

COMBINATION SWITCH REMOVAL

BE0NB-02

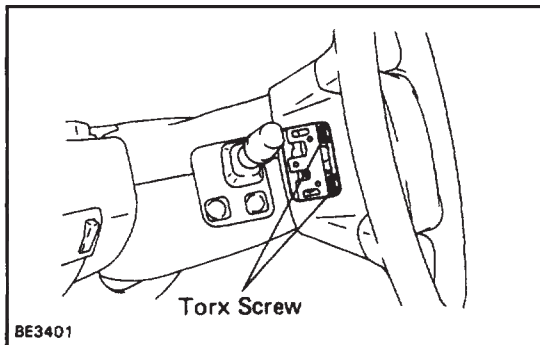
1. REMOVAL FOLLOWING PARTS:

(See page BO-158)

- Under Cover
- Lower Pad
- Key Cilinder Pad
- No. 3 Finish Panel Mounting Bracket
- No. 2 Heater to Resister Duct

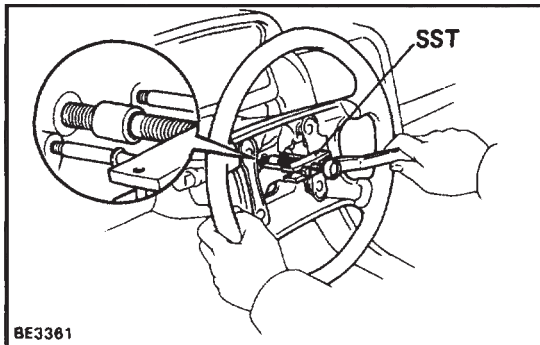
NOTICE:

- Turn the steering wheel and front wheels to the straight ahead position.
- Turn the ignition switch to the OFF position, then remove the battery negative (-) terminal.



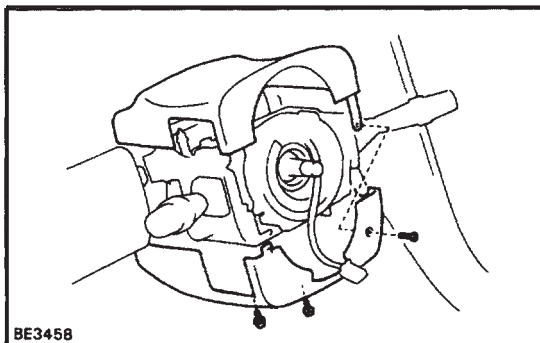
2. REMOVE STEERING WHEEL CENTER PAD

- (a) Remove the 2 covers.
- (b) Using torx driver or wrench, remove the 4 torx screws.
Torx wrench T30 (09042-00010)
Torx driver T30 (09041-00030)
- (c) Remove center pad and disconnect the connector.



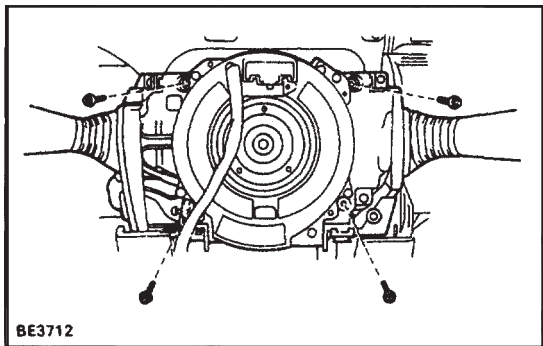
3. REMOVE STEERING WHEEL

- (a) Remove the steering nut.
- (b) Using SST, remove the steering wheel.
SST 09213-31021



4. REMOVE STEERING COLUMN COVER

Remove the 3 screws and steering column covers.



5. REMOVE COMBINATION SWITCH

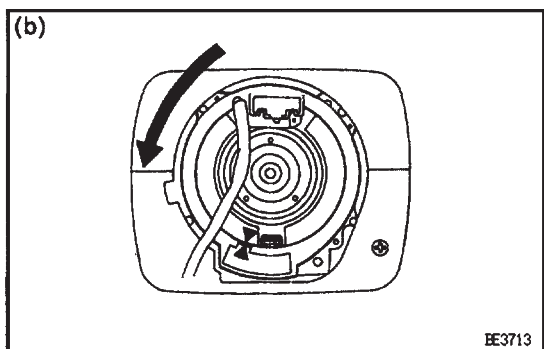
- (a) Remove the 4 screws.
- (b) Disconnect the connectors.

