

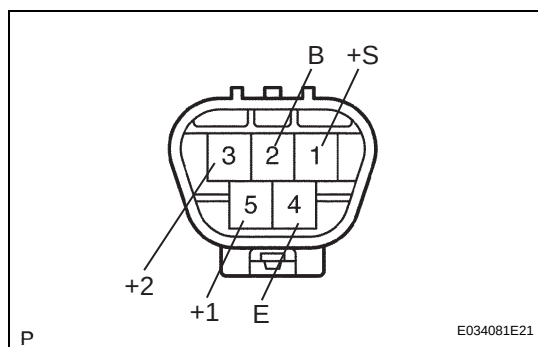
PROBLEM SYMPTOMS TABLE

HINT:

Use the table below to help determine the cause of the problem symptom. The potential causes of the symptoms are listed in order of probability in the "Suspected area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.

Wiper and washer system

Symptom	Suspected area	See page
Front wiper and washer system does not operate	1. Windshield wiper switch	WW-27
	2. Wire harness	-
Front wiper system does not operate in LO or HI	1. WIP fuse	WW-1
	2. Windshield wiper switch	WW-27
	3. Front wiper motor	WW-5
	4. Wire harness	-
Front wiper system does not operate in INT	1. WIP fuse	WW-1
	2. Windshield wiper switch	WW-27
	3. Front wiper motor	WW-5
	4. Wire harness	-
Front washer system does not operate	1. WSH fuse	WW-1
	2. Windshield wiper switch	WW-27
	3. Front washer motor	WW-33
	4. Wire harness	-
Front wiper arms do not return to their original positions when wiper switch is turned off	1. Front wiper motor	WW-5
	2. Wire harness	-
Rear wiper and washer system does not operate	1. Windshield wiper switch	WW-27
	2. Wire harness	-
Rear wiper system does not operate	1. RR WIP fuse	WW-1
	2. Windshield wiper switch	WW-27
	3. Rear wiper motor	WW-20
	4. Wire harness	-
Rear washer system does not operate	1. WSH fuse	WW-1
	2. Windshield wiper switch	WW-27
	3. Rear washer motor	WW-33
	4. Wire harness	-
Rear wiper arms do not return to their original positions when wiper switch is turned off	1. Rear wiper motor	WW-20
	2. Wire harness	-



INSPECTION

1. INSPECT WINDSHIELD WIPER MOTOR ASSEMBLY

(a) Check the LO operation.

- (1) Connect the battery's positive (+) lead to terminal 5 (+1) and the negative (-) lead to terminal 4 (E), and check that the motor operates at low speed (LO).

OK:

Motor operates at low speed (LO).

(b) Check the HI operation.

- (1) Connect the battery's positive (+) lead to terminal 3 (+2) and the negative (-) lead to terminal 4 (E), and check that the motor operates at high speed (HI).

OK:

Motor operates at high speed (HI).

(c) Check the automatic stop operation.

- (1) Connect the battery's positive (+) lead to terminal 5 (+1) and the negative (-) lead to terminal 4 (E). With the motor rotating at low speed (LO), disconnect terminal 5 (+1) to stop the wiper motor operation at any position other than the automatic stop position.
- (2) Using SST, connect terminals 1 (+S) and 5 (+1). Then connect the battery's positive (+) lead to terminal 2 (B) and the negative (-) lead to terminal 4 (E) to restart the motor operation at low speed (LO).

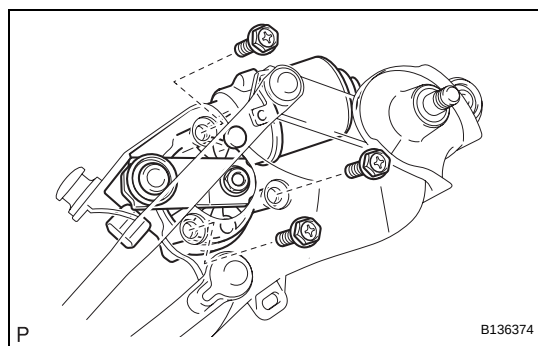
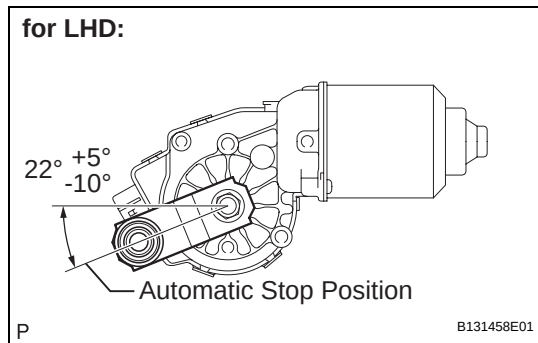
SST 09843-18040

- (3) Check that the motor stops automatically at the automatic stop position.

OK:

Refer to illustration.

If the result is not as specified, replace the motor assembly.

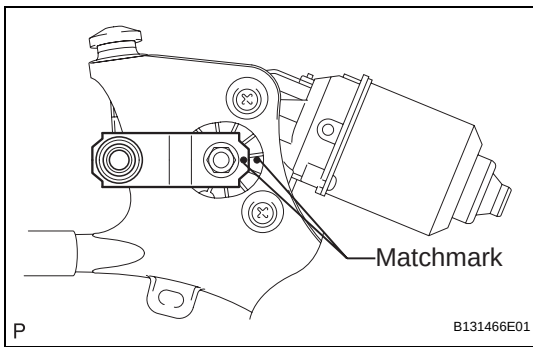


INSTALLATION

1. INSTALL WINDSHIELD WIPER MOTOR ASSEMBLY

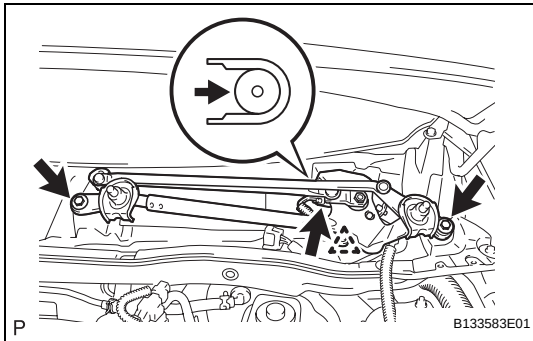
- (a) Install the wiper motor with the 3 bolts.

Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)



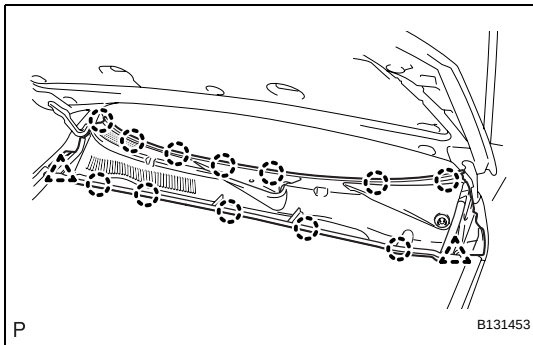
- (b) Align the matchmarks on the crank arm and motor.
- (c) Apply MP grease to the sliding parts of the wiper motor and the rod of the wiper link.
- (d) Connect the rod of the wiper link to the wiper motor.

2. INSTALL WINDSHIELD WIPER MOTOR AND LINK ASSEMBLY



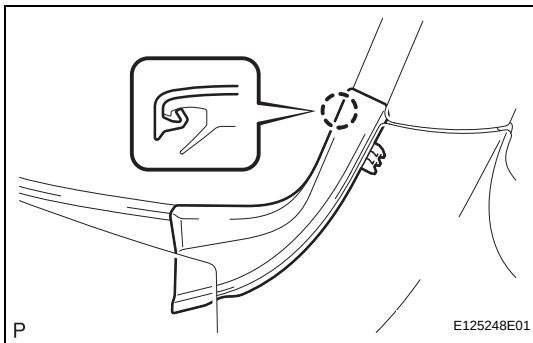
- (a) Move the wiper motor and link in the direction shown by the arrow in the illustration to attach the wiper cushion to the body, and install the wiper motor and link.
- (b) Install the 2 bolts.
Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)
- (c) Connect the connector.

3. INSTALL COWL TOP VENTILATOR LOUVER



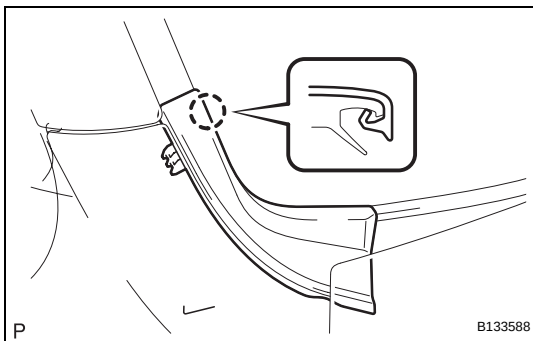
- (a) Attach the 12 claws to install the louver.
- (b) Install the 2 clips.

4. INSTALL FRONT FENDER TO COWL SIDE SEAL LH

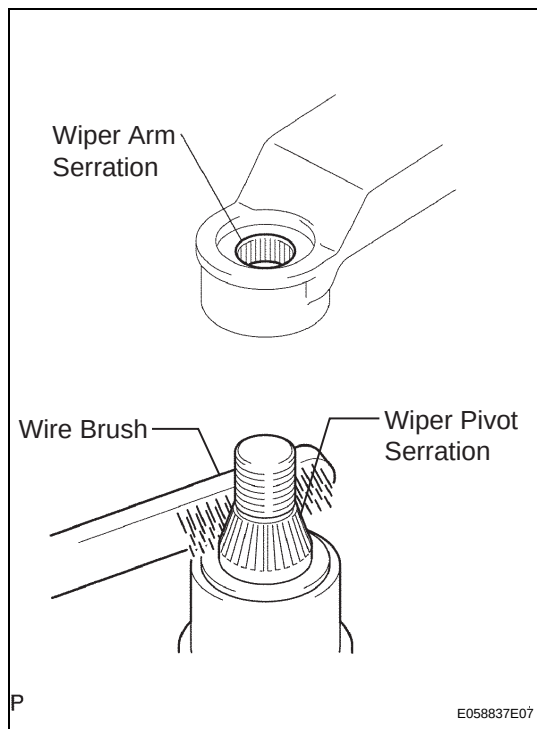


- (a) Attach the claw to install the front fender to cowl side seal.

5. INSTALL FRONT FENDER TO COWL SIDE SEAL RH

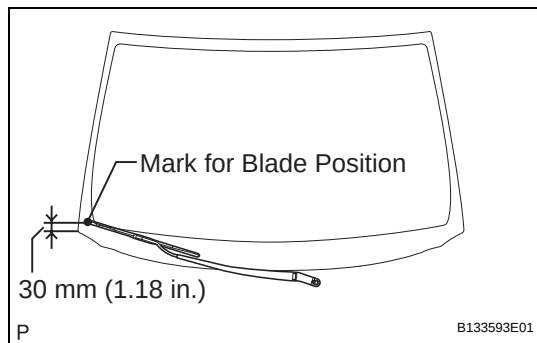


- (a) Attach the claw to install the front fender to cowl side seal.



6. INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY RH

- Stop the wiper motor at the automatic stop position.
- Clean the wiper arm serration with a round file or equivalent.
- Clean the wiper pivot serration with a wire brush.



- Install the arm and blade with the nut. Make sure that the arm and blade comes to the position shown in the illustration.

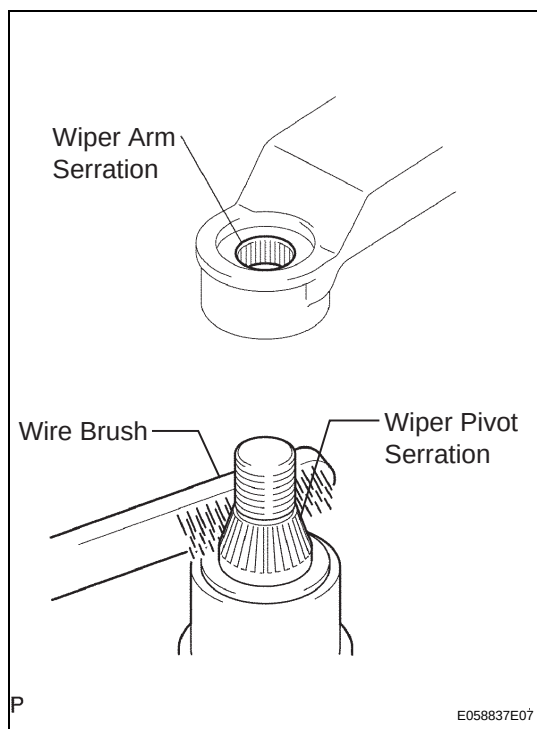
Torque: 21 N*m (214 kgf*cm, 23 ft.*lbf)

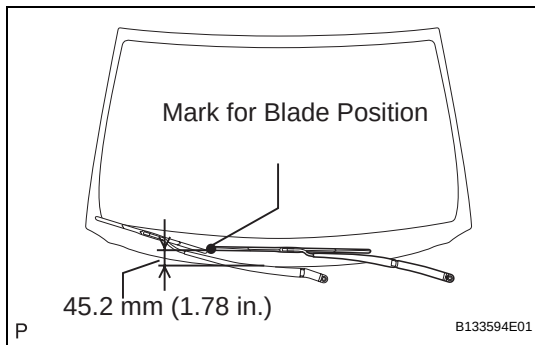
HINT:

Hold down the arm hinge with your hand while tightening the nut.

7. INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY LH

- Clean the wiper arm serration with a round file or equivalent.
- Clean the wiper pivot serration with a wire brush.





- (c) Install the arm and blade with the nut. Make sure that the arm and blade comes to the position shown in the illustration.

Torque: 21 N*m (214 kgf*cm, 23 ft.*lbf)

HINT:

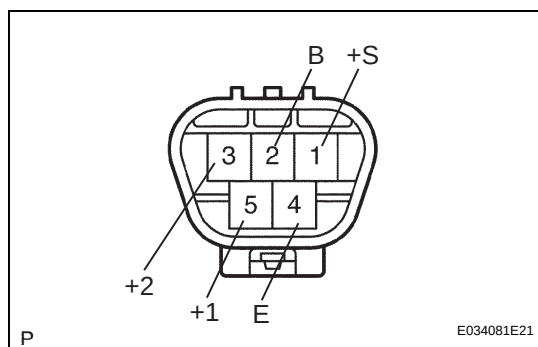
Hold down the arm hinge with your hand while tightening the nut.

- (d) Operate the front wipers while spraying water or washer fluid on the windshield. Ensure that there is no interference between the blades and pillar.

8. INSTALL FRONT WIPER ARM HEAD CAP

- (a) Install the 2 caps.

9. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL



INSPECTION

1. INSPECT WINDSHIELD WIPER MOTOR ASSEMBLY

(a) Check the LO operation.

- (1) Connect the battery's positive (+) lead to terminal 5 (+1) and the negative (-) lead to terminal 4 (E), and check that the motor operates at low speed (LO).

OK:

Motor operates at low speed (LO).

(b) Check the HI operation.

- (1) Connect the battery's positive (+) lead to terminal 3 (+2) and the negative (-) lead to terminal 4 (E), and check that the motor operates at high speed (HI).

OK:

Motor operates at high speed (HI).

(c) Check the automatic stop operation.

- (1) Connect the battery's positive (+) lead to terminal 5 (+1) and the negative (-) lead to terminal 4 (E). With the motor rotating at low speed (LO), disconnect terminal 5 (+1) to stop the wiper motor operation at any position other than the automatic stop position.
- (2) Using SST, connect terminals 1 (+S) and 5 (+1). Then connect the battery's positive (+) lead to terminal 2 (B) and the negative (-) lead to terminal 4 (E) to restart the motor operation at low speed (LO).

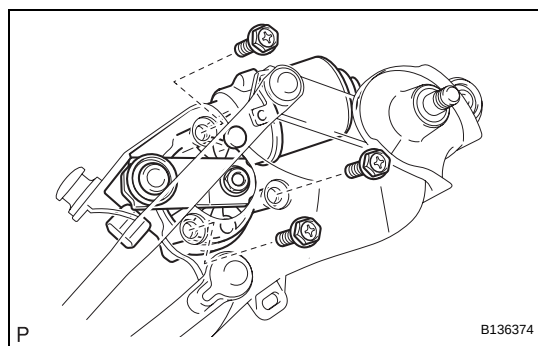
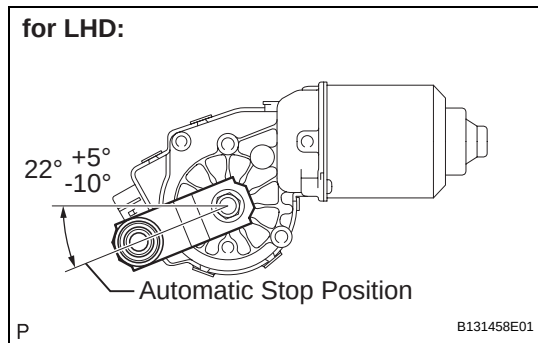
SST 09843-18040

- (3) Check that the motor stops automatically at the automatic stop position.

