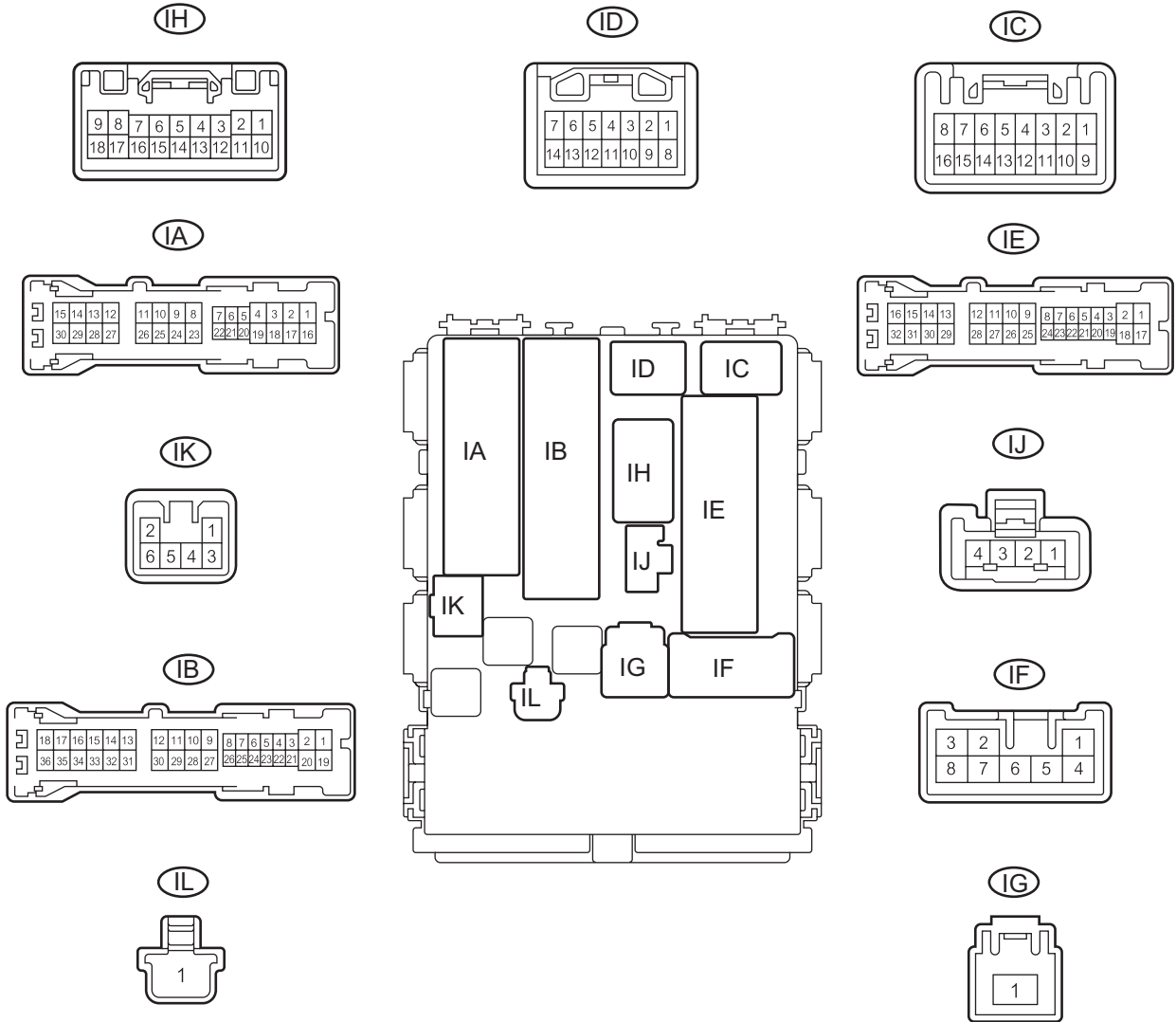


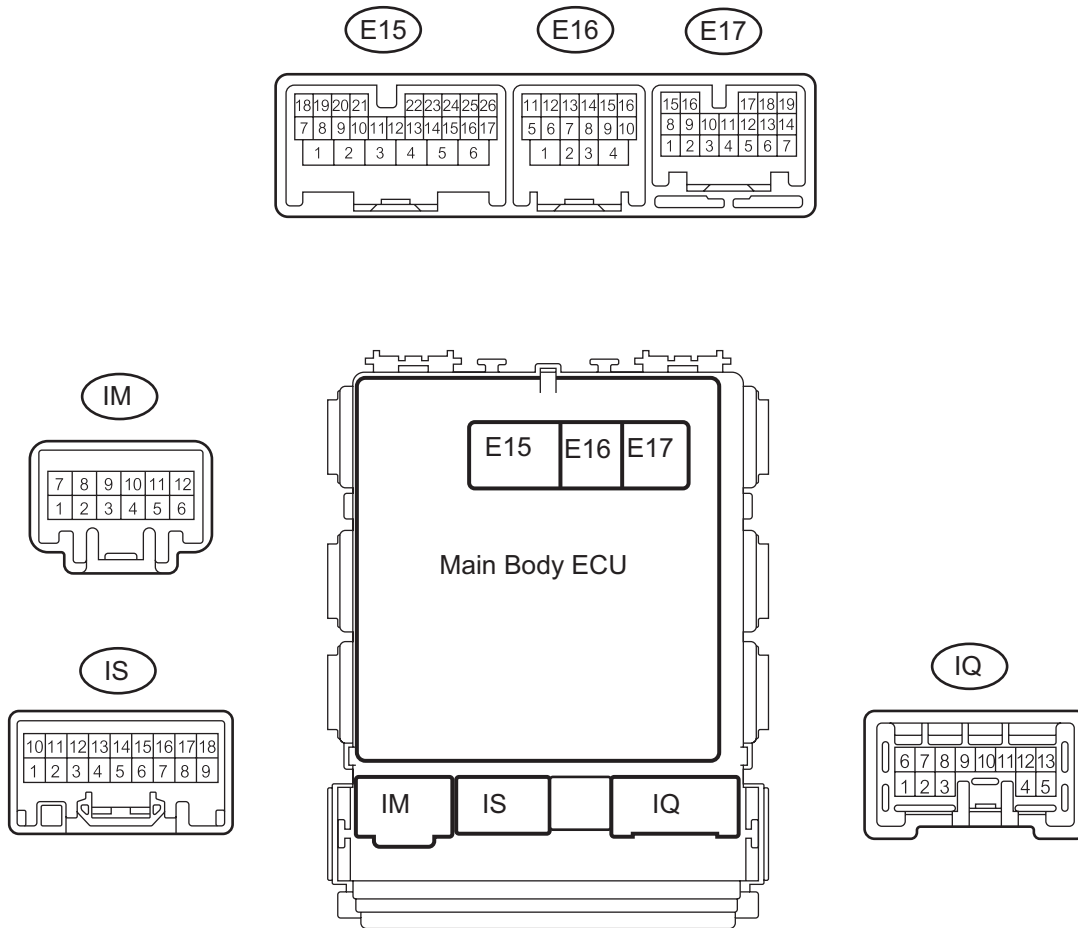
TERMINALS OF ECU

1. CHECK INSTRUMENT PANEL JUNCTION BLOCK (MAIN BODY ECU)

Instrument Panel Junction Block (Front View)



Instrument Panel Junction Block (Rear View)



H

E125304E01

(a) Measure the voltage of the connectors.

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
HRLY (E15-20) - GND1 (IE-17)	BR - W-B	Headlight Relay (HEAD signal)	Light control switch is OFF or TAIL	10 to 14 V
HRLY (E15-20) - GND1 (IE-17)	BR - W-B	Headlight Relay (HEAD signal)	Light control switch is HEAD	Below 1 V
DIM (E16-3) - GND1 (IE-17)	LG - W-B	Daytime running light Relay (High beam signal)	Light control switch is HEAD	Below 1 V
DIM (E16-3) - GND1 (IE-17)	LG - W-B	Daytime running light Relay (High beam signal)	Light control switch is HEAD	10 to 14 V
TAIL (E15-21) - GND1 (IE-17)	W - W-B	Taillight relay (TAIL signal)	Light control switch is OFF	Below 1 V
TAIL (E15-21) - GND1 (IE-17)	W - W-B	Taillight relay (TAIL signal)	Light control switch is TAIL	10 to 14 V

