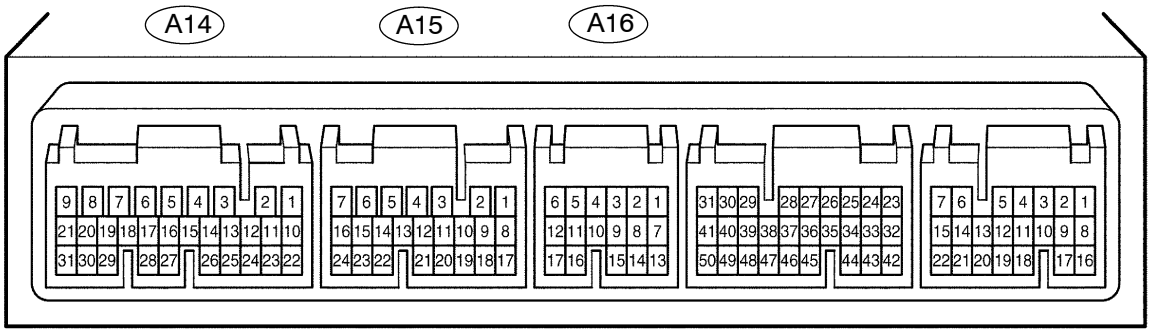
DI8BJ–01

TERMINALS OF ECU

A/C ECU:



P

I20955

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
GND ↔ Body ground (A14–1 ↔ Body ground)	W–B ↔ Body ground	Always	Below 1.0 Ω
MPX+ (A14–2)	GR–B	Multiplex communication circuit	–
ACC ↔ GND (A14–3 ↔ A14–1)	GR ↔ W–B	Turn ignition switch to ACC.	10 – 14 V
MPX– (A14–4)	GR–B	Multiplex communication circuit	–
BLW ↔ GND (A14–5 ↔ A14–1)	LG–B ↔ W–B	Blower fan speed OFF → M2 → HI	Pulse generation
SOL+ ↔ SOL– (A14–6 ↔ A14–7)	P ↔ Y–B	A/C magnetic clutch to ON.	Pulse generation
RDFGR ↔ GND (A14–8 ↔ A14–1)	W ↔ W–B	IG ON. Rear deforgger switch to OFF.	10 – 14 V
		IG ON. Rear deforgger switch to ON.	Below 1.0 V
IG ↔ GND (A14–9 ↔ A14–1)	LG–R ↔ W–B	IG ON.	10 – 14 V
		IG OFF.	0 V
TSDr ↔ GND (A14–19 ↔ A14–1)	L *1 ↔ W–B G–R *2 ↔ W–B	IG ON. Solar sensor subjected to electric light.	0.8 – 4.3 V
		IG ON. Solar sensor cover by a cloth.	Below 0.8 V
TSPa ↔ GND (A14–20 ↔ A14–1)	G–R *1 ↔ W–B L *2 ↔ W–B	IG ON. Solar sensor subjected to electric light.	0.8 – 4.3 V
		IG ON. Solar sensor cover by a cloth.	Below 0.8 V
+B ↔ GND (A14–21 ↔ A14–1)	W–R ↔ W–B	Always	10 – 14 V
DGS ↔ SG–1 *2,*3 (A14–29 ↔ A16–8)	BR–R ↔ Y	After 30 seconds from IG ON and the sensor is exposed to the exhaust gas.	1.0 – 4.5 V
DS1 ↔ GND (A15–1 ↔ A14–1)	V ↔ W–B *1 R–B ↔ W–B *2	IG ON. Blower motor: Operate Mode selector: BI–LEVEL Intelligent swing register: ON	Pulse generation
DS2 ↔ GND (A15–2 ↔ A14–1)	G ↔ W–B *1 B ↔ W–B *2	IG ON. Blower motor: Operate Mode selector: BI–LEVEL Intelligent swing register: ON	Pulse generation

