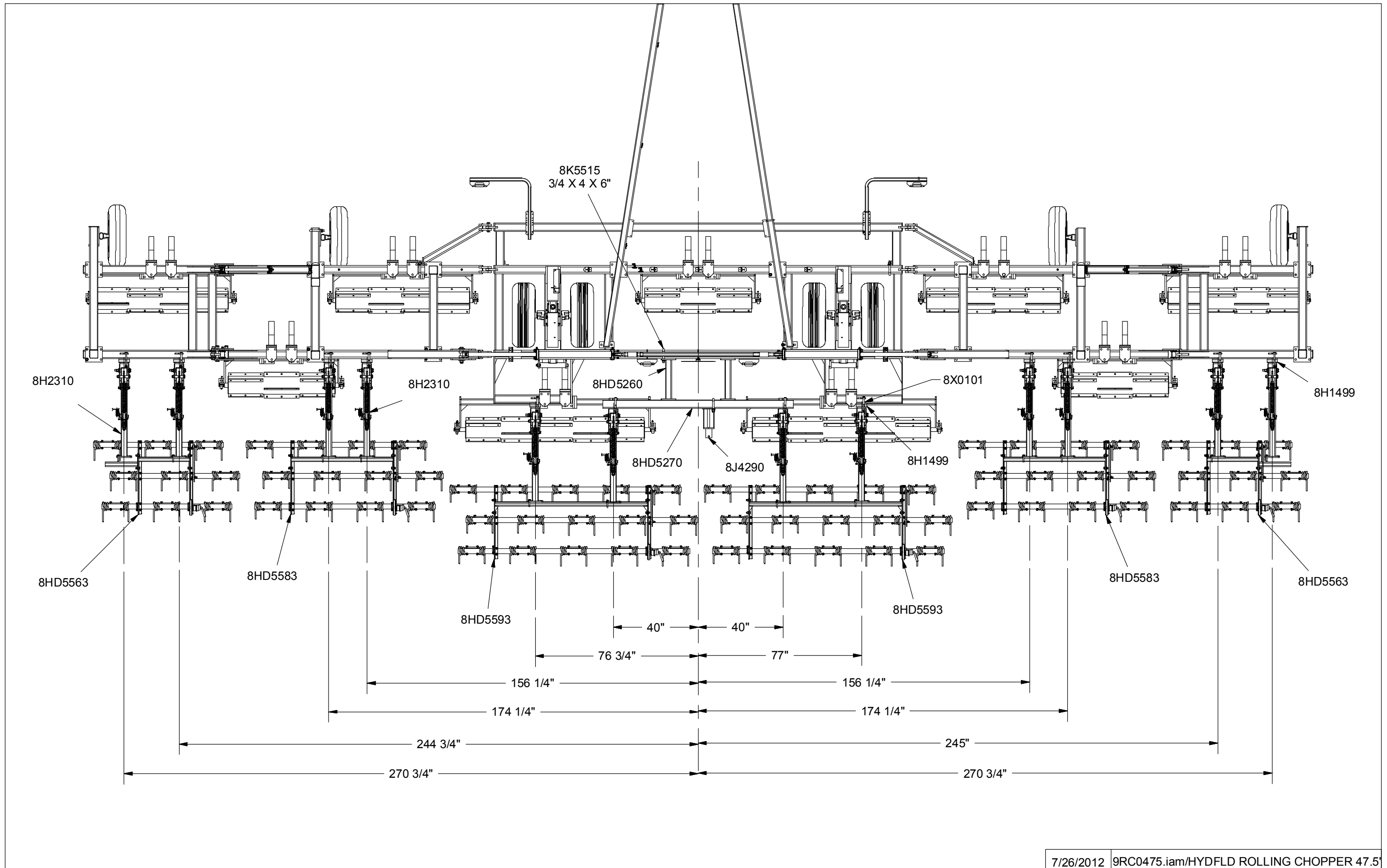
SECTION 2 - ASSEMBLY



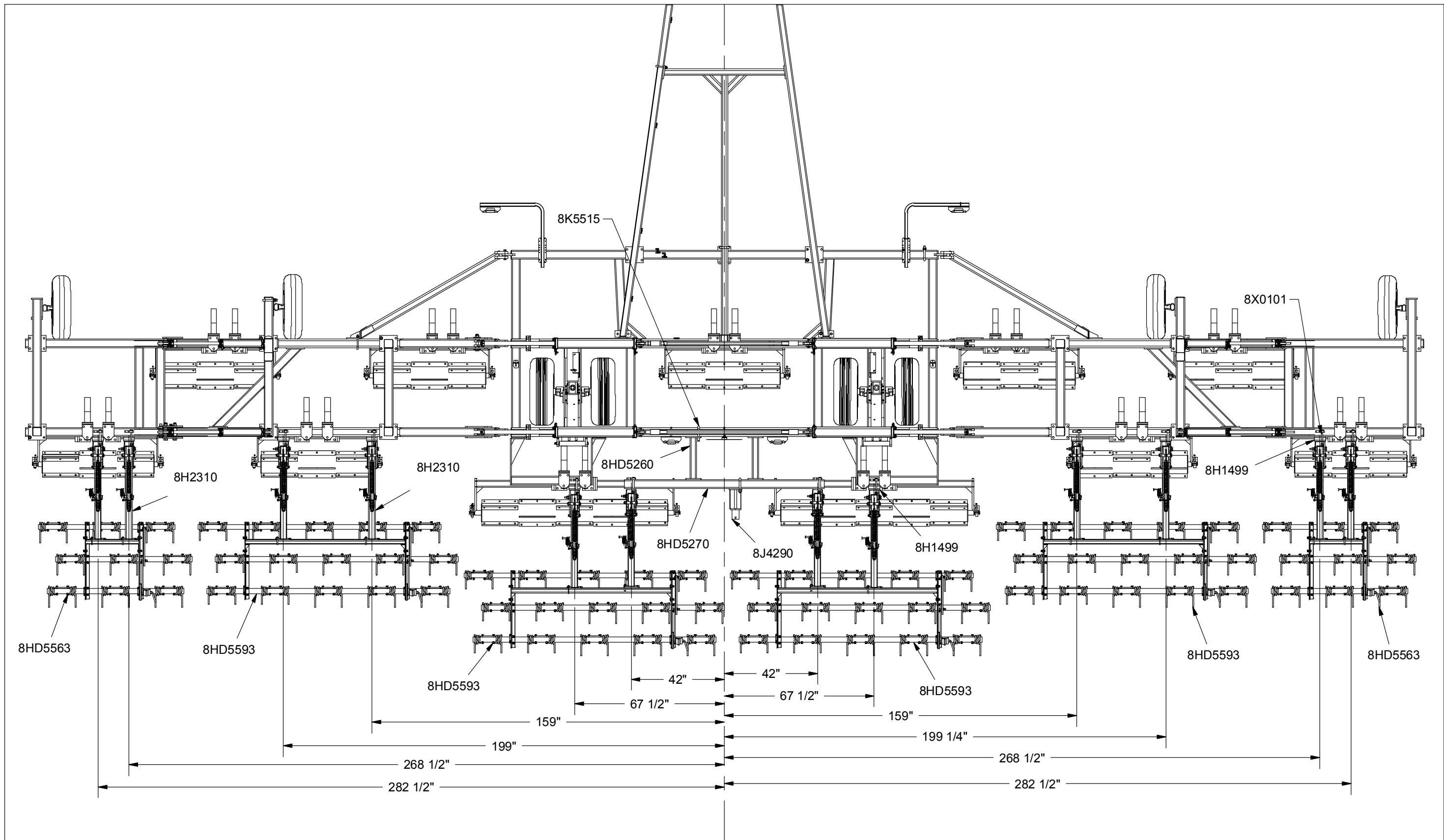
NOTE: Decal shows correct orientation of Rolling Chopper.



