On-A-Roll Lifter®

Service Guide for Standard Models

This guide provides information on some common problems that may occur and steps to resolve them.

It is the user’s responsibility to exercise good judgment, common sense, safety measures and reasonable limits regarding the use of the On-A-Roll Lifter® so as not to incur risk to the user or damage to the materials being carried. In order to obtain maximum benefit from your machine, please read these instructions carefully before using the On-A-Roll Lifter®.
Contents

1. Parts Diagram
   1.1 Complete Parts Diagram
   1.2 Chain & Media Lifter Assembly
   1.3 Hydraulic & Push Bar Assembly

2. On-A-Roll Lifter® Wheels Not Turning Properly

3. Oil Leaking

4. Roll Not Lifting

5. Tray Sinks Down Slowly

6. Oil Leaking At Release Valve

7. Oil Leaking At Other Points

8. Inspecting Hydraulic Cylinder for Leaks

1  Parts diagram and list of components

1.1 Contact Foster before replacing any components or performing any adjustments that aren’t currently mentioned in this instruction manual.

<table>
<thead>
<tr>
<th>Item #</th>
<th>Description</th>
<th>Item #</th>
<th>Description</th>
<th>Item #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>63001</td>
<td>Support frame</td>
<td>63038</td>
<td>Pump lift/lower rod &amp; knob</td>
<td>63076</td>
<td>Pump- foot pump pin</td>
</tr>
<tr>
<td>63002</td>
<td>&quot;U&quot; bolt nut</td>
<td>63040</td>
<td>Pump chain cotter pin</td>
<td>63077</td>
<td>Pump- foot pump roller</td>
</tr>
<tr>
<td>63003</td>
<td>&quot;U&quot; bolt washer</td>
<td>63041</td>
<td>Pump chain bolt</td>
<td>63078</td>
<td>Pump- foot pump tube</td>
</tr>
<tr>
<td>63004</td>
<td>&quot;U&quot; bolt</td>
<td>63042</td>
<td>Hydraulic pump chain</td>
<td>63079</td>
<td>Pump- foot pump washer</td>
</tr>
<tr>
<td>63005</td>
<td>17 x 3mm Support hex bolt</td>
<td>63043</td>
<td>Pump front chain guard</td>
<td>63080</td>
<td>Pump- foot pump top bracket</td>
</tr>
<tr>
<td>63006</td>
<td>Support/caster frame nut</td>
<td>63044</td>
<td>Pump chain wheel connector</td>
<td>63081</td>
<td>Hydraulic foot pump</td>
</tr>
<tr>
<td>63007</td>
<td>Lifter frame guide block</td>
<td>63045</td>
<td>Pump chain wheel</td>
<td>63082</td>
<td>Hydraulic foot pump cover</td>
</tr>
<tr>
<td>63008</td>
<td>Axel &amp; bearing wheel bolt</td>
<td>63046</td>
<td>Pump chain wheel tube</td>
<td>63083</td>
<td>Hydraulic pump pin</td>
</tr>
<tr>
<td>63009</td>
<td>Axel &amp; bearing washer</td>
<td>63047</td>
<td>Pump chain wheel lock</td>
<td>63086</td>
<td>M6 x 19mm bolt</td>
</tr>
<tr>
<td>63010</td>
<td>Axel &amp; bearing wheel</td>
<td>63048</td>
<td>Pump rear chain guard</td>
<td>63087</td>
<td>Allen key bolt nut</td>
</tr>
<tr>
<td>63011</td>
<td>Axel &amp; bearing thick washer</td>
<td>63050</td>
<td>Pump chain guard screw</td>
<td>63088</td>
<td>Allen key bolt washer</td>
</tr>
<tr>
<td>63012</td>
<td>Axel &amp; bearing connector</td>
<td>63051</td>
<td>Pump chain support rod</td>
<td>63090</td>
<td>Media tray strap clamp</td>
</tr>
<tr>
<td>63013</td>
<td>Lifter frame</td>
<td>63052</td>
<td>Pump washer 1</td>
<td>63091</td>
<td>Media tray strap bolt</td>
</tr>
<tr>
<td>63014</td>
<td>16' Media tray</td>
<td>63053</td>
<td>Pump washer 2</td>
<td>63092</td>
<td>Media tray strap nut</td>
