



ELECTRIC PRESSURE WASHERS

P1515EPN - P1515EPNW

USER MANUAL



Model shown P1515EPNW

BEFORE USE YOU MUST READ THIS MANUAL COMPLETELY – RETAIN FOR FUTURE USE

BE

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INTRODUCTION



Attention: Read through the complete manual prior to the initial use of your pressure washer.

Using the Operator's manual

The operating manual is an important part of your pressure washer and should be read thoroughly before initial use, and referred to often to make sure adequate safety and service concerns are being addressed.

Reading the owner's manual thoroughly will help avoid any personal injury or damage to your machine. The information in this manual will offer you the most effective tools for cleaning as well as the safest. By knowing how best to operate this machine you will be better positioned to show others who may also operate the unit.

Notice

Actual pressure released at the point of discharge may vary by machine due to varying factors including: Volume of water being fed to the machine by the water source, the inclusion of a Chemical injector in the line, or variations in Engine performance



Record Identification Numbers

Pressure Washer

If you need to contact an Authorized Dealer or Customer Service line (1-866-850-6662) for information on servicing, always provide the product model and identification numbers.

You will need to locate the model and serial number for the machine and record the information in the places provided below.

Date of Purchase:

Dealer Name:

Dealer Phone:

Product Identification Numbers

Model Number:

Serial Number:



SAFETY

UNDERSTANDING THE MACHINE SAFETY LABELS

The machine safety label shown below is placed on your machine to draw attention to potential safety hazards.

CAUTION Gun kicks back - Hold with both hands.

WARNING Risk of explosion - Do not spray flammable liquid.

CAUTION To reduce risk of injury, read operating instructions carefully before using.

WARNING Risk of injection or injury to persons or animals - Do not direct discharge stream at persons or animals.

**STORE INDOORS, COLD WATER USE ONLY,
CONNECT TO INDIVIDUAL BRANCH CIRCUIT ONLY**

Save these Instructions

SAFETY RULES



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

The safety alert symbol (▲) is used with a signal word (DANGER, CAUTION, WARNING), a pictorial and/or a safety message to alert you to hazards.

DANGER indicates a hazard which, if not avoided, will result in death or serious injury.

WARNING indicates a hazard which, if not avoided, could result in death or serious injury.

CAUTION indicates a hazard which, if not avoided, might result in minor or moderate injury.

NOTICE indicates a situation that could result in equipment damage.
Follow safety messages to avoid or reduce the risk of injury or death.

Hazard Symbols and Meanings

			
EXPLOSION	FIRE	ELECTRIC SHOCK	TOXIC FUMES
			
KICKBACK	HOT SURFACE	FLYING OBJECTS	SLIPPERY
			
FALL	FLUID INJECTION	MOVING PARTS	READ MANUAL

⚠ WARNING



Use of pressure washer can create puddles and slippery surfaces.



Kickback from spray gun can cause you to fall.

- Operate pressure washer from a stable surface.
- The cleaning area should have adequate slopes and drainage to reduce the possibility of a fall due to slippery surfaces.
- Be extremely careful if you must use the pressure washer from a ladder, scaffolding, or any other similar location.
- Firmly grasp spray gun with both hands when using high pressure spray to avoid injury when spray gun kicks back.

⚠ WARNING



The high pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation.

Spray gun traps high water pressure, even when engine is stopped and water is disconnected, which can cause injury.

- DO NOT allow CHILDREN to operate pressure washer.
- NEVER repair high pressure hose. Replace it.
- NEVER repair leaking connections with sealant of any kind. Replace o-ring or seal.
- NEVER connect high pressure hose to nozzle extension.
- Keep high pressure hose connected to pump and spray gun while system is pressurized.
- ALWAYS point spray gun in safe direction and squeeze spray gun trigger, to release high pressure, every time you stop engine.
- NEVER aim spray gun at people, animals, or plants.
- DO NOT secure spray gun in open position.
- DO NOT leave spray gun unattended while machine is running.
- NEVER use a spray gun which does not have a trigger lock or trigger guard in place and in working order.
- Always be certain spray gun, nozzles and accessories are correctly attached.

⚠ WARNING

Risk of electrocution.

Contact with power source can cause electric shock or burn.

- NEVER spray near power source.
- NEVER use the pressure washer in the rain.
- Use only extension cords that are intended for outdoor use and the socket must be watertight.

