



Thank you for purchasing a Megasquirt (MS) ECU from www.ExtraEFI.co.uk

Before doing anything please read this and the README files on the CD! It could save you time and hassle.

Please note that I have installed the ECU with a base configuration set up in it from information you've sent me about your engine, this is only there as a guide to get you up and running quicker. This setup is on the CD in case you lose it or delete it by accident. **The fuel VE table and spark tables are all an estimate for your setup and are in no way meant to be the finished map. The tables will need to be tuned.**

When transferring setups (msq files) from others or from the Internet or simply changing settings in Megatune please ensure that the Outputs are setup for your ECU before downloading it to your MS ECU.

To check this open Megatune (MT) open the msq file and when asked whether to burn click "N". Then go to *Code Config – Codebase and Output Functions*:

Single Spark output MS ECU (MSD or Distributor or EDIS module, TFI, etc)

LED17 (D14) = SparkA

LED18, LED19 and Output3/SparkD must NOT be a Spark output

Two Spark output MS ECU (4 cylinder wasted spark)

LED17 (D14) = SparkA

LED18 (D15) and Output3/SparkD must NOT be a Spark output

LED19 (D16) = SparkB

Three Spark output MS ECU (6 cylinder wasted spark)

LED17 (D14) = SparkA

LED18 (D15) = SparkC

LED19 (D16) = SparkB

Output3/SparkD must NOT be a Spark output

Four Spark output MS ECU (8 cylinder wasted spark)

LED17 (D14) = SparkA

LED18 (D15) = SparkC

LED19 (D16) = SparkB

Output3/SparkD = SparkD

Upgrade notes:

When burning a code (firmware) due to temperature sensors or upgrading to the ECU please remove the coils that are directly driven from the ECU! Also ensure that the *Codebase and Output Functions* are set as above before re-connecting the coils. Failure to do so could damage the Spark drivers inside the ECU.

Wiring notes:

Please ensure that any directly driven spark coils from the ECU have no power to them when the MS ECU is off. The best method to supply the +12V to the ignition coil is to come from the fuel pump, as this is only switched on by the MS ECU when the engine is turning and only when the MS is powered on.

The earth wire (4mm black cable in the loom) has to be connected to a good clean earth. The chassis or the battery is the best place if possible.

The screened trigger wire is earthed to the ECU in the loom, simply cut back the screening and don't connect it (insulate it), just use the 2 cores that are inside for your sensor.