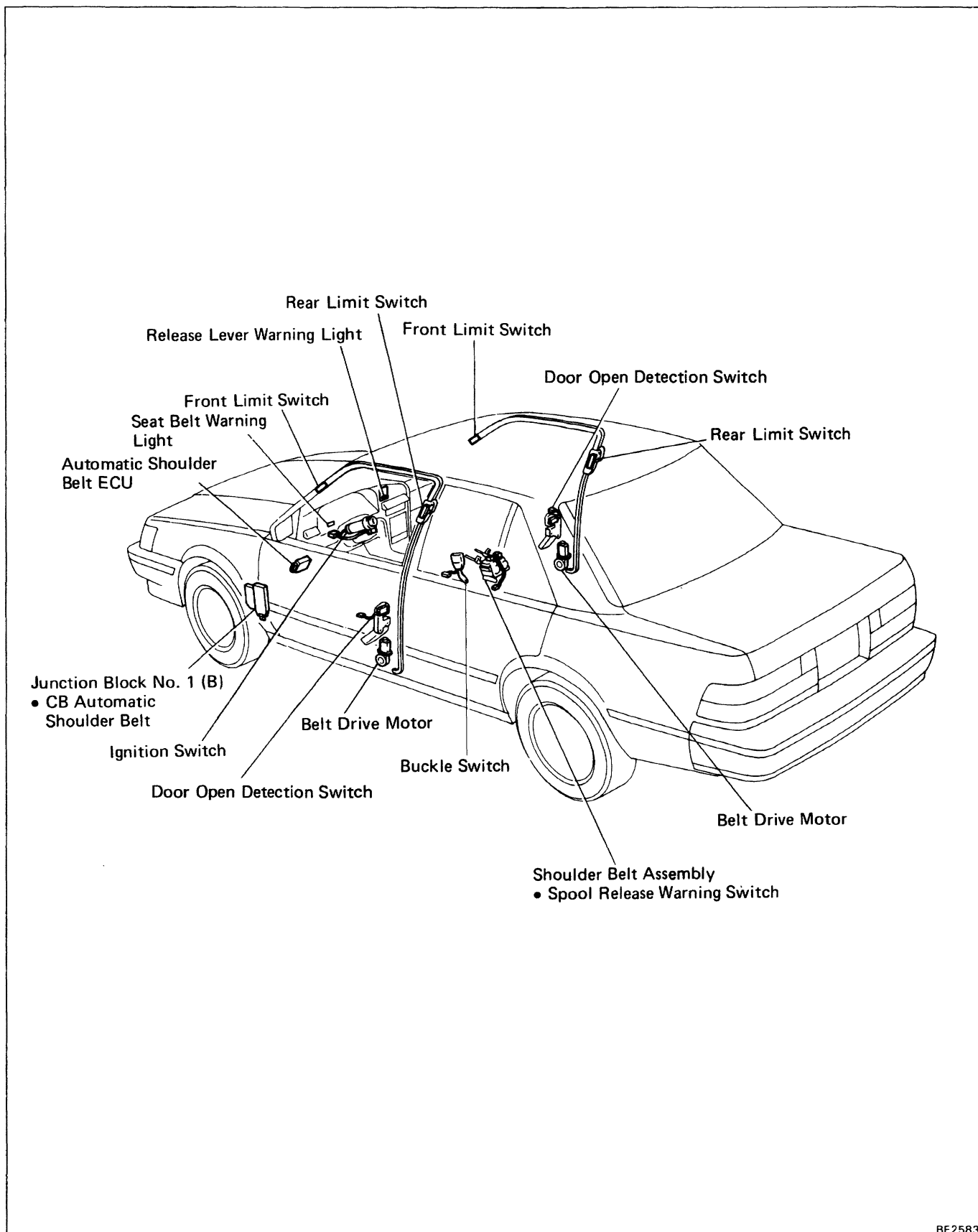
