

2010 Suzuki Kizashi GTS

2010 ACCESSORIES AND BODY, CAB Lighting Systems - Kizashi

- Active tests: **SCAN TOOL ACTIVE TEST TABLE**

INSPECTION OF DRL CONTROL MODULE AND ITS CIRCUIT

Voltage and Signal Check

Check each terminal voltage and output waveform using voltmeter and oscilloscope function of SUZUKI scan tool.

NOTE:

- Check that battery voltage is 11 V or more.
- An "ignition mode" in the following table represents a power supply mode available with the keyless push start system. For more details, refer to **DESCRIPTION OF KEYLESS ENGINE START FUNCTION** .
- Outputs from terminals marked with asterisk (*) cannot be measured with voltmeter because they are pulse signals. Use oscilloscope for measuring these outputs.

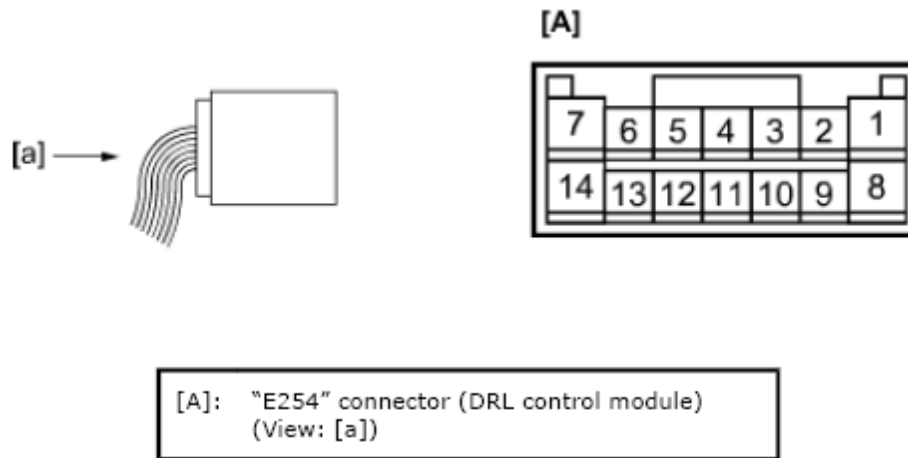


Fig. 2: Identifying E254 Connector Terminals (DRL Control Module)
Courtesy of SUZUKI OF AMERICA CORP.

E254 CONNECTOR TERMINALS REFERENCE

Terminal	Wire color	Circuit	Normal voltage	Condition
E254-1	BLU/BLK	Power source	Approx. 12 V	Ignition mode "ON"
E254-3*	PNK/GRN	DRL signal	Refer to <u>REFERENCE WAVEFORM. DRL SIGNAL</u>	
E254-5*	GRY	Headlight (HI) signal	Refer to <u>REFERENCE WAVEFORM. HEADLIGHT (HI) SIGNAL</u>	
E254-7	RED/YEL	Power source	Approx. 12 V	Ignition mode "ON"
E254-8*	WHT/BLU	Headlight (L) (HI) output	Refer to <u>REFERENCE WAVEFORM. HEADLIGHT (L) (HI) OUTPUT</u>	
E254-11	BLK	Ground	Approx. 0 V	

2010 Suzuki Kizashi GTS

2010 ACCESSORIES AND BODY, CAB Lighting Systems - Kizashi

E254-14* WHT/RED Headlight (R) (HI) output

Refer to **REFERENCE WAVEFORM.**
HEADLIGHT (R) (HI) OUTPUT

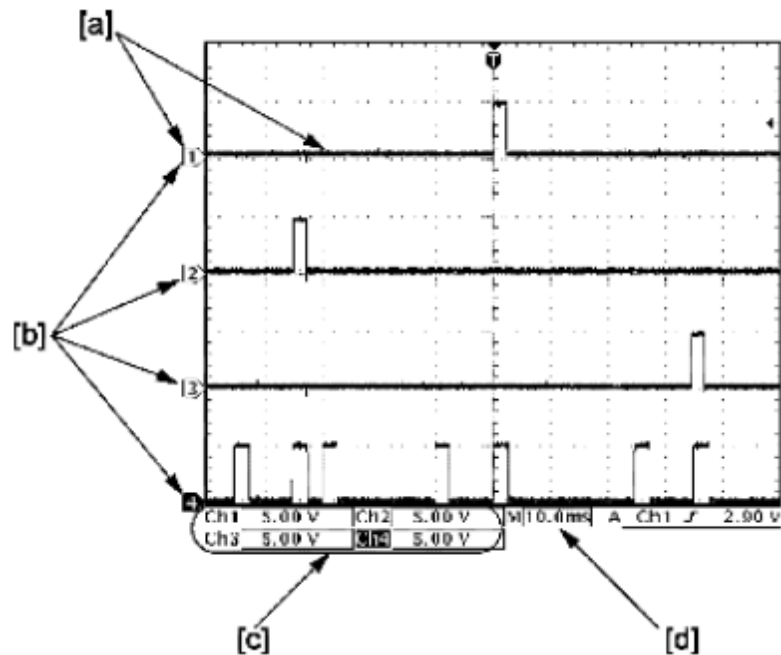
Reference Waveform

Oscilloscope display

Shown below is typical waveform display provided by oscilloscope.

