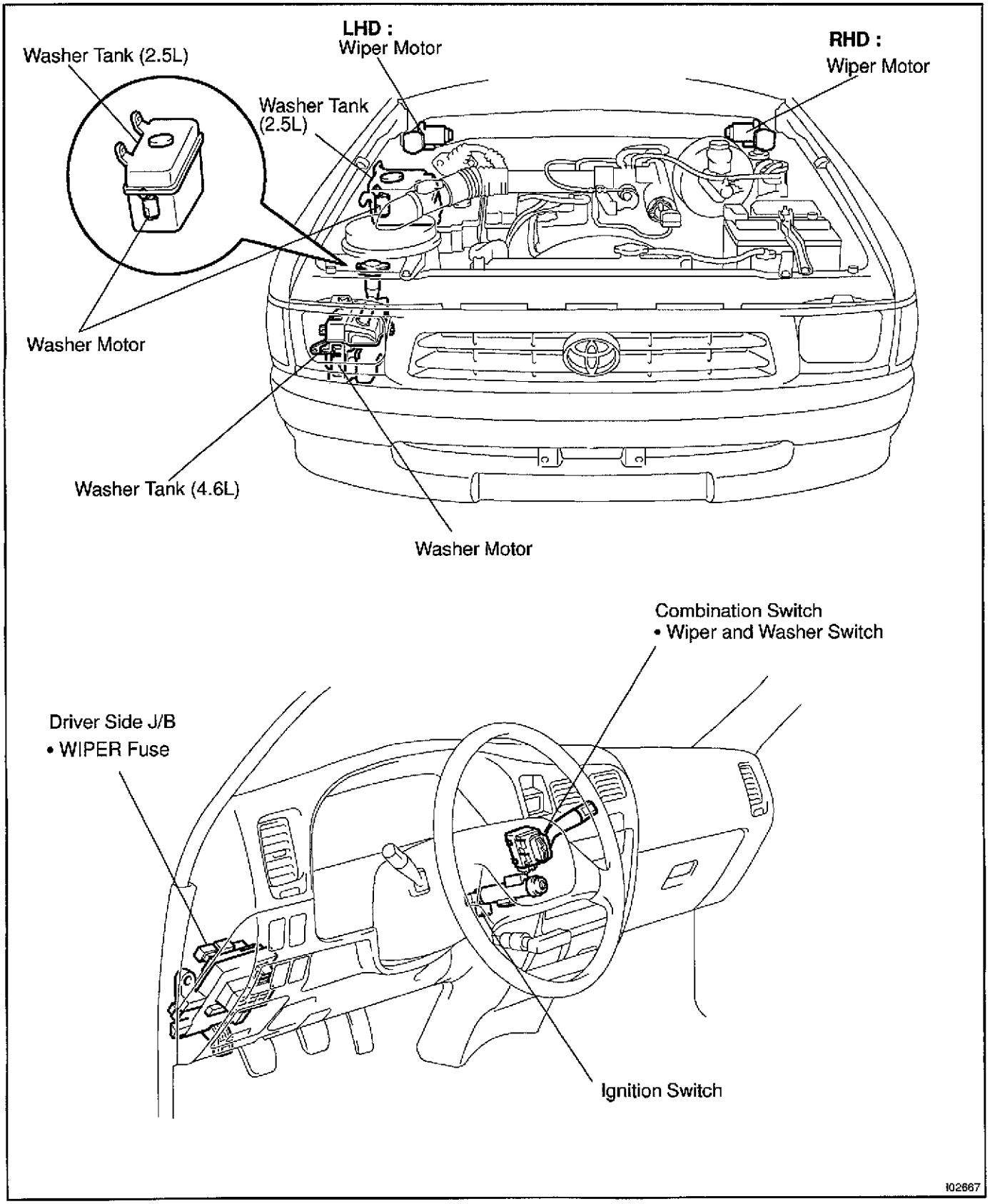
WIPER AND WASHER SYSTEM

LOCATION

BE099-01



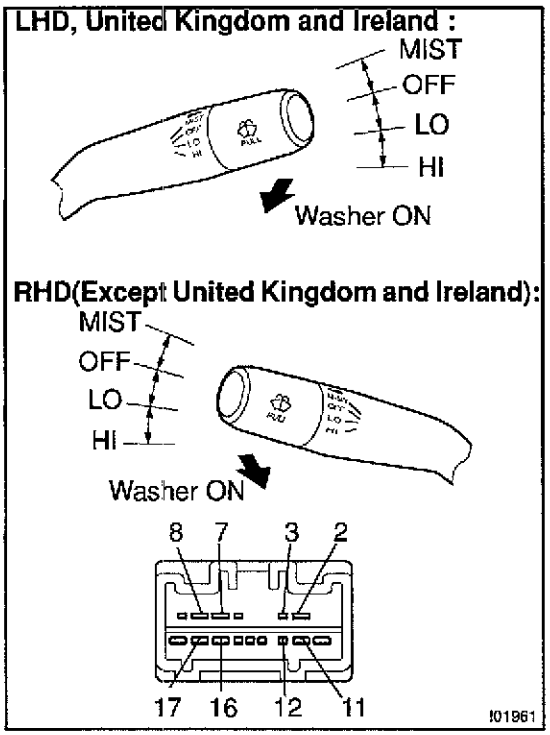
BE05A-01

INSPECTION

1. **w/ MIST :**

INSPECT WIPER AND WASHER SWITCH CONTINUITY

LHD, United Kingdom and Ireland :



Switch position	Tester connection	Specified condition
OFF	7 – 16	Continuity
MIST	7 – 17	Continuity
LO	7 – 17	Continuity
HI	8 – 17	Continuity
Washer ON	2 – 11	Continuity

RHD, (Except United Kingdom and Ireland) :

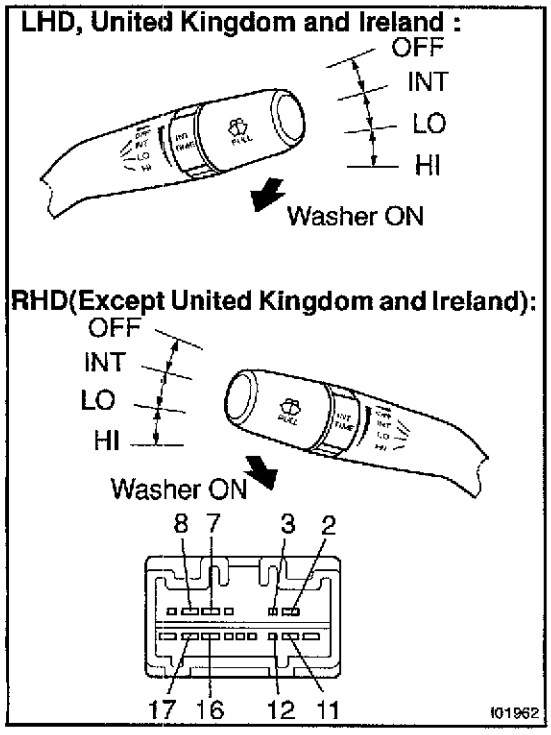
