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 8323-8560FCF 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 8323-8560FCF 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

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

Document Family

- 560-484E Assembly Manual
- 560-484Q Pre-Delivery Manual (this document)
- 560-484M Operator Manual
- 560-484P 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 machine.
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

The Field Cultivator will be shipped pre-assembled as shown.

- The Field Cultivator will be shipped with shipping stands that will not need to be returned to Great Plains.
- Wings will be connected to center frame and unfolded in field position.
- All hydraulics will be connected and purged.
- Shank mount assemblies will be attached to frames in proper locations.
- Shank assemblies will be shipped in a box on a pallet.
- Finishing attachments (if equipped), will be pre-assembled and banded to pallet.

Unloading

Be sure the truck is on level ground, preferably concrete.

Centering components:
The Field Cultivator is very heavy, be sure and use 2, 8000# fork trucks to unload machine. Be sure and center fork truck or chains (overhead hoist) on components so they won’t slide and cause injury.

Unload Smaller Items First

Unloading the Field Cultivator is a potentially dangerous operation.

Reduce risk and complications by first unloading
6. the finishing attachments
7. the misc. boxes
8. the Field Cultivator (described in the next section)

Unload Field Cultivator

9. Place these components well out of the maneuvering area needed for unloading the Field Cultivator.
10. Double-check that all chains and tie-down straps have been released and stowed.
11. Set parking brake on trailer tractor.
12. On some models you will need to hook the machine up to a hydraulic source and fold the machine completely in the transport position before removing from trailer.
13. Slowly lift the Field Cultivator off trailer bed using two fork lifts.
14. Stop lifting about 12” above the bed.
15. Have the truck driver slowly pull the trailer straight out from under the Field Cultivator.
16. Making sure to keep level from front to back and side to side, slowly lower the Field Cultivator.
17. Lower the Field Cultivator down until the shipping stands are about 12” off ground.
18. Remove shipping stands.
19. Slowly lower Field Cultivator until it resting on the center transport tires and sweeps.

**Unpacking Boxes**

Position boxes in area that you can maneuver components up to machine to assembly.

20. Carefully remove banding from boxes.
21. Carefully remove banding from finishing reels.
22. Locate and identify all components before assembling.

**Further Assistance**

Great Plains Manufacturing, Inc. wants you to be satisfied with your new Field Cultivator. 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 Hitch Assembly

Refer to Figure 3

23. Attach hitch assembly 1 to brace bar with 1\(\frac{1}{4}\) flat washers 2 (one on outside of hitch, both sides), 1\(\frac{1}{4}\) Gr. 8 hex bolt 3 and 1\(\frac{1}{4}\) top lock nut.

24. Attach hitch jack 4 to front jack tube as shown to support front of tongue.

25. Route 30’ light harness 5 and hydraulic hoses 6 (that are rolled up on front of brace bar), along hitch assembly (close to threaded blocks) as shown. Secure with stackable hose clamps 7, 5/16 x 2 hex bolts 8 for three clamps, 5/16 x 1\(\frac{1}{4}\) for two clamps or 5/16 x 5/8 for one clamp) and 5/16 lock washers.

Position hoses in clamps to where they have enough slack to go around ears on hitch and won’t get pinch when hitch pivots when machine is raised up and down.

26. Fasten hose wrap 9 around light harness and hoses as shown.

27. Bolts may be tightened to specs, See “Torque Values Chart” on page 12.

Install K-Flex Shanks

Refer to Figure 4

28. If machine is equipped with magnum shanks, See “Install Magnum Shanks” on page 8.

29. The shank mounts will be shipped in correct location from factory. If something got moved during shipping, go to layout section of “Operator’s Manual” for proper placement.

30. Locate shank assemblies from misc. box and remove the 5/8 x 1\(\frac{1}{4}\) bolt 1 from shank assembly 2.

31. Slide shank assembly 2 through slot in shank mount 3 and align holes as shown below.

32. Re-attach 5/8 x 1\(\frac{1}{4}\) bolt 1, secure with 5/8 lock nut.

33. Bolt 1 may be tightened to specs, See “Torque Values Chart” on page 12.

34. Repeat same procedure for rest of shanks.
Install Magnum Shanks

Refer to Figure 5

35. The shank mounts will be shipped in correct location from factory. If something got moved during shipping, go to the layout section of “Operator’s Manual” for proper placement.

36. The $\frac{1}{2} \times 1\frac{1}{2}$ bolt ① will need loosened clear up. The 3/4 hex jam nut ⑤ should be shipped a little loose so the shank cradle can be pivoted to install the $\frac{5}{8} \times 1\frac{3}{4}$ bolt ②.