OK:

Refer to illustration.

If the result is not as specified, replace the motor assembly.

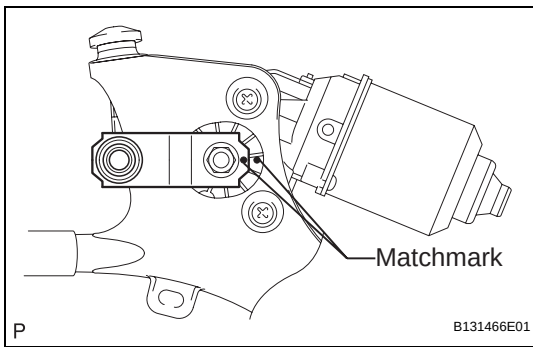


INSTALLATION

1. INSTALL WINDSHIELD WIPER MOTOR ASSEMBLY

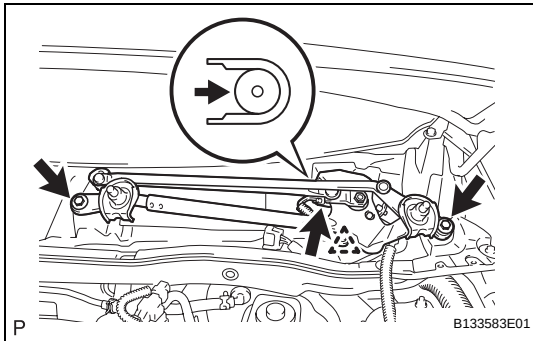
- (a) Install the wiper motor with the 3 bolts.

Torque: 5.4 N*m (55 kgf*cm, 48 in.*lbf)



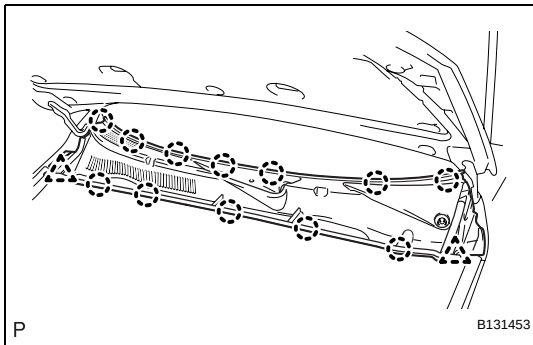
- (b) Align the matchmarks on the crank arm and motor.
- (c) Apply MP grease to the sliding parts of the wiper motor and the rod of the wiper link.
- (d) Connect the rod of the wiper link to the wiper motor.

2. INSTALL WINDSHIELD WIPER MOTOR AND LINK ASSEMBLY



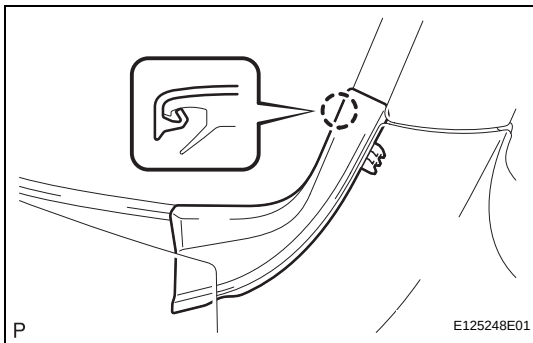
- (a) Move the wiper motor and link in the direction shown by the arrow in the illustration to attach the wiper cushion to the body, and install the wiper motor and link.
- (b) Install the 2 bolts.
Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)
- (c) Connect the connector.

3. INSTALL COWL TOP VENTILATOR LOUVER



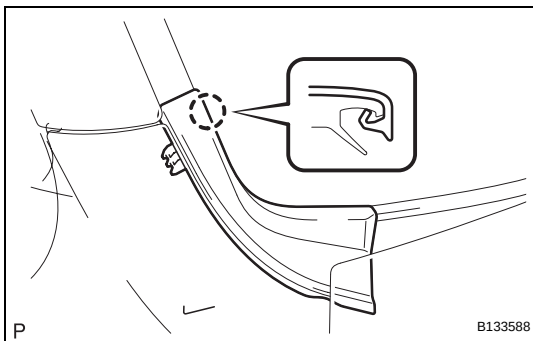
- (a) Attach the 12 claws to install the louver.
- (b) Install the 2 clips.

4. INSTALL FRONT FENDER TO COWL SIDE SEAL LH

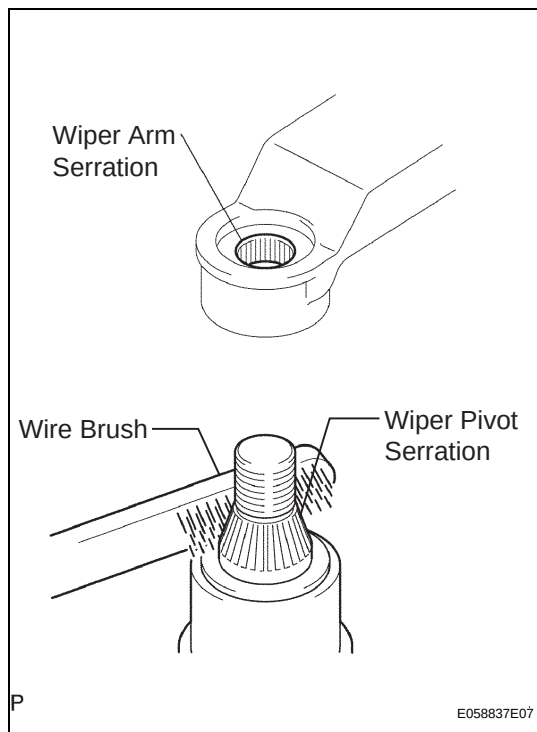


- (a) Attach the claw to install the front fender to cowl side seal.

5. INSTALL FRONT FENDER TO COWL SIDE SEAL RH

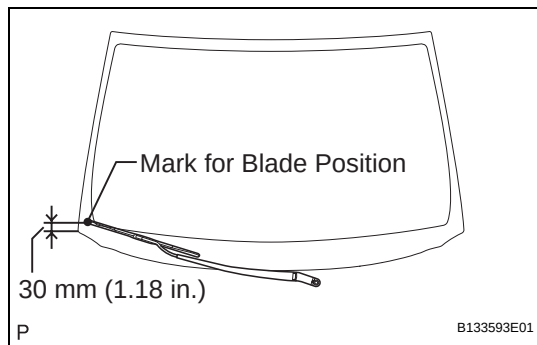


- (a) Attach the claw to install the front fender to cowl side seal.



6. INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY RH

- Stop the wiper motor at the automatic stop position.
- Clean the wiper arm serration with a round file or equivalent.
- Clean the wiper pivot serration with a wire brush.



- Install the arm and blade with the nut. Make sure that the arm and blade comes to the position shown in the illustration.

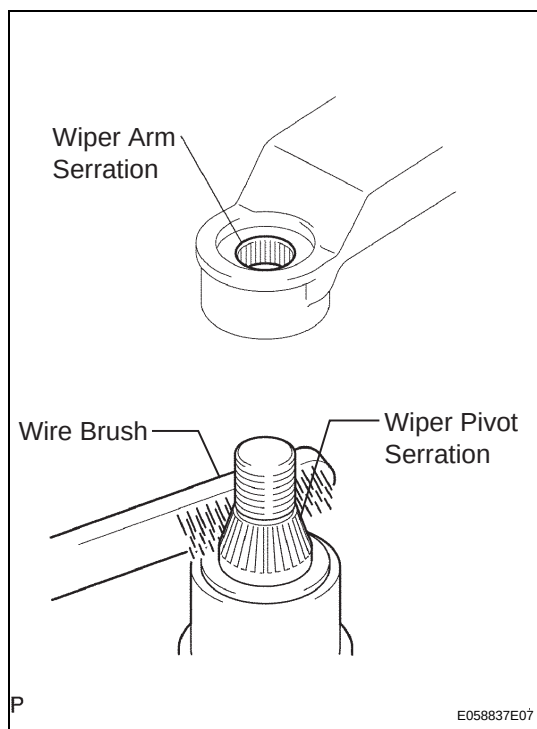
Torque: 21 N*m (214 kgf*cm, 23 ft.*lbf)

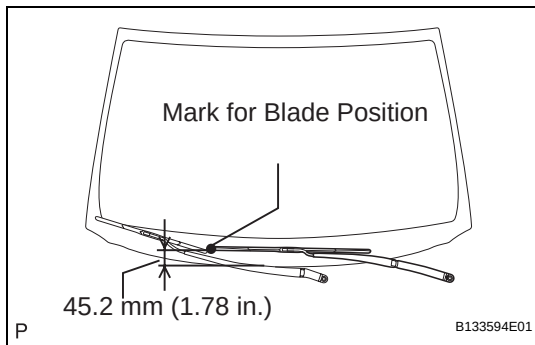
HINT:

Hold down the arm hinge with your hand while tightening the nut.

7. INSTALL FRONT WIPER ARM AND BLADE ASSEMBLY LH

- Clean the wiper arm serration with a round file or equivalent.
- Clean the wiper pivot serration with a wire brush.





- (c) Install the arm and blade with the nut. Make sure that the arm and blade comes to the position shown in the illustration.

Torque: 21 N*m (214 kgf*cm, 23 ft.*lbf)

HINT:

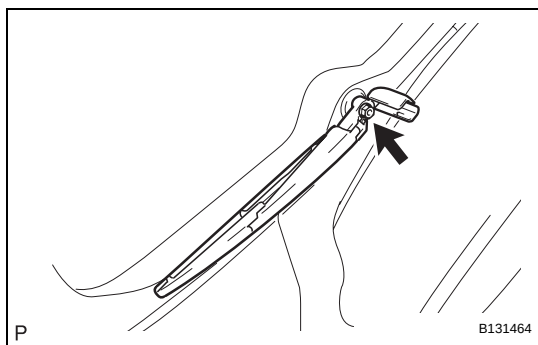
Hold down the arm hinge with your hand while tightening the nut.

- (d) Operate the front wipers while spraying water or washer fluid on the windshield. Ensure that there is no interference between the blades and pillar.

8. INSTALL FRONT WIPER ARM HEAD CAP

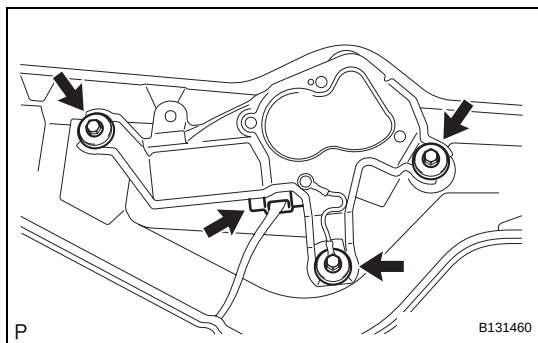
- (a) Install the 2 caps.

9. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL



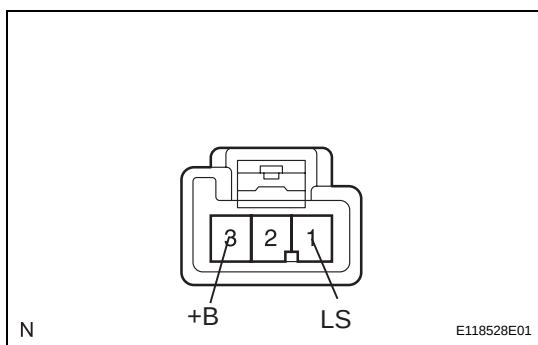
(d) Remove the nut and arm and blade.

7. REMOVE REAR WIPER MOTOR GROMMET



8. REMOVE REAR WIPER MOTOR ASSEMBLY

- Disconnect the connector.
- Remove the 3 bolts and wiper motor.



INSPECTION

1. INSPECT REAR WIPER MOTOR

- Connect the battery's positive (+) lead to terminal 3 (+B) and the negative (-) lead to terminal 1 (LS).
- Check that the rear wiper motor operates.

OK:

Rear wiper motor operates.

NOTICE:

Check that the body ground is connected.

If the result is not as specified, replace the motor.

INSTALLATION

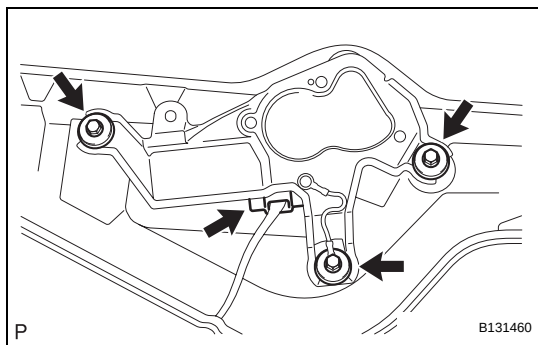
1. INSTALL REAR WIPER MOTOR ASSEMBLY

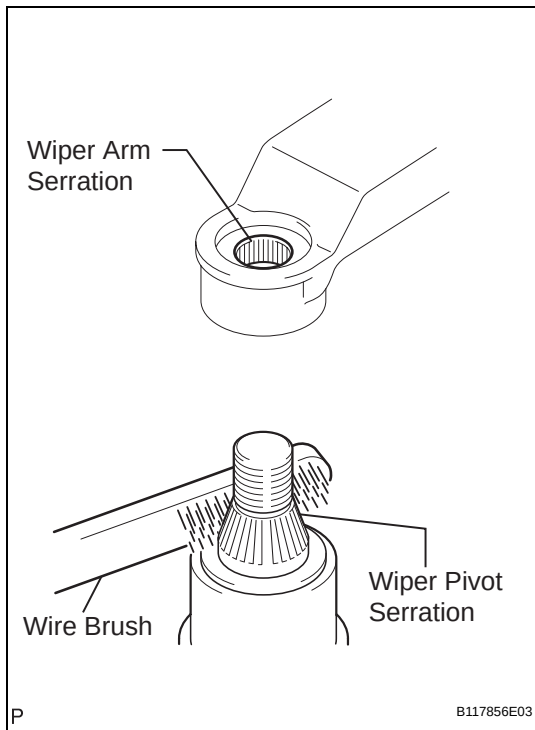
- Install the wiper motor with the 3 bolts.
Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)
- Connect the connector.

2. INSTALL REAR WIPER MOTOR GROMMET

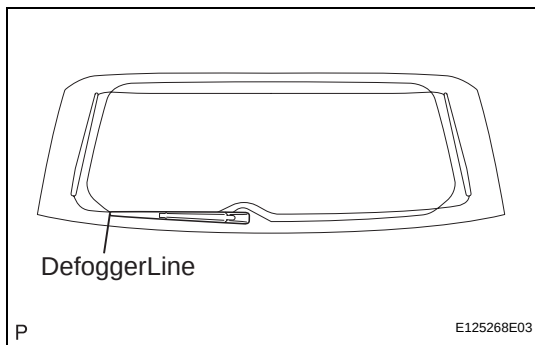
3. INSTALL REAR WIPER ARM AND BLADE ASSEMBLY

- Stop the wiper motor at the automatic stop position.





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

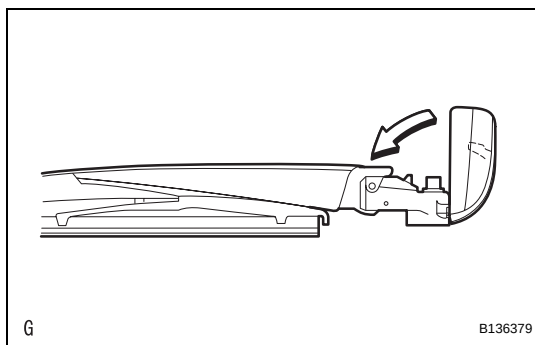


- (d) Install the arm and blade with the nut. Make sure that the arm and blade comes to the position shown in the illustration.

Torque: 5.5 N*m (56 kgf*cm, 49 in.*lbf)

HINT:

- Hold down the arm hinge by hand while tightening the nut.
- Install the arm and blade so that the rear wiper blade is aligned with the ceramic line.



