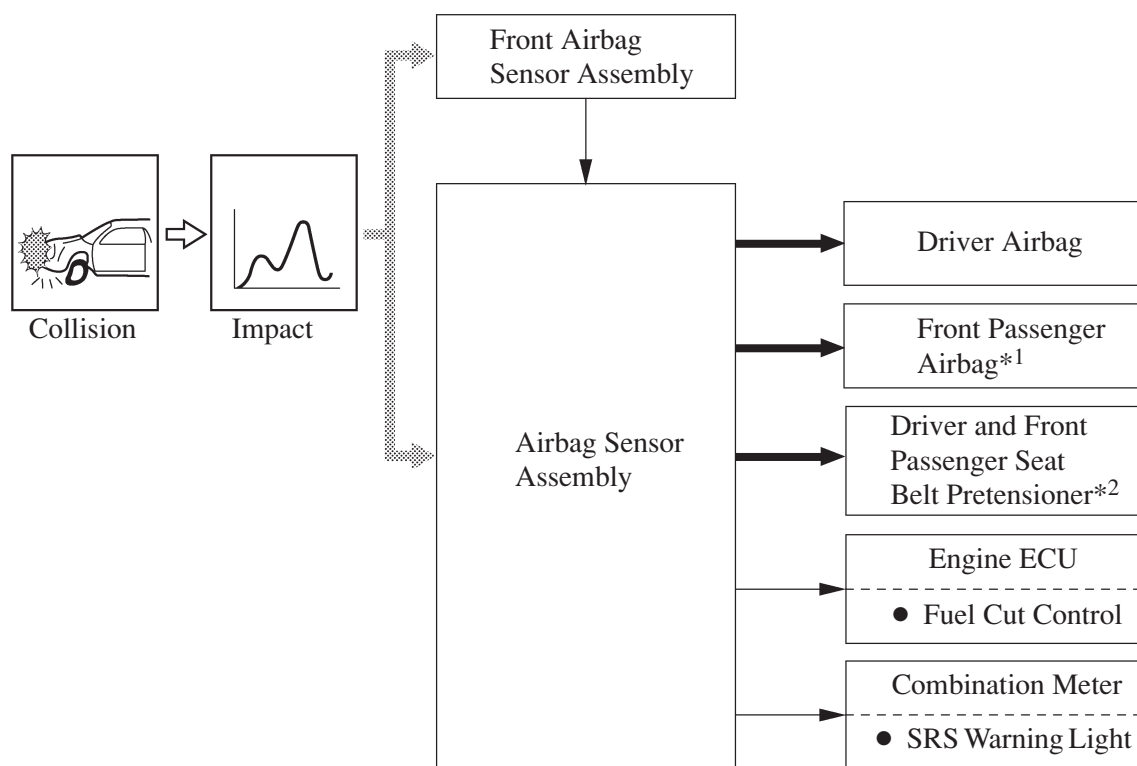


SYSTEM OPERATION

- In conjunction with impact absorbing structure for front collision, the driver and passenger*¹ SRS airbags have been designed to help reduce the impact to the head and chest in the event of a severe front collision. These airbags are supplements to the seat belts.
- The deceleration sensor is enclosed in the front airbag sensor. Based on the deceleration of the vehicle during a front collision, a distortion is created in the sensor and converted into an electrical signal. Accordingly, the extent of the initial collision can be detected in detail.



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*1: Only for Model with Driver and Passenger SRS Airbags

