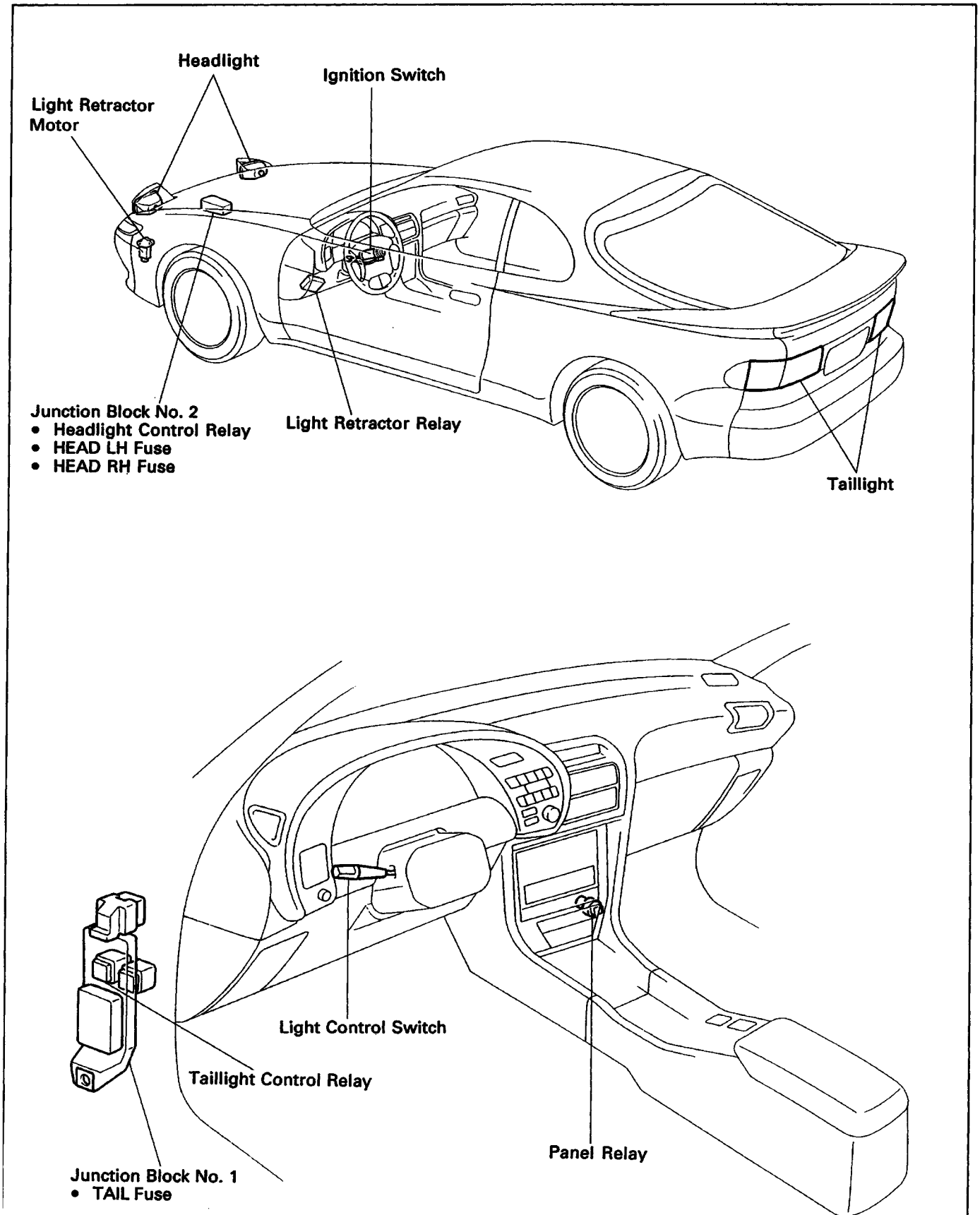
HEADLIGHT AND TAILLIGHT SYSTEM

PARTS LOCATION



N06606
N06607

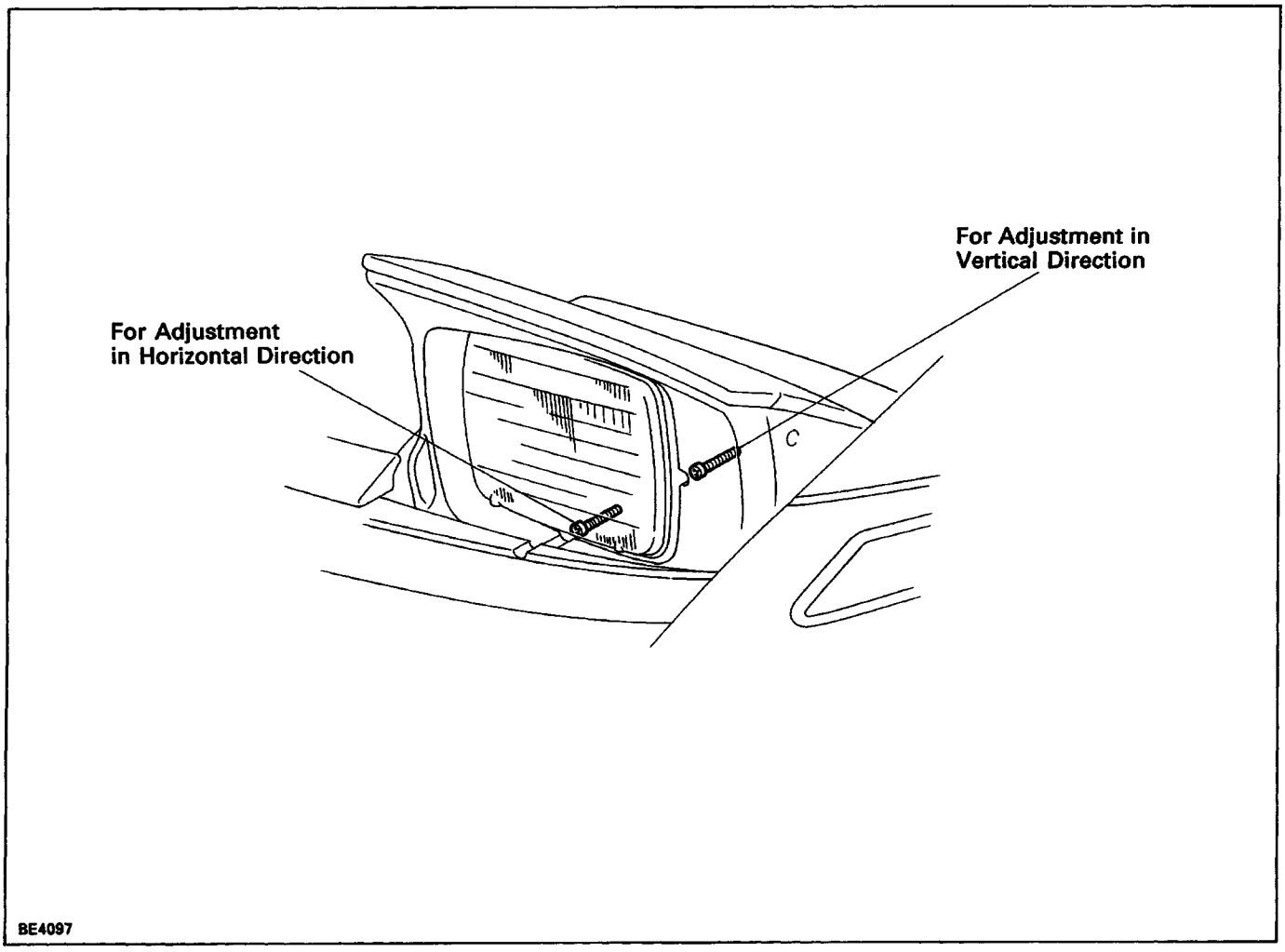
TROUBLESHOOTING