</tr>
<tr>
<td>63016</td>
<td>Caster frame washer</td>
<td>63054</td>
<td>Pump washer 3</td>
<td>63095</td>
<td>Push Bar Assembly</td>
</tr>
<tr>
<td>63017</td>
<td>Caster frame nut</td>
<td>63055</td>
<td>Pump top support</td>
<td>63096</td>
<td>8' Media tray</td>
</tr>
<tr>
<td>63018</td>
<td>Standard Front caster wheel</td>
<td>63056</td>
<td>Pump top support tube</td>
<td>63100</td>
<td>Hydraulic Pump Assembly</td>
</tr>
<tr>
<td>63019</td>
<td>Support strap for media tray</td>
<td>63057</td>
<td>Pump middle support</td>
<td>63105</td>
<td>Seal Kit for HP Assembly</td>
</tr>
<tr>
<td>63020</td>
<td>Caster frame</td>
<td>63058</td>
<td>Pump support washer 1</td>
<td>63110</td>
<td>Chain Assembly</td>
</tr>
<tr>
<td>63021</td>
<td>Rear caster wheel nut</td>
<td>63059</td>
<td>Pump support washer 2</td>
<td>63108</td>
<td>Pressure Release Assembly</td>
</tr>
<tr>
<td>63022</td>
<td>Rear caster wheel washer</td>
<td>63060</td>
<td>Pump spring</td>
<td>63120</td>
<td>16' Media Tray Assembly</td>
</tr>
<tr>
<td>63023</td>
<td>Rear caster wheel</td>
<td>63061</td>
<td>Pump top support</td>
<td>63125</td>
<td>8' Media Tray Assembly</td>
</tr>
<tr>
<td>63024</td>
<td>Pump screw (right)</td>
<td>63062</td>
<td>Pump pin</td>
<td>63140</td>
<td>Guide Bearing Assembly</td>
</tr>
<tr>
<td>63025</td>
<td>Pump seal (right)</td>
<td>63063</td>
<td>Pump connector</td>
<td>63155</td>
<td>Hardware Assembly</td>
</tr>
<tr>
<td>63026</td>
<td>Pump coned spring (right)</td>
<td>63064</td>
<td>Pump rubber ring</td>
<td>63186</td>
<td>M6 x 19mm bolt</td>
</tr>
<tr>
<td>63027</td>
<td>Pump steel ball (right)</td>
<td>63065</td>
<td>HP Small support block</td>
<td>63194</td>
<td>Split Washer for Standard Caster Wheel</td>
</tr>
<tr>
<td>63028</td>
<td>Pump screw (left)</td>
<td>63066</td>
<td>Hydraulic pump</td>
<td>63195</td>
<td>Caster frame Phillips head bolt</td>
</tr>
<tr>
<td>63029</td>
<td>Pump seal (left)</td>
<td>63067</td>
<td>Hydraulic pump base</td>
<td>63196</td>
<td>Support frame washers</td>
</tr>
<tr>
<td>63030</td>
<td>Pump rubber screw (left)</td>
<td>63068</td>
<td>Pump washer 1</td>
<td>63197</td>
<td>Standard Caster wheel bolt</td>
</tr>
<tr>
<td>63031</td>
<td>Pump coned spring (left)</td>
<td>63069</td>
<td>Pump washer 2</td>
<td>63198</td>
<td>Caster wheel plastic washer</td>
</tr>
<tr>
<td>63032</td>
<td>Pump pin (left)</td>
<td>63070</td>
<td>Pump washer 3</td>
<td>63199</td>
<td>Caster wheel metal insert</td>
</tr>
<tr>
<td>63033</td>
<td>Pump support</td>
<td>63071</td>
<td>HP Large support block</td>
<td>63200</td>
<td>Standard Caster wheel support bracket</td>
</tr>
<tr>
<td>63034</td>
<td>Pump lift/lower support</td>
<td>63072</td>
<td>Pump foot pump bolt</td>
<td>63201</td>
<td>Standard Caster wheel Assy</td>
</tr>
<tr>
<td>63035</td>
<td>Pump lift/lower spring</td>
<td>63073</td>
<td>Pump foot pump bolt 2</td>
<td>63203</td>
<td>Push Bar Rubber Sleeves</td>
</tr>
<tr>
<td>63036</td>
<td>Pump lift/lower tension bolt &amp; nut</td>
<td>63074</td>
<td>Pump- foot pump bracket</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63037</td>
<td>Pump lift/lower tension connector</td>
<td>63075</td>
<td>Pump- foot pump nut</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1 Parts diagram and list of components

