

TESTER PRESENT

Specialist Automotive Solutions

The Ford ZF 6HP26 Toolkit

by Jack Leighton - Copyright 2025

README & DOCUMENTATION 31/07/2025

INTRODUCTION & PURPOSE

The Ford ZF 6HP26 Toolkit is designed for advanced diagnostics, flashing, and calibration of Ford ZF 6HP26 Transmission Control Modules. Intended for professional automotive technicians and advanced enthusiasts, it enables full firmware read/write, calibration management, and clutch/adaptation reset functionality.

Supported Vehicles:

- Ford BF Falcon (ZF 6HP26)
- Ford FG Falcon (ZF 6HP26)
- Ford FGII Falcon (ZF 6HP26)
- Ford FG-X Falcon (ZF 6HP26)
- Ford Territory (ZF 6HP26)

INSTALLATION

1. Run the "install.bat" batch file as Administrator.
2. Accept and read the Conditions of Use.
3. The batch file will:
 - Create Start Menu entries and Desktop shortcuts
 - Add the software to the Windows Defender exclusion list
4. Once complete, you will be prompted to start the software and open this README.
5. Provide your Unique ID to Tester Present to receive your Software License Key

You can re-run the batch file when you receive a software update; it will automatically override the old version.

SYSTEM REQUIREMENTS

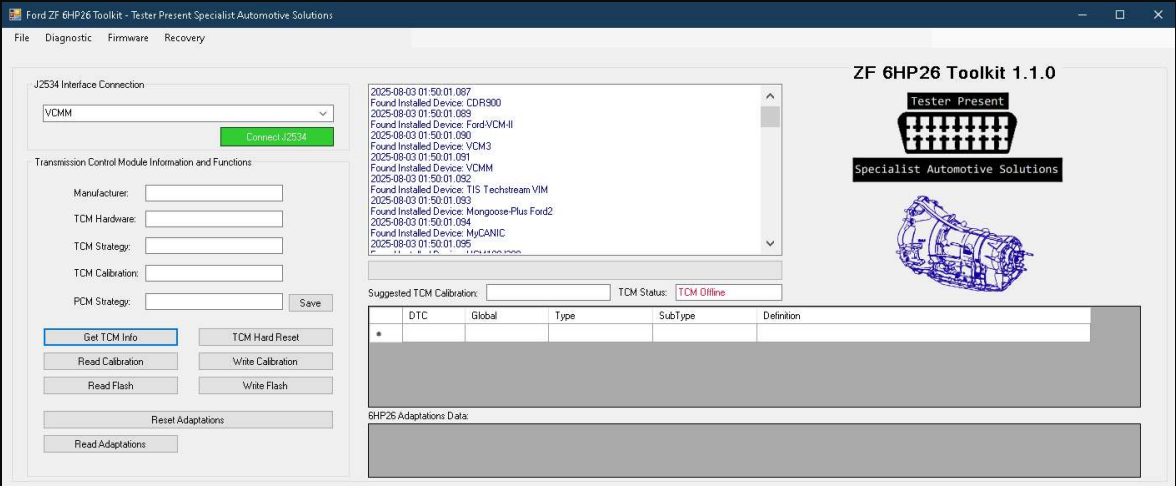
- Windows 7 / 10 / 11
- 4GB RAM minimum
- 20MB free disk space
- .NET Framework 4.8.1 (required)
- J2534 Pass-Thru device compatible with Ford vehicles (e.g., Mongoose Pro, OBDxPro FT, Tactrix)
- The application is a 32 bit application, but will run fine on x86 and x64 machines

SOFTWARE LICENSE

- License provided upon purchase
- Stored in Windows Registry for automatic detection
- Licenses are lifetime and non-transferable
- Contact support for additional machine activations or replacement keys
- Redistribution, reverse-engineering, or unauthorized resale is prohibited

SOFTWARE RELEASES / CHANGELOG

- Version 1.0 - Initial release
- Version 1.1 - Final Version 1 release



Version 2.0 - New UI, improved flashing stability and workflow for ease of use



DISCLAIMER & LIABILITY NOTICE

Use of this software is at your own risk. Tester Present Specialist Automotive Solutions and Jack Leighton are not responsible for damage to vehicles, ECUs, or data resulting from incorrect usage or hardware failure.
Always follow flashing best practices and ensure stable power supply during operations.

KNOWN ISSUES / LIMITATIONS

- J2534 devices require manual driver installation
 - Do not interrupt flashing; You risk bricking your TCM
 - Software is not compatible with ZF 6HP21 Transmissions found in the FG-X standard model Falcons
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FIRMWARE DATABASE

A database of flash and calibration files is available for use with the software.
The Auto-Suggestor automatically selects the best TCM Calibration for the current PCM Strategy.

