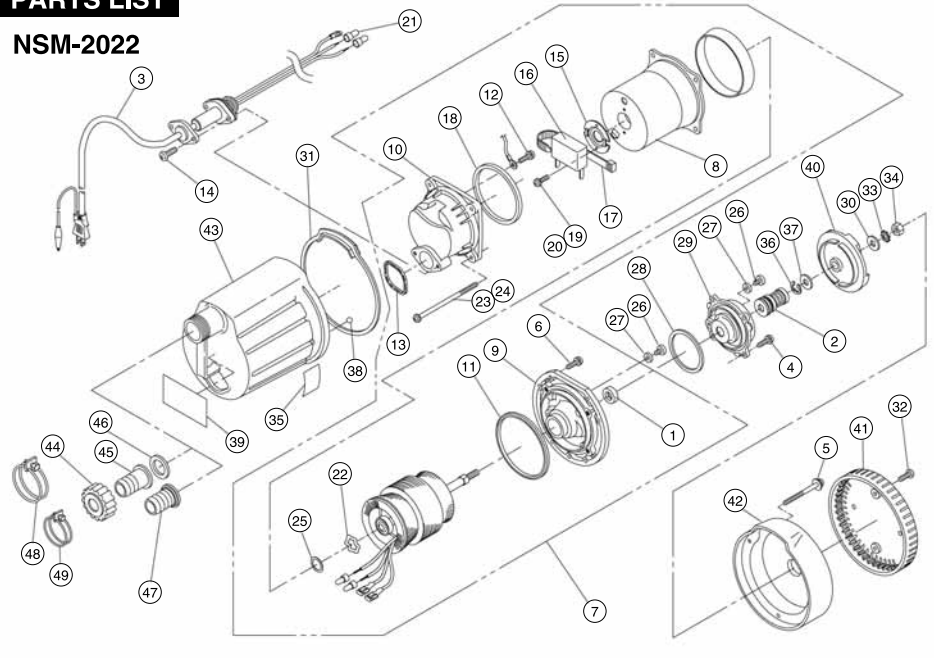


NSM-2022



No.	PARTS CODE	PARTS NAME	QTY	STANDARD, MATERIAL
1	893555008	Oil Seal	1	NBR SC.8.18.7
2	0340012	Mechanical Seal	1	
3	0340032	Power Cord	1	
4	708105046	⊕Screw	4	M5×12
5	0340596	SM Tapping Screw	3	SUS 4x57.5x27S
6	0340916	⊕Tapping Screw	6	SUS 5X20
7	0348183	Motor Assy	1	
8	0340196	Motor Frame	1	SPC
9	0341269	Front Bracket	1	
10	0341270	Head Cover	1	ADC
11	0340206	Frame Packing	1	NBR
12	704119074	⊕Screw	1	SWRM M4×8
13	0340327	Out Packing	1	NBR
14	703305102	⊕Screw	2	SUS M5×14
15	0340217	Bearing Plate	1	SPC
16	0340328	Condenser	1	250VAC 6μF
17	0341092	Band	1	CV-175
18	0340208	Head Packing	1	NBR
19	703319050	⊕Screw	2	SWRM M3×6
20	843819003	Spring Washer	2	SWRM φ3
21	944500002	Solderless Connector	2	CE-2
22	857627608	Wave Washer	1	BWW-608
23	0341093	⊕Screw	4	SUS M5×92
24	843805005	Spring Washer	14	SUS φ5
25	0341094	Thrust Washer	1	

No.	PARTS CODE	PARTS NAME	QTY	STANDARD, MATERIAL
26	0340153	⊕Screw	2	SUS M6×8
27	0340142	Seal Ring	2	NBR
28	0340209	Mecha Packing	1	NBR
29	0340187	Mecha Box	1	PBT+GF
30	846205006	Washer	1	SUS φ6
31	0340774	Casing Packing	1	CR+NBR
32	718505035	⊕Tapping Screw	2	SUS 4×12
33	845205006	Tooth Washer A	1	SUS φ6
34	839605006	U Nut	1	SUS M6
35	0340324	Air Lock Label	1	
36	888705006	Stop Ring	1	6 SUS
37	0340329	Impeller Collar	1	
38	0340265	Ball	1	SUS
39	0340259	Label	1	
40	0340210	50Hz Impeller	1	POM
41	0340042	Strainer	1	ABS
42	0340015	Casing	1	
43	0340203	Out Cover	1	ABS
44	0340778	Coupling	1	ABS
45	0340779	Hose Nipple	1	ABS
46	0340064	Coupling Packing	1	CR
47	0340780	SM Hose Nipple	1	ABS
48	940019026	Hose Band	1	φ 26
49	940019022	Hose Band	1	φ 22

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HIGH PERFORMANCE SUBMERSIBLE PUMP OPERATION MANUAL

NEW PONDY

NSM MODEL

Thank you for purchasing
KOSHIN submersible pump.