⚠ WARNING

Starter and other rotating parts can entangle hands, hair, clothing, or accessories.

- NEVER operate pressure washer without protective housing or covers.
- DO NOT wear loose clothing, jewelry or anything that may be caught in the starter or other rotating parts.
- Tie up long hair and remove jewelry.

⚠ WARNING

Risk of eye injury.

Spray can splash back or propel objects.

- Always wear safety goggles when using this equipment or in vicinity of where equipment is in use.
- Before starting the pressure washer, be sure you are wearing adequate safety goggles.
- NEVER substitute safety glasses for safety goggles.

NOTICE

High pressure spray may damage fragile items including glass.

- DO NOT point spray gun at glass when using red 0° spray tip.
- NEVER aim spray gun at plants.



SAFETY

WARNING

- Stay alert and attentive.
- Do not use when fatigued or under the influence of alcohol or drugs.
- Pressure washer must be in upright position during use.

NOTICE

Improper treatment of pressure washer can damage it and shorten its life.

- If you have questions about intended use, ask dealer or contact nearest authorized dealer.
- NEVER operate units with broken or missing parts, or without protective housing or covers.
- DO NOT by-pass any safety device on this machine.
- DO NOT operate pressure washer above rated pressure.
- DO NOT modify pressure washer in any way.
- Before starting pressure washer in cold weather, check all parts of the equipment to be sure ice has not formed there.
- NEVER move machine by pulling on hoses. Use handle provided on unit.
- Correct all defects before operating pressure washer.
- Use clean water and neutral detergent only.
- The rating voltage (V/Hz) of the appliance has to be in compliance with the local power supplying voltage.
- Only a professional electrician should reconnect or change plug or wire.
- Do not pluck the wire.
- Keep the wire away from heat and sharp edges.
- If the pressure washer stops working, immediately turn the power off.
- Make sure to turn the power switch to off before unplugging the power cord.
- Only use spare parts from the manufacturer.



Features

DESCRIPTION

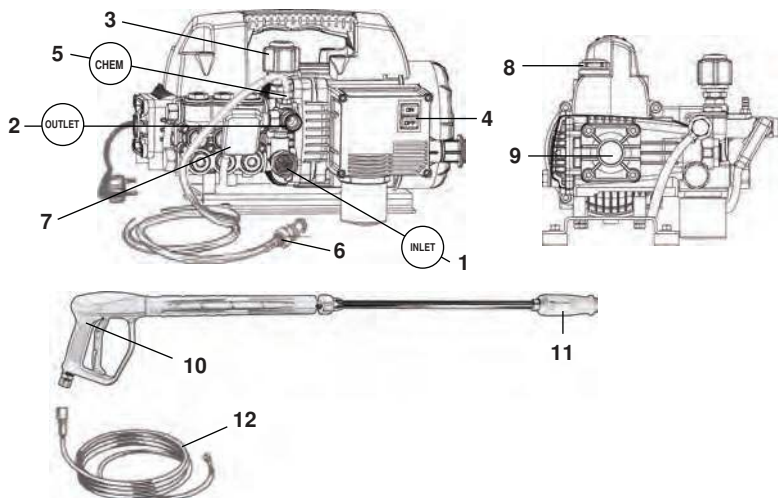
This lightweight, portable high-pressure washer makes the toughest clean-up tasks faster and easier. Weighing only 49 pounds, you can take it virtually anywhere. Ideal for light industrial applications and for home owners to wash the car, the boat, the pool and patio. Use it to clean rain gutters, driveways, lawn equipment and recreational vehicles.

Each unit comes complete with a 25-foot high-pressure hose, gun and lance with variable spray nozzle (up to 45 o), and low-pressure soap injection system.

Easy to carry - easy to use. Just remove the travel plug, attach to a garden hose, and plug into a standard 230V-13 amp circuit. Then you're ready to wash your troubles away.

