## **HEADLIGHT (w/ DAYTIME RUNNING LIGHT)**

### **SYSTEM OUTLINE**

Current is constantly applied from the battery as follows:

ALT fuse to tail relay (Coil side) to TERMINAL 3 of the daytime running light relay. MAIN fuse to HEAD LP relay (Coil side) to TERMINAL 5 of the daytime running light relay. ECU–B2 fuse to TERMINAL 12 of the daytime running light relay. When the ignition SW is turned to ON, the current flows from ECU–IG fuse to TERMINAL 1 of the daytime running light relay.

## 1. DAYTIME RUNNING LIGHT OPERATION

When the engine is started, a signal from the alternator is input to TERMINAL 5 of the daytime running light relay. This activates the daytime running light relay, allowing the current to flow as follows, and light up the related lights:

Tail relay (Point side) to TAIL fuse, PANEL fuse to taillight, front clearance light, license plate light, illumination. As the same time, the current also flows from HEAD LP relay (Point side) to H–LP L LWR fuse, H–LP R LWR fuse to headlight LH, RH (Low), and light up the headlights.

### 2. TAILLIGHT OPERATION

When the light control SW is turned to TAIL position, a signal is input to TERMINAL 2 of the daytime running light relay, and the current flows as follows, and turns the tail relay ON:

ALT fuse to tail relay (Coil side) to TERMINAL 3 of the daytime running light relay to TERMINAL 2 to TERMINAL 14 of the light control SW to GROUND. At this time, the current also flows from the tail relay (Point side) to TAIL fuse, PANEL fuse to taillight, front clearance light, license plate light, illumination, and light up the related lights.

### 3. HEADLIGHT OPERATION

\* When the light control SW is turned to HEAD position

The signal input to TERMINAL 5 of the daytime running light relay allows the current to flow as follows, and turns the HEAD LP relay ON:

MAIN fuse to HEAD LP relay (Coil side) to TERMINAL 5 of the daytime running light relay to TERMINAL 4 to TERMINAL 13 of the light control SW to GROUND. At the same time, the current flows from HEAD LP relay (Point side) to H–LP L LWR fuse, H–LP R LWR fuse to head light LH, RH (Low), and light up the lights.

\* When the Dimmer SW is turned to HIGH position

The current flows as follows, and turns the DIMMER relay ON:

DRL fuse to DIMMER relay (Coil side) to TERMINAL 14 of the daytime running light relay to TERMINAL 13 to TERMINAL 7 of the comb. SW to TERMINAL16 to GROUND. At the same time, the current flows from DIMMER relay (Point side) to HEAD L UPR fuse, HEAD R UPR fuse to headlight LH, RH (High), and light up the lights.

\* When the Dimmer SW is turned to FLASH position

The current flows as follows, and turns the HEAD LP relay ON:

MAIN fuse to HEAD LP relay (Coil side) to TERMINAL 5 of the daytime running light relay to TERMINAL 6 to TERMINAL 8 of the comb. SW to TERMINAL 16 to GROUND. At the same time, the current flows as follows, and turns the DIMMER relay ON:

DRL fuse to DIMMER relay (Coil side) to TERMINAL 14 of the daytime running light relay to TERMINAL 6 to TERMINAL 8 of the comb. SW to TERMINAL 16 to GROUND. This lights up the headlight LH, RH (High) and headlight LH, RH (Low), as when the dimmer SW is turned to HIGH position.

## SERVICE HINTS

### **HEAD LP RELAY**

1–2 : Closed with light control SW at **HEAD** position or dimmer SW at **FLASH** position

### **DIMMER RELAY**

1-2: Closed with daytime running light operation

Closed with light control SW at **HEAD** position and dimmer SW at **HIGH** position Closed with dimmer SW at **FLASH** position

## **C14 COMBINATION SW**

13-16: Closed with light control SW at **HEAD** position

14-16: Closed with light control SW at TAIL or HEAD position

8–16 : Closed with dimmer SW at **FLASH** position

7-16: Closed with dimmer SW at HIGH or FLASH position

## **D1 DAYTIME RUNNING LIGHT RELAY**

12-GROUND: Always approx. 12 volts

10-GROUND: Always continuity

4-GROUND: Continuity with the light control SW at **HEAD** position

2-GROUND: Continuity with the light control SW at TAIL or HEAD position

6-GROUND : Continuity with the light control SW at **FLASH** position

13-GROUND: Continuity with the light control SW at HIGH or FLASH position

1-GROUND: Approx. 12 volts with the ignition SW at ON position

## : PARTS LOCATION

Code		See Page	Code		See Page	Code	See Page
A13		96 (LHD)	C14		98 (LHD)	H6	97 (LHD)
A14	Α	98 (LHD)	D	1	98 (LHD)	H7	97 (LHD)
A15	В	98 (LHD)	E2	Α	96 (LHD)	H8	97 (LHD)
В6	Α	98 (LHD)	E3	В	96 (LHD)	J5	99 (LHD)
C10	Α	98 (LHD)	E6	Е	96 (LHD)	J9	99 (LHD)
C11	В	98 (LHD)	H5		97 (LHD)	J11	99 (LHD)

## : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	80 (LHD)	Engine Room No.1 R/B (Engine Compartment Right)
2	80 (LHD)	Engine Room No.2 R/B (Engine Compartment Right)
3	94 (LHD)	Engine Room No.3 R/B (Engine Compartment Right)

# : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A		
1E	82 (LHD)	Instrument Panel Wire and Driver Side J/B (Left Kick Panel)
1F	1F	
1G	82 (LHD)	Engine Room Main Wire and Driver Side J/B (Left Kick Panel)
10	02 (LITD)	Lingine Room Main Wile and Driver Side 3/B (Left Rick Faller)
2B	84 (LHD)	Engine Room Main Wire and Passenger Side J/B (Right Kick Panel)
2F		
2G	84 (LHD)	Instrument Panel Wire and Passenger Side J/B (Right Kick Panel)
21		
2M	84 (LHD)	Engine Room Main Wire and Passenger Side J/B (Right Kick Panel)

## : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

ı	Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
Ī	IA3	114 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Near the Driver Side J/B)

## : GROUND POINTS

Code	See Page	Ground Points Location
EC	112 (LHD)	Left Fender Apron
ID	114 (LHD)	Cowl Side Panel LH
IG	114 (LHD)	Cowl Side Panel RH