

vDrive^{QL} Firmware Update 004 - MGG

Before updating the firmware, check the existing version by executing the toolkit VINFO command. If the existing version of VDRV is 2.07 or lower, FSYS is 2.03 or lower, or TKQL is 1.08 or lower, then this update applies.

After the update VINFO will show:

```
VDRV v2.08_MGG  
FSYS v2.03  
TKQL v1.09
```

To update the firmware please refer to the latest version of the vDrive^{QL} user manual.

Patch Notes 12/12/20

- This firmware provides format support for the MGG ROM. Unfortunately, the MGG ROM has some changes to the Microdrive driver which the vDrive^{QL} cannot detect and will fail to format new images. Please note that format will fail for other operating system ROMs. To reinstate format support for these ROMs just update with the appropriate firmware build.
- Format would fail for some hardware configurations if executed as the first command after boot due to the first write being missed. This has been fixed.
- The root cause of the 'vDrive not responding' error occurring when installing the toolkit has been found to be due to a factory modification for the internal Microdrives being either missing or incorrectly implemented.

An early factory mod to slow down the Microdrive motor start had the unfortunate side effect of increasing the rise time of the write signal on the Microdrive bus meaning several sectors were lost during format. A diode was later added to correct this but was not done to all Microdrives and in some cases was placed the wrong way around (meaning it had no effect).

The vDrive^{QL} depends upon the write signal for communication with the toolkit and therefore the toolkit would fail to install if the factory modification was missing or incorrectly implemented.

The troubleshooting section in the user manual has been updated to include resolution for this error.