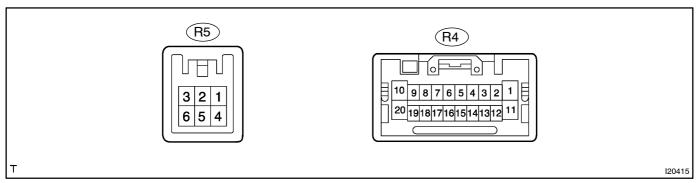
DI8R3-02

TERMINALS OF ECU

1. RADIO AND PLAYER



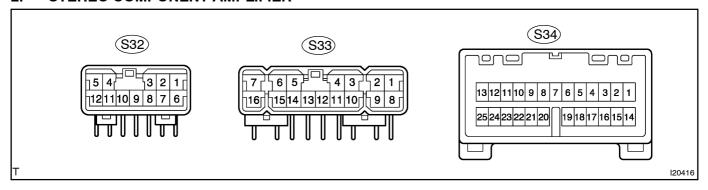
Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
R5-2 (ATX+)	G(*1) Y(*2)	See "Service Check Mode"	_
R5-3 (TXS+)	G	See "Service Check Mode"	_
R5-5 (ATX-)	R(*1) B(*2)	See "Service Check Mode"	_
R5-6 (TXS-)	R	See "Service Check Mode"	-
R4-1 - R4-20 (+B - GND)	L-Y - BR	Constant	10 – 14V
R5-2 - R4-20 (ATX+ - GND)	G – BR (*1) Y – BR (*2)	Light control switch TAIL or HEAD	10 – 14V
R4-5 (TX+)	G	See "Service Check Mode"	-
R4-7 - R4-20 (MUTE - GND)	Y – BR	Switching CD player ↔ Cassette player	Below 3.5V
R4-8 - R4-20 (R+ - GND)	B – BR	Audio system is sounding	A waveform synchro- nized with sound is out- put
R4-9 - R4-20 (L+ - GND)	R – BR	Audio system is sounding	A waveform synchro- nized with sound is out- put
R4–10 – Body ground (SGND – Body ground)	-	Constant	Below 1V
R4-11 - R4-20	00 00	Ignition switch OFF	Below 1V
(ACC - GND)	GR – BR	Ignition switch ACC or ON	10 – 14V
R4-12 - R4-20 (ILL GND)	W-G - B-R	Headlight switch ON, Automatic light sensor ON and Tail cancel switch OFF simultaneously	10 – 14V
R4-15 (TX-)	R	See "Service Check Mode"	_
R4-18 - R4-20 (R GND)	W – BR	Audio system is sounding	A waveform synchro- nized with sound is out- put
R4-19 - R4-20	G – BR	Audio system is sounding	A waveform synchro- nized with sound is out-
(L GND)			put

Terminal No. (Symbols)	Problem symptom when open circuit is detected.	Problem symptom when short circuit is detected.
R5-2 (ATX+)	Navigation system does not operate.	System does not operate.
R5-3 (TXS+)	Steering pad switch does not operate.	System does not operate.
R5-5 (ATX-)	Navigation system does not operate.	System does not operate.

R5-6 (TXS-)	Steering pad switch does not operate.	System does not operate.	
R4-1 - R4-20 (+B - GND)	Radio and player does not operate.	Fuse is blown.	
R5-2 - R4-20 (ATX+ - GND)	Radio and player illumination does not light up	Fuse is blown.	
R4-5 (TX+)	Navigation system does not operate.	System does not operate.	
R4-7 - R4-20 (MUTE - GND)	Pop sound etc.	Speaker does not sound.	
R4-8 - R4-20 (R+ - GND)	Sound from right side speaker is small.	Sound from right side speaker is small.	
R4-9 - R4-20 (L+ - GND)	Sound from left side speaker is small.	Sound from left side speaker is small.	
R4-10 - Body ground (SGND - Body ground)	Audio system is normal.	Audio system is normal.	
R4-11 - R4-20 (ACC - GND)	Navigation system does not operate.	Fuse is blown.	
R4-12 - R4-20 (ILL GND)	Radio and player illumination does not light up.	Light control rheostat does not operate.	
R4-15 (TX-)	Navigation system does not operate.	System does not operate.	
R4-18 - R4-20 (R GND)	Sound from right side speaker is small.	Sound from right side speaker is small.	
R4-19 - R4-20 (L GND)	Sound from left side speaker is small.	Sound from left side speaker is small.	
R4-20 – Body ground (GND – Body ground)	System does not operate.	Audio system is normal.	