1.1 Contact Foster before replacing any components or performing any adjustments that aren’t currently mentioned in this instruction manual.
1.2 Parts diagram: Chain & Media Tray Assembly

Chain Assembly 63110
(Contains: 63024-63039 & 63052-63083)

Media Tray
16' Tray 63014
8' Tray 63096

16' Media Tray Assembly 63120
(Contains: 63014, 63019, 63086, 63088, 63090-63092)

8' Media Tray Assembly 63125
(Contains: 63096, 63019, 63086, 63088, 63090-63092)
1.3 Parts diagram: Hydraulic & Handle Bar Assembly

**Complete Hydraulic Assembly**
63100  
(Contains: 63024-63039 & 63052-63083)

**Seal Kit**
63105  
(Contains: 63052, 63053, 63054, 63064, 63068, 63069, 63070)

**Pressure Release Rod Assy.**
63108  
(Contains: 63035, 63036 (2), 63037 (2), 63038, 63039, 63049, 63087 (2))

**Push Bar Assembly**
63095
2. **On-A-Roll Lifter® Wheels Not Turning Properly**

   1. Lift the front side to ensure the front wheels are intact and turning. Replace if damaged.
   2. Lift the back side to ensure the steering wheels are intact and turning. Replace if damaged.
   3. Ensure the cross bar is straight and not bowed. If the cross bar is bowed, the likely cause is that the user has dropped the roll media onto the tray or the roll weight is in excess of the recommended weight. Replace if damaged.

3. **Oil Leaking**

   1. Remove the 2 nuts attached to the chain.
3. **Oil Leaking**

2. Remove 2 nuts from the U bolt.

3. Lift the hydraulic pump.

4. Pack it properly into thick packaging material to avoid the oil spilling.

5. Replace with new hydraulic pump.

6. Tighten 2 nuts from the U bolt and reattach the 2 nuts to the chain.
4. **Roll Not Lifting**

Check for leaking.
1. Open the oil filling screw:
2. Fill the pump unit with 10-20 ml hydraulic oil, type L-HM46 Hydraulic oil (equivalent to ISO VG46).
3. Wait for few minutes for the oil to reach the bottom of the pump unit. Try to lift.
4. If still not lifting, add additional oil in 2 more steps until the tray begins to lift.

5. **Tray Sinks Down Slowly**

1. Replace the hydraulic pump as instructed in Instruction 3 “Oil Leaking”.
2. Fill with more oil as instructed in Instruction 4 “Roll Not Lifting”.
3. If still sinking, replace the seal of the lowering valve. See Instruction 6 “Oil Leaking at Release Valve”.
6. **Oil Leaking at Release Valve**

1. Replace the hydraulic pump as instructed in step 3.
2. Open oil filling screw as instructed in step 4.
3. Turn the pump up-side down and empty oil into a bottle for later reuse.
4. Loosen screw (a), remove screw (b) and slide sprint sideward.
5. Loosen screw (c) and slide it sideward. Remove the metal rod.
6. Unscrew the valve core and replace the 2 rubber rings.
7. Reassemble the release valve.
8. Refill the oil into the pump.
9. Screw the oil filling screw.
10. Reassemble the hydraulic pump onto the lifter.

