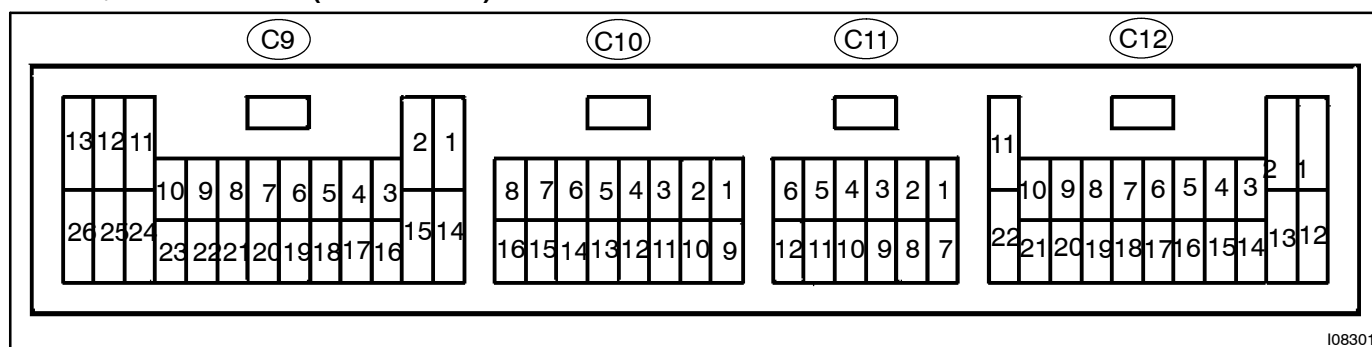


TERMINALS OF ECU

1. A/C AMPLIFIER (Center ECU)

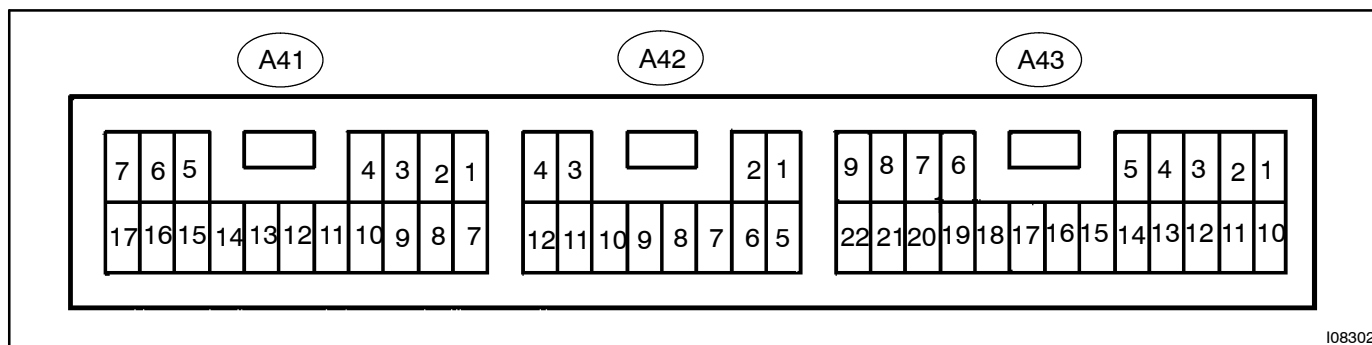


I08301

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
IG ↔ GND (C12-1 ↔ C12-22)	R-L ↔ W-B	IG switch OFF → ON	10 – 14 V
ACC ↔ GND (C12-2 ↔ C12-22)	GR ↔ W-B	Turn ignition switch ACC	10 – 14 V
AIF ↔ GND (C12-6 ↔ C12-22)	G-W ↔ W-B	IG ON. Push FRS switch	Below 1.0 V
		IG ON. Push REC switch	10 – 14 V
AIR ↔ GND (C12-7 ↔ C12-22)	LG-B ↔ W-B	IG ON. Push FRS switch	10 – 14 V
		IG ON. Push REC switch	Below 1.0 V
FrAMC ↔ GND (C12-8 ↔ C12-22)	P-G ↔ W-B	IG ON. Set temp. : Max Cool	10 – 14 V
		IG ON. Set temp. : Max Hot	Below 1.0 V
FrAMH ↔ GND (C12-9 ↔ C12-22)	P-B ↔ W-B	IG ON. Set temp. : Max Cool	Below 1.0 V
		IG ON. Push REC switch	10 – 14 V
+B ↔ GND (C12-12 ↔ C12-22)	L-W ↔ W-B	Always	10 – 14 V
FrS5 ↔ FrSG (C11-1 ↔ C11-12)	G-R ↔ Y-G	IG ON	4.5 – 5.5 V
FrTR ↔ FrSG (C11-2 ↔ C11-12)	B ↔ Y-G	IG ON. Cabin temp. : 25 °C (77 °F)	1.8 – 2.2 V
		IG ON. Cabin temp. : 40 °C (104 °F)	1.2 – 1.6 V
TAM ↔ FrSG (C11-3 ↔ C11-12)	L-Y ↔ Y-G	IG ON. Ambient temp. : 25 °C (77 °F)	1.3 – 1.8 V
		IG ON. Ambient temp. : 40 °C (104 °F)	0.8 – 1.3 V
FrTE ↔ FrSG (C11-4 ↔ C11-12)	GR-B ↔ Y-G	IG ON. Evaporator temp. : 0 °C (32 °F)	2.0 – 2.4 V
		IG ON. Evaporator temp. : 15 °C (59 °F)	1.4 – 1.8 V
TS ↔ FrSG (C11-6 ↔ C11-12)	B-Y ↔ Y-G	IG ON. Sensor subjected electric light	0.8 – 4.3V
		IG ON. Sensor covered by a cloth	Below 0.8 V
FrTP ↔ FrSG (C11-8 ↔ C11-12)	B-Y ↔ Y-G	IG ON. Set temp. : Max Cool	3.5 – 4.5 V
		IG ON. Set temp. : Max Hot	0.5 – 1.5 V
