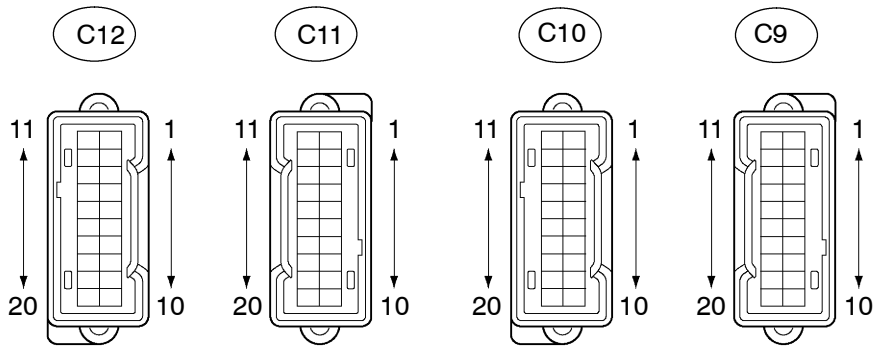
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TERMINALS OF ECU

COMBINATION METER ASSY

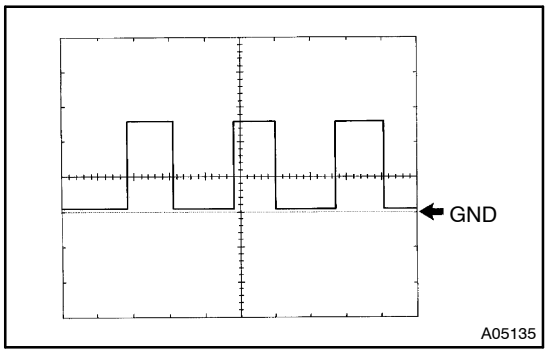


E66850

Terminal No.	Wiring color	Condition	Specified condition
C12–1 ⇔ Body ground	Y–B ⇔ Body ground	Ignition switch ON and Height control indicator N OFF → ON	10 – 14 V → Below 1 V
C12–2 ⇔ Body ground	BR–B ⇔ Body ground	Ignition switch ON and Height control indicator LO OFF → ON	10 – 14 V → Below 1 V
C12–3 ⇔ Body ground	Y–G ⇔ Body ground	Ignition switch ON and Height control indicator OFF OFF → ON	10 – 14 V → Below 1 V
C12–4 ⇔ Body ground	GR–R ⇔ Body ground	Ignition switch ON and 2nd Start indicator light OFF → ON	10 – 14 V → Below 1 V
C12–6 ⇔ Body ground	G ⇔ Body ground	Ignition switch ON and A/T P indicator light OFF → ON	Below 1 V ← 10 – 14 V
C12–7 ⇔ Body ground (A/T)	P ⇔ Body ground	Ignition switch ON and A/T Oil temp indicator light OFF → ON	10 – 14 V → Below 1 V
C12–9 ⇔ Body ground	BR ⇔ Body ground	Any Contents	Continuity
C12–10 ⇔ Body ground	BR ⇔ Body ground	Any Contents	Continuity
C12–11 ⇔ Body ground	Y ⇔ Body ground	Ignition switch ON and Height control indicator HI OFF → ON	10 – 14 V → Below 1 V
C12–12 ⇔ Body ground	G–O ⇔ Body ground	Ignition switch ON and Passenger side seat belt warning light OFF → ON	Below 1 V → 10 – 14 V
C12–13 ⇔ Body ground	W–L ⇔ Body ground	Ignition switch ON and Passenger side seat belt unfastened → fastened	Below 1 V → 10 – 14 V
C12–14 ⇔ Body ground	B ⇔ Body ground	Communication circuit	–
C12–15 ⇔ Body ground	P ⇔ Body ground	Communication circuit	–
C12–16 ⇔ Body ground	G–R ⇔ Body ground	Tail switch ON and rheostat switch Max position (TC position)	Continuity
C12–17 ⇔ Body ground	W–G ⇔ Body ground	Rheostat switch Min → Max	Below 1 V → 10 – 14 V
C12–18 ⇔ Body ground	G–R ⇔ Body ground	Ignition switch ON and A/T (L) indicator light OFF → ON	Below 1 V → 10 – 14 V
C12–19 ⇔ Body ground	R–L ⇔ Body ground	Ignition switch OFF → ON	Below 1 V → 10 – 14 V
C12–20 ⇔ Body ground	R ⇔ Body ground	Any Contents	10 – 14 V
C11–2 ⇔ Body ground	L–Y ⇔ Body ground	Turn signal RH indicator light OFF → ON	Below 1 V → 10 – 14 V
C11–3 ⇔ Body ground	W–L ⇔ Body ground	Rear fog light indicator light OFF → ON	Below 1 V → 10 – 14 V

