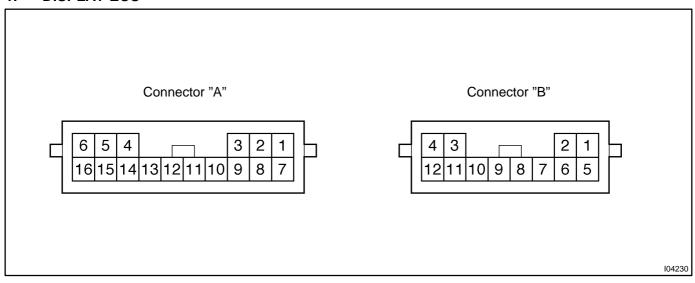
DI1MS-01

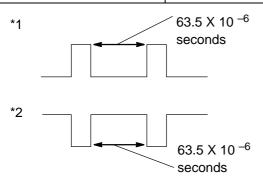
TERMINALS OF ECU

1. DISPLAY ECU

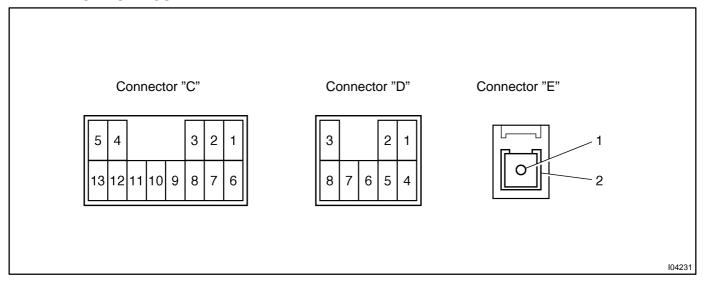


Terminals		Specified value	Problem symptom when open circuit
Symbols	Condition		Problem symptom when short circuit
A1 – Body ground			Screen noise or other types of noise occur.
GND1 – Body ground	Constant	Continuity	LEXUS navigation system is normal.
A2 – A1	Ignition switch ACC or ON	10 – 14 V	
MPX1 – GND1	(Using a oscilloscope)	1 V or below	A/C does not operate.
A3 – A1	Leville a socitate ACC as CN	0.01/	LEXUS navigation system does
TX1+ – GND1	Ignition switch ACC or ON	2 – 3 V	not operate.
A4 – A1	Seat belt unfastened	0.5 V or below	Seat belt warning light does not light up.
PBEW – GND1			Seat belt warning light light up.
A5 – A1	Light control switch TAIL (Using a oscilloscope)	10 – 14 V	Panel switch illumination does not light up.
ILL GND1		0.5 V or below	Light control rheostat does not operate.
A6 – A1	Constant	10 – 14 V	LEXUS navigation system does not operate.
+B1 – GND1			Fuse is blown.
A8 – A1	Ignition switch ACC or ON	10 – 14 V	
MPX2 – GND1	(Using a oscilloscope)	1 V or below	A/C system does not operate.
A9 – A1		0.01/	LEXUS navigation system does
TX1GND1	Ignition switch ACC or ON	2-3 V	not operate.
A15 – A1	Light control switch TAIL		Panel switch illumination does not light up.
ILL+ – GND1		10 – 14 V	Fuse is blown. (Panel switch illumination does not light up.)

A16 – A1			LEXUS navigation system does not operate.
ACC – GND1	Ignition switch ACC or ON	10 – 14 V	Fuse is blown. (LEXUS navigation system does not operate.)
B1 – B5			Screen noise or other types of noise occur.
VR – VG	Constant	Continuity	LEXUS navigation system does not operation.
B2 – B5	Display ON		
SYNC – VG	(Using a oscilloscope)	0.5 – 1.3 V *2	Screen is in disorder
B3 – A1			Cellular phone does not operate.
DTX+ – GND1	Ignition switch ACC or ON	2 – 3 V	LEXUS navigation system does not operate.
B4 – A1			LEXUS navigation system does
TX+ – GND1	Ignition switch ACC or ON	2 – 3 V	not operate.
B5 – A1			Screen noise or other types of noise occur.
VG – GND1	Constant	Continuity	LEXUS navigation system is normal.
B6 – B5			Screen color turns to yellow.
B – VG			
B7 – B5	Diagnosis display check screen is	071/ 041/4	Screen color turns to red-purple.
G – VG	white (Using a oscilloscope)	0.7 V ± 0.1 V *1	
B8 – B5			Scroon color turns to light blue
R – VG			Screen color turns to light blue.
B11 – A1			Cellular phone does not operate.
DTX GND1	Ignition switch ACC or ON	2 – 3 V	LEXUS navigation system does not operate.
B12 – A1			Audio system does not operate.
TXGND1	Ignition switch ACC or ON	2 – 3 V	LEXUS navigation system does not operate.

