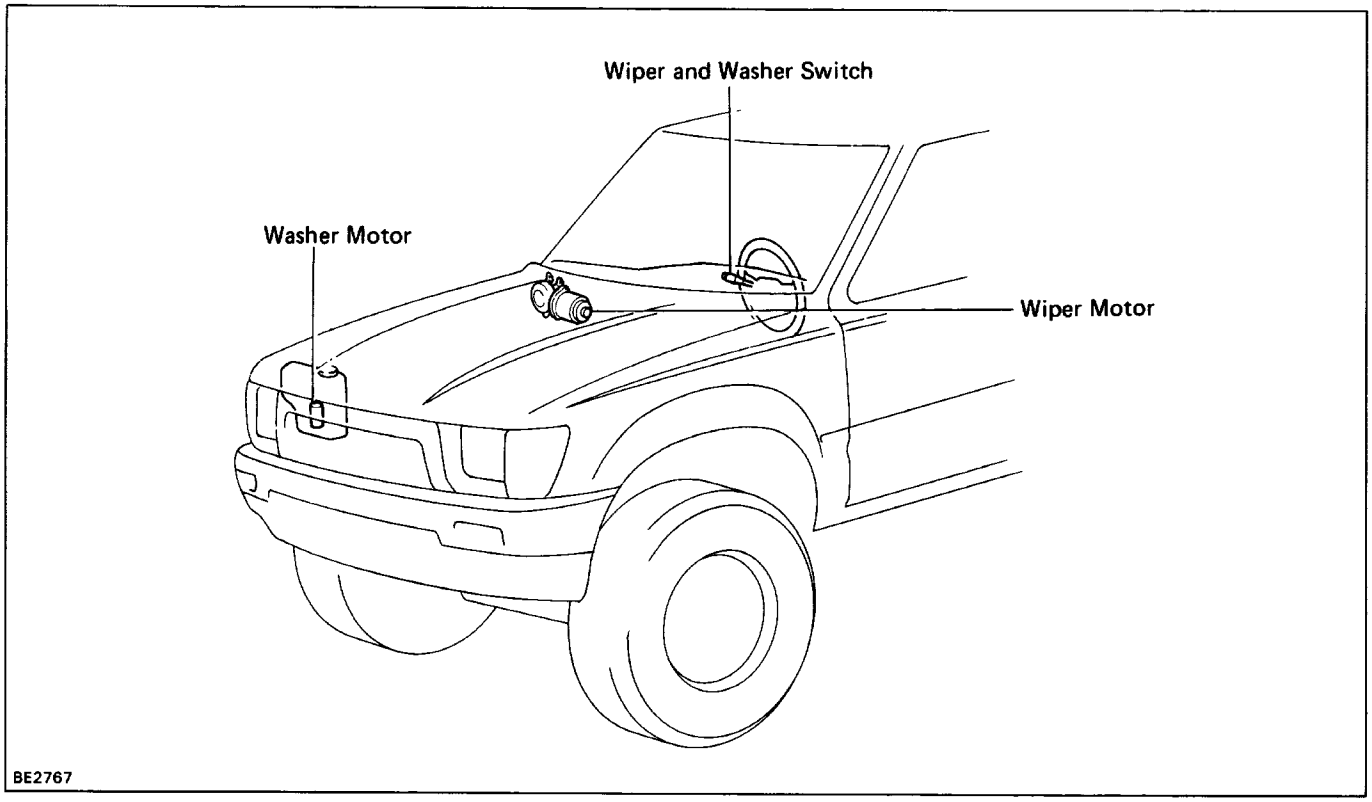
