

HOW TO TROUBLESHOOT ECU CONTROLLED SYSTEMS

GENERAL INFORMATION

010QL-02

A large number of ECU controlled systems are used in the HIGHLANDER. In general, ECU controlled systems are considered to be very intricate, requiring a high level of technical knowledge to troubleshoot. However, most problem checking procedures only involve inspecting the ECU controlled system's circuits one by one. An adequate understanding of the system and a basic knowledge of electricity is enough to perform effective troubleshooting, accurate diagnoses and necessary repairs. Detailed information and troubleshooting procedures on major ECU controlled systems in this vehicle are outlined below:

System	See Page
1. SFI System (2AZ-FE)	05-1
2. SFI System (3MZ-FE)	05-362
3. Tire Pressure Warning System	05-729
4. ABS with EBD & BA & TRAC & VSC System	05-761
5. Electronic Controlled Automatic Transaxle [ECT] (U241E/U140F)	05-876
6. Electronic Controlled Automatic Transaxle [ECT] (U151E/U151F)	05-986
7. Air Conditioning System	05-1114
8. Supplement Restraint System	05-1194
9. Lighting System	05-1526
10. Audio System	05-1611
11. Rear Seat Entertainment System	05-1690
12. Navigation System	05-1749
13. Combination Meter	05-1868
14. Power Window Control System	05-1901
15. Power Door Lock Control System	05-1934
16. Wireless Door Lock Control System	05-1960
17. Sliding Roof System	05-1974
18. Engine Immobiliser System	05-1985
19. Theft Deterrent System	05-2012
20. Multiplex Communication System	05-2040
21. CAN Communication System	05-2090
22. Cruise Control System	05-2136

FOR USING OBD II SCAN TOOL OR HAND-HELD TESTER

- Before using the scan tool or tester, the scan tool's instruction book or tester's operator manual should be read thoroughly.
- If the scan tool or 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 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 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.