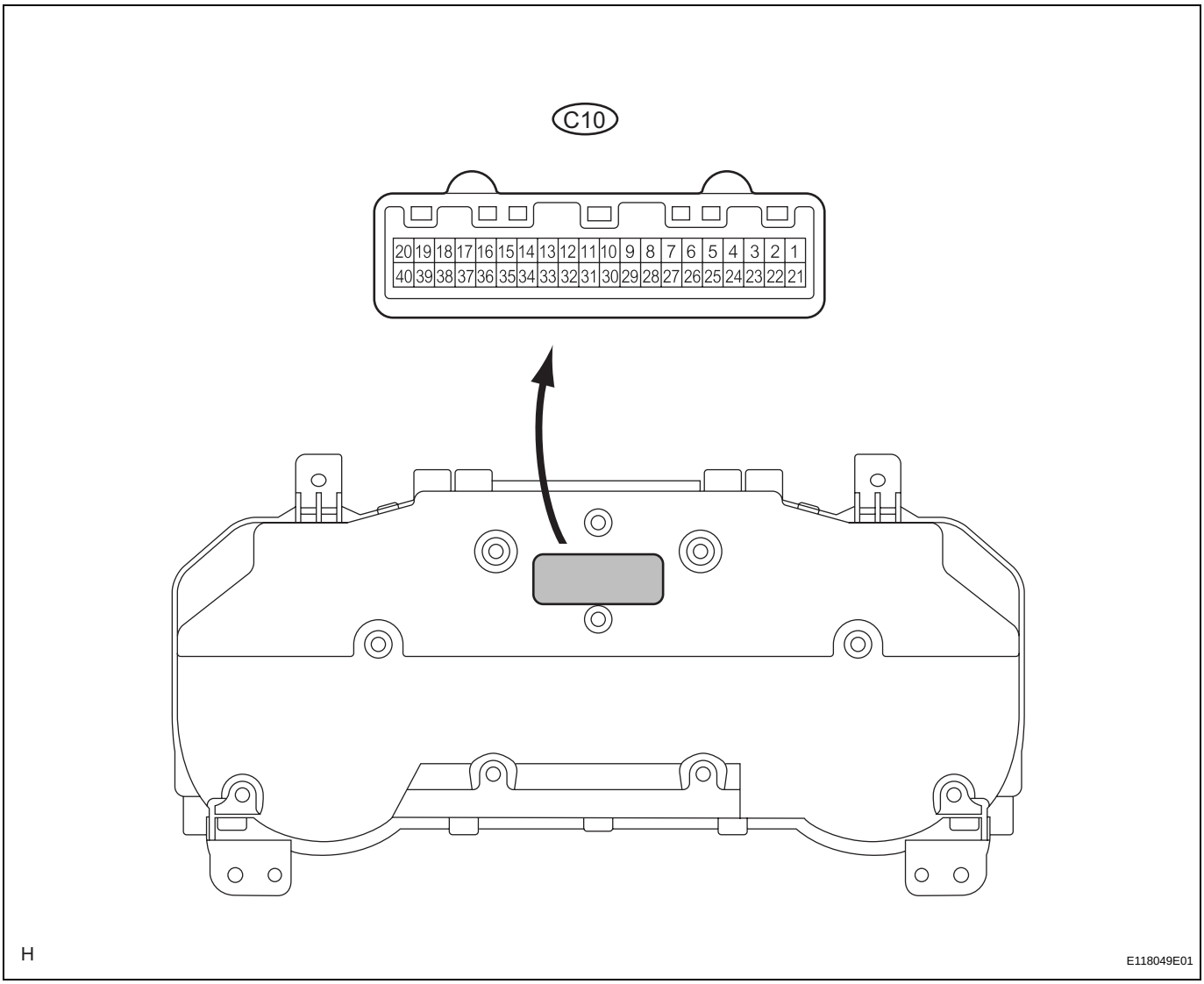
TERMINALS OF ECU

1. COMBINATION METER ASSEMBLY



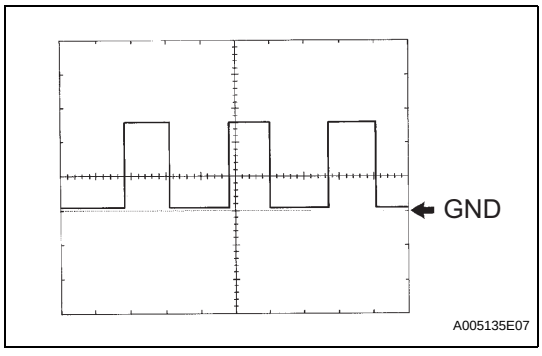
Terminals No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
C10-3 (FLDS) (*1) - Body ground	R-W - Body ground	3RD SEAT indicator light signal (Folding seat indicator light signal)	Turn the ignition switch to the ON position, 3RD SEAT indicator light ON	Below 3 V
			Turn the ignition switch to the ON position, 3RD SEAT indicator light OFF	10 to 14 V
C10-4 (LP) (*2) - Body ground	B - Body ground	SECURITY indicator light signal	SECURITY indicator light ON	8 to 14 V
			SECURITY indicator light OFF	Below 1 V
C10-5 (WLVL) - Body ground	L-R - Body ground	WASHER indicator light signal	Turn the ignition switch to the ON position, WASHER indicator light OFF	10 to 14 V
			Turn the ignition switch to the ON position, WASHER indicator light ON	Below 1 V

ME

Terminals No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
C10-6 (TIRE) - Body ground	GR-L - Body ground	TIRE PRESSURE warning light signal	Turn the ignition switch to the ON position, TIRE PRESSURE warning light ON	0.9 to 3.2 V
			Turn the ignition switch to the ON position, TIRE PRESSURE warning light OFF	3.2 V or higher
C10-7 (ESC) - Body ground	R-W - Body ground	ABS warning light signal	Turn the ignition switch to the ON position, ABS warning light ON	10 to 14 V
			Turn the ignition switch to the ON position, ABS warning light OFF	Below 1 V
C10-8 (EFI) - Body ground	B-Y - Body ground	Malfunction Indicator Lamp signal (Check engine warning light signal)	Turn the ignition switch to the ON position, MIL ON	Below 1 V
