Read the operator’s manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

Illustrations may show optional equipment not supplied with standard unit.
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Important Safety Information

Look for Safety Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

Be Aware of Signal Words

Signal words designate a degree or level of hazard seriousness.

DANGER 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, typically for machine components that, for functional purposes, cannot be guarded.

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION 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.

Use Adequate Lifting Means

The frame sections and gangs of this machine are extremely heavy. If using multiple lifters, make sure each is rated for at least its share of the load.

Prepare for Emergencies

- Be prepared if a fire starts
- Keep a first aid kit and fire extinguisher handy.
- Keep emergency numbers for doctor, ambulance, hospital and fire department near phone.
Be Familiar with Safety Decals

▲ Read and understand the “Safety Decals” section of the Operators Manual.
▲ Read all instructions noted on the decals.
▲ Keep decals clean. Replace damaged, faded and illegible decals.

Wear Protective Equipment

▲ Wear protective clothing and equipment.
▲ Wear clothing and equipment appropriate for the job. Avoid loose-fitting clothing.
▲ Because prolonged exposure to loud noise can cause hearing impairment or hearing loss, wear suitable hearing protection such as earmuffs or earplugs.
▲ Because operating equipment safely requires your full attention, avoid wearing entertainment headphones while operating machinery.

Avoid High Pressure Fluids

Escaping fluid under pressure can penetrate the skin, causing serious injury.
▲ Avoid the hazard by relieving pressure before disconnecting hydraulic lines.
▲ Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
▲ If an accident occurs, seek immediate medical assistance from a physician familiar with this type of injury.

Use Safety Lights and Devices

Slow-moving tractors and towed implements can create a hazard when driven on public roads. They are difficult to see, especially at night.
▲ Use flashing warning lights and turn signals whenever driving on public roads.

Use lights and devices provided with implement

Keep Riders Off Machinery

Riders obstruct the operator’s view. Riders could be struck by foreign objects or thrown from the machine.
▲ Never allow children to operate equipment.
▲ Keep all bystanders away from machine during operation.

Shutdown and Storage

▲ Lower implement, put tractor in park, turn off engine, and remove the key.
▲ Secure Field Cultivator using blocks and supports provided.
▲ Detach and store Field Cultivator in an area where
children normally do not play.

**Tire Safety**

Tire changing can be dangerous and should be performed by trained personnel using correct tools and equipment.

- When inflating tires, use a clip-on chuck and extension hose long enough for you to stand to one side—not in front of or over tire assembly. Use a safety cage if available.
- When removing and installing wheels, use wheel-handling equipment adequate for weight involved.

**Safety At All Times**

Thoroughly read and understand the instructions in this manual before operation. Read all instructions noted on the safety decals.

- Be familiar with all machine functions.
- Operate machinery from the driver’s seat only.
- Do not leave machine unattended with tractor engine running.
- Do not stand between the tractor and machine during hitching.
- Keep hands, feet and clothing away from power-driven parts.
- Wear snug-fitting clothing to avoid entanglement with moving parts.
- Watch out for wires, trees, etc., when folding and raising machine. Make sure all persons are clear of working area.
Introduction

The Field Cultivator has been designed with care and built by skilled workers using quality materials. Proper setup, maintenance, and safe operating practices will help the customer get years of satisfactory use from the machine.

Description of Unit

The Field Cultivator, is a three or five-section seedbed preparation tillage tool. Working width ranges from 23 to 60 feet. The implement is designed for secondary field operations to smooth, level, eliminate weeds and incorporate chemicals. Various finishing attachments are available to further smooth, redistribute residue, firm soil and break clods.

Models Covered

8323FCC 23-Foot 3-section
8328FCC 28-Foot 3-section
8332FCC 32-Foot 3-section
8336FCC 36-Foot 3-section
8539FCC 39-Foot 5-section
8544FCC 44-Foot 5-section
8548FCC 48-Foot 5-section
8551FCC 51-Foot 5-section
8556FCC 56-Foot 5-section
8560FCC 60-Foot 5-section

Document Family

560-483Q-ENG Assembly Manual (this document)
560-483Q Pre-Delivery Manual
560-483M Operator Manual
560-483P Parts Manual

Tools Required

• Basic Hand Tools
• Torque Wrench
• Fork Truck, Overhead Hoist or Loader

Pre-assembly Checklist

1. Before assembling, read and understand “Important Safety Information” in front part of this manual.
2. Have at least two people on hand while assembling.
3. Make sure area is level and free of obstructions (preferably an open concrete area).
4. Have all major components
5. Have all fasteners and pins shipped with Field Cultivator.
Using This Manual

This manual was written to help you assemble and prepare the new machine for the customer. The manual includes instructions for assembly and setup. Read this manual and follow the recommendations for safe, efficient and proper assembly and setup.

An operator's and parts manual is also provided with the new machine. Read and understand "Important Safety Information" and "Operating Instructions" in the operator's manual before assembling the machine. Refer to the parts manual for proper part's identification. As a reference, keep the operator's and part's manual on hand while assembling.

The information in this manual is current at printing. Some parts may change to assure top performance.

Definitions

The following terms are used throughout this manual.

**NOTICE**

A crucial point of information related to the preceding topic. Read and follow the directions to remain safe, avoid serious damage to equipment and ensure desired field results.

Useful information related to the preceding topic.

Right-hand and left-hand as used in this manual are determined by facing the direction the machine will travel while in use unless otherwise stated. An orientation rose in some line art illustrations shows the directions of: Up, Back, Left, Down, Front, Right

Shipping Inventory

The machine will be shipped unassembled as shown in a big shipping rack and shipping boxes on pallets. The only parts that will be assembled are the reel attachment assemblies. The reel attachments (if equipped) will be banded together with the gang assemblies on pallet.

Refer to Figure 3

- All frame sections, hitch and torque tubes will be shipped in shipping container.
Refer to Figure 4

- Shank parts, small parts and bolts will be shipped in boxes. Rear attachment big parts will be banded to attachment smaller parts boxes.

Shipping containers do not need to be returned to Great Plains.

Unloading

Once everything is unloaded from “storage pod” you may proceed with taking parts out of shipping containers. Carefully move everything to level site and prepare to un pack items.

Unpacking Components

Be sure you have read and understood the Important Safety Information, starting on page 1 of this manual, before you start unpacking components.

Centering components:
Be sure and center fork truck or chains (overhead hoist) on components so they won’t slide and cause injury.
Carefully un-band components.