Switch position	Tester connection	Specified condition
OFF	3 – 12	Continuity
MIST	3 – 11	Continuity
LO	3 – 11	Continuity
HI	2 – 11	Continuity
Washer ON	8 – 17	Continuity

If continuity is not as specified, replace the switch.

2. **w/ INTERMITTENT :**

INSPECT WIPER AND WASHER SWITCH CONTINUITY

LHD, United Kingdom and Ireland :

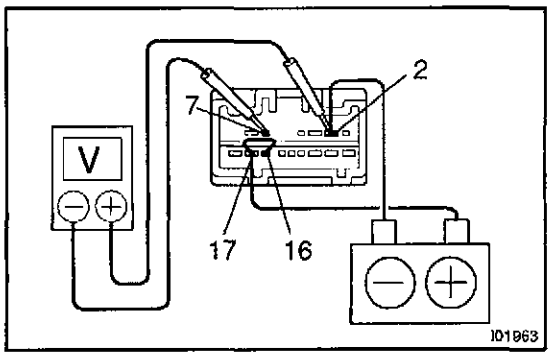


Switch position	Tester connection	Specified condition
OFF	7 – 16	Continuity
INT	7 – 16	Continuity
LO	7 – 17	Continuity
HI	8 – 17	Continuity
Washer ON	2 –11	Continuity

