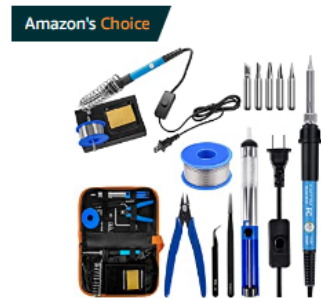


## Seamax SUP Electric Air Pump Repair 1 – Pressure Engine Replacement

If the air pump has over heat damage, sand or dust going into the cylinder to cause the lube fail damage, over-using wear off the piston O-ring or factory defects, the pump can still turn on but the pressure not building up, for example pump keep staying at 3-5 PSI. You may need to replacement the cylinder and piston inside your air pump. This instruction will help you to do the replacement.

We may send you the whole assembly of the high-pressure unit including the motor. You may simply replace the new unit to make it work. But for using this new assembly, you may need a 30W soldering iron to disconnected the motor wire and reconnect them to the new unit. Please know the Amp current will reach 10A max and lots vibration during pumping, wire simply connection is not work.



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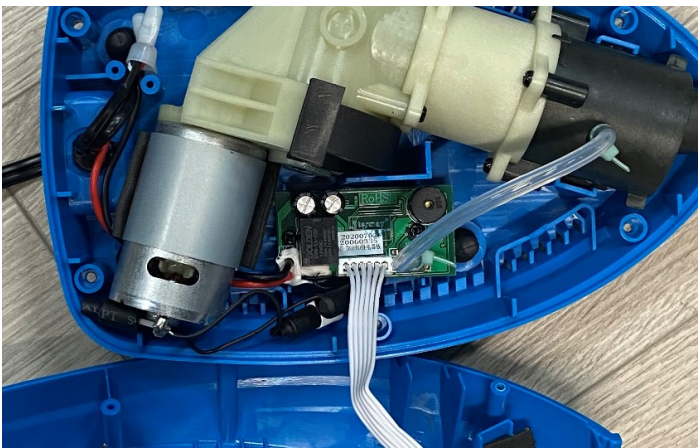
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If you can have a soldering iron kit at home and know how to use, that will be great, otherwise you may spend some money to purchase it from a store, eBay or Amazon. But if you never use soldering iron before and don't know how to use it. Then your repair job will be harder, you get to keep using the original motor and some of the old parts. Below instruction can tell you how to do a replacement job of pump cylinder and piston.



1. You will receive this new part from us, (left size of the photo), and you need to have a mid size Philips screw drive ready. Bring the pump inside of your home and start on a table.