37. Locate shank assemblies from misc. box and remove the $\frac{5}{8} \times 1\frac{3}{4}$ bolt ③ from shank assembly ④.

38. Slide shank assembly ③ through shank cradle in shank mount ④ and align holes as shown below.

39. Re-attach $\frac{5}{8} \times 1\frac{3}{4}$ bolt ②, secure with $\frac{5}{8}$ lock nut.

40. Bolt ② may be tightened to specs. See “Torque Values Chart” on page 12.

41. Repeat same procedure for rest of shanks.

Install Gauge Wheel

Refer to Figure 6

42. Some models will be shipped without the gauge wheels installed.

43. Start by installing the wheel arm mount ① to the plates on wing frame with $\frac{5}{8} \times 2$ hex bolts ②, $\frac{5}{8}$ lock washers and $\frac{5}{8}$ nuts.

44. Slide screw jack ③ down through the wheel arm mount plate, secure with $\frac{1}{2} \times 1\frac{1}{4}$ hex bolts and $\frac{1}{2}$ top lock nuts.

45. Slide the spindle receiver ⑤ inside the wheel arm mount, align holes, secure with $\frac{3}{4} \times 4$ hex bolt ⑥, $\frac{3}{4}$ lock washer and nut. Install two $\frac{5}{8} \times 1\frac{1}{4}$ hex bolts ⑦ to welded nuts on wheel arm mount.

46. Slide 6-bolt hub assembly ⑧ into spindle receiver ⑤, align holes, secure with $\frac{5}{16} \times 2\frac{13}{16}$ clevis pin ⑨ and $\frac{9}{16} \times 1$ cotter pin.

47. Attach the 9.5L x 15, 8 ply, wheel/tire assembly ⑩ to 6-bolt hub assembly and secure with $\frac{9}{16}$ lug nuts ⑪.

48. Tighten bolts to specs, See “Torque Values Chart” on page 12.
Install Caster Style Gauge Wheel

Refer to Figure 7

Some models will be shipped without the gauge wheels installed. Be sure and install the 1 x 5 1/2 pin as shown with roll pin in slot on outside of pivot mount. See “Tires Chart” on page 13, for proper tire sizes for tire/wheel assembly.

48. Start by installing the LH or RH caster wheel arm and top caster wheel arm to the brackets on frames with 1 x 5 1/2 gauge wheel pin, 7/8 flat washers and 7/8 lock nuts.

49. Fasten back side of turnbuckle assembly to LH or RH wing pull bar (level bar on center section), front side to lever to caster wheel arm with 1 x 3 11/16 clevis pins and 3/16 x 2 cotter pins.

50. Attach the pivot mount assembly to caster wheel arms, secure with 1 x 5 1/2 gauge wheel pins, 3/8 x 2 roll pins, 7/8 flat washers and 7/8 lock nuts.

51. Slide 6-bolt hub assembly into pivot mount assembly, align holes, secure with 5/16 x 3 hex bolt and 5/16 lock nut.

52. Attach the wheel/tire assembly to 6-bolt hub assembly and secure with 9 1/16 lug nuts.

53. Tighten bolts to specs, See “Torque Values Chart” on page 12.

See “Operator’s Manual” for proper adjustment of gauge wheel assembly.

Figure 7
Gauge Wheel (Caster Style)
Install Rear Hitch (optional)

Refer to Figure 8

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

54. 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 5/8 nuts.

- Do not tighten any bolts until every thing is installed.

55. Now install the rear hitch frame ⑧ 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 5/8 nuts.

56. 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 5/8 nuts.

57. Tighten all bolts to specs, See “Torque Values Chart” on page 12.

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

59. 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

60. If the Field Cultivator is equipped with an optional finishing attachment, refer to “Parts Manual” for parts breakdown.

61. Once the options are installed, fold the Field Cultivator to check for clearance and interferences. Slowly fold Field Cultivator while watching that hoses and wiring harnesses do not become pinched or kinked while watching for interferences.