TPI ↔ FrSG (C11-9 ↔ C11-12)	L-R ↔ Y-G	IG ON. Push REC switch	3.5 – 4.5 V
		IG ON. Push FRS switch	0.5 – 1.5 V
FACE ↔ GND (C10-3 ↔ C12-22)	GR ↔ W-B	Mode control switch except FACE → FACE	From 10 – 14 V to below 1.0 V
B/L ↔ GND (C10-4 ↔ C12-22)	BR-W ↔ W-B	Mode control switch except BI-LEVEL → BI-LEVEL	From 10 – 14 V to below 1.0 V
FOOT ↔ GND (C10-5 ↔ C12-22)	W ↔ W-B	Mode control switch except FOOT → FOOT	From 10 – 14 V to below 1.0 V

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
F/D ↔ GND (C10-10 ↔ C12-22)	P-L ↔ W-B	Mode control switch except FOOT/DEF → FOOT/DEF	From 10 – 14 V to below 1.0 V
DEF ↔ GND (C10-11 ↔ C12-22)	B-W ↔ W-B	Mode control switch except DEF → DEF	From 10 – 14 V to below 1.0 V
FrBLW ↔ GND (C10-12 ↔ C12-22)	W-R ↔ W-B	Blower fan OFF → M2 → DEF	ON: Below 1.0 V OFF: 10 – 14 V
FrHR ↔ GND (C10-13 ↔ C12-22)	Y-R ↔ W-B	Blower fan OFF → ON	From 10 – 14 V to below 1.0 V
MGC ↔ GND (C10-14 ↔ C12-22)	L ↔ W-B	A/C compressor OFF → ON	From 10 – 14 V to below 1.0 V
LOCK ↔ FrSG (C9-57 ↔ C11-12)	W-L ↔ Y-G	A/C compressor ON	Pulse
TW ↔ GND (C9-59 ↔ C12-22)	Y-B ↔ W-B	IG ON. Engine coolant temp. : 25 °C (77 °F)	1.8 – 2.2 V
		IG ON. Engine Coolant temp. : 40 °C (104 °F)	1.2 – 1.6 V
PSW ↔ GND (C9-10 ↔ C12-22)	L-W ↔ W-B	A/C refrigerant pressure: less than 0.19 MPa (2.0 kgf/cm ²) or more than 3.14 MPa (32 Kgf/cm ²)	From 10 – 14 V to below 1.0 V
IGN ↔ GND (C9-13 ↔ C12-22)	B ↔ W-B	Engine idling	Pulse
SPD ↔ GND (C9-22 ↔ C12-22)	V ↔ W-B	Turn propeller shaft slowly	Pulse
ACT ↔ GND (C9-23 ↔ C12-22)	L-B ↔ W-B	A/C compressor OFF → ON	From 10 – 14 V to below 1.0 V

