

Parts Inspection (Combination Switch Assembly) REMOVAL OF COMBINATION SWITCH ASSEMBLY

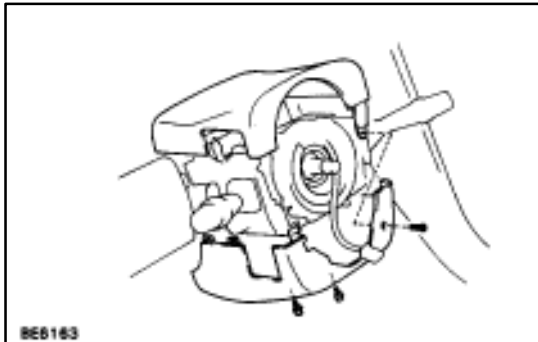
1. REMOVAL FOLLOWING PARTS:

(See page [BO-112](#))

- No. 1 under cover
- No. 1 lower finish Panel

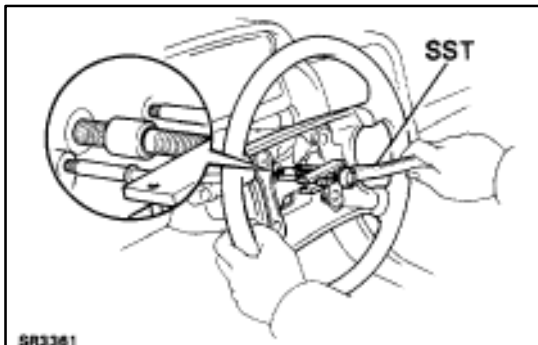
NOTICE:

- 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.



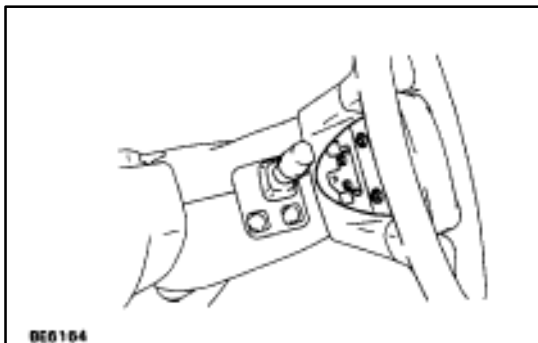
2. REMOVE STEERING WHEEL CENTER PAD

- Remove two covers.
- Using torx driver or wrench, remove the four torx screws.
Torx wrench T30 (09042-00010)
Torx driver T30 (09041-00030)
- Remove center pad and disconnect connector.



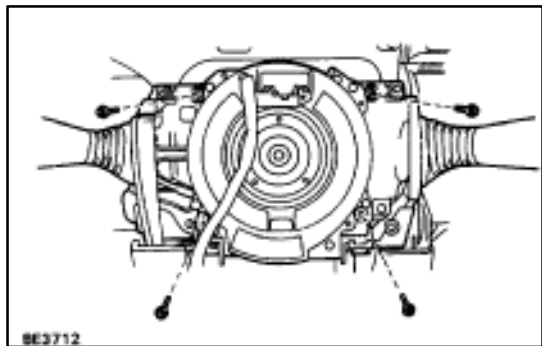
3. REMOVE STEERING WHEEL

- Remove the steering nut.
- Using SST, remove steering wheel.
SST 09213-31021



4. REMOVE STEERING COLUMN COVER

Remove three screws and steering column covers.



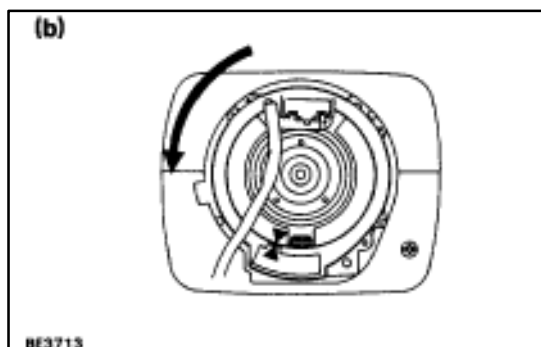
5. REMOVE COMBINATION SWITCH ASSEMBLY

- (a) Remove four screws.
- (b) Disconnect connectors.
(See page [BE-41](#))

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

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

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



INSPECTION OF COMBINATION SWITCH

For installation, follow the removal procedure in reverse.

