HOW TO TROUBLESHOOT ECU CONTROLLED SYSTEMS

010J8–02

GENERAL INFORMATION

A large number of ECU controlled systems are used in LAND CRUISER/LAND CRUISER PRADO. In general, the ECU controlled system is considered to be a very intricate system requiring high level of technical knowledge and expert skill to troubleshoot. The fact is, however, that if you proceed to the circuit inspections one by one, troubleshooting of these systems is not complex. If you have adequate understanding of the system and basic knowledge of electricity, accurate diagnosis and necessary repair can be performed to locate and fix the problem. This manual is designed through emphasis of the above standpoint to help service technicians perform an accurate and effective troubleshooting, and is compiled for the following major ECU controlled systems:

The troubleshooting procedures and how to make use of it are described on the following pages.

System	Page
1. EFI System (1GR–FE)	05–1
2. TEMS & Rear Air Suspension System (1GR–FE)	05–256
3. Electronically Controlled Automatic Transmission [ECT] (A340F)	05–276
4. Air Conditioning System (1GR–FE)	05–339
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7. Cruise Control System (1GR–FE)	05–405

FOR USING HAND–HELD TESTER

- Before using the tester, tester's operator manual should be read thoroughly.
- If the tester cannot communicate with the ECU controlled systems when you have connected the cable of the tester to the DLC3 with the ignition switch and tester turned ON, there is a problem on the vehicle side or tester side.
  (1) If the communication is normal when the tester is connected to another vehicle, inspect the diagnosis data link line (Bus⊕line) or ECU power circuit of the vehicle.
  (2) If the communication is still impossible when the tester is connected to another vehicle, the problem is probably in the tester itself, so perform the Self Test procedures outlined in the Tester Operator's Manual.