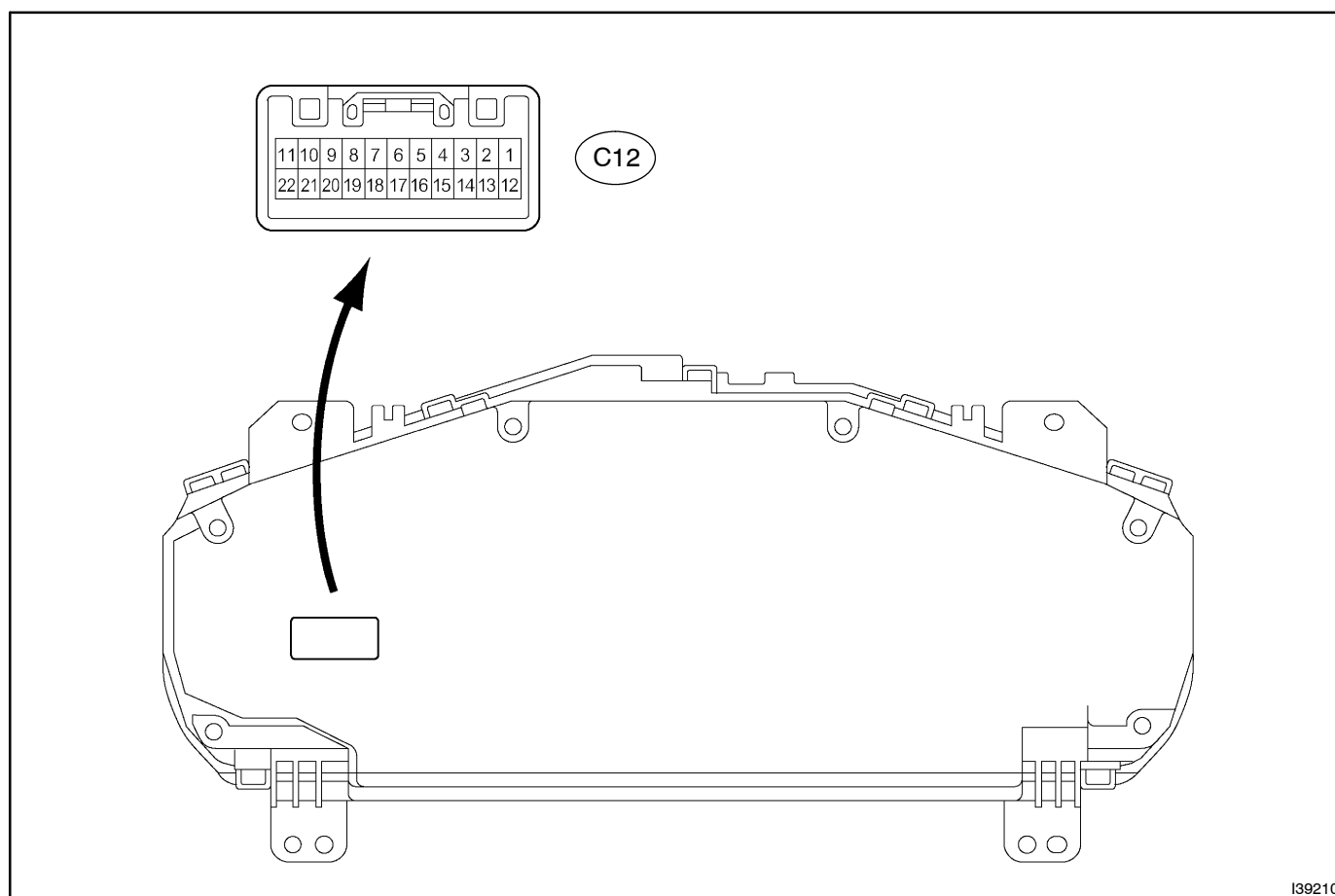


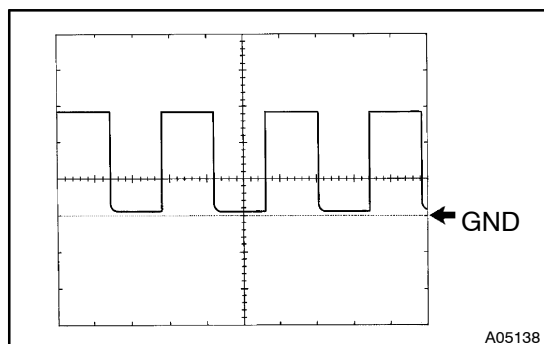
TERMINALS OF ECU COMBINATION METER ASSY



I39210

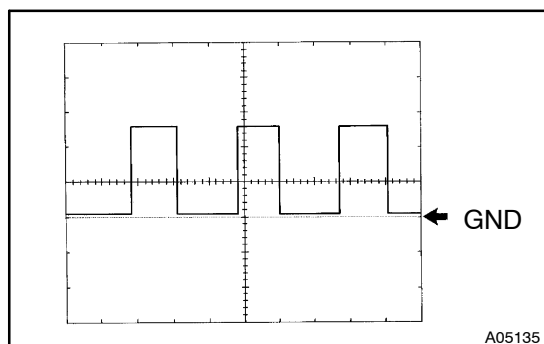
Symbols (Terminals No.)	Wiring Color	Terminal Description	Condition	Specified Condition
IG + (C12-1) – Body ground	R-L (W) – Body ground	Ignition switch signal (ON)	Ignition switch OFF → ON	Below 1 V → 10 to 14 V
MPX+ (C12-2) – Body ground	Y (W) – Body ground	Multiplex communication signal	–	–
MPX- (C12-3) – Body ground	Y (W) – Body ground	Multiplex communication signal	–	–
TACHO (C12-4) – Body ground	B-O (W) – Body ground	Tachometer signal	Engine running	Pulse generation (See waveform 1)
CHECK E/G (C12-5) – Body ground	LG-R – Body ground	CHECK ENGINE signal	CHECK ENGINE warning light ON → OFF	Below 1 V → 10 to 14 V
TEMS (C12-6) – Body ground	BR-Y (W) – Body ground	TEMS SPORT signal	TEMS SPORT indicator light ON → OFF	Below 1 V → 10 to 14 V
ODO/TRIP (C12-7) – Body ground	BR-Y (W) – Body ground	ODO/TRIP signal	Ignition switch ON, ODO/TRIP switch ON → OFF	Below 1 V → 4.5 to 5.5 V
P-BELT (C12-9) – Body ground	BR-Y (W) – Body ground	Seat belt condition signal (Passenger side)	P-BELT indicator light ON → OFF	Below 1 V → 10 to 14 V
SWITCH EARTH (C12-10) – Body ground	P (W) – Body ground	Ground (Switch)	Always	Below 1 Ω
SIGNAL EARTH (C12-11) – Body ground	BR (W) – Body ground	Ground	Always	Below 1 Ω

MPX +B (C12-12) – Body ground	LG – Body ground	Battery	Always	10 to 14 V
DOME +B (C12-13) – Body ground	LG – Body ground	Battery	Always	10 to 14 V
TURN L (C12-14) – Body ground	G-B (W) – Body ground	Turn signal L	Ignition switch ON, turn signal LH indicator OFF → ON	Below 1 V → 10 to 14 V
TURN R (C12-15) – Body ground	G-Y (SB) – Body ground	Turn signal R	Ignition switch ON, turn signal RH indicator OFF → ON	Below 1 V → 10 to 14 V
ILL- (C12-16) – Body ground	G-Y (SB) – Body ground	Illumination signal	Ignition switch ON	Pulse generation
HIGHT HI (C12-17) – Body ground	G-B (W) – Body ground	Turn signal L	Ignition switch ON, HIGHT HI indicator ON → OFF	Below 1 V → 10 to 14 V
SI (C12-18) – Body ground	L-O (W) – Body ground	Speed signal (Input)	Ignition switch ON and turn the wheel slowly	Pulse generation (See waveform 2)
4P OUT (C12-19) – Body ground	V-W (W) – Body ground	Speed signal (Output)	Ignition switch ON and turn the wheel slowly	Pulse generation
ALARM (C12-21) – Body ground	G-Y (SB) – Body ground	ALARM signal	Ignition switch ON, speed alarm OFF → ON	Below 1 V → 10 to 14 V
BODY GROUND (C12-22) – Body ground	BR (W) – Body ground	Ground	Always	Below 1 Ω



Waveform 1 (Reference):

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



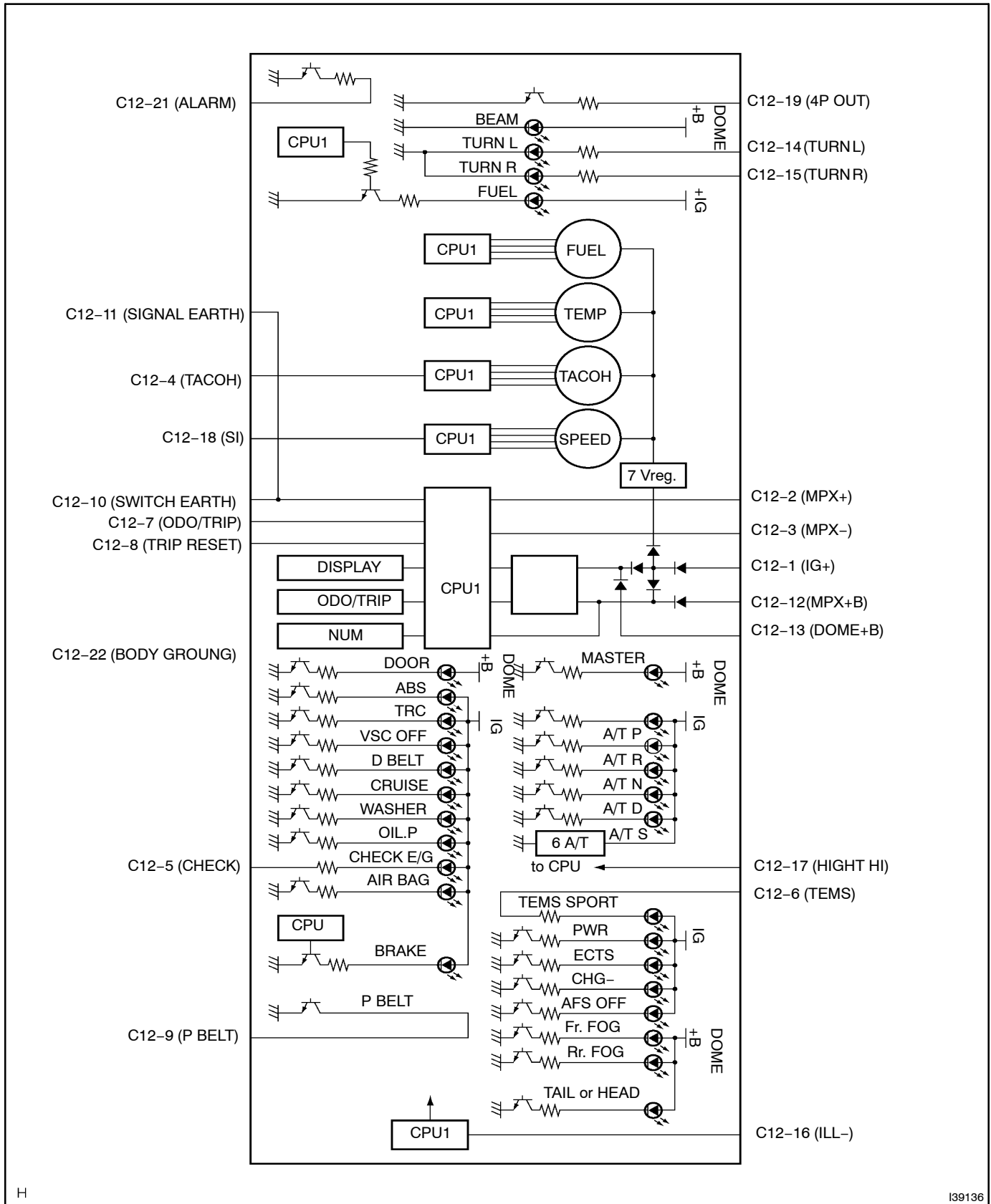
Waveform 2 (Reference):

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

HINT:

As vehicle speed increases, the cycle of the signal waveform narrows.

COMBINATION METER INNER CIRCUIT



Connectors:

Terminal No.		Wire harness side
C12	1	GAUGE Fuse
	2	Multiplex Communication Line
	3	Multiplex Communication Line
	4	ECM
	5	ECM
	6	Air Suspension ECU
	7	Light Control Rheostat
	8	Light Control Rheostat
	9	EMV
	10	Light Control Rheostat
	11	GND
	12	MPX-B2 Fuse
	13	DOME Fuse
	14	Driver Side J/B
	15	Driver Side J/B
	16	Driver Side J/B
	17	Air Suspension ECU
	18	Skid Control ECU
	19	4P-OUT (Other Parts)
	21	Speed Warning Buzzer
	22	GND