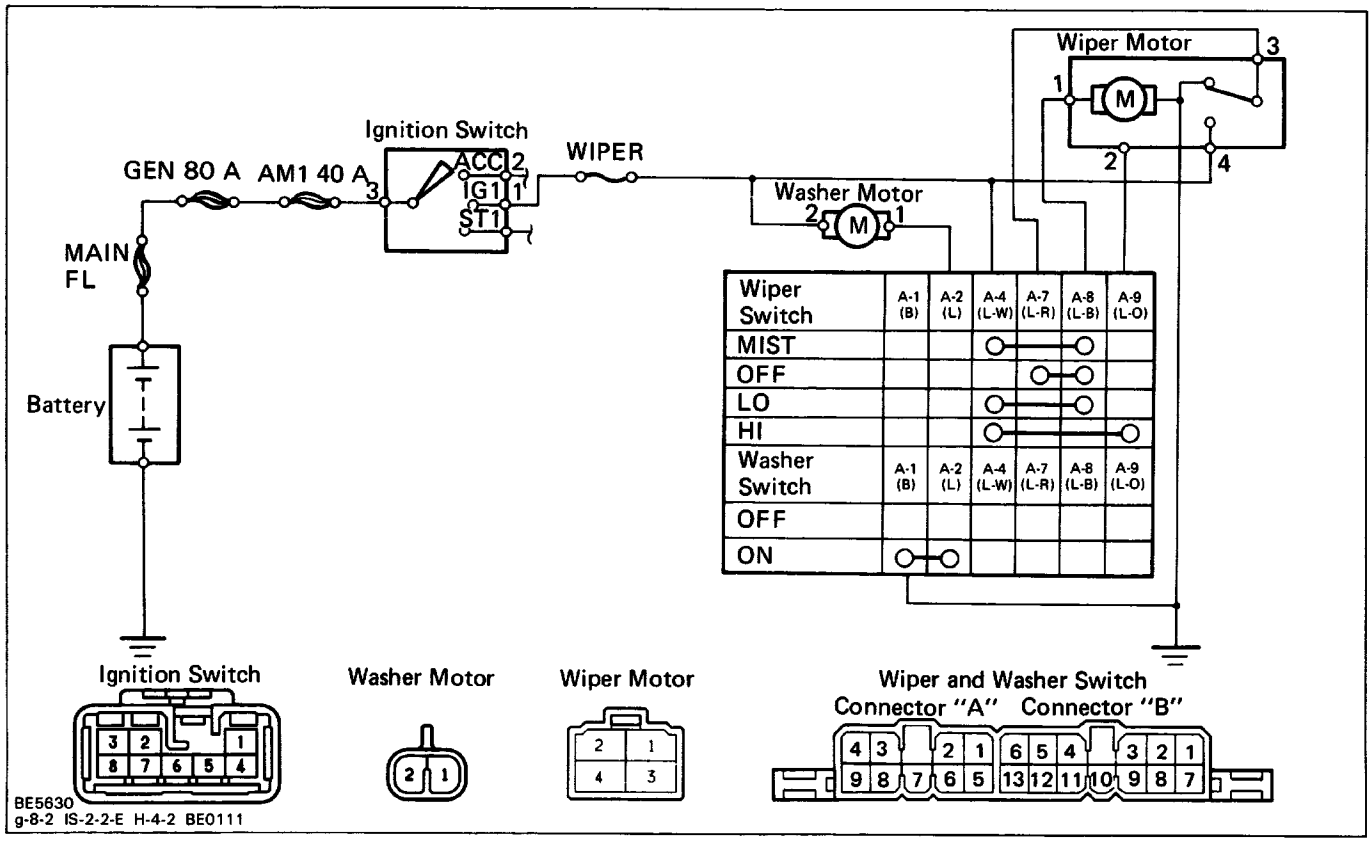
WIPER AND WASHER SYSTEM