RHD (Except United Kingdom and Ireland) :

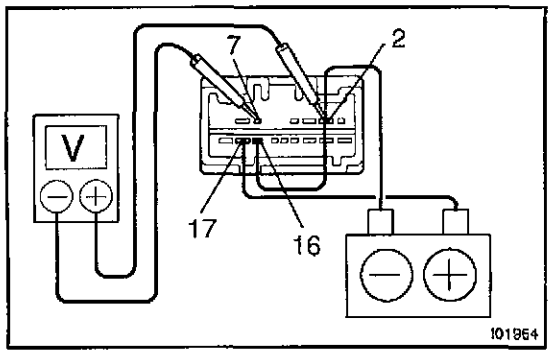
Switch position	Tester connection	Specified condition
OFF	3 – 12	Continuity
INT	3 – 12	Continuity
LO	3 – 11	Continuity
HI	2 – 11	Continuity
Washer ON	8 – 17	Continuity

If continuity is not as specified, replace the switch.



3. LHD, United Kingdom and Ireland : INSPECT INTERMITTENT OPERATION

(a) Turn the wiper switch to INT position.
(b) Turn the intermittent time control switch to FAST position.
(c) Connect the positive (+) lead from the battery to terminal 17 and the negative (–) lead to terminal 2.
(d) Connect the positive (+) lead from the voltmeter to terminal 7 and the negative (–) lead to terminal 2, check that the meter needle indicates battery positive voltage.

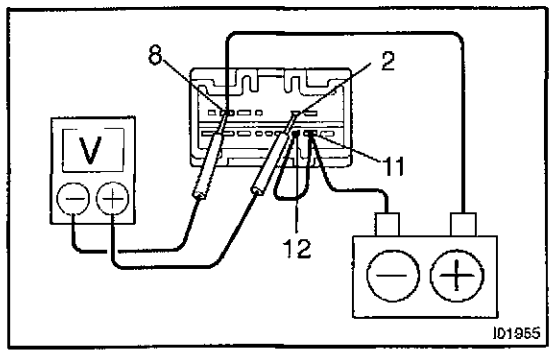


(e) Connect the terminals 16 and 17.
(f) Disconnect the terminal 17 and connect it to the terminal 2.
(g) Check that the voltage rises from 0 volt to battery voltage within the time as follows.
(h) Similarly, inspect SLOW position.

INT time control switch position	Voltage
FAST	Approx. 1 – 3 sec. Battery voltage 0 volt
SLOW	Approx. 10 – 15 sec. Battery voltage 0 volt

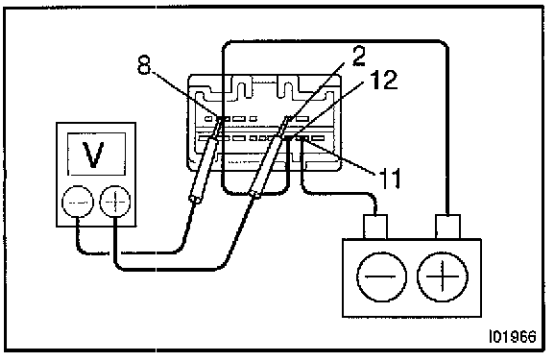
V03883

If operation is not as specified, replace the wiper and washer switch.



4. RHD (Except United Kingdom and Ireland) : INSPECT INTERMITTENT 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 11 and the negative (–) lead to terminal 8.
(d) Connect the positive (+) lead from the voltmeter to terminal 3 and the negative (–) lead to terminal 8. check that the meter needle indicates battery positive voltage.
(e) Connect the terminals 11 and 12.

