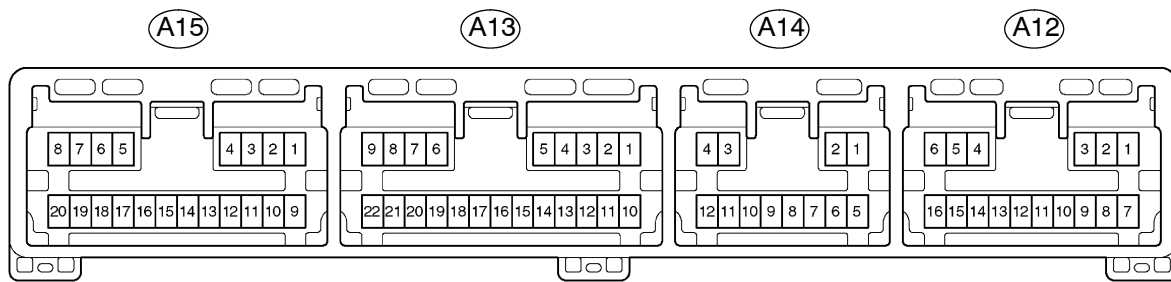


# TERMINALS OF ECU

## A/C Control Assembly



N

I10702

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
AIF ↔ GND (A12-1 ↔ A15-9)	BR-R ↔ W-B	IG ON. Push REC switch.	10 - 14 V
		IG ON. Push "FRESH" switch.	Below 1.0 V
RDFG ↔ GND (A12-2 ↔ A15-9)	R-B ↔ W-B	IG ON. Rr defogger switch OFF	10 - 14 V
		IG ON. Rr defogger switch ON	Below 1.0 V
HR ↔ GND (A12-3 ↔ A15-9)	L-Y ↔ W-B	IG ON. Operate blower motor.	Below 1.0 V
		IG ON. Blower motor does not operate.	10 - 14 V
TC ↔ GND (A12-4 ↔ A15-9)	GR-G ↔ W-B	IG ON. Turn light control switch to OFF.	0 V
		IG ON. Turn light control switch to TAIL.	10 - 14 V
*1 ABOL ↔ GND *2 ABOR ↔ GND (A12-5 ↔ A15-9)	*1 B-W ↔ W-B *2 LG ↔ W-B	During actuator check mode. Display code 0	10 - 14 V
		Display code 9	Below 1.0 V
*1 ABOR ↔ GND *2 ABOL ↔ GND (A12-6 ↔ A15-9)	*1 LG ↔ W-B *2 B-W ↔ W-B	During actuator check mode. Display code 0	Below 1.0 V
		Display code 9	10 - 14 V
AIR ↔ GND (A12-7 ↔ A15-9)	P-B ↔ W-B	IG ON. Push "FRESH" switch.	10 - 14 V
		IG ON. Push "REC" switch.	Below 1.0 V
BLW ↔ GND (A12-8 ↔ A15-9)	LG-R ↔ W-B	Blower fan speed OFF → M2 → HI	Pulse generation
		During actuator check mode. Display code 2	(Measured battery voltage x 5.3/13) ± 1.0V
		Display code 1	(Measured battery voltage x 9/13) ± 1.0 V
		Display code 9	Below 1.0 V
		Display code 0	10 - 14 V
ILL+ ↔ GND (A12-10 ↔ A15-9)	G ↔ W-B	IG ON. Turn light control switch to OFF.	Below 1.0 V
		IG ON. Turn light control switch to TAIL.	10 - 14 V
REOS ↔ GND (A12-12 ↔ A15-9)	W-G ↔ W-B	IG ON. Turn headlight control switch to TAIL position. Turn rheostat volume from most right to left position.	Below 1.0 V to 10 - 14 V
LOCK ↔ GND (A12-11 ↔ A15-9)	W-L ↔ W-B	A/C magnetic clutch ON	Pulse generation

