< PX-55011 / 55022 / 55022A > < PXL-52511 / 52522 >

- Thank you for choosing Koshin Submersible Pump.
- This manual is prepared for your safety when operating pump.
 Please read carefully and comprehend fully before use.
 (Wrong usage could cause injury or death.)
- Please keep this manual handy for future reference.

PLEASE READ THIS MANUAL BEFORE OPERATION.

"ACCEPTABLE FOR INDOOR OR OUTDOOR USE" "SUBMERSIBLE PUMP"

▲ CAUTION **▲**

Before use, please make sure to read the instruction manual. Do not operate the pump out of water or insufficient water.

▲ WARNING **▲**

Risk of electric shock. This pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce risk of electrical shock, connect only to a properly grounded, grounding-type receptacle.

TO REDUCE THE RISK OF ELECTRIC SHOCK, INSTALL ONLY ON A CIRCUIT PROTECTED BY A GROUND-FAULT CIRCUIT-INTERRUPTER (GFCI).

A NOTE A

This pump has not been investigated for use in swimming pool or marine areas. This pump has been evaluated for use with water only.

KOSHIN LTD.

www.koshinpump.com

Float switch

Cord Band

The ON

350~

410mm

water leve

The OFF water level

Leave W

space

: 100~130mm

12 Kami-Hachinotsubo Kotari, Nagaokakyo City, Kyoto 617-8511 JAPAN TEL.+81-75-954-6111 FAX.+81-75-954-6119

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INSTALLATION AND USE

- An acceptable motor-control switch shall be provided at the time of installation.
- Thermally protected
- 1. This pump works under an automatic surface control system whereby it is automatically switched on and off by a float switch.
- 2.The pump starts automatically when the water level rises and the float comes up to the ON water level, and stops automatically when the water level falls and the float comes down to the OFF water level.
- 3.The ON and OFF water levels can be adjusted by loosening the cord band bolt. However, the length of the cord between the cord band and the float switch should be between 50mm and 150mm, otherwise the float switch will not operate normally.
- 4. The float switch should be installed where it does not come into contact with walls or is any other obstructions.
- 5.The pump should not be installed where water is discharged directly onto the float.

AFTER USING PUMP

- In cold climates, do not allow pump to freeze.
 Remove pump from water to prevent damage due to freezing.
- 2. Completely drain and dry pump of water before storing.

A CAUTION

1. Leak Current Breaker

For home use, attach a leak current breaker, GFCI (offered separately) to ensure safety.

2. Connect the power source

Absolutely refrain from connecting this pump to any other power source than 110V AC or 220V AC, 50Hz.

3. Water to use Absolutely refra

Absolutely refrain from using the pump for any oil, sea water, strong alkaline or strong acidic solution, or any agricultural chemicals.

4. Do not run dry!

Idling can cause trouble, to prevent short cycling place pump at deepest position as possible.

5. Handling of power cord (cabtype cable)

a. Never lift or move pump by power cord. Only lift by handle or tie rope supplied to handle.

b. Select and use proper size extension cord. Do not run extension cord in water.

6. Using in bath, etc.

Do not enter the water when pump is being used.

AFTER USING PUMP

- 1. In cold climates, do not allow pump to freeze.

 Remove pump from water to prevent damage due to freezing.
- 2. Completely drain and dry pump of water before storing.

A CAUTION

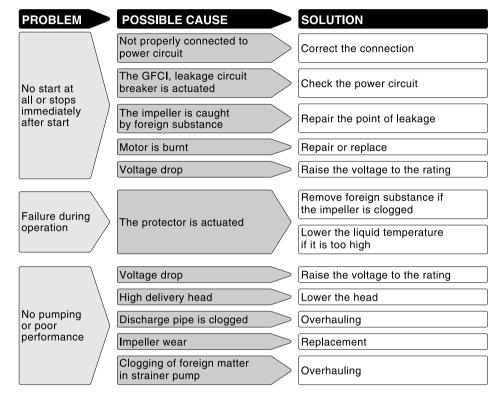
The pump is used a double mechanical seal. (See figure)

Consulting the following table assemble it.

