



by **ENOVATION** CONTROLS

PowerCore® MPC-20-R2 Software Release

Enovation Controls continues to roll out improvements to software for the Murphy PowerCore MPC-20-R2 controller. The latest software release (**Application 2.9.10042; Configuration 2.9.23047; Config # 2.9.20025**) provides an enhanced user experience with several new features. Enovation Controls will continue to provide enhancements to the controller's software periodically throughout its life cycle. To take advantage of the new features in this update on previously purchased units, please download the latest release of PowerVision for Controllers configuration tool (**2.9.23047 or later version**) and load the new template firmware into your current controller. This may require additional Murphy equipment such as the MPC-20 USB programming harness or an ECOM CAN communication dongle, which are available for purchase for programming purposes.



This software update provides new features including:

- **Engine Updates:**
 - **Volvo**
 - Squashed Volvo engine cranking bug when ECU does not send F004 message over J1939. Now allows cranking message to be sent when F004 message is not present by Engine ECU on the CANbus.
 - **Kubota Gaseous**
 - Squashed a bug when Kubota Gaseous was selected in engine manufacturer that affected throttling of engine.
- **Warning/Shutdown Logic Update:**
 - Discharge Pressure: added logic to not look at “Low Discharge Pressure Shutdown” during cooldown state. This allows the engine to throttle down past the Low Discharge Shutdown setpoint when throttling down during the cooldown state.
 - Lost Pressure Fault: added logic for a new fault “Lost Pressure Transducer” when the controller auto throttle type is set to pressure transducer. This corrects the issue of a lost pressure sensor and the controller observes the pressure drop to 0 which in turn increases the engine RPM to its max level to build pressure. This fault will now stop the engine from being throttled to max RPM if losing the pressure transducer signal when set to Auto throttle using pressure.

- **J1939 Shutdowns:**
 - Bug squashed from version 2.9.20024 for ECU Only selection. This selection will allow controller shutdowns for internal faults when ECU Only is selected for J1939 Shutdowns.

- **PowerCore Application Update**
 - Version 2.9.10042: Updated application to improve auto contrast adjustment throughout the controller's temperature range.

How to Purchase:

Part Number	Description
40-70-0504	PowerCore MPC-20-R2 Controller
40-70-0499	ML2000-R2 Controller Panel
40-70-0500	ML2000-4X-R2 Controller Panel
40-70-0501	ML2000-FP-R2 Controller Panel

Literature:

- [Webpage](#)
 - [MPC-20](#)
 - [ML2000](#)

- [Support Site](#)
 - [MPC-20](#)
 - [ML2000](#)

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