2. REAR A/C AMPLIFIER



108302

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
+B ↔ GND (A43-1 ↔ A43-22)	B ↔ W-B	Constant	10 – 14 V
IG1 ↔ GND (A43-2 ↔ A43-22)	R-L ↔ W-B	IG ON.	10 – 14 V
VMrc ↔ GND (A43-3 ↔ A43-22)	W-L ↔ W-B	Rr FACE mode. Rr blower switch: Lo → ME → HI	7.2 → 4.2 → 0.5 V
BLWrc ↔ GND (A43-4 ↔ A43-22)	R ↔ W-B	Rr FACE mode. Fr blower switch: OFF → Lo	Below 1.0 V → 1.5 – 3.0 V
S51 ↔ SG1 (A43-5 ↔ A43-9)	R-Y ↔ Y-G	IG ON.	4.5 – 5.5 V
TRr ↔ SG1 (A43-6 ↔ A43-9)	B ↔ Y-G	Rr temp. control switch: Max. COOL → Max. HOT	4.0 – 1.0 V
TEr ↔ SG1 (A43-7 ↔ A43-9)	Y ↔ Y-G	Rr evaporator temp.: 0 °C (32 °F)	2.0 – 2.4 V
		Rr evaporator temp.: 15 °C (59 °F)	2.0 – 2.4 V