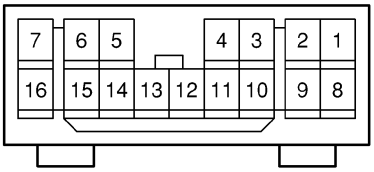
PS1 ↔ GND (A15–3 ↔ A14–1)	R–B ↔ W–B *1 V ↔ W–B *2	IG ON. Blower motor: Operate Mode selector: BI–LEVEL Intelligent swing register: ON	Pulse generation
PS2 ↔ GND (A15–4 ↔ A14–1)	B ↔ W–B *1 G ↔ W–B *2	IG ON. Blower motor: Operate Mode selector: BI–LEVEL Intelligent swing register: ON	Pulse generation
PS3 ↔ GND (A15–5 ↔ A14–1)	P ↔ W–B *1 B–R ↔ W–B *2	IG ON. Blower motor: Operate Mode selector: BI–LEVEL Intelligent swing register: ON	Pulse generation
PS4 ↔ GND (A15–6 ↔ A14–1)	Y–R ↔ W–B *1 G–B ↔ W–B *2	IG ON. Blower motor: Operate Mode selector: BI–LEVEL Intelligent swing register: ON	Pulse generation
DUAL ↔ DrGND (A15–7 ↔ A15–11)	O ↔ LG–R	IG ON. Dual switch ON.	Below 1.0 V
		IG ON. Dual switch OFF.	10 – 14 V
DS3 ↔ GND (A15–8 ↔ A14–1)	B–R ↔ W–B *1 P ↔ W–B *2	IG ON. Blower motor: Operate Mode selector: BI–LEVEL Intelligent swing register: ON	Pulse generation
DS4 ↔ GND (A15–9 ↔ A14–1)	G–B ↔ W–B *1 Y–R ↔ W–B *2	IG ON. Blower motor: Operate Mode selector: BI–LEVEL Intelligent swing register: ON	Pulse generation
DUIND+ ↔ DUIND– (A15–10 ↔ A15–13)	G–R ↔ B–W	Driver temperature and passenger temperature are different.	5 – 14 V
		Driver temperature and passenger temperature are the same.	Below 1.0 V
S5–2 ↔ SG–5 (A15–15 ↔ A16–12)	V–R ↔ LG	IG ON.	4.5 – 5.5 V
S5–4 ↔ TSRr (A15–16 ↔ A14–30)	GR ↔ W–L	IG ON. Rear solar sensor subjected to electric light.	0.8 – 4.3 V
		IG ON. Rear solar sensor cover by a cloth.	Below 1.0 V
PRS ↔ SG–5 (A15–17 ↔ A16–12)	L–O ↔ LG	Refrigerant pressure 0 Mpa (0 kgf·cm, 0 psi).	0.5 V
		Refrigerant pressure 2.9 Mpa (30 kgf·cm, 427 psi).	4.5 V
TAMOUT ↔ GND *4 (A15–18 ↔ A14–1)	L ↔ W–B	IG ON.	Pulse generation
PaDN ↔ PaGND (A15–19 ↔ A15–12)	R–W ↔ GR–L	Push passenger temperature switch OFF.	10 – 14 V
		Push passenger temperature switch ON.	Below 1.0 V
PaUP ↔ PaGND (A15–20 ↔ A15–12)	W ↔ GR–L	Push passenger temperature switch OFF.	10 – 14 V
		Push passenger temperature switch ON.	Below 1.0 V
DrDN ↔ DrGND (A15–21 ↔ A15–11)	P–L ↔ LG–R	Push driver temperature switch OFF.	10 – 14 V
		Push driver temperature switch ON.	Below 1.0 V
DrUP ↔ DrGND (A15–22 ↔ A15–11)	V–W ↔ LG–R	Push driver temperature switch OFF.	10 – 14 V
		Push driver temperature switch ON.	Below 1.0 V
PS+B ↔ GND (A15–24 ↔ A14–1)	R–G ↔ W–B	Always	10 – 14 V
TFACEPa ↔ SG–4 (A16–14 ↔ A16–11)	GR–L ↔ Y–G *1 GR–R ↔ R–W *2	IG ON. Passenger side duct sensor temperature 25 °C (77 °F).	1.8 – 2.2 V
		IG ON. Passenger side duct sensor temperature 50 °C (122 °F).	0.8 – 1.2 V
TFACEDr ↔ SG–3 (A16–15 ↔ A16–10)	GR–R ↔ R–W *1 GR–L ↔ Y–G *2	IG ON. Passenger side duct sensor temperature 25 °C (77 °F).	1.8 – 2.2 V
		IG ON. Passenger side duct sensor temperature 50 °C (122 °F).	0.8 – 1.2 V