Parts Location

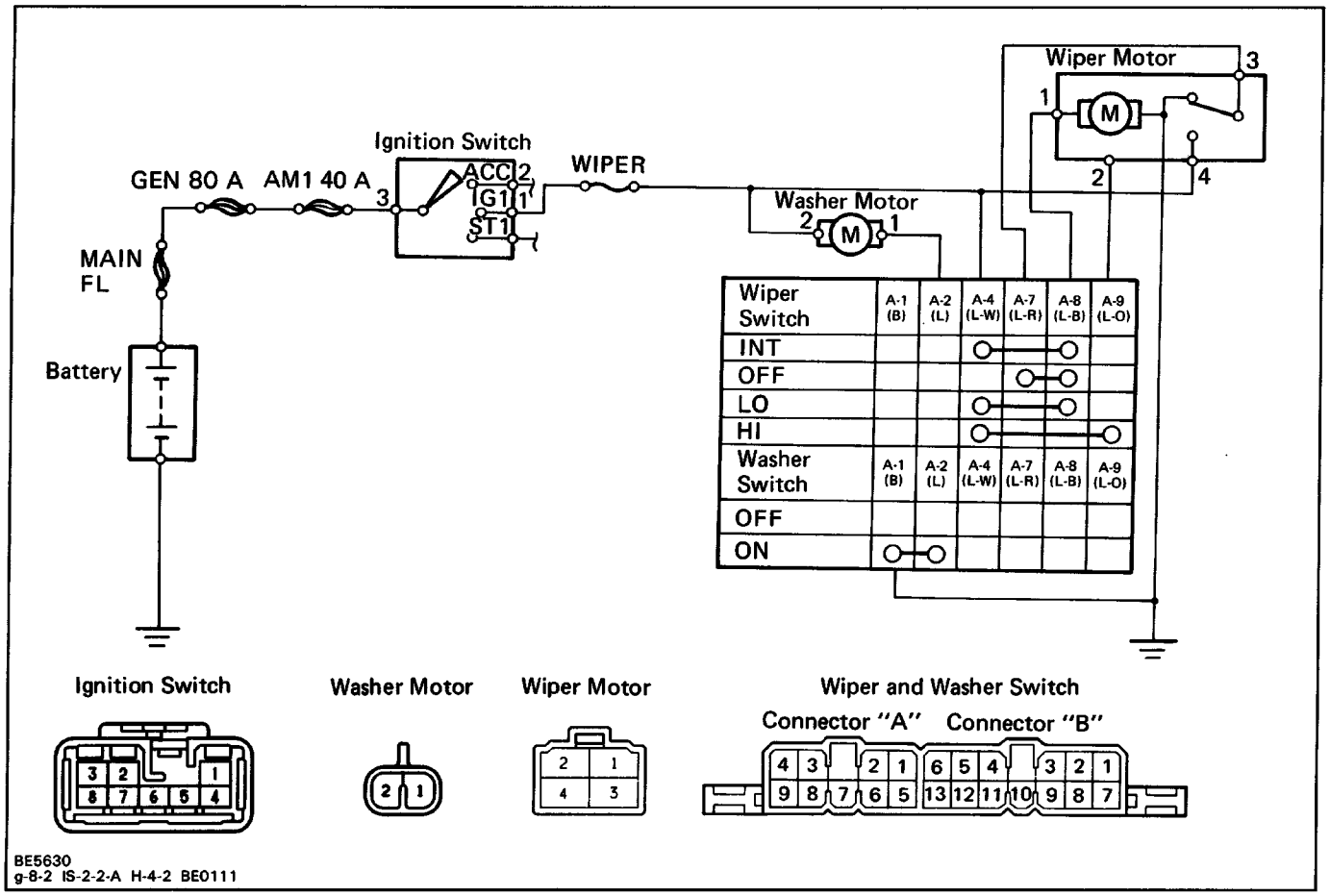


Wiring and Connector Diagrams

(w/ MIST Wiper)



(w/ Intermittent Wiper)

