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Operating Tips

- Read and understand this manual before operating your Rolling Finisher (RF), please call with any questions before operating. Damage may occur if cart is improperly used or operated.

- Always place the front roller in the aggressive mode (position A). The rear roller can be set in either aggressive or passive mode. See page 8 for more information.

- We recommend raising your RF cart before turning on each end. Turning with the rollers on the ground creates side stresses and could cause damage to the rollers, bearings, and / or frames.

- Always look over your RF cart before each operation. Look for loose bolts, frayed hoses, damaged parts, or flat tires.

- Always place all transport locks in place when transporting or storing your Rolling Finisher. This machine is equipped with locks for all lift cylinders.

- **Unfolding the machine**: for field operation, keep the transport locks on all lift cylinders (including gage wheels). Unfold the wings and then remove the transport locks. If the transport locks are removed, the base will drop to the ground first. The rollers on the wings will be forced into the ground and could cause damage to the rollers, bearings, and / or frames.

- **Folding the machine**: for transport, the transport locks do not have to be in place to fold the wings. The cart will first raise and than the wings will fold. It is recommended that the transport locks be in place before transporting.

- **Caution**: Remember to rotate the rear jack stand into transport position after attaching the RF cart to your implement. Damage to the jack or mounting hardware can result.

- Make sure hitch pin with keeper, hose connections, and safety lighting (optional) plugs are all connected properly before operating.
Safety

1. Never attempt to operate or adjust the harrow without reading this manual.
2. Never allow anyone to ride on the harrow or other attachments.
3. Drive slowly over rough ground.
4. Always slow down when turning.
5. Always support the Rolling Finisher when mounting or working on the cart or other attachments.
6. Never attempt to adjust the harrow while it is in motion.
7. Periodically check bolts and replace worn ones.
8. Be careful around teeth, tines, sweeps, and blades; they get sharper with wear.
9. Periodically check tires for wear and proper inflation.
   a. 7.60-15 8 ply 52 psi max
   b. 9.5L-15 8 ply 44 psi max
10. Hydraulics:
    a. When installing hydraulic hose, make sure all connections are tight and cylinders are full of hydraulic oil.
    b. Relieve pressure in hydraulic lines before uncoupling hoses from source.
    c. Check for and correct all points of abrasion of hydraulic hose. Do not use a partially damaged hose.

Pre-Assembly Instructions

1. All references to right hand and left-hand sides are determined by facing the implement from the rear.
2. Check your packing lists and report any missing parts within 30 days.
3. Lubricate all moving parts and bearings as recommended.
4. Follow assembly instructions in the order shown.
5. This setup & owners manual should be given to the owner for their reference.

Recommended Torque Specifications

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<tr>
<th>THREAD SIZE</th>
<th>FT-LBS</th>
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<tr>
<td>1/4&quot;-20</td>
<td>9 - 11</td>
<td>12 - 15</td>
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<td>3/8&quot;-16</td>
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<td>270 - 324</td>
<td>366 - 439</td>
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<tr>
<td>1&quot;-8</td>
<td>580 - 696</td>
<td>787 - 944</td>
</tr>
</tbody>
</table>

The above specifications apply to SAE Grade 5 Fasteners.
Rolling Finisher - Maintaining

Adjusting the Clevis Height

*Major* – Remove the two 3/4"-10 x 6" hex cap bolts and pull the telescoping hitch out and rotate 180°. Replace the 3/4" bolts and tighten. The clevis will also have to be rotated.

*Minor* – Remove the two 3/4" hitch bolts and move the clevis up or down. Replace the bolts.

Adjusting the Hitch Length

Loosen the two 3/4"-10 x 7" hex cap bolts and slide the telescoping hitch in or out to the desired length. Replace the 3/4" bolts and tighten. *(The proper hitch length is 1/2 of the leading implement width.)*

Lubrication

Use SAE Multi Purpose Grease

1. Transport axle (2 locations) - Every 15 hours
   Zerk located inside the upper part of the wheel arm at the pivot pin.
2. Gage wheel axle - optional (2 locations) - Every 15 hours
   Zerk located inside the upper part of the wheel arm at the pivot pin.
3. Front and Rear Wing Hinge (4 locations) - Every 15 hours
   Zerk located on the wing side of the hinge.
4. Transport & gage wheel bearings - Once a year or 50 hours
   Raise the tires off the ground and check for end play. To eliminate, remove dust cap and cotter pin. Tighten slotted nuts until there is noticeable resistance and back off one slot. Replace cotter pin and dust cap.
5. Harrow attachments - refer to the proper section of this manual.
Single Bar Harrow - Maintaining

Adjusting Harrow Height
The harrow mounting arm height is fixed. The harrow can be angled back to adjust the depth the teeth penetrate the soil.

Adjusting Spring Tension
Use the 5/16” snap pear link to adjust the chain to the desired length (remove any twist in the chain). Refer to the photo below.

Pinning the Harrow Up
Remove the 1/2” x 5” clevis pin from behind the top part of the mounting arm and place the chain in the last link. Pull the harrow up and place the pin in the front hole. This will hold the harrow up and off the ground in the field. Refer to the photo below.

Refer to this photo for harrow adjustments. Angled Tooth Harrow shown.
Double Roller Harrow - Maintaining

Adjusting the Roller Height

*Front Roller* – The front roller has three height adjustments. This will change the height relationship between the two rollers. Loosen the two 5/8"-11 x 4 1/2", remove the front bolt. Adjust to desired height and replace the bolt. Tighten both bolts.

