OKM Onboard Knock Module
Part Number #53115

Basic specifications

Outputs

- Audio

Physical

- Fitted onto a M800 Plug-In ECU
- Includes a 3 m audio extension lead

Other information

Compatibility

- M800 Plug-In ECUs using ECU Manager software v3.5 and up
- *i2* data analysis
- All knock sensors

Related Software

- Gold Wave Audio Analysis Software for frequency analysis.
  Download from www.goldwave.com

Accessories

- Stereo headphones

User manual

- Download from www.motec.com/downloads/downloadmanuals/

Important

⚠ ESD - Antistatic

All necessary antistatic precautions must be taken while handling circuit boards.

MoTeC's **Onboard Knock Module (OKM)** enables individual cylinder closed loop knock control on our M800 Plug-In ECUs. The knock module allows tuners to safely optimise high performance ignition maps.

The OKM is fitted onto the board of a Plug-In ECU prior to delivery and linked to the knock sensor. M800 Plug-In ECUs are available for selected Subaru, Mitsubishi and Proton vehicles.

To set up a reliable electronic knock control system it is necessary to determine knock levels accurately and differentiate knock from normal engine noise. MoTeC's knock modules use the vehicle's original, factory-fitted knock sensors to detect detonation, improving this detection by reducing the influence of background engine noise using a combination of data gating and frequency filtering.

The OKM is preconfigured to suit the standard vehicle. If the vehicle is modified significantly, contact an authorised MoTeC dealer for further advice.

Knock control tuning is highly specialised work and therefore the Knock Modules will only be available through authorised dealers that have undertaken specific training.