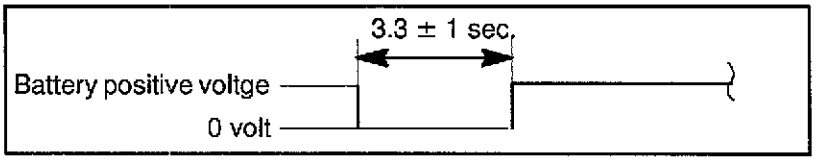


(f) Disconnect the terminal 11 and connect it to the terminal 8.

(g) Check that the voltage rises from 0 volt to battery voltage within the time as follows.

(h) Variable Type :
Similarly, inspect SLOW position.

Non Variable Type :

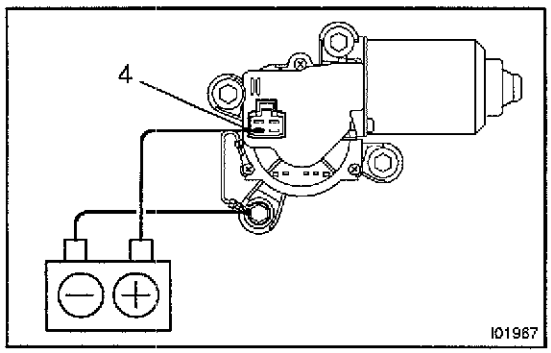


Variable Type :

INT time control switch position	Voltage
FAST	Approx. 1 – 3 sec. Battery voltage 0 volt
SLOW	Approx. 10 – 15 sec. Battery voltage 0 volt

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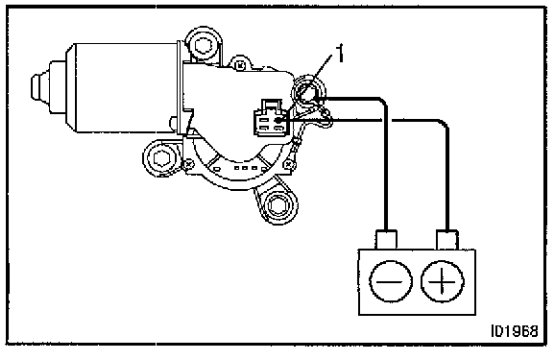
If operation is not as specified, replace the switch.



5. Low Speed Operation :
INSPECT MOTOR OPERATION

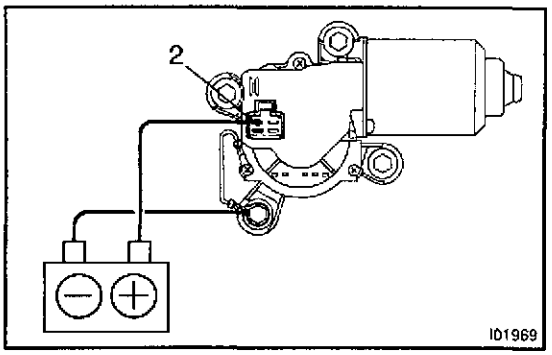
(a) LHD :
Connect the positive (+) lead from the battery to terminal 4 and the negative (–) lead to terminal motor body, and check that the motor operates at low speed.

If operation is not as specified, replace the motor.



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

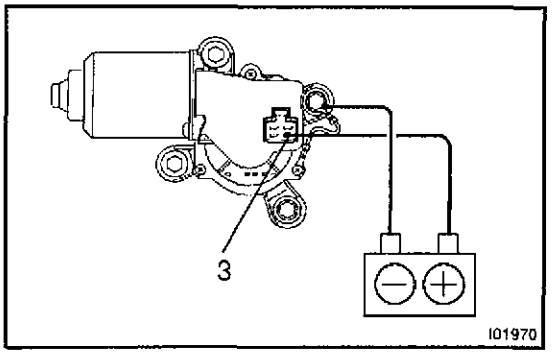
If operation is not as specified, replace the motor.



6. High Speed Operation :
INSPECT MOTOR OPERATION

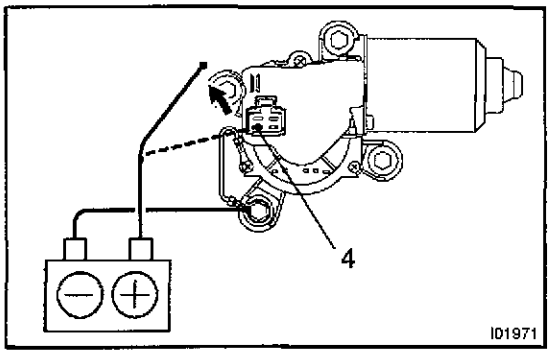
(a) LHD :
Connect the positive (+) lead from the battery to terminal 2 and the negative (–) lead to terminal motor body, and check that the motor operates at high speed.