- (e) Install the cap.

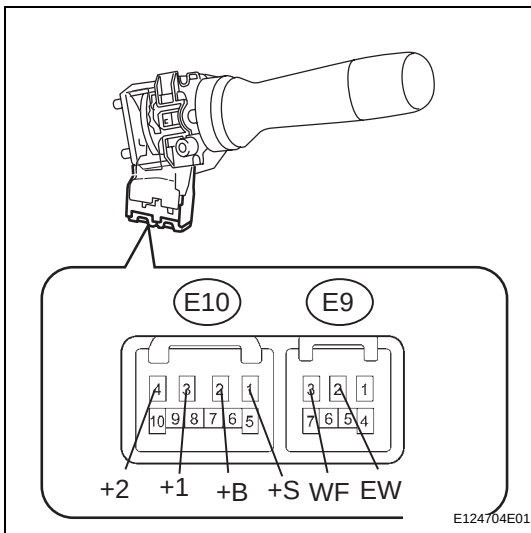
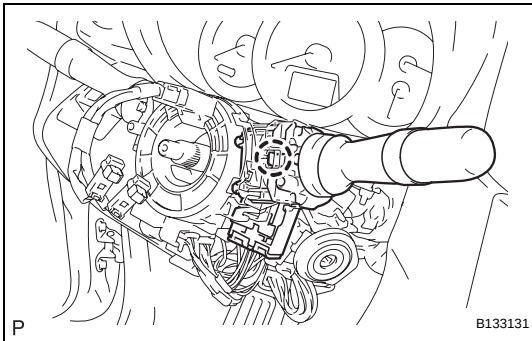
4. **INSTALL BACK DOOR TRIM BOARD ASSEMBLY**
(See page [ED-66](#))
5. **INSTALL BACK DOOR SIDE GARNISH RH** (See page [ED-67](#))
6. **INSTALL BACK DOOR SIDE GARNISH LH** (See page [ED-67](#))
7. **INSTALL BACK DOOR CENTER GARNISH** (See page [ED-67](#))
8. **CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**
CAUTION:
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.
2. **PLACE FRONT WHEELS FACING STRAIGHT AHEAD**
3. **REMOVE STEERING PAD ASSEMBLY** (See page [RS-336](#))
4. **REMOVE STEERING WHEEL ASSEMBLY** (See page [SR-12](#))
5. **REMOVE STEERING COLUMN COVER UPPER** (See page [SR-12](#))
6. **REMOVE STEERING COLUMN COVER LOWER** (See page [SR-12](#))
7. **REMOVE WIPER AND WASHER SWITCH ASSEMBLY**
 - (a) Disconnect the connectors.
 - (b) Detach the claw and remove the wiper switch.

NOTICE:

Do not push the claw with excessive force as damage may occur.



INSPECTION

1. **INSPECT WINDSHIELD WIPER SWITCH ASSEMBLY**
 - (a) Check the front wiper switch.
 - (1) Measure the resistance of the switch.

Standard resistance

Tester Connection	Switch Condition	Specified Condition
E10-1 (+S) - E10-3 (+1)	INT	Below 1 Ω
	OFF	
E10-2 (B) - E10-3 (+1)	MIST	
	LO	
E10-2 (B) - E10-4 (+2)	HI	

If the result is not as specified, replace the switch assembly.

- (b) Check the front washer switch assembly.
 - (1) Measure the resistance of the switch.

Standard resistance

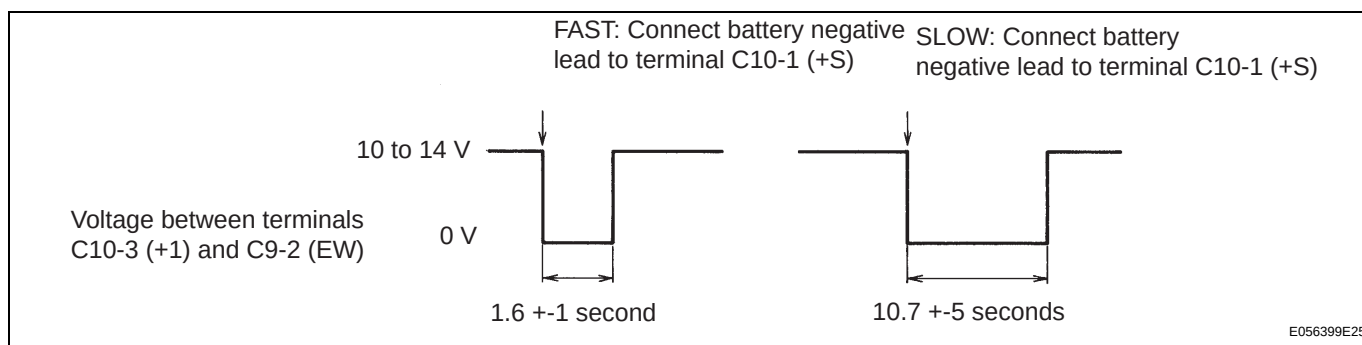
Tester Connection	Switch Condition	Specified Condition
E9-2 (EW) - E9-3 (WF)	ON	Below 1 Ω
	OFF	10 k Ω or higher

If the result is not specified, replace the switch assembly.

- (c) Check the intermittent operation.
- (1) Connect the voltmeter's positive (+) lead to terminal E10-3 (+1) and the negative (-) lead to terminal E9-2 (EW).
 - (2) Connect the battery's positive (+) lead to terminal E10-2 (+B) and the negative (-) lead to terminal E9-2 (EW) and E10-1 (+S).
 - (3) Turn the wiper switch to the INT position.
 - (4) Connect the battery's positive (+) lead to terminal E10-1 (+S) for 5 seconds.
 - (5) Connect the battery's negative (-) lead to terminal E10-1 (+S). Operate the intermittent wiper relay and check the voltage between terminals E10-3 (+1) and E9-2 (EW).

Standard voltage:

Refer to the illustration below.

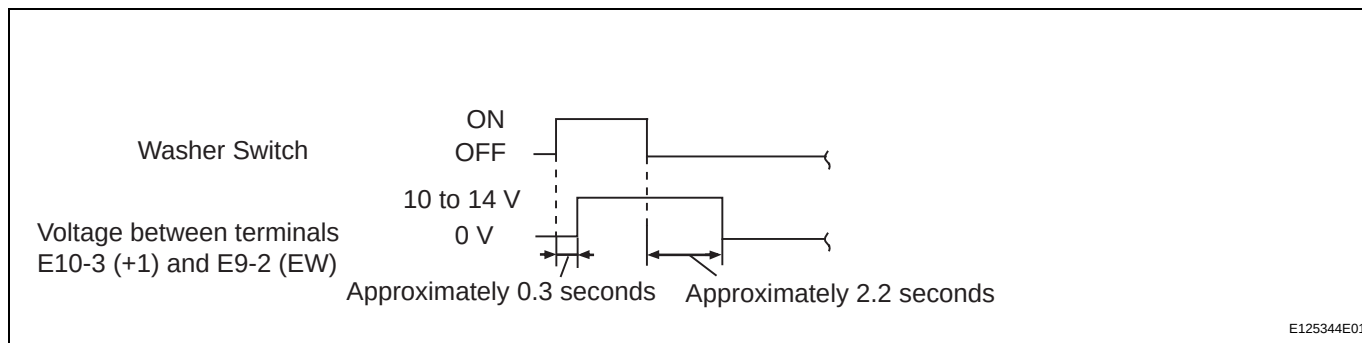


If the result is not as specified, replace the switch assembly.

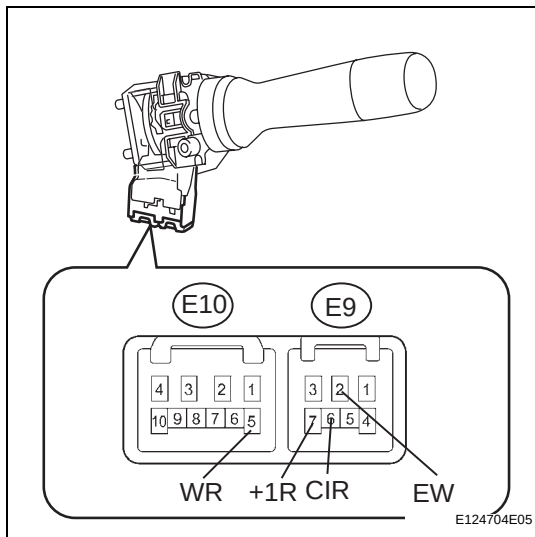
- (d) Check the front washer operation.
- (1) Turn the wiper switch OFF.
 - (2) Connect the battery's positive (+) lead to terminal E10-2 (+B) and the negative (-) lead to terminals E10-4 (+S) and E9-2 (EW).
 - (3) Connect the voltmeter's positive (+) lead to E10-3 (+1) and the negative (-) lead to terminal E9-2 (EW).
 - (4) Turn the washer switch ON and OFF, and check the voltage between terminals E10-3 (+1) and E9-2 (EW).

OK:

Refer to the illustration below.



If the result is not as specified, replace the switch assembly.



- (e) Check the rear wiper switch.
 (1) Measure the resistance of the switch.

Standard resistance

Tester Connection	Switch Condition	Specified Condition
E9-2 (EW) - E9-6 (CIR)	INT	Below 1 Ω
E9-2 (EW) - E9-7 (+1R)	ON	
E9-2 (EW) - E9-6 (CIR)	OFF	10 k Ω or higher
E9-2 (EW) - E9-7 (+1R)		

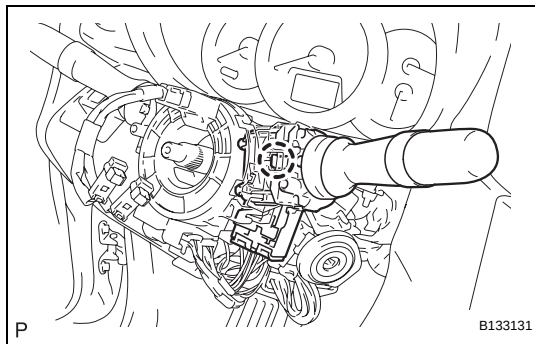
If the result is not as specified, replace the switch assembly.

- (f) Check the rear washer switch.
 (1) Measure the resistance of the switch.

Standard resistance

Tester Connection	Switch Condition	Specified Condition
E9-2 (EW) - E9-7 (+1R)	ON	Below 1 Ω
E9-2 (EW) - E10-5 (WR)	OFF	10 k Ω or higher

If the result is not as specified, replace the switch assembly.

**INSTALLATION****1. INSTALL WIPER AND WASHER SWITCH ASSEMBLY**

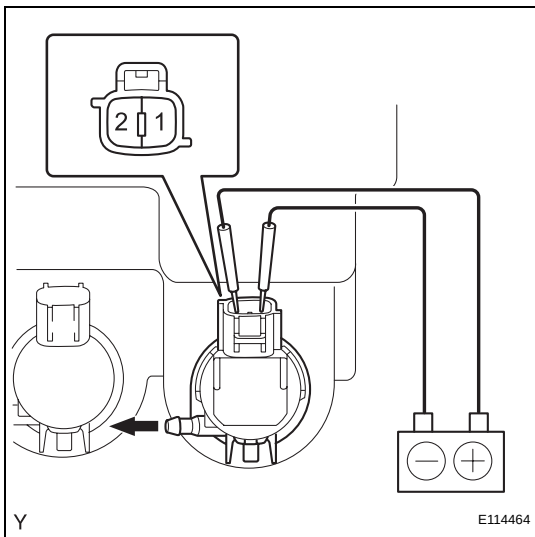
- (a) Attach the claw to install the wiper switch.
 (b) Connect the connectors.

NOTICE:

Do not push the claw with excessive force as damage may occur.

2. INSTALL STEERING COLUMN COVER LOWER (See page [SR-20](#))**3. INSTALL STEERING COLUMN COVER UPPER (See page [SR-20](#))****4. INSTALL STEERING WHEEL ASSEMBLY (See page [SR-21](#))****5. PLACE FRONT WHEELS FACING STRAIGHT AHEAD****6. INSPECT STEERING WHEEL CENTER POINT****7. INSTALL STEERING PAD ASSEMBLY (See page [RS-336](#))****8. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL****9. INSPECT STEERING PAD ASSEMBLY (See page [RS-337](#))****10. CHECK SRS WARNING LIGHT**

- (a) Check the SRS warning light (see page [RS-337](#)).



INSPECTION

1. INSPECT WINDSHIELD WASHER MOTOR AND PUMP ASSEMBLY

HINT:

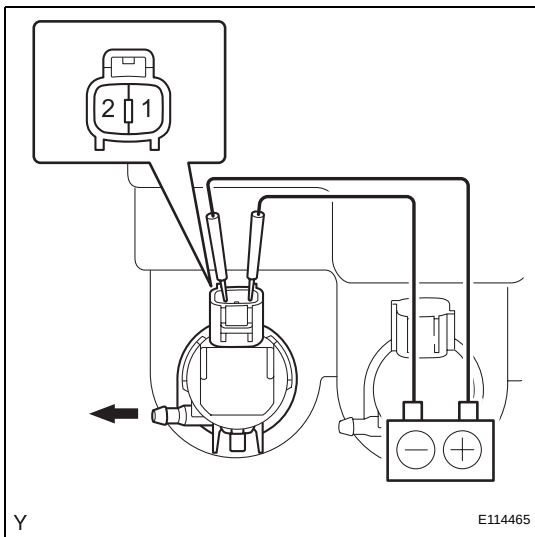
This check should be performed with the windshield washer motor and pump installed to the washer jar.

- Fill the washer jar with washer fluid.
- Connect the battery's positive (+) lead to terminal 1 of the washer motor and pump, and the negative (-) lead to terminal 2.
- Check that washer fluid flows from the washer jar.

OK:

Washer fluid flows from the washer jar.

If the result is not as specified, replace the washer motor and pump assembly.



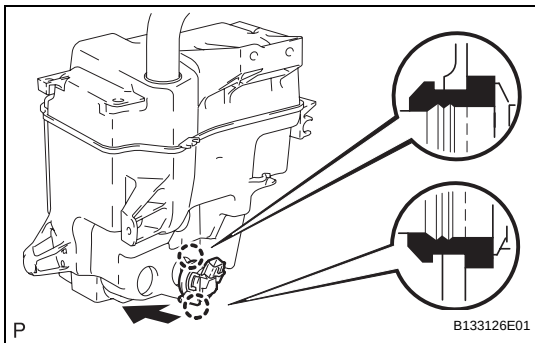
2. INSPECT REAR WASHER MOTOR AND PUMP ASSEMBLY

- Fill the washer jar with washer fluid.
- Connect the battery's positive (+) lead to terminal 1 of the washer motor and pump, and the negative (-) lead to terminal 2.
- Check that washer fluid flows from the washer jar.

OK:

Washer fluid flows from the washer jar.

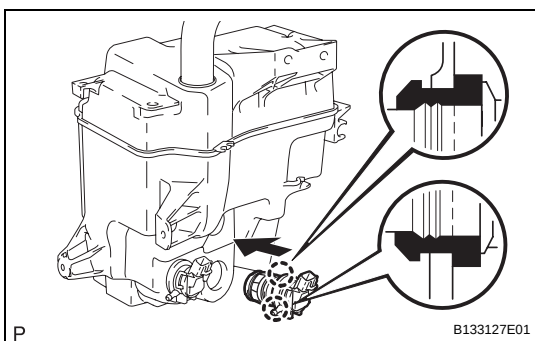
If the result is not as specified, replace the washer motor and pump assembly.



INSTALLATION

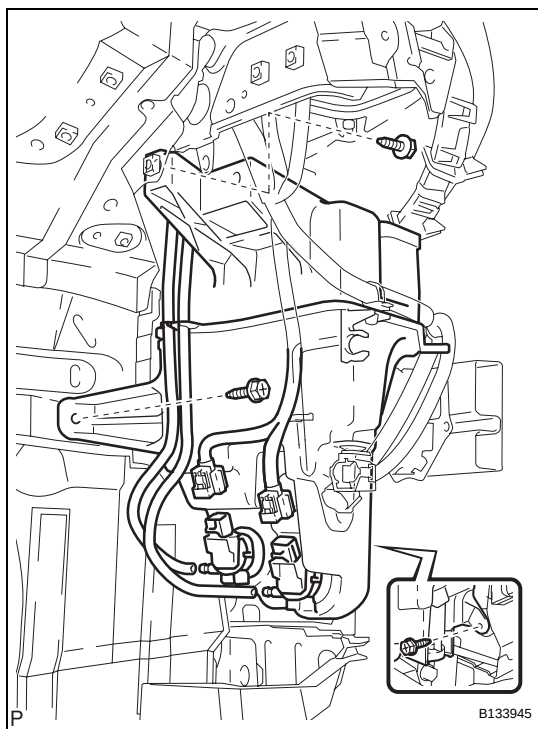
1. INSTALL REAR WASHER MOTOR AND PUMP ASSEMBLY

- Install the windshield washer motor and pump to the packing of the washer jar.



