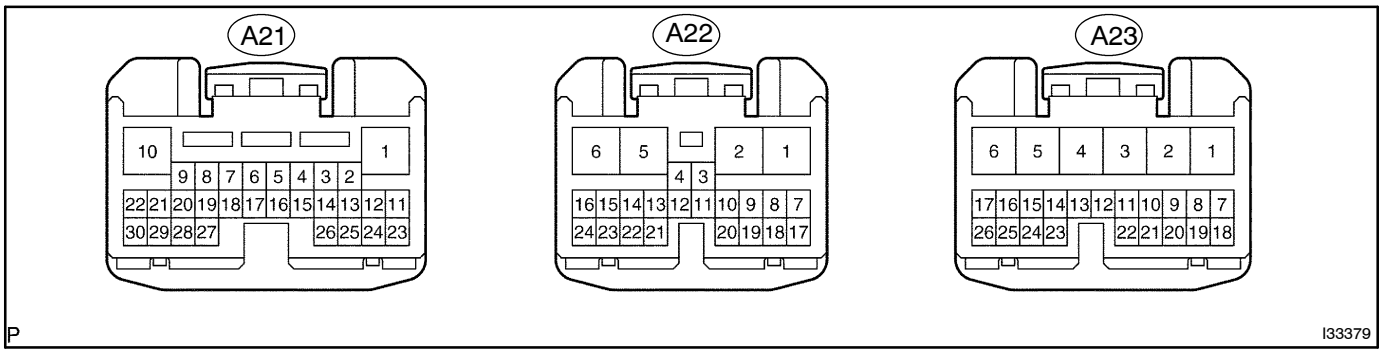
05BPP–01

TERMINALS OF ECU

1. AIR CONDITIONER AMPLIFIER ASSY



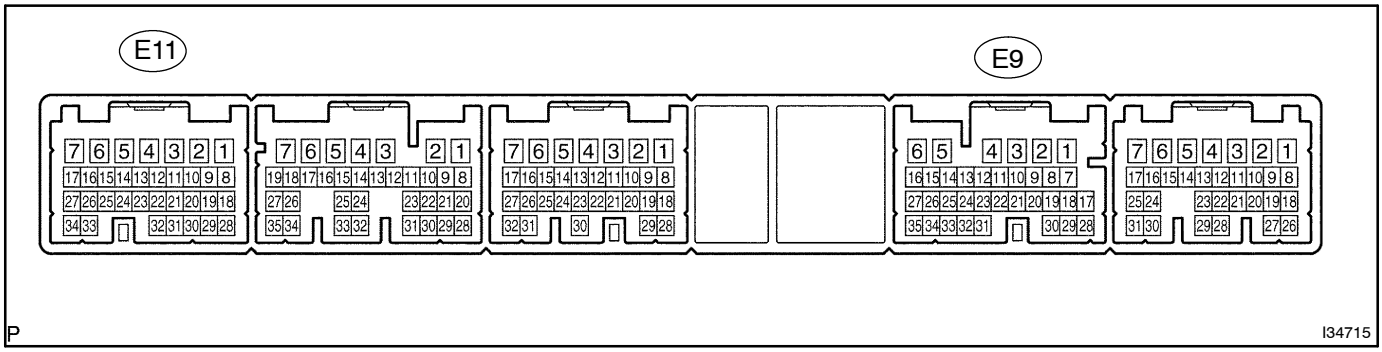
Terminal No. (Symbols)	Wiring Color	Condition	STD Voltage (V)
A21–3 ⇔ A23–6 (SPD ⇔ GND)	V–R ⇔ W–B	Start engine and turn wheel	Pulse generation
A21–5 ⇔ A23–17 (TAMIN ⇔ SG)	G–O ⇔ Y–G	IG SW: ON	Pulse generation
A21–6 ⇔ A23–6 (BLC ⇔ GND)	LG–B ⇔ W–B	IG SW: ON Front blower: Operate	Pulse generation
A21–7 ⇔ A23–6 (PSW ⇔ GND)	LG–R ⇔ W–B	Start engine Refrigerant pressure: Normal → Less than 196 kPa (2.0 kgf/cm^2, 28 psi) or more than 3,140 kPa (32.0 kgf/cm^2, 455 psi)	Below 1.0
A21–8 ⇔ A23–6 (ACT ⇔ GND)	Y–G ⇔ W–B	IG SW: ON Magnetic clutch: OFF → ON	Below 1.0 → 10 to 14
A21–9 ⇔ A23–6 (TWI ⇔ GND)	P–B ⇔ W–B	IG SW: ON	Pulse generation
A21–13 ⇔ A23–6 (RRAUTO ⇔ GND)	G–B ⇔ W–B	IG SW: ON Rear AUTO SW: OFF → ON	5 → Below 1.0
A21–14 ⇔ A23–6 (RRLO ⇔ GND)	LG–B ⇔ W–B	IG SW: ON Rear blower: OFF → LO	5 → Below 1.0
