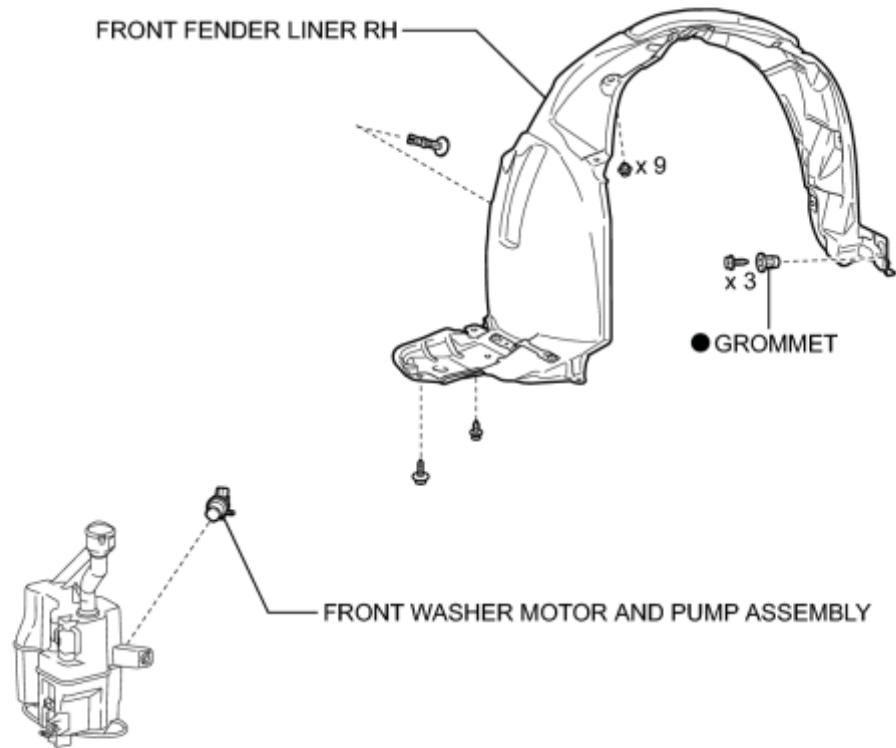


COMPONENTS

ILLUSTRATION

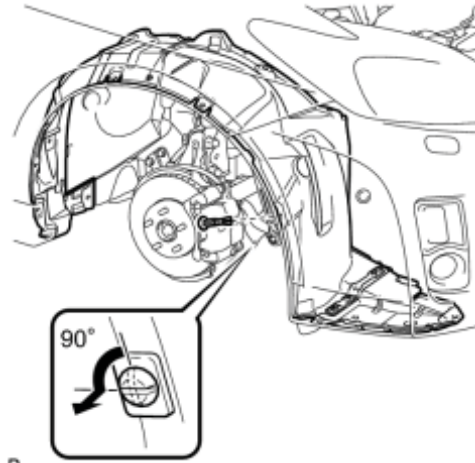


● Non-reusable part
P

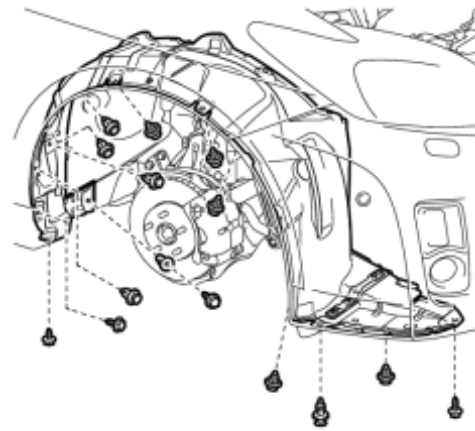
REMOVAL

1. REMOVE FRONT WHEEL RH

2. REMOVE FRONT FENDER LINER RH



(a) Using a screwdriver, turn the pin 90 degrees and remove the pin hold clip.



(b) Remove the 10 clips and 4 screws.

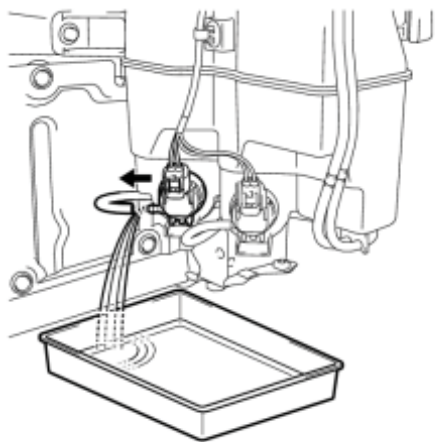
(c) Using a clip remover, remove the grommet and the front fender liner RH.

HINT:

The grommet needs to be replaced with new one because it will break when it is removed.

3. DRAIN WASHER FLUID

(a) Disconnect the washer hose from the windshield washer motor and pump assembly, and drain the washer fluid.

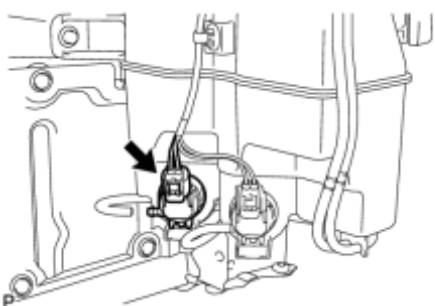


HINT:

Use a container to collect the washer fluid.

P

4. REMOVE FRONT WASHER MOTOR AND PUMP ASSEMBLY



(a) Disconnect the connector.

(b) Remove the windshield washer motor and pump assembly.

INSPECTION

1. INSPECT WINDSHIELD WASHER MOTOR AND PUMP ASSEMBLY

- (a) Remove the washer jar.
- (b) Disconnect the windshield washer motor and pump connector.

HINT:

The check should be performed with the windshield washer motor and pump installed on the washer jar.

- (c) Fill the washer jar with washer fluid.

*1



- (d) Connect a battery positive (+) lead to terminal 1 of the windshield washer motor and pump, and a negative (-) lead to terminal 2.

- (e) Check that washer fluid flows from the washer jar.

OK:

Washer fluid flows from the washer jar.

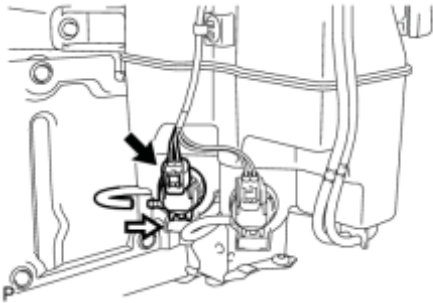
Text in Illustration

*1	Component without harness connected (Windshield Washer Motor and Pump Assembly)
----	--

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

INSTALLATION

1. INSTALL FRONT WASHER MOTOR AND PUMP ASSEMBLY



(a) Install the windshield washer motor and pump assembly.

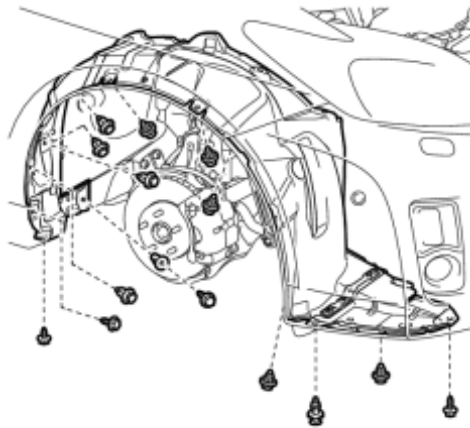
(b) Connect the connector.

(c) Connect the washer hose.

2. ADD WASHER FLUID

(a) Add washer fluid to the washer jar.

3. INSTALL FRONT FENDER LINER RH



(a) Install a new grommet and the 4 screws.

P

(b) Install the 10 clips.

(c) Install the pin hold clip as shown in the illustration.