*2: Only for Australian Model

DIAGNOSIS

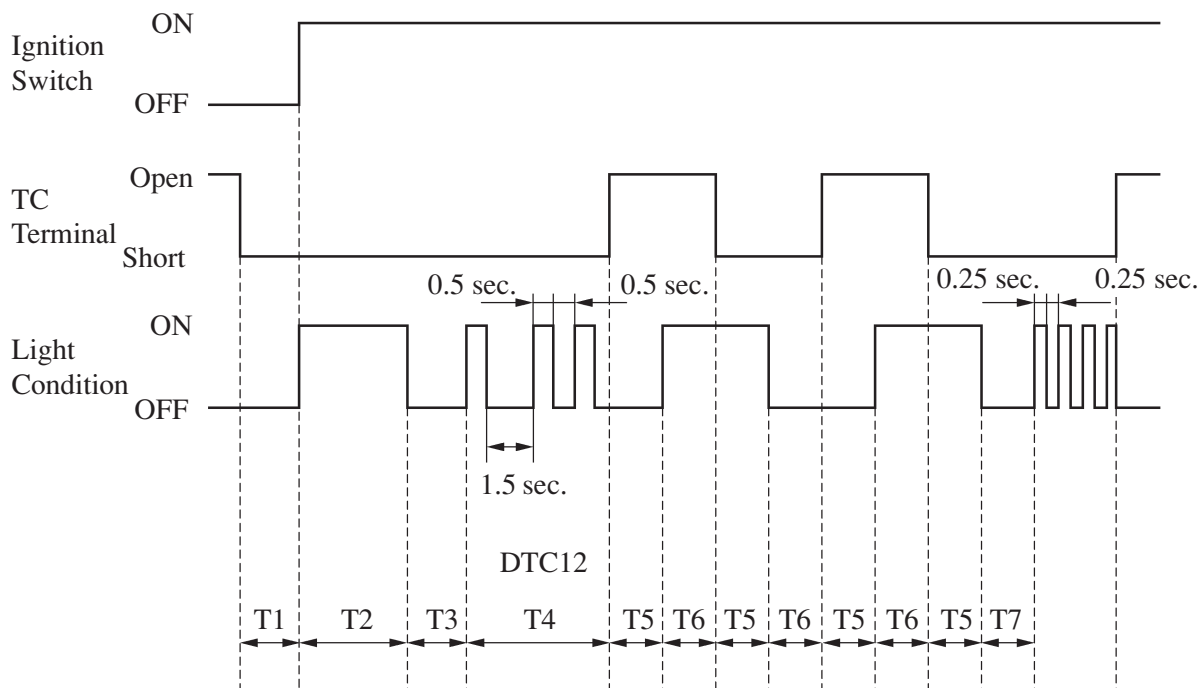
General

- If the airbag sensor assembly detects a malfunction in the SRS airbag system, the airbag sensor assembly stores the malfunction data in memory, in addition to illuminating the SRS warning light.
- The DTCs (Diagnostic Trouble Codes) can be read by connecting the SST (09843-18040) to the Tc and CG terminals of the DLC3, and observing the blinking of the SRS warning light (2-digit code), or by connecting an intelligent tester II (5-digit code). For details, see the Hilux Repair Manual.
- If the SRS Airbag deploys, the airbag sensor assembly will turn on the SRS airbag warning light. However, different from the ordinary diagnosis function, a DTC will not be memorized. The airbag warning light can be turned off only by changing the airbag sensor assembly to a new one.

Service Tip**DTC Clearance (Using not intelligent tester II)**

The DTCs are cleared by opening and shorting the Tc and CG (or ground) terminals of the DLC3 in accordance with the timing chart shown below.

- 1) Using SST (09843-18040), connect terminal TC and CG terminals of the DLC3.
- 2) Disconnect terminal TC of DLC3 within 10 seconds after the DTCs appear, and check if the SRS warning light come on within 3 seconds.
- 3) Within 2 seconds to 4 seconds after the SRS warning light come on, reconnect the Tc and CG terminals of the DLC3.
- 4) SRS warning light goes off 3 seconds after reconnecting the Tc and CG terminals of the DLC3. Then disconnect the terminal TC of the DLC3 within 2 to 4 seconds after the SRS warning light goes off.
- 5) Warning light comes on within 3 seconds after re-disconnecting the Tc and CG terminals of the DLC3.
- 6) Within 2 seconds to 4 seconds after the SRS warning light comes on, reconnect the Tc and CG terminals of the DLC3.
- 7) SRS warning light goes off 3 seconds after reconnecting the Tc and CG terminals of the DLC3.
- 8) Normal codes appears 1 seconds after the SRS warning light goes off.



T1: 0 – ∞ second	T5: 2 – 4 seconds
T2: Approx. 6 seconds	T6: 1 – 5 seconds
T3: 3 – 5 seconds	T7: within 1 second
T4: 3 – 10 seconds	

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