# RELEASE NOTES

## Mercury 310 Firmware Release

## Version H7.04

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| Release Date: | 03-06-2025 (March 6, 2025) |
| File names: | USB file for field upgrades:  Mercury310update\_H7\_04.bin |
| Field Programming Device: | USB Disk |

### New Features

* Motor detection codes.
  + Displayed during learning as the gate moves to the first limit.
  + Displayed when the UI know is turned to “LRN MOTOR 1” or “LRN MOTOR 2” if the associated motor is learned. The display will no longer show “L1” or “L2” solid when the associated motor is learned as in previous releases.
  + Detection codes:
    - d1 – 816
    - d2 – Titan
    - d3 – Vanguard
    - d4 – Juno
* Improved limit LED indication for Vanguard.
  + Limit LED flashes when the 1st edge of the limit sensor is detected.
  + Limit LED solid when the gate has moved to the middle of the limit sensor.
* LED Encoder indication
  + The right decimal point of the display is used to indicate encoder activity.

### Changes/Enhancements

* Improved IES handling during acceleration for linear actuators.
* Updated motor detection thresholds for Vanguard and Titan for more reliable Vanguard motor detection during learning.
* Updated error code 7 (Er 07 - encoder not detected) to be more broadly used and not limited to a learning error. This error will be displayed for a short time if the encoder is not detected within 3s of a gate open/close cycle.

### Known Issues

* USB Drive causes odd and unpredictable gate behavior.
  + Odd and unpredictable behavior includes the gate running past the limit, the gate starting to open/close without a user input, and so forth.
  + 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.