

AUSSIE QP MINE BOSS TRANSFER PUMP MANUAL



Ref: QPMBTRANMANR1



IMPORTANT:

TO REDUCE RISK OF INJURY, READ OPERATING INSTRUCTIONS CAREFULLY BEFORE USING EQUIPMENT



Quality
ISO 9001

SAI GLOBAL

Revision: #1 (August 2012)

Australian Pump has developed a reputation for innovation and quality that has lead to a rapid market acceptance both in Australia and throughout the world. Aussie Pump products are used in Europe, United States, throughout South East Asia and the Pacific region. Our rapid growth is based on five simple principles.

Performance

A genuine dedication to deliver products that out perform and out feature all others, leading to better outcomes for users.

Quality

A relentless drive for quality that delivers lower through life costs and improved ecological outcomes

Value

A pricing policy that delivers excellent products at fair prices.

Prompt Delivery

A commitment to build and deliver on time

After Market Support

To provide through life support through well trained, professional and motivated distribution team both in Australia and throughout the World. Spares lists and replacement manuals are available on-line ... www.aussiepumps.com.au

TABLE OF CONTENTS

Table of Contents	2
Safety	3
Start up and installation details	4
Product specifications	4
Warranty terms	5
Service Tips	6
Troubleshooting	7
Pump Parts Breakdowns	8
Preparation for Long Term Storage	11

Keep this owner's manual handy so you can refer to it at any time. The Aussie Pump Owner's manual is considered a permanent part of the pump and should remain with it if resold.

The information and specifications included in this publication were valid at the time of printing however, Australian Pump Industries reserves the right to discontinue or change the specifications or design any time without notice and without incurring any obligation.

SAFETY ALERT



To get the best out of your Aussie Pump product these important warning notices need to be observed.



Please note that the pump operator's manual does not include detailed engine data. Check the engine manufacturer's manual, supplied with the product, for further information.

Do not operate this pump without reading this manual.

Always wear proper respiratory (mask), hearing and eye protection when operating the pump.

Never operate this equipment under the influence of drugs or alcohol.

No oil is supplied with the engine. Oil must be added in accordance with the engine manufacturer's instructions. (Relevant to four stroke engines only).

Do not use the pump in a gaseous or hazardous environment or near combustible material.

Never pump volatile, explosive, flammable or low flash point fluids. These fluids could ignite or explode.

Do not use the pump in an enclosed area, engine exhaust could build up and cause asphyxiation.

Do not refuel engine while operating. Shut engine down and allow to cool before refueling.

Always refuel in a well ventilated area, do not smoke or allow flames or sparks in the refueling area or where diesel is stored.

Do not over fill the fuel tank, as spilled fuel

can ignite if it comes into contact with hot engine parts or sparks. After refueling, make sure tank cap is closed properly and is secure.

Some engine components will get hot during operation. Do not touch engine components while engine is running or immediately after operation. For details check engine operator's manual.

Do not allow minors to operate the pump.

Familiarise yourself with the pump's controls with emphasis on how to stop the pump quickly.

Protect your pump from pressure spikes by installing a by-pass or safety valve if sudden shut off of the water flow is likely to occur.

Ensure discharge hose is not blocked or the flow restricted. Remove kinks before starting pump.

Pump must be primed before starting. Fill pump body with liquid. Pump must not be allowed to run without liquid passing through the casing. DO NOT run pump either dry or with insufficient water supply. Pump supply or delivery lines must not be shut off.

Do not open priming plug when pump is hot as water inside could be hot and pressurised.

Do not open pump housing when pump is in operation or start the pump with the clean-out cover removed.

Allow pump and engine to cool before performing maintenance or service.

If there is a possibility of freezing, drain pump when not in use.

This pump is capable of 7.6m suction lift at

When installing an Aussie self priming pump always remember that the closer the pump is placed to the source of supply the better the performance will be.

To ensure maximum capacity select a site that will permit the shortest and most direct suction piping and smallest vertical lift.

Set the pump on firm and level foundations.

