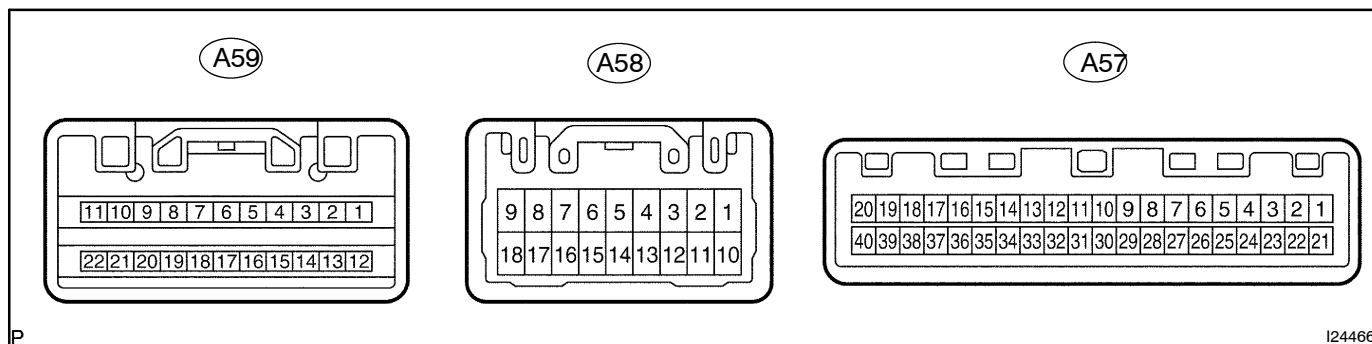


TERMINALS OF ECU

FRONT A/C AMPLIFIER



P

I24466

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
AIF ↔ GND (A57-1 ↔ A59-12)	G-W ↔ W-B	IG ON. Air inlet control switch "FRESH"	Battery voltage
		IG ON. Air inlet control switch "RECIRC"	Below 1.0 V
AIR ↔ GND (A57-2 ↔ A59-12)	LG-B ↔ W-B	IG ON. Air inlet control switch "RECIRC"	Battery voltage
		IG ON. Air inlet control switch "FRESH"	Below 1.0 V
RHR ↔ GND (A57-3 ↔ A59-12)	L-B ↔ W-B	IG ON. Rear heater switch "OFF"	Battery voltage
		IG ON. Rear heater switch "ON"	Below 1.0 V
RHFR ↔ GND (A57-4 ↔ A59-12)	L-R ↔ W-B	IG ON. Rear heater switch "OFF"	Battery voltage
		IG ON. Rear heater switch "ON"	Below 1.0 V
MRRHR ↔ GND (A57-6 ↔ A59-12)	R ↔ W-B	IG ON. Mirror heater switch "OFF"	Battery voltage
		IG ON. Mirror heater switch "ON"	Below 1.0 V
A/CS ↔ GND (A57-7 ↔ A59-12)	L-B (*2) ↔ W-B	Compressor does not operate	Battery voltage
		Compressor operate	Below 1.0 V
FRHR ↔ GND (A57-9 ↔ A59-12)	Y-R ↔ W-B	IG ON. Front A/C blower motor does not operate	Battery voltage
		IG ON. Front A/C blower motor operate	Below 1.0 V
RDFGR ↔ GND (A57-10 ↔ A59-12)	LG ↔ W-B	IG ON. Rear defogger switch "OFF"	Battery voltage
		IG ON. Rear defogger switch "ON"	Below 1.0 V
TEO ↔ GND (A57-11 ↔ A59-12)	P-B (*1) ↔ W-B	Compressor does not operate	Battery voltage
		Compressor operate	Below 1.0 V
DEF ↔ GND (A57-12 ↔ A59-12)	B-W ↔ W-B	IG ON. Mode control switch "Except DEF"	Battery voltage
		IG ON. Mode control switch "DEF"	Below 0.7 V
F/D ↔ GND (A57-13 ↔ A59-12)	P-L ↔ W-B	IG ON. Mode control switch "Except FOOT/DEF"	Battery voltage
		IG ON. Mode control switch "FOOT/DEF"	Below 0.7 V
FOOT ↔ GND (A57-14 ↔ A59-12)	W ↔ W-B	IG ON. Mode control switch "Except FOOT/DEF"	Battery voltage
		IG ON. Mode control switch "FOOT/DEF"	Below 0.7 V
B/L ↔ GND (A57-15 ↔ A59-12)	BR-W ↔ W-B	IG ON. Mode control switch "Except BI-LEVEL"	Battery voltage
		IG ON. Mode control switch "BI-LEVEL"	Below 0.7 V
FACE ↔ GND (A57-16 ↔ A59-12)	GR ↔ W-B	IG ON. Mode control switch "Except FACE"	Battery voltage
		IG ON. Mode control switch "FACE"	Below 0.7 V
RHI-I ↔ GND (A57-17 ↔ A59-12)	R-G ↔ W-B	IG ON. Rear heater switch "OFF"	Battery voltage
		IG ON. Rear heater switch "HI"	Below 1.0 V
RLO-I ↔ GND (A57-18 ↔ A59-12)	R-B ↔ W-B	IG ON. Rear heater switch "OFF"	Battery voltage
		IG ON. Rear heater switch "LO"	Below 1.0 V