2. INSTALL WINDSHIELD WASHER MOTOR AND PUMP ASSEMBLY

- Install the windshield washer motor and pump to the packing of the washer jar.



3. INSTALL WINDSHIELD WASHER JAR ASSEMBLY

- (a) Install the windshield washer jar and pump with the 3 bolts.
- (b) Connect the connectors.

4. FILL UP WASHER JAR AND PUMP ASSEMBLY WITH WASHER FLUID

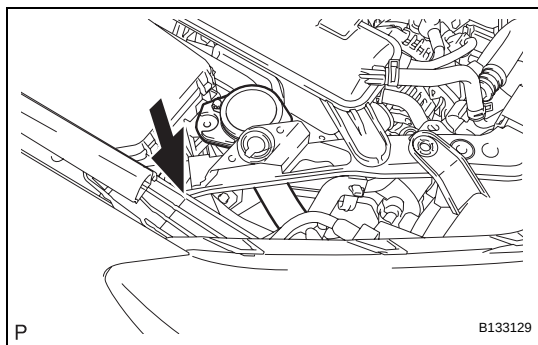
- (a) Connect the washer hoses to the washer motor and pump, and fill the washer jar with washer fluid.

5. INSTALL FRONT BUMPER COVER (See page ET-11)

6. INSTALL RADIATOR SUPPORT OPENING COVER (See page ET-12)

7. INSTALL FRONT FENDER LINER LH (See page ET-12)

8. INSTALL FRONT FENDER LINER RH (See page ET-12)

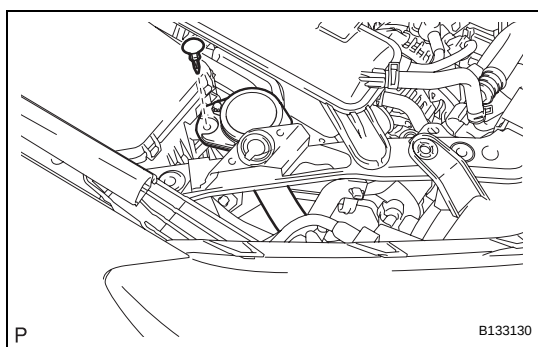


9. INSTALL WASHER INLET SUB-ASSEMBLY

- (a) Install the washer inlet of the washer jar and pump to the windshield washer jar and pump.

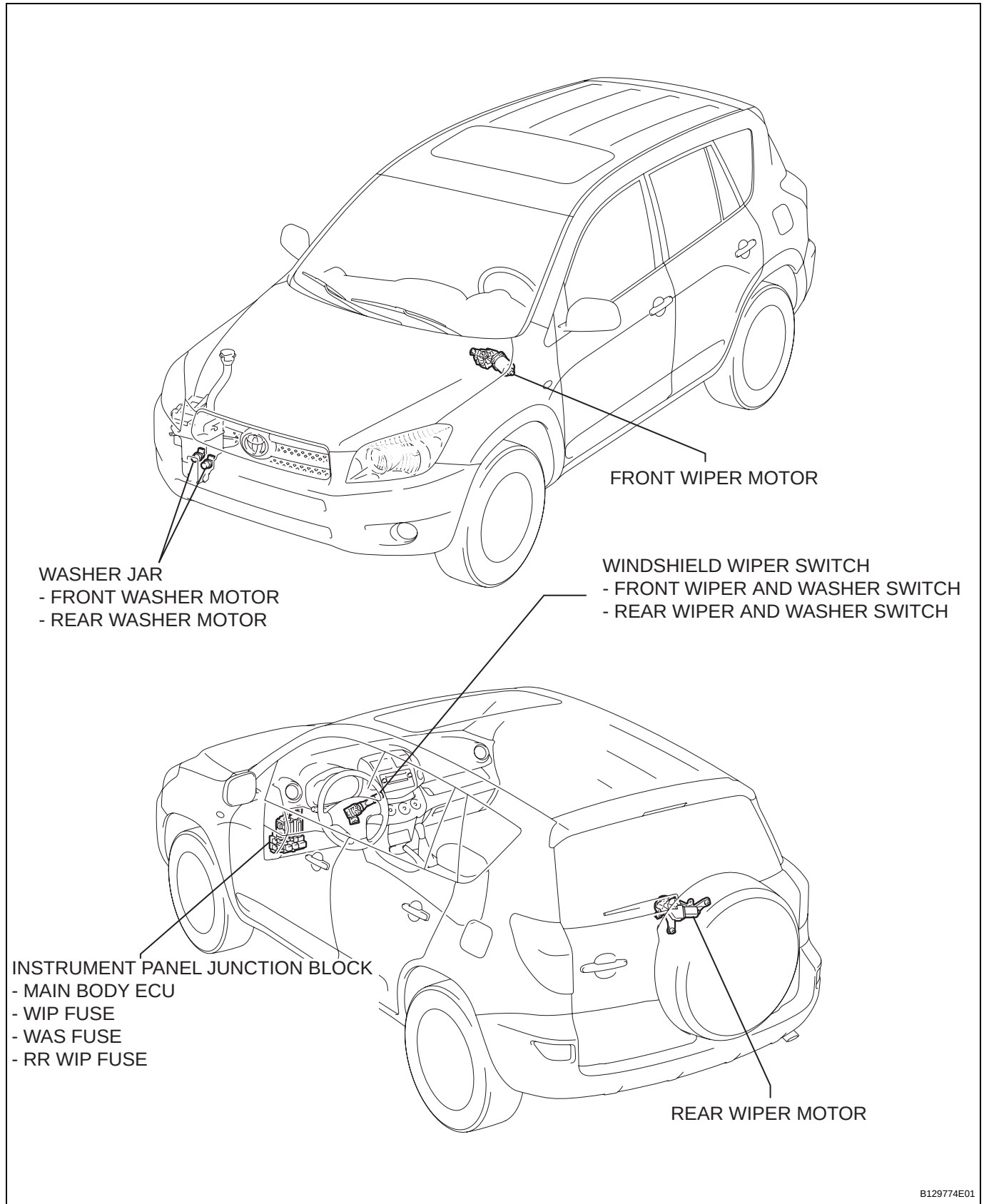
- (b) Install the washer inlet of the washer jar and pump with the clip.

10. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

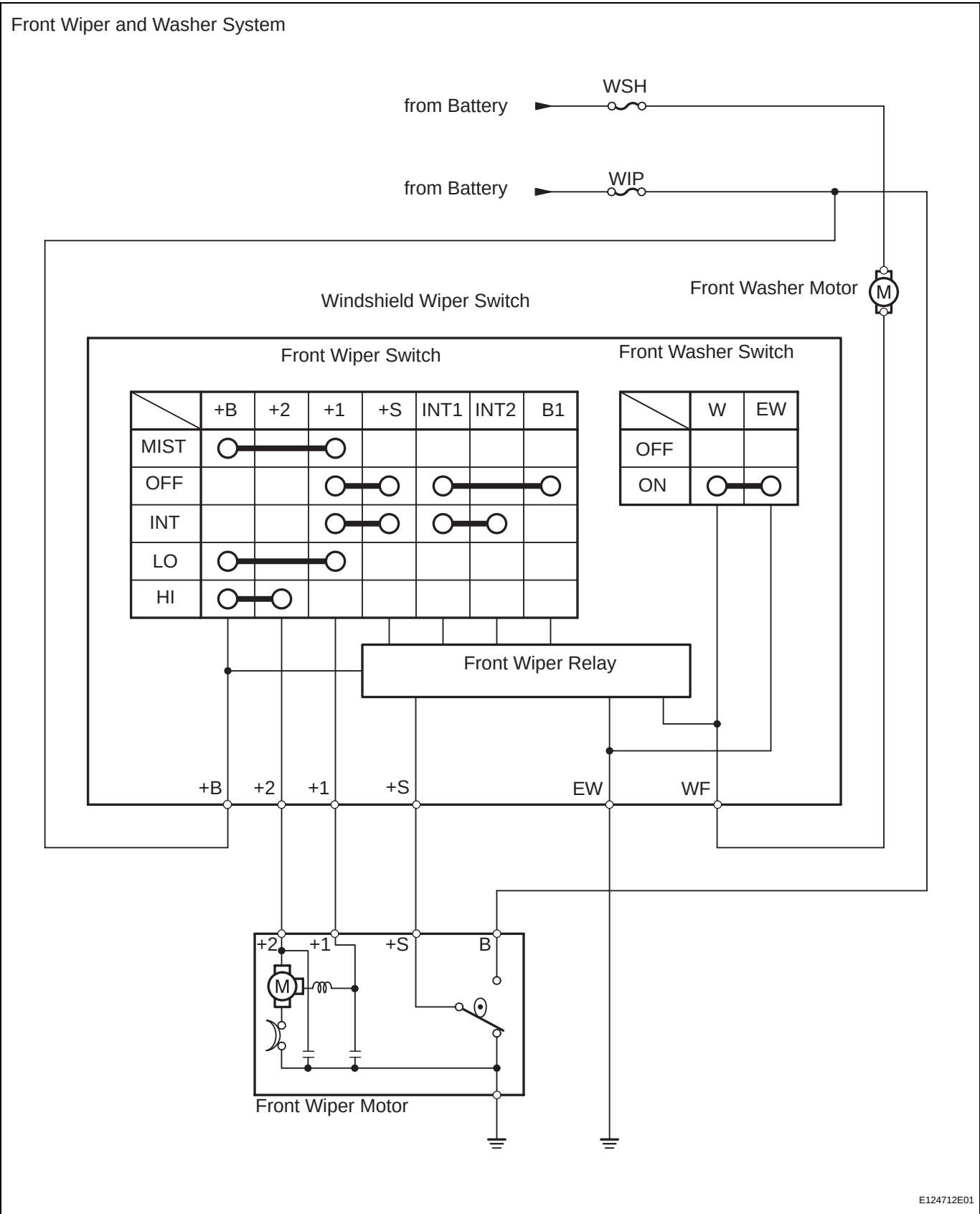


WIPER AND WASHER SYSTEM

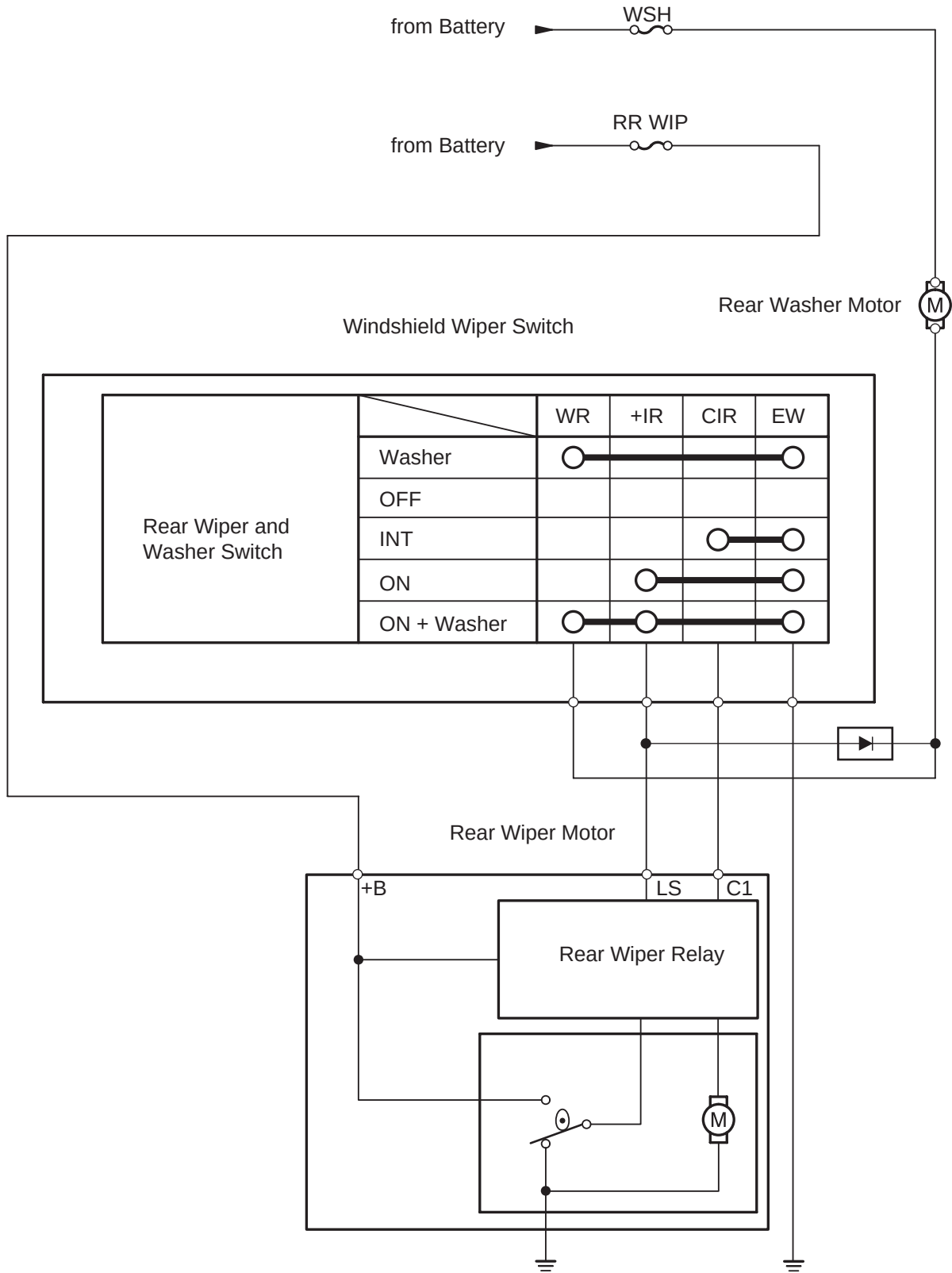
PARTS LOCATION



SYSTEM DIAGRAM



Rear Wiper and Washer System



FRONT WIPER MOTOR

INSPECTION

1. INSPECT FRONT WIPER MOTOR

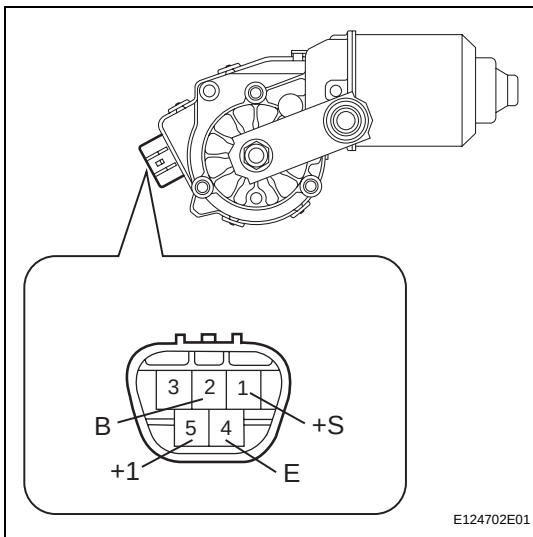
(a) Check the LO operation.

- (1) Connect the battery's positive (+) lead to terminal 5 (+1) and the negative (-) lead to terminal 4 (E), and check that the front wiper motor operates at low speed (LO).

OK:

Front wiper motor operates at low speed (LO).

If the result is not as specified, replace the motor.



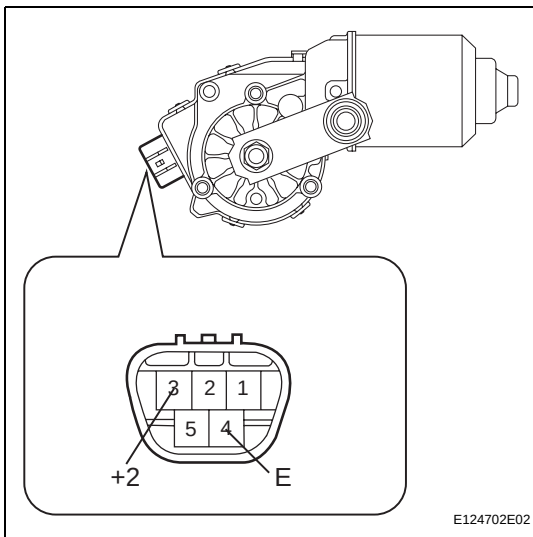
(b) Check the HI operation.