*Rear Roller* – The rear roller is fixed and is not adjustable.

Adjusting Roller Aggression

*Position A* - Aggressive Mode produces maximum soil shattering.

*Position B* - Passive Mode provides a soil firming action.

The front roller should always be placed in the Position A.

Adjusting the Spring Down Pressure

The spring has no adjustment, the weight of the cart preloads the springs.

Lubrication

Use #2 multi purpose lithium grease on bearings at least once a season or every 150 hours. Pump grease in slowly until old grease and dirt are forced out around seals. It is best to lubricate bearings just prior to prolonged storage.

Refer to this photo for roller adjustments.
Rolling Finisher - Assembly

Base / Axle Instructions (Diagram page 15)

1. The first step is to identify the proper parts to assemble this section of the cart. Set the base on saw horses or similar supports.  
   **Note:** The axle ears face the front of the cart.

2. Attach the axle assembly to the base. Use the (2) axle hinge pins, 1”-14 slotted hex nuts, and 3/16” x 2” cotter pins to secure the axle to the base. Secure the axle pins to the hinge ears with a 3/8”-16 x 1 1/4” hex cap bolt with locknut.  
   **Note:** The ears on the lower wheel arms should be pointed to the front.

3. Pin the 3” x 8” cylinders onto the cart. Use the standard pins and clips supplied with the cylinder. Open hydraulic ports on cylinders to relieve pressure. Extend the cylinders out, pin to the ear and place the cylinder locks over the cylinder rods. Use the 1/2” x 2 1/2” clevis pin and bow-tie keeper clip to secure locks in place.  
   **Note:** The hydraulic ports on cylinders must face out.

4. Place the (4) hub and spindle assemblies on the wheel arms. Use the 1/2”-13 x 3" hex cap bolt with locknut to secure the spindle into the spindle tube. Attach the four tire assemblies to the hubs using 6 hub bolts.

5. Bolt the jack stand mount to the base. Use the (2) 5/8”-11 x 3 1/2” hex cap bolt, (4) 1/2”-13 x 3 1/2” hex cap bolt, (2) back plates, lock washers and nuts to secure assembly to the base. Bolt the 5000# jack stand to the jack stand riser. Use a 5/8”-11 x 3 1/2” hex cap bolt and lock nut to secure the jack stand to the riser. Use the 5/8” pin supplied with the jack stand to pin the jack stand riser to the jack stand mount. Use the 1/4”-20 x 1 1/4” bolt, nut, lock washer, and flat washer to attach the chain to the jack stand riser.  
   **Note:** Mount jack stand assembly right of center on base.

6. **Flat Fold** - Place the (2) wing stand mounts on the base. Use (1) 1/2”-13 x 3 1/2” hex cap bolt, lock washer, and nut. The stands should be placed so that they catch the ends of the wings.  
   **Stack Fold** - Place the short wing stand mount on the LH side of the base. Use (1) 1/2”-13 x 3 1/2” hex cap bolt, lock washer, and nut. This stand should be placed so that it catches the end of the LH wing. The longer of the stands is for the RH stack fold wing. Bolt the stand to the hole closed to the center of the “RF” Cart. Use (1) 3/4”-10 x 3 1/2” hex cap bolt, locknut. Bolt the (2) supports to the stand and base using (2) 3/4”-10 x 3 1/2” hex cap bolts, locknuts.  
   **Note:** The wing stands on the stack-fold machines are not adjustable.
Base / A-Frame Instructions (Diagram page 17)

7. Next, the “A” frame can be attached to the base. Use (12) 5/8”-11 x 1 3/4" hex cap bolts, lock washers, and nuts to attach the “A” frame to the base. The “A” frame matches up to plates on the base. The short brace on the rear of the A-frame will be located the bottom when mounted properly.

8. Slide the hitch assembly into the “A” frame assembly. Use (2) 3/4”-10 x 7” hex cap bolts and lock nuts to secure the hitch in the “A” frame. The hitch length is measured from the hitch pin to the front of the transport tires.
   **Note 1:** The proper hitch length is equal to 1/2 of the implement width.
   **Note 2:** The plates on the front of the hitch should be offset down. If more hitch height is needed the hitch can be rotated 180°.

9. Bolt the clevis hitch assembly in to the hitch. Use (2) 3/4”-10 x 6” hex cap bolts and lock nuts. Bolt the hose holder on with 5/8”-11 x 2” hex cap bolt, flat washer and locknut. Slide the large ring of the safety chain over the threaded bushing on the hitch plate. Use the cap, 3/4”-10 x 1 1/2” hex cap bolt and lock washer to secure.

Wing Instructions (Diagram page 19)

10. Attach the wing assembly to the base. Use the (2) wing hinge pins, 1”-14 slotted hex nuts, and 3/16” x 2” cotter pins to secure the wing to the base. Secure the wing pins to the hinge ears with a 3/8”-16 x 1 1/4” hex cap bolt with locknut.

11. Attach the 4” or 4 1/2” x 16” cylinders to the ears on the base frame ear. Use the standard cylinder pin and clip supplied with each cylinder. The cylinder with plastic stop is for the RH side and is only used with stack fold wings.

12. Rotate the (2) linkage straps, (2) 1” UHMW plastic washers and place them on the wing frame ear as shown in diagram. Use a 1” pin with (2) machine bushings and 1/4” x 2” cotter pins to hold in place.
   **Note:** The (2) 1” UHMW plastic washers should be placed between the linkage straps and the wing frame ear.

