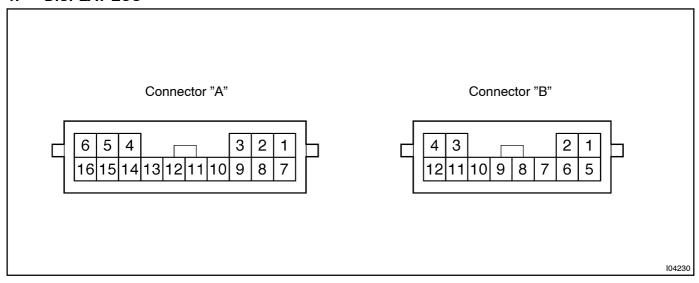
DI28R-02

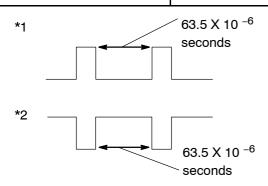
TERMINALS OF ECU

1. DISPLAY ECU

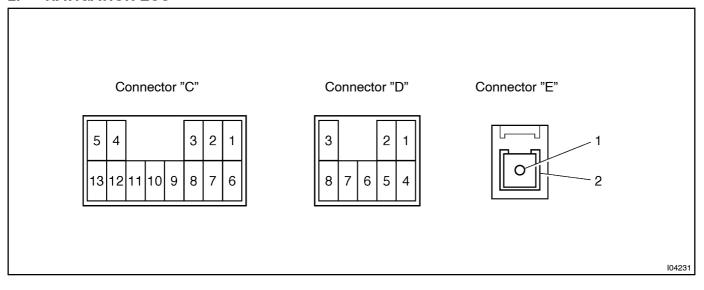


Terminals	0.000	Our elffe de volus	Problem symptom when open circuit is detected.
Symbols	Condition	Specified value	Problem symptom when short circuit is detected.
A1 – Body ground			Screen noise or other types of noise occur.
GND1 – Body ground	Constant	Continuity	LEXUS navigation system is normal.
A2 – A1	Ignition switch ACC or ON	10 – 14 V	A/O de constante
MPX1 - GND1	(Using an oscilloscope)	1 V or below	A/C does not operate.
A3 – A1 TX1+ – GND1	Ignition switch ACC or ON	2 – 3 V	LEXUS navigation system does 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 lights up.
A5 – A1	Light control switch TAIL (Using an 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 an oscilloscope)	1 V or below	A/C system does not operate.
A9 – A1	Ignition quitab ACC or CN	0.01/	LEXUS navigation system does
TX1 GND1	Ignition switch ACC or ON	2 – 3 V	not operate.
A15 – A1			Panel switch illumination does not light up.
ILL+ – GND1	Light control switch TAIL	10 – 14 V	Fuse is blown. (Panel switch illumination does not light up.)

			_
A16 – A1	Ignition switch ACC or ON		LEXUS navigation system does not operate.
ACC - GND1		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 operate.
B2 – B5	Display ON		
SYNC - VG	(Using an 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	Ignition switch ACC or ON		LEXUS navigation system does
TX+ - GND1		2 – 3 V	not operate.
B5 – A1	Constant		Screen noise or other types of noise occur.
VG – GND1		Continuity	LEXUS navigation system is normal.
B6 – B5			Screen color turns to yellow.
B – VG			
B7 – B5	Diagnosis display check screen is	0.71/ . 0.41/#4	Screen color turns to red-purple.
G – VG	white. (Using an oscilloscope)	0.7 V ± 0.1 V *1	
B8 – B5	(g		Canana anlandomen de limbilita
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.
TX GND1	Ignition switch ACC or ON	2 – 3 V	LEXUS navigation system does not operate.