Now unload individual components one at a time using a fork truck or overhead hoist.

Move each component out of the way so you have plenty of room to remove the next one.

Unload Smaller Items First

Unloading the frames is a potentially dangerous operation.

Reduce risk and complication by first unloading
1. the tire wheel assemblies,
2. the smaller items

Place these components well out of the maneouvring area needed for unloading the gang assemblies and frames.
3. Carefully unload the Frames and hitch out of shipping rack

Unpacking Boxes

1. Carefully remove banding and lids from boxes.
2. Locate and identify all componets before assem- bling.

Further Assistance

Great Plains Manufacturing, Inc. wants you to be satisfied with your new Turbo Max. If for any reason you do not understand any part of this manual or are otherwise dissatisfied with the product please contact:

Great Plains Service Department
1525 E. North St.
PO Box 5060
Salina, KS 67402-5060

Or go to www.greatplainsag.com and follow the contact information at the bottom of your screen for our service department.
Install Center Frame

Refer to Figure 5

3. Once the center Frame has been uncrated and put on stands, the brace bar and trusses maybe installed.

4. Carefully move center brace bar ② to front of center frame ①, with overhead hoist or fork lift, secure with 3/4 x 2 hex bolts ③, 3/4 lock washers and nuts.

5. Attach center frame trusses ④ with 3/4 x 2 hex bolts ③ (front plates), 3/4 lock washers and nuts, rear plates with 5/8 x 1 1/2 hex bolts ⑤, 5/8 lock washers and nuts.

6. On models 8332-8560 attach the brace bar truss ⑥ (middle plates) with 5/8 x 1 1/2 hex bolts ⑤, 5/8 lock washers and nuts, outside plates with 3/4 x 2 hex bolts ③, 3/4 lock washers and nuts.

7. Attach light brackets, LH ⑦ and RH ⑧ with 1/2 x 3 1/32 x 6-u-bolts (models 8323-8328) or 1/2 x 5 1/32 x 4 1/2-u-bolt ⑪ (models 8332-8560), 5/8 lock washers and nuts.

See machine layout section in this manual for proper light bracket placement.

8. Attach light mounting brackets ⑩ to rear center frame tube with 1/2 x 4 1/32 x 4-u-bolt ⑫, 1/2 lock washers and nuts.

9. Mount smv post ⑬ with 1/2 x 4 1/32 x 4-u-bolt ⑫, 1/2 lock washers and 1/2 nuts as close to center of tube shown.

Attach smv sign ⑭ to rear of smv post with 1/4 x 3/4 pan head screws ⑮, 1/4 lock washers and nuts.

10. All bolts may be tightened to specs, See “Torque Values Chart” on page 25. Attach plastic end caps ⑱ to all open ends of 4 x 3 tube.

Figure 5
Center Frame Assembly
Torque Tube & Level Bar

Refer to Figure 6

11. Carefully raise the torque tube ① with an overhead hoist and secure with 1 ② 1/4 x 6 pins ②, 3/8 x 2 1/4 Gr. 8 hex bolts and 3/8 top lock nut.
12. Attach the h-bracket mounting plate ② with 3 ③ 4 x 2 hex bolts ④, secure with 3/4 lock washers and nuts.
13. Attach the h-bracket ⑤ into the h-bracket mounting plate ④, secure with 1 x 2 ⑥ 29/64 clevis pins ⑥, 1.5 machine washers and ⑦ 3/16 x 2 cotter pins.
14. Attach level bar slide tube assembly ⑦ to top hole of h-bracket ⑤ with 1 x 9 Gr. 8 hex bolt ⑤ and 1 top lock nut.
15. Now slide the front of the level bar ③ over the back side of the level bar slide tube assembly ⑦, secure with a 3 ③ 1/4 x 5 ④ 1/2 hex bolt ⑤ and ④ 3/4 lock nut.
16. Attach rear of level bar ③ to the torque tube with the 1 x 6 Gr. 8 special hex bolt ⑤ and 1 top lock nut.
17. Mount the level bar cross tube ⑤ to the level bar side plates with ⑤ ⑦ 5/8 x 1 1/2 hex bolts ⑤, secure with ⑦ 5/8 lock washers and nuts.
18. Now install the cylinders ⑤ using 1 x 3 ⑤ 1/8 pins ⑤, 1.5 x 1.0 x.075 machine washers and ⑤ ⑤ 3/16 x 2 cotter pin.
19. Install cylinder transport locks ⑤ to cylinders ⑤ using ⑤ ⑤ 3/8 x 3 pins and clip pins.
20. All bolts may be tightened to specs, See “Torque Values Chart” on page 25.
Center Fold
Refer to Figure 7

Models 8323-8328 wing stop goes on rear plates of center frame trusses. All other models go on front plates as shown.

21. Attach inside plates of center wing stop 1, to center frame trusses using 5/8 x 1 1/2 bolts 2, 5/8 lock washers and nuts.

22. Attach outside plates of center wing stop 1, to outside tubes of center frame with 5/8 x 3 1/32 x 6 1/2 u-bolts 3, 5/8 lock washers and nuts.

23. Mount front 4 and rear 5 fold brackets to center frame plates with 5/8 x 1 1/2 bolts 2, 5/8 lock washers and nuts.

24. Insert the 1/2 x 4 1/2 pin w/keepers 6 into round tubes on rear of wing stop 1.

25. All bolts may be tightened to specs, See “Torque Values Chart” on page 25.

Connect Hitch
Refer to Figure 8

26. Attach hitch 1 to center brace bar using 1 1/4 x 7 Gr. 8 hex bolt 2, 1 1/4 flat washers 3 (one on outside of hitch, both sides) and top lock nut.

27. Mount square jack 4 to front mount on hitch 1 with pin provided with jack.

Use jack to help support front of hitch for rest of hitch assembly.

28. Attach rear of turnbuckle assembly 5 to h-bracket with 1 x 9 Gr. 8 hex bolt 6 and 1 nylon lock nut.

29. Attach front of turnbuckle assembly 5 to hitch 1 using 1 x 4 1/2 pin 7, 1.5 x 1.0 x 0.075 machine washer and 3/16 x 2 cotter pin.

30. Align holes in hitch base 8 with holes in front of hitch 1.

31. Align holes in safety chain support 9 with holes on left side of hitch 1, secure with 1 x 8 Gr. 8 special hex bolts 10, 1 lock washers and 1 nuts.