13. Open hydraulic ports on cylinders to relieve pressure. Extend cylinder rod out far enough to pin cylinder clevis to upper wing lever hole. Use the standard pins and clips supplied with cylinder.
   **Note:** The wings will be self supporting.
Optional Gage Wheel Instructions (Diagram page 21)

14. Next, bolt the gauge wheel mount assembly and back plate assembly to wing extension. Use (4) 5/8”-11 x 3 1/2” hex cap bolts, lock washers and nuts. Location for gauge wheel mounting varies from cart to cart. The following are **maximum distances** from the center of the wing hinge pin.

   12’ Base - 66”   14’ Base - 89”   16’ Base - 112”

15. Attach the gauge wheel arm assembly to the gauge wheel mount. Use the axle hinge pins, 1”-14 slotted hex nut, and 3/16” x 2” cotter pin to secure the arm to the mount assembly. Secure the axle pins to the hinge ears with a 3/8”-16 x 1 1/4” hex cap bolt with locknut.
   **Note:** The ears on the gauge wheel arms should be pointed to the front.

16. Pin the 3” x 8” cylinders onto the cart. Use the standard pins and clips supplied with the cylinder. Open hydraulic ports on cylinders to relieve pressure. Extend the cylinders out, pin to the ear and place the cylinder locks over the cylinder rods. Use the 1/2” x 2 1/2” clevis pin and bow-tie keeper clip to secure locks in place.
   **Note:** The hydraulic ports on cylinders must face out.

17. Place the hub and spindle assemblies on the wheel arms. Use the 1/2”-13 x 3” hex cap bolt with locknut to secure the spindle into the spindle tube. Attach the tire assemblies to the hubs using 6 hub bolts.

   Torque all bolts to specifications, refer to page 5. Periodically check for loose or worn bolts. Replace as necessary.

**Hose Kit Layout - See Appendix page 43**

18. The majority of the cart should be assembled. Locate and separate all hoses and fittings from kit. Follow the proper hose kit diagram that describes the base size and fold option on your cart. The 3” x 8” hydraulic cylinders are used for the lift system. The 4” or 4 1/2” x 16” hydraulic cylinders are used for the wing fold system. Run the pressure and return lines through the L.H. “A” frame tube. After hoses are placed on the cart and tightened to the correct cylinders, bolt hose holder clamps to hose holder bases. Use a 3/8”-16 x 1 1/4” hex cap bolt to secure clamp to base.
1 Bar Harrow Instructions (Diagram page 23)

1. Refer to the harrow layout section of this manual for proper location.

2. Place the zinc coated bushings in the harrow arms and attach the arms in the proper holes on the frame. Use a 5/8”-11 x 4 1/2” hex cap bolt and lock nut to secure the arm in place. **Note:** If there are wing extensions on your cart, the bolts for these areas need to be a 1/2” longer.

3. Place the tension spring eyelet in proper mounting hole location. Use a 5/8”-11 x 4 1/2” hex cap bolt and lock nut to secure spring in place. Next attach the chain of the tension spring to the slot in the harrow arm (*remove any twist in the chain*). Use a 5/16” snap pear link to secure the chain in the slot.

4. Next, lay the harrow sections under the harrow arm. The sections are tagged for proper location. Refer to the harrow layout section of this manual for proper harrow section location.

5. **Angled Tooth Harrow** - Attach the harrow section to harrow mounting arms. Use (2) 1/2-13” x 4” x 3” u-bolts, flat washers, lock washers and nuts to hold (formed channel) harrow to arms. **Note:** Replace one of the end teeth at the center of the cart with the Y-tooth that was packed separate. Use the original bolts.

**Straight Tooth Harrow** - Attach the harrow section to harrow mounting arms. Use (2) 5/8-11” x 1 1/4” hex cap bolts, flat washers, lock washers and nuts to hold (angle iron) harrow to arms.

**Coil Tine Harrow** - Center the tine bars on the harrow mounting arms. Use (2) 3/8-16” x 1 1/2” x 2 1/14” u-bolts, lock washers and nuts to hold tine bar to arms. Slide the tine clamp onto the coil tine. Place the coil tine and clamp assembly onto the tine bars. Use (1) 3/8”-16 x 3 1/2” hex cap bolt, tine retainer washer, lock washer, & nut. Center the tine finger of the first coil tine and clamp assembly 2 1/2” from the end of the tine bar. Place the rest of the tines on 9” centers.

6. Refer to the harrow layout section of this manual for proper harrow location of bolts and u-bolts. Start with base sections first, and centered them under the cart. Tighten to secure harrow.

Torque all bolts to specifications, refer to page 5. Periodically check for loose or worn bolts. Replace as necessary.
Double Roller Harrow - Mounting

Double Roller Harrow Instructions (Diagram page 25)

Roller harrows are not recommended in rocky conditions!

1. The roller harrow sections have the bearings factory installed. Refer to the harrow layout section of this manual for proper harrow section location.

2. The Double Roller Arms have been pre-assembled at the factory.

3. Place a zinc coated bushing in the roller mounting and mount to the rear of the cart. Use a 5/8"-11 x 4 1/2" hex cap bolt and lock nut. Attach the spring assembly to the rear of the cart. Use a 5/8"-11 x 4 1/2" hex cap bolt and lock nut. 
   **Note:** If there are wing extensions on your cart, the bolts for these areas are a 1/2" longer.