Double check that all bolts are tightened to specs, See “Torque Values Chart” on page 12. Consult the operating instructions, “Operator’s Manual”, for the first time field adjustments before going to the field.
## Appendix - Reference Information

### Torque Values Chart

<table>
<thead>
<tr>
<th>Bolt Size</th>
<th>Bolt Head Identification</th>
<th>Bolt Size</th>
<th>Bolt Head Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>in-tpia</td>
<td>Grade 2</td>
<td>N-m</td>
<td>ft-lb</td>
</tr>
<tr>
<td>1/4-20</td>
<td>7.4</td>
<td>5.6</td>
<td>11</td>
</tr>
<tr>
<td>1/4-28</td>
<td>8.5</td>
<td>6</td>
<td>13</td>
</tr>
<tr>
<td>5/16-18</td>
<td>15</td>
<td>11</td>
<td>24</td>
</tr>
<tr>
<td>5/16-24</td>
<td>17</td>
<td>13</td>
<td>26</td>
</tr>
<tr>
<td>5/8-16</td>
<td>27</td>
<td>20</td>
<td>42</td>
</tr>
<tr>
<td>5/8-24</td>
<td>31</td>
<td>22</td>
<td>47</td>
</tr>
<tr>
<td>7/16-14</td>
<td>43</td>
<td>32</td>
<td>67</td>
</tr>
<tr>
<td>7/16-20</td>
<td>49</td>
<td>36</td>
<td>75</td>
</tr>
<tr>
<td>1/2-13</td>
<td>66</td>
<td>49</td>
<td>105</td>
</tr>
<tr>
<td>1/2-20</td>
<td>75</td>
<td>55</td>
<td>115</td>
</tr>
<tr>
<td>9/16-12</td>
<td>95</td>
<td>70</td>
<td>150</td>
</tr>
<tr>
<td>9/16-18</td>
<td>105</td>
<td>79</td>
<td>165</td>
</tr>
<tr>
<td>5/8-11</td>
<td>130</td>
<td>97</td>
<td>205</td>
</tr>
<tr>
<td>5/8-18</td>
<td>150</td>
<td>110</td>
<td>230</td>
</tr>
<tr>
<td>3/4-10</td>
<td>235</td>
<td>170</td>
<td>360</td>
</tr>
<tr>
<td>3/4-16</td>
<td>260</td>
<td>190</td>
<td>405</td>
</tr>
<tr>
<td>7/8-9</td>
<td>225</td>
<td>165</td>
<td>585</td>
</tr>
<tr>
<td>7/8-14</td>
<td>250</td>
<td>185</td>
<td>640</td>
</tr>
<tr>
<td>1-8</td>
<td>340</td>
<td>250</td>
<td>875</td>
</tr>
<tr>
<td>1-12</td>
<td>370</td>
<td>275</td>
<td>955</td>
</tr>
<tr>
<td>1 1/8-7</td>
<td>480</td>
<td>355</td>
<td>1080</td>
</tr>
<tr>
<td>1 1/8-12</td>
<td>540</td>
<td>395</td>
<td>1210</td>
</tr>
<tr>
<td>1 1/4-7</td>
<td>680</td>
<td>500</td>
<td>1520</td>
</tr>
<tr>
<td>1 1/4-12</td>
<td>750</td>
<td>555</td>
<td>1680</td>
</tr>
<tr>
<td>1 3/8-6</td>
<td>890</td>
<td>655</td>
<td>1990</td>
</tr>
<tr>
<td>1 3/8-12</td>
<td>1010</td>
<td>745</td>
<td>2270</td>
</tr>
<tr>
<td>1 1/2-6</td>
<td>1180</td>
<td>870</td>
<td>2640</td>
</tr>
<tr>
<td>1 1/2-12</td>
<td>1330</td>
<td>980</td>
<td>2970</td>
</tr>
</tbody>
</table>

* 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.

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Tire Inflation Chart

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

Manufacturer Web site
- Firestone: www.firestoneag.com
- Gleason: www.gleasonwheel.com
- Titan: www.titan-intl.com
- Galaxy: www.atgtire.com
- BKT: www.bkt-tire.com

Tires Chart

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>Tire Size</th>
<th>Qty</th>
<th>1st Wing</th>
<th>Qty</th>
<th>2nd Wing</th>
</tr>
</thead>
<tbody>
<tr>
<td>8323 - 8328</td>
<td>9.5L–15 8 ply</td>
<td>4</td>
<td>9.5L–15 8 ply</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>8332 - 8336</td>
<td>11L–15 12 ply</td>
<td>4</td>
<td>9.5L–15 8 ply</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>8539 - 8560</td>
<td>11L–15 F ply</td>
<td>4</td>
<td>9.5L–15 8 ply</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Gauge Wheel (Caster Style)

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>Tire Size</th>
<th>Qty</th>
<th>Wing Wheels</th>
</tr>
</thead>
<tbody>
<tr>
<td>8323 - 8328</td>
<td>11L–15 8 ply</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>8332 - 8548</td>
<td>11L–15 8 ply</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>8551 - 8560</td>
<td>11L–15 12 ply</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>
Hydraulic Connectors and Torque

Refer to Figure 9 (a hypothetical fitting)

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

NPT - National Pipe Thread
① Note tapered threads, no cone/flare, and no O-ring.
① 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)
② Note straight threads ④ and the 37° cone ⑤ on “M” fittings (or 37° flare on “F” fittings).
② Use no sealants (tape or liquid) on JIC fittings.