- (1) Connect the battery's positive (+) lead to terminal 3 (+2) and the negative battery (-) lead to terminal 4 (E), and check that the front wiper motor operates at high speed (HI).

OK:

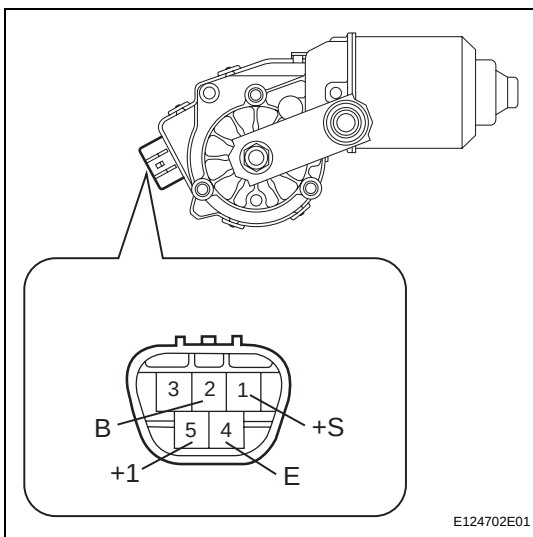
Front wiper motor operates at high speed (HI).

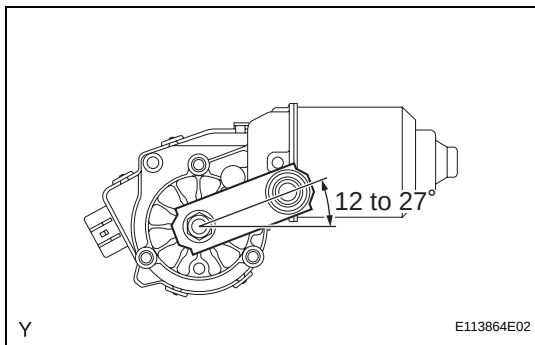
If the result is not as specified, replace the motor.



(c) Check the automatic stop operation.

- (1) Connect the battery's positive (+) lead to terminal 5 (+1) and the negative (-) lead to terminal 4 (E). With the motor rotating at low speed (LO), disconnect the lead from terminal 5 (+1) to stop the wiper motor operation at any position other than the automatic stop position.
- (2) Using SST, connect the terminals 1 (+S) and 5 (+1). Then connect the battery's positive (+) lead to terminal 2 (B) to restart the motor operation at low speed (LO).





- (3) Check that the motor stops automatically at the automatic stop position.

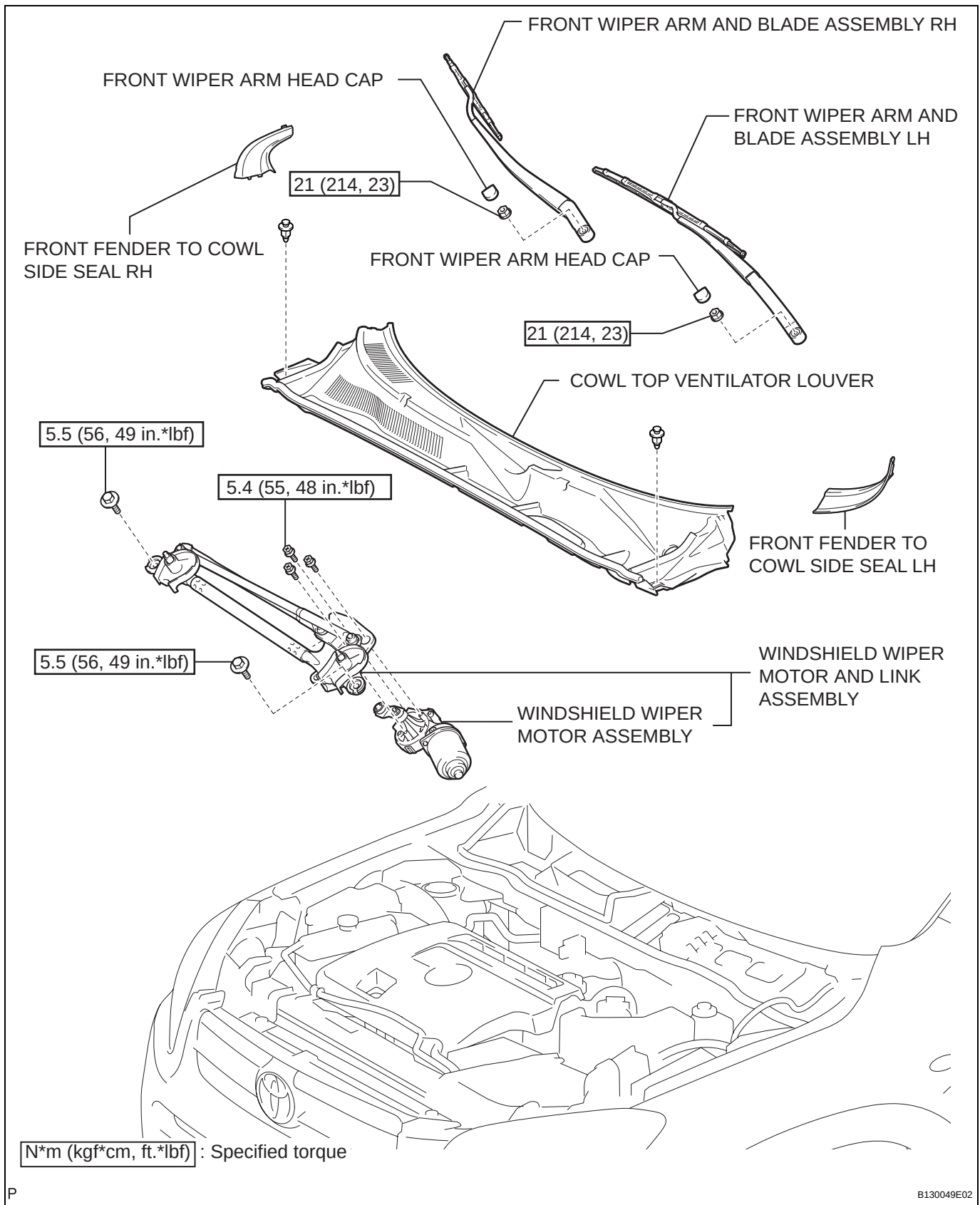
OK:

Refer to the illumination.

If the result is not as specified, replace the motor.

FRONT WIPER MOTOR AND LINK

COMPONENTS



REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**

CAUTION:

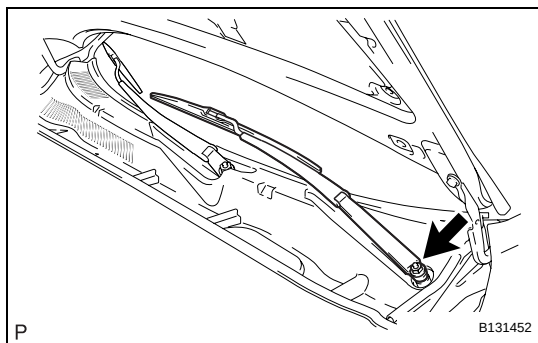
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

2. **REMOVE FRONT WIPER ARM HEAD CAP**

(a) Remove the 2 caps.

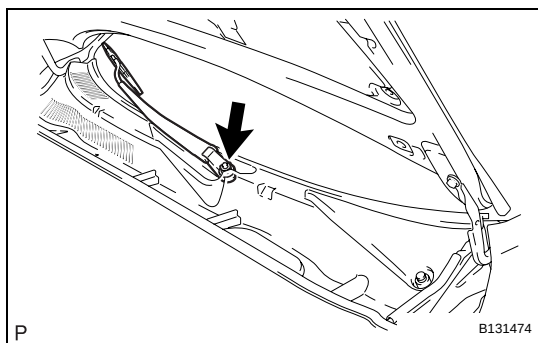
3. **REMOVE FRONT WIPER ARM AND BLADE ASSEMBLY LH**

(a) Remove the nut and arm and blade.



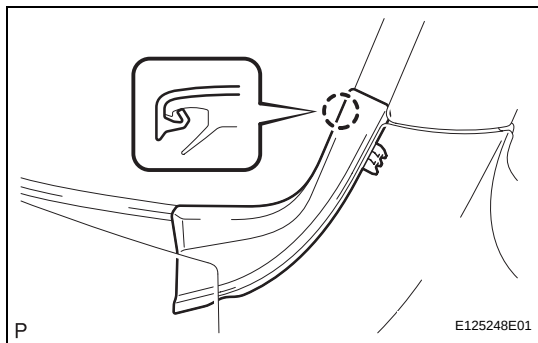
4. **REMOVE FRONT WIPER ARM AND BLADE ASSEMBLY RH**

(a) Remove the nut and arm and blade.



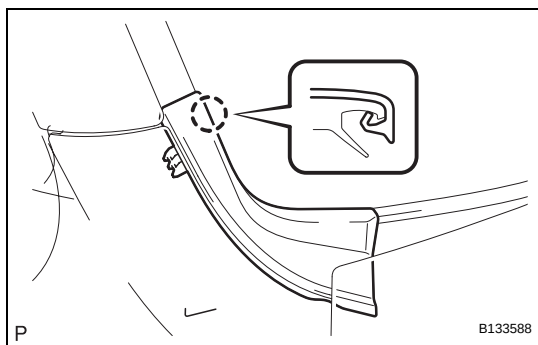
5. **REMOVE FRONT FENDER TO COWL SIDE SEAL LH**

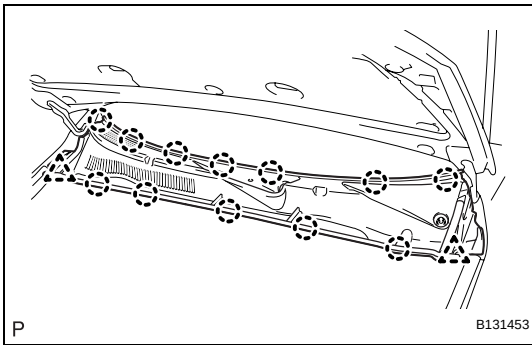
(a) Detach the claw and remove the front fender to cowl side seal.



6. **REMOVE FRONT FENDER TO COWL SIDE SEAL RH**

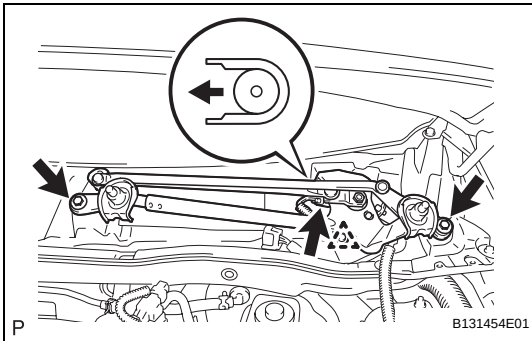
(a) Detach the claw and remove the front fender to cowl side seal.





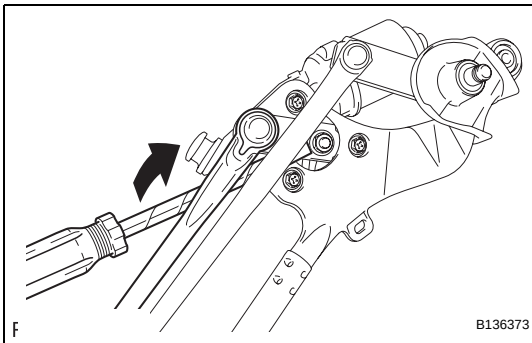
7. REMOVE COWL TOP VENTILATOR LOUVER

- Remove the 2 clips.
- Detach the 12 claws and remove the louver.



8. REMOVE WINDSHIELD WIPER MOTOR AND LINK ASSEMBLY

- Remove the 2 bolts.
- Move the wiper cushion in the direction shown by the arrow in the illustration to detach the wiper cushion from the body, and remove the wiper motor and link.
- Disconnect the connector and detach the clamp.

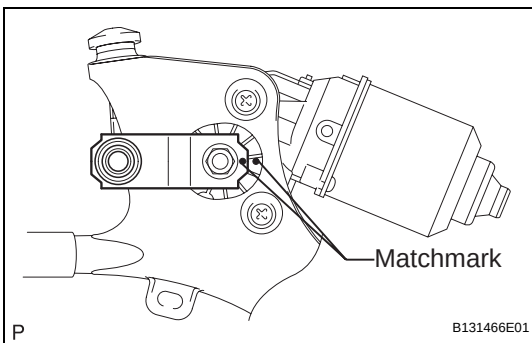


9. REMOVE WINDSHIELD WIPER MOTOR ASSEMBLY

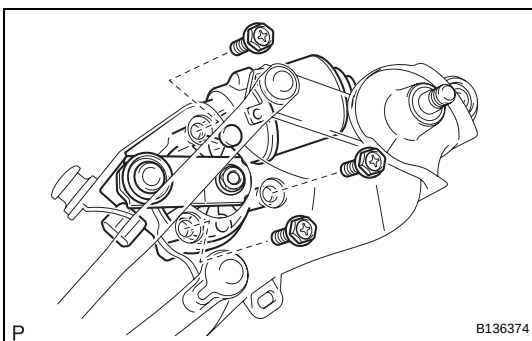
- Using a screwdriver, disconnect the rod of the wiper link from the wiper motor as shown in the illustration.

HINT:

Tape the screwdriver tip before use.



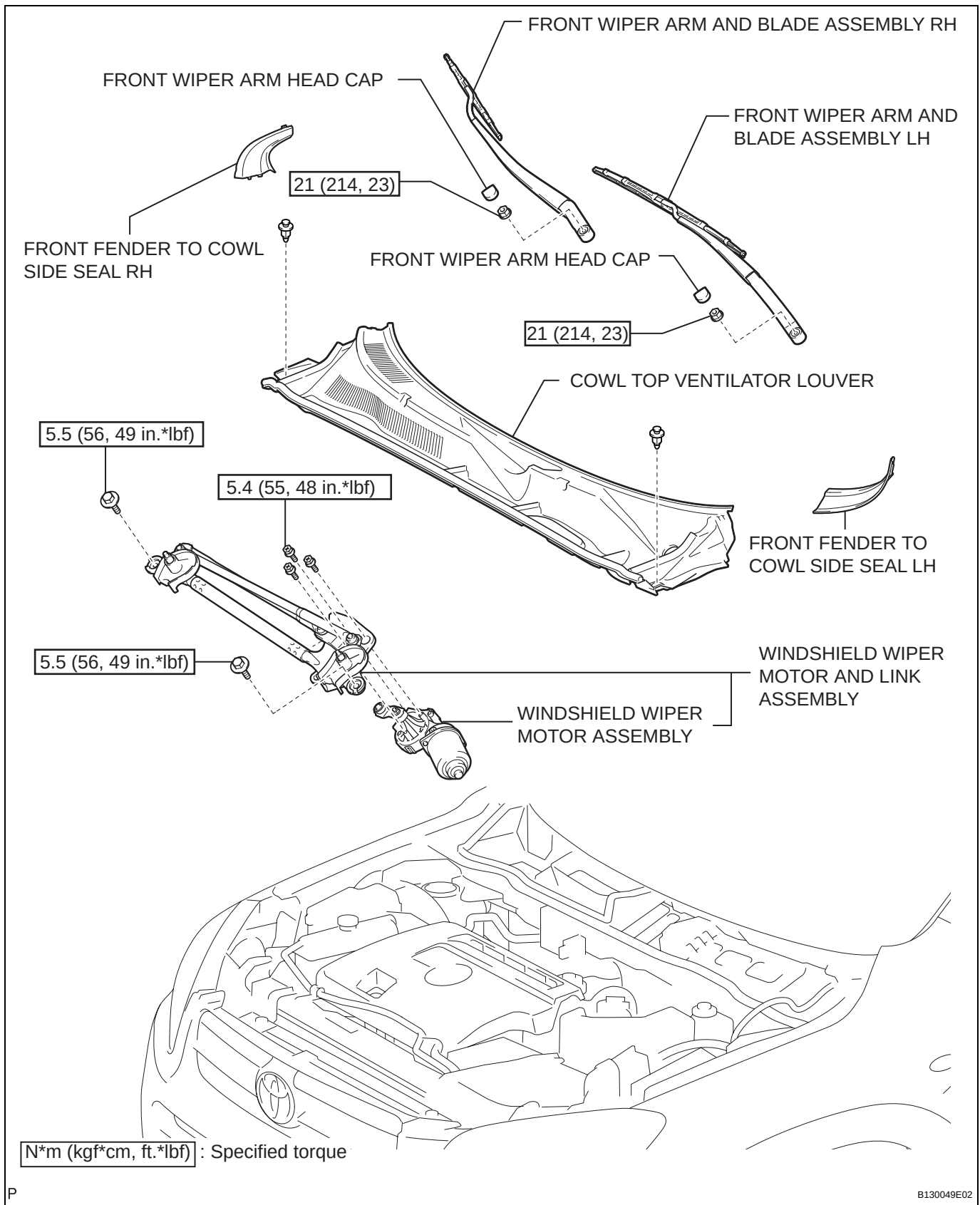
- Put matchmarks on the crank arm and motor, as shown in the illustration.



