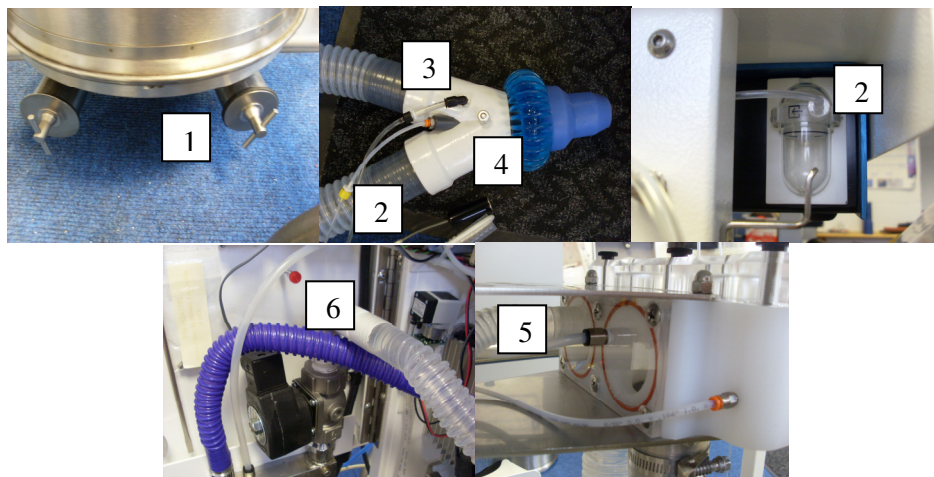


Testing for leaks on the Tafonius large animal ventilator

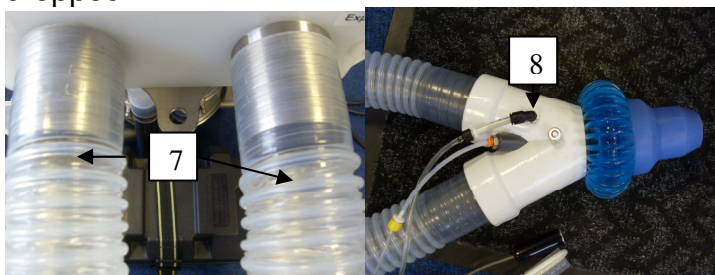
Before you start make sure the following are **connected**:

1. The 2 Drain plugs at the rear of the machine
2. The sidestream sampling line to the sampling catheter at the Y-piece
AND to the water trap at the monitor.
3. The Airway Pressure sensing line - check the connection at the
machine end as well as the Y-piece end.
4. The Salbutamol port stopper on the Y-piece
5. The Dump tubing connection at the back of the valve block
6. The Dump tubing connection at the dump valve inside the back door



Then check the common areas for leaks:

- Valve block - make sure it is secured normally. Even if it looks OK, take it off and re-fit it.
- Check the Patient tubes just near the cuffs (7). They sometimes split here. Check the pressure offset connector on the Y-piece (8). These can crack if dropped.



- Check the Y-piece itself for cracks.



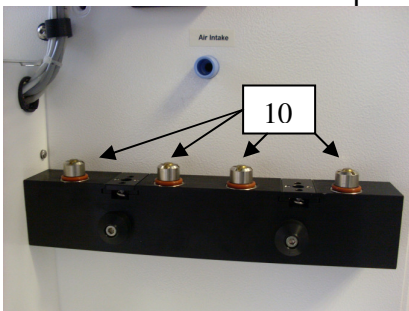
- For the whole Y-piece the quickest thing to do is to run the leak test and while it is pressured, put the Y-piece in a bucket of water to find the leak. That will eliminate the Y-piece and one end of the patient tubing. Then swap the tubing round to test the other end.
- Check that the vaporiser is sat on the backbar correctly **OR** remove it.
- Check the soda-lime tray is seated properly and that there are no lumps of soda-lime stuck in the seals around the rim.
- Check the manual take off connector or valve to ensure that is sealed/closed.
- Check the drain plugs.

If you still can't find the leak, run a manual leak test and take the pressure to 40 or 50cm and keep the oxygen flowing to maintain the pressure. Then go around the machine listening and feeling for leaks.

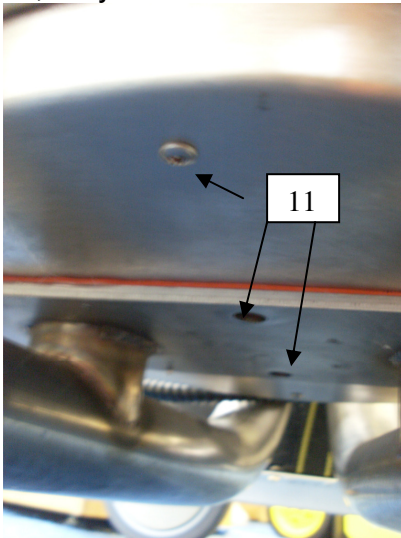
- Feel around the join of the absorber pan to the cylinder - both top and bottom (9).



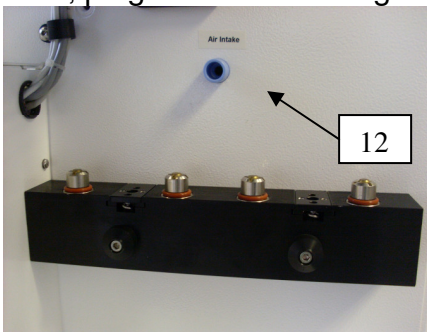
- Feel/listen around the valve block. Check the connections at the back of the valve block as well as the clear perspex lid
- Feel/listen around the patient hose connectors
- Feel/listen around the vaporiser connections on the backbar (10).



- Feel for leaks on the bottom of the absorber pan along the middle. There are 4 holes here which on some machines are used to secure the orange seal (11). On newer machines or machines with the slim style seals there are no screws in these holes and if the seal inside the absorber starts to lift, they can leak here.



- Check for air coming out of the Air intake port (12) where the bacterial filter sits. This is just above and behind the vaporiser backbar. If there is a leak here, plug the intake during the leak test.



- Feel/listen for leaks in the descending hoses from the valve block and check where they join to the valve block and where they join to the metal pipes from the absorber pan.

