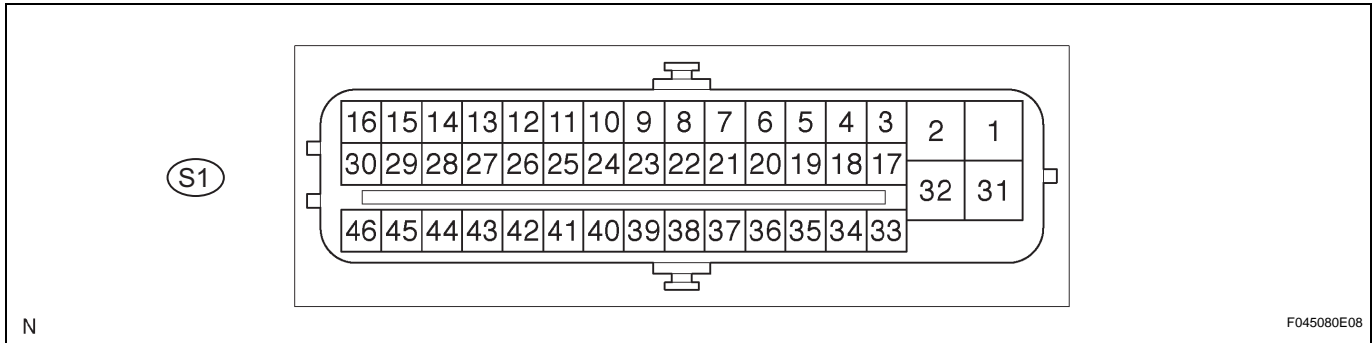


TERMINALS OF ECU

1. SKID CONTROL ECU



Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
BM (S1-2) - GND1 (S1-32), GND2 (S1-1)	B-W - W-L, W-B	Motor relay test input	IG switch ON, pump motor running	10 to 14 V
FR+ (S1-3) - FR- (S1-17)	V - R	Front RH wheel speed signal input	IG switch ON, slowly turn right front wheel	Pulse generation
RR+ (S1-5) - RR- (S1-19)	L-B - BR	Rear RH wheel speed signal input	IG switch ON, slowly turn right front wheel	Pulse generation
FSW+ (S1-7) - GND1 (S1-32), GND2 (S1-1)	LG - W-L, W-B	FSW switch input	IG switch ON, brake pedal released	2 to 4 V
TRC+ (S1-8) - TRC- (S1-22)	BR - P	ECM communication output	IG switch ON	Pulse generation
ENG+ (S1-9) - ENG- (S1-23)	G - LB	ECM communication input	IG switch ON	Pulse generation
NEO (S1-10) - GND1 (S1-32), GND2 (S1-1)	V - W-L, W-B	Engine revolution signal input	Engine idling	Pulse generation
CANH (S1-11) - CANL (S1-25)	L - W	CAN communication line	IG switch OFF	54 to 67 Ω
SP1 (S1-12) - GND1 (S1-32), GND2 (S1-1)	BR - W-L, W-B	Speed signal output	Vehicle drives at about 12 mph (20 km/h)	Pulse generation
D/G (S1-13) - GND1 (S1-32), GND2 (S1-1)	L-B - W-L, W-B	Diagnosis tester communication line	IG switch ON	10 to 14 V
MRF (S1-14) - R+ (S1-45)	R - Y	Fail safe motor relay output	IG switch ON	10 to 14 V
MR (S1-15) - R+ (S1-45)	L - Y	Motor relay output	IG switch ON, pump motor running	10 to 14 V
STPO* ¹ (S1-16) - GND1 (S1-32), GND2 (S1-1)	G - W-L, W-B	Stop light relay output	IG switch ON	10 to 14 V
FL+ (S1-18) - FL- (S1-4)	G - B	Front LH wheel speed signal input	IG switch ON, slowly turn left front wheel	Pulse generation
RL+ (S1-20) - RL- (S1-6)	O - W	Rear LH wheel speed signal input	IG switch ON, slowly turn left rear wheel	Pulse generation
STP2* ¹ (S1-27) - GND1 (S1-32), GND2 (S1-1)	GR - W-L, W-B	Stop light relay input	Stop light switch ON (Brake pedal depressed)	8 to 14 V
STP2* ¹ (S1-27) - GND1 (S1-32), GND2 (S1-1)	GR - W-L, W-B	Stop light relay input	Stop light switch OFF (Brake pedal released)	Below 1.5 V
TS (S1-24) - GND1 (S1-32), GND2 (S1-1)	LG-B - W-B, W-B	Sensor check input	IG switch ON	10 to 14 V
STP1* ¹ (S1-27) - GND1 (S1-32), GND2 (S1-1)	W - W-L, W-B	Stop light switch input	Stop light switch ON (Brake pedal pushed)	8 to 14 V
STP1* ¹ (S1-27) - GND1 (S1-32), GND2 (S1-1)	W - W-L, W-B	Stop light switch input	Stop light switch OFF (Brake pedal released)	Below 1.5 V
PKB (S1-28) - GND1 (S1-32), GND2 (S1-1)	LG - W-L, W-B	Parking brake switch input	IG switch ON, parking brake switch ON	Below 1.5 V

Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
PKB (S1-28) - GND1 (S1-32), GND2 (S1-1)	LG - W-L, W-B	Parking brake switch input	IG switch ON, parking brake switch OFF	10 to 14 V
WA (S1-29) - GND1 (S1-32), GND2 (S1-1)	V - W-L, W-B	ABS warning light output	IG switch ON, ABS warning light ON	6 to 11 V
WA (S1-29) - GND1 (S1-32), GND2 (S1-1)	V - W-L, W-B	ABS warning light output	IG switch ON, ABS warning light OFF	Below 2.0 V
BZ (S1-30) - GND1 (S1-32), GND2 (S1-1)	O - W-L, W-B	Buzzer output	IG switch ON, VSC buzzer sounds	Below 1.0 ←→10 to 14 V
BZ (S1-30) - GND1 (S1-32), GND2 (S1-1)	O - W-L, W-B	Buzzer output	IG switch ON, VSC buzzer does not sound	10 to 14 V
+BS (S1-31) - GND1 (S1-32), GND2 (S1-1)	L - W-L, W-B	Solenoid relay power supply	Always	10 to 14 V
VSCW (S1-36) - GND1 (S1-32), GND2 (S1-1)	R - W-L, W-B	VSC warning light output	IG switch ON, VSC warning light ON	Below 2.0 V
RRO* ³ , * ⁴ (S1-39) - GND1 (S1-32), GND2 (S1-1)	O - W-L, W-B	Rear RH wheel speed signal output	Vehicle drives at about 20 km/h (12mph)	Plus generation
RRO* ³ , * ⁴ (S1-40) - GND1 (S1-32), GND2 (S1-1)	P - W-L, W-B	Rear LH wheel speed signal output	Vehicle drives at about 20 km/h (12mph)	Plus generation
WFSE (S1-42) - GND1 (S1-32), GND2 (S1-1)	G - W-L, W-B	WFSE input	IG switch ON	10 to 14 V
CSW (S1-43) - GND1 (S1-32), GND2 (S1-1)	B - W-L, W-B	TRAC OFF switch input	TRAC OFF switch OFF	10 to 14 V
BRL (S1-44) - GND1 (S1-32), GND2 (S1-1)	GR - W-L, W-B	Brake warning light output	IG switch ON, BRAKE warning light ON	6 to 11 V
BRL (S1-44) - GND1 (S1-32), GND2 (S1-1)	GR - W-L, W-B	Brake warning light output	IG switch ON, BRAKE warning light OFF	Below 2.0 V
R+ (S1-45) - GND1 (S1-32), GND2 (S1-1)	Y - W-L, W-B	Power supply for motor relay	IG switch ON	10 to 14 V
IG1 (S1-46) - GND1 (S1-32), GND2 (S1-1)	P - W-L, W-B	IG1 power supply	IG switch ON	10 to 14 V

*1: w/ Dynamic Laser Cruise Control

*2: w/o Dynamic Laser Cruise Control

*3: w/ Air Suspension System

*4: w/o Air Suspension System

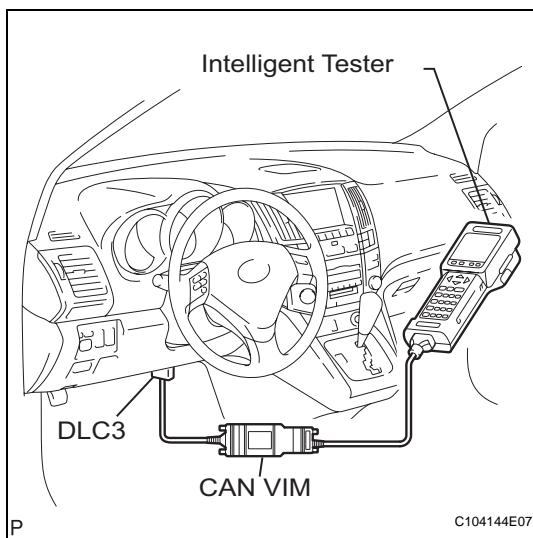
DTC CHECK / CLEAR

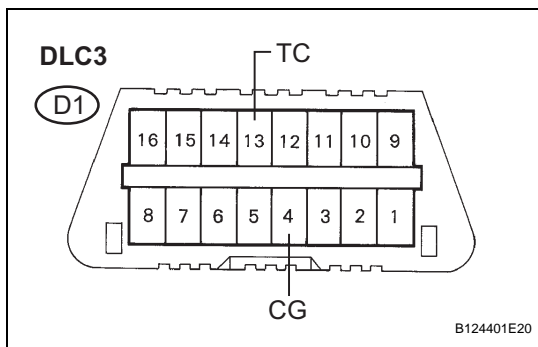
1. DTC CHECK/CLEAR (WHEN USING INTELLIGENT TESTER):

- (a) DTC check
 - (1) Connect the intelligent tester to the DLC3.
 - (2) Turn the ignition switch on.
 - (3) Read the DTCs following the prompts on the tester screen.
- (b) DTC clear
 - (1) Connect the intelligent tester to the DLC3.
 - (2) Turn the ignition switch on.
 - (3) Operate the intelligent tester to clear the codes.