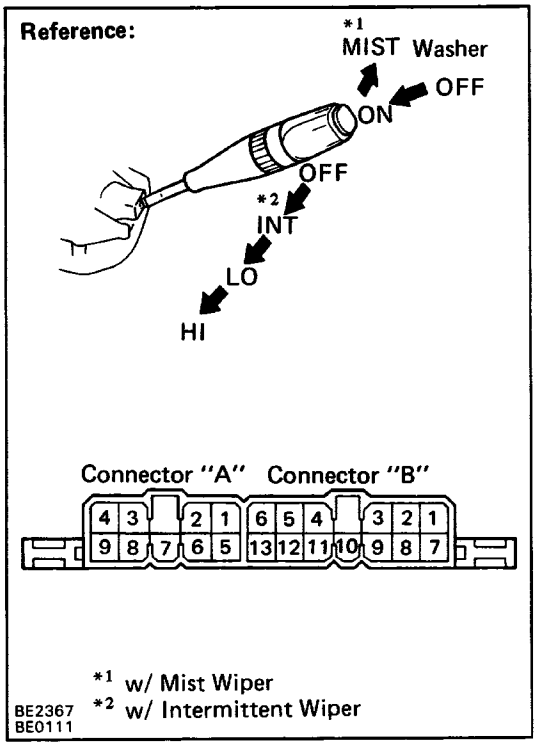


Troubleshooting

Problem	Possible cause	Remedy	Page
Wipers do not operate or return to off position	WIPER fuse blown	Replace fuse and check for short	BE–3
	Wiper motor faulty	Check motor	
	Wiper switch faulty	Check switch	BE–27
	Wiper or ground faulty	Repair as necessary	BE–26
Wipers do not operate in INT position	Wiper switch faulty	Check switch	BE–26
	Wiper motor faulty	Check motor	BE–27
	Wiring or ground faulty	Repair as necessary	
Washers do not operate	Washer hose or nozzle clogged	Repair as necessary	
	Washer motor faulty	Check motor	BE–28
	Washer switch faulty	Check switch	BE–28
	Wiring faulty	Repair as necessary	

Parts Replacement

See replacement of combination switch on pages BE–1 6 to 18.



Parts Inspection

Wiper System

1. INSPECT SWITCHES

(Wiper and Washer Switch/Continuity)

w/ Mist Wiper

Terminal (Color) / Switch position		A-1 (B)	A-2 (L)	A-4 (L-W)	A-7 (L-R)	A-8 (L-B)	A-9 (L-O)
Wiper	MIST			○		○	
	OFF				○	○	
	LO			○		○	
	HI			○			○
Washer	OFF						
	ON	○	○				

wI Intermittent Wiper

Terminal (Color) / Switch position		A-1 (B)	A-2 (L)	A-4 (L-W)	A-7 (L-R)	A-8 (L-B)	A-9 (L-O)
Wiper	MIST				○	○	
	INT			○		○	
	LO			○		○	
	HI			○			○
Washer	OFF						
	ON	○	○				

If continuity is not as specified, replace the switch.

(Wiper and Washer Switch /intermittent Wiper Operation)

(a) Turn the wiper switch to INT position.

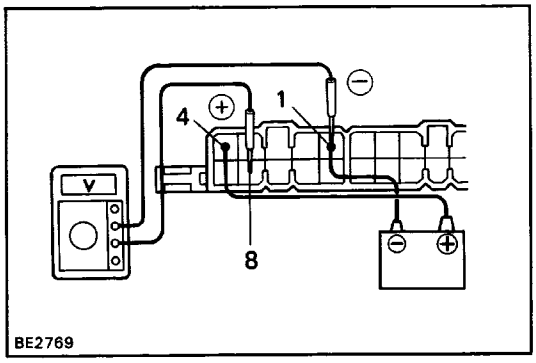
(b) (Variable Type)
Turn the intermittent time control switch to FAST position.

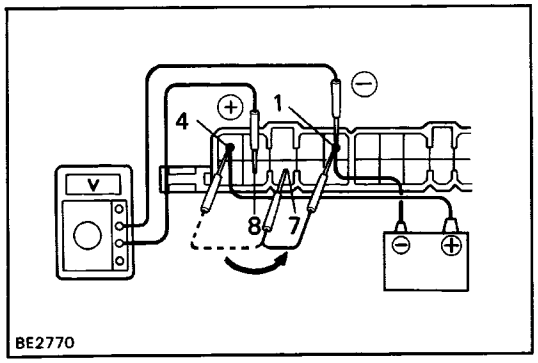
(c) Connect the positive (+) lead from the battery to terminal 4!9 and the negative (–) lead to terminal 1/9.

(d) Connect the positive (+) lead from the voltmeter to terminal 8I9 and the negative (–) lead to terminal 1/9, check that the meter needle indicates battery positive voltage.

(e) After connecting terminal 7I9 to terminal 419, con–nect to terminal 1/9.

Then, check that the voltage rises from 0 volts to battery positive voltage within the times as shown in the table.





