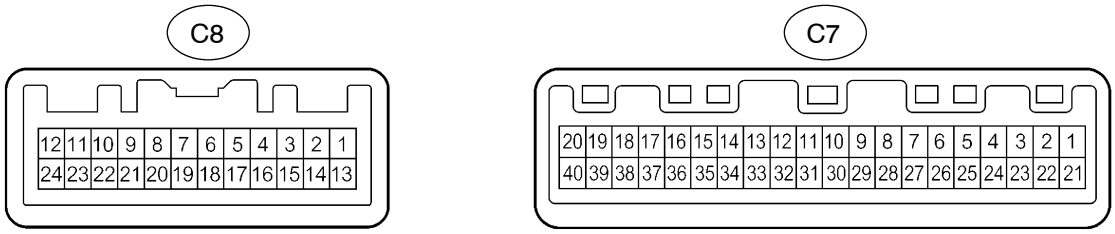
05ME7–01

TERMINALS OF ECU

COMBINATION METER ASSY



I43821

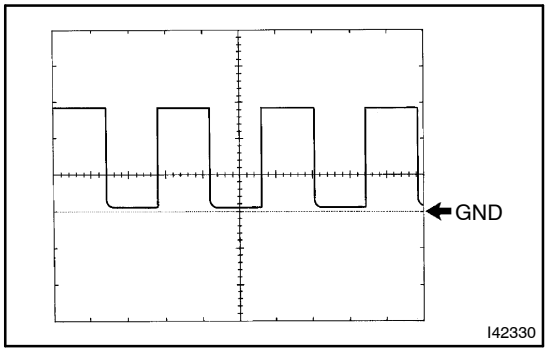
Terminal No.	Wiring color	Condition	Specified condition
C7–1 (+B) – C7–20	W – W	Always	10 to 14 V
C7–2 (A/T P) – C7–20	W – W	Ignition switch ON and A/T P indicator light OFF → ON	Below 1 V → 10 to 14 V
C7–3 (TURN R) – C7–20	SB – W	Ignition switch ON and right turn indicator light OFF → ON	Below 1 V → 10 to 14 V
C7–4 (TURN L) – C7–20	SB – W	Ignition switch ON and left turn indicator light OFF → ON	Below 1 V → 10 to 14 V
C7–5 (A/T R) – C7–20	W – W	Ignition switch ON and A/T R indicator light OFF → ON	Below 1 V → 10 to 14 V
C7–7 (Fr FOG) – C7–20	SB – W	Ignition switch ON and front fog light OFF → ON	Below 1 V → 10 to 14 V
C7–8 (ACC) – C7–20	W – W	Ignition switch OFF → ON	Below 1 V → 10 to 14 V
C7–9 (ST) – C7–20	W – W	Always	Below 1 V → 10 to 14 V
C7–10 (Rr FOG) – C7–20	W – W	Ignition switch ON and rear fog light OFF→ ON	Below 1 V → 10 to 14 V
C7–11 (TACHO SIGNAL) – C7–20	W – W	Engine idle speed	Pulse generation (See wave form 1)
C7–12 (WATER TEMP) – C7–20	W – W	Ignition switch ON, coolant temperature is 80 to 95°C (176 to 203°F)	Pulse generation (See wave form 2)
C7–13 (CRUISE) – C7–20	W – W	CRUISE indicator light ON → OFF	Below 1 V → 10 to 14 V
C7–14 (D–BELT) – C7–20	W – W	Ignition switch ON and driver side seat belt warning light ON → OFF	Below 1 V → 10 to 14 V
C7–15 (BEAM–) – Body ground	SB – Body ground	Always	Below 1 Ω
C7–16 (BRAKE LEVEL SW) (*1) – C7–20	W – W	Ignition switch ON and BRAKE warning light ON → OFF	Below 1 V → 10 to 14 V
C7–18 (OIL LEVEL SW) (*2) – C7–20	W – W	Ignition switch ON and oil level indicator light ON → OFF	Below 1 V → 10 to 14 V
C7–20 (SIGNAL EARTH) – Body ground	W – Body ground	Always	Below 1 Ω
C7–21 (IG+) – C7–20	W – W	Ignition switch OFF → ON	Below 1 V → 10 to 14 V
C7–22 (A/T N) – C7–20	W – W	Ignition switch ON and A/T N indicator light OFF → ON	Below 1 V → 10 to 14 V
C7–23 (A/T D) – C7–20	W – W	Ignition switch ON and A/T D indicator light OFF → ON	Below 1 V → 10 to 14 V
C7–24 (A/T 2) – C7–20	W – W	Ignition switch ON and A/T 2 indicator light OFF → ON	Below 1 V → 10 to 14 V

