

HOW TO TROUBLESHOOT ECU CONTROLLED SYSTEMS

IN00Z-07

GENERAL INFORMATION

A large number of ECU controlled systems are used in the LAND CRUISER (Station Wagon). In general, the ECU controlled system is considered to be a very intricate system requiring a high level of technical knowledge and expert skill to troubleshoot. However, the fact is that if you proceed to inspect the circuits one by one, troubleshooting of these systems is not complex. If you have adequate understanding of the system and a 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 accurate and effective troubleshooting, and is compiled for the following major ECU controlled systems:

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

System	Page
1. Automatic Transmission (A343F)	DI-1
2. Automatic Transmission (A442F)	DI-77
3. Active Height Control Suspension & Skyhook TEMS	DI-310
4. ABS & Hydraulic Brake Booster Power Supply System	DI-310
5. Power Tilt and Power Telescopic Steering Column	DI-409
6. Supplemental Restraint System	DI-445
7. Power Seat Control System	DI-563
8. Wireless Door Lock Control System	DI-584
9. Theft Deterrent System	DI-623
10. Cruise Control System (1FZ-FE, 1HD-T)	DI-670
11. Cruise Control System (2UZ-FE, 1HD-FTE)	DI-720
12. Engine Immobiliser System (2UZ-FE)	DI-745
13. Body Control System	DI-767
14. Multiplex Communication System	DI-825
15. Air Conditioning System	DI-847

FOR USING HAND-HELD TESTER

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