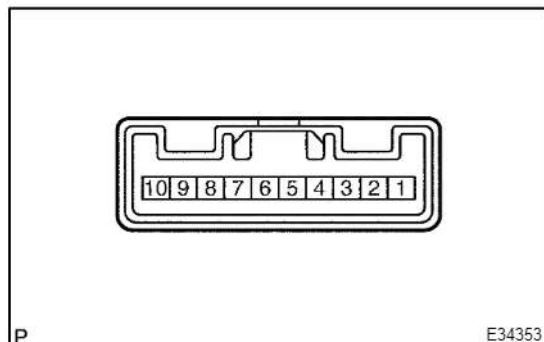


INSPECTION



1. WINDSHIELD WIPER SWITCH ASSY

(a) Continuity Check

- (1) Check the continuity of each terminal of the connector.

Front Wiper Switch

Standard:

Switch position	Tester connection	Specified condition
MIST	7 (+1) – 8 (+B)	Continuity
OFF	6 (+S) – 7 (+1)	Continuity
INT	6 (+S) – 7 (+1)	Continuity
LO	7 (+1) – 8 (+B)	Continuity
HI	8 (+B) – 9 (+2)	Continuity

Front Washer Switch

Standard:

Switch position	Tester connection	Specified condition
OFF	–	No continuity
ON	4 (W) – 5 (EW)	Continuity

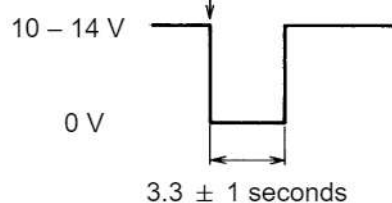
(b) w/o Intermittent time adjust:

Intermittent Operation Check

- (1) Connect the voltmeter (+) terminal to terminal 7 (+1) of the connector, the voltmeter (–) terminal to terminal 5 (EW) of the connector.
- (2) Connect the battery (+) to terminal 8 (+B) of the connector, the battery (–) to terminal 5 (EW) and 6 (+S) of the connector.
- (3) Turn the wiper switch to the INT position.
- (4) Connect the battery (+) to terminal 6 (+S) of the connector for 5 seconds.
- (5) Connect the battery (–) to terminal 6 (+S) of the connector. Operate the intermittent wiper relay and check voltage between terminal 7 (+1) and terminal 5 (EW).

7 (+1) $\Leftrightarrow$ 5 (EW)
Voltage between terminals

Connect the battery (–) to terminal 6 (+S)

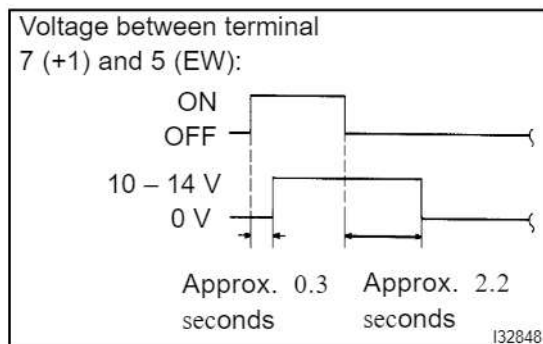
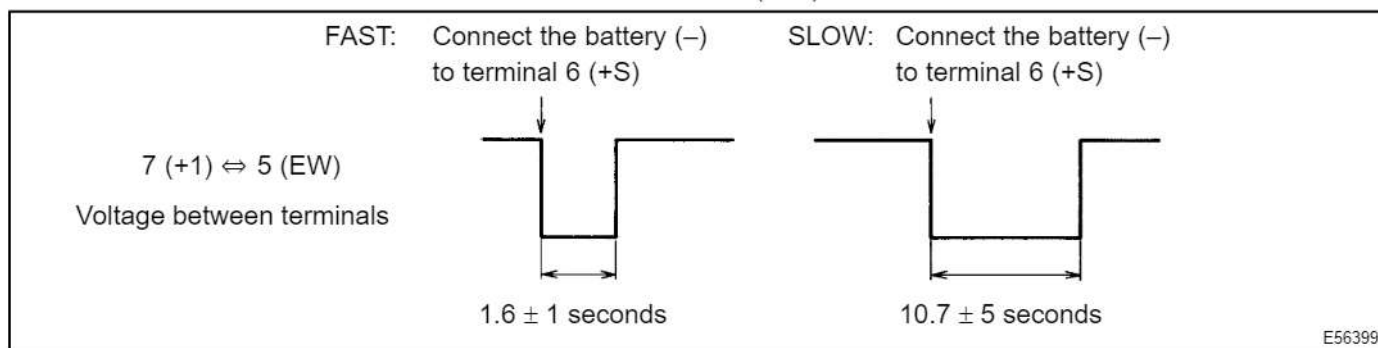