SPECIFICATIONS

Pressure Washer Model	P1515EPN
Maximum Volume	1.6 GPM
Maximum Pressure	1500 PSI
Single Phase Motor Power	1.5 HP
Motor Protector	Current Thermal Overload
Motor Protection Grade	ISO IP54
Maximum Inlet Temperature	140°F
Maximum Suction Depth	3.3 ft.
Hose Length	25 ft.
Cord Length	23 ft. Power Cord
Weight	49.0 lbs.
Oil Capacity	14 oz.
Oil Type	15W-40 SAE
Dimensions	16.5" x 11.8" x 11.0"

COMPONENTS

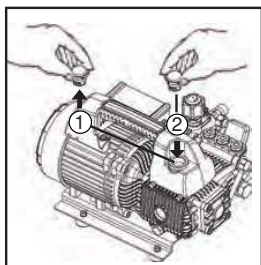
1. Inlet
2. Outlet
3. Pressure Adjustment Knob
4. On/Off Switch
5. Chemical Injector
6. Chemical Filter
8. Oil Dipstick
7. Auto-start System
9. Oil Level Indicator
10. Metal Gun
11. Variable Nozzle
12. High Pressure Hose

Installation

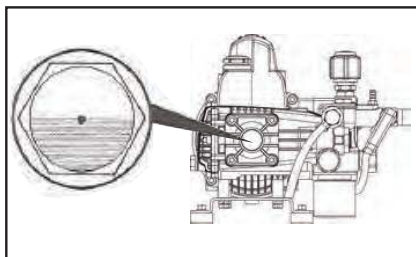
CONNECTION OF HIGH PRESSURE HOSE

NOTICE

THE MACHINE MUST BE PLACED IN A HORIZONTAL POSITION, ON A LEVEL SURFACE.



Replace the red oil travel plug (1) with the yellow dipstick (2).

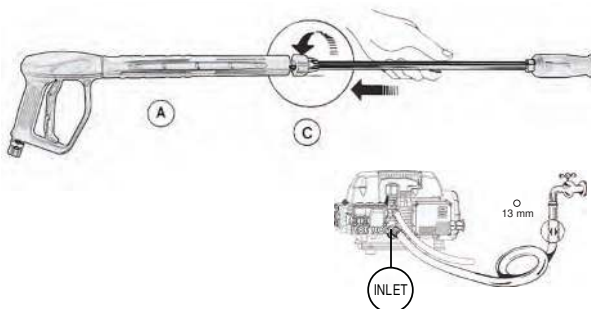
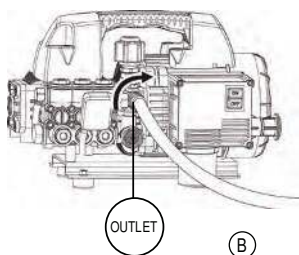


Check that the oil in the sight glass is at the halfway level.

1. Connect one end of the high pressure hose to the gun (A) and the other to the outlet connection (B).
2. Assemble the lance by pushing the two halves together and then fix by turning the connector (C).

CONNECTION TO WATER SUPPLY

1. The maximum temperature of the inlet water must not exceed 140°F.
2. Connect the water supply to the INLET port by means of a reinforced hose (200 PSI) with internal diameter of no less than 13 mm (1/2").
3. Considering that the water flow decreases in accordance with the length of the hose, make sure that the quantity of water reaching the machine is at least 2.7 GPM.





INSTALLATION

CONNECTION TO ELECTRICAL SUPPLY

1. Make sure that the main voltage is the same as shown on the identification label on the machine.
2. Make sure that the plug complies with your local regulations, and that it is provided with ground connection.
3. The power outlet must be protected by a residual current circuit breaker having a sensitivity of 30 milli-amp.
4. Do not connect other appliances to the same outlet.
5. Insert the plug after making sure that the switch on the machine is in the OFF position.

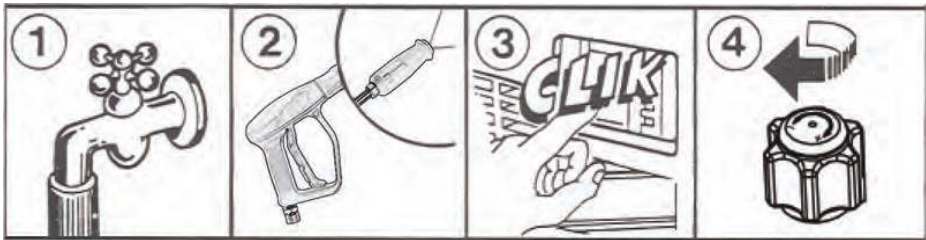
Operation

STARTING THE MACHINE

WARNING

In case of power failure during operation, turn the machine OFF for safety reasons.

