



- Thank you for purchasing of KOSHIN GARDEN SPRAYER.
- This product is for spraying water or chemicals in the garden and agricultural areas.
- This operation manual is prepared for your safety when operating this sprayer.
   Please read the content carefully and comprehend fully before use.
   Wrong usage could cause injury.
- Please keep this operation manual handy for future reference.





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Specifications may be changed without notice due to improvement.

# **KOSHIN** GARDEN SPRAYER

# ENGINE POWERED SPRAYER KV-EX50TH85

# **OPERATION MANUAL**

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# **CAUTION FOR SAFETY**

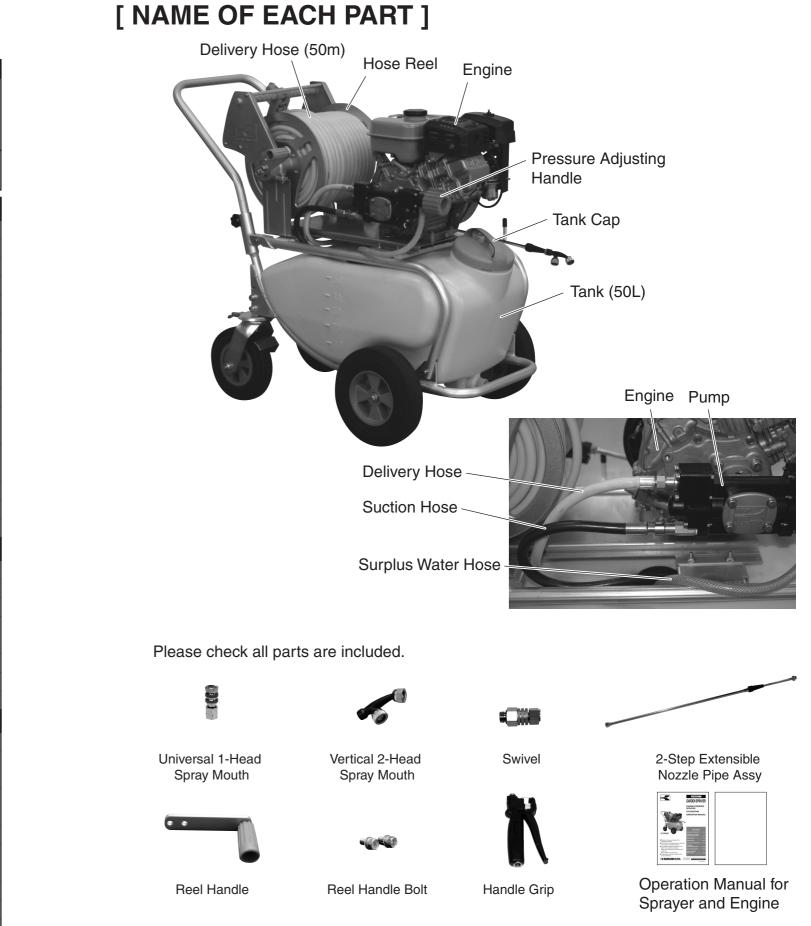
\*Read the "CAUTION AND SAFETY INSTRUCTION" carefully before use. The following cautions are shown for the proper use of this product to protect you and others from danger or harm.

The following contents explains the possible danger or damage which may occur through inappropriate use. The marks "DANGER", "WARNING" and "CAUTION" are important.

Each article explains important contents. Make sure to follow the articles.