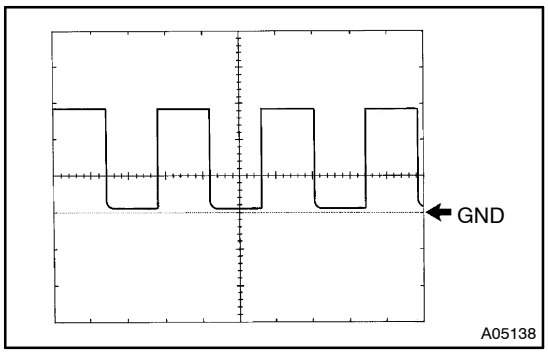
C11–4 ⇔ Body ground	R–W ⇔ Body ground	Any condition	10 – 14 V
C11–5 ⇔ Body ground	R–G ⇔ Body ground	Ignition switch ON and Beam indicator light OFF → ON	10 – 14 V → Below 1 V
C11–6 ⇔ Body ground	LG–B ⇔ Body ground	Front fog light indicator light OFF → ON	Below 1 V → 10 – 14 V
C11–7 ⇔ Body ground	L–B ⇔ Body ground	Turn signal LH indicator light OFF → ON	Below 1 V → 10 – 14 V
C11–8 ⇔ Body ground	B–L ⇔ Body ground	Ignition switch ON and Brake indicator light OFF → ON	Below 1 V → 10 – 14 V
C11–9 ⇔ Body ground	LG ⇔ Body ground	Ignition switch ON and Brake indicator light OFF → ON	10 – 14 V → Below 4 V
C11–10 ⇔ Body ground	LG–R ⇔ Body ground	Ignition switch ON and ABS indicator light OFF → ON	Below 1 V → 10 – 14 V
C11–12 ⇔ Body ground	W–B ⇔ Body ground	Any Contents	Continuity
C11–13 ⇔ Body ground	L ⇔ Body ground	Ignition switch ON and A/T (2) indicator light OFF → ON	Below 1 V → 10 – 14 V
C11–14 ⇔ Body ground	G–O ⇔ Body ground	Ignition switch ON and A/T (3) indicator light OFF → ON	Below 1 V ⇔ 10 – 14 V
C11–16 ⇔ Body ground	B–R/G–Y (3RZ Unleaded) ⇔ Body ground	Ignition switch ON and A/T (D) indicator light OFF → ON	Below 1 V → 10 – 14 V
C11–17 ⇔ Body ground	G–W ⇔ Body ground	Ignition switch ON and A/T (N) indicator light OFF → ON	Below 1 V → 10 – 14 V
C11–18 ⇔ Body ground	R–B ⇔ Body ground	Ignition switch ON and A/T (R) indicator light OFF → ON	Below 1 V → 10 – 14 V
C11–19 ⇔ Body ground	G–B ⇔ Body ground	Ignition switch ON and A/T (P) indicator light OFF → ON	Below 1 V → 10 – 14 V
C11–20 ⇔ Body ground	V–W ⇔ Body ground	Security indicator light OFF → ON	Below 1 V → 10 – 14 V
C10–1 ⇔ Body ground (1KD, 1KZ)	W ⇔ Body ground	Ignition switch OFF → ON	–
C10–3 ⇔ Body ground (3RZ)	R–L ⇔ Body ground	Ignition switch OFF → ON, Engine idle speed	Puls generation (*3)
C10–4 ⇔ Body ground	BR–R ⇔ Body ground	Ignition switch ON and Fuel level is full → empty	Below 2 V → 6 V
C10–5 ⇔ Body ground (3RZ)	P–B ⇔ Body ground	Ignition switch ON and Temperature gauge COOL → HOT	Below 2.5 V → 1.5 V
C10–6 ⇔ Body ground (Diesel)	P ⇔ Body ground	Communication Circuit	Continuity
C10–8 ⇔ Body ground	B–Y ⇔ Body ground	Ignition switch ON and SRS indicator light OFF → ON	Below 1 V → 10 – 14 V
C10–9 ⇔ Body ground	V–Y ⇔ Body ground	Door close → open	Below 1 V ← 10 – 14 V
C10–11 ⇔ Body ground	LG–B ⇔ Body ground	Ignition switch OFF and buzzer sound → no sound	Below 1 V → 10 – 14 V
C10–12 ⇔ Body ground	B–Y ⇔ Body ground	Ignition ON → START	10 – 14 V ⇔ Below 1 V
C10–13 ⇔ Body ground	B–W ⇔ Body ground	Ignition switch OFF → ON, Engine idle speed	Puls generation (*2)
C10–14 ⇔ Body ground	V–R ⇔ Body ground	Ignition switch ON and turn the wheel slowly	Puls generation (*1)
C10–15 ⇔ Body ground	P–L ⇔ Body ground	Ignition switch ON and turn the wheel slowly	Puls generation (*1)
C10–16 ⇔ Body ground (Diesel)	L–R ⇔ Body ground	Sediment indicator OFF → ON	Below 1 V ← 10 – 14 V

