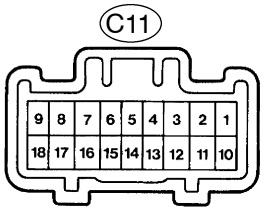
660IS–01

INSPECTION

Connector Front View:



I30405

1. WINDSHIELD WIPER SWITCH ASSY

(a) Continuity Check

(1) Measure the resistance according to the value(s) in the table below.

Standard:

Front Wiper Switch

Tester connection	Switch operation	Specified condition
3 (+1) – 11 (+B)	MIST	Below 1 Ω
3 (+1) – 12 (+S)	OFF	Below 1 Ω
3 (+1) – 12 (+S)	INT	Below 1 Ω
3 (+1) – 11 (+B)	LO	Below 1 Ω
2 (+2) – 11 (+B)	HI	Below 1 Ω

Front Washer Switch

Tester connection	Switch operation	Specified condition
8 (EW) – 17 (WF)	OFF	10 kΩ or higher
8 (EW) – 17 (WF)	ON	Below 1 Ω

Rear Wiper and Washer Switch

Tester connection	Switch operation	Specified condition
8 (EW) – 16 (WR)	WASH (Rear wiper switch OFF side)	Below 1 Ω
8 (EW) – 15 (C1R) 8 (EW) – 16 (WR) 8 (EW) – 18 (+1R)	OFF	10 kΩ or higher
8 (EW) – 15 (C1R)	INT	Below 1 Ω
8 (EW) – 18 (+1R)	ON	Below 1 Ω
8 (EW) – 16 (WR) 8 (EW) – 18 (+1R)	WASH (Rear wiper switch OFF side)	Below 1 Ω

(b) Intermittent Operation Check

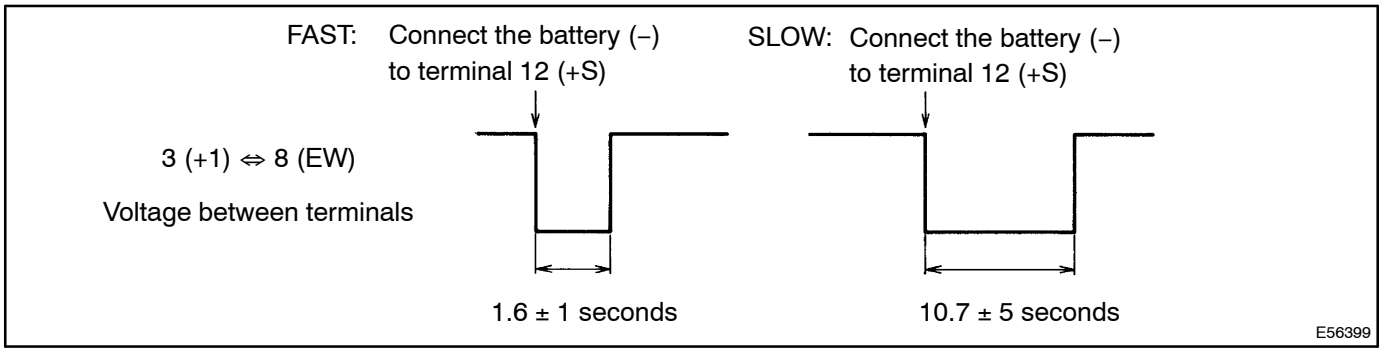
(1) Connect the voltmeter (+) terminal to terminal 3 (+1) of the connector, the voltmeter (–) terminals to terminal 8 (EW) of the connector.

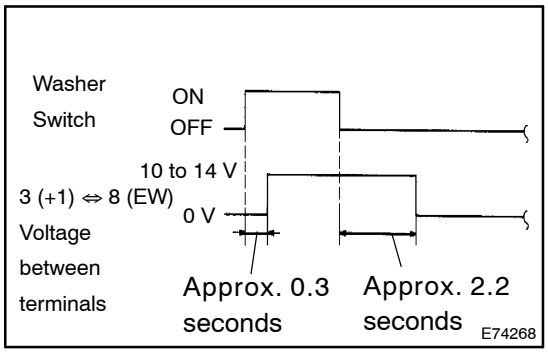
(2) Connect the battery (+) to terminal 11 (+B) of the connector, the battery (–) to terminals 8 (EW) and 12 (+S) of the connector.

(3) Turn the wiper switch to INT.

