## KiwiEFI K88 TEENSY3.5/3.6 BASED ECU USING SPEEDUINO FIRMWARE.

NOTE: THESE FILES ARE FOR A ECU USING THE TEENSY3.5/3.6 MCU MODULE
WHICH IS DISCONTINUED AND EXTREMELY DIFFICULT TO FIND.
DO NOT SPEND MONEY HAVING THIS BOARD MANUFACTURED UNTIL YOU
FIRST PURCHASE THE TEENSTY MODULE!

The KiwiEFI K88 is a high speed Teensy 3.5 powered Ecu which is 100% compatible in software configuration with the Speeduino Dropbear Ecu with a few important enhancements:

- A 56-pin connector which allows the simultaneous use of stepper idle control and all of the digital outputs, i.e. you don't lose 4x outputs if you require stepper idle control.
- Serial output to the Ecu connector which can be switched between TTL level or RS232 level
- Socket for a Crank/Cam VR conditioner allowing use of any brand of conditioner, not just the Max9926.
- Socket for a second VR conditioner on Digital Input 1 and 2 with switchable filtering.

K88 Features

8x high impedance injector drivers (with diagnostic indicator LEDs)
8x 5v/12v coil pre-drivers for use with igniters/smart coils (with diagnostic indicator LEDs)
2x low current outputs for Fuel Pump relay and Tach (with diagnostic indicator LEDs)..
4x medium current outputs for Boost, Idle1, Idle2, Fan relay.
2x high current outputs for VVT solenoids;
4x outputs dedicated to Stepper idle control (using optional DRV8825 board)
7x analog inputs plus internal Barometric Pressure Sensor and Battery Voltage sense inputs
4x digital inputs (2 with optional VR conditioner and filtering).
CAN transceiver with termination jumper option
Serial Data with switch selection of 3.3V-TTL or RS232 voltage levels (with TXD indicator LED)
Optional plug-in VR conditioner for Cam/Crank sensors,
Onboard Hall type Crank/Cam sensor conditioning and isolation diodes
Switch selectable filtering on Crank and Cam triggers,
Diagnostic LEDs for CRANK, CAM, DI1 and DI2 inputs.
Optional internal Map sensor or external sensor (we recommend external for faster response)
4x LED indicators for power supply voltages status
Internal datalogging to MicroSD card