(See page BE-48)

HINT: Since the SRS connector has a 2-stage lock, remove the 1st stage lock, and disconnect the connector.

- (c) Remove the combination switch assembly from steering column.

HINT: Pull the wire harness spool body to forward and remove the harness spool body from steering column.



COMBINATION SWITCH INSTALLATION

For installation, follow the removal procedure in reverse.

(MAIN POINT OF INSTALLATION)

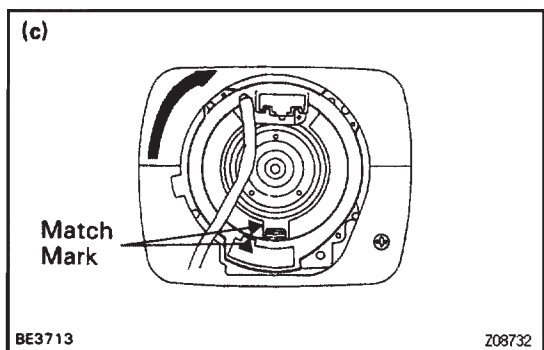
1. ADJUSTMENT OF SPIRAL CABLE

- (a) Check that the front wheels are facing straight ahead.
- (b) Turn the spiral cable counterclockwise by hand until it becomes harder to turn the cable.
- (c) Then rotate the spiral cable clockwise about 3 turns to align the red mark.

HINT:

- The spiral cable will rotate about 3 turns to either left or right of the center.
- The connector should be straight up.

- (d) Install the steering wheel so that the match marks will not be misaligned.



2. INSTALL STEERING SET NUT

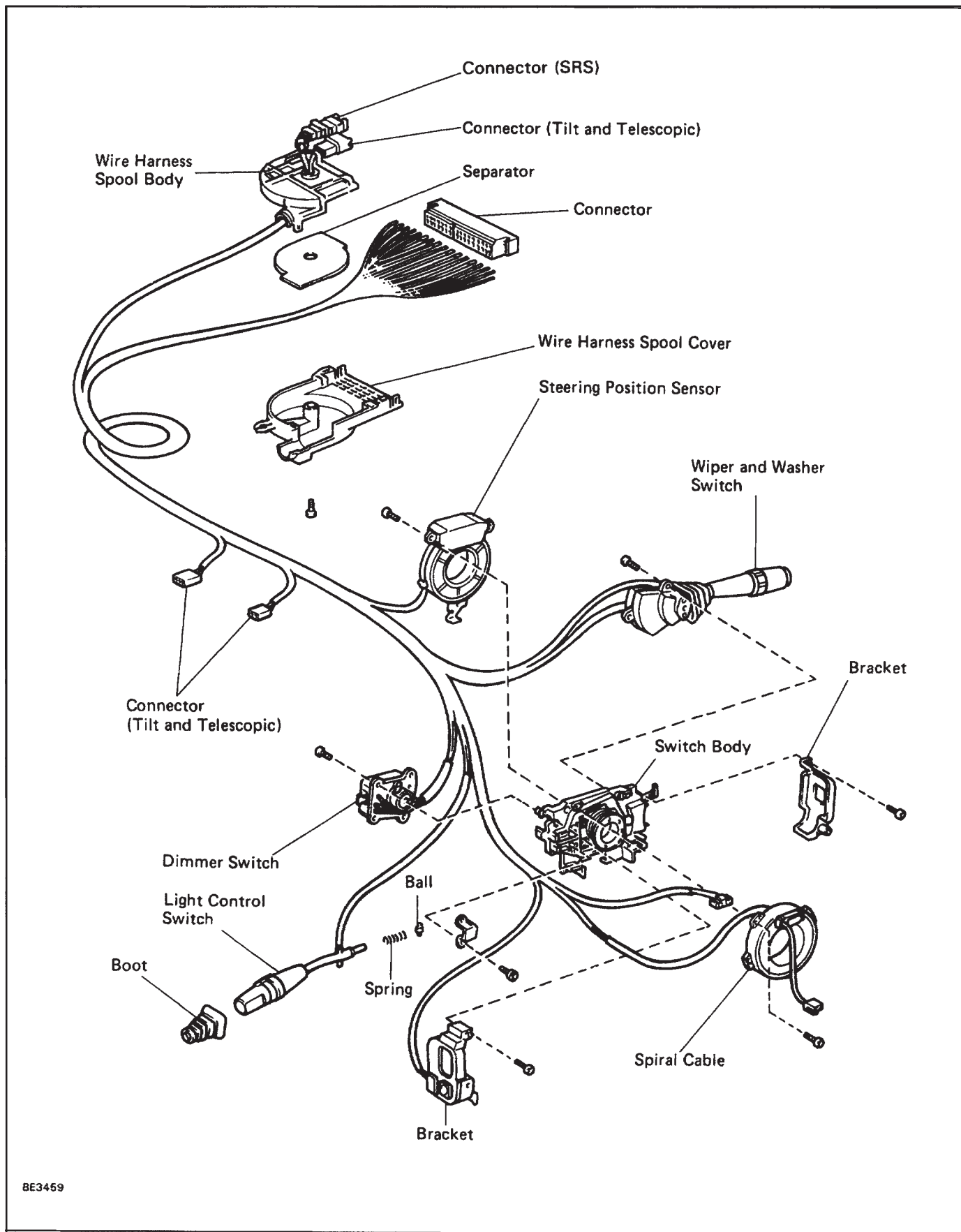
Torque: 35 N·m (360 kgf·cm, 26 ft·lbf)

