



The Deadlywind hAir 45 is a replacement 3-way valve with reduced surface areas and hysteresis overlap (results in a lighter and shorter trigger pull) for the Plant Eclipse EMEK and m170R style guns. The EMEK and m170R version share all the same components with the exception of the aluminum hAir 45 block, which is specific to fit each gun frame.

The hAir 45 utilizes a QEVA diaphragm to create a crisp firing event. The QEVA also creates the famous "farting" noise when degassing the gun. This is normal. All components are held in with O-ring friction and should be easily removable. At times, a few sharp downward-facing raps against a workbench edge to dislodge a component is required before removal.

Troubleshooting checklist:

1) Won't fire:

- Check trigger adjustment screws (if using an adjustable trigger). The hAir fire event tends to be earlier in the trigger pull, so relaxing the trigger adjustment screws is usually necessary to reset the trigger position.
- Stuck Fire pin. Gassing up the gun should pop out the Fire pin. In some cases during packaging, the Fire pin gets pushed too far into the Valve body and can get stuck in the #003 o-ring. To confirm if the Fire pin is stuck or not, remove the grip panels of the gun and gas it up. The Fire pin should be in contact with the nail-head of the gun's silver trigger rod. If there is a gap between them, remove the hAir from the gun and looking in from the bottom hole, you can usually see the thin tail of the Fire pin protruding into the small hole. Gently insert a small Allen wrench in from the bottom hole and dislodge the Fire Pin forward slightly and re-install.

2) Leaks at rest:

- QEV diaphragm is missing or jammed. Check, clean, lube, and re-install the QEV diaphragm ensuring it is pointing the correct direction (pointy end first) and seated centered in the bottom of the top bore.
- QEV Plug is missing or damaged. Check, clean, lube, and re-install the QEV plug. Ensure the lip face of the QEV plug (facing the QEV Diaphragm) is clean and free from any nicks or gouges.
- 1x15 mm o-ring is damaged or missing. Check, clean, lube, and re-install the 1x15 mm o-ring.
- Fire pin is damaged. NOTE-- The very tip of the Fire pin is thin and usually bent – THIS IS NORMAL. The short thin tip on the Fire pin is a remnant of manufacturing and does not touch or seal into anything in the Valve body. Check, clean, lube, and re-install the Fire pin. It should simply pull out the front of the Valve body.
- Missing front plug. On some versions of the hAir block, there is a plugged port hole on the front face of the Hair block above the Valve body. On these versions, there should be either a silver screw head or a green rubber plug present. Contact Deadlywind If you have leaking issues AND have an open hole in the aluminum hAir block above the Valve body. (later versions have eliminated the external port hole and plug entirely)
- Leaking top gasket. Check, clean, lube, and re-install the top oval gasket between the hAir block and the bottom of the gun body.

3) Leaks when holding the trigger in:

- #003 o-ring is damaged or missing. Check, clean, lube, and re-install the #003 Oring.
- Fire pin is damaged. NOTE-- The very tip of the Fire pin is thin and usually bent – THIS IS NORMAL. The short thin tip on the Fire pin is a remnant of manufacturing and does not touch or seal into anything in the Valve body. Check, clean, lube, and re-install the Fire pin. It should simply pull out the front of the Valve body.
- Leaking top gasket. Check, clean, lube, and re-install the top oval gasket between the hAir block and the bottom of the gun body.