

HIGH PERFORMANCE SELF-PRIMING PUMP OPERATION MANUAL

LARGE DELIVERY VOLUME HIGH DELIVERY HEAD

HIDELS PUMP

《SE·SEH·SEM-100X》

Thank you for purchasing KOSHIN HIDELS PUMP

Upon receipt, please check the following.

- Model is exactly what you ordered.
- There is no damage in transit.
- Accessories are all supplied.

In case of trouble, please contact dealer.



12, Kami-Hachinotsubo, Kotari Nagaokakyo City, Kyoto, Japan TEL +81-75-953-2499 FAX +81-75-954-6119 http://www.koshin-Itd.co.jp

KOSHIN LTD.

CAUTION

1. Application

As this pump is exclusively used for agriculture, do not apply muddy water.

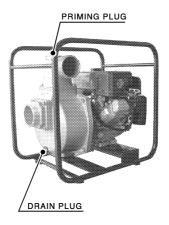
* Trouble if you don't observe.

Damage of mechanical seal

2. Priming

As this pump is of self-priming type, pour water fully from priming port before running.

* Trouble if you don't observe.
Impossible pumping
Damage of mechanical seal



3. Connection of suction hose

If priming is not made by running after pouring water from priming port, it is almost because of imperfect connection of suction hose.

In such a case, run after checking again connection of hose

* Trouble if you don't observe. Impossible pumping

4. Supply & Change of engine oil

Supply oil before running from oiling port ,shown in photo, at bottom of engine.

Change oil every 8 hours for the first 20 hours and every 50 hours thereafter.

Applied oil: SAE#30(spring-summer,SAE#"20(autumn-winter)

SAE10w-30(cold district, below -10℃)

Apply oil having a quality better than Grade SC(oil Grade Ms).

* Trouble if you don't observe.
 Burning of engine

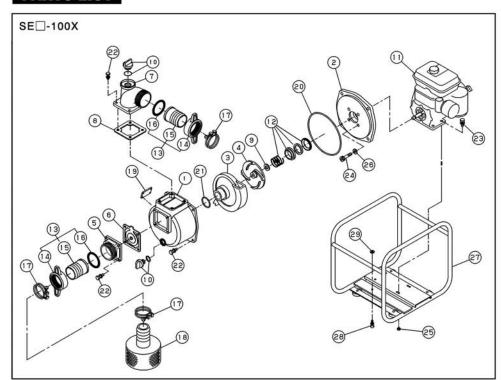
5. Drain of water after use

Water inside casing freezes at below 0°C in winter and thereby pump may possibly be broken. After use, drain water from drain port at bottom to store.

* Trouble if you don't observe.

Breakage of pump casing

PARTS LIST



No.	PARTS CODE	PARTS NAME	QTY	MATERIAL	SIZE	REMARKS
1	0115691	PUMP CASING	1	ADC		
2	0115763	FLANGE BRACKET	1	ADC		
3	0110717	VOLUTE CASING	1	FC		j.
4	0115664	IMPELLER	1	FC		
_	0110963		1	ADC	FFT	SE-SEH-100X
5	0116188	SUCTION FLANGE		ADC	BSP	SEM-100X
6	0117363	CHECK VALVE SET	1			
7	0115674	DELIVERY FLANGE		ADC	FFT	SE-SEH-100X
	0116187		1	ADC	BSP	SEM-100X
8	0110750	DELIVERY FLANGE PACKING	1	CR		Ï.
9	0110081	IMPELLER ADJUSTING WASHER	3			
10	0118079	25A PLUG SET	2			
	0113278	ENGINE	1	ROBIN EY280		SE-100X
11	0114434		1	HONDA GX240		SEH-100X
	0116647			MITSUBISHI GM231		SEM-100X
12	0115764	MECHANICAL SEAL	1		EH791-025	
	0118050		2	ADC	FFT	SE+SEH-100X
13	0117639	COUPLING SET		ADC	BSP	SEM-100X
14	0110852	COLUMN IN IO	2	ABS		SE-SEH-100X
	0116189	COUPLING		ADC		SEM-100X
15	0110471	HOSE NIPPLE	2	ADC		