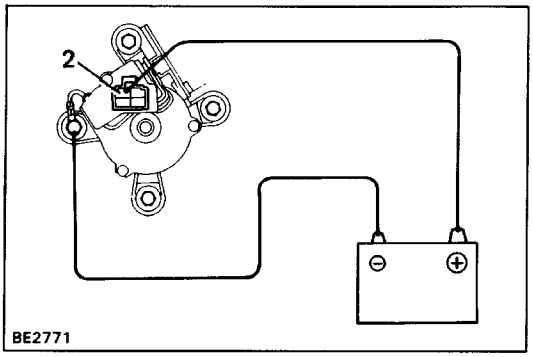
Non Variable Type

Switch position	Specified valve
INT	3.3 ± 1 sec. Battery positive voltage 0 volts

Variable Type

Switch position		Specified valve
INT	FAST	1.6 ± 1 sec. Battery positive voltage 0 volts
	LOW	10.7 ± 5 sec. Battery positive voltage 0 volts

If operation is not as specified, replace the switch.

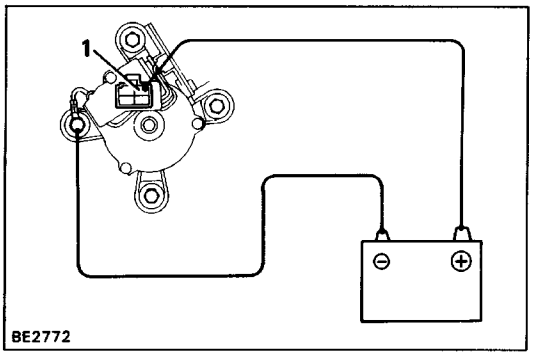


2. INSPECT MOTOR

(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.

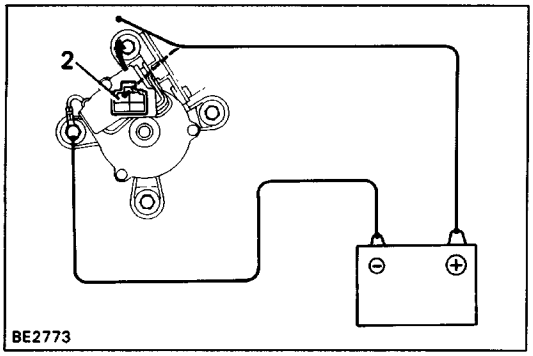
If operation is not as specified, replace the motor.



(Operation at High Speed)

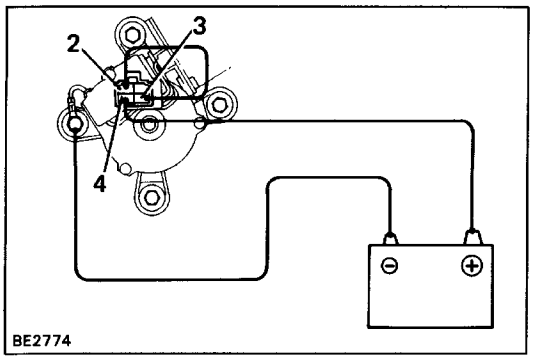
Connect the positive (+) lead from the battery to terminal 1 and the negative (–) lead to the motor body, check that the motor operates at high speed.

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.

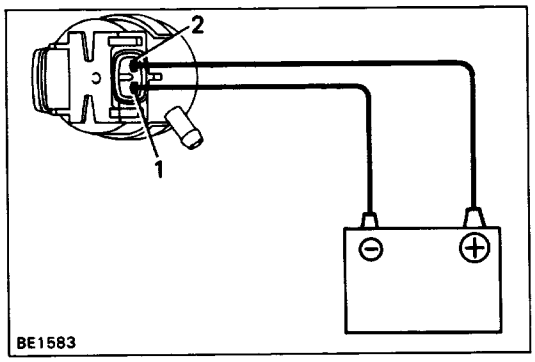
If operation is not as specified, replace the motor.

Washer System

1. INSPECT WASHER SWITCH

(Front Windshield Washer Switch)

See Wiper and Washer Switch on page BE–27.



2. INSPECT WASHER MOTOR

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.