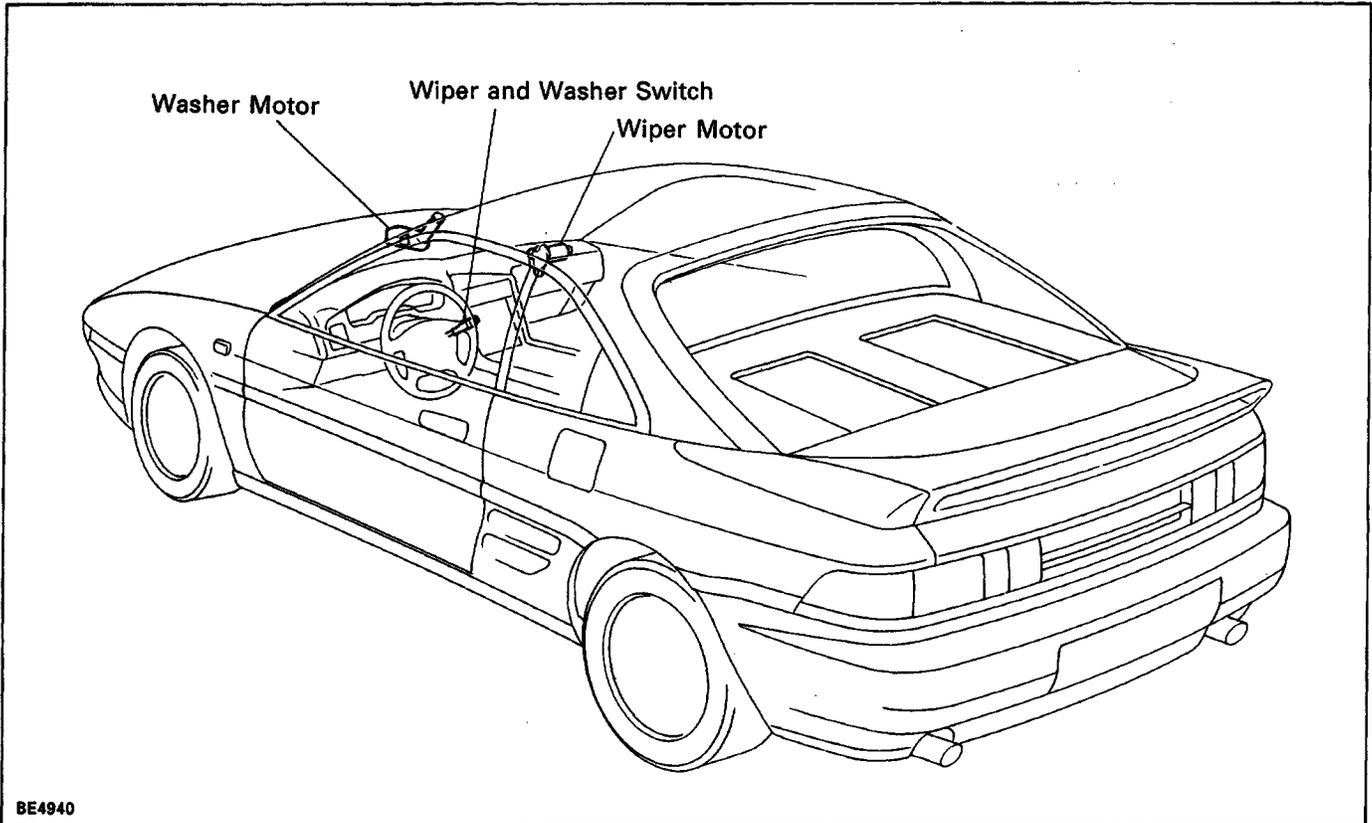
