

Implementation Notes for installing the Adaptronic e420c onto the 1UZFE Engine

Test system

The test vehicle was a Toyota Soarer which was originally fitted with the 1UZFE. The vehicle had been converted to manual transmission, and a supercharger had been fitted to the engine.

Installation

The following summarises the main details of the installation:

1. The automatic gearbox was replaced with a R154
2. A Yella Terra YT1500 (Eaton M90) supercharger was fitted to the intake of the 1UZFE engine
3. The factory ECU remained connected in a piggyback configuration, so that communication with the digital dash was retained
4. A 3 bar MAP sensor was added, and connected instead of the airflow signal to the original loom
5. An air temperature sensor was added to the intake, and connected instead of the air temperature signal on the original loom.

The wiring of the installation is given on the last page of this document.

Installation Details

The final page of this document shows the wiring diagram to map the Adaptronic connectors to those of the factory ECU.

Triggering and real-time outputs

The original cam angle sensors and crank angle sensor are retained. The factory crank sensor has one output which pulses every 30 crank degrees, which gives the ECU timing information. Each cam sensor has an output which pulses every 720 degrees, which gives the ECU cylinder and a timing reference.

The injector firing sequence is set to "Fully Sequential, half speed", and "Bash on crank". The current is set to 1.9A as each output is driving two injectors, and the peak-hold drive type is selected. This mode gives a semi sequential configuration with four groups of two injectors, as on the factory ECU configuration.

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