I32847

(c) w/ Intermittent time adjust:

Intermittent Operation Check

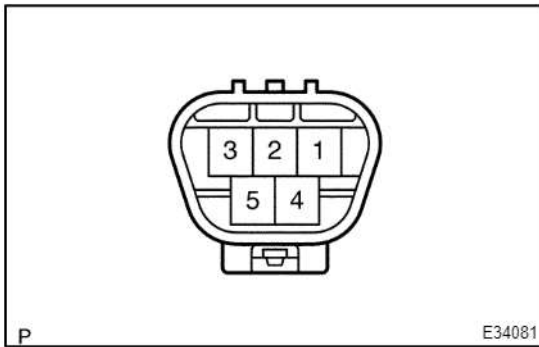
- (1) Connect the voltmeter (+) terminal to terminal 7 (+1) of the connector, the voltmeter (–) terminal to terminal 5 (EW) of the connector.
- (2) Connect the battery (+) to terminal 8 (+B) of the connector, the battery (–) to terminal 5 (EW) and 6 (+S) of the connector.
- (3) Turn the wiper switch to the INT position.
- (4) Connect the battery (+) to terminal 6 (+S) of the connector for 5 seconds.
- (5) Connect the battery (–) to terminal 6 (+S) of the connector. Operate the intermittent wiper relay and check voltage between terminal 7 (+1) and terminal 5 (EW).



(d) Operation Check (Washer switch)

- (1) Turn the wiper switch to the OFF position.
- (2) Connect the battery (+) to terminal 8 (+B) of the connector, the battery (–) to terminal 6 (+S) and 5 (EW) of the connector.
- (3) Connect the voltmeter (+) terminal to terminal 7 (+1) of the connector, the voltmeter (–) terminal to terminal 5 (EW) of the connector. Turn the washer switch to ON and OFF and check voltage between terminal 7 (+1) and terminal 5 (EW).

Standard: See the illustration.



2. WINDSHIELD WIPER MOTOR ASSY

(a) LO Operation Check

- (1) Connect the battery (+) to terminal 1 (+1) of the connector, the battery (–) to terminal 5 (E) of the connector, and check that the motor operates at low speed (LO).

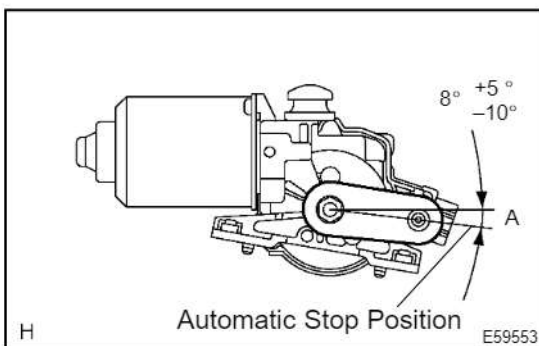
(b) HI Operation Check

- (1) Connect the battery (+) to terminal 4 (+2) of the connector, the battery (–) to terminal 5 (E) of the connector, and check that the motor operates at high speed (HI).

(c) Automatic Stop Operation Check

- (1) Connect the battery (+) to terminal 1 (+1) of the connector, the battery (–) to terminal 5 (E) of the connector. With the motor being rotated at low speed (LO), disconnect terminal 1 (+1) to stop the wiper motor operation at any position except the automatic stop position.
- (2) Connect terminal 1 (+1) and 3 (S), and the battery (+) to terminal 2 (B) to restart the motor operation at low speed.

