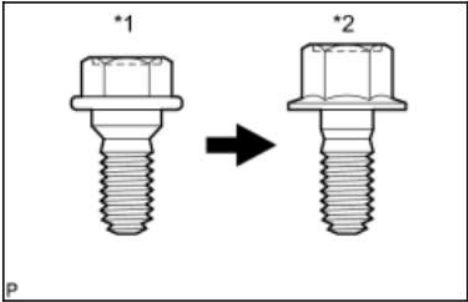


Last Modified: 3-27-2012	6.4 N	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000XB8085X
Title: DOOR / HATCH: FRONT DOOR: ADJUSTMENT (2013 FR-S)		

ADJUSTMENT



HINT:

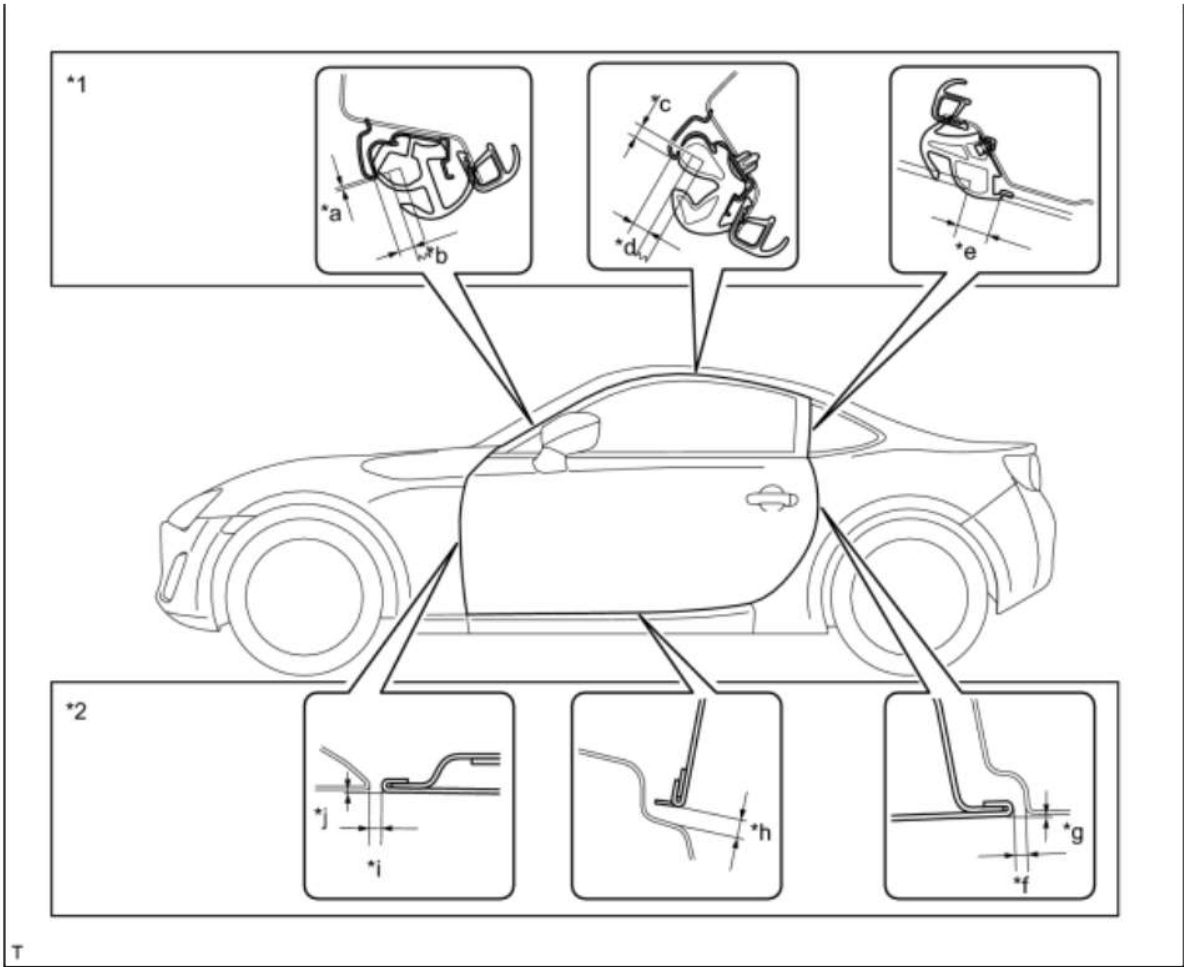
- Use the same procedure for both the RH and LH sides.
- The following procedure is for the LH side.
- Centering bolts are used to mount the door hinge to the vehicle body and door. The door cannot be adjusted with the centering bolts installed on it. Substitute the centering bolts with standard bolts when making adjustments.
- Specified torque for standard bolts is shown in the standard bolt chart [INFO](#) .

Text in Illustration

*1	Centering Bolt
*2	Standard Bolt

1. INSPECT FRONT DOOR

- (a) Check that the clearance measurements of areas *a through *j are within each standard range.



Standard Clearance

AREA	DIMENSION	AREA	DIMENSION
*a	0.5 mm (0.0197 in.)	*b	7.0 mm (0.2756 in.)
*c	5.0 mm (0.1969 in.)	*d	6.7 mm (0.2638 in.)
*e	13.5 to 16.5 mm (0.5315 to 0.6496 in.)	*f	2.5 to 5.5 mm (0.0984 to 0.2165 in.)
*g	0.0 to 1.5 mm (0.0 to 0.0591 in.)	*h	4.8 to 7.8 mm (0.1890 to 0.3071 in.)
*i	3.1 to 5.6 mm (0.122 to 0.220 in.)	*j	-1.0 to 1.5 mm (-0.0394 to 0.0591 in.)

