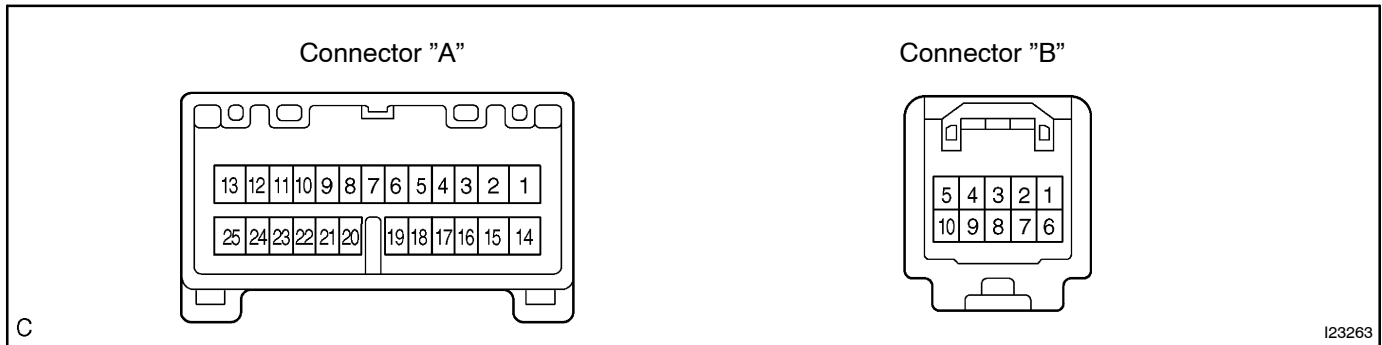


# TERMINALS OF ECU

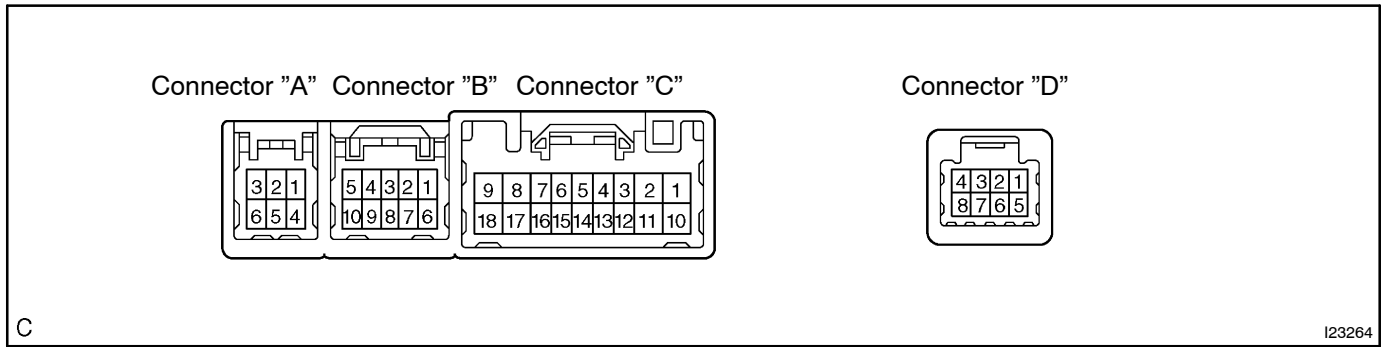
## 1. MULTI DISPLAY



Terminals (Symbols)	Condition	Specified value	Problem symptom when open circuit is detected.
			Problem symptom when short circuit is detected.
A1 - A25 (+B - GND1)	Constant	Battery voltage	Screen is in disorder.
A3 - A25 (IG - GND1)	Ignition switch ON	Battery voltage	Navigation system does not operate.
A4 - A25 (SPD - GND1)	Input signal displayed	-	Navigation operation is available during driving, or a cursor on present site does not move.
A5 (GTX+)	System checking	-	Screen is in disorder.
			Navigation system does not operate.
A7 - A25 (DR - GND1)	System checking	-	Screen is in disorder.
			Navigation system does not operate.
A10 - A25 (RE1 - GND1)	Ignition switch position ACC	Approx. 3 V	Controller does not operate.
A14 - A25 (ACC - GND1)	Ignition switch position ACC	Battery voltage	Screen is in disorder
			Fuse is blown.
A15 - A25 (ST1 - GND1)	Ignition switch ON	Battery voltage	Navigation system does not operate.
A16 - A25 (TC - GND1)	Ignition switch position OFF and connect terminals TC and CG of DLC3.	Continuity	Screen ins in disorder.
			Constant screen is normal.
A17 - A25 (PKB - GND1)	Input signal displayed	-	The system can not enter diagnosis system mode.
			Normal.
A18 (GTX-)	System checking	-	Screen is in disorder.
			Navigation system does not operate.
A22 - Body ground (SGD1 - Body ground)	Constant	Continuity	Normal.
A25 - Body ground (GND1 - Body ground)	Diagnosis display check screen is white.	Continuity	Normal.