C7–25 (A/T L) – C7–20	W – W	Ignition switch ON and A/T L indicator light OFF → ON	Below 1 V → 10 to 14 V
C7–26 (ILL+) – C7–20	W – W	Light control switch OFF → TAIL	Below 1 V → 10 to 14 V
C7–27 (CHG+) – C7–20	SB – W	Ignition switch OFF → ON	Below 1 V → 10 to 14 V
C7–28 (BEAM+) – C7–20	SB – W	Headlight dimmer switch OFF → ON	Below 1 V → 10 to 14 V
C7–30 (A/T P or N) – C7–20	W – W	Ignition switch ON and A/T N or P indicator light OFF → ON	Below 1 V → 10 to 14 V
C7–31 (AIR BAG) – C7–39	SB – W	Ignition switch ON and SRS warning light OFF → ON	4.6 to 0.35 V
C7–33 (CHG–) – C7–20	SB – W	Ignition switch ON and CHARGE indicator light ON → OFF	Below 1 V → 10 to 14 V
C7–34 (OIL PRESSURE SW) – C7–20	W – W	Ignition switch ON and oil pressure warning light OFF → ON	Below 1 V → 10 to 14 V
C7–35 (SPEED SIGNAL) – C7–20	W – W	Ignition switch ON and turn front wheel slowly	Pulse generation (See wave form 3)
C7–36 (4P OUT) – C7–20	W – W	Ignition switch ON and turn front wheel slowly	Pulse generation (See wave form 3)
C7–39 (P–BELT) – C7–20	W – W	Ignition switch ON and sit on the passenger's seat, passenger side seat belt warning light ON → OFF	Below 1 V → 10 to 14 V
C7–40 (FUEL EARTH) – Body ground	W – Body ground	Always	Below 1 Ω
C8–1 (RHEOSTAT EARTH) – C7–20	G – W	Always	Below 1 Ω
C8–3 (PKB (ABS)) – C7–20	R–Y – W	Ignition switch ON and parking brake switch is not operated → operate	Below 1 V → 5 V
C8–4 (ABS (ACTIVE)) – C7–20	R–B – W	Ignition switch ON and ABS warning light OFF → ON	Below 1 V → 10 to 14 V
C8–7 (TR) – C7–20	Y – W	Ignition switch OFF → ON	Below 1 V → 4 to 7 V
C8–8 (KEY BUZZER) – C7–20	LG – W	Ignition switch OFF and key reminder buzzer sound → no sound	Below 1 V → 10 to 14 V
C8–9 (DOOR OPEN) – C7–20	R–B – W	Ignition switch ON and door open → close	Below 1 V → 10 to 14 V
C8–10 (LAMP FAILURE) – C7–20	V – W	Ignition switch ON and light failure indicator light ON → OFF	Below 1 V → 10 to 14 V
C8–13 (SLIP) (*3) – C7–20	LG – W	Ignition switch ON and SLIP indicator light ON → OFF	Below 1 V → 10 to 14 V
C8–14 (VSC FAIL) (*3) – C7–20	R–L – W	Ignition switch ON and VSC indicator light ON → OFF	Below 1 V → 10 to 14 V
C8–15 (TRC OFF) (*3) – C7–20	L – W	Ignition switch ON and TRC OFF indicator light ON → OFF	Below 1 V → 10 to 14 V
C8–16 (CHECK E/G) – C7–20	G–R – W	Ignition switch ON and check engine warning light ON → OFF	Below 1 V → 10 to 14 V
C8–17 (FUEL OUT) – C7–20	LG–R – W	Ignition switch ON	Pulse generation (See wave form 4)
C8–18 (FUEL INPUT) – C7–20	G–W – W	Ignition switch ON and fuel level EMPTY → FULL	Below 1 V → 4 to 7 V
C8–19 (FUEL BATT) – C7–20	Y–R – W	Always	5 V
C8–20 (TC) – C7–20	W – W	Ignition switch ON and tail cancel ON (rotates up the tail cancel switch) → OFF (rotates down the tail cancel switch)	Below 1 V → 4 to 7 V
C8–22 (O/D OFF) – C7–20	O – W	Ignition switch ON and O/D OFF indicator light ON → OFF	Below 1 V → 5 V