			Turn the ignition switch to the ON position, MIL OFF	10 to 14 V
C10-10 (FUS-) - Body ground	BR-B - Body ground	Ground (Fuel ground)	Always	Below 1 V
C10-12 (+B) - Body ground	W-L - Body ground	Battery	Always	10 to 14 V
C10-13 (LVSR) - Body ground	Y-R - Body ground	Brake fluid level warning switch signal	Turn the ignition switch to the ON position, BRAKE warning light OFF	10 to 14 V
			Turn the ignition switch to the ON position, BRAKE warning light ON	Below 1 V
C10-14 (SW) - Body ground	Y-B - Body ground	BRAKE warning light signal	Turn the ignition switch to the ON position, BRAKE warning light ON	10 to 14 V
			Turn the ignition switch to the ON position, BRAKE warning light OFF	Below 1 V
C10-16 (B) - Body ground	G-Y - Body ground	TURN R indicator light signal	Turn the ignition switch to the ON position, TURN R indicator light OFF	Below 1 V
			Turn the ignition switch to the ON position, TURN R indicator light ON	10 to 14 V
C10-18 (CHG-) - Body ground	W-G - Body ground	CHARGE warning light signal	Turn the ignition switch to the ON position, CHARGE warning light OFF	Below 1 V
			Turn the ignition switch to the ON position, CHARGE warning light ON	10 to 14 V
C10-19 (S) - Body ground	Y-B - Body ground	OIL PRESSURE warning light signal	Turn the ignition switch to the ON position, OIL PRESSURE warning light OFF	Below 1 V
			Turn the ignition switch to the ON position, OIL PRESSURE warning light ON	10 to 14 V
C10-21 (B) - Body ground	G-B - Body ground	TURN L indicator light signal	Turn the ignition switch to the ON position, TURN L indicator light OFF	Below 1 V
			Turn the ignition switch to the ON position, TURN L indicator light ON	10 to 14 V