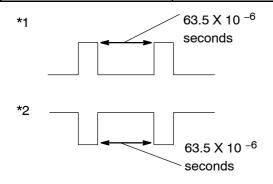


2. NAVIGATION ECU

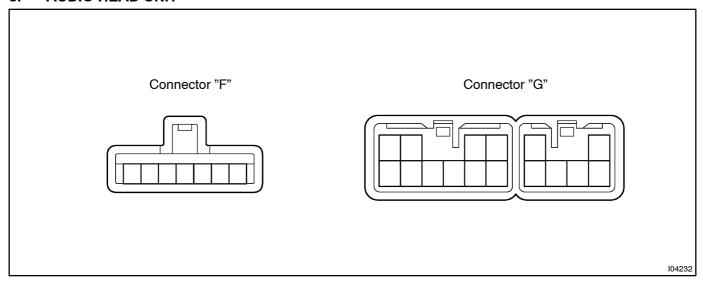


Terminals	Qualities.	Specified value	Problem symptom when open circuit
Symbols	Condition		Problem symptom when short circuit
C1 – C8	Dadia aviitala ON		Driver's side speaker does not
AUI+ - GND1	Radio switch ON	5 – 7 V	sound.
C2 – C8	Radio switch ON	,,	Driver's side speaker does not
AUO+ - GND1	Radio 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 - GND1			Fuse is blown.
C6 – C8	D !! !! ON	5 – 7 V	Driver's side speaker does not sound.
AUI GND1	Radio switch ON		
C7 – C8	Participation ON	5 – 7 V	Driver's side speaker does not sound.
AUO GND1	Radio switch ON		
C8 – Body ground	Constant	Continuity	LEXUS navigation system does not operate.
GND1 – Body ground			LEXUS navigation system is normal.
C12 - C8	Ignition switch ON and driving	Repeatedly changes from below 1	Navigation operation is available
SPD - GND1	wheel rotated slowly.	V to 9 V	during driving, or a cursor on present site does not move.
C13 – C8	Ignition switch ACC	10 – 14 V	LEXUS navigation system does not operate.
ACC - GND1			Fuse is blown.
D1 – D6	Diagnosis display check screen is		
R – VR	white. (Using an oscilloscope)	0. 7 V ± 0.1 V *1	Screen color turns to light blue.
D2 – D6	Ignition switch ACC or ON	0.5.4.53445	Screen is in disorder.
SYNC - VR	(Using an oscilloscope)	0.5 – 1.3 V *2	
D3 – C8			LEXUS navigation system does
TX+ - GND1	Ignition switch ACC or ON	2 – 3 V	not operate.

D4 – D6	Diagnosis display check screen is white. (Using an oscilloscope)	0.7 V ± 0.1 V*1	Screen color turns to red-purple.
G – VR			
D5 – D6			Screen color turns to yellow.
B – VR			
D6 – D7	Constant	Continuity	Screen noise or other types of noise occur.
VR – VG			LEXUS navigation system does not operate.
D7 - C8	Constant	Continuity	Screen noise or other types of noise occur.
VG – GND1			LEXUS navigation system does not operate.
D8 - C8			LEXUS navigation system does
TX GND1	Ignition switch ACC or ON	2 – 3 V	not operate.
E1			
GPS		-	-
E2 – Body ground	Constant		
GND1 – Body ground		Continuity	GPS signal reception error



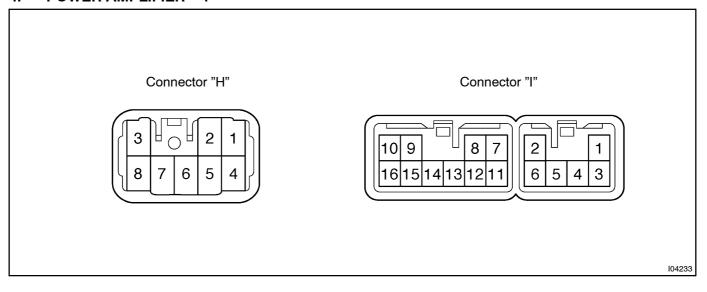
3. AUDIO HEAD UNIT



Terminals	Out Hillian	on Specified value	Problem symptom when open circuit
Symbols	Condition		Problem symptom when short circuit
F1 - G2	Ignition switch ACC or ON	2 – 3 V	LEXUS navigation system does
TX GND			not operate.
F2 – G2	Ignition switch ACC or ON	2 – 3 V	LEXUS navigation system does
TX+ – GND			not operate.
F3 – G2	Radio switch ON	10 – 14 V	Antenna does not extend.
ANTB – GND	1.000.000.000.000.000		,
F4 – G2	Radio switch ON	10 – 14 V	Antenna does not extend.
ANTA – GND	Tiddio Switch Oly	10 - 14 V	Antenna does not extend.
F5 – G2	Radio switch ON	10 – 14 V	Antenna does not extend.
ANT – GND			
G1 – G2	Ignition switch ACC or ON	10 – 14 V	Audio system does not sound.
ACC - GND			
G2 – Body ground	20001001	O antino site s	Andia analam isanamal
GND – Body ground	Constant	Continuity	Audio system is normal.
G4 – G2	Light control switch TAIL	10 – 14 V	Audio head unit illumination does not light up.
B – GND			Fuse is blown.
G5 – G2			Audio system does not operate.
ILL+ - GND	Constant	10 – 14 V	Fuse is blown.
G6 – G2	Light control switch TAIL	10 – 14 V	Audio head unit illumination does not light up.
ILL GND		0.5 V or below	Light control rheostat does not operate.
G7	-		Sound from right side speaker is
R+		-	small.
G8			Sound from left side speaker is
L+	-	-	small.

G9 – G2			
ACC - GND	Radio switch ON	10 – 14 V	Audio system does not sound.
G11			Sound from right side speaker is
R-	_	-	small.
G12			Sound from left side speaker is
L-	-	-	small.
G14 – G2	- II II OII		Pop sound etc., during key opera-
MUTE - GND	Radio switch ON	5 V	tion.
G15 – G2			Audio system does not operate.
BUS GND	Ignition switch ACC or ON	2 – 3 V	LEXUS navigation system does not operate.
G16 – G2		0.01/	LEXUS navigation system does
BUS+ - GND	Ignition switch ACC or ON	2 – 3 V	not operate.