(*1): LHD (*2): RHD

2. STEREO COMPONENT AMPLIFIER



Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
S32-1 - S34-13 (MR+ - GND)	B – W–B	Audio system is sounding (Radio)	A waveform synchro- nized with sound is out- put
S32-2 - S34-13 (ML+ - GND)	R – W–B	Audio system is sounding (Radio)	A waveform synchro- nized with sound is out- put
S32-4 - S34-13 (MMUT - GND)	Y – W–B	Radio switch ON	Below 3.5V
S32-6 - S34-13 (MR GND)	W – W–B	Audio system is sounding (Radio)	A waveform synchro- nized with sound is out- put
S32-7 - S34-13 (ML GND)	G – W–B	Audio system is sounding (Radio)	A waveform synchro- nized with sound is out- put
S32-9 (RTX-)	LG	See "Service Check Mode"	_
S32-10 (RTX+)	L	See "Service Check Mode"	-
S34-1 - S34-13 (FR+ - GND)	LG - W-B (*1, *2, *4) G - W - B (*2, *3)	Audio system is sounding	A waveform synchro- nized with sound is out- put
S34-2 - S34-13 (FL+ - GND)	P – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S34-3 - S34-13 (RR+ - GND)	W – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S34-4 - S34-13 (RL+ - GND)	B – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S34-5 - S34-13 (WFR+ - GND)	Y – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S34-6 - S34-13 (WFL+ - GND)	LG – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S34-7 - S34-13 (+B - GND)	L-R - W-B	Constant	10 – 14V
S34-8 - S34-13 (FR GND)	L - W-B (*1, *2, *4) G - B - W - B (*2, *3)	Audio system is sounding	A waveform synchro- nized with sound is out- put

S34-9 - S34-13 (FL GND)	V – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S34-10 - S34-13 (RR GND)	R – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S34-11 - S34-13 (RL GND)	Y – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S34–12 – Body ground (E – Body ground)	W-B - Body ground	Constant	Below 1V
S34-13 - Body ground (GND - Body ground)	W-B - Body ground	Constant	Below 1V
S34-14 - S34-13 (WFR GND)	B – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S34-15 - S34-13 (WFL GND)	L – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S34-16 - S34-13 (+B2 - GND)	L-R - W-B	Constant	10 – 14V
S33-1 - S34-13 (FR+ - GND)	G-W - W-B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S33-2 - S34-13 (FL+ - GND)	V – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S33-3 - S34-13 (TMUT - GND)	LG-R - W-B	Cellular mobile telephone is being used	Below 3.5 V
S33-4 (TX+)	L	See "Service Check Mode"	-
S33-5 (MTX+)	G	See "Service Check Mode"	-
S33-9 - S34-13 (N-MU - GND)	G-R - W-B	Navigation voice sounding	Below 3.5 V
S33-11 - S34-13 (R+ - GND)	B – W–B	CD player or cassette player is sounding	A waveform synchro- nized with sound is out- put
S33-12 - S34-13 (L+ - GND)	R – W–B	CD player or cassette player is sounding	A waveform synchro- nized with sound is out- put
S33-13 - S34-13 (SPD - GND)	V-W - W-B	See "Vehicle Signal Check Mode"	-
S33-14 - S34-13 (FR GND)	BR – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S33-15 - S34-13 (FL GND)	P – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S33-17 (TX-)	LG	See "Service Check Mode"	
S33-18 (MTX-)	R	See "Service Check Mode"	
S33-20 - S34-13	OD 144 D	Ignition switch OFF	Below 1V
(ACC - GND)	GR – W–B	Ignition switch ACC or ON	10 – 14V