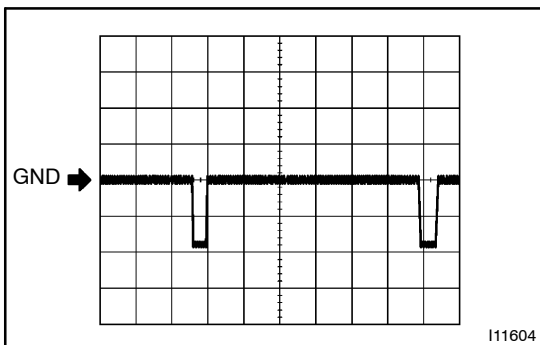
B1 - A25 (VR - GND1)	Constant	Approx. 2.5 V	Screen is in disorder.
			Navigation system does not operate.
B2 - A25 (R - GND1)	Diagnosis display check screen is white.	Using an oscilloscope *2	Screen color turns to light blue.
B3 - A25 (B - GND1)	Ignition switch position ACC	Using an oscilloscope *2	Screen color turns to yellow.
B5 (CTX+)	System checking	-	Screen is in disorder.
			Navigation system does not operate.
B6 - A25 (VG - GND1)	Constant	Continuity	Normal.
B7 - A25 (G - GN1)	Diagnosis display check screen is white.	Using an oscilloscope *2	Screen color turns to pink.
B8 - A25 (SYNC - GND1)	Navigation screen is display.	Using an oscilloscope *1	Screen noise or other types of noise occur.
B10 (CTX-)	System checking	-	Screen is in disorder.
			Navigation system does not operate.

## 2. NAVIGATION ECU



Terminals (Symbols)	Condition	Specified value	Problem symptom when open circuit
			Problem symptom when short circuit
B1 - Body ground (VR - Body ground)	Constant	Continuity	Normal
B2 - C17 (R - GND)	Diagnosis display check screen is while	Using an oscilloscope *2	Screen color turns to light blue.
B3 - C17 (B - GND)	Diagnosis display check screen is while	Using an oscilloscope *2	Screen color turns to light yellow.
B5 - B10 (TX+ - TX-)	Ignition switch position ACC	Approx. 3 V	Controller does not operate.
B6 - Body ground (VG - Body ground)	Constant	Continuity	Normal
B7 - C17 (G - GND)	Diagnosis display check screen is while	Using an oscilloscope *2	Screen color turns to pink.
B8 - C17 (SYNC - GND)	Diagnosis display check screen is while	Using an oscilloscope *1	Screen is in disorder.
B10 - Body ground (TX- - Body ground)	Constant	Continuity	Normal.
C1 - C17 (AUI+ - GND)	Speaker sounding.	5 - 7 V	Driver side speaker does not sound.
C2 - C17 (AUO+ - GND)	Speaker sounding.	5 - 7 V	Driver side speaker does not sound.
C4 (MUTE)	Speaker sounding.	-	Screen noise or other types of noise occur.
			Driver side speaker does not sound.
C5 (SPD)	Input signal displayed	-	Navigation operation is available during driving, or a cursor on pres- ent site does not move.
C9 - C17 (+B - GND)	Constant	Battery voltage	Screen is in disorder.
			Fuse is blown.
C10 - C17 (AUI- - GND)	Speaker sounding.	5 - 7 V	Driver side speaker does not sound.
C11 - C17 (AUO- - GND)	Speaker sounding.	5 - 7 V	Driver side speaker does not sound.

C15 (MUTE)	Speaker sounding.	-	Screen noise or other types of noise occur. Driver side speaker does not sound.
C17 - Body ground (GND - Body ground)	Constant	Continuity	Normal.
C18 - C17 (ACC - GND)	Ignition switch position ACC.	Battery voltage	Screen is in disorder. Fuse is blown.
D1 - C17 (SW- - GND)	Ignition switch OFF	0 V	Switch illumination dose not light up and switch can be operation.
D3 - C17 (MIC+ - GND)	Ignition switch position ACC	Approx. 5 V	No voice can be heard from cellular phone and voice recognition cannot be done.
D4 - C17 (MACC - GND)	Ignition switch position ACC	Approx. 5 V	No voice can be heard from cellular phone and voice recognition cannot be done.
D5 - C17 (MIC- - GND)	Ignition switch position ACC	Approx. 5 V	No voice can be heard from cellular phone and voice recognition cannot be done.
D6 - Body ground (SGND - Body ground)	Constant	Continuity	Normal.
D7 (SNSE)	-	-	-
D8 - C17 (SW+ - GND)	Ignition switch position ACC	Approx. 5 V	Switch illumination dose not light up and switch can be operation.

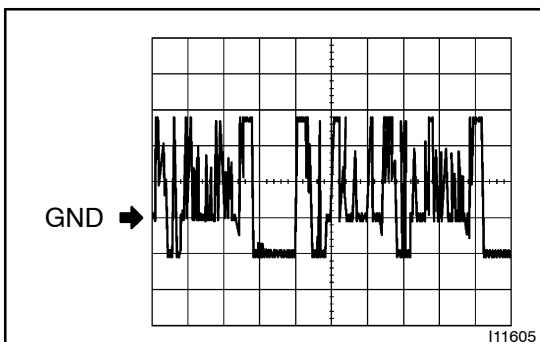


### Oscilloscope

Wave \*1

HINT:

- Terminal SYNC, EXSYNC ↔ GND1
- Gauge set 500 mV/DIV 10 μs/DIV
- Condition: Screen is display



Wave \*2

HINT:

- Terminal R, G, B, E\*-R, E\*-G, EX-B ↔ GND1
- Gauge set 200 mV/DIV 10 μs/DIV
- Condition: Screen changing