32. Install safety chain 11 on bottom side of hitch 1, secure with 5/8 x 3 hex bolt 12, 5/8 flat washer, 5/8 lock washer and nut.

33. Route safety chain 11 through safety chain support 9.

34. Mount spring hose loop 13 to top side of hitch 1, with 1/2 x 1 1/2 bolt 14, 1/2 lock washer and flat washer.

35. Mount the manual pack 15 to hitch 1 with 1/4 x 3/4 pan screws 16, rubber spacers 17, 1/4 lock washers and nuts.

36. All bolts may be tightened to specs, See “Torque Values Chart” on page 25.
Install Wing Cylinder Mount

Refer to Figure 9

- The wing cylinder mount assemblies will be installed as shown below for all wings.

37. Attach cylinder mount plate 1 to inside of tube weldment of wing frame, with 1 x 9 Gr. 8 hex bolt 2 and 1 top lock nut. Tighten bolt down snug.

38. Slide adjustment bolt assembly 3 through front side of ball joint on wing frame, secure with 1 slotted nut 4 and 3/16 x 1 1/2 roll pin. Attach clevis end of adjustment bolt assembly 3 to rear hole of cylinder mount plate 1 with 1 x 2 29/64 clevis pin 5, 1.5 x 1.0 x.075 machine washer and 3/16 x 2 cotter pin.

See side to side leveling in “Operator’s Manual” for proper adjustment of wing when machine is completely assembled.

Install 8323 & 8328 Wings

Refer to Figure 10

- Be sure and install the 1 x 6 1/4 hinge pins 2 as shown with roll pin in slot on front side of hinge.

39. Carefully align holes in wing frame LH 1 with holes in center frame. Secure with 1 1/4 x 6 1/4 hinge pins 2, 3/8 x 2 1/2 roll pins, 1 flat washer 1 top lock nut.

40. Attach wing brace 3 to the front of the wing frame LH 1 with 3/4 x 2 hex bolts 4, 3/4 lock washers and hex nuts.

41. Align holes in wheel arm L 5, secure with 1 1/4 x 6 pins 6, 3/8 x 2 1/4 hex bolts and 3/8 top lock nuts.

42. Mount wing fold bracket 7 to wing with 3/8 x 5 hex bolts 8, 3/4 lock washers and 3/4 hex nuts, 3/8 x 3 1/32 x 5 1/2 u-bolts 9, 5/8 lock washers and hex nuts.

43. Attach base end of 3.25 x 8 x 1.25 lift cylinder 10 to front hole of cylinder mount plate 1 with 1 x 3 1/8 pin 11, 1.5 x 1.0 x .075 machine washer and 3/16 x 2 cotter pin. Attach rod end of 3.25 x 8 x 1.25 cylinder 10 to wheel arm L 5 with 1 x 3 1/8 pin 12, 1.5 x 1.0 x .075 machine washer and 3/16 x 2 cotter pin.

44. Attach base end of 4 x 30 x 1.5 fold cylinder 13 to hole of center fold bracket with 1 x 3 3/8 pin 14, 1.5 x 1.0 x .075 machine washer and 3/16 x 2 cotter pin.

45. Do not attach rod end of fold cylinders until fold system has been purged, See “Purging Hydraulic System” on page 22

46. Repeat same procedure for right wing.

47. Tighten all bolts to specs, See “Torque Values Chart” on page 25.
Install 8332 & 8336 Wings

Refer to Figure 11

1. Be sure and install the 1 x 6 1/4 hinge pins as shown with roll pin in slot on front side of hinge.

48. Carefully align holes in wing frame with holes in center frame. Secure with 1 1/4 x 6 1/4 hinge pins, 3/8 x 2 1/2 roll pins, 1 flat washer 1 top lock nut.

49. Attach wing brace to the front of the wing frame with 3/4 x 2 hex bolts, 3/4 lock washers and hex nuts.

50. Align holes in wheel arm, secure with 1 1/4 x 6 pins, 3/8 x 2 1/4 hex bolts and 3/8 top lock nuts.

51. Fasten wing truss to wing with 5/8 x 1 1/2 hex bolts, 5/8 lock washers and hex nuts.

52. Mount wing truss to wing with 5/8 x 1 1/2 hex bolts, 5/8 lock washers and hex nuts.

53. Mount wing fold bracket to wing with 3/4 x 5 hex bolts, 3/4 lock washers and hex nuts, 5/8 x 3 1/32 x 5 1/2 u-bolts, 5/8 lock washers and hex nuts.

54. Attach base end of 3.25 x 8 x 1.25 lift cylinder to front hole of cylinder mount plate with 1 x 3 1/8 pin, 1.5 x 1.0 x .075 machine washer and 3/16 x 2 cotter pin. Attach rod end of 3.25 x 8 x 1.25 cylinder to wheel arm L with 1 x 3 1/8 pin, 1.5 x 1.0 x .075 machine washer and 3/16 x 2 cotter pin.

55. Attach base end of 4 x 30 x 1.5 fold cylinder to hole of center fold bracket with 1 x 3 1/8 pin, 1.5 x 1.0 x .075 machine washer and 3/16 x 2 cotter pin.

56. Attach 5" stub to outside of wing extension, with 5/8 x 1 1/2 hex bolts, 5/8 lock washers and hex nuts.

57. Do not attach rod end of fold cylinders until fold system has been purged, See "Purging Hydraulic System" on page 22.

58. Repeat same procedure for right wing. Tighten all bolts to specs, See "Torque Values Chart" on page 25.
Install 5-Section Wing

Refer to Figure 12

Be sure and install the 1 x 6\(\frac{1}{4}\) hinge pins \(\circ\) as shown with roll pin in slot on front side of hinge.

59. Carefully align holes in wing frame LH \(\circ\) with holes in center frame. Secure with 1\(\frac{1}{4}\) x 6\(\frac{1}{4}\) hinge pins \(\circ\), \(\frac{3}{8}\) x 2\(\frac{1}{2}\) roll pins, 1 flat washer 1 top lock nut.

60. Attach wing brace \(\circ\) to the front of the wing frame LH \(\circ\) with \(\frac{3}{4}\) x 2 hex bolts \(\circ\), \(\frac{3}{4}\) lock washers and hex nuts.