S33-21 - S34-13 (MUTE - GND)	Y – W–B	Switching CD player ↔ Cassette player	Below 3.5 V
S33-23 - S34-13 (R GND)	W – W–B	CD player or cassette player is sounding	A waveform synchro- nized with sound is out- put
S33-24 - S34-13 (L GND)	G – W–B	CD player or cassette player is sounding	A waveform synchro- nized with sound is out- put
S33-25 - S34-13 (SPDO - GND)	Y-R - W-B	See "Vehicle Signal Check Mode"	-

(SPDO - GND)	1-I1 - W-D	dee Verlicle Signal Offeck Mode		_	
Terminal No. (Symbols)	Prob	olem system when open circuit is detect	ed. Problem symptom when	n short circuit is detected.	
S32-1 - S34-13 (MR+ - GND)		d from right side speaker is small.	Sound from right side s	Sound from right side speaker is small.	
S32-2 - S34-13 (ML+ - GND)		d from left side speaker is small.	Sound from left side spo	Sound from left side speaker is small.	
S32-4 - S34-13 (MMUT - GND)	Pop s	sound etc.	Speaker does not soun	d.	
S32-6 - S34-13 (MR GND)	Soun	d from right side speaker is small.	Sound from right side s	peaker is small.	
S32-7 - S34-13 (ML GND)	Soun	d from left side speaker is small.	Sound from left side spo	eaker is small.	
S32-9 (RTX-)	Navig	gation system does not operate.	Navigation system does	s not operate.	
S32-10 (RTX+)	Navig	gation system does not operate.	Navigation system does	s not operate.	
S34-1 - S34-13 (FR+ - GND)	Front	right side speaker does not sound.	*5: Front right side spea *6: All speakers does no		
S34-2 - S34-13 (FL+ - GND)	Front	left side speaker does not sound.	*5: Front left side speak *6: All speakers does no		
S34-3 - S34-13 (RR+ - GND)	Rear	right side speaker does not sound.	*5: Rear right side spea *6: All speakers does no		
S34-4 - S34-13 (RL+ - GND)	Rear	left side speaker does not sound.	*5: Rear left side speak *6: All speakers does no		
S34-5 - S34-13 (WFR+ - GND)		oofer does not sound. ond from woofer is small.	*5, *6: Woofer does not	sound.	
S34-6 - S34-13 (WFL+ - GND)		oofer does not sound. ond from woofer is small.	*5, *6: Woofer does not	sound.	
S34-7 - S34-13 (+B - GND)	If terr	minal 16 is disconnected, system does rion.	Fuse is blown.		
S34-8 - S34-13 (FR GND)	Front	right side speaker does not sound.	*5: Audio system is nor *6: All speakers does no		
S34-9 - S34-13 (FL GND)	Front	left side speaker does not sound.	*5: Front left side speak *6: All speakers does no		
S34-10 - S34-13 (RR GND)	Rear	right side speaker does not sound.	*5: Rear right side spea *6: All speakers does no		
S34-11 - S34-13 (RL GND)	Rear	left side speaker does not sound.	*5: Rear left side speak *6: All speakers does no		
S34–12 – Body ground (GND – Body ground)		minal 13 is disconnected, system does rion.	Audio system is normal		
S34–13 – Body ground (GND – Body ground)		minal 12 is disconnected, system does rion.	Audio system is normal		
· · · · · · · · · · · · · · · · · · ·					

