

# Aussie Service Guide

## Rejuvenation of an Aussie Fire Chief & Aussie Fire Captain

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

April 2023

### Replacing Check Valve

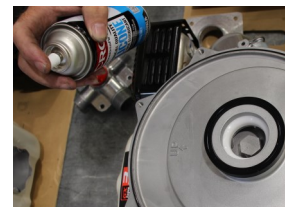
1. Unscrew suction cover bolts and remove the suction cover.
2. Remove old and insert new check valve ensuring that flat surface is placed against the suction cover and that hinge is on the top.
3. Re-install the suction cover ensuring larger internal lip is at the bottom.



### 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



**Aussie Pumps**

For further assistance contact  
Aussie Pumps, 02 8865 3500

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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.

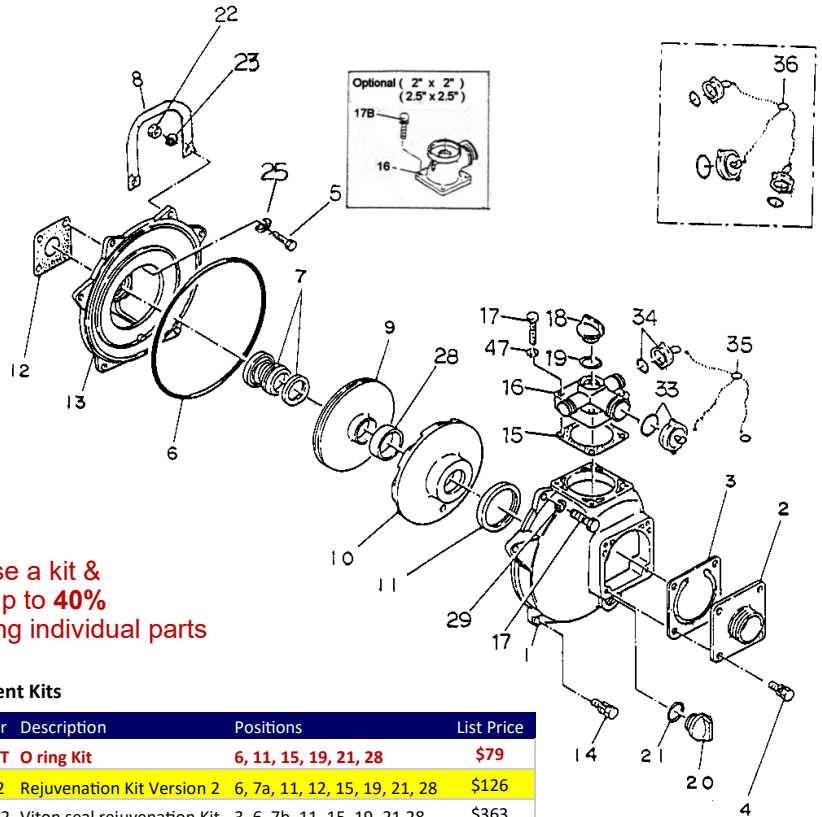
Kit contents vary by pump model and in some cases contain extra adjustable liners to make the kit suit more than one model.



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## Rejuvenation of an Aussie Fire Chief & Aussie Fire Captain

**Renew or upgrade** your pump with an Aussie Wet End Kit only **\$518** (p/n: QP205SEKIT) 3/4" shaft only



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

### Replacement Kits

Part number	Description	Positions	List Price
Q205S-ORKT	O ring Kit	6, 11, 15, 19, 21, 28	\$79
Q205SREJ-2	Rejuvenation Kit Version 2	6, 7a, 11, 12, 15, 19, 21, 28	\$126
Q205SREJ-V-2	Viton seal rejuvenation Kit	3, 6, 7b, 11, 15, 19, 21, 28	\$363