No	PARTS CODE	PARTS NAME	QTY	MATERIAL	SIZE	REMARKS
16	0110853	COUPLING PACKING	2	NBR		SE-SEH-100X
	0111478	COUPLING PACKING				SEM-100X
17	940019120	HOSE BAND	3		ø 120	
18	0111217	STRAINER SET	1	SPC		
19	0115765		1			SE-100X
	0115770	NAME PLATE				SEH-100X
	0116649					SEM-100X
20	890455080	O-RING	1	NBR	1516-80	
21	889855090	O-RING	1	NBR	P90	
22	743119080	HEXAGON BOLT	12	SWRM	M12X35	
23	743119067	HEXAGON BOLT	4	SWRM	M10X40	
24	734532078	HEXAGON SOCKET BOLT	4	SCM	M8X70	
25	827419010	HEXAGON NUT	4	SWRM	M10	
26	854255008	SEAL WASHER	4		ø 8	
	0117514		1	ORANGE		SE-100X
27	0117519	BASE SET		BLACK		SEHÅESEM-100X
28	743119043	HEXAGON BOLT	1		M8X16	
29	0115923	RUBBER SHEET	1		26X12X5	

****FFT(FIRE FIGHTING THREAD)**

6. Long storage

Discharge fuel in fuel tank and carburetter entirely.

* Trouble if you don't observe.

Inpossible to start engine(With regard to engine, refer to instruction manual of engine.)

7. Avoid water hammer

Don't step on the discharge hose of abrupt valve operation.

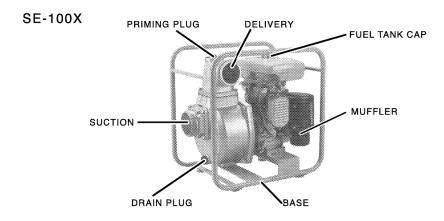
* Trouble if you don't observe. Breakage of pump casing

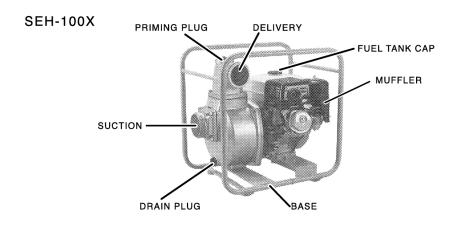
TROUBLE & REMEDY

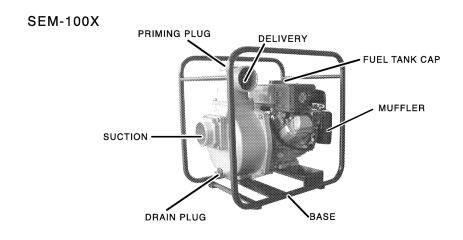
NOODLE & REMED	
oump does not revolve.——	Rusting inside engine (Refer to instruction manual of engine) Burning of engine (Refer to instruction manual of engine) Sticking of impeller (Disassemble & clean)
oumping volume is small.—	Entrance of air at suction side (Check piping at suction side) Drop of engine output (Repair) Breakage of mechanical seal (Replace mechanical seal) High suction lift (Lower) Thin or long or kink of hose (Thicken or shorten or straighten) Leak of water from water passage (Stop leak) Clogging of foreign substance in impeller (Disassemble & clean)
Pump does not self-prime.—	Suction of air at suction side (Check piping at suction side) Insufficient priming water inside pump casing (Prime fully) Imperfect tightening of drain cock (Tighten) Imperfect revolution of engine (Repair engine)

- Entrance of air from mechanical seal

(Replace mechanical seal)







SPECIFICATIONS

		SE-100X	SEH-100X	SEM-100X			
	Connection Dia	100 m/m(4")					
P	Connection Thread	Fire Fighting Hose Coupling Thead					
U M	Total Head	28 m 92Ft					
P	Delivery Volume	600 ℓ /min	1450 ℓ /min	1380 ℓ /min			
	Delivery volume	158 U.S.G/min	383 U.S.G/min	365 U.S.G/min			
ENG-N	Model	Forced Air cooling 4cycle gassolin					
		ROBIN EY280D	HONDA GX240	MITUBISHI GM 231PN			
	Exhaust Volume	273 cc	270 cc	215 cc			
	0.1.5.1	4.0kW/3600rpm	4.6kW/3600rpm	3.7kW/3600rpm			
	Out Put	5.5kW/4000rpm	5.9kW/3600rpm	3.7 KW/30001pill			
Е	Fuel	Automobile Non-lead Gasoline					
	Fuel Tank Capacity	5.5 ℓ	5.3 ℓ	4.5 ℓ			
	Fuel Consumption Hour full tank	Abt.3.0 h	Abt.3.0 h	Abt.2.0 h			
Net Weight		50kg	54kg	48kg			
	Standard Accessories	1Strainer, 2Hose	e Couplings, 3Hose Band	ds, 1Engine Tool set			

PERFORMANCE CURVE