TR ↔ SG–2 (A16–16 ↔ A16–9)	W–L↔ Y–B	IG ON. Room temperature 25 ˚C (77 ˚F).	1.8 – 2.2 V
		IG ON. Room temperature 40 ˚C (104 ˚F).	0.8 – 1.2 V
NOX ↔ SG–1 *2,*3 (A16–17 ↔ A16–8)	L–B ↔Y	After 120 seconds from IG ON and the sensor is exposed to the exhaust gas.	1.0 – 4.5 V
AMDr1 ↔ GND (1 ↔ A14–1)	BR ↔ W–B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
AMDr2 ↔ GND (2 ↔ A14–1)	BR–B ↔ W–B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
AMDr3 ↔ GND (3 ↔ A14–1)	BR–W ↔ W–B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
AMDr4 ↔ GND (4 ↔ A14–1)	BR–Y↔ W–B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
AODr1 ↔ GND (5 ↔ A14–1)	L ↔ W–B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
AODr2 ↔ GND (6 ↔ A14–1)	L–B ↔ W–B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
WVS ↔ GND (7 ↔ A14–1)	G–W ↔ W–B	IG ON. Set temperature control MAX. COOL	Below 1.0 V
		IG ON. Set temperature control MAX. HOT	10 – 14 V
ABOPa ↔ GND (8 ↔ A14–1)	G–B ↔ W–B	During actuator check mode. Display code 0.	10 – 14 V
		Display code 9.	Below 1.0 V
ABSPa ↔ GND (9 ↔ A14–1)	G–O ↔ W–B	During actuator check mode. Display code 0.	Below 1.0 V
		Display code 9.	10 – 14 V
AMDB ↔ GND (10 ↔ A14–1)	R–B ↔ W–B	Always	10 – 14 V
AODr3 ↔ GND (12 ↔ A14–1)	L–W ↔ W–B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
AODr4 ↔ GND (13 ↔ A14–1)	L–R ↔ W–B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
WVIG ↔ GND (14 ↔ A14–1)	O ↔ W–B	IG ON.	10 – 14 V
		IG OFF.	0 V
WVO ↔ GND (15 ↔ A14–1)	G ↔ W–B	IG ON. Set temperature control MAX. COOL.	10 – 14 V
		IG ON. Set temperature control MAX. HOT.	Below 1.0 V
ABODr ↔ GND (16 ↔ A14–1)	GR ↔ W–B	During actuator check mode. Display code 0.	10 – 14 V
		Display code 9.	Below 1.0 V
ABSDr ↔ GND (17 ↔ A14–1)	GR–R ↔ W–B	During actuator check mode. Display code 0.	Below 1.0 V
		Display code 9.	10 – 14 V
S5–3 ↔ SG (18 ↔ 19)	R–W ↔ W–B	IG ON.	4.5 – 5.5 V
TPI ↔ SG (20 ↔ 19)	B–Y ↔ W–B	IG ON. Push REC switch.	4.0 V
		IG ON. Push FRESH switch.	1.0 V
TPBPa ↔ SG–7 (21 ↔ 37)	B–L ↔ W–L	Change display code 9 to display code 0.	3.5 – 4.5 V
		Change display code 2 to display code 3.	0.5 – 1.8 V
AODB ↔ GND (22 ↔ A14–1)	R–Y ↔ W–B	Always	10 – 14 V