A21–15 ⇔ A23–6 (RRME ⇔ GND)	R ⇔ W–B	IG SW: ON Rear blower: OFF → MIDDLE	5 → Below 1.0
A21–16 ⇔ A23–6 (RRHI ⇔ GND)	Y ⇔ W–B	IG SW: ON Rear blower: OFF → HI	5 → Below 1.0
A21–17 ⇔ A23–6 *1 (S–OFF ⇔ GND)	L ⇔ W–B	IG SW: ON OFF SW: OFF → ON	5 → Below 1.0
A21–18 ⇔ A23–6 *1 (S–TEMPD+ ⇔ GND)	W ⇔ W–B	IG SW: ON TEMPDr UP SW: OFF → ON	5 → Below 1.0
A21–19 ⇔ A23–6 *1 (S–TEMPD– ⇔ GND)	B–O ⇔ W–B	IG SW: ON TEMPDr DOWN SW: OFF → ON	5 → Below 1.0
A21–20 ⇔ A23–6 *1 (S–R/F ⇔ GND)	G ⇔ W–B	IG SW: ON R/F SW: OFF → ON	5 → Below 1.0
A21–22 ⇔ A23–6 *1 (MPX– ⇔ GND)	B ⇔ W–B	IG SW: ON	Pulse generation
A21–23 ⇔ A23–6 *1 (S–TEMPP+ ⇔ GND)	LG ⇔ W–B	IG SW: ON TEMPPa UP SW: OFF → ON	5 → Below 1.0
A21–24 ⇔ A23–6 *1 (S–TEMPP– ⇔ GND)	O ⇔ W–B	IG SW: ON TEMPPa DOWN SW: OFF → ON	5 → Below 1.0
A21–25 ⇔ A23–6 *1 (S–FDEF ⇔ GND)	Y–B ⇔ W–B	IG SW: ON FDEF SW: OFF → ON	5 → Below 1.0
A21–26 ⇔ A23–6 *1 (S–RDEF ⇔ GND)	GR ⇔ W–B	IG SW: ON RDEF SW: OFF → ON	5 → Below 1.0
A21–27 ⇔ A23–6 *2 (ILL– ⇔ GND)	W–G ⇔ W–B	Always	Continuity

