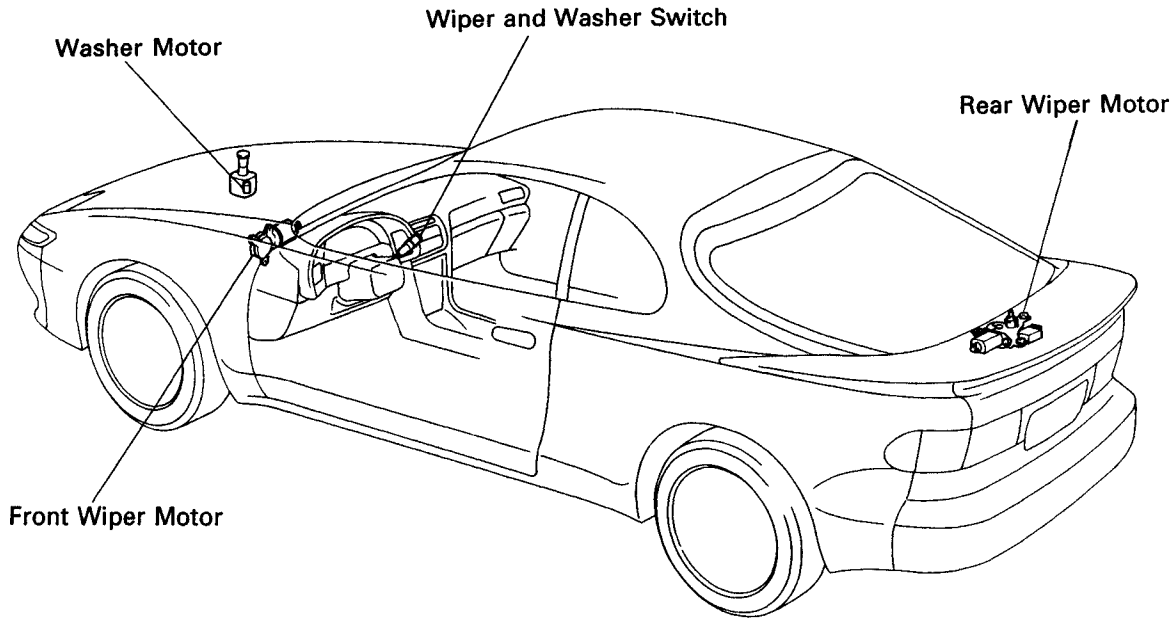
WIPER AND WASHER SYSTEM

PARTS LOCATION



BE4104

TROUBLESHOOTING

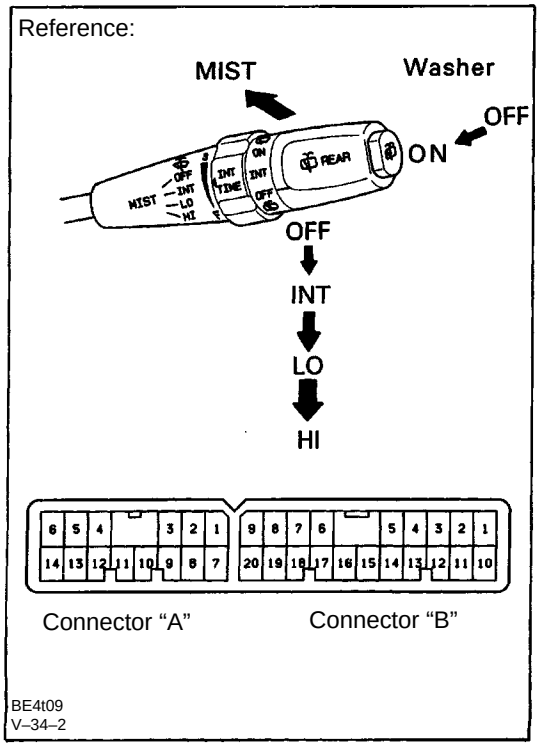
The table below will be useful for you in troubleshooting these electrical problems. The most likely causes of the malfunction are shown in the order of their probability. Inspect each part in the order shown, and replace the part when it is found to be faulty.

