

Air Compressor Trouble Shooting Guide

Problem:

Air Assist has stopped working or significantly reduced in pressure.

Tests to undertake:

First thing to check is that the air compressor has power going to it and is switched on, this is typically powered from one of your laser machine outlets on the back of the machine, and activated when the black Key switch is turned to the "on" position.

The air compressor if powered on will be vibrating, you can check this by feeling the compressor with your hand.



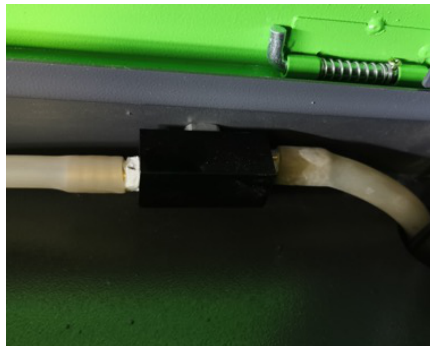
Once you have determined the air compressor is turned on, you will then check that it is expelling air.

If you remove the silicon hose from the end of the brass fitting you will feel a strong air pressure from the compressor.

If you do not feel any air pressure on your hand then your air compressor may not be powered on or may be faulty.

It may be prudent to try the air compressor in an alternative mains socket.

Once we have established that there is air flow from the compressor, we need to consider that the most likely issue is a blockage somewhere along the line. We would then check the lines in and out of the air regulator pictured below.



If you can ensure that the turn screw has been fully opened as pictured on the above left image. You will then look into the body of the machine on the right hand side and see the air regulator as pictured on the above right image.

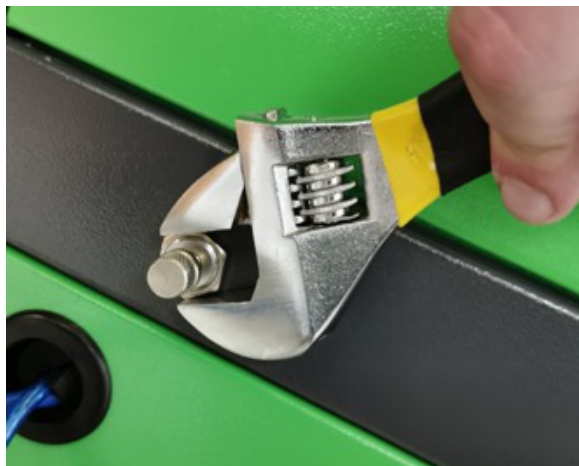
If you can remove the silicon hose that is connected to the right hand side of the regulator and check that you have good air pressure, this will eliminate the possibility of the blockage with the hose direct to the air compressor. Once this has been checked please reconnect.

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The next thing to do is to remove the silicon hose on left hand side of the regulator. You will now feel the end of the brass fitting to ensure you have good pressure coming through.

If you find that you do not a good air pressure, the regulator may have got blocked or partially blocked.

We would advise to remove both silicon hose from left and right. You would then need to get an adjustable spanner and loosen the external nut as pictured below:



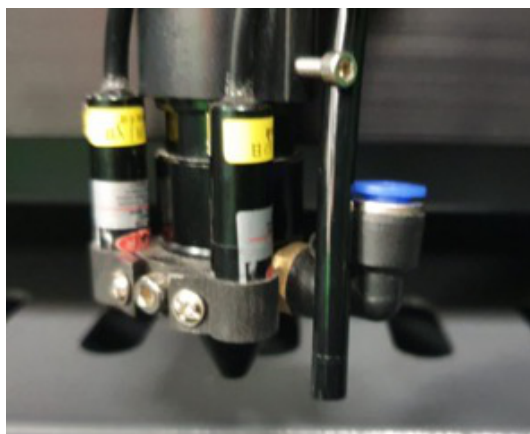
Once this nut has been loosened, you will be able release the air regulator and remove it from the machine.

There are sometimes small micro filters within the regulator that can get blocked quite easily in a dusty environment. You can easily remove these small mesh filters by using a pin or small tweezers.

This should then allow the air to pass through and maintain good air pressure.

You can then reconnect the air regulator and tighten the external nut as well as reconnect the 2 x silicon hose

Should this not resolve your problem, the last step is to take the air hose out of the push fitting that is located on the head next to the nozzle as per the picture below.



If you still have good air pressure when the hose is removed from the elbow then the hose from head to air regulator is good. This would point to a possible blockage in the elbow, this can be disconnected and cleaned or replaced if a spare is available.

This should then hopefully resolve any or all air assist issues.