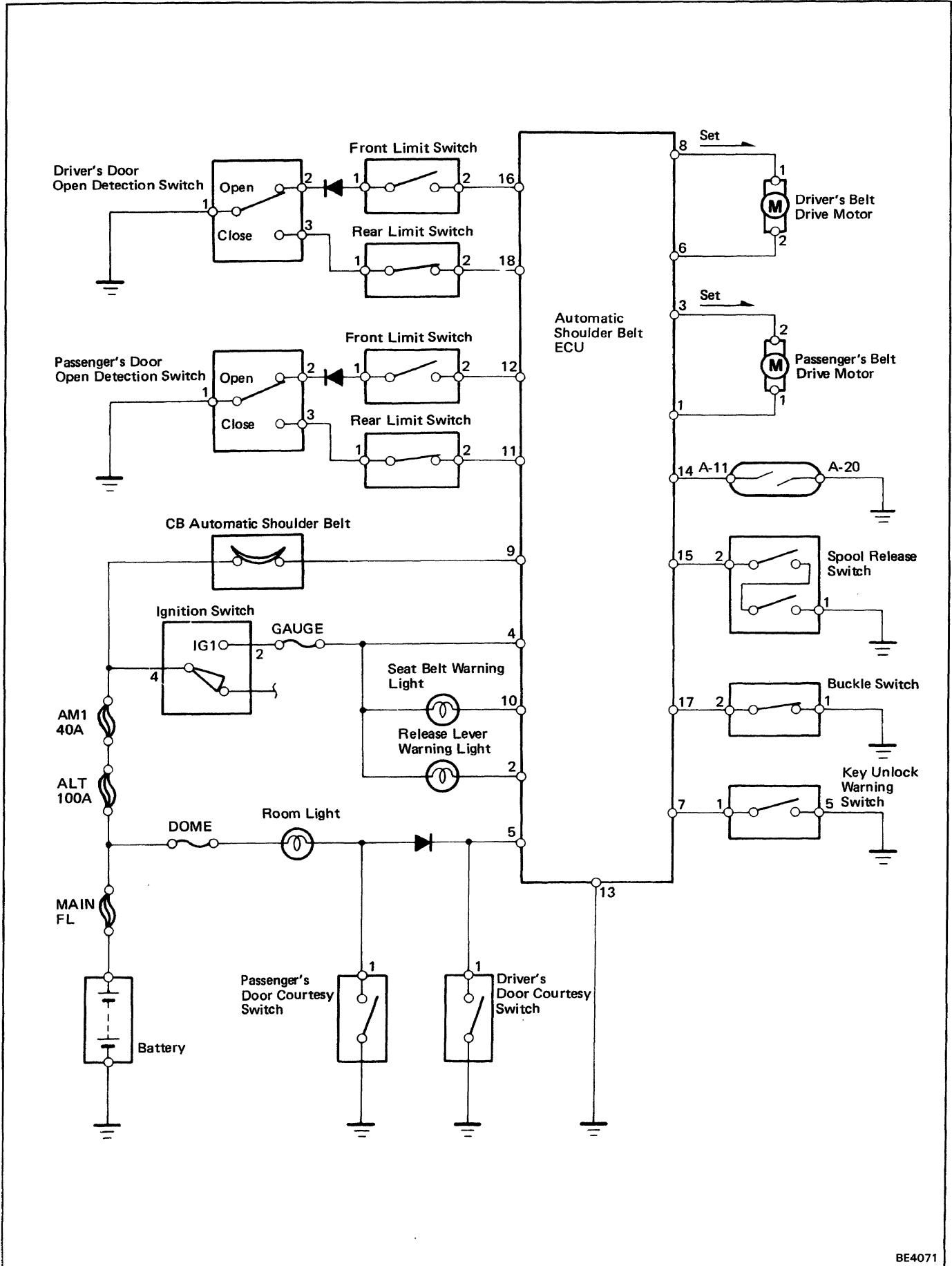