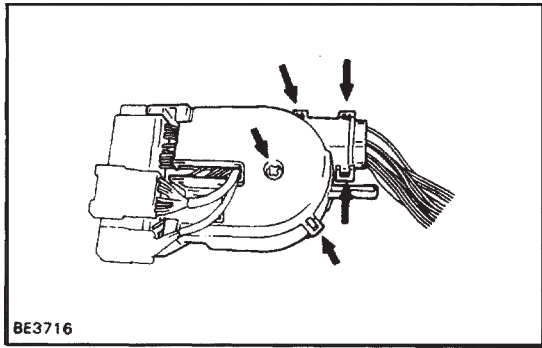
3. INSTALL STEERING WHEEL CENTER PAD

Torque the torx screws.

Torque: 7.1 N·m (75 kgf·cm, 62 in·lbf)

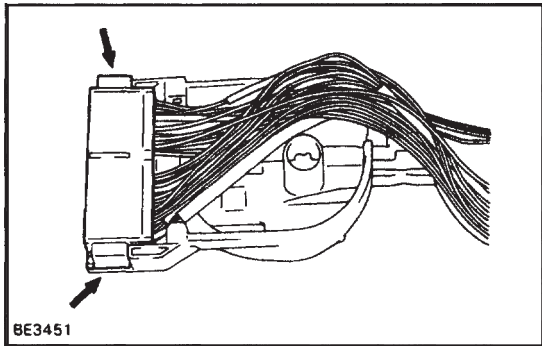
COMBINATION SWITCH DISASSEMBLY COMPONENTS





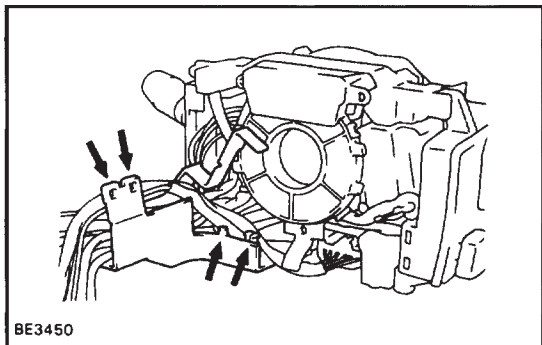
1. REMOVE WIRE HARNESS SPOOL COVER

Pry loose the 5 locking lugs.