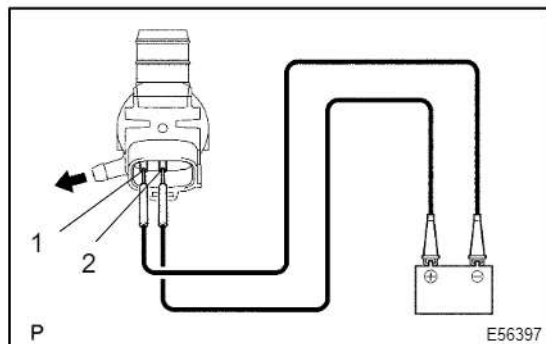
SST 09843-18040



- (3) Check that the automatic stop position is correct.

Standard: See the illustration.

ON-VEHICLE INSPECTION



1. WASHER MOTOR

(a) Operation Check

- (1) Pour the water into the washer jar with the washer motor and the pump installed to the washer jar assy.
- (2) Connect the battery (+) to terminal 2 of the washer motor and the pump, the battery (-) to terminal 1 of the washer motor and the pump. Check that the water comes out from the washer jar.

WIPER AND WASHER SYSTEM

6806Y-01

PROBLEM SYMPTOMS TABLE

1. WIPER AND WASHER SYSTEM

Symptom	Suspect Area	See page
Front wipers do not operate.	1. IG1 Relay 2. WIPER Fuse 3. Front Wiper Switch 4. Wire Harness	– – 66-3 –
Front wipers do not operate in LO or HI.	1. Front Wiper Switch 2. Front Wiper Motor 3. Wire Harness	66-3 66-3 –
Front wipers do not operate in INT.	1. Front Wiper Switch 2. Front Wiper Motor 3. Wire Harness	66-3 66-3 –
Front washer motor does not operate.	1. WIPER Fuse 2. Front Washer Switch 3. Front Washer Motor 4. Wire Harness	– 66-3 66-2 –
Front wipers do not operate when washer switch is in the ON position.	1. Front Wiper Switch 2. Front Wiper Motor 3. Wire Harness	66-3 66-3 –
Washer fluid does not operate.	1. Washer Hose and Nozzle	–
• When the wiper switch is OFF, the wiper blade does not retract or the retract position is wrong. • The wiper blade is in contact with the body.	1. Wiper Motor (wiper arm and blade set position)	66-6