Firmware Database URL:
<https://testerpresent.com.au/firmware/TCM>

ZF 6HP26 AND PCM/TCM PAIRING

TCM calibration must match the PCM strategy. In Ford vehicles with the ZF 6HP26, the PCM (Powertrain Control Module) and TCM (Transmission Control Module) share data for:

- Torque requests and limits.
- Engine speed/torque during shifts.
- Gear selection logic.
- Security handshakes (CAN messaging).
- Both modules store a Strategy ID/Calibration ID that needs to be compatible.

If the PCM and TCM strategies are mismatched:

- The PCM detects invalid or unexpected torque/gear commands.
 - The TCM detects invalid engine torque reduction messages.
 - CAN message handshakes fail.
 - An active fault code will be logged, stating that there is a software incompatibility
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BEST PRACTICES FOR FLASHING THE TCM

- Keep vehicle battery on charge for stable 12V supply
 - Plug laptop into charger to avoid power loss during flashing
 - TCM fluid temperature should be under 80°C
 - Read all software prompts carefully and follow them to the letter
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TCM RECOVERY

If flashing fails or the TCM is bricked due to power loss:

- Re-flash a full firmware file
 - Follow with the correct calibration file
 - Refer to the firmware database above
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SOFTWARE FUNCTIONALITY DESCRIPTIONS

Read Flash:

Reads entire TCM firmware (~20 mins)

Write Flash:

Writes entire TCM firmware (supports BF ↔ FG conversion)

Read Calibration:

Reads the calibration/tune to a 128kb binary file

Write Calibration:

Writes calibration/tune to TCM; must match firmware & PCM strategy

Read Fault Codes:

Displays active fault codes in TCM memory

Clear Fault Codes:

Clears active fault codes in TCM memory

Read Adaptations:

Displays clutch wear learnings and adaptation data

Reset Adaptations:

Resets Keep Alive Memory and clutch/adaptation learnings (required after transmission rebuild)

UNINSTALLER

An uninstall batch file is located in:

C:\Program Files (x86)\Tester Present\

Run as Administrator to remove the software completely.

TECHNICAL SUPPORT

Contact:
Jack Leighton
+61 434 645 485
bjakkaleighton@gmail.com or jakka351@outlook.com

Official Support Hours:
Weekdays: 5 PM - 9 PM
Weekends: 6 AM - 6 PM

Remote Support:
Ultraviewer required for remote access troubleshooting

Additional Services:
- Vehicle diagnostics support
- Module programming assistance

TERMS OF USE

By using the 6HP26 Toolkit ("the Software"), you agree to the following terms and conditions:

- 1. No Warranty**
The Software is provided "as is", without any warranty of any kind, express or implied. This includes, but is not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement.
- 2. Limitation of Liability**
Under no circumstances shall Jack Leighton, Tester Present Specialist Automotive Solutions, or any associated parties be held liable for any damages, including but not limited to:
-Damage to any vehicle control modules (ECU, TCM, PCM),
-Loss of data or configuration,
-Loss of vehicle functionality,
-Inoperability, downtime, or repair costs, Or any consequential, incidental, or indirect damages resulting from the use, misuse, or inability to use the Software.

Use of this Software is entirely at your own risk.
- 3. No Support Obligation**
The developer is under no obligation to provide ongoing support, updates, bug fixes, or enhancements.
- 4. Use at Your Own Risk**
Flashing and reprogramming a Transmission Control Module (TCM) carries inherent risks. By using this Software, you acknowledge that:
-You understand the risks involved,
-You accept full responsibility for the outcome,
-You have the appropriate knowledge and tools to perform such tasks safely.
- 5. License and Restrictions**
You are granted a non-exclusive, non-transferable license to use the Software for its intended purpose. You may not reverse engineer, decompile, disassemble, modify, or attempt to derive the source code of the Software.
You may not sublicense, rent, lease, or redistribute the Software without prior written consent from Tester Present Specialist Automotive Solutions.
- 6. Ownership**
All rights, title, and interest in and to the 6HP26 Toolkit remain the exclusive property of Jack Leighton and Tester Present Specialist Automotive Solutions.
- 7. Changes to Terms**
These Conditions of Use may be updated at any time without notice. It is your responsibility to review and remain

informed of any changes.

By installing or using the 6HP26 Toolkit, you acknowledge that you have read, understood, and agreed to be bound by these Conditions of Use.

UPDATES

Check for updates at:
<https://github.com/jakka351/ZF-6HP26>

To update:

- Contact Tester Present and you will be provided with a download link
- Download latest update
- Run "install.bat" as Administrator and follow the prompts

BUSINESS INFO

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