4. Attach the roller frame to the roller sections. Use the 1"-8 x 3 3/4" hex cap bolt with bearing spacer, lock washer, and nut. 
   **Note:** Place the 1" flat washer in the "Gap" between the bearing and the frame spacer block as needed. Refer to page 25.

5. Lay the roller sections out behind the harrow cart. Attach the roller sections to the roller mounting arms and the side plate assemblies. Use the 1/2"-13 x 2" x 3" u-bolt with lock washer and nut. Refer to the harrow layout section of this manual for proper harrow section location. 
   **Note 1:** Refer to page 7 for roller aggression. 
   **Note 2:** The front roller should always be placed in the Position A.

6. Bolt SMV sign and owner’s manual canister to bracket using (3) 1/4"-20 x 1 1/4" hex cap bolts, lock washers and nuts. U-bolt SMV bracket to roller frame on rear of cart. Use a 1/2" x 2" x 3" u-bolt, lock washers and nuts to secure bracket to the roller frame.
   **Note:** S.M.V sign must be in center or left-of-center on the “RF” Cart.

7. Place all product and warning decals in proper locations on roller cart.

   Torque all bolts to specifications, refer to page 5. Periodically check for loose or worn bolts. Replace as necessary.
<table>
<thead>
<tr>
<th>Item</th>
<th>Part Number</th>
<th>Description</th>
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<tr>
<td>1</td>
<td>RF-1003</td>
<td>Base Axle Assembly</td>
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<tr>
<td>2</td>
<td>RF-1039</td>
<td>Jackstand Mount Weldment</td>
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<td>3</td>
<td>RF-1040</td>
<td>Jackstand Riser Weldment</td>
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<td>4</td>
<td>RF-1054</td>
<td>Flat Fold Wing Stand</td>
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<td>RF-1050</td>
<td>Wing Stand Weldment (12ft &amp; 14ft Base)</td>
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<td>RF-1051</td>
<td>Stack Fold Wing Stand (16ft Base)</td>
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<td>STD Spindle Nut</td>
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<td>3/8-16 UNC x 1 1/4&quot; Gr.5 Bolt</td>
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<td>RF-0035</td>
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<td>RF-0115</td>
<td>5/8-11 UNC x 3 1/2&quot; Gr.5 Bolt w/Lockwasher &amp; Nut</td>
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<td>22</td>
<td>RF-0113</td>
<td>1/2&quot;-20 x 1 1/4&quot; Hub Bolt</td>
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<td>23</td>
<td>RF-0043</td>
<td>Transport Lock Pin</td>
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<tr>
<td>24</td>
<td>RF-0044</td>
<td>Bow Tie Keeper Pin</td>
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<tr>
<td>25</td>
<td>RF-0045</td>
<td>1/2-13 UNC x 3&quot; Gr.5 Bolt w/ Locknut</td>
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<td>26</td>
<td>RF-0109</td>
<td>STD Dust Cap</td>
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<td>27</td>
<td>RF-0110</td>
<td>5000# Top Crank Jack Stand - Square Mnt</td>
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<tr>
<td>28</td>
<td>RF-0030</td>
<td>1/4-20 UNC x 2 3/4&quot; Gr.5 Bolt w/ Lockwasher &amp; Nut</td>
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<td>29</td>
<td>RF-0031</td>
<td>STD 6-Bolt Hub</td>
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<td>RF-0116</td>
<td>3/8-16 UNC x 3&quot; Gr.5 Bolt w/ Lockwasher &amp; Nut</td>
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<td>31</td>
<td>RF-0117</td>
<td>3/4-10 UNC x 3 1/2&quot; Gr.5 Bolt w/ Locknut</td>
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<td>RF-0118</td>
<td>1/2-13 UNC x 2 1/2&quot; Gr.5 Carriage Bolt</td>
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<tr>
<td>33</td>
<td>RF-0119</td>
<td>Valve Plate Weldment</td>
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</table>
Reflector 2 x 9 Yellow
Front Side Only

Decal- "FEMA"
Both Ends

Reflectors 2 x 9 Red
Backside Only

Decal- "Caution"
Transport Lock

Remove Pin & Chain From Jackstand Attach to Jackstand Mount

See Lower LH Corner

Serial # Location
## Parts Description - Base / Axle

<table>
<thead>
<tr>
<th>Item</th>
<th>Part Number</th>
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<td>RF-1085</td>
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<td>RF-1088</td>
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<td>14ft &amp; 16ft A-Frame Weldment</td>
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<td>RF-1091</td>
<td>12ft Base HD Telescoping Hitch Weldment</td>
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<td>RF-1087</td>
<td>14ft &amp; 16ft Base HD Telescoping Hitch Weldment</td>
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<td>RF-1041-AS</td>
<td>Hose Holder Rod Assembly w/ 3/16&quot; x 2&quot; Cotter Pin</td>
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<td>5</td>
<td>PUR-10001</td>
<td>CAT III Cast Hitch Assy</td>
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<td>PUR-00004</td>
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<td>5/8-11 UNC x 2&quot; GR. 5 Bolt w/ Washer &amp; Locknut</td>
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<td>11</td>
<td>RF-0127</td>
<td>Stack-Fold Hydraulic Valve</td>
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<td>RF-0168</td>
<td>R.H. Light Bracket</td>
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<td>L.H. Light Bracket</td>
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<td>14</td>
<td>EL-0004</td>
<td>R.H. Dual Light Box w/ Brake</td>
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<td>EL-0005</td>
<td>L.H. Dual Light Box w/ Brake</td>
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<td>15</td>
<td>RF-0097</td>
<td>Hose Holder Clamp</td>
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<td>3/8-16 UNC x 1 1/4&quot; Gr.5 Bolt</td>
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<td>17</td>
<td>RF-0121</td>
<td>SMV Bracket</td>
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<td>18</td>
<td>RF-0142</td>
<td>Owner’s Manual Canister</td>
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<td>19</td>
<td>RB-0025-AS</td>
<td>1/2-13 X 2&quot; X 3 1/2&quot; U-Bolt w/ Lockwasher &amp; Nut</td>
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<td>1/4-20 UNC x 1.25&quot; Gr.5 Bolt w/ Lockwasher &amp; Nut</td>
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<td>21</td>
<td>RF-0167</td>
<td>S.M.V. Sign</td>
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</table>
Parts Description - Base / A-Frame