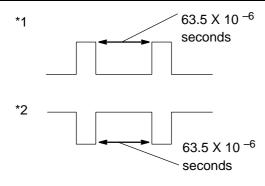


2. NAVIGATION ECU

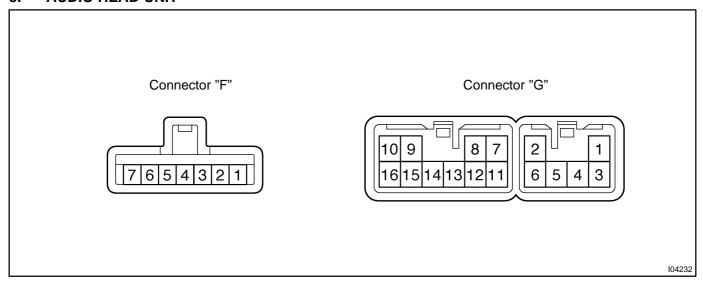


Terminals		Specified value	Problem symptom when open circuit
Symbols	Condition		Problem symptom when short circuit
C1 – C8	Radio switch ON	5 – 7 V	Driver's side speaker does not
AUI+ – GND	Radio Switch ON	3-7 V	sound.
C2 – C8	Radio switch ON	5 – 7 V	Driver's side speaker does not
AUO+ – GND	Radio Switch ON	5 - 7 V	sound.
C5 – C8	Constant	10 – 14 V	The set route can not be memorized. (The route disappears by turning the ignition switch OFF.)
+B – GND			Fuse is blown.
C6 – C8	Dadia autok ON	5 – 7 V	Driver's side speaker does not
AUI GND	Radio switch ON	3-7 V	sound.
C7 – C8	Radio switch ON	5 – 7 V	Driver's side speaker does not
AUOGND	Radio switch ON		sound.
C8 – Body ground	Constant		LEXUS navigation system does not operate.
GND – Body ground		Continuity	LEXUS navigation system is normal.
C12 – C8	Ignition switch ON and rotate driving wheel slowly.	Repeatedly changes from below 1 V to 9 V	Navigation operation is available during driving, or a cursor on pres-
SPD – GND	ing wheel slowly.	V 10 9 V	ent site does not move.
C13 – C8	Ignition switch ACC	10 – 14 V	LEXUS navigation system does not operate.
ACC – GND			Fuse is blown.
D1 – D6	Diagnosis display check screen is	0.71/ . 0.11/11	O-man and a district of the latest
R – VR	white (Using a oscilloscope)	0. 7 V ± 0.1 V *1	Screen color turns to light blue.
D2 – D6	Ignition switch ACC or ON	0.5 – 1.3 V *2	Screen is in disorder.
SYNC - VR	(Using a oscilloscope)		
D3 - C8	Ignition switch ACC or ON	2-3 V	LEXUS navigation system does
TX+ – GND			not operate.

D4 – D6 G – VR	Diagnosis display check screen is	0. 7 V ± 0.1 V *1	Screen color turns to red-purple.
			Screen color turns to yellow.
D5 – D6	white. (Using a oscilloscope)		
B – VR			
D6 – D7	Constant	0 " "	Screen noise or other type of noise occur.
VR – VG		Continuity	LEXUS navigation system does not operate.
D7 – C8	Constant	Continuity	Screen noise or other type of noise occur.
VG – GND			LEXUS navigation system does not operate.
D8 - C8			LEXUS navigation system does
TXGND	Ignition switch ACC or ON	2-3 V	not operate.
E1			
GPS	_		
E2 – Body ground	Constant	0 11 11	
GND – Body ground		Continuity	GPS signal received error



