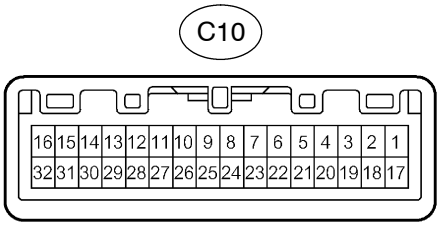
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TERMINALS OF ECU

COMBINATION METER ASSY:

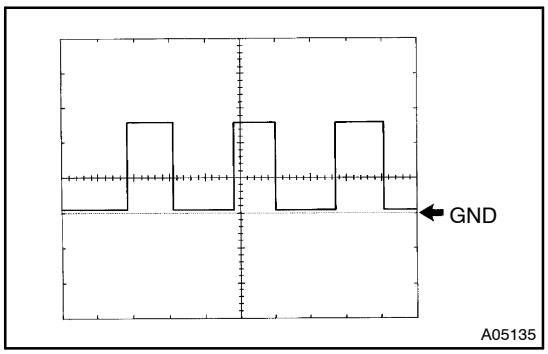


I40067

Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
km/h or mph (C10–1) – Body ground	L – Body ground	km/h or mph signal	Power switch ON (ACC or IG) and km/h or mph switch ON → OFF	Below 1 V → 4 to 5.5 V
TRIP EARTH(C10–2) – Body ground	B – Body ground	GND signal FOR ODO/ TRIP SWITCH	Always	Below 1 Ω
ODO/TRIP/RESET (C10–3) – Body ground	R – Body ground	ODO/TRIP/RESET signal	ODO/TRIP/RESET switch ON → OFF	Below 1 V → 4 to 5.5 V
IG2 (C10–4) – Body ground	O – Body ground	Power switch signal	Power switch OFF → ON	10 to 14 V
D–BELT SW (C10–6) – Body ground	LG – Body ground	Driver seat belt condition	D–BELT indicator light ON → OFF	Below 1 V → 10 to 14 V
P–BELT SW (C10–7) – Body ground	R – Body ground	Passenger seat belt condition	P–BELT indicator light ON → OFF	Below 1 V → 10 to 14 V
SECURITY (C10–8) – Body ground	R – Body ground	SECURITY signal	Key is inserted → Not inserted	Below 1 V ⇔ 10 to 14 V → Below 1 V
SPEED IN (C10–9) – Body ground	V – Body ground	Speed signal (Input)	Power switch ON (ACC or IG) and turn the wheel slowly	Pulse generation (See waveform 1)
AUTO LVL (C10–10) – Body ground	L – Body ground	Headlight automatic leveling signal	Malfunction in headlight leveling System is normally → Malfunction	Below 1 V → 10 to 14 V
AIRBAG (C10–11) – Body ground	B – Body ground	AIRBAG signal	AIRBAG indicator light ON → OFF	Below 1 V → 8 to 14 V
4P OUT (C10–13) – Body ground	V – Body ground	Tachometer signal (Output)	Power switch ON (ACC or IG) and turn the wheel slowly	Pulse generation (See waveform 2)
SIGNAL EARTH (C10–14) – Body ground	BR – Body ground	GND signal	Always	Below 1 Ω
FUEL IN (C10–15) – Body ground	B – Body ground	Fuel signal	Power switch ON (ACC or IG) and fuel level is FULL → EMPTY	4.0 Ω → 110 Ω
TURN R (C10–18) – Body ground	G – Body ground	Turn signal right	Turn signal RH indicator light OFF → ON	Below 1 V → 10 to 14 V
TURN L (C10–19) – Body ground	Y – Body ground	Turn signal left	Turn signal LH indicator light OFF → ON	Below 1 V → 10 to 14 V
+B (C10–21) – Body ground	Y – Body ground	Power switch signal	Always	10 to 14 V
IG2 (C10–22) – Body ground	V – Body ground	Power switch signal	Power switch OFF → ON	Below 1 V → 10 to 14 V
BACK–UP LP (C10–23) – Body ground	P – Body ground	BACK–UP light signal	Power switch ON (ACC or IG) and Shift is except R position → Shift is R position	Below 1 V → 10 to 14 V
MPX+ (C10–24) – Body ground	B	Communication signal	Communication circuit	–
MPX– (C10–25) – Body ground	GR	Communication signal	Communication circuit	–