AUTOMATIC SHOULDER BELT SYSTEM

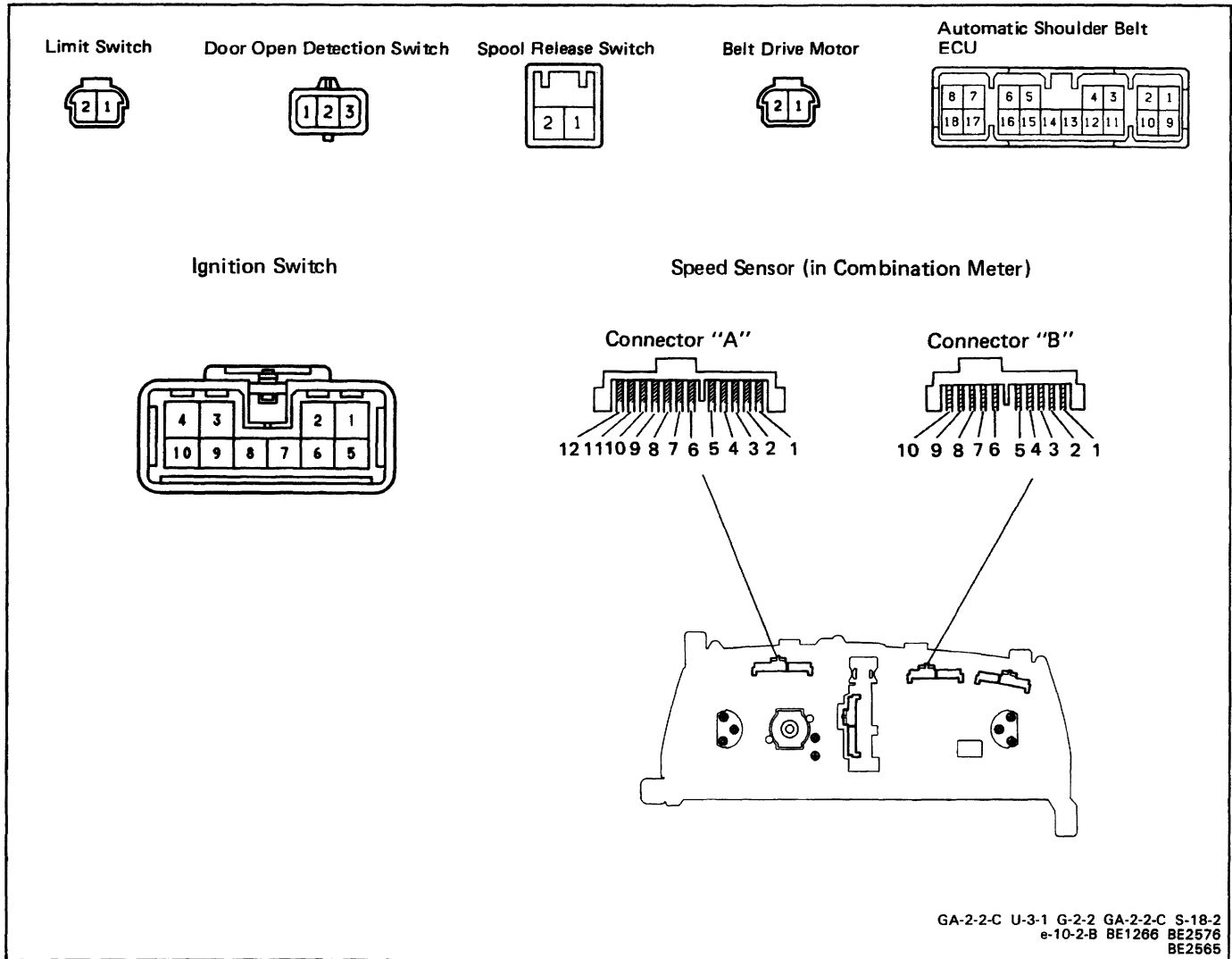
Parts Location



Wiring Diagram

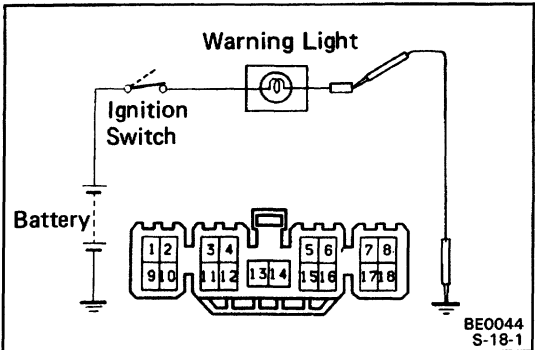
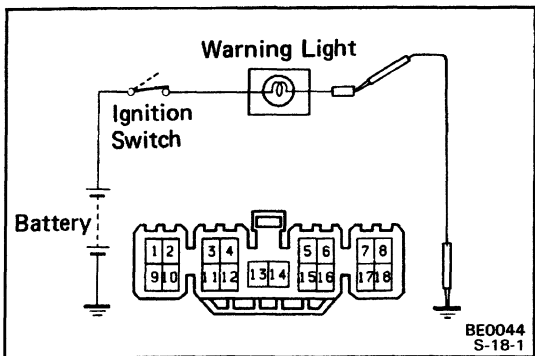


Connector Diagrams



Troubleshooting

Problem	Possible cause	Remedy	Page
Automatic shoulder Belt system does not operate	CB Automatic Shoulder Belt blown	Replace fuse and check for short	BE-3
	GAUGE fuse faulty	Replace fuse and check for short	BE-3
	Front Limit Switch faulty	Check switch	BE-83
	Rear Limit Switch faulty	Check switch	BE-83
	Door Open Detection Switch faulty	Check switch	BE-83
	Spool Release Warning Switch faulty	Check switch	BE-84
	Belt Drive Motor faulty	Check motor	BE-84
	Automatic Shoulder Belt ECU faulty	Check ECU	BE-85



Parts Inspection

1. INSPECT WARNING LIGHTS

(Seat Belt Warning Light)

- (a) Disconnect connector from the automatic shoulder belt ECU and ground terminal 10 on the wire harness side connector.
- (b) Turn the ignition switch ON, check that the warning light lights up.
If the warning light does not light up, test the bulb.

(Release Lever Warning Light)