61. Align holes in wheel arm L \(\circ\), secure with 1\(\frac{1}{4}\) x 6 pins \(\circ\), \(\frac{3}{8}\) x 2\(\frac{1}{4}\) hex bolts and \(\frac{3}{8}\) top lock nuts.

62. Fasten LH wing truss \(\circ\) to wing with \(\frac{5}{8}\) x 1\(\frac{1}{2}\) hex bolts \(\circ\), \(\frac{5}{8}\) lock washers and hex nuts.

63. Attach base end of 3.50 x 8 x 1.25 lift cylinder (models 8539-8548) or 3.75 x 8 x 1.38 lift cylinder (models 8551-8560) \(\circ\) to front hole of cylinder mount plate \(\circ\) with 1 x 3\(\frac{1}{8}\) pin \(\circ\), 1.5 x 1.0 x 0.075 machine washer and \(\frac{3}{16}\) x 2 cotter pin. Attach rod end of cylinder \(\circ\) to wheel arm L \(\circ\) with 1 x 3\(\frac{1}{8}\) pin \(\circ\), 1.5 x 1.0 x 0.075 machine washer and \(\frac{3}{16}\) x 2 cotter pin.

64. Tighten all bolts to specs, See “Torque Values Chart” on page 25.

Install 5-Section Wing Fold

Refer to Figure 13

65. Mount wing folding brackets \(\circ\) to wing with \(\frac{3}{4}\) x 5 hex bolts \(\circ\), \(\frac{3}{4}\) lock washers and hex nuts, \(\frac{5}{8}\) x 3\(\frac{1}{32}\) x 5\(\frac{1}{2}\) u-bolts \(\circ\), \(\frac{5}{8}\) lock washers and nuts, \(\frac{3}{4}\) x 5\(\frac{1}{2}\) hex bolt \(\circ\), \(\frac{3}{4}\) lock washer and nut.

66. Attach base end of 4 x 30 x 1.5 cylinders \(\circ\) to center fold bracket with 1 x 3\(\frac{1}{8}\) pin \(\circ\), 1.5 x 1.0 x 0.075 machine washer and \(\frac{3}{16}\) x 2 cotter pin.

67. Do not attach rod end of fold cylinders until fold system has been purged, See “Purging Hydraulic System” on page 22.

68. Attach inside wing hinge \(\circ\) to wing brace with \(\frac{5}{8}\) x 1\(\frac{1}{2}\) hex bolts \(\circ\), \(\frac{5}{8}\) lock washers and hex nuts, \(\frac{5}{8}\) x 3\(\frac{1}{32}\) x 5\(\frac{1}{2}\) u-bolt \(\circ\), \(\frac{5}{8}\) lock washers and nuts.

69. Attach wing lock mount \(\circ\), on top of wing frame tube, with \(\frac{1}{2}\) x 3\(\frac{1}{32}\) x 5 u-bolts \(\circ\), \(\frac{5}{8}\) lock washers and nuts.

70. Bolt the automatic wing latch \(\circ\), wing lock mount \(\circ\), with \(\frac{3}{4}\) x 4\(\frac{1}{2}\) hex bolts \(\circ\), \(\frac{3}{4}\) lock washers and nuts.

71. Attach wing rest \(\circ\) to front wing folding bracket \(\circ\), secure with wing rest plate \(\circ\), \(\frac{1}{2}\) x 4\(\frac{1}{2}\) hex bolts \(\circ\), \(\frac{1}{2}\) lock washers and nuts.

72. Tighten all bolts to specs, See “Torque Values Chart” on page 25. Repeat same procedure for right wing.
Figure 13
5-Section Wing Fold Assembly
Install 5-Section Outside Wings

Refer to Figure 14

73. Align holes in outside wing hinge ① with hole in LH and RH outside wing ②. Secure with 1 x 5 1/2 hex bolt ④, 1 lock washers, nuts and two 5/8 x 3 1/32 x 5 u-bolts ⑤, 5/8 lock nuts. Fasten the front outside wing hinge ① to wing brace the same way.

74. Carefully align holes in wing hinges ① with holes in fold brackets. Secure with 1 1/4 x 7 Gr. 8 hex bolt ⑥ and 1 1/4 top lock nut.

75. Attach outside wing brace ③ to front side of wing frame with 3/4 x 2 hex bolts ⑦, 3/4 lock washers and hex nuts.

76. Attach bolt-on stub ⑧ to side of wing brace and front of wing frame with 5/8 x 4 1/32 x 4 1/4 u-bolts ⑨, 5/8 lock washers and nuts

77. Attach holes in wheel arm L ⑩, to wing frame ②, secure with 1 1/4 x 6 pin ⑪, 3/8 x 2 1/4 hex bolts and 3/8 top lock.

78. Attach base end of 3.25 x 8 x 1.25 lift cylinder (models 8539-8548) or 3.50 x 8 x 1.325 lift cylinder (models 8551-8560) ⑫ to front hole of cylinder mount ⑬ plate with 1 x 3 1/8 pin ⑭, 1.5 x 1.0 x 0.075 machine washer and 3/16 x 2 cotter pin. Attach rod end of cylinder ⑫ to torque tube lever with 1 x 3 1/8 pin ⑭, 1.5 x 1.0 x 0.075 machine washer and 3/16 x 2 cotter pin.

79. Mount bottom of 180 fold rocker ⑯ to wing hinge ① with 1 x 3 1/8 clevis pin ⑱, 1.5 x 1.0 x 0.075 machine washer and 3/16 x 2 cotter pin.

80. Attach base end of 4 x 16 x 1.25 cylinders ⑰ to center fold bracket with 1 x 3 1/8 pin ⑱, 1.5 x 1.0 x 0.075 machine washer and 3/16 x 2 cotter pin.

81. Do not attach rod end of fold cylinders until fold system has been purged, See “Purging Hydraulic System” on page 22.

82. Attach T bracket ⑲ to wing frame with 1/2 x 3 1/32 x 5 u-bolts ⑳, 1/2 lock washers and nuts.

See layout section in “Operator’s Manual” for proper placement of lock mount ⑰.

83. Tighten all bolts to specs, See “Torque Values Chart” on page 25.
Center Transport

See "Tires Chart" on page 26 for proper tire sizes for tire/wheel assembly 5.

Refer to Figure 15

See transport section of "Parts Manual" for proper parts breakdown for center walking beam assemblies (left hand and right hand) for model of machine purchased. See notes on drawing for proper hole placement of walking beam spindle and front tube on walking beam.