Trouble	Part name	See page	
		Front	Rear
Wipers do not operate or return to off position	1. WIPER Fuse 2. Wiper Motor 3. Wiper Switch 4. Wire Harness	BE–3 BE–43 BE–41 —	BE–3 BE–44 BE–43 —
Wipers do not operate i n I NT position	1. Wiper Switch 2. Wiper Motor 3. Wire Harness	BE–41 BE–43 —	BE–43 BE–44 —
Washers do not operate	1. Washer Hose or Nozzle Clogged 2. Washer Motor 3. Wiper Switch 4. Wire Harness	— BE–45 BE–41 —	— BE–45 BE–43 —

COMBINATION SWITCH

See Headlight and Taillight System on page BE–16**.**

Reference:

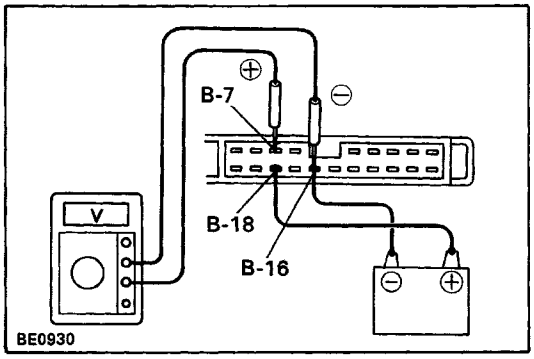


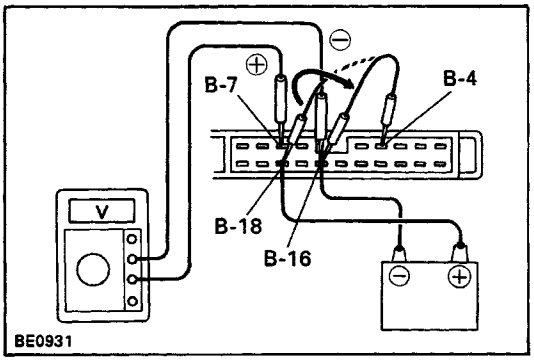
WIPER AND WASHER SWITCH INSPECTION

CONTINUITY

Terminal (Color) / Switch position			B–4 (L–R)	B–7 (L–B)	B–8 (L)	B–13 (L–O)	6–16 (6)	6–18 (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.



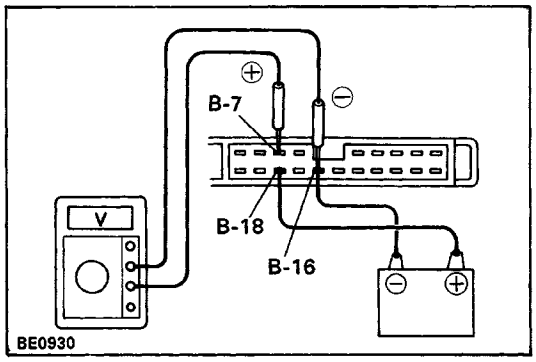


INTERMITTENT WIPER OPERATION

(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 voltmeter to terminal B–7 and the negative (–) lead to terminal B–16, check that the meter needle indicates battery positive 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 positive voltage within the times as shown in the table.

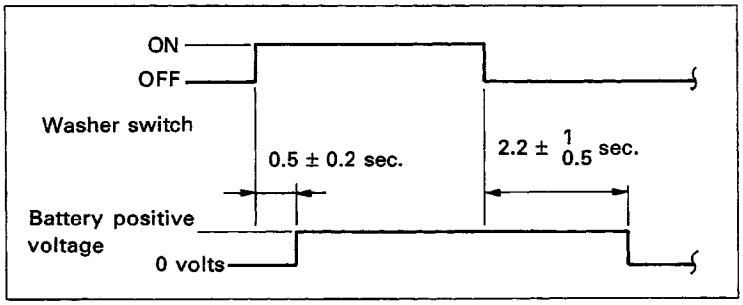
INT time control switch position	Voltage
FAST	1.6 ± 1 sec. — Battery positive voltage / 0 volts
SLOW	10.7 ± 5 sec. — Battery positive voltage / 0 volts
Non variable type	3.3 ± 1 sec. — Battery positive voltage / 0 volts

If operation is not as specified, replace the switch.

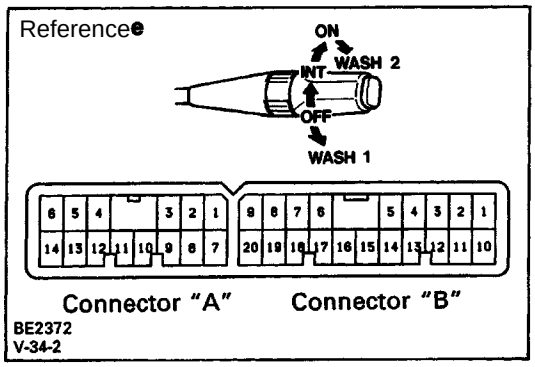


WASHER LINKED WIPER OPERATION

(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 H 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.