ORB - O-Ring Boss (SAE J514)
③ Note straight threads ⑤ and elastomer O-Ring ⑦.
③ Prior to installation, to prevent abrasion during tightening, lubricate O-Ring with clean hydraulic fluid.
③ Use no sealants (tape or liquid) on ORB fittings.

ORB fittings that need orientation, such as the ell depicted, also have a washer ⑧ and jam nut ⑩ (“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

<table>
<thead>
<tr>
<th>Dash Size</th>
<th>Fitting Type</th>
<th>N-m</th>
<th>Ft-Lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>-4</td>
<td>1/4-18 NPT</td>
<td>1.5-3.0 turns past finger tight</td>
<td></td>
</tr>
<tr>
<td>-5</td>
<td>1/2-20 JIC</td>
<td>19-20</td>
<td>14-15</td>
</tr>
<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>
</tr>
<tr>
<td>-6</td>
<td>9/16-18 JIC</td>
<td>24-27</td>
<td>18-20</td>
</tr>
<tr>
<td>-6</td>
<td>9/16-18 ORB w/jam nut</td>
<td>16-22</td>
<td>12-16</td>
</tr>
<tr>
<td>-6</td>
<td>9/16-18 ORB straight</td>
<td>24-33</td>
<td>18-24</td>
</tr>
<tr>
<td>-8</td>
<td>3/4-16 JIC</td>
<td>37-53</td>
<td>27-39</td>
</tr>
<tr>
<td>-8</td>
<td>3/4-16 ORB w/jam nut</td>
<td>27-41</td>
<td>20-30</td>
</tr>
<tr>
<td>-8</td>
<td>3/4-16 ORB straight</td>
<td>37-58</td>
<td>27-43</td>
</tr>
</tbody>
</table>
3-Section Hydraulic Lift Layout
5-Section Hydraulic Lift Layout

- Black Extend to V1 on Rebound Valve
- Black Retract to V2 on Rebound Valve
- Clamps
- Rebound Valve
- Depth Stop Valve
- CT to Depth Stop Valve
- Depth Stop Valve to Tee Block, Front Top Hole
- Rod End, Inner Wing Cylinder to Base End, Outer Wing Cylinder
- Rod End, Center Frame Cylinder to Base End, Inner Wing Cylinder
- Top Holes Tee Block to Base End Cylinders
5-Section Hydraulic Lift Layout
5-Section Hydraulic Fold Layout