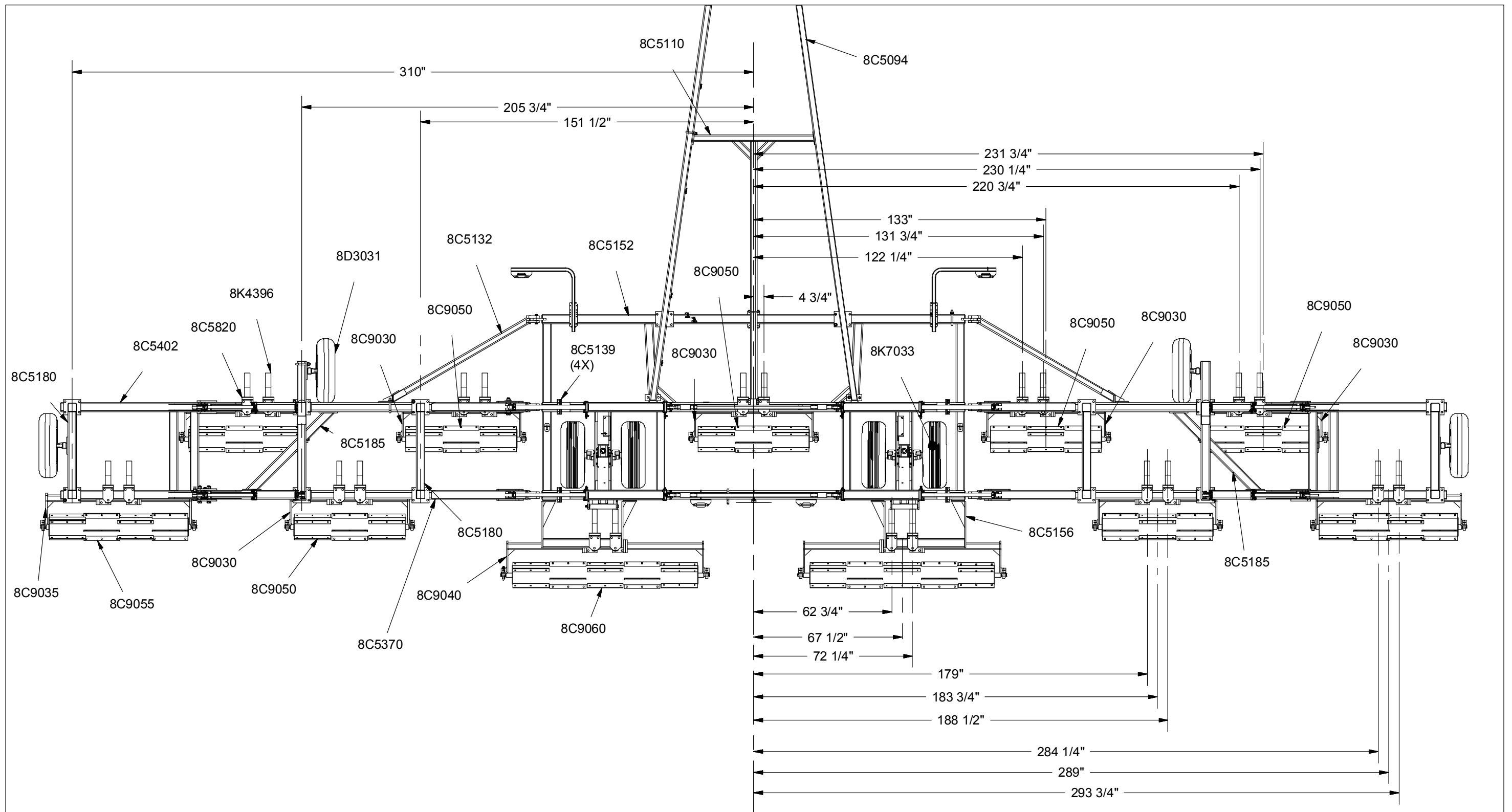
SECTION 2 - ASSEMBLY



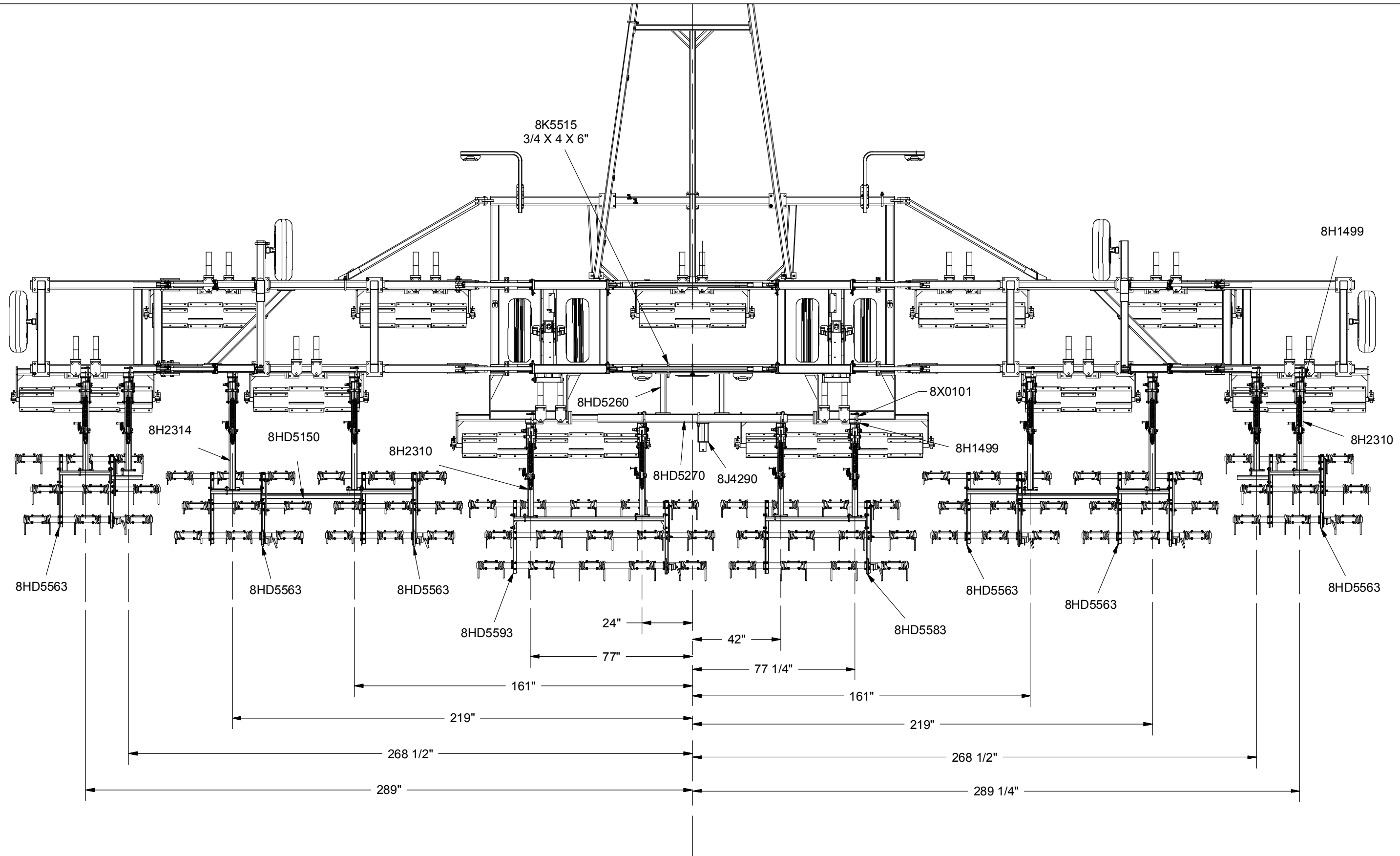
SECTION 2 - ASSEMBLY



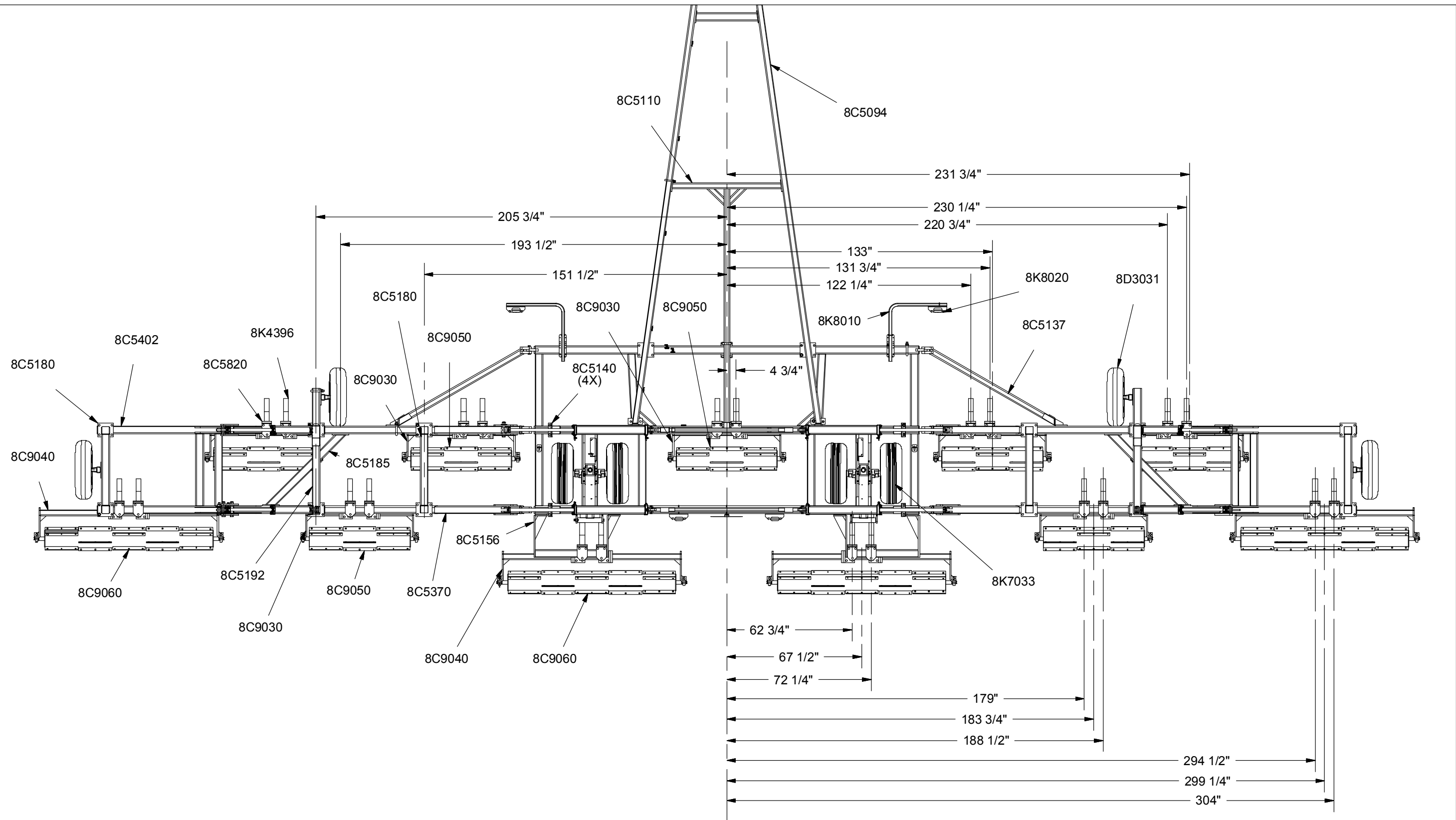
SECTION 2 - ASSEMBLY



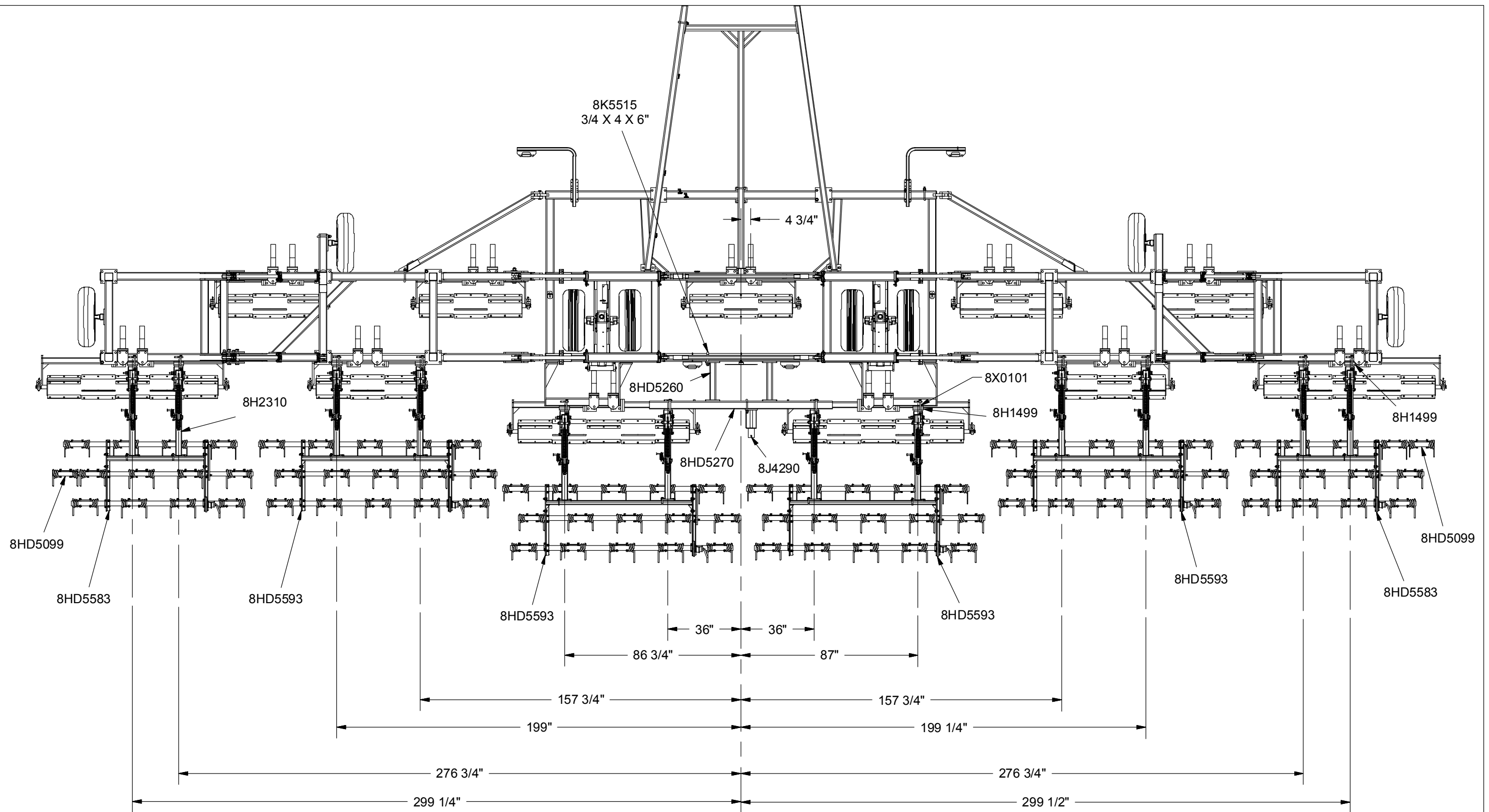
SECTION 2 - ASSEMBLY



SECTION 2 - ASSEMBLY



SECTION 2 - ASSEMBLY



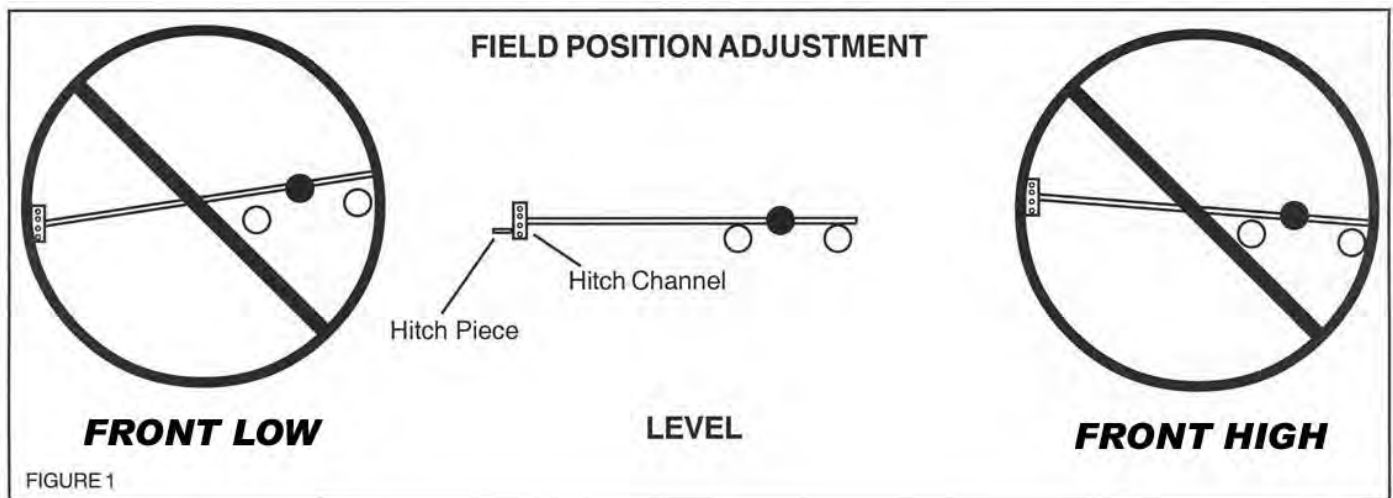
SECTION 3 - OPERATION and MAINTENANCE

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 into 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

