

## Version 3.044 07-02-2025

### V2 IMPORTER

- Work in progress – Imports trigger settings and sensors.

### CAN

- MQB platform support added.
- MQB platform added for Decode VW coding tool.

### ACCELERATION ENRICHMENT (ACC ENRICH)

- Acc. CLT correction range increased to 250%.
- Async. Acc. CLT correction table added.
- Async. enrichment CLT correction bug fixed.

### USER SWITCHES

- Flex Fuel input can be used as a switch input (switched to ground).

### BUZZER

- Buzzer can be activated by function.

### TACHOMETER (TACHO)

- Bug from version 3.044 fixed.

### OUTPUTS

- Electric water pump control added.
- Volvo EHPS (power steering) support added.

### FUNCTIONS

- Bitwise AND bug fixed.

### IDLE CONTROL

- Idle ON if MAP over bug fixed.

### GEAR SHIFT

- Min TPS to cut and 89iiiiuuuuuuuuMax TPS to blip parameters added.
- Gear shift can be initiated by gearshift sensor (Lever configuration).

### KNOCK CONTROL

- Per-gear gain added.

## **HELP**

- Added all log channel bitfields and enumerations to functions help.

## **DRIVE-BY-WIRE (DBW)**

- Boost target limit table added (allows boost control under minimum spring load).

## **KNOCK SENSORS**

- Restore rate previously always worked as 1° per cycle – Fixed.

## **TRIGGER WIZARD**

### **Supported engines:**

- BMW E36 M52B20, M54
- BMW E46 N42B18
- FORD FOCUS MK2 ST225 B5254
- LEXUS IS200 1G-FE
- NISSAN VQ35
- VW R32 BUB, BFH

## **Version 3.043 07-01-2025**

## **CUSTOM AXES**

- Added support for Baro.

## **FUEL PUMP**

- The fuel pump state now reflects the actual state of the pump (previously influenced by the "Invert output" option).
- Added a fuel pump test option to facilitate fuel system testing.

## **TACH OUTPUT**

- Added a second switchable RPM multiplier.

## **PRESSURE SENSORS**

- Added support for a nitrous sensor.
- Code size optimizations.

## **GENERAL**

- Code size optimizations.

## **CAN BUS**

- Improved support for Renault Clio 3RS (AC request, fuel consumption).
- Improved stream for Subaru GH.

## **HELP**

- Updated the ignition section.

- Updated the DSG section.

## Version 3.042 02-12-2024

### CANBUS

- **Polaris RZR 2024** support added.
- **DSG (Direct-Shift Gearbox)**
  - Torque reduction ignition and cut tables added (requires further testing).
  - DSG gearbox torque reduction request log channel added.

### IDLE

- Cycling idle **Cut RPM** and **Resume RPM** minimum values limit lowered (1000 and 500).
- Ramp-down delay functionality added.

### SHORT TERM TRIM

- Rich and Lean limits are now 2D tables as a function of airflow.

### KNOCK CONTROL

- Fuel/spark cut delay default value set to **250ms**.

### CUSTOM AXES

- Injectors' **Duty Cycle (DC)** range issue fixed.
- **Boost target** added as a channel for all custom axes.

### VVTI & VTEC

- Minimum engine oil temperature parameter added.

### DBW (Drive-by-Wire)

- **ITB (Individual Throttle Body) mode:**
  - When parameter **Disabled** and no RPM is enabled, the DC is set to **-100%** (no output current).

### LOGGING

- Min/Max flags visibility now follows global settings.

### CLIENT SOFTWARE

- **TPS default values** for VE table in **Alpha-N strategy** corrected (**0-100%** instead of **0-20%**).
- **Tree view items:**
  - Double-clicking now closes the existing frame on the desktop.
- **Autotune 3D window:**
  - Properly refreshes the **X-axis bins (MAP ↔ TPS)**.
- **Trigger Wizard:**
  - Nissan **350Z (VQ35)** trigger wizard added.

- Various bugs fixed.

## **Version 3.041 11-11-2024**

### **Trigger Types**

- Renix Triggers Added and Tested:
  - Renix 66-2-2-2 (Renault Alpine) and Renix 44-2-2 (Clio Williams) triggers have been implemented and validated on the bench.

### **Paddle Shift**

- Downshift Preload Time:
  - Minimum value reduced from 10 ms to 2 ms for improved responsiveness.

### **Launch Control (LC)**

- Prestage State Added:
  - A new prestage state is introduced for enhanced control.
- Bug Fix:
  - Issue with entering the exit state during target RPM changes has been resolved.

### **Boost Control**

- CO2 Control Strategy Added:
  - Implemented a new CO2-based control strategy for precise boost management.

### **Sensors**

- Wastegate Dome Pressure Sensor Added:
  - Support for wastegate dome pressure monitoring integrated.

### **DSG (Direct Shift Gearbox)**

- ESP Data Sharing:
  - ESP now sends data to the traction control strategy.
- Torque Reduction Handling:
  - Traction control torque reduction is applied to the CAN engine torque value.
- Logging Improvements:
  - Torque % and Actual Torque (Nm) channels now reflect corrected torque values.

### **Traction Control (TC)**

- ESP Torque Reduction Mode Added:
  - A new mode that incorporates ESP torque reduction into the strategy.

### **Drive-By-Wire (DBW)**

- Autocalibration Bug Fixed:

- Fixed TPS voltage direction issue in the DBW autocalibration tool.
- **Timeout Definition:**
  - CAN control timeout can now be defined for more flexible configurations.

#### **Client Software**

- **CSV Export:**
  - Resolved issues with CSV data export functionality.
- **Crash Fixes:**
  - Fixed crashes related to:
    - Opening windows using the keyboard.
    - Exiting the application when all desktop windows are closed.
- **Trigger Type Translation:**
  - Updated to immediately reflect the number of teeth when trigger types are translated.
- **Comment Editor:**
  - Enhanced for better usability.
- **Help Panel Resizing:**
  - Adjusting the help panel no longer restarts text display from the beginning.

#### **Log Groups**

- **Channel Sorting:**
  - All channels are now sorted across log groups for easier navigation and analysis.