Decal- "3500 Rolling Finisher" Both Sides

Decal- "Caution Transport Hazard" Both Sides

Reflector 2 x 9 Yellow Both Sides

SMV Sign

Light Kit

Red Lens Outside Rear

Use Existing Roller Arm Bolts to Mount
## Parts Description – Wing

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Part Name / Description</th>
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<td>1</td>
<td>RF-1004</td>
<td>LH 6ft Wing Assembly</td>
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<td>RF-1017</td>
<td>RH 6ft Wing Assembly</td>
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<td>RF-1031</td>
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<td>RF-1032</td>
<td>LH 5ft Wing Assembly</td>
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<td></td>
<td>RF-1033</td>
<td>RH 4ft Wing Assembly</td>
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<td></td>
<td>RF-1034</td>
<td>LH 4ft Wing Assembly</td>
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<td></td>
<td>RF-1035</td>
<td>RH 3ft Wing Assembly</td>
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<td>RF-1036</td>
<td>LH 3ft Wing Assembly (shown)</td>
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<td>2</td>
<td>RF-0048</td>
<td>Wing Pivot Lever</td>
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<td>RF-0044</td>
<td>Linkage Strap</td>
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<td>4A</td>
<td>RF-0110</td>
<td>4&quot; x 16&quot; Cylinder w/ Pins &amp; Clips</td>
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<td>RF-0134</td>
<td>4 1/2&quot; x 16&quot; Cylinder w/ Pins &amp; Clips</td>
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<td>4B</td>
<td>RF-1067</td>
<td>4&quot; x 16&quot; Cylinder w/ Pins, Clips, &amp; Plastic Stop (stack fold only)</td>
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<td>RF-1068</td>
<td>4 1/2&quot; x 16&quot; Cylinder w/ Pins, Clips, &amp; Plastic Stop (stack fold only)</td>
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<td>5</td>
<td>RF-0049</td>
<td>1” UHMW Plastic Washer</td>
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<td>RF-0050</td>
<td>1 1/4” UHMW Plastic Washer</td>
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<td>RF-0065-AS</td>
<td>1 1/4” Pivot Pin w/ (2) Flat washers &amp; Cotter Pins</td>
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<td>8</td>
<td>RF-0066-AS</td>
<td>1” Pivot Pin w/ (2) Machine Bushing &amp; Cotter Pins</td>
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<td>9</td>
<td>RF-1012-AS</td>
<td>Wing Hinge Pin Assembly w/ 1”-14 Hex Slotted Nut &amp; Cotter Pin</td>
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<td>3/8”-16 x 1 1/4” Gr. 5 Bolt w/ Locknut (stack fold only)</td>
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<td>5/8”-11 x 2” Gr. 5 Bolt w/ Jamb Nut (stack fold only)</td>
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## Parts Description – Wing Extension / Gage Wheel

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<td>RF-1042</td>
<td>LH 4ft Wing Extension Assembly (shown)</td>
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<td>RF-1043</td>
<td>LH 4.5ft Wing Extension Assembly</td>
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<td>RF-1044</td>
<td>LH 5ft Wing Extension Assembly</td>
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<td>RF-1045</td>
<td>RH 4ft Wing Extension Assembly</td>
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<td>RF-1046</td>
<td>RH 4.5ft Wing Extension Assembly</td>
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<td>RF-1047</td>
<td>RH 5ft Wing Extension Assembly</td>
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<td>RF-1010</td>
<td>LH Gage Wheel Arm Assembly (shown)</td>
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<td>RF-1011</td>
<td>RH Gage Wheel Arm Assembly</td>
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<td>4</td>
<td>RF-1009</td>
<td>Gage Wheel Mount Assembly</td>
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<td>5</td>
<td>RF-1013-AS</td>
<td>Axle Hinge Pin Assembly w/ 1&quot;-14 Hex Slotted Nut &amp; Cotter Pin</td>
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<td>RF-0108</td>
<td>3 x 8 Cylinder w/ Pins &amp; Clips</td>
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<td>RF-1049</td>
<td>Gage Wheel Back Plate Assembly</td>
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<td>RF-0031</td>
<td>Standard 6-Bolt Hub Spindle</td>
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<td>RF-0037</td>
<td>6-Bolt Spindle Seal (CR16289)</td>
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<td>RF-0038</td>
<td>6-Bolt Inner Bearing (JL69349)</td>
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<td>RF-0030</td>
<td>Standard 6-Bolt Hub (GKN#888)</td>
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<td>6-Bolt Outer Bearing (LM67048)</td>
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<td>RF-0040</td>
<td>6-Bolt Spindle Washer (GKN #913607)</td>
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<td>RF-0041</td>
<td>6-Bolt Spindle 5/32&quot; x 2&quot; Cotter Pin</td>
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<td>6-Bolt Spindle Nut (GKN #912952)</td>
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<td>RF-0043</td>
<td>6-Bolt Dust Cap (GKN #909905)</td>
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<td>RF-0029</td>
<td>7.60L-15 Tire</td>
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<td>Cylinder Transport Lock</td>
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<td>1/2&quot;-20 x 1 1/4&quot; Hub Bolt</td>
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<td>1/2&quot; x 2 1/2&quot; Clevis Pin</td>
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<td>Bow-Tie Keeper Clip</td>
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<td>1/2&quot;-13 x 3&quot; Gr. 5 Bolt w/ Locknut</td>
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## Parts Description – Single Bar Harrow