- Remove the 3 bolts and wiper motor.

FRONT WIPER MOTOR AND LINK

COMPONENTS



REMOVAL

1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**

CAUTION:

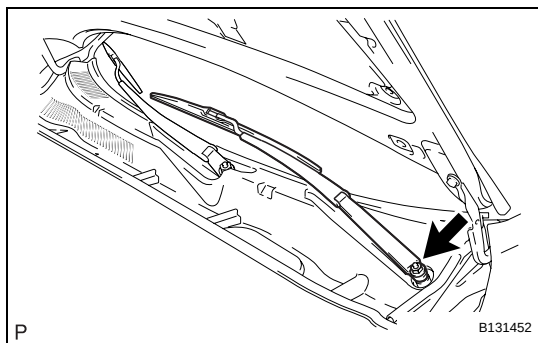
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

2. **REMOVE FRONT WIPER ARM HEAD CAP**

(a) Remove the 2 caps.

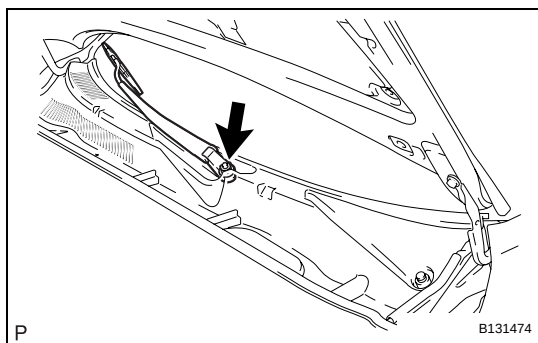
3. **REMOVE FRONT WIPER ARM AND BLADE ASSEMBLY LH**

(a) Remove the nut and arm and blade.



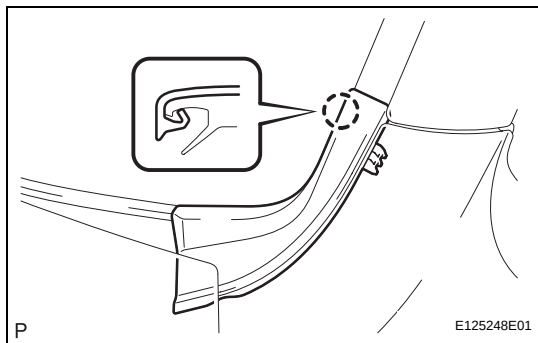
4. **REMOVE FRONT WIPER ARM AND BLADE ASSEMBLY RH**

(a) Remove the nut and arm and blade.



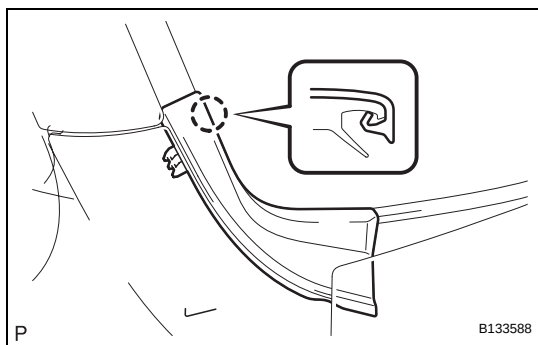
5. **REMOVE FRONT FENDER TO COWL SIDE SEAL LH**

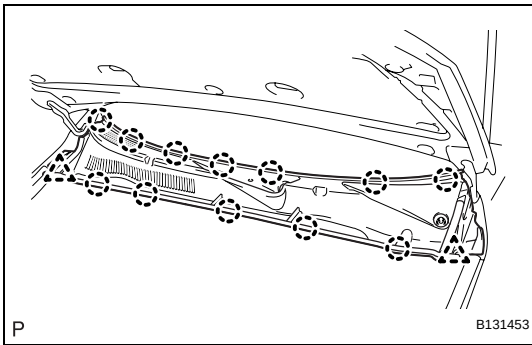
(a) Detach the claw and remove the front fender to cowl side seal.



6. **REMOVE FRONT FENDER TO COWL SIDE SEAL RH**

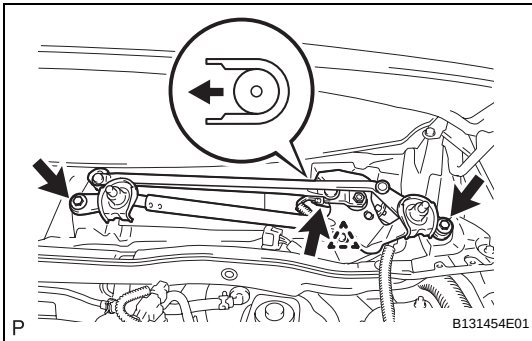
(a) Detach the claw and remove the front fender to cowl side seal.





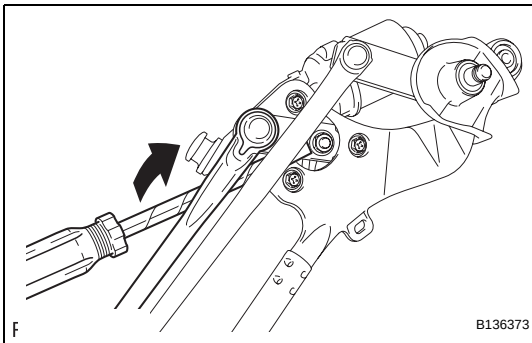
7. REMOVE COWL TOP VENTILATOR LOUVER

- Remove the 2 clips.
- Detach the 12 claws and remove the louver.



8. REMOVE WINDSHIELD WIPER MOTOR AND LINK ASSEMBLY

- Remove the 2 bolts.
- Move the wiper cushion in the direction shown by the arrow in the illustration to detach the wiper cushion from the body, and remove the wiper motor and link.
- Disconnect the connector and detach the clamp.

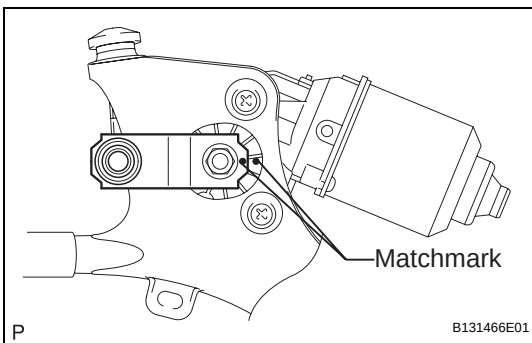


9. REMOVE WINDSHIELD WIPER MOTOR ASSEMBLY

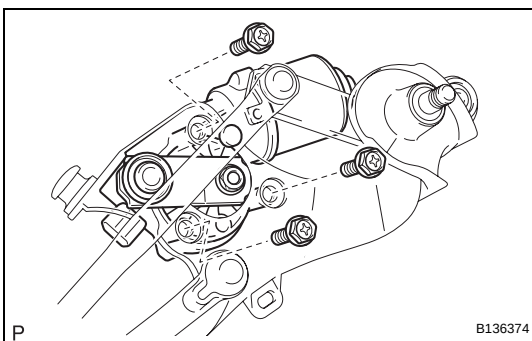
- Using a screwdriver, disconnect the rod of the wiper link from the wiper motor as shown in the illustration.

HINT:

Tape the screwdriver tip before use.



- Put matchmarks on the crank arm and motor, as shown in the illustration.

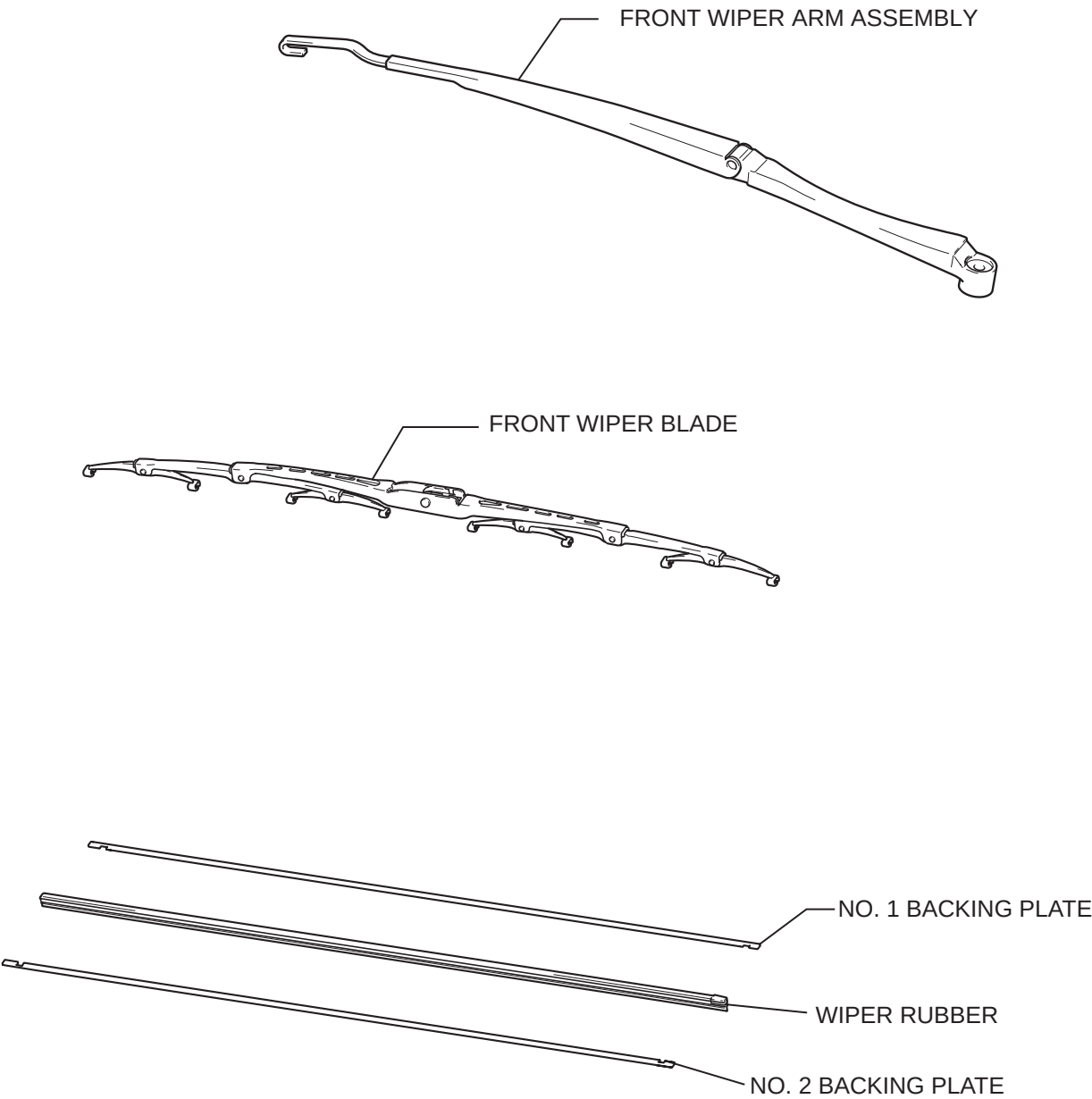


- Remove the 3 bolts and wiper motor.

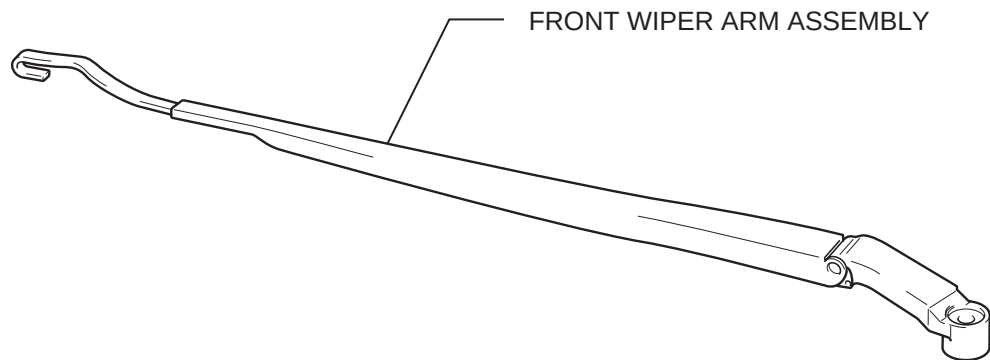
FRONT WIPER RUBBER

COMPONENTS

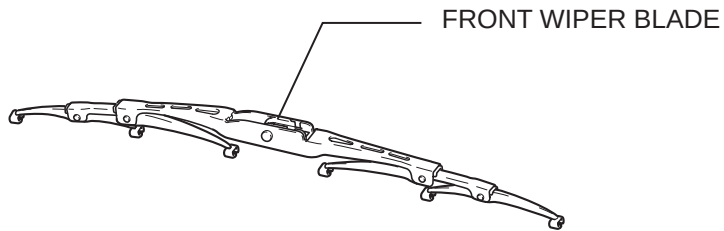
for LH



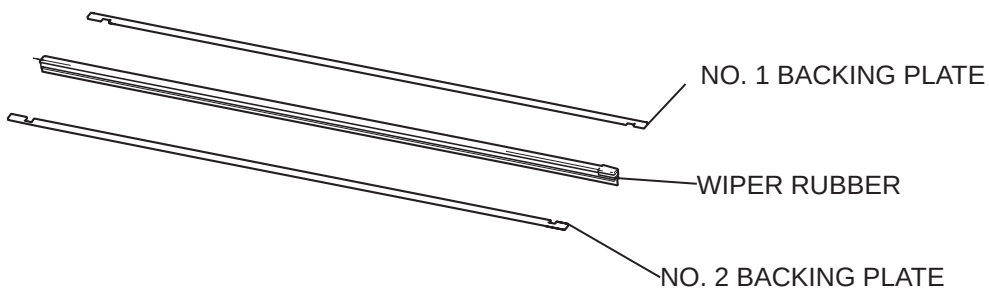
for RH



FRONT WIPER ARM ASSEMBLY



FRONT WIPER BLADE



NO. 1 BACKING PLATE

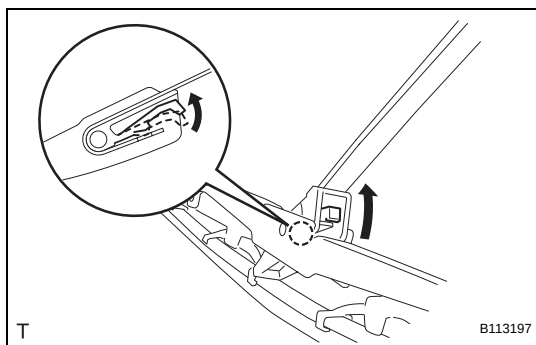
WIPER RUBBER

NO. 2 BACKING PLATE

REMOVAL

1. REMOVE FRONT WIPER BLADE

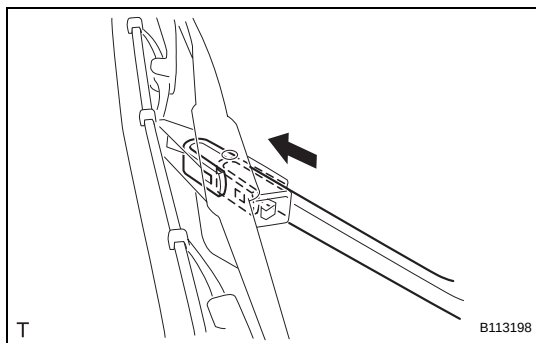
- (a) Detach the claw as shown in the illustration.



