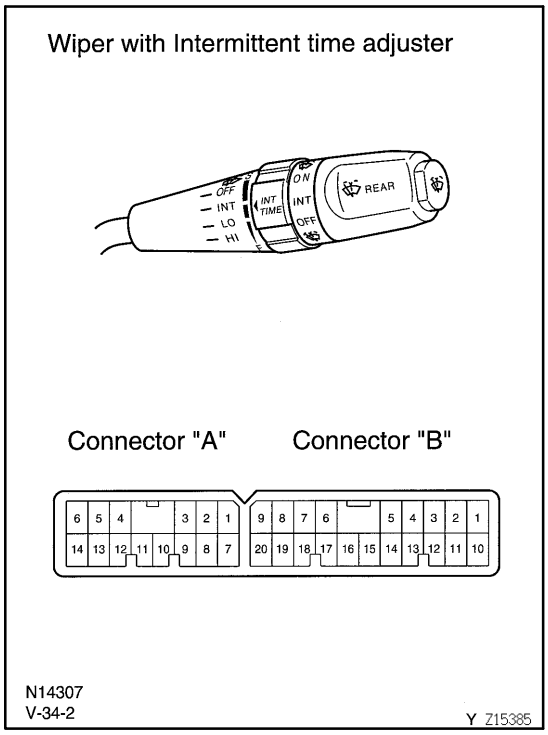
BE1Q5–01



INSPECTION

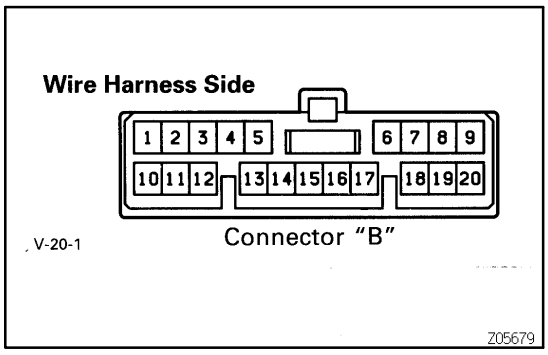
1. INSPECT FRONT WIPER AND WASHER SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
Wiper OFF	B4 – B7	Continuity
Wiper INT	B4 – B7	Continuity
Wiper LO	B7 – B18	Continuity
Wiper HI	B13 – B18	Continuity
Washer OFF	–	No continuity
Washer ON	B8 – B16	Continuity

2. INSPECT REAR WIPER AND WASHER SWITCH CONTINUITY

Switch position	Tester connection	Specified condition
Washer ON	B2 – B16	Continuity
Wiper OFF	–	No continuity
Wiper INT	B10 – B16	Continuity
Wiper ON	B1 – B16	Continuity
Washer ON	B1 – B2 – B16	Continuity

If continuity is not as specified, replace the switch.

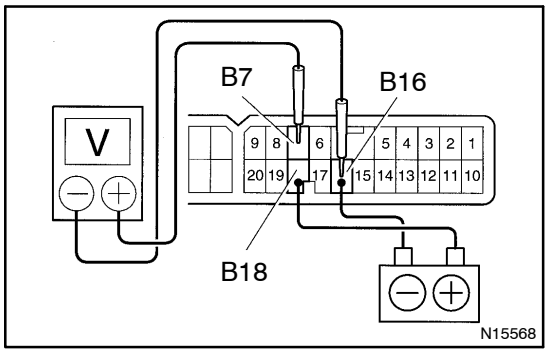


3. INSPECT COMBINATION SWITCH CIRCUIT

Disconnect the connector "B" from the switch and inspect the connector "B" on the wire harness side, as shown.

Tester connection	Condition	Specified condition
B16 – Ground	Constant	Continuity
B18 – Ground	Ignition switch LOCK or ACC	No voltage
B18 – Ground	Ignition switch ON	Battery positive voltage

If circuit is not as specified, inspect wire harness or power source.

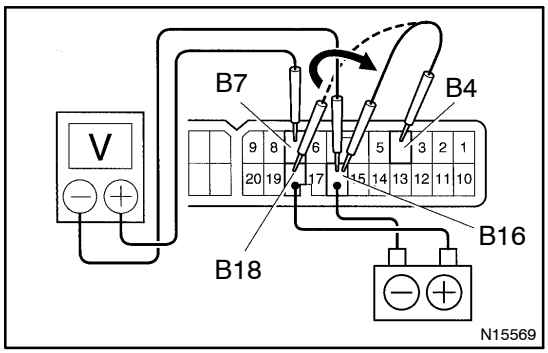


4. INSPECT INTERMITTENT WIPER OPERATION

(a) Turn the wiper switch to the INT position.

