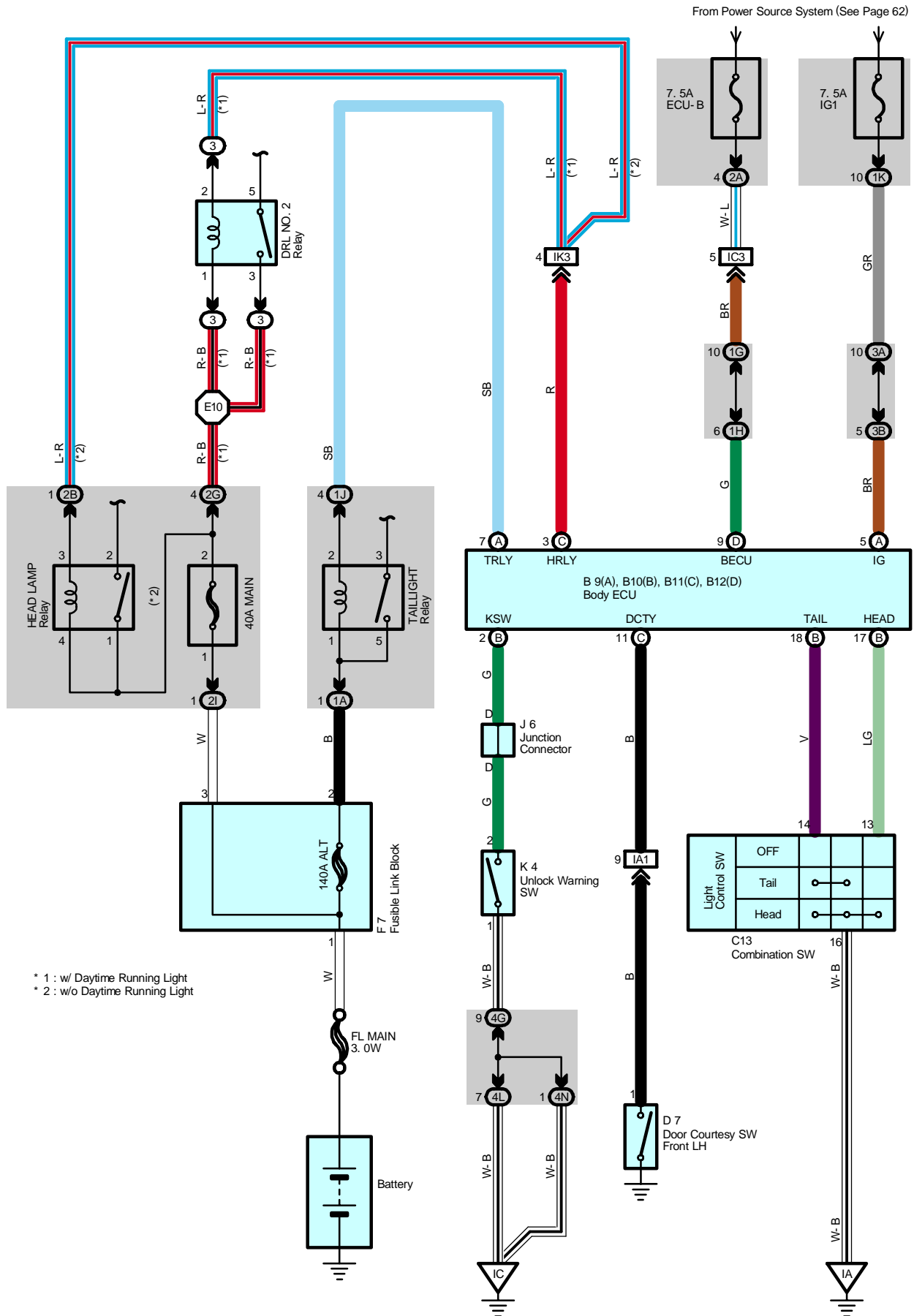


Light Auto Turn Off System



System Outline

With the ignition SW turned on, the current flows to TERMINAL (A) 5 of the body ECU through IG1 fuse.

Voltage is applied at all times to TERMINAL (A) 7 of the body ECU through the TAILLIGHT relay. Coil side, and to TERMINAL (C) 3 through the HEAD LAMP relay coil side (w/o daytime running light) or through the DRL NO.2 relay (w/ daytime running light).

1. Normal Lighting Operation

<Turn taillight on>

With the light control SW turned to TAIL position, a signal is input into TERMINAL (B) 18 of the body ECU. Due to this signal, the current flowing to TERMINAL (A) 7 of the body ECU flows to TERMINAL (B) 18 to TERMINAL 14 of the light control SW to TERMINAL 16 to GROUND, and TAILLIGHT relay causes taillights to turn on.

<Turn headlight on>

With the light control SW turned to HEAD position, a signal is input into TERMINALS (B) 17 and (B) 18 of the body ECU. Due to this signal, the current flowing to TERMINAL (C) 3 of the body ECU flows to TERMINAL (B) 17 to TERMINAL 13 of the light control SW to TERMINAL 16 to GROUND in the headlight circuit, and causes TAILLIGHT and HEAD LAMP (w/o daytime running light) or DRL NO.2 relay (w/ daytime running light) to turn the lights on. The taillight circuit is same as above.

2. Light Auto Turn Off Operation

With light on and ignition SW turned off (Input signal goes to TERMINAL (A) 5 of the body ECU), when the driver's door is opened (Input signal goes to TERMINAL (C) 11 of the body ECU), the ECU operates and the current is cut off which flows from TERMINAL (A) 7 of the body ECU to TERMINAL (B) 18 in taillight circuit and from TERMINAL (C) 3 to TERMINAL (B) 17 in headlight circuit.

As a result, all lights are turned off automatically.

Service Hints

B9 (A), B10 (B), B12 (D) Body ECU

(D) 9-Ground : Always approx. 12 volts

(A) 5-Ground : Approx. 12 volts with the ignition SW at ON position

(B)17-Ground : Continuity with the light control SW at HEAD position

K4 Unlock Warning SW

2-1 : Closed with the ignition key in the cylinder

○ : PARTS LOCATION

Code			See Page			Code			See Page			Code			See Page		
B9	A	42				C13	42					J6	43				
B10	B	42				D7	44					K4	43				
B11	C	42				F7	38 (3MZ-FE)										
B12	D	42					40 (2AZ-FE)										

○ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
3	23	Engine Room R/B No.3 (Engine Compartment Rear Left)

Light Auto Turn Off System



: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1H		
1J	28	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B		
2G		
2I		
3A	30	Instrument Panel Wire and Center J/B (Behind the Instrument Panel Center)
3B		
4G	33	Cowl Wire and Passenger Side J/B (Right Side of Grove Box)
4L	32	
4N		



: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	52	Cowl Wire and Floor No.2 Wire (Left Kick Panel)
IC3	52	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IK3	54	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)



: GROUND POINTS

Code	See Page	Ground Points Location
IA	52	Left Cowl Side Panel
IC	52	Right Cowl Side Panel



: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E10	48 (3MZ-FE)	Engine Room Main Wire	E10	50 (2AZ-FE)	Engine Room Main Wire

