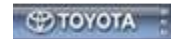
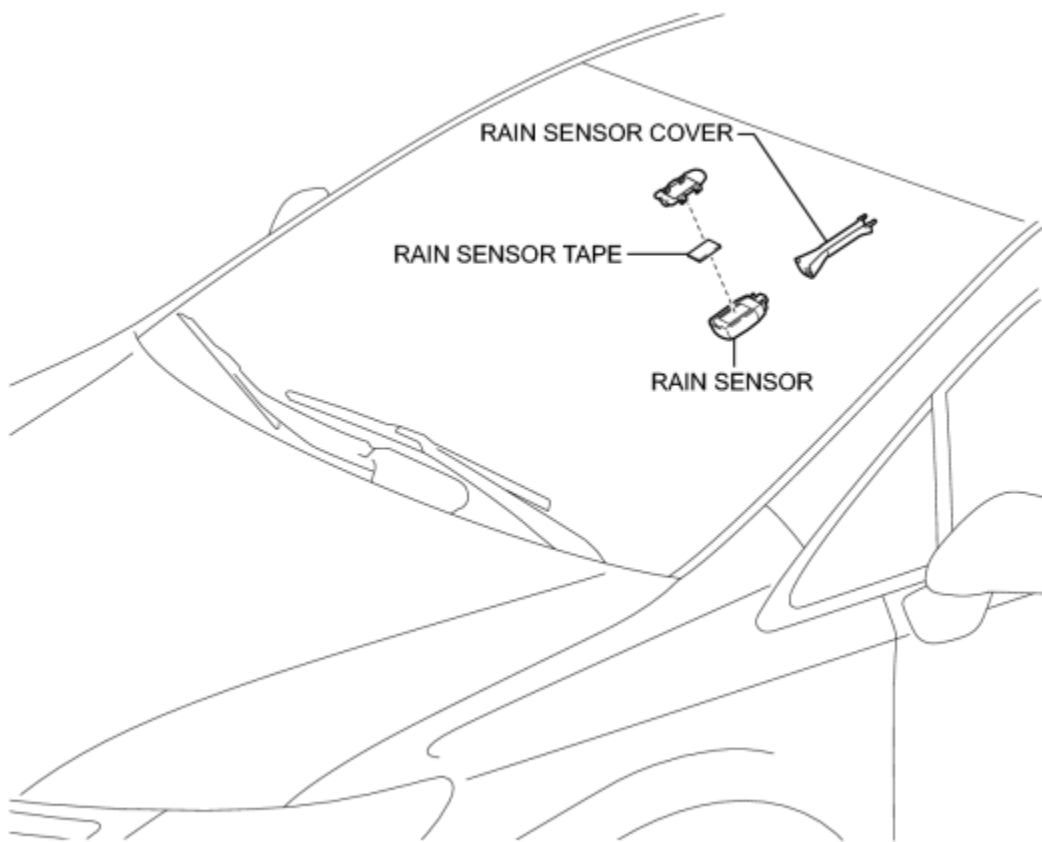


| | | |
|---|----------------------|--------------------------------|
| Last Modified: 5-25-2010 | 6.4 K | From: 200907 |
| Model Year: 2010 | Model: HS250H | Doc ID: RM000001OUW00KX |
| Title: WIPER / WASHER: RAIN SENSOR: COMPONENTS (2010 HS250H) | | |

COMPONENTS

ILLUSTRATION

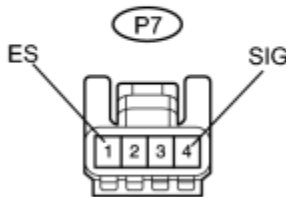


| | | |
|--|----------------------|--------------------------------|
| Last Modified: 5-25-2010 | 6.4 G | From: 200907 |
| Model Year: 2010 | Model: HS250H | Doc ID: RM000002YA900QX |
| Title: WIPER / WASHER: RAIN SENSOR: ON-VEHICLE INSPECTION (2010 HS250H) | | |

ON-VEHICLE INSPECTION

1. INSPECT RAIN SENSOR

*1



(a) Disconnect the P7 rain sensor connector.

