

PROCEDURE FOR REPLACING AERATION CLOTHS

This procedure is for replacing a Convair 17° Aeration Cloth (C003HD) on a bolt on cone. Convair also have aeration cloths on internal 22° (weld on) cones, where the procedure is similar, only a different cloth is used (C004HD).

SIGNS TO LOOK OUT FOR

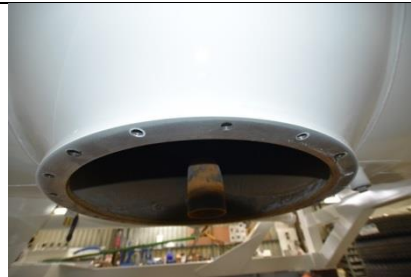
There are certain giveaway signs that will indicate that the aerators inside a tanker may be worn:

- One or more cones may not be emptying properly;
- Product may be coming out of the air line, PRV;
- Valves may be crunching or hard to open/close;
- Visible signs of product around the hoses, ball valves, etc.

REMOVAL AND CLEANING OF OLD

Carefully loosen the bolts holding the bottom flange from the tanker cone;

- (1) As you loosen the bolts, the bottom flange will drop; ensure you have set up something to hold the flange as it comes apart from the tanker. It will be heavy, so ensure something sturdy can hold it.
- (2) Unbolt old pad; and gaskets, and clean all flanges, perforated plate with a wire brush.
- (3) Clean all bolt threads on the tanker and flange with a tap.
- (4) Once all surfaces have been cleaned and check, proceed to the next step (installation of new).



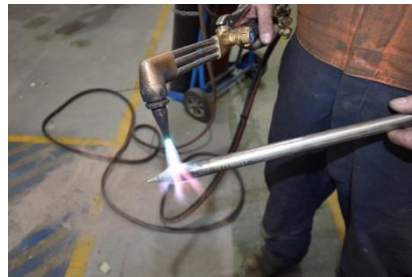


INSTALLATION OF NEW

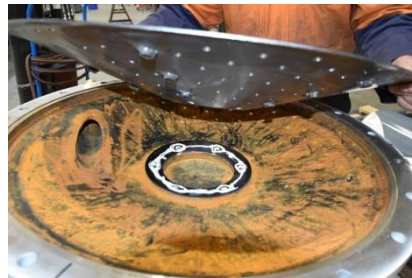
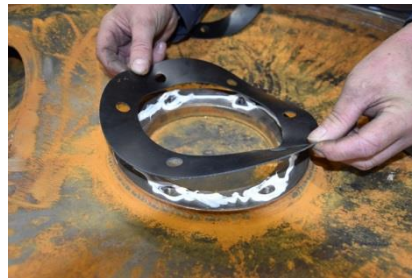
- (1) Line the centre of the perforated plate onto the flange, ensuring the threads for the hold down strip are also aligned.



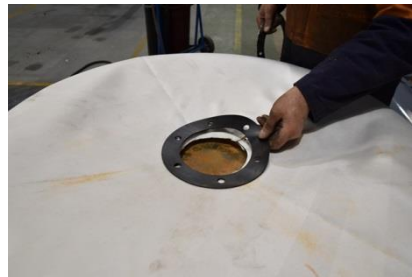
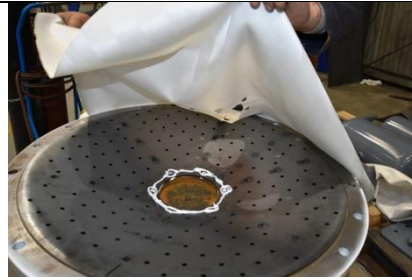
- (2) Place the new cloth on the plate, ensuring you centre the holes and the cloth so that the cloth seam lines up over the holes where one of the hold down strips will be sitting. (i.e. as the seam is the weakest link on the cloth, you want a hold down strip to bolt over it to hold it down firmly).
- (3) Once the cloth is in place, use a marker to highlight where the flange holes are, as we will need to burn holes into the cloth.
- (4) Heat up a poker, ensuring its hot enough to burn a clean hole (not just melt the cloth, as it causes messy residue); and burn holes through the holes you marked out.
- (5) Remove the cloth, and inspect the holes, clean if necessary, and ensure the bolts fit through.
- (6) Finally, remove the perforated plate in preparation for the next step.



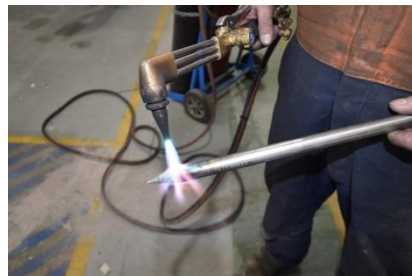
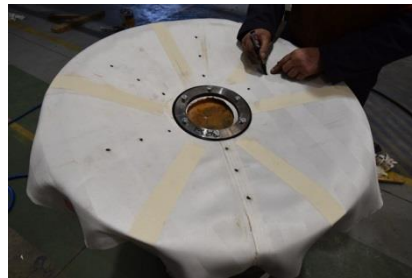
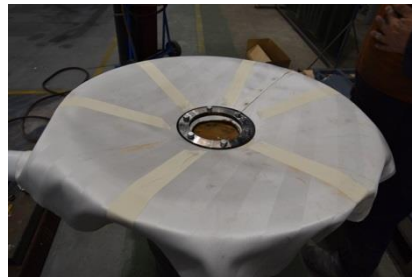
- (7) Apply silicone over the lower small flange, ensuring a good coverage around the bolt holes.
- (8) Carefully place the (C035) gasket over the flange, ensuring the holes line up.
- (9) Apply silicone over the gasket, ensuring a good coverage around the bolt holes.
- (10) Then carefully place the perforated plate back into position, ensuring the holes line up with the gasket.
- (11) Once again, apply some silicone over the perforated plate where the lower gasket sits, ensuring a good coverage around the bolt holes.