\land DANGER	WARNING		
Indicates a imminent hazardous situation which, if not avoided, will result in death or serious injury.	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or damage to property.	
Indicates "PROHIBITION"			
	<b>A</b> DANGER		
Do not use fire while supplying or chan			
	ted place such as inside a building, green hous	ses, etc. Engine exhaust includes poisonous gas.	
<u> </u>	chine beside the hole. Engine exhaust entering		
Do not use this machine on an incline.	Fuel would spill from fuel tank cap and carbureto	or and this will cause a fire.	
Do not put any objects near muffler par	t. It would cause fire.		
Read carefully direction for each chemi	cal and use them correctly.		
Chemicals are hazardous. Keep chemic	als away from children. Also, follow direction	of chemicals about proper storage.	
Check carefully the wind direction and surro	oundings to avoid spraying people, and domestic	animals, or polluting river, pond, etc when using.	
For your safety, wear protect mask, prote	ct glasses, protect clothes, working cap, prote	ct gloves, and working shoes while spraying.	
Wash tools and clothing completely. Us	ers should take a shower or wash hands, fee	t, face etc well with soap.	
	ot only damage crops, but also harm human als and understand all properly before use. I		
Before changing chemicals, make sure It is dangerous to mix chemicals. It will	to remove current chemical completely, then cause chemical change.	put in new chemical.	
If you accidently drink or touch the che	mical, follow directions on the chemical conta	ainer and take appropriate action.	
Nobody is allowed to operate this Spray	ver except people who are healthy and not un	der influences.	
Do not dump water from washing spray	tools and container into river, sewage, etc. D	ispose of the water in a safe way.	
Do not use this products if you do not u	inderstand the operation manual.		
🛇 Work in a safe isolated area to prevent o	children from touching.		
O not water this product. It would cause	e trouble.		
	Penet everybed years a years del which is not mention in the encyclic menual event by a technician		
O Do not cover the machine with anything	and keep combustible items away from the ma	chine during use. It may cause fire and trouble.	
🛇 Do not use or leave any combustible sub	stance such as gasoline, spray can, or any flar	nmable materials during use. It may cause fire.	
O not point nozzle at people or animal	s. It may cause injury.		
$\bigotimes$ Do not touch muffler, engine or pump p	arts when hot. It may cause burn.		
	is in the operation manual before using any output of a strong acidity and alkalinity, benzene, ga		
Do not use insecticide and prevention of ended by the sector of the lt may cause trouble.	Do not use insecticide and prevention of epidemic chemicals for insects, antiseptic for sewage, toilet, etc and chemicals for stockbreeding.		
O not run the machine without water more than 1 minute. It may break pump part.			
-	d any trouble, stop using the machine and as	k for an inspection at a repair shop	
Do not use the machine except for spraying gardening and agricultural chemicals and normal spray use.			
Store the machine in a place where children cannot get to it.			
-			
Hose should not touch muffler or engin	dren cannot get to it.		

" According to the EN 55011 norms this is a CLASS A device and it may cause electromagnetic type diseases inside domestic environments". 1



# NAME OF EACH PART AND SPECIFICATION

2

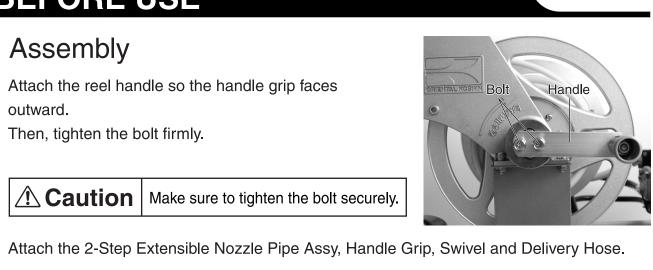
# [SPECIFICATIONS]

Model Name		KV-EX50TH85 ( <i>\phi</i> 8.5 hose)	
Туре		KV-EX50TH85-BAA	
	Туре	Double Piston Pump	
P	Max. Suction Volume	6.7 L/min	
UMP	Delivery Volume	1.2 - 4.7 L/min	
P	Max. Pressure	3.0 MPa (30 kgf/cm <sup>2</sup> )	
	Nozzle	Universal 1-Head Spray Mouth / Vertical 2-Head Spr	ay Mouth
	Delivery Hose	φ 8.5 × 50 M	
	Model	EX13DR	
	Туре	Forced Air Cooling	
	Туре	4 Stroke Gasoline Engine	
_	Exhaust Volume	126 cc	
T Z	Max. Output	3.2 kW (4.3 PS) / 2,000 rpm	
GIN	Fuel	Automotive Unleaded Gasoline	
∠   m	Fuel Tank Capacity	Approx. 2.7 L	
	Fuel Quantity	Approx. 0.6 L	
	Ignition System	Transistor magneto	
	Spark Plug	NGK : BR4HS	
	Starting Method	Recoil Starter	
	Continuous Operating Time	Approx. 3.5 h	
Net Weight		55kg	
Standard Accessories		Universal 1-Head Spray Mouth	1pc
		Vertical 2-Head Spray Mouth	1pc
		2-Step Extensible Nozzle Pipe Assy	1pc
		Handle Grip	1pc
		Swivel	1pc
		Reel Handle	1pc
		Reel Handle Bolt	2pcs

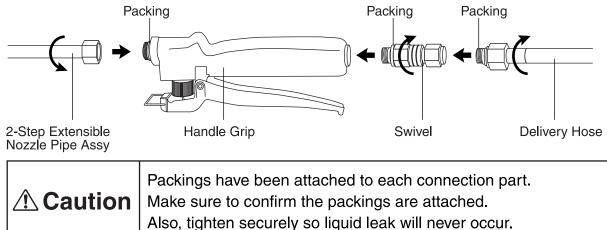
# **BEFORE USE**

## 1 Assembly

1. outward.



2.



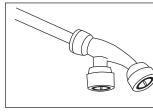
3. pipe.

