



HIGH PERFORMANCE SELF-PRIMING PUMP OPERATION MANUAL

LARGE DELIVERY VOLUME HIGH DELIVERY HEAD

HIDELS PUMP



KOSHIN LTD.

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《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.

KOSHIN LTD.

CAUTION

1. Application

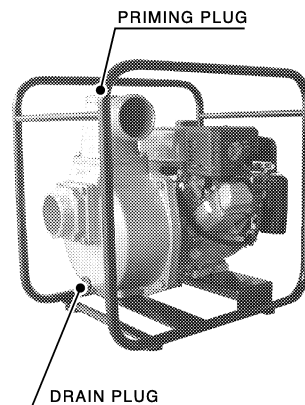
As this pump is exclusively used for agriculture, do not apply muddy water.

- * 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°C)

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

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

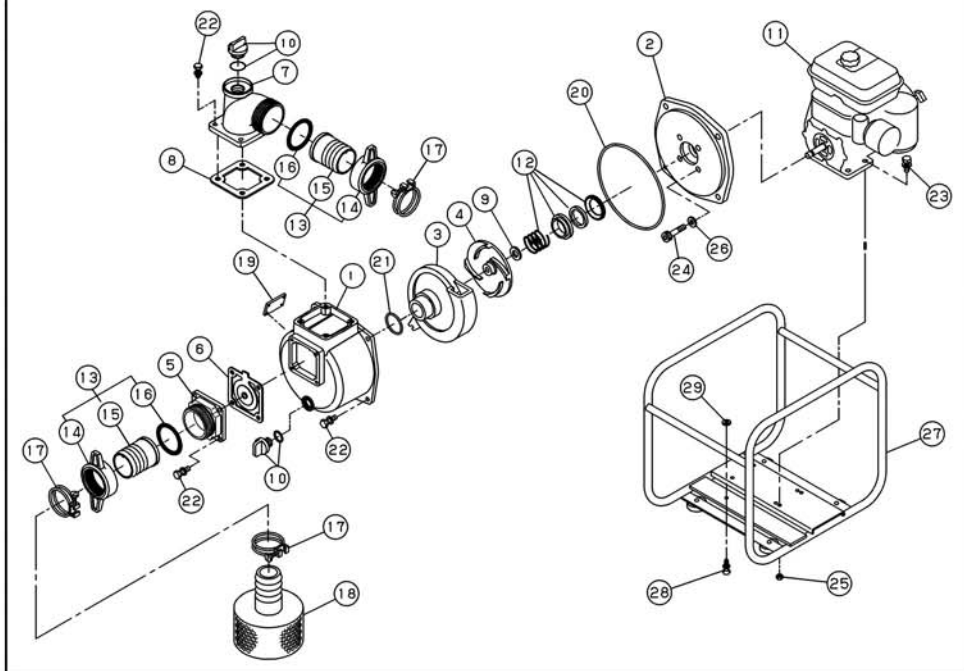
5. Drain of water after use

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

SE□-100X



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		
4	0115664	IMPELLER	1	FC		
5	0110963	SUCTION FLANGE	1	ADC	FFT	SE-SEH-100X
	0116188			ADC	BSP	SEM-100X
6	0117363	CHECK VALVE SET	1			
7	0115674	DELIVERY FLANGE	1	ADC	FFT	SE-SEH-100X
	0116187			ADC	BSP	SEM-100X
8	0110750	DELIVERY FLANGE PACKING	1	CR		
9	0110081	IMPELLER ADJUSTING WASHER	3			
10	0118079	25A PLUG SET	2			
11	0113278	ENGINE	1	ROBIN EY280		SE-100X
	0114434			HONDA GX240		SEH-100X
	0116647			mitsubishi GM231		SEM-100X
12	0115764	MECHANICAL SEAL	1		EH791-025	
13	0118050	COUPLING SET	2	ADC	FFT	SE-SEH-100X
	0117639			ADC	BSP	SEM-100X
14	0110852	COUPLING	2	ABS		SE-SEH-100X
	0116189			ADC		SEM-100X
15	0110471	HOSE NIPPLE	2	ADC		

※FFT(FIRE FIGHTING THREAD)

No.	PARTS CODE	PARTS NAME	QTY	MATERIAL	SIZE	REMARKS
16	0110853	COUPLING PACKING	2	NBR		SE-SEH-100X
	0111478					SEM-100X
17	940019120	HOSE BAND	3		φ 120	
18	0111217	STRAINER SET	1	SPC		
19	0115765	NAME PLATE	1			SE-100X
	0115770					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		φ 8	
27	0117514	BASE SET	1	ORANGE		SE-100X
	0117519			BLACK		SEH/SEM-100X
28	743119043	HEXAGON BOLT	1		M8X16	
29	0115923	RUBBER SHEET	1		26X12X5	

6. Long storage

Discharge fuel in fuel tank and carburetter entirely.

