

Release Notes

ECU Firmware

PC Link Software



Release Date: 06/09/2023

PC Link Version: 7.1.21

Firmware Version: G4X 6.24.370 and G5 7.1.370

New Features

- Added Support for new Voodoo Pro ECU.
- Added 'Direct Injection' and 'Direct/Port Injection' Injection Modes. Available on Voodoo Pro and specific plugin ECUs only.
- Added DI Fuel Pump Control Feature. Available on Voodoo Pro and specific plugin ECUs only.
- Added separate Primary and Secondary Injector Timing control. Available when using 'Direct/Port Injection' Injection Mode.
- Added Staged Injection 'Specified Flow Rate' Staging Mode. Allows the user to specify exact flow rate data for secondary injectors.
- Added DI Injector drive mode setting for inverting injector outputs to suit OE DI boxes. Available when using 'Direct Injection' or 'Direct/Port Injection' Injection Mode.
- Added Accel Enrichment 'Mass of Fuel' mode so that Accel fuel can be applied as a mass instead of as an injector Pulse Width.
- Added Ignition and Injection Drive reallocation functionality, this means which Injector or ignition drive is used for which cylinder can be rearranged.
- Added 'CAN File' functionality, password and ECU lockable CAN setups can now be used in addition to standard custom CAN.
- Added Internal GPS functionality for Voodoo Pro.
- Added Fuel Pressure Correction to Traditional
- Added new Fuel Runtimes.
- Added E-Throttle Feed Forward Tables.
- Added Nitrous Control Feature.
- Added Auto Up-Shift functionality to Paddle Gear Shift control.
- Added Fuel Cut capability to Anti-Lag.
- Added four more GP Outputs.
- Added Jeep Cherokee 2005 Trigger Mode.
- Added Dodge Hellcat Trigger Mode.
- Added Honda J32a2 Trigger Mode.
- Added Porsche 987 and 997 CAN Modes.
- Added Subaru 2015+ CAN Modes.

- Added Toyota GT86 CAN Mode.
- Added Fiat T-Jet CAN Mode.
- Added R56 Mini CAN Mode.
- Added CAN Keypad support for Blink 3500 MT and Racepad keypads.
- Added CAN Keypad support for Grayhill 12 and 15 button keypads.
- Added CAN Keypad Button Reset inputs.
- Added Labels to CAN Keypad Buttons.
- Added more CLL lockouts (Max ECT, Min TPS, Min MAP).
- Added CLL LTT Disable Input.
- Added two new Cruise Control Switch Types to suit European vehicles.
- Added a 2D Idle Ignition Target Table so the target Ignition angle value can be changed based on a selectable parameter.
- Added RPM and MAP Limit Active Table statuses.
- Added Boost Target Error runtime value.
- Added Current Gear Ratio runtime.
- Added EFI Tech Xw4 Lambda Box CAN channel mode.
- Added support for imperial units to some more pressure runtimes.
- Added heat-map support for tables when being compared to another tune.
- Added ECU data to Trigger Scope files.

Changes

- Increased MathBlocks from 20 to 30 characters.
- Increased Max Pressure Error value (MAP, Oil Pressure, GP Pressure etc).
- Changed Nissan 360 Opto sample map trigger offsets (NS13, NS15, NGTR, NGTT etc).
- Increased Max Speed Calibration value.
- Made PDM runtimes CAN writeable for User CAN.
- Made Dual Solenoid VVT (VANOS style) full bleed when in lockout and engine running.
- Made Cyclic idle limiter not be applied if ORPM limit value.
- Improved Suzuki K6A trigger sync.

Fixes

- Fixed Link 3 BAR map sensor Calibration – Increased 4.75V pressure from 290kPa to 300kPa, correct your tune as required.
- Fixed two table interpolate issues.
- Fixed Paddle Shift Reverse/Neutral Gear Barrel margin issue.
- Fixed CAN Analog 9–16 not working properly for several input selections.
- Fixed PDM CAN transmit issue for CAN Aux 9 to 16.
- Fixed Virtual Aux Test.

- Fixed Math Block, GP Output and Keypad parameter selections not working with some runtimes.
- Fixed Math Block 'mod' and 'pow' operators.
- Fixed ECU connection over RS232 Serial.
- Fixed IC Spray not working with statuses as the parameter.
- Fixed IC Spray not working with with no parameter selected.
- Fixed Timers getting out of sync with each other.
- Fixed Torque runtime Min & Max values so they can now be used on table axes.
- Fixed Air per cyl and fuel per cyl runtimes when engine off.
- Fixed Fuel per sec calculation.
- Fixed NB1 sample map Tacho output selection.
- Fixed WRX3-4 and ST185 sample map Speed input pullup settings.