4. POWER AMPLIFIER - 1

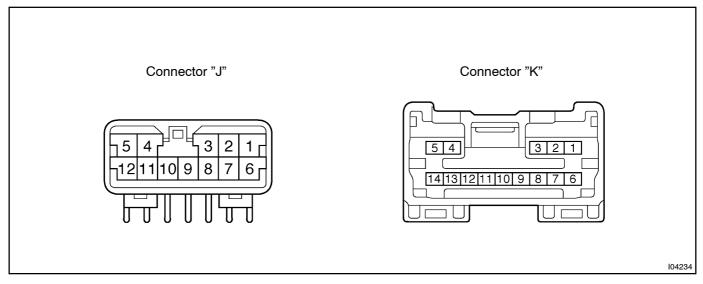


Terminals		Specified value	Problem symptom when open circuit
Symbols	Condition		Problem symptom when short circuit
H1 – l13			Audio system does not operate.
TXM+ - E	Ignition switch ACC or ON	2 - 3 V	LEXUS navigation system does not operate.
H2			Sound from right side speaker is
CDR+	_	_	small.
H3			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		On attack to	A discondensity of the second
SGND – Body ground	Constant	Continuity	Audio system is normal.
H8			Sound from left side speaker is
CDL-	_	-	small.
l1 – l13		>/	Rear RH speaker does not sound.
SRR+ - E	Radio switch ON	5 – 7 V	Rear speaker does not sound.
l2 – l13		,,	Rear LH speaker does not sound.
SRL+ - E	Radio switch ON	5 – 7 V	Rear speaker does not sound.
l3 – l13		,,	Rear RH speaker does not sound.
SRRE	Radio switch ON	5 – 7 V	Rear speaker does not sound.
l4 – l13	Radio switch ON	5 – 7 V	Woofer does not sound.
WF+ - E	Radio switch ON	5 – 7 V	Woofer does not sound.
l5 – l13	Radio switch ON		
WFE		5 – 7 V	Woofer does not sound.

LEXUS GS300 (RM588E)

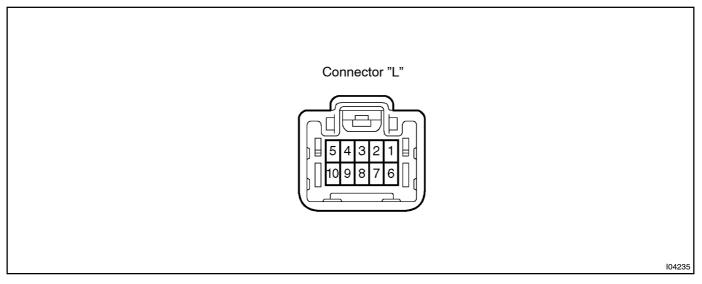
	T		T
l6 – l13	David and Hali ON	5 71	Rear LH speaker does not sound.
SRLE	Radio switch ON	5 – 7 V	Rear speaker does not sound.
l7 – l13	D !: '! ON		Rear RH speaker does not sound.
SFR+ - E	Radio switch ON	5 – 7 V	Rear speaker does not sound.
l8 – l13			Rear LH speaker does not sound.
SFL+ - E	Radio switch ON	5 – 7 V	Rear speaker does not sound.
l10 – l13			Audio system does not sound.
+B – E	Constant	10 – 14 V	Fuse is blown.
l11 – l13	D 11 11 011	,,	Rear RH speaker does not sound.
SFRE	Radio switch ON	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.
l14 – l13			
TLMT – E	Cellular phone system is switched.	5 V	Pop sound.

5. POWER AMPLIFIER - 2



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

6. CD AUTO CHANGER



Terminals	Condition	Specified value	Problem symptom when open circuit is detected.
Symbols			Problem symptom when short circuit is detected.
L1	_	_	Sound from right side speaker is
CDR+			small.
L2	_	_	Sound from left side speaker is
CDL+	_	_	small.
L3 – Body ground	Constant	Continuity	Audio system does not sound.
SGND - Body gound	Constant	Continuity	Audio system does not sound.
L3 – L8	Dadia avitala ON	F.V.	Pop sound etc
MUTE - SGND	Radio switch ON	5 V	Audio system does not sound.
L4 – L8	Ignition switch ACC or ON	2 - 3 V	CD auto changer does not operate.
TXM+ - GND			LEXUS navigation system does not operate.
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		0 " "	
GND – Body gound	Constant	Continuity	Audio system is normal.
L9 – L8		2 - 3 V	CD auto changer does not operate.
TXM GND	Ignition switch ACC or ON		LEXUS navigation system does not operate.
L10 – L8	Ignition switch ACC or ON	10 – 14 V	CD auto changer does not operate.
ACC - GND			Fuse is blown.