

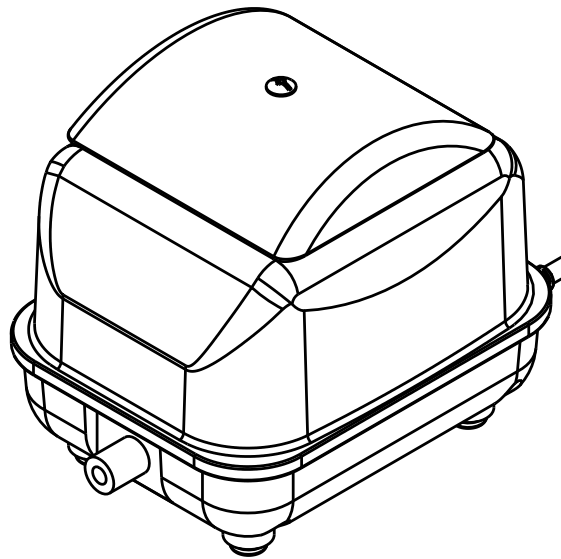
# **A5-BH9 B5 B7 9 MANUAL FOR LINEAR COMPRESSORS**

MODEL : JDK-20

JDK-30

JDK-40

JDK-50

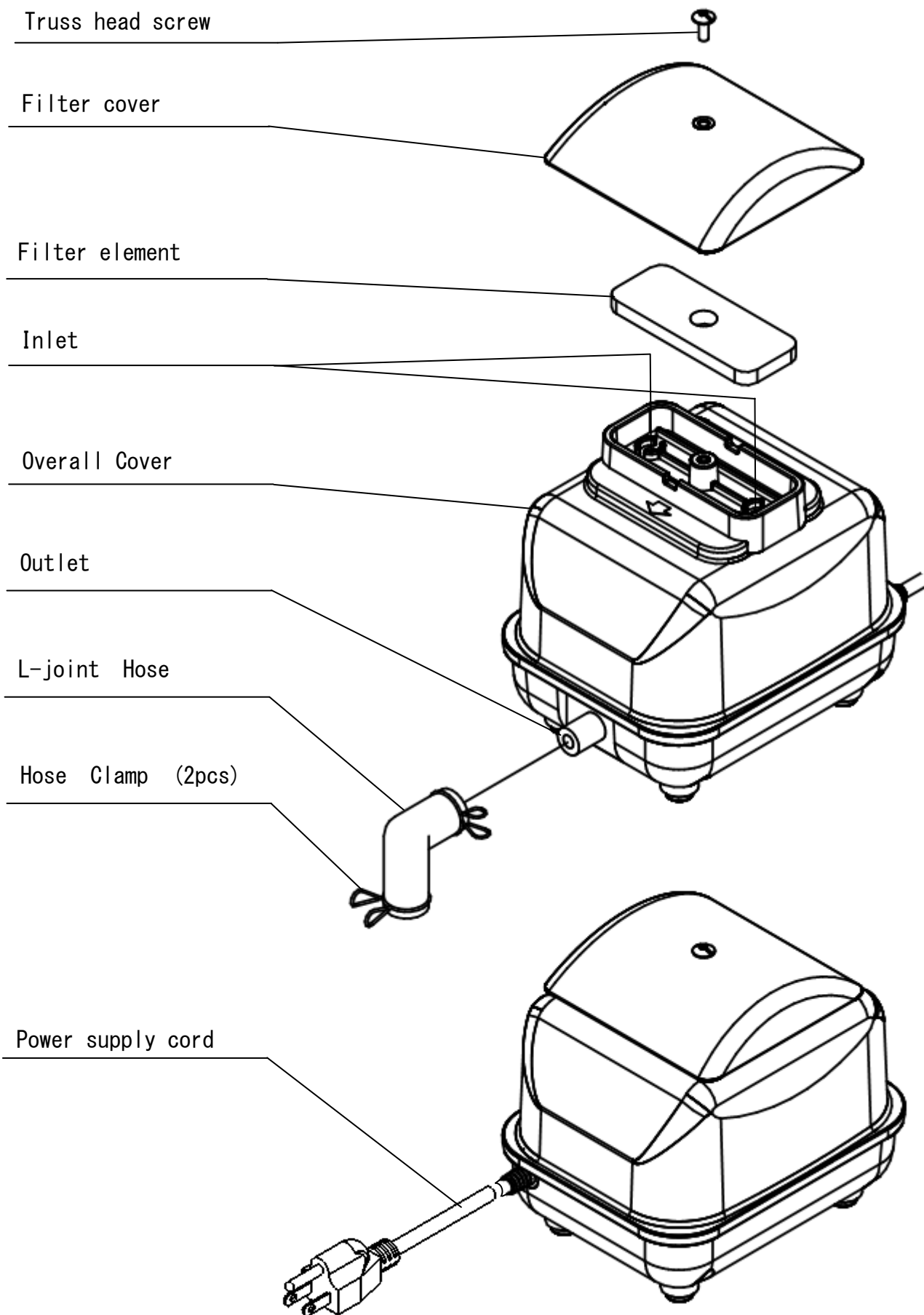


**READ AND FOLLOW ALL SAFETY INSTRUCTIONS.  
KEEP THIS MANUAL FOR FUTURE REFERENCE.**

# **SECOH**

**SECOH SHANGHAI MEC LTD**

# Parts name



## Periodic maintenance



### WARNING

- Always disconnect power before servicing. Failure to do so could result in electrical shock, personal injury or death.



### CAUTION

- Clean the filter element quarterly. A clogged filter element can cause overheating or pump failure.