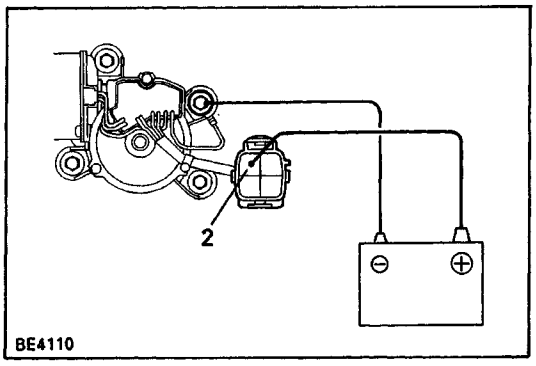
REAR WIPER AND WASHER SWITCH

REAR WIPER AND WASHER SWITCH INSPECTION

CONTINUITY

Terminal (Color) / Switch position	B–1 (G–Y)	B–2 (V)	B–10 (O–R)	B–16)
Washer 1		○		○
OFF				
INT			○	○
ON	○			○
Washer 2	○	○		○

If continuity is not as specified, replace the switch.

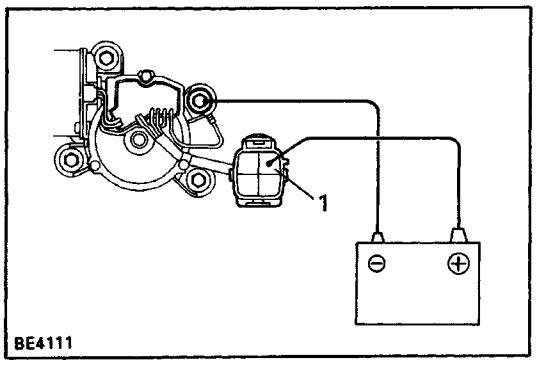


FRONT WIPER MOTOR

FRONT WIPER MOTOR INSPECTION

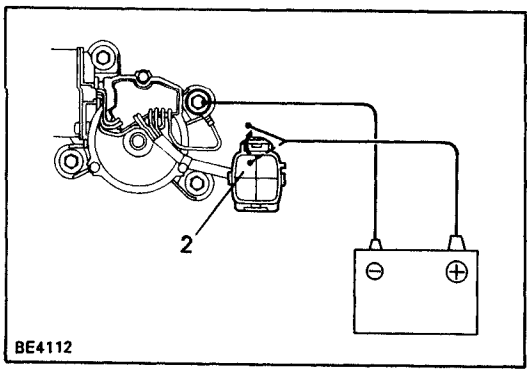
OPERATION AT LOW SPEED

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.



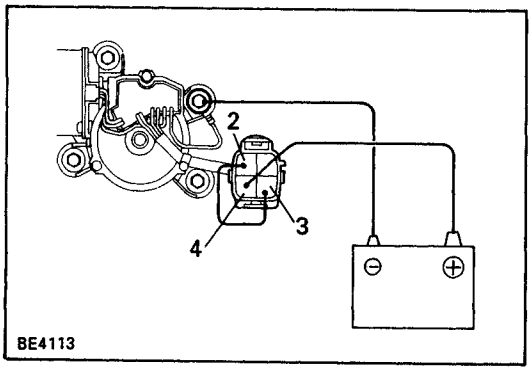
OPERATION AT HIGH SPEED

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.



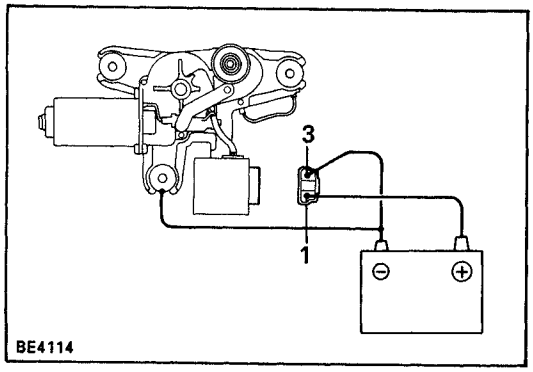
OPERATION, STOPPING AT STOP POSITION

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



(b) Connect terminals 2 and 3.

(c) Connect the positive 1+y 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.