Mechanical seal	Motor side (Carbon)	Pump side (Carborundum)
Outside diameter	22.5mm	20.5mm
Internal diameter	18.5mm	15.0mm

Internal diameter Motor Side Carbon Outside diameter Carborundum

TROUBLESHOOTING GUIDE



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MAINTENANCE AND INSPECTION

- Periodically check the insulated condition with a megger tester.
 To be acceptable, the resistance between the earthing wire and the power cord should be 100Meg ohm and higher.
- 2. The shaft of the water-tight mechanism as the most critical part of the pump is sealed with liquid paraffin. The life changes greatly depending on the operating condition but the quantity should be checked periodically.

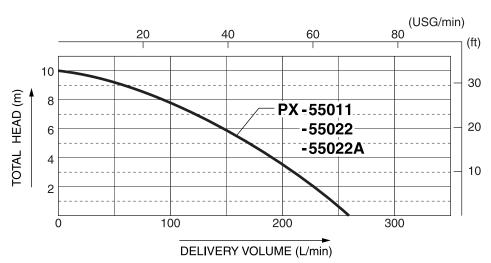
Use 230cc of Crystol No.70 by Exxon Mobil Corporation for the sealing. The liquid paraffin can be checked easily by removing the hexagon socket head bolt at a lower side of the pump body.

SPECIFICATIONS

	MODEL	PX-55011	PX-55022	PX-55022A	PXL-52511	PXL-52522
	Connection Dia	50 mm(2")			25 mm(1")	
۷b	Total Head	10 m(32.8 ft)				
PUMP	Delivery Volume	260 L/min (68.6 USG/min)			120 L/min (31.7 USG/min)	
	Voltage	AC-110V	AC-220V		AC-110V	AC-220V
	Frequency	50 Hz				
	Rated Current	6.5 A	3.2 A		6.0A	2.9 A
	Out put	400 W				
MOTOR	Consumption	580 W	620 W		590W	540W
MO	Revolution	2900 rpm				
	Model	Induction Motor				
	Power Cord	10 m (32.8 ft) [BAB-1] 5 m (19.6 ft) [BAA-1]	10 m (32.8 ft) [BAB-1/BAC-1] 5 m (19.6 ft) [BAA-1]	10 m with Float Switch (32.8 ft) [BAA-0]	10m(32.8ft)	
Standard Accessories		1 Rope (5 m) , 1 Hose Band, 1 Hose Nipple		1 Rope (5 m), 1 Hose Band 1 Cupling Packing 1 Cupling, 1 Hose Nipple		
Net Weight		11 kg (2	4.2 l b)	11.8 kg (26 lb)	12.7 kg	g (28 l b)

*Starting current is three times higher than rated current.

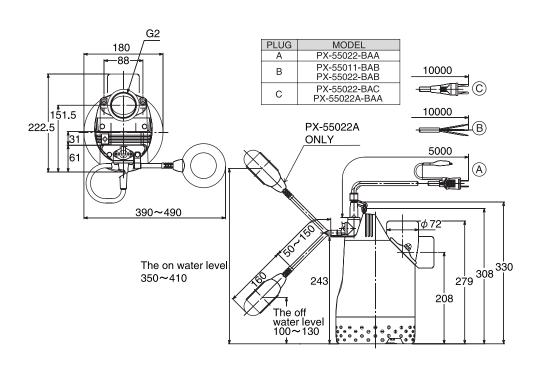
PERFORMANCE CURVE



*Performance ratings are guaranteed minimum, not inflated maximum.

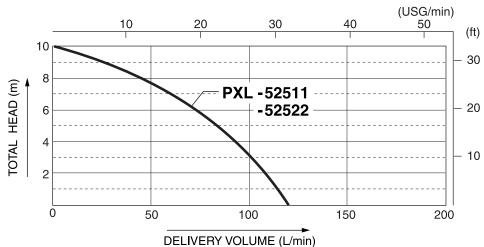
**Starting current is three times higher than rated current.

