

This is a guide to replacing the pump for your WEN PW28 2800PSI Pressure Washer. This guide is best used in conjunction with the PW28 manual, included as a physical copy with your unit and available on the WEN website page for the PW28 (link [here](#)), by clicking “Click here to view the product manual”.

If at any point you need assistance, have questions, or want to order parts, call WEN customer service at 1-800-232-1195, M-F, 8-5 Central Time, or email techsupport@wenproducts.com.

If replacing any parts, use only genuine replacement parts purchased from WEN Products. Use of replacement parts not sold by WEN Products will void the product’s warranty and could lead to decreased performance or injury.

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TOOLS NEEDED

You will need:

- A 10mm combination wrench or socket
- An 8mm combination wrench or socket
- Needle-nose pliers

You may want:

- An assistant
- Slip-joint pliers

ENSURE THAT THE ENGINE IS OFF AND HAS HAD SUFFICIENT TIME TO COOL BEFORE BEGINNING ANY MAINTENANCE OR REPAIR WORK. FOLLOW ALL SAFETY PROCEDURES LISTED IN YOUR OWNER’S MANUAL. USE COMMON SENSE. AVOID INJURY.

REMOVING THE OLD PUMP

1. Before beginning, complete the following steps:
 1. Drain the engine of oil as instructed in your owner’s manual.
 2. Drain the carburetor as instructed in your owner’s manual.
 3. Relieve any pressure in the system by squeezing the gun trigger.
 4. Disconnect the water supply and the high-pressure hose from the pump.
 5. Drain the detergent tank if there is any detergent in the tank.
2. Place the pressure washer on a level surface.
3. Disconnect the hoses from the detergent tank and the pump as shown in Figures 1 – 2 below.



Fig. 1: Disconnect hoses from tank.



Fig. 2: Disconnect hose from pump.

TIP: needle-nose pliers are helpful for gently working the hoses off the barbed fittings.

4. Use the 8mm wrench or socket to remove the two screws from the front of the detergent tank as shown in Fig. 3 below.

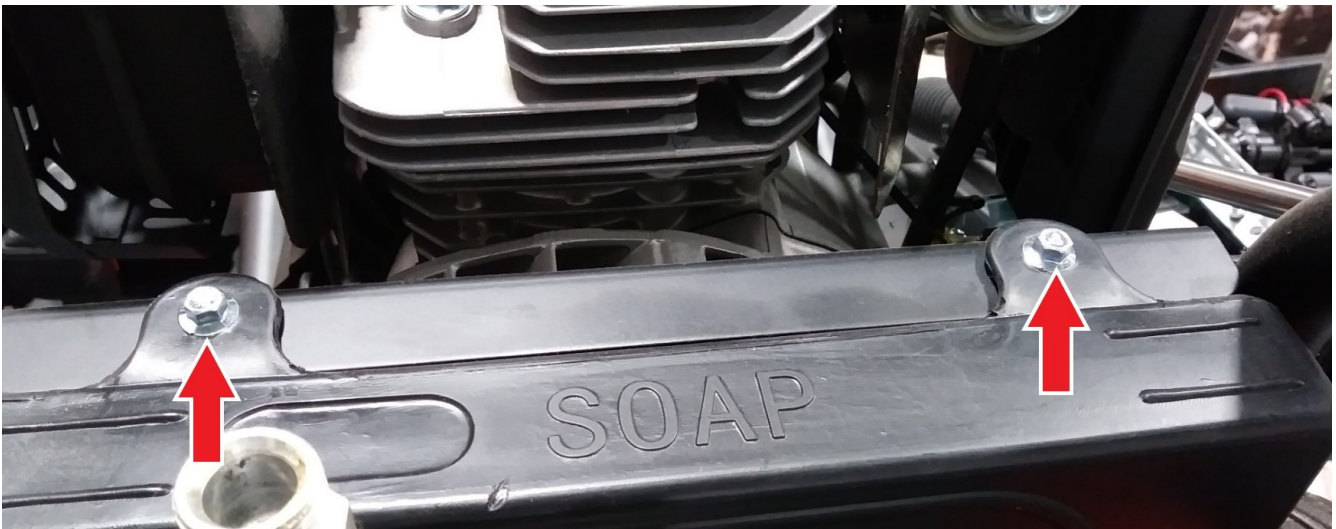


Fig. 3: Remove these screws.

