SERVICE BULLETIN

M1490 **2022-10-17**

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

NOTE

The TECHLINK 3 (PART NUMBER: HD-48650-TL3) supports Controller Area Network (CAN) and J-1850 protocol vehicles.

- *6-pin CAN vehicles are recommended to use Techlink 3 (TL-3)*
- *All 2021 (and later) vehicles must use TL-3 (connects to Red DLC on the vehicle)*
- *2020 (and later) LiveWire must use TL-3*
- *4-pin (J-1850) vehicles are recommended to use TL-3. This includes all Fuel Injected Harley-Davidson vehicles 2002 and later.*

TECHLINK 3 (PART NUMBER: HD-48650-TL3) will not support Buell, VDO and Magneti Marelli vehicles (4-pin DLC). Support for those vehicles is available via TECHLINK II (PART NUMBER: HD-48650-1).

Version 22.9

Release Date:

- Week of October 17th, 2022

New Features

2023 LiveWire One

- Additional support for the vehicle platform.

Connection step/status displayed for TechLink II **and** TL-3. **Expected behavior:**

- After power up, TL-3 will beep after boot sequence is completed.
- WiFi may experience up to 20 second delay while Microsft Windows identifies connection. Universal Serial Bus (USB) connection will be nearly instantaneous.
- (New) Dialogue box will provide status until connection is complete.

Updates to Screaming Eagle Legal calibrations

- 41001059E, 41001068D, 41001079D, 41001318A, 41001321A, 41001330A

Changes

2021 FLHC

- 35 Kilowatt (kW) Support

Vehicle Status

- New prompt to notify user if Vehicle Identification Number (VIN) is not present in Vehicle Supervisory Controller (VSC) module.

TechLink 3

- Updates to make vehicle connection more robust.

Enable Road Test operation on Electro Hydraulic Control Unit (EHCU) **modules when TL3 VDR version is 1.0.2.4 or later (to be released at later date).**

Modifications to improve TL3 connection.

Version 22.8

Release Date:

- Week of September 19th, 2022

New Features

2020 and Later Trike

- Trike Configuration Vehicle Setup to support retrofit of external rear brake switch.
- Support for switch input versus EHCU pressure input for rear brake light illumination.

2020 and Later LiveWire - VSC reflash to update to v7.4.31.2

- Improved cruise control fault tolerance
- Improved fault tolerance to ride mode errors from incorrect map requests

Changes

Guided Diagnostics

- Correct part number for Trike Anti-lock Braking System (ABS) Breakout Box (BOB).

2022 Brazil Vehicles

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									

- Correction to make Cloud Data connection more reliable.

2022 RH975

- Correction to vehicle lighting configuration settings performed by Body Control Module (BCM) Factory Reset procedure. Applies to all Non-USA, Non-California Region vehicles.

Version 22.7 (Update)

Release Date:

- Week of August 29th, 2022

New Features

2022 RH975

- Hand Control Module (HCM) - Reflash – Addresses unresponsive and loss of communication.

Changes

Guided Diagnostics – Correct part number for Trike ABS BOB.

Version 22.7

Release Date:

- Week of August 15th, 2022

New Features

2021 and 2022 Touring and Trike

- Parts and Accessories (P&A) Legal Electronic Control Module (ECM) calibrations offered for vehicles in: United States, Canada, Australia

Changes

Correction for Touring, where reflash selections may have been missing

Version 22.6

Release Date:

- Week of August 01, 2022

New Features

2021 and 2022 Revolution® Max:

- Updated ECM calibrations. This update is to address DTC P000000 setting and putting the bike into the fast idle position (4,000 RPM). Also the update will address P227900 Intake air leak being set inadvertently.
- Added support to RH1250S and RA1250/S that allows recovery of failed HCM reflash

2020 and Later Touring, Trike, Softail and Sportster:

- Updated BCM calibration to “YM”. This supports implementation of the rear brake switch to 2022 Touring and Trike

2022 Touring

- Updated ECM calibration for both ABS and non-ABS equipped vehicles

Changes:

Vehicle Setup:

- Tire Pressure Monitoring System (TPMS) Setup Screen – improved usability. Now shows current tire selection after updating vehicle.

Version 22.5.3

Release Date:

- Week of July 18th, 2022

Changes

Revolution® Max calibrations updated:

- ECM Software correction. Reflash is available for this module even though Digital Technician II may not show an update in the expected process.