C10–18 ⇔ Body ground (1KD, 1KZ)	W ⇔ Body ground	Ignition switch ON and Oil level indicator light OFF → ON	Below 1 V ← 10 – 14 V
C10–19 ⇔ Body ground	L–B ⇔ Body ground	Driver side door is close → open	Below 1 V ← 10 – 14 V
C9–4 ⇔ Body ground	LG ⇔ Body ground	Ignition switch ON and CRUISE indicator light OFF → ON	10 – 14 V → Below 1 V
C9–5 ⇔ Body ground (Diesel)	Y–R ⇔ Body ground	Ignition switch ON and glow indicator is OFF → ON	10 – 14 V ⇔ Below 1 V
C9–8 ⇔ Body ground	GR ⇔ Body ground	Ignition switch ON and Charge indicator light OFF → ON	10 – 14 V → Below 1 V
C9–9 ⇔ Body ground	LG–B ⇔ Body ground	Ignition switch ON and oil pressure indicator light OFF → ON	10 – 14 V → Below 1 V
C9–10 ⇔ Body ground	R–B/L–Y (3RZ Unleaded) ⇔ Body ground	Ignition switch ON and Check engine warning light OFF → ON	10 – 14 V → Below 1 V
C9–13 ⇔ Body ground	G ⇔ Body ground	Combination switch OFF → Tail	Below 1 V → 10 – 14 V
C9–14 ⇔ Body ground (w/ VSC, A/T)	BR–Y ⇔ Body ground	Ignition switch ON and DAC indicator light OFF → ON	10 – 14 V → Below 1 V
C9–15 ⇔ Body ground	G–W ⇔ Body ground	Ignition switch ON and CTR DIFF LOCK or 4WD indicator light OFF → ON	10 – 14 V → Below 1 V
C9–16 ⇔ Body ground	Y–R ⇔ Body ground	Ignition switch ON and VSC TRC indicator light OFF → ON	10 – 14 V → Below 1 V
C9–17 ⇔ Body ground	BR–W ⇔ Body ground	Ignition switch ON and RR DIFF LOCK indicator light OFF → ON	10 – 14 V → Below 1 V
C9–18 ⇔ Body ground (w/ VSC)	L–O ⇔ Body ground	Ignition switch ON and VSC OFF indicator light OFF → ON	10 – 14 V → Below 1 V
C9–20 ⇔ Body ground (w/ VSC)	R ⇔ Body ground	Ignition switch ON and Slip indicator light OFF → ON	10 – 14 V → Below 1 V