5. As viewed from the front of the unit, remove the wheel on the right. To do this:
 1. Remove the cotter pin shown in Fig. 4 below. Slip-joint pliers may be helpful.



Fig. 4: Remove cotter pin.

2. Slide the wheel and axle pin out of the frame. NOTE: as you do this, the pressure washer will want to tilt to this side. Put a block of wood or other sturdy object under the frame to prevent it from tilting over.
6. Remove the other screw that holds the detergent tank, as shown in Fig. 5 below.



Fig. 5: Remove this screw.

7. Remove the detergent tank and set it off to the side.
8. It is now time to remove the pump from the engine. **Before proceeding, read the notes below.** You can either:
 1. Place the unit on an elevated surface and tilt it backwards onto its back. **NOTE:** if you choose this option, you will need to have an assistant hold the engine as you remove the pump mounting bolts. **Do not use this option if you are working without a helper.**
 2. Keep the unit in its normal orientation on the ground. This will make it easier to install the replacement pump, but it will also be more difficult to remove the old pump. **NOTE:** if you choose this option, the pump will drop downwards as you remove it from the frame. Be prepared to catch it.
9. Go back and read step 8 again, just in case.
10. Use a 10mm wrench or socket to remove the three screws shown in Fig. 6 below. **NOTE:** if you chose option 8.1 in step 8, have a helper hold the engine in position as you loosen and remove the bolts. If you do not, the engine will want to drop down, which could damage the engine.

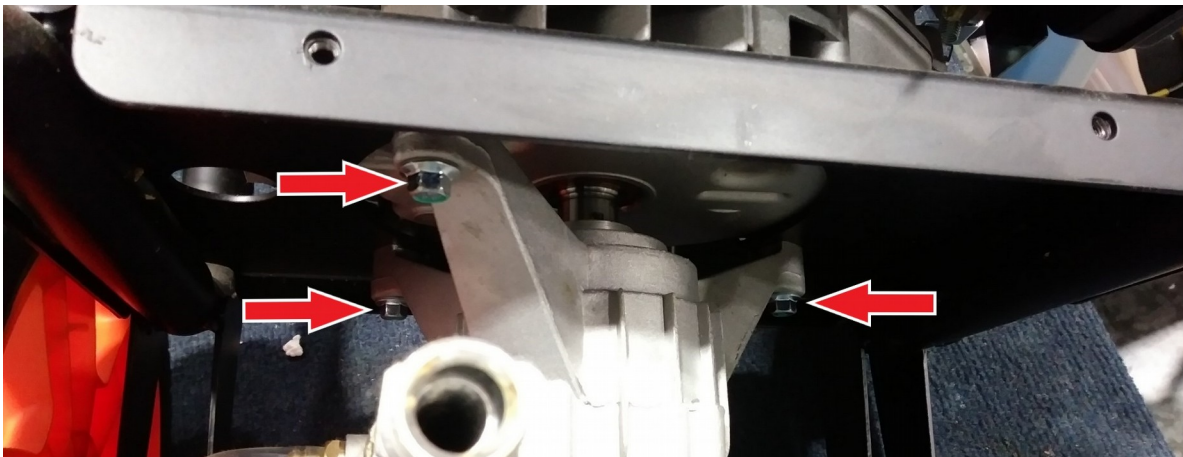


Fig. 6: Remove these three screws.

11. Be careful not to lose the engine shaft key (shown in Fig. 7 below). Set it on a clean cloth.

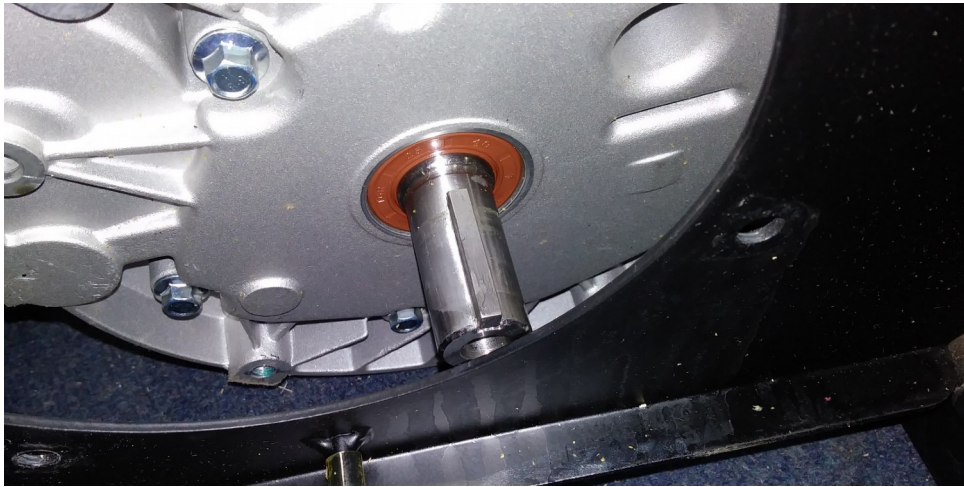


Fig. 7: Shaft key.

