

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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John Haynes



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Toyota Pick-ups & 4-runner Automotive Repair Manual John B. Raffa,Larry Warren,John Harold Haynes,1992

Toyota Corolla Automotive Repair Manual Jeff Killingsworth,John Harold Haynes,2007 AE101 AE102 AE112 ZZE122 1 6L 1 8L engines **Toyota Prado 1996-2008 Automobile Repair Manual** Max Ellery,2004-10-16 This comprehensive manual covers the complete Toyota Prado range of vehicles Detailed engine chapters covering all petrol gasoline and diesel

engines It also covers the Hilux 4 Runner and Surf mechanicals Detailed comprehensive chapters cover the complete range of transmissions The manual also covers all other aspects of the vehicle from changing a light globe through to complete vehicle pull down YComprehensive chapters covering diagnostics and troubleshooting and also includes complete electrical wiring diagrams for the entire vehicle This comprehensive manual consists of over 500 pages of step by step instructions which will suite the DIY handyman through to the professional mechanic Toyota Camry and Lexus ES 300/330 Automotive Repair Manual Jay Storer,John Harold Haynes,2006-02 Haynes offers the best coverage for cars trucks vans SUVs and motorcycles on the market today Each manual contains easy to follow step by step instructions linked to hundreds of photographs and illustrations Included in every manual troubleshooting section to help identify specific problems tips that give valuable short cuts to make the job easier and eliminate the need for special tools notes cautions and warnings for the home mechanic color spark plug diagnosis and an easy to use index *Toyota Tacoma, 4Runner & T100 Automotive Repair Manual* Robert Phillip Maddox, Mike Stubblefield, John Harold Haynes, 1998 **Toyota Camry Automotive Repair Manual** Robert Phillip Maddox, John Harold Haynes, 1995 1992 thru 1995 all models Toyota Pickups and 4-Runner, 1979-1995 John Haynes, 1984-03-31 Haynes disassembles every subject vehicle and documents every step with thorough instructions and clear photos Haynes repair manuals are used by the pros but written for the do it yourselfer **Toyota Tundra and Sequoia Automotive Repair Manual** Max Haynes, Mike Stubblefield, 2009 Haynes offers the best coverage for cars trucks vans SUVs and motorcycles on the market today Each manual contains easy to follow step by step instructions linked to hundreds of photographs and illustrations Included in every manual troubleshooting section to help identify specific problems tips that give valuable short cuts to make the job easier and eliminate the need for special tools notes cautions and warnings for the home mechanic color spark plug diagnosis and an easy to use index

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