3. AUDIO HEAD UNIT

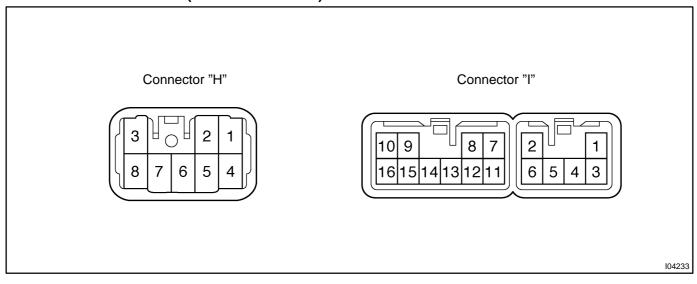


Terminals			Problem symptom when open circuit
Symbols	Condition	Specified value	Problem symptom when short circuit
F1 – G3	Ignition switch ACC or ON	2 – 3 V	LEXUS navigation system does
TX+ – E	Igrition switch ACC of Civ	2-3 V	not operate.
F2 – G3	Ignition quitab ACC or CNI	2 – 3 V	LEXUS navigation system does
TXE	Ignition switch ACC or ON	2-3 V	not operate.
F3 – G3	Dadia autitali ON	40 441/	Antonno do co not outro d
ANT – E	Radio switch ON	10 – 14 V	Antenna does not extend.
F4 – G3	Dadia autitali ON	40 441/	Antonno do co not outro d
ANTA – E	Radio switch ON	10 – 14 V	Antenna does not extend.
F5 – G3	Partie switch ON	10 – 14 V	Antenna does not extend.
ANTB – E	Radio switch ON		
G1 – G3		10 – 14 V	Audio system does not sound.
ACC – E	Ignition switch ACC or ON		
G2 – Body ground	Constant	Continuity	Audio system is normal.
E2 – Body ground	Constant		
G3 – Body ground	Constant	Continuity	Audia avatam ia narmal
E – Body ground	Constant	Continuity	Audio system is normal.
G4 – G3	Constant	40 441/	Audio system does not operate.
ILL+ – E	Constant	10 – 14 V	Fuse is blown.
G5 – G3	Light control switch TAIL	10 – 14 V	Audio head unit illumination does not light up.
B – E			Fuse is blown.
G6 – G3	Light control switch TAIL	10 – 14 V	Audio head unit illumination does not light up.
ILLE		0.5 V or below	Light control rheostat does not operate.
G7			Sound from right side speaker is
R+	_		small.

DIAGNOSTICS - LEXUS NAVIGATION SYSTEM

		1	
G8			Sound from left side speaker is
L+	_	_	small.
G9 – G3			Audio system does not sound.
ACCO – E	Radio switch ON	10 – 14 V	
G11			Sound from right side speaker is
R-	_	_	small.
G12			Sound from left side speaker is
L-	_	_	small.
G14 – G3			Pop sound etc., during key opera-
MUTE – E	Radio switch ON	5 V	tion.
G15 – G3			Audio system does not operate.
ATXE	Ignition switch ACC or ON	2-3 V	LEXUS navigation system does
AIXE			not operate.
G16 – G3	Lauritian assitate ACC as CNI	2 2 2 4	LEXUS navigation system does
ATX+ – E	Ignition switch ACC or ON	2 – 3 V	not operate.

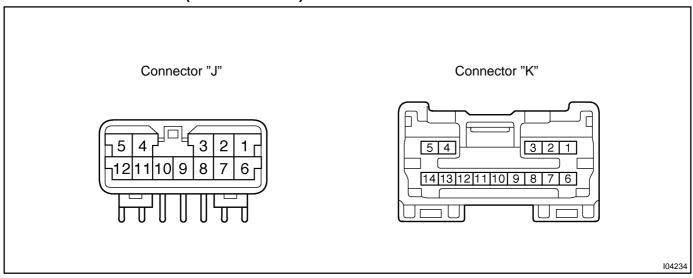
4. POWER AMPLIFIER (NAKAMICHI made)



Terminals	Condition	Specified value	Problem symptom when open circuit
Symbols	Condition		Problem symptom when short circuit
H1 – I13			Audio system does not operate.
TXM+ – E	Ignition switch ACC or ON	2 – 3 V	LEXUS navigation system does not operate.
H2			Sound from right side speaker is
CDR+	_	-	small.
H3			Sound from left side speaker is
CDL+	_	-	small.
H4 – I13			Audio system does not operate.
TXM+ – E	Ignition switch ACC or ON	2 – 3 V	LEXUS navigation system does not operate.
H5	_	-	Sound from right side speaker is
CDR-			small.
H6 – I13		5 V	Pop sound etc
CDMT – E	CD auto changer operation		
H7 – Body ground		Continuity	Audio system is normal.
SGND – Body ground	Constant		
H8			Sound from left side speaker is
CDL-	_	_	small.
I1 – I13			Rear RH speaker does not sound.
SRR+ – E	Radio switch ON	5 – 7 V	Rear speaker does not sound.
12 – 113			Rear LH speaker does not sound.
SRL+-E	Radio switch ON	5 – 7 V	Rear speaker does not sound.
I3 – I13			Rear RH speaker does not sound.
SRRE	Radio switch ON	5 – 7 V	Rear speaker does not sound.
I4 – I13	Radio switch ON	5 – 7 V	Woofer does not sound.
WF+ – E	Radio switch ON	5 – 7 V	Woofer does not sound.
I5 – I13			
WFE	Radio switch ON	5 – 7 V	Woofer does not sound.

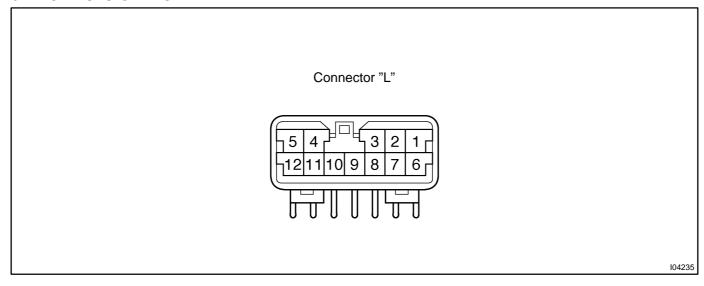
I6 – I13	Radio switch ON		Rear LH speaker does not sound.
SRLE		5 – 7 V	Rear speaker does not sound.
I7 – I13			Rear RH speaker does not sound.
SFR+-E	Radio switch ON	5 – 7 V	Rear speaker does not sound.
I8 – I13		,	Rear LH speaker does not sound.
SFL+-E	Radio switch ON	5 – 7 V	Rear speaker does not sound.
I10 – I13	_		Audio system does not sound.
+B – E	Constant	10 – 14 V	Fuse is blown.
l11 – l13	Radio switch ON		Rear RH speaker does not sound.
SFRE		5 – 7 V	Rear speaker does not sound.
l12 – l13			Rear LH speaker does not sound.
SFLE	Radio switch ON	5 – 7 V	Rear speaker does not sound.
I13 – Body ground			
E – Body ground	Constant	Continuity	Audio system is normal.
I14 – I13			
TLMT – E	Cellular phone system is switched.	5 V	Pop sound.
I16 – I13	LEXUS navigation system is		Pop sound.
NVMT – E	switched.	5 V	No navigation voice.

5. POWER AMPLIFIER (PIONEER made)



Terminals	Condition	Specified value	Problem symptom when open circuit
Symbols			Problem symptom when short circuit
J1			
R+	_	_	RH side speaker does not sound.
J2			
L+	_	_	LH side speaker does not sound.
J3 – Body ground		0 " "	Audio system is normal.
SGND – Body ground	Constant	Continuity	
J4 – J3	Radio switch ON	5 V	Pop sound etc
MUTE - SGND			Audio system does not sound.
J6		-	RH side speaker does not sound.
R-	_		
J7		-	LH side speaker does not sound.
L-	_		
J9 – J3			Audio system does not sound.
BUSSGND	Ignition switch ACC or ON	2 – 3 V	LEXUS navigation system does not sound.
J10 – J3		2 – 3 V	Audio system does not sound.
BUS+ - SGND	Ignition switch ACC or ON		LEXUS navigation system does not sound.
J12 – J3			
ACC – SGND	Ignition switch ACC or ON	10– 14 V	Audio system does not sound.

6. CD AUTO CHANGER



Terminals		0.75.1	Problem symptom when open circuit
Symbols	Condition	Specified value	Problem symptom when short circuit
L1	_	_	Sound from right side speaker is
CDR+			small.
L2 CDL+	_	-	Sound from left side speaker is small.
L3 – Body ground			
SGND – Body gound	Constant	Continuity	Audio system does not sound.
L4 – L8			Pop sound etc
MUTE - SGND	Radio switch ON	5 V	Audio system does not sound.
L5 – L8	Constant	10 – 14 V	CD auto changer does not operate.
+B – SGND			Fuse is blown.
L6			Sound from right side speaker is
CDR-	-	_	small.
L7	_	_	Sound from left side speaker is
CDL-			small.
L8 – Body ground	Constant	Continuity	Audio system is normal.
GND – Body gound	Constant	Continuity	Addio System is normal.
L9 – L8			CD auto changer does not operate.
TXM+ – GND	Ignition switch ACC or ON	2 – 3 V	LEXUS navigation system does not operate.
L10 – L8			CD auto changer does not operate.
TXM+ – GND	Ignition switch ACC or ON	2 – 3 V	LEXUS navigation system does not operate.
L12 – L8	Ignition switch ACC or ON	10 – 14 V	CD auto changer does not operate.
ACC – GND			Fuse is blown.