INSTALLING THE NEW PUMP

12. Prepare the new pump. At this point, if you followed option 8.1 in step 8 above, proceed with the directions below. If not, proceed directly to step 13.
 1. Place the pressure washer on the ground. Remove the gun from its storage point on the frame and set it somewhere safe.
 2. Place the engine atop the frame with the shaft pointing downwards.
 3. Align one of the threaded holes in the crankcase with one of the three holes on the frame. Keep the engine facing the same way it was when you began.
 4. Insert one of the screws removed in step 10 above and tighten it a few turns.
 5. Repeat steps 12.3 & 12.4 for the other two holes in the crankcase and frame. When you are done, the bottom of the frame should look like Fig. 8 below.



Fig. 8: Screws helping to align the engine on the frame.

6. Remove all three screws. The engine is now properly lined up.
13. Put the shaft key in the slot on the engine shaft. Refer to Fig. 4 above. Align the slot on the pump sleeve (see Fig. 5 below) with the shaft key.

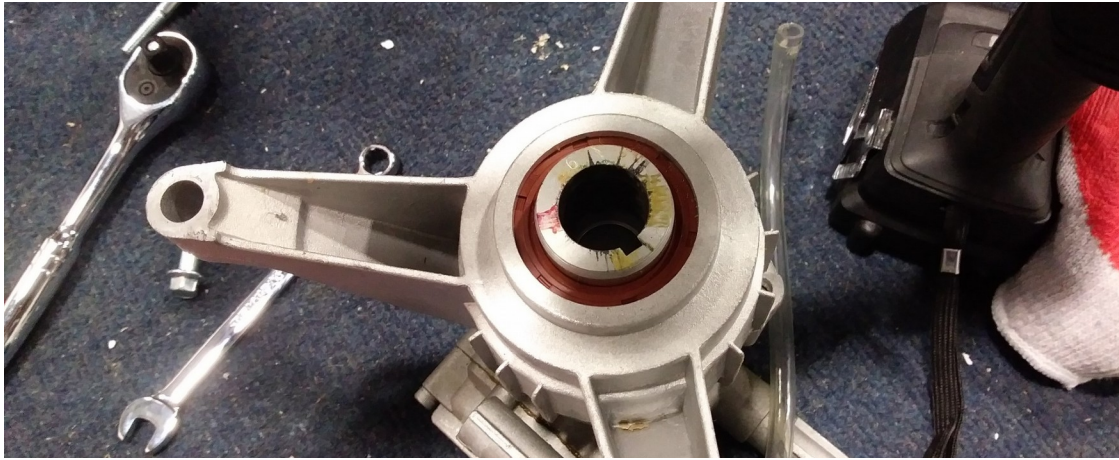


Fig. 9: Slot in pump sleeve mates with shaft key.

14. Gently place the pump sleeve over the engine shaft, making sure the shaft key and sleeve slot are aligned. It may help to have an assistant hold the pump while lining things up.
15. Once the key is in the pump sleeve and the pump is partially on the engine shaft, rotate the pump so its three mounting holes line up with the holes in the frame and in the engine crankcase. Insert and tighten the three screws (see Fig. 3 above).
 1. **NOTE:** tighten all three screws hand-tight. Then tighten one screw with a 10mm socket or wrench. Proceed in a circle. Go around the circle at least twice, making sure all screws are securely fastened.
16. Re-install the detergent tank and wheel. Don't forget to insert the cotter pin (refer to Fig. 4 above). Re-connect the hoses on the detergent tank and pump. Re-connect the high-pressure hose, water supply, etc.
17. Prepare the pressure washer for operation as instructed in your owner's manual.

QUESTIONS? PROBLEMS?

Contact WEN Customer Service at 1-800-232-1195, M-F, 8-5 CST, or email
techsupport@wenproducts.com