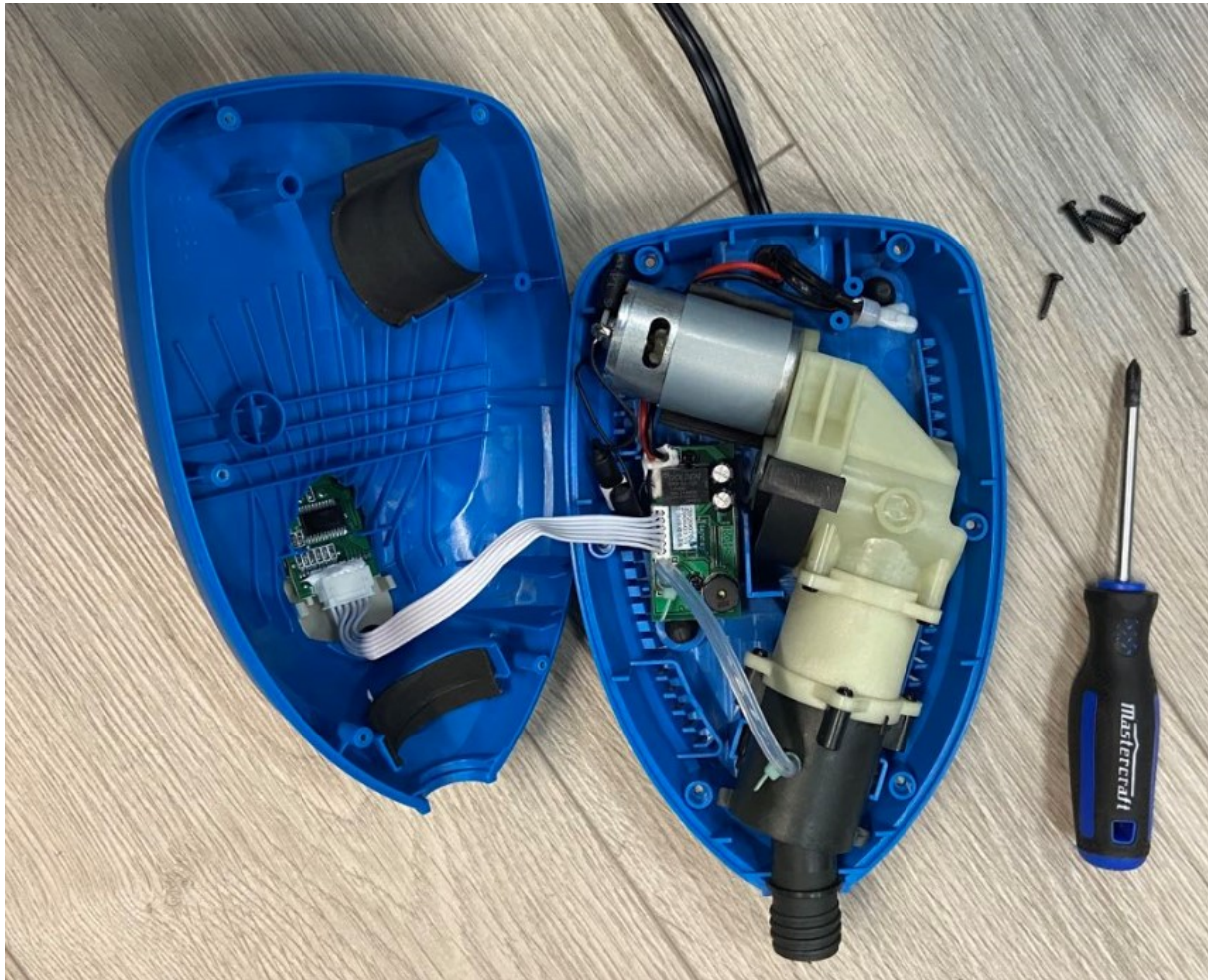


Pressure Engine Assembly A - Model SUP20S / SUP20S PRO



Pressure Engine Assembly B - Model SUP20D / SUP20D PRO / SUP16DB PRO / SUP20 Max

2. Open the pump from the back and total 6 screws to open it. The existing assemble is located at the middle of the air pump, and there are no screws of the air compressor unit. Be careful of the white band wire, and if you want to disconnect it, you can do that. But make sure the both end is fully connected to the socket before close the pump housing.



3. From right side of the screw drive of below picture, those 2 parts are the major unit that you need to replacement with your air pump. The color of parts is not a issue.

