

Aussie Service Guide

Rejuvenation of an Aussie Mr T Twin Impeller

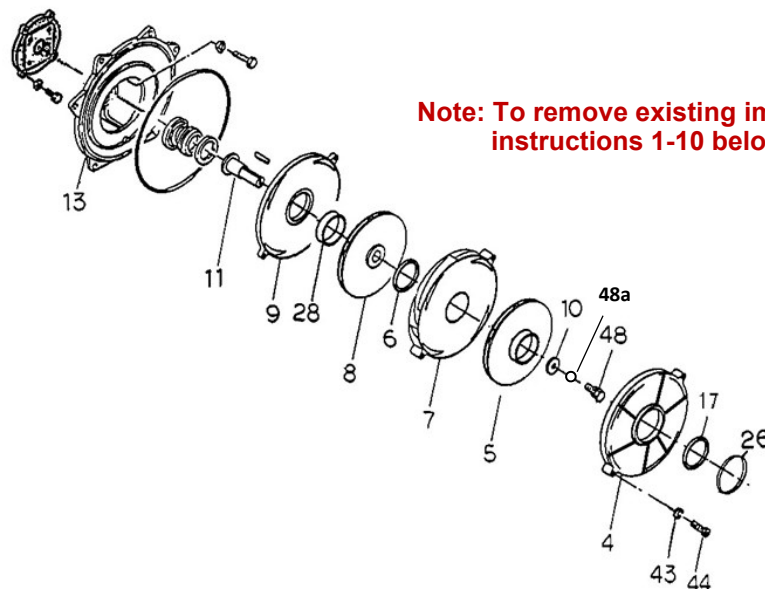
**BE PREPARED FOR FIRE SEASON ...
WHEN DID YOU CHECK YOUR SEALS LAST?**

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. (Torque: 12-15 Nm)



Replacing Impeller/Volute Assembly



Note: To remove existing impeller volute set, follow instructions 1-10 below in reverse first.

Note: if replacing an open/closed impeller pairing with the new closed/closed impeller pairing, the full volute assembly must also be replaced
(part number Q7207-990510 IMPELLER/VOLUTE SET contains No.4, 5, 6, 7, 8, 9, 10 26, 28, 43, 44, 48, 48a)

1. Insert LINER RING (NO 28) onto VOLUTE CASING (NO 9)
2. Install VOLUTE CASING 3 (No. 9) to Casing Cover
3. Insert IMPELLER 2 (No.8) to PUMP SHAFT (No.11).
4. Insert LINER RING 2 (No.6) into VOLUTE CASING 2 (No.7)
5. Set VOLUTE CASING 2 (No.7) to VOLUTE CASING 3 (No.9) .
6. Insert IMPELLER (No.5) in PUMP SHAFT (No.11).



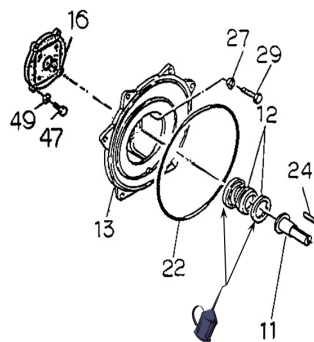
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7. Fix Impeller with IMPELLER WASHER (No.10), SPRING WASHER (No.48a) and BOLT (No.48) .(Torque:16-20 Nm (M8)). Use Threebond 1303N sealant or equivalent.
8. Insert LINER RING 3 (No.17) onto VOLUTE CASING (No.4) .
9. Set VOLUTE CASING (No.4) to VOLUTE CASING 2 (No.7). Fix Volute casing with two SEAL WASHERS(No.43) / BOLTS (No.44). (Torque: 5 Nm)
10. Attach O-RING (No.26) to VOLUTE CASING .

Installing back plate and mechanical seal



Note: To remove existing back plate or mechanical seal, follow instructions 1-8 below in reverse first.

