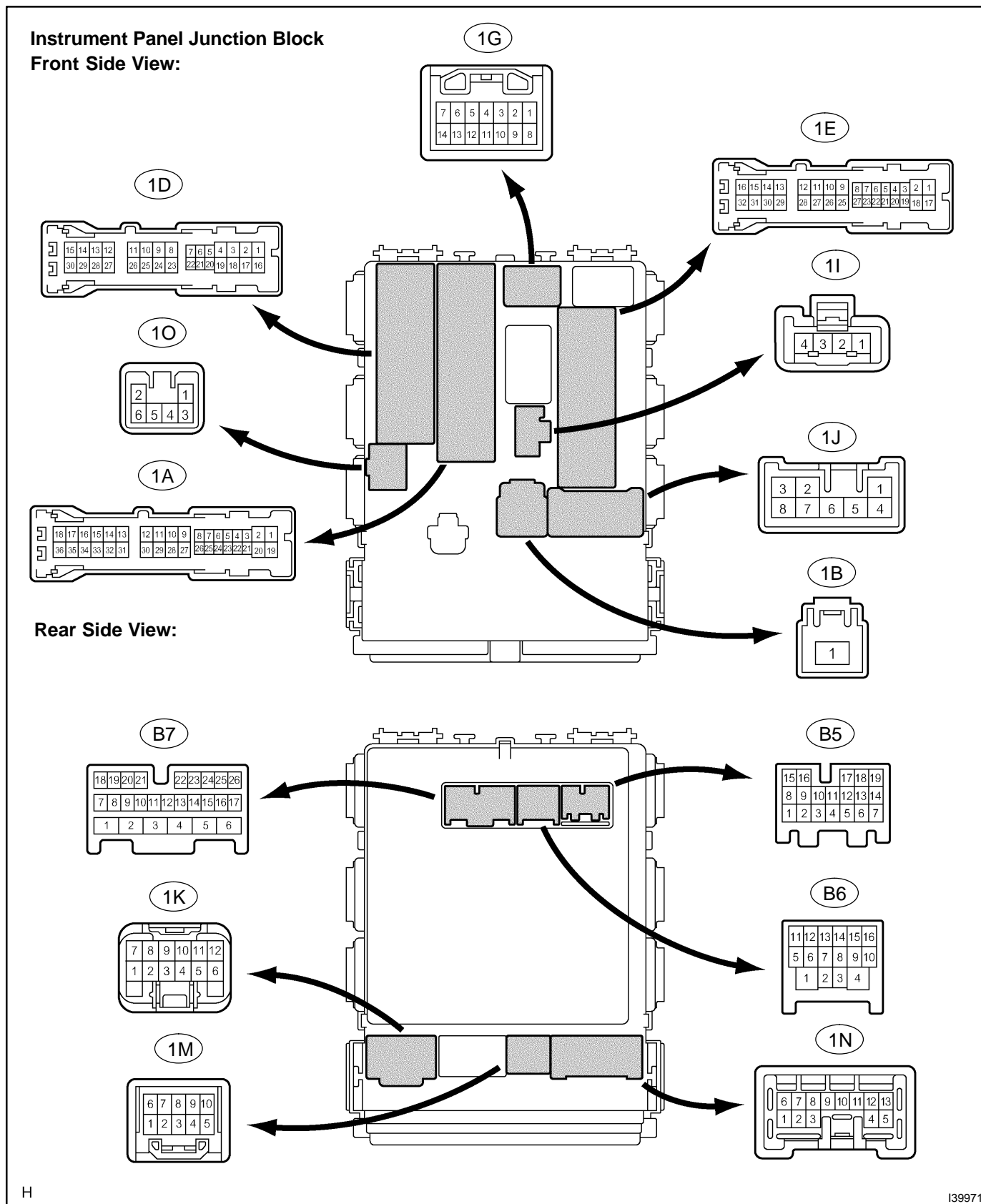


TERMINALS OF ECU

1. INSTRUMENT PANEL JUNCTION BLOCK ASSY (MULTIPLEX NETWORK BODY ECU)



H

I39971

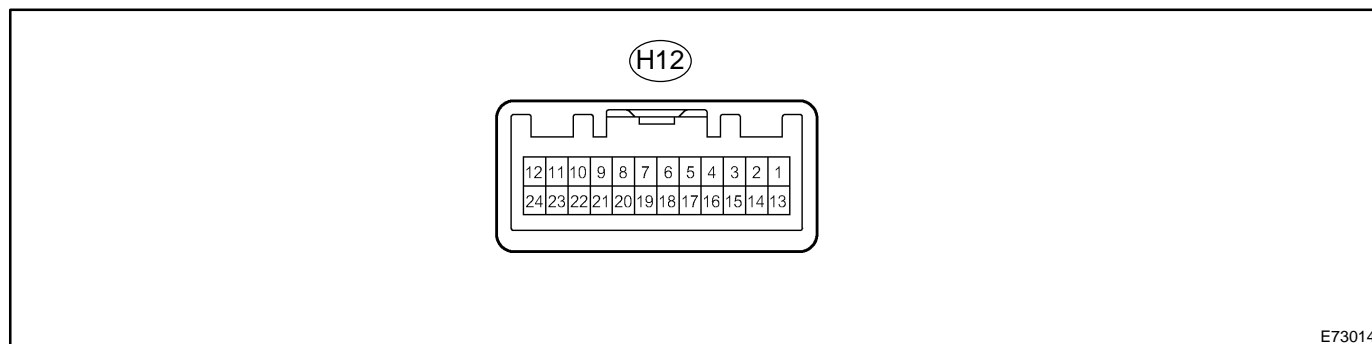
DIAGNOSTICS - LIGHTING SYSTEM

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
Tail (1A-15) – GND (1E-17)	BR – W-B	Taillamp signal (To front side marker)	Front RH side marker lamp comes on Front RH side marker lamp goes off	10 to 14 V Below 1 V
ECUB (1A-30) – GND (1E-17)	R – W-B	Power source (From battery)	Always	10 to 14 V
Tail (1A-33) – GND (1E-17)	BR – W-B	Taillamp signal (To front side marker)	Front LH side marker lamp comes on Front LH side marker lamp goes off	10 to 14 V Below 1 V
RCTY (1D-5) – GND (1E-17)	R – W-B	Rear LH door courtesy switch signal	Rear LH door is opened Rear LH door is closed	Below 1 V 10 to 14 V
BCTY (1D-7) – GND (1E-17)	R – W-B	Luggage room courtesy switch signal	Luggage room door is opened Luggage room door is closed	Below 1 V 10 to 14 V
Tail (1D-10) – GND (1E-17)	BR – W-B	Taillamp signal (To license plate light and rear combination light)	License plate lamp and rear RH combination lamp come on License plate lamp and rear RH combination lamp go off	10 to 14 V Below 1 V
RCTY(1D-20) – GND (1E-17)	R – W-B	Rear RH door courtesy switch signal	Rear LH door is opened Rear LH door is closed	Below 1 V 10 to 14 V
DCTY (1D-21) – GND (1E-17)	V – W-B	Front LH door courtesy switch signal	Front LH door is opened Front LH door is closed	Below 1 V 10 to 14 V