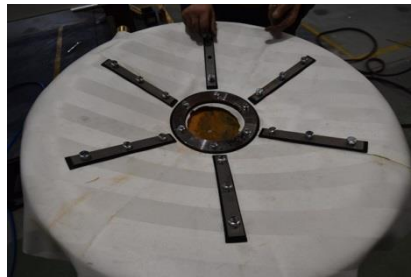
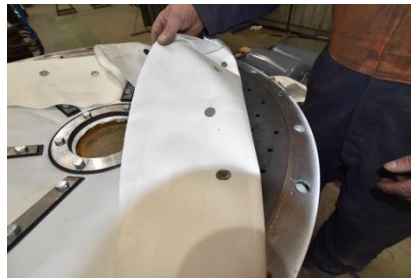
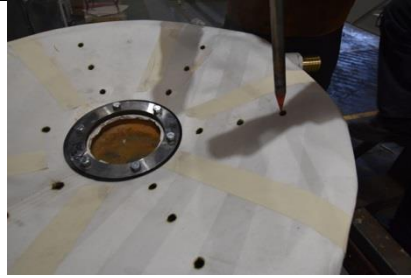
- (12) Carefully place the cloth back on, ensuring the lower bolt holes line up.
- (13) Place the second (C035) lower flange gasket in place (no silicone required), ensuring the holes line up, then place the lower flange on top of that (again no further silicone required).
- (14) Screw in and tighten the bolts through the lower flange, ensuring they don't bottom out, Use M10 x 25 bolts with a washer.



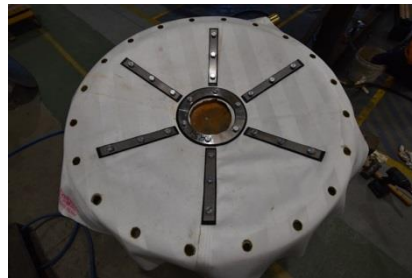
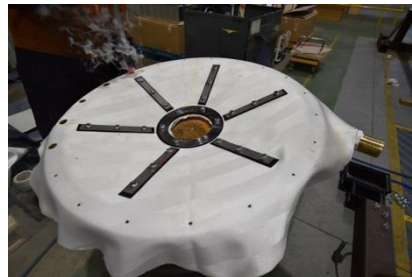
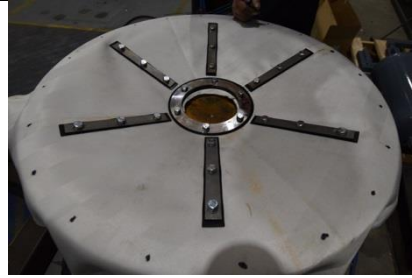
- (15) Stretch out the cloth over the plate, and temporarily stick some masking tape to hold it tightly in place.
- (16) Locate the bolt holes (where the hold down strips will sit) on the plate, and highlight with a marker.



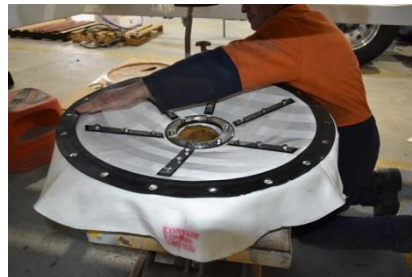
- (17) Heat up a poker, ensuring its hot enough to burn a clean hole (not just melt the cloth, as it causes messy residue); and burn holes through the holes you marked out.
- (18) Turn the cloth over and inspect the holes, ensuring they are clean, and the bolts fit through.
- (19) Stretch out the cloth over the plate, and place the hold down strips (C036) and the steel straps over the holes you just burnt, ensuring the holes line up.
- (20) Screw in and tighten the bolts through the strips, ensuring they don't bottom out, use M10 x 25 bolts. As you are tightening the bolts on each strip, stretch out the cloth, ensuring it sits tight with no wrinkles.



- (21) Next step is to locate the mounting holes around the top flange and highlight them with a marker.
- (22) Heat up a poker, ensuring its hot enough to burn a clean hole (not just melt the cloth, as it causes messy residue); and burn holes through the holes you marked out.
- (23) Turn the cloth over and inspect the holes, ensuring they are clean, and the bolts fit through.
- (24) With the cloth lifted off the mounting holes, apply silicon right around the top flange, ensuring a good coverage around the mounting holes.



- (25) Once again, stretch out the cloth over the plate, ensuring the holes on the cloth line up with the mounting holes on the plate.
- (26) Apply another layer of silicone around the perimeter of the cloth and the mounting holes;
- (27) Carefully place the upper pad gasket (C034) in place, ensuring the holes line up with the holes in the plate/cloth. No further silicone is required.
- (28) The pad is now ready for installation back onto the tank. Lift the completed pad in place, underneath the cone of the tank. Screw in the (M16 x 60 bolts with spring washers) through the pad into the cone, and tighten evenly around.



- (29) You may need to clean any excess silicone, and burn/cut any excess cloth.
- (30) Leave to dry for 24 hours (with hatch lids open) before use.





PROCEDURE COMPLETED