DEMENSION



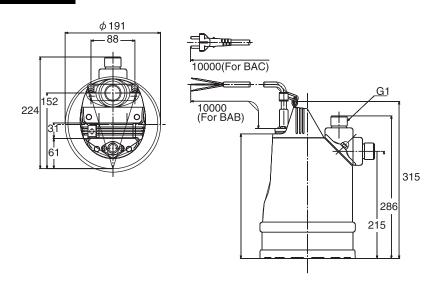
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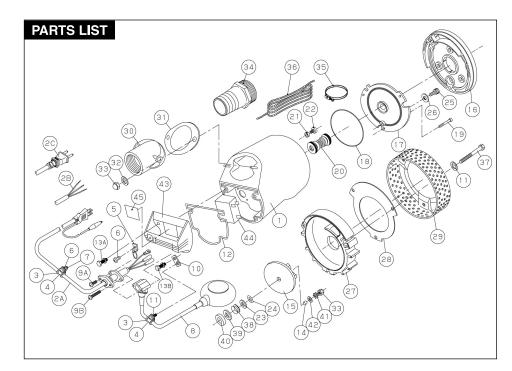
PERFORMANCE CURVE



- *Performance ratings are guaranteed minimum, not inflated maximum.
- **Starting current is three times higher than rated current.

DEMENSION



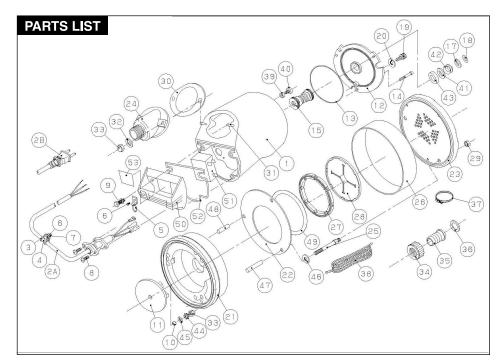


PX-55011-BAB / PX-55022-BAA/BAB/BAC / PX-55022A-BAA

No.	PARTS CODE	PARTS NAME	QTY
	0438123	PX-5011 MOTOR ASSY 110V	1
1	0438120	PX-5022 MOTOR ASSY 220V	1
	0438151	PX-5022 CE MOTOR ASSY 220V	1
2A	0430289	POWER CORD ASSY 5m	1
2B	0438102	CE POWER CORD ASSY 10m	1
2C	0438142	EU POWER CORD ASSY 10m	1
3	0390031	CORD SUPPORTER	1
4	0260018	CORD BAND	1
5	0438066	CHAIN ASSY	1
6	703305100	⊕SCREW M5×10	2
7	827305005	HEXAGON NUT M5	1
8	0438155	FLOAT ASSY	1
9A	703305104	⊕SCREW M5×14	
9B	703305110	⊕SCREW(55022A) M5×50	2
10	0390330	SUPPORT PLATE	1
11	707805046	⊕SCREW M5×12	1
12	0430284	HEAD PACKING	1
13A	743605031	HEXAGON BOLT M6×18	4
ISA	743605031	HEXAGON BOLT(55022A) M6×18	3
13B	743605032	HEXAGON BOLT(55022A) M6×20	1
14	0430441	IMPELLER FIXING BUSH	1
15	0430285	IMPELLER	1
16	0430273	BACK LINER	1
17	0430271	FRONT COVER	1
18	889955125	O-RING G125	1
19	734505037	HEXAGON SOCKET BOLT M5×20	3
20	0390003	MECHANICAL SEAL	1
21	0340142	SEAL RING	1
22	0340153	⊕BIND SCREW M6×8	1