HINT:

Refer to the intelligent tester operator's manual for further details.

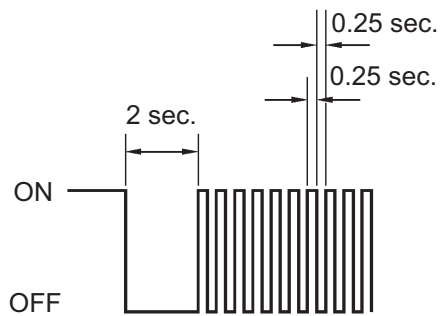




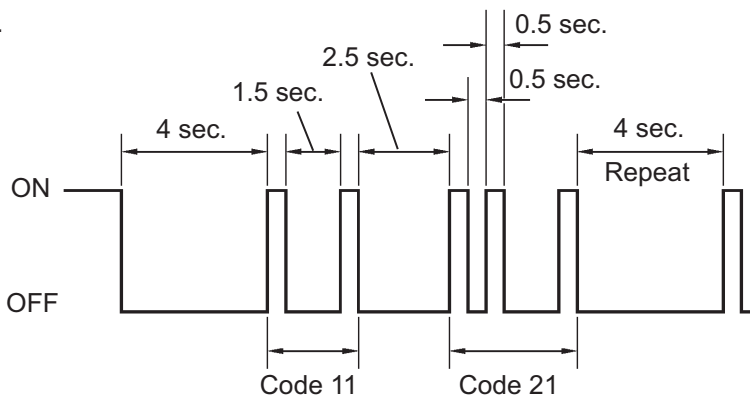
2. DTC CHECK/CLEAR (WHEN USING SST CHECK WIRE):

- (a) DTC check
 - (1) Using SST, connect terminals TC and CG of the DLC3.
SST 09843-18040
 - (2) Turn the ignition switch on.
 - (3) Read DTC from the ABS and VSC control warning lights on the combination meter.

Normal System Code:



Trouble Code (Example Codes 11 and 21):



N

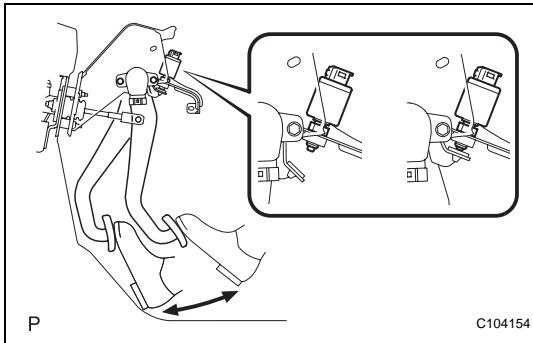
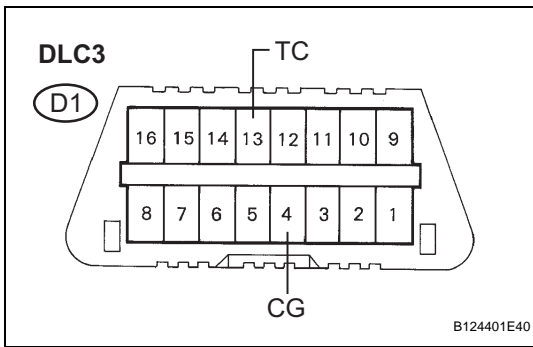
I042843E03

HINT:

- If no code appears, inspect the TC and CG terminal circuit, and ABS and VSC warning light circuits.

Trouble Area	See Procedure
TC and CG terminal circuit	BC-103
ABS warning light circuit	BC-79
VSC warning light circuit	BC-83

- As an example, the illustration below shows the blinking patterns of the normal system code and trouble codes 31 and 43, and display of the normal system code.
- (4) Codes are explained in the code table (See page [BC-21](#)).
 - (5) After completing the check, disconnect terminals TC and CG of the DLC3, and turn off the display. If 2 or more DTCs are detected at the same time, the DTCs will be displayed in ascending order.



- (b) DTC clear
 - (1) Using SST, connect terminals TC and CG of the DLC3.
 - SST 09843-18040**
 - (2) Turn the ignition switch on.

- (3) Clear the DTCs stored in the ECU by depressing the brake pedal 8 times or more within 5 seconds.
 - (4) Check that the ABS warning and brake control lights and multi information display indicate the normal system code.
 - (5) Remove the SST from the terminals of the DLC3.
- HINT:**
Clearing the DTCs cannot be performed by removing the battery cable or the ECU-IG NO.1 fuse.

3. END OF DTC CHECK/CLEAR (WHEN USING SST CHECK WIRE):

- (a) Turn the ignition switch on.
- (b) Check that the ABS and brake control warning lights go off within approximately 3 seconds.