## DIAGNOSTICS - AIR CONDITIONING SYSTEM

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
WVO ↔ GND (A12-13 ↔ A15-9)	R-G ↔ W-B	IG ON. Set temperature control MAX. COOL	10 - 14 V
		IG ON. Set temperature control MAX. HOT	Below 1.0 V
WVS ↔ GND (A12-14 ↔ A15-9)	G-W ↔ W-B	IG ON. Set temperature control MAX. COOL	Below 1.0 V
WVS ↔ GND (A12-14 ↔ A15-9)	G-W ↔ W-B	IG ON. Set temperature control MAX. HOT	10 - 14 V
*1 ABSL ↔ GND *2 ABSR ↔ GND (A12-15 ↔ A15-9)	*1 L-R ↔ W-B *2 V-Y ↔ W-B	During actuator check mode. Display code code 2	Below 1.0 V
*1 ABSL ↔ GND *2 ABSR ↔ GND (A12-15 ↔ A15-9)	*1 L-R ↔ W-B *2 LG ↔ W-B	Display code 3	10 - 14 V
*1 ABSR ↔ GND *2 ABSL ↔ GND (A12-16 ↔ A15-9)	*1 V-Y ↔ W-B *2 L-R ↔ W-B	During actuator check mode. Display code 2	10 - 14 V
		Display code 3	Below 1.0 V
PRE ↔ GND (A13-3 ↔ A15-9)	L-O ↔ W-B	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
TE ↔ SG (A13-6 ↔ A13-22)	Y-R ↔ W-B	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
TAM ↔ SG (A13-7 ↔ A13-22)	P ↔ Y-G	IG ON. Ambient temperature 25 °C (77 °F)	1.3 - 1.8 V
		IG ON. Ambient temperature 40 °C (104 °F)	0.8 - 1.3 V
TR ↔ SG (A13-8 ↔ A13-22)	Y ↔ Y-G	IG ON. Room temperature 25 °C (77 °F)	1.8 - 2.2 V
		IG ON. Room temperature 40 °C (104 °F)	1.2 - 1.6 V
S5 ↔ SG (A13-9 ↔ A13-22)	L ↔ Y-G	IG ON.	4.5 - 5.5 V
TPI ↔ SG (A13-15 ↔ A13-22)	R-W ↔ Y-G	IG ON. Push REC switch.	4.0 V
		IG ON. Push FRESH switch.	1.0 V
*1 TFAL ↔ SG *2 TFAR ↔ SG (A13-16 ↔ A13-22)	*1 GR-R ↔ Y-G *2 GR-L ↔ Y-G	IG ON. Driver side duct sensor temp. 25 °C (77 °F)	1.8 - 2.2 V
		IG ON. Driver side duct sensor temp. 50 °C (122 °F)	0.8 - 1.2 V
*1 TFAR ↔ SG *2 TFAL ↔ SG (A13-17 ↔ A13-22)	*1 GR-L ↔ Y-G *2 GR-R ↔ Y-G	IG ON. Passenger side duct sensor temp. 25 °C (77 °F)	1.8 - 2.2 V
		IG ON. Passenger side duct sensor temp. 50 °C (122 °F)	0.8 - 1.2 V
*1 TPBL ↔ SG *2 TPBR ↔ SG (A13-18 ↔ A13-22)	*1 GR ↔ Y-G *2 R-B ↔ Y-G	During actuator check mode. Display code 2	3.5 - 4.5 V
		Display code 3	0.5 - 1.8 V
*1 TPBR ↔ SG *2 TPBL ↔ SG (A13-19 ↔ A13-22)	*1 R-B ↔ Y-G *2 V-G ↔ Y-G	During actuator check mode. Display code 2	3.5 - 4.5 V
		Display code 3	0.5 - 1.8 V
TS ↔ SG (A13-20 ↔ A13-22)	G-R ↔ Y-G	IG ON. Solar sensor subject to electric light.	Below 0.8 V
		IG ON. Solar sensor covered by a cloth.	0.8 - 4.3 V
SG ↔ Body (A13-22 ↔ Body ground)	Y-G ↔ Body ground	Always	Below 1.0 Ω
RUP ↔ GND (A14-1 ↔ A15-9)	W-R ↔ W-B	IG ON. Do not push temp. UP switch on rear seat.	10 - 14 V
		IG ON. Keep pushing temp. UP switch on rear seat.	Below 1.0 V
RDWN ↔ GND (A14-2 ↔ A15-9)	W-G ↔ W-B	IG ON. Do not push temp. DOWN switch on rear seat.	10 - 14 V
		IG ON. Keep pushing temp. DOWN switch on rear seat.	Below 1.0 V

