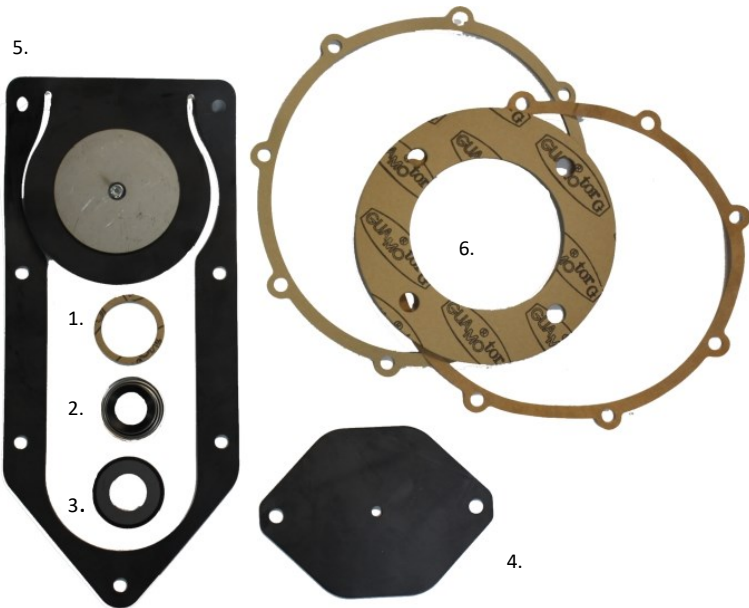


# Aussie Service Guide

## Aussie GMP Self Priming Pumps



### Aussie GMP Rejuvenation kit

All the essentials to keep your Aussie GMP pump in top condition ....

1. Flex washer (priming port)
2. Mech seal
3. Counterface
4. Front opening port gasket (semi trash versions only)
5. Check valve
6. Flex gaskets (will vary depending on kit)

- ☒ **CONVENIENT**
- ☒ **EASY TO FIT**
- ☒ **COST EFFECTIVE**

### Replacing Opening Port Gasket (Semi trash models only)

1. Unscrew opening port handles to remove cover.
2. Replace gasket & re-attach opening port cover.
3. Tighten handles and ensure that there are no leaks (leaks will prevent the pump from priming).



# Aussie Service Guide

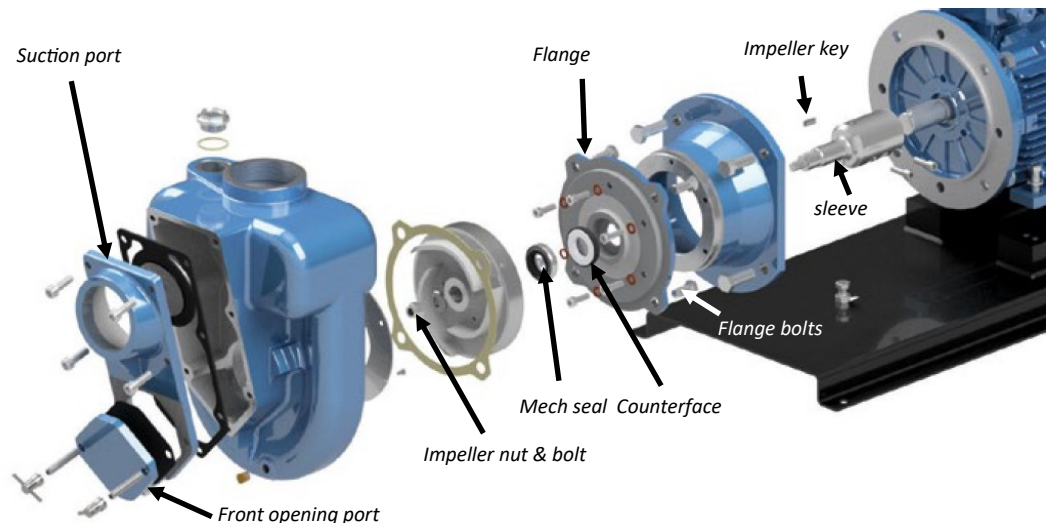
## Aussie GMP Self Priming Pumps

### Replacing Check Valve

1. Drain pump, disconnect pipe work and remove pump from installation.
2. Unscrew suction cover bolts (5 or 7 in total) and remove the suction cover.
3. Remove old and insert new check valve ensuring that hinge is on the top.
4. Re-install the suction cover



### Replacing Impeller, Mech Seal & Counterface



1. Remove suction port (non semi trash versions) or front opening port (semi trash versions) as above. This will assist in checking the impeller clearance later on.
2. Expose the impeller by detaching the pump casing by removing the flange bolts from the back of the pump flange.
3. Remove the impeller nut, and unscrew the impeller bolt set (this may come off with the impeller nut). Remove impeller key, the mechanical seal and sleeve. Clean off any old Loctite or silicon from the shaft or keyway.
4. Ease off the impeller and carefully extract the counterface, from the back flange.