S34-14 - S34-13	*5: -	*5: -
(WFR GND)	*6: Sound from woofer is small.	*6: All speakers does not sound.
S34-15 - S34-13	*5: -	*5: -
(WFL GND)	*6: Sound from woofer is small.	*6: All speakers does not sound.
S34-16 - S34-13 (+B2 - GND)	If terminal 7 is disconnected, system does not function.	Fuse is blown.
S33-1 - S34-13 (FR+ - GND)	Right side tweeter speaker does not sound.	*5: Right side tweeter speaker does not sound. *6: All speakers does not sound.
S33-2 - S34-13 (FL+ - GND)	Left side tweeter speaker does not sound.	*5: Left side tweeter speaker does not sound. *6: All speakers does not sound.
S33-3 - S34-13 (TMUT - GND)	Mute cannot be activated during telephone call.	All speakers does not sound.
S33-4 (TX+)	Navigation system does not operate.	System does not operate.
S33-5 (MTX+)	Audio rear A/C control switch does not operate.	System does not operate.
S33-9 - S34-13 (N-MU - GND)	Pop sound etc.	Front right speaker does not sound.
S33-11 - S34-13 (R+ - GND)	Sound from right side speaker is small.	Sound from right side speaker is small.
S33-12 - S34-13 (L+ - GND)	Sound from left side speaker is small.	Sound from left side speaker is small.
S33-13 - S34-13 (SPD - GND)	Navigation operation is available during, or a cursor on present site does not move. (ASL does not operate)	Navigation operation is available during, or a cursor on present site does not move. (ASL does not operate)
S33-14 - S34-13 (FR GND)	Right side tweeter speaker does not sound.	*5: Audio system is normal. *6: All speakers do not sound.
S33-15 - S34-13 (FL GND)	Left side tweeter speaker does not sound.	*5: Audio system is normal. *6: All speakers do not sound.
S33-17 (TX-)	Navigation system does not operate.	System does not operate.
S33-18 (MTX-)	Does not operate.	System does not operate.
S33-20 - S34-13 (ACC - GND)	Audio & rear A/C control switch does not sound.	Fuse is blown.
S33-21 - S34-13 (MUTE - GND)	Pop sound etc.	Audio system does not sound.
S33-23 - S34-13 (R GND)	Sound from right side speaker is small.	Sound from right side speaker is small.
S33-24 - S34-13 (L GND)	Sound from left side speaker is small.	Sound from left side speaker is small.
S33-25 - S34-13 (SPDO - GND)	Navigation operation is available during, or a cursor on present site does not move. (ASL does not operate)	Navigation operation is available during, or a cursor on present site does not move. (ASL does not operate)

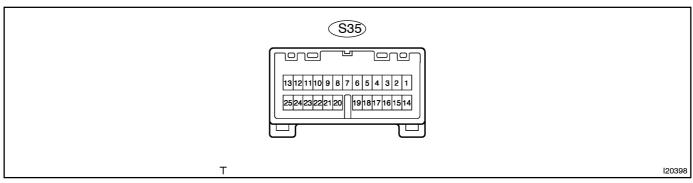
*1: LHD *2: RHD

*3: w/ LEXUS Navigation System
*4: w/o LEXUS Navigation System

*5: Mark Levinson

*6: Pioneer

3. STEREO COMPONENT TUNER



Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
S35-1 - S35-25 (B - GND)	L-Y - W-B	Constant	10 – 14V
S35-2 - S35-25 (SG - GND)	-	Constant	Below 1V
S35-3 - S35-25 (R+ - GND)	B – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S35-4 - S35-25 (L+ - GND)	R – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S35-8 (ATX+)	L	See "Service check Mode"	-
S35-9 (TXS+)	G	See "Service check Mode"	-
S35-11 - S35-25 (MUTE - GND)	Y – W–B	Switching AM switch ↔ FM switch	Below 3.5V
S35-14 - S35-25		Ignition switch OFF	Below 1V
(ACC – GND)	GR – W–B	Ignition switch ACC or OFF	10 – 14V
S35-16 - S35-25 (R GND)	W – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S35-17 - S35-25 (L GND)	G – W–B	Audio system is sounding	A waveform synchro- nized with sound is out- put
S35-20 (ATX+)	LG	See "Service check Mode"	-
S35-21 (TXS-)	R	See "Service check Mode"	-
S35–25 – Body ground (GND – Body ground)	W-B – Body ground	Constant	Below 1V