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<td>RF-0107</td>
<td>Spacer</td>
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<td>RF-0112</td>
<td>1/4&quot; Proof Adjustment Chain (11 Link)</td>
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<td>RF-0111</td>
<td>Tension Spring</td>
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<td>RTB-0035</td>
<td>3 1/2' Tool Bar – less 7 teeth – TB-3 1/2</td>
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<td>RTB-004</td>
<td>4' Tool Bar – less 8 teeth – TB-4</td>
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<td>RTB-0045</td>
<td>4 1/2' Tool Bar – less 9 teeth – TB-4 1/2</td>
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<td>RTB-005</td>
<td>5' Tool Bar – less 10 teeth – TB-5</td>
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<td>RTB-0055</td>
<td>5 1/2' Tool Bar – less 11 teeth – TB-5 1/2</td>
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<td>RTB-006</td>
<td>6' Tool Bar – less 12 teeth – TB-6</td>
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<td>RTB-0065</td>
<td>6 1/2' Tool Bar – less 13 teeth – TB-6 1/2</td>
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<td>RTB-010-AS</td>
<td>Regular Tooth (7/8&quot; Round X 13 1/4&quot; w/ bolts) – TB-10</td>
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<td>5/16&quot; Snap Pear Link</td>
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<td>RTB-020-AS</td>
<td>Center “Y” Tooth – TB-20</td>
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<td>Bow-Tie Keeper Clip</td>
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<td>1/2&quot; x 5&quot; Clevis Pin</td>
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<td>3'6&quot; Tooth Bar – less 5 teeth</td>
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<td>L-A0004</td>
<td>4'3&quot; Tooth Bar – less 6 teeth</td>
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<td>5' Tooth Bar – less 7 teeth</td>
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<td>5'9&quot; Tooth Bar – less 8 teeth</td>
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<td>11&quot; Spike Tooth</td>
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<td>“V” Shaped U-Bolt w/ (2) Locknuts</td>
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<td>3ft-6in Tine Bar (42&quot;)</td>
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<td>4ft-3in Tine Bar (51&quot;)</td>
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<td>5ft-9in Tine Bar (69&quot;)</td>
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<td>Top Spring Lower Mount Weldment</td>
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<td>RF-1014</td>
<td>Roller Arm Assembly</td>
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<td>5'9&quot; Roller Weldment</td>
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<td>HDRB-1010</td>
<td>6'6&quot; Roller Weldment</td>
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<td>RB-1055</td>
<td>Bearing Hex Nut Protector</td>
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<td>RB-0069-AS</td>
<td>Weed &amp; Rock Guard w/ Bolt and Locknut</td>
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<td>RB-1005</td>
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<td>1-8&quot; UNC x 3.75&quot; Bolt w/ Lock Washer &amp; Nut</td>
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<tr>
<td>18</td>
<td>RB-1006</td>
<td>3'6&quot; Frame Weldment</td>
</tr>
<tr>
<td>19</td>
<td>RB-1022</td>
<td>4'3&quot; Frame Weldment</td>
</tr>
<tr>
<td>20</td>
<td>RB-1007</td>
<td>5' Frame Weldment</td>
</tr>
<tr>
<td>21</td>
<td>RB-1023</td>
<td>5'9&quot; Frame Weldment</td>
</tr>
<tr>
<td>22</td>
<td>RB-1024</td>
<td>6'6&quot; Frame Weldment</td>
</tr>
<tr>
<td>23</td>
<td>RF-0236</td>
<td>LH Roller Bracket Weldment</td>
</tr>
<tr>
<td>24</td>
<td>RF-1024</td>
<td>RH Roller Bracket Weldment</td>
</tr>
<tr>
<td>25</td>
<td>RF-1023</td>
<td>Top Spring Side Plate</td>
</tr>
<tr>
<td>26</td>
<td>1/2&quot;-13 UNC x 1.5&quot; Gr.5 Bolt w/ Locknut</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>3/8&quot;-16 UNC x 1&quot;Gr.5 Bolt w/ Washer and Lock Washer</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>5/8&quot;-11 UNC x 5.5&quot; Gr.5 Bolt w/ Locknut</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>5/8-11 UNC x 4.5&quot; Gr.5 Bolt w/ Locknut</td>
<td></td>
</tr>
</tbody>
</table>
Snug 1"-8 Hex Cap Bolt on one Side.
Fill "Gap" with 1" flat washer on other side as needed.
Do to frame inconsistency the flat washer may or may not be needed.
Do not Force in the Flatwasher.
Layout - 12' Base (Standard)