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

Standard Resistance:

| Tester Connection | Condition | Specified Condition |
|-------------------------|-----------|---------------------|
| P7-1 (ES) - Body ground | Always | Below 1 Ω |

If the result is not as specified, repair or replace the harness or connector.

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

Standard Voltage:

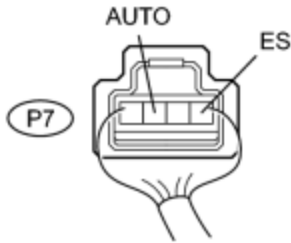
| Tester Connection | Condition | Specified Condition |
|--------------------------|----------------------|---------------------|
| P7-4 (SIG) - Body ground | Power switch on (IG) | 7.5 to 8.5 V |

Text in Illustration

| | |
|----|--|
| *1 | Front view of wire harness connector (to Rain Sensor) |
|----|--|

If the result is not as specified, repair or replace the harness or connector.

*1



(d) Reconnect the rain sensor connector.

N

(e) Connect an oscilloscope to the rain sensor connector.

(f) Check for pulses.

OK:

| Tester Connection | Condition | Specified Condition |
|-------------------------|----------------------|---------------------|
| P7-3 (AUTO) - P7-1 (ES) | Power switch on (IG) | Pulse generation |

Text in Illustration

| | |
|----|---|
| *1 | Component with harness connected (Rain Sensor) |
|----|---|

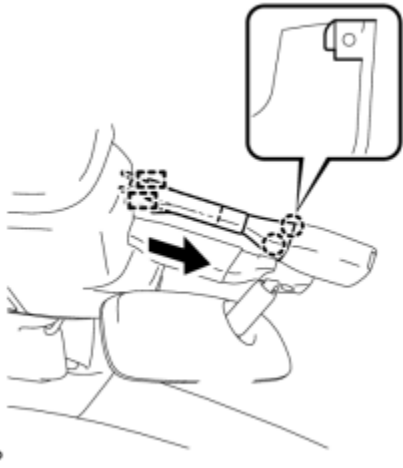
If the result is not as specified, the rain sensor may have a malfunction.



| | | |
|--|----------------------|--------------------------------|
| Last Modified: 5-25-2010 | 6.4 A | From: 200907 |
| Model Year: 2010 | Model: HS250H | Doc ID: RM000001OUX00KX |
| Title: WIPER / WASHER: RAIN SENSOR: REMOVAL (2010 HS250H) | | |

REMOVAL

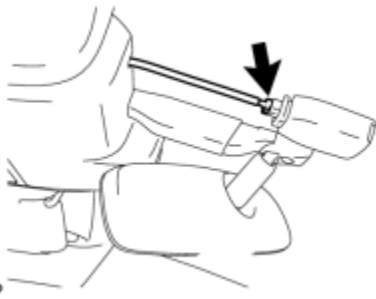
1. REMOVE RAIN SENSOR COVER



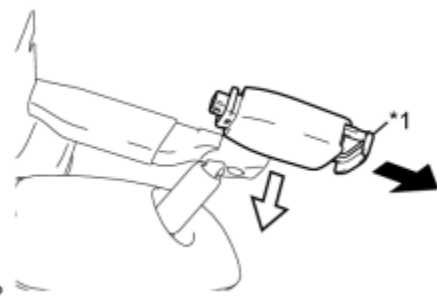
(a) Disengage the 2 guides and disconnect the rain sensor cover as shown in the illustration.

(b) Disengage the 2 claws and remove the rain sensor cover.

2. REMOVE RAIN SENSOR



(a) Disconnect the connector.



(b) Release the stopper by pulling the stopper down and disconnect the rain sensor as shown in the illustration.

Text in Illustration

*1

Stopper

3. CLEAN WINDSHIELD GLASS

HINT:

- Rain sensor tape is reusable. Only replace the tape if it is damaged or contaminated.