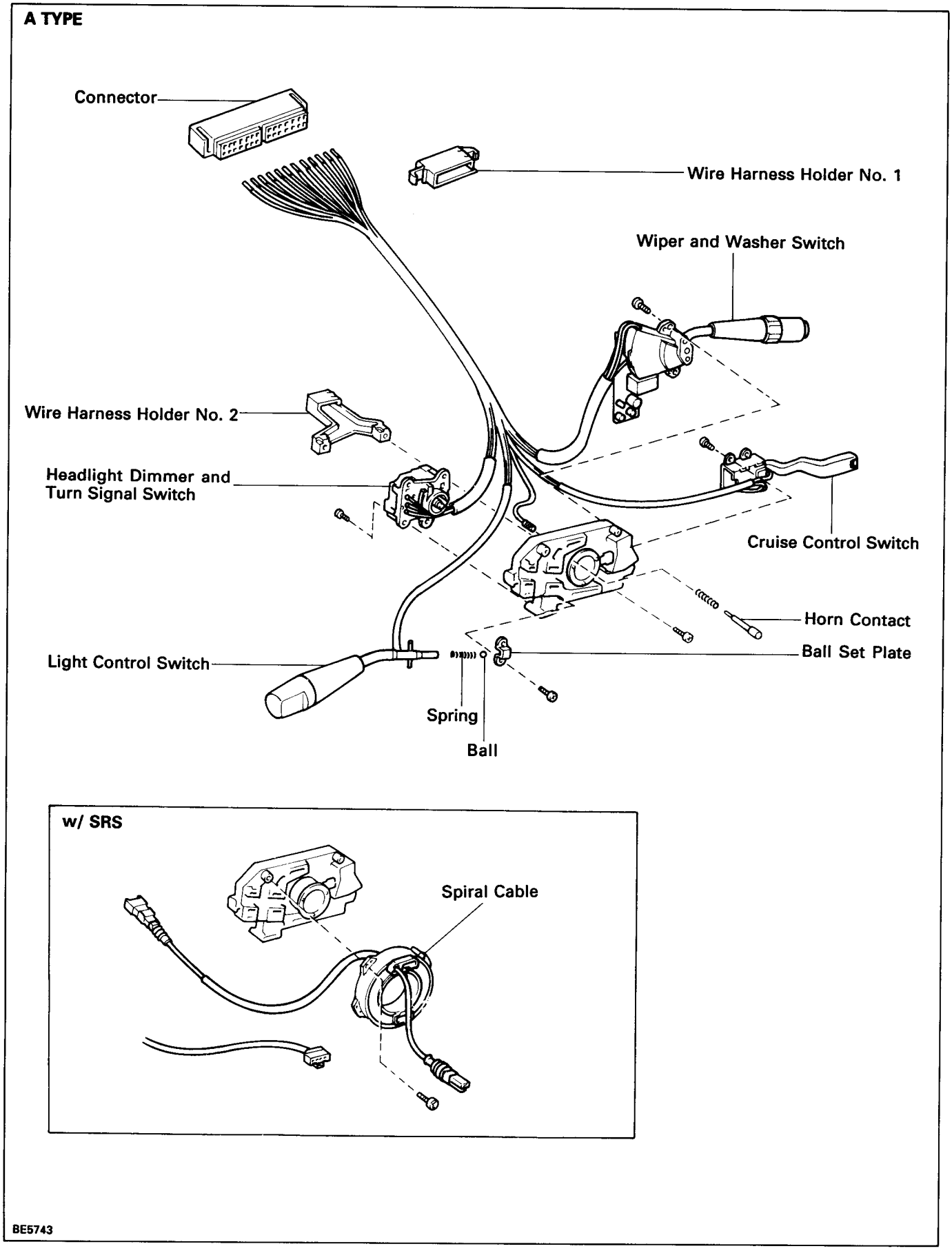
The table below will be useful for you in troubleshooting these electrical problems.
The most likely causes of the malfunction are shown in the order of their probability.
Inspect each part in the order shown, and replace the part when it is found to be faulty.