Upon receipt, please check the following:

- Model is exactly what you have ordered.
- There is no damage made during transportation.
- Accessories are all supplied.
- Please contact dealer if need further assistance.

Please read manual before operation.



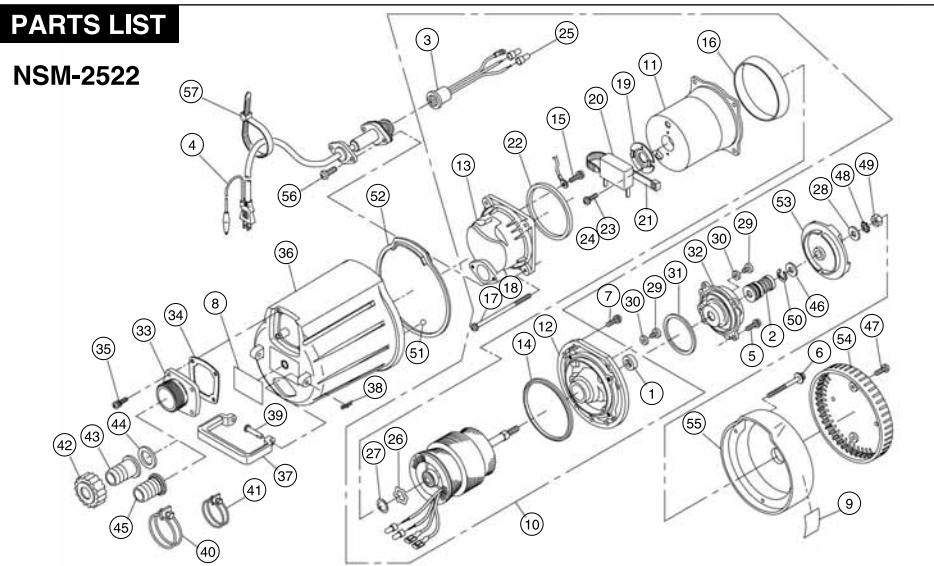
KOSHIN LTD.

