

How to Replace the I/O Board on Tafonius

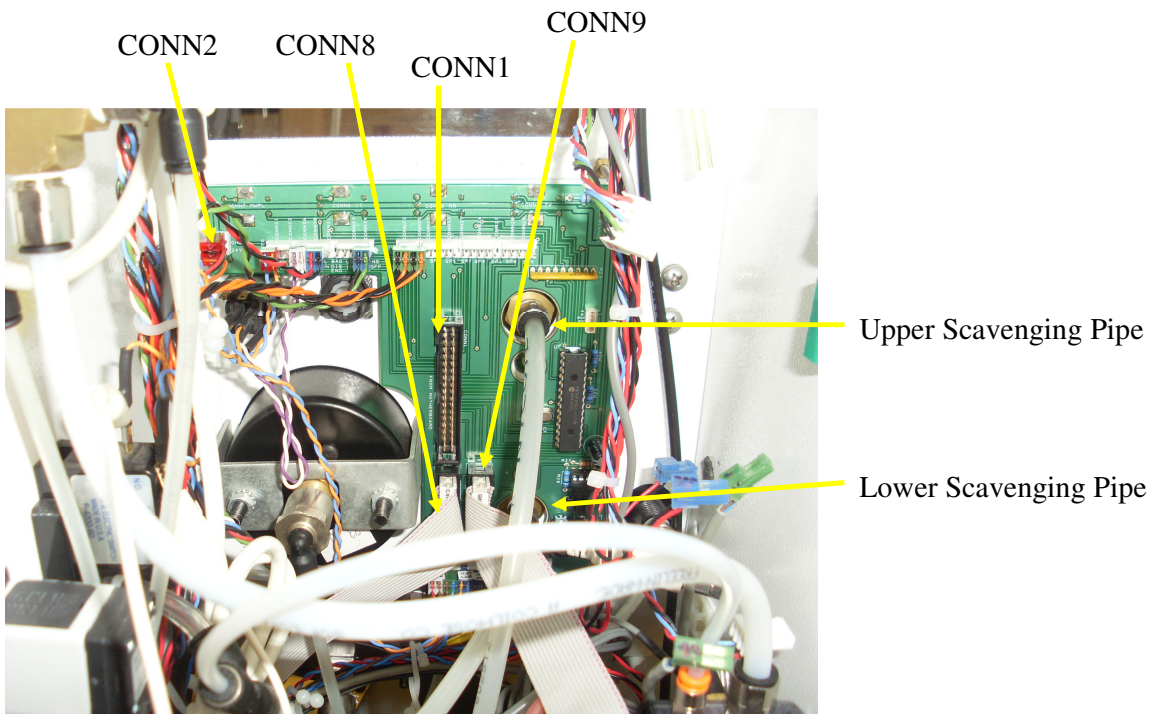
The I/O board has a lot of connections fitted on 2 rows of connectors. One row is along the top of the I/O board and the other along the bottom. To avoid confusion it is recommended that the board be removed without disconnecting any of these connections. The board can then be pulled back away from the front panel and each connector transferred one by one to the new board making sure that the connection on the new board is the same as the original board.

Removing the existing board

Remove the 34-way ribbon cable connector **CONN1**

Remove the 16-way ribbon cable connector **CONN8**

Remove the 16-way ribbon cable connector **CONN9**

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Remove the upper scavenging pipe from its connection through the I/O board by pressing on the black rim around the pipe connector and simultaneously pulling the pipe out of the connector.

Label this "Upper"

Remove the lower scavenging pipe in the same manner.

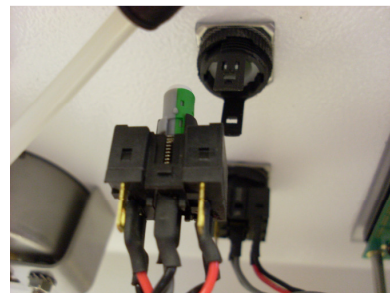
Label this "Lower"

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- Remove the power connector **CONN2** ☐
- Remove all of the 4 control knobs at the front of the machine ☐
- Depending on type, this may require a very small screwdriver or a small Allen key. A set of Allen keys can be found in the pocket of the back door.
- Undo all 4 securing nuts from the controls at the front of the machine and remove them and their washers ☐
- Undo & remove the single large **screw** to the right side of CONN1 ☐
- Make sure the **spacer** under this screw is retained when removing the board ☐

The board should now be free and can be pulled out of the front panel and into the machine. Sometimes the left-hand side will catch on the back of the RUN switch and you may need to remove the back of the switch. There are 2 small tabs, one either side of the switch. Release both of these using a small screwdriver and then pull the back of the switch off. The picture here shows a similar switch and the method of removal.



Fitting the new board

- Now transfer the two rows of connectors one at a time to ensure that the original positions are maintained. ☐
- When all of the connectors have been transferred, position the new board back into the front panel so all of the spindles come through the four holes.

Make sure the **spacer** under the large securing screw is in place. ☐

- Fit the washers and nuts to the spindles and tighten ☐
- Screw in the large **screw** next to CONN1 to secure the board ☐
- Replace the 16-way ribbon cable connector **CONN8** ☐
- Replace the 16-way ribbon cable connector **CONN9** ☐
- Replace the 34-way ribbon cable connector **CONN1** ☐

Replace the lower scavenge pipe by pushing it firmly into the lower gas connector ☐

Replace the upper scavenge pipe by pushing it firmly into the upper gas connector ☐

Replace the power connector **CONN2**

Fitting is complete