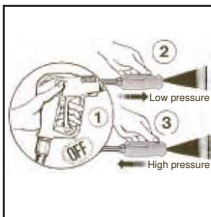
1. Turn on the water.
2. Set the pressure to zero by turning the knob counterclockwise.
3. Switch on the unit.
4. Hold the gun in the open position for a few seconds to allow the air to escape from the hoses.
5. At this point adjust the machine to your pressure requirement and you are ready to begin.



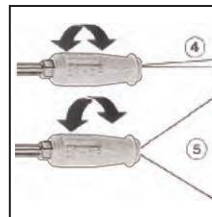
CHECKING AND CHANGING THE OIL

- The level of the oil must be checked periodically.
- The first important oil change must be carried out after the first 20 hours of work and successively every 150 hours.
- In any case we suggest an oil change at least once a year.
- Oil type: 15W-40 SAE
- Capacity: 14 oz.

HOW TO USE THE VARIABLE NOZZLE

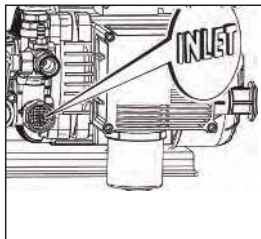


A) Selection of high or low pressure by push-pull action. The selection of the pressure must be carried out with the gun in closed position (1).



B) Adjustment from straight (4) to fan (5) of water jet by simple turning of the NOZZLE.

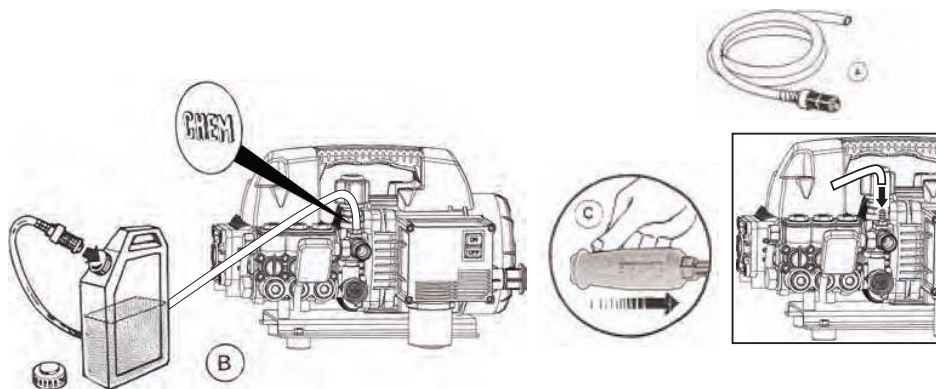
CHECKING THE WATER FILTER



It is important to check the filter before using the machine. Remember that a well-cleaned filter means good performance and long life for your machine.

HOW TO USE THE DETERGENT KIT

The unit can suck and mix detergents and other liquid chemicals thanks to an automatic device incorporated in the unit itself, which is remote-controlled by operating the variable nozzle. The unit is equipped with a chemical suction kit (Fig A).



- Fit the siphon hose into the chemical injector and filter into chemical container (Fig. B).
- Select low pressure with the variable nozzle (Fig. C)
- At this point the suction and mixing of the chemical will start automatically.
- When you wish to stop using chemicals in order to clean or rinse, simply release the gun trigger and adjust the variable nozzle to high pressure.
- At this point the chemical injection automatically stops.
- If you foresee not using the unit for a long period of time, we suggest to clean the chemical suction kit with clear water to avoid chemical deposit build-up.