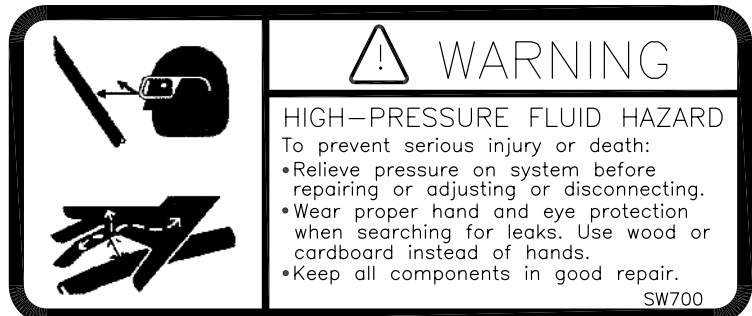
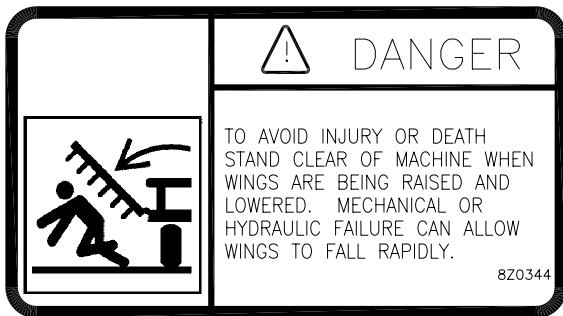
1. Select a level area to park machine. Block wheels to prevent machine from rolling.
2. Rotate jack into standing position and extend jack. Disconnect hydraulic hoses and wiring connector. Disconnect hitch and safety chain.

