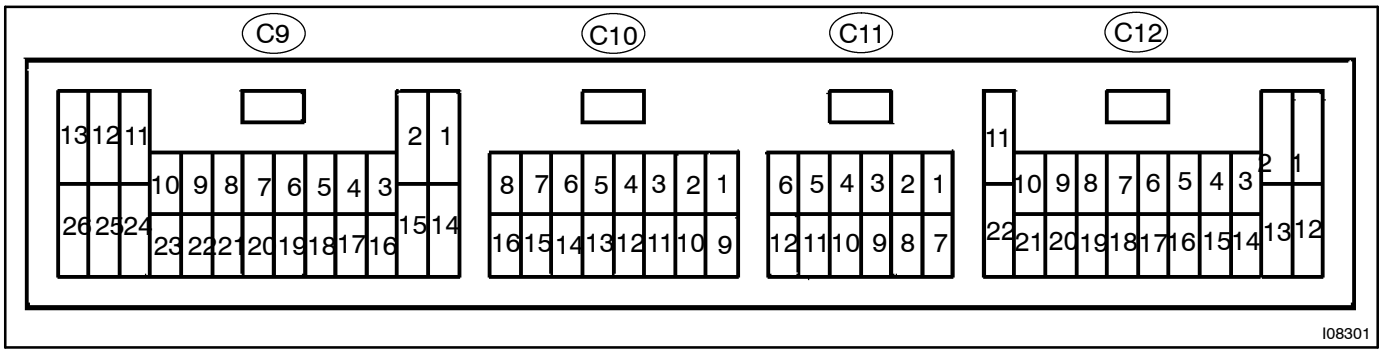
DI3CW–02

TERMINALS OF ECU

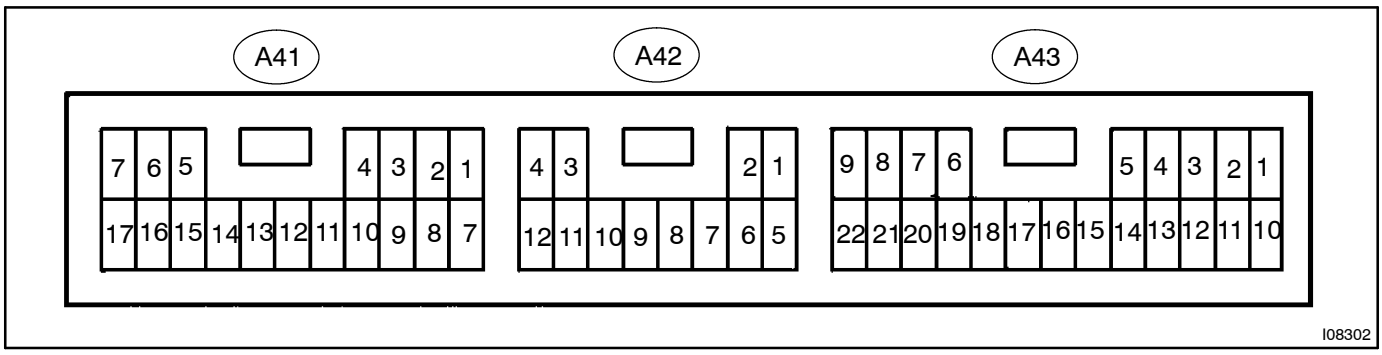
1. A/C AMPLIFIER (Center ECU)



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–LEVEI → 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



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

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