



*The Benchmark of Service*

**Informational Bulletin No. CO20061218**  
**Subject: Pump Casing Cracking**  
**Model: QP4TH**  
**Product Group: Trash Pumps**  
**Date: 02/01/2007**

## INFORMATIONAL BULLETIN

Group: CO

### INFORMATION ONLY!

#### Series/Parts Affected:

**Machines Affected:**  
**QP-4TH S/N 4TH-0653 AND BELOW**

### SERVICE INFORMATION

#### Problem:

- Pump casings are cracking due to loose fitting impeller washers (2).
- Casing cover seal washer has thick rubber causing the casing cover to become loose.

#### Remedy:

- Replace impeller washers with new style washers.
- Replace seal washer with new style washer and apply Loctite (P/N 60098) when casing cover is set to mounting flange of engine.

### PARTS INFORMATION

Quantity	Part #	Description	Remarks
1	0451290070	WASHER, LOCK IMPELLER	
1	1466251240	WASHER, IMPELLER	
4	0458220071	WASHER, SEAL	
1	60098	Loctite #271, RED, HIGH STRENGTH	

## INSTALLATION INSTRUCTIONS

### **WORK SAFELY!**

Only a qualified service technician with proper training should perform this installation.

### **Required Tools/Materials**

- 3/8 Ratchet with 14 mm drive socket
- 8 mm Allen wrench

Please make sure all parts are accounted for.

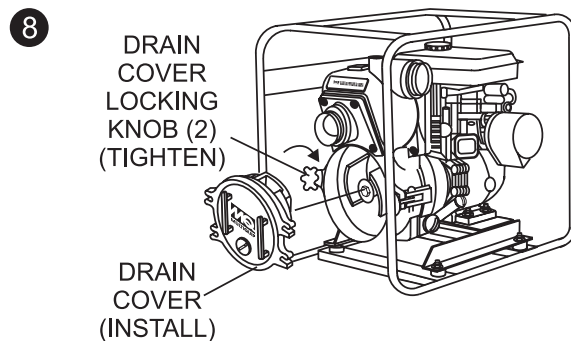
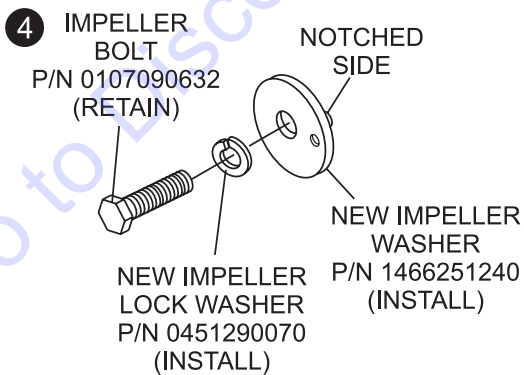
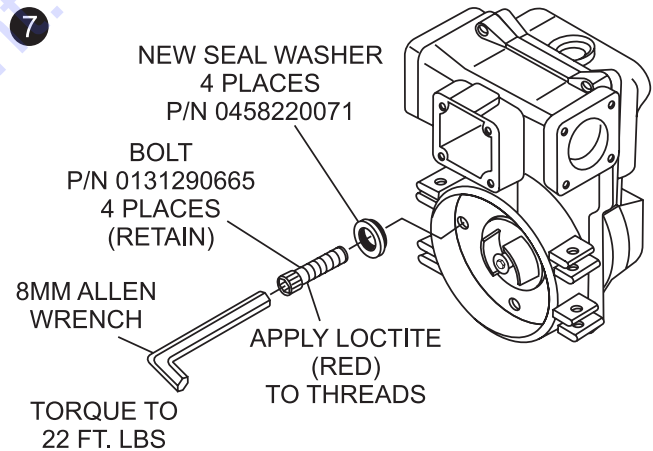
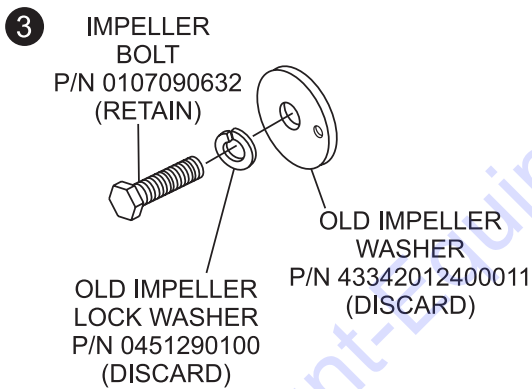
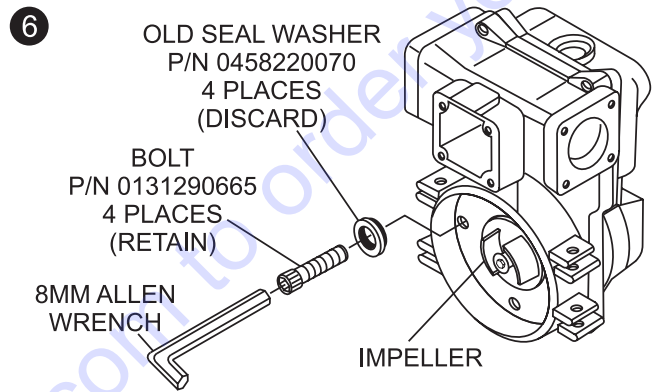
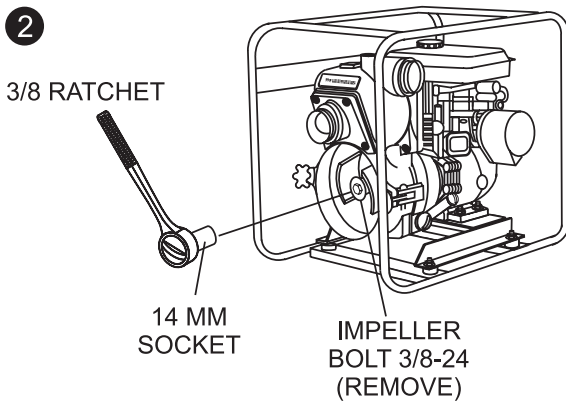
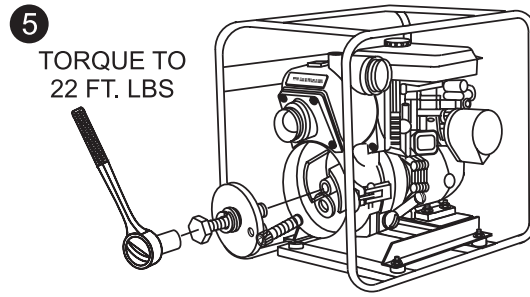
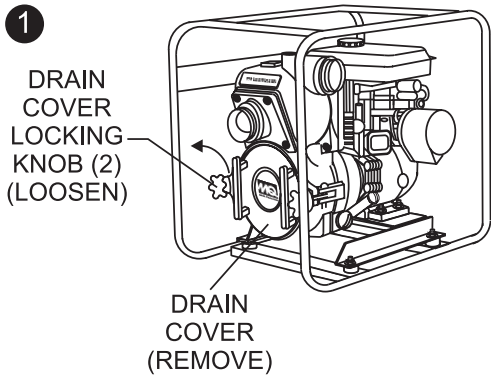
### **Safety Procedures**