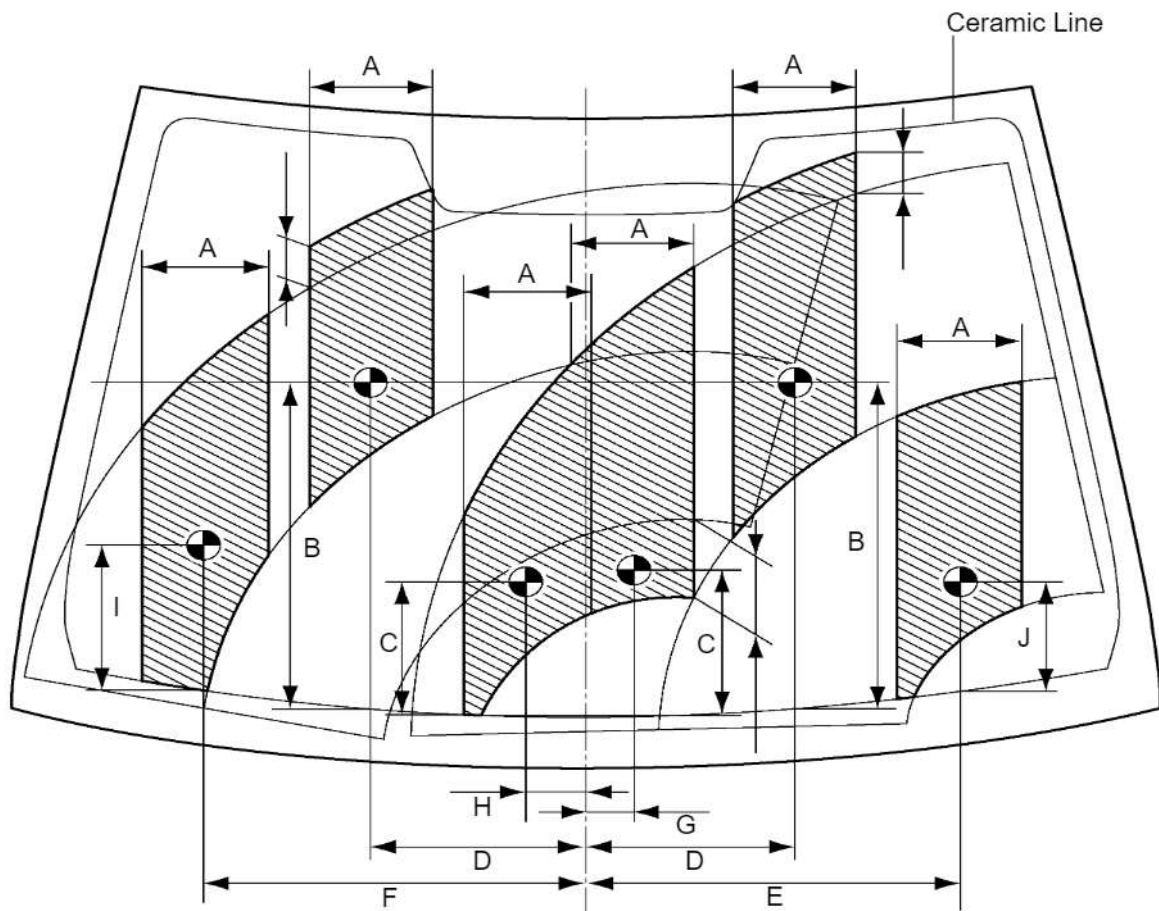
WASHER NOZZLE

ADJUSTMENT

68074-01

1. INSPECT WASHER NOZZLE

- (a) With the engine running, check that the point where the washer fluid hits the windshield and the rear window is within the range indicated by the hatched line.

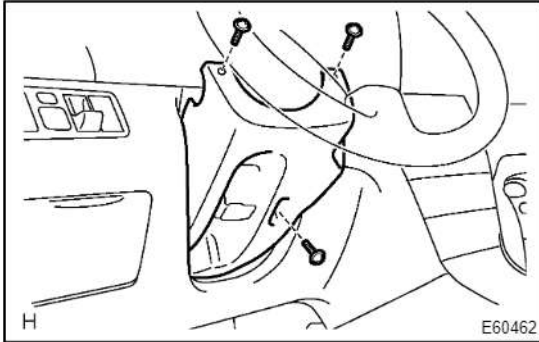


- A:150mm(5.91in.)
 B:440mm(17.32in.)
 C:180mm(7.09in.)
 D:260mm(10.24in.)
 E:455mm(17.91in.)
 F:465mm(18.31in.)
 G:65mm(2.56in.)
 H:70mm(2.76in.)
 I:200mm(7.87in.)
 J:155mm(6.10in.)

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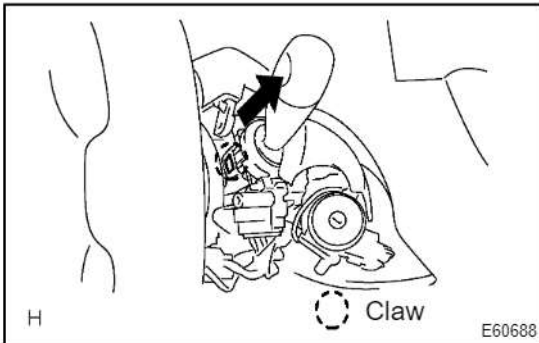
WINDSHIELD WIPER SWITCH ASSY REPLACEMENT

68073-01



1. REMOVE STEERING COLUMN COVER LWR

- (a) Remove 3 screws and steering column cover LWR.



2. REMOVE WINDSHIELD WIPER SWITCH ASSY

- (a) Disconnect the connector of the windshield wiper switch.
(b) Release the claw and pull out the windshield wiper switch assy as shown in the illustration.

NOTICE:

Pressing the claw hard breaks the claw.

WINDSHIELD WIPER MOTOR ASSY REPLACEMENT

68071-01

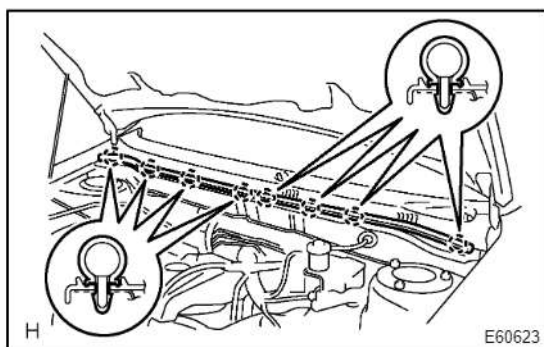
1. REMOVE WINDSHIELD WIPER ARM COVER

2. REMOVE FR WIPER ARM RH

- (a) Operate the wiper and stop the windshield wiper motor assy at the automatic stop position.
- (b) Remove a nut and FR wiper arm RH.