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

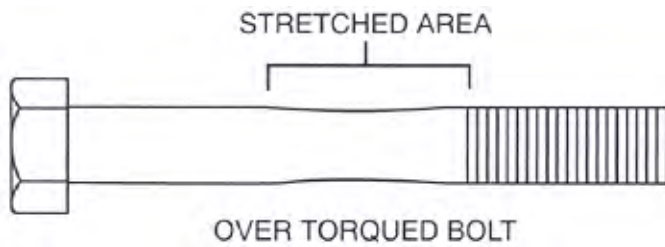
PROPER BOLT USE

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

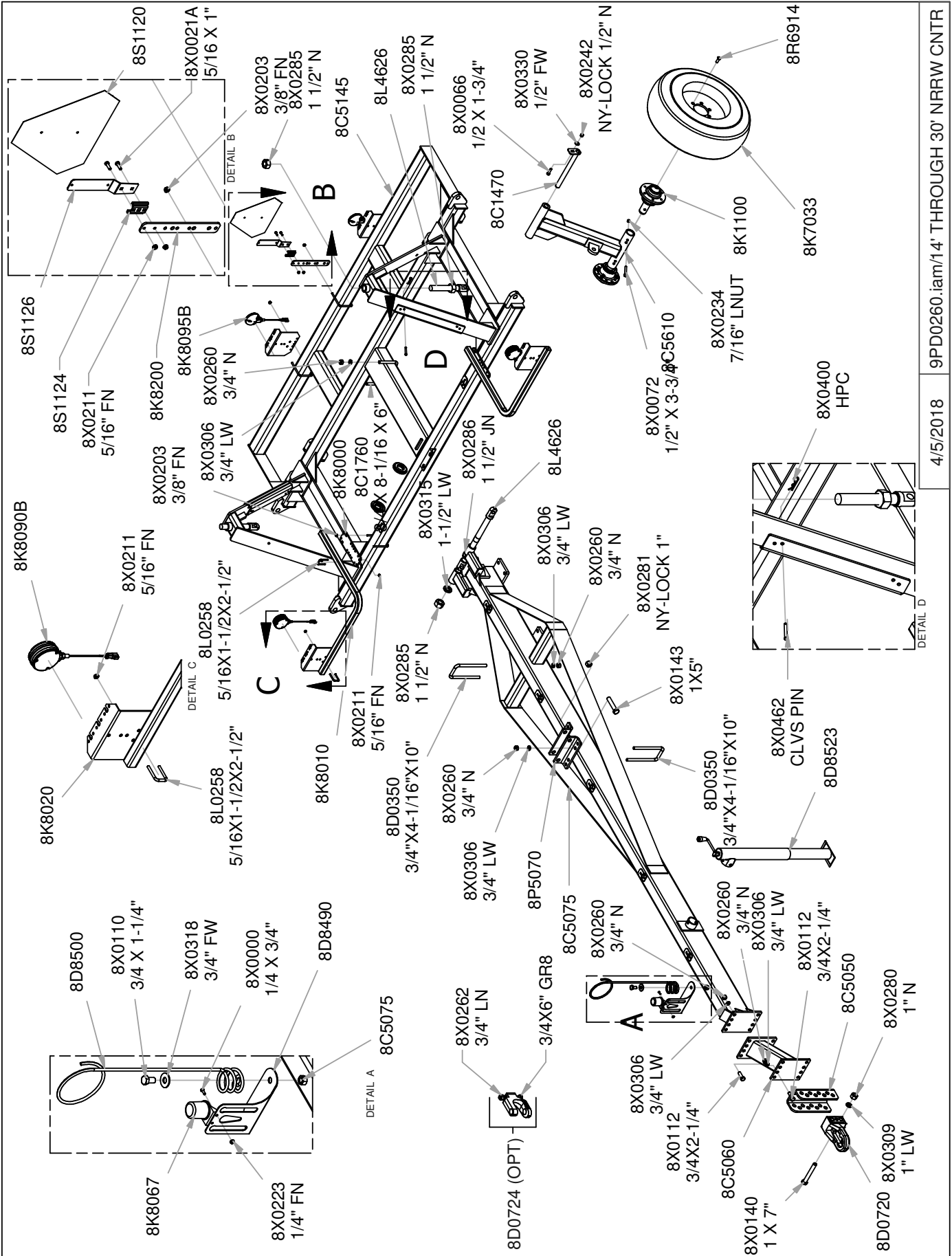


SECTION 3 - OPERATION and MAINTENANCE

PARTS SECTION

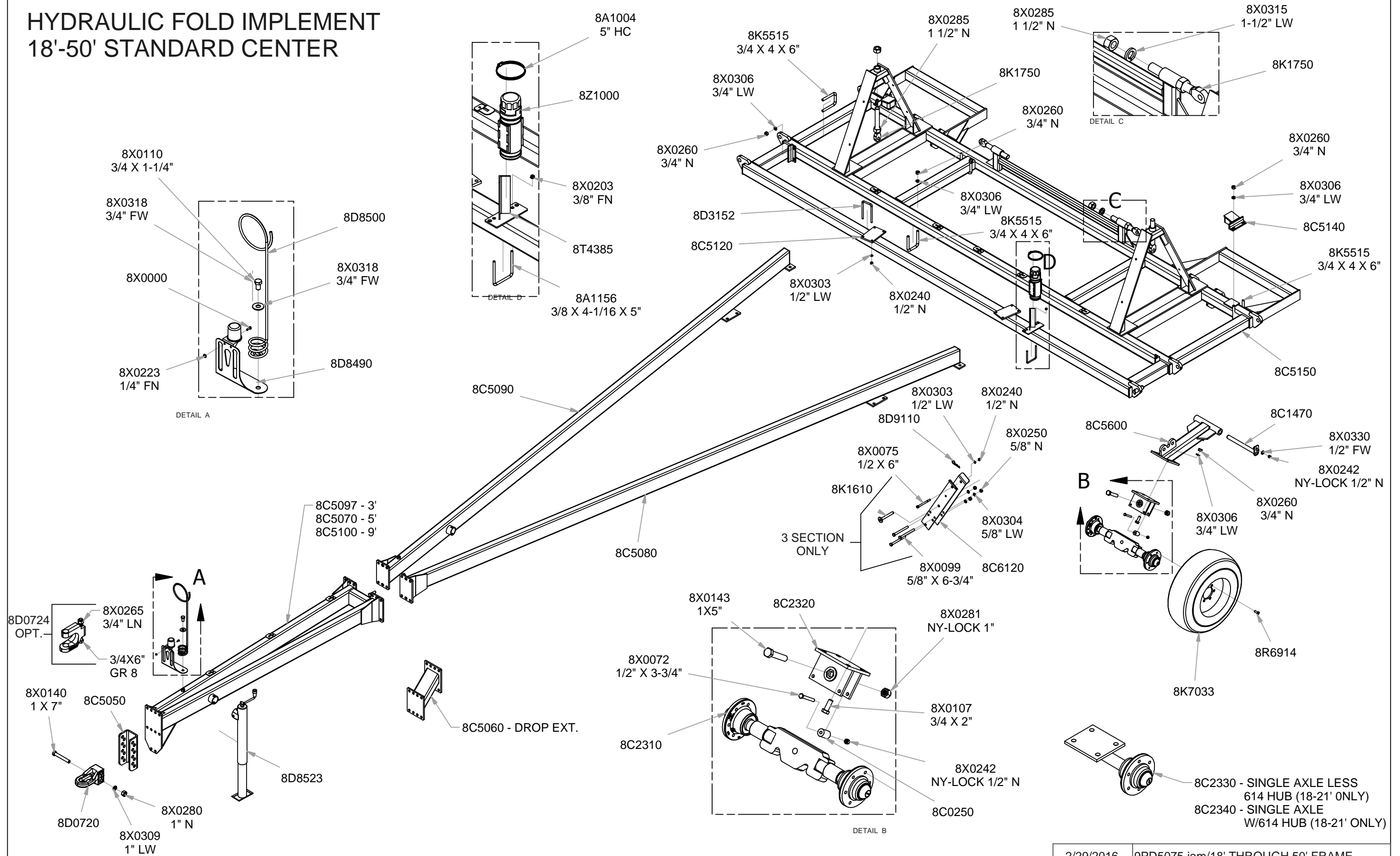
**HYDRAULIC FOLD COIL PACKER
&
HYDRAULIC FOLD ROLLING CHOPPER**

SECTION 4 - PARTS



SECTION 4 - PARTS

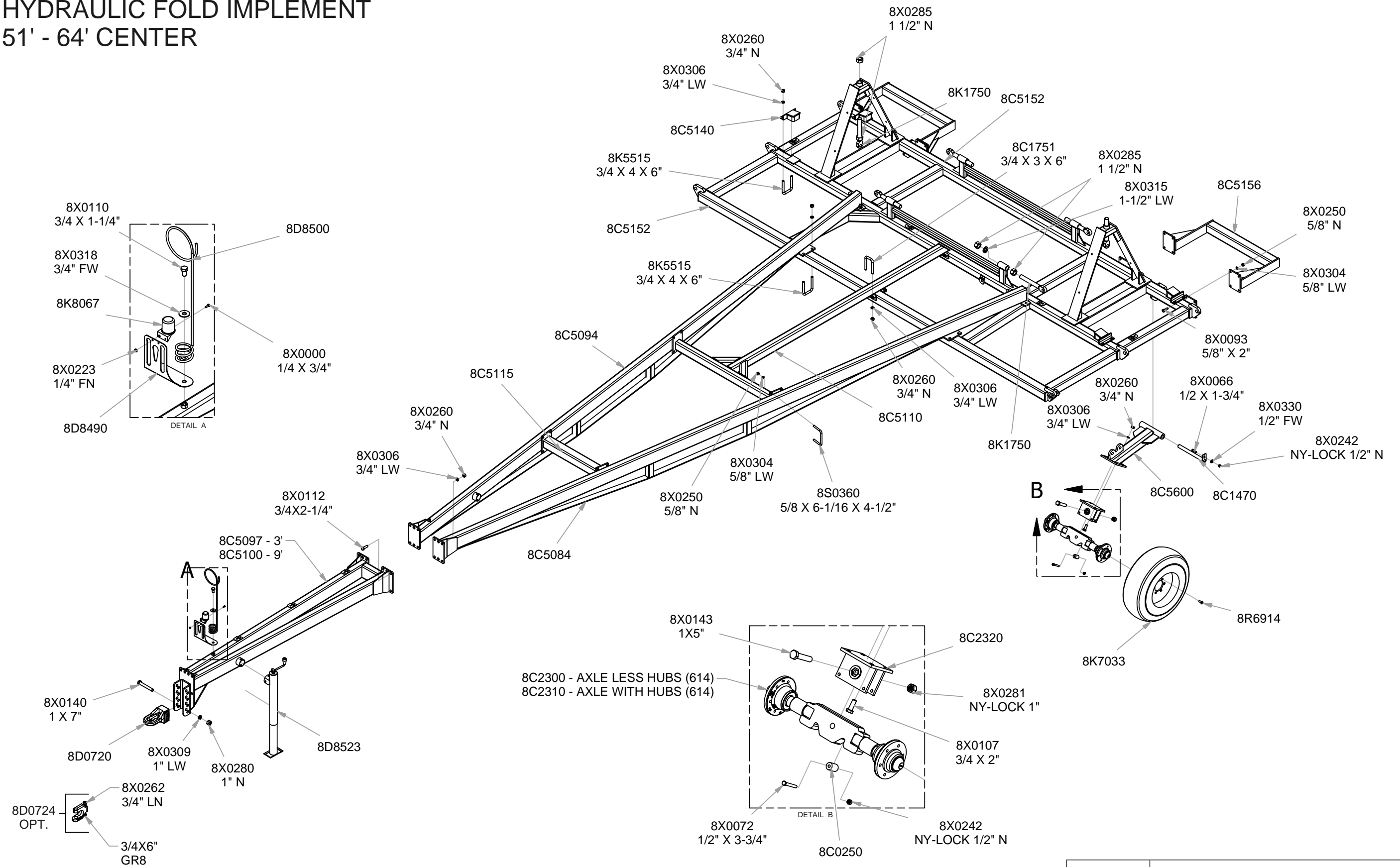
HYDRAULIC FOLD IMPLEMENT
18'-50' STANDARD CENTER



2/29/2016 9PD5075.iam/18' THROUGH 50' FRAME

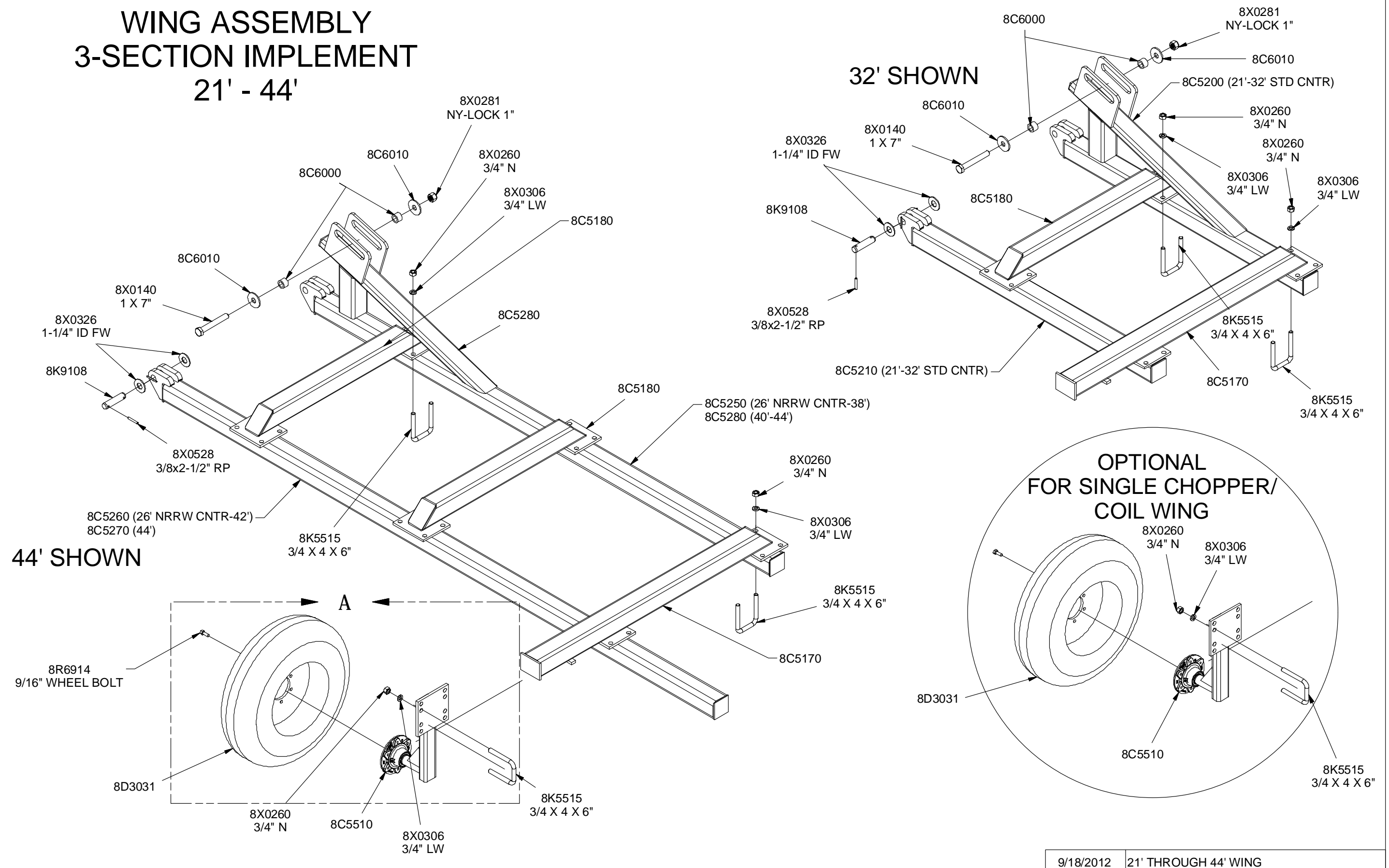
SECTION 4 - PARTS

HYDRAULIC FOLD IMPLEMENT
51' - 64' CENTER



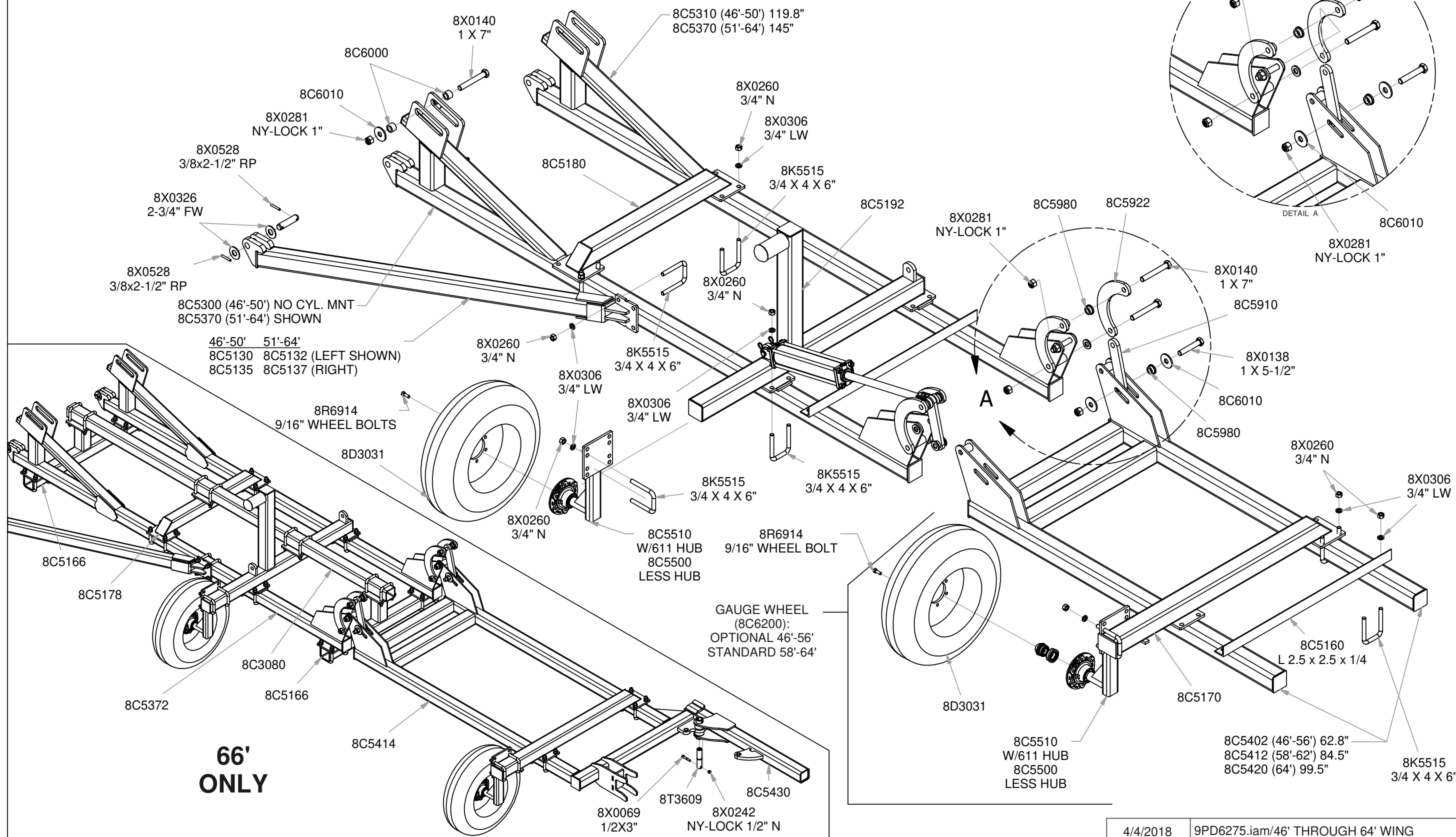
12/13/2016 9PD6275.iam/51' THROUGH 62' FRAME

WING ASSEMBLY 3-SECTION IMPLEMENT 21' - 44'



