

Aussie Service Guide

Rejuvenation of an Aussie Fire Chief & Aussie Fire Captain

**BE PREPARED FOR FIRE SEASON ...
WHEN DID YOU CHECK YOUR SEALS LAST?**

Replacing Check Valve

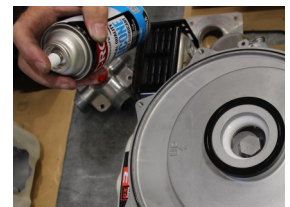
1. Unscrew suction cover bolts and remove the suction cover.
2. Remove old and insert new check valve ensuring that flat surface is placed against the suction cover and that hinge is on the top.
3. Re-install the suction cover ensuring larger internal lip is at the bottom.



Replacing Volute Casing

1. Unscrew the casing cover bolts and remove the front casing cover.
2. Remove the volute casing.
3. Install the new volute casing. Note that the up arrow should point to the top of the pump casing.
4. Carefully install o-ring around the casing and spray with silicon.
5. Check the lip of the casing cover is clean.
6. Reinstall casing cover. The casing cover applies pressure to volute casing. Tighten the first bolt loosely, then move to the bolt directly opposite and tighten fully. Go back to the first bolt and tighten fully.
7. Tighten all remaining casing bolts

Volute in position



Spray seal before fitting casing cover



Tighten opposite bolts to apply even pressure

Replacing Impeller

1. Expose the impeller by removing the volute casing the same way as above.
2. Loosen the impeller by tapping gently with a mallet in a counter clockwise direction. Turn impeller counter clockwise, and remove from shaft.



Watch an Aussie Fire Chief Wet End kit being fitted



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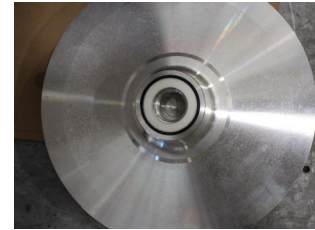
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3. Remove the mechanical seal from the impeller, and set it at the back side of new impeller. Use silicon spray.

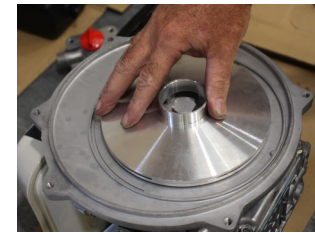
DO NOT USE A HAMMER IT WILL BREAK.

4. Screw the new impeller on engine shaft by turning in the clockwise direction, then tighten using nut on impeller.

5. Install the volute casing and casing cover as mentioned above.



Mech seal installed in impeller



Replacing Mechanical Seal

1. Remove the impeller as mentioned above.
2. Replace the mechanical seal at the back side of removed impeller and the counterface on the engine shaft.



Counterface installed on engine shaft

3. Check the ceramic surfaces of mechanical seal are free from dust, and install the impeller, volute casing and casing as described above.



Mech seal installed in impeller

Rejuvenation Kit / O-ring replacement

Use above instructions to remove casing, volute & impeller to expose the o-ring, liner rings and mechanical seals.

Kit contents vary by pump model and in some cases contain extra adjustable liners to make the kit suit more than one model.



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Renew or upgrade your pump with an Aussie Wet End Kit **only \$466**
(p/n: QP205SEKIT)
3/4" shaft only

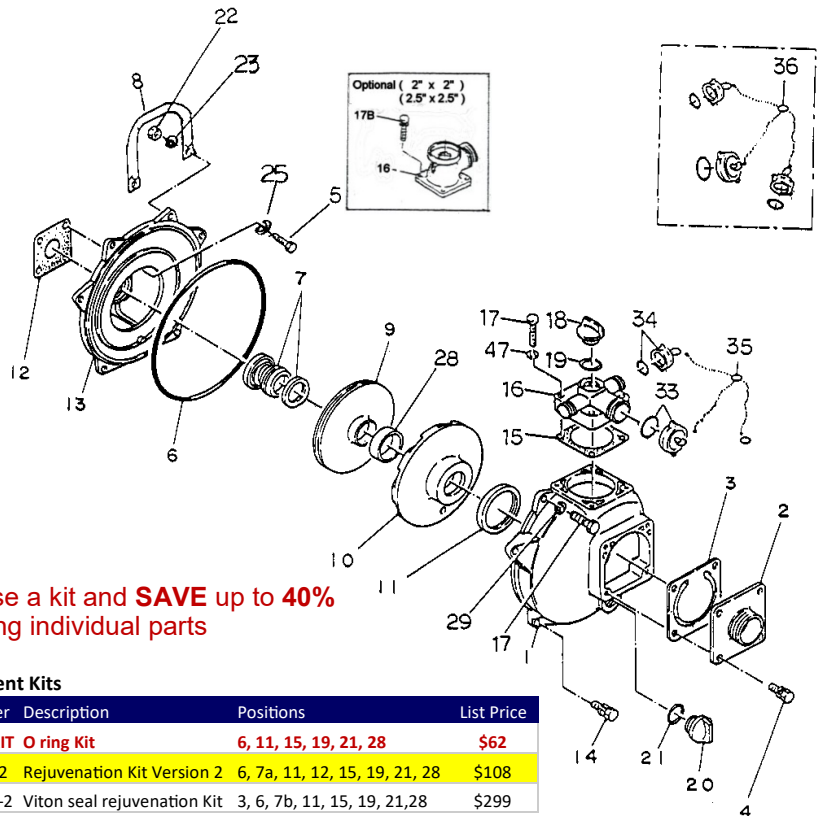


Aussie Pumps
5year
pump end warranty



NEW
Optional ...
Aussie Spike Protection
pressure relief valve ...
fits in place of priming plug