84. Install the walking beam assembly 4 with correct 5/16 hex bolt 2 and 5/16 top lock nut.
85. Align hole in spindle/hub assembly 3 to hole in walking beam assembly 4 secure with hex bolt and top lock nut or pin and cotter pin 4.
86. Mount tire/wheel assembly 5 to spindle/hub assembly 3 with 5/16 or 5/8 lug nuts 6.

Left hand shown is shown. Repeat same procedure for right side.

87. Tighten all bolts to specs, See "Torque Values Chart" on page 25.

Wing Transport

Refer to Figure 16

See transport section of "Parts Manual" for proper parts breakdown for wing walking beam assemblies. See notes on drawing for proper hole placement on walking beam spindle and front tube of walking beam. See "Tires Chart" on page 26 for proper tire sizes for tire/wheel assembly 5.

88. Install the walking beam assembly 4 with correct 5/16 hex bolt 2 and 5/16 top lock nut.
89. Align hole in spindle/hub assembly (13.5" spindle) 3 to hole in walking beam assembly 4 secure with 5/16 x 2 13/16 pin clevis 4 and cotter pin.
90. Mount tire/wheel assembly 5 to spindle/hub assembly 3 with 5/16 lug nuts 6.

Left hand shown is shown. Repeat same procedure for right side.

91. Tighten all bolts to specs, See "Torque Values Chart" on page 25
Install Gauge Wheel

Refer to Figure 17

92. Start by installing the wheel arm mount ① to the plates on wing frame with 5/8 x 2 hex bolts ②, 5/8 lock washers and nuts.

93. Slide screw jack ③ down through the wheel arm mount plate, secure with 1/2 x 1 1/4 hex bolts ④ and 1/2 top lock nuts.

94. Slide the spindle receiver ⑤ inside the wheel arm mount, align holes, secure with 3/4 x 4 hex bolt ⑥, 3/4 lock washer and nut. Install two 5/8 x 1 1/4 hex bolts ⑦ to welded nuts on wheel arm mount.

95. Slide 6-bolt hub assembly ⑧ into spindle receiver ⑤, align holes, secure with 5/16 x 2 13/16 clevis pin ⑨ and 1/8 x 1 cotter pin.

96. Attach the 9.5L x 15, 8 ply, wheel/tire assembly ⑩ to 6-bolt hub assembly and secure with 5/16 lug nuts ⑪.

97. Tighten bolts to specs, See “Torque Values Chart” on page 25.

Install K-Flex

See layout section in appendix section for proper shank placement.

Refer to Figure 18

98. Slide k-flex shank mount ① through slot in k-flex clamp ②. Slide these two parts over frame tube in proper location.

99. Align top hole in k-flex clip ③ with top hole in k-flex clamp ②, secure with 1/2 x 1 1/2 hex bolt ④, 1/2 lock washer and 1/2 nut. Install 1/2 x 5 hex bolts ⑤, 1/2 lock washers and nuts.

100. Slide shank ⑥ through slotted hole in k-flex shank mount (①), secure with 5/8 x 2 hex bolt ⑦ and 5/8 top lock nut. Attach sweep ⑧ with 7/16 x 1 3/4 plow bolts ⑨, one, 7/16 flat washer ⑩ (top slotted hole) and 7/16 nylock nuts.

101. Tighten all bolts to specs, See “Torque Values Chart” on page 25.
Install Magnum Shank

- See layout section in appendix section for proper shank placement.

Refer to Figure 19

102. Loosen $\frac{1}{2} \times 1\frac{1}{2}$ hex bolt ④ clear up to get $\frac{5}{8} \times 2$ hex bolt ⑤ installed.

103. Position pre-assembled shank mount assembly ① over front of frame tube in proper location. Secure with $\frac{5}{8} \times 4\frac{3}{32} \times 4\frac{3}{4}$ u-bolt ② and $\frac{5}{8}$ top lock nut.

104. Be sure the $\frac{3}{4}$ nylock jam nut ⑥ is loose enough for shank cradle to pivot.

105. Slide shank ⑤ into shank cradle until holes are aligned, secure with $\frac{5}{8} \times 2$ hex bolt ⑥ and $\frac{5}{8}$ top lock nut.

106. Align sweep ⑦ with holes on shank ⑤, secure with $\frac{7}{16} \times 1\frac{3}{4}$ plow bolts ⑧, one, $\frac{7}{16}$ flat washer ⑨ (top slotted hole) and $\frac{7}{16}$ nylock nuts.

107. Re-tighten $\frac{1}{2} \times 1\frac{1}{2}$ hex bolt ④ until threads bottom out.

IIMPORANT(!) Be sure and tighten $\frac{3}{4}$ nylock jam nut ⑥ until threads bottom out to insure that hole doesn’t wear excessively.

108. Tighten rest of bolts to specs, See “Torque Values Chart” on page 25.

Install Hydraulic Valves

Refer to Figure 20

109. Align holes in depth control valve ① to top of depth stop valve mounting bracket ② using $\frac{5}{16} \times 2$ hex bolts ② and $\frac{5}{16}$ lock washers.

110. Slide one end of depth stop tube ③ (with 2 holes) through slotted hole in depth stop valve mounting bracket. Slide other end of depth stop tube ③ lever on torque tube, secure with $\frac{1}{2} \times 3$ hex bolt ④ and $\frac{1}{2}$ lock nut.

111. Bolt depth stop screw assembly ⑤ to front of depth stop tube ③ with $\frac{1}{2} \times 2\frac{1}{2}$ hex bolts ⑥, $\frac{1}{2}$ lock washers and nuts.

112. Mount rebound valve ⑦ to bracket, with $\frac{5}{16} \times 4$ hex bolts ⑥, $\frac{5}{16}$ lock washers and nuts.

113. Tighten rest of bolts to specs, See “Torque Values Chart” on page 25 and bend cotter pin.

I Install all hydraulic fittings as shown in steps on following pages. Refer to appendix section for complete hydraulic layouts.
Install Rebound Valve and O-Ring Fittings

Refer to Figure 21

114. Thread straight (non-adjustable stud) fittings ① into ports V1, V2 and C2 of rebound valve ①.

Tighten as shown below. Do not over tighten as this could cause damage to valves.

a. Inspect all components for damage or contamination during shipping.
b. Lubricate o-ring and threads on fitting.
c. Turn fitting into port until finger tight, See "Fittings Torque Values" on page 27 or proper torque value.