Perform the following before attempting installation:

1. Place the pump on level secure ground that is free of dirt and debris.
2. Wear safety glasses, steel toed boots and any other safety protection that might be required for the modification.

### **Impeller/Seal Washers Installation Procedure (Reference Figure 1)**

1. Remove drain cover from pump casing by turning the locking knobs counterclockwise to loosen. Once the locking knobs have been loosened and folded back, pull the drain cover forward until it clears the pump casing. Set drain cover aside in a safe place.
2. Using a 3/8 ratchet with a 14 mm socket, remove the impeller bolt from the engine shaft.
3. Attached to the impeller bolt are the old style impeller washers. **Discard all washers;** they will not be used again. Retain the impeller bolt, it will be used later.
4. Install the new impeller lock washer (P/N 0451290070) onto the bolt as shown in Figure 1. Next, place the impeller washer (P/N 1466251240) with the key side (raised notch) facing outward onto the impeller bolt.
5. Insert impeller bolt along with associated hardware (Step 4) into engine shaft. Be sure to align the notch on the impeller washer with the key way on the engine shaft. This will lock the impeller washer in place. Tighten impeller bolt to 22 FT-LBS.
6. Remove the 4 bolts (P/N 0131290665) from the inside of the casing cover with an Allen wrench and set aside. Remove and discard the seal washer (P/N 0458220070). Replace the seal washer with the new one (P/N 0458220071).
7. Reinstall the 4 bolts (P/N 0131290665) removed in step 7 and apply Loctite to the threads. Tighten bolts with an Allen wrench to 22 FT-LBS.
8. Reinstall drain cover back into pump casing. Turn locking knobs clockwise to secure drain cover.



**Figure 1. Impeller/Seal Washer Installation**

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