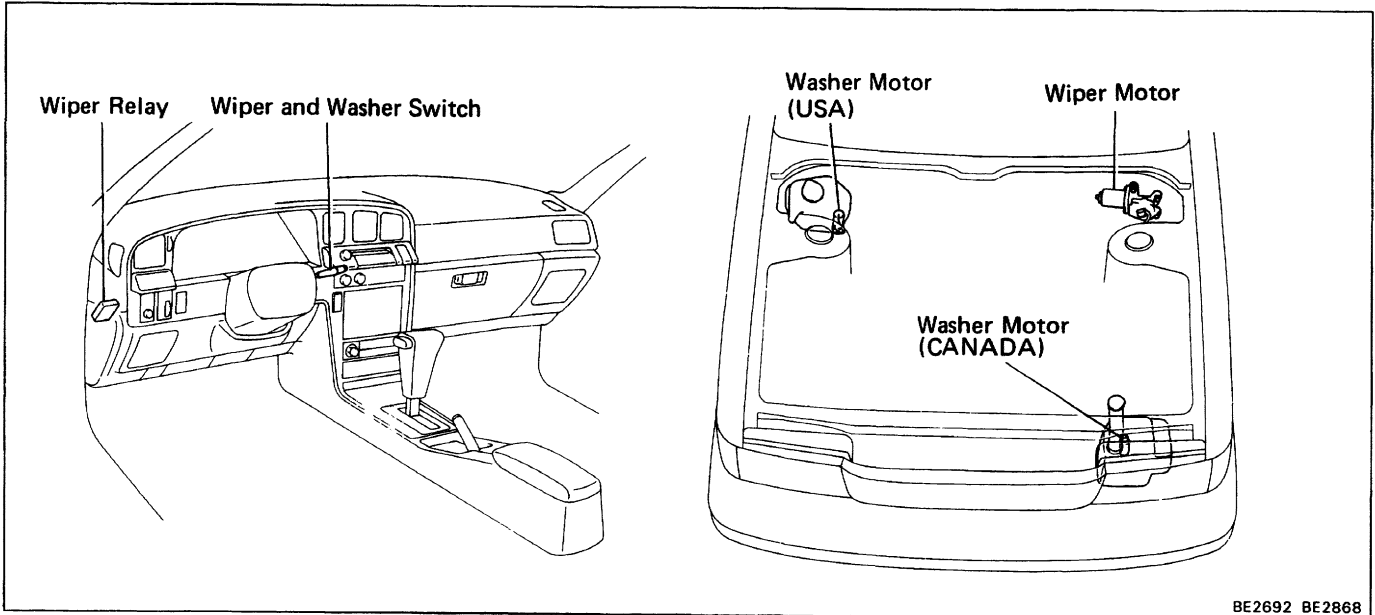


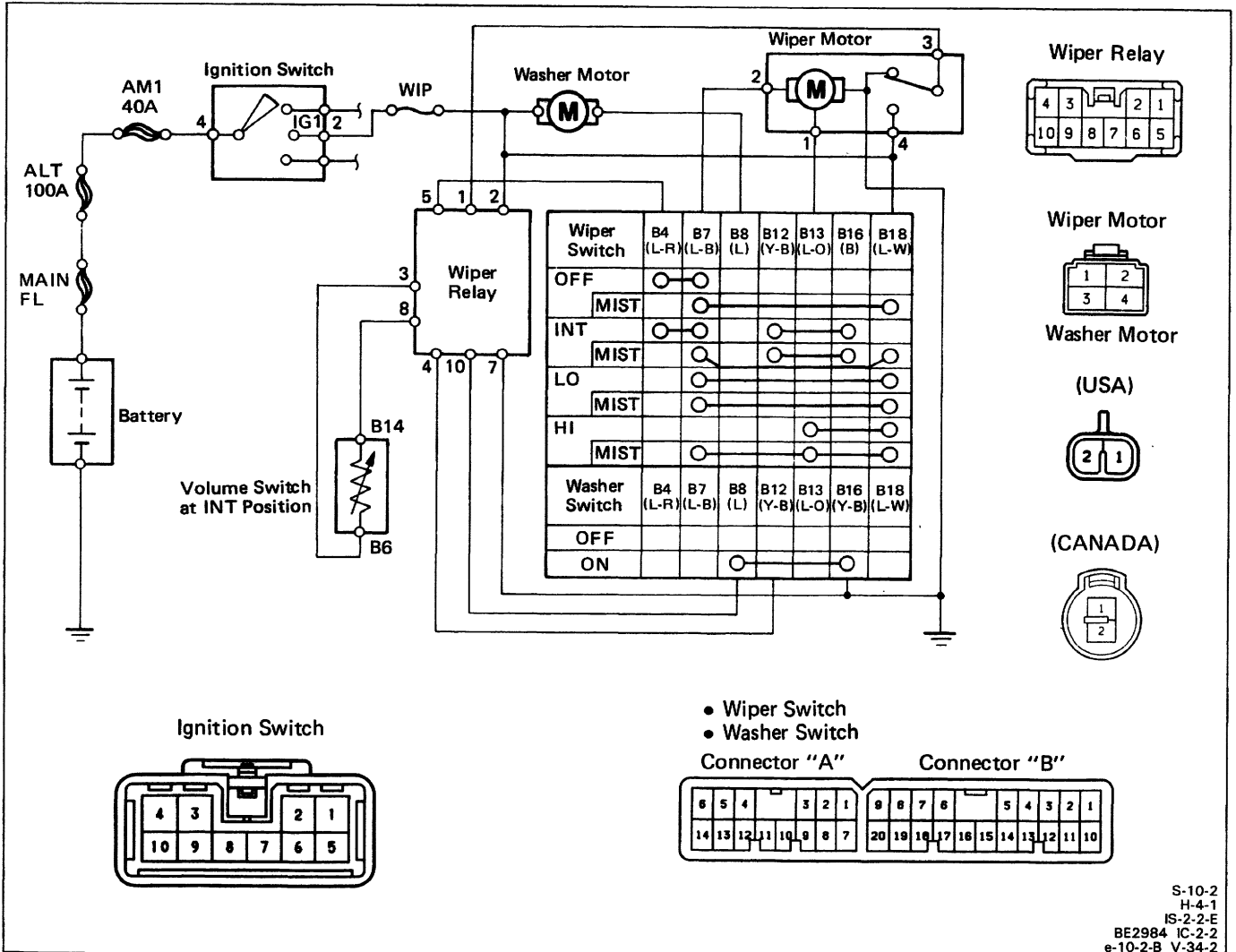
WIPER AND WASHER SYSTEM

Parts Location



BE2692 BE2868

Wiring and Connector Diagram



S-10-2
 H-4-1
 IS-2-2-E
 BE2984 IC-2-2
 e-10-2-B V-34-2

Troubleshooting

Problem	Possible cause	Remedy	Page
Wipers do not operate or return to off position	WIP fuse blown	Replace fuse and check for short	BE-3
	Wiper motor faulty	Check motor	BE-33
	Wiper switch faulty	Check switch	BE-32
	Wiper or ground faulty	Repair as necessary	
Wipers do not operate in INT position	Wiper switch faulty	Check switch	BE-32
	Wiper motor faulty	Check motor	BE-33
	Wiring or ground faulty	Repair as necessary	
Washers do not operate	Washer hose or nozzle clogged	Repair as necessary	