11'9" Harrow on a 12' Base
Layout - 12' Base

13'3" Harrow on a 12' Base

NOTE: Base configuration will not work with wings.
Layout - 14' Base (Standard)

14'0" Harrow on a 14' Base

Bolt Harrow Sect. to Arm between 1st & 2nd Tooth

Angled Tooth 6'-6" Sect.,
Straight Tooth 6'-6" Sect.,
Spring Tooth 6'-6" Sect.-9 times

Angled Tooth 6'-6" Sect.,
Straight Tooth 6'-6" Sect.,
Spring Tooth 6'-6" Sect.-9 times

Bolt Harrow Sect. to Arm between 1st & 2nd Tooth
Layout - 16' Base (Standard)

16'4" Harrow on a 16' Base

- Bolt Harrow Sect. to Arm between 1st & 2nd Tooth
- Angled Tooth 5' Sect.
  Straight Tooth 5' Sect.
  Spring Tooth 5' Sect.-7 times

- Angled Tooth 4'6" Sect.
  Straight Tooth 5' Sect.
  Spring Tooth 5' Sect.-7 times

- Angled Tooth 5' Sect.
  Straight Tooth 5' Sect.
  Spring Tooth 5' Sect.-7 times

- Bolt Harrow Sect. to Arm between 1st & 2nd Tooth
- 12"
- 5'0" Roller Sections
- 16'4"
- 5'0" Roller Sections
- 12"
Layout - 16' Base

17'10" Harrow on a 16' Base

NOTE: Base configuration will not work with wings.
Layout - 3' Wing

19'8" Harrow on a 12' Base
21'11" Harrow on a 14' Base
24'2" Harrow on a 16' Base
Layout - 4' Wing

21'2" Harrow on a 12' Base
23'5" Harrow on a 14' Base
25'8" Harrow on a 16' Base
Layout - 5' Wing

22'8" Harrow on a 12' Base
24'11" Harrow on a 14' Base
27'2" Harrow on a 16' Base
Layout - 6' Wing

24'2" Harrow on a 12' Base
26'5" Harrow on a 14' Base
28'8" Harrow on a 16' Base

Bolt Harrow Sect, to Arm between 1st & 2nd Tooth

Angled Tooth 6' Sect,
Straight Tooth 5'-9" Sect,
Spring Tooth 5'-9" Sect, 8 tines

5'-9" Roller Sections
6'-6"
12"

Angled Tooth 6' Sect,
Straight Tooth 5'-9" Sect,
Spring Tooth 5'-9" Sect, 8 tines

Bolt Harrow Sect, to Arm between 1st & 2nd Tooth

5'-9" Roller Sections
6'-6"
Layout - 6' Wing

25'8" Harrow on a 12' Base
27'11" Harrow on a 14' Base
30'2" Harrow on a 16' Base

Bolt Harrow Sect. to Arm between 2nd & 3rd Tooth

Angled Tooth 6'-6" Sect.
Straight Tooth 6'-6" Sect.
Spring Tooth 6'-6" Sect., 9 lines

6'-6" Roller Sections

7'-3"

12"

Bolt Harrow Sect. to Arm between 2nd & 3rd Tooth

Angled Tooth 6'-6" Sect.
Straight Tooth 6'-6" Sect.
Spring Tooth 6'-6" Sect., 9 lines

6'-6" Roller Sections

7'-3"

12"
Layout - 3' Wing with 4' Stub

27'2" Harrow on a 12' Base
29'5" Harrow on a 14' Base
31'9" Harrow on a 16' Base

Bolt Harrow Sect. to Arm between 1st & 2nd Tooth

Angled Tooth 3'-6" Sect.
Straight Tooth 3'-6" Sect.
Spring Tooth 3'-6" Sect.-5 tines

Angled Tooth 3'-6" Sect.
Straight Tooth 3'-6" Sect.
Spring Tooth 3'-6" Sect.-5 tines

12"

12"

3'-6" Roller Sections

3'-6" Roller Sections

8'-0"
Layout - 4' Wing with 4' Stub

30'11" Harrow on a 14' Base
33'3" Harrow on a 16' Base

Bolt Harrow Sect. to Arm between 1st & 2nd Tooth

Angled Tooth 3'-6" Sect., Straight Tooth 3'-6" Sect., Spring Tooth 3'-6" Sect.-6 tines

Angled Tooth 4'-6" Sect., Straight Tooth 4'-3" Sect., Spring Tooth 4'-3" Sect.-6 tines

Angled Tooth 4'-6" Sect., Straight Tooth 4'-3" Sect., Spring Tooth 4'-3" Sect.-6 tines

Bolt Harrow Sect. to Arm between 1st & 2nd Tooth
Layout - 4' Wing with 4'6" Stub

32'5" Harrow on a 14' Base
34'9" Harrow on a 16' Base
Layout - 5' Wing with 4'6" Stub

33'11" Harrow on a 14' Base
36'3" Harrow on a 16' Base

Bolt Harrow Sect, to Arm between 1st & 2nd Tooth

Angled Tooth 4'-6" Sect.
Straight Tooth 4'-3" Sect.
Spring Tooth 4'-3" Sect., 6 times

5'-0" Roller Sections
12"

Angled Tooth 5' Sect.,
Straight Tooth 5' Sect.,
Straight Tooth 5' Sect., 6 times

4'-3" Roller Sections

Angled Tooth 5' Sect.,
Straight Tooth 5' Sect.,
Straight Tooth 5' Sect., 6 times

5'-0" Roller Sections
12"