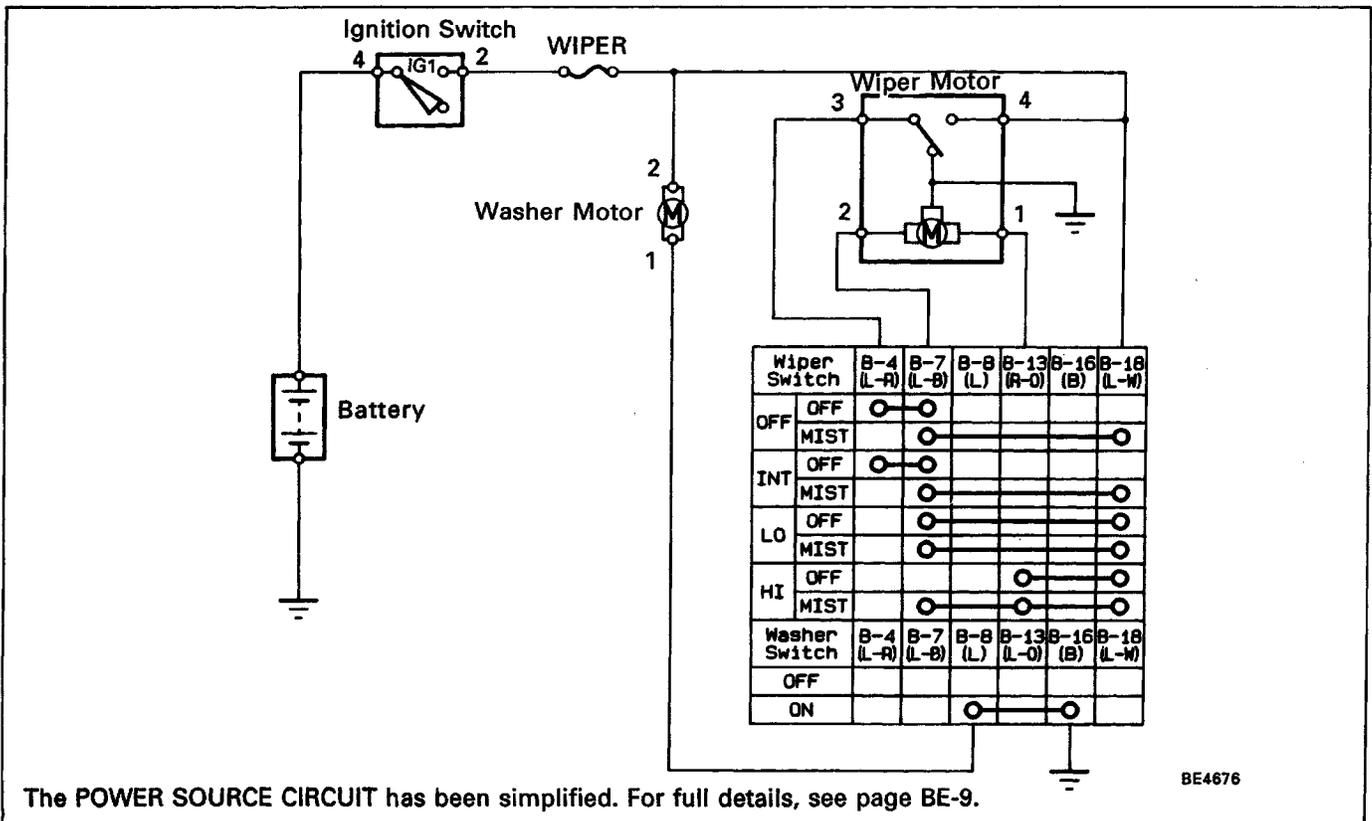