	Washer motor faulty	Replace motor	BE-33
	Wiper switch faulty	Check switch	BE-32
	Wiring faulty	Repair as necessary	

Parts Replacement

See Parts Replacement of Combination Switch on page [BE-16](#).

Parts Inspection

Wiper System

1. INSPECT SWITCH

(Wiper and Washer Switch/ Continuity)

Terminal (Color) Switch position		B-4 (L-R)	B-7 (L-B)	B-13 (L-O)	B-18 (L-W)	B-8 (L)	B-12 (Y-B)	B-16 (B)
Wiper	OFF	OFF	○—○					
		MIST		○—○	○			
	INT	OFF	○—○				○—○	○—○
		MIST		○—○	○	○	○—○	○—○
	LO	OFF		○—○	○	○		
		MIST		○—○	○	○		
HI	OFF			○—○	○			
	MIST		○—○	○	○			
Washer	OFF							
	ON					○—○		○—○

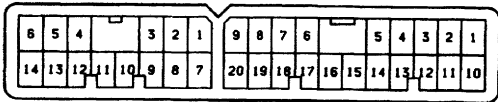
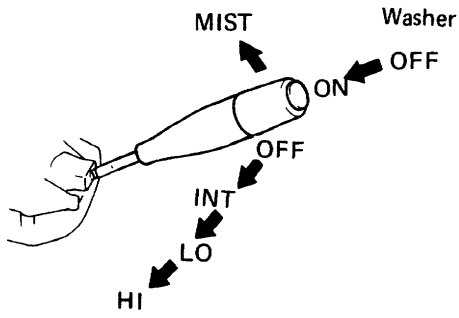
If continuity is not as specified, replace the switch.