GENERAL PRECAUTIONS FOR USE

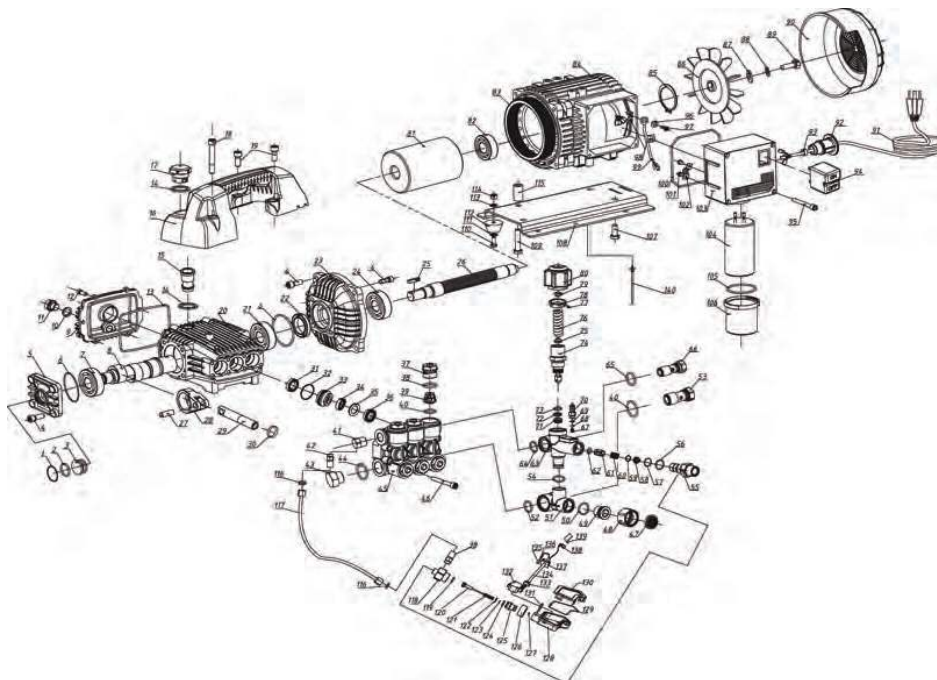
1. Keep the machine out of the reach of children.
2. High pressure water jets are potentially dangerous if used incorrectly. In particular, the jet must not be directed against persons or animals, electrical equipment or the machine itself. **DO NOT USE** the machine when persons and/or animals are within the reach of the jet.
3. The user must operate the machine in safe conditions and situations avoiding any situations of potential danger to himself or other persons. In particular the user will have to:
 - Avoid operating in unstable balance conditions.
 - Remember that the high pressure jet generates a recoil when the gun is opened. The force of this recoil is less than 3.0 pound-force.
 - Use adequate protective clothing.
 - Wear protective goggles and anti-slip rubber shoes.
 - Avoid contaminating the environment with polluting, toxic or harmful substances.
4. This machine is built in compliance with the requirements of the current safety regulations. The use of electrical appliances involves the respect of some basic rules:
 - Do not touch electrical parts or components.
 - All operations of inspection, maintenance or repair must be made by qualified personnel only. **ALWAYS** disconnect the plug before proceeding to any of the above mentioned operations.
5. Do not pull power cord to unplug. Do not pull high pressure hose to move unit.
6. Before using the machine, inspect power cord to make sure it is not damaged. If it is damaged, have it replaced by qualified personnel. Replace power cord only with a cable of the same type as the original, this can be identified by the marking on the outer sleeve. Do not damage or effect risky repair on power cord.
7. Before using the machine, inspect high pressure hose to make sure it is not damaged. In case of replacement make sure the new hose has at least the same specifications as the original. Technical specifications (maximum working pressure, date of manufacture, name of manufacturer) must be marked on the outer sleeve of hose.
8. While the machine is running, do not cover it and do not place it in an enclosed space with insufficient ventilation.
9. Do not leave the machine running for more than 5 minutes with the gun closed. Should it run for a longer period, the temperature of the recirculating water will increase rapidly and could risk damaging the pump and pump seals.
10. When the machine is not in use, lock gun trigger in safe position to prevent it from being opened by accident.
11. For the sake of safety use only approved spare parts and accessories.

Troubleshooting

TROUBLESHOOTING CHART

Problem	Cause	Correction
Pump running normally but pressure does not achieve rated values	Pump sucking air Valves worn or dirty Unloader packing worn Nozzle incorrect or worn Worn piston packing Dirty filter	Check that hoses and fittings are air tight Check, clean or replace Check and replace Check and replace Check and replace Check and clean
Fluctuating pressure	Valves worn or stuck Pump sucking air Worn piston packing Dirty filter	Check, clean or replace Check that hoses and fittings are air tight Check and replace Check and clean
Pressure drops after period of normal use	Nozzle worn Valves worn, dirty or stuck Unloader packing worn Worn piston packing Dirty filter	Check and replace Check, clean or replace Check, clean or replace Check and replace Check and clean
Pump noisy	Pump sucking air Valves dirty or worn Worn bearings Water too hot Dirty filter	Check that hoses and fittings are air tight Check, clean or replace Check and replace if necessary Reduce temperature Check and clean
Presence of water in oil	High humidity in air Piston packing and oil seal worn	Check and change oil twice as often Check and replace
Water dripping from under pump	Piston packing worn The o-rings of piston guide or retainer worn	Check and replace Check and replace
Oil dripping	Oil seal worn	Check and replace
The motor does not start when switched on	The plug not well connected or lack of power supply	Check plug, cable and switch
When switching on the unit, the motor hums but does not turn on	The main voltage is insufficient, lower than the minimum required The pump is stuck or frozen Incorrect extension cord	Check that the main power supply is adequate Check, clean or replace Check and replace