Terminal No. (Symbols)	Wiring Color	Condition	STD Voltage (V)
A21–27 ⇔ A23–6 *1 (S–AUTO ⇔ GND)	R–B ⇔ W–B	IG SW: ON AUTO: ON	5 → Below 1.0
A21–28 ⇔ A23–6 (C–BOXIN ⇔ GND)	BR–Y ⇔ W–B	IG SW: ON Cool box switch: OFF → ON	10 to 14 → Below 1.0
A21–29 ⇔ A23–6 *3 (VER4 ⇔ GND)	W–B ⇔ W–B	Always	Continuity
A21–30 ⇔ A23–6 *1 (MPX+ ⇔ GND)	W–G ⇔ W–B	IG SW: ON	Pulse generation
A22–1 ⇔ A23–6 (AIF ⇔ GND)	P–G ⇔ W–B	IG SW: ON R/F SW: RECIRCULATION → FRESH	Below 1.0 → 10 to 14
A22–2 ⇔ A23–6 (AIR ⇔ GND)	P–L ⇔ W–B	IG SW: ON R/F SW: FRESH → RECIRCULATION	Below 1.0 → 10 to 14
A22–3 ⇔ A23–6 (RRDEF ⇔ GND)	R ⇔ W–B	Rear defogger SW: ON → OFF	Below 1.0 → 10 to 14
A22–4 ⇔ A23–6 (FRHR ⇔ GND)	L ⇔ W–B	IG SW: ON Front blower: OFF → Operate	10 to 14 → Below 1.0
A22–5 ⇔ A23–6 (FACE ⇔ GND)	LG–R ⇔ W–B	IG SW: ON Mode switch: DEF → FACE	Below 1.0 → 10 to 14
A22–6 ⇔ A23–6 (DEF ⇔ GND)	LG ⇔ W–B	IG SW: ON Mode switch: FACE → DEF	Below 1.0 → 10 to 14
A22–7 ⇔ A23–6 (FRMGV ⇔ GND)	V–W ⇔ W–B	IG SW: ON Cool box switch: OFF → ON	10 to 14 → Below 1.0
A22–8 ⇔ A23–6 (AC1 ⇔ GND)	Y–R ⇔ W–B	IG SW: ON Magnetic clutch: OFF → ON	10 to 14 → Below 1.0
A22–11 ⇔ A23–6 *1 (L–FDEF ⇔ GND)	G–R ⇔ W–B	IG SW: ON FDEF SW: OFF → ON TAIL SW: OFF	10 to 14 → Below 1.0
A22–12 ⇔ A23–6 *1 (L–RDEF ⇔ GND)	L–R ⇔ W–B	IG SW: ON RDEF SW: OFF → ON TAIL SW: OFF	10 to 14 → Below 1.0
A22–13 ⇔ A23–6 *1 (L–REC ⇔ GND)	V ⇔ W–B	IG SW: ON R/F SW: OFF → ON TAIL SW: OFF	10 to 14 → Below 1.0
A22–14 ⇔ A23–6 *1 (L–FRS ⇔ GND)	R ⇔ W–B	IG SW: ON R/F SW: ON → OFF TAIL SW: OFF	10 to 14 → Below 1.0
A22–17 ⇔ A23–6 (RRMGV ⇔ GND)	V–Y ⇔ W–B	IG SW: ON Rear cool switch: OFF → ON	10 to 14 → Below 1.0
A22–18 ⇔ A23–6 *1 (L–AUTO ⇔ GND)	P ⇔ W–B	IG SW: ON AUTO SW: OFF → ON TAIL SW: OFF	10 to 14 → Below 1.0
A22–19 ⇔ A23–6 (RRVM ⇔ GND)	B–R ⇔ W–B	IG SW: ON Rear cool blower: Operate	0 to 10
A22–20 ⇔ A23–6 (RRBLW ⇔ GND)	B ⇔ W–B	IG SW: ON Rear cool blower: Operate	1 to 8
A22–21 ⇔ A23–6 (MGC ⇔ GND)	W ⇔ W–B	Engine start A/C switch: OFF → ON	10 to 14 → Below 1.0
A22–22 ⇔ Body ground *5 (VER1 ⇔ Body ground)	W–B ⇔ Body ground	Always	Continuity
A22–23 ⇔ Body ground *4 (VER2 ⇔ Body ground)	W–B ⇔ Body ground	Always	Continuity
A22–24 ⇔ A23–6 (RRHR ⇔ GND)	G–B ⇔ W–B	IG SW: ON Front blower: OFF → ON	10 to 14 → Below 1.0
A23–1 ⇔ A23–6 (IG ⇔ GND)	GR–L ⇔ W–B	IG SW: LOCK → ON	10 to 14