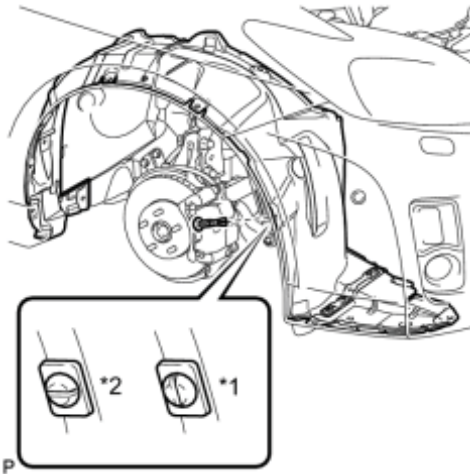
Text in Illustration

*1

Correct

*2

Incorrect



NOTICE:

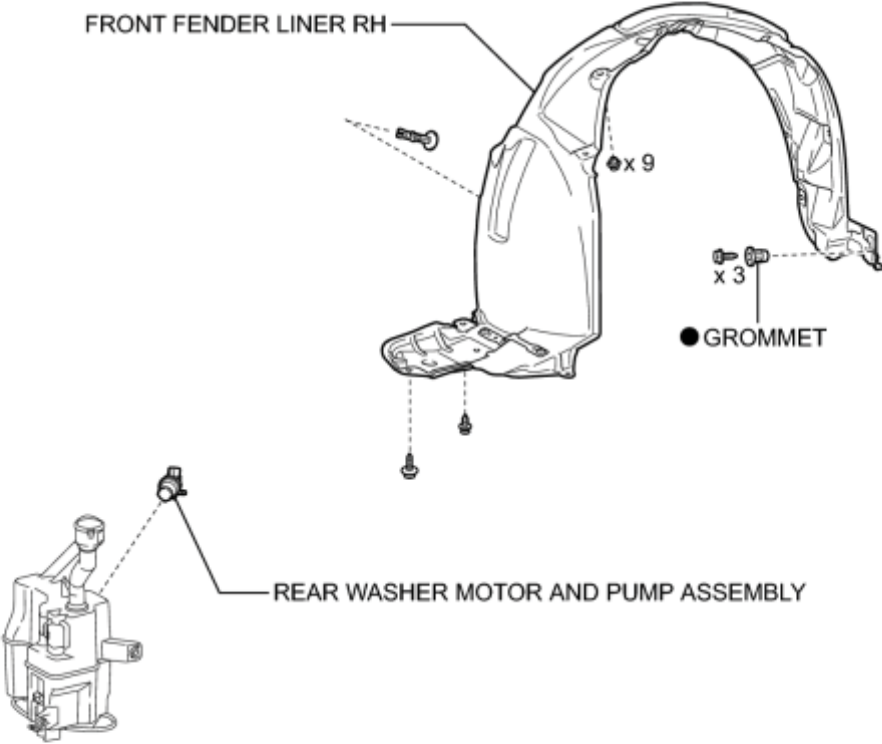
Insert the pin hold clip with the slot aligned vertically. Do not rotate the clip after inserting it. After installation, confirm that the slot is vertical.

4. INSTALL FRONT WHEEL RH

Torque: 103 N·m (1050 kgf·cm, 76ft·lbf)

COMPONENTS

ILLUSTRATION



● Non-reusable part

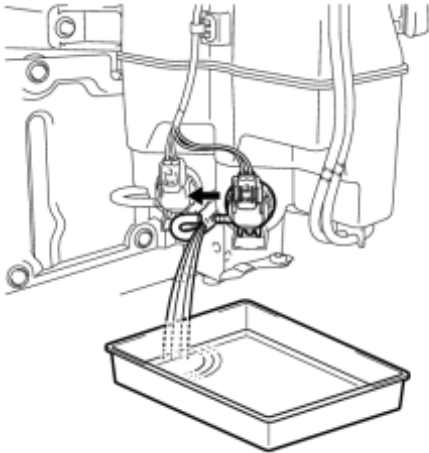
P

REMOVAL

1. REMOVE FRONT WHEEL RH

2. REMOVE FRONT FENDER LINER RH_ INFO

3. DRAIN WASHER FLUID



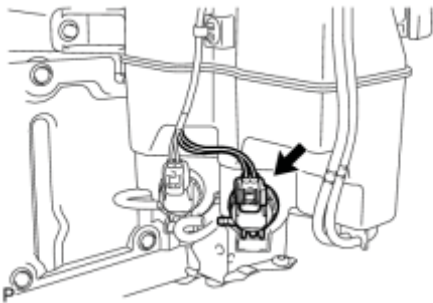
(a) Disconnect the washer hose from the rear washer motor and pump assembly, and drain the washer fluid.

HINT:

Use a container to collect the washer fluid.

P

4. REMOVE REAR WASHER MOTOR AND PUMP ASSEMBLY



(a) Disconnect the connector.

(b) Remove the rear washer motor and pump assembly.

INSPECTION

1. INSPECT REAR WASHER MOTOR AND PUMP ASSEMBLY

- (a) Remove the washer jar.
- (b) Disconnect the rear washer motor and pump connector.

HINT:

The check should be performed with the rear washer motor and pump installed on the washer jar.

- (c) Fill the washer jar with washer fluid.

*1



- (d) Connect a battery positive (+) lead to terminal 1 of the rear washer motor and pump, and a negative (-) lead to terminal 2.

- (e) Check that washer fluid flows from the washer jar.

OK:

Washer fluid flows from the washer jar.

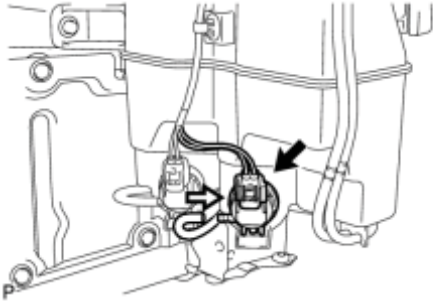
Text in Illustration

*1	Component without harness connected (Rear Washer Motor and Pump Assembly)
----	--

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

INSTALLATION

1. INSTALL REAR WASHER MOTOR AND PUMP ASSEMBLY



(a) Install the rear washer motor and pump assembly.

(b) Connect the connector.

(c) Connect the washer hose.