# Aussie Service Guide

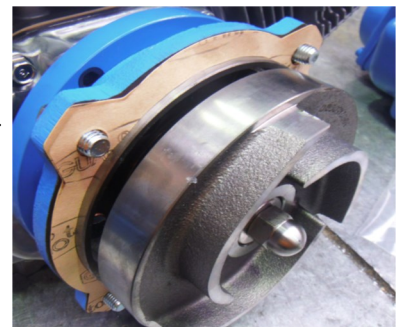
## Aussie GMP Self Priming Pumps

5. Check the surfaces of the new counterface and mech seal are free from dust and grease.
6. Install new counterface in pump flange, ceramic side out. Spray with silicon to make fitting easier. Push seal all the way to the bottom of the recess.
7. Prior to fitting, carefully push the mechanical seal over the sleeve then slide assembly onto the engine (or motor shaft). Use silicon spray to assist.  
**DO NOT USE A HAMMER IT WILL BREAK.**
8. NOTE: Ensure correct surfaces on counterface and mech seal are facing each other (as shown above).
9. Align the new impeller and push onto engine or motor shaft. Use silicon in the keyway, fit key and remove excess silicon.
10. Fit impeller bolt and nut using Loctite 243
11. Replace flange gasket and mount pump body.
12. Check the impeller clearance through the inspection window (semi trash) or suction port window. It should be between 0.5 and 1mm.
13. Refit the suction port cover or front opening port with new check valve and port gasket as required.
14. Hydrostatically test pump before reinstalling.

**Operators manuals & spares breakdowns available online.**

**Always quote the CAT number on the pump name plate to determine exact version of the pump.**

[aussiepumps.com.au](http://aussiepumps.com.au)



# Aussie Service Guide

## Aussie GMP Self Priming Pumps

### Trouble Shooting Guide

| Symptoms                              | Cause   | Action   |
|---------------------------------------|---|--|
| <b>Pump does not turn over</b>        | Impeller jamming                                  | Adjust impeller spacing, disassemble and clean         |
| <b>Failure to pump</b>                | Suction air leak                                  | Check and correct hose and couplings                   |
|                                       | Pump not properly primed                          | Prime pump correctly                                   |
|                                       | Speed too low or head too high                    | Consult pump specialist                                |
|                                       | Not enough head to open check valve               | Consult pump specialist                                |
|                                       | Air leak  | Check and rework suction line                          |
|                                       | Blocked suction                                   | Unblock suction  |
|                                       | Excessive suction lift                            | Consult pump specialist                                |
| <b>Reduced performance</b>            | Air pockets or small air leaks in suction line    | Locate and correct                                     |
|                                       | Obstruction in suction line or impeller           | Remove obstruction                                     |
|                                       | Insufficient submergence of the suction pipe      | Consult pump specialist                                |
|                                       | Excessively worn impeller or wear ring            | Replace impeller and/or wear ring                      |
|                                       | Excessive suction lift                            | Consult pump specialist                                |
|                                       | Wrong direction of rotation                       | See start-up instructions                              |
| <b>Engine or motor overloaded</b>     | Speed higher than planned                         | Reduce speed   |
|                                       | Liquid specific gravity too high                  | Consult pump specialist                                |
|                                       | Liquid handled of greater viscosity than water    | Consult pump specialist                                |
|                                       | Too large an impeller diameter                    | Trim impeller  |
|                                       | Low voltage                                       | Consult power supplier                                 |
|                                       | Stress in pipe connection to pump                 | Support piping properly                                |
|                                       | Packing too tight                                 | Loosen packing gland nuts                              |
| <b>Excessive noise</b>                | Misalignment                                      | Align all rotating parts                               |
|                                       | Excessive suction lift                            | Consult pump specialist                                |
|                                       | Material lodged in impeller                       | Dislodge obstruction                                   |
|                                       | Worn bearings                                     | Replace bearings                                       |
|                                       | Impeller screw loose or broken                    | Replace  |
|                                       | Cavitation (improper suction design)              | Correct suction piping                                 |
|                                       | Wrong direction of rotation                       | See start-up instructions                              |
| <b>Premature bearing failure</b>      | Balance line plugged or pinched                   | Unplug or replace                                      |
|                                       | Worn wear rings                                   | Replace  |
|                                       | Misalignment                                      | Align all rotating parts                               |
|                                       | Suction or discharge pipe not properly supported  | Correct supports                                       |
|                                       | Bent shaft  | Replace shaft  |
|                                       | Water or contaminants entering bearings           | Protect pump from environment                          |
|                                       | Lubrication to bearings not adequate              | Check manual   |
|                                       | Wrong type of lubrication                         | Check manual   |
| <b>Electric motor failure</b>         | High or low voltage                               | Check voltage with voltage metre                       |
|                                       | High electric surge                               | Monitor voltage and consult power supplier             |
|                                       | Poor electric connection                          | Turn power off, clean and check connections            |
|                                       | Overloads   | Check amperage. Do not exceed nameplate full load amps |
|                                       | Bearing failure                                   | Change bearings in motor                               |
|                                       | Cooling vent plugged (rodent, leaves, dirt, etc.) | Install proper screens                                 |
|                                       | Moisture or water in motor                        | Protect pump from environment                          |
| <b>Rapid wear on coupling cushion</b> | Misalignment                                      | Align  |
|                                       | Bent shaft  | Replace shaft  |