

Troubleshooting Co2 Solenoid and Expansion on Viper and Viper Elite

This document will help you determine and confirm what if a Co2 solenoid or an expansion tank is leaking causing the barrel to over pressurize.

Symptoms: Product leaking from the relief valve on the faceplate, possible voids in the barrel and or product dropping in the cup. Product leaking from the weep hole on the expansion tank regulator indicates that an expansion tank is leaking.

- 1) Turn the barrel in question off. Highlight the barrel on the status screen and press off.
- 2) Place the barrel in question in manual defrost. Highlight the barrel on the status screen and press defrost.
- 3) Purge the product from the barrel.
 - a. Press Menu
 - b. Press MAINT
 - c. Highlight Barrel Maint and press GO.
 - d. Highlight the barrel to purge and press purge. You will hear the Co2 solenoid engage and the beater motor will engage.
 - e. Purge all product from the barrel.
 - f. Press STOP
- 4) Open the dispense nozzle to relieve any pressure in the barrel.
- 5) Wait 5 minutes
- 6) Open the dispense nozzle to see if the barrel has pressurized.

Note: you may hear a small amount of Co2 release, this is normal. If you have a large burst of Co2 expel from the dispense nozzle this indicates you have a leak. The following steps will help you determine and confirm if it is the Co2 solenoid or the expansion tank is leaking through.

- 7) Turn the remaining barrels off. Highlight each barrel and press OFF.
- 8) Dispense product in the remaining barrels to relieve pressure. You do not have to purge the entire barrel, dispense product until it stops coming out which indicates that the pressure is relieved.
- 9) Turn the expansion tank regulator to 0psi. This takes all Co2 off the expansion tank, takin it out of the system and removing it from the possibility of leaking Co2 into the barrel.
 - a. The expansion tank regulator is located on the right side of the unit for 2 and 3 barrel and on the left side for a 4 barrel.
 - b. You will hear Co2 leaving the regulator. This is normal.
- 10) Open the dispense nozzle on the barrel in question to relieve any pressure.
- 11) Wait 5 minutes
- 12) Open the dispense nozzle on the barrel in question
 - a. If you have a large burst of Co2 expel from the barrel this indicates that the Co2 solenoid is leaking through. Replace the Co2 solenoid assy for the barrel in question.
 - b. If you do not have any Co2 expel from the barrel this indicates that the expansion tank is leaking through. Replace the expansion tank for the barrel in question.
- 13) Make sure you set the expansion tank regulator to 30psi.
- 14) Once you have repaired / replaced the Co2 solenoid or replaced the expansion tank, follow the process to baseline the barrel.
- 15) Baseline the remaining barrels as well to ensure the Viper is running properly.