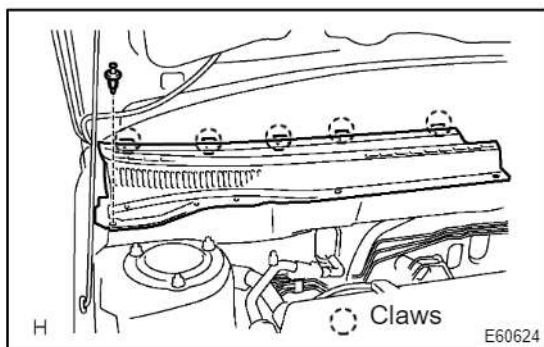
3. REMOVE FR WIPER ARM LH

- (a) Remove a nut and FR wiper arm LH.



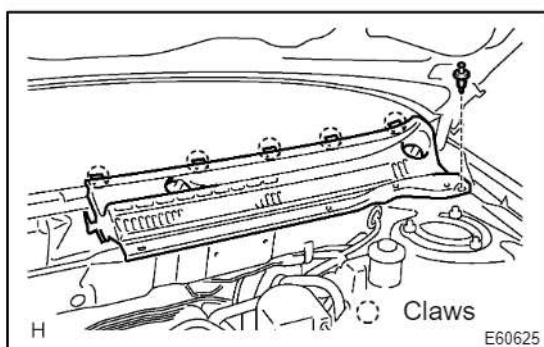
4. REMOVE HOOD TO COWL TOP SEAL

- (a) Using a clipremover, disengage the meshing of 8 clips and remove the hood to cowl top seal.



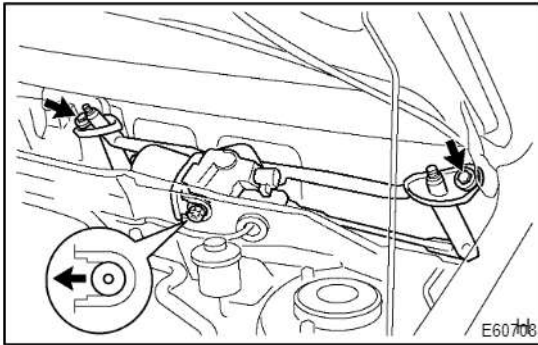
5. REMOVE COWL TOP VENTILATOR LOUVER RH

- (a) Remove a clip and release the 5 claws, and remove the cowl top ventilator louver RH.



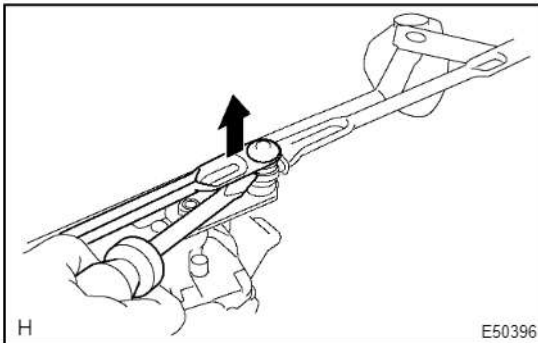
6. REMOVE COWL TOP VENTILATOR LOUVER LH

- (a) Remove a clip and release the 5 claws, and remove the cowl top ventilator louver LH.



7. REMOVE WIPER LINK ASSY

- (a) Disconnect the connector.
- (b) Remove the 2 bolts.
- (c) Slide the wiper link assy to vehicle's passengers side. Disengage the meshing of the rubber pin and remove the wiper link assy.