115. Thread elbow (adjustable stud) fitting ② into port C1 of rebound valve ①.

a. Follow steps a and b from the foregoing instructions, then proceed with the following steps below.
b. Looking from fitting from end with nut/washer/o-ring assembly, turn nut clockwise as far as possible.
c. Using wrench, turn fitting into port until the washer touches the port spot face. Continue turning fitting until washer touches thread nearest wrench pad.
d. Back off fitting counterclockwise not exceeding one revolution until it is oriented in the correct position.
e. Place wrench on the wrench pad of fitting to prevent fitting from turning, and See "Fittings Torque Values" on page 27 for proper torque value.

Install Depth Control Valve

Refer to Figure 22

116. Thread elbow (adjustable stud) fitting ② into rear port of depth stop valve ①. Thread straight (non-adjustable stud) fittings ③ into right port of depth control valve ①.

Tighten ORB fittings, See "Install Rebound Valve and O-Ring Fittings" on page 18.
Install 3-Section Double Tee Block

Refer to Figure 23

117. Thread elbow (adjustable stud) fitting ② into rear ports of double tee block ①. Thread straight (non-adjustable stud) fittings ③ into left and right ports of double tee block ①.

 Tighten ORB fittings, See “Install Rebound Valve and O-Ring Fittings” on page 18.

Install 5-Section Double Tee Block

Refer to Figure 24

118. Thread elbow (adjustable stud) fitting ② into rear and front ports of double tee blocks ①. Thread straight (non-adjustable stud) fittings ③ into left and right ports of double tee block ①.

119. Fasten MJIC tee's ④ between hoses as shown.

 Tighten ORB fittings, See “Install JIC Fittings” on page 20 for proper installation.

 Tighten ORB fittings, See “Install Rebound Valve and O-Ring Fittings” on page 18

Install Hose Handles

Refer to Figure 25

 Hose handles are color coded. See “Hydraulic Hose Hookup” on page 21 for proper placement on hoses.

120. Install fittings ② to end of hoses ① running to front of hitch. Attach poppet fittings ③ to fittings ②.

121. Tighten ORB fittings, See “Install Rebound Valve and O-Ring Fittings” on page 18

122. Align the grooves in the front of the hose handles ④ to the back two ribs of fittings ② as shown and install the self threading screws ⑤ through holes.

123. Route hoses as shown in layout section in “Operator’s Manual”.

---

Insert diagrams as described in the text.
Install JIC Fittings

Refer to Figure 26

124. Install JIC female hose (1) to male fitting.

125. When the JIC hoses are routed, follow the following procedure for hooking up and tightening.

   a. Inspect for possible contamination or damage from shipping or handling. Sealing surface should be smooth. Annular tool marks of (100μin) concentric with thread permissible.

   b. Lubricate the threads and the entire surface of the cone with hydraulic fluid or a light lubricant.

   c. Align mating components for hand connection and turn flare nut until sealing surfaces make full contact.

   d. Torque nut to the values shown in “Torque Value Chart” page 23. If a wrench pad is provided next to nut, place a second wrench on pad to prevent flare from rotating while being torqued.

   e. When torquing nut onto a straight flared fitting, it may be necessary to also place a wrench on the flared fitting wrench pad to prevent it from turning during assembly.

126. Alternate Assembly Method for JIC.

   a. If torqued method not possible, follow steps a-c (step 166), then proceed to the steps below.

   b. Lightly wrench tighten the nut until there is firm resistance.

   c. Place a wrench on wrench pad next to nut as near the 6 o’clock position as possible.

   d. Place second wrench on nut as near the 3 o’clock position as possible.

   e. Turn nut clockwise to no less than the 4 o’clock position and no more than the 6 o’clock position. Required rotation generally decreases as size increases.
Attach Hose Clamps and Hose wraps

Refer to Figure 27

127. When all the hoses are hooked up and tightened properly, put hose clamps on hoses as shown.
128. Install hose wraps on hoses as needed.

Be sure and get hoses and light wiring harness fastened properly so they do not drag. Check to be sure there is enough slack in hinge area when folding machine the first time.

Hydraulic Hose Hookup

129. Great Plains hydraulic hoses are color coded to help you hookup hoses to your tractor outlets. Hoses that go to the same remote valve are marked with the same color.

<table>
<thead>
<tr>
<th>Color</th>
<th>Hydraulic Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>Lift (2 hoses)</td>
</tr>
<tr>
<td>Green</td>
<td>Fold (2 hoses)</td>
</tr>
</tbody>
</table>

**WARNING**

**High Pressure Fluid Hazard:**
Relieve pressure before disconnecting hydraulic lines. Use paper or cardboard, NOT BODY PARTS, to check for leaks. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Escaping fluid under pressure can have sufficient pressure to penetrate the skin causing serious injury. If an accident occurs, seek immediate medical assistance from a physician familiar with this type of injury. Only trained personnel should work on system hydraulics.

Hose Handles

Refer to Figure 28

130. To distinguish hoses on the same hydraulic circuit, refer to hose handles. The hose under an extended-cylinder symbol feeds a cylinder base end. The hose under a retracted-cylinder symbol feeds a cylinder rod end.
131. Once all hoses are tightened, hook hoses to tractor
Purging Hydraulic System

Refer to Figure 29

132. Charge the lift system first. Extend the lift cylinders (black handles) until the center section is fully raised. Remove the cylinder transport locks. The wings will not start to raise until the center cylinders are fully extended and the master cylinders begin to bypass oil through the rephasing ports, to the wing cylinders. Watch for leaks and re-tighten fittings if necessary. Continue to pump oil to the lift system until the wing cylinders are also fully extended. At this point, reverse the flow and lower the unit to the ground, retracting all cylinders. Raise and lower the unit several times to purge air from the system.

133. You may now charge the fold system. Before charging the fold cylinders (green ends), make sure the rod end of the cylinders are un-pinned and block is under cylinders as shown on rear cylinders, so that when the rod is extended, it will clear the wing fold brackets. Extend the fold cylinders (green ends) completely and then close them. Extend and retract the cylinders several times to purge air from the system. Now the cylinders may be extended far enough to be connected to the wing fold brackets.

134. Remove wood blocks and install 1 x 7 Gr. 8 special thread bolts, 1 flat washers and 1 top lock nut to rod end of inside wing cylinders and slot in fold bracket.