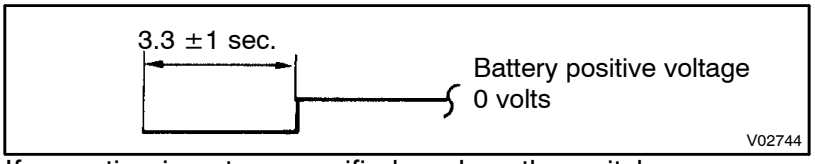
(b) Turn the intermittent time control switch to the FAST position.

(c) Connect the positive (+) lead from the battery to terminal B18 and the negative (–) lead to terminal B16.

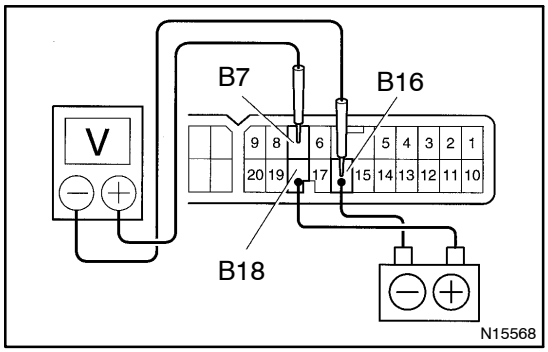


(d) Connect the positive (+) lead from the voltmeter to terminal B7 and the negative (–) lead to terminal B16, and check that the meter needle indicates battery positive voltage.

(e) After connecting terminal B4 to terminal B18, connect B18 to terminal B16.
Then, check that the voltage rises from O volt to battery positive voltage within time as follows.



If operation is not as specified, replace the switch.

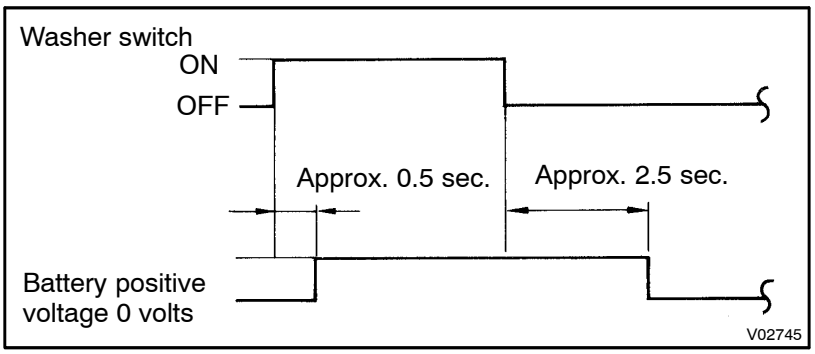


5. INSPECT WASHER LINKED OPERATION

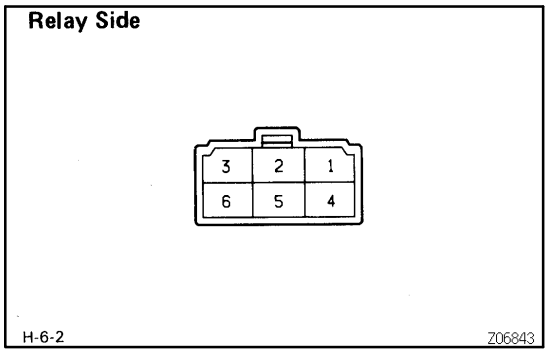
(a) Connect the positive (+) lead from the battery to terminal B18 and the negative (–) lead to terminal B16.

(b) Connect the positive (+) lead from the voltmeter to terminal B7 and the negative (–) lead to terminal B16.

(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.

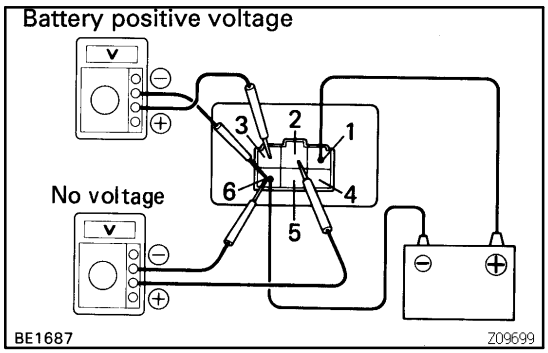


6. INSPECT REAR WIPER RELAY CONTINUITY

(a) Check that there is no continuity between terminals 1 and 3.