Hydraulic Shock

If the water flow is suddenly terminated by closing a valve, without stopping the pump first, it can cause hydraulic shock. This can travel back to the pump causing serious damage. To prevent pump damage install a by-pass or safety valve

Connecting the Suction Hose

Use commercially available hose, hose connector and hose bands. The suction hose must be of reinforced non collapsible construction, suction hose length should not be longer than necessary as the longer the suction hose, the less delivery performance of the pump. Self priming time is also proportional to suction hose length!

Strainer should always be used on the end of the suction hose to keep solids out of the pump.

Check carefully to make sure there are no air leaks in the suction line.

Connecting the Discharge Hose

Use a commercially available hose, hose connector and hose bands. A large diameter hose is most efficient. Long, small diameter hoses will increase friction loss and reduce pump performance and adversely affect performance.

Priming

Remove the priming cap at the top of the delivery port. Fill pump body with water and refit priming cap tightly.

Open gate valve on delivery line if fitted.



Never attempt to operate pump without priming first. Extended dry operation will destroy pump seal. If unit has been operated dry, stop the engine immediately, allow the pump to cool before adding priming water.

Starting the pump

1. Turn on battery isolator switch
2. Turn engine key to first position, wait for glow light to go out then key fully.
3. If engine does not start check the emergency stop button has been reset.



Stopping the pump

Turn off pump with engine key.

This pump is fitted with an emergency stop button. After activation, turn engine key to off and reset stop button by rotating until it pops out.

Battery isolator can be locked off to prevent pump from operating.

Warranty

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

The benefits under the Aussie Pump warranty are in addition to other rights under Australian Consumer Law.

Aussie Quik Prime 5 year warranty

Australian Pump warrants that all Aussie QP self priming centrifugal pumps, whether used for domestic or commercial applications, are warranted to be free of faulty workmanship or material for a period of 5 years from the date of supply to the end user.



Note:- This warranty is limited to the cost of the product and does not include third party costs including pump installers, plumbers etc. unless expressly authorised by Australian Pump Industries in writing.

The warranty is valid only for the original consumer purchaser. Warranty is not automatically transferred if the goods are sold on as second hand items.

Aussie Pump 5 year warranty does not cover the following:-

1. Normal wear and tear.
2. Damage generated by removal or installation of the product.
3. Unauthorised repair or attempted repair (i.e. not authorised by Australian Pump)
4. Shipping or transit damage
5. Use of non-genuine parts.

Engine Warranty

Warranty for engines fitted to Aussie Pump products is the responsibility of the engine manufacturer or his representative. As such, it is subject to the particular manufacturer's stated guarantee, terms and conditions, and operating instructions included with the product.

Warranty Claims

When claiming warranty, consumers must give evidence to the local Aussie Pump service station of date of purchase, model and serial number of the product, and the claimant's name, address and telephone number.

To claim warranty, you will need to provide the following data:-

1. Written confirmation of the nature of your claim.
2. Proof of purchase.
3. Where necessary, full installation data, including installation design drawings where appropriate.
4. The product must be forwarded freight pre-paid to Australian Pump with prior written approval.

Costs generated by a service call from an authorised Aussie Pump service agent will incur a travel, removal and re-installation fee if the service agent is required to judge warranty issues.

In the event that the product is not readily accessible for inspection, warranty service will be denied or suspended pending availability of the whole item.

Warranty will be denied if product is found to have been abused, misused, or improperly installed.

Any unauthorized modification to the equipment will automatically void warranty.

Handy service hints

1. To maximize pump life, drain pump after use and flush out with clean, fresh water.
2. Read engine manufacturer's owner's manual thoroughly and service as recommended.
3. Store pump in a dry, safe location when not in use. If storing for long periods see 'Preparation for Long Term Storage' instructions page 11.
4. Viton seals are available for pumping a wide range of liquids. These include diesel fuel, and some agricultural chemical products. For details of compatibility, see your local Aussie Gold Distributor, or consult the manufacturer of the liquid.
5. Aussie Quik Prime pumps are specifically designed to pump water. Pumping other liquids may shorten life and impact on warranty. See above clause.
6. Pumping water containing solids will prematurely wear pump components, and may impact warranty.
7. Ensure that the correct size strainer is installed on the suction hose at all times, even on trash pumps. Check strainer must be submerged at all times.

