

# Pump Head Repair and Replacement

## Dankoff Solar Pumps, SlowPump and Flowlight Booster Pump

Slowpumps and Booster Pumps use highly efficient Procon pump heads, which are long lasting (10+ years) when installed properly. They require 10 micron, low resistance filtration on the inlet side.

Typical causes of premature failure include:

- | Cavitation - the symptom is a loud buzzing noise
- | Excessive vertical lift in system
- | Sediment
- | Mineral deposits
- | Hard freezes

Download the Slowpump/Booster Pump Installation & Service Manual for design assistance and troubleshooting help.

[www.dankoffsolarpumps.com](http://www.dankoffsolarpumps.com)

## Pump Head Replacement

### Tools Required:

- | Two 7/16" open end wrenches
- | 1/8" hex (allen) wrench

**Remove the original pump head** by loosening **only** the three bolts that hold it. **Do Not** loosen the four Allen head outer bolts! (Allen head bolts are on 2008 and earlier models only. 2009 on, these four mounting bolts are not present) Remove the coupler half from the old pump's shaft.

**Bolt the replacement pump** to the round plate, and tighten the three bolts. Retighten the coupler, ensuring the rubber "spider" is captured between the two couplers. Be sure there is a small gap between the metal coupler halves -- about 1/16 inch (2mm).

**NOTE: (2008 and earlier pumps only)** If you loosened the four hex head outer bolts or if you have replaced the motor, you must **realign** the shafts or the coupler will bind, causing friction, increased power draw, and coupler wear. Replace the four bolts, but leave them finger tight. **BEFORE** re-installing the pump, drop a teaspoon of water into the inlet and with the motor running, slide the plate around so it settles into the position where there is **NO VIBRATION**, then tighten the bolts firmly.

**Do not use iron pipe fittings** on your pump or intake plumbing. **Flush out any dirt** or grit from intake plumbing. Rust and dirt particles will cause immediate damage to your pump.

### Safety Screen:

**1300/1400 SlowPumps, Screen part# 11031:** New pump heads will come with a new screen inside the acorn nut chamber on the intake side of your pump head. Remove the acorn nut to inspect and/or replace your safety screen.

**2500/2600 SlowPumps, Screen part# 11075:** If your order includes a new safety screen, it fits into the 3/4" brass reducer fitting originally supplied with your pump. Push it into the intake fitting.

**2900 Flowlight Booster Pumps, Hose Barb/Intake Screen part# 11000:** Your safety screen is located inside the 1/2"x3/4" Male Hose Barb. It will thread into the intake side of your pump head. Clean and/or replace as needed.

## Pump Head Repair

Procon pump heads are repairable. Contact:

Edco Service Center  
8220 Belvedere Ave, Suite F  
Sacramento, CA 95826  
(800) 559-0415

Please call first to confirm repair work, shipping and billing.

You will need to identify the pump head by the technical specification number below:

### Dankoff Solar Pumps 1300/1400 series Slowpump heads:

<b>Standard Version Model ID</b>	<b>Pump Head Specification #</b>
1303 / 1403	111E140F11XX
1304 / 1404	111E100F11XX
1308 / 1408	111E070F11XX
1310	111E050F11XX
1322	111E025F11XX
<b>High Temp Version Model ID</b>	<b>High Temp Pump Head Specification #</b>
1303HT / 1403HT	111E140F12XX
1304HT / 1404HT	111E100F12XX
1308HT / 1408HT	111E070F12XX
1310HT	111E050F12XX
1322HT	111E025F12XX

### Dankoff Solar Pumps 2500 series Slowpump heads and Flowlight Booster Pump heads:

<b>Standard Version Model ID</b>	<b>Pump Head Specification #</b>
2505 / 2605	114E190F11XX
2507 / 2607 / 2910 / 2920	114E240F11XX
<b>High Temp Version Model ID</b>	<b>High Temp Pump Head Specification #</b>
2505HT / 2605HT	114E190F12XX
2507HT / 2607HT / 2910HT / 2920HT	114E240F12XX

There is no charge if the head cannot be repaired.

Edco provides a 1 year warranty on rebuilt heads.

## Other Items you may order through your dealer:

### Motor Brushes

Your motor will stop without warning when the brushes wear down. See your Instruction Manual for advice on how to check brushes for wear. Specify your pump model and motor voltage when ordering.

### Filter Cartridges

High capacity, low resistance 10-micron filters chosen for best performance.

10" Filter Assembly Kit (canister and one filter), order part# 11033

10" Filter Replacement Cartridge 2-Pack, order part# 11034

30" Filter and Foot Valve Assembly, plus spare 30" filter, order part# 11035

30" Filter Cartridges 3 Pack, order part# 11036

10" Hi Temp Filter Kit, Canister and one high temp filter, order part# 11058

10" Hi Temp Replacement Cartridge 2-Pack, order part# 11057

### Spare Pump Heads

#### 1300/1400-series Slowpump

1322 Pump Head, order part# 1322-R-HEAD

1310 Pump Head, order part# 1310-R-HEAD

1308/1408 Pump Head, order part# 1308-R-HEAD

1304/1404 Pump Head, order part# 1304-R-HEAD

1303/1403 Pump Head, order part# 1303-R-HEAD

For High Temp replacement pump heads, add -HT to the end of the part #.

#### 2500/2600/2900-series Slowpump or Booster Pump

2505/2600 Pump Head, order part# 2505-R-HEAD

2507/2607 Pump Head for Slowpump, order part# 2507-R-HEAD

2900 Pump Head for Flowlight Booster, order part# 2507-R-HEAD

For High Temp replacement pump heads, add -HT to the end of the part #.

### Installation and Service Manual

Download the Slowpump/Booster Pump Installation & Service Manual for design assistance and troubleshooting help.