Parts List



ITEM	PART #	DESCRIPTION	QTY	ITEM	PART #	DESCRIPTION	QTY
1	A1104600	Clip ring-ss $\phi 1.2 \times \phi 27.6 \times 4$	1	16	A1400401	Handle	1
2	M3001400	O-ring- $\phi 20.26 \times \phi 2.62$	1	17	A1101100	Oil plug	1
3	A1104210	Oil level indicator	1	18	L1000801	Screw-M8 $\times 40$	1
4	L1000300	Screw-M8 $\times 20$	14	19	L1000802	Screw-M6 $\times 16$	2
5	A1100330	Crankshaft cover	1	20	A1100110	Crankcase	1
6	M3002300	O-ring- $\phi 55.25 \times \phi 2.62$	2	21	W4000600	Ball bearing-6206	1
7	W4000101	Ball bearing-6305	1	22	M2001000	Oil seal- $\phi 30 \times \phi 50 \times 7$	1
8	A1104500	Crankshaft	1	23	A1104300	Motor flange	1
9	A1100210	Crankcase cover	1	24	I23001500	Ball bearing-6304	1
10	M3001500	Seal- $\phi 12 \times \phi 17.5 \times 2$	1	25	L1003201	Flat key-5 $\times 20$	1
11	A1101500	Oil drain plug	1	26	I23001600	Motor shaft	1
12	L1000400	Screw-M6 $\times 16$	6	27	A1100700	Plunger pin- $\phi 9 \times 23$	3
13	M3001900	O-ring- $\phi 101 \times \phi 2.8$	1	28	A1100600	Connecting rod	3
14	M3001700	Seal- $\phi 24 \times \phi 29 \times 2.5$	1	29	A1103500	Ceramic coating plunger	3
15	F1201800	Oil pipe	1	30	M3002000	O-ring- $\phi 12.37 \times \phi 2.62$	3