Pos	Part number	Description	Qty REQD	List price EACH
1	Q7304-100010	CASING WITH LOGO	1	\$371
2	Q1803-100160	2" SUCTION COVER	1	\$96
2	Q4725-060160-0011	1.5" SUCTION COVER	1	\$181
2	Q4904-000160	2.5" SUCTION COVER	1	\$181
3	Q1378-350350	CHECK VALVE	1	\$94
4	Q018205-0825	BOLT SET WITH SPRING WASHER	4	\$3
5	Q019115-0525	BOLT	4	\$5
6	Q048935-2550	O-RING (CASING)	1	\$38
7a	Q080311-2320	MECHANICAL SEAL	1	\$101
7b	Q080311-2320V	VITON MECHANICAL SEAL	1	\$170
8	Q1883-207010-0003	HANDLE	1	\$67
9a	Q1806-060031	IMPELLER 3/4" P Shaft (37mm boss)	1	\$267
9b	Q1803-060031	IMPELLER W Shaft (18mm boss)	1	\$267
9c	Q1814-060031	IMPELLER 5/8th P Shaft (37mm boss)	1	\$267
9d	Q2242-060030	IMPELLER for diesel engines	1	\$267
10	Q1803-100130	VOLUTE CASING	1	\$120
11	Q1378-330620	VOLUTE CASING PACKING	1	\$15
12	Q1211-390610	CASING COVER PACKING	1	\$6
13	Q9358-100020	MOUNTING FLANGE - P Type	1	\$262
13	Q1378-100020	MOUNTING FLANGE - W Type	1	\$262
14	Q018205-0825	BOLT SET WITH SPRING WASHER	4	\$3
15	Q1803-330360	DELIVERY COVER PACKING	1	\$21
16	Q1814-100091	DELIVERY COVER (3way Outlet)	1	\$111
16	Q1803-000090	DELIVERY ELBOW 2"	1	\$104
16	Q4904-000090	DELIVERY ELBOW 2.5"	1	\$262
17	Q010505-0840	BOLT	6	\$3
18	Q063121-1100ASS	PRIMING/DRAIN PLUG WITH O-RING	1	\$27
19	Q048035-0300	O-RING (FLOODING CAP)	1	\$8
20	Q063121-1100ASS	PRIMING/DRAIN PLUG WITH O-RING	1	\$27
21	Q048035-0300	O-RING (DRAIN CAP)	1	\$8
22	Q020915-0080	FLANGE NUT	2	\$3
23	Q040145-0080	WASHER	2	\$3
24,26,27,30,31,43	QSKIDSET	SKID SET	1	\$126
28	Q1803-521221	LINER RING	1	\$51
29	Q045128-0080	SPRING WASHER	2	\$3
36	QCAPS&CHAINS	CAPS & CHAINS	1	\$104
47	Q045125-0080	SPRING WASHER	4	\$3

**PUMP PROTECTION**  
Pressure relief valve  
(recommended when using a ball valve or quick action fire nozzles)

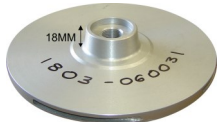
**10 bar, adjustable**, suits all QP fire & high pressure pumps,  
Inlet 1" BSP, Outlet 1" BSP  
Q078908-3410 **\$290<sup>+GST</sup>**



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 April 2023

For further assistance contact  
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# SELF PRIMING PUMP TROUBLESHOOTING GUIDE

## GET BACK IN ACTION FAST

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



**PUMP PROTECTION**  
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### Pump not priming? Fix it fast ...

Check out How Self Priming Pumps Work  
& our **TOP 5 troubleshooting tips**



Symptoms	Cause	Action
<b>Suction failure</b>	<b>TOP 5</b> <b>Air leak in suction line</b>	Check couplings, associated o-rings & hose all air tight
	Pump not properly primed	Fill pump body & refit priming plug
	Speed too low or head too high	Consult pump specialist
	<b>TOP 5</b> <b>Blocked suction</b>	Unblock suction strainer & suction hose
	Excessive suction lift	Check pump specification
	Air pockets or small air leaks in suction line	Locate and correct
<b>Reduced performance</b>	<b>TOP 5</b> <b>Obstruction in suction line or impeller</b>	Remove obstruction, ensure strainer fitted
	Insufficient submergence of the suction pipe	Increase submersion of strainer
	Excessively worn impeller or wear ring	Replace impeller and/or wear ring
	Excessive suction lift	Check pump specification
	Wrong direction of rotation	Refer to installation instructions
<b>Engine overload</b>	Speed higher than planned	Reduce speed
	Liquid handled of greater viscosity than water	Check pump specification
	Too large an impeller diameter	Trim impeller
	Low voltage	Consult power supplier
	Stress in pipe connection to pump	Support piping properly
<b>Excessive noise / vibration</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)	Check flow not impeded, i.e. suction hose too small, strainer blocked, gate valve part closed etc. Check duty point of application matches pump specs.
	Wrong direction of rotation	Refer to installation instructions
	Engine mounts deteriorated	Replace mounts, protect from fuel spills
<b>Leak from pump/engine joint</b>	<b>TOP 5</b> <b>Pump has been run dry</b>	Replace mech seal, & prime pump before starting
	Mech seal spring jammed	Clean out debris, replace mech seal
	Mech seal faces worn	Replace mechanical seal
<b>Premature engine failure</b>	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
<b>Engine does not start</b>	Wrong type of lubrication	Check manual
	<b>TOP 5</b> <b>Low oil shutdown is activated</b>	Ensure pump is level, add oil to engine
	Low fuel level	Add fuel
	Battery not charged	Recharge or replace battery
	Battery leads not connected	Clean battery connections and reconnect cables
	Engine or pump seized	Replace seized part

Refer to Honda manual for engine related troubleshooting

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