# WIPER AND WASHER SYSTEM PARTS LOCATION



BE4940

# WIRING DIAGRAM

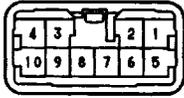


The POWER SOURCE CIRCUIT has been simplified. For full details, see page BE-9.

BE4676

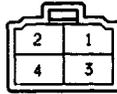
# CONNECTOR DIAGRAMS

Ignition Switch



g-10-2-B

Wiper Motor



H-4-2

Wiper and Washer Switch



Connector "A" Connector "B"

V-34-2

Washer Motor

(All vehicles for CANADA.  
(USA vehicles w/ Cold Area Spec.)

(USA vehicles w/o Cold Area Spec.)



BE4107



IS-2-2-E

# TROUBLESHOOTING

You will find the troubles easier using the table well shown below. In this table, each number shows the priority of causes in troubles. Check each part in order. If necessary, replace these parts.

| See page   | BE-11           | BE-3       | BE-62                   | BE-64       | -                      | -            | BE-65        |
|--|-----------------|------------|-------------------------|-------------|------------------------|--------------|--------------|
| Part name  | Ignition Switch | WIPER Fuse | Wiper and Washer Switch | Wiper Motor | Washer Hose and Nozzle | Wire Harness | Washer motor |
| Trouble  |                 |            |                         |             |                        |              |              |
| Wipers do not operate or return to OFF position. | <b>2</b>        | <b>1</b>   | <b>3</b>                | <b>4</b>    |                        | <b>5</b>     |              |
| Wipers do not operate in INT position.           |                 |            | <b>1</b>                | <b>2</b>    |                        | <b>3</b>     |              |
| Washers do not operate.                          |                 |            | <b>1</b>                |             | <b>2</b>               | <b>4</b>     | <b>3</b>     |

## PARTS REPLACEMENT

See Combination Switch on page [BE-26](#).

# COMBINATION SWITCH

## COMBINATION SWITCH REMOVAL

See page [BO-72](#).

## COMBINATION SWITCH INSTALLATION

See page [BO-72](#).

## COMBINATION SWITCH DISASSEMBLY

See page [BE-28](#).

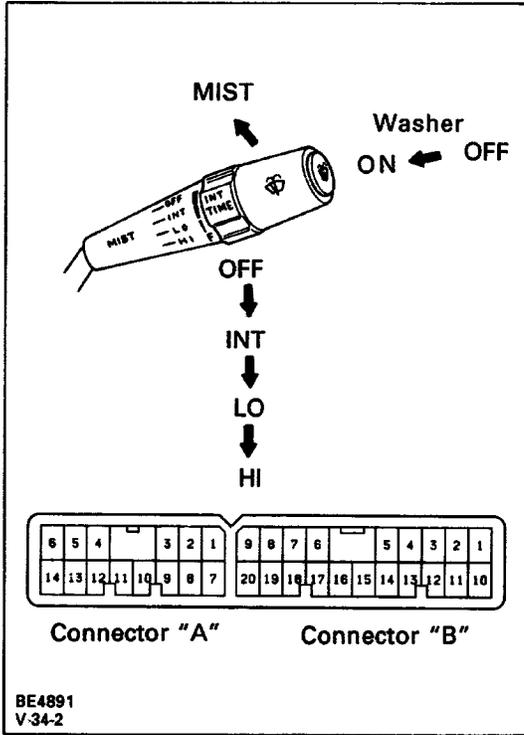
## COMBINATION SWITCH ASSEMBLY

See page [BE-29](#).

## COMBINATION SWITCH INSPECTION

### INSPECTION WIPER AND WASHER SWITCH CONTINUITY

Inspect the switch continuity between terminals.



| Terminal (Color) |      | B-4 (L-R) | B-7 (L-B) | B-8 W | B-13 (R-Q) | B-16 I6Y | e-1S (L-W) |
|------------------|------|-----------|-----------|-------|------------|----------|------------|
| 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.