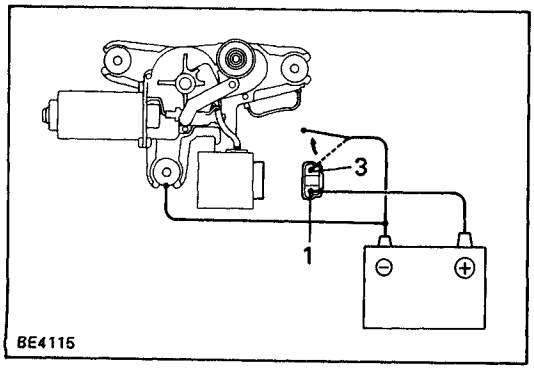


REAR WIPER MOTOR

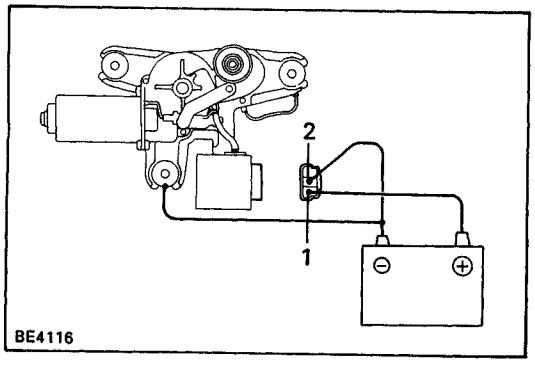
REAR WIPER MOTOR INSPECTION

OPERATION

(a) Connect the positive (+) lead from the battery to terminal 1, and the negative (–) leads to terminal 3 and the motor body, check that the motor operates.



(b) Disconnect the negative (–) lead from terminal 3, check that the motor stops running at the stop position.
If operation is not as specified, replace the motor with the relay.



INTERMITTENT OPERATION

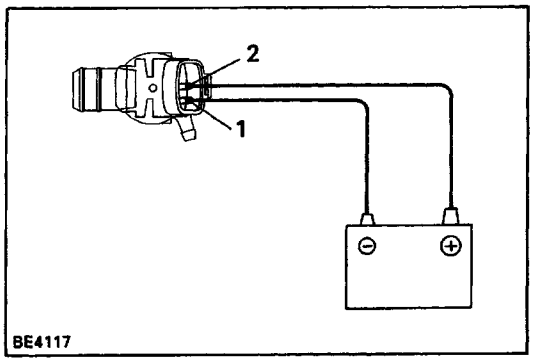
Connect the positive (+) lead from the battery to terminal 1, and the negative (–) leads to terminal 2 and the motor body, check that the motor operates intermittently for 9–15 seconds.
If operation is not as specified, replace the motor with the relay.

FRONT WASHER SWITCH

See page BE–41.

REAR WASHER SWITCH

See page BE–43.



WASHER MOTOR

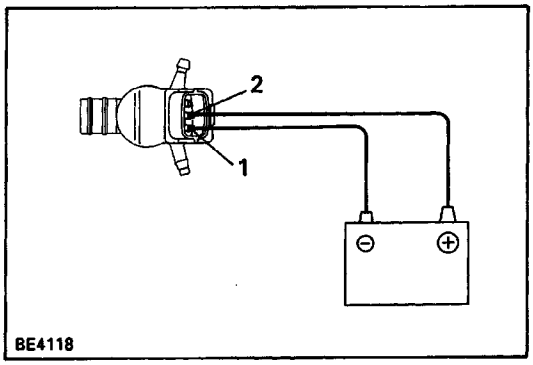
WASHER MOTOR INSPECTION

w/o REAR WIPER

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.

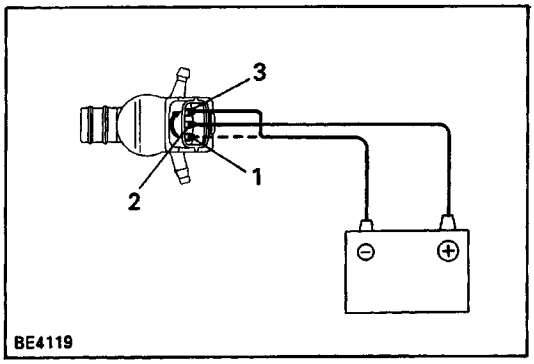
If operation is not as specified, replace the motor.



w/ REAR WIPER

(a) 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.



(b) Disconnect the negative (–) lead from terminal 1, and connect the negative (–) lead from the battery to terminal 3, 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.