

Q&A

VIQC 2022-2023: Slapshot

Welcome to the official VEX IQ Competition Question & Answer system, where all registered teams have the opportunity to ask for official rules interpretations and clarifications. This Q&A system is the only source for official VIQC Slapshot rules clarifications, and the clarifications made here from the Game Design Committee (GDC) are considered as official and binding as the written [Game Manual](#) itself.

Please review the [Q&A Usage Guidelines](#) before posting. This system is only intended for specific VIQC Slapshot rules questions.

- For event, registration, or other competition support questions, please contact your [REC Foundation Manager](#).
- For VEX technical support, contact support@vex.com or sales@vex.com.
- For game questions, suggestions, or concerns outside of specific and official rules questions, contact GDC@vex.com

Will there be a recommended starting position for the Purple Dispenser ejection arm??

The ejection arm position could impact the speed at which a robot can empty the Purple Dispenser.

For example if the ejection arm is horizontal it takes over one complete rotation of the Octagonal Handle before the ejection arm contacts a disk; and a further 1.5 rotations to eject the disk.

More detail - in CAD renderings - are being sent to the GDC via email.

Mike Schlagenhauf and John Yamashita Team 20762

Answered by committee

Yes. This will be clarified in the June 28th Game Manual Update.

Will the GDC allow Event Partners to substitute a Steel Shaft for failed plastic shafts in the Purple Dispenser

The compound gear train in the Purple Dispenser can apply significant torque to the plastic shaft in the gear train; especially when a disk jams in the dispenser. The likelihood of over-torquing the plastic shaft to failure is high.

Further, team members also have a kid-like desire to fidget spin the Purple Dispenser.

One solution is to replace the failed shaft with a steel shaft. Will the GDC allow the substitution?

Answered by committee

When assembled correctly, no shafts in the purple Dispenser should fail, regardless of how much use it sees. A recent Game Manual Update included an addition to Appendix A, which explains this situation in further detail:

The arm can jam if either the standoff above the ratchet pawl or the pawls on the end of the arms are placed incorrectly. Checking your build against steps 30-31 and 36-37 of the VIQC Slapshot Build Instructions might help identify the problem.

The plastic shaft was designed as an intended failure point to protect other parts of the dispenser that are not as noticeable. A steel shaft will not fail as intended, and unseen damage can lead to intermittent issues such as the Dispenser skipping or taking more rotations to dispense.

For this reason, intentionally assembling the purple Dispenser with a metal shaft for the ratchet gear is not an acceptable solution, as it may cause further unseen damage later on.

If an Event Partner finds themselves in a situation where they are at an event with a failed plastic shaft, and do not have any other plastic shafts available to replace it with, then a metal shaft would be an acceptable temporary replacement **if and only if** care has been taken to ensure that the underlying assembly has been fixed.