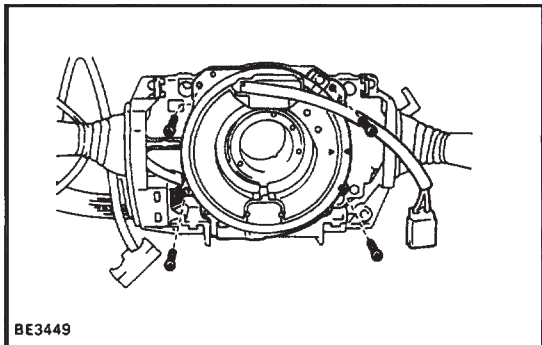
2. REMOVE CONNECTOR FROM SPOOL BODY

- (a) Pry loose the 2 locking lugs and separate the connector from spool body.
- (b) Remove the separator from spool body.



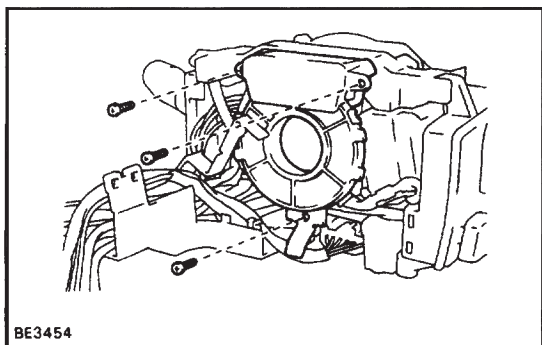
3. SEPARATE WIRE HARNESS HOLDER

- (a) Pry loose the 4 locking lugs.
- (b) Pull out the wire harness.



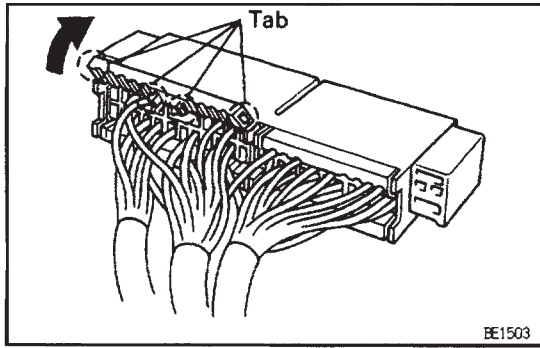
4. REMOVE SPIRAL CABLE SUBASSEMBLY

- (a) Disconnect the connector (Yellow).
- (b) Remove the 4 screws and spiral cable sub-assembly.



5. REMOVE STEERING POSITION SENSOR

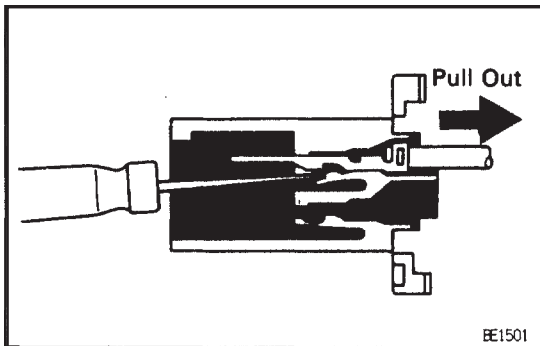
Remove the 3 screws and steering position sensor.



6. REMOVE TERMINALS FROM CONNECTOR

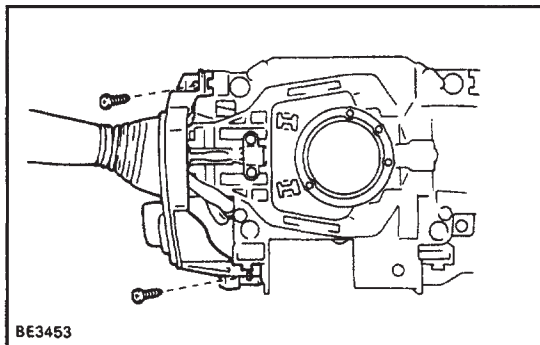
- (a) Release the tabs and open the terminal cover.

CAUTION: Do not remove terminal for SRS connector (Yellow).



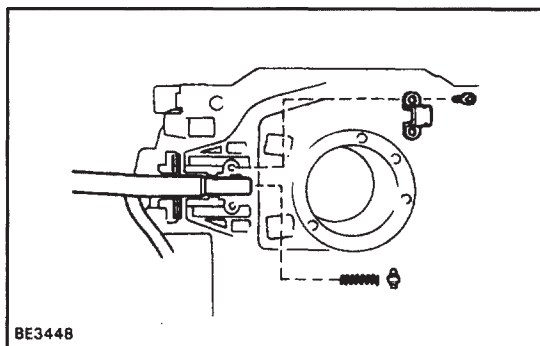
- (b) From the open end, insert a small screwdriver between the locking lug and terminal.