70	/ F X-330	JZZA-DAA	
No.	PARTS CODE	PARTS NAME	Q۲۱
23	0430300	IMPELLER WASHER	1
24	0390025	IMPELLER ADJUSTING WASHER	2
25	0390037	SOCKET BOLT M10×12	1
26	854255010	SEAL WASHER ϕ 10	1
27	0430274	CASING	1
28	0430269	SUCTION	1
29	0430270	STRAINER	1
30	0430305	DELIVERY FLANGE G2	1
31	0430283	DELIVERY PACKING	1
32	846005008	WASHER ϕ 8	5
33	835305008	HEXAGON CAP NUT M8	3
34	039021301	HOSE NIPPLE ϕ 50	
35	940019060	HOSE BAND ϕ 60	1
36	0398020	PS ROPE 5M	1
37	735705162	HEXAGON BOLT M8×70	
38	895154014	OIL SEAL VR14A	1
39	0430301	THRUST WASHER	1
40	0430299	THRUST PACKING	1
41	845305008	TOOTHED WASHER 8B	1
42	846505008	WASHER ϕ 8-1.6	
43	0430268	HANDLE	1
44	0430392	110V CONDENSER(55011) 32 μ F 260VAC	1
	0430393	220V CONDENSER(55022) 8 μ F 480VAC	1
	0430344	PX-55011-BAB NAME PLATE	1
	0430317	PX-55022-BAA NAME PLATE	1
45	0430336	PX-55022-BAB NAME PLATE	1
	0430479	PX-55022-BAC NAME PLATE	1
L_	0430558	PX-55022A-BAA NAME PLATE	1
46	0390383	PARAFFIN OIL 230CC	1

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PXL-52511/ PXL-52522

No.	PARTS CODE	PARTS NAME	QTY
1	0438123	PX-5011 MOTOR ASSY 110V	1
	0438151	PX-5022 CE MOTOR ASSY 220V	
2A	0438102	CE POWER CORD ASSY	1
2B	0438142	EU POWER CORD ASSY	1
3	0390031	CORD SUPPORTER	1
4	0260018	CORD BAND	1
5	0438066	CHAIN ASSY	1
6	703305100	⊕SCREW M5×10	2
7	827305005	HEXAGON NUT M5	
8	703305102	+SCREW M5×14	2
9	743605031	HEXAGON BOLT M6×18	4
10	0430441	IMPELLER FIXING BUSH	1
11	0430285	IMPELLER	1
12	0430271	FRONT COVER	1
13	889955125	O-RING G125	1
14	734505037	SOCKET BOLT M5×20	3
15	0390003	MECHANICAL SEAL	1
16	0390383	PARAFFIN OIL 230CC	1
17	0430300	IMPELLER WASHER	1
18	0390025	IMPELLER ADJUSTING WASHER	2
19	0390037	SOCKET BOLT M10×12	1
20	854255010	SEAL WASHER ϕ 10	1
21	0430334	PX-L CASING	1
22	0430329	PX-L SUCTION	1
23	0430241	PX-L STRAINER	1
24	0430350	DELIVERY FLANGE	1
25	0430242	STUD BOLT	3
26	0430236	STRAINER STAND	1
27	0430239	SEAL RING	1

۱o.	PARTS CODE	PARTS NAME	QTY
28	0430331	ONE WAY CHECK VALVE	1
29	827405008	HEXAGON NUT M8	3
30	0430283	DELIVERY PACKING	1
31	0430290	STUD BOLT M8×36×11/21	2
32	846005008	WASHER $\phi 8$	2
33	835305008	HEXAGON CAP NUT M8	3
34	0340781	COUPLING	1
35	0340782	HOSE NIPPLE	1
36	0340065	COUPLING PACKING	1
37	940019032	HOSE BAND ϕ 32	1
38	0398020	PS ROPE 5m	1
39	0340142	SEAL RING	1
40	0340153	⊕BIND SCREW M6×8	1
41	0430301	THRUST WASHER	1
42	895154014	OIL SEAL VR14A	1
43	0430299	THRUST PACKING	1
44	845305008	TOOTHED WASHER 8B	1
45	846505008	WASHER ϕ 8-1.6	1
46	854255008	SEAL WASHER $\phi 8$	3
47	0430361	PX-L LONG PIPE	2
48	0430362	PX-L SHORT PIPE	1
49	0430360	PX-L SUCTION PACKING	1
50	0430268	HANDLE	1
51	0430393	220V CONDENSER 8 μ F480VAC	1
52	0430284	HEAD PACKING	1
	0430379	PXL-52511-BAB NAME PLATE	1
53	0430380	PXL-52522-BAB NAME PLATE	1
	0430577	PXL-52522-BAC NAME PLATE	1