Service/Installation hints

Systems requiring hydrostatic relief valve.

Fitting a hydrostatic relief valve in any installation should only be carried out by a pump or installation specialist. Such products offer limited hydrostatic relief. It is the responsibility of the installer to ensure that the performance of the valve meets the required application.

Hydrostatic Shock



Prevent hydrostatic shock by using thick planking either side of the hose where it crosses roadways.

Strainer Placement



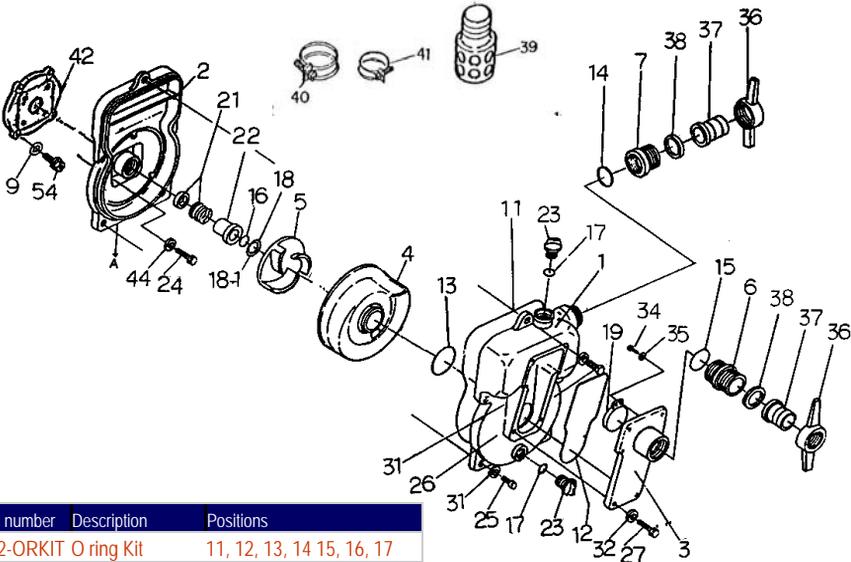
Place strainer on bed of rocks or inside an old bucket. Alternatively use a pontoon or float to keep pump strainer clear of debris.

TROUBLESHOOTING

Practically all breakdowns can be prevented by proper handling and maintenance inspections, but in the event of an issue check the Troubleshooting information shown below.

PUMP TROUBLESHOOTING		
SYMPTOM	POSSIBLE PROBLEM	SOLUTION
Pump does not take on water.	Not enough priming water in the housing?	Add water.
	Engine speed too low?	Increase throttle.
	Strainer plugged?	Clean strainer
	Suction hose damaged?	Replace or repair hose, and clamps
	Air leak at suction port?	Check that fittings are tight and properly sealed.
	Pump is located too high above water line?	Move pump closer to water.
	Debris collecting in pump housing?	Clean pump housing.
	Too much distance between impeller and volute.	Adjust clearance by adding shims or replace impeller. Min. .010" -Max. .020
	Water leaking out weep hole between pump and engine?	Check condition of mechanical seal and gaskets, between pump end and engine housing.
	Suction lift or discharge head too high.	Check hose/pipe installation.
Pump takes in water, little or no discharge.	Engine speed too low?	Increase throttle speed
	Suction strainer partially plugged?	Clean strainer
	Impeller/volute worn?	Adjust clearance by adding shims or replace impeller/volute
Suction hose leaks at inlet	Fittings/clamps are not sealed properly?	Tighten, replace or add clamp. (Keep extra seals on pump)
	Hose diameter is too large?	Use smaller diameter hose or replace hose
Discharge hose does not stay on coupling.	Pressure too high?	Check pressure, add additional clamp.
	Hose kinked or end blocked?	Check hose.
Impeller does not turn, pump is hard to start.	Impeller jammed or blocked?	Open pump cover and clean dirt and debris from inside housing.
	Impeller and volute binding?	Adjust clearance by removing shim from behind impeller.
	Defective engine?	See Engine Owners Manual.

