- Read this instruction manual before using product.
- Keep this book at hand for future reference.

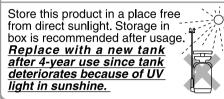
Safety Precautions

 Below information should not be neglected in order for proper use of this product. Harm or damage to user or others can also be prevented. Following information is very important for the safety in handling this product. Be sure to observe them.

 \triangle **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 to damage.

∕!\ Danger

Stop using this product immediately === if you find crack on tank or defect on product. Otherwise tank would explode which may cause injury.



∕!∖ Warning

Never remodel this product. This would cause failure or erroneous function, triggering possible injury.



Do not use this product with chemical which strong acidity or alkalinity and combustible solution such as gas or coal oil.

Otherwise equipment would damage or cause injury.

Precautions in Using Gardening Chemical

∕!∖ Caution

Wash chemical off in nozzle and hose by spraying clean water after dispersing content and washing inside tank. Residual chemical would cause stuff on discharge orifice or strainer or breakage

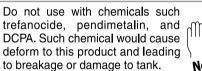
of product for deterioration. Observe attached instruction instruction of applied chemical.

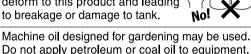


Use chemical in appropriate concentration High concentration would cause harm to plant as well as to this product.

Symptom

Wear protective items such face guard, protective goggle, and gloves to minimize contact or inhalation of chemical during spraying.





Do not apply petroleum or coal oil to equipment. Otherwise equipment would damage or break.

Solution

Procedure

Part Name

*Different models have different accessories. See table below.

Model	Body	Nozzle		
	Tank, Hose and Grip	2 stages extendable, 2 heads (Switchable to 1 head)		
HS-503W	0	0		
HS-703W	0	0		
Content	Nozzle Handle (Pump) Safety valve lever Nozzle grip Change cap Hose cap Safety valve (with pressure gauge) Belt attaching part Nozzle holder	Spray head 1 head switch cock Extendable nozzle Height adjusting cap		

Specification and Performance

	Model	Specified			Operating pressure around safety valve	, , ,		Spray
		quantity	extendable length	length		1 head	2 heads	area
	HS-503W	5 Liters	2 stages extendable, 2 heads (113.5/63cm)	.	0.5Mpa (5kgf/cm²)	approx. 21 min.	approx. 10 min.	56 ~ 72.7m²
F	HS-703W	7 Liters	2 stages extendable, 2 heads (113.5/63cm)	5m		approx. 31 min.	approx. 15 min.	79 ~ 99m²

*Spraying time depends on employed chemical type.



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12, KAMI-HACHINOTSUBO KOTARI, NAGAOKAKYO-CITY, KYOTO, JAPAN 617-8511 TEL.+81-75-954-6111 FAX.+81-75-954-6119 www.koshinpump.com

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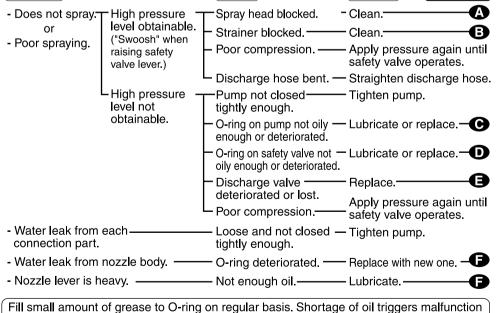
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Troubleshooting

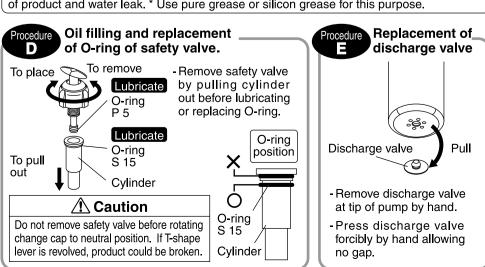
- Be sure to let pressure out of tank before disassembling.
- O Most accumulator system sprayers can be repaired by customer's since they are simply structured. Check chart below for

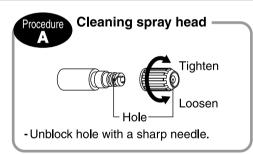
Cause

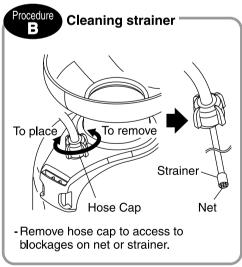
 $[Symptom] \rightarrow [Cause] \rightarrow [Solution] \rightarrow [Procedure]$. Repairing service is available. If listed procedures below do not work, labor/freight/parts are chargeable.

