

HOW TO TROUBLESHOOT ECU CONTROLLED SYSTEMS

IN04S-32

GENERAL INFORMATION

A large number of ECU controlled systems are used in the LEXUS S300/IS200. 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. Engine (2JZ-GE)	DI-1
2. Automatic Transmission (A650E)	DI-167
3. ABS with EBD & BA & TRC System	DI-249
4. ABS with EBD & BA & TRC & VSC System	DI-316
5. Supplemental Restraint System	DI-411
6. Theft Deterrent System	DI-474
7. Cruise Control System	DI-519
8. Engine Immobiliser System	DI-535
9. Body Control System	DI-549
10. Multiplex Communication System	DI-565
11. LEXUS Navigation System	DI-572
12. Air Conditioning System	DI-604

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.