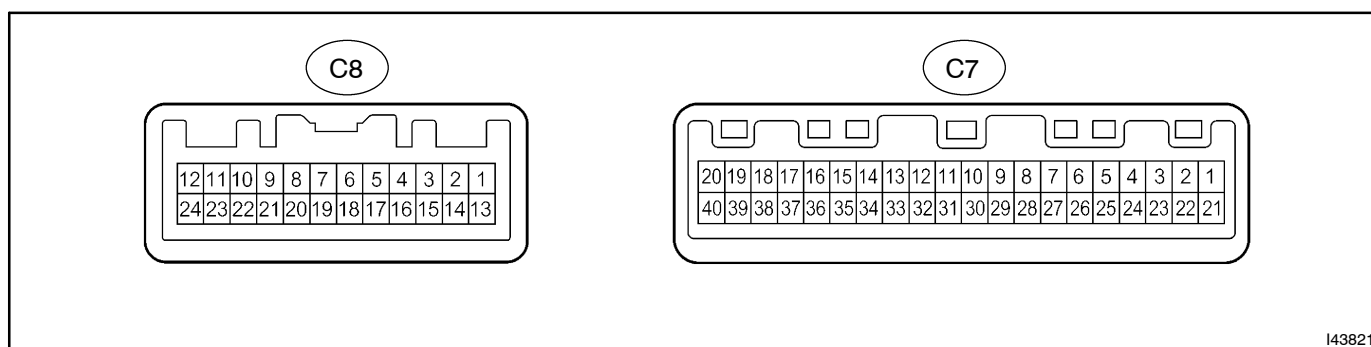


TERMINALS OF ECU COMBINATION METER ASSY



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

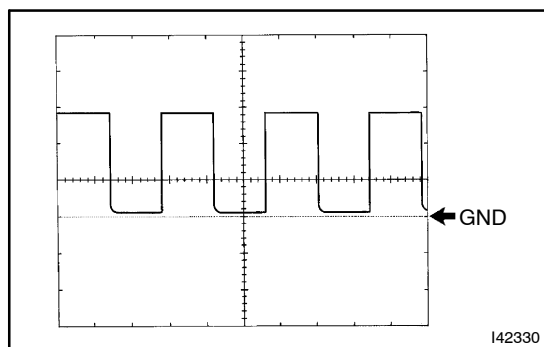
DIAGNOSTICS – COMBINATION METER

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

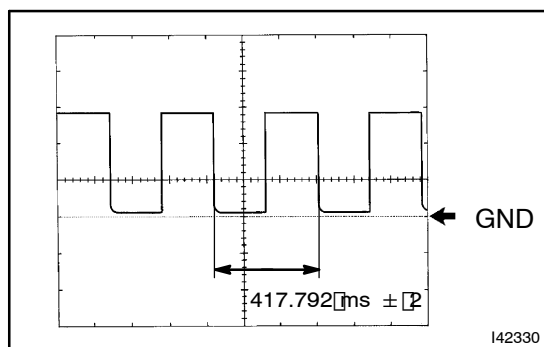
(*2): 1MZ-FE, 3MZ-FE

(*3): w/ VSC



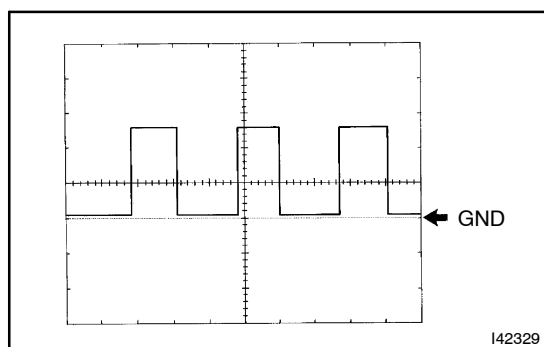
Wave form 1: Reference: Using oscilloscope:

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

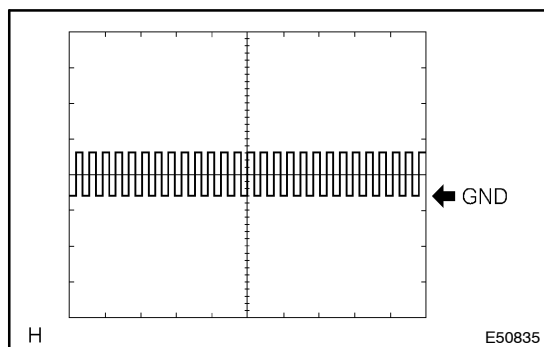


Wave form 3: Reference: Using oscilloscope:

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/ DIV
Vehicle condition	Engine idle speed