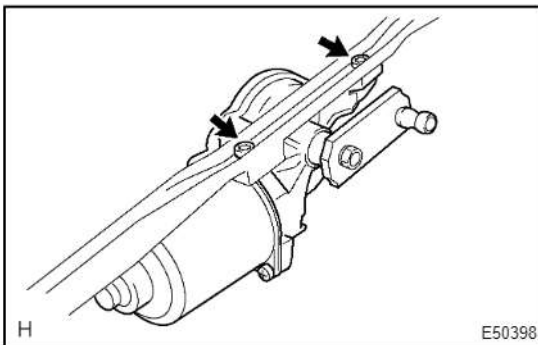
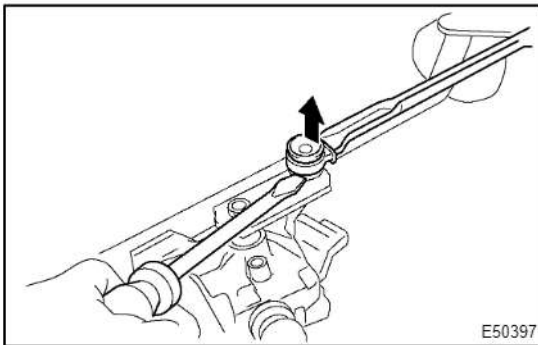


8. REMOVE WINDSHIELD WIPER MOTOR ASSY

- (a) Using a screwdriver and disengage the meshing of 2 rods at the clank arm pivot of the windshield wiper motor assy.

HINT:

Tape the screwdriver tip before use.

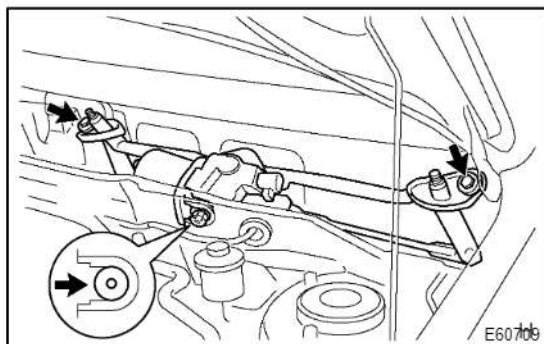


- (b) Remove 2 torx bolts and windshield wiper motor assy.

9. INSTALL WINDSHIELD WIPER MOTOR ASSY

- (a) Apply MP grease to the clank arm pivot of the windshield wiper motor assy.
- (b) Using 2 torx bolts, install the windshield wiper motor assy to the windshield wiper link assy.

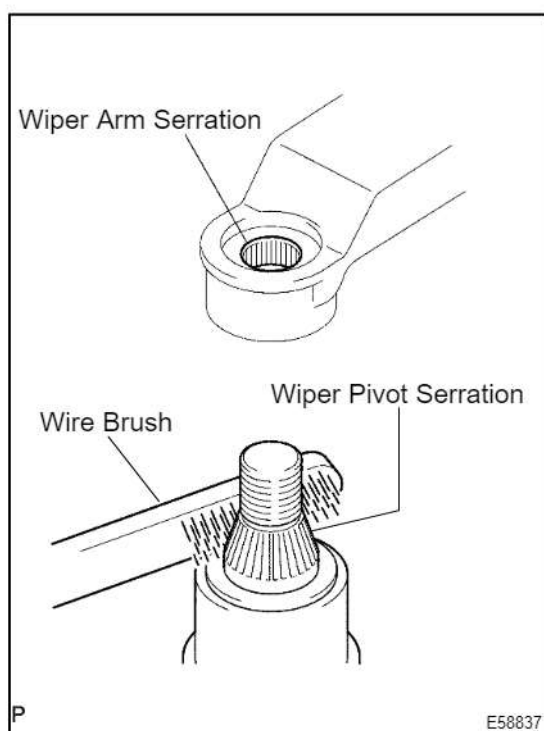
Torque: 7.5 N·m (76 kgf·cm, 66 in.·lbf)

**10. INSTALL WIPER LINK ASSY**

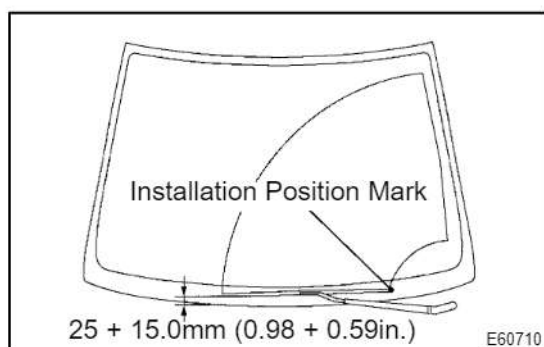
- (a) Install the meshing of the rubber pin.
 - (b) Install the windshield wiper link assy. with the 2 bolts.
- Torque: 5.5 N·m (56 kgf·cm, 49 in.·lbf)**
- (c) Connect the connector.