* Trouble if you don't observe.

Impossible 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

Pump 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)

Pumping 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)

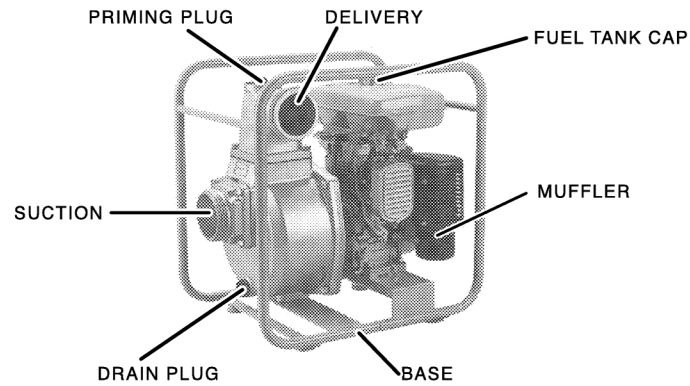
Imperfect revolution of engine

(Repair engine)

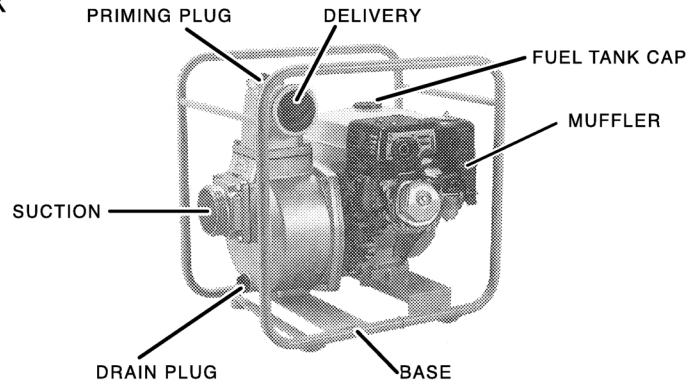
Entrance of air from mechanical seal

(Replace mechanical seal)

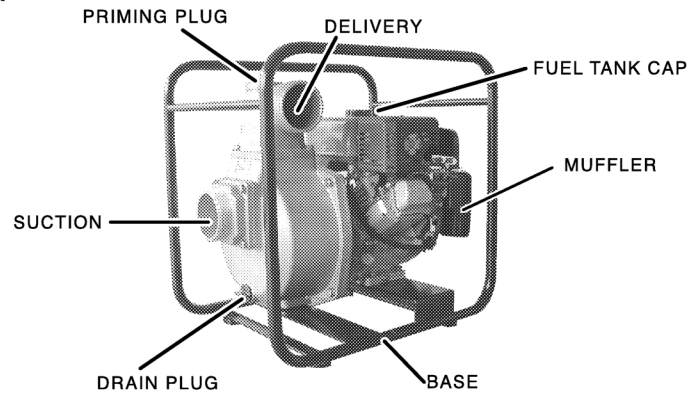
SE-100X



SEH-100X



SEM-100X



SPECIFICATIONS

		SE-100X	SEH-100X	SEM-100X
P U M P	Connection Dia	100 m/m(4")		
	Connection Thread	Fire Fighting Hose Coupling Thread		
	Total Head	28 m 92Ft		
	Delivery Volume	600 ℓ /min 158 U.S.G/min	970 ℓ /min 256 U.S.G/min	1380 ℓ /min 365 U.S.G/min
E N G I N E	Model	Forced Air cooling 4cycle gassolin -----		
		ROBIN EY280D	HONDA GX240	MITUBISHI GM 231PN
	Exhaust Volume	273 cc	270 cc	215 cc
	Out Put	4.0kW/3600rpm	4.6kW/3600rpm	3.7kW/3600rpm
		5.5kW/4000rpm	5.9kW/3600rpm	
	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 Couplings, 3Hose Bands, 1Engine Tool set		

PERFORMANCE CURVE