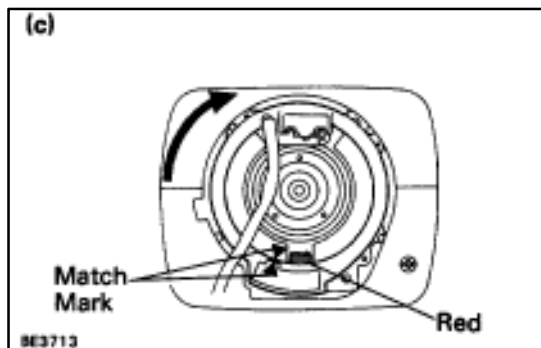
(MAIN POINT OF INSTALLATION)

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

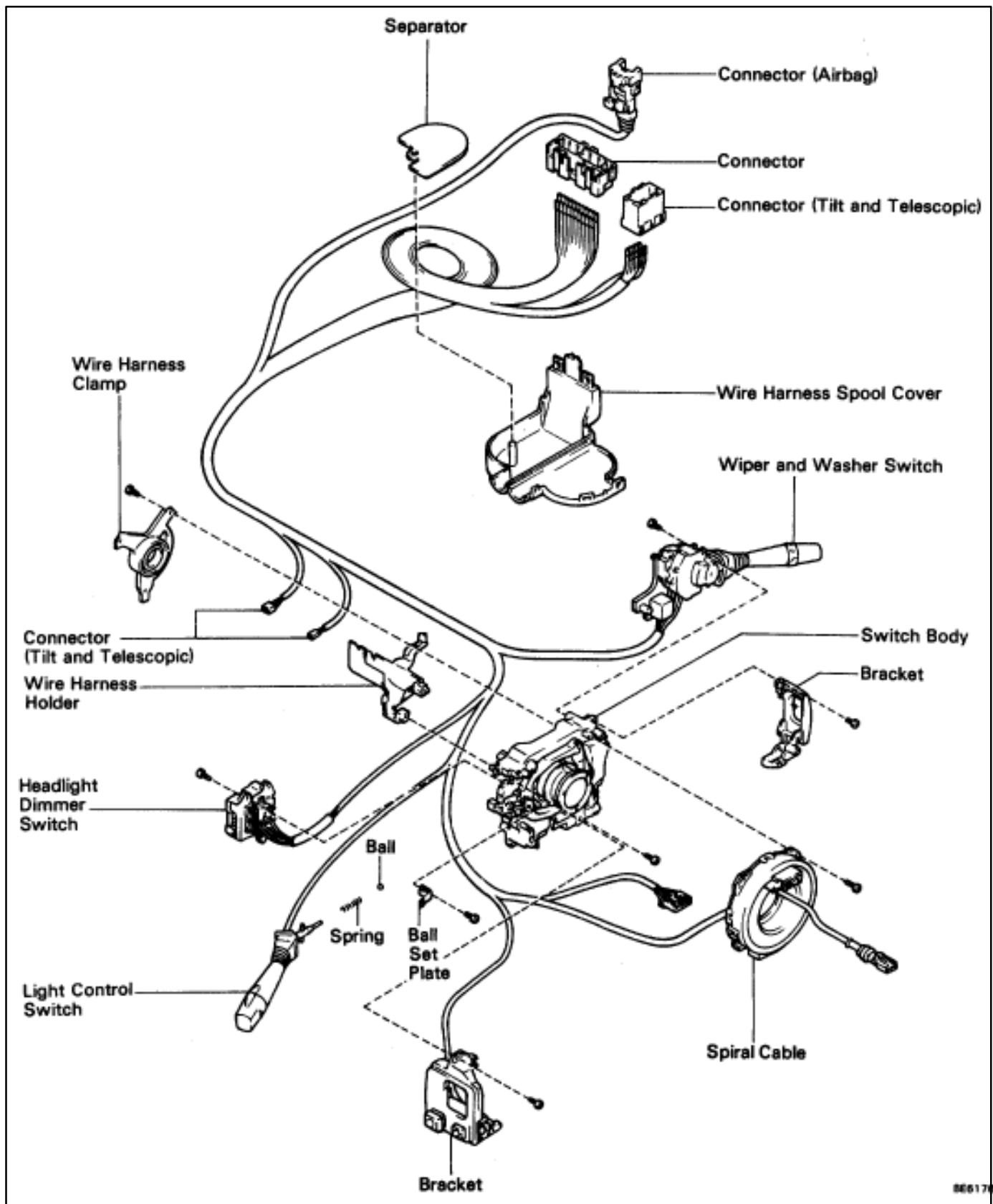
Torque: 35 N·m (360 kgf·cm, 26 ft·lbf)

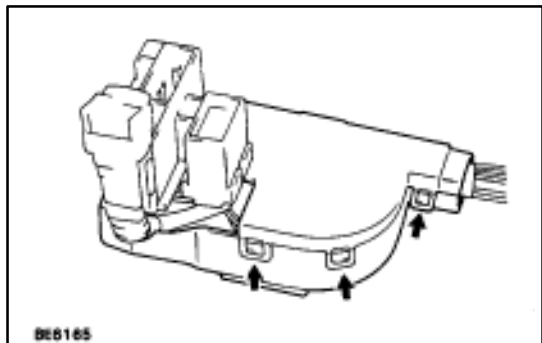
3. INSTALL STEERING WHEEL CENTER PAD

Torque the torx screws.

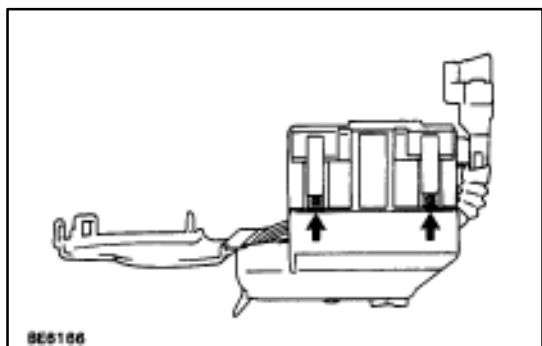
Torque: 7.1 N·m (75 kgf·cm, 62 in·lbf)

DISASSEMBLY OF COMBINATION SWITCH ASSEMBLY (Components)

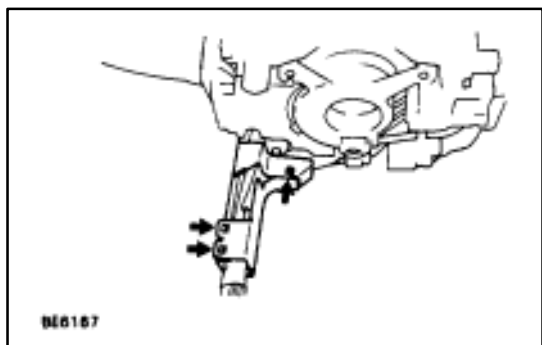


**1. REMOVE WIRE HARNESS SPOOL COVER**

Pry loose three locking lugs.

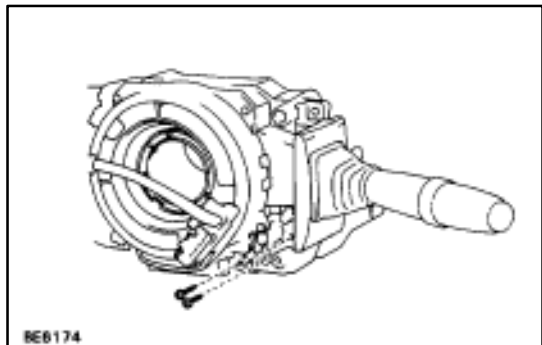
**2. REMOVE CONNECTOR FROM SPOOL BODY**

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

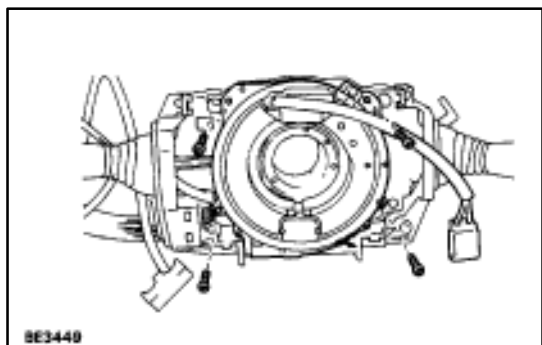
**3. REMOVE WIRE HARNESS HOLDER**

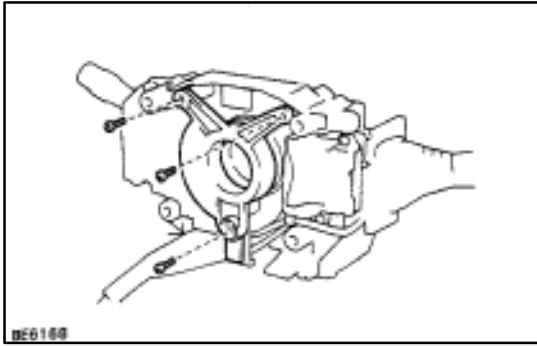
- (a) Pry loose three locking lugs.
- (b) Pull out the wire harness.

