



Tara Pump Rod Replacement

Replace the pump rod of a Tara direct action hand pump.

Written By: Sam Goldheart



INTRODUCTION

Follow this guide to remove the pump rod in a Tara pump for replacement or repair.

TOOLS:

- [T-Handle](#) (1)
- [24mm Wrench](#) (1)

Step 1 — Handle



Before performing any repairs, perform a water test on the pump by raising and lowering the handle a full 40 strokes. A properly performing pump will yield greater than 10 liters.

- Use a Tara tool to loosen the jam nuts on either side of the pump.
- *i* The bolts do not need to be loosened or removed, only the nuts need to be loosened.

Step 2



- Unscrew the lock bolts about half an inch.
- *i* The bolts do not need to be removed from the base.

Step 3



- Pull the plastic bushing and handle straight up out of the pump.
- *i* If the bushing doesn't come up, loosen the lock bolts further.

Step 4



- Lift up the handle and riser main until the joint between the two is at a comfortable height to work on.

Step 5



- Loosen the jam nut beneath the pump handle using the Tara tool.

Step 6



- Unscrew the pump handle from the top of the riser main.

⚠ Make sure someone is tightly holding the lower portion of the riser main to prevent losing it down the well.

Step 7



- Lift and remove the handle from the pump. Store the handle in a sanitary place to prevent contamination.

Step 8 — Pump Rod



- Screw the T-handle onto the top of the riser main.

Step 9



- Tighten the jam nut up against the base of the T-handle.

Step 10



- Use the T-handle to push the riser main back down into the well.

Step 11



- Once the riser main hits the bottom, turn the T-handle while pushing down.
- i* This will hook the foot valve onto the traveling valve, allowing you to pull the two out of the well together.
- i* You should feel some resistance if the foot valve is successfully attached.

Step 12



- Use the T-handle to pull the riser main straight up out of the well.
- i* Take care to pull up slowly to ensure the foot valve does not get released from the hook at the end of the riser main.

Step 13



- Continue pulling the riser main up from the well.
- Pull the riser main until the base of the T-handle is at a comfortable height to work on.

Step 14



- Loosen the jam nut from the base of the T-handle.
- Unscrew the T-handle from the top of the riser main.
- Remove the T-handle, making sure to hold the remaining end of the riser main to prevent dropping it down the well.

Step 15



- Continue to pull the riser main out of the well.

Step 16



- Keep pulling until the first joint is exposed.
- Lift the joint up to a comfortable working height.

Step 17



- Use two wrenches to loosen the top section of riser main from the lower section.
- Unscrew the top section of the riser main.
- Make sure someone is holding the remaining section of the riser main.

Step 18



- Remove the top section of the riser main.

Step 19



- Lay the first section of riser main in a sanitary place to prevent contamination.

i Repeat the previous procedure to remove the remaining sections of the riser main from the well.

i Lay each new piece in the order it was removed to aid in reassembly.

Step 20



i The last section of riser main will have the traveling valve screwed on to the end, and the foot valve hooked onto the traveling valve.

⚠ Be careful not to allow the foot valve to release from the hook by pulling slowly on the riser main.

Step 21



- Lift and twist the foot valve to unhook it from the traveling valve.

Step 22



- Once the riser main and valves have been removed from the well, place a rag over the top to prevent accidentally dropping anything down the well.

To reassemble your device, follow these instructions in reverse order.