2. ADD WASHER FLUID_ INFO

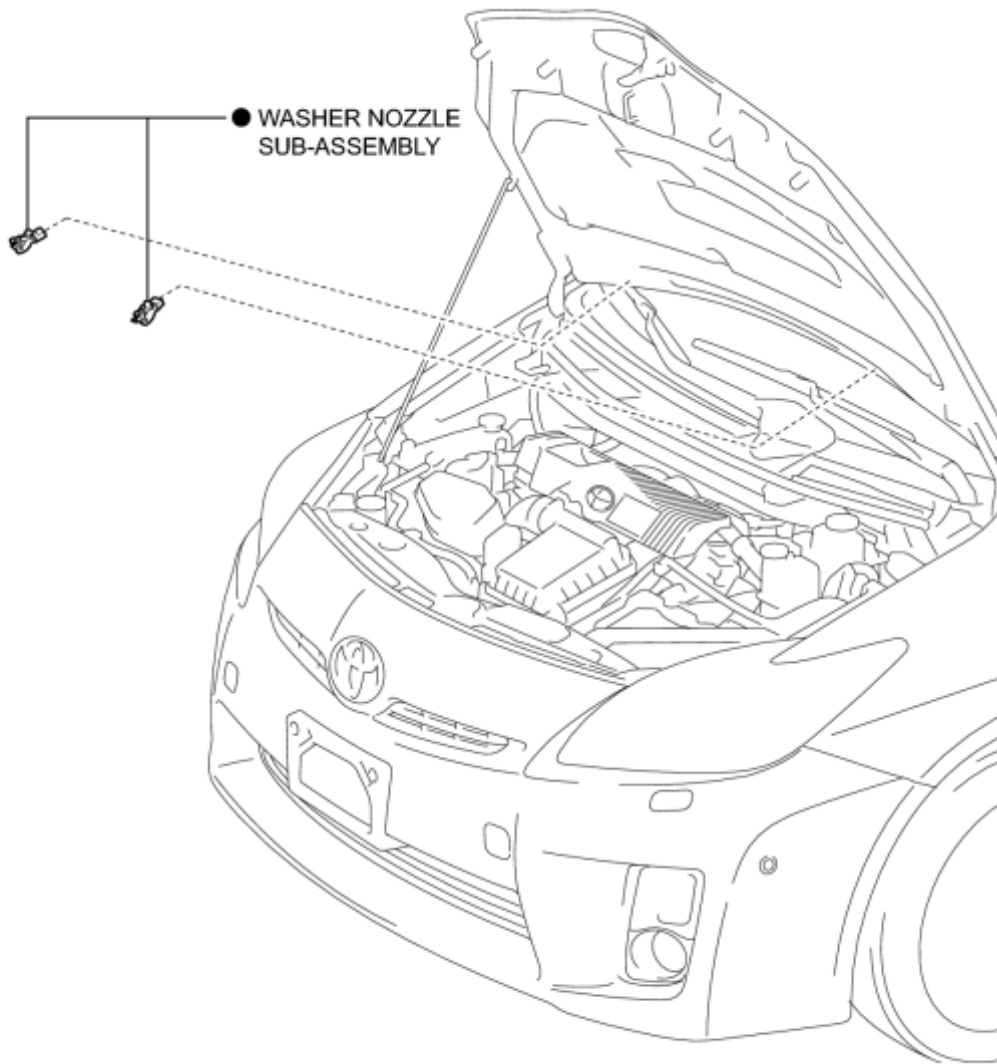
3. INSTALL FRONT FENDER LINER RH_ INFO

4. INSTALL FRONT WHEEL RH

Torque: **103 N·m (1050 kgf·cm, 76ft·lbf)**

COMPONENTS

ILLUSTRATION



● Non-reusable part
P

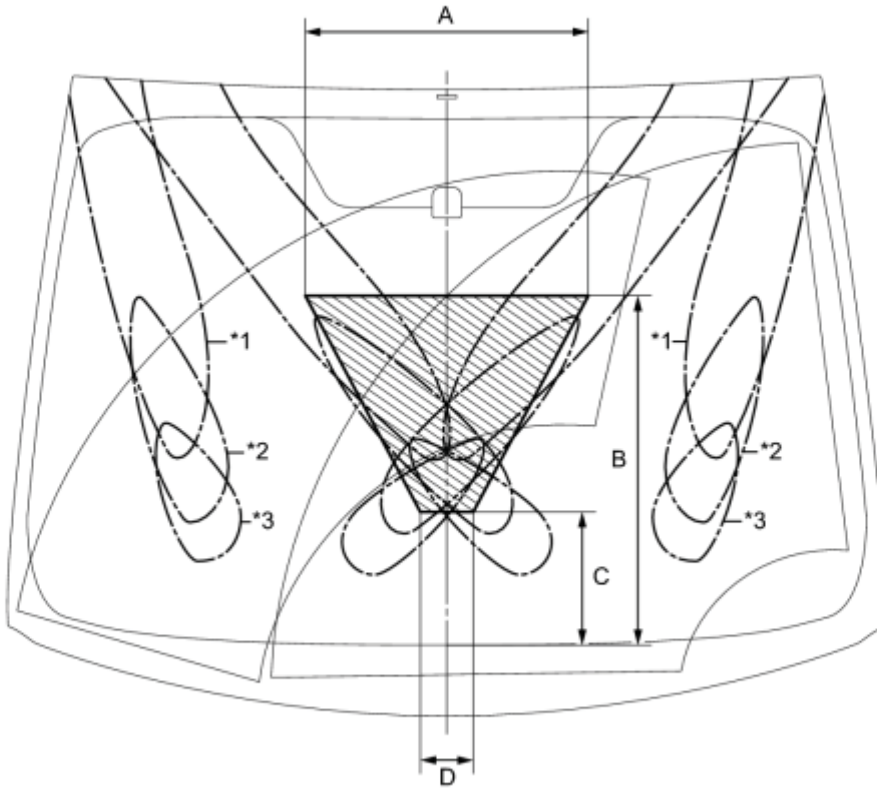
ON-VEHICLE INSPECTION

1. INSPECT WASHER NOZZLE SUB-ASSEMBLY

(a) With the engine running, check the position that the washer fluid hits the windshield.

Standard:

Washer fluid hits the windshield in the areas shown in the illustration.



P

Standard Clearance

Area	Measurement
A	443.7 mm (17.5 in.)
B	546.6 mm (21.5 in.)
C	208.2 mm (8.20 in.)
D	82.1 mm (3.23 in.)

Text in Illustration

*1	Upper Limit	*2	Standard
*3	Lower Limit	-	-

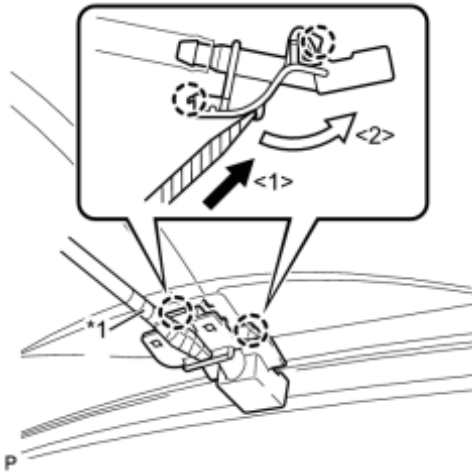
HINT:

If the result is not as specified, replace the malfunctioning washer nozzle sub-assembly.

REMOVAL

1. REMOVE WASHER NOZZLE SUB-ASSEMBLY

(a) Using a screwdriver, disengage the 2 claws and separate the washer nozzle sub-assembly as shown in the illustration.



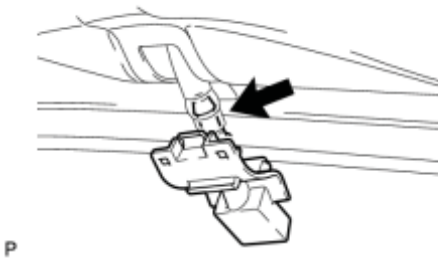
Text in Illustration

*1	Protective Tape
----	-----------------

- Be careful not to damage the windshield.
- Washer nozzles cannot be reused.

HINT:

Tape the screwdriver tip before use.



(b) Remove the washer nozzle sub-assembly from the washer hose.

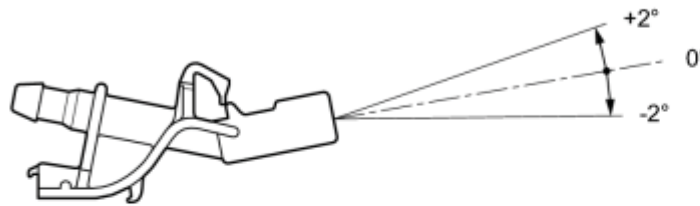
ADJUSTMENT

1. REMOVE WASHER NOZZLE SUB-ASSEMBLY [INFO](#)

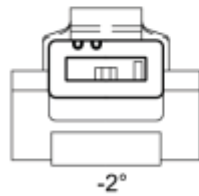
2. ADJUST WASHER NOZZLE SUB-ASSEMBLY

(a) Select a washer nozzle so that the contact area is within the standard. Replace the washer nozzle with the selected one.

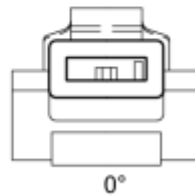
Available Washer Nozzles:



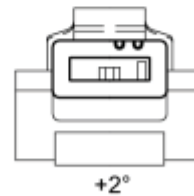
Washer Fluid
Spray Angle



-2°



0°



+2°

Part Number

85381-12340

85381-12330

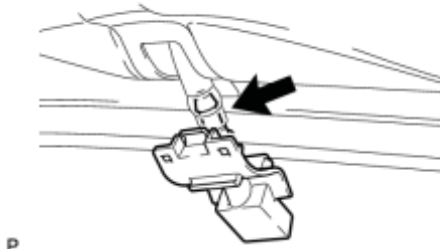
85381-12350

P

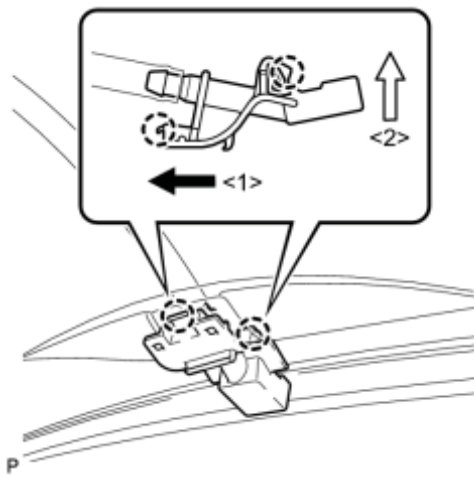
3. INSTALL WASHER NOZZLE SUB-ASSEMBLY [INFO](#)

INSTALLATION

1. INSTALL WASHER NOZZLE SUB-ASSEMBLY



(a) Connect a new washer nozzle sub-assembly to the washer hose.



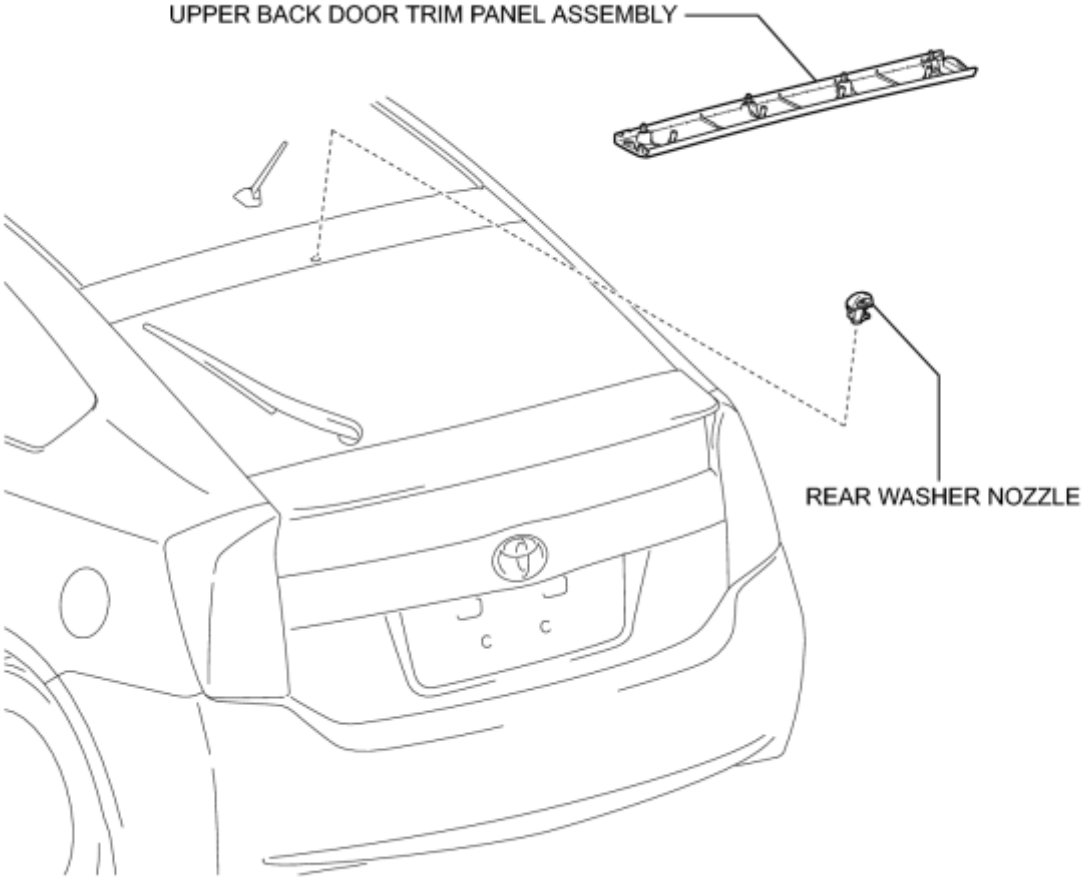
(b) Engage the 2 claws and install the washer nozzle sub-assembly as shown in the illustration.