DIAGNOSTICS – AIR CONDITIONING SYSTEM

Tinr ↔ SG1 (A43-8 ↔ A43-9)	GR-G ↔ Y-G	Rr inlet air temp.: 25 °C (77 °F)	1.5 – 1.9 V
		Rr inlet air temp.: 40 °C (104 °F)	1.2 – 1.6 V
SG1 ↔ GND (A43-9 ↔ A43-22)	Y-G ↔ W-B	Constant	Continuity
MCr ↔ GND (A43-11 ↔ A43-22)	W-L ↔ W-B	Rr temp. control switch: Max. HOT → Max. COOL	Below 1.0V → 10 – 14 V for 16 sec.
MHr ↔ GND (A43-12 ↔ A43-22)	Y ↔ W-B	Rr temp. control switch: Max. COOL → Max. HOT	Below 1.0V → 10 – 14 V for 16 sec.
HRrc ↔ GND (A43-13 ↔ A43-22)	R-Y ↔ W-B	Rr FACE mode. Rr blower control switch: OFF → LO	10 – 14 V → Below 1.0 V
HRrh ↔ GND (A43-14 ↔ A43-22)	L-B ↔ W-B	Rr FOOT mode. Rr blower control switch: OFF → LO	10 – 14 V → Below 1.0 V
VMrh ↔ GND (A43-15 ↔ A43-22)	R-W ↔ W-B	Rr FOOT mode. Rr blower control switch: LO → ME → HI	7.2 → 4.2 → 0.5 V
BLWrh ↔ GND (A43-16 ↔ A43-22)	R-G ↔ W-B	Rr FOOT mode. Rr blower control switch: OFF → LO	Below 1.0 V → 1.5 – 3.0 V
CID ↔ GND (A43-18 ↔ A43-22)	L ↔ W-B	IG ON.	Pulse
CSD ↔ GND (A43-19 ↔ A43-22)	R ↔ W-B	IG ON.	Pulse
CLK ↔ GND (A43-20 ↔ A43-22)	G ↔ W-B	IG ON.	Pulse
LAT ↔ GND (A43-21 ↔ A43-22)	W ↔ W-B	IG ON.	Pulse
GND ↔ Body ground (A43-22 ↔ Body ground)	W-B	Constant	Continuity
TRr ↔ SG2 (A42-7 ↔ A42-12)	B ↔ G-Y	IG ON. Rr room temp.: 25 °C (77 °F)	1.8 – 2.2 V
		IG ON. Rr room temp.: 40 °C (104 °F)	1.2 – 1.6 V
TSETr ↔ SG2 (A42-8 ↔ A42-12)	L-O ↔ G-Y	Rr temp. control switch: Max. COOL → Max. HOT	5.0 → 0 V
SG2 ↔ SG1 (A42-12 ↔ A43-9)	G-Y ↔ Y-G	Constant	Continuity
AUTO-S ↔ RG (A41-1 ↔ A41-8)	W-G ↔ G-Y	Rr A/C control panel AUTO switch: OFF → ON	10 – 14 V → Below 1.0 V during pushed switch
OFF-S ↔ RG (A41-2 ↔ A41-8)	Y-B ↔ G-Y	Rr A/C control panel OFF switch: OFF → ON	10 – 14 V → Below 1.0 V during pushed switch
LO-S ↔ RG (A41-3 ↔ A41-8)	GR ↔ G-Y	Rr A/C control panel LO switch: OFF → ON	10 – 14 V → Below 1.0 V during pushed switch
ME-S ↔ RG (A41-4 ↔ A41-8)	L-Y ↔ G-Y	Rr A/C control panel ME switch: OFF → ON	10 – 14 V → Below 1.0 V during pushed switch
AUTO-I ↔ GND (A41-5 ↔ A43-22)	L-R ↔ W-B	Rr A/C control panel switch: except. AUTO → AUTO	10 – 14 V → Below 1.0 V
LO-I ↔ GND (A41-6 ↔ A43-22)	L-W ↔ W-B	Rr A/C control panel switch: except. LO → LO	10 – 14 V → Below 1.0 V
ME-I ↔ GND (A41-7 ↔ A43-22)	L ↔ W-B	Rr A/C control panel switch: except. ME → ME	10 – 14 V → Below 1.0 V

RG ↔ GND (A41-8 ↔ A43-22)	G-W ↔ W-B	Constant	Continuity
HI-S ↔ GND (A41-9 ↔ A43-22)	GR-R ↔ W-B	Rr A/C control panel HI switch: OFF → ON	10 – 14 V → Below 1.0 V during pushed switch
FACE-S ↔ GND (A41-10 ↔ A43-22)	R-L ↔ W-B	Rr A/C control panel FACE switch: OFF → ON	10 – 14 V → Below 1.0 V during pushed switch
B/L-S ↔ GND (A41-11 ↔ A43-22)	R-Y ↔ W-B	Rr A/C control panel B/L switch: OFF → ON	10 – 14 V → Below 1.0 V during pushed switch
FOOT-S ↔ GND (A41-12 ↔ A43-22))	R-G ↔ W-B	Rr A/C control panel FOOT switch: OFF → ON	10 – 14 V → Below 1.0 V during pushed switch
FACE-I ↔ GND (A41-15 ↔ A43-22)	G ↔ W-B	Rr A/C control panel switch: except. FACE → FACE	10 – 14 V → Below 1.0 V
B/L-I ↔ GND (A41-16 ↔ A43-22)	W-G ↔ W-B	Rr A/C control panel switch: except. B/L → B/L	10 – 14 V → Below 1.0 V
FOOT-I ↔ GND (A41-17 ↔ A43-22)	W-R ↔ W-B	Rr A/C control panel switch: except. FOOT → FOOT	10 – 14 V → Below 1.0 V
HI-I ↔ GND (A41-18 ↔ A41-22)	L ↔ W-B	Rr A/C control panel switch: except. HI → HI	10 – 14 V → Below 1.0 V