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



7. REMOVE LIGHT CONTROL SWITCH AND FOG LIGHT SWITCH

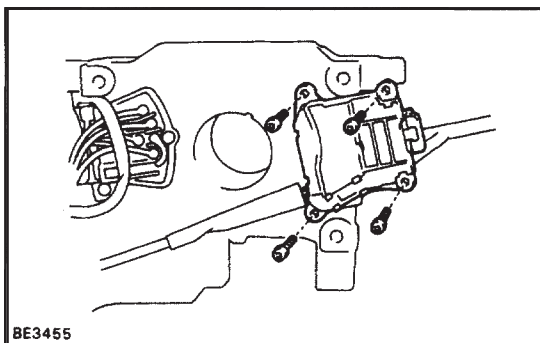
- (a) Remove the 2 screws, and separate the bracket from the switch body.



- (b) Remove the screws and the ball set plate from the switch body.

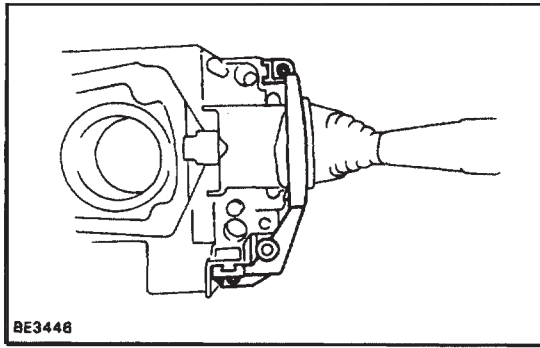
- (c) Remove the ball and slide out the switch from the switch body with the spring.

- (d) Remove the boot.

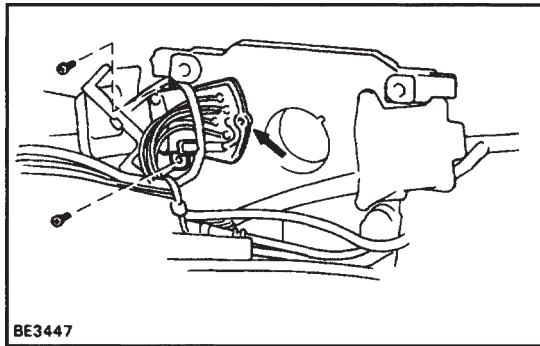


8. REMOVE HEADLIGHT DIMMER SWITCH AND TURN SIGNAL SWITCH

Remove the 3 screws and the switch from the switch body.

**9. REMOVE WIPER AND WASHER SWITCH**

- (a) Remove the 2 screws and separate the bracket from the switch body.

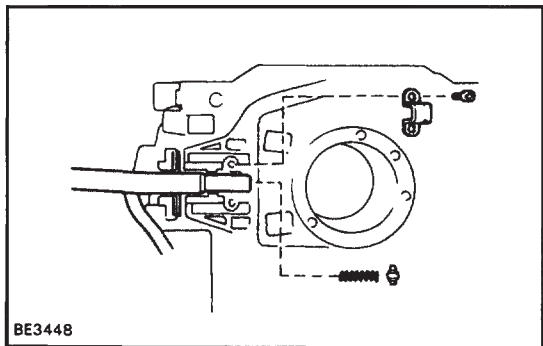


- (b) Remove the 3 screws and the switch from the switch body.
(c) Remove the boot.