- (c) Remove two screws and the wire harness holder.

**4. REMOVE SPIRAL CABLE SUBASSEMBLY**

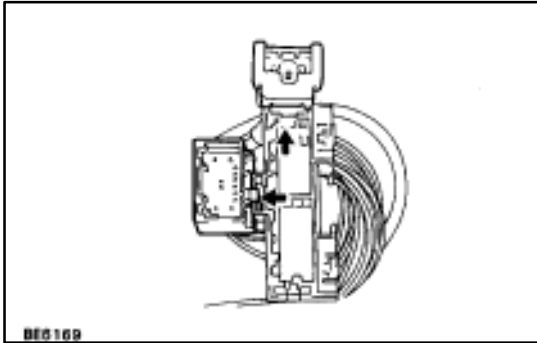
- (a) Disconnect the connector (White).
- (b) Remove the four screws and spiral cable subassembly.





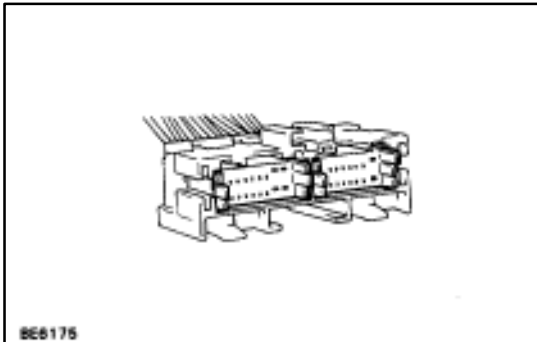
5. REMOVE WIRE HARNESS CLAMP

Remove three screws and wire harness clamp.



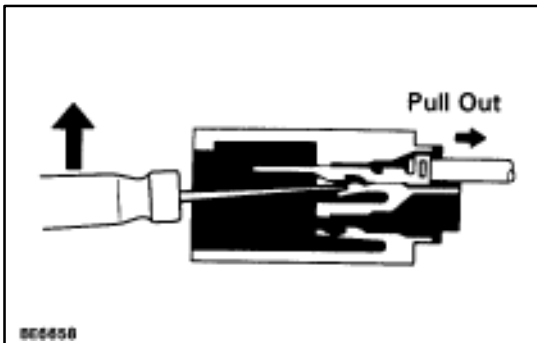
6. SEPARATE CONNECTOR

- (a) Pry loose two locking lugs.
- (b) Separate two connectors from connector assembly.

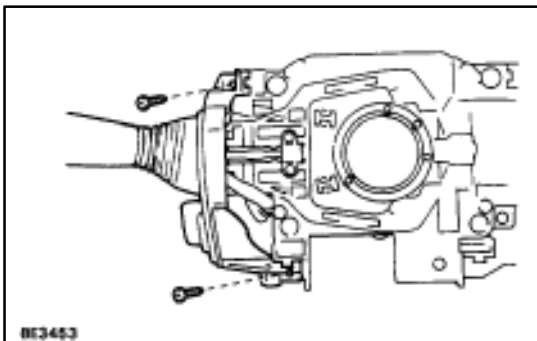


7. REMOVE TERMINALS FROM CONNECTOR (32p connector)

- (a) Pull out two inner terminal covers.
- CAUTION: Do not remove terminal for AIRBAG connector (Yellow).

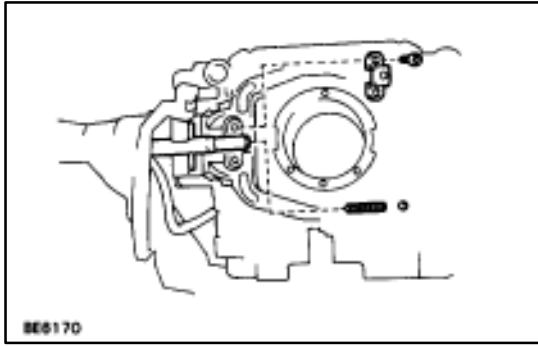


- (b) From the open end, insert a miniature screwdriver between the locking lug and terminal.
- (c) Pry down the locking lug with the screwdriver and pull the terminal out from the rear.