FRMGV ↔ GND (A57-20 ↔ A59-12)	L ↔ W-B	IG ON. A/C switch "OFF"	Battery voltage
		IG ON. A/C switch "ON"	Below 1.0 V
FRAMH ↔ GND (A57-21 ↔ A59-12)	P-B ↔ W-B	IG ON. Temperature control dial "MAX. WARM"	Battery voltage
		IG ON. Temperature control dial "MAX. COOL"	Below 1.0 V
FRAMC ↔ GND (A57-22 ↔ A59-12)	P-G ↔ W-B	IG ON. Temperature control dial "MAX. COOL"	Battery voltage
		IG ON. Temperature control dial "MAX. WARM"	Below 1.0 V
FRBLW ↔ GND (A57-23 ↔ A59-12)	W-R ↔ W-B	IG ON. Front A/C blower does not operate	Battery voltage
		IG ON. Front A/C blower motor operate	Below 1.0 V
DEFC ↔ GND (A57-27 ↔ A59-12)	R-L ↔ W-B	Diff. lock switch "ON"	Continuity
RRMGV ↔ GND (A57-40 ↔ A59-12)	LG-R ↔ W-B	IG ON. Rear cooler switch "OFF"	Battery voltage
		IG ON. Rear cooler switch "ON"	Below 1.0 V
FRTP ↔ FRSG (A58-5 ↔ A58-18)	B-Y ↔ Y-G	IG ON. Temperature control dial "MAX. COOL"	Approx. 4.0 V
		IG ON. Temperature control dial "MAX. WARM"	Approx. 1.0 V
TEC ↔ FRSG (A58-6 ↔ A58-18)	R-L ↔ Y-G	Cool box evaporator temperature at 25 °C (77 °F)	1.4 – 1.8 V
TAM ↔ FRSG (A58-7 ↔ A58-18)	L-Y ↔ Y-G	IG ON. Ambient temperature at 25 °C (77 °F)	1.35 – 1.75 V
TS ↔ FRSG (A58-8 ↔ A58-18)	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
FRS5 ↔ FRSG (A58-9 ↔ A58-18)	G-R ↔ Y-G	Trun ignition switch "ON"	5.0 V
		Trun ignition switch "OFF"	No voltage
TPI ↔ FRSG (A58-14 ↔ A58-18)	L-R ↔ Y-G	IG ON. Air inlet control switch "FRESH"	Approx. 1.0 V
		IG ON. Air inlet control switch "RECIRC"	Approx. 4.0 V
FRTE ↔ FRSG (A58-16 ↔ A58-18)	GR-B ↔ Y-G	IG ON. Evaporator temperature at 15 °C (59 °F)	1.4 – 1.8 V
FRTR ↔ FRSG (A58-17 ↔ A58-18)	B ↔ Y-G	IG ON. Cabin temperature at 25 °C (77 °F)	1.8 – 2.2 V
FRSG ↔ Body ground (A58-18 ↔ Body ground)	Y-G ↔ Body ground	Always	Continuity
ALED ↔ GND (A59-4 ↔ A59-12)	G-B (*1) ↔ W-B	Compressor operate	Below 1.0 V
		Compressor does not operate	No voltage
TW ↔ GND (A59-5 ↔ A59-12)	Y-B (*2, *3) ↔ W-B Y-B (*4) ↔ W-B	IG ON.	Pluse
SPD ↔ GND (A59-6 ↔ A59-12)	V ↔ W-B	Turn propeller shaft slowly	Pluse
PSW ↔ GND (A59-8 ↔ A59-12)	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
RH-S ↔ GND (A59-9 ↔ A59-12)	R-W ↔ W-B	IG ON. Rear heater switch "OFF"	Battery voltage
		IG ON. Rear heater switch "ON"	Below 1.0 V
ILL+ ↔ GND (A59-10 ↔ A59-12)	G ↔ W-B	IG ON. Light control switch "TAIL"	Battery voltage
		IG ON. Light control switch "OFF"	No voltage
+B ↔ GND (A59-11 ↔ A59-12)	L-W ↔ W-B	Always	Battery voltage
GND ↔ Body ground (A59-12 ↔ Body ground)	W-B ↔ Body ground	Always	Continuity

