

Afridev Casing Pipe Disassembly

Repair the casing pipe on an Afridev water pump.

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INTRODUCTION

Use this guide to lift the casing pipe of an Afridev pump out of the pump in order to repair a broken or damaged segment of the pipe.

TOOLS:

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- Socket Wrench (1)
- 24mm Wrench (1)
- 19 mm crescent wrench (1)
- T-Handle (1)

Step 1 — Head

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• Assemble the required tools, including the Afridev tool and crescent wrenches.

Step 2



• 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.



- Loosen the bolt on front of the face plate with the Afridev tool.
- Remove the plate from the pump by lifting it straight up.

Step 4 — Axle and Handle



• Insert the T-handle into the top cylinder of the exposed pump rod.



- Loosen the 2 bolts on either side of handle.
- (i) It is not necessary to remove the bolt at this time; however, take caution to not let the bolt fall out of the handle.

Step 6



- Loosen the 2 bolts on either side of the head to remove the handle from the pump rod.
- (i) It is not necessary to remove the bolt at this time; however, take caution to not let the bolt fall out of the handle.



• Lift the handle to a horizontal position.

Step 8



• While one person lifts up on the T-handle, remove the bolt and connection pieces.



- Remove the bolt and connection pieces from the handle.
- (i) Set the bolt pieces in a sanitary place, such as a bucket, to prevent contamination.

Step 10



• Remove the handle from the pump.

(i) Be sure to set the handle in a sanitary place to prevent contamination.

Step 11 — Pump Rod



- Grab firmly on the T-handle and lift the pump rod straight up.
- Expose the first connection of the pump rod, and support the portion below the connection.

Step 12



• While holding the pump rod below the first connection tightly, lower the first portion of the rod to a horizontal position.



 Unhook the first connection by pushing it out and down, then pulling it away from the rest of the rod.

Step 14



- Repeat steps 11-13 for the remaining sections of pump rod.
- (i) Be sure to set the pump rod segments above the ground to avoid contamination.

Step 15 — Tank



- Place one wrench on the top side of the top base of the tank spout.
- Place another wrench on the underside of the bolt in order to get more leverage.
- Pull the top wrench to the right, and the bottom wrench to the left.

Step 16



- Remove the loosened bolt from the pump.
- Repeat this procedure for the 3 remaining bolts.



- Lift the tank straight up to remove it from the pump.
- (i) Be sure to place the tank in a sanitary place to prevent contamination.

Step 18 — Afridev Casing Pipe Disassembly



Slightly twist the head flange until the corners overhang the top of the tank, far enough so that you can grab them.



- Lift the top plate to expose the casing pipe.
- (i) Place a piece of wood or brick underneath the top plate to hold it in place.

Step 20



• Untie knots from the flange, holding on to the loose ends of the rope.



- With two people holding each end of the rope, remove the support underneath the top plate and lower the plate.
- This may require a bit of force, since the plate may be attached tightly.

Step 22



• Lift the casing from the borehole, simultaneously pulling up on the ropes to support the casing.



• Slip a casing support over the casing.

Step 24



• Continue lifting the casing, supporting the top portion with the casing support, as needed.



 When you reach the portion of the casing that needs to be repaired, tie the casing support ropes onto the frame.

Step 26



• While supporting the casing, make the necessary repairs to the casing pipe.

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