

HOW TO TROUBLESHOOT ECU CONTROLLED SYSTEMS

IN03M-06

GENERAL INFORMATION

A large number of ECU controlled systems are used in the LEXUS LS430. 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	DI-1
2. Automatic Transmission	DI-187
3. Electronic Modulated Air Suspension	DI-248
4. ABS with EBD & BA & TRC & VSC System and Progressive Power Steering	DI-339
5. Power Tilt and Power Telescopic Steering Column	DI-455
6. Supplemental Restraint System	DI-482
7. Power Seat Control System	DI-715
8. Rear Left Seat Control System	DI-736
9. Rear Right Seat Control System	DI-759
10. Rear Seat Switch System	DI-782
11. Theft Deterrent System	DI-792
12. Cruise Control System	DI-855
13. Steering Lock System	DI-873
14. Engine Immobiliser System	DI-900
15. Combination Meter System	DI-930
16. Combination Switch Control System	DI-955
17. Steering Pad Switch System	DI-969
18. Rain Sensor System	DI-981
19. Sliding Roof System	DI-989
20. Driver Side Junction Block (Body No. 2) Control System	DI-1003
21. Passenger Side Junction Block (Body No. 3) Control System	DI-1065
22. Luggage Room Junction Block (Body No. 4) Control System	DI-1104
23. Front Light (Body No. 5) Control System	DI-1181
24. Driver Door Control System	DI-1188
25. Passenger Door Control System	DI-1263
26. Rear Left Door Control System	DI-1330
27. Rear Right Door Control System	DI-1386
28. Gateway System	DI-1443
29. Audio System	DI-1549
30. LEXUS Navigation System	DI-1598
31. LEXUS Park Assist System	DI-1721
32. Air Conditioning System	DI-1755

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.