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
ILE (IK-2) - GND1 (IE-17)	W - W-B	Illumination signal	<ul style="list-style-type: none"> Room light switch position is DOOR Door closed 	10 to 14 V
ILE (IK-2) - GND1 (IE-17)	W - W-B	Illumination signal	<ul style="list-style-type: none"> Room light switch position is DOOR Door open 	Below 1 V
FSPT (E15-2) - GND1 (IE-17)	V - W-B	Foot light illumination (Illumination signal)	Foot light illumination OFF	10 to 14 V
FSPT (E15-2) - GND1 (IE-17)	V - W-B	Foot light illumination (Illumination signal)	Foot light illumination ON	Below 1 V
HU (IJ-4) - GND1 (IE-17)	O - W-B	Headlight dimmer switch (HIGH signal)	Light control switch is HEAD Headlight dimmer switch is LOW	10 to 14 V
HU (IJ-4) - GND1 (IE-17)	O - W-B	Headlight dimmer switch (HIGH signal)	Light control switch is HEAD Headlight dimmer switch is HIGH	Below 1 V
LCTY (E15-8) - GND1 (IE-17)	SB - W-B	Courtesy switch (Rear left door circuit)	Rear left door is closed	Below 1 V
LCTY (E15-8) - GND1 (IE-17)	SB - W-B	Courtesy switch (Rear left door circuit)	Rear left door is open	10 to 14 V
FFGO (E17-17) - GND1 (IE-17)	G - W-B	Front fog relay (Front fog circuit)	Front fog light is OFF	10 to 14 V
FFGO (E17-17) - GND1 (IE-17)	G - W-B	Front fog relay (Front fog circuit)	Front fog light is ON	Below 1 V
DCTY (IA-21) - GND1 (IE-17)	W - W-B	Courtesy switch (Front left door circuit)	Front left door is open	Below 1 V
DCTY (IA-21) - GND1 (IE-17)	W - W-B	Courtesy switch (Front left door circuit)	Front left door is closed	10 to 14 V
RRCY (ID-7) - GND1 (IE-17)	LG - W-B	Courtesy switch (Rear right door circuit)	Rear right door is open	Below 1 V
RRCY (ID-7) - GND1 (IE-17)	LG - W-B	Courtesy switch (Rear right door circuit)	Rear right door is closed	10 to 14 V
HF (E15-22) - GND1 (IE-17)	R - W-B	Headlight dimmer switch (FLASH signal)	Headlight dimmer switch is OFF	10 to 14 V
HF (E15-22) - GND1 (IE-17)	R - W-B	Headlight dimmer switch (FLASH signal)	Headlight dimmer switch is FLASH	Below 1 V
FFOG (E17-13) - GND1 (IE-17)	GR - W-B	Front fog light switch (Front fog light signal)	Light control switch is TAIL Fog light switch is OFF	10 to 14 V
FFOG (E17-13) - GND1 (IE-17)	GR - W-B	Front fog light switch (Front fog light signal)	Light control switch is TAIL Fog light switch is ON	Below 1 V
PCTY (IC-14) - GND1 (IE-17)	BR - W-B	Courtesy switch (Front right door circuit)	Front right door is open	Below 1 V
PCTY (IC-14) - GND1 (IE-17)	BR - W-B	Courtesy switch (Front right door circuit)	Front right door is closed	10 to 14 V
BCTY (IA-7) - GND1 (IE-17)	LG - W-B	Courtesy switch (Back door)	Back door is open	Below 1 V
BCTY (IA-7) - GND1 (IE-17)	LG - W-B	Courtesy switch (Back door)	Back door is closed	10 to 14 V
LSWP (E15-10) - GND1 (IE-17)	Y - W-B	Door lock position switch (Front right door)	Front right door is in unlock position	10 to 14 V
LSWP (E15-10) - GND1 (IE-17)	Y - W-B	Door lock position switch (Front right door)	Front right door is in lock position	Below 1 V
LSWD (E15-25) - GND1 (IE-17)	Y - W-B	Door lock position switch (Front left door)	Front left door is in unlock position	10 to 14 V
LSWD (E15-25) - GND1 (IE-17)	Y - W-B	Door lock position switch (Front left door)	Front left door is in lock position	Below 1 V



If the result is not as specified, the junction block (main body ECU) may have a malfunction.