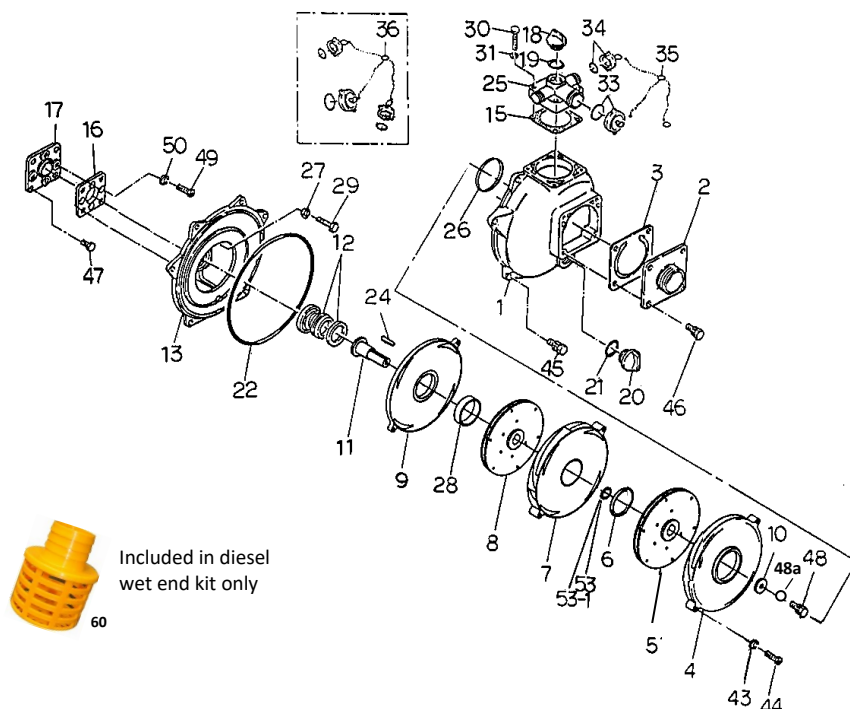
1. Set the CASING COVER SET PLATE(No.16) on to the Engine-Flange. Fix with four SEAL WASHERS (NO.49) / BOLTS (No.47). (Torque: 28-33 Nm)
2. Fix the CASING COVER (No.13) to the CASING COVER SET PLATE(No.16) with four SEAL WASHERS (No.27) / BOLTS (No.29) (Torque:16-20 Nm)
3. Insert MECHANICAL SEAL (Stationary No.12) into Casing Cover. Use silicon spray to ease it in.
4. Insert MECHANICAL SEAL(Rotary No.12) into PUMP SHAFT(No.11)
5. Install (screw in) PUMP SHAFT (No.11) to Engine Shaft.
6. Insert KEY (Item No.24) onto PUMP SHAFT. (No.11)
7. Attach O-RING (No.22) to CASING COVER (No.13)
8. Replace impeller/volute and front casing as covered earlier.

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.



Renew or upgrade your pump with an Aussie Wet End Kit
only **\$1,436**
(p/n: QPT205SLTKIT (petrol)
QPT205SLTDKIT (diesel))
1" shaft only