Engine Troubleshooting; refer to engine manufacturer's manual



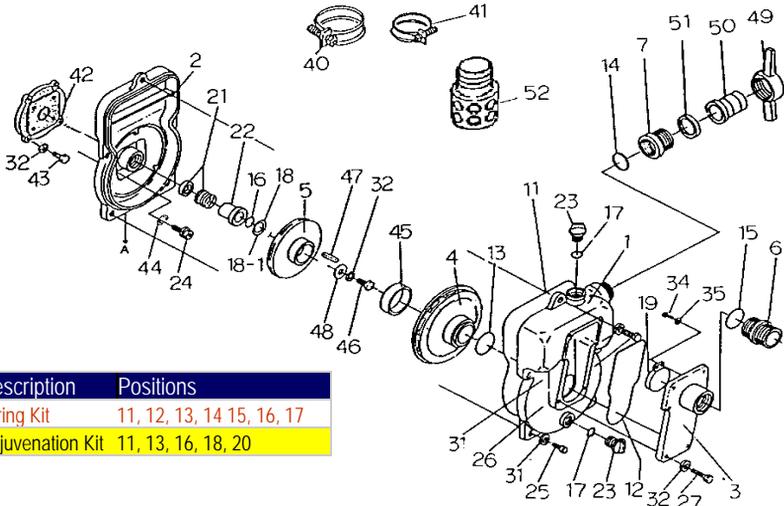
Part number	Description	Positions
Q402-ORKIT	O ring Kit	11, 12, 13, 14 15, 16, 17
Q402REJ	Rejuvenation Kit	11, 13, 16, 18, 21

Position	Part number (QP3310)	Part number (QP402)	Description	Qty
1	Q9430-100010	Q9430-100010	CASING	1
2	Q4421-100020	Q4421-100020	MOUNTING FLANGE	1
3	Q9430-100160	Q9430-100160	SUCTION COVER	1
4	Q9430-000130	Q9430-000130	VOLUTE CASING	1
5	Q4414-000030	Q4414-000030	IMPELLER for 1" keyed shaft	1
6	Q079000-4030-0011	Q079000-4040-0011	NIPPLE	1
7	Q079890-4030-0011	Q079890-4040-0011	SOCKET	1
11	Q048935-3850	Q048935-3850	O-RING (CASING)	1
12	Q048935-2400	Q048935-2400	O-RING (SUCTION COVER)	1
13	Q048131-0950	Q048131-0950	O-RING (VOLUTE CASING)	1
14	Q048131-1000	Q048131-1000	O-RING (SOCKET)	1
15	Q048131-1100	Q048131-1100	O-RING (NIPPLE)	1
16	Q048220-0240	Q048220-0240	O-RING (MECH SEAL SLEEVE)	1
17	Q048035-0300	Q048035-0300	O-RING(FLOODING/DRAIN CAP)	2
18	Q085283-4525	Q085283-4525	ADJUST LINER	1
18-1	Q085285-4525	Q085285-4525	ADJUST LINER	1
19	Q9430-350350	Q9430-350350	CHECK VALVE	1
21	Q080611-3630	Q080611-3630	MECHANICAL SEAL	1
22	Q081188-3056	Q081188-3051	MECHANICAL SEAL SLEEVE	1
23	Q063121-1100ASSY	Q063121-1100ASSY	FLOODING/DRAIN CAP WITH O-RING	2
36, 37, 38	QCOUPLING3*	QCOUPLING4*	HOSE COUPLING	2
39	Q074221-2100	Q074221-2100	STRAINER	2
40	Q093225-0090	Q093225-4000	WIRE HOSE BAND	2
41	Q093225-3000	Q093225-0110	WIRE HOSE BAND	1
42	Q4313-000600-0011	Q4313-000600-0011	CASING COVER SET PLATE	1
43	Q045822-0080	Q010505-1040	BOLT	4
44		Q045822-0080	SEAL WASHER	4
46	Q019115-0730	Q019115-0730	IMPELLER SET BOLT	1
47	Q052004-0422	Q052004-0422	KEY	1
48	Q4334-201240-0011	Q4334-201240-0011	IMPELLER WASHER	1