### INTERMITTENT WIPER OPERATION

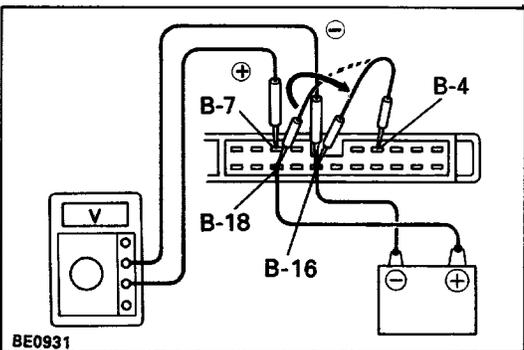
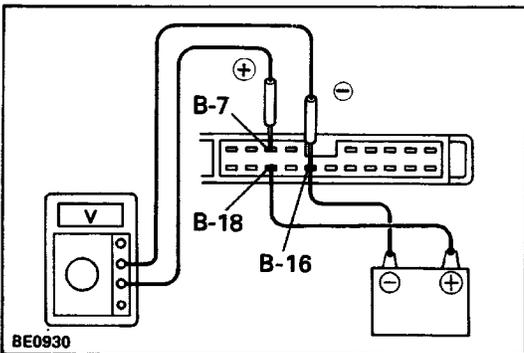
(a) Turn the wiper switch to INT position.

(b) (Variable Type)

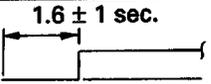
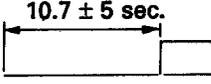
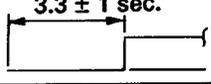
Turn the Intermittent time control switch to FAST position.

(c) Connect the positive (+) lead from the battery to terminal B-18 and the negative (-) lead to terminal B-16.

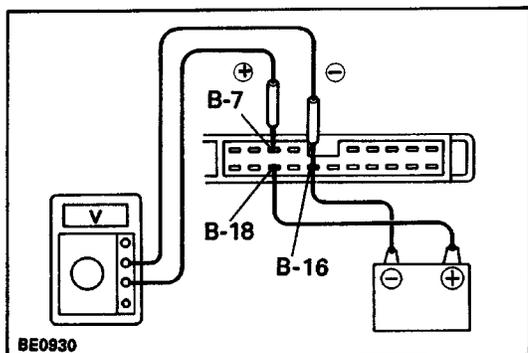
(d) Connect the positive (+) lead from the battery to terminal B-4 and the negative (-) lead to terminal B-16, check that the meter needle indicates battery voltage.



- (e) After connecting terminal B-4 to terminal B-18, connect to terminal B-16.  
 Then, check that the voltage rises from 0 volts to battery voltage within the times as shown in the table.

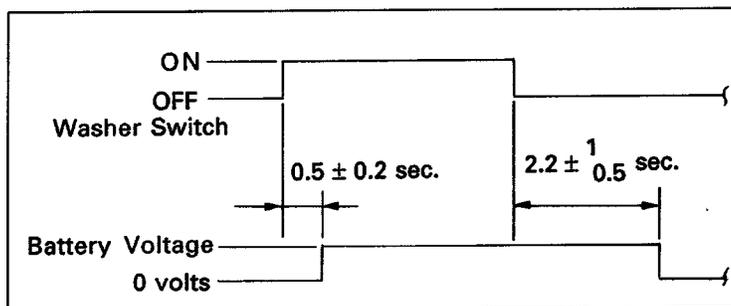
| INT time control switch position | Voltage  |
|----------------------------------|--|
| FAST                             |  <b>Battery voltage</b><br><b>0 volts</b> |
| SLOW                             |  <b>Battery voltage</b><br><b>0 volts</b> |
| Non variable type                |  <b>Battery voltage</b><br><b>0 volts</b> |

If operation is not as specified, replace the switch.