For disinfection



• Use this for spraying to trees or for normal mist spraying.

For disinfection





- Mist spraying

Attach either of the two spray heads as necessary to the tip of the 2-step extensible nozzle

#### Universal 1-Head Spray Mouth

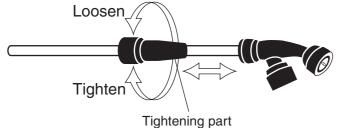
• Direct spraying, mist spraying

## Vertical 2-Head Spray Mouth

- Use this for normal mist spraying.
- Chemicals can be evenly-sprayed with mist condition.

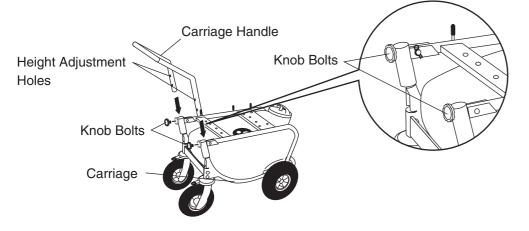
#### **BEFORE USE**

Adjust the length of the 2-step extensible nozzle pipe. (Max. 109 cm, Min. 62 cm) 4. Rotate the tightening part to loosen the pipe. Adjust the length and rotate again to fix the pipe.



5. Attach the handle.

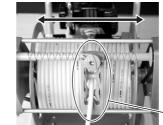
> Loosen the knob bolts on the carriage and insert the handle. The heights of the carriage handle can be adjusted with 2 holes. Adjust the height for your preference to attach.



## 2 How to Use the Hose Reel

This product employs the traverse mechanism for the hose reel so the hose can easily be reeled.

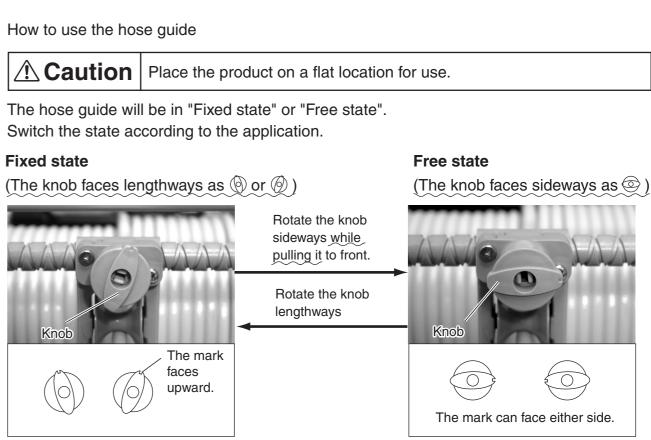
#### Traverse mechanism

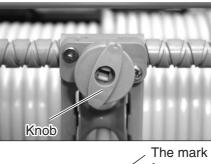


When you rotate the handle, the traverse axis rotates in conjunction with the belt. The hose is reeled with the hose guide moving to right and left.

Hose Guide

1.

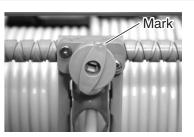




The moving direction of the knob differs depending on the location of the mark.



When pulling out: moves to the left When reeling: moves to the right



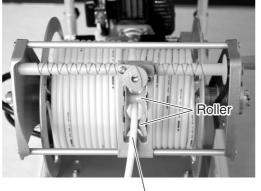
When pulling out: moves to the right When reeling: moves to the left

#### **BEFORE USE**

How to pull out the hose 2.

There are 2 methods for pulling out the hose.

- Set the hose guide to the free state to pull out.
- Set the hose guide to the fixed state to pull out.



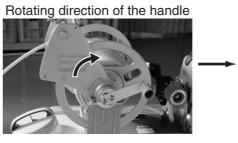
<b>▲</b> Caution	When pulling out the hose for the first time after purchase, set	Hose		
	it to the free state. Pull out the hose as straight as	Straight	<b>▲</b> Caution	Make su fixed sta hose.
<b>▲</b> Caution	possible. (Permissible range of angle is 60 degrees both to the right and left. Pulling out the hose forcibly to the side may result in the damage of the hose and the hose guide.)	Hose 120°	<b>▲</b> Caution	Move the handle s reel the moves ir (See "Ho guide" (p
<b>▲</b> Caution	Pull out the hose slowly <b>as the sa</b> Pulling out with force or stop sudd inside the reel and pulling may be	enly may cause the hose to sag		Check th the knob direction starting

Hile.

7

How to reel the hose 3.

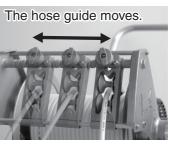
Rotate the handle clockwise when seeing the handle in front. Then, reel the hose.