AMPa1 ↔ GND (23 ↔ A14–1)	LG ↔ W–B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
AMPa2 ↔ GND (24 ↔ A14–1)	LG–B ↔ W–B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
AMPa3 ↔ GND (25 ↔ A14–1)	LG–W ↔ W–B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
AMPa4 ↔ GND (26 ↔ A14–1)	LG–R ↔ W–B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
AOPa1 ↔ GND (27 ↔ A14–1)	P ↔ W–B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
AOPa2 ↔ GND (28 ↔ A14–1)	P–B ↔ W–B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
AOPa3 ↔ GND (29 ↔ A14–1)	P–G ↔ W–B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
AOPa4 ↔ GND (31 ↔ A14–1)	P–L ↔ W–B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
S5–5 ↔ SG–7 (33 ↔ 37)	R ↔ W–L	IG ON.	4.5 – 5.5 V
AMPB ↔ GND (35 ↔ A14–1)	Y ↔ W–B	Always	10 – 14 V
AIF ↔ GND (38 ↔ A14–1)	G–R ↔ W–B	IG ON. Push REC switch.	Below 1.0 V
		IG ON. Push FRESH switch.	10 – 14 V
AIR ↔ GND (39 ↔ A14–1)	G–Y ↔ W–B	IG ON. Push FRESH switch.	Below 1.0 V
		IG ON. Push REC switch.	10 – 14 V
TE ↔ SG–7 (42 ↔ 37)	L–Y ↔ W–L	IG ON. Evaporator temperature 0 ˚C (32 ˚F).	2.0 – 2.4 V
		IG ON. Evaporator temperature 15 ˚C (59 ˚F).	1.4 – 1.8 V
TPBDr ↔ SG (46 ↔ 19)	B–R ↔ W–B	Change display code 9 to display code 0.	3.5 – 4.5 V
		Change display code 2 to display code 3.	0.5 – 1.8 V
AOPB ↔ GND (48 ↔ A14–1)	Y–R ↔ W–B	Always	10 – 14 V

*1: LHD Models
*2: RHD Models
*3: LHD, Eurpoe Models
*4: w/o LEXUS Navigation System

Rear A/C Amplifier



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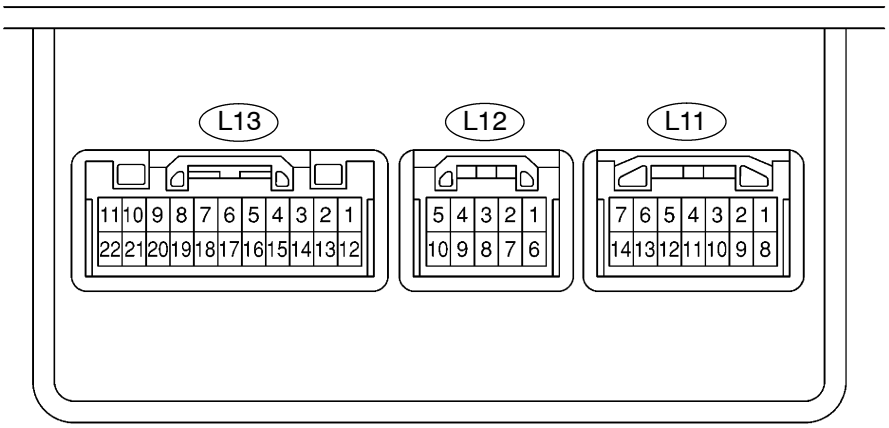
I20956

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
RLO ↔ GND (1 ↔ 6)	Y ↔ W–B	IG ON. Rear A/C blower switch manual OFF.	Below 1.0 V
		IG ON. Rear A/C blower switch manual LO.	10 – 14 V
RSLO ↔ GND (2 ↔ 6)	W–Y ↔ W–B	IG ON. Rear A/C switch OFF.	Below 1.0 V
		IG ON. Rear A/C switch AUTO.	10 – 14 V
R–B ↔ GND (3 ↔ 6)	L–W ↔ W–B	Always.	10 – 14 V
SFRS ↔ GND (4 ↔ 6)	V ↔ W–B	IG ON. Front A/C blower motor operates. Push "REC" switch.	10 – 14 V
		IG ON. Front A/C blower motor operates. Push "FRS" switch. Ambient temperature Below –1 °C	Below 1.0 V
RMGV ↔ GND *1 (5 ↔ 6)	G–Y ↔ W–B	IG ON. Rear A/C switch OFF.	10 – 14 V
		IG ON. Rear A/C AUTO mode. Rear A/C switch ON.	Below 1.0 V
RHI ↔ GND (8 ↔ 6)	L–R ↔ W–B	IG ON. Rear A/C blower switch OFF.	Below 1.0 V
		IG ON. Rear A/C manual mode. Blower switch HI.	10 – 14 V
RAUTO ↔ GND (9 ↔ 6)	W–L ↔ W–B	IG ON. Rear A/C manual mode	10 – 14 V
		IG ON. Rear A/C AUTO mode	Below 1.0 V
IG ↔ GND (10 ↔ 6)	B–R ↔ W–B	IG ON.	10 – 14 V
RFR2 ↔ GND *2 (11 ↔ 6)	G–B ↔ W–B	IG ON. Rear A/C blower motor speed except to HI.	10 – 14 V
		IG ON. Rear A/C blower motor speed to HI.	Below 1.0 V
		During actuator check mode. Display code 0.	10 – 14 V
		Display code 2.	Below 1.0 V
DIO ↔ GND (12 ↔ 6)	Y–B ↔ W–B	IG ON. Front A/C blower motor operates. Rear A/C blower motor speed to HI. Rear A/C switch ON.	10 – 14 V
		IG ON. Front A/C blower motor operates. Rear A/C blower motor speed to HI. Rear A/C switch OFF.	Below 1.0 V
EXO ↔ GND (13 ↔ 6)	G–W ↔ W–B	IG ON. Front A/C blower motor operates. Push "FRESH" switch. Rear AUTO mode. Rear A/C switch ON.	10 – 14 V
		IG ON. Front A/C blower motor operates. Push "FRESH" switch. Rear AUTO mode. Rear A/C switch OFF. Ambient temperature Below –1 °C	Below 1.0 V