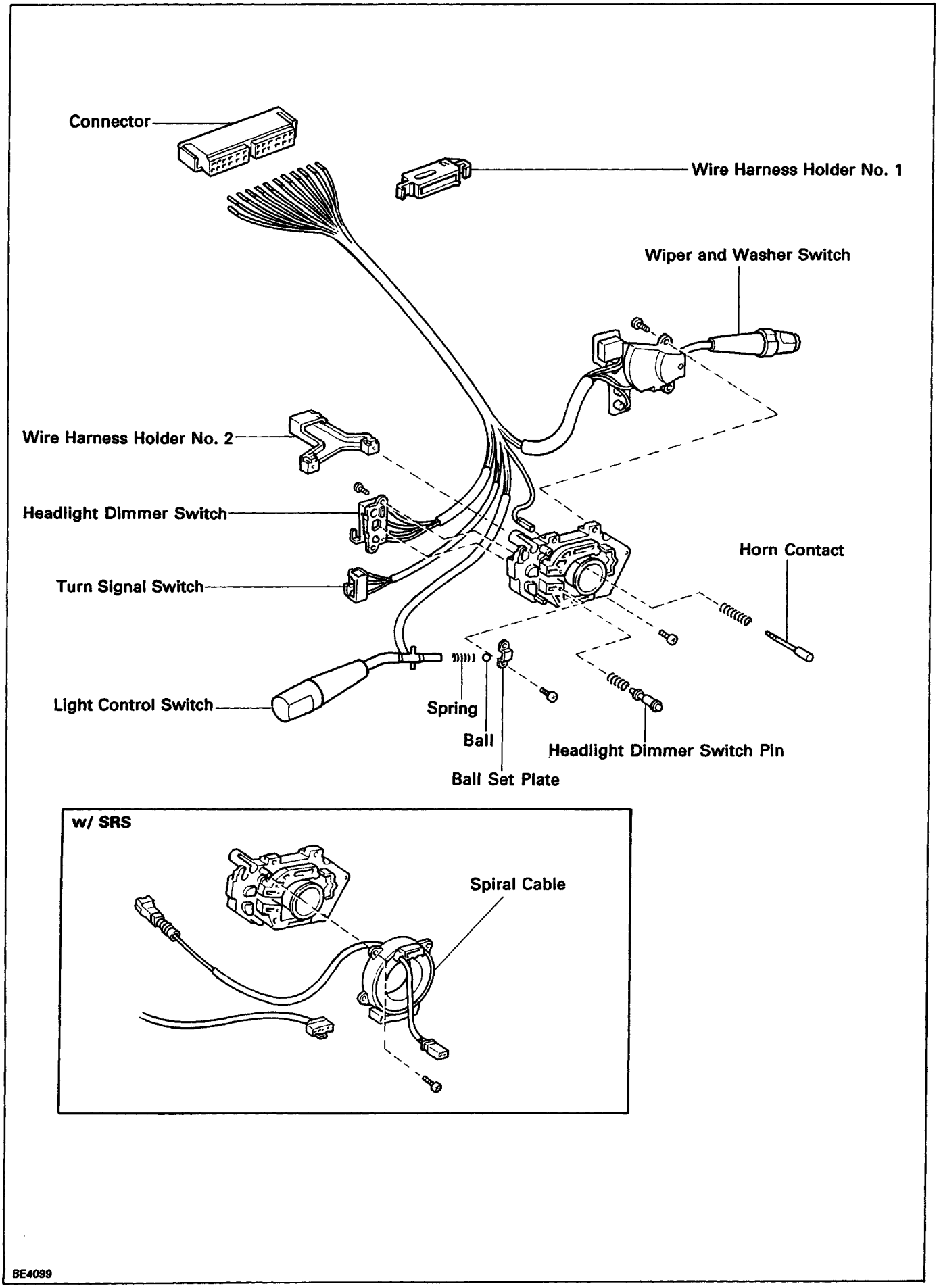
Trouble	Part name	See page
Only one light come ON	1. Bulb 2. Wire Harness	– –
Headlight do not light	1. MAIN FL 2. HEAD Fuse 3. Headlight Control Relay 4. Light Control Switch 5. Dimmer Switch 6. Wire Harness	— BE–3 BE–21 BE–20 BE–20 —
High beam headlights or headlight flashers do not operate	1. Light Control Switch 2. Dimmer Switch 3. Wire Harness	BE–20 BE–20
Tail, parking and licence light do not light	1. MAIN FL 2. TAIL Fuse 3. Taillight Control Relay 4. Light Control Switch 5. Wire Harness	— BE–3 BE–21 BE–20 —
Light retractable system does not operate	1. RTR Fuse 2. Light Retractor Relay 3. Light Retractor Motor 4. Light Control Switch 5. Dimmer Switch 6. Wire Harness	BE–3 BE–23 BE–24 BE–20 BE–20 —
Daytime Running Light System does not operate	1. ECU–IG Fuse 2. IGN Fuse 3. RTR Fuse 4. FOG Fuse 5. TAIL Fuse 6. HEAD Fuse 7. Taillight Control Relay 8. Headlight Control Relay 9. Light Retractor Relay 10. Ignition Switch 11. Light Control Switch 12. Dimmer– Switch 13. Wire Harness	BE–3 BE–3 BE–3 BE–3 BE–3 BE–3 BE–21 BE–21 BE–23 BE–11 BE–20 BE–20 —

HEADLIGHT

ADJUSTMENT OF HEADLIGHT AIMING




A TYPE
Connector
Wire Harness Holder No. 1
Wiper and Washer Switch
Wire Harness Holder No. 2
Headlight Dimmer and
Turn Signal Switch
Cruise Control Switch
Horn Contact
Ball Set Plate
Light Control Switch
Spring
Ball
w/ SRS
Spiral Cable
BE5743


Connector
Wire Harness Holder No. 1
Wiper and Washer Switch
Wire Harness Holder No. 2
Headlight Dimmer Switch
Turn Signal Switch
Horn Contact
Light Control Switch
Spring
Ball
Ball Set Plate
Headlight Dimmer Switch Pin
w/ SRS
Spiral Cable
BE4099

COMBINATION SWITCH DISASSEMBLY

1. REMOVE WIRE HARNESS HOLDER NO. 1

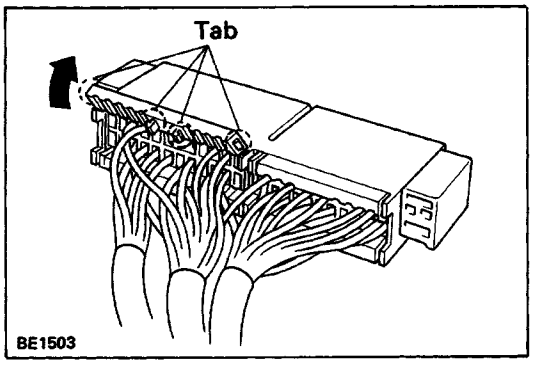
2. REMOVE WIRE HARNESS HOLDER NO. 2

3. (w/ SRS)