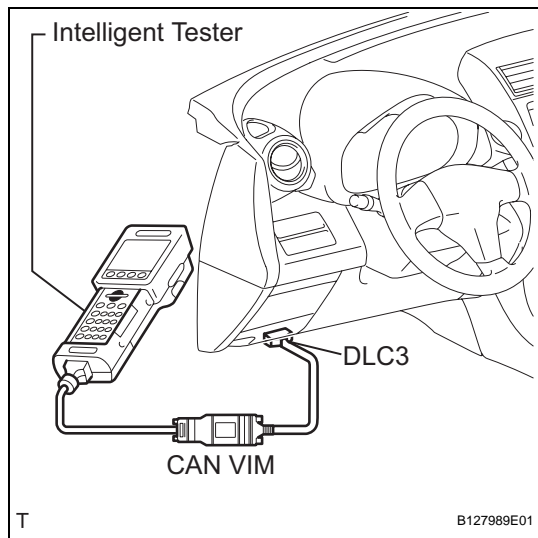
DATA LIST / ACTIVE TEST

1. READ DATA LIST

HINT:

Using the intelligent tester's DATA LIST allows switch, sensor, actuator and other item values to be read without removing any parts. Reading the DATA LIST early in troubleshooting is one way to save time.

- Connect the intelligent tester (with CAN VIM) to the DLC3.
- Turn the ignition switch ON.
- Read the DATA LIST according to the display on the tester.



Main body ECU

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
ACC SW	ACC switch signal / ON or OFF	ON: Ignition switch is in ACC, ON or START position OFF: Ignition switch is in OFF position	-
IG SW	IG switch signal / ON or OFF	ON: Ignition switch is in ON or START position OFF: Ignition switch is in OFF or ACC position	-
D DOR CTY SW	Driver's door courtesy switch signal / ON or OFF	ON: Driver's door is open OFF: Driver's door is closed	-
D LOCK POS SW	Driver's door lock position switch signal / ON or OFF	ON: Door lock is in unlock position OFF: Door lock is in lock position	-
P DOR CYT SW	Passenger's door courtesy switch signal / ON or OFF	ON: Front passenger's door is open OFF: Front passenger's door is closed	-
P LOCK POS SW	Front passenger's door lock position switch signal / ON or OFF	ON: Front passenger's door lock is in unlock position OFF: Front passenger's door lock is in lock position	-
RR DOR CTY SW	Rear door RH courtesy switch signal / ON or OFF	ON: Right rear door is open OFF: Right rear door is closed	-
DIMMER SW	Headlight dimmer switch signal / ON or OFF	ON: Headlight dimmer switch is in HI or FLASH position OFF: Headlight dimmer switch is in LO position	-
HIGH FLASHER SW	Headlight dimmer switch signal / ON or OFF	ON: Headlight dimmer switch is in FLASH position OFF: Headlight dimmer switch is in except FLASH position	-
F FOG LIGHT SW	Front fog light switch signal / ON or OFF	ON: Front fog light switch is ON position OFF: Front fog light switch is OFF position	-
HEAD LIGHT SW	Headlight control switch signal / ON or OFF	ON: Light control switch is in HEAD position OFF: Light control switch is in except HEAD position	-

Item	Measurement Item/ Display (Range)	Normal Condition	Diagnostic Note
TAIL LIGHT SW	Taillight switch signal / ON or OFF	ON: Light control switch is in TAIL or HEAD position OFF: Light control switch is in OFF position	-
RL DOR CTY SW	Rear door LH courtesy switch signal / ON or OFF	ON: Left rear door is open OFF Left rear door is closed	-
BK DOR CTY SW	Back door courtesy switch signal / ON or OFF	ON: Back door is open OFF: Back door is closed	-

2. PERFORM ACTIVE TEST

HINT:

Performing the intelligent tester's ACTIVE TEST allows relay, VSV, actuator and other items to be operated without removing any parts. Performing the ACTIVE TEST early in troubleshooting is one way to save time. The DATA LIST can be displayed during the ACTIVE TEST.

- (a) Connect the intelligent tester (with CAN VIM) to the DLC3.
- (b) Turn the ignition switch ON.
- (c) Perform the ACTIVE TEST by following the directions on the tester screen.

Main body ECU

Item	Test Details	Diagnostic Note
HAZARD	Turn hazard light flasher relay ON / OFF	-
F FOG LIGHT RLY	Turn front fog light relay ON / OFF	-
HEAD LIGHT	Turn headlight relay ON / OFF	-
HEAD LIGHT (HI)	Turn headlight dimmer relay (Headlight dimmer switch HI position) ON / OFF	-
TAIL LIGHT	Turn taillight relay ON / OFF	-
ILLUMI OUTPUT	Test Details: Turn interior light and key illumination ON / OFF Vehicle Condition: Interior light switch is in DOOR position and all doors are closed	-
STEP LIGHT	Foot light illumination ON / OFF	-