

# Technical Bulletin

## Mercury 310 Controller Firmware Release: H7.05

**SUBJECT:** New Mercury 310 Controller Firmware Release H7.05

**DATE:** 01/2026

**OPERATORS:** All operators using the Mercury 310 Controller

**FIELD PROGRAMMING DEVICE:** USB flash drive

**FILENAME:** Mercury310update\_H7\_05build3\_11\_06\_2025.bin

**IMPACT:** New fix for Juno operators.

### IMPORTANT NOTICE!

A factory reset is performed automatically on startup after updating the firmware from older firmware!

**Note:**

- After a firmware update, normal operator provisioning will have to be performed. This includes re-learning limits and other settings.
- Production release and manual updates pending.

### CHANGES/ENHANCEMENTS SINCE H7.04:

- Ability to adjust the slowdown points before or after learning the limits.
  - Previously, slowdown points could only be adjusted AFTER limit learning process.
  - Default slowdown points for Juno are 85% / 15%.
  - Slowdown points are only reset during a factory reset.
- Updated maximum run time:
  - Learn mode run time timeout set to 2 minutes.
  - Run time timeout when position is unknown is set to 2 minutes.
  - Run time timeout when position is known is set to 1 minute for swing gates and 1min 30s for slide gates (Juno).
- Updated default deceleration points for Juno to prevent the gate from running past the limit.

## Mercury 310 Controller Firmware Release: H7.05

### KNOWN ISSUES:

- USB Drive causes odd and unpredictable gate behavior.
  - Odd and unpredictable behavior includes the gate running past the limit, and/or starting to open or close without a user input.
  - If odd gate behavior is observed while a USB drive is installed to gather logging data, then remove the USB drive immediately. A power cycle of the Mercury controller is recommended after removing the USB drive.
  - Use a different USB drive for firmware upgrades and data logging.

### UPGRADE INSTRUCTIONS:

- Place the firmware upgrade file on a USB drive (FAT file system).
  - If the firmware upgrade file is within a .zip file, then extract the firmware upgrade file (binary file format .bin) and copy it to the USB drive.
  - Do not place the firmware upgrade file in a folder. It must be on the root of the USB drive.
- On the Mercury 310 controller, press and hold the firmware upgrade button (located next to the USB port) until “bL” is displayed to enter the bootloader.
- Insert the USB drive containing the firmware upgrade file.
- The upgrade should be finished within 5 seconds and will automatically reset and show the new firmware version on the display during startup.
  - It is recommended to leave the USB drive inserted after upgrading to enable data logging. Logs are stored on the USB drive and can provide valuable information for troubleshooting at installation sites.

**Note:** The USB drive can be safely removed when the USB LED is OFF.