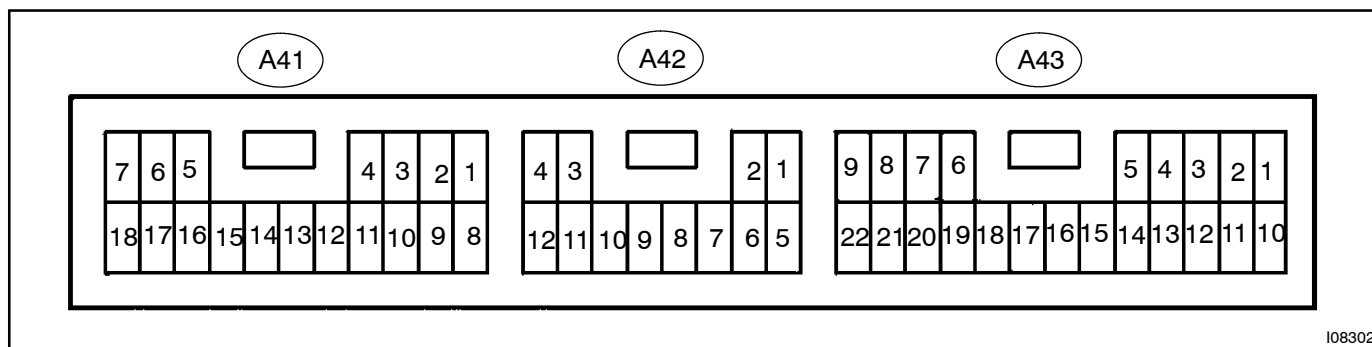
ILL- ↔ GND (A59-19 ↔ A59-12)	W-G ↔ W-B	IG ON. Light control switch "TAIL"	Below 1.0 V
		IG ON. Light control switch "OFF"	No voltage
IG ↔ GND (A59-22 ↔ A59-12)	R-L ↔ W-B	IG ON. Light control switch "ON"	Battery voltage
		IG ON. Light control switch "OFF"	No voltage

*1: 2UZ-FE

*2: 2UZ-FE, LHD

*3: 1HD-FTE, LHD

*4: RHD

REAR A/C AMPLIFIER

I08302

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
RRAT ↔ RG (A41-1 ↔ A41-8)	W-G ↔ G-W	Rr A/C control panel AUTO switch: OFF → ON	Battery voltage → Below 1.0 V during pushed switch
RRAO ↔ RG (A41-2 ↔ A41-8)	Y-B ↔ G-W	Rr A/C control panel OFF switch: OFF → ON	Battery voltage → Below 1.0 V during pushed switch
RRLO ↔ RG (A41-3 ↔ A41-8)	GR ↔ G-W	Rr A/C control panel LO switch: OFF → ON	Battery voltage → Below 1.0 V during pushed switch
RRME ↔ RG (A41-4 ↔ A41-8)	L-Y ↔ G-W	Rr A/C control panel ME switch: OFF → ON	Battery voltage → Below 1.0 V during pushed switch
ATIN ↔ GND (A41-5 ↔ A43-22)	L-R ↔ W-B	Rr A/C control panel switch: except. AUTO → AUTO	Battery voltage → Below 1.0 V
LOIN ↔ GND (A41-6 ↔ A43-22)	L-W ↔ W-B	Rr A/C control panel switch: except. LO → LO	Battery voltage → Below 1.0 V
MEIN ↔ GND (A41-7 ↔ A43-22)	L ↔ W-B	Rr A/C control panel switch: except. ME → ME	Battery voltage → Below 1.0 V
RG ↔ GND (A41-8 ↔ A43-22)	G-W ↔ W-B	Always	Continuity
RRHI ↔ GND (A41-9 ↔ A43-22)	GR-R ↔ W-B	Rr A/C control panel HI switch: OFF → ON	Battery voltage → Below 1.0 V during pushed switch
FACE ↔ GND (A41-10 ↔ A43-22)	R-L ↔ W-B	Rr A/C control panel FACE switch: OFF → ON	Battery voltage → Below 1.0 V during pushed switch
B/L ↔ GND (A41-11 ↔ A43-22)	R-Y ↔ W-B	Rr A/C control panel B/L switch: OFF → ON	Battery voltage → Below 1.0 V during pushed switch