Terminal No. (Symbols)	Wiring Color	Condition	STD Voltage (V)
A23–2 ⇔ A23–6 (AMHP ⇔ GND)	L–R ⇔ W–B	IG SW: ON Set temp.: MAX. COOL → MAX. HOT	Below 1.0 → 10 to 14
A23–3 ⇔ A23–6 (AMCP ⇔ GND)	L–Y ⇔ W–B	IG SW: Set temp.: MAX HOT → MAX. COOL	Below 1.0 → 10 to 14
A23–4 ⇔ A23–6 (AMHD ⇔ GND)	V–W ⇔ W–B	IG SW: Set temp.: MAX. COOL → MAX. HOT	Below 1.0 → 10 to 14
A23–5 ⇔ A23–6 (AMCD ⇔ GND)	V–R ⇔ W–B	IG SW: Set temp.: MAX HOT → MAX. COOL	Below 1.0 → 10 to 14
A23–6 ⇔ Body ground (GND ⇔ Body ground)	W–B ⇔ Body ground	Always	Continuity
A23–7 ⇔ A23–6 (+B ⇔ GND)	W–R ⇔ W–B	Always	10 to 14
A23–8 ⇔ Body ground (VSW ⇔ Body ground)	G–Y ⇔ Body ground	IG SW: ON Solar sensor subject to electric light	0.8 to 3.3
A23–9 ⇔ A23–17 (TPD ⇔ SG)	V–W ⇔ Y–G	IG SW: ON Set temp.: MAX HOT → MAX. COOL	1.0 to 4.0
A23–10 ⇔ A23–17 (TPP ⇔ SG)	L–W ⇔ Y–G	IG SW: ON Set temp.: MAX HOT → MAX. COOL	1.0 to 4.0
A23–11 ⇔ Body ground (TSD ⇔ Body ground)	B ⇔ Body ground	IG SW: ON Solar sensor subject to electric light	0.8 to 3.3
A23–12 ⇔ Body ground (TSP ⇔ Body ground)	R ⇔ Body ground	IG SW: ON Solar sensor subject to electric light	0.8 to 3.3
A23–13 ⇔ A23–17 (TR ⇔ SG)	V–Y ⇔ Y–G	IG SW: ON Cabin temp.: 25°C (77°F) → 40°C (104°F)	1.8 to 2.2 → 1.2 to 1.6
A23–14 ⇔ A23–17 (FRTE ⇔ SG)	G ⇔ Y–G	Evaporator temp.: 0°C (32°F) → 15°C (59°F)	2.0 to 2.4 → 1.4 to 1.8
A23–17 ⇔ Body ground (SG ⇔ Body ground)	Y–G ⇔ Body ground	Always	Continuity
A23–18 ⇔ A23–6 *2 (ILL+ ⇔ GND)	G ⇔ W–B	Light control switch TAIL or HEAD	10 to 14
A23–20 ⇔ A23–17 (RRTB ⇔ SG)	Y–R ⇔ Y–G	IG SW: ON Rear cool blower: Operate	Pulse generation
A23–21 ⇔ A23–17 (RRTE ⇔ SG)	L–O ⇔ Y–G	Rear evaporator temp.: 0°C (32°F) → 15°C (59°F)	2.0 to 2.4 → 1.4 to 1.8
A23–22 ⇔ A23–17 (TPI ⇔ SG)	P–B ⇔ Y–G	IG SW: ON R/F switch FRESH → RECIRCULATION	1.0 to 4.0
A23–23 ⇔ A23–17 (TPM ⇔ SG)	LG–R ⇔ Y–G	IG SW: ON Set air flow setting: DEF → FACE	1.0 to 4.0
A23–26 ⇔ A23–17 (S5 ⇔ SG)	P ⇔ Y–G	IG SW: LOCK → ON	0 to 5.0

*1: w/ EMV
*2: w/o EMV
*3: Europe Models
*4: Except Europe Models
*5: LHD Models

2. ECM



Terminal No. (Symbols)	Wiring Color	Condition	STD Voltage (V)
E11 – 28 ⇔ Body ground (E2 ⇔ Body ground)	BR ⇔ Body ground	Always	Continuity
E9–14 ⇔ E11–28 (THWO ⇔ E2)	P–B ⇔ BR	IG SW: ON	Pulse generation