2. INSPECT WASHER NOZZLE SUB-ASSEMBLY_ [INFO](#)

3. ADJUST WASHER NOZZLE SUB-ASSEMBLY_ [INFO](#)

COMPONENTS

ILLUSTRATION



P

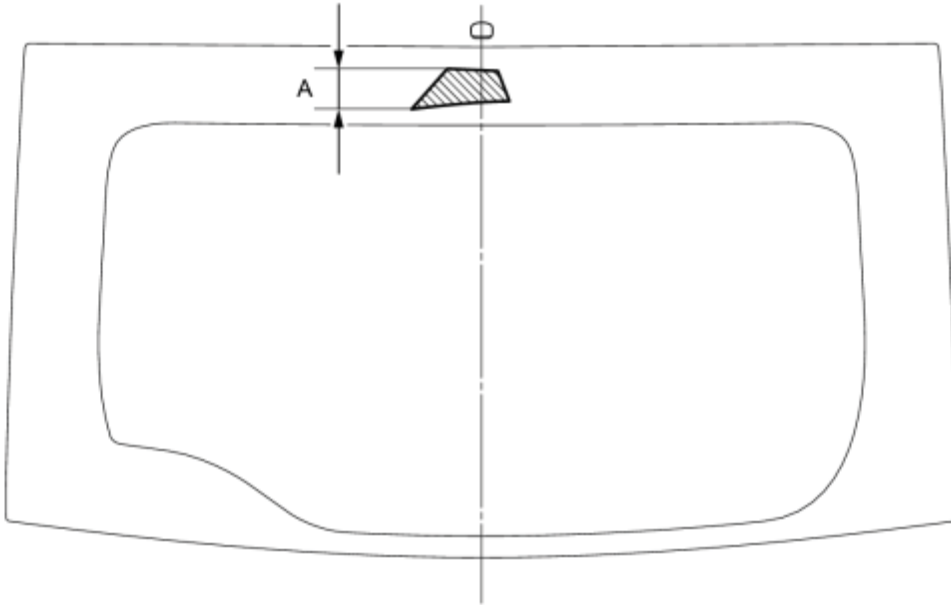
ON-VEHICLE INSPECTION

1. INSPECT REAR WASHER NOZZLE

(a) With the engine running, check that the center stream of washer fluid sprays on the windshield within the hatched area shown in the illustration.

Standard:

Washer fluid hits the windshield in the area shown in the illustration.



P

Standard Clearance

Area	Measurement
A	48.7 mm (1.92 in.)

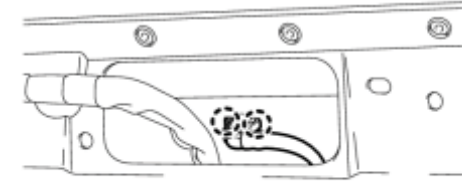
HINT:

If the result is not as specified, replace the malfunctioning rear washer nozzle.

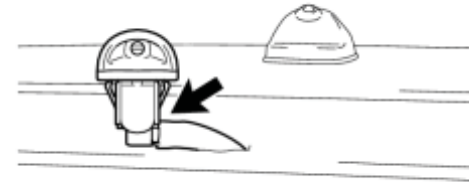
REMOVAL

1. REMOVE UPPER BACK DOOR TRIM PANEL ASSEMBLY INFO

2. REMOVE REAR WASHER NOZZLE



(a) Disengage the 2 claws.



(b) Disconnect the washer hose and remove the rear washer nozzle.

ADJUSTMENT

1. ADJUST REAR WASHER NOZZLE

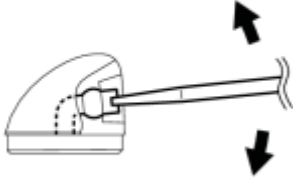
(a) Using a screwdriver, adjust the direction of the rear washer nozzle.

NOTICE:

Do not use a safety pin or other pointed tools. Doing so may damage the inside of the washer nozzle.

HINT:

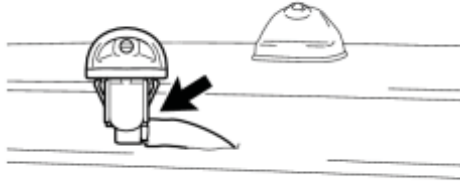
Use a thin-bladed screwdriver with an approximately 1 mm (0.0394 in.) thick tip.



P

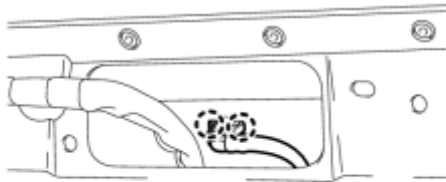
INSTALLATION

1. INSTALL REAR WASHER NOZZLE



(a) Connect the washer hose.

P



(b) Engage the 2 claws to install the rear washer nozzle.

P

2. INSTALL UPPER BACK DOOR TRIM PANEL ASSEMBLY_ [INFO](#)

3. INSPECT REAR WASHER NOZZLE_ [INFO](#)

4. ADJUST REAR WASHER NOZZLE_ [INFO](#)

PRECAUTION

NOTICE:

When disconnecting the cable from the negative (-) battery terminal, initialize the following system after the cable is reconnected.

System Name	See Procedure
Advanced Parking Guidance System	INFO

1. PRECAUTION OF WASHER NOZZLE ADJUSTMENT

(a) Do not clean or adjust the washer nozzle with a safety pin, etc. because:

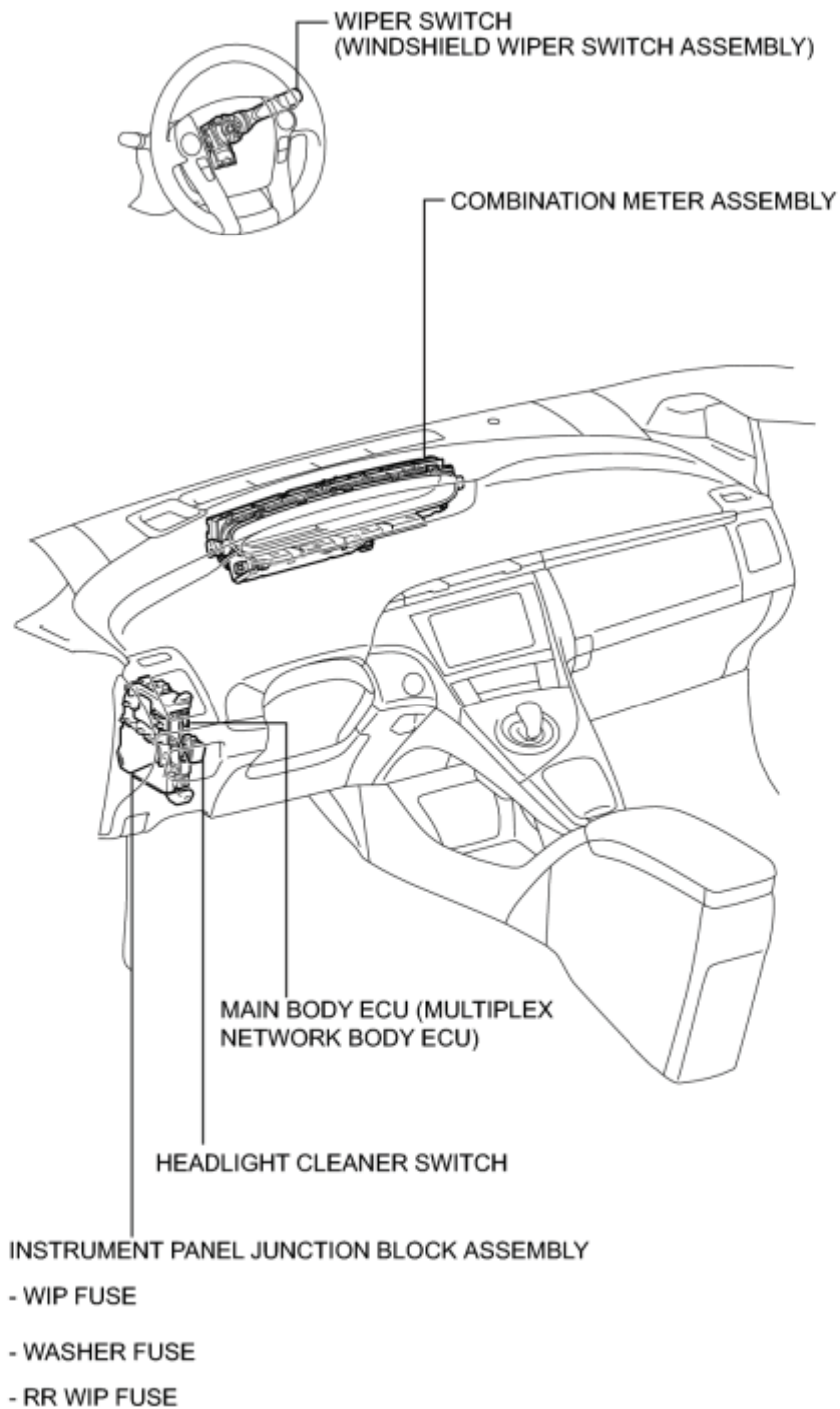
(1) the washer nozzle tip is made of resin and could be damaged.