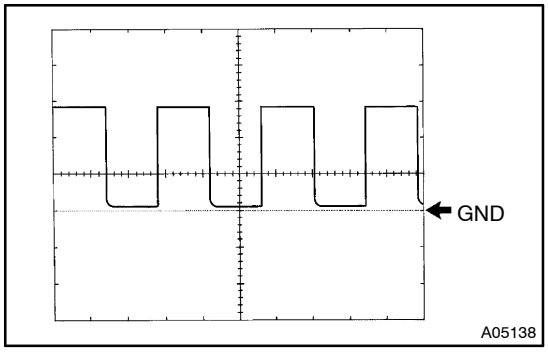
CHECK E/G (C10–26) – Body ground	G – Body ground	CHECK ENGINE signal	Power switch ON (ACC or IG) and CHECK ENGINE warning light ON → OFF	Below 1 V → 10 to 14 V
P–BELT LP (C10–30) – Body ground	Y – Body ground	Passenger seat belt signal	Power switch ON (ACC or IG) and sit on the passenger seat, seat belt unfastened → fastened	Below 1 V → 10 to 14 V
FUEL EARTH (C10–31) – Body ground	BR – Body ground	GND for fuel sender gauge	Always	Below 1 Ω
*1 Rr FOG (C10–32) – Body ground	BR – Body ground	FOG light signal	Power switch ON (ACC or IG) and Rr fog light OFF → Rr fog light ON	Below 1 V → 10 to 14 V

*1: Europe models



Waveform 1 (Reference):

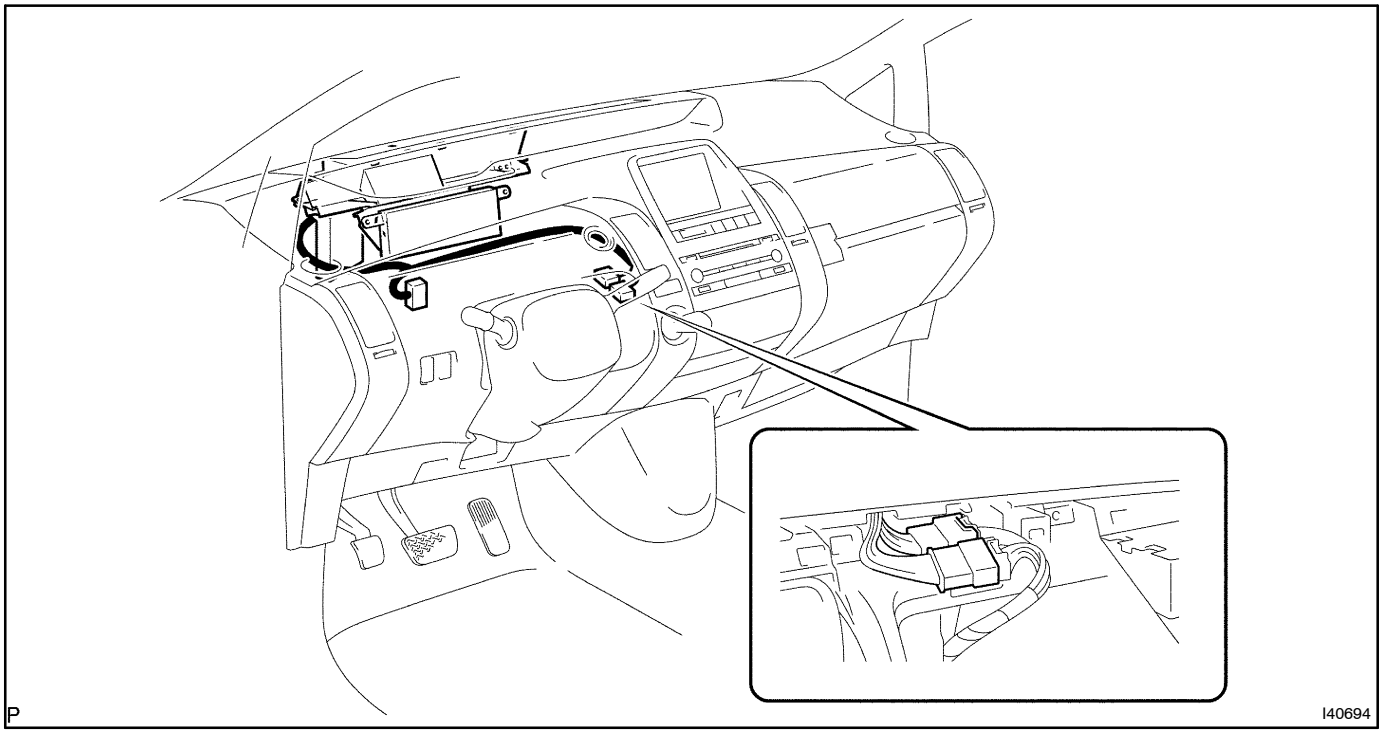
Item	Contents
Tool setting	5 V/DIV, 20 ms/DIV
Vehicle condition	Driving at approx. 20 Km/h (12 mph)