(*1): w/o VSC

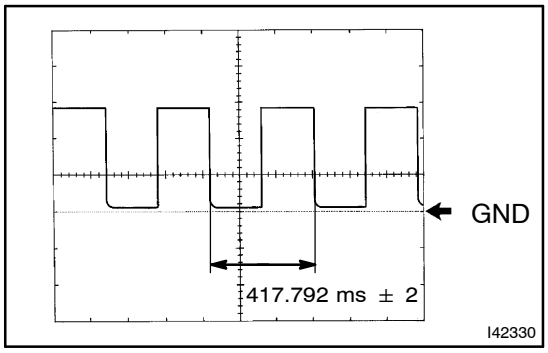
(*2): 1MZ–FE, 3MZ–FE

(*3): w/ VSC



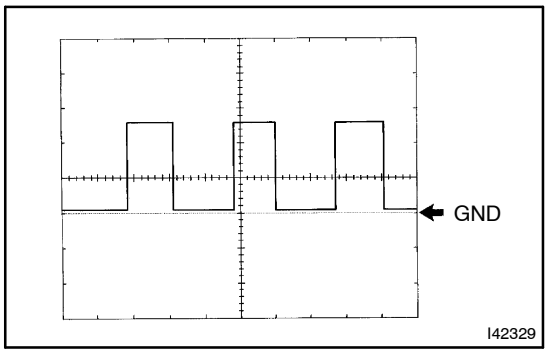
Wave form 1: Reference: Using oscilloscope:

Item	Condition
Tool setting	5 V/DIV, 10 ms/DIV
Vehicle condition	Engine idle speed



Wave form 2: Reference: Using oscilloscope:

Item	Condition
Tool setting	5 V/DIV, 100 ms/DIV
Vehicle condition	Ignition switch ON

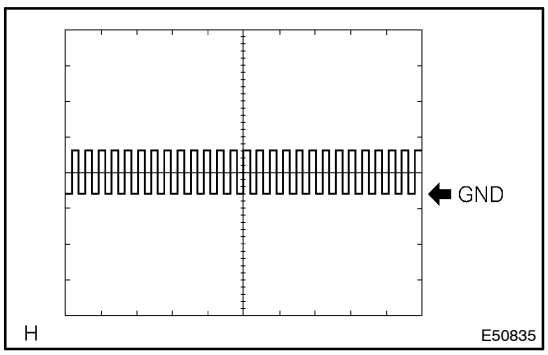


Wave form 3: Reference: Using oscilloscope:

Item	Condition
Tool setting	5 V/DIV, 20 ms/DIV
Vehicle condition	Driving at approx. 20 km/h

HINT:

As vehicle speed increases, the cycle of the signal wave form narrows.



Wave form 4: Reference: Using oscilloscope:

Item	Condition
Tool setting	10 V/ DIV, 20 ms/ DV
Vehicle condition	Engine idle speed