



Release Notes 1.03.01

9M23-9426-A001 | F



1. Revision History

VERSION	DATE	NOTES
A	2024-05-29	Version 1.00.00 Initial Release
B	2024-03-03	Version 1.01.00 Bootloader, PIN entry, Improved Mechanical support
C	2027-07-16	Version 1.01.01 Engine hours hotfix
D	2024-08-13	Version 1.02.00 Adjustable Engine Parameters, Configurable Gauge Pages/Dashboards, Current Panel State Widget, Menu Transducer Scaling Fix
D1	2024-09-24	Version 1.02.01 Fix RPM Increment Decrement
E	2024-12-06	Version 1.03.00 Thompson Actuator, CAN Trace, RTC Scheduler, DynaGen™ Mimic
F	2025-01-10	Version 1.03.01 4-20mA transducer fixed, mechanical engine fixes

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3. Introduction

This document describes the new features and changes available with each released version of controller firmware. This document describes changes to the following products:

- DynaGen™ 200 Controller Firmware
- CP500 Controller Firmware

4. Controller Firmware 1.03.01

Part Number	004-05023
Part Description	Firmware, Application, Version 1.03.00
Filename	004-05023.hex
Product Application	CP500, DynaGen™ 200

4.1. New Features

- In the controller menu transducer units change based on selected signal source
- Added support for minimum crank time

4.2. Improvements

- General improvements to mechanical engine handling
 - Preheat Output turns on if Preheat input signal is detected
 - Pressing Enter to wake up the controller puts the controller in Auto mode, instead of Manual
 - After shutdown the controller returns to Auto mode
 - Controller detects loss of input frequency faster
 - ECU Power/Fuel output signal is handled differently when configured for mechanical engines to keep fuel output off while in the Shutdown state
- Double clicking stop when running no longer bypasses waiting for engine to stop
- Better 4-20mA scaling

4.3. Bug Fixes

- Fixed the 4-20mA transducer input sense configuration.
- Actuator calibration routine will cancel if the actuator is not communicating.
- Fixed a rounding error if adjusting Mechanical engine Tooth count.

5. Controller Firmware 1.03.00

Part Number	004-05023
Part Description	Firmware, Application, Version 1.03.00
Filename	004-05023.hex
Product Application	CP500, DynaGen™ 200

5.1. New Features

- Thompson Actuator control using the default actuator address.
- CAN Trace is logged directly to the USB Flash drive.

- RTC Scheduler
- New gauge showing input frequency.
- Basic DynaGen™ Remote control of TG350, TG410, TE350, TE410 and 600
- Fuel Level read from J1939 DD1 PGN by default.

5.2. Improvements

- Easier access PIN code entry
- Status widget with clock shown by default.
- More menu items show text selection instead of numerical values.

5.3. Bug Fixes

- Custom Banner messages no longer show extra text.
- Fixed Importing and Exporting Custom Events
- Fixed custom event behavior after controller reset.

6. Controller Firmware 1.02.01

New Part Number	004-05023
New Part Description	Firmware, Application, Version 1.02.01
Filename	004-05023.hex
Product Application	CP500, DynaGen™ 200

6.1. New Features

- None

6.2. Improvements

- None

6.3. Bug Fixes

- Fixed controller speed increment and speed decrement behavior.
- RPM External Up/Down settings now have an effect.

7. Controller Firmware 1.02.00

New Part Number	004-05023
New Part Description	Firmware, Application, Version 1.02.00
Filename	004-05023.hex
Product Application	CP500, DynaGen™ 200

7.1. New Features

- Added ability to configure warnings and shutdown faults through the display menus.
- Added the ability to turn off specific gauge pages and dashboards.
- Added a widget on dashboards that reports the current panel state.

7.2. Improvements

- Updated drop-down list icons.
- Added a button to leave the numeric edit screen without changing the value.

7.3. Bug Fixes

- Added support for floating point numbers required for the transducer setup and values.
- Added support for handling negative numbers in the menus.
- Added a 5-second timeout on engine stopping.
- Corrected a divide by zero case if transducer setup values were equal.
- Corrected an issue where Restore Defaults was not triggering a save to the EEPROM.

8. Controller Firmware 1.01.01

New Part Number	004-05023
New Part Description	Firmware, Application, Version 1.01.01
Filename	004-05023.hex
Product Application	CP500, DynaGen™ 200

8.1. Improvements

- Add Bootloader versions to the About page.

8.2. Bug Fixes

- Hotfix for Mechanical Engine Hours menu edit widget.

9. Controller Firmware V1.00.00

New Part Number	004-05010
New Part Description	Firmware, Application, Version 1.01.00
Filename	004-05010.hex
Product Application	CP500, DynaGen™ 200

9.1. Special Note

This is the first release, and it includes both controller bootloaders. Existing controllers on v1.00.00 do not have a bootloader and must be updated via the Customizer's "Recovery Update" procedure.

This is a one-time requirement; future updates can be done via USB Flash Drive updates.

9.2. New Features

- Recovery + USB Bootloader
 - Able to load FW from menus: System Setup -> Configurations & Updates -> Load Firmware
 - Able to force enter bootloader on power up by holding UP + ENTER. By default, the bootloader will look for a file called "recovery.hex" to perform a firmware update.
 - Force enter DFU on power up by holding DOWN + ENTER.
 - Skip bootloader checks and run the application directly by holding OFF + ENTER on power up.
- Menu Access Level (PIN) support
- MODBUS RTU

9.3. Other Firmware Changes

- Fix issues with product identification when using Customizer.
- Fix issues with config import/export.
- Improved Mechanical Engine operation.
- Updated Gauge defaults

9.4. Bootloader

BL Version 1.0.1 – Initial release bundled in 004-05010.hex.

9.5. Recovery Bootloader

RBL Version 1.1.0 – Initial release bundled in 004-05010.hex.

Due to continuous product improvement, the information provided in this document is subject to change without notice.

Tech Support

Contact a technical support specialist at 877.399.2937 for 24-hour support. Or visit cattron.com/contact for additional contact details.

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