9/18/2012 21' THROUGH 44' WING

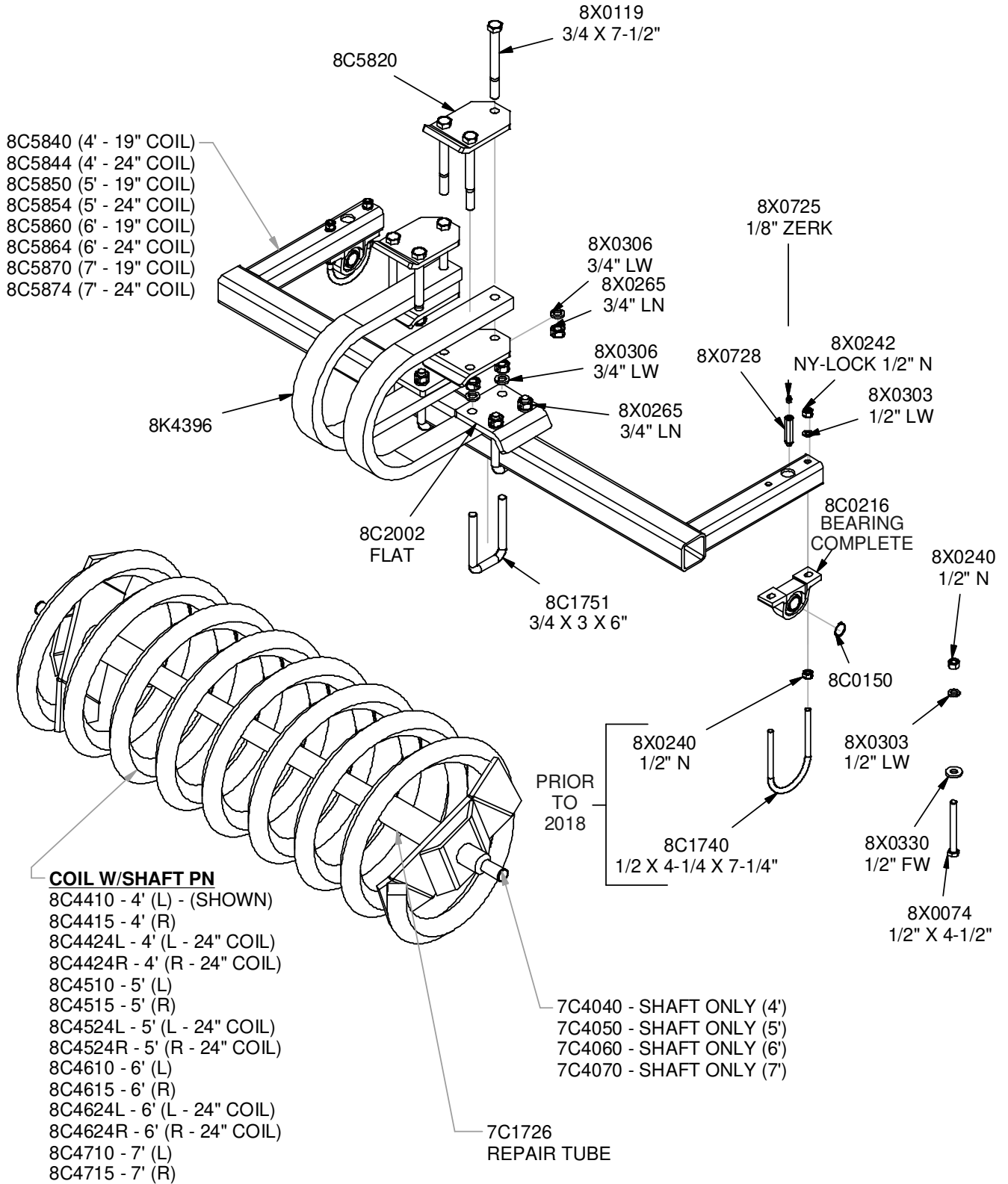
WING ASSEMBLY 5-SECTION IMPLEMENT 46' - 66' (LEFT HAND 62' SHOWN)



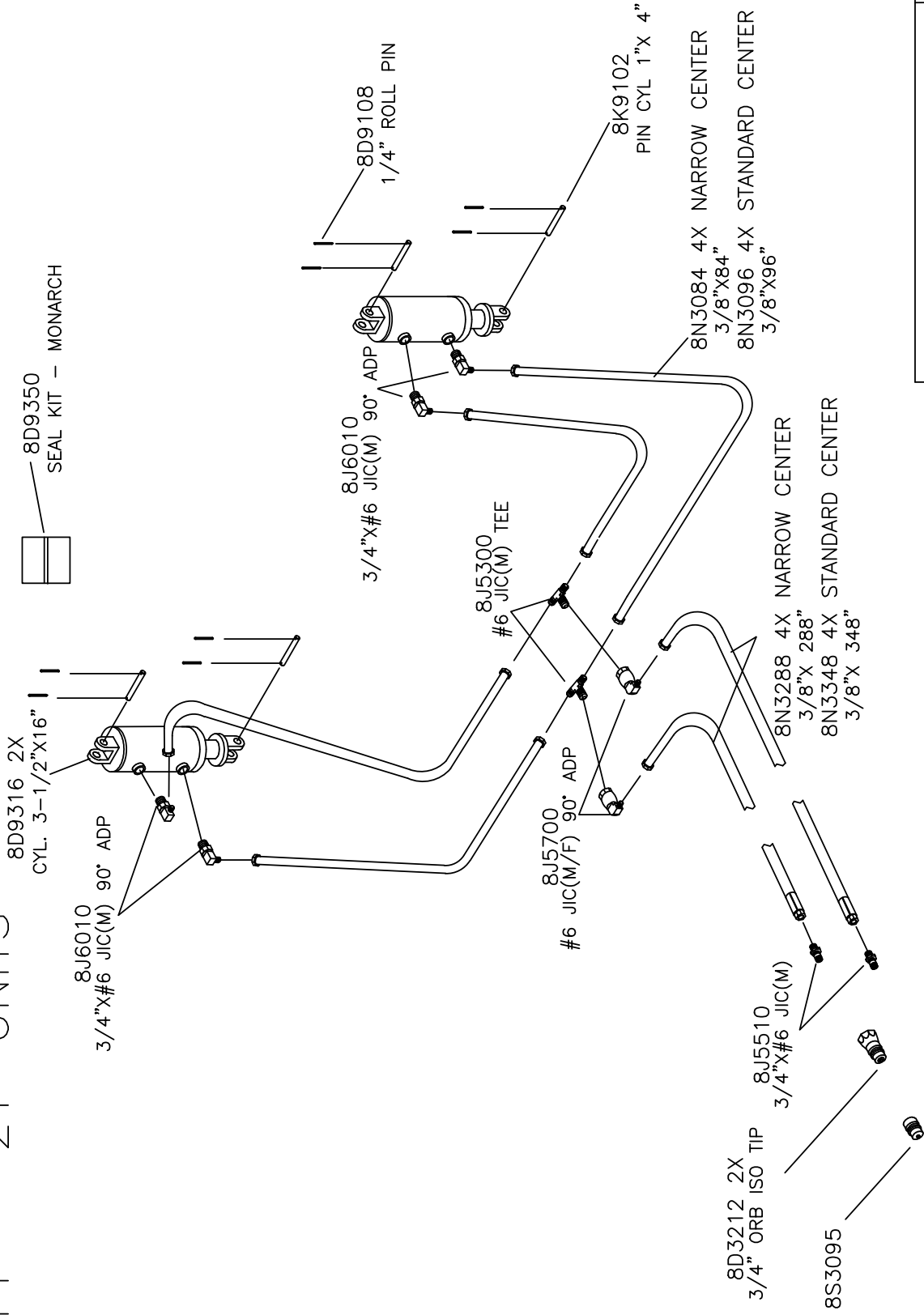
4/4/2018 9PD6275.iam/46' THROUGH 64' WING