Angled Tooth 4'-6" Sect.,
Straight Tooth 4'-3" Sect.,
Spring Tooth 4'-3" Sect., 6 times

4'-3" Roller Sections
12"

Bolt Harrow Sect, to Arm between 1st & 2nd Tooth
Layout - 5' Wing with 5' Stub

35'5" Harrow on a 14' Base
37'9" Harrow on a 16' Base
Layout - 6' Wing 5' Stub

39'3" Harrow on a 16' Base

Bolt harrow Sect. to Arm between 1st & 2nd Tooth

Angled Tooth 5' Sect.
Straight Tooth 5' Sect.
Spring Tooth 5' Sect.- 7 tines

5'-0" Roller Sections

1"

11'9"

Angled Tooth 6' Sect.
Straight Tooth 5'-9" Sect.
Spring Tooth 5'-9" Sect.- 8 tines

5'-9" Roller Sections

12"

11'9"

Angled Tooth 6' Sect.
Straight Tooth 5'-9" Sect.
Spring Tooth 5'-9" Sect.- 8 tines

5'-9" Roller Sections

12"

Angled Tooth 5' Sect.
Straight Tooth 5' Sect.
Spring Tooth 5' Sect.- 7 tines

5'-0" Roller Sections

Bolt harrow Sect. to Arm between 1st & 2nd Tooth
Layout - 6' Wing with 5' Stub

40'9" Harrow on a 16' Base

Bolt Harrow Sect. to Arm between 2nd & 3rd Tooth

Angled Tooth 5'-6" Sect.
Straight Tooth 5'-9" Sect.
Spring Tooth 5'-9" Sect., 8 lines

12'-6"

12"

5'-9" Roller Sections

Angled Tooth 6' Sect.
Straight Tooth 5'-9" Sect.
Spring Tooth 5'-9" Sect., 8 lines

Angular Tooth 5'-6" Sect.
Straight Tooth 5'-9" Sect.
Spring Tooth 5'-9" Sect., 8 lines

Bolt Harrow Sect. to Arm between 2nd & 3rd Tooth

1"

5'-9" Roller Sections

5'-9" Roller Sections
Appendix

Hose Diagrams

**Hose-001**  Hose Diagram - 12’ Base only
**Hose-002**  Hose Diagram - 12’ Base Flatfold with Gage Wheels
**Hose-003**  Hose Diagram - 12’ Base Stackfold with Gage Wheels
**Hose-004**  Hose Diagram - 14’ Base only
**Hose-005**  Hose Diagram - 14’ Base Flatfold with Gage Wheels
**Hose-006**  Hose Diagram - 14’ Base Stackfold with Gage Wheels
**Hose-007**  Hose Diagram - 16’ Base only
**Hose-008**  Hose Diagram - 16’ Base Flatfold with Gage Wheels
**Hose-009**  Hose Diagram - 16’ Base Stackfold with Gage Wheels

Wing Lock Valve mounted on front frame of RF Cart near LH axle ear. (viewed from front of cart)

Stack Fold Valve mounted on rear frame of RF Cart near LH wing fold cylinder. (viewed from rear of cart)
Lift cylinders are 3" x 8".

Main disconnects.

360° hose

13" hose

13" hose

73" hose

81" hose

24" hose

13" hose

24" hose

47 Base Only Kit -- DC-1072-A
Registration information

Serial Number ________ (located on RH “A” Frame Mount - see page 15)

Date Purchased ________

Dealer Purchased From
Name: ____________________________________________
Address: ____________________________________________
City: _______________ State: _____ Zip: _____

Warranty Policy

Remlinger Manufacturing will warrant all products against defects in material and workmanship manufactured and sold by it. Warranty will only be granted after examination by appropriate personnel. This warranty is expressly limited to the replacement of defective parts. This warranty does not obligate Remlinger Manufacturing to cover cost of labor to replace these parts. This warranty is in effect for 1 year after purchase. Remlinger Manufacturing warrants its own products only, and cannot be responsible for damages to equipment on which it is attached or mounted.

For questions about your Remlinger product contact:

Remlinger Manufacturing Company Inc.
16394 U.S. 224
Kalida, OH 45853

Phone: 1-800-537-7370
Email: technicalsupport@remlingermfg.com
Website: www.remlingermfg.com
Registration Form
3500 Series Rolling Finisher

Please Return Promptly

Name: ____________________________________________
Address: ____________________________________________________________________________
City: ___________ State: ________ Zip: ________

Base Size
☐ 12’ ☐ 14’ ☐ 16’
S/N ________________ (located on RH “A” Frame Mount - see page 15)

Wing Size
☐ 3’ ☐ 4’ ☐ 5’ ☐ 6’

Stub Size
☐ 4’ ☐ 4’6” ☐ 5’

Harrow Size
_____________________________________________________________________

Roller Harrow
☐ Single ☐ Double

1 Bar Harrow
☐ None ☐ Angled Tooth ☐ Straight Tooth ☐ Spring Tine

Dealer Purchased From

Name: ____________________________________________
Address: ____________________________________________________________________________
City: ___________ State: ________ Zip: ________

Mail To:
Remlinger Manufacturing Company, Inc.
16394 U.S. 224
Kalida, OH 45853

Fax To:
1-419-532-2244

Thank you for purchasing Remlinger tillage equipment.
Notes
Remlinger Manufacturing
16394 US 224
PO Box 299
Kalida, OH 45853

Toll Free 1-800-537-7370
Phone (419) 532-3647
Fax (419) 532-2244

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