- (c) Disconnect the connector from the automatic shoulder belt ECU and ground terminal 2 on the wire harness side connector.
- (b) Turn the ignition switch ON, check that the warning light lights up.
If the warning light does not light up, test the bulb.

2. INSPECT SWITCHES

(Front Limit Switch/ Continuity)

<p style="text-align: right;">BE2584 GA-2-2-C</p>	Terminal	
	Switch position	
	1	2
OFF (Shoulder anchor at front end position)		
ON (Shoulder anchor at any position except front end)	○	○

If continuity is not as specified, replace the guide rail assembly.

(Rear Limit Switch/ Continuity)

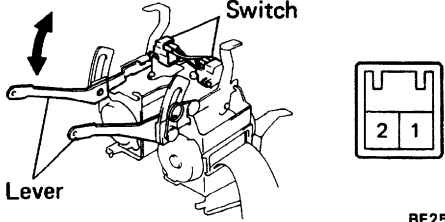
<p style="text-align: right;">BE2585 BE2586 GA-2-2-C</p>	Terminal	
	Switch position	
	1	2
OFF (Shoulder anchor at rear end position)		
ON (Shoulder anchor at any position except rear end)	○	○

(Door Open Detection Switch/ Continuity)

<p style="text-align: right;">BE2587 U-3-1</p>	Terminal		
	Condition		
	1	2	3
Switch pin pushed in (Door closed)	○	○	○
Switch pin released (Door opened)	○	○	

If continuity is not as specified, replace the switch.

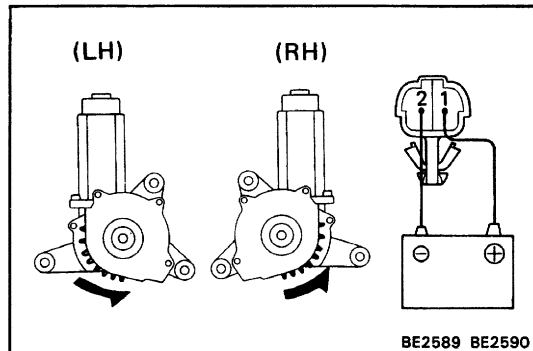
(Spool Release Warning Switch! Continuity)