SECTION 4 - PARTS

PACKER COIL MOUNTING ASSEMBLY

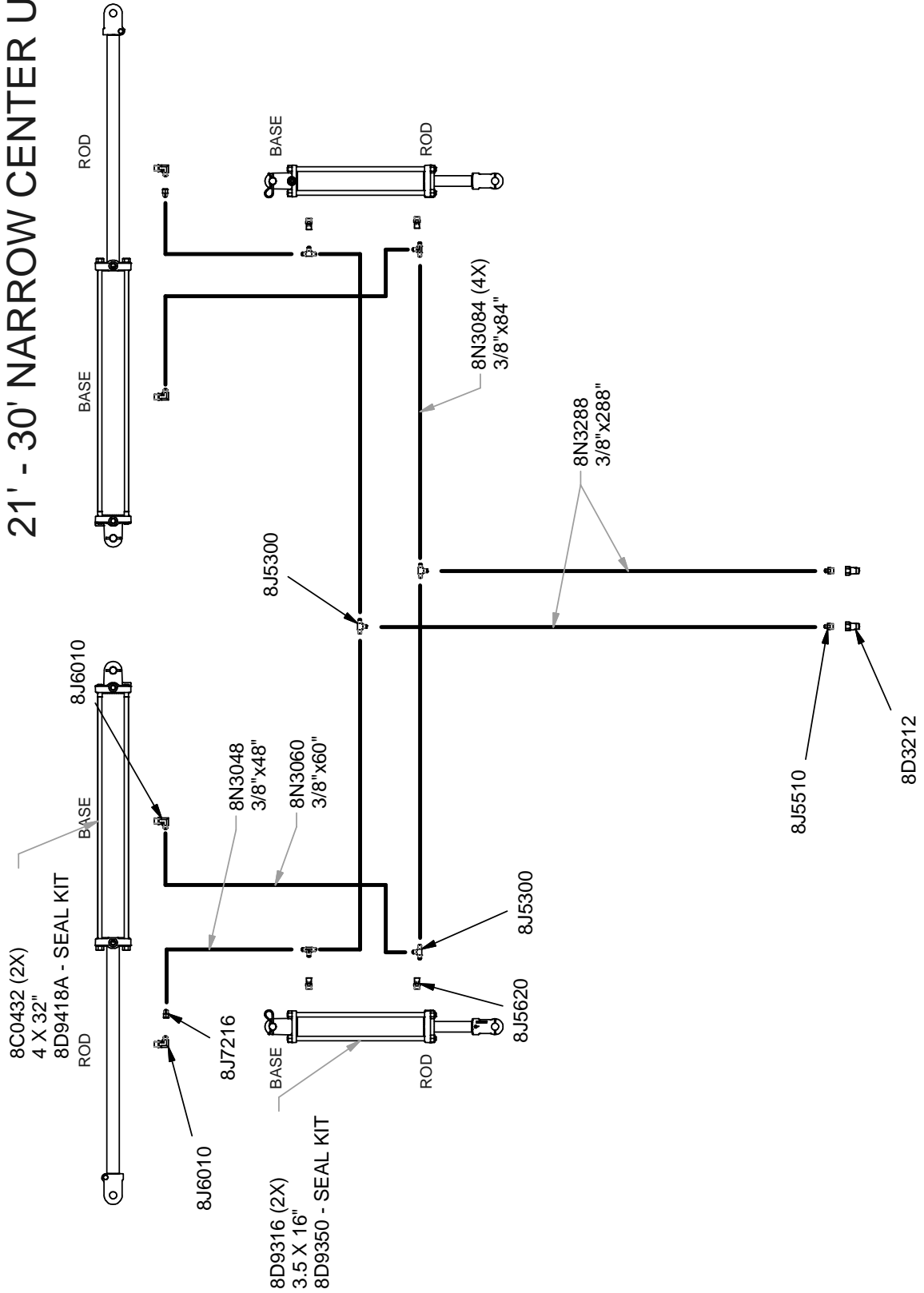


HYDRAULIC LIFT IMPLEMENT
 HYDRAULIC ASSEMBLY
 14' - 21' UNITS



MANUALS/HFCP/HYD18_21JIC 2/5/10

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

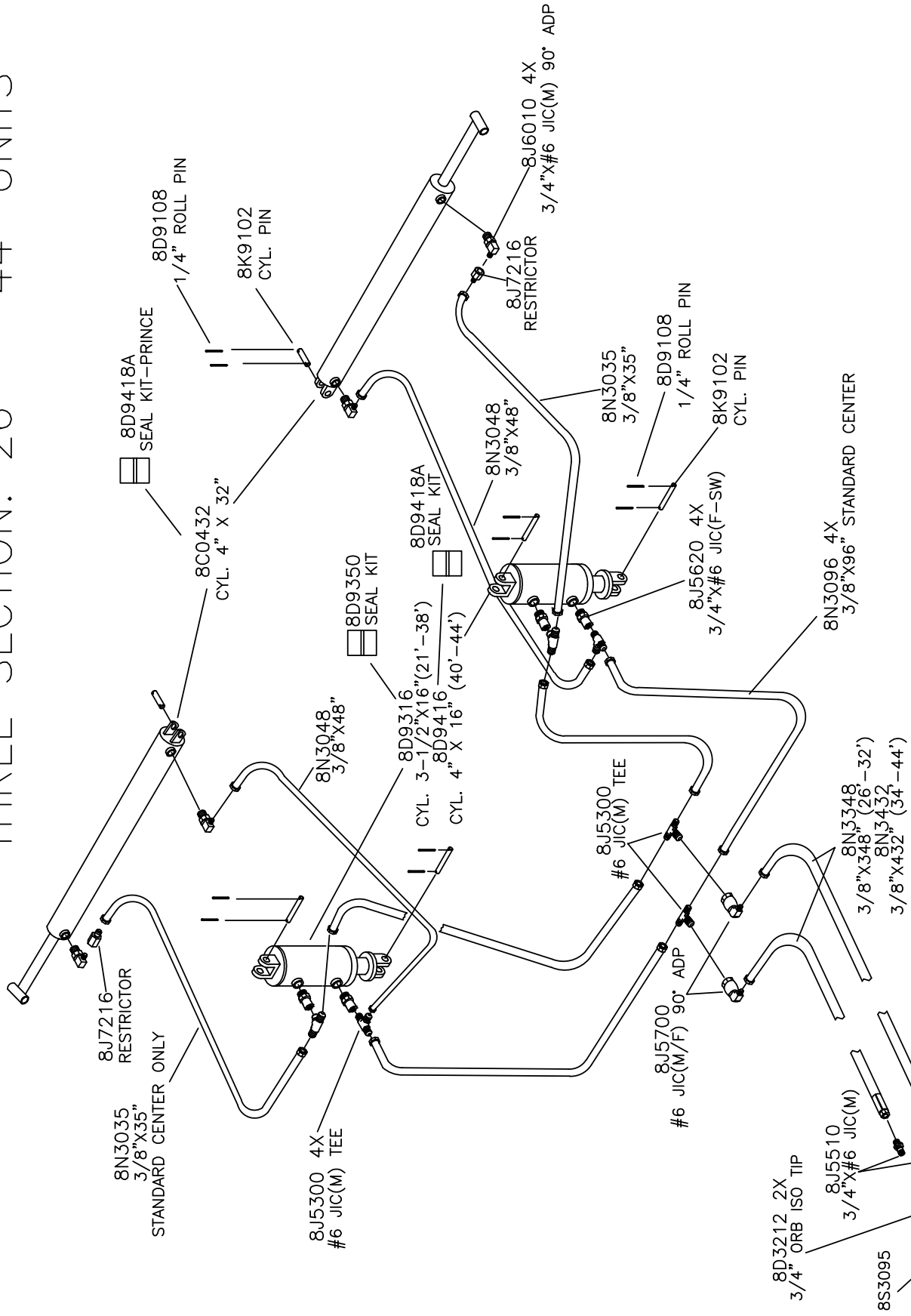


10/4/2016

8Z1111/HYD22_30

SECTION 4 - PARTS

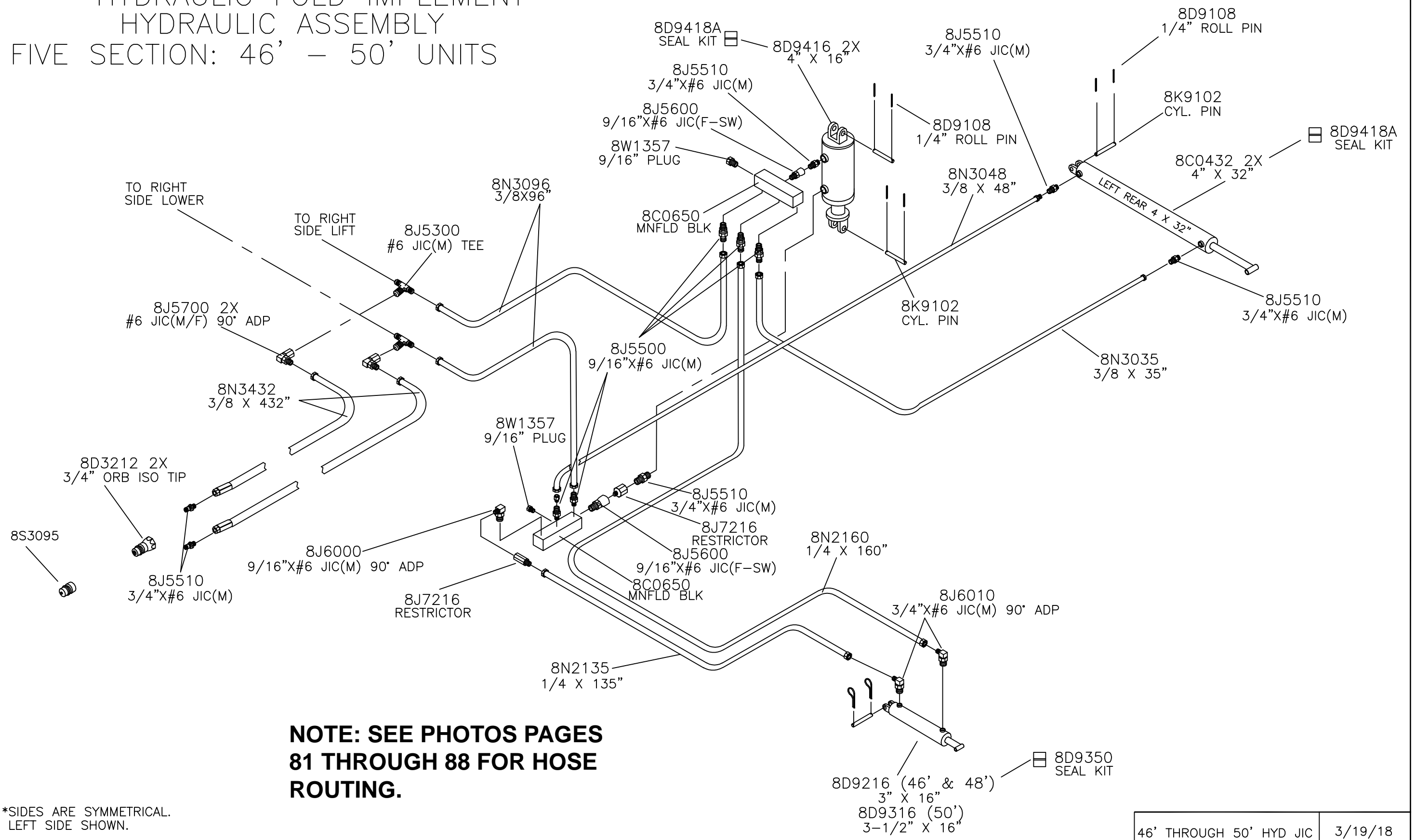
HYDRAULIC FOLD IMPLEMENT HYDRAULIC ASSEMBLY
THREE SECTION: 26' - 44' UNITS



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

SECTION 4 - PARTS

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



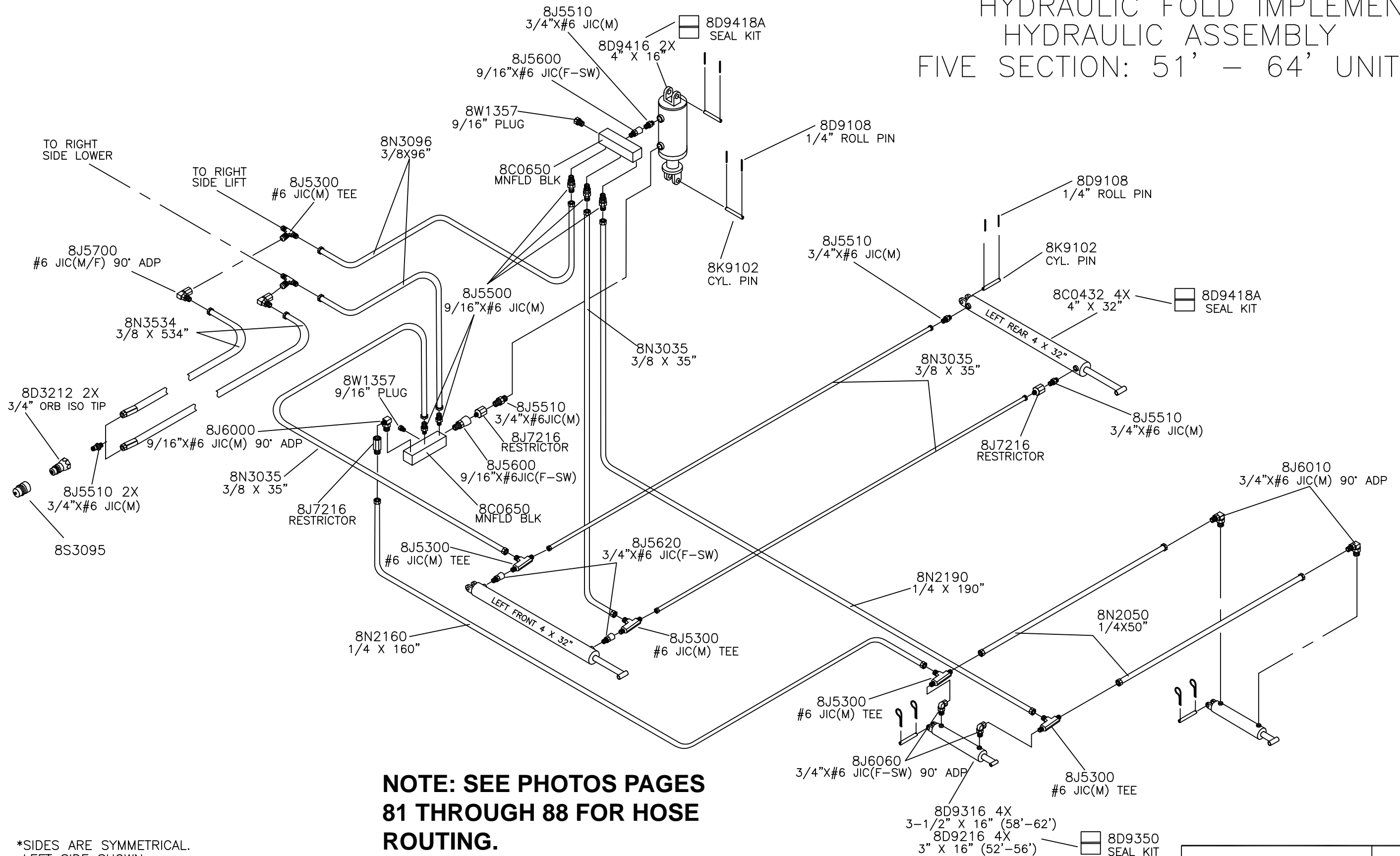
NOTE: SEE PHOTOS PAGES 81 THROUGH 88 FOR HOSE ROUTING.

*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.**

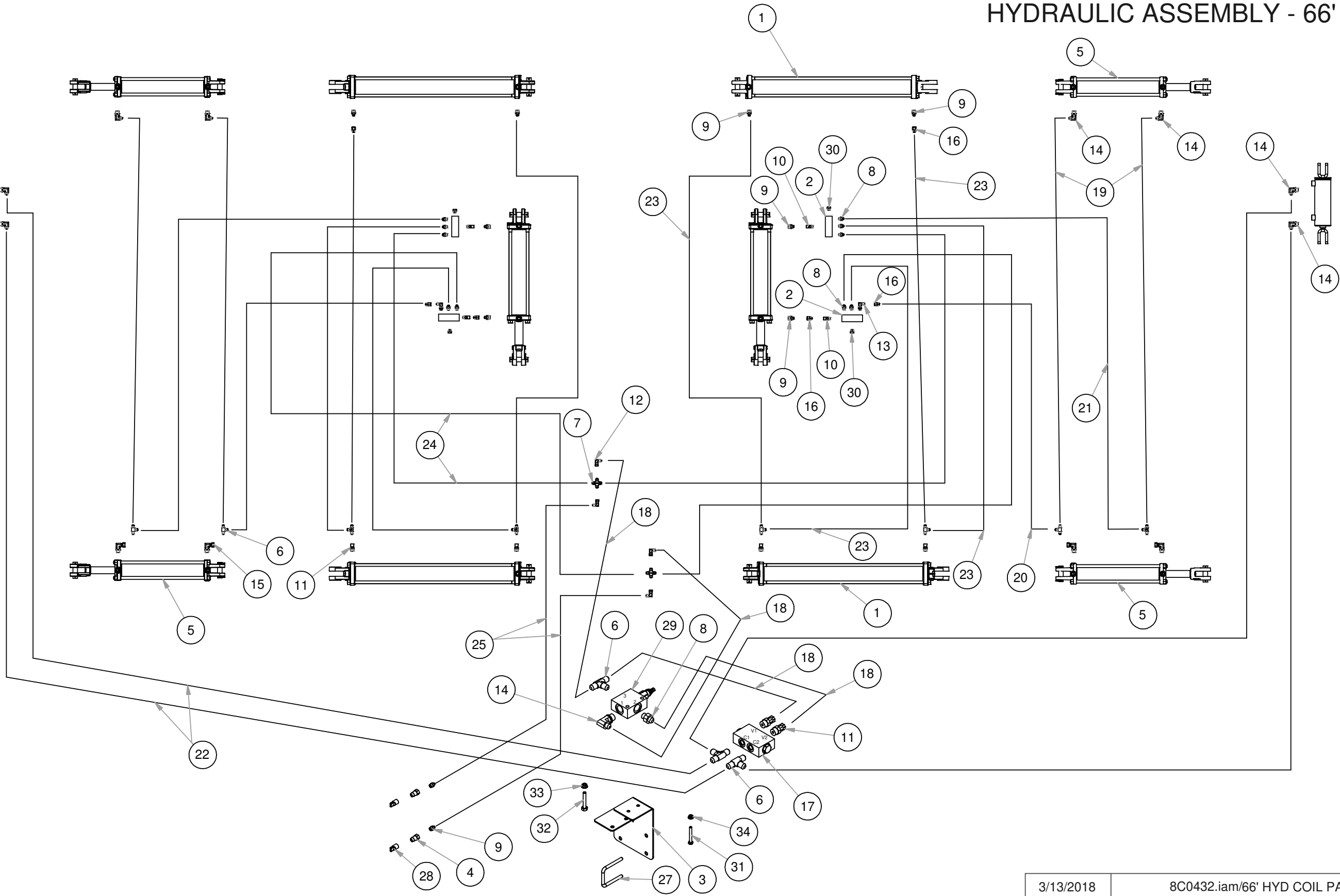
*SIDES ARE SYMMETRICAL.
LEFT SIDE SHOWN.

