On-A-Roll Lifter®

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

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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 & Fork Assembly

Complete Chain & Fork Assembly 63246
1.3 Parts diagram: Hydraulic Pump Assembly

63245
Complete Hydraulic Pump Assembly includes: complete Hydraulic pump assembly, double chain wheel, chain assembly, chain cover, cover bolts and washers
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-HL68 (equivalent to ISO VG68). If room temperature is between -15°C to -5°C, use L-HL46 hydraulic oil (equivalent to ISO VG68).
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. **Inspecting Hydraulic Cylinder for Leaks**

Regularly changing your hydraulic fluid is the best way to prevent hydraulic pump 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 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. 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. Check 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.
7. **On-A-Roll Lifter® Lift Pump Repair**

1. There are 7 points marked A, B, C, D, E, F, G in the next illustration. Identify the point of leakage and follow instructions.

Foster reserves the right to change designs, specifications and parts without notice.
7. On-A-Roll Lifter® Lift Pump Repair

Point A

1. Unscrew the bolt.
2. Remove the seal ring, spring, valve and valve pad.
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 bolt.
2. Remove seal ring, spring, valve pin, valve, oil seal and steel ball.
3. Inspect the parts if they are broken or worn out.
4. Replace with all new parts and insert the parts as shown in the previous diagram.

Point C

1. Unscrew the nut.
2. Remove the bolt, lever plate, oil seal, pin, seal ring and spring.
3. Replace with all new parts and insert the parts as shown in the above diagram.

Point D

1. If spring and release valve are leaking, replace the Hydraulic Pump. See Step 8.

Point E

1. Unscrew the bolt.
2. Remove the seal ring.
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 F

1. Unscrew the bolt.
2. Remove the seal ring.
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.

Note: If Oil is leaking at other points or parts cannot be replaced, see step 8 on replacing the Hydraulic Pump.
8. **Hydraulic Pump Replacement**

If any of the connection points are loose in Step 6, tighten them to prevent leaking. If any connection point is damaged, those parts will need to be replaced. If connections appear fine or parts cannot be replaced then the Hydraulic Pump will need to be replaced.

**Hydraulic Pump Replacement**

1. Remove the nuts and cotter pins from both chains attaching to the top section of the chain assembly.

2. Remove 2 washers and 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 washer and nuts from the U bolt.
7. Reattach the nuts and cotter pins to each chain.