

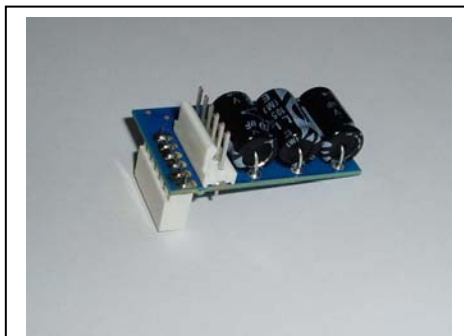
Select/Easy Doser Motor Management (KickStart)

The Problem – There has been an on-going (but fairly rare) problem with the motor in the Select/Easy doser. The motor can stop and refuse to start again unless the rotor is turned by hand. In this situation the doser is likely to show a “High Flow” message.

The Cause – The precise cause of the problem is still not known (still being investigated). We do know that there can be an extremely small area on the motor commutator with extremely high resistance in some motors. This can happen after a period of use. If the motor brush is positioned over this spot with high resistance, the 12V connected to the motor at the start of the 5 second dosing period will not be sufficient to start the motor. With the motor stopped, the computer chip will interpret this as not being able to keep up with a high water flow and so shows the “High Flow” message.

The Solution – Until we finally determine the cause of the problem, we have developed a KickStart board that can be easily fitted to the doser either by Distributors or end users. This small board provides an additional burst of energy to ensure that the motor starts whether there are areas of high resistance or not. These boards will be supplied to Distributors. If there are future problems with existing dosers that are in use, the KickStart board can be posted to the user. This will be more efficient than sending a new motor.

The “KickStart effect” will be incorporated into a new doser PCB as soon as the tooling is complete. It will then be a part of all new dosers.



KickStart Board



KickStart Board Fitted

Fitting –

1. Disconnect the 12V DC power supply.
2. Pull off the white plug on the motor wiring loom from the PCB pins.
3. The KickStart board is pressed onto the PCB pins.
4. The white plug is pressed onto the pins on the KickStart board.

DW

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