7. **Oil Leaking at Other Points**

1. Replace hydraulic pump.
8. Inspecting Hydraulic Cylinder for Leaks

1. Wipe clean any excess oil that has accumulated on the cylinder or carriage, with attention to the areas around the fill/drain plugs and pressure seals circled in the previous diagram. This will help identify any future leaks (if they occur). Also make sure the underside of the cylinder/carriage has been wiped clean, any residual oil may still drip.

2. Inspect the Drain plugs (a) and ensure they are tight. Do not over tighten.

3. Inspect the oil fill plug (b) and ensure it is tight. Do not over tighten.

4. If excessive fluid has been lost (tray does not raise) see Step 4 “Roll Not Lifting”. Otherwise, continue to Instruction 6 “Oil Leaking at Release Valve”:
   a. Fill the pump unit with 10-20 ml hydraulic oil (Less is better), L-HM46 Hydraulic oil (equivalent to ISO VG46).
   b. Wait for few minutes for the oil to reach the bottom of the pump unit. Try to lift.
   c. If still not lifting, add additional oil in 2 more steps until the tray begins to lift.

5. Cycle the On-A-Roll Lifter® up and down several times (loaded) and observe the following areas for leaks:
   a. Drain plug leaks (a) should be visible as the fluid drips below their respective ports.
   b. Looking upward, the next potential leak area is the release valve (c). Leaking fluid will cascade down the valves pedestal, and down to other components.
   c. The oil fill plug is next (b), and a leak would show a fairly visible streak of oil coming downward from the plug.
   d. Lastly, if the hydraulic ram (d) is leaking, oil would appear above the oil fill plug and cascade downward. However, at this point, it is suspected that the lifter would not hold the media tray in place.
   e. Consider the pump (e). A leak here is often difficult to find due to the spring obstructing the seal area, making pre-cleaning and inspection difficult..

6. If you should find any leak that was not corrected by tightening the fill/drain plugs, please contact Foster (1-800-523-4855) for advanced support.

Note: If fluid has been added or the unit has been overfilled, it is possible that excess fluid may leak from the fill plug, when the lifter is in operation. The fill plug may continue to leak until the excess fluid is gone. This isn’t a problem and the machine will still function normally.

1. Place protection material on the floor e.g. cardboard, to protect the floor from oil dropping.
2. Very carefully, lay the lifter in a horizontal position as shown:

3. There are 6 points marked A, B, C, D, E in the next illustration. Identify the point of leakage and follow instructions.

Foster reserves the right to change designs, specifications and parts without notice.

**Point A**

1. Unscrew the screw, part # 63028.
2. Remove the seal (63029), rubber screw (63030), coned spring (63031) and Pin (63032).
3. Inspect the parts if they are broken or worn out.
4. Replace the appropriate parts or all the parts and insert the parts as shown in the previous diagram.

**Point B**

1. Unscrew the screw, part # 63024.
2. Remove the seal (63025), coned spring (63026) and steel ball (63027).
3. Replace with all NEW parts and insert the parts as shown in the previous diagram.

**Point C**

1. Unscrew the screw, part # 63024.
2. Remove the seal (63025), coned spring (63026) and steel ball (63027).
3. Replace with all NEW parts and insert the parts as shown in the above diagram.

**Point D**

1. Make sure the On-A-Roll Lifter® is in the normal position.
2. Loosen screw (a), remove screw (b) and slide spring sideward.
3. Loosen screw (c) and slide it sideward.

![Diagram of On-A-Roll Lifter® Lift Pump Repair](image)

**Point D**

4. Remove metal rod.

5. Unscrew valve core and replace the 2 rubber rings, Part 63064.

6. Reassemble the release valve.

**Point E**

1. Remove 1 of the retaining pins on the hydraulic pump foot pin.
2. Remove the hydraulic pump foot pin.
3. Remove the piston rod and inspect the parts if they are broken or worn out.
4. Replace the appropriate parts or all the parts and insert the parts as shown in the previous diagram.