(b) Check that there is continuity between terminals 2 and 3.

If continuity is not as specified, replace the relay.



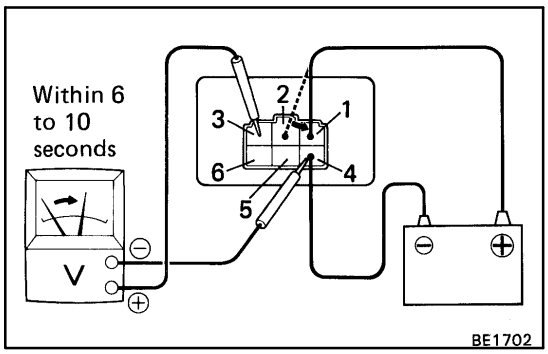
7. INSPECT REAR WIPER RELAY OPERATION

(a) Connect the positive (+) lead from the battery to terminal 1 and the negative (–) lead to terminal 6.

(b) Connect the positive (+) lead from the voltmeter to terminal 2 and the negative (–) lead to terminal 6, and check that the meter needle indicates to O V.

(c) Connect the positive (+) lead from the voltmeter to terminal 3 and the negative (–) lead to terminal 6, and check that the meter needle indicates to battery positive voltage.

If operation is not as specified, replace the relay.



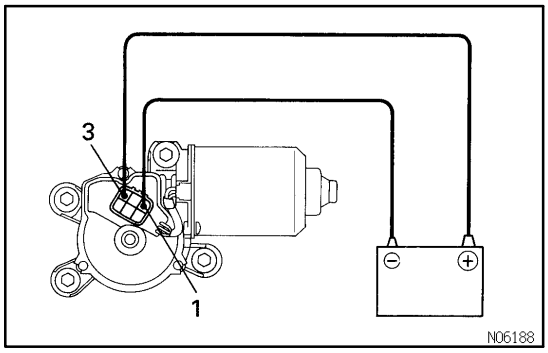
8. INSPECT REAR WIPER RELAY INTERMITTENT OPERATION

(a) Connect the positive (+) lead from the battery to terminal 2 and the negative (–) lead to terminal 4.

(b) Connect the positive (+) lead from the voltmeter to terminal 3 and the negative (–) lead to terminal 4.

(c) After disconnecting the positive (+) lead from terminal 2, connect it to terminal 1, and then, check that the meter needle rises from O V to battery positive voltage within 6 to 10 seconds.

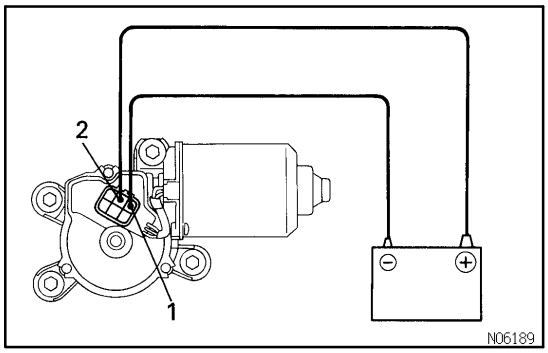
If operation is not as specified, replace the relay.



9. Low Speed:
INSPECT FRONT WIPER MOTOR OPERATION

Connect the positive (+) lead from the battery to terminal 3 and negative (–) lead to terminal 1, and check that the motor operates at low speed.

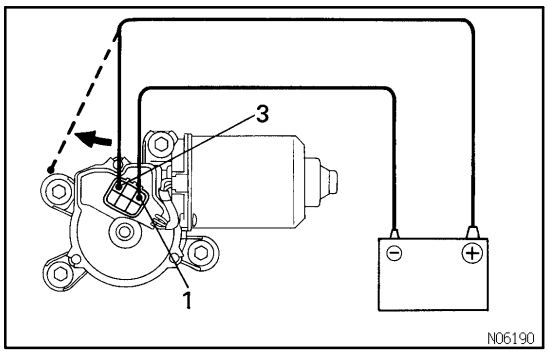
If operation is not as specified, replace the motor.