To ensure correct impeller is ordered compare vane type with impeller shown (i.e open vanes)



Pump Parts breakdown QP3310SL, QP3310SX, QP402SL, QP402SX



Part number	Description	Positions
Q402-ORKIT	O ring Kit	11, 12, 13, 14 15, 16, 17
Q402REJ	Rejuvenation Kit	11, 13, 16, 18, 20

Position	Part number (QP3310SL & SX)	Part number (QP402SL & SX)	Description	Qty
1	Q9430-100010	Q9430-100010	CASING	1
2	Q4421-100020	Q4421-100020	MOUNTING FLANGE	1
3	Q9430-100160	Q9430-100160	SUCTION COVER	1
4	Q1461-000130	Q1445-000130	VOLUTE CASING SL	1
4		Q1461-000130	VOLUTE CASING SX	1
5	Q1476-060030	Q4418-000030	IMPELLER SL L100	1
5		Q1461-060030	IMPELLER SX	1
6	Q079000-4030-0011	Q079000-4040-0011	NIPPLE	1
7	Q079890-4030-0011	Q079890-4040-0011	SOCKET	1
11	Q048935-3850	Q048935-3850	O-RING (CASING)	1
12	Q048935-2400	Q048935-2380	O-RING (SUCTION COVER)	1
13	Q048131-0950	Q048131-0950	O-RING (VOLUTE CASING)	1
14	Q048131-1000	Q048131-1000	O-RING (SOCKET)	1
15	Q048131-1100	Q048131-1100	O-RING (NIPPLE)	1
16	Q048220-0240	Q048220-0240	O-RING (MECH SEAL SLEEVE)	1
17	Q048035-0300	Q048035-0300	O-RING(FLOODING/DRAIN CAP)	2
18	Q085283-4525	Q085283-4525	ADJUST LINER	1
18-1	Q085285-4525	Q085285-4525	ADJUST LINER	1
19	Q9430-350350	Q9430-350350	CHECK VALVE	1
21	Q080611-3630	Q080611-3630	MECHANICAL SEAL	1
22	Q081188-3051	Q081188-3051	MECHANICAL SEAL SLEEVE	1
23	Q063121-1100ASSY	Q063121-1100ASSY	FLOODING/DRAIN CAP WITH O-RING	2
40	Q093225-3000	Q093225-4000	WIRE HOSE BAND	2
41	Q093225-3000	Q093225-0110	WIRE HOSE BAND	1
42	Q4313-000600-0011	Q4313-000600-0011	CASING COVER SET PLATE	1
43	Q019116-0625	Q019116-0625	BOLT	4
44	Q045822-0080	Q045822-0080	SEAL WASHER	4
45	Q1445-081220	Q1445-081220	LINER RING	1
46	Q019115-0625	Q019115-0730	IMPELLER SET BOLT	1
47	Q052004-0422	Q052004-0422	KEY	1
48	Q4334-201240-0011	Q4334-201240-0011	IMPELLER WASHER	1
49, 50, 51	QCOUPLING3"	QCOUPLING4"	HOSE COUPLING	2
52	Q074221-1080	Q074221-2100	STRAINER	2