(2) adjustment is not necessary for this spray type washer nozzle. If it is necessary to change the nozzle angle, replace the washer nozzle with one that has a different nozzle angle.

(b) If the washer nozzle is clogged with wax, etc., remove it and clean the nozzle hole with a soft resin brush or other cleaning tool.

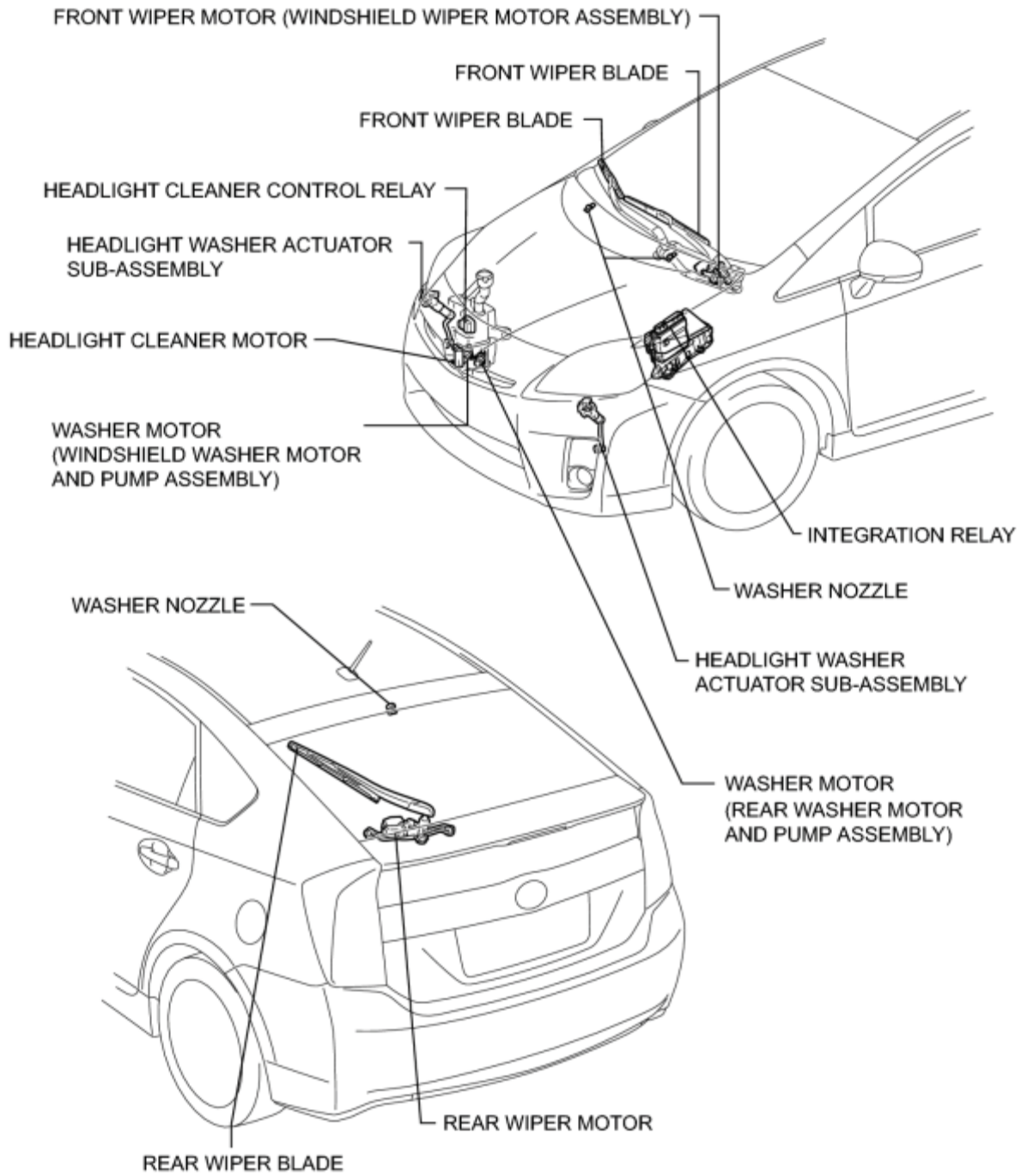
PARTS LOCATION

ILLUSTRATION



H

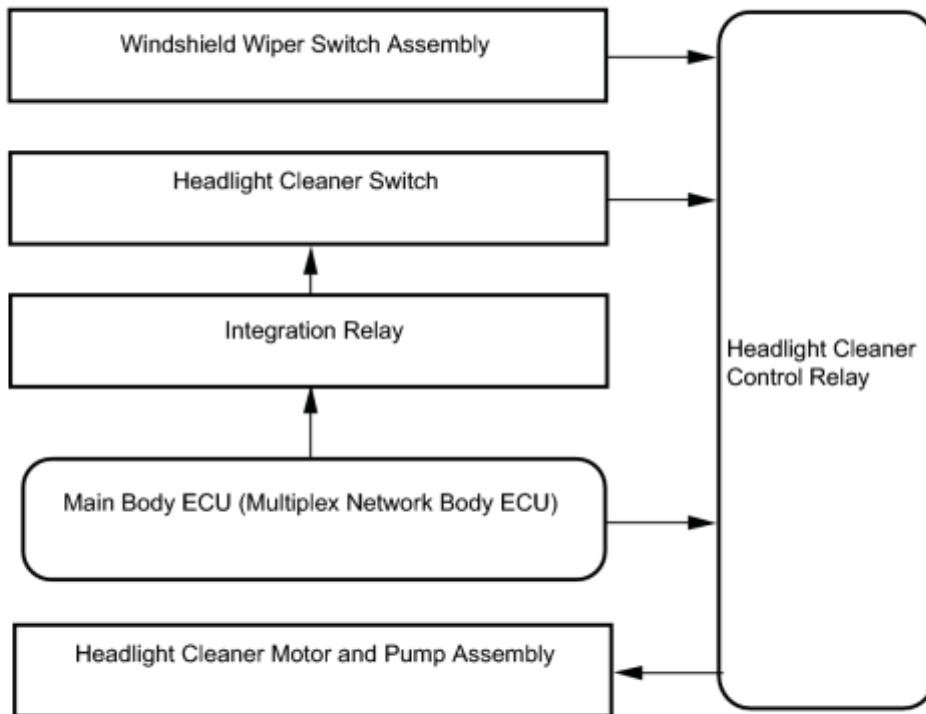
ILLUSTRATION



H

SYSTEM DIAGRAM

1. HEADLIGHT CLEANER SYSTEM



SYSTEM DESCRIPTION

1. HEADLIGHT CLEANER SYSTEM

General

- The headlight cleaner system operates when the headlight cleaner switch is pushed ON.
- The headlight cleaner system also operates when the front washer switch is first operated with the headlights on.

HOW TO PROCEED WITH TROUBLESHOOTING

HINT:

Use the following procedure to troubleshoot the wiper and washer system.

1. VEHICLE BROUGHT TO WORKSHOP

NEXT



2. CUSTOMER PROBLEM ANALYSIS AND SYMPTOM CHECK

NEXT



3. INSPECT BATTERY VOLTAGE

Standard Voltage:

11 to 14 V

If the voltage is below 11 V, recharge or replace the battery before proceeding to the next step.