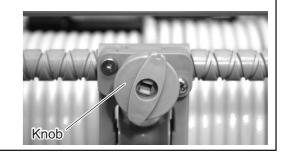
<b>▲</b> Caution	Make sure the knob is in the fixed state when reeling the hose.
<b></b>	<b>F</b>
<b>▲</b> Caution	Move the hose guide to the handle side when starting to reel the hose. The hose guide moves in the free state. (See "How to use the hose guide" (page 6).)
	Check the traveling direction the knob matches the reeling direction of the hose before starting to reel the hose.
<b>▲</b> Caution	(If the traveling direction of the hose is opposite)

will change.

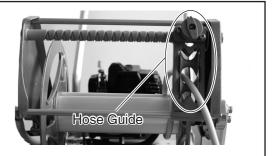
#### **BEFORE USE**



Time for reeling the hose: approx. 1.5 min.



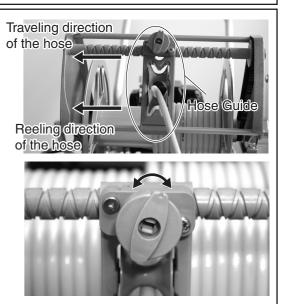
the ng to guide ose



ction of eling fore

of the

Pull the knob to the front and reversely rotate it. Then the traveling direction of the hose



#### **BEFORE USE**

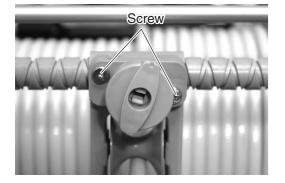
<b>A</b> Caution	The hose is reeled clockwise when the handle is seen from front. Do not rotate counterclockwise. Doing so will cause the hose to sag inside the reel and not to move.	
<b>A</b> Caution	Guide the hose to the hose guide so the hose does not become tangled while reeling.	
<b>▲</b> Caution	If the hose guide and hose become misaligned while reeling, Set the hose guide to the free state and align the position. (See "How to use the hose guide" (page 6).)	
<b>▲</b> Caution	When the hose-reeling comes close to an end, reel it slowly. (Reeling fast may cause the wire at the hose end to spring and result in injury.)	

You can set the hose guide to the free state when wishing to reel the hose without using the traverse mechanism.

#### How to clean the hose guide 4.

When the hose guide does not operate smoothly due to dust or mud, remove the guide and clean with water.

(1) Removing 2 screws at the hose guide can disengage the hose guide.



(2) Remove the dust, wash with water and reassemble to the original condition.



## 3 How to Use the Tire Stopper and Brake

#### Tire Stopper

The tire direction can be fixed when the tire stopper pin is pulled as shown below. This will be safe when moving this product on a light truck on a bridge or moving straight on a ridge.

#### Brake

Press the brake with your foot and put on the brake as shown below.

To cancel, reversely press the brake.

	Press the brake firmly
--	------------------------

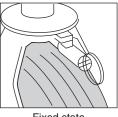
#### About chemicals 4

follow direction when thin down the chemical.

- 1. Follow exactly the direction for dilution from chemical manufacturer when use each chemical. 2. Wash hands immediately after use. (Do not keep chemical in tank) Put enough clear water into tank to clean inside of tank and also spray to clean hose and pump. Make sure to clean all completely. Repeat this step 2-3 times.

<b>A</b> Caution	Inproper use may cause d			
lain Recommend	Iain Recommend Chemical List			
Emulsion [Use before thinning down chemical with water]				
■Insecticide ■Disinfectant ■Weed-killer				
A Caution	Chemicals are poisono chemical manufacturer			
A Caution	Hydration and Lime sul shorter. Dissolve them use. Also, stir the chem			





Fixed state





Braked state

Otherwise malfunction may occur.

Make sure to read carefully operation manual for each chemical and

lamage to hose and parts. Make sure to use properly.

	Hydration
]	[Use before dissolving chemical in power with water]
r	■Insecticide ■Disinfectant ■Weed-killer

- ous. Make sure to follow instruction from each and pay attention when using.
- Ifur might make life-time of this machine completely in container such as bucket, before ical in powder completely to avoid preeipitation.

