

SECTION E – SERVICE + REPAIR

Kamco have a full “Service and Repair” facility at its premises in St Albans, and can supply replacement parts for your pump.

When your Quantum was first supplied it was flow and pressure tested to ensure that it would perform to a high standard. However, since supplied, it may have been overheated, physically damaged or partially blocked by non-soluble matter.

If you are concerned that your Quantum may not be producing the same performance as when it left our factory there are a number of steps that you can take to test, and repair, your unit. These are not time consuming, do not require a high level of expertise and will not invalidate the warranty.

HOW TO CHECK THE FLOW / PRESSURE PERFORMANCE

We suggest these checks be conducted outside and not within a clients premises.

Test 1 - Pressure test

What you need: Pressure gauge 0-30 psi adapted to ¾ BSP male.

1. Fill the tank ½ full of water.
2. Point the flow reverser lever to the left.
3. Position the left hand valve to “Circulate”.
4. Position the right hand valve to “Dump”.
5. Attach one supply/return hose to the ¾” BSP nipples. (short circuiting the flow).
6. Attach the dump hose as normal.
7. Holding the end of the dump hose away from you to a suitable discharge point, switch on the motor for five seconds. You should see a strong jet of water.
8. Attach the pressure gauge into the hose end and turn the motor on for 30 seconds.
While the motor is running you should get a reading of 22-24PSI

Test 2 - Flow rate test

What you need: Empty clean 5 litre container (eg Powerflush FX2 container)

1. Repeat steps 1-7 of test 1
2. Hold the dump hose so that it will discharge water into the empty container.
3. When ready use an assistant to time how long it takes to fill the container.
You should get a reading of between 5 and 6 seconds.

Trouble shooting

If either the pressure is much less than 24 psi, or the flow rate takes much longer than 6 seconds, further investigation is required.

Inspection

1. Remove the 5 bolts from flange that attach the pump to the tank.
2. Twist and withdraw the pump assembly from tank.
3. Inspect the rotor cover at the bottom of the unit to ensure:
 - It is flat
 - There are no bolts damaged/missing
 - The O-ring has not been pushed out.
4. Inspect the inside of the impeller to make sure that there is no debris inside.
5. Check that there are 2 hoses securely connected from the flow reverser to the underside of the flange.

If none of the above faults are apparent please call the Kamco Technical Help line on 01727 875020