- (b) Remove the wiper blade as shown in the illustration.

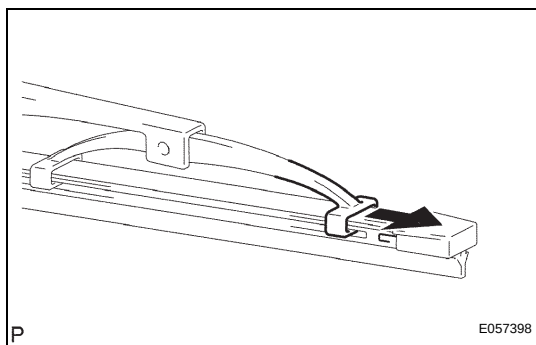
NOTICE:

Do not fold the wiper arm with the wiper blade removed. The arm tip may damage the windshield surface.



2. REMOVE WIPER RUBBER

- (a) Detach the head part (large side) of the wiper rubber from the wiper blade.

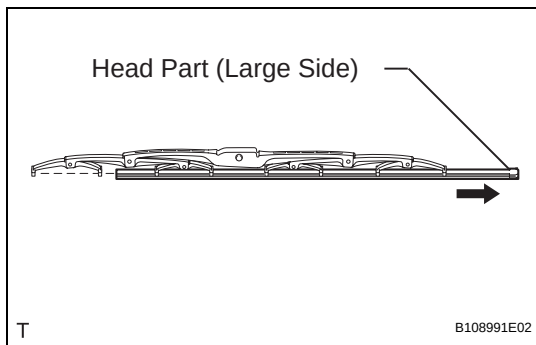


- (b) Remove the wiper rubber in the direction indicated by the arrow in the illustration.

NOTICE:

Do not pull out the wiper rubber forcibly. Doing so will deform the backing plate or damage the blade claw.

- (c) Remove the 2 wiper rubber backing plates from the wiper rubber.



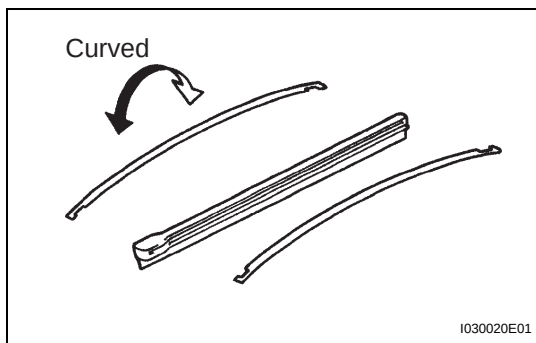
INSTALLATION

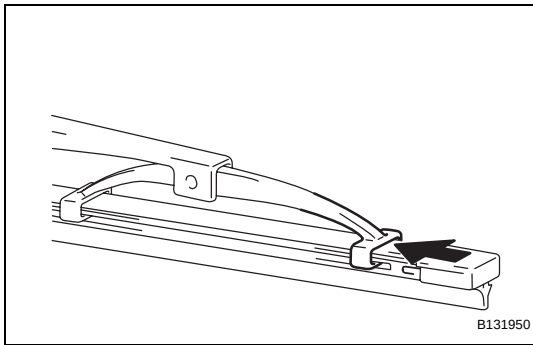
1. INSTALL WIPER RUBBER

- (a) Install the 2 packing plates to the rubber.

NOTICE:

Install the packing plates facing the proper direction.

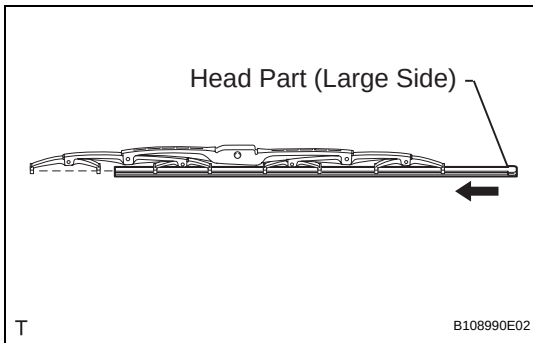




- (b) Install the wiper rubber to the claw of the wiper blade in the direction indicated by the arrow in the illustration.

HINT:

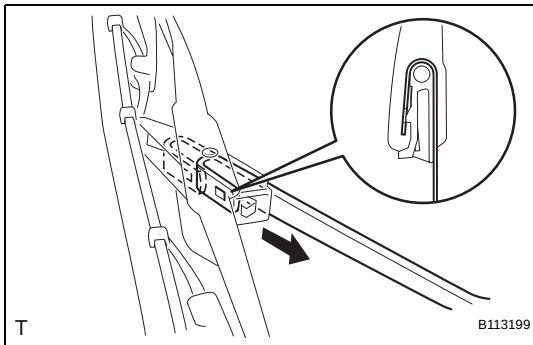
Install the wiper rubber so that the head part (large side) of the wiper rubber faces the arm axle side.



- (c) Attach the head part (large side) of the wiper rubber to the rear end side claw of the wiper blade.

NOTICE:

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

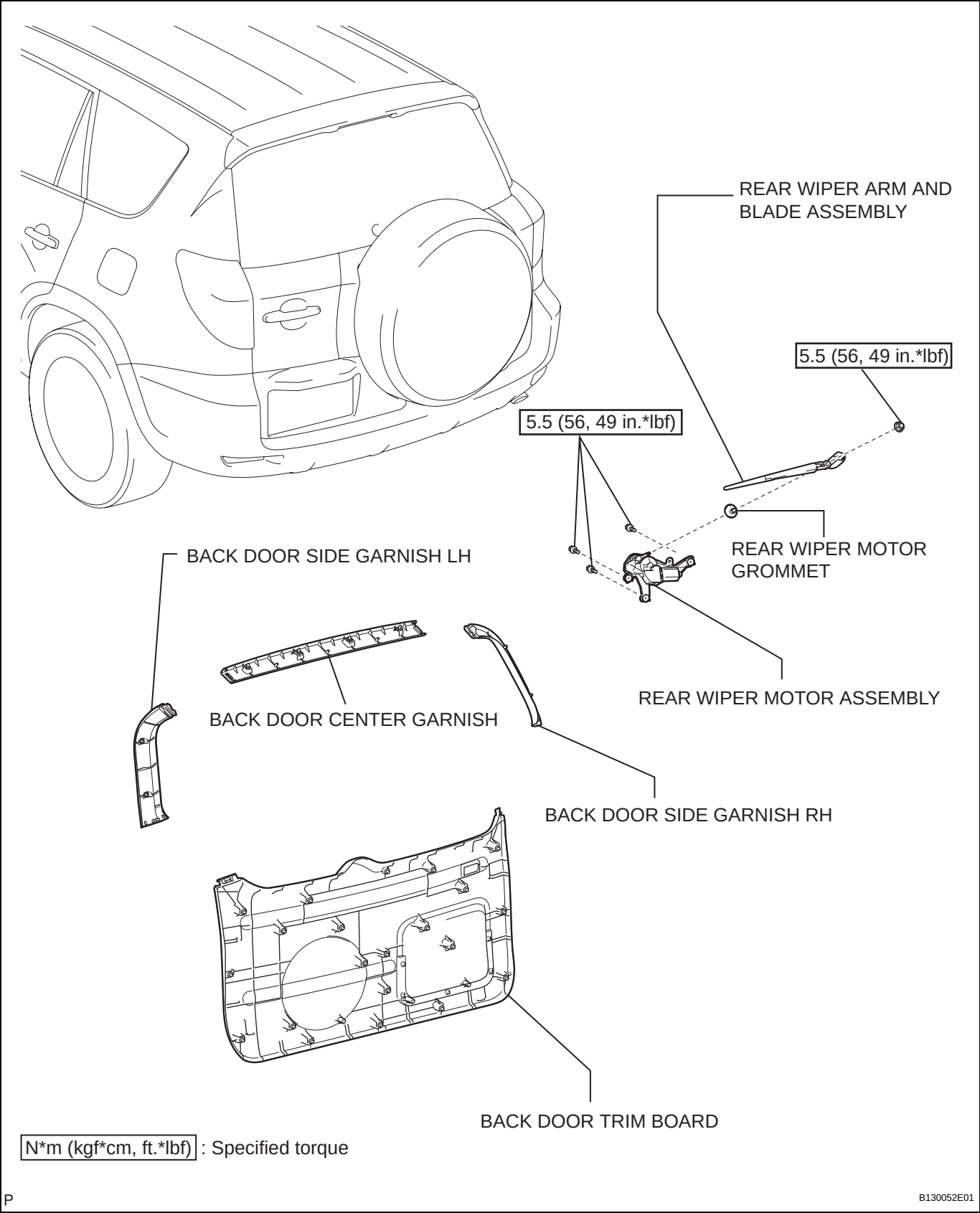


2. INSTALL FRONT WIPER BLADE

- (a) Attach the claw to install the wiper blade.

REAR WIPER MOTOR

COMPONENTS



REMOVAL

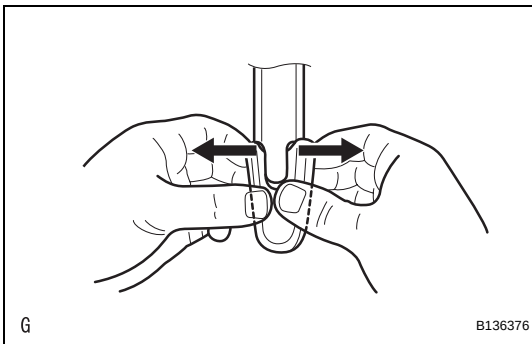
1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

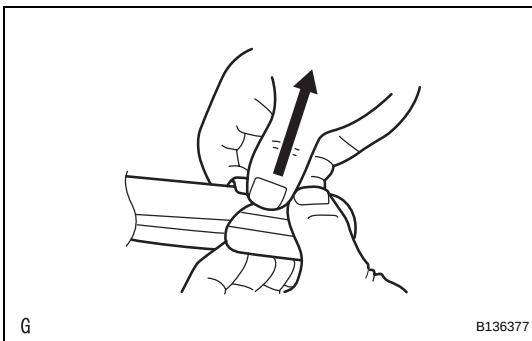
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

2. REMOVE BACK DOOR CENTER GARNISH (See page [ED-59](#))
3. REMOVE BACK DOOR SIDE GARNISH LH (See page [ED-59](#))
4. REMOVE BACK DOOR SIDE GARNISH RH (See page [ED-59](#))
5. REMOVE BACK DOOR TRIM BOARD (See page [ED-59](#))
6. REMOVE REAR WIPER ARM AND BLADE ASSEMBLY

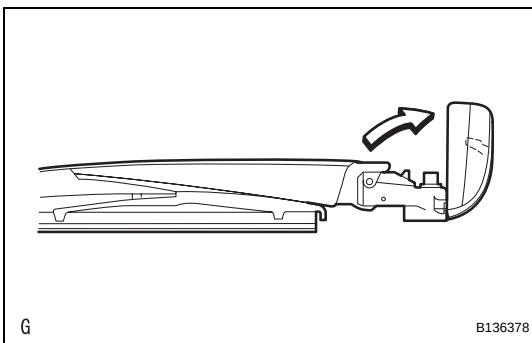
(a) Widen each end of the cap 5 mm (0.19in).



(b) Lift the both widened ends of the cap.

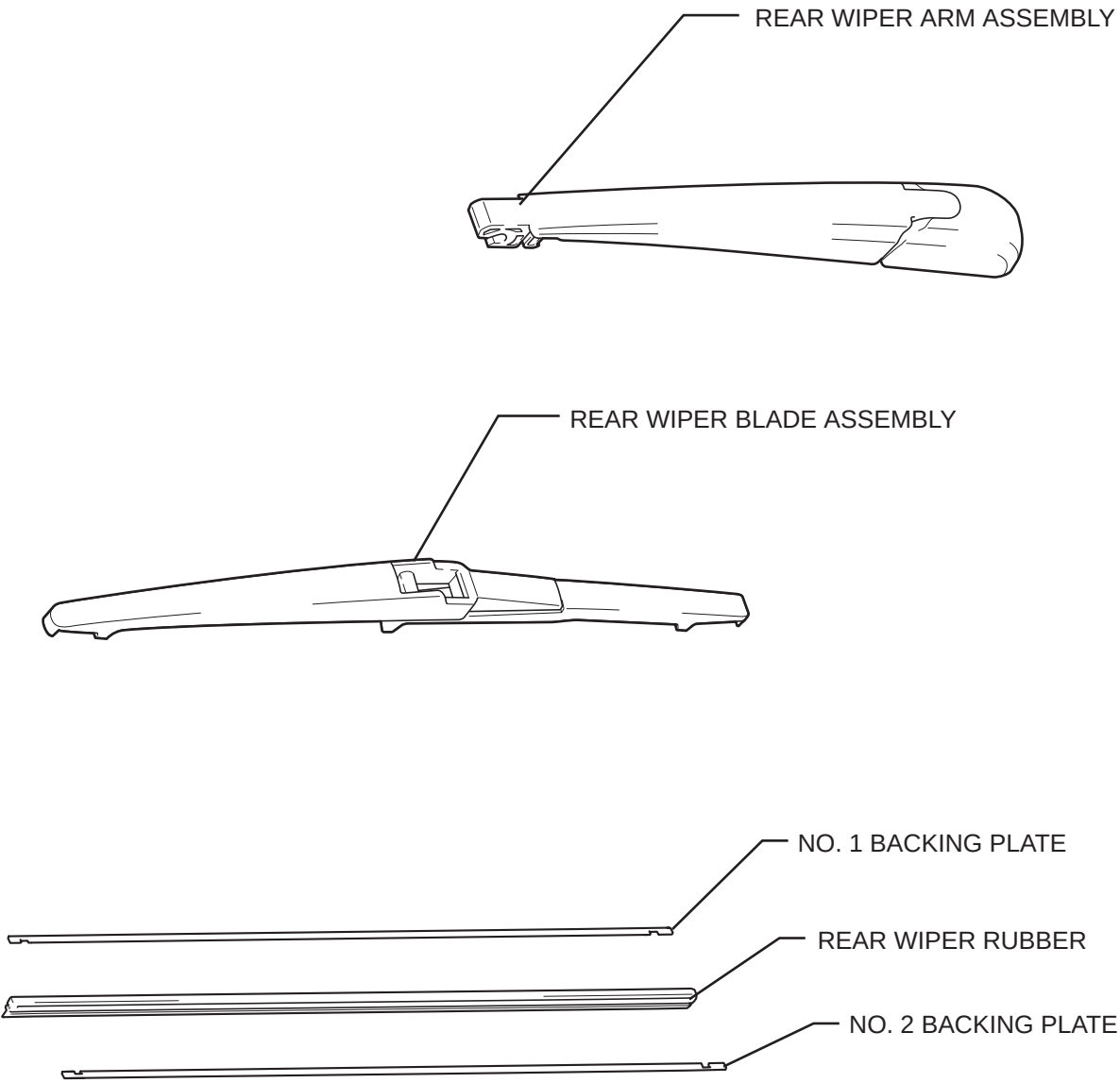


(c) Rotate the cap. Fix the cap in place.



REAR WIPER RUBBER

COMPONENTS

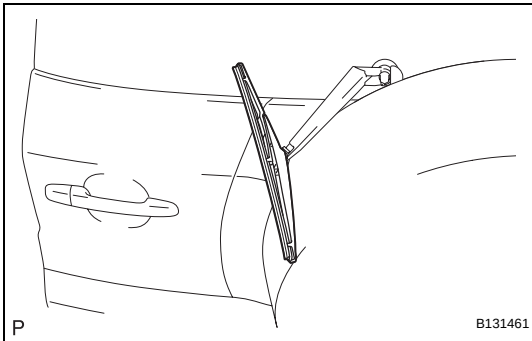
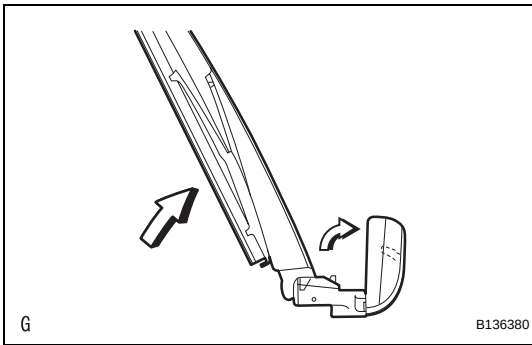


WW

REMOVAL

1. REMOVE REAR WIPER BLADE ASSEMBLY

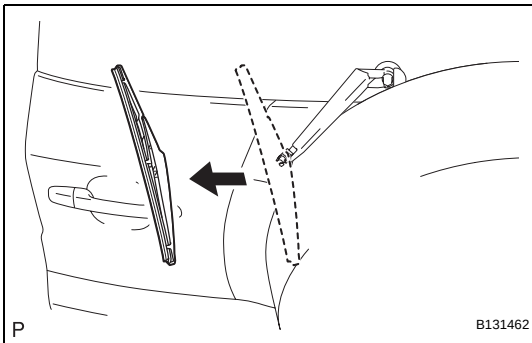
- Rotate and remove the cap as described in the "REMOVE" procedures.
- Raise the arm and blade.