5

Fuel / Engine oil				
4 stroke engl	nee need both fuel and engine of l			
~~~~~~	<ul> <li>No fuel and engine oil inside of engine tank. Make sure to put engine oil in before use.</li> <li>Engine without oil will burn and it will be difficult to repair. (A burned engine is out of guarantee.)</li> </ul>			
🗥 Warning	Store fuel properly. Keep this machine away from Fuel supply tank more than 3m when start engine.			
<b>▲</b> Caution	Check if engine has engine oil or has appropriate amount of engine oil before starting. Engine without engine oil or engine with either more or less appropriate amount of engine oil may cause trouble.			
<b>A</b> Caution	Read carefully the engine operation manual before putting in engine oil.			
<b>A</b> Caution	Mistreatment may cause fire.			
<b>A</b> Caution	Clean up fuel/ engine oil completely if it spilled.			
<b>A</b> Caution	Inspect engine oil before use this machine. Also change engine oil regularly. Read engine operation manual for details.			
<b>▲</b> Caution	Make sure to stop engine before lubricating, adding, or exchanging engine oil. Be careful of high temperature of engine oil just after stopping.			

### Make sure to use **Automotive Unleaded Gasoline** $\sim$

(Do not use mixed gas and oil)

# HOW TO USE

# 1 Starting Engine

<b>▲</b> Caution	Make sure to put water Check working conditio chemical when starting	
	-	
<b>▲</b> Caution	Turn volume adjusting h If don not make spray c water does not come up	
<b>▲</b> Caution	When suction start, che to spray people, objects	
🗥 Warning	Exhaust is poisonous to Do not run this machine	

1. Make stop-switch "ON".

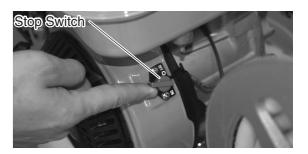
- Adjusting choke 2.
  - Move choke lever to "Close" when it is cold weather or engine gets cold.
  - Need no adjusting when engine is warm.
- 3. Set throttle lever at middle-low.

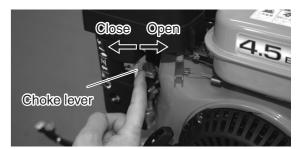
r or chemical in tank before starting engine. on of this machine with clear water before using this machine for the first time.

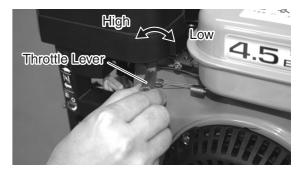
handle to left all the way to make straight spray. condition, air will not go out from hose and ıp.

nemical is sprayed from spray head. Be care not ts, etc.

to human body. ne in a place with poor ventilation.

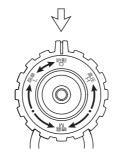






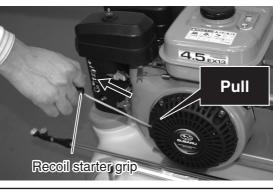
#### **HOW TO USE**

Set pressure adjusting handle at Start "O". 4.



Start engine 5.

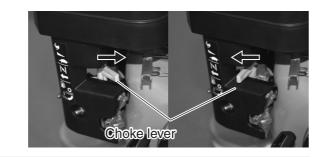
> Hold this machine and pull recoil starter grip to start.



If engine does not start after pulling recoil starter several times, move **Caution** choke to "OPEN" then pull it again.

\*If engine still does not start, see P.20 "Trouble and Maintenance".

- Move choke back to "Open" side little by little. 6.
  - When choke is at "CLOSE", move choke down gradually while checking engine rotation is stable.

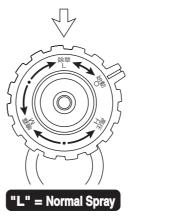


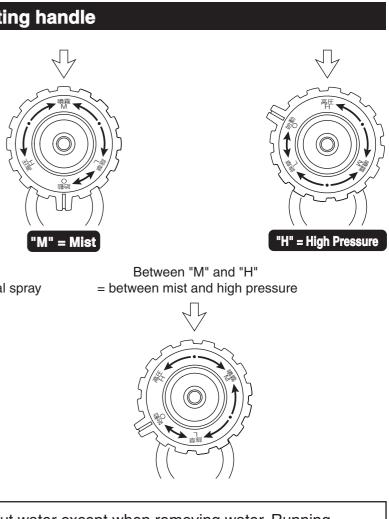
Make sure to remove fuel after use, especially when not using the **Caution** engine for more than 30days. Change in quality of fuel may cause trouble when start or while running.

# 2 Run

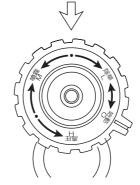
- Start engine and adjust throttle lever to accelerate revolution until high speed. 1.
