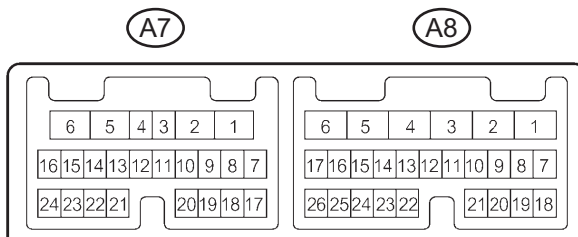


TERMINALS OF ECU

1. AIR CONDITIONING AMPLIFIER



H

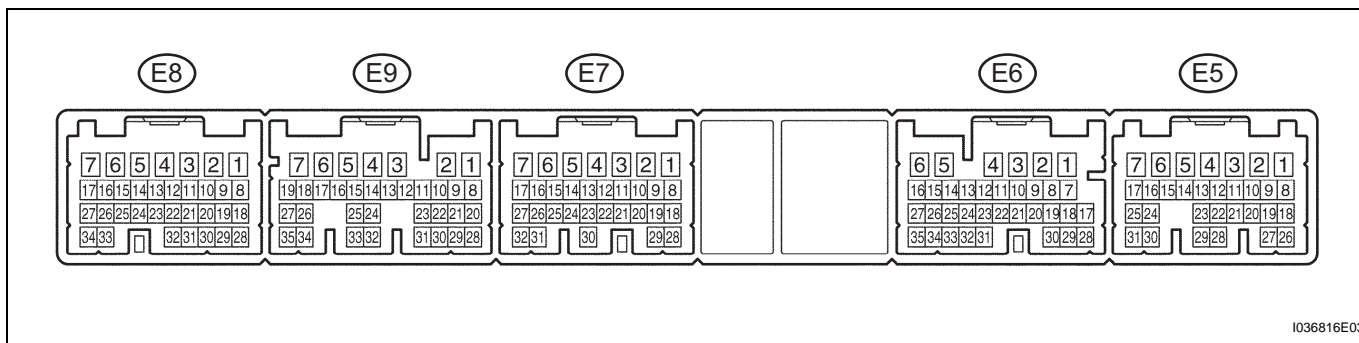
I036815E01

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
AIR (A7-3) - GND (A8-6)	R - W-B	R/F switch	Ignition switch: ON R/F switch: FRESH → RECIRC	Below 1.0 → 11 to 14 V
AIF (A7-4) - GND (A8-6)	G - W-B	R/F switch	Ignition switch: ON R/F switch: RECIRC → FRESH	Below 1.0 → 11 to 14 V
AOF (A7-5) - GND (A8-6)	W - W-B	Mode switch	Ignition switch: ON Mode switch: DEF → FACE	Below 1.0 → 11 to 14 V
AOD (A7-6) - GND (A8-6)	B - W-B	Mode switch	Ignition switch: ON Mode switch: FACE → DEF	Below 1.0 → 11 to 14 V
TPI (A7-7) - SG-4 (A7-17)	BR - L	R/F switch	Ignition switch: ON R/F switch: RECIRC → FRESH	4.0 → 1.0 V
TPO (A7-8) - SG-3 (A7-18)	Y - R	Mode switch	Ignition switch: ON Mode switch: FACE → DEF	4.0 → 1.0 V
TPD (A7-9) - SG-1 (A7-20)	P - BR	Temperature switch (Driver side)	Ignition switch: ON Driver temperature switch: Max. COOL → Max. HOT	4.0 → 1.0 V
TPP (A7-10) - SG-2 (A7-19)	V - W	Temperature switch (Passenger side)	Ignition switch: ON Passenger temperature switch: Max. COOL → Max. HOT	4.0 → 1.0 V
SG (A7-11) - Body ground	L - Body ground	Ground for evaporator temperature sensor	Always	Below 1.0 Ω
TE (A7-12) - SG (A7-11)	GR - L	Evaporator temperature sensor	Ignition switch: ON Evaporator temperature: 0 → 15°C (32 → 59°F)	2.0 to 2.4 → 1.4 to 1.8 V
S5-4 (A7-13) - SG-4 (A7-17)	B - L	Power supply for air inlet damper position sensor	Ignition switch: ON	4.5 to 5.5 V
AMDC (A7-14) - GND (A8-6)	LG - W-B	Temperature switch (Driver side)	Ignition switch: ON Driver temperature switch: Max. HOT → Max. COOL	Below 1.0 → 11 to 14 V
AMDH (A7-15) - GND (A8-6)	O - W-B	Temperature switch (Driver side)	Ignition switch: ON Driver temperature switch: Max. COOL → Max. HOT	Below 1.0 → 11 to 14 V
AMPC (A7-16) - GND (A8-6)	R - W-B	Temperature switch (Passenger side)	Ignition switch: ON Passenger temperature switch: Max. HOT → Max. COOL	Below 1.0 → 11 to 14 V
SG-4 (A7-17) - Body ground	L - Body ground	Ground for air inlet damper position sensor	Always	Below 1.0 Ω
SG-3 (A7-18) - Body ground	R - Body ground	Ground for air outlet damper position sensor	Always	Below 1.0 Ω
SG-2 (A7-19) - Body ground	W - Body ground	Ground for air mix damper position sensor (Passenger side)	Always	Below 1.0 Ω
SG-1 (A7-20) - Body ground	BR - Body ground	Ground for air mix damper position sensor (Driver side)	Always	Below 1.0 Ω