Tighten 1 x 7 Gr. 8 special thread bolt down to where there is 1/16” to 1/8” gap. Be sure bolt will still turn freely.

135. Remove wood blocks and install 1 x 7 hinge pins, 1 flat washers, 1 3/4 rollers and 3/8 x 2 roll pins to base end of outer wing cylinders and rocker.
Light Assembly

Refer to Figure 30

136. Route light harness 30’ lead ① from front of hitch (tractor plug to front), along same route as hydraulic hose (fasten in same clamps and hose wraps as hoses). Plug one end of enhance light harness ② to small end of light harness 30’ lead ①. Plug bigger end of wishbone light harness ③ into other end of enhance light module ②. Route other ends over towards (marked left and right) the light mounting brackets as shown.

137. Mount red lamp lights ④ to top of light mounting brackets, with 1/4 x 1 hex bolts ⑤ and 1/4 lock nuts.

138. Mount amber lamp lights ⑥ to top of light brackets with 1/4 x 1 hex bolts ⑤ and 1/4 lock nuts.

139. Tighten all bolts to specs. Be sure and get all wiring harnesses fastened up securely with hose wraps or clamps (if routed close to hydraulic hoses) or use cable ties ⑦.

Install Rear Hitch (optional)

Refer to Figure 31

The rear tow hitch will be shipped with big components banded together and bolts will be in a box. Carefully un-band the components.

140. Attach left ② and right ① rear hitch arms, rear hitch truss ④, rear truss support ⑤ to center frame using 5/8 x 1 1/2 bolts ⑥, 5/8 x 3 1/32 x 5 1/2 u-bolts ⑦, secure with 5/8 lock washers and nuts.

Do not tighten any bolts until every thing is installed.

141. Now install the rear hitch frame ③ using 5/8 x 1 1/2 bolts ⑥, 5/8 x 4 1/32 x 4 1/4 u-bolts ⑧, secure with 5/8 lock washers and nuts.

142. The bolt on sleeve assembly with rigid or flex slide ⑨, may be fastened using 5/8 x 3 1/32 x 4 1/2 u-bolt ⑩, secure with 5/8 lock washers and nuts.

143. Tighten all bolts to specs, See “Torque Values Chart” on page 25.

144. If machine is equipped with optional rear hitch accessory kit may be installed as shown in “Parts Manual”.

145. Route hoses and light harness along hitch and frame with hose clamps and hose wraps, provided.

Be sure hoses and light harness is fastened securely so they don’t drag or get pinched.
Completing Setup

146. The decals may now be installed.

147. See appropriate pages for decals in the “Parts Manual” for decal placement.

148. To install new decals:

149. Clean the area on which the decal is to be placed.

150. Peel backing from decal. Press firmly on surface, being careful not to cause air bubbles under decal.

151. Slowly peel away top protective covering being careful not to pull decal from implement.

152. If machine has an optional finishing attachment, refer to the “Parts Manual” for parts break down, and attachment layout drawings of this manual.

153. Be sure to consult the operating instructions, “Operator’s Manual”, for the first time field adjustments before going to the field.
### Torque Values Chart

<table>
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<th>Bolt Head Identification</th>
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<td>1-12</td>
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<td>1-9/16</td>
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<td>1-13/16</td>
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<td>5/32-12</td>
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<table>
<thead>
<tr>
<th>Bolt Size</th>
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<td>mm x pitch</td>
<td>N-m</td>
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<td>Class 8.8</td>
<td>6</td>
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<tr>
<td>Class 10.9</td>
<td>9</td>
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</table>

### Notes:
- **a.** in-tpi = nominal thread diameter in inches-threads per inch
- **b.** N·m = newton-meters
- **c.** mm x pitch = nominal thread diameter in mm x thread pitch
- **d.** ft-lb = foot pounds

Torque tolerance +0%, -15% of torquing values. Unless otherwise specified use torque values listed above.
### Tire Inflation Chart

<table>
<thead>
<tr>
<th>Wheel Type</th>
<th>Tire Size</th>
<th>Inflation</th>
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</thead>
<tbody>
<tr>
<td>Gauge Wheel</td>
<td>9.5Lx15&quot; 8-Ply</td>
<td>44 psi 303 kPa</td>
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<tr>
<td>Transport/Center/Wing</td>
<td>9.5Lx15&quot; 8-Ply</td>
<td>44 psi 303 kPa</td>
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<tr>
<td>Transport/Center</td>
<td>11Lx15&quot; 12-Ply</td>
<td>52 psi 359 kPa</td>
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<tr>
<td>Transport/Center</td>
<td>11Lx15&quot; Load F</td>
<td>90 psi 621 kPa</td>
</tr>
<tr>
<td>Transport/Center</td>
<td>12.5L x 15&quot; F-Ply</td>
<td>90 psi 621 kPa</td>
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</tbody>
</table>

### Tire Warranty Information

All tires are warranted by the original manufacturer of the tire. Tire warranty information is found in the brochures included with your Operator's and Parts Manuals or online at the manufacturer's web sites listed below. For assistance or information, contact your nearest Authorized Farm Tire Retailer.

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Web site</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firestone</td>
<td><a href="http://www.firestoneag.com">www.firestoneag.com</a></td>
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<tr>
<td>Gleason</td>
<td><a href="http://www.gleasonwheel.com">www.gleasonwheel.com</a></td>
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<tr>
<td>Titan</td>
<td><a href="http://www.titan-intl.com">www.titan-intl.com</a></td>
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<tr>
<td>Galaxy</td>
<td><a href="http://www.atgtire.com">www.atgtire.com</a></td>
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<tr>
<td>BKT</td>
<td><a href="http://www.bkt-tire.com">www.bkt-tire.com</a></td>
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### Tires Chart

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>Center Frame</th>
<th>1st Wing</th>
<th>2nd Wing</th>
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<tr>
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<td>Tire Size</td>
<td>Qty</td>
<td>Tire Size</td>
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<td>8323 - 8328</td>
<td>9.5L–15 ply</td>
<td>4</td>
<td>9.5L–15 ply</td>
</tr>
<tr>
<td>8332 - 8336</td>
<td>11L-15 12 ply</td>
<td>4</td>
<td>9.5L–15 ply</td>
</tr>
<tr>
<td>8539 - 8548</td>
<td>11L-15 F ply</td>
<td>4</td>
<td>9.5L–15 ply</td>
</tr>
<tr>
<td>8551 - 8560</td>
<td>12.5L-15 F ply</td>
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<td>9.5L–15 ply</td>
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</table>

Models showing 4 tires per section have walking tandems on those sections.
Hydraulic Connectors and Torque

Refer to Figure 32 (a hypothetical fitting)

Leave any protective caps in place until immediately prior to making a connection.

