

7. Diagnosis Function

General

The diagnosis circuit of the pre-crash safety system is integrated in the seat belt control ECU. This ECU detects malfunctions that may occur in the system in accordance with the signals provided by the ECUs and the sensors. The diagnosis function consists of an initial check, monitor, and DTC output functions.

Initial Check

The seat belt control ECU performs an initial check on the system for approximately three seconds after the ignition switch has been turned ON. If this check detects a malfunction, the master warning light illuminates in the combination meter, and a warning message appears on the multi-information display.

Monitor Function

After completing the initial check, the pre-crash safety system becomes ready to operate. During this time, the seat belt control ECU periodically monitors the system for any malfunction. If it detects a malfunction during monitoring, the master warning light illuminates in the combination meter and a warning message appears on the multi-information display.

DTC Output

- If the seat belt control ECU detects a malfunction in the pre-crash safety system, it stores 5-digit DTCs (Diagnostic Trouble Codes) in memory.
- The 5-digit DTCs can be read by connecting an intelligent tester II to the DLC3.