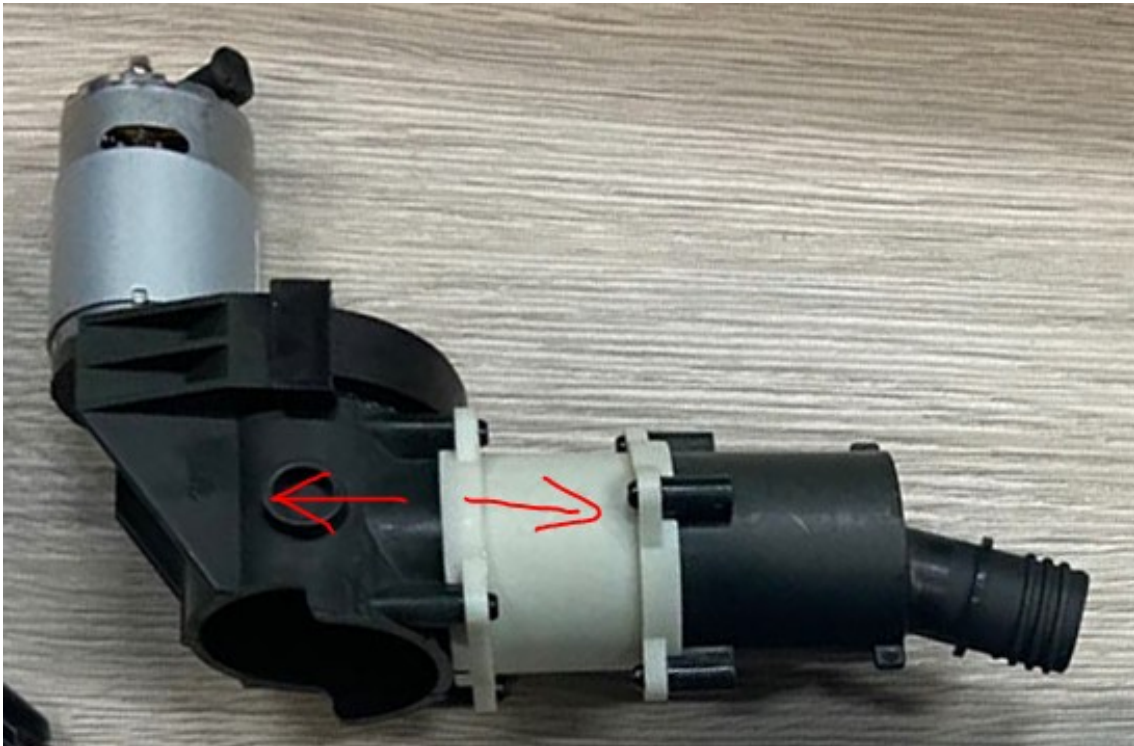


4. If you change the assembly but keep the old motor using, then you don't need to use soldering iron to reconnect the motor's 12V power cables. There are 2 screws to remove the motor from the assembly.

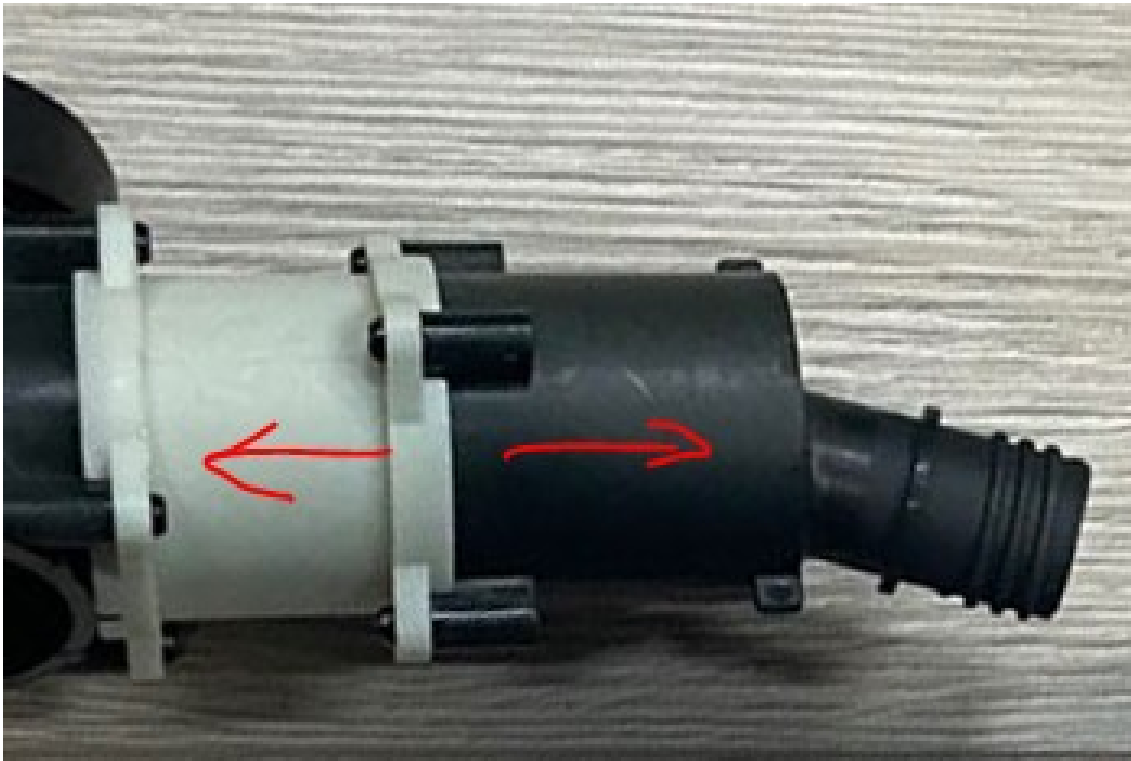


5. Below images will tell you how to get the cylinder out of the assembly. In some case, you may only be able to replace the compressor parts.

Step 1 - First open the 4 screws to separate the cylinder and motor piston.



Step 2 - And then you will open the rest screws to completed remove the cylinder parts out of the assembly. So, when the assembly is completely separated, you can choose the needed parts to replace for your air pump. And we hope this instruction will help your air pump get back to work. Thanks for reading.



Seamax Support Team (2021) email – [support@seamaxmarine.com](mailto:support@seamaxmarine.com) text message – 1-778-833-1398