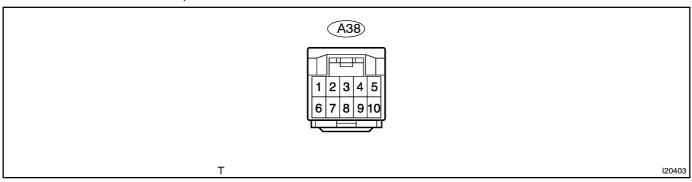
Terminal No. (symbols)	Problem symptom when open circuit is detected.	Problem symptom when short circuit is detected.
S35-1 - S35-25 (B - GND)	Stereo component tuner	Fuse is blown.
S35-2 - S35-25 (SG - GND)	Audio system is normal.	Audio system is normal.
S35-3 - S35-25 (R+ - GND)	Sound from right side speaker is small.	Sound from right side speaker is small.
S35-4 - S35-25 (L+ - GND)	Sound from left side speaker is small.	Sound from left side speaker is small.
S35-8 (ATX+)	Navigation system does not operate.	System does not operate.
S35-9 (TXS+)	Navigation system does not operate.	System does not operate.

DIAGNOSTICS - AUDIO SYSTEM

S35-11 - S35-25 (MUTE - GND)	Pop sound ETC.	Does not sound.
S35-14 - S35-25 (ACC - GND)	Stereo component tuner does not operate.	Fuse is blown.
S35-16 - S35-25 (R GND)	Sound from right side speaker is small.	Sound from right side speaker is small.
S35-17 - S35-25 (L GND)	Sound from left side speaker is small.	Sound from left side speaker is small.
S35-20(ATX-)	Navigation system does not operate.	System does not operate.
S35-21 (TXS-)	Navigation system does not operate.	System does not operate.
S35–25 – Body ground (GND – Body ground)	Stereo component tuner does not operate.	Audio system is normal.

(*1): LHD (*2): RHD

4. AUDIO AND REAR A/C CONTROL SWITCH



Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
A38–1 – A38–10 (TX+ – GND)	G – W–B	Constant	10 – 14V
A38-1 (TX+)	G	See "Service Check Mode"	-
A38–10 – Body ground (GND – Body ground)	W-B - Body ground	Constant	Below 1V
A38-9 - A38-10		Ignition switch OFF	Below 1V
(ACC – GND)	GR – W–B	Ignition switch ACC or ON	10 – 14V
A38-6 - A38-10		Light control switch OFF	Below 1V
(TX GND)	R – W–B	Light control switch TAIL or HEAD	10 – 14V
A38-7 - A38-10 (ILL GND)	W-B - W-B	Rear center arm-rest is closing. (rear center arm-rest courtesy switch ON)	Below 3V
A38-6 (TX-)	R	See "Service Check Mode"	-

Terminal No. (Symbols)	Problem symptom when open circuit is detected.	Problem symptom when short circuit is detected.
A38-1 - A38-10 (TX+ - GND)	Audio and rear A/C control switch does not operate.	Fuse is blown.
A38-1 (TX+)	Audio and rear A/C control switch does not operate.	System does not operate.
Audio and rear A/C control switch does not operate.	Audio and rear A/C control switch does not operate.	-
A38-9 - A38-10 (ACC - GND)	Audio and rear A/C control switch does not operate.	Fuse is blown.
A38-6 - A38-10 (TX GND)	Rear seat control switch illumination does not light up.	Rear seat control switch illumination does not light up.
A38-7 - A38-10 (ILL GND)	Audio and rear A/C control does not displayed.	Audio and rear A/C control switch illumination does not light up.
A38 – 6 (TX–)	Audio and rear control switch does not operate.	System does not operate.