Terminals No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
C10-22 (ILL-) - Body ground	W-G - Body ground	Illumination signal	Turn the ignition switch to the ON position, light control switch OFF	Below 1 V
			Turn the ignition switch to the ON position, light control switch ON	10 to 14 V
C10-23 (ILL-) - Body ground	W-R - Body ground	Illumination signal	Turn the ignition switch to the ON position, light control switch OFF	Below 1 V
			Turn the ignition switch to the ON position, light control switch ON	10 to 14 V
C10-25 (ILG1) - Body ground	W-B - Body ground	Ground (Illumination ground)	Always	Below 1 V
C10-26 (ILG2) - Body ground	W-B - Body ground	Ground (Illumination ground)	Always	Below 1 V
C10-28 (MPX-) - Body ground	V - Body ground	Multiplex Communication Line	Always	10 to 14 V
C10-29 (MPX+) - Body ground	R-L - Body ground	Multiplex Communication Line	Always	10 to 14 V
C10-30 (ES) - Body ground	BR - Body ground	Ground (Signal ground)	Always	Below 1 V
C10-32 (IG+) - Body ground	B-R - Body ground	Ignition switch signal	Turn the ignition switch off	Below 1 V
			Turn the ignition switch to the ON position	10 to 14 V
C10-33 (E/M) - Body ground	W - Body ground	Accessory meter signal	Communication Line	-
C10-34 (TX) - Body ground	R - Body ground	Accessory meter signal	Communication Line	-
C10-35 (SI) - Body ground	GR - Body ground	Speed signal (Input)	Turn the wheel slowly	Pulse generation (See waveform 1)
C10-36 (+S) - Body ground	V-W - Body ground	Speed signal (Output)	Turn the ignition switch off	Below 1 V
			Turn the ignition switch to the ON position	10 to 14 V
C10-37 (S) - Body ground	B-O - Body ground	Tachometer signal	Engine idle speed	Pulse generation (See waveform 2)
C10-38 (FUS+) - Body ground	Y-G - Body ground	Fuel signal	Turn the ignition switch to the ON position, fuel level is FULL	Below 2 V
			Turn the ignition switch to the ON position, fuel level is EMPTY	5 to 8 V

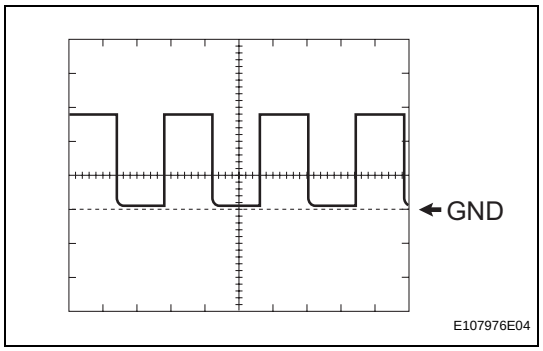
*1: with Power Rear No. 2 Seat with Stowing Function
*2: with Theft Deterrent System



(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)

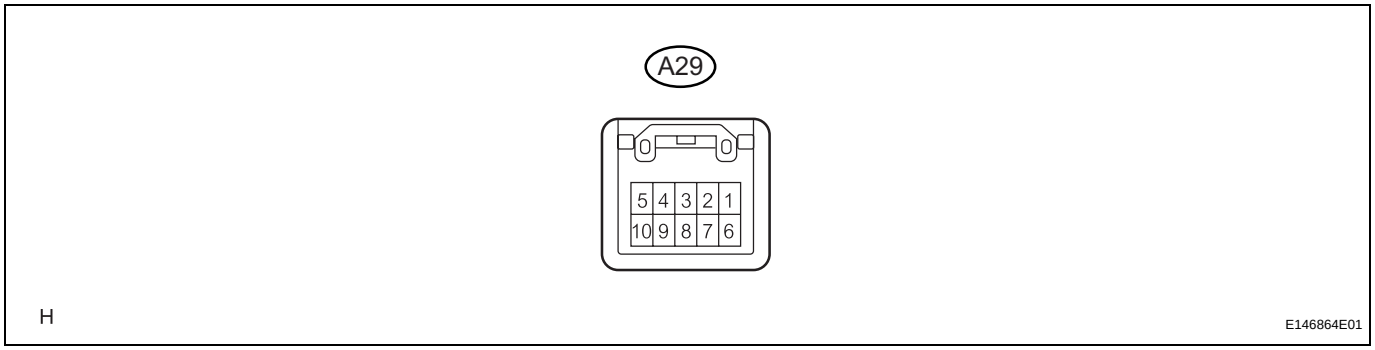
HINT:
As vehicle speed increases, the cycle of the signal waveform narrows.



