FORD PERFORMANCE

MUSTANG CHALLENGE

June 17, 2024

Technical Service Bulletin – 09

Mustang Dark Horse R Engine Calibration

Issue: A revised calibration has been released (2024DarkHorseR_V5) to address an engine speed limit that occurred for 120 seconds after each engine start up.

Action:

- Follow the procedure to update your PCM calibration

Procedure: Follow the flashing procedure from your Owner's Manual

Install ProCal Software on Computer
- Navigate your browser to https://performanceparts.ford.com/download/ and click on "ProCal 4 Installer Download (.zip)"
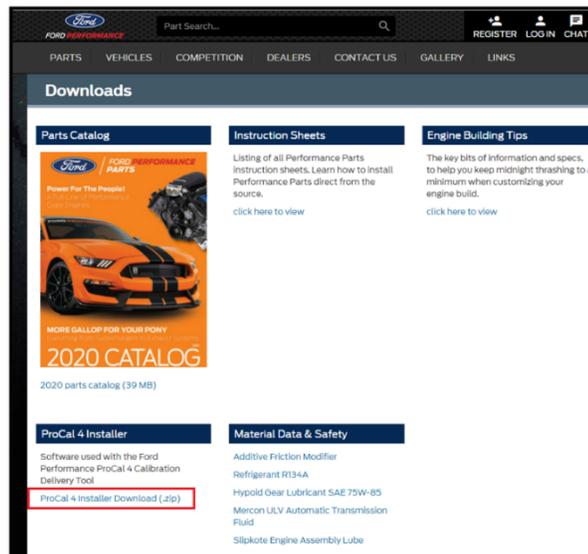
- Extract the files to your computer in a memorable location and run the "setup" file. Follow the prompts to install ProCal.

Updating ProCal Firmware

- Connect the ProCal tool with the USB cable provided and plug it into the computer.
- Open ProCal with the desktop icon (or from the start menu).

- If database version updates are available, select "Yes."
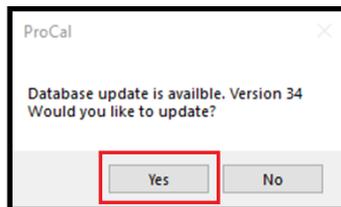
- If PID updates are available, select "Yes."
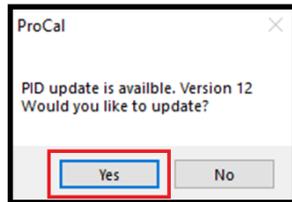
- When prompted Disconnect the USB cable and plug it back in to power cycle the ProCal. Press "O.K."
    - o   Note: The ProCal tool may take a minute to load.

- The ProCal Device Information should populate. The software version will have to be updated to at least a 2.204 version to flash the calibration to the Dark Horse PCM. If this is not a high enough version press the "Update" button to update the firmware. Follow the prompts to update.
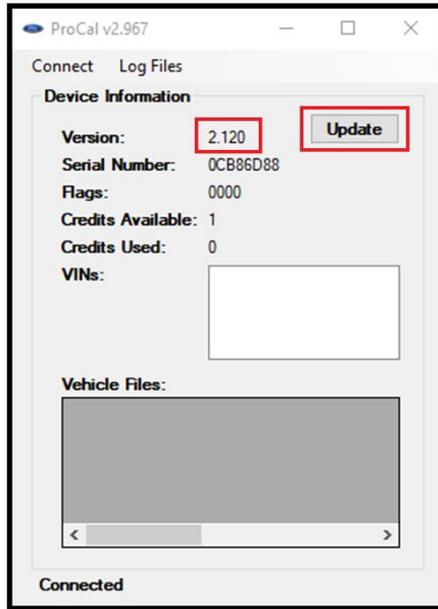
Flashing Calibration into the Vehicle

Note: The Dark Horse R requires a "Force Flash" be done when updating the PCM calibration. This does require a special procedure and unlock code.

- Plug the ProCal into the OBDII port of the vehicle.

- After the PROCAL loads, press and hold "ABOUT DEVICE" for 5 seconds.

- Enter the code "1, 2, 3, 4, 5, 6, 7, 0, 0, 0"

- Press "PROGRAMMING."

- Press and hold "CONTINUE" for 5 seconds.

- Press "CONTINUE."

- Select the file to flash. [2024DarkHorseR_V5] The picture is for illustrative purposes.

- When prompted, turn the ignition switch off, the flash is complete.