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

SECTION 4 - PARTS

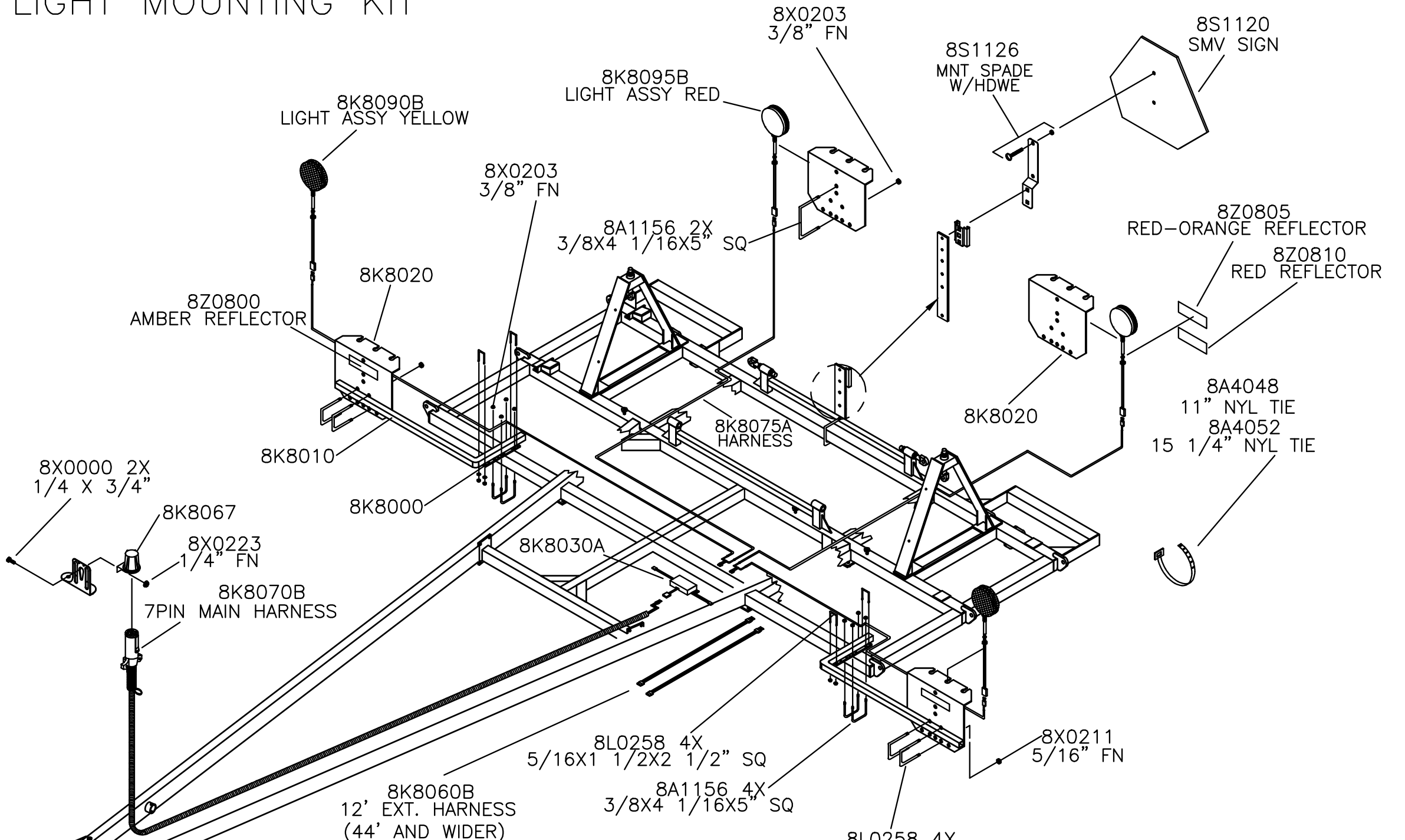
HYDRAULIC FOLD IMPLEMENT
HYDRAULIC ASSEMBLY - 66'

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	8W1357
31	8X0009
32	8X0023
33	8X0211
34	8X0223



SECTION 4 - PARTS

HYDRAULIC FOLD IMPLEMENT
LIGHT MOUNTING KIT



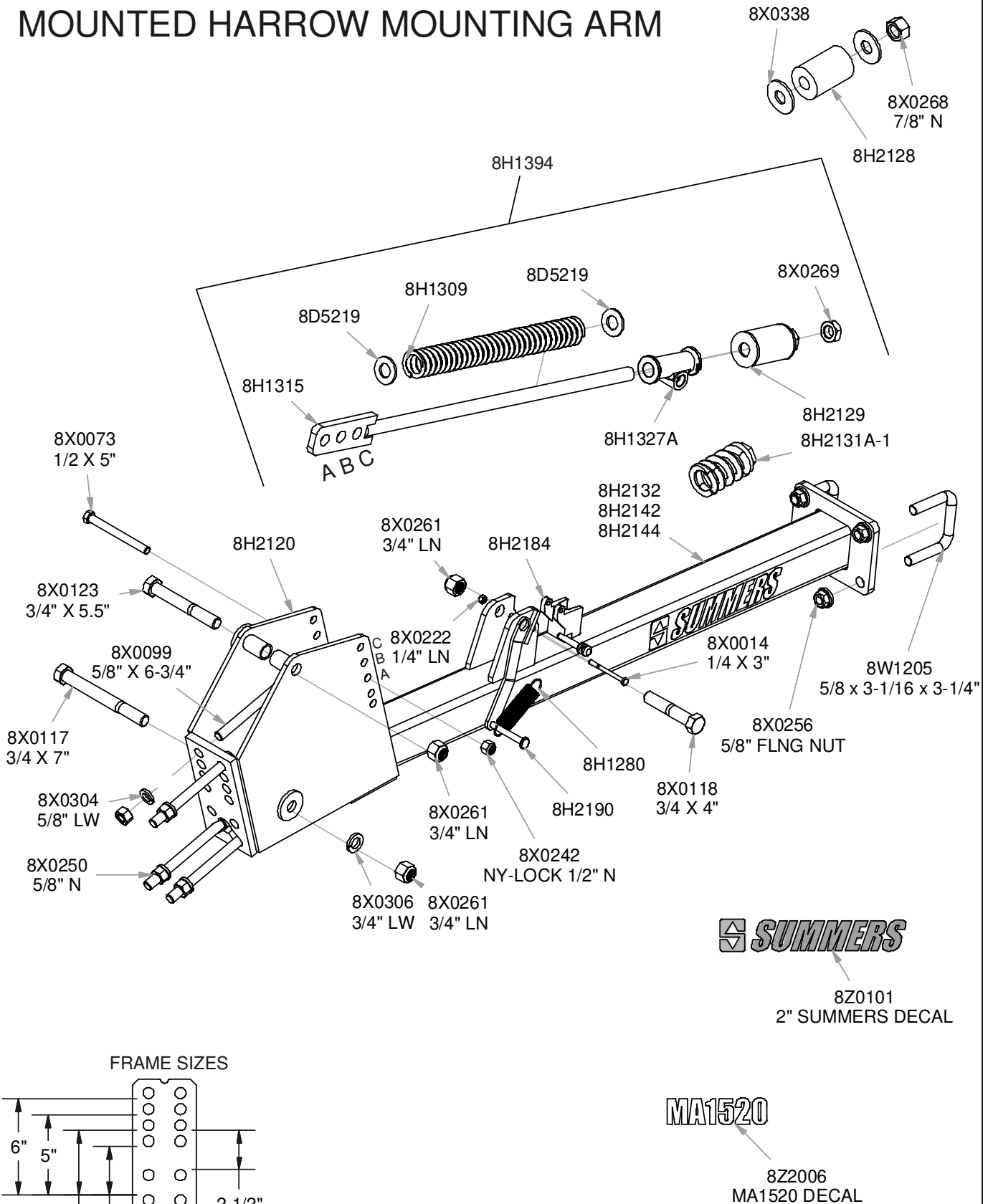
RED LIGHTS AT REAR OF MACHINE AND 24" MINIMUM FROM CENTERLINE (60" MAXIMUM)