PCTY (1D-24) – GND (1E-17)	BR – W-B	Front RH door courtesy switch signal	Front RH door is opened Front RH door is closed	Below 1 V 10 to 14 V
Tail (1D-29) – GND (1E-17)	BR – W-B	Taillamp signal (To rear combination light)	Rear LH combination lamp comes on Rear LH combination lamp goes off	10 to 14 V Below 1 V
Tail (1E-10) – GND (1E-17)	BR – W-B	Taillamp signal (To each illumination)	Light control switch is in TAIL or HEAD Light control switch is OFF	10 to 14 V Below 1 V
GND (1E-17) – Body ground (Body ground)	W-B – Body ground	Ground	Always	Below 1 V
ILL (1E-27) – GND (1E-17)	B – W-B	Illumination signal circuit	Key slot lamp comes on Key slot lamp goes off	Below 1 V 10 to 14 V
MPX1 (1G-9) – GND (1E-17)	GR – W-B	Multiplex communication signal circuit	Power switch ON (IG)	Signal waveform
HU (1I-4) – GND (1E-17)	P – W-B	Headlamp dimmer switch signal	Headlamp dimmer switch in HIGH Headlamp dimmer switch not in HIGH	Below 1 V 10 to 14 V
Tail (1N-7) – GND (1E-17)	GR – W-B	Taillamp signal (To each illumination)	Light control switch is in TAIL or HEAD Light control switch is OFF	10 to 14 V Below 1 V
Tail (1N-9) – GND (1E-17)	G – W-B	Taillamp signal (To each illumination)	Light control switch is in TAIL or HEAD Light control switch is OFF	10 to 14 V Below 1 V
Tail (1M-6) – GND (1E-17)	L – W-B	Taillamp signal (To each illumination)	Light control switch is in TAIL or HEAD Light control switch is OFF	10 to 14 V Below 1 V
Tail (1M-8) – GND (1E-17)	G – W-B	Taillamp signal (To each illumination)	Light control switch is in TAIL or HEAD Light control switch is OFF	10 to 14 V Below 1 V