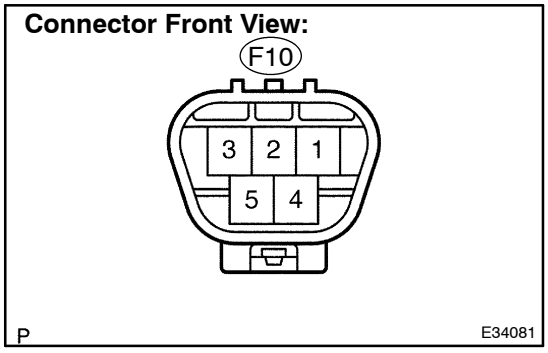
(4) Connect the battery (+) to terminal 12 (+S) of the connector for 5 seconds.

(5) Connect the battery (–) to terminal 12 (+S) of the connector. Operate the intermittent wiper relay and check voltage between terminals 3 (+1) and 8 (EW).





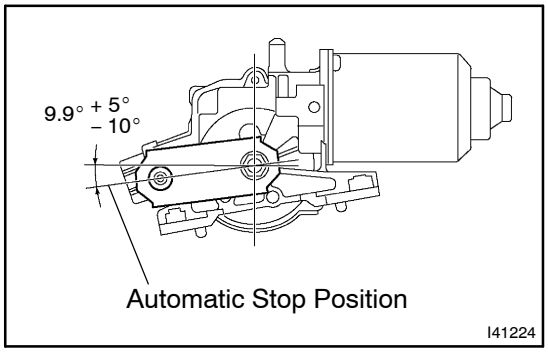
(c) Operation Check (Front Wiper)
(1) Turn the wiper switch OFF.
(2) Connect the positive (+) lead from the battery to terminal 11 (+B) and the negative (–) lead to terminals 8 (EW) and 12 (+S).
(3) Connect the positive (+) lead from the voltmeter to terminal 3 (+1) and the negative (–) lead to terminal 8 (EW).Turn the washer switch ON and OFF and check voltage between terminals 3 (+1) and 2 (EW).



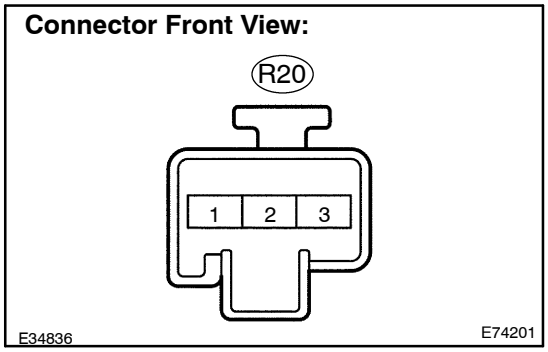
2. WINDSHIELD WIPER MOTOR ASSY

(a) LO Operation Check
(1) Connect the positive (+) lead from the battery to terminal 5 (+1) and the negative (–) lead to terminal 4 (E), check that the motor operates at low speed.

(b) HI Operation Check
(1) Connect the positive (+) lead from the battery to terminal 3 (+2) and the negative (–) lead to terminal 4 (E), and check that the motor operates at high speed.



(c) Automatic Stop Operation Check
(1) Connect the positive (+) lead from the battery to terminal 5 (+1) and the negative (–) lead to terminal 4 (E), and operate the motor at low speed and stop the motor operation anywhere except at the stop position by disconnecting positive (+) lead from terminal 5 (+1).
(2) Connect terminals 5 (+1) and 1 (S).
(3) Connect the positive (+) lead from the battery to terminal 2 (B), and check that the motor stops running at the stop position after the motor operates again.



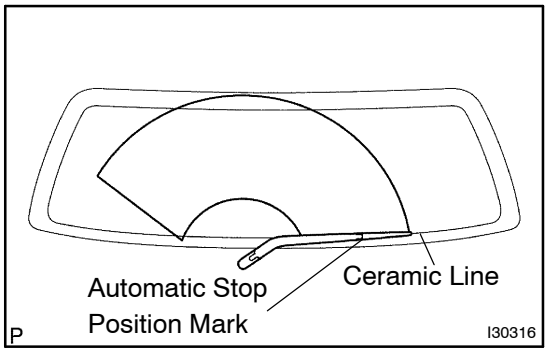
3. REAR WIPER MOTOR ASSY

(a) Operation Check

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

NOTICE:

The body ground should be connected.



(b) Automatic Stop Position Operation Check

(1) Connect the positive (+) lead from the battery to terminal 1 (+B) and the negative (–) lead to terminal 3 (LS).

NOTICE:

The body ground should be connected.

(2) With the motor being rotated, disconnect terminal 1 (+B) and terminal 3 (LS) to stop the motor operation at any position except the automatic stop position.

(3) Connect the positive (+) lead from the battery to terminal 1 (+B), and check that the motor is restarted and automatically stopped.

NOTICE:

The body ground should be connected.