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
RRON ↔ GND (A14-3 ↔ A15-9)	Y-R ↔ W-B	IG ON. Do not push Rr A/C ON/OFF switch on rear seat.	10 - 14 V
		IG ON. Keep pushing Rr. A/C ON/OFF switch on rear seat.	Below 1.0 V
RMOD ↔ GND (A14-4 ↔ A15-9)	W ↔ W-B	IG ON. Do not push Rr. MODE switch on rear seat.	10 - 14 V
		IG ON. Keep pushing Rr. A/C ON/OFF switch on rear seat.	Below 1.0 V
RGND ↔ GND (A14-5 ↔ A15-9)	BR ↔ W-B	Always	Continuity
RRLO ↔ GND (A14-6 ↔ A15-9)	R ↔ W-B	IG ON. Rear A/C LO indicator does not light up on rear seat.	10 - 14 V
		IG ON. Rear A/C LO indicator lights up on rear seat.	Below 1.0 V
RRHI ↔ GND (A14-7 ↔ A15-9)	R-G ↔ W-B	IG ON. Rear A/C HI indicator does not light up on rear seat.	10 - 14 V
		IG ON. Rear A/C HI indicator lights up on rear seat.	Below 1.0 V
RRAC ↔ GND (A14-8 ↔ A15-9)	R-L ↔ W-B	IG ON. Rear A/C indicator does not light up on rear seat.	10 - 14 V
		IG ON. Rear A/C indicator lights up on rear seat.	Below 1.0 V
DATA ↔ GND (A14-9 ↔ A15-9)	LG ↔ W-B	Indicate temperature	Pulse generation
IG+ ↔ GND (A15-1 ↔ A15-9)	V-G ↔ W-B	IG OFF.	0 V
		IG ON.	10 - 14 V
*1 AML4 ↔ GND (A15-2 ↔ A12-9)	V-R ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*1 AML3 ↔ GND (A15-3 ↔ A12-9)	O ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*2 AMR1 ↔ GND (A15-2 ↔ A12-9)	G-Y ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*2 AMR2 ↔ GND (A15-3 ↔ A12-9)	BR-W ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*1 AMR4 ↔ GND (A15-4 ↔ A15-9)	GR-G ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*2 AML1 ↔ GND (A15-4 ↔ A15-9)	Y-B ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*1 AOL4 ↔ GND (A15-5 ↔ A15-9)	Y ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*2 AOR1 ↔ GND (A15-5 ↔ A15-9)	P ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*1 AOR4 ↔ GND (A15-6 ↔ A15-9)	G-O ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*2 AOL1 ↔ GND (A15-6 ↔ A15-9)	V ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*1 AOR3 ↔ GND (A15-7 ↔ A15-9)	L-B ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*2 AOL2 ↔ GND (A15-7 ↔ A15-9)	R-B ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
B ↔ GND (A15-8 ↔ A15-9)	P-L ↔ W-B	Always	10 - 16 V
GND ↔ Body (A15-9 ↔ Body ground)	W-B ↔ Body ground	Always	Below 1.0 Ω
*1 AML2 ↔ GND (A15-10 ↔ A15-9)	LG ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*2 AMR2 ↔ GND (A15-3 ↔ A15-9)	BR-W ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation

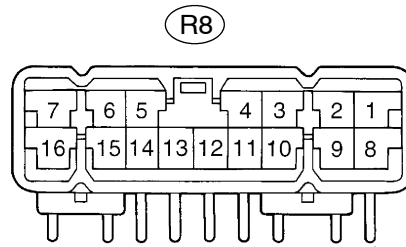
## DIAGNOSTICS - AIR CONDITIONING SYSTEM