NEXT



4. PROBLEM SYMPTOMS TABLE

Result:

Result	Proceed to
Fault is not listed in problem symptoms table	A
Fault is listed in problem symptoms table	B

B ▶ Go to step 6

A



5. OVERALL ANALYSIS AND TROUBLESHOOTING

(a) Terminals of ECU 

(b) Inspection

(c) On-vehicle inspection

NEXT



6.	ADJUST, REPAIR OR REPLACE
----	---------------------------

NEXT



7.	CONFIRMATION TEST
----	-------------------

NEXT  **END**

PROBLEM SYMPTOMS TABLE

HINT:

Use the table below to help determine the cause of problem symptoms. If multiple suspected areas are listed, 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.

Front Wiper and Washer

Symptom	Suspected Area	See page
Front wipers do not operate at all	WIP fuse	-
	Windshield wiper motor assembly	INFO
	Windshield wiper switch assembly	INFO
	Harness or connector	-
Front wipers do not operate in INT	Windshield wiper motor assembly	INFO
	Windshield wiper switch assembly	INFO
	Harness or connector	-
Front wipers do not operate in LO	Windshield wiper switch assembly	INFO
	Windshield wiper motor assembly	INFO
	Harness or connector	-
Front wipers do not operate in HI	Windshield wiper switch assembly	INFO
	Windshield wiper motor assembly	INFO
	Harness or connector	-
Front washer motor does not operate	Windshield washer motor and pump assembly	INFO
	Windshield wiper switch assembly	INFO
	Harness or connector	-
Washer fluid does not flow	Washer hose and nozzle	-
Front wipers do not operate when front washer switch is on	Windshield wiper switch assembly	INFO
	Windshield wiper motor assembly	INFO
	Harness or connector	-
When the front wiper switch is off, the wiper blades do not park or park in the wrong position	Front wiper arm installation position	INFO
	Windshield wiper motor assembly	INFO

Rear Wiper and Washer

Symptom	Suspected Area	See page
Rear wiper does not operate at all	RR WIP fuse	-
	Rear wiper motor assembly	INFO

Symptom	Suspected Area	See page
	Windshield wiper switch assembly	INFO
	Harness or connector	-
Rear wiper does not operate in LO or HI	Rear wiper motor assembly	INFO
	Windshield wiper switch assembly	INFO
	Harness or connector	-
Rear washer motor does not operate	RR WIP fuse	-
	Rear washer motor assembly	INFO
	Windshield wiper switch assembly	INFO
	Harness or connector	-
Washer fluid does not flow	Washer hose and nozzle	-
When the rear wiper switch is off, the wiper blade does not park or park in the wrong position	Rear wiper arm installation position	INFO
	Rear wiper motor assembly	INFO

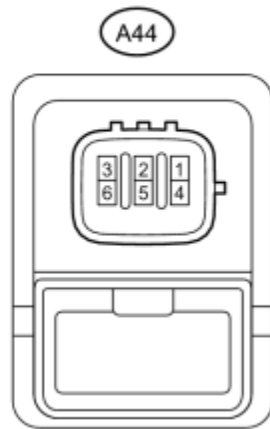
Headlight Cleaner System

Symptom	Suspected Area	See page
Headlight cleaner system does not operate when the headlight cleaner switch is operated	IG power source circuit	INFO
	Headlight cleaner switch circuit	INFO
	Headlight cleaner motor and relay circuit	INFO
	Headlight cleaner control relay	INFO
Headlight cleaner system does not operate when the front washer switch is operated	IG power source circuit	INFO
	Headlight signal circuit	INFO
	Washer signal circuit	INFO
	Headlight cleaner motor and relay circuit	INFO
	Headlight cleaner control relay	INFO

TERMINALS OF ECU

1. CHECK HEADLIGHT CLEANER CONTROL RELAY

- (a) Disconnect the A44 headlight cleaner control relay connector.
- (b) Measure the voltage and resistance according to the value(s) in the table below.



H

Terminal No. (Symbol)	Wiring Color	Terminal Description	Condition	Specified Condition
A44-1 (HDLO) - A44-4 (E)	L - W-B	Low beam headlight signal	Light control switch in head position	Below 1 V
			Light control switch off	11 to 14 V
A44-2 (H) - A44-4 (E)	LG - W-B	Headlight cleaner switch operation signal	Headlight cleaner switch off	11 to 14 V
			Headlight cleaner switch on	Below 1 V
A44-3 (IG) - A44-4 (E)	B - W-B	Power switch on (IG) signal (Power source circuit)	Power switch off	Below 1 V
			Power switch on (IG)	11 to 14 V
A44-4 (E) - Body ground	W-B - Body ground	Body ground	Always	Below 1 Ω
A44-5 (FRWA) - A44-4 (E)	R - W-B	Front washer switch signal	Front washer switch off	11 to 14 V
			Front washer switch on	Below 1 V

If the result is not as specified, there may be a malfunction in the wire harness.

DESCRIPTION

The headlight cleaner control relay receives the windshield washer operation signal.

WIRING DIAGRAM



INSPECTION PROCEDURE

PROCEDURE

1. CHECK OPERATION

(a) Check the operation of the front wiper and washer system.

OK:

Front wiper and washer system operates normally.

NG ► GO TO PROBLEM SYMPTOMS TABLE

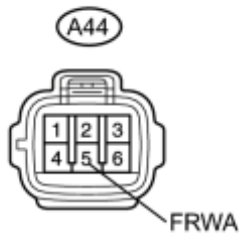
OK



2. CHECK HARNESS AND CONNECTOR (WINDSHIELD WIPER SWITCH ASSEMBLY - RELAY)

(a) Disconnect the A44 headlight cleaner control relay connector.

*1



N

(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

Tester Connection	Condition	Specified Condition
A44-5 (FRWA) - Body ground	Front washer switch off	11 to 14 V
	Front washer switch on	Below 1 V

Text in Illustration

*1	Front view of wire harness connector (to Headlight Cleaner Control Relay)
----	--

NG ► REPAIR OR REPLACE HARNESS OR CONNECTOR

OK ► PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE

DESCRIPTION

The headlight cleaner control relay detects the low beam headlights status.

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

First check that the low beam headlights operate normally.

PROCEDURE

- | | |
|----|---|
| 1. | CHECK HARNESS AND CONNECTOR (INTEGRATION RELAY - HEADLIGHT CLEANER CONTROL RELAY) |
|----|---|

(a) Disconnect the A44 headlight cleaner control relay connector.

*1



N

(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

Tester Connection	Switch Condition	Specified Condition
A44-1 (HDLO) - Body ground	Light control switch in head position	Below 1 V
	Light control switch off	11 to 14 V

Text in Illustration

*1	Front view of wire harness connector (to Headlight Cleaner Control Relay)
----	--

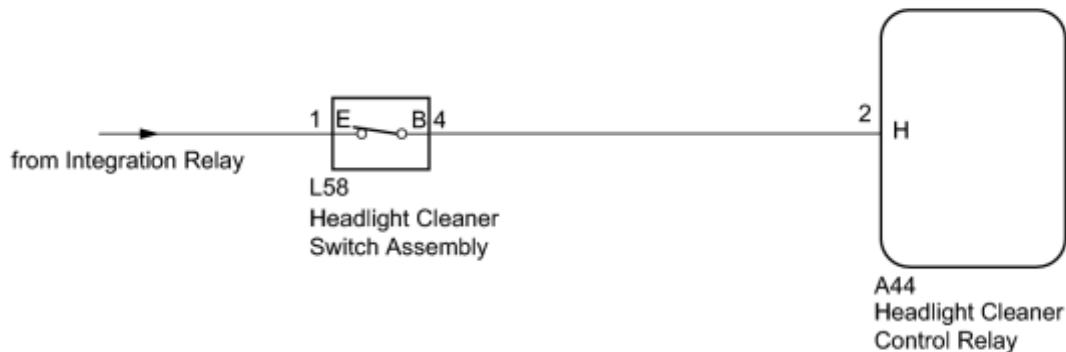
NG ► REPAIR OR REPLACE HARNESS OR CONNECTOR

OK ► PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE

DESCRIPTION

This circuit detects the conditions (on or off) of the headlight cleaner switch assembly.

WIRING DIAGRAM

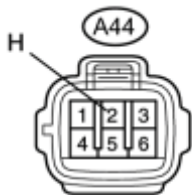


INSPECTION PROCEDURE

PROCEDURE

1. INSPECT HEADLIGHT CLEANER CONTROL RELAY (H SIGNAL)

*1



- (a) Disconnect the A44 headlight cleaner control relay connector.

