HOW TO TROUBLESHOOT ECU CONTROLLED SYSTEMS

010TR–01

GENERAL INFORMATION

A large number of ECU controlled systems are used in the HIGHLANDER/KLUGER. 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	Page
1. SFI System (3MZ–FE)	05–1
2. ABS with BA & EBD System	05–163
3. ABS with EBD & BA & TRAC & VSC System	05–230
4. Electronic Controlled Automatic Transaxle [ECT]	05–336
5. Air Conditioning System	05–420
6. Supplement Restraint System	05–500
7. Seat Belt Warning System	05–719
8. Lighting System	05–739
9. Audio System	05–805
10.Navigation System	05–851
11.Combination Meter	05–956
12.Power Window Control System	05–987
13.Power Door Lock Control System	05–1016
14.Wireless Door Lock Control System	05–1040
15.Engine Immobiliser System	05–1062
16.Theft Deterrent System	05–1093
17.Sliding Roof System	05–1119
18.Multiplex Communication System	05–1132
19.Can Communication System	05–1174
20.Cruise Control System	05–1220

FOR USING HAND–HELD TESTER

- Before using the tester, the tester's operator manual should be read thoroughly.
- If the 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⊕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.