If operation is not as specified, replace the motor.



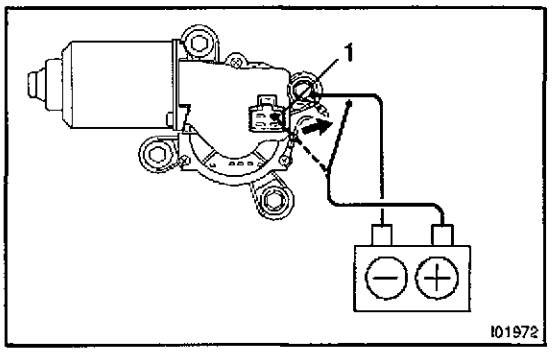
(b) RHD :
Connect the positive (+) lead from the battery to terminal 3 and the negative (–) lead to terminal motor body, and check that the motor operates at high speed.

If operation is not as specified, replace the motor.

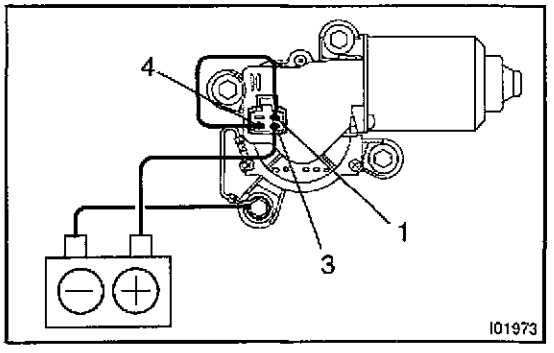


7. Stopping at Stop Position Operation :
INSPECT WIPER MOTOR OPERATION

(a) LHD :
Operate the motor at low speed and stop the motor operation anywhere by disconnecting positive (+) lead from terminal 4.

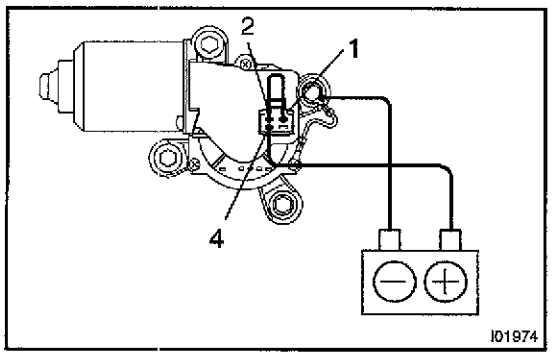


(b) RHD :
Operate the motor at low speed and stop the motor operation anywhere by disconnecting positive (+) lead from terminal 1.



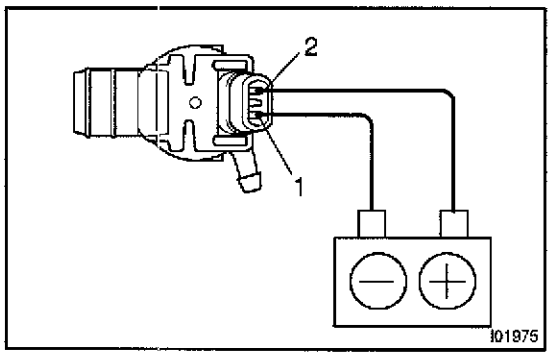
(c) LHD :
Connect terminals 1 and 4.
Connect the positive (+) lead from the battery to terminal 3 and negative (–) lead to terminal motor body, and check that the motor stops running at the stop position after the motor operates again.

If operation is not as specified, replace the motor.



(d) RHD :
Connect terminals 1 and 2
Connect the positive (+) lead from the battery to terminal 4 and negative (–) lead to terminal motor body, 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.



8. INSPECT WASHER MOTOR OPERATION

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.