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

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

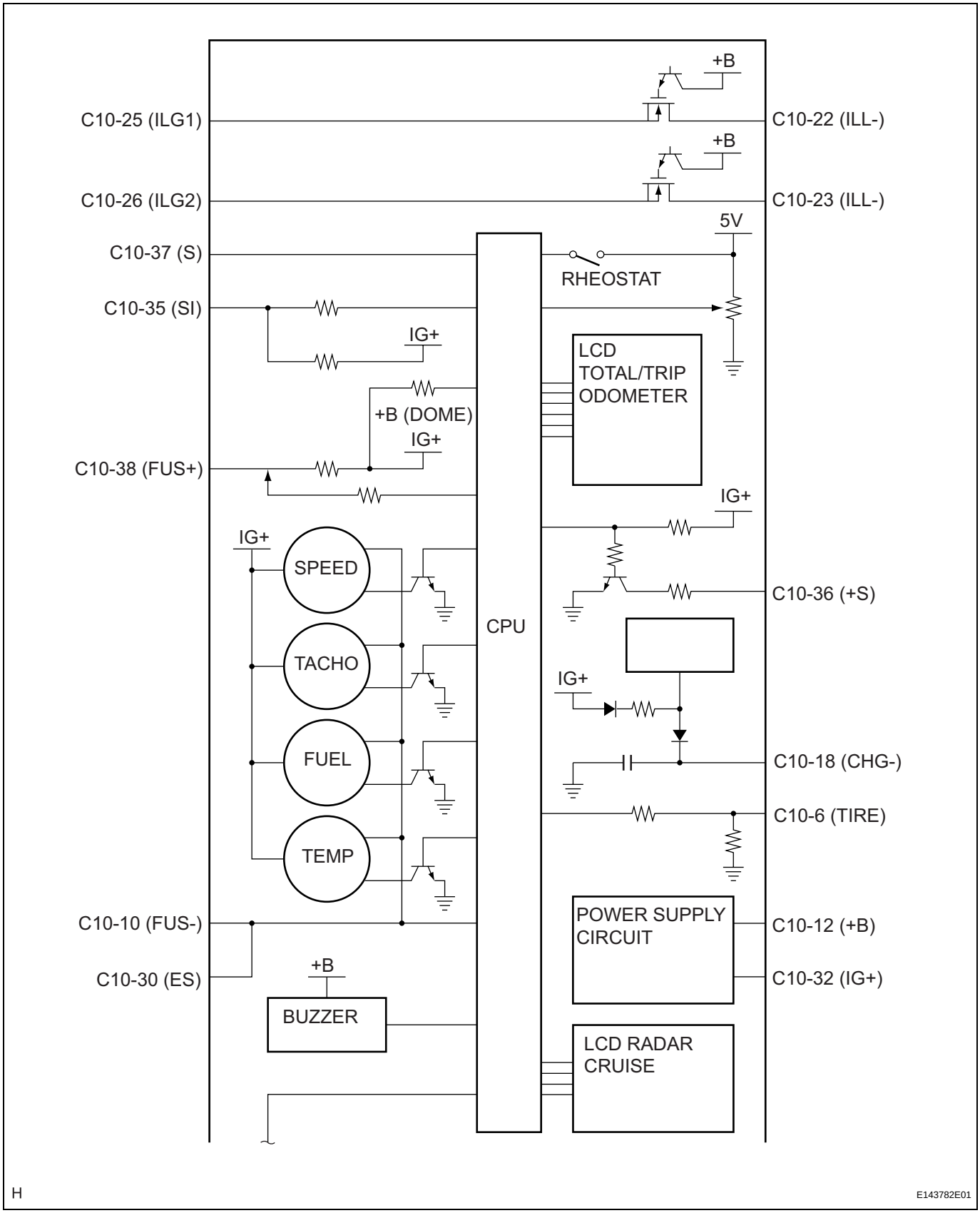
2. ACCESSORY METER ASSEMBLY

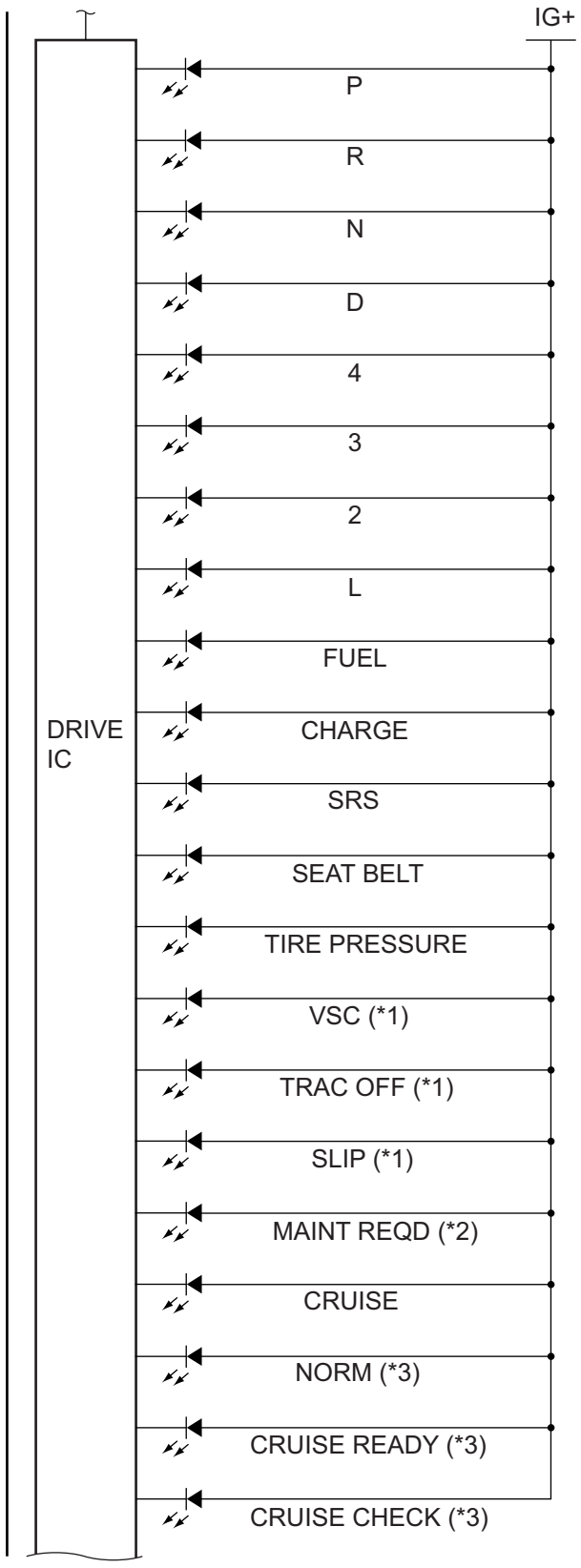


Terminals No. (Symbols)	Wiring Color	Terminal Description	Condition	Specified Condition
A29-1 (BAT) - Body ground	R - Body ground	Battery	Always	10 to 14 V
A29-4 (GND) - Body ground	W-B - Body ground	Ground	Always	Below 1 V
A29-5 (IGN) - Body ground	B-R - Body ground	Ignition switch signal	Turn the ignition switch off	Below 1 V
			Turn the ignition switch to the ON position	10 to 14 V
A29-7 (ILL-) - Body ground	W-R - Body ground	Illumination signal	Turn the ignition switch to the ON position, light control switch OFF	Below 1 V
			Turn the ignition switch to the ON position, light control switch ON	10 to 14 V