- Check that the rain sensor tape does not remain on the windshield glass. If it does, remove it before installing the rain sensor.



| | | |
|---|----------------------|--------------------------------|
| Last Modified: 5-25-2010 | 6.4 A | From: 200907 |
| Model Year: 2010 | Model: HS250H | Doc ID: RM000001OUV00KX |
| Title: WIPER / WASHER: RAIN SENSOR: INSTALLATION (2010 HS250H) | | |

INSTALLATION

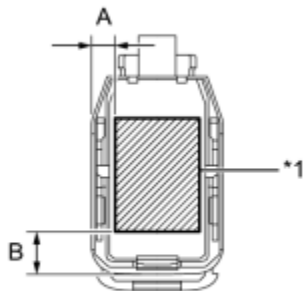
1. INSTALL RAIN SENSOR TAPE

HINT:

Rain sensor tape is reusable. Only replace the tape if it is damaged or contaminated.

(a) Clean the rain sensor sensing portion with a piece of cloth, etc.

(b) Peel off the smaller release sheet, and then attach the rain sensor tape on the rain sensor sensing portion as shown in the illustration.



| Standard Clearance | |
|-----------------------------|---------------------|
| Area | Measurement |
| A | 7.25 mm (0.285 in.) |
| B | 13.5 mm (0.532 in.) |
| Text in Illustration | |
| *1 | Rain Sensor Tape |

P

NOTICE:

Use your fingers to push out any air bubbles from under the tape.

2. INSTALL RAIN SENSOR

(a) Clean the windshield glass with a piece of cloth, etc.

NOTICE:

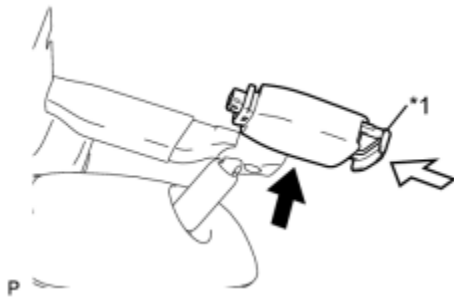
- Make sure that there is no rain sensor tape residue remaining on the windshield glass. If there is, remove the residue.
- If there is any rain sensor tape residue remaining on the windshield glass, replace the tape.

(b) When installing a new rain sensor or replacing the rain sensor tape:

(1) Peel off the release sheet.

HINT:

Do not touch the silicone coated surfaces.



(c) Gradually attach the rain sensor to the glass surface to prevent air bubbles from forming between them.

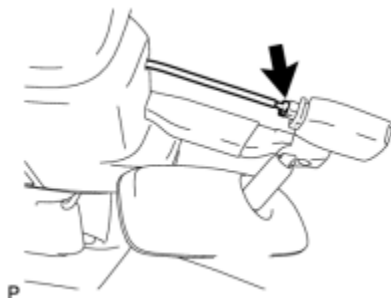
HINT:

Do not touch the silicone coated or glass surfaces.

(d) Push in the stopper.

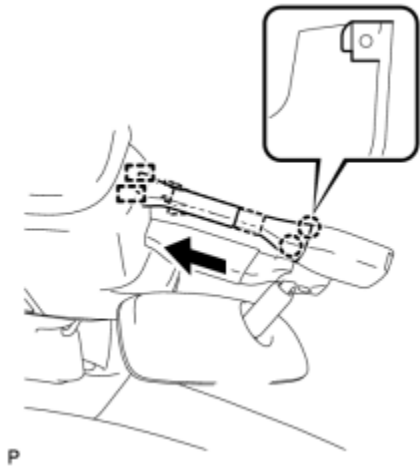
Text in Illustration

| | |
|----|---------|
| *1 | Stopper |
|----|---------|



(e) Connect the connector.

3. INSTALL RAIN SENSOR COVER



(a) Engage the 2 claws and connect the rain sensor cover.

(b) Engage the 2 guides and install the rain sensor cover as shown in the illustration.

