

# Technical Bulletin



August 20, 2020

**PRODUCT NAME: HERCULES IV (now HERCULES V) AND HERCULES HC 2.0**

**WELDON PART NUMBERS:**

**6000-0000-05 REPLACES 6000-0000-04 & 6000-0001-04**

**6060-2000-00 REPLACES 6060-0000-00 & 6060-0000-10**



Hercules HC

Our longstanding Hercules product line has had some improvements. The Hercules IV will become Hercules V and the Hercules HC will be updated to Hercules HC 2.0. These upgraded models will retain the same packaging, connectors, and features, but will have some added features to improve connectivity and performance. These updates include full backwards compatibility, upgraded processor architecture to ARM, improved connectivity, and forward integration for the next generation of V-MUX®.



Hercules V

## FEATURE UPDATES

**ARM PROCESSOR:** Both Hercules V and Hercules HC 2.0 will be upgraded to ARM Processor. Some of the benefits include:

- **Fault Detection:** Hercules V has current detection and monitoring to detect open or short circuit connections.
- **Faster:** Inclusion of dual processors to the product line allowing for expanded capability and faster operation
- **Improved Flash:** Variable Flash layout provides additional capabilities like the ability to reflash the processors and expanded Flash space.

**FET UPDATE:** Both Hercules V and Hercules HC 2.0 will get new Field Effect Transistors. In the case of the Hercules V this is allowing for current detection and proper detection of short and open circuits. In the case of the Hercules HC 2.0 this will allow us to go back to a single part number for both 12v and 12v/24v vehicles.

### EXPANDED CAPABILITIES:

**Hercules V:** Along with the addition of current limiting capability the Hercules V will be able to communicate with our Ultraview™ displays without having to rely on another node. The Hercules V is ready for the next generation of V-MUX.

**Hercules HC 2.0:** With this change, the Hercules HC 2.0 is ready for the next generation of V-MUX.

## CHANGES TO SETUP

Due to the change in processor, both nodes will receive new Operating Systems.

**WARNING** only these software updates can be used with these new nodes or damage will occur:

V-MUX SystemDesigner® v1.9.3, V-MUX Diagnostics v1.4.5, and V-MUX Downloader v6.2.6.

## EFFECTIVITY

- Hercules V planned release for December 2020
- Hercules HC update planned release for December 2020