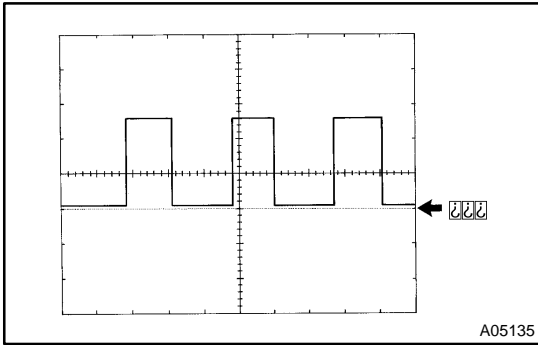
ILL (1O-2) - GND (1E-17)	L - W-B	Illumination signal circuit	Room lamp comes on Room lamp goes off (When switch is in DOOR position)	Below 1 V 10 to 14 V
CYLB (B5-7) - GND (1E-17)	W - W-B	Luggage room light signal circuit	Luggage room lamp comes on Luggage room light goes off (When switch is in DOOR position)	Below 1 V 10 to 14 V
LSWR (B5-10) - GND (1E-7)	O - W-B	Door lock position switch circuit	Rear door is in lock position Each of rear door is in unlock position	10 to 14 V Below 1 V
LIB1 (B5-13) - GND (1E-17)	SB - W-B	Front fog lamp switch signal circuit	Front fog lamp switch ON Front fog lamp switch OFF	Below 1 V 10 to 14 V
CYPL (B5-14) - GND (1E-17)	L - W-B	Door courtesy light circuit	Door courtesy lamp RH comes on Door courtesy lamp RH goes off	Below 1 V 10 to 14 V
MPX2 (B5-15) - GND (1E-17)	B - W-B	Multiplex communication signal circuit	Power switch ON (IG)	Signal waveform
FFOG (B5-17) - GND (1E-17)	Y - W-B	Front fog lamp operation signal circuit	Front fog lamp comes on Front fog lamp goes off	Below 1 V 10 to 14 V
AUTO (B5-18) - GND (1E-17)	W - W-B	Headlamp dimmer switch signal circuit	Light control switch is in AUTO Light control switch is not in AUTO	Below 1 V 10 to 14 V
CYLD (B5-19) - GND (1E-17)	Y - W-B	Door courtesy light circuit	Door courtesy lamp LH comes on Door courtesy lamp LH goes off	Below 1 V 10 to 14 V
PWM1 (B6-3) - GND (1E-7)	(*1) SB - W-B	Daytime running light operation signal	Daytime running light does not operate Daytime running light operates	10 to 14 V Below 1 V
HON (B6-12) - GND (1E-7)	W - W-B	Daytime running light operation signal	Daytime running light does not operate Daytime running light operates	Below 1 V 10 to 14 V
CLTE (B6-14) - GND (1E-7)	B - W-B	Light control sensor circuit (Ground circuit)	Always	Below 1 V
CLTS (B6-15) - GND (1E-7)	W - W-B	Light control sensor circuit (Signal circuit)	Power switch ON (IG)	Signal waveform
CLTB (B6-16) - GND (1E-7)	R - W-B	Light control sensor circuit (Power source circuit)	Power switch ON (IG)	10 to 14 V
DRL/DIM (B7-2) - GND (1E-17)	Y - W-B	DIM relay operation signal	Headlamp (High beam) comes on Headlamp (High beam) goes off	Below 1 V 10 to 14 V
HEAD (B7-3) - GND (1E-17)	B - W-B	Headlamp dimmer switch signal circuit	Light control switch is in HEAD Light control switch is not in HEAD	Below 1 V 10 to 14 V
LSWP (B7-10) - GND (1E-7)	Y - W-B	Door lock position switch circuit	Front RH door is in lock position Front RH door is in unlock position	10 to 14 V Below 1 V
HRLY (B7-20) - GND (1E-7)	G - W-B	HEAD relay operation signal	Headlamp comes on Headlamp goes off	Below 1 V 10 to 14 V
TAIL (B7-21) - GND (1E-7)	R - W-B	Headlamp dimmer switch signal circuit	Light control switch is in TAIL Light control switch is not in TAIL	Below 1 V 10 to 14 V
HF (B7-22) - GND (1E-7)	G - W-B	Headlamp dimmer switch signal circuit	Headlamp dimmer switch is in FLASH Headlamp dimmer switch is not in FLASH	Below 1 V 10 to 14 V
LSWD (B7-25) - GND (1E-7)	LG - W-B	Door lock position switch circuit	Front LH door is in lock position Front LH door is in unlock position	10 to 14 V Below 1 V