www.koshinpump.com

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

PARTS LIST

NSM-2522

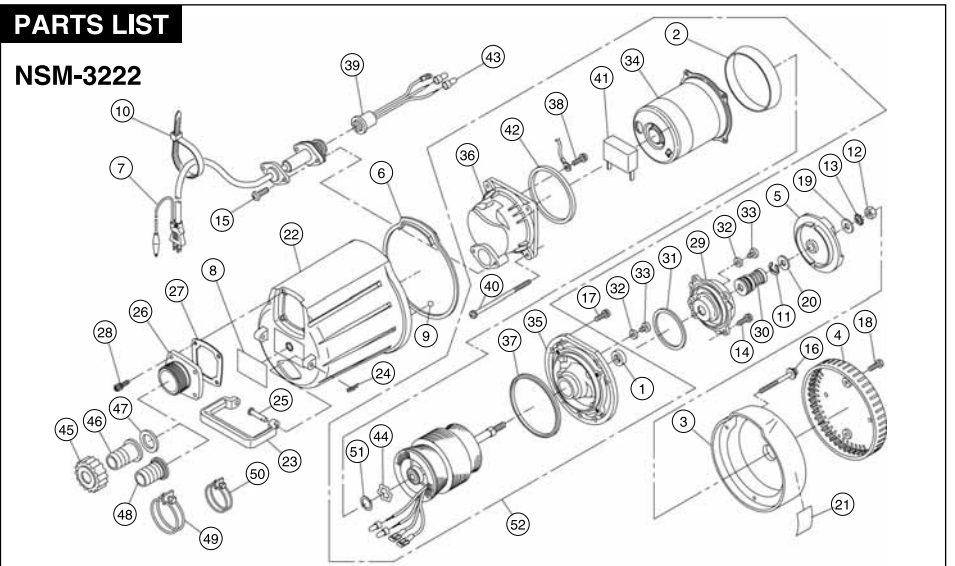


No.	PARTS CODE	PARTS NAME	QTY	STANDARD, MATERIAL
1	893555008	Oil Seal	1	NBR SC.8 18.7
2	0340012	Mechanical Seal	1	
3	0340219	Connector	1	
4	0340232	Power Cord	1	VCT 0.75-3C
5	708105046	⊕Screw	4	M5x12
6	0340597	SM Tapping Screw	3	SUS 5x62x29
7	0340143	⊕Tapping Screw	6	SUS 5x22
8	0340261	Label	1	
9	0340324	Air Lock Label	1	
10	0348182	Motor Assy	1	
11	0340190	Motor Frame	1	SPC
12	0341267	Front Bracket	1	ADC
13	0341268	Head Cover	1	ADC
14	0340205	Frame Packing	1	NBR
15	704119074	⊕Screw	1	SWRM M4x8
16	0340241	Motor Supporter	1	
17	0341099	⊕Screw	4	SUS M5x100
18	843805005	Spring Washer	14	SUS φ 5
19	0340217	Bearing Plate	1	SPC
20	0341101	Condenser	1	2.5μF 520VAC
21	0341092	Band	1	CV-175
22	0340207	Head Packing	1	NBR
23	703319050	⊕Screw	2	SWRM M3x6
24	843819003	Spring Washer	2	SWRM φ 3
25	944500002	Solderless Connector	2	CE-2
26	857627608	Wave Washer	1	BWW-608
27	0341094	Thrust Washer	1	
28	846205006	Washer	1	SUS φ 6
29	0340153	⊕Screw	2	SUS M6X8
30	0340142	Seal Ring	2	NBR

No.	PARTS CODE	PARTS NAME	QTY	STANDARD, MATERIAL
31	0340209	Mecha Packing	1	NBR
32	0340187	Mecha Box	1	PBT+GF
33	0340036	Delivery Flange	1	ABS
34	0340040	Delivery Flange Packing	1	CR
35	0340223	⊕Tapping Screw	4	SUS 5x20
36	0340198	Out Cover	1	ABS
37	0340160	Handle	1	ABS
38	0340114	Snap Pin	2	SUS
39	0340162	Rivet	2	AL
40	940019032	Hose Band	1	φ 32
41	940019026	Hose Band	1	φ 26
42	0340781	Coupling	1	ABS
43	0340782	Hose Nipple	1	ABS
44	0340065	Coupling Packing	1	CR
45	0340783	Hose Nipple	1	ABS 25x20
46	0340329	Impeller Collar	1	
47	718505054	⊕Tapping Screw	2	SUS 5x14
48	845205006	Tooth Washer A	1	SUS φ6
49	839605006	U Nut	1	SUS M6
50	888705006	Stop Ring	1	6 SUS
51	0340265	Ball	1	SUS
52	0340243	Casing Packing	1	CR+NBR
53	0340587	Impeller	1	POM
54	0340043	Strainer	1	ABS
55	0340020	Casing	1	
56	703305139	⊕Screw	2	SUS M5x18