REMOVE SPIRAL CABLE SUBASSEMBLY

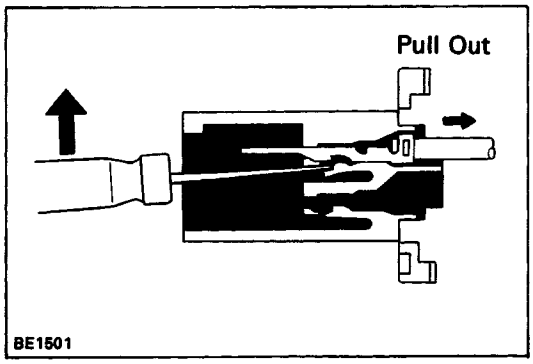
(a) Remove the four screws.

(b) Disconnect the connector and remove the spiral cable subassembly.



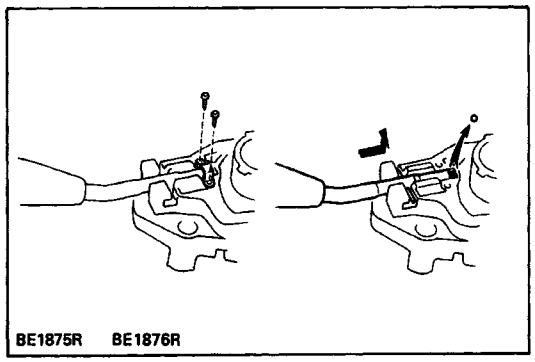
4. REMOVE TERMINALS FROM CONNECTOR

(a) Release four tabs and open the terminal cover.



(b) From the open end, insert a miniature screwdriver between the locking lug and terminal.

(c) Pry down the locking lug with the screwdriver and pull the terminal out from the rear.



5. REMOVE LIGHT CONTROL SWITCH

(a) Remove two screws and the ball set plate from the switch body.

(b) Remove the ball and slide out the switch from the switch body with the spring.

6. REMOVE HEADLIGHT DIMMER AND TURN SIGNAL SWITCH

(A Type)

Remove four screws and the switch from the switch body.

(B Type)

(a) Pry loose two locking lugs and remove the turn signal switch from the switch body.

(b) Remove two screws and the headlight dimmer switch from the switch body.

(c) Remove the headlight dimmer switch pin from the switch body with the spring.

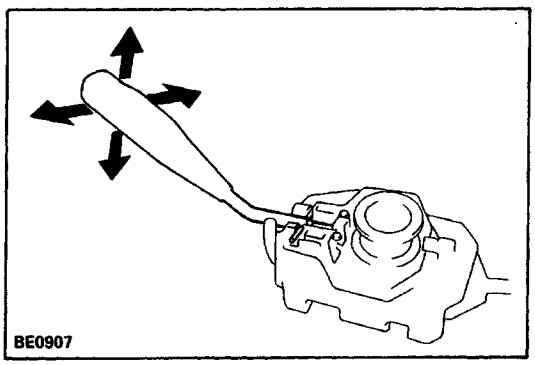
7. REMOVE WIPER AND WASHER SWITCH

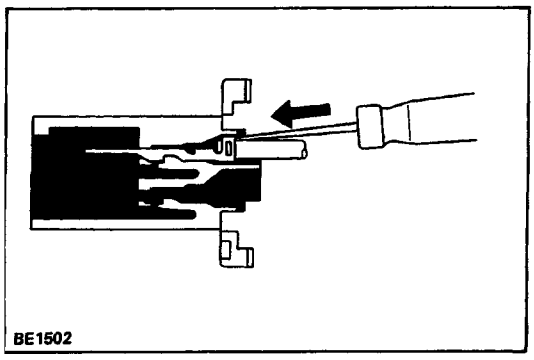
Remove two screws and the switch from the switch body.

8. (A Type)
REMOVE CRUISE CONTROL SWITCH

Remove two screws and the switch from the body.

