SERVICE BULLETIN



M1490 2020-09-28

M1490: DIGITAL TECHNICIAN II - UPDATES AND RELEASE NOTES

Purpose for Service Bulletin

This bulletin informs dealers that Harley-Davidson has made a software update to Digital Technician II (DT II).

DIGITAL TECHNICIAN II (PART NUMBER: HD-48650)

Markets Affected

All markets are affected.

New Software Update

Version 20.12

Release Date:

· Week of September 28, 2020

New Features:

- LiveWire Motor Control Module (MCM) reflash updated to 6.0.10.2
- LiveWire Vehicle Supervisory Controller (VSC) reflash updated to 7.4.28.2
- LiveWire On-Board Charger (OBC) reflash update to:

Control Board: 2.8.95.2Power Board: 6.18.64.2Charger: 0.92.158.2

Changes:

N/A

Previous Software Updates

Version 20.11

New Features:

- Hand control module reflash improvements for Push To Talk (PTT)/Cruise swap support.
- Repair Verification Code (RVC) framework Updates to Guided Diagnostics (GD), log test, and GD history screen (to be utilized at a future time).

Changes:

 Update minimum version for radio to allow reflash. Fixes Error 22 condition.

- Add DID0202 to Rechargeable Energy Storage System (RESS) warranty data feature.
- Removed several data items from Touring Electronic Control Module (ECM) which were reporting incorrectly.
- RESS snapshot pack voltage and inverter voltage calculations corrected.
- Fixed issue which caused OBC data items to not display on graph.
- Correction to VSC/MCM part numbers. Fixes case where module reflash may have been unavailable.
- LiveWire Vehicle status page update to notify user to connect battery tender.
- Text changes to clarify oil cooler fan descriptions on Diagnostic Trouble Codes (DTCs) and active test.
- Add rain mode active test and data item for Dakota instruments.

Version 20.10.7

New Features:

N/A

Changes:

- Radio Reflash Set GT Radio minimum version to 1.22.0.3 to resolve update issues.
- Radio Reflash Set GTS Radio minimum version to MY21.20.22.00 to resolve update issues.
- Correct availability of 21" wheel calibration for Anti-lock Braking System (ABS) module.

Version 20.10.6

New Features:

 Return OBC reflash to DCDC 4.2.12, DCFC 0.90.129, DSP 2.5.156. This corrects issues with OBC reflash released by DT II on April 29, 2020.

Changes:

N/A

NOTE

In the interest of preserving customer safety and satisfaction, always check for outstanding recalls whenever any motorcycle is brought into your dealership for either maintenance or service

ROUTING	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	WARRANTY PROCESS MANAGER	LEAD TECHNICIAN	TECHNICIAN NO. 1	TECHNICIAN NO. 2	TECHNICIAN NO. 3	RETURN THIS TO
INITIAL HERE									

Version 20.10.5

New Features:

- Support OBC reflash to all sub-components with a single step operation.
 - Use a lithium battery capable charger connected to the 12 V battery with a charge rate between 4–5 A when reflashing LiveWire modules to support the 12 V lithium battery.
- Diagnostic Trouble Code (DTC) snapshot data available for MCM, RESS and OBC modules.
- Modify GTS radios options to support Apple CarPlay® configuration.

Changes:

- · Add DTC description to VSC P1100000.
- Improved diagnostics for 2019 Touring DTC C1040.
- · Add text for VSC Snapshot fields.
- · Update Technical Support contact information.
- · Add 1 s delay to Telematic Control Unit (TCU) reflash.
- Apply Speedometer voltage fluctuation fix reflash to FLHTCUTG.
- Correct issue where 2020 FLHT was not offered Radio Reflash.

Version 20.9

New Features:

- · 2020 LiveWire
 - · Body Control Module (BCM) reflash offered.
 - · VSC update offered.
 - · MCM update offered.
 - · Snapshot support for VSC

Changes:

- · Update to Technical Support Contact information
 - DT II Global Tech support provided by Harley-Davidson starting March 01, 2020.
- · System Info MCM Component version fields corrected.
- System Info Instrument "Programming Date" field corrected

Version 20.8

New Features:

- · Vehicle status page implement.
 - · Show Status of TCU firmware/Notify if update required.
 - · Show if Tuned ECM is detected (U.S. Only).
 - · Show Current DTC count.
- 2020.5 Vehicle Support.
 - · Vehicle Identification Number (VIN) selections.
 - Reflash.
 - · Guided Diagnostics.

Changes:

- System Info TCU Add "Serial number" and "VIN" fields.
- System Info RESS Add "Programming Date" and "VIN" fields.
- Data Items OBC Correct values displayed for "Pilot Charge Plug" field.
- Improvements to TECHLINK 3 (PART NUMBER: HD-48650-TL3) to make connection logic more robust.
- Expand Speedometer Voltage fluctuation reflash offering to Part No. 70900293A.
- Improvements to 2020 'Cloud Data' requests to make vehicle lookups more efficient.