Text in Illustration

*1	Front Glass	*2	Front Door
----	-------------	----	------------

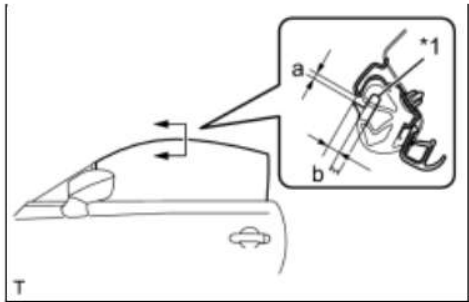
2. ADJUST FRONT DOOR GLASS

(a) Using a SST, check that the clearance measurements of areas "a" to "b" are within each standard range .

SST: 09812-18010

Text in Illustration

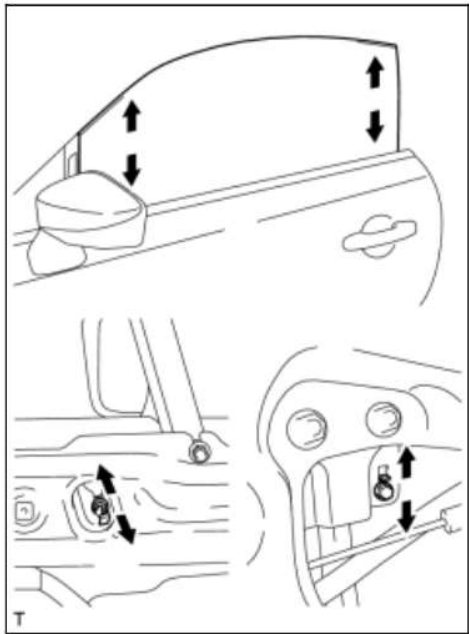
*1	SST
----	-----



--	--

Standard Clearance:

AREA	DIMENSION
*a	5.0 mm (0.1969 in.)
*b	6.7 mm (0.2638 in.)

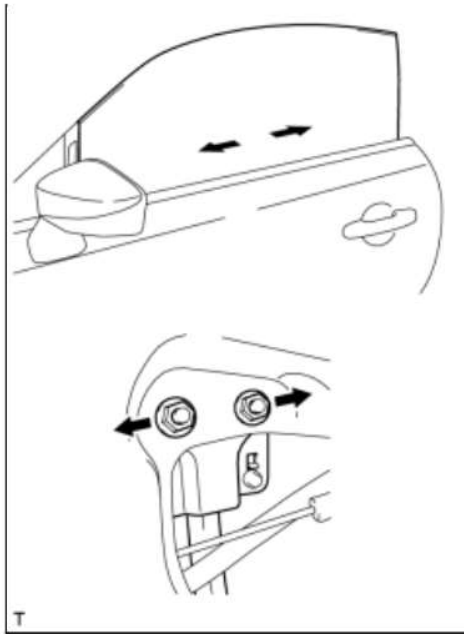


(b) Adjust the front door glass so that the fitting dimensions come within the reference values.

- (c) Loosen the nut on the front door sush stopper and front door rear sush stopper, and adjust the glass position.
- (d) After the adjustment, tighten the nut on the front door sush stopper and front door rear sush stopper.

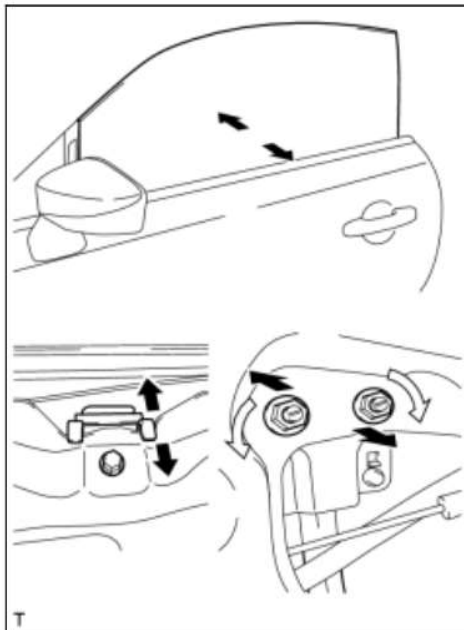
Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)

(e) Loosen the 2 nuts on the front door rear lower frame sub-assembly, and adjust the glass position.



(f) After the adjustment, tighten the 2 nuts on the front door rear lower frame sub-assembly.

Torque: 14 N·m (143 kgf·cm, 10ft·lbf)



(g) Loosen the bolt on the door glass inner stabilizer and adjust the glass position.

(h) After the adjustment, tighten the bolt on the door glass inner stabilizer.

Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)

(i) Loosen the 2 nuts on the front door rear lower frame sub-assembly.

(j) Using a screwdriver, rotate the bolts and then adjust the position of the front door glass in lateral direction.

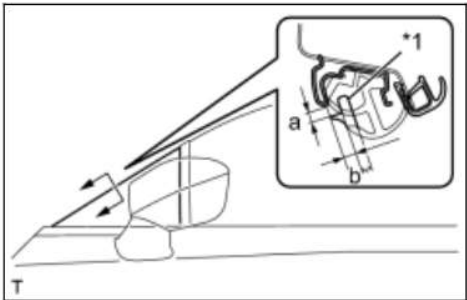
(k) After the adjