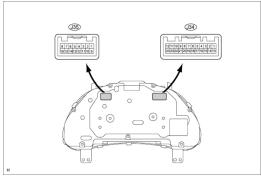
METER / GAUGE SYSTEM > TERMINALS OF ECU

- · Combination Meter Assembly
- COMBINATION METER INNER CIRCUIT

METER / GAUGE SYSTEM > TERMINALS OF ECU

for Preparation Click here

*: for 2AD-FHV



Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
E2 (J34-1) - Body Ground	W-B - Body ground	Ground	Always	Below 1 V
FE (J34-2) - Body ground	BR - Body ground	Ground (Fuel ground)	Always	Below 1 V
FSLH (J34-3) (*) - Body ground	BR - Body ground	Ground (Fuel ground)	Always	Below 1 V
+S (J34-5) - Body ground	P - Body ground	Speed signal (Output)	Turn the wheel slowly	Pulse generation (See waveform 1)
MPX+ (J34-6) - Body ground	BR - Body ground	Multiplex communication signal	-	-
ECDLI (124.7) Bed a second	CD. Bady around	Fire signed	Engine switch on (IG), fuel level is FULL	Below 1 V
FSRH (J34-7) - Body ground	SB - Body ground	Fuel signal	Engine switch on (IG), fuel level is EMPTY	4 to 7 V
TC (J34-8) - Body ground	D - Body ground	l Light control rheostat signal	Engine switch on (IG), the light control rheostat knob is in the MAX. position (turned fully clockwise)	4 to 6 V
. , , , , ,	, ,		Engine switch on (IG), the light control rheostat knob is in the MIN. position (turned fully counterclockwise)	Below 1 V
ILL+ (J34-9) - Body ground	V - Body ground	Light control rheostat signal	Engine switch on (IG), combination switch is not OFF	4 to 6 V
B (J34-11) - Body ground	G - Body ground	Turn indicator light signal	Engine switch on (IG), turn signal LH indicator light OFF	Below 1 V
			Engine switch on (IG), turn signal LH indicator light ON	10 to 14 V
EFI (J34-12) - Body ground	O - Body ground	Ignition switch signal	Engine switch off Engine switch on (IG)	Below 1 V 10 to 14 V
	W-B - Body			
ES (J34-13) - Body ground	ground	Ground (Signal ground)	Always	Below 1 V
ET (J34-14) - Body ground	Y - Body ground	Ground (Rheostat ground)	Always	Below 1 V
S (J34-16) - Body ground	W - Body ground	Tachometer signal	Engine switch on (IG), engine idle speed	Pulse generation (See waveform 2)
SI (J34-17) - Body ground		Speed signal (Input)	Engine switch on (IG), turn the wheel slowly	Pulse generation (See waveform 1)
MPX- (J34-18) - Body ground	BR - Body ground	Multiplex communication signal	-	-
FR (J34-19) - Body ground	SB - Body ground	Fuel signal	Engine switch on (IG), fuel level is FULL	Below 1 V
	, 3		Engine switch on (IG), fuel level is EMPTY	4 to 7 V
MSSL (J34-20) - Body ground	V - Body ground	Steering pad switch signal	Engine switch on (IG), DISP switch off	4 to 6 V
ground	B - Body ground	Light control rheostat signal	Engine switch on (IG), DISP switch ON Engine switch on (IG), the light control rheostat knob is in the MIN. position (turned fully counterclockwise).	Below 1 V Below 1 V
TR (J34-21) - Body ground			Engine switch on (IG), the light control rheostat knob is in the MAX. position (turned fully clockwise).	4 to 6 V
B (J34-23) - Body ground	L - Body ground	Battery	Always	10 to 14 V
B (J34-24) - Body ground	LG - Body ground		Always	10 to 14 V
, , , ,	P - Body ground	Passanger seat helt warning light	Sit in the passenger seat, engine switch on (IG), passenger seat belt fastened	10 to 14 V
PBLT (J35-3) - Body ground			Sit in the passenger seat, engine switch on (IG), p- belt warning light blinks	Pulse generation (See waveform 3)
D(CD (125 4) D. d	I Dode sound	December 1	Engine switch on (IG), passenger seat belt unfastened	10 to 14 V
P/SB (J35-4) - Body ground	L - Body ground	Passenger seat inner belt signal	Engine switch on (IG), passenger seat belt fastened	Below 1 V
RSEL (J35-5) - Body ground	GR - Body	Satellite switch RH signal	Engine switch on (IG), satellite switch RH off	4 to 6 V
rioce (305 5) Body ground	ground	Datemet Smeat for Signal	Engine switch on (IG), satellite switch RH ON	Below 1 V
LSEL (J35-6) - Body ground	O - Body ground	Satellite switch LH signal	Engine switch on (IG), satellite switch LH off	4 to 6 V
. , , , ,	, 8		Engine switch on (IG), satellite switch LH ON	Below 1 V
SET (J35-7) - Body ground	V - Body ground	Satellite switch ON/OFF signal	Engine switch on (IG), satellite switch ON/OFF off Engine switch on (IG), satellite switch ON/OFF ON	4 to 6 V Below 1 V
ILL- (J35-9) - Body ground	W - Body ground	Illumination signal	Engine switch on (IG)	10 to 14 V
			Engine switch on (IG), turn signal RH indicator light OFF	Below 1 V
B (J35-10) - Body ground	R - Body ground	Turn indicator light signal	Engine switch on (IG), turn signal RH indicator light ON	10 to 14 V
EFI (J35-11) - Body ground	LG - Body ground	Check engine indicator light signal	Engine switch on (IG), CHECK ENGINE warning light ON Engine switch on (IG), CHECK ENGINE warning light OFF	Below 1 V 10 to 14 V
J35-13 (OIL) (*) - Body	BR - Body ground	d Engine oil level signal	Engine switch on (IG), engine oil level is full	Below 1 V
ground	, g. dana		Engine switch on (IG), engine oil level is low	10 to 14 V
J35-14 (S) (*) - Body ground	nd O - Body ground	ody ground Engine oil pressure signal	Engine switch on (IG), engine oil pressure is high	Below 1 V
			Engine switch on (IG), engine oil pressure is low	10 to 14 V
SW (J35-15) - Body ground	LG - Body ground	Brake fluid level warning light signal	Engine switch on (IG), BRAKE warning light OFF Engine switch on (IG), BRAKE warning light ON	10 to 14 V Below 1.5 V
		Fuel sedimenter warning switch	Engine switch on (IG), SEDIMENT warning light ON	10 to 14 V
J35-16 (*) - Body ground	BR - Body ground	signal	Engine switch on (IG), SEDIMENT warning light OFF	Below 1 V

a. Waveform 1 (Reference) : Using an oscilloscope:

OK:				
	Item	Condition		
	Tool setting	5 V/DIV., 20 ms./DIV.		
	Vehicle condition	Driving at approx. 20 km/h (12 mph)		

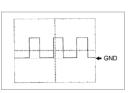
As vehicle speed increases, the cycle of the signal waveform narrows.

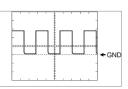
b. Waveform 2 (Reference) : Using an oscilloscope:

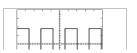
OK:				
Item	Condition			
Tool setting	5 V/DIV., 10 ms./DIV.			
Vehicle condition	Engine idle speed			

c. Waveform 3 (Reference) : Using an oscilloscope:

DK:				
Item	Condition			
Tool setting	5 V/DIV., 200 ms./DIV.			
Vehicle condition	Engine switch on (IG), p-belt warning light blinks			

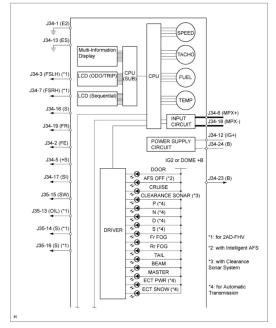


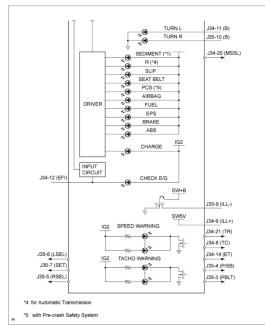






*1: for 2AD-FHV *2: without Navigation System *3: with Navigation System





Terminals No.		Wire harness side
	1	Ground
	2	Ground (FE)
	3	Ground (FSLH) (*1)
	4	-
	5	Each part that uses speed signal
	6	Multiplex Communication Line (MPX+)
	7	Fuel Sender Gauge Assembly (FSRH) (*1)
	8	Light Control Rheostat (TC)
	9	Light Control Rheostat (ILL+)
	10	-
	11	Turn Signal Flasher (B)
	12	MET Fuse
J34	13	Ground (Signal Ground)
	14	Light Control Rheostat (ET)
	15	-
	16	ECM (S)
	17	ABS & Traction Actuator Assembly
	18	Multiplex Communication Line (MPX-)
	19	Fuel Sender Gauge Assembly (FR)
	20	Steering Pad Switch (DISP)
	21	Light Control Rheostat (TR)
	22	-
	23	DOME Fuse
	24	MPX-B Fuse
	1	-
	2	-
	3	Integration Control & Panel Assembly (*2)/Multi-display (*3)
	4	Passenger Side Front Seat Inner Belt Assembly
	5	Satellite Switch (RSEL)
	6	Satellite Switch (LSEL)
	7	Satellite Switch (SET)
	8	-

J35		
155	9	Illumination Parts
	10	Turn Signal Flasher (B)
	11	-
	12	ECM (EFI)
		Engine Oil Level Sensor (*1)
	14	Engine Oil Pressure Switch (*1)
	15	Brake Fluid Level Warning Switch
	16	Fuel Sedimenter Warning Switch (*1)

			,	
TO (124.0) . Dada arrand	D. Dadu annual		Engine switch on (IG), the light control rheostat knob is in the MAX. position (turned fully clockwise)	4 to 6 V
TC (J34-8) - Body ground	P - Body ground	Light control rheostat signal	Engine switch on (IG), the light control reports knob is in the MIN, position (turned fully	