- Check if liquid is spraying from spray head. 2.
- 3. "H" depending on working condition.

#### Position of pressure adjusting handle





Between "L" and "M" = between weeding and normal spray



A Caution	Do not run without wate without water more than
	without water more than

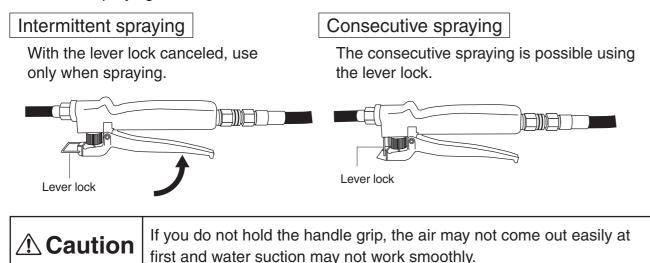
After checking the machines condition, turn pressure adjusting handle and set "L", "M", or

er except when removing water. Running in 1 minute may cause trouble.

#### **HOW TO USE**

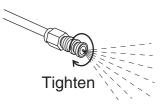
#### 3 Spraying

By operating the handle grip, you can select either the consecutive spraying or the 1. intermittent spraying.



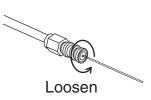
#### Adjustment for spray head 2.

Universal 1-head spray mouth ... Rotating the spray head can adjust the spraying condition.



[When spraying a wide area]

• Tighten the spray head to the right to switch from direct spraying to mist spraying.



[When spraying in the distance]

· Loosen the spray head to the left to switch from mist spraying to direct spraying.

Do not overloosen the head since it may come off.

### 4 How to Stop

Disengage the handle grip lever to stop 1. spraying.

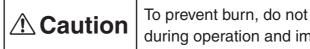
\*When using the lever lock, cancel the lock.

Set the pressure adjusting handle to the "0" position and restore the throttle lever to the 2. low speed.

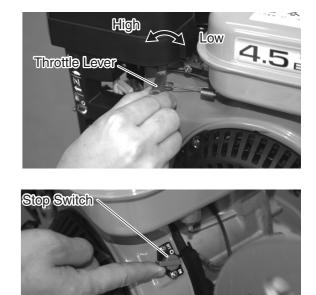


Set the stop switch to "OFF" to stop the 3. engine.

Hold the handle grip and confirm the pressure in the hose is released. 4.







To prevent burn, do not touch the high-temperature part of the engine during operation and immediately after stopped.

# **CAUTION AFTER USE**

Spray clean water for 2-3 minutes to wash out chemicals from inside of pump, hose and 1. nozzle after use.

	▲ Caution	Remaining chemical inside of pump or nozzle will harden or cause deterioration to packing and damage pump.
		deterioration to packing and damage pump.

After you finish washing, make sure tank is empty and move pressure adjusting handle 2. back to "O" position before switching "OFF".

<b>▲</b> Caution	In case of possibility of freezing, use antifreeze and run through pump, hose and nozzle after wash with water. Do not leave antifreeze liquid inside of pump and nozzle. (Read carefully antifreeze operation manual before use)
------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Make sure the stop-switch is "OFF" immediately when lice	
<b>Caution</b>	and no more spray from nozzle.
	Running without liquid may damage pump.
	<b>Caution</b>

- Remove fuel (gasoline) inside of tank and run engine until engine stops automatically at 3. idling. P
  - [How to use up fuel]
  - 1. Adjust pressure adjusting handle to "O" position and start engine.
  - 2. Move throttle to "LOW".
  - 3. Run until engine stops automatically.
  - 4. (For long storage) Remove engine oil completely

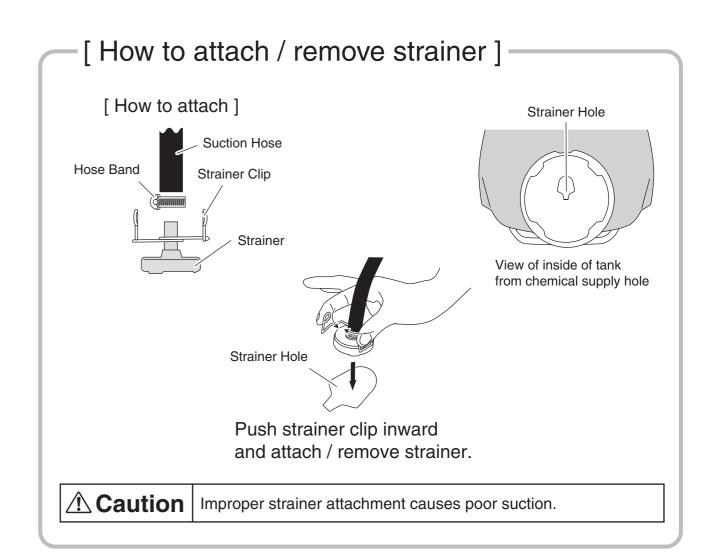


Oil Drain Plug



4. nozzle.

<b>A</b> Caution	Long exposure to direct may cause burst when
<b>▲</b> Caution	Always keep inside of ta attached strainer whene into pump, it will affect p pressure decline.

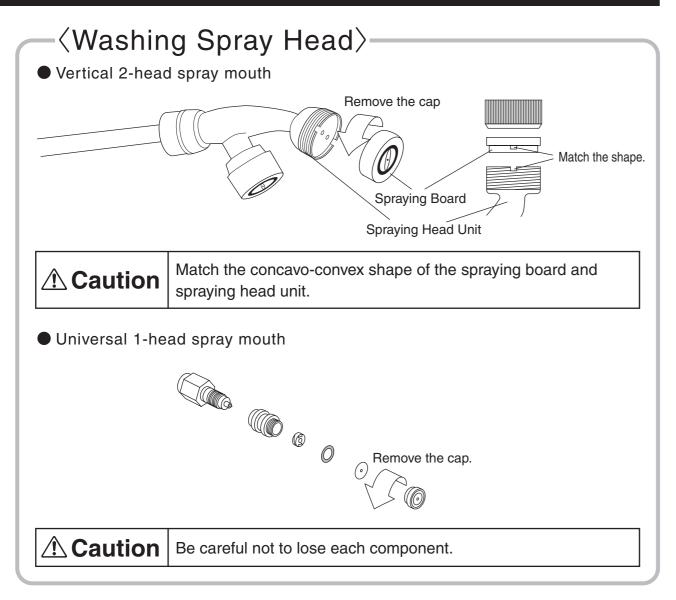


