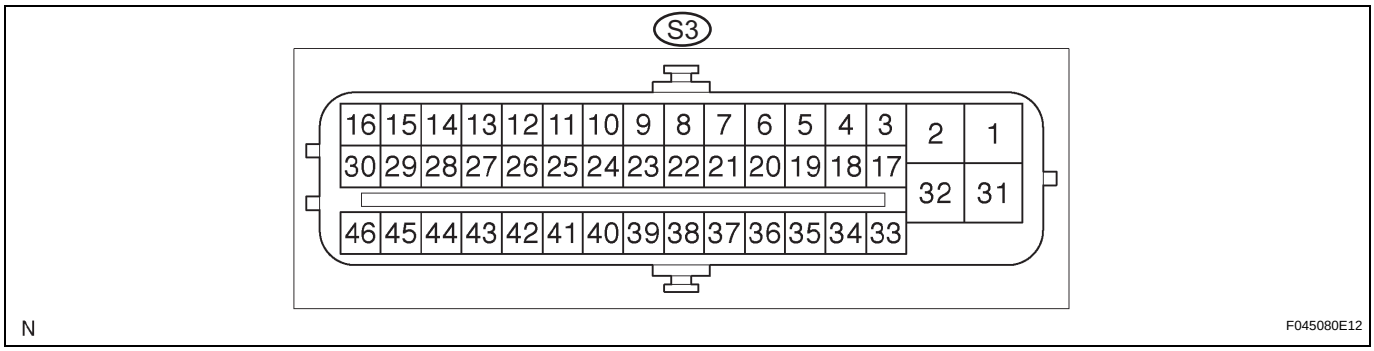
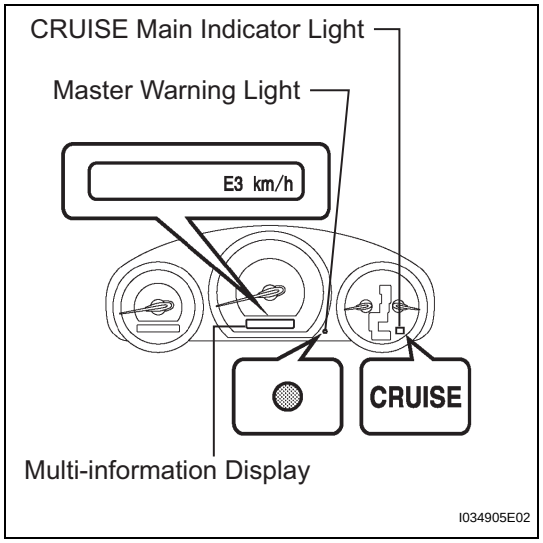
4. BRAKE ACTUATOR ASSEMBLY (SKID CONTROL ECU)



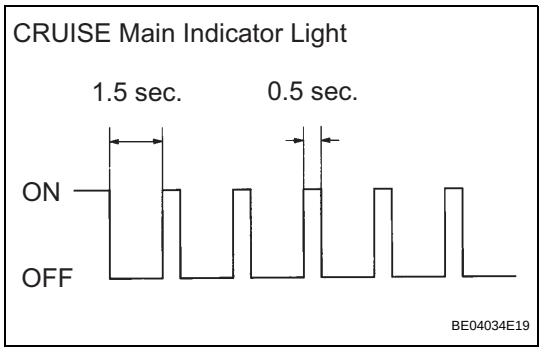
Terminal No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
S3-30 (BZ) - S3-32 (GND1)	G-O - W-B	Skid control buzzer circuit	Ignition switch ON Skid control buzzer is sounded	Below 1.0 V ←→ 10 to 14 V
			Ignition switch ON Skid control buzzer is not sounded	10 to 14 V
S3-16 (STPO) - S3-32 (GND1)	W-R - W-B	Stop light control relay output signal	Ignition switch ON	10 to 14 V
S3-21 (STP2) - S3-32 (GND1)	G-Y - W-B	Stop light control relay input signal	Brake pedal released (Stop light switch OFF)	Below 1.0 V
			Brake pedal depressed (Stop light switch ON)	10 to 14 V
S3-27 (STP1) - S3-32 (GND1)	G-W - W-B	Stop light switch input signal	Ignition switch OFF → ON	Below 1.0 V → 10 to 14 V
			Ignition switch OFF Brake pedal depressed (Stop light switch ON)	10 to 14 V



DIAGNOSIS SYSTEM

1. DIAGNOSIS FUNCTION

(a) The diagnosis function makes the light and the multi-information display come on, and the CRUISE main indicator light blink as shown in the illustration. When a malfunction occurs in the dynamic laser cruise control system, the DTCs are stored in the ECM.



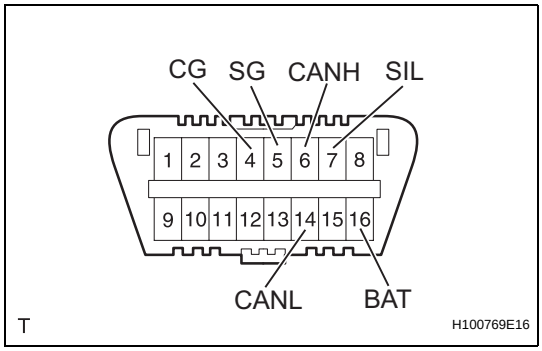
NOTICE:

- **The master warning light goes off if the system returns to normal condition.**
- **Since the stored data in the ECM is erased by disconnecting the EFI and ETCS fuses or the battery terminal, do not disconnect them until the inspection has been completed.**

2. DESCRIPTION

(a) The ECM controls the dynamic laser cruise control system of the vehicle. The data and DTCs relating to the dynamic laser cruise control system can be read from the DLC3 of the vehicle. If the CRUISE main indicator light does not come on after the DTC check, there may be a problem with either the combination meter or the CAN communication and multiplex communication systems. Use the intelligent tester to check and solve the problem.

CC



3. CHECK DLC3

(a) The vehicle's ECM uses the ISO 15765-4 for communication protocol. The terminal arrangement of the DLC3 complies with SAE J1962 and matches the ISO 15765-4 format.

Terminal No. (Symbols)	Terminal Description	Condition	Specified Condition
SIL (7) - SG (5)	Bus "+" line	During transmission	Pulse generation
CG (4) - Body ground	Chassis ground	Always	Below 1 Ω
SG (5) - Body ground	Signal ground	Always	Below 1 Ω
BAT (16) - Body ground	Battery positive	Always	11 to 14 V
CANH (6) - CANL (14)	CAN bus line	Ignition switch OFF*	54 to 69 Ω
CANH (6) - CG (4)	HIGH-level CAN bus line	Ignition switch OFF*	200 Ω or higher
CANL (14) - CG (4)	LOW-level CAN bus line	Ignition switch OFF*	200 Ω or higher
CANH (6) - BAT (16)	HIGH-level CAN bus line	Ignition switch OFF*	6 kΩ or higher
CANL (14) - BAT (16)	LOW-level CAN bus line	Ignition switch OFF*	6 kΩ or higher

NOTICE:

***: Before measuring the resistance, leave the vehicle for at least 1 minute and do not operate the ignition switch, any other switches, or doors.**