ME

3. COMBINATION METER INNER CIRCUIT





*1: with VSC

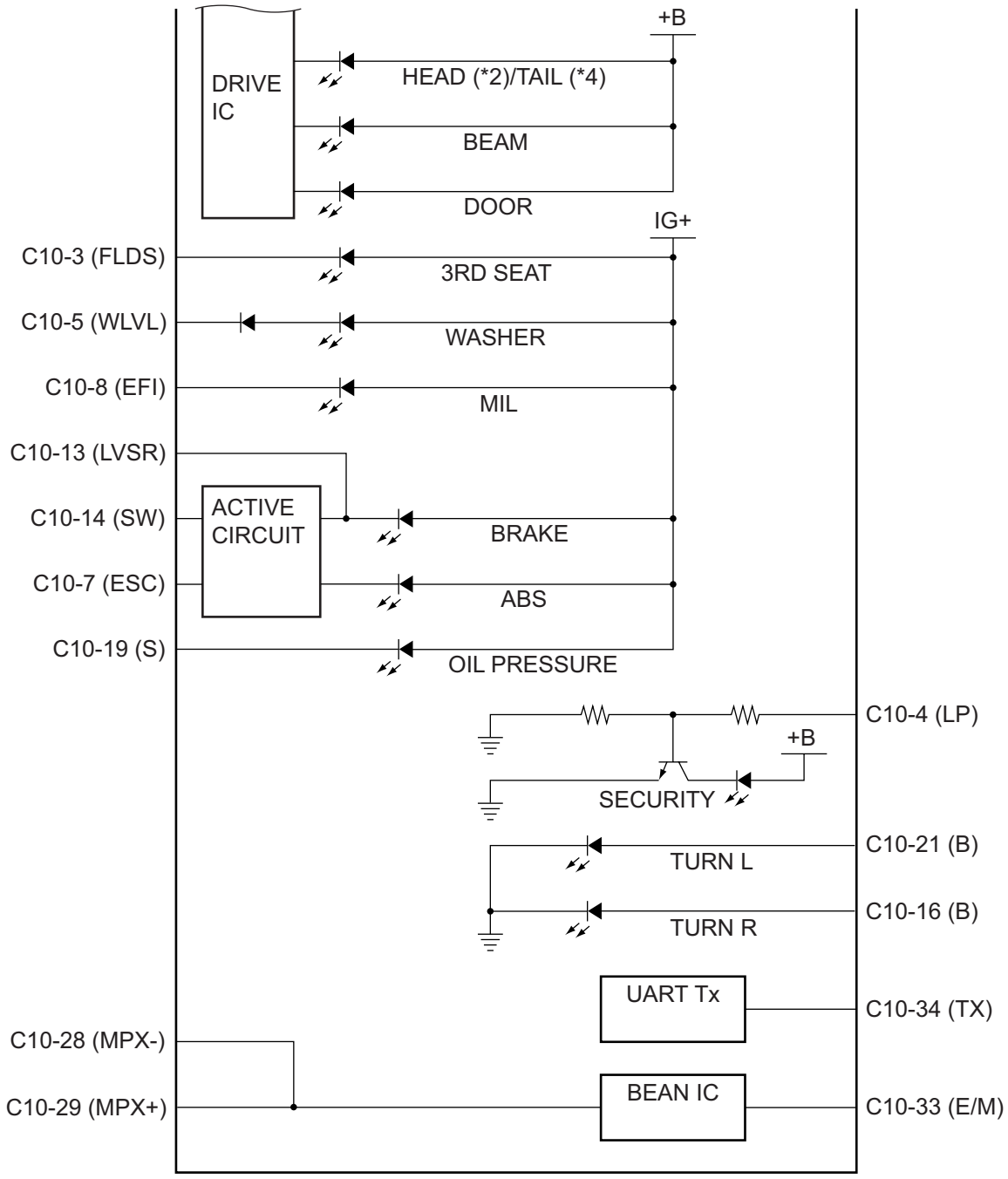
*2: for U.S.A.

*3: with Dynamic Laser Cruise Control System

H

E143783E01

ME



*2: for U.S.A. *4: Except for U.S.A.

H

E143784E01

ME

Terminals No. (Symbols)		Wire harness side
C10	1	-
	2	-
	3 (FLDS)	Power Rear No. 2 Seat ECU LH/RH (*1)
	4 (LP)	Body ECU (*2)
	5 (WLVL)	Washer Level Warning Switch
	6 (TIRE)	Tire Pressure Warning ECU
	7 (ESC)	Brake Actuator Assembly (*3)/ABS & Traction Actuator Assembly (*4)
	8 (EFI)	ECM
	9	-
	10 (FUS-)	Fuel Sender Gauge Assembly
	11	-
	12 (+B)	ECU-B Fuse
	13 (LVSR)	Brake Fluid Level Warning Switch
	14 (SW)	Brake Actuator Assembly (*3)/ABS & Traction Actuator Assembly (*4)
	15	-
	16 (B)	Turn Signal Flasher
	17	-
	18 (CHG-)	Generator
	19 (S)	Engine Oil Pressure Switch
	20	-
	21 (B)	Turn Signal Flasher
	22 (ILL-)	PANEL Fuse
	23 (ILL-)	PANEL Fuse
	24	-
	25 (ILG1)	Ground
	26 (ILG2)	Ground
	27	-
	28 (MPX-)	A/C Amplifier
	29 (MPX+)	Gateway ECU
	30 (ES)	Ground
	31	-
	32 (IG+)	GAUGE Fuse
	33 (E/M)	Accessory Meter Assembly
	34 (TX)	Accessory Meter Assembly
	35 (SI)	Brake Actuator Assembly (*3)/ABS & Traction Actuator Assembly (*4)
	36 (+S)	Each part that uses speed signal
	37 (S)	ECM
	38 (FUS+)	Fuel Sender Gauge Assembly
	39	-
	40	-

*1: for Optitron Meter, Power Rear No. 2 Seat with Stowing Function
*2: for Optitron Meter, with Theft Deterrent System
*3: without VSC
*4: with VSC