YELLOW LIGHTS AT 16" MAXIMUM INSIDE WIDEST PART OF MACHINE

8K8125 4/3/18

SECTION 4 - PARTS

MOUNTED HARROW MOUNTING ARM

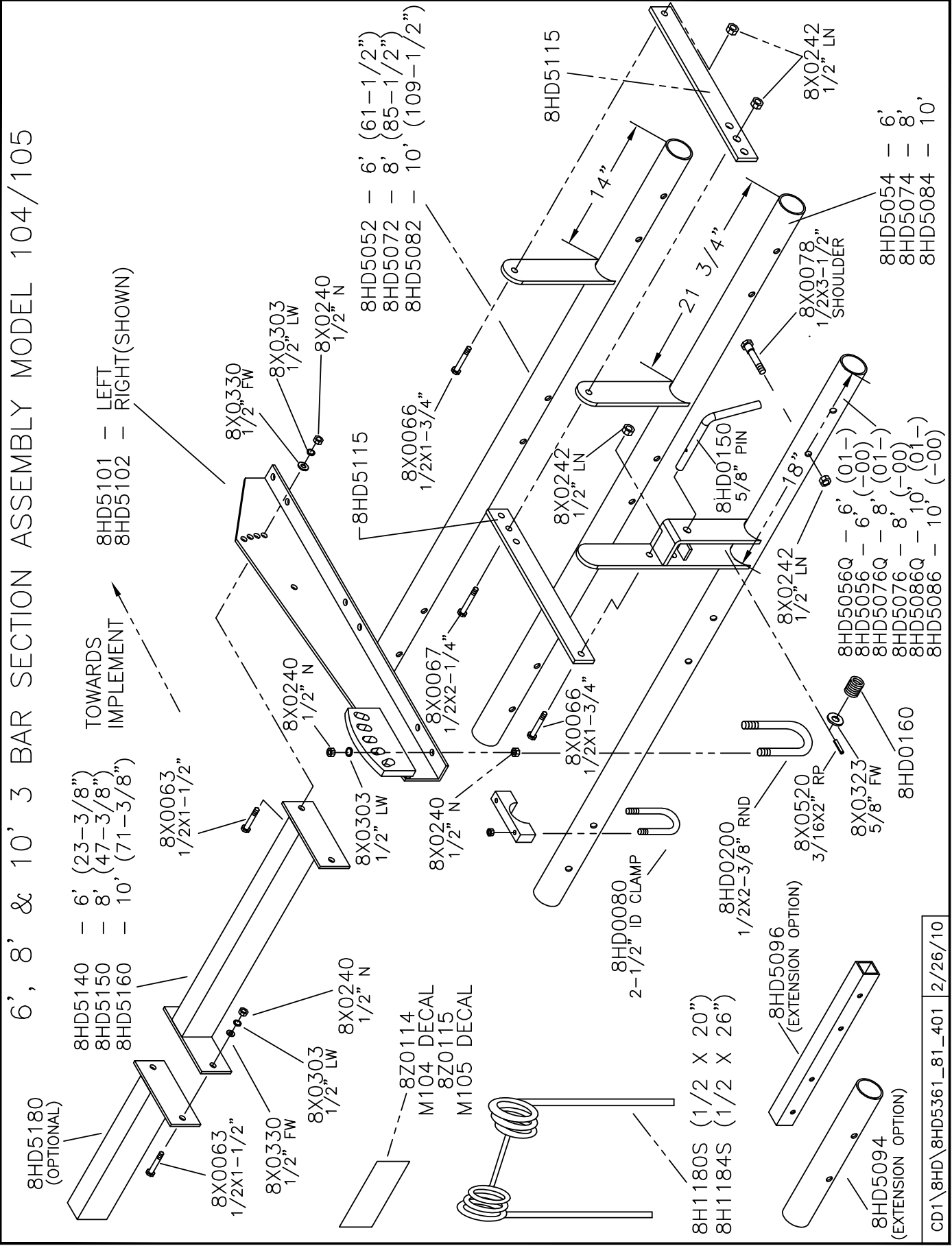


9/18/2018

8H2314.iam/MH MNTNG ARM ASSY

SECTION 4 - PARTS

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

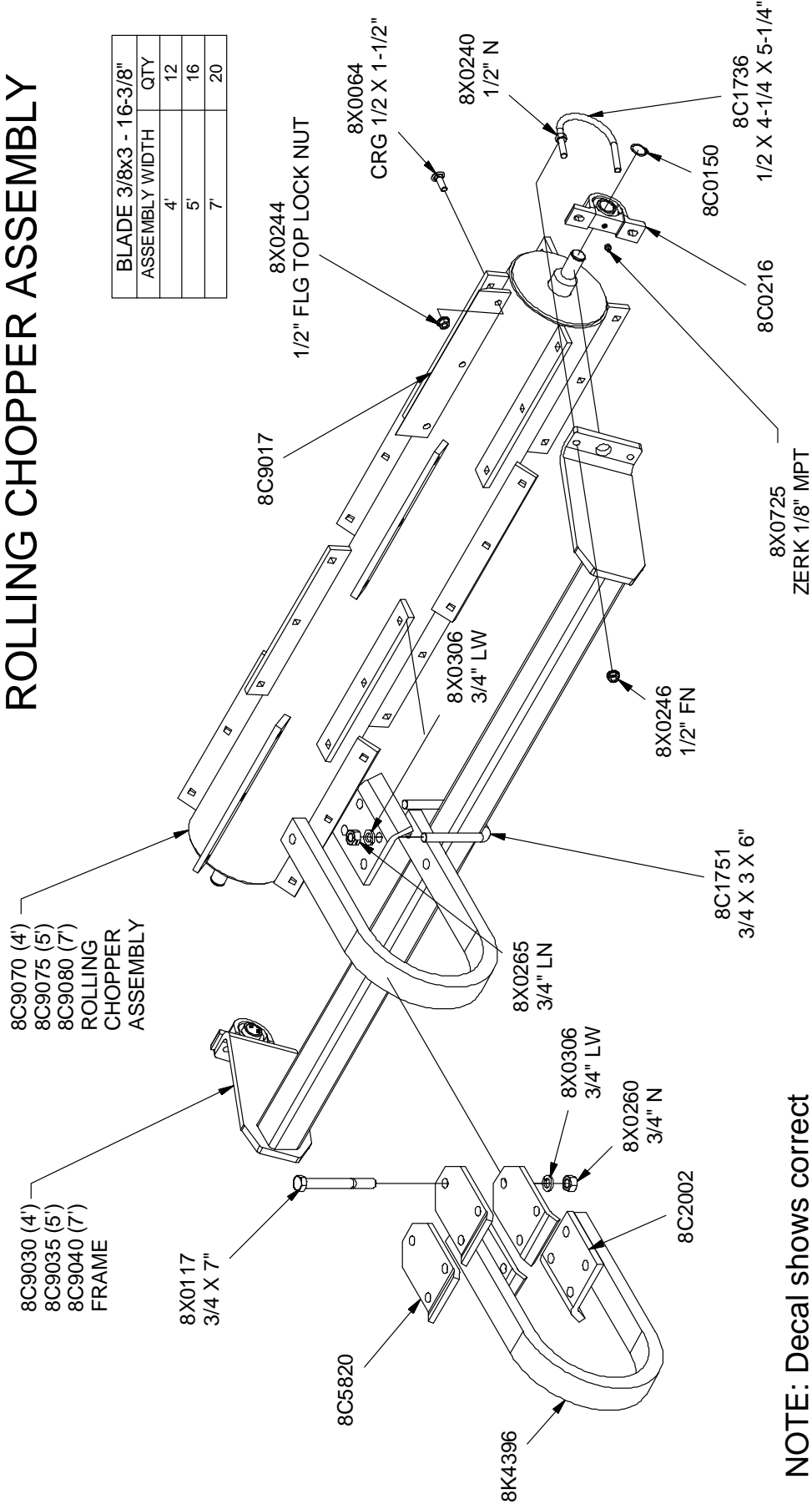


CD\8HD\8HD5361_81_401 2/26/10

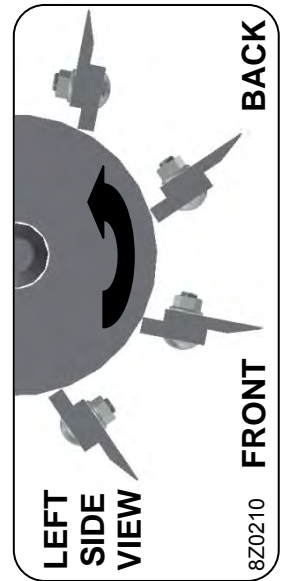
SECTION 5 - PART NUMBERS & DESCRIPTIONS

ROLLING CHOPPER ASSEMBLY

BLADE 3/8X3 - 16-3/8"	
ASSEMBLY WIDTH	QTY
4'	12
5'	16
7'	20



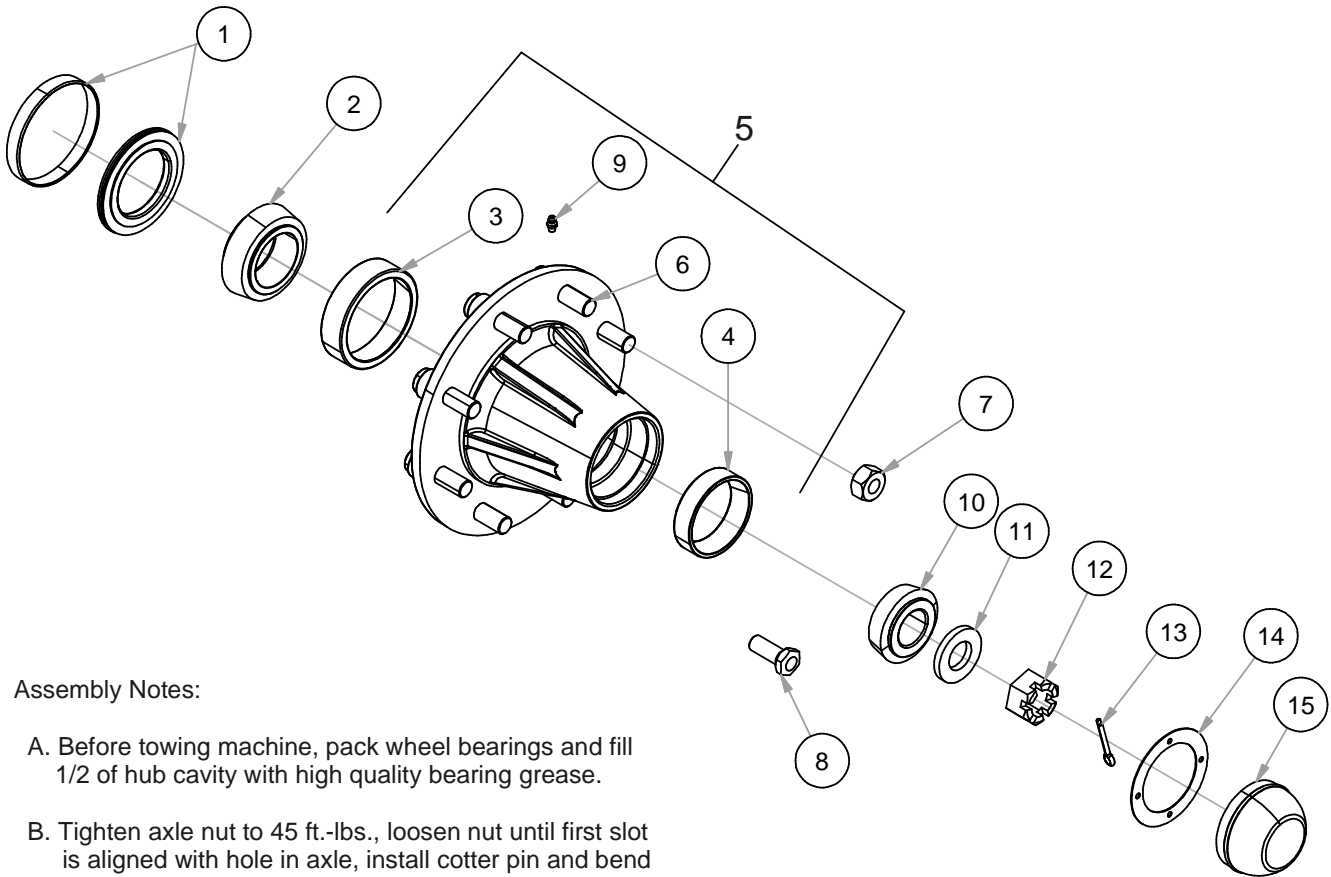
NOTE: Decal shows correct orientation of Rolling Chopper.



8Z0210

9/18/2012 HFRC_CHPPR_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"		DC13		
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"	DC13	
H614	8R6922**	8R6917	8R6925	8D5332	8R6911	N/A	N/A	8R6914	8X0708	8D5217	8D5319	8D5312	8X0415	N/A	8R691B	N/A	
	SEBGBI 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	
	8K7128***					8K7122-5/8"	8K7123-5/8"										DC17
	SLEEVE SE77-1					WB41	WB40										
	LM3780	LM3720	LM2720	HD812	WB46	WB18	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	WB18		1/4-28NF	LM501349	1.312 ID.	1-1/4"-12	1/4X2"		DC26		
HD10 LT	8K7220	8K7217	8K7230	8K7232	8K7211	8K7215	8K7216	N/A	8X0708	8K7218	8X0328	8D5314	8X0414	8K7212	8K721B	8K7214	
	SE48	39585	39520	453A	HD10-9	WB51	WB52		1/4-28NF	460	1.312 ID.	1-1/4"-12	1/4X2"	SE49	DC27	WB53	
HD10 HVY	8K7221	8K7219	8K7231	8K7232	8K7210	8K7215	8K7216	N/A	8X0708	8K7218	8X0328	8D5314	8X0414	8K7212	8K721B	8K7214	
	SE67	33275	33462	453A	HD10-11	WB51	WB52		1/4-28NF	460	1.312 ID.	1-1/4"-12	1/4X2"	SE49	DC27	WB53	
HD20	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"DIA X 1"EYEX10-3/8YZ	8N3216	3/8X 216"HYD HOSE #6FJX3000PSI
8K1750	EYEBOLT 1.5"DIA X 1"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 TBL S 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

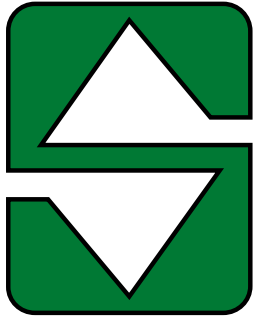
8T4390	HOLDER STROKE CNTRL 4&6" MNT08-	8X0080	BOLT 1/2-13NC X 11" GR5 YZ
8T8100	VALVE SEQUENCE WING FOLD 99-	8X0082	BOLT 1/2-13NC X 6-1/2" GR5 YZ
8W1200	U-BOLT 1/2 X 2 X 3-1/4" SQ	8X0083	BOLT 1/2-13NC X 8" GR5 YZ
8W1204	U-BOLT 1/2 X 3 X 3" SQ	8X0084	BOLT 1/2-13NC X 9" GR5 YZ
8W1357	HEX HEAD PLUG 9/16"-18 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 ADHSVCK98-
8X0332	WASHER 1/4"(5/16" ID) FLAT YZ	8Z0805	REFLCTR REDORANGE ADHSVCK99-
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[®]

... Field Tested TOUGH!



Tillage



Rock Picker



Land Rollers/Packers



Sprayers



Mounted Attachments



Cultivators/Harrows

1-800-732-4347 • www.summersmfg.com