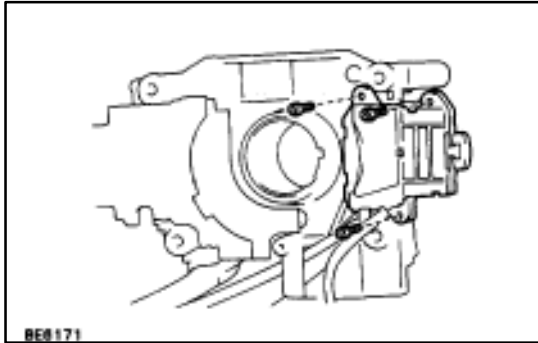


8. REMOVE LIGHT CONTROL SWITCH

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

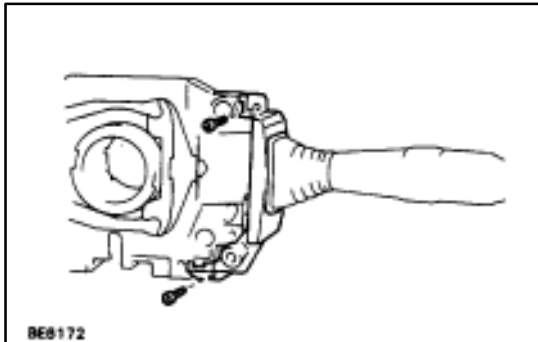


- (c) Remove two screws and the ball set plate from the switch body.
- (b) Remove the ball and slide out the switch from the switch body with the spring.
- (d) Remove the boot.



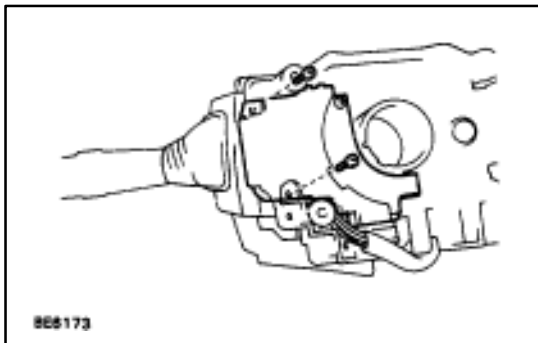
9. REMOVE HEADLIGHT DIMMER SWITCH AND TURN SIGNAL SWITCH

Remove three screws and the switch from the switch body.



10. REMOVE WIPER AND WASHER SWITCH

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



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

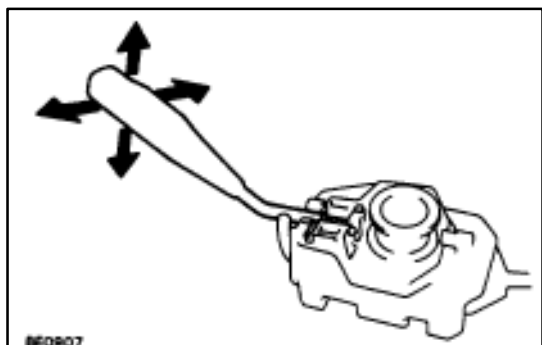
ASSEMBLY OF COMBINATION SWITCH

INSTALL PARTS OF COMBINATION SWITCH IN REVERSE SEQUENCE OF DISASSEMBLY

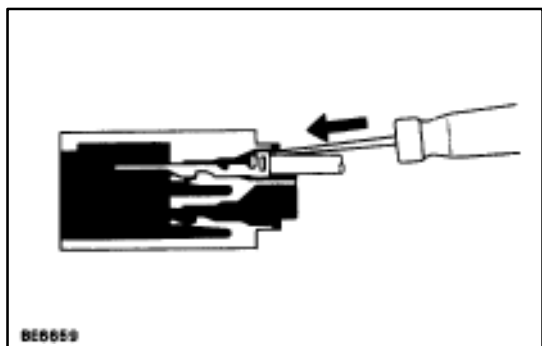
(MAIN POINT OF INSTALLATION)

