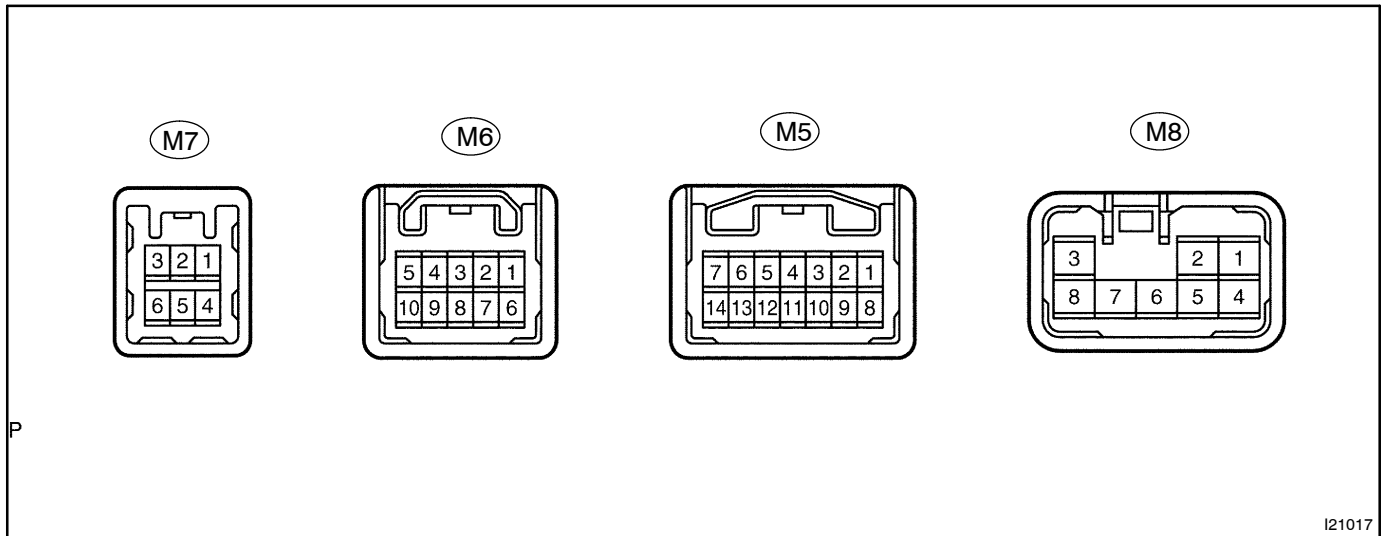


# TERMINALS OF ECU

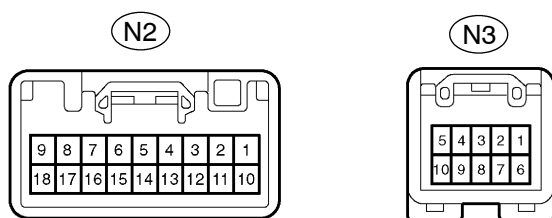
## Multi-display:



Symbols (Terminal No.)	Condition	STD Voltage (V)	Problem symptom when open circuit is detected.
			Problem symptoms when short circuit is detected.
TX3+ (M5 -4)	AVC-LAN communication circuit	-	Navigation system does not operate.
SPD ↔ GND1 (M5-5 ↔ M8-6)	Ignition switch ON, and driving wheel rotated smoothly	Repeatedly changes from below to 9 V	Fuel efficiency cannot be calculated.
TX1- (M5-10)	AVC-LAN communication circuit	-	Navigation system does not operate.
TX3- (M5-11)	AVC-LAN communication circuit	-	Navigation system does not operate.
PKB ↔ GND1 (M5-13 ↔ M8-6)	Ignition switch ON, and parking brake switch ON (parking brake pedal released)	5 V	The system cannot enter Diagnostic system mode.
TC ↔ GND1 (M5-14 ↔ M8-6)	Ignition switch OFF and connect terminals TC and E 1 of check connector	Continuity	Navigation system is normal.
			The system does not exit Service check mode.
VR ↔ VG (M6-1 ↔ M6-6)	Constant	Continuity	Screen noise or other types of noise occur.
R ↔ VG (M6-2 ↔ M6-6)	Diagnosis display check screen is white (Using an oscilloscope)	$0.7 \pm 0.1 \text{ V} \times 2$	Screen color turns to blue
B ↔ VG (M6-3 ↔ M6-6)	Diagnosis display check screen is white (Using an oscilloscope)	$0.7 \pm 0.1 \text{ V} \times 2$	Screen color turns to yellow
TX+ (M6-5)	AVC-LAN communication circuit	-	Navigation system does not operate.
VG ↔ GND1 (M6-6 ↔ M8-6)	Constant	Continuity	Screen noise or other types of noise occur.
			Navigation system does not operate.
SYNC ↔ GND1 (M6-8 ↔ M8-6)	-	-	-

TX- (M6-10)	AVC-LAN communication circuit	-	Navigation system does not operate.
NTSC ↔ SGD1 (M7-3 ↔ M7-6)	-	-	-
ILL+ ↔ GND1 (M8-8 ↔ M8-6)	Light control switch TAIL or HEAD	9 V or more	Switching between night and day mode cannot be done.
ILL- ↔ GND1 (M8-7 ↔ M8-6)	Light control switch TAIL or HEAD	9 V or more	Switching between night and day mode cannot be done.
+B ↔ GND1 (M7-8 ↔ M8-6)	Constant	10 – 14 V	Navigation system does not operate.
IG ↔ GND1 (M7-8 ↔ M8-6)	Ignition switch ON	10 – 14 V	Navigation system does not operate.
ACC ↔ GND1 (M7-8 ↔ M8-6)	Ignition switch ACC	10 – 14 V	Navigation system does not operate.

## Navigation ECU

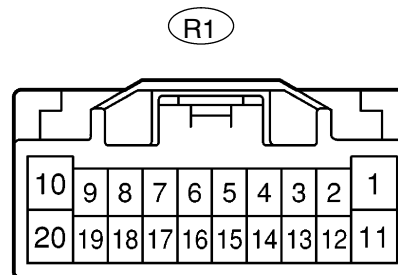
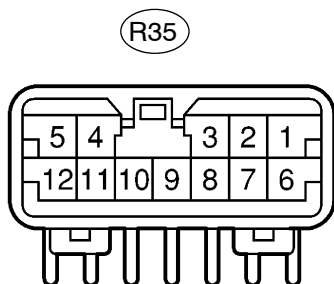


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I15499

Symbols (Terminals NO. )	Condition	STD Voltage (V)	Problem symptom when open circuit is detected.
			Problem symptom when short circuit is detected.
AUI+ - GND (N2-1 - N2-17)	Radio switch ON	5 - 7 V	Driver's side speaker does not sound.
AUO+ - GND (N2-2 - N2-17)	Radio switch ON	5 - 7 V	Driver's side speaker does not sound.
SPD - GND (N2-5 - N2-17)	Ignition switch ON and driving wheel rotated slowly	Repeatedly changes from below to 9 V	Navigation operation is available during, or a cursor on present site does not move.
+B - GND (N2-9 - N2-17)	Constant	10 - 14 V	The set route can not be memorized. (The route disappears by turning the ignition switch OFF.)
			Fuse is blown.
AUI- - GND (N2-10 - N2-17)	Radio switch ON	5 - 7 V	Driver's side speaker does not sound.
AUO- - GND (N2-11 - N2-17)	Radio switch ON	5 - 7 V	Driver's side speaker does not sound.
REV - GND (N2-14 - N2-17)	A/T shift position R	5 V	The direction of advance of the vehicle is different from that of the cursor.
GND - Body ground (N2-17 - Body ground)	Constant	Below 1 V	Audio system is normal.
ACC - GND (N2-18 - N2-17)	Ignition switch ACC or ON	10 - 14 V	Audio system does not sound.
VR - VG (N3-1 - N3-6)	Constant	Continuity	Screen noise or other types of noise occur.
			Navigation system does not operation.
R - VG (N3-2 - N3-6)	Diagnosis display check screen is white (Using an oscilloscope)	0.7 V $\pm$ 0.1 V*1	Screen color turns to blue.

