



Technical Note

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Family: DVC

Models Affected: DVC5, DVC7 and DVC10

Description: DVC controller goes into programming mode when powered on.

Background:

The DVC controller is in programming mode when its MS and NS LEDs blink green in an alternating pattern. When the controller is in normal execution mode the MS and NS LEDs will be solid green, red or not illuminated.

The DVC controller normally goes into programming mode when the Program Loader Monitor running on your PC is active, the serial RS232 cable is connected between the PC and the DVC controller, you are attempting to load an application and the DVC is powered cycled. The DVC, when it is powered cycled looks at the RS232 lines (RTS specifically) to decide if it should go into programming or normal execution mode. On some PCs depending on the installed RS232 driver and the last program to access the serial port the RTS line can be left in a state where the DVC believes it should go into Programming mode even though the Program Loader Monitor is not running.

Solution:

To insure that this does not happen, disconnect the serial cable from the PC or the DVC controller and power cycle the DVC. Reconnect the cables, and operate as normal.



Module & Network Status (MS/NS)

Alternating Flashing Green – Device is being programmed (BIOS or Application Code).



DVC7

Module Status (MS) (R/G)

- Off – There is no power applied to the Module.
- On green – The module is operating in a normal condition.
- Flashing green – Device is in standby state, May need commissioning.
- Flashing red – Recoverable Fault.
- On red – Module has an unrecoverable fault.
- Flashing Red/Green – Device is in self-test.

Network Status (NS) (R/G)

- Off – There is no J1939 device (or other DVC5) in the project.
- Flashing green – J1939 device in project but communication has not been established.
- On green – J1939 communication has been established.
- Flashing red – The J1939 communication is in a timed-out state.
- On red – The device has detected an error that has rendered it incapable of communicating on the network.