Version 20.7

New Features:

2020 LiveWire – New OBC reflash offered, 2.5.156

Changes:

N/A

Version 20.7

New Features:

- · 2020 LiveWire RESS and OBC reflash offered.
- TCU Customization Update screens, text and DT II operation for improved usability.

Changes:

- New Uniform Resource Locator (URL) in use: https:// dtiidata.service-solutions.com
 - · Verify new URL address is accessible by DT II device.
- Expand Speedometer Voltage fluctuation reflash offering to part no. 70900293A.
- Extend 2020 vehicle Cloud Data connection attempts from 30 s to 60 s.

Version 20.6

New Features:

N/A

Changes:

 Updated 2019 and 2020 Trike ABS software for recall 0175. Refer to Bulletin M1506.

Version 20.5

New Features:

- Drive TCU Customization Vehicle setup availability based on dealer location.
- Warranty report for RESS claims now available within Motorcycle Condition Report.
- 2019 and later Touring: Speedometer reflash to address false setting of DTC U0423.
- 2019 and later Touring: Vehicle Set up to configure "Instrument Traction Control Telltale".
- 2019 and later Trike: BCM reflash to address false setting of DTC B2285.

 2014 – 2016 Touring: Speedometer reflash to correct Voltmeter fluctuation.

Changes:

- Adjust diagnostic flow for Guided Diagnostics for DTC P1505 for 2019 and later Softail® models.
- Modify text on BCM Customization for sidecar setting for clarity.
- Various improvements to LiveWire module data items and system info fields (RESS, BCM, VSC, Instrument).
- Enhancements to improve stability of DT II on 2020 vehicles.

Version 20.4

New Features:

- · Support for LiveWire.
 - Add Vehicle Identification Numbers (VINs) to vehicle selection screen.
 - · Add MCM haptic feedback vehicle setup.
 - Support vehicle in motorcycle condition report.
 - · Guided diagnostics.

Changes:

N/A

Version 20.3

New Features:

N/A

Changes:

· Update TCU reflash process for stability improvements.

Version 20.2

New Features:

N/A

Changes:

- Add text to TCU Customization, Telematics screen to instruct to confirm that TCU software is at latest version before starting test.
- Correct issue that prevented DT II from updating ECM (Part No. 41000724A).
- Correct issue that caused some 2020 Touring vehicles to falsely set DTC P0444.
- · Correct issue that blocked some 2020 vehicles VIN.

Version 20.1

New Features:

- Updated ECM Calibrations for 2020 Touring to address idle speed fluctuation.
- Provide data item and system info support for 2020 hand control modules.

Changes:

 Correct display issue with TCU items: server connection, server bootstrap, server registration, server activation and server persisted activation fields.

20.0

Added support for 2020 vehicles

- · VIN support
- Reflash
- · Guided diagnostics
- Reflex™ Defensive Rider Systems (RDRS) support
- 6-digit DTC display (where applicable)

Added support for TCU (Telemetry control unit)

- Reflash
- Vehicle setup
- System info
- Guided diagnostics

Added support for RDRS

- 2020 VINs require internet connection prior to reflash and some vehicle setups
- Modifies some DT II selections (Vehicle Setups and Reflash) based on build information of vehicle
- Status of vehicle build data (Pending/Complete/Failed) is displayed on vehicle selection screen for 2020 vehicles only

Added support for Trike (CVO)

Tire Pressure Monitoring System (TPMS)

Added support for new VCI – Techlink 3

- Install "Vehicle Communication Interface (VCI) Manager (H-D)" application (used for initial setup)
- · Modify Techlink selection screen in DT II
- Added Techlink 3 Quick Start Guide and user manual to DT II home screen
- Support for Controller Area Network (CAN) protocol vehicles. (Must be used for TCU module reflash)

Changes:

N/A

Required Dealer Action

Techlink

- The TECHLINK 3 (PART NUMBER: HD-48650-TL3) will support CAN protocol vehicles (6-pin Data Link Connector (DLC)) at launch. J-1850 protocol (4-pin DLC) support is planned for early 2020.
- Techlink 3 will not support Harley-Davidson Buell, Vereinigte DEUTA-OTA (VDO) and Magneti Marelli vehicles (4-pin DLC). Support for those vehicles is available via TECHLINK II (PART NUMBER: HD-48650-1).

Digital Technician™ II

 The Digital Technician II software version updates are automatic and occur while connected to the Internet.

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- If an internet connection is lost, the download continues from where it stopped.
- If the Digital Technician II software is open, the application prompts the user to exit before the install can continue.
- All Digital Technician II software updates are deployed automatically via the XMS agent software and require a minimum model year software version (example: Model Year 2020 = minimum version v20.0).

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