- **NPT** - National Pipe Thread
  - Note tapered threads, no cone/flare, and no O-ring.
  - Apply liquid pipe sealant for hydraulic applications.
  - Do not use tape sealant, which can clog a filter and/or plug an orifice.

- **JIC** - Joint Industry Conference (SAE J514)
  - Note straight threads ① and the 37° cone ② on “M” fittings (or 37° flare on “F” fittings).
  - Use no sealants (tape or liquid) on JIC fittings.

- **ORB** - O-Ring Boss (SAE J514)
  - Note straight threads ③ and elastomer O-Ring ④.
  - Prior to installation, to prevent abrasion during tightening, lubricate O-Ring with clean hydraulic fluid.
  - Use no sealants (tape or liquid) on ORB fittings.
  - ORB fittings that need orientation, such as the ell depicted, also have a washer ⑤ and jam nut ⑥ (“adjustable thread port stud”). Back jam nut away from washer. Thread fitting into receptacle until O-Ring contacts seat. Unscrew fitting to desired orientation. Tighten jam nut to torque specification.

### Fittings Torque Values

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<th>N-m</th>
<th>Ft-Lbs</th>
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<td>1/4”-18 NPT</td>
<td>1.5-3.0 turns past finger tight</td>
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<td>-5</td>
<td>1/2”-20 JIC</td>
<td>19-20</td>
<td>14-15</td>
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<tr>
<td>-5</td>
<td>1/2”-20 ORB w/jam nut</td>
<td>12-16</td>
<td>9-12</td>
</tr>
<tr>
<td>-5</td>
<td>1/2”-20 ORB straight</td>
<td>19-26</td>
<td>14-19</td>
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<tr>
<td>-6</td>
<td>5/16”-18 JIC</td>
<td>24-27</td>
<td>18-20</td>
</tr>
<tr>
<td>-6</td>
<td>5/16”-18 ORB w/jam nut</td>
<td>16-22</td>
<td>12-16</td>
</tr>
<tr>
<td>-6</td>
<td>5/16”-18 ORB straight</td>
<td>24-33</td>
<td>18-24</td>
</tr>
<tr>
<td>-8</td>
<td>3/4”-16 ORB w/jam nut</td>
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<td>20-30</td>
</tr>
<tr>
<td>-8</td>
<td>3/4”-16 ORB straight</td>
<td>37-58</td>
<td>27-43</td>
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</tbody>
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3-Section Hydraulic Fold Layout
5-Section Hydraulic Lift Layout
5-Section Hydraulic Lift Layout
5-Section Hydraulic Fold Layout
5-Section Hydraulic Fold Layout
8323FCC Machine Layout
8328FCC Machine Layout
8332FCC Machine Layout
8336FCC Machine Layout

Note: Hoists, K-Tray, & Bell, are mounted on Y-Plant of Tube
8539FCC Machine Layout
8539FCC Machine Layout
8544FCC Machine Layout
8544FCC Machine Layout
8548FCC Machine Layout
8551FCC Machine Layout
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8544FCC S4T Spike Drag HR Layout
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8551FCC S4T Spike Drag HR Layout

Diagram of 8551FCC S4T Spike Drag HR Layout.
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8556FCC S4T Spike Drag HR Layout
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8332FCC S5T Spike Drag Layout
8336FCC S5T Spike Drag Layout
8539FCC S5T Spike Drag Layout
8539FCC S5T Spike Drag Layout
8544FCC S5T Spike Drag Layout
8544FCC S5T Spike Drag Layout
8548FCC S5T Spike Drag Layout
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8551FCC S5T Spike Drag Layout
8551FCC S5T Spike Drag Layout
8556FCC S5T Spike Drag Layout
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8560FCC S5T Spike Drag Layout
8560FCC S5T Spike Drag Layout
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8539FCC S3T Spike Drag w/Reel Layout
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8544FCC S3T Spike Drag w/Reel Layout
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8548FCC S3T Spike Drag w/Reel Layout
8551FCC S3T Spike Drag w/Reel Layout
8556FCC S3T Spike Drag w/Reel Layout
8556FCC S3T Spike Drag w/Reel Layout
8560FCC S3T Spike Drag w/Reel Layout
8560FCC S3T Spike Drag w/Reel Layout
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8328FCC CH4B Coil Tine Drag Layout
8332FCC CH4B Coil Tine Drag Layout
8336FCC CH4B Coil Tine Drag Layout

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8539FCC CH4B Coil Tine Drag Layout
8544FCC CH4B Coil Tine Drag Layout
8544FCC CH4B Coil Tine Drag Layout
8548FCC CH4B Coil Tine Drag Layout
8551FCC CH4B Coil Tine Drag Layout
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8556FCC CH4B Coil Tine Drag Layout
8556FCC CH4B Coil Tine Drag Layout
8560FCC CH4B Coil Tine Drag Layout
8560FCC CH4B Coil Tine Drag Layout
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8328FCC CH3A Coil Tine w/ Reel Drag Layout
8336FCC CH3A Coil Tine w/ Reel Drag Layout
8539FCC CH3A Coil Tine w/ Reel Drag Layout
8539FCC CH3A Coil Tine w/ Reel Drag Layout
8544FCC CH3A Coil Tine w/ Reel Drag Layout
8544FCC CH3A Coil Tine w/ Reel Drag Layout
8548FCC CH3A Coil Tine w/ Reel Drag Layout
8548FCC CH3A Coil Tine w/ Reel Drag Layout
8551FCC CH3A Coil Tine w/ Reel Drag Layout
8551FCC CH3A Coil Tine w/ Reel Drag Layout
8556FCC CH3A Coil Tine w/ Reel Drag Layout
8556FCC CH3A Coil Tine w/ Reel Drag Layout
8560FCC CH3A Coil Tine w/ Reel Drag Layout
8560FCC CH3A Coil Tine w/ Reel Drag Layout
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  8328FCC CH4B coil tine drag .... 99
  8328FCC machine .............................35
  8328FCC S3T spike drag w/reel .... 83
  8328FCC S4T spike drag HR .... 51
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<td>level bar</td>
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