PARTS LIST

NSM-3222

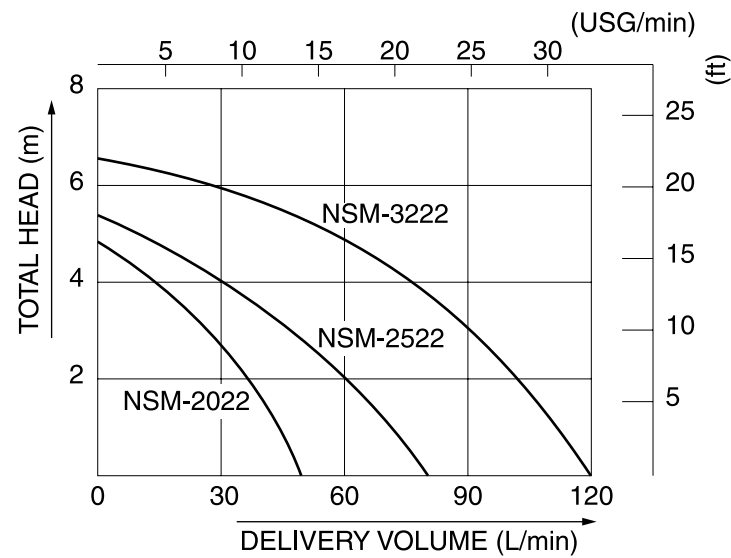


No.	PARTS CODE	PARTS NAME	QTY	STANDARD, MATERIAL
1	893555008	Oil Seal	1	NBR SC.8.18.7
2	0340242	Motor Supporter	1	
3	0340021	Casing	1	
4	0340044	Strainer	1	ABS
5	0340212	50Hz Impeller	1	ADC
6	0340244	Casing Packing	1	CR+NBR
7	0340233	Power Cord	1	VCT 0.75-3C
8	0340263	Label	1	
9	0340265	Ball	1	SUS
10	0340227	Band	1	CV-125
11	888705006	Stop Ring	1	6 SUS
12	827405006	Nut	1	SUS M6
13	845205006	Tooth Washer A	1	SUS φ6
14	708105046	⊕Screw	4	SUS M5×12
15	703305139	⊕Screw	2	SUS M5×18
16	0340598	Tapping Screw	3	SUS 6×70×33
17	0340143	⊕Tapping Screw	6	SUS 5×22
18	718505064	Tapping Screw	2	SUS 6×16
19	846205006	Washer	1	SUS φ6
20	0340329	Impeller Collar	1	SUS
21	0340324	Air Lock Label	1	
22	0340204	Out Cover	1	ABS
23	0340160	Handle	1	ABS
24	0340114	Snap Pin	2	SUS
25	0340162	Rivet	2	AL
26	0340038	Delivery Flange	1	ABS
27	0340041	Delivery Flange Packing	1	CR
28	0340223	⊕Tapping Screw	4	SUS 5×20
29	0340187	Mecha Box	1	PBT

No.	PARTS CODE	PARTS NAME	QTY	STANDARD, MATERIAL
30	0340012	Mechanical Seal	1	EA-560-8-1
31	0340209	Mecha Packing	1	NBR
32	0340142	Seal Ring	2	NBR
33	0340153	⊕Screw	2	SUS M6×8
34	0340197	Motor Frame	1	SPC
35	0340200	Front Bracket	1	ADC
36	0340201	Head Cover	1	ADC
37	0340205	Frame Packing	1	NBR
38	704119074	⊕Screw	1	M4×8
39	0340341	Connector	1	
40	0340267	⊕Screw	4	SUS M5×110
41	0341243	Condenser	1	3.5μF
42	0340207	Head Packing	1	NBR
43	944500002	Solderless Connector	2	CE-2
44	857627608	Wave Washer	1	
45	0340775	Coupling	1	ABS
46	0340776	Hose Nipple	1	ABS
47	0340066	Coupling Packing	1	CR+NBR
48	0340777	32×25 Hose Nipple	1	ABS
49	940019040	Hose Band	1	φ 40
50	940019032	Hose Band	1	φ 32
51	0341094	Thrust Washer	1	
52	0348027	Motor Assy	1	

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PERFORMANCE CURVE



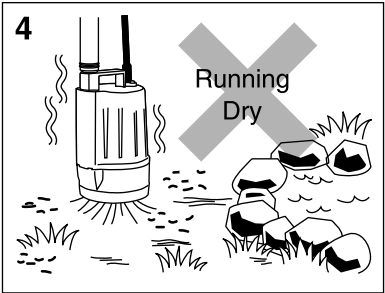
Note: Performance ratings are guaranteed minimum, not inflated maximum.

SPECIFICATIONS

Model	NSM-2022	NSM-2522	NSM-3222
Connection Dia	20mm (3/4")	25mm (1")	32mm (1-1/4")
Total Head	4.8m (15.7 ft)	5.5m (18.0 ft)	6.5m (21.3 ft)
Delivery Volume	50 L/min (13.2 USG/min)	80 L/min (21.1 USG/min)	120 L/min (31.7 USG/min)
Voltage	AC-220 V		
Frequency	50 Hz		
Rated Current	0.7 A	1.0 A	1.2 A
Output	48 W	100 W	150 W
Revolution	2800 rpm (50 Hz)		
Rating	Continuous		
Motor Type	Condenser Induction Motor		
Power Cord	4 m	4 m	5 m
Standard Accessories	φ 20 Coupling set 1 φ 15 Hose nipple 1 φ 15 Hose band 1 φ 20 Hose band 1	φ 25 Coupling set 1 φ 20 Hose nipple 1 φ 20 Hose band 1 φ 25 Hose band 1	φ 32 Coupling set 1 φ 25 Hose nipple 1 φ 25 Hose band 1 φ 32 Hose band 1

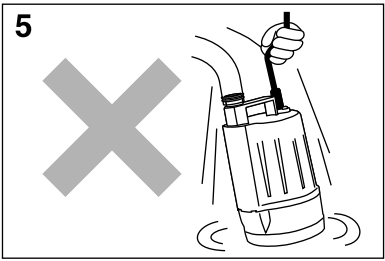
4. Running dry

Prevent dry pumping at all times.
Always place pump at the deepest end of the tank / pond.



5. Handling of the pump

Never handle the pump by its cable.
Use the handle provided.
Should the pump be installed in deep position, attach a rope to the handle.

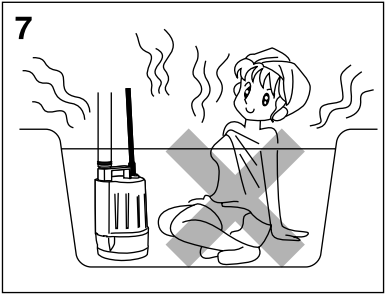


6. Power Cord

Select an appropriate cord size for cable cord extension.
The joint should not be submerged in the water .

7. Bath usage

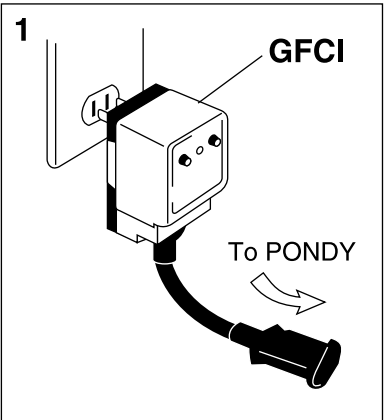
No one should be in the water while the pump is in operation.
Temperature of water should not exceed 40°C.



CAUTION

1. GFCI
(Ground fault circuit interrupter)

To ensure safety, especially for home application, use PONDY with leak current breaker. Leak current breaker is available as an option and is sold separately.

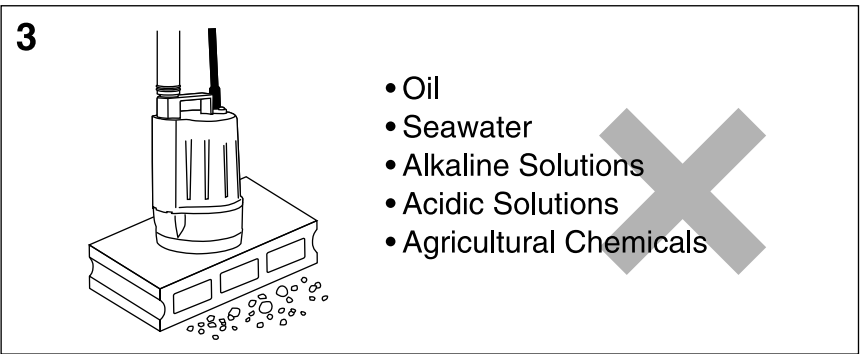


2. Power source

Ensure pump supplied is in appropriate voltage to your country's power source.

3. Application

- a. The pump is designed for clean water application. However should it be used for other situations, do NOT place pump at the bottom of tank / pond. This will prevent excessive mud or sand from entering into the pump. Muddy or sandy water will affect performance of the pump.
- b. Do NOT use pump for oil, seawater, strong alkaline or acidic solutions or any type of agricultural chemicals.



MAINTENANCE

- 1. In cold regions where frosting occurs, do NOT leave water inside the pump if not in operation. Remove pump from tank/pond and drain out the water.
- 2. Before storage, always thoroughly clean and dry the internal part of the pump

TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
Non-operation	Power may not be turned on.	Turn on the power.
	No connection or poor contact of cable.	Repair is needed.
	Too low a voltage.	Correct the voltage.
	Impeller may be blocked.	Remove obstruction from impeller.
Failure during operation	Impeller may be blocked.	Remove obstruction from impeller.
	Inadequate voltage.	Correct the voltage.
Poor performance	Low voltage.	Correct the voltage.
	Hose may be bent or clogged.	Straighten up the hose or clean up inside of the hose.
	Impeller may be worn off.	New impeller required.
	Too much residue inside the pump casing.	Open casing and clean up.
Stop operation due to leak current breaker.	Their cable may have a flaw.	Repair is needed.
	Wet cable joint.	Dry the joint.