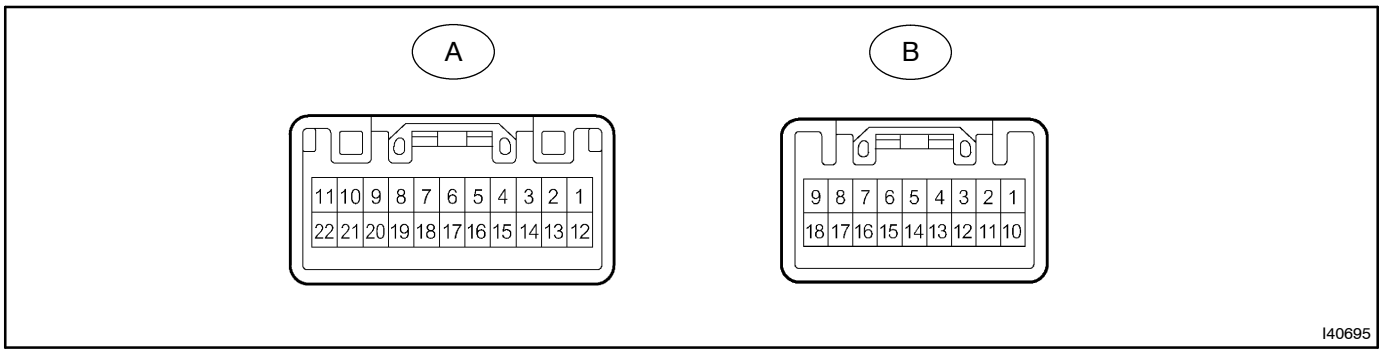


Waveform 2 (Reference):

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

SUB WIRE HARNESS CONNECTOR:

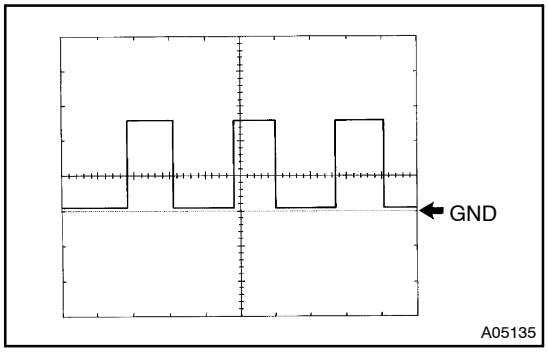




Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
SECURITY (A–1) – Body ground	R – Body ground	SECURITY signal	Key is inserted → Not inserted	Below 1 V ⇔ 10 to 14 V → Below 1 V
MPX+ (A–2) – Body ground	B	Communication signal	Communication circuit	–
D–BELT SW (A–3) – Body ground	LG – Body ground	Driver seat belt condition	D–BELT indicator light ON → OFF	Below 1 V → 10 to 14 V
SIGNAL EARTH (A–4) – Body ground	BR – Body ground	GND signal	Always	Below 1 Ω
TRIP EARTH(A–5) – Body ground	B – Body ground	GND signal FOR ODO/ TRIP SWITCH	Always	Below 1 Ω
km/h or mph (A–6) – Body ground	L – Body ground	km/h or mph signal	Power switch ON (ACC or IG) and km/h or mph switch ON → OFF	Below 1 V → 4 to 5.5 V
IG2 (A–7) – Body ground	O – Body ground	Power switch signal	Power switch OFF → ON	10 to 14 V
ODO/TRIP/RESET (A–8) – Body ground	R – Body ground	ODO/TRIP/RESET signal	ODO/TRIP/RESET switch ON → OFF	Below 1 V → 4 to 5.5 V
SPEED IN (A–9) – Body ground	V – Body ground	Speed signal (Input)	Power switch ON (ACC or IG) and turn the wheel slowly	Pulse generation (See waveform 1)

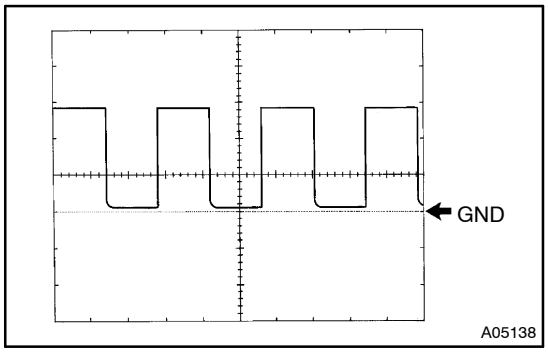
CHECK E/G (A–10) – Body ground	G – Body ground	CHECK ENGINE signal	Power switch ON (ACC or IG) and CHECK ENGINE warning light ON → OFF	Below 1 V → 10 to 14 V
TURN L (A–11) – Body ground	Y – Body ground	Turn signal left	Turn signal LH indicator light OFF → ON	Below 1 V → 10 to 14 V
TURN R (A–12) – Body ground	G – Body ground	Turn signal right	Turn signal RH indicator light OFF → ON	Below 1 V → 10 to 14 V
*1 IG2 (A–13) – Body ground	V – Body ground	Power switch signal	Power switch OFF → ON	Below 1 V → 10 to 14 V
*2 BACK–UP LP (A–13) – Body ground	P – Body ground	BACK–UP light signal	Power switch ON (ACC or IG) and Shift is except R position → Shift is R position	Below 1 V → 10 to 14 V
AIRBAG (A–14) – Body ground	B – Body ground	AIRBAG signal	AIRBAG indicator light ON → OFF	Below 1 V → 8 to 14 V
*1 MPX– (B–1) – Body ground	GR	Communication signal	Communication circuit	–
*1 P–BELT SW (B–2) – Body ground	R – Body ground	Passenger seat belt condition	P–BELT indicator light ON → OFF	Below 1 V → 10 to 14 V
*2 MPX– (B–3) – Body ground	GR	Communication signal	Communication circuit	–
*1 AUTO LVL (B–3) – Body ground	L – Body ground	Headlight automatic leveling signal	Malfunction in headlight leveling System is normally → Malfunction	Below 1 V → 10 to 14 V
*2 P–BELT SW (B–4) – Body ground	R – Body ground	Passenger seat belt condition	P–BELT indicator light ON → OFF	Below 1 V → 10 to 14 V
*2 AUTO LVL (B–5) – Body ground	L – Body ground	Headlight automatic leveling signal	Malfunction in headlight leveling System is normally → Malfunction	Below 1 V → 10 to 14 V
*1 +B (B–7) – Body ground	Y – Body ground	Power switch signal	Always	10 to 14 V
*1 FUEL IN (B–8) – Body ground	B – Body ground	Fuel signal	Power switch ON (ACC or IG) and fuel level is FULL → EMPTY	4.0 Ω → 110 Ω
*2 +B (B–9) – Body ground	Y – Body ground	Power switch signal	Always	10 to 14 V
*1 FUEL EARTH (B–9) – Body ground	BR – Body ground	GND for fuel sender gauge	Always	Below 1 Ω
*1 4P OUT (B–10) – Body ground	V – Body ground	Tachometer signal (Output)	Power switch ON (ACC or IG) and turn the wheel slowly	Pulse generation (See waveform 2)
*1 BACK–UP LP (B–11) – Body ground	P – Body ground	BACK–UP light signal	Power switch ON (ACC or IG) and Shift is except R position → Shift is R position	Below 1 V → 10 to 14 V
*3 Rr FOG (B–12) – Body ground	BR – Body ground	FOG light signal	Power switch ON (ACC or IG) and Rr fog light OFF → Rr fog light ON	Below 1 V → 10 to 14 V
*2 FUEL IN (B–12) – Body ground	B – Body ground	Fuel signal	Power switch ON (ACC or IG) and fuel level is FULL → EMPTY	4.0 Ω → 110 Ω
*2 FUEL EARTH (B–13) – Body ground	BR – Body ground	GND for fuel sender gauge	Always	Below 1 Ω
*2 4P OUT (B–14) – Body ground	V – Body ground	Tachometer signal (Output)	Power switch ON (ACC or IG) and turn the wheel slowly	Pulse generation (See waveform 2)

*1: RHD models
*2: LHD models
*3: Europe models



Waveform 1 (Reference):