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
*1 AML3 ↔ GND (A15-10 ↔ A15-9)	O ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*2 AML3 ↔ GND (A15-3 ↔ A15-9)	LG-B ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*1 AML1 ↔ GND *2 AMR4 ↔ GND (A15-11 ↔ A15-9)	*1 Y-B ↔ W-B *2 GR-G ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*1 AMR3 ↔ GND *2 AML2 ↔ GND (A15-12 ↔ A15-9)	*1 LG-B ↔ W-B *2 LG ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*1 AMR2 ↔ GND *2 AML3 ↔ GND (A15-13 ↔ A15-9)	*1 BR-W ↔ W-B *2 O ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*1 AMR1 ↔ GND *2 AML4 ↔ GND (A15-14 ↔ A15-9)	*1 G-Y ↔ W-B *2 V-R ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*1 AOL3 ↔ GND *2 AOR2 ↔ GND (A15-15 ↔ A15-9)	*1 B-Y ↔ W-B *2 GR ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*1 AOL2 ↔ GND *2 AOR3 ↔ GND (A15-16 ↔ A15-9)	*1 R-B ↔ W-B *2 L-B ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*1 AOL1 ↔ GND *2 AOR4 ↔ GND (A15-17 ↔ A15-9)	*1 V ↔ W-B *2 G-O ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*1 AOR2 ↔ GND *2 AOL3 ↔ GND (A15-18 ↔ A15-9)	*1 GR ↔ W-B *2 B-Y ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
*1 AOR1 ↔ GND *2 AOL4 ↔ GND (A15-19 ↔ A15-9)	*1 P ↔ W-B *2 Y ↔ W-B	During actuator check mode. Change display code 0 to display code 9.	Pulse generation
ACC ↔ GND (A15-20 ↔ A15-9)	P-G ↔ W-B	Turn ignition switch to ACC.	10 - 14 V

\*1: LHD Models

\*2: RHD Models

## Rear A/C Amplifier



I05453

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
RLO ↔ GND (R8-1 ↔ R8-6)	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 (R8-2 ↔ R8-6)	W-G ↔ 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 (R8-3 ↔ R8-6)	R-B ↔ W-B	Always.	10 - 14 V
FRSIND ↔ GND (R8-4 ↔ R8-6)	W-R ↔ W-B	IG ON. Push front A/C "REC" switch.	10 - 14 V
		IG ON. Push front A/C "FRESH" switch.	Below 1.0 V
RMGV ↔ GND (R8-5 ↔ R8-6)	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
GND ↔ Body (R8-6 ↔ Body ground)	W-B ↔ Body ground	Always	Below 1.0 Ω
RHI ↔ GND (R8-8 ↔ R8-6)	L-B ↔ 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
R-AUTO ↔ GND (R8-9 ↔ R8-6)	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
RMGV ↔ GND (R8-5 ↔ R8-6)	G-Y ↔ W-B	During actuator check mode. Display code 0	10 - 14 V
		Display code 2	Below 1.0 V
IG ↔ GND (R8-10 ↔ R8-6)	V-W ↔ W-B	IG ON.	10 - 14 V
R-AUTO ↔ GND (R8-9 ↔ R8-6)	W-L ↔ W-B	IG ON. Rear A/C rear seat AUTO indicator lights up.	Below 5.8 V
		IG ON. Rear A/C rear seat AUTO indicator does not light up.	10 - 14 V
EXO ↔ GND (R8-13 ↔ R8-6)	L ↔ W-B	IG ON. Front A/C blower motor operates. Push "FRESH" switch. Rear A/C AUTO mode. Rear A/C switch OFF.	10 - 14 V
		IG ON. Front A/C blower motor operates. Push "FRESH" switch. Rear A/C AUTO mode. Rear A/C switch ON.	Below 1.0 V
ROO ↔ GND (R8-14 ↔ R8-6)	B ↔ W-B	IG ON. Front A/C blower motor operates. Push "FRESH" switch. Rear A/C AUTO mode. Rear A/C switch OFF.	10 - 14 V
		IG ON. Front A/C blower motor operates. Push "FRESH" switch. Rear A/C AUTO mode. Rear A/C switch ON.	Below 1.0 V

## DIAGNOSTICS - AIR CONDITIONING SYSTEM

Symbols (Terminals No.)	Wiring Color	Condition	STD Voltage (V)
RFR ↔ GND (R8-15 ↔ R8-6)	G-B ↔ W-B	IG ON. Rear A/C blower motor speed except "HI".	10 - 14 V
		IG ON. Rear A/C blower motor speed "HI".	Below 1.0 V
		During actuator check mode. Display code 0	10 - 14 V
		Display code 2	Below 1.0 V
RHR ↔ GND (R8-16 ↔ R8-6)	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