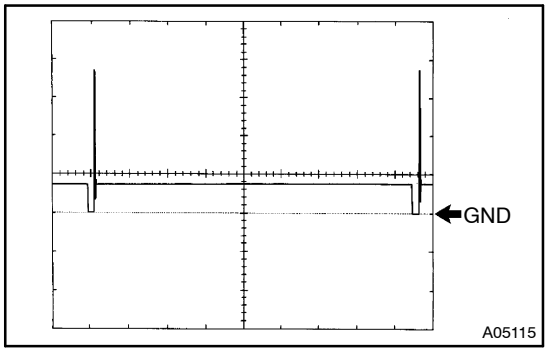
*1: Reference: Using oscilloscope:

Item	Contents
Tool setting	5 V/ DIV, 200 ms/ DV
Vehicle condition	Driving at approx. 20Km/h



*2: Reference: Using oscilloscope:

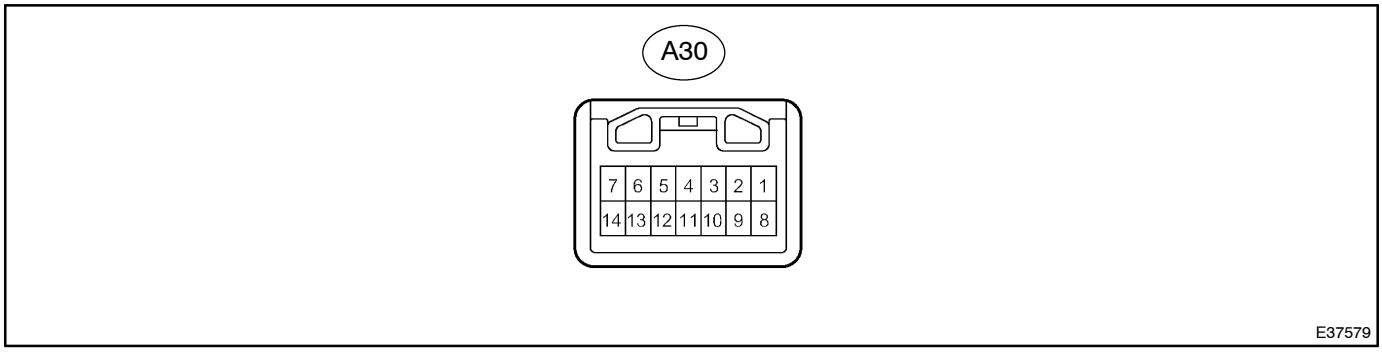
Item	Contents
Tool setting	10 V/ DIV, 20 ms/ DV
Vehicle condition	Engine idle speed



*3: Reference: Using oscilloscope:

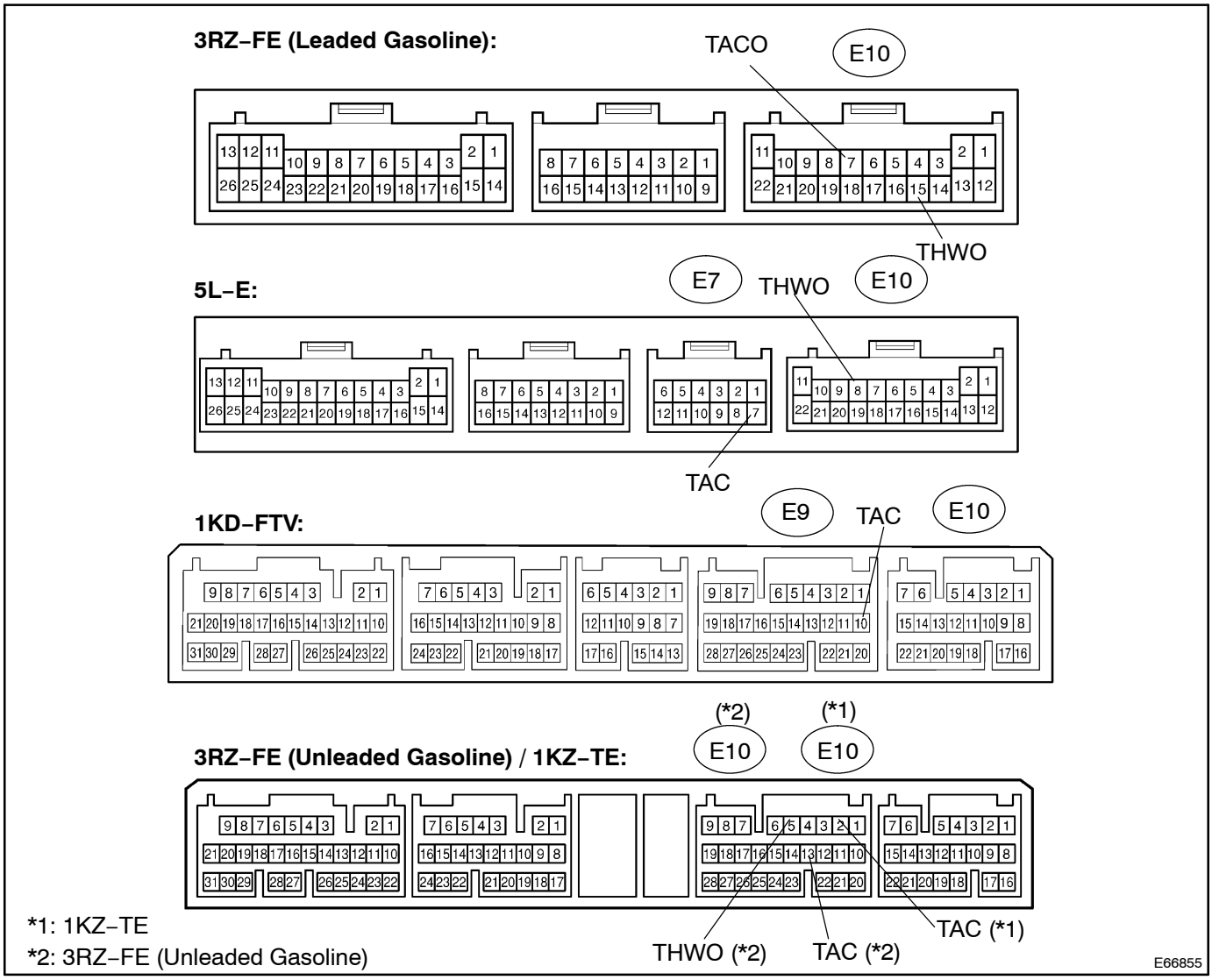
Item	Contents
Tool setting	10 V/ DIV, 20 ms/ DV
Vehicle condition	Engine idle speed

ACCESSORY METER



Terminal No.	Wiring color	Condition	Specified condition
A30–1 ⇔ Body ground	W–B ⇔ Body ground	Any Contents	Continuity
A30–2 ⇔ Body ground	Y–G ⇔ Body ground	Any Contents	Continuity
A30–3 ⇔ Body ground	Y–R(*1)/GR(*2) ⇔ Body ground	Ignition switch ON	3.31V (–9C°) 0.8V (43C°)
A30–4 ⇔ Body ground	B ⇔ Body ground	Communication circuit	–
A30–5 ⇔ Body ground	P ⇔ Body ground	Communication circuit	–
A30–6 ⇔ Body ground	⇔ Body ground	Tail switch OFF → ON	Below 1 V → 10 – 14 V
A30–9 ⇔ Body ground	G–O(*1)/GR(*2) ⇔ Body ground	Ignition switch ON	Pules generation
A30–11 ⇔ Body ground	V–R ⇔ Body ground	Ignition switch ON and turn the rear wheel slowly	Pules generation
A30–12 ⇔ Body ground	B–R ⇔ Body ground	Ignition switch OFF → ON	Below 1 V → 10 – 14 V
A30–13 ⇔ Body ground	GR ⇔ Body ground	Ignition switch OFF → ON	Below 1 V → 10 – 14 V
A30–14 ⇔ Body ground	W–E(*1)/R(*2) ⇔ Body ground	Any Contents	10 – 14 V

ENGINE ECU


3RZ–FE (Leaded Gasoline):
TACO
E10
THWO
5L–E:
E7
THWO
E10
TAC
1KD–FTV:
E9
TAC
E10
3RZ–FE (Unleaded Gasoline) / 1KZ–TE:
(*2)
(*1)
E10
E10
THWO (*2)
TAC (*2)
TAC (*1)
*1: 1KZ–TE
*2: 3RZ–FE (Unleaded Gasoline)
E66855