**WASHER LINKED WIPER OPERATION**

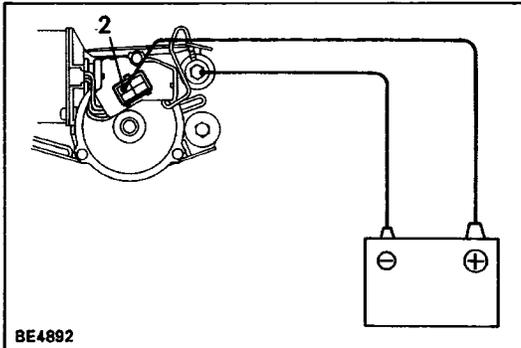
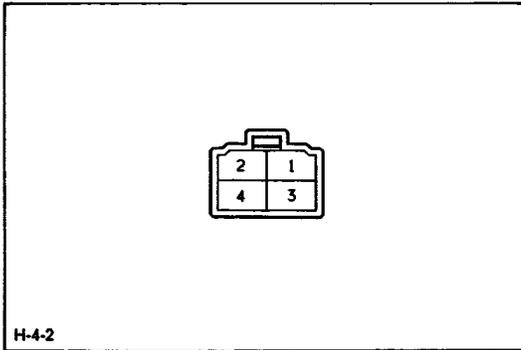
- (a) Connect the positive (+) lead from the battery to terminal B-18 and the negative (-) lead to terminal B-16.  
 (b) Connect the positive (+) lead from the voltmeter to terminal B-7 and the negative (-) lead to terminal B-16.  
 (c) Push in the washer switch. Check that the voltage changes as shown in the table.



If operation is not as specified, replace the switch.

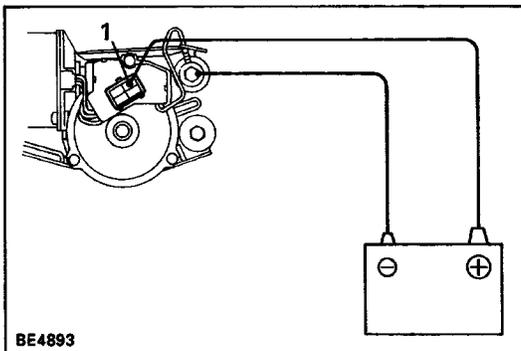
## WIPER MOTOR

### WIPER MOTOR INSPECTION



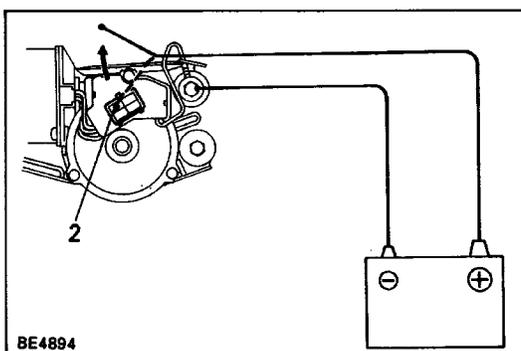
#### OPERATION AT LOW SPEED

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.



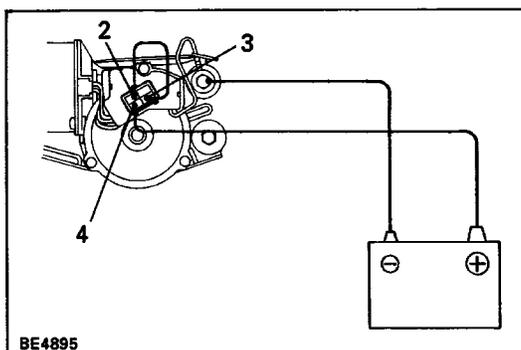
#### OPERATION AT HIGH SPEED

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 W lead from terminal 2.



- (b) Connect terminals 2 and 3.

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 SWITCH

### WASHER SWITCH INSPECTION

See (Wiper and Washer Switch/Continuity) on page [BE-62](#).

## WASHER MOTOR

### WASHER MOTOR INSPECTION

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

**NOTICE:** These tests must be performed quickly (within 20 seconds) to prevent the coil from burning out.

If operation is not as specified, replace the motor.