- Green Extend to Tee Block, Bottom Hole.
- Green Retract to Tee Block, Top Hole.
- Top Holes Tee Block to Rod End Cylinders.
- Bottom Holes Tee Block to Base End Cylinders.
- Tee to Tee Block, Top Holes.
- Tee to Tee Block, Bottom Holes.
5-Section Hydraulic Fold Layout
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8328FCF Machine Layout
8336FCF Machine Layout
8539FCF Machine Layout
8539FCF Machine Layout
8544FCF Machine Layout
8544FCF Machine Layout
8548FCF Machine Layout
8551FCF Machine Layout
8551FCF Machine Layout
8556FCF Machine Layout
8556FCF Machine Layout
8560FCF Machine Layout
8560FCF Machine Layout
8323FCF S4T Spike Drag HR Layout
8332FCF S4T Spike Drag HR Layout
8336FCF S4T Spike Drag HR Layout
8539FCF S4T Spike Drag HR Layout
8539FCF S4T Spike Drag HR Layout
8544FCF S4T Spike Drag HR Layout
8544FCF S4T Spike Drag HR Layout
8548FCF S4T Spike Drag HR Layout
8548FCF S4T Spike Drag HR Layout
8551FCF S4T Spike Drag HR Layout
8551FCF S4T Spike Drag HR Layout
8556FCF S4T Spike Drag HR Layout
8556FCF S4T Spike Drag HR Layout
8560FCF S4T Spike Drag HR Layout
8560FCF S4T Spike Drag HR Layout
8323FCF S5T Spike Drag Layout
8328FCF S5T Spike Drag Layout
8332FCF S5T Spike Drag Layout
8336FCF S5T Spike Drag Layout
8539FCF S5T Spike Drag Layout
8539FCF S5T Spike Drag Layout
8544FCF S5T Spike Drag Layout
8544FCF S5T Spike Drag Layout
8548FCF S5T Spike Drag Layout
8548FCF S5T Spike Drag Layout
8551FCF S5T Spike Drag Layout
8551FCF S5T Spike Drag Layout
8556FCF S5T Spike Drag Layout
8556FCF S5T Spike Drag Layout
8560FCF S5T Spike Drag Layout
8560FCF S5T Spike Drag Layout
8328FCF S3T Spike Drag w/Reel Layout
8332FCF S3T Spike Drag w/Reel Layout
8336FCF S3T Spike Drag w/Reel Layout
8539FCF S3T Spike Drag w/Reel Layout
8544FCF S3T Spike Drag w/Reel Layout
8544FCF S3T Spike Drag w/Reel Layout
8548FCF S3T Spike Drag w/Reel Layout
8548FCF S3T Spike Drag w/Reel Layout
8551FCF S3T Spike Drag w/Reel Layout
8551FCF S3T Spike Drag w/Reel Layout
8556FCF S3T Spike Drag w/Reel Layout
8556FCF S3T Spike Drag w/Reel Layout
8560FCF S3T Spike Drag w/Reel Layout
8560FCF S3T Spike Drag w/Reel Layout
8323FCF CH4B Coil Tine Drag Layout
8328FCF CH4B Coil Tine Drag Layout
8332FCF CH4B Coil Tine Drag Layout
8336FCF CH4B Coil Tine Drag Layout
8539FCF CH4B Coil Tine Drag Layout
8539FCF CH4B Coil Tine Drag Layout
8544FCF CH4B Coil Tine Drag Layout
8544FCF CH4B Coil Tine Drag Layout
8548FCF CH4B Coil Tine Drag Layout
8548FCF CH4B Coil Tine Drag Layout
8551FCF CH4B Coil Tine Drag Layout
8551FCF CH4B Coil Tine Drag Layout
8556FCF CH4B Coil Tine Drag Layout
8556FCF CH4B Coil Tine Drag Layout
8560FCF CH4B Coil Tine Drag Layout
8560FCF CH4B Coil Tine Drag Layout
8328FCF CH3A Coil Tine w/ Reel Drag Layout
8332FCF CH3A Coil Tine w/ Reel Drag Layout
8336FCF CH3A Coil Tine w/ Reel Drag Layout
8539FCF CH3A Coil Tine w/ Reel Drag Layout
8539FCF CH3A Coil Tine w/ Reel Drag Layout
8544FCF CH3A Coil Tine w/ Reel Drag Layout
8544FCF CH3A Coil Tine w/ Reel Drag Layout
8548FCF CH3A Coil Tine w/ Reel Drag Layout
8548FCF CH3A Coil Tine w/ Reel Drag Layout
8551FCF CH3A Coil Tine w/ Reel Drag Layout
8551FCF CH3A Coil Tine w/ Reel Drag Layout
8556FCF CH3A Coil Tine w/ Reel Drag Layout
8556FCF CH3A Coil Tine w/ Reel Drag Layout
8560FCF CH3A Coil Tine w/ Reel Drag Layout
8560FCF CH3A Coil Tine w/ Reel Drag Layout
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8348FCF CH4B coil tine w/reel .......... 85, 87
8348FCF CH5B coil tine w/reel .......... 85, 88
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8332FCF S5T spike Drag ..................54
8328FCF S3T spike drag w/reel ....... 71, 72
8328FCF CH3A coil tine w/reel drag ... 103
8328FCF CH4B coil tine drag ......... 87, 88
8328FCF CH5B coil tine w/reel ........ 104
8332FCF CH4B coil tine drag ......... 88, 89
8332FCF machine .........................24, 25
8332FCF S3T spike drag w/reel ...... 72, 73
8332FCF S4T spike Drag HR .......... 40, 41
8332FCF S5T spike Drag .................56
8336FCF CH3A coil tine w/reel drag ... 105
8336FCF CH4B coil tine drag ......... 89, 90
8336FCF machine .........................25, 26
8336FCF S4T spike Drag HR .......... 41, 42
8336FCF S5T spike Drag .................57
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8544FCF S4T spike Drag HR .......... 44, 45
8544FCF S5T spike Drag .................61
8548FCF CH3A coil tine w/reel drag ... 110, 111
8548FCF CH4B coil tine drag .......... 94, 95
8548FCF machine .........................30, 31
8548FCF CH3B coil tine w/reel ....... 85, 86
8548FCF CH4B coil tine w/reel ..........85, 87
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8551FCF S3T spike drag w/reel ....... 80, 81
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