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
S5-3 (A7-21) - SG-3 (A7-18)	V - R	Power supply for air outlet damper position sensor	Ignition switch: ON	4.5 to 5.5 V
S5-2 (A7-22) - SG-2 (A7-19)	L - W	Power supply for air mix damper position sensor (Passenger side)	Ignition switch: ON	4.5 to 5.5 V
S5-1 (A7-23) - SG-1 (A7-20)	GR - BR	Power supply for air mix damper position sensor (Driver side)	Ignition switch: ON	4.5 to 5.5 V
AMPH (A7-24) - GND (A8-6)	G - W-B	Temperature switch (Passenger side)	Ignition switch: ON Passenger temperature switch: Max. COOL → Max. HOT	Below 1.0 → 11 to 14 V
IG+ (A8-1) - GND (A8-6)	P - W-B	Ignition switch	Ignition switch: LOCK or ACC → ON	0 → 11 to 14 V
+B (A8-2) - GND (A8-6)	SB - W-B	Main power supply	Always	11 to 14 V
MPX+ (A8-3) - GND (A8-6)	BR - W-B	Terminal for BEAN	Engine idling after engine warmed up	Pulse generation
MPX- (A8-4) - GND (A8-6)	GR - W-B	Terminal for BEAN	Engine idling after engine warmed up	Pulse generation
GND (A8-6) - Body ground	W-B - Body ground	Ground for main power supply	Always	Below 1.0 Ω
FDEF (A8-8) - GND (A8-6)	B - W-B	Front deicer switch	Ignition switch: ON Front deicer switch: OFF → ON	11 to 14 → Below 1.0 V
BLW (A8-9) - GND (A8-6)	L - W-B	Blower switch	Ignition switch: ON Blower switch: ON	Pulse generation
TSD (A8-10) - GND (A8-6)	R - W-B	Solar sensor (Driver side)	Ignition switch: ON Solar sensor covered with a cloth → Solar sensor exposed to electric light	Below 0.8 → 4.0 to 4.6 V
TSP (A8-11) - GND (A8-6)	Y - W-B	Solar sensor (Passenger side)	Ignition switch: ON Solar sensor covered with a cloth → Solar sensor exposed to electric light	Below 0.8 → 4.0 to 4.6 V
HR (A8-18) - GND (A8-6)	W - W-B	Blower switch	Ignition switch: ON Blower switch: OFF → ON	11 to 14 → Below 1.0 V
DFG (A8-19) - GND (A8-6)	G - W-B	Rear defogger switch	Ignition switch: ON Rear defogger switch: OFF → ON	11 to 14 → Below 1.0 V
TR (A8-21) - SG-5 (A8-26)	O - V	Room temperature sensor	Ignition switch: ON Cabin temperature: 25 → 40°C (77 → 104°F)	1.8 to 2.2 → 1.2 to 1.6 V
SG-5 (A8-26) - Body ground	V - Body ground	Ground for room temperature sensor	Always	Below 1.0 Ω