8 BAR, suits single impeller fire pumps
Stock code: Q078908-3408 **\$225^{+GST}**



Purchase a kit and **SAVE up to 40%**
on buying individual parts

Replacement Kits

Part number	Description	Positions	List Price
Q205S-ORKIT	O ring Kit	6, 11, 15, 19, 21, 28	\$62
Q205SREJ-2	Rejuvenation Kit Version 2	6, 7a, 11, 12, 15, 19, 21, 28	\$108
Q205SREJV-2	Viton seal rejuvenation Kit	3, 6, 7b, 11, 15, 19, 21, 28	\$299

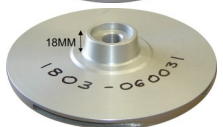
Pos	Part number	Description	Qty	List price
1	Q4364-100010	CASING	1	\$293
	Q7304-100010	CASING WITH LOGO		
2	Q1803-100160	2" SUCTION COVER	1	\$75
2	Q4725-060160-0011	1.5" SUCTION COVER	1	\$142
2	Q4904-000160	2.5" SUCTION COVER	1	\$142
3	Q1378-350350	CHECK VALVE	1	\$74
4	Q018105-0825	BOLT SET WITH SPRING WASHER	4	\$1
5	Q019115-0525	BOLT	4	\$1
6	Q048935-2550	O-RING (CASING)	1	\$29
7a	Q080311-2320	MECHANICAL SEAL	1	\$79
7b	Q080311-2320V	VITON MECHANICAL SEAL	1	\$134
8	Q1883-207010-0003	HANDLE	1	\$52
9a	Q1806-060031	IMPELLER 3/4" P Shaft (37mm boss)	1	\$211
9b	Q1803-060031	IMPELLER W Shaft (18mm boss)	1	\$211
9c	Q1814-060030	IMPELLER 5/8th P Shaft (37mm boss)	1	\$211
9d	Q2242-060030	IMPELLER for diesel engines	1	\$211
10	Q1803-100130	VOLUTE CASING	1	\$94
11	Q1378-330620	VOLUTE CASING PACKING	1	\$11
12	Q1211-390610	CASING COVER PACKING	1	\$4
13	Q9358-100020	MOUNTING FLANGE - P Type	1	\$207
13	Q1378-100020	MOUNTING FLANGE - W Type	1	\$207
14	Q018105-0825	BOLT SET WITH SPRING WASHER	4	\$1
15	Q1803-330360	DELIVERY COVER PACKING	1	\$15
16	Q1814-100090	DELIVERY COVER (3way Outlet)	1	\$87
16	Q1803-000090	DELIVERY ELBOW 2"	1	\$81
16	Q4904-000090	DELIVERY ELBOW 2.5"	1	\$207
17	Q010505-0845	BOLT	6	\$1
18	Q063121-1100ASS	FLOODING CAP WITH O-RING	1	\$21
19	Q048035-0300	O-RING (FLOODING CAP)	1	\$6
20	Q063121-1100ASS	FLOODING CAP WITH O-RING	1	\$21
21	Q048035-0300	O-RING (DRAIN CAP)	1	\$6
22	Q020915-0080	FLANGE NUT	2	\$1
23	Q040145-0080	WASHER	2	\$1
24,26,27,30,31,43	QSKIDSET	SKID SET	1	\$99
28	Q1803-521221	LINER RING	1	\$39
29	Q045125-0080	SPRING WASHER	2	\$1
36	QCAPS&CHAINS	CAPS & CHAINS	1	\$81
47	Q45125-0080	SPRING WASHER	4	\$1



3/4" P shaft impeller 9a



5/8" P shaft impeller 9c
(as used on GX160E
& GX200E only)



W shaft impeller 9b

Aussie Pumps

All prices exclude GST, valid May 2020

For further assistance contact
Aussie Pumps, 02 8865 3500

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Trouble Shooting Guide

Symptoms	Cause	Action
Pump does not turn over	Impeller jamming	Adjust impeller spacing, disassemble and clean
Failure to pump	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
Reduced performance	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
Engine or motor overloaded	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
Excessive noise	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
Premature bearing failure	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
Electric motor failure	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 amperage
	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
Rapid wear on coupling cushion	Misalignment	Align
	Bent shaft	Replace shaft

Aussie Fire Chief
out-performs &
out-features all others
in its class



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