1. INSTALL LIGHT CONTROL SWITCH

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

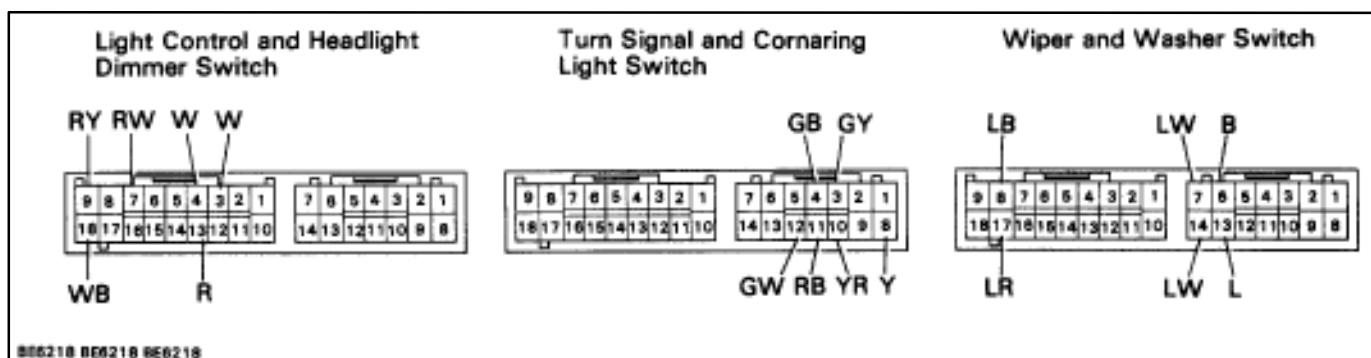


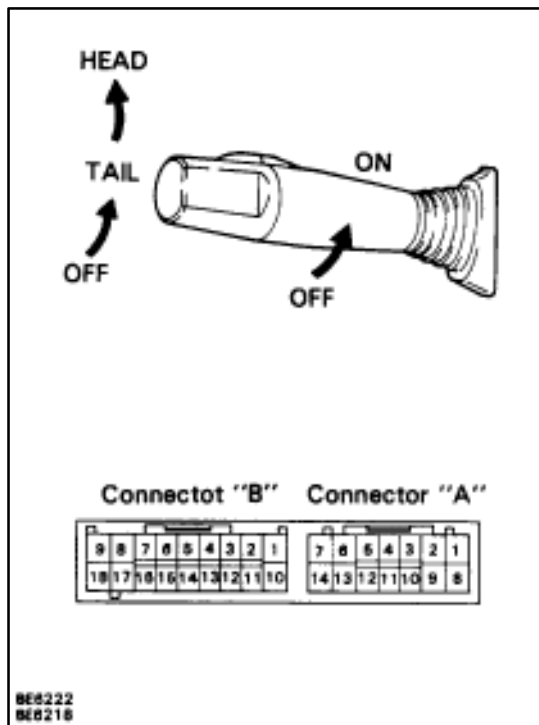
- After installing the light control switch to the switch body, insure that the switch operation is smooth.



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 figure.





INSPECTION OF COMBINATION SWITCH

1. INSPECT LIGHT CONTROL SWITCH

(Continuity)

Inspect the switch continuity between terminals.

Terminal	B3	B4	B13
Switch position			
OFF			
TAIL	○	○	
HEAD	○	○	○

If continuity is not as specified, replace the switch.

2. INSPECT DIMMER SWITCH

(Continuity)

Inspect the switch continuity between terminals.

Terminal	B7	B9	B18
Switch position			
Flash	○	○	○
Low beam			
High beam		○	○

If continuity is not as specified, replace the switch.

3. INSPECT TURN SIGNAL SWITCH

(Continuity)

Inspect the switch continuity between terminals.

Terminal	A3	A4	A12
Switch position			
Left turn		○	○
Neutral			
Right turn	○		○

If continuity is not as specified, replace the switch.

