

KOSHIN

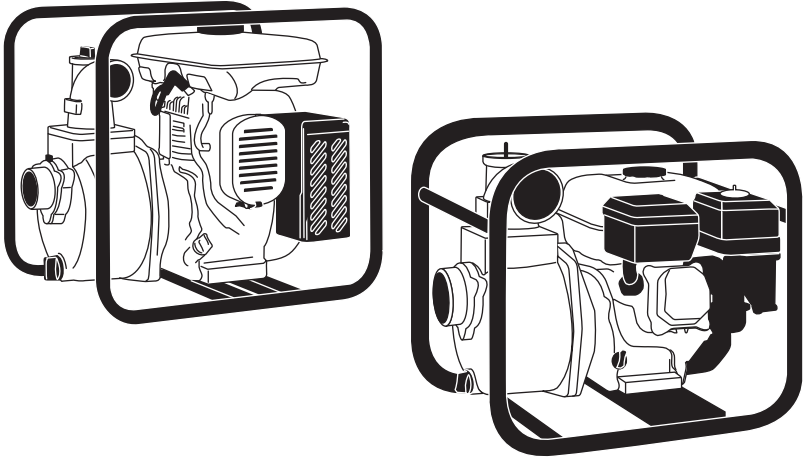
SEMI-TRASH PUMP

High Performance Self-Priming Engine Pump

OPERATION MANUAL

Common points for Semi-Trash series

- Thank you for choosing Koshin Semi-Trash 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.



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SAFETY PRECAUTIONS

Read this "Safety Precautions" before operation.
Below information should not be neglected for proper use of this product.
Your understanding can prevent harm or danger to user or others.

Following information is very important for safety in handling this product. Be sure to observe them.	
	DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
	WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	CAUTION Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or property damage.
IMPORTANT	PROHIBITED ALERT

DANGER	
	Avoid fire when refuel or maintenance. Highly inflammable!
	Do not operate Semi-Trash pump inside a room or under bad ventilation condition. Harmful substances are in exhaust gas. There is danger of gas poisoning.
	In case of operating Semi-Trash Pump in a well or in a hollow, the person operating the pump must not enter the small space as there is danger of gas poisoning.
	Do not use pump on slope. Fuel spillage at tank cap or carburetor may cause fire.
	Do not put any obstacle around engine muffler. It may cause fire or breakage.
	Read carefully and understand fully before use.
	Keep children away from pump when in operation.
	Do not overhaul or repair, except by person who is trained to do so.

CAUTION

1. Application

As this pump is design for agriculture use, do not apply with muddy water.
*Trouble if you don't observe.
Could damage mechanical seal.

2. Priming

As this pump is self-priming type, fill water fully into priming port before running.
*Trouble if you don't observe. Impossible to start pumping and may damage mechanical seal.

3. Connection of suction hose

If pump does not work after filling water into priming port, it is likely due to poor connection of suction hose. In such case, check hose connection again before starting pump.
*Trouble if you don't observe. Impossible to pump.

4. Engine oil

Fill engine oil into oiling port, shown in illustration, at the 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℃)
*Trouble if you don't observe. Burning of engine.

5. Drain water after use

Water inside may freeze at below 0℃ in winter and may damage pump.
After use, drain water from drain plug before storing.
*Trouble if you don't observe. Breakage of pump casing.

6. Long storage

Discharge fuel from fuel tank and carburetor completely.
*Trouble if you don't observe. Impossible to start engine in future.
(Engine details, refer Engine Operation Manual.)

7. Prevent water hammer

Do not abruptly compress discharge hose during operation.
*Trouble if you don't observe. Breakage of pump casing.

CAUTION	
	Do not touch muffler or any part of the engine. It could cause burn.
	Use this pump for clean water or agriculture water. Not Suitable: drinking water, mud water, seawater, kerosene, light oil, heavy oil, gasoline, chemical, acid, alkaline etc.
	Use correct type of suction hose. Water temperature tolerance: 5 to 45℃. May cause breakage if use outside the mentioned range.
	Please don't run pump without water inside the pump. This will cause pump damage.
	Please use suction hose for suction side. Please purchase suitable hose to fit to connection dia and suitable length.
	Please firmly connect hose with coupling and hose band when you connect suction or delivery hose to pump.
LABEL	Replace name plate if damaged/peeled, please order with sales store.

BEFORE USE			
1 Check accessories provided	List of accessories provided are printed on the pump manual.		
2 Fuel / Engine oil 2-stroke engine	Please use "Unleaded gasoline mixed with lubricant *" only. *Please use "2-stroke oil" only.		
<table><tr><td>Mixing Ratio</td><td>25(Unleaded gasoline) : 1 (2-stroke oil)</td></tr></table>		Mixing Ratio	25 (Unleaded gasoline) : 1 (2-stroke oil)
Mixing Ratio	25 (Unleaded gasoline) : 1 (2-stroke oil)		
WARNING	Inflammable!! Avoid fire when refuel or maintenance.		
CAUTION	Inflammable! Do not smoke when mixing fuel and refuel near open fire.		
	Any fuel spillage must be cleaned completely before starting the engine.		
	Stop engine and wait until the engine has cooled down before refueling.		
Do not use old fuel over 30 days. Fuel should be clean and fresh. Fuel around the bottom of drum contains dirt, impurities and water. Unused fuel in tank (if kept more than 30 days) may cause engine failure.			