

## 2010 Suzuki Kizashi GTS

2010 ACCESSORIES AND BODY, CAB Lighting Systems - Kizashi

- Active tests: SCAN TOOL ACTIVE TEST TABLE

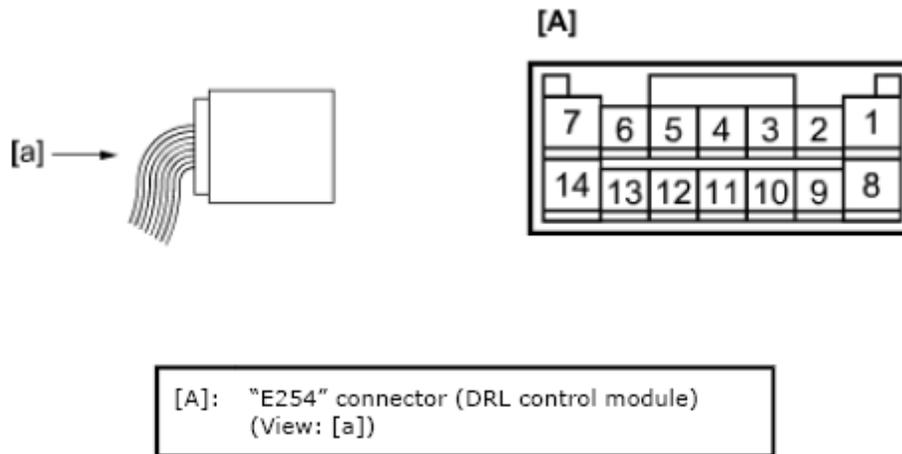
### INSPECTION OF DRL CONTROL MODULE AND ITS CIRCUIT

#### 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	

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E254-14*	WHT/RED	Headlight (R) (HI) output	Refer to <b><u>REFERENCE WAVEFORM. HEADLIGHT (R) (HI) OUTPUT</u></b>
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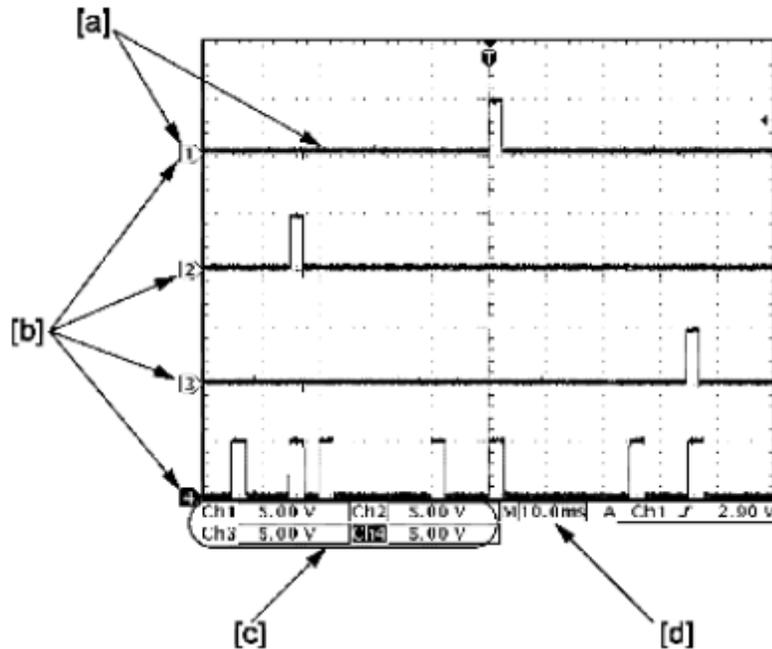
### Reference Waveform

### 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**  
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- Waveforms may vary with measurement conditions and vehicle specifications.

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### TERMINALS REFERENCE

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

### Measurement condition

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

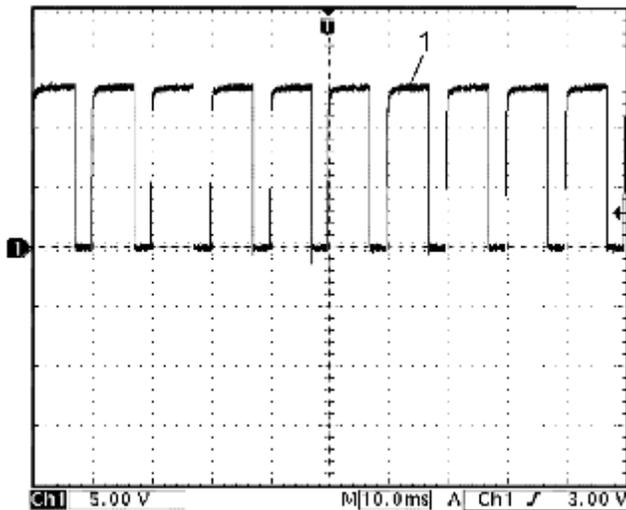
### Headlight (HI) signal

### 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**

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### Headlight (L) (HI) output

### TERMINALS REFERENCE

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

### Measurement condition

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

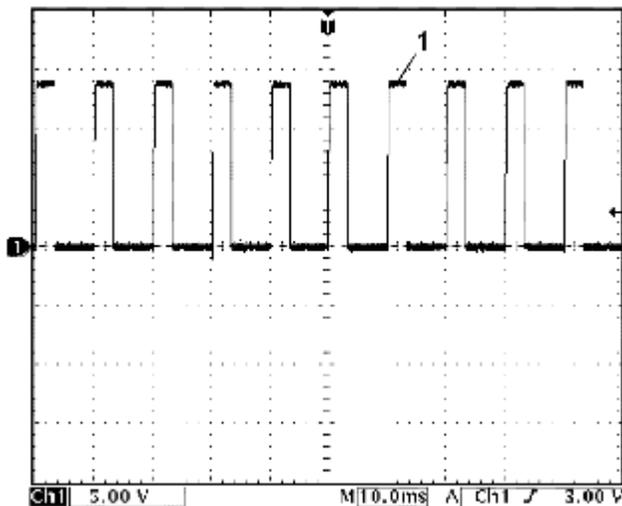
### Headlight (R) (HI) output

#### 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**

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

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