10. High Speed:
INSPECT FRONT WIPER MOTOR OPERATION

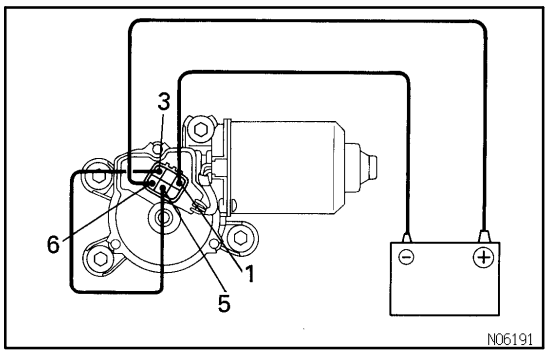
Connect the positive (+) lead from the battery to terminal 2 and the negative (–) lead to terminal 1, and check that the motor operates at high speed.

If operation is not as specified, replace the motor.



11. Stopping at Stop Position:
INSPECT FRONT WIPER MOTOR OPERATION

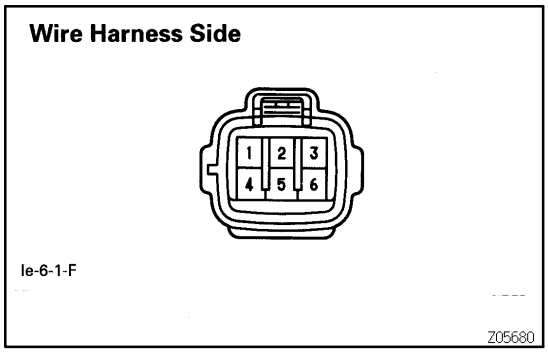
(a) Operate the motor at low speed and stop the motor operation anywhere except at the stop position by disconnecting positive (+) lead from terminal 3.



(b) Connect terminal 3 and 5.

(c) Connect the positive (+) lead from the battery to terminal 6 and the negative (–) lead to terminal 1, and check that the motor stops running at the stop position after the motor operates again.

If operation is not as specified, replace the motor.

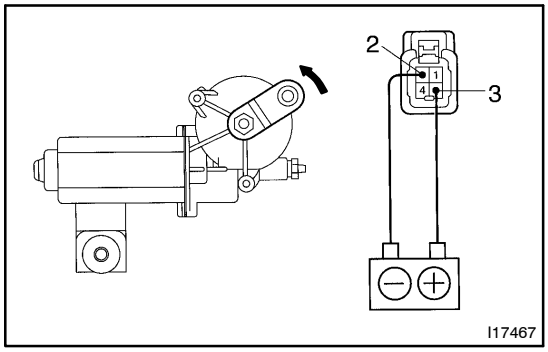


12. INSPECT FRONT WIPER MOTOR CIRCUIT

Disconnect the connector from the motor and inspect the connector on the wire harness side, as shown next chart.

Tester connection	Condition	Specified condition
2 – Ground	Wiper switch position (ignition switch ON) OFF or INT, LOW	No voltage
2 – Ground	Wiper switch position (ignition switch ON) HIGH	Battery positive voltage
3 – Ground	Wiper switch position (ignition switch ON) OFF or INT, HIGH	No voltage
3 – Ground	Wiper switch position (ignition switch ON) LOW	Battery positive voltage
6 – Ground	Ignition switch position OFF or ACC	No voltage
6 – Ground	Ignition switch position ON	Battery positive voltage

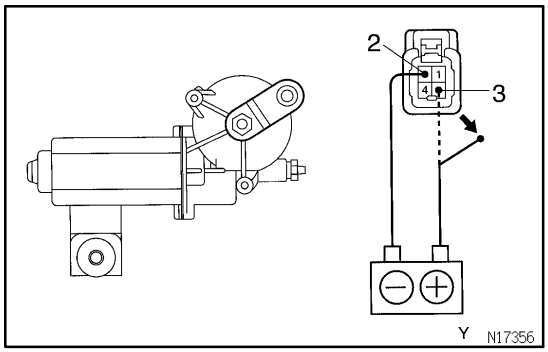
If the circuit is not as specified, inspect the circuits connected to other parts.