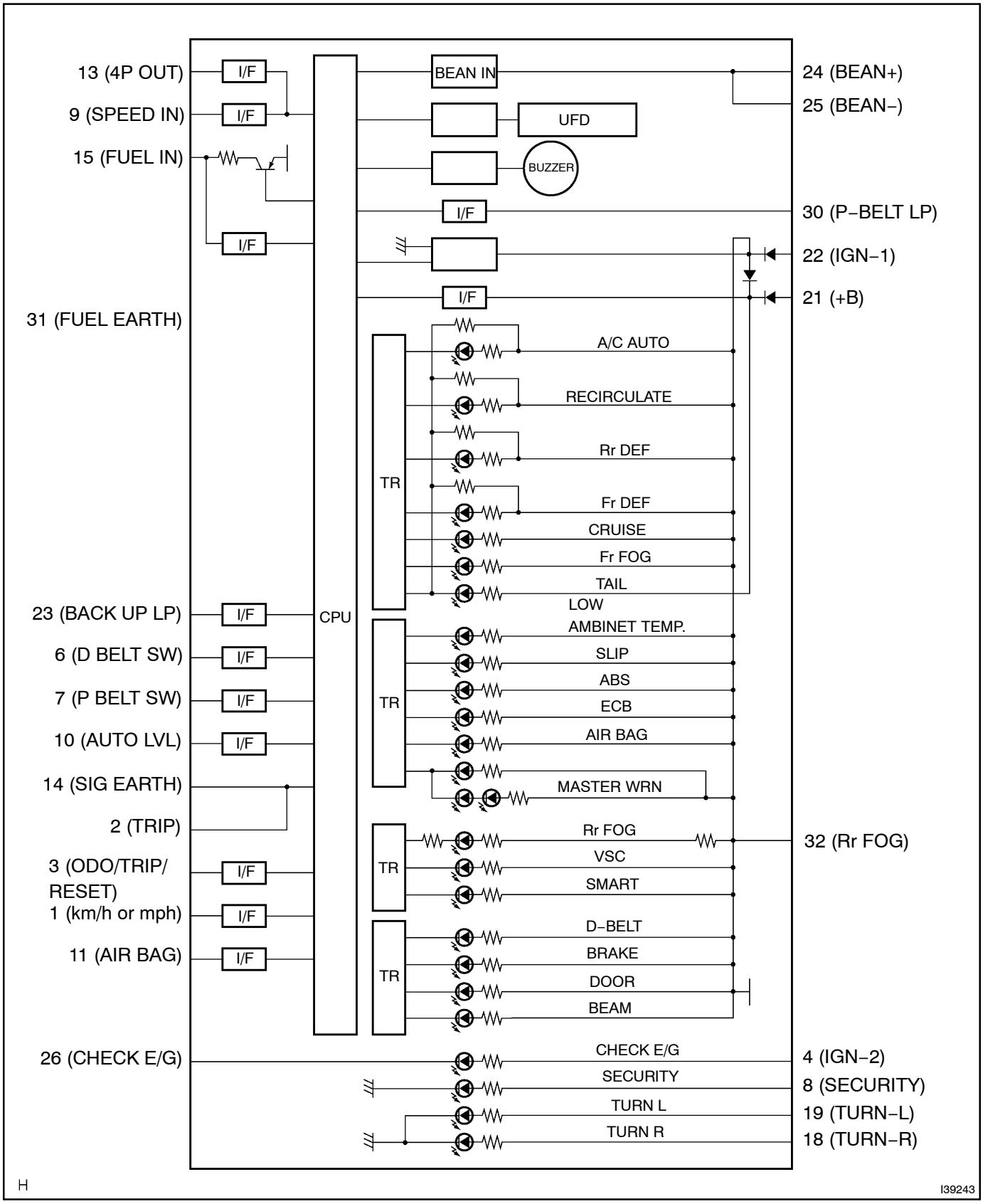
Item	Contents
Tool setting	5 V/DIV, 20 ms/DIV
Vehicle condition	Driving at approx. 20 Km/h (12 mph)



Waveform 2 (Reference):

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

COMBINATION METER INNER CIRCUIT



Terminal No.		Wire harness side
C10	1	ODO/TRIP Switch
	2	ODO/TRIP Switch
	3	ODO/TRIP Switch
	4	IGN Fuse
	5	–
	6	Front Seat Inner Belt Assy LH
	7	Front Seat Inner Belt Assy RH
	8	Security ECU
	9	Skid Control ECU
	10	Headlight Beam Level Control ECU
	11	Airbag Control Assy Center
	12	–
	13	4P OUT
	14	GND
	15	Fuel Sender Gauge Assy
	16	–
	17	–
	18	Flasher Relay
	19	Flasher Relay
	20	–
	21	DOME Fuse
	22	GAUGE Fuse
	23	Back–up Light Relay
	24	Smart Key ECU
	25	Ignition Control ECU
	26	ECM
	27	–
	28	–
	29	–
	30	Passenger Seat Belt Warning Light
	31	Fuel Sender Gauge Assy
	32	*1 Rr Fog Relay

*1: Europe models