ROO ↔ GND *1 (14 ↔ 6)	L–B ↔ W–B	IG ON. Front A/C blower motor operates. Rear A/C blower motor speed to HI. Rear A/C switch OFF.	10 – 14 V
		IG ON. Front A/C blower motor operates. Rear A/C blower motor speed to HI. Rear A/C switch ON.	Below 1.0 V
RFR1 ↔ GND *1 (15 ↔ 6)	G–B ↔ W–B	IG ON. Rear A/C blower motor speed except to HI.	10 – 14 V
		IG ON. Rear A/C blower motor speed to HI.	Below 1.0 V
		During actuator check mode. Display code 0.	10 – 14 V
		Display code 2.	Below 1.0 V
RHR ↔ GND (16 ↔ 6)	G–O ↔ W–B	IG ON. Rear A/C manual mode. Rear A/C blower motor does not operate.	10 – 14 V
		IG ON. Rear A/C manual mode. Rear A/C blower motor speed LO or HI.	Below 1.0 V
		During actuator check mode. Display code 0.	10 – 14 V
		Display code 2.	Below 1.0 V

*1: w/ Rear Cooler
*2: w/o Rear Cooler

Luggage Room J/B ECU:



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Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
RMGV ↔ Body ground *1 (L13–11 ↔ Body ground)	G–Y ↔ Body ground	IG ON. Rear A/C switch to ON.	Below 1.0 V
		IG ON. Rear A/C switch to OFF.	10 – 14 V
SMOK ↔ Body ground (L13–16 ↔ Body ground)	P–G ↔ Body ground	IG ON. Rear A/C switch to AUTO. By using cigarette smoke.	Above 4.0 V
		IG ON. Rear A/C switch to AUTO. By not using cigarette smoke.	Below 1.0 V
AUTO ↔ Body ground (L13–17 ↔ Body ground)	W–L ↔ Body ground	IG ON. Rear A/C rear seat AUTO indicator light up.	Below 1.0 V
		IG ON. Rear A/C rear seat AUTO indicator does not light up.	10 – 14 V
RHR ↔ Body ground (L13–18 ↔ Body ground)	G–O ↔ Body ground	IG ON. Rear A/C manual mode. Rear A/C blower motor does not operate.	10 – 14 V
		IG ON. Rear A/C manual mode. Rear A/C blower motor speed LO or HI.	Below 1.0 V
		During actuator check mode. Display code 0.	10 – 14 V
		Display code 2.	Below 1.0 V
RFR ↔ Body ground (L13–19 ↔ Body ground)	G–B ↔ Body ground	IG ON. Rear A/C blower motor speed except to HI.	10 – 14 V
		IG ON. Rear A/C blower motor speed to HI.	Below 1.0 V
		During actuator check mode. Display code 0.	10 – 14 V
		Display code 2.	Below 1.0 V
FRS ↔ Body ground (L13–20 ↔ Body ground)	GR–L ↔ Body ground	IG ON. Front A/C blower motor operates. Push "FRS" switch. Ambient temperature Below –1 °C	10 – 14 V
		IG ON. Front A/C blower motor operates. Push "REC" switch.	Below 1.0 V

*1: w/ Rear Cooler