Version 22.5

Release Date:

- Week of June 27, 2022

New Features

Revolution® Max calibrations updated:

- Right Hand Control Module (RHCM)
- Ultron BCM
- ECM

2020 LiveWire

- Onboard Charger (OBC) calibration updated

RH975

- Added support for TPMS tire size selections

Changes:

Pan America - Vehicle Setup - Suspension Calibration

- Improved instructions
- Inductance values displayed at completion of setup
- Communication timing parameters adjusted for more robust process

Parking Brake Telltale Vehicle setup, now offers ability to disable.

Update to Safety and Product Campaign to improve page loading.

Version 22.4

Release Date:

- Week of May 23, 2022

Changes:

- Rev Max vehicles – Improve error handling for more robust connection to vehicle
- RA1250S – Modify HCM to prevent heated grip mismatch Diagnostic Trouble Code (DTC) from occurring post reflash
- Prevent selection of EHCU on Road Test, due to module which causes unfriendly behavior

Version 22.3

Release Date:

- Week of April 12, 2022

New Features:

Provide support for 2022 vehicles: RH975, FXLRST, LW1

RH975

- Module Reflash: Instrument Module (IM), ECM, Left Hand Control Module (LHCM), RHCM, BCM, EHCU
- Guided Diagnostics
- Active Test
- Vehicle Setup

LW1

- Module Reflash: OBC, Motor Control Module (MCM), VSC, Rechargeable Energy Storage System (RESS), ABS, BCM
- Guided Diagnostics
- Active Tests
- Vehicle Setup

2022-2022 Touring

- Updated EHCU firmware to improve Vehicle Hold Control (VHC) operation

2021-2022 RA/RH 1250 Models

- Updated BCM reflash offerings
- Updated LHCM and RHCM reflash offerings

Changes:

- Add support for LHCM (Part No. 71500610 and 71500614)
- 2022 FXLRST - Modify ECM reflash
- Corrections to ECM calibration text for all model years to correct Oil versus Twin cooled variants
- Corrections to Active Test – Fan Enable to properly identify 1 versus 2 fan vehicles
- Update Tech Support contact information

Version 22.2.2

Release Date:

- Week of March 24, 2022

New Features:

- Provide support for 2022 vehicle: FXLRST

Version 22.2

Release Date:

- Week of January 26, 2022

New Features:

Provide support for 2022 vehicles: FLHXSE, FLTRXSE, FLTRKSE, FLHTCUTGSE, FLTRXST, FLHXST

- VIN support
- Reflash
- System Information and Data Items
- Active Diagnostics
- Guided Diagnostics
- Diagnostic Trouble Codes (DTCs)
- Vehicle Setup

New Vehicle Setup to support Screamin' Eagle Quickshifter on 2022 RA1250 and RA1250S

Update radio reflash to support subwoofer selections on Harley-Davidson® Audio Powered by Rockford Fosgate equipped vehicles

Changes:

- Correct issue which may cause DT II crash when entering Vehicle Setup
- Update 2021 RH1250S (China region) ECM calibration to 41001140C
- Correct on screen text for 2021 RA1250S (China region) ECM for 41000918G calibration
- Correct Guided Diagnostics 2021 FLTRXS which had wrong pin outs for CAN lines

Version 22.1

Release Date:

- Week of January 12, 2022

Changes:

- Correction to 2021 RA1250S which caused ECM reflash to fail.
- Correction to 2020 Livewire which caused OBC reflash to fail.
- Correction to 2012 Touring Radio Reflash which caused DT II to crash when Harley-Davidson International (HDI) region code was selected.

Version 22.0

Release Date:

- Week of January 3, 2022

New Features:

Provide support for 2022 vehicles

- VIN support
- Reflash
- System Information and Data Items
- Active Diagnostics
- Guided Diagnostics
- DTCs

Changes:

- Updated Ultron security fob assignment instructions
- Update to Fluke Multimeter Digital Volt Ohm Meter (DVOM)digital drivers
- 2021 and Later: Revolution Max vehicles, Softail, Touring ECM. Correct data items and issues where Engine Coolant Temperature (ECT) or Engine Temperature (ET) data items may have been improperly displayed.

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).
- 2021 vehicles must use TECHLINK 3 (PART NUMBER: HD-48650-TL3) (connects to Red DLC on the vehicle).

Digital Technician™ II

- The Digital Technician II software version updates are automatic and occur while connected to the Internet.
- 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 2021 = minimum version v21.0).