*1: w/ Daytime Running Light

2. HEADLIGHT BEAM LEVEL CONTROL ECU



Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
IG (H12-1) – E1 (H12-24)	V – W-B	Power source (From battery)	Power switch ON (IG)	10 to 14 V
SBR (H12-2) – E1 (H12-24)	P – W-B	Height control sensor (Power source)	Power switch ON (IG)	4.5 to 5.5 V
RHT (H12-3) – E1 (H12-24)	W – W-B	Headlamp beam level control actuator RH (Signal circuit)	With power switch ON (IG) and headlamp ON, change the vehicle height and keep it for more than 2 seconds	1.0 to 12.6 V (approx. 10 seconds)
LHT (H12-4) – E1 (H12-24)	R – W-B	Headlamp beam level control actuator LH (Signal circuit)	With power switch ON (IG) and headlamp ON, change the vehicle height and keep it for more than 2 seconds	1.0 to 12.6 V (approx. 10 seconds)
SHR (H12-5) – E1 (H12-24)	L – W-B	Height control sensor (Power source)	Power switch ON (IG)	Above 2.5 V
PRST (H12-9) – E1 (H12-24)	B – W-B	Initialize signal input terminal	Power switch ON (IG)	Above 5.0 V
HDLP (H12-10) – E1 (H12-24)	G – W-B	HEAD relay operate signal	Light control switch is in HEAD Light control switch is motion HEAD	Below 1 V 10 to 14 V
WNG (H12-11) – E1 (H12-24)	L – W-B	Headlamp leveling warning signal (To combination meter)	HEADLAMP LEVELING is indicate HEADLAMP LEVELING is not indicate	Below 1 V 10 to 14 V
SPDR (H12-12) – E1 (H12-24)	V – W-B	Vehicle speed signal (From combination meter)	Vehicle is driving at 30 km/h (18 mph)	Pulse generation (See waveform 1)
RH+ (H12-13) – E1 (H12-24)	B – W-B	Headlamp beam level control actuator RH (Power source circuit)	Power switch ON (IG)	10 to 14 V
LH+ (H12-14) – E1 (H12-24)	G – W-B	Headlamp beam level control actuator LH (Power source)	Power switch ON (IG)	10 to 14 V
SGR (H12-20) – E1 (H12-24)	Y – W-B	Height control sensor (Ground circuit)	Always	Below 1 V
RH- (H12-22) – E1 (H12-24)	BR – W-B	Headlamp beam level control actuator RH (Ground circuit)	Always	Below 1 V
LH- (H12-23) – E1 (H12-24)	LG – W-B	Headlamp beam level control actuator LH (Ground circuit)	Always	Below 1 V
E1 (H12-24) – Body ground (Body ground)	W-B – Body ground	Ground	Always	Below 1 V



Waveform 1

HINT:

- Terminal: SPDR - GND
- Gauge set: 5 V/DIV, 20 ms/DIV
- Condition: Vehicle is driving at approximately 30 km/h (18 mph).