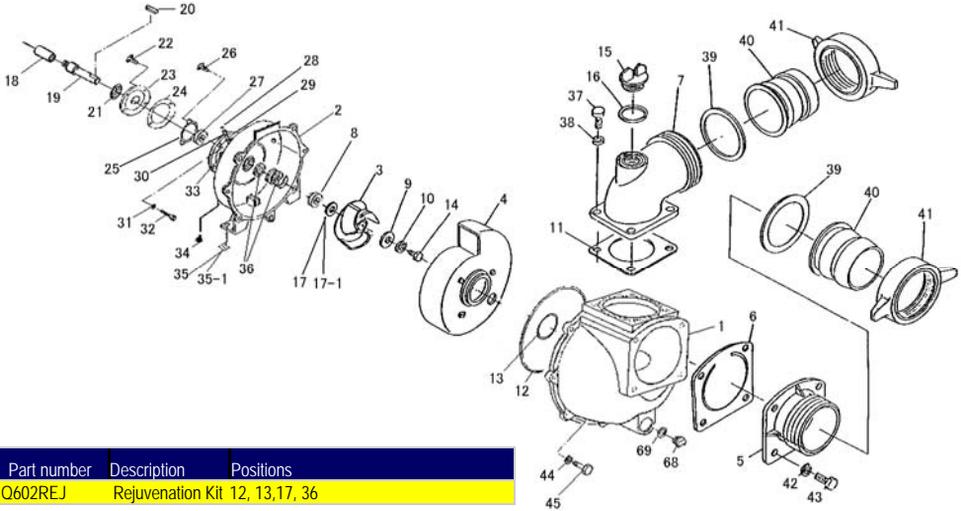
To ensure correct impeller is ordered compare vane type with those shown below;



SX Q1461-060030



SL Q1445-060030



Part number	Description	Positions
Q602REJ	Rejuvenation Kit	12, 13, 17, 36

Position	Part number	Description	Qty
1	Q1611-060010-0001	CASING	1
2	Q1611-060020-0001	MOUNTING FLANGE	1
3	Q1608-000030	IMPELLER	1
4	Q1601-000130	VOLUTE CASING	1
5	Q4601-000160-0001	SUCTION COVER	1
6	Q1601-350350	CHECK VALVE	1
7	Q1605-000090-0001	DELIVERY ELBOW	1
8	Q1611-220750	MECHANICAL SEAL SPACER	1
9	Q1412-201240-0011	IMPELLER WASHER	1
10	Q045125-0100	SPRING WASHER	1
11	Q1601-330360	DELIVERY ELBOW PACKING	1
12	Q048157-3750	CASING O-RING	1
13	Q048220-1200	O-RING	1
14	Q010505-1030	BOLT	1
15	Q063121-1202-0002	FLOODING CAP	1
16	Q074132-0503	FLOODING CAP PACKING	1
17	Q085283-4230	ADJUST LINER	1
17-1	Q085285-4230	ADJUST LINER	1
18	Q1473-221020	EXTENSION SHAFT	1
19	Q1611-221010	PUMP SHAFT	1
20	Q051107-0735	KEY	1
21	Q086235-4808	OIL SEAL	1
22	Q013119-0515	CAP SCREW	4
23	Q1473-130760	OIL ROOM COVER	1
24	Q1473-390780	OIL ROOM COVER PACKING	1
25	Q1473-201320	BEARING SET PLATE	1
26	Q013119-0515	CAP SCREW	3
27	Q067000-6207	BALL BEARING	1
28	Q1473-807150	OIL CAP	1
29	QE12003-8100	LONG NIPPLE	1
30	Q077225-3838	SOCKET	1

Check online for full parts listing ...
www.aussiepumps.com.au

To assist with correct parts selection state pump model number and engine when ordering parts.

Position	Part number	Description	Qty
31	Q045125-0100	SPRING WASHER	4
32	Q019116-0632	BOLT	4
33	Q1473-809373	OIL GAUGE	1
34	Q1473-807160	OIL PLUG	1
35	Q085283-0000	BASE LINER	1
35-1	Q085285-0000	BASE LINER	1
36	Q080540-4235	MECHANICAL SEAL	1
39,40,41	QCOUPLING6"	HOSE COUPLING ASSEMBLY	2
50,51	QSTRAINER6"	STRAINER	1
51	Q093225-6000	WIRE HOSE BAND	2
52	Q093225-0160	WIRE HOSE BAND	1
68	Q063121-1100ASSY	DRAIN CAP WITH O-RING	1
69	Q048035-0300	O-RING (DRAIN CAP)	1

RELIABLE PRODUCTS ...

RELIABLE PEOPLE



Ultralites .. Portable pumps



Twin Impellers ..Extra performance



Transfer pumps .. Move water fast



Trash pumps .. Dirty water solutions



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