HOW TO TROUBLESHOOT ECU CONTROLLED SYSTEMS

IN05Y–25

GENERAL INFORMATION

A large number of ECU controlled systems are used in the LEXUS GS430/GS300. 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. Engine	3UZ–FE	DI–71
3. Automatic Transmission	2JZ–GE	DI–218
4. Automatic Transmission	3UZ–FE	DI–276
5. ABS & Hydraulic Brake Booster Power Supply System		DI–346
6. Vehicle Stability Control (VSC) System		DI–354
7. Supplemental Restraint System		DI–367
8. Cruise Control System		DI–551
9. Engine Immobiliser System		DI–583
10.Body No. 1 Control System		DI–600
11.Body No. 2 Control System		DI–619
12.Driver Door Control System		DI–628
13.Passenger Door Control System		DI–662
14.Rear Left Door Control System		DI–692
15.Rear Right Door Control System		DI–712
16.Multiplex Communication System		DI–732
17.LEXUS Navigation System		DI–807
18.Air Conditioning System		DI–922

FOR USING HAND–HELD TESTER

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