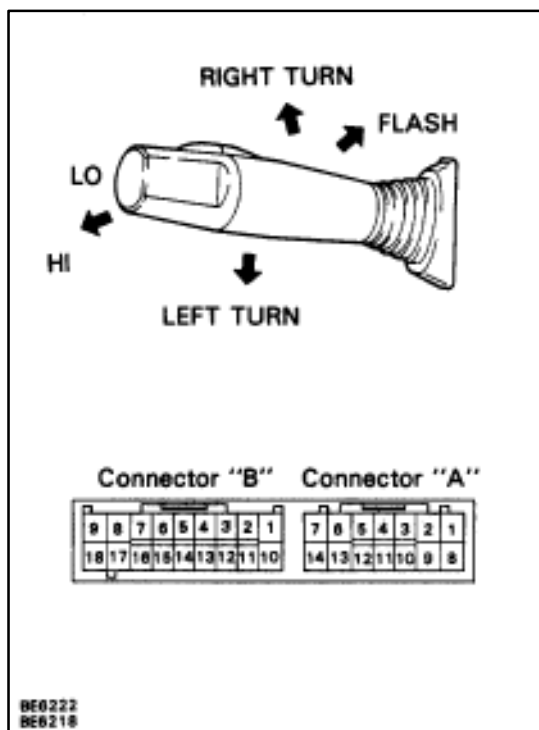
4. INSPECT CORNARING LIGHT SWITCH

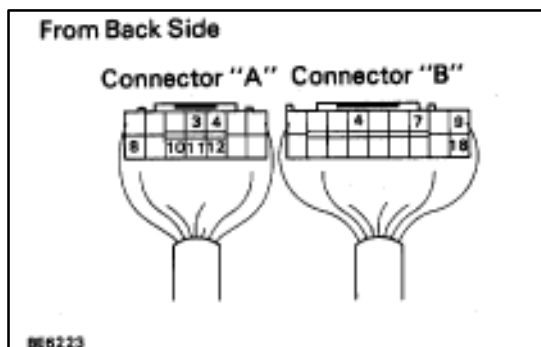
(Continuity)

Inspect the switch continuity between terminals.

Terminal	A8	A10	A11
Switch position			
Left side	○	○	
Neutral			
Right Side	○		○

If continuity is not as specified, replace the switch.





5. USA

INSPECT COMBINATION SWITCH CIRCUIT

- Pull the spool body to forward and separate spool body from steering column.
- 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	B4–Ground	Constant	Continuity

(Dimmer Switch Circuit)

Check for	Tester connection	Condition	Specified value
Voltage	*1 B7–Ground	Light Control Switch Position	OFF or TAIL
			HEAD
	*1 B9–Ground	Dimmer Switch Position	Low beam
			Flash or High beam
Continuity	B18–Ground	Constant	Continuity

*1: USA

(Turn Signal Switch Circuit)

Check for	Tester connection	Condition	Specified value
Voltage	A3–Ground	Voltage	Battery voltage ↔ 0 V
		Ignition Switch ON and turn signal switch position	Right Battery voltage ↔ 0 V
	A4–Ground	Voltage	Battery voltage ↔ 0 V
		Ignition Switch ON and turn signal switch position	Left Battery voltage ↔ 0 V
Continuity	A12–Ground	Constant	Continuity

(Cornering Light Control Switch Circuit)

Check for	Tester connection	Condition	Specified value
Voltage	A8–Ground	Light control switch HEAD and dimmer switch position	LO
			HI or FLASH
Continuity	A10–Ground	Constant	*2 Continuity
	A11–Ground	Constant	*2 Continuity

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

If the circuit is not as specified, refer to [BE-34](#) wiring diagram and inspect the circuits connected to other parts.

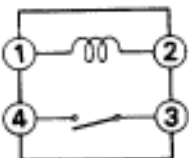
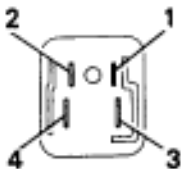
(Headlight Control Relay)

INSPECTION OF HEADLIGHT CONTROL RELAY

INSPECT HEADLIGHT CONTROL RELAY

(Continuity)

Inspect relay continuity between terminals.



Terminal Condition	1	2	3	4
Constant	○ — 5000 — ○			
Apply battery voltage to terminals 1 and 2.			○ — — ○	

BE1838 BE1840

If continuity is not as specified, replace the relay.

(Relay Circuit)

(See page [BE-21](#))

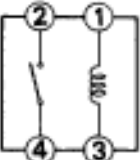
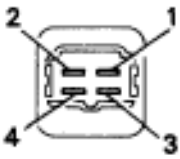

(Headlight Dimmer Relay)

INSPECTION OF HEADLIGHT DIMMER RELAY

INSPECT HEADLIGHT DIMMER RELAY

(Continuity)

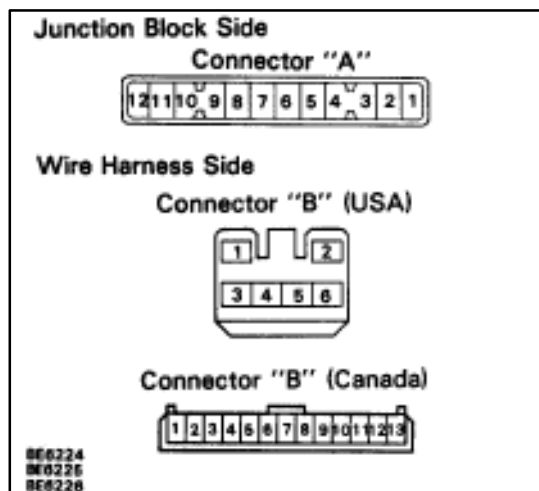
Inspect relay continuity between terminals.