NOTE:

- Display includes the following types of data:



[a]: Waveform of channel 1	[c]: VOLT/DIV of each channel
[b]: Ground level of each channel	[d]: TIME/DIV

Fig. 3: Identifying Channel Waveform
Courtesy of SUZUKI OF AMERICA CORP.

- Waveforms may vary with measurement conditions and vehicle specifications.

2010 Suzuki Kizashi GTS

2010 ACCESSORIES AND BODY, CAB Lighting Systems - Kizashi

TERMINALS REFERENCE

Channel	Probe	Terminal No.
CH1	+	E254-3
	-	E254-11

Measurement condition

- Engine: Idle speed
- Parking brake: Released
- Lighting switch: "OFF"

Headlight (HI) signal

TERMINALS REFERENCE

Channel	Probe	Terminal No.
CH1	+	E254-5
	-	E254-11

Measurement condition

- Engine: Idle speed
- Parking brake: Released
- Lighting switch: "OFF"

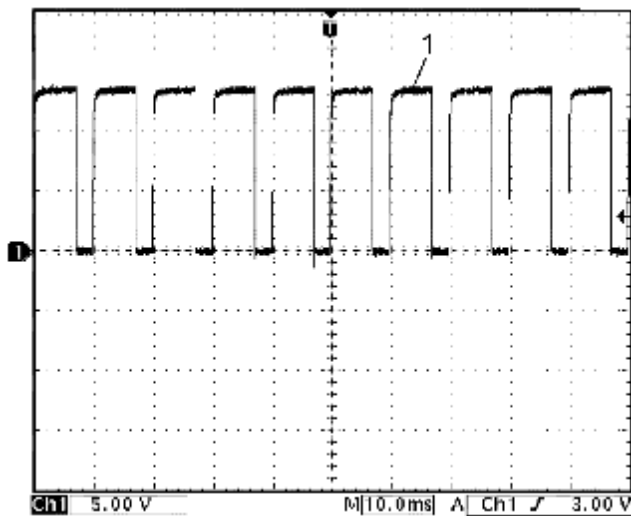


Fig. 4: Identifying Waveform

Courtesy of SUZUKI OF AMERICA CORP.

Headlight (L) (HI) output

TERMINALS REFERENCE

2010 Suzuki Kizashi GTS

2010 ACCESSORIES AND BODY, CAB Lighting Systems - Kizashi

Channel	Probe	Terminal No.
CH1	+	E254-8
	-	E254-11

Measurement condition

- Engine: Idle speed
- Parking brake: Released
- Lighting switch: "OFF"

Headlight (R) (HI) output

TERMINALS REFERENCE

Channel	Probe	Terminal No.
CH1	+	E254-14
	-	E254-11

Measurement condition

- Engine: Idle speed
- Parking brake: Released
- Lighting switch: "OFF"

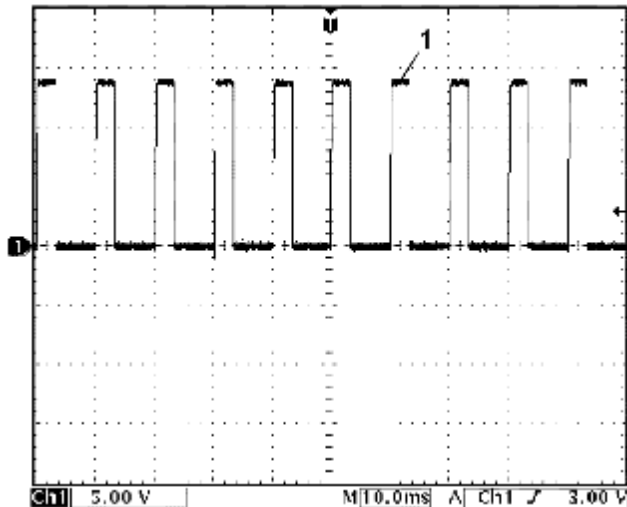


Fig. 5: Identifying Waveform

Courtesy of SUZUKI OF AMERICA CORP.

INSPECTION OF RAIN/LIGHT SENSOR AND ITS CIRCUIT (IF EQUIPPED)

Refer to INSPECTION OF RAIN/LIGHT SENSOR AND ITS CIRCUIT (IF EQUIPPED) .