N

- (b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

Tester Connection	Switch Condition	Specified Condition
A44-2 (H) - Body ground	Light control switch in head and headlight cleaner switch on	11 to 14 V
A44-2 (H) - Body ground	Headlight cleaner switch off	Below 1 V

Text in Illustration

*1	Front view of wire harness connector (to Headlight Cleaner Control Relay)
----	--

NG **INSPECT HEADLIGHT CLEANER SWITCH ASSEMBLY**

OK **PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE**

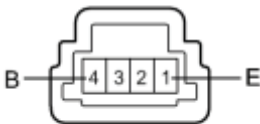
2.	INSPECT HEADLIGHT CLEANER SWITCH ASSEMBLY
----	---

(a) Remove the headlight cleaner switch assembly **INFO**.

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

Standard Resistance:

*1



H

Tester Connection	Switch Condition	Specified Condition
1 (E) - 4 (B)	Headlight cleaner switch off	10 kΩ or higher
1 (E) - 4 (B)	Headlight cleaner switch on	Below 1 Ω

Text in Illustration

*1	Component without harness connected (Headlight Cleaner Switch Assembly)
----	--

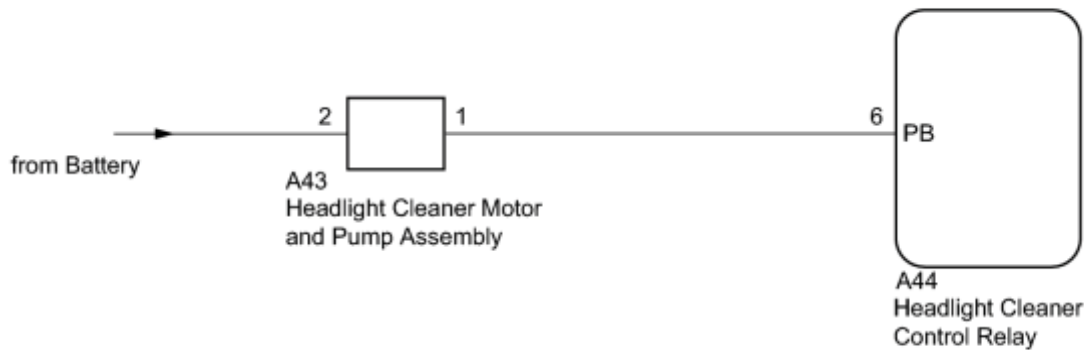
NG **REPLACE HEADLIGHT CLEANER SWITCH ASSEMBLY**

OK **REPAIR OR REPLACE HARNESS OR CONNECTOR (MAIN BODY ECU - HEADLIGHT CLEANER CONTROL RELAY)**

DESCRIPTION

The headlight cleaner control relay controls the headlight cleaner motor and pump assembly.

WIRING DIAGRAM



INSPECTION PROCEDURE

PROCEDURE

1. INSPECT HEADLIGHT CLEANER MOTOR AND PUMP ASSEMBLY

HINT:

The following check should be performed with the headlight cleaner motor and pump assembly installed to the washer jar.

- (a) Fill the washer jar with washer fluid.

*1



- (b) Connect a battery positive (+) lead to terminal 2 of the headlight cleaner motor and pump assembly, and a battery negative (-) lead to terminal 1.

(c) Check that washer fluid flows from the washer jar.

OK:

Washer fluid is pumped from the washer jar.

Text in Illustration

*1	Component without harness connected (Headlight Cleaner Motor and Pump Assembly)
----	--

NG ▶ REPLACE HEADLIGHT CLEANER MOTOR AND PUMP ASSEMBLY

OK



2.	CHECK HARNESS AND CONNECTOR (HEADLIGHT CLEANER MOTOR CIRCUIT)
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(a) Connect the headlight cleaner motor and pump assembly connector.

*1



(b) Disconnect the A44 headlight cleaner control relay connector.

N

(c) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

Tester Connection	Condition	Specified Condition
A44-6 (PB) - Body ground	Always	11 to 14 V

Text in Illustration

*1	Front view of wire harness connector (to Headlight Cleaner Control Relay)
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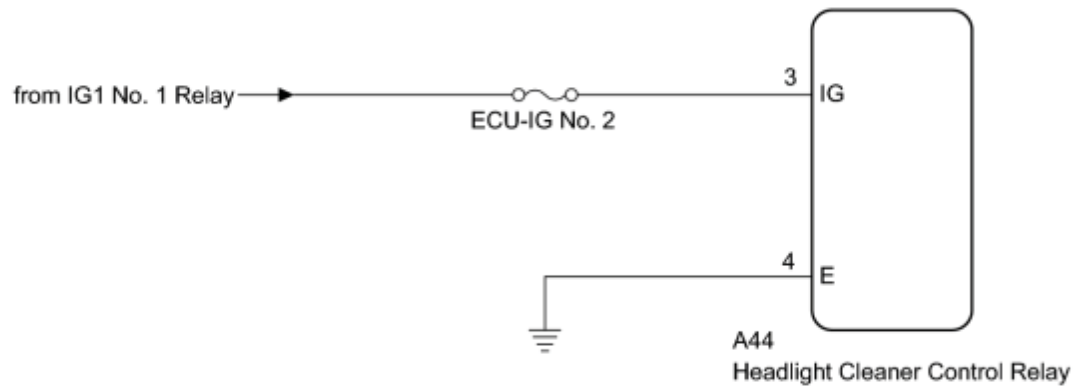
NG ▶ REPAIR OR REPLACE HARNESS OR CONNECTOR (HEADLIGHT CLEANER CONTROL RELAY - BATTERY)

OK  **PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE**

DESCRIPTION

This circuit provides power to the headlight cleaner control relay.

WIRING DIAGRAM



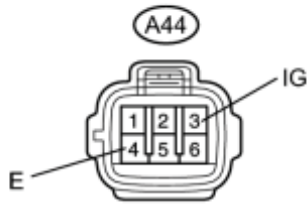
INSPECTION PROCEDURE

PROCEDURE

- | | |
|----|---|
| 1. | CHECK HARNESS AND CONNECTOR (HEADLIGHT CLEANER CONTROL RELAY - BATTERY AND BODY GROUND) |
|----|---|

(a) Disconnect the A44 headlight cleaner control relay connector.

*1



N

(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

Tester Connection	Condition	Specified Condition
A44-3 (IG) - Body ground	Power switch off	Below 1 V
	Power switch on (IG)	11 to 14 V

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

Standard Resistance:

Tester Connection	Condition	Specified Condition
A44-4 (E) - Body ground	Always	Below 1 Ω

Text in Illustration

*1	Front view of wire harness connector (to Headlight Cleaner Control Relay)
----	--

NG ► REPAIR OR REPLACE HARNESS OR CONNECTOR

OK ► PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE

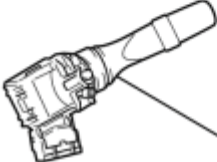
COMPONENTS

ILLUSTRATION

UPPER STEERING
COLUMN COVER



LOWER STEERING
COLUMN COVER



WINDSHIELD WIPER
SWITCH ASSEMBLY

P

REMOVAL

1. REMOVE LOWER STEERING COLUMN COVER

NOTICE:

Removing the lower steering column cover in the incorrect order will cause the lower steering column cover to break.

(a) Release the tilt and telescopic lever, and fully extend and lower the steering column assembly.

(b) Lock the tilt and telescopic lever.



(c) Push the right and left sides of the lower steering column cover to disengage the 4 claws.

P



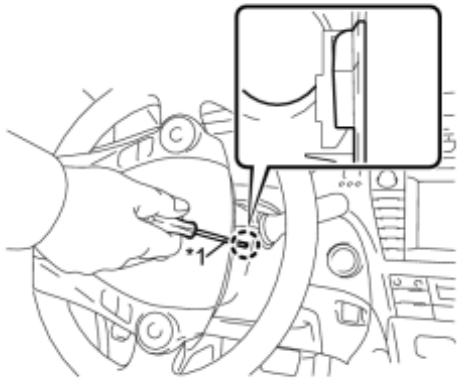
(d) Insert fingers into the opening of the tilt lever of the lower steering column cover to disengage the claw.

HINT:

Spread the claw to disengage it.

P

(e) Turn the steering wheel assembly to the right.



P

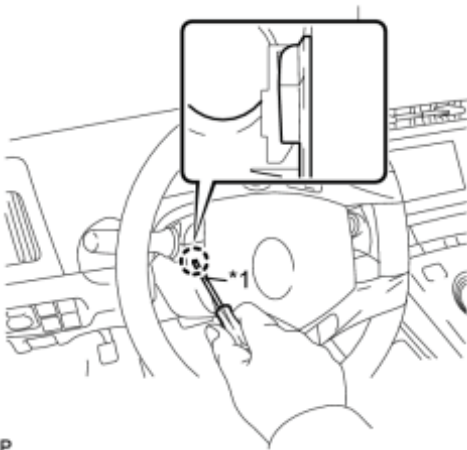
(f) Using a screwdriver, disengage the claw as shown in the illustration.

Text in Illustration

*1	Protective Tape
----	-----------------

HINT:

Tape the screwdriver tip before use.



P

(g) Turn the steering wheel assembly to the left.