9. REMOVE HORN CONTACT


BE0907

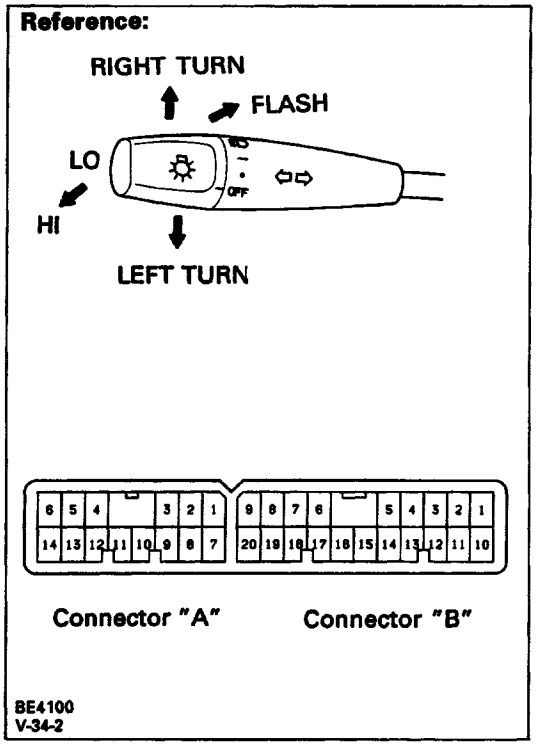

BE1502

COMBINATION SWITCH ASSEMBLY

INSTALL PARTS OF COMBINATION SWITCH IN REVERSE SEQUENCE OF DISASSEMBLY

HINT:

- After installing the light control switch to the switch body, insure that the switch operation is smoothly.
- Push in the terminal until it is securely locked in the connector lug.



COMBINATION SWITCH INSPECTION
LIGHT CONTROL SWITCH/CONTINUITY

Terminal (Color) / Switch position	A–2 (Clear)	A–11 (W)	A–13 (R)	B–20 (G)
OFF				
HOLD (●)		○		○
TAIL (–)	○	○		○
HEAD( )	○	○	○	

DIMMER SWITCH/CONTINUITY

Terminal (Color) / Switch position	A–3 (R–G)	A–9 (W–B)	A–12 (R–Y)	A14 (R–W)
Flash		○	○	○
Low beam	○	○		
High beam		○	○	

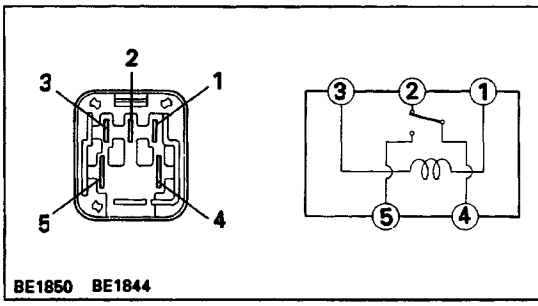
TURN SIGNAL SWITCH/CONTINUITY

Terminal (Color) / Switch position	A1 (G–w)	A–5 (G–B)	A,8 (G–Y)
Left turn	○	○	
Neutral			
Right turn	○		○

If continuity is not as specified, replace the switch.

HEADLIGHT DIMMER RELAY

HEADLIGHT DIMMER RELAY INSPECTION
CONTINUITY



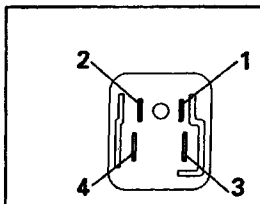
Terminal / Condition	1	2	3	4	5
Constant	○	○	○	○	
Apply battery positive voltage to terminal 1 and 3.				○	○

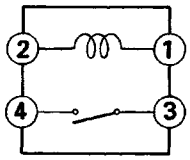
If continuity is not as specified, replace the relay.

HEADLIGHT CONTROL RELAY

HEADLIGHT CONTROL RELAY INSPECTION

CONTINUITY





BE1838 BE1840

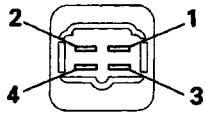
Terminal / Condition	1	2	3	4
Constant	○—∿∿∿—○			
Apply battery positive voltage to terminals 1 and 2.			○——○	

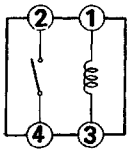
If continuity is not as specified, replace the relay.

TAILLIGHT CONTROL RELAY

TAILLIGHT CONTROL RELAY INSPECTION

CONTINUITY





BE4038 BE1841

Terminal / Condition	1	2	3	4
Constant	○——∿∿∿——○			
Apply battery positive voltage to terminals 1 and 3.		○——○		

If continuity is not as specified, replace the relay.

LIGHT RETRACTABLE SYSTEM

(See page BE–3 for How to Inspect)

1) First, select the applicable item in the TROUBLE column of the then look at the applicable codes in the CHECK ORDER column.
2) Using the inspection chart, inspect the first item shown in the CHECK ORDER column.
3)–1 If the inspection result is good, check the next item. If there are no further codes, advance to step (4).