11. INSTALL FR WIPER ARM LH

- (a) Operate the wiper, and stop the windshield wiper motor assy at the automatic stop position.



- (b) Scrape off the serration part of the wiper arm with a round file or equivalent.
- (c) Clean the wiper pivot serration with the wire brush.



- (d) Install the front wiper arm LH with a nut at the position as shown in the illustration.

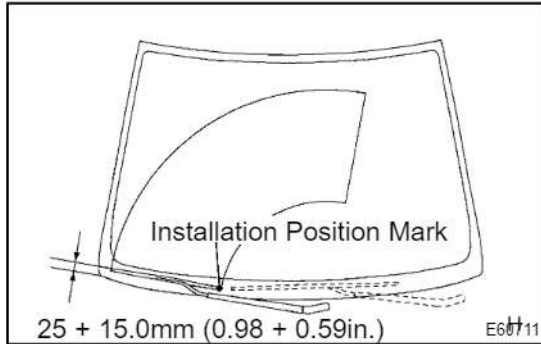
Torque: 20.5 N·m (209 kgf·cm, 15 ft·lbf)

HINT:

Hold down the arm hinge with hand to fasten a nut.

12. INSTALL FR WIPER ARM RH

- (a) Scrape off the serration part of the wiper arm with a round file or equivalent.
- (b) Clean the wiper pivot serration with the wire brush.



- (c) Install the front wiper arm RH with a nut to the position shown in the illustration.

Torque: 20.5 N·m (209 kgf·cm, 15 ft·lbf)

HINT:

Hold down the arm hinge with hand to fasten a nut.

- (d) Operate the wiper while running the water or the washer fluid over the window, and check the wiping condition and that the rear wiper does not hit against the vehicle body.

WIPER RUBBER LH

REPLACEMENT

68072-01

1. REMOVE FR WIPER BLADE LH

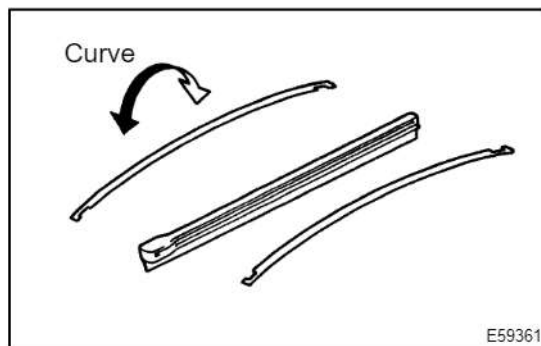
- (a) Remove the front wiper blade LH from the front wiper arm LH.

NOTICE:

Do not fold down the front wiper arm with the front wiper blade being removed from it.

2. REMOVE WIPER RUBBER LH

- (a) Remove the front wiper rubber LH from the front wiper blade.
(b) Remove the 2 wiper rubber backing plates from the wiper rubber LH.

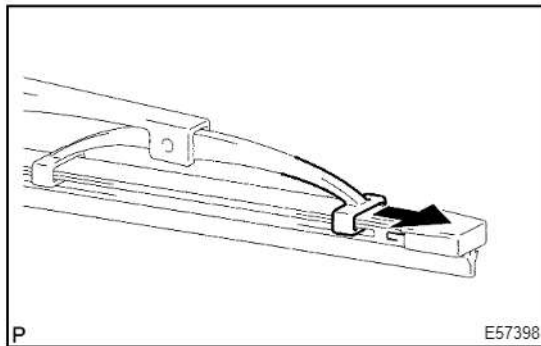


3. INSTALL WIPER RUBBER LH

- (a) Install the 2 wiper rubber backing plates to the wiper rubber LH.

NOTICE:

Be careful to observe and keep direction of curvature for correct replacement.



- (b) Install the wiper rubber LH so that the head part (Larger side) of the wiper rubber faces the arm axle side.

NOTICE:

Push the front wiper blade into the grooves of the wiper rubber to engage them completely.