## Radio receiver assembly



P

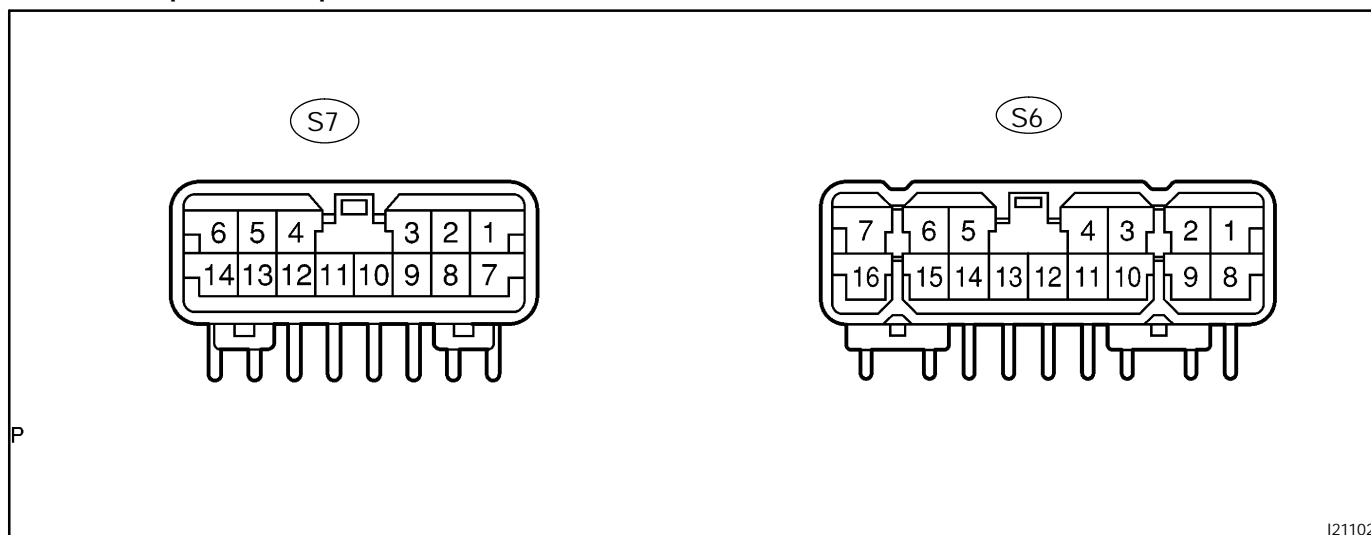
I21101

Symbols (Terminal No.)	Condition	STD Voltage (V)	Problem symptom when open circuit is detected.
			Problem symptoms when short circuit is detected.
B ↔ GND (R1-1 ↔ R1-20)	Constant	10 - 14 V	Audio system does not operate.
ILL+ ↔ GND (R1-2 ↔ R2-20)	Light control switch TAIL	10 - 14 V	Audio head unit illumination does not light up.
AMP ↔ GND (R1-3 ↔ R1-20)	-	-	-
TX+ (R1-5)	AVC-LAN Communication circuit	-	Audio system does not operate.
F.R ↔ GND (R1-8 ↔ R1-20)	Constant	10 - 14 V	Sound from front right speaker is small
F.L ↔ GND (R1-9 ↔ R1-20)	Constant	10 - 14 V	Sound from front left speaker is small
ACC ↔ GND (R1-11 ↔ R1-20)	Ignition switch ACC	10 - 14 V	Audio system does not operate.
ILL- ↔ GND (R1-12 ↔ R1-20)	Light control switch TAIL	Below 0.5 V	Audio head unit illumination does not light up.
ANT+ ↔ GND (R1-13 ↔ R2-20)	Radio switch ON	10 - 14 V	Antenna does not extend.
ILL- ↔ GND (R1-12 ↔ R2-20)	Light control switch TAIL	10 - 14 V	Fuse is blown.
TX- (R1-15)	AVC-LAN Communication circuit	-	Audio system does not operate.
R.R ↔ GND (R1-18 ↔ R1-20)	Constant	10 - 14 V	Sound from rear right side speaker is small.
R.L ↔ GND (R1-19 ↔ R1-20)	Constant	10 - 14 V	Sound from rear left side speaker is small.
GND ↔ Body ground (R1-20 ↔ Body ground)	Constant	Continuity	Audio system is normal.
CDR+ (R35-1)	-	-	Sound from right side speaker is small

## DIAGNOSTICS – NAVIGATION SYSTEM

CDL+ (R35-2)	–	–	Sound from left side speaker is small
MUTE ↔ GND (R35-4 ↔ R1-20)	–	–	Pop sound etc.
			Audio system does not operate.
CDR- (R35-6)	–	–	Sound from right side speaker is small
CDL- (R35-7)	–	–	Sound from left side speaker is small
TXM+ ↔ GND (R35-9 ↔ R1-20)	AVC-LAN communication circuit	–	Audio system does not operate.
TXM+ (R35-10)	AVC-LAN communication circuit	–	Audio system does not operate.

## Stereo component amplifier

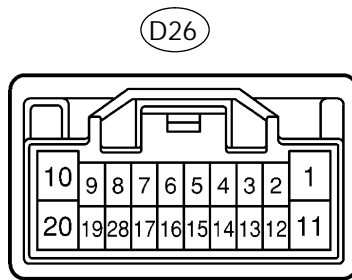


Symbols (Terminal No.)	Condition	STD Voltage (V)	Problem symptom when open circuit is detected.
FR+ ↔ GND1 (S6-1 ↔ S6-12)	Radio switch ON	5 – 7 V	RH side speaker does not sound.
FL+ ↔ GND1 (S6-2 ↔ S6-12)	Radio switch ON	5 – 7 V	LH side speaker does not sound.
RR+ ↔ GND1 (S6-3 ↔ S6-12)	Radio switch ON	5 – 7 V	Rear RH side speaker does not sound.
RL+ ↔ GND1 (S6-4 ↔ S6-12)	Radio switch ON	5 – 7 V	Rear LH side speaker does not sound.
WR+ ↔ GND1 (S6-5 ↔ S6-12)	Radio switch ON	5 – 7 V	Rear RH side speaker does not sound.
WL+ ↔ GND1 (S6-6 ↔ S6-12)	Radio switch ON	5 – 7 V	Rear LH side speaker does not sound.
+B ↔ GND1 (S6-7 ↔ S6-12)	Constant	10 – 14 V	All speaker does not sound
FR- ↔ GND1 (S6-8 ↔ S6-12)	Radio switch ON	5 – 7 V	RH side speaker does not sound.
FL- ↔ GND1 (S6-9 ↔ S6-12)	Radio switch ON	5 – 7 V	LH side speaker does not sound.
RL- ↔ GND1 (S6-11 ↔ S6-12)	Radio switch ON	5 – 7 V	Rear LH side speaker does not sound.
GND1 ↔ Body ground (S6-12 ↔ Body ground)	Constant	Continuity	–
GND2 ↔ Body ground (S6-13 ↔ Body ground)	Constant	Continuity	–
WR- ↔ GND1 (S6-14 ↔ S6-12)	Radio switch ON	5 – 7 V	Rear RH side speaker does not sound.
WL- ↔ GND1 (S6-14 ↔ S6-12)	Radio switch ON	5 – 7 V	Rear LH side speaker does not sound.
+B2 ↔ GND2 (S6-7 ↔ S6-13)	Constant	10 – 14 V	All speaker does not sound
AMP (S7-1)	–	–	–

## DIAGNOSTICS – NAVIGATION SYSTEM

ACC ↔ GND1 (S7-2 ↔ S6-13)	Ignition switch ACC	10 – 14 V	Audio system does not operate.
BEEP (S7-4)	–	–	LH side speaker does not sound.
F.L ↔ GND1 (S7-5 ↔ S6-13)	Constant	10 – 14 V	Sound from front LH speaker is small.
F.R ↔ GND1 (S7-6 ↔ S6-13)	Constant	10 – 14 V	Sound from front RH speaker is small.
SGND ↔ GND1 (S7-11 ↔ S6-13)	–	5 – 7 V	–
MUTE ↔ GND1 (S7-12 ↔ S6-13)	Radio switch ON	5 – 7 V	Audio system does not operate.
R.L ↔ GND1 (S7-13 ↔ S6-13)	Constant	10 – 14 V	Sound from rear LH speaker is small.

## CD auto changer:



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I21103

Symbols (Terminal No.)	Condition	STD Voltage (V)	Problem symptom when open circuit is detected.
ACC ↔ GND (D26-1 ↔ D26-20)	Ignition switch ACC	10 – 14 V	CD auto changer does not operate.
TXM+ ↔ GND (D26-3 ↔ D26-20)	AVC-LAN communication circuit	–	Audio system does not operate.
CDR+ (D26-5)	–	–	Sound from right side speaker is small.
CDL+ (D26-6)	–	–	Sound from left side speaker is small.
NTSC (D26-9)	–	–	–
+B ↔ GND (D26-10 ↔ D26-20)	Constant	10 – 14 V	CD auto changer does not operate.
MUTE ↔ GND (D26-11 ↔ D26-20)	DISC switch ON	5 – 7 V	Audio system does not operate.
TXM- ↔ GND (D26-13 ↔ D26-20)	AVC-LAN communication circuit	–	Audio system does not operate.
CDR- (D26-15)	–	–	Sound from right side speaker is small.
CDL- (D26-16)	–	–	Sound from left side speaker is small.



The diagram shows a rectangular connector labeled 'G4' at the top. Inside the rectangle, there is a 2x8 grid of pins. The top row of pins is numbered 7, 6, 5, 4, 3, 2, 1 from left to right. The bottom row of pins is numbered 14, 13, 12, 11, 10, 9, 8 from left to right. The connector has a central notch at the top and bottom, and side tabs on the left and right.

[illegible]

\*1: wave1



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*1: wave1
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