FOOT ↔ GND (A41-12 ↔ A43-22)	R-G ↔ W-B	Rr A/C control panel FOOT switch: OFF → ON	Battery voltage → Below 1.0 V during pushed switch
FCIN ↔ GND (A41-15 ↔ A43-22)	G ↔ W-B	Rr A/C control panel switch: except. FACE → FACE	Battery voltage → Below 1.0 V
BLIN ↔ GND (A41-16 ↔ A43-22)	W-G ↔ W-B	Rr A/C control panel switch: except. B/L → B/L	Battery voltage → Below 1.0 V
FTIN ↔ GND (A41-17 ↔ A43-22)	W-R ↔ W-B	Rr A/C control panel switch: except. FOOT → FOOT	Battery voltage → Below 1.0 V
HIIN ↔ GND (A41-18 ↔ A43-22)	L ↔ W-B	Rr A/C control panel switch: except. HI → HI	Battery voltage → Below 1.0 V
TR ↔ SGND (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
TSET ↔ SGND (A42-8 ↔ A42-12)	L-O ↔ G-Y	Rr temp. control switch: Max. COOL → Max. HOT	5.0 → 0 V
SGND ↔ SG (A42-12 ↔ A43-9)	G-Y ↔ Y-G	Always	Continuity
+B ↔ GND (A43-1 ↔ A43-22)	L-W ↔ W-B	Always	Battery voltage
IG ↔ GND (A43-2 ↔ A43-22)	B-W ↔ W-B	IG ON.	Battery voltage
VMC ↔ 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
BLWC ↔ 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
S5 ↔ SG (A43-5 ↔ A43-9)	R-Y ↔ Y-G	IG ON.	4.5 – 5.5 V
TPH ↔ SG (A43-6 ↔ A43-9)	GR-R ↔ Y-G	Rr temp. control switch: Max. COOL → Max. HOT	4.0 – 1.0 V
TEC ↔ SG (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
TINH ↔ SG (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
SG ↔ GND (A43-9 ↔ A43-22)	Y-G ↔ W-B	Always	Continuity
MCH ↔ GND (A43-11 ↔ A43-22)	W-L ↔ W-B	Rr temp. control switch: Max. HOT → Max. COOL	Below 1.0V → Battery voltage for 16 sec.
MHH ↔ GND (A43-12 ↔ A43-22)	Y ↔ W-B	Rr temp. control switch: Max. COOL → Max. HOT	Below 1.0V → Battery voltage for 16 sec.
HRC ↔ GND (A43-13 ↔ A43-22)	R-Y ↔ W-B	Rr FACE mode. Rr blower control switch: OFF → LO	Battery voltage → Below 1.0 V
HRH ↔ GND (A43-14 ↔ A43-22)	L-B ↔ W-B	Rr FOOT mode. Rr blower control switch: OFF → LO	Battery voltage → Below 1.0 V
VMH ↔ 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
BLWH ↔ 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

DIAGNOSTICS - AIR CONDITIONING SYSTEM

CID ↔ GND (A43-18 ↔ A43-22)	B ↔ W-B	IG ON.	Pulse
CSD ↔ GND (A43-19 ↔ A43-22)	R ↔ W-B	IG ON.	Pulse
CLKF ↔ GND (A43-20 ↔ A43-22)	G ↔ W-B	IG ON.	Pulse
GND ↔ Body ground (A43-22 ↔ Body ground)	W-B	Always	Continuity