Terminal Condition	1	2	3	4
Constant	○ — 5000 — ○			
Apply battery voltage to terminals 1 and 3.		○ — — ○		

BE1647 BE1675 BE1641

If continuity is not as specified, replace the relay.



(Integration Relay)

REMOVAL AND INSTALLATION OF INTEGRATION RELAY

(See page [BE-16](#))

INSPECTION OF INTEGRATION RELAY

INSPECT INTEGRATION RELAY

(Relay Circuit/Light Auto Turn Off System)

Remove the relay from junction block and inspect the connectors on the wire harness and junction block side as shown in the chart.

(USA)

Check for	Tester connection	Condition		Specified value
Continuity	A4–Ground	Passenger's Courtesy	OFF	No continuity
			ON	Continuity
	A5–Ground	Ignition Key	Pull off	No continuity
			Put in	Continuity
	A6–Ground	Driver's Courtesy	OFF	No continuity
			ON	Continuity
	A8–Ground	Seat Belt	Unfasten	Continuity
			Fasten	No continuity
	A10–Ground	Constant		Continuity
	B1–Ground	Passenger's Door	Unlock	Continuity
			Lock	No continuity
	B2–Ground	Driver's Door	Unlock	Continuity
			Lock	No continuity
Voltage	B3–Ground	Light Control Switch	OFF	No continuity
			TAIL or HEAD	Continuity
	B6–Ground	Light Control Switch	TAIL or OFF	No continuity
			HEAD	Continuity
	A–1–Ground	Constant		Voltage
	A–2–Ground	Constant		*Voltage
	A7–Ground	Ignition Switch	ON	Voltage
			LOCK or ACC	No voltage
	A9–Ground	Ignition Switch	ON	Battery voltage
			LOCK or ACC	No voltage
	A11–Ground	Ignition Switch	ON or ACC	Voltage
			LOCK	No voltage

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

(Canada)

Check for	Tester connection	Condition		Specified value
Continuity	A4–Ground	Passenger's Courtesy	OFF	No continuity
			ON	Continuity
	A5–Ground	Ignition Key	Pull off	No continuity
			Put in	Continuity
	A6–Ground	Driver's Courtesy	OFF	No continuity
			ON	Continuity
	A8–Ground	Seat Belt	Unfasten	Continuity
			Fasten	No continuity
	A10–Ground	Constant		Continuity
	A12–Ground	Constant		Continuity
	B1–Ground	Passenger's Door	Unlock	Continuity
			Lock	No continuity
	B2–Ground	Parking Brake Switch Position	OFF (Switch pin pushed in)	No continuity
			ON (Switch pin released)	Continuity
	B3–Ground	Driver's Door	Unlock	Continuity
			Lock	No continuity
	B7–Ground	Headlight Dimmer Switch Position	Low Beam or High Beam	No continuity
			Flash	Continuity
	B8–Ground	Headlight Dimmer Switch Position	Low Beam	No continuity
			High Beam or Flash	Continuity
Voltage	B10–Ground	Light Control Switch	OFF	No continuity
			HEAD or TAIL	Continuity
	B12–Ground	Constant		Continuity
	B13–Ground	Light Control Switch	OFF or TAIL	No continuity
			HEAD	Continuity
	A1–Ground	Constant		Voltage
	A2–Ground	Constant		*Voltage
	A7–Ground	Ignition Switch	ON	Voltage
			LOCK or ACC	No voltage
	A9–Ground	Ignition Switch	ON	*Voltage
			LOCK or ACC	No voltage
	A11–Ground	Ignition Switch	ON or ACC	Voltage
			LOCK	No voltage
	B4–Ground	Engine	STOP	No voltage
			Running	Voltage
	B11–Ground	Constant		Voltage

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

If the circuit is as specified, trying replacing the relay with a new one.

If the circuit is not as specified, refer to [BE-35](#) wiring diagram and inspect the circuit connected to other parts.