PARTS LIST

ITEM	PART #	DESCRIPTION	QTY	ITEM	PART #	DESCRIPTION	QTY
31	M2001200	Oil seal- $\phi 15 \times \phi 24 \times 6/7$	3	66	A2301200	Bolt	1
32	M3001200	O-ring- $\phi 26.7 \times \phi 1.78$	3	67	A1302200	Spring- $\phi 0.25 \times \phi 5.25 \times 7$	1
33	A1401400	Packing retainer-6.5mm	3	68	W4000300	Ball- $\phi 5.5$	1
34	M1000802	Secondary packing- $\phi 15 \times \phi 22 \times 5.5$	3	69	M3001600	O-ring- $\phi 3.68 \times \phi 1.78$	1
35	M1006100	Compaction pad- $\phi 15 \times \phi 22 \times 2$	3	70	A1302300	Chemical tube bard	1
36	M1000600	Packing- $\phi 15 \times \phi 24$	3	71	A1301100	Seat	1
37	A1200800	Valve plug	6	72	M3005301	Backup ring- $\phi 9.91 \times \phi 12.61 \times 1.24$	1
38	M3001000	O-ring- $\phi 17.12 \times \phi 2.62$	6	73	M3000800	O-ring- $\phi 9.25 \times \phi 1.78$	1
39	A1200300	Valve assembly	6	74	A1300502	Unloader piston	1
40	M3001101	O-ring- $\phi 15.54 \times \phi 2.62$	7	75	A1300700	Spring seat	1
41	A1402640	Adaptor	1	76	A1300400	Spring- $\phi 4 \times \phi 14.5 \times 45.5$	1
42	A1402650	Adaptor	2	77	L1000100	Screw-M4 $\times 4$	1
43	A1200901	Plug	1	78	A1300300	Jam nut	1
44	A1202601	Washer- $\phi 21 \times \phi 27 \times 2$	1	79	A1300710	Spring seat	1
45	A1200120	Manifold	1	80	A1300101	Knob	1
46	L1000200	Screw-M6 $\times 55$	8	81	I43006400	Rotor	1
47	42000300	Inlet filter-washer w/screen	1	82	I23001100	Ball bearing	1
48	A1301500	Inlet swivel nut	1	83	I10010000	Stator	1
49	A1301320	Inlet nipple	1	84	A1400100	Motor housing	1
50	M3000100	O-ring- $\phi 17.17 \times \phi 1.78$	1	85	L1002901	Clip ring- $\phi 47$	1
51	A2301100	Inlet T connector	1	86	A1400200	Motor fan	1
52	M3003700	O-ring- $\phi 21.89 \times \phi 2.62$	1	87	L1001500	Plain washer- $\phi 8$	1
53	A2301300	Bolt	1	88	L1001600	Lockwasher- $\phi 8$	1
54	M3002700	O-ring- $\phi 12.2 \times \phi 2.4$	2	89	L1003701	Screw-M8 $\times 20$	1
55	A1402660	Outlet nipple-M22 $\times 1.5$	1	90	A1400300	Fan cover	1
56	M3003300	O-ring- $\phi 14 \times \phi 1.78$	1	91	31018200	Supply cord	1
57	M3005200	O-ring- $\phi 12 \times \phi 1$	1	92	A1400800	Strain relief	1
58	A1302101	Nozzle-unloader	1	93	37014000	Gasket	1
59	M3005100	O-ring- $\phi 8 \times \phi 1$	1	94	33004000	Power switch	1
60	A1301700	Spring- $\phi 0.5 \times \phi 6.5 \times 18$	1	95	L1000401	Screw-M5 $\times 60$	4
61	A1301601	Outlet valve	1	96	I21000500	Gasket	1
62	M3000900	O-ring- $\phi 3.63 \times \phi 2.62$	1	97	L1003603	Screw-M4 $\times 5$	1
63	A2301030	Outlet T connector	1	98	S0002000	Grounding lable	2
64	M3004000	O-ring- $\phi 18 \times \phi 2.65$	1	99	A1401600	Grounding lead assembly	1
65	M3002700	O-ring- $\phi 12.2 \times \phi 2.4$	1	100	M3002400	O-ring- $\phi 107.62 \times 2.62$	1

PARTS LIST



ITEM	PART #	DESCRIPTION	QTY	ITEM	PART #	DESCRIPTION	QTY
101	L1004110	Screw-T3.5×12	2	121	43057600	Spring	1
102	F1201200	Wire clamp	1	122	43056200	Washer	1
103	A1400700	Electrical box	1	123	22009800	O-ring-φ1.8×φ1.8	1
104	37016200	Capacitor	1	124	22555900	O-ring-φ8.5	1
105	M3001800	O-ring-φ47.3×φ2.62	1	125	43042402	Retainer	1
106	A1400600	Capacitor cover	1	126	43042500	Nut	1
107	L1003701	Screw-M8×20	2	127	43067200	Washer	1
108	A1401000	Baseplate	1	128	42100900	Bottom cover	1
109	L1003702	Screw-M8×40	2	129	22014500	Seal cushion	162mm
110	L1000400	Screw-M6×16	4	130	42100800	Top cover	1
111	L1000900	Plain washer-Φ6	4	131	42184700	U-Pin	1
112	F1100903	Rubber isolator foot	4	132	33000700	Micro-switch	1
113	L1001000	Lockwasher-M6	4	133	37011400	Strain relief	1
114	L1001900	Nut-M6	4	134	31003700	Lead wire	1
115	A1401100	Bushing	2	135	37007900	Sheath	1
116	22562000	O-ring-φ4.87×φ1.78	2	136	37009200	Plate	1
117	W3000114	Pressure hose	1	137	37009500	Strain relief	1
118	A1402630	Connector	1	138	37009300	Terminal	1
119	22562000	O-ring-φ4.87×φ1.78	1	139	37000200	Sheath	1
120	43108300	Lever	1	140	42169101	Tie	1

REPAIR KITS

BE Part No.	Description
85.165.003	Pump Kit
85.165.001	Unloader Kit
85.165.002	Pressure Switch Kit
85.165.004	Pump Repair Kit
85.165.005	Power Switch

BE



BE





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