### Filter element cleaning

- Undo the truss head screw and remove the filter cover (Ref.:Fig.2-A).
- Remove the filter element and shake out the dust by hand. If it is heavily clogged, wash it with a neutral detergent. Rinse with water and dry it in the shade
- Reassemble the filter element back in place and press in the filter cover.
- Fix the filter cover by the truss head screw.

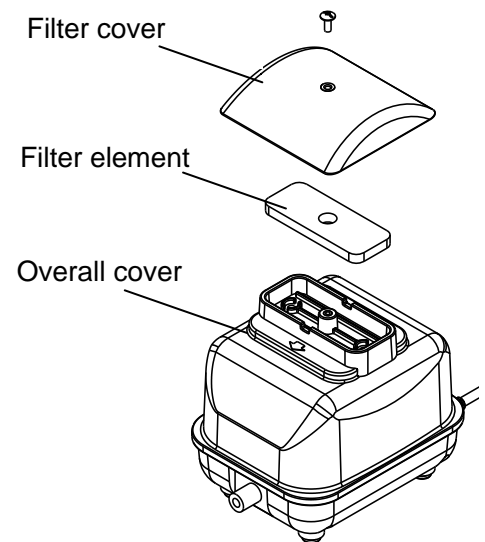


Fig 2-A

### Replacement of filter element, valve box, diaphragm

- Replace the filter element following the procedure in 3-1 filter element cleaning.
- Undo the screws (A) and remove the overall cover and overall cover packing. (Ref: Fig 2-B)

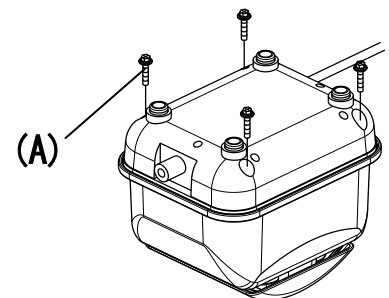
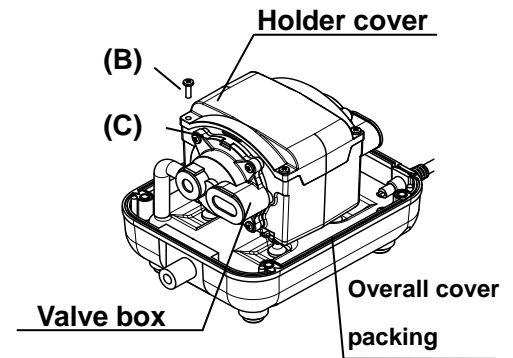


Fig 2-B

- Undo the screws (B) and remove the holder cover. (Ref: Fig 2-C)
- Undo the screws (C) and replace the valve box of both sides. (Ref: Fig 2-C)
- Undo the nuts (D) and remove diaphragm holders and diaphragms from the magnet. (Ref: Fig 2-D)
- Set the new diaphragm holders and diaphragms and fasten them with the nuts. (D). ( Ref: Fig 2-D)



**Fig 2-C**

**Notes:**

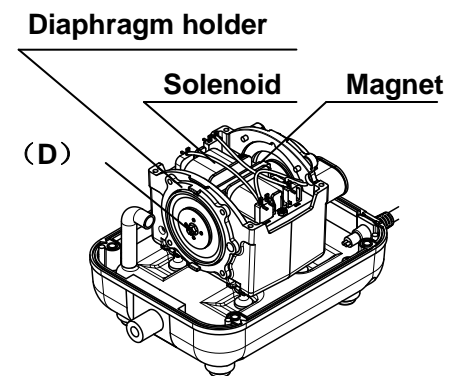
Use the new nuts (D) in the repair kit.  
Note the locating notch for reassembly.

- Assemble by reversing the disassembly procedure.

**Notes:**

Keep the magnet from touching the solenoids.

- Check airflow and sound level before installation.



**Fig 2-D**



**WARNING**

- If the magnet contacts the solenoids during operation, it will cause damage on parts, abnormal heat, and short circuiting.



**DANGER**

- Do not touch live parts. Touching live parts will result in electric shock.

## Automatically reset thermal protector

An automatically reset thermal protector installed on the solenoid stops pump operation if solenoid temperature becomes over  $130 \pm 5 \text{ }^\circ\text{C}$ . When the solenoid temperature cools down to  $85 \pm 15 \text{ }^\circ\text{C}$ , the protector is reset automatically and pump operation restarts.

## Trouble shooting

Observation	Possible cause	Action
Pump does not operate.	<ul style="list-style-type: none"> <li>▪ Improper electrical connection</li> </ul>	<ul style="list-style-type: none"> <li>▪ Check plug and outlet and plug completely.</li> </ul>
Discharge air decreased.  Pump surface is abnormally hot.  Pump operates intermittently	<ul style="list-style-type: none"> <li>▪ Pipe or diffuser clogged</li> <li>▪ Valve in plumbing shut</li> <li>▪ Filter element clogged</li> </ul>	<ul style="list-style-type: none"> <li>▪ Clean pipe or diffuser.</li> <li>▪ Open the valve</li> <li>▪ Clean filter element.</li> </ul>
Pump operates but with abnormal noise.	<ul style="list-style-type: none"> <li>▪ Faulty valve or diaphragm</li> </ul>	<ul style="list-style-type: none"> <li>▪ Replace valve and diaphragm.</li> </ul>

## Replacement parts

Kit name	Contained parts	Quantity (pcs)
Diaphragm repair kit for JDK	Diaphragm	2
	Diaphragm holder	2
	Nut	2
	Valve box	2
	Filter element	1
	Overall cover packing	1