#### **CAUTION AFTER USE**

Remove dirt from engine, pump, nozzle, etc. If moisture is left, engine gets rusty and it may cause trouble. Keep this machine in a place out of direct sunlight after drying pump and

> t sunlight may make hose deteriorate and it spraying.

ank and strainer clean and make sure to use ever using the machine. If sand and dust get performance, for example delivery volume and



# TROUBLE AND MAINTENANCE

Symptom	Possible Cause	Maintenance
Cannot pull	Engine trouble due to use of all fuel	Change fuel. If it is still in bad
recoil starter	Engine trouble due to use of oil fuel	condition, ask service station.
or recoil is	Rust inside of engine	Ask service station
hard to pull	Burned engine	Ask service station
Engine does	Clogged carburetor	Ask service station
not start	Plug is wet	Check or exchange plug * See maintenance 3
	Dirty air cleaner	Wash air cleaner (* See engine operation manual)
	Too much engine oil	Adjust amount of engine oil
No water	Clogged delivery hose	Remove dust from delivery hose
suction	Remaining pressure inside of	Loose volume adjusting handle
	delivery hose	and remove pressure.
	Clogged strainer	Remove dust
	Clagged halo of aprov hood	Wash spray head with water
	Clogged hole of spray head	* See "Caution after use" P.17
	Loss of packing from subtion boso	If packing is lost or broken,
	Loss of packing from suction hose connection	change to new packing.
		* See "Maintenance 2"
	Loose screw of suction hose connection.	Tighten connection screw
	Clogged delivery valve and suction	
	valve. Wear or breakage of consumption	Ask service station
	parts. (cylinder pipe, Piston rod,	Ask service station
	packing, pressure adjusting spring, etc)	
	Air is coming into suction side.	Check suction pipe * See "Maintenance 2"
	Bad engine revolution	See engine operation manual
	Running engine at low speed	Shift to high speed
	Air is coming into delivery hose	Take off reel connection hose
		and start * See "Maintenance 1"
	Position of pressure adjusting	Set pressure adjusting handle at
	handle is not "O" when start	"O" position before start
		* See "How to Use" P.13
	Handle grip is not "spray" condition	Make handle grip spray condition
		* See "How to Use" P.15
	Just after start engine	Run engine for 1 to 1 and half min
Suction is OK	Clogged hole of spray head	Wash spray head with water
but cannot spray Liquid comes out from		* See "Caution after Use" P.19
surplus water hose	Clogged delivery hose	Remove dust from delivery hose

Symptom	Possible Cause	Maintenance
Low spray	Air is coming into suction side	Check suction pipe
volume Bad		* See "Maintenance 2"
condition of	Decline of engine output	Check and repair
spray	Water leak from hose and connection	Stop water leak
Cannot increase	Clogged hole of spray head	Wash spray head with water
pressure	Clogged hole of spray head	* See "Caution after Use" P.19
	Wear of spray head hole	Exchange spray head
	Pressure adjusting handle is set at	Adjust pressure adjusting
	"O"	handle to "L", "M" or "H"
	Wear of consumption parts	Ask service station.
Oil leakage	Oil leakage due to engine fall	Ask service station.
from muffler	Burned engine	Ask service station.
or air cleaner	Too much engine oil	Adjust to proper engine oil amount

Piston seal, Oil seal, Packings, O-rings, Piston, Piston rod, Springs and Delivery hose are consumption parts. Repair for those parts are out of guarantee even within guarantee period. Recommend to exchange those parts every 100 hours; however lifetime of those parts may become shorter depending on chemicals.