COMBINATION SWITCH ASSEMBLY

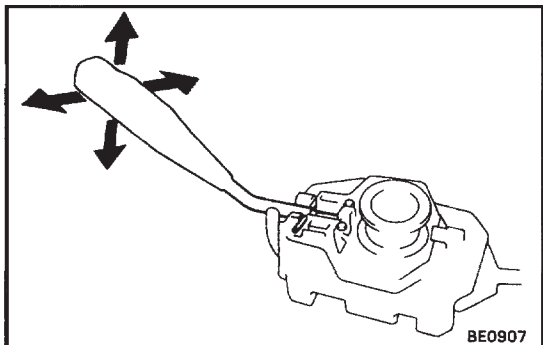
INSTALL PARTS OF COMBINATION SWITCH IN REVERSE SEQUENCE OF DISASSEMBLY

(MAIN POINT OF INSTALLATION)

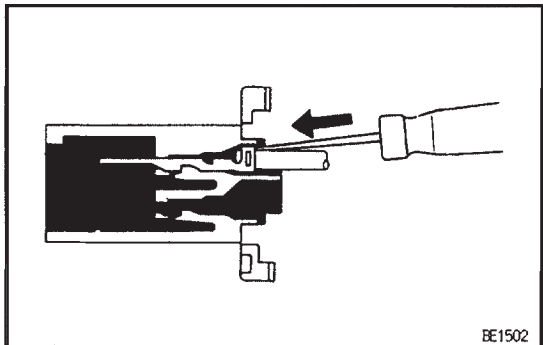


1. INSTALL LIGHT CONTROL SWITCH

- (a) Slide the switch and install the switch body.
- (b) Set the lever in the HI position, and install the ball and plate.



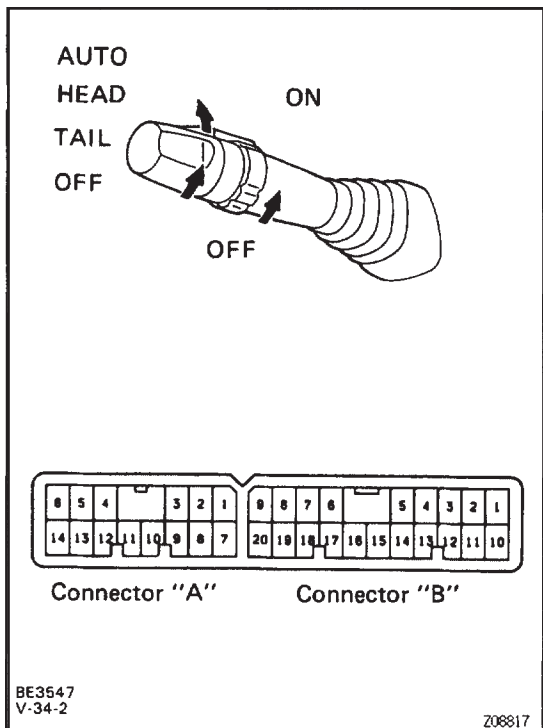
- (c) After installing the light control switch to the switch body, insure that the switch operation is smooth.



2. INSTALL TERMINALS TO CONNECTOR

- Push in the terminal until it is securely locked in the connector lug.
- Install each switch terminal, as shown in the illustration.

Light Control Switch, Fog Light Switch, Turn Signal Switch	Dimmer Switch	Wiper and Washer Switch
<p>B GB W GW</p> <p>G R W GY B</p>	<p>6 5 4 3 2 1</p> <p>RG RW RY WB</p>	<p>L LB Y LR</p> <p>LW B Y LO YB</p>
V-34-2 SH-12-2 V-34-2		Z08816



COMBINATION SWITCH INSPECTION

1. INSPECT LIGHT CONTROL SWITCH

(Continuity)

Inspect the switch continuity between terminals.

Terminal	A2	A11	A13	A14
Switch position				
OFF				
TAIL	○—○			
HEAD	○—○—○			
AUTO		○—○—○		

If continuity is not as specified, replace the switch.

2. INSPECT FOG LIGHT SWITCH

(Continuity)

Inspect the switch continuity between terminals.

Terminal	A6	A7
Switch position		
OFF		
ON	○—○	

If continuity is not as specified, replace the switch.

3. INSPECT DIMMER SWITCH

(Continuity)

Inspect the switch continuity between terminals.

Terminal	C9	C10	C11	C12
Switch position				
Flash	○—○—○			
Low beam	○—○—○—○			
High beam	○—○			

If continuity is not as specified, replace the switch.