 <p>BE2588 G-2-2</p>	Terminal	1	2
	Switch position		
	OFF (One or both levers pulled up)		
	ON (Both levers pushed down)	○	○

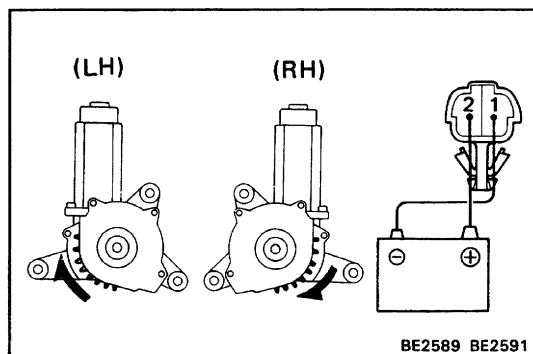
If continuity is not as specified, replace the shoulder belt assembly.

3. INSPECT SPEED SENSOR**(Combination Meter Side/ Operation)**

See Step 2 on page [BE-39](#).

**4. INSPECT BELT DRIVE MOTOR**

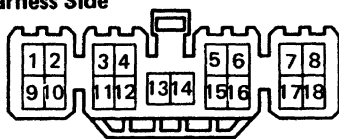
- (a) Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to terminal 2, check that the motor turns counterclockwise.



- (b) Reverse the polarity, check that the motor turns clockwise.

If operation is not as specified, replace the motor.

Wire Harness Side



S-18-1

5. INSPECT AUTOMATIC SHOULDER BELT ECU

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

Check for	Tester Connection	Condition		Specified value
Continuity	1-3	Constant		Continuity
	* 5 - Ground	Driver's door courtesy switch position	OFF (Door closed)	No continuity
			ON (Door opened)	Continuity
	6-8	Constant		Continuity
	7 - Ground	Key unlock warning switch position	OFF (Ignition key removed)	No continuity
			ON (ignition key set)	Continuity
	11 - Ground	Passenger's door open detection switch pin pushed in (Door closed)		
		Passenger's rear limit switch position	OFF (Shoulder belt anchor at rear end)	No continuity
			ON (Shoulder belt anchor at any position except rear end)	Continuity
		Passenger's door open detection switch pin released (Door opened)		No continuity
	*12 - Ground	Passenger's door open detection switch pin released (Door opened)		
		Passenger's front limit switch position	OFF (Shoulder belt anchor at front end)	No continuity
			ON* (Shoulder belt anchor at any position except front end)	Continuity
		Passenger's door open detection switch pin pushed in (Door closed)		No continuity
	13 - Ground	Constant		Continuity
	14 - Ground	Vehicle moving slowly		1 pulse each 40 cm (15.75 in.) approx.
	15 - Ground	Spool release switch position	OFF (One or both levers pulled up)	No continuity
			ON (Both levers pushed down)	Continuity
*16 - Ground	Driver's door open detection switch pin released (Door opened)			
	Driver's front limit switch position	OFF (Shoulder belt anchor at front end)	No continuity	
		ON (Shoulder belt anchor at any position except front end)	Continuity	
	Driver's door open detection switch pin pushed in (Door closed)		No continuity	
17 - Ground	Buckle switch position	OFF (Lap belt fastened)	No continuity	
		ON (Lap belt unfastened)	Continuity	
18 - Ground	Driver's door open detection switch pin pushed in (Door closed)			
	Driver's rear limit switch position	OFF (Shoulder belt anchor at rear end)	No continuity	
		ON (Shoulder belt anchor at any position except rear end)	Continuity	
	Driver's door open detection switch pin released (Door opened)		No continuity	
Voltage	2 - Ground	Ignition switch position	LOCK or ACC	No voltage
			ON	Battery voltage
	4 - Ground	Ignition switch position	LOCK or ACC	No voltage
			ON	Battery voltage
	9 - Ground	Constant		Battery voltage
10 - Ground	Ignition switch position	LOCK or ACC	No voltage	
		ON	Battery voltage	

* This circuit includes the diode. If the circuit shows no continuity, change the positive and negative probes and recheck the circuit.

If circuit is as specified, replace the ECU.