AC

2. ECM

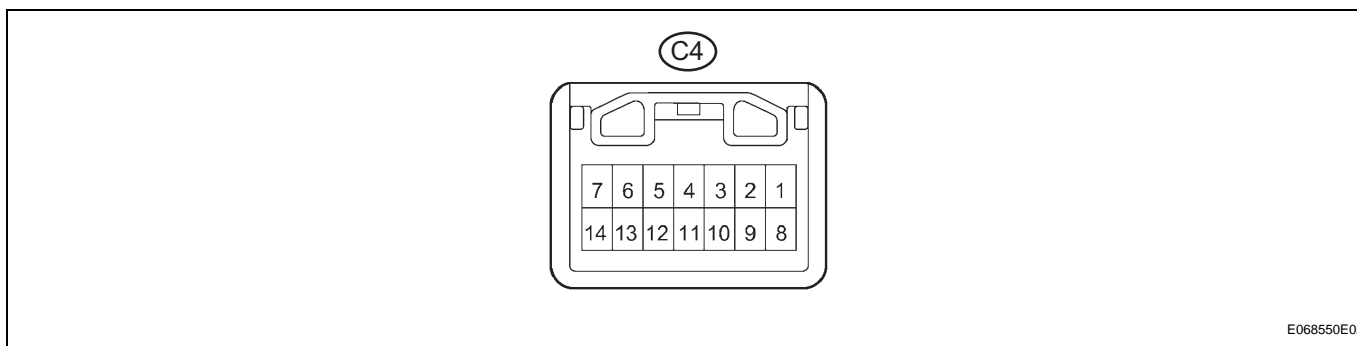


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Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
THW (E8-19) - E2 (E8-28)	G-B - BR	Coolant temperature	Engine idling after engine warmed up Coolant temperature: 60 to 120°C (140 to 248°F)	0.2 to 1.0 V

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
E2 (E8-28) - Body ground	BR - Body ground	Ground for power supply	Always	Below 1 Ω
E1 (E7-1) - Body ground	BR - Body ground	Ground for power supply	Always	Below 1 Ω
LCKI (E7-23) - E1 (E7-1)	W-L - BR	Compressor lock	Engine idling A/C switch: ON (Magnet clutch: ON)	Pulse generation
HP (E6-1) - Body ground	Y - Body ground	Pressure switch	Start engine Refrigerant pressure: Normal → More than 1,520 kPa (15.5 kgf/cm ² , 220psi)	Below 1.0 → 11 to 14 V
ACMG (E6-2) - E1 (E7-1)	O - BR	Compressor	Engine idling Magnet clutch: OFF → ON	11 to 14 → Below 1.0 V
MPX1 (E6-18) - E1 (E7-1)	R - BR	Terminal for BEAN	Engine idling after engine warmed up	Pulse generation
MPX2 (E6-29) - E1 (E7-1)	O - BR	Terminal for BEAN	Engine idling after engine warmed up	Pulse generation
TAM (E6-32) - E2 (E8-28)	V - BR	Ambient temperature sensor	Ambient temperature: 25°C (77°F)	1.24 to 1.84 V

3. CENTER CLUSTER INTEGRATION (W/O LEXUS NAVIGATION SYSTEM)



E068550E02

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
+B (C4-1) - GND (C4-7)	O - W-B	Main power supply	Always	11 to 14 V
ACC (C4-2) - GND (C4-7)	GR - W-B	ACC power supply	Ignition switch: ACC	11 to 14 V
LP (C4-4) - GND (C4-7)	P - W-B	Security indicator	Security: Operate	11 to 14 V
MPX+ (C4-5) - GND (C4-7)	L - W-B	Terminal for BEAN	Ignition switch: ON	Pulse generation
GND (C4-7) - Body ground	W-B - Body ground	Ground for power supply	Always	Below 1.0 V
ILL+ (C4-8) - ILL- (C4-14)	G - W	Power supply for night illumination	Dimmer switch: OFF → TAIL	Below 1.0 → 11 to 14 V
IG+ (C4-9) - GND (C4-7)	LG - W-B	IG power supply	Ignition switch: ON	11 to 14 V
F (C4-11) - GND (C4-7)	V - W-B	Hazard switch	Hazard switch: OFF → ON	11 to 14 → Below 1.0 V
MPX- (C4-12) - GND (C4-7)	GR - W-B	Terminal for BEAN	Ignition switch: ON	Pulse generation
ILL- (C4-14) - Body ground	W - Body ground	Ground for night illumination	Always	Below 1.0 V

4. MULTI DISPLAY ASSEMBLY (W/ LEXUS NAVIGATION SYSTEM)

HINT:

See page [NS-37](#).