- Raise the wiper blade to the position where the claw detach with a "click" sound, as shown in the illustration.

NOTICE:

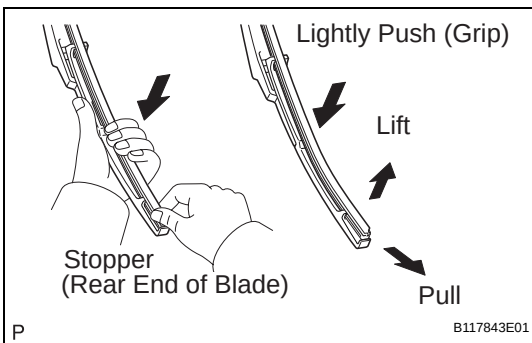
Be careful not to damage the claw.



- Pull the wiper blade straight toward the left side of the vehicle to remove it from the wiper arm.

NOTICE:

Do not fold the wiper arm with the wiper blade removed. The arm tip may damage the back door glass surface.



2. REMOVE REAR WIPER RUBBER

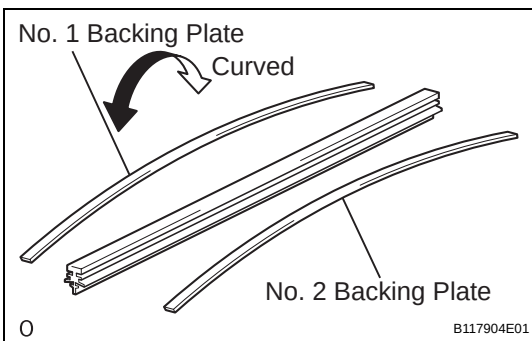
- Lift and pull the end of the wiper rubber protruding from the blade stopper as shown in the illustration.

NOTICE:

Do not forcibly pull out the wiper rubber. The backing plates will be deformed or the blade claws will be damaged.

HINT:

Lightly pushing the rubber between the ends and middle will allow it to be removed more easily.



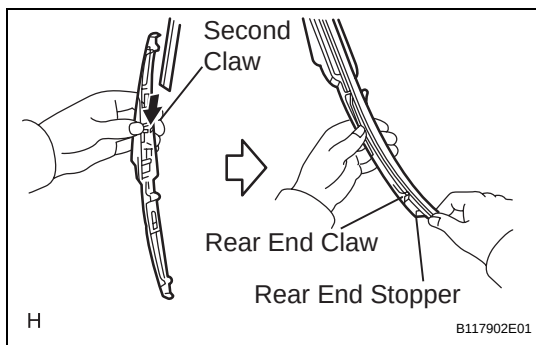
INSTALLATION

1. INSTALL REAR WIPER RUBBER

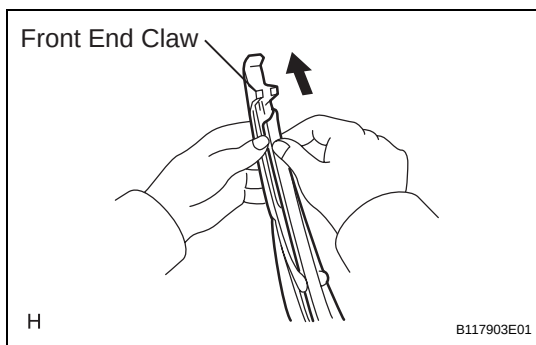
- Install the No. 1 and No. 2 backing plates as shown in the illustration.

NOTICE:

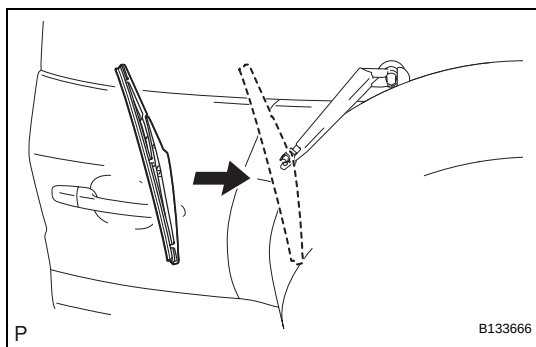
Install the backing plates facing the correct direction.



- (b) Insert the wiper rubber from the front end of the wiper blade to the rear end through the second claw.
- (c) After pushing the wiper rubber through the rear end claw, allow it to stick out from the rear end stopper.

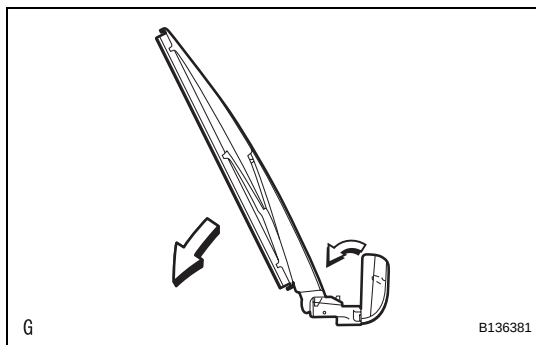


- (d) Slide the wiper rubber through the front end claw.



2. INSTALL REAR WIPER BLADE ASSEMBLY

- (a) Push the wiper blade straight toward the right side of the vehicle to install it to the wiper arm.



- (b) Lower the arm and blade.
- (c) Rotate and install the cap.

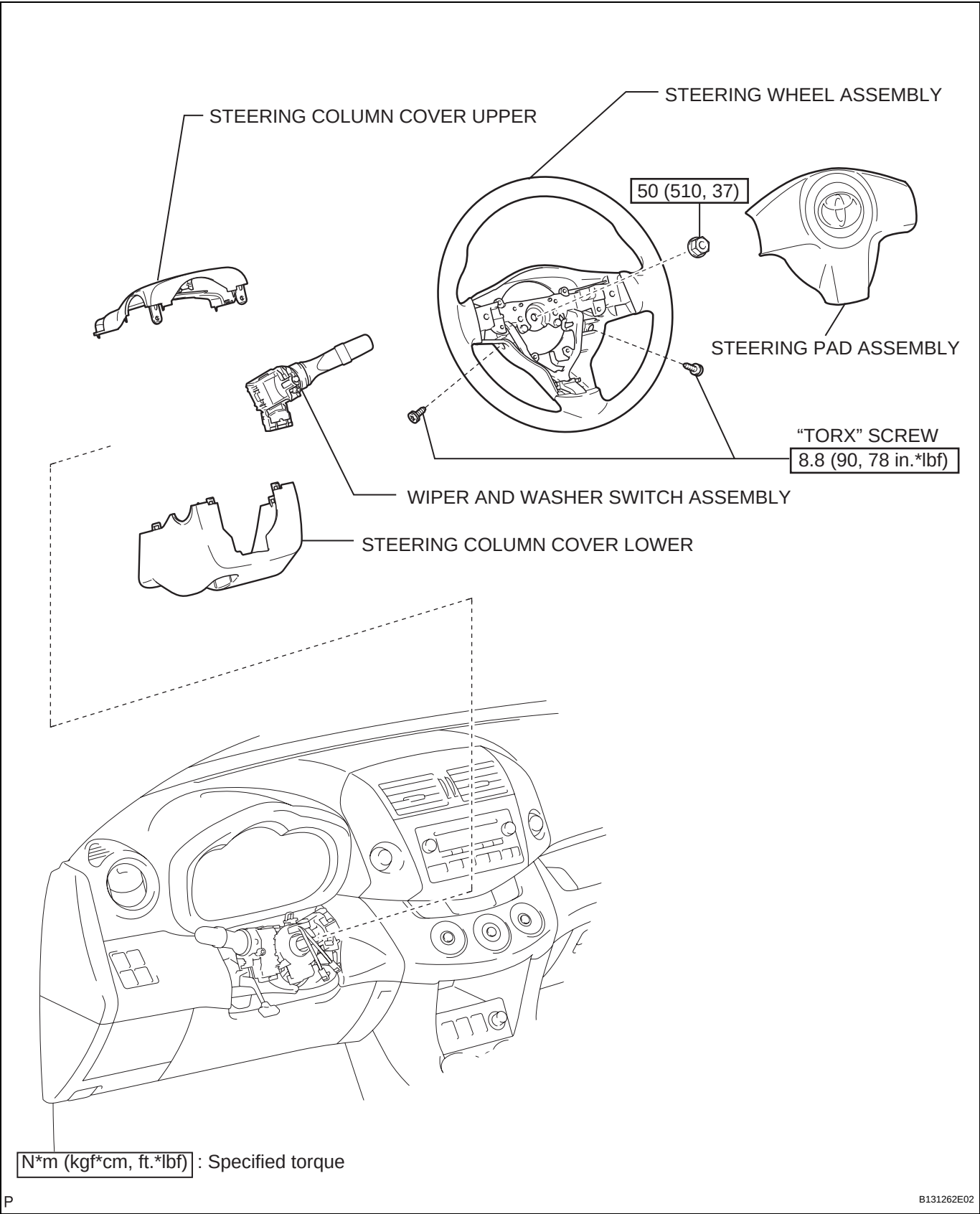
WIPER SWITCH

PRECAUTION

1. PRECAUTION FOR VEHICLE WITH SRS

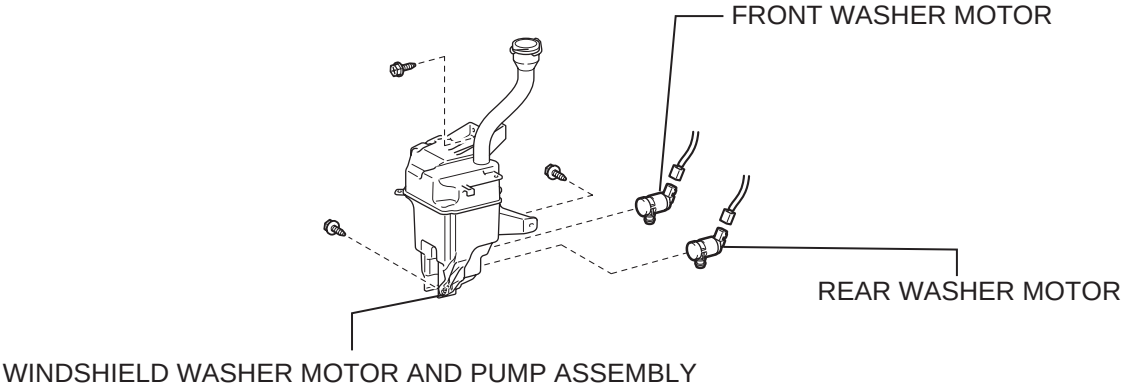
- (a) Some procedures in this section may affect the Supplemental Restraint System (SRS). Prior to performing the procedures, read the SRS section's "Precaution" (see page [SS-2](#)).

COMPONENTS



WASHER MOTOR

COMPONENTS



RADIATOR SUPPORT
OPENING COVER

FRONT BUMPER COVER

WW

REMOVAL

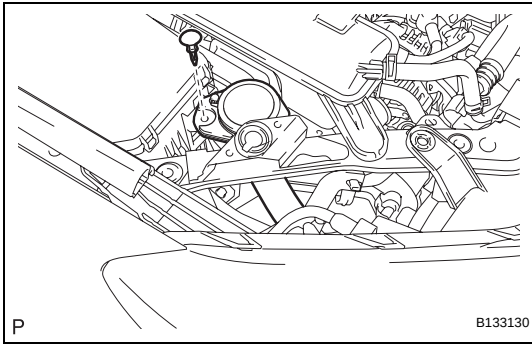
1. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**

CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

2. **REMOVE WASHER INLET SUB-ASSEMBLY**

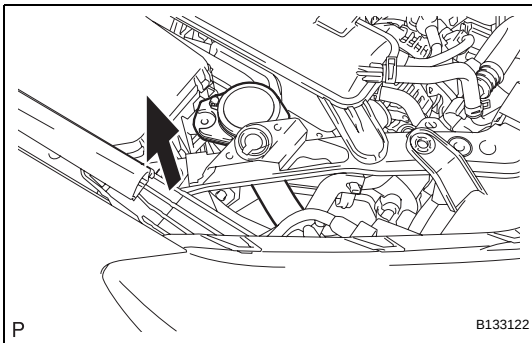
(a) Remove the clip.

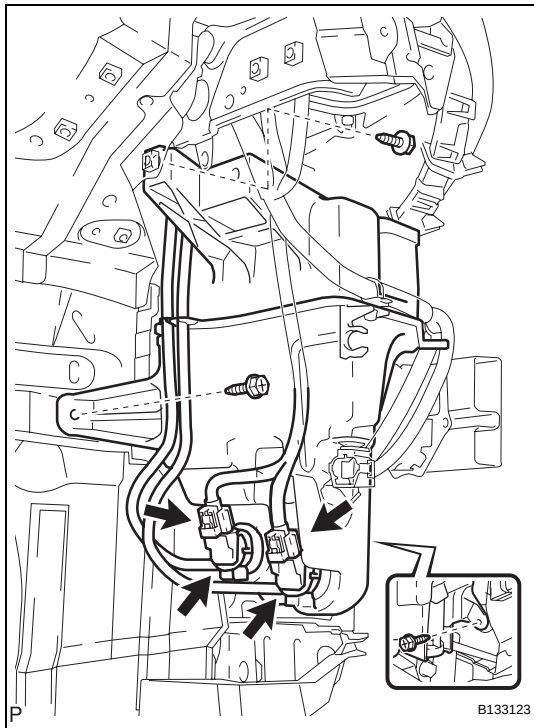


(b) Pull the washer inlet of the washer jar and pump upward. Then remove it from the windshield washer jar and pump.

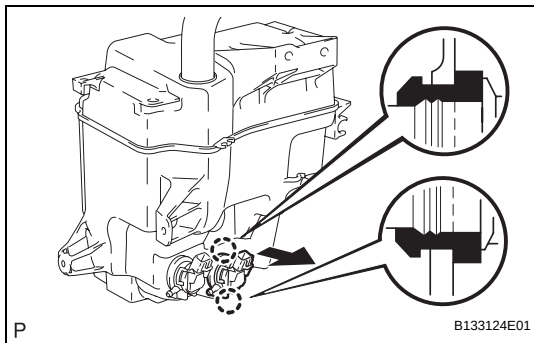
3. **REMOVE FRONT FENDER LINER LH (See page ET-4)**
4. **REMOVE FRONT FENDER LINER RH (See page ET-4)**
5. **REMOVE RADIATOR SUPPORT OPENING COVER (See page ET-4)**
6. **REMOVE FRONT BUMPER COVER (See page ET-5)**
7. **DRAIN WASHER FLUID**

(a) Remove the washer hoses from the windshield washer motor and pump assembly, and drain the washer fluid into a container.

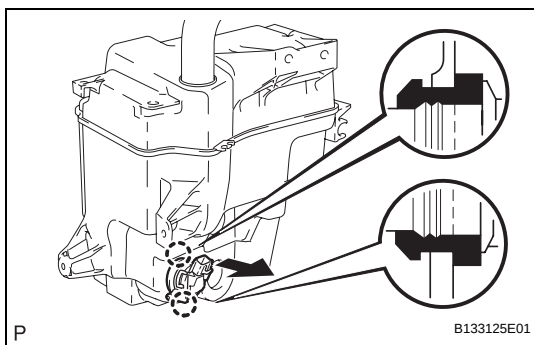


**8. REMOVE WINDSHIELD WASHER JAR ASSEMBLY**

- (a) Disconnect the connectors.
- (b) Remove the 3 bolts. Then remove the washer jar and pump.

**9. REMOVE WINDSHIELD WASHER MOTOR AND PUMP ASSEMBLY**

- (a) Pull out the washer motor and pump from the packing of the washer jar.

**10. REMOVE REAR WASHER MOTOR AND PUMP ASSEMBLY**

- (a) Pull out the washer motor and pump from the packing of the washer jar.