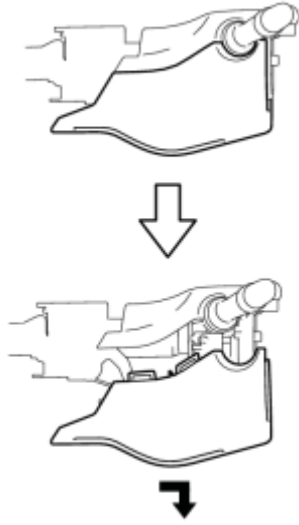
(h) Using a screwdriver, disengage the claw as shown in the illustration.

Text in Illustration

*1	Protective Tape
----	-----------------

HINT:

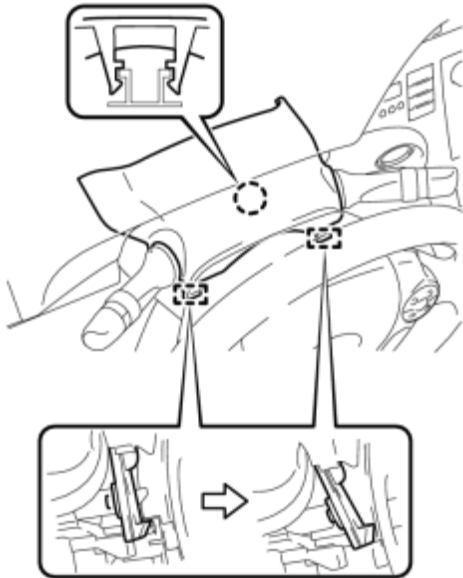
Tape the screwdriver tip before use.



(i) Remove the lower steering column cover as shown in the illustration.

c

2. REMOVE UPPER STEERING COLUMN COVER

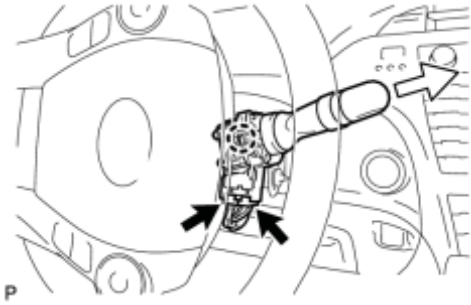


(a) Disengage the claw and 2 pins, and remove the upper steering column cover.

P

3. REMOVE WINDSHIELD WIPER SWITCH ASSEMBLY

(a) Turn the steering wheel assembly to the right.



(b) Disconnect the 2 connectors.

(c) Disengage the claw and remove the windshield wiper switch assembly as shown in the illustration.

NOTICE:

If the claw is pushed with excessive force, it may break.

INSPECTION

1. INSPECT WINDSHIELD WIPER SWITCH ASSEMBLY

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

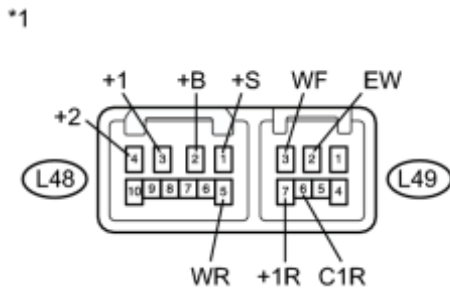
Standard Resistance:

Front Washer Switch

Rear Wiper Switch

Rear Washer Switch

Front Wiper Switch



Tester Connection	Switch Condition	Specified Condition
L48-1 (+S) - L48-3 (+1)	OFF	Below 1 Ω
	INT	
L48-2 (+B) - L48-3 (+1)	MIST	
	LO	
L48-2 (+B) - L48-4 (+2)	HI	

Tester Connection	Switch Condition	Specified Condition
L49-2 (EW) - L49-3 (WF)	ON	Below 1 Ω
	OFF	10 k Ω or higher

Tester Connection	Switch Condition	Specified Condition
L49-6 (C1R) - L49-2 (EW)	OFF	10 k Ω or higher
L49-7 (+1R) - L49-2 (EW)		
L49-6 (C1R) - L49-2 (EW)	INT	Below 1 Ω
L49-7 (+1R) - L49-2 (EW)	HI	Below 1 Ω

Tester Connection	Switch Condition	Specified Condition
L48-5 (WR) - L49-2 (EW)	OFF	10 k Ω or higher
L49-7 (+1R) - L49-2 (EW)		
L48-5 (WR) - L49-2 (EW)	WASH	Below 1 Ω
L48-5 (WR) - L49-2 (EW)	ON + WASH	Below 1 Ω
L49-7 (+1R) - L49-2 (EW)		

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

Text in Illustration

*1	Component without harness connected (Windshield Wiper Switch Assembly)
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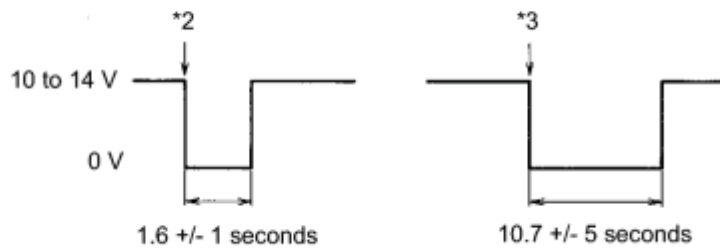
(b) Check the intermittent operation.

1. Connect a voltmeter positive (+) lead to terminal L48-3 (+1) and a negative (-) lead to terminal L49-2 (EW).
2. Connect a battery positive (+) lead to terminal L48-2 (+B) and a negative (-) lead to terminal L49-2 (EW) and L48-1 (+S).
3. Turn the wiper switch to the INT position.
4. Connect a battery positive (+) lead to terminal L48-1 (+S) for 5 seconds.
5. Connect a battery negative (-) lead to terminal L48-1 (+S). Operate the intermittent wiper relay and check the voltage between terminals L48-3 (+1) and L49-2 (EW).

OK:

Voltage changes as shown in the illustration.

*1



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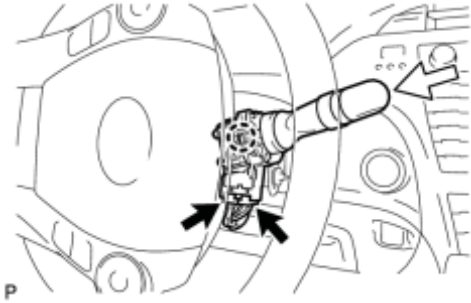
If the result is not as specified, replace the windshield wiper switch assembly.

Text in Illustration

*1	Voltage between terminals L48-3 (+1) and L49-2 (EW)	*2	FAST: Connect battery negative lead to terminal L48-1 (+S)
*3	SLOW: Connect battery negative lead to terminal L48-1 (+S)	-	-

INSTALLATION

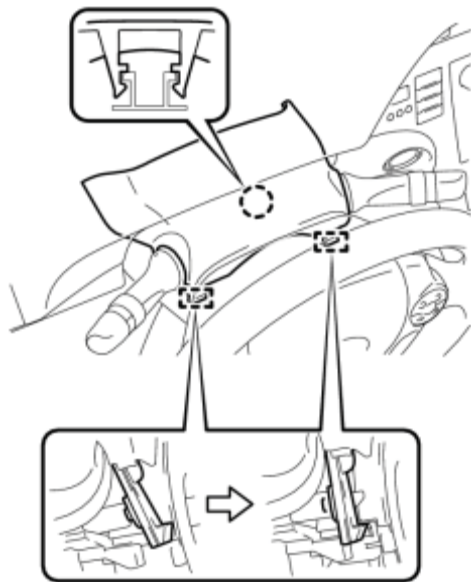
1. INSTALL WINDSHIELD WIPER SWITCH ASSEMBLY



(a) Engage the claw and install the windshield wiper switch assembly as shown in the illustration.

(b) Connect the 2 connectors.

2. INSTALL UPPER STEERING COLUMN COVER



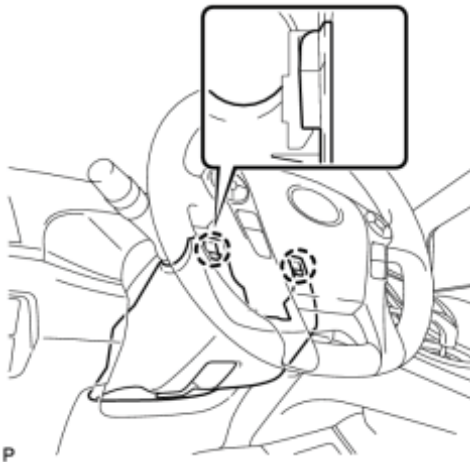
(a) Engage the claw and 2 pins to install the upper steering column cover.

3. INSTALL LOWER STEERING COLUMN COVER

NOTICE:

If the lower steering column cover is installed in the incorrect order, it will not be possible to assemble the lower steering column cover.

(a) Engage the 2 claws to install the lower steering column cover.



P



(b) Engage the 4 claws.

P



(c) Engage the claw.

HINT:

Press the area around the claw to engage it.