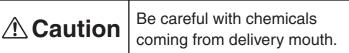
Do not do overhaul and repair by yourself except those which are mentioned in the operation manuals. Ask service station.

# MAINTENANCE 1

Take off reel hose and run the machine.

If spray does not start, the major possible cause is that air is coming into delivery hose. In this case, follow these steps to check.

- 1. Take off reel connection hose with spanner etc.
- 2. Start engine
- 3. Make sure to check liquid is coming from delivery mouth.





4. Attach reel connection hose.

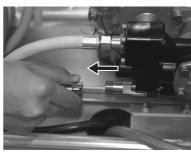


Remove water (liquid) from inside of delivery hose as much as Caution possible. If water (liquid) is left inside of delivery hose, it would be difficult to let air out.

# **MAINTENANCE 2**

Check suction side pipe air is coming into suction hose. If this is the case, follow these steps to check.

1. Take off suction hose



3. Touch suction mouth with your hand while running engine.

If you feel that your hand is sticking to suction mouth, pump has not problem and the main cause is that air is coming into suction hose.



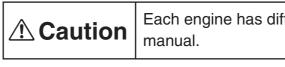
## **MAINTENANCE 3**

Check if plug is wet or dirty.

If plug is wet or dirty, clean it with cloth.



gap.

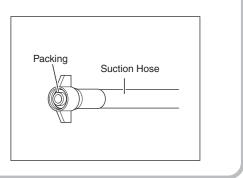


If suction does not start or spray volume is less, the major possible cause is that

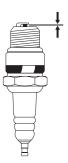
2. Start engine



- 4. Check again that the connection has packing and suction hose does not have a hole.



Check if gap of spark plug is proper. Proper gap is 0.6 - 0.7 mm. If not, adjust the gap.



• Exchange to new plug if engine does not start after cleaning plug or adjusting the

Each engine has different plug. Read engine operation

# MAIN AFTER PARTS

Order parts from the shop where you bought the machine. Check parts code and parts name before ordering.

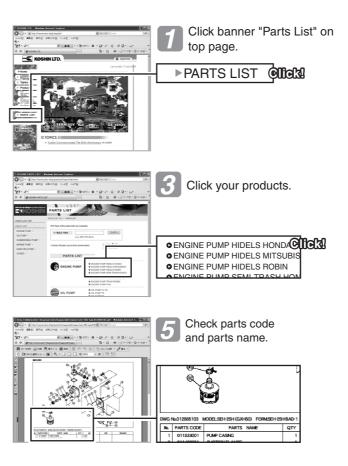
For other parts, go to KOSHIN website to see full parts list.

	Parts	Parts Code	Parts Name
Suction Hose	Suction Hose Assy Nipple Packing Hose Band Strainer	0458331	Suction Hose Assy $(\phi 10 \times 0.9 \text{ M})$ (with Nipple packing C)
		0451448	Nipple Packing C
		0451450	Strainer
Ð		0451598	Hose Band
Surplus Water Hose	Surplus Water Hose	0452536	Surplus Water Hose ( $\phi$ 9 $ imes$ 0.8 M)
later Hose	Clip	0451508	Clip
Deli	Nipple Packing A Small Delivery Hose Assy Big Nipple Packing B	0451837	Delivery Hose Assy ( $\phi$ 8.5 $\times$ 50 M)(with Nipple Packing A & B)
Delivery Hose		0450949	Nipple Packing A (small)
Hose		0450950	Nipple Packing B (big)
	Nipple Packing B 2-Step Extensible Nozzle Pipe Assy Handle Grip Swivel	0458075	2-Step Extensible Nozzle Pipe Assy
Nozzle		0451168	Handle Grip (with Nipple Packing B)
e Pipe		0450950	Nipple Packing B
		0451213	Swivel
Nozzle		0458202	Vertical 2-Head Spray Mouth Assy
		0451839	Universal 1-Head Spray Mouth ( $\phi$ 1.5)

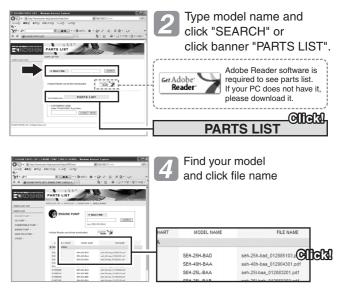
# HOW TO CHECK PARTS LIST

Check parts list for Koshin products from Koshin website.

### http://www.koshin-Itd.jp/english/



Please check carefully correct parts code and parts name.



#### rder parts.