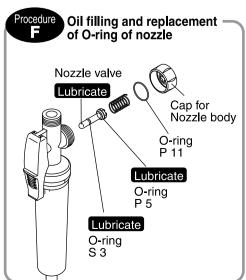


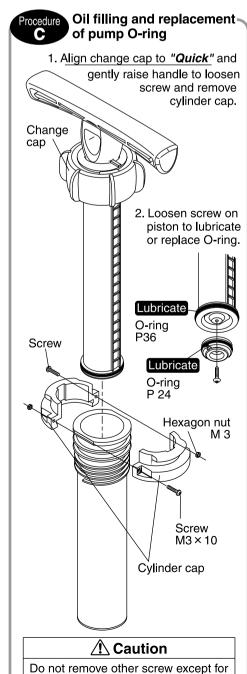
Fill small amount of grease to O-ring on regular basis. Shortage of oil triggers malfunction of product and water leak. * Use pure grease or silicon grease for this purpose.



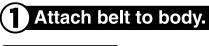


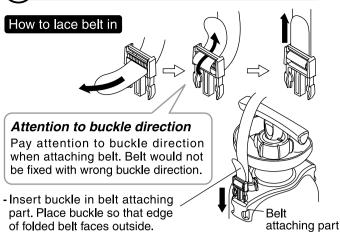




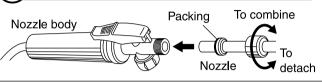


those indicated here.



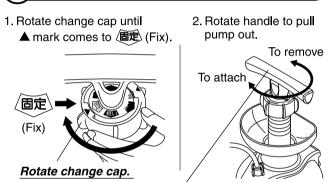


Assemble nozzle.



Make sure that packing is preset on connection part. Tighten up well so no leakage.

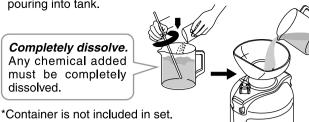
Pull pump out.



Pull pump out while rotating handle. (Counter clockwise)

Pour chemical into tank.

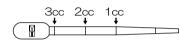
Dissolve chemical sufficiently in a separate container before pouring into tank.



Be sure that no previously used chemical has been left in tank. If so, chemical reaction may occur generating harmful gas.

Do not exceed specified quantity. This would shorten spraying duration. (Specified quantity: 5L tank: 5th scale, 7L tank: 7th scale)

Water	Chemical (cc)			
(L)	× 500	× 1000	×2000	
1	2	1	0.5	
4	8	4	2	
5	10	5	2.5	
7	14	7	3.5	



Scale unit of syringe: cc

Restore pump to original position before pressurizing.

🗥 Warning

Do not pressurize when nozzle is in nozzle stand. This may cause injury.

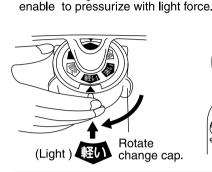
🗥 Caution

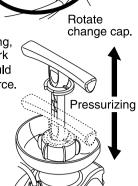
Make sure that nozzle lever is not set for spraying before applying pressure to prevent erroneous function.

- 1. Place pump in tank.
- 2. Rotate change cap to align ▲mark to Ѿ (Quick). Move handle upward and downward to apply pressure into tank.

Precaution in changing. Push handle down to the lowest position to operate

change cap. 3. If you feel heavy while pressurizing, rotate change cap until __ mark places at (Light) This would





Indicator for pressurizing

Scale around safety valve indicates pressure level inside tank. Apply pressure until scale positions 5 or 0.5Mpa or according to specified quantity of tank. Such level pressure is unnecessary if smaller amount chemical is used. (Appropriate spraying is assured if scale indicates 1(0.1Mpa) or larger.)

