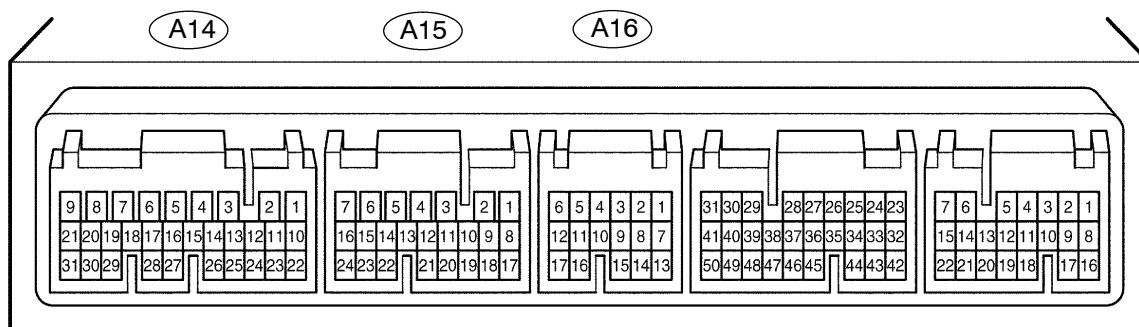


TERMINALS OF ECU

A/C ECU:



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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	IG ON. Solar sensor subjected to electric light.	0.8 - 4.3 V
	G-R *2 ↔ W-B	IG ON. Solar sensor cover by a cloth.	Below 0.8 V
TSPa ↔ GND (A14-20 ↔ A14-1)	G-R *1 ↔ W-B	IG ON. Solar sensor subjected to electric light.	0.8 - 4.3 V
	L *2 ↔ W-B	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

DIAGNOSTICS – AIR CONDITIONING SYSTEM

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
TPBP a ↔ 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

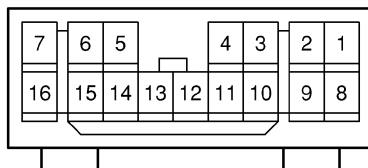
AMPa1 ↔ GND (23 ↔ A14-1)	LG ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
AMPa2 ↔ GND (24 ↔ A14-1)	LG-B ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
AMPa3 ↔ GND (25 ↔ A14-1)	LG-W ↔ W-B	During actuator check mode. 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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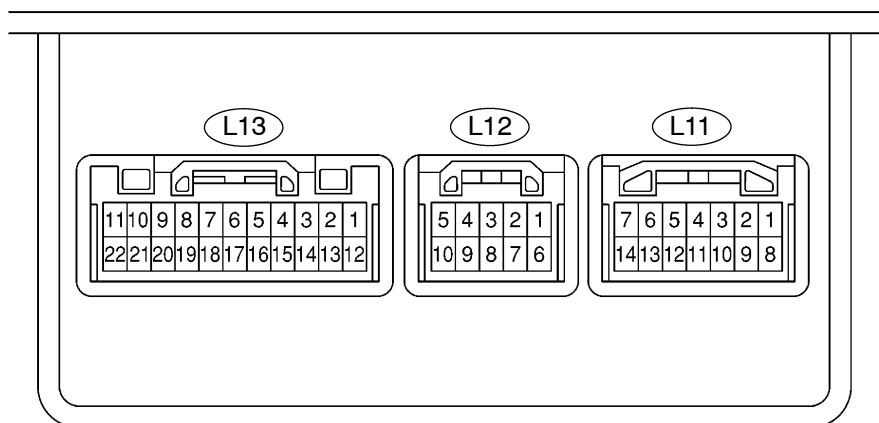
I20956

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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I21179

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