Purchase a kit and **SAVE up to 30%**
on buying individual parts

QPT-205SLT (Aussie Mr T) with a 1" threaded shaft

Pos	Kit	Part number	Description	Qty	List price
1		Q7304-100010	CASING WITH LOGO	1	\$293
2		Q1803-100160	SUCTION COVER	1	\$75
3		Q1378-350350	CHECK VALVE	1	\$74
4	IV	Q7207-060130	VOLUTE CASING	1	\$245
5	IV	Q7207-060040	IMPELLER - 2	1	\$206
6	IV, W, P	Q1878-081290	LINER RING - 2	1	\$120
7	IV	Q7207-060110	VOLUTE CASING - 2	1	\$220
8	IV	Q7207-060030	IMPELLER	1	\$398
9	IV	Q7207-060120	VOLUTE CASING - 3	1	\$193
10	IV	Q7207-251240	IMPELLER WASHER	1	\$24
11		Q1878-221010	PUMP SHAFT (w shaft)	1	\$171
11		Q1882-221010	PUMP SHAFT (1" p shaft)	1	\$171
12	W	Q080611-3325	MECHANICAL SEAL (w shaft)	1	\$320
12	P	Q080311-2930	MECHANICAL SEAL (1" p shaft)	1	\$320
13		Q4359-100020	MOUNTING FLANGE (w shaft)	1	\$228
13		Q1988-100020	MOUNTING FLANGE (1" p shaft)	1	\$237
14		Q1867-214010	FRAME (w shaft)	1	\$237
14		Q1977-214011	FRAME (1" p shaft)	1	\$237
15	O, P, W	Q1803-330360	DELIVERY COVER PACKING	1	\$15
16		Q1369-000600	CASING COVER SET PLATE -A (w shaft)	1	\$135
16		Q4357-000600	CASING COVER SET PLATE (1" p shaft)	1	\$136
17		Q019116-0625	BOLT	4	\$1
18		Q063121-1100ASS	FLOODING CAP WITH O-RING	1	\$21
19	O,P	Q048035-0300	O-RING (FLOODING CAP)	1	\$6
20		Q063121-1100ASS	DRAIN CAP WITH O-RING	1	\$21
21	O,W	Q048035-0300	O-RING (DRAIN CAP)	1	\$6
22	O,P,W	Q048935-2550	O-RING (CASING)	1	\$29
23		Q072330-2040	CUSHION RUBBER	4	\$19
24		Q051004-0443	KEY	1	\$14
25		Q1814-100090	DELIVERY COVER (3 WAY OUTLET)	1	\$87
26	O,P,W,IV	Q048220-0750	O-RING (VOLUTE CASING)	1	\$13
27		Q045822-0080	SEAL WASHER	4	\$6
28	O,P,W,IV	Q1803-521220	LINER RING	1	\$39
29		Q010505-0820	BOLT	4	\$1
30		Q010505-0845	BOLT	4	\$1
31		Q045125-0080	SPRING WASHER	4	\$1
32		Q010505-0850	BOLT	1	\$1
36		QCAPS&CHAINS	BALL CHAIN WITH CAP	1	\$81

Replacement Kits

KIT	Part number	Description	Positions	List Price
O	Q2055-ORKT	O RING KIT	15, 19, 21, 22, 26, 28,	\$62
P	QT205SLTREJ-2	REJUVENATION KIT (1" p shaft)	6, 12, 15, 19, 22, 26, 28	\$295
W	QT205SLTWREJ-2	REJUVENATION KIT (w shaft)	6, 12, 15, 21, 22, 26, 28	\$295
IV	Q7207-990510	IMPELLER/VOLUTE SET	4, 5, 6, 7, 8, 9, 10, 26, 28, 43, 44, 48, 48a	\$997

Pos	Kit	Part number	Description	Qty	List price
37		Q045125-0080	SPRING WASHER	1	\$1
38		Q020545-0080	NUT	1	\$1
39		Q020545-0100	NUT	8	\$1
40		Q020545-0100	NUT	4	\$1
41		Q045125-0100	SPRING WASHER	4	\$1
42		Q045125-0100	SPRING WASHER	8	\$1
43	IV	Q045129-0060	SPRING WASHER	2	\$1
44	IV	Q010509-0640	BOLT	2	\$1
45		Q018105-0825	BOLT SET WITH SPRING WASHER	6	\$3
46		Q018105-0825	BOLT SET WITH SPRING WASHER	4	\$3
47		Q018105-0820	BOLT SET WITH SPRING WASHER	4	\$3
48	IV	Q010809-0820	SS BOLT M8 Hi Tension 20mm	1	\$11
48a	IV	Q045129-0080	SPRING WASHER	1	\$3
49		Q014105-0815	SCREW	4	\$1
50		Q045125-0080	SPRING WASHER	4	\$1
51		Q010505-1045	BOLT	4	\$1
52		Q1867-214020	ENGINE BASE (w shaft)	1	\$194
52		Q1988-214021	ENGINE BASE (1" p shaft)	1	\$234
53		Q085283-4230	ADJUST LINER	1	\$9
53-1		Q085285-4230	ADJUST LINER	1	\$9
56		Q7207-081300	Liner Ring 3	1	\$222
60		QSTRAINER2"	2" Poly Strainer	1	\$40



**10 BAR, suits twin
impeller fire pumps**
Stock code: Q078908-3410
\$225*GST



Aussie Pumps

All prices exclude GST, valid Dec 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 contaminates 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 Mr T Twin
Top of it's class!