(Wiper and Washer Switch/ Resistance)

Terminal (Color) Switch position		B-6 (Y)	B-14 (Y)	Specified value
Wiper	INT	SLOW	○—○	Approx. 50 kΩ
		FAST	○—○	Less than 10Ω

If resistance value is not as specified, replace the switch.

Reference:



Connector "A" Connector "B"

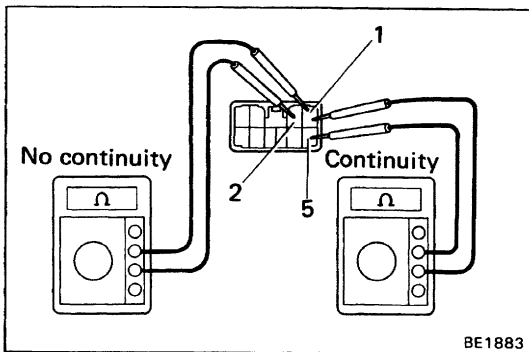
BE2694
V-34-2

2. INSPECT WIPER RELAY

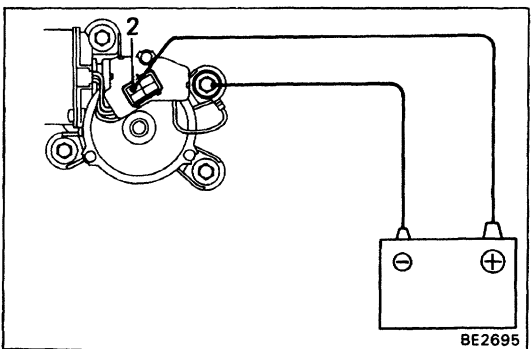
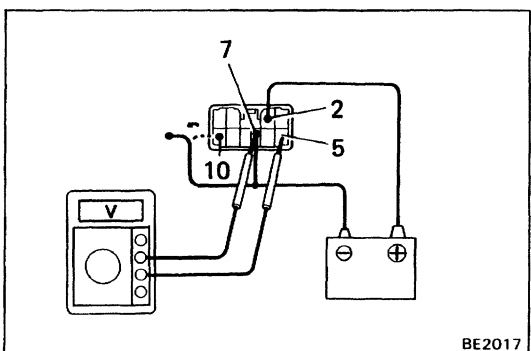
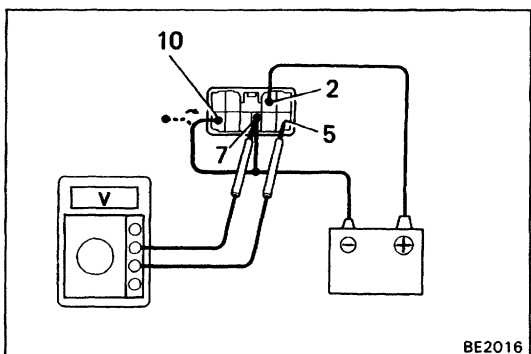
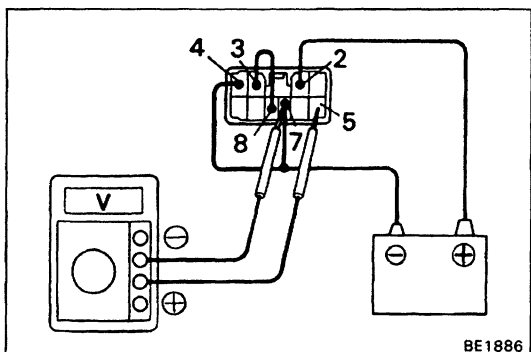
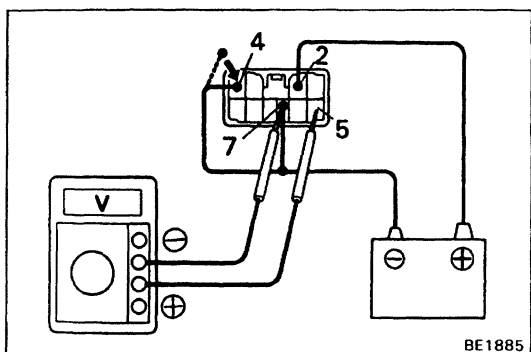
(Continuity)

- (a) Check that there is no continuity between terminals 1 and 2.
- (b) Check that there is continuity between terminals 1 and 5.

If continuity is not as specified, replace the relay.