13. Low Speed:
INSPECT REAR WIPER MOTOR OPERATION

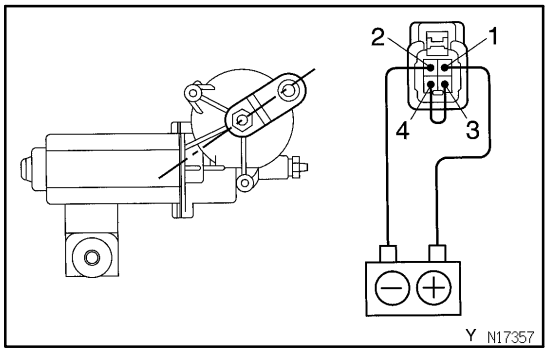
Connect the positive (+) lead from the battery to terminal 3 and negative (–) lead to terminal 2, and check that the motor operates at low speed.

If operation is not at specified, replace the motor.



14. Stopping at Stop Position:
INSPECT REAR WIPER MOTOR OPERATION

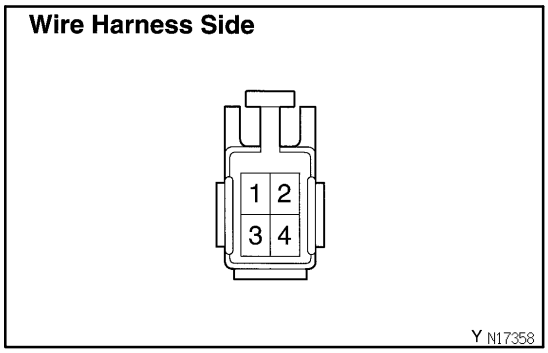
(a) Operate the motor at low speed and stop the motor operation anywhere except at the stop position by disconnecting positive (+) lead from terminal 3.



(b) Connect terminal 3 and 4.

(c) Connect the positive (+) lead from the battery to terminal 1 and the negative (–) lead to terminal 2, and check that the motor stops running at the stop position after the motor operates again.

If operation is not as specified, replace the motor.

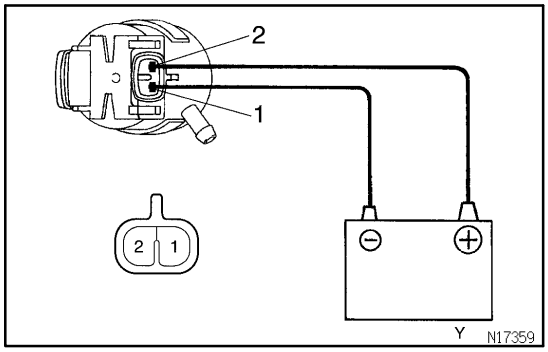


15. INSPECT REAR WIPER MOTOR CIRCUIT

Disconnect the connector from the motor and inspect the connector on the wire harness side, as shown.

Tester connection	Condition	Specified condition
1 – Ground	Ignition switch position OFF or ACC	No voltage
1 – Ground	Ignition switch position ON	Battery positive voltage
2 – Ground	Constant	Continuity
3 – 4	Constant	Continuity

If the circuit is not as specified, inspect the circuits connected to other parts.



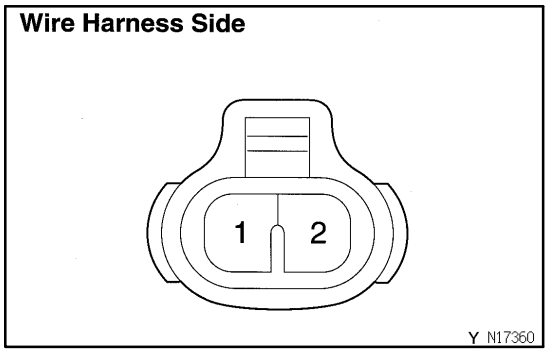
16. INSPECT WASHER MOTOR OPERATION

Connect the positive (+) lead from the battery to terminal 2 and the negative (–) lead to terminal 1, and 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.



17. INSPECT WASHER MOTOR CIRCUIT

Disconnect the connector from the washer motor and inspect the connector on wire harness side, as shown.

Tester connection	Condition	Specified condition
1 – Ground	Washer switch position OFF (released)	No continuity
1 – Ground	Washer switch position OFF (pushed in)	Continuity
2 – Ground	Ignition switch position LOCK or ACC	No voltage
2 – Ground	Ignition switch position ON	Battery positive voltage

If the circuit is not as specified, inspect the circuits connected to other parts.