This scale just serves as indicator and could slightly deviate from actual pressure level.

4. Stop pressurizing when safety valve pops air. This means appropriate pressure has been obtained for spraying.

Safety Valve

Set for preventing breakage due to overpressure, this automatically lets excess pressure out when appropriate pressure is reached.

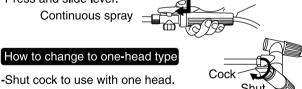
5. Lock handle after applying pressure.

How to Use

Disperse chemical. 1. Adjust nozzle length.

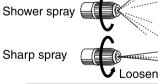
- Close cap tightly after adjustment.
- 2. Now, disperse chemical.





Sharp spray

How to adjust spray



Loosen

How to adjust nozzle length

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Do not twist and loosen tighten up cock over one rotation to avoid leak.

3. Apply pressure again if spraying force becomes weaker.

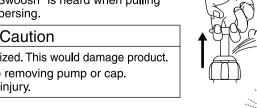


- Do not overturn cock exceeding 180°. Disperse orifice may break.
- Do not touch nozzle lever by mistake when resting nozzle on nozzle stand to avoid erroneous spraying.
- Do not leave leftover chemical inside tank for a long period of time.

Let pressure out in tank after use.

 Let pressure out until no "Swoosh" is heard when pulling safety valve lever after dispersing.

- Do not leave tank pressurized. This would damage product.
- Release pressure before removing pump or cap. Failing this would cause injury.

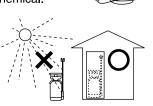


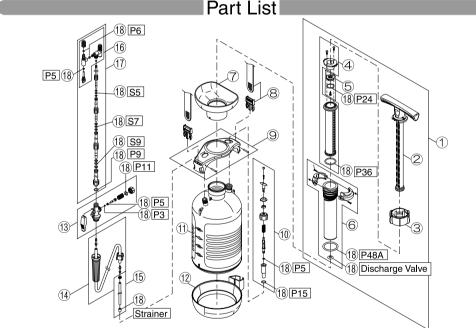
Clean unit properly before storing in box.

- Wash leftover chemical in tank with clean water immediately after using. - Repeat several times after pouring clean water in tank and clean nozzle and hose by spraying for 60 seconds. This is efficient to remove all chemical.

⚠ Caution

- Leftover chemical would solidify in nozzle.
- Put this product in box after use. Avoid direct sunlight. Direct sunlight accelerates deterioration of tank, may cause explosion while pressurizing in the future.





HS-503W-BAA-0 (040872204), HS-703W-BAA-0 (040872404)

No.	Part No.	Part Name	Compatibility with HS-C series
1	0408699	Pump assy	×
2	0408700	Handle	×
3	0408701	Change cap	×
4	0408702	Inner cylinder assy	×
5	0408703	Piston assy	×
6	0408704	Outer cylinder assy	×
7	0408705	Funnel	×
8	0408706	Shoulder belt assy	×
9	0408707	Head cover assy	×
10	0408708	Safety valve assy	×
11	0408709	5L tank	×
' '	0408710	7L tank	×
12	0408711	Bottom cover	×
13	0408712	Nozzle body assy	0
14	0408713	Discharge hose assy (5m)	0
15	0408714	Suction hose assy (For 5L tank)	×
15	0408715	Suction hose assy (For 7L tank)	×
16	0408716	2 heads spray head assy (Changeable to 1 head)	0
17	0408717	2 stages extendable nozzle with 2 heads (Changeable to 1 head) [1135-630mm]	0
17	0408164	4 stages extendable nozzle with 2 heads (Changeable to 1 head) [2010-630mm]	0
18	0408719	Packing set	×
-	0108693	Grease (5g)	0

*Le specifiche sono soggette a modifiche e migliorie senza preavviso. Aprile 2004.