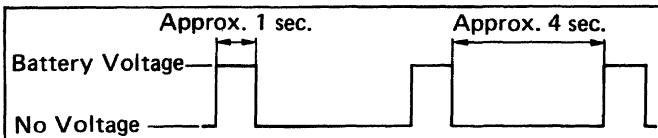


BE1883

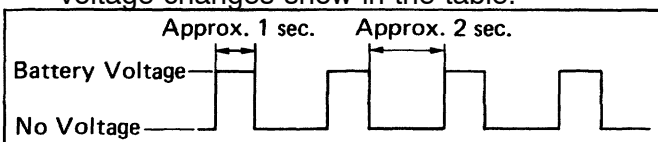


(Operation at Intermittent)

- (a) Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to terminal 7.
- (b) Connect the positive (+) lead from the voltmeter to terminal 5 and the negative (-) lead to terminal 7, check that there is no voltage.
- (c) Connect the negative (-) lead from the battery to terminal 4, check that the voltage changes as shown in the table.



- (d) Connect terminals 3 and 8, check that the voltage changes show in the table.



If operation is not as specified, replace the relay.

(Operation at Washer Linked)

- (a) Connect the positive (+) lead from the battery to terminal 2, and the negative (-) lead to terminal 7.
- (b) Connect the positive (+) lead from the voltmeter to terminal 5 and the negative (-) lead to terminal 7.
- (c) Connect the negative (-) lead from the battery to terminal 10, check that the voltage changes soon to battery voltage from no voltage.
- (d) Disconnect the negative (-) lead from terminal 10, check that the voltage changes to no voltage from battery voltage approximately 2.5 seconds later.

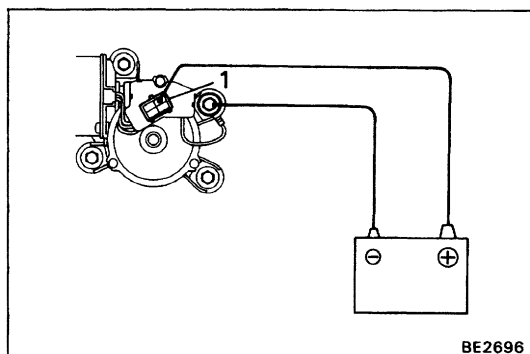
If operation is not as specified, replace the relay.

3. INSPECT MOTOR

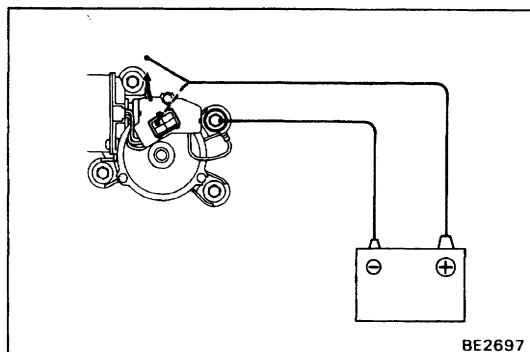
(Operation at Low Speed)

Connect the positive (+) lead from the battery to terminal 2 and the negative (-) lead to the motor- body, check that the motor operates at low speed.

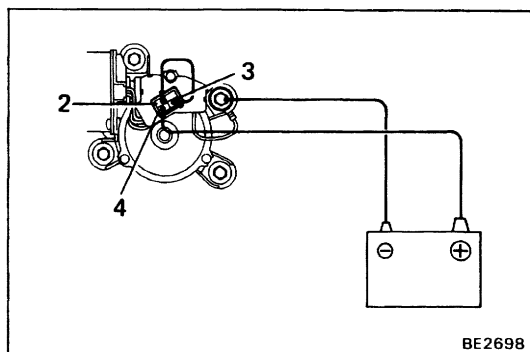
If operation is not as specified, replace the motor.

**(Operation at High Speed)**

Connect the positive (+) lead from the battery to terminal 1 and the negative (-) lead to the motor body, check that the motor operates at high speed. If operation is not as specified, replace the motor.

**(Operation, Stopping at Stop Position)**

- (a) Operate the motor at low speed and stop the motor operation anywhere except at the stop position by disconnecting positive (+) lead from terminal 2.



- (b) Connect terminals 2 and 3.
 (c) Connect the positive (+) lead from the battery to terminal 4 and the negative (-) lead to the motor body, check that the motor stops running at the stop position after the motor operates again.

If operation is not as specified, replace the motor.

Washer System**1. INSPECT WASHER SWITCH****(Windshield Washer Switch)**

See Wiper and Washer Switch on page [BE-32](#).

2. INSPECT WASHER MOTOR**(USA)**

See Headlight Cleaner Motor on page [BE-29](#).

(CANADA)

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

NOTICE: This test must be performed quickly (within 3 - 5 seconds) to prevent the coil from burning out.

If operation is not as specified, replace the motor.

