



www.ExtraEFI.co.uk

Reset Problems

MS1-Extra and MS2-Extra

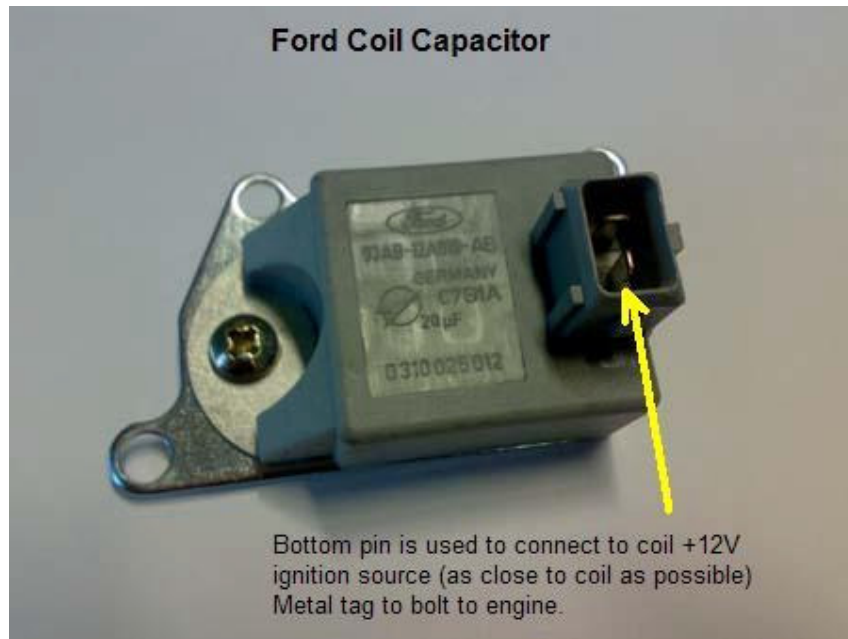
If you are suffering from the odd reset during cranking / running then this is highly likely to be caused by noise on the grounds getting back to the MS ECU. There are several things you can do to help to cut the noise getting through to the ECU during the wiring stage:

- i) The main earth for the ECU in the loom must be a very good connection onto the chassis or preferably the batteries -VE terminal. Most batteries have a large ground cable coming from the -VE terminal to the chassis, connect to the chassis point where this is connected if you can.
- ii) The sensor grounds, etc, should all be connected to the same point that the main ECU ground is connected to. The looms I supply have 2 green/yellow cables for connecting to the sensors as grounds, these are connected to the main ground in the loom so they all share the same point. Use these where possible for the sensor grounds. Alternatively wire the sensor grounds back to the same point that the main looms ground is connected.
- iii) Fit resistive spark plugs. These are usually marked with an "R" suffix on the plug. See your spark plug manufacturer's website for more details on resistive plugs. This is very important when running a coil pack directly from the ECU. Especially on 6 and 8 cylinder engines.
- iv) Fit a 20uF suppresser to each coil pack. These are available at scrap yards on Ford Zetecs, etc. When removing them get the plug and some of the lead that's attached as they are a special plug (1 lug at 90deg to the other) The suppressor needs to be bolted to the engine (ground) and wired as close to the coil pack as possible.



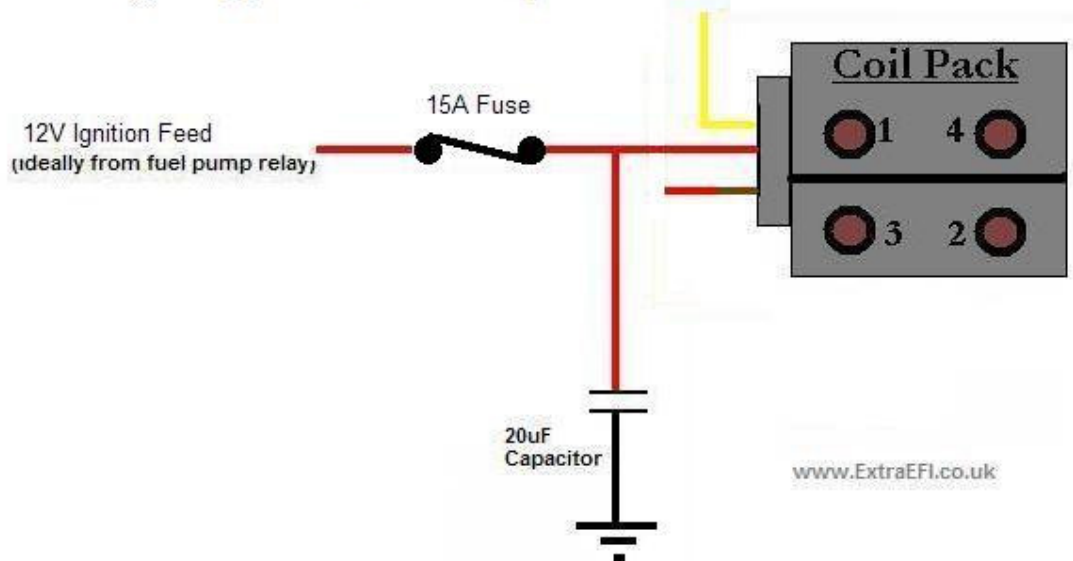
**20uF Capacitor as found on
the back of a Ford coil pack**

www.ExtraEFI.co.uk



The suppressor needs to be wired to the +12V ignition supply of each coil pack:

Fitting Suppressor to coil packs



v) Other considerations include good condition HT leads, clean plugs and a good engine ground. **(Note: Do not use solid strand HT leads!)**