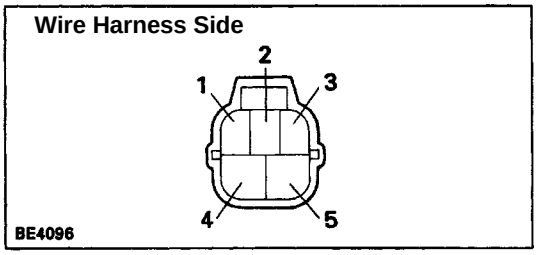
(3)–2 If the inspection result is no good, inspect the item in the POSSIBLE CAUSE column in the inspection chart. After inspecting, check the system operation again. If the result is still no good, inspect the next item.

(4) If all inspection items are good, inspect the applicable item in the POSSIBLE CAUSE column in the trouble chart.

[Trouble Chart]

TROUBLE	CHECK ORDER	POSSIBLE CAUSE
Headlights do not rise with light control switch in HEAD position	A → B → C → D →	Terminal 4 circuit of light retractor motor faulty
Headlights retract when light control switch changed from HEAD to TAIL or HOLD	–	Terminal 3 circuit of light retractor motor faulty
Headlight do not retract with light control switch OFF	A → B → E → D →	Terminal 4 circuit of light retractor motor faulty

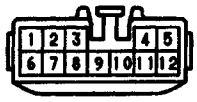
[Inspection Chart]



Disconnect the connector from the retractor motor and inspect the connector on wire harness side.

CODE	CONNECTION	CHECK CONDITION	SPECIFIED VALUE	POSSIBLE CAUSE
A	–	Inspect light retractor motor (See page BE–23)	Good	Light retractor motor faulty
B	5 – Ground	–	Continuity	Terminal 5 circuit faulty
C	1 – Ground	Light control switch turned to HEAD	Continuity	Terminal 1 circuit faulty
D	2 – Ground	–	Battery positive voltage	Terminal 2 circuit faulty
E	3 – Ground	Light control switch changed from HEAD to OFF	Continuity	Terminal 3 circuit faulty

- **Wire Harness Side 12 Pin**



e-12-1

LIGHT RETRACTABLE RELAY INSPECTION

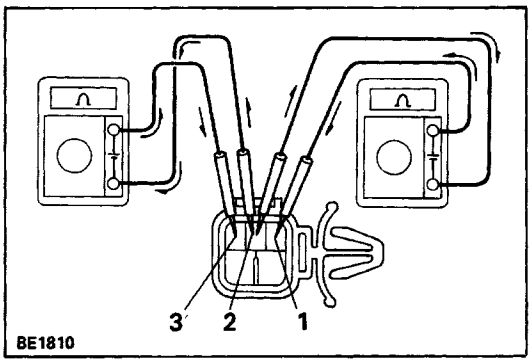
INSPECT LIGHT RETRACTABLE RELAY

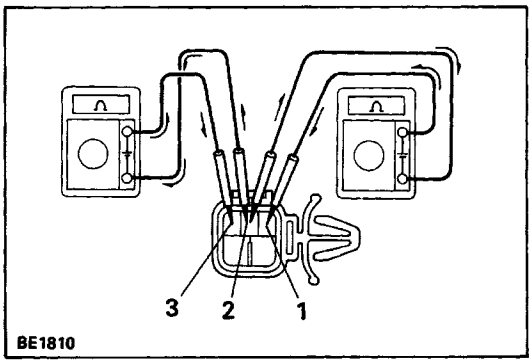
Disconnect the 12 pin connector from the relay and inspect the connector on wire harness side as shown in the chart.

Check for	Tester connection	Condition		Specified value
Continuity	1 – Ground 4 – Ground	Constant		*1 Continuity
	*2 2 – 7 *2 5 – 7	Headlight position	Any position ex. uppermost	Continuity
			Uppermost	No continuity
	*2 2 – 11 *2 5 – 11	Headlight position	Any position ex. lowermost	Continuity
			Lowermost	No continuity
	6 – Ground	Light control switch position	OFF or HEAD	No continuity
			HOLD or TAIL	Continuity
	12 – Ground	Constant		Continuity
Voltage	3 – Ground	Constant		Battery positive voltage
	8 – Ground	Light control switch position: OFF, HOLD or TAIL		
		Headlight dimmer switch position	Low beam or High beam	Battery positive voltage
			Flash	No voltage
		Light control switch position: HEAD		No voltage

*1: There is resistance because this circuit is grounded through the motor.
*2: Connect the test leads so that the current from the ohmmeter can flow according to the above orders.

If circuit is as specified, replace the relay.



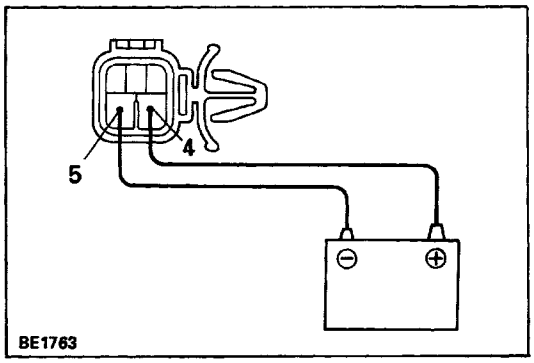


LIGHT RETRACTOR MOTOR INSPECTION

DIODE/CONTINUITY

(a) Set the motor to any position except the uppermost or lowermost position.
(b) Connect the ohmmeter test lead so that the current from the meter can flow from terminal 1 to 2, check that there is no continuity.
(c) Connect the ohmmeter test lead so that the current from the meter can flow from terminal 3 to 2, check that there is no continuity.
(d) Reverse the test leads of ohmmeter, check that there is continuity.

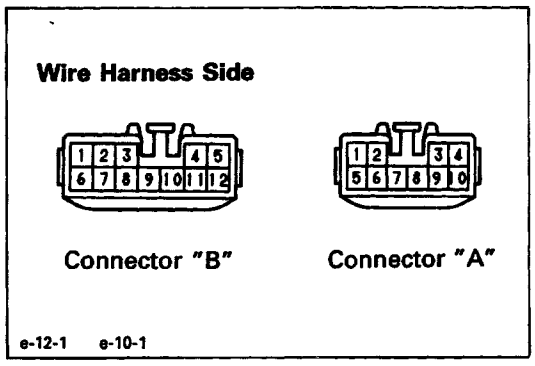
If continuity is not as specified, replace the motor.



OPERATION

Connect the positive (+) lead from the battery to terminal 4 and the negative H lead to terminal 5, check that the motor operates.

If operation is not as specified, replace the motor.



DAYTIME RUNNING LIGHT RELAY

DAYTIME RUNNING LIGHT RELAY INSPECTION

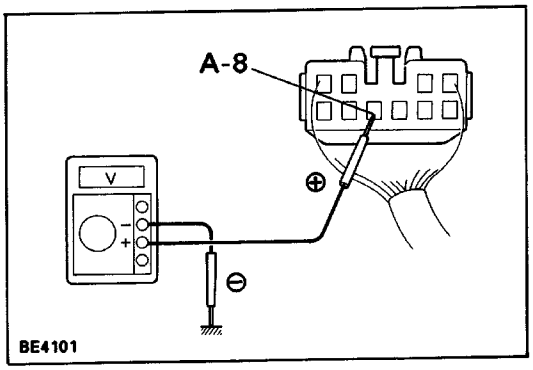
RELAY CIRCUIT

Disconnect the connector from the relay and inspect the connector on the wire harness side as shown in the chart.

Check for	Tester connection	Condition		Specified value
Continuity	A–1 – Ground	Front fog light switch position	OFF	No continuity
			ON	Continuity
	A–3 – Ground	Light control switch position	OFF or HOLD	No continuity
			TAIL or HEAD	Continuity
	A–5 – Ground	Brake level warning switch position	OFF	No continuity
			ON	Continuity
	A–7 – Ground	Parking brake switch position	OFF	No continuity
			ON	Continuity

Check for	Tester connection	Condition		Specified value
Continuity	A–10 – Ground	Constant	TAIL or HEAD	Continuity
	B–6 – Ground	Light control switch position	OFF or HEAD	No continuity
			HOLD or TAIL	Continuity
	B–12 – Ground	Constant		Continuity
Voltage	A–2 – Ground	Constant		Battery positive voltage
	A–4 – Ground	Ignition switch position	LOCK or ACC	No voltage
			ON	Battery positive voltage
	A–6 – Ground	Constant		Battery voltage
	A–9 – Ground	Engine	Stop	No voltage
			Running	Battery positive voltage
	B–3 – Ground	Constant		Battery positive voltage .
	6–8 – Ground	Light control switch position: OFF, HOLD or TAIL		
		Headlight dimmer switch position	Low beam or High beam	Battery positive voltage
			Flash	No voltage
		Light control switch position: HEAD		No voltage

If circuit is as specified, inspect relay operation.



RELAY OPERATION

(a) Connect the positive (+) lead from the voltmeter to terminal A–8 and negative (–) lead to the ground.

(b) Check that there is battery positive voltage with light control switch is turned on.

If operation is not as specified, replace the relay.