

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.

Toyota 1uzfe Engine Manual

Marcel A. Müller

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Toyota 1uzfe Engine Manual:

Chilton's Import Auto Service Manual ,2000 Contains general information for technicians on the specifications MIL resetting and DTC retrieval accessory drive belts timing belts brakes oxygen sensors electric cooling fans and heater cores of twenty one types of import cars **Automotive Engineering** ,1997-07 **Annual Index/abstracts of SAE Technical Papers** ,1989 **Business Japan** ,1991-07 **Popular Mechanics** ,1997 **Toyota 2f Engine Repair Manual** Toyota Corporation,2006-01-01 Factory engine repair manual for the iconic 2F petrol gasoline engine as fitted to the Toyota 40 55 and 60 Series four wheel drive vehicles This repair manual has been prepared to provide information covering general repair for 2F Gasoline engine as fitted to the TOYOTA LAND CRUISER Per Toyota Motor Sales Co LTD The Toyota 2F engine was one of the F series of OHV inline 6 cylinder engines produced by Toyota between 1955 1992 F Series engines are known for their high amount of torque at low RPM massive cast iron blocks and heads and also their high reliability The 2F Engine had one of the longest production runs of any Toyota engine The F Series engines all incorporate overhead valves actuated by pushrods from a gear driven camshaft in the lower portion of the engine The engine was first introduced in the Toyota FJ40 Land Cruiser and in many countries was the only gasoline engine offered in the Landcruiser until 1993 Although it s commonly badged as the Land Cruiser engine it was used in a variety of other large truck applications as well such as in fire trucks and the Toyota FQ15 trucks It was also used in the Crown based Japanese Police Patrol Cars FH26 and FS20 FS50

Toyota Engine Repair Manual, A Series Toyota Jidōsha Hanbai Kabushiki Kaisha,1979 *Toyota T Series Engine Repair Manual* Toyota Motor Corporation,1985 *Toyota L Engine Repair Manual* Toyota Jidōsha Hanbai Kabushiki Kaisha,1980 **Toyota Engine Repair Manual, 8R-C, 18R-C** Toyota Motor Sales, U.S.A., Inc,1972 **F Engine Repair Manual** Toyota Jidōsha Hanbai Kabushiki Kaisha,1966 **Toyota 1MZ-FE Engine Repair Manual** ,2000 Toyota 3F Engine Repair Manual ,1987 Toyota 3F Engine Repair Manual Toyota Jidōsha Kabushiki Kaisha. Overseas Service Department,1985 **Toyota A Series Engine Repair Manual** , **Toyota 2UZ-FE Engine Repair Manual** ,1998 **Toyota A Series Engine Repair Manual** Toyota Jidōsha Hanbai Kabushiki Kaisha,1980 *Toyota Repair Manual* ,1983 **Toyota T & 2T Engine Repair Manual** Toyota Jidōsha Hanbai Kabushiki Kaisha. Export-Technical Division,1971 **Toyota Repair Manual Supplement** Toyota Jidōsha Kabushiki Kaisha,1987

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