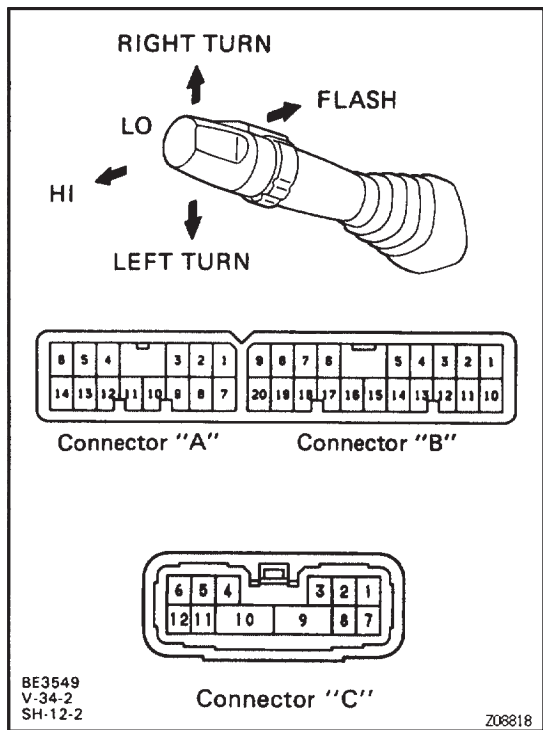
4. INSPECT TURN SIGNAL SWITCH

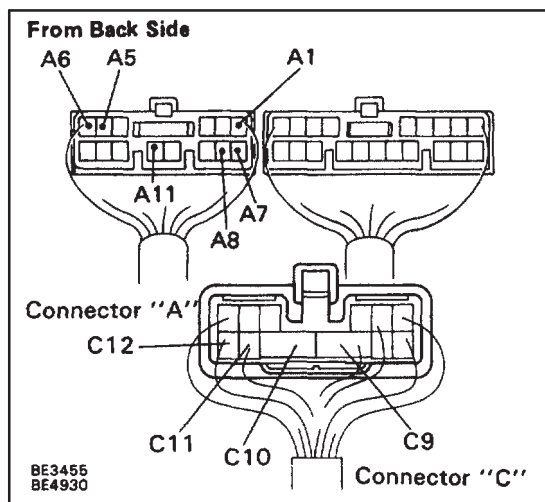
(Continuity)

Inspect the switch continuity between terminals.

Terminal	A1	A5	A8
Switch position			
Left turn	○—○		
Neutral			
Right turn	○—○—○		

If continuity is not as specified, replace the switch.



**5-1. (USA)****INSPECT COMBINATION SWITCH CIRCUIT**

- (a) Pull the spool body to forward and separate spool body from steering column.
- (b) Connect the wire harness side connector to the combination switch and inspect wire harness side connector from the back side as shown.

(Light Control Switch Circuit)

Check for	Tester connection	Condition	Specified value
Continuity	A11-Ground	Constant	Continuity

(Fog Light Switch Circuit)

Check for	Tester connection	Condition	Specified value	
Voltage	A6-Ground	Light control switch HEAD and dimmer switch position	LO	Battery positive voltage
			HI or Flash	No voltage
Continuity	A7-Ground	Constant	Continuity	

(Dimmer Switch Circuit)

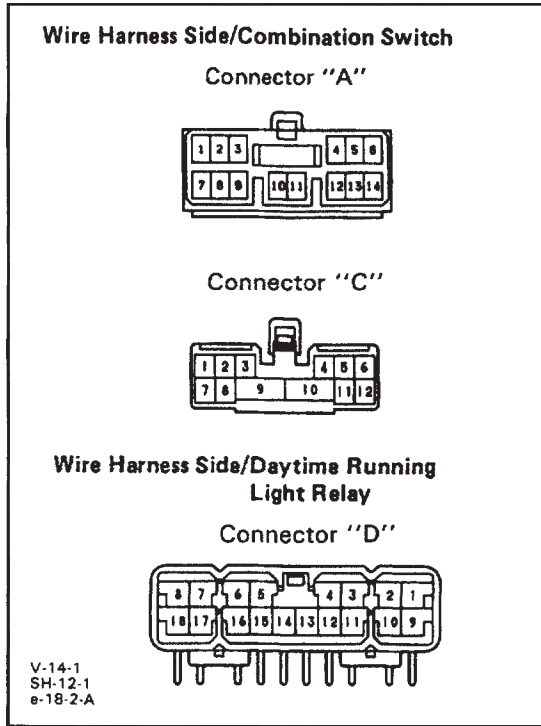
Check for	Tester connection	Condition	Specified value	
Voltage	C11-Ground C10-Ground C12-Ground	Light control switch position	OFF or TAIL	No voltage
			HEAD or AUTO	Battery positive voltage
Continuity	C9-Ground	Constant	Battery positive voltage	

(Turn Signal Switch Circuit)

Check for	Tester connection	Condition	Specified value		
Voltage	A1-Ground	Hazard warning switch ON		Battery positive voltage ↔ OV	
			Ignition switch ON and turn signal switch position	Left or Right	Battery positive voltage ↔ OV
				Neutral	No voltage
Continuity	A5-Ground	Constant	*Continuity		
	A8-Ground	Constant	*Continuity		

* There is resistance because this circuit is grounded through the bulb.

If the circuit is not as specified, refer to BE-34, 35 wiring diagram and inspect the circuits connected to other parts.



5-2. (CANADA)

INSPECT COMBINATION SWITCH CIRCUIT

- (a) Pull the spool body to forward and separate spool body from steering column.
- (b) Disconnect the combination switch and daytime running light relay connectors, and inspect the each connector on the wire harness side as shown.

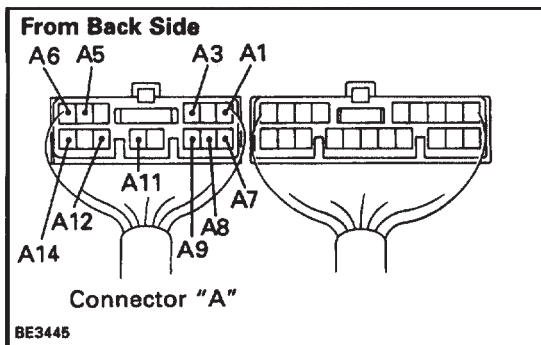
(Light Control Switch Circuit)

Check for	Tester connection	Condition	Specified value
Continuity	A11-Ground	Constant	Continuity

(Dimmer Switch Circuit)

Check for	Tester connection	Condition	Specified value
Continuity	C9-Ground	Constant	Continuity
	C10-D16	Constant	Continuity
	C12-D7	Constant	Continuity

If the circuit is not as specified, refer to BE-34, 35 wiring diagram and inspect the wire harness.



- (c) Connect the wire harness side connector to the combination switch and inspect wire harness side connector from the back side as shown.

(Fog Light Switch Circuit)

Check for	Tester connection	Condition		Specified value
Voltage	A6-Ground	Light control switch position	TAIL or HEAD or AUTO	Battery positive voltage
			OFF	No voltage
Continuity	A7-Ground	Light control switch position	TAIL or HEAD or AUTO	Battery positive voltage
			OFF	No voltage

(Turn Signal Switch Circuit)

Check for	Tester connection	Condition		Specified value
Voltage	A1-Ground	Hazard warning switch ON		Battery positive voltage ↔ OV
		Ignition switch ON and turn signal switch position	Left or Right	Battery positive voltage ↔ OV
			Neutral	No voltage
Continuity	A5-Ground	Constant		*Continuity
	A8-Ground	Constant		*Continuity

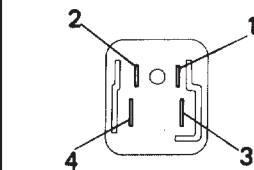
* There is resistance because this circuit is grounded through the bulb.

If the circuits is not as specified, refer to BE-34, 35 wiring diagram and inspect the circuits connected to other parts.

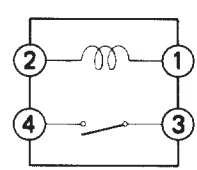
HEADLIGHT CONTROL RELAY



HEADLIGHT CONTROL RELAY INSPECTION CONTINUITY

Inspect relay continuity between terminals.



BE1838 BE1840



Terminal	1	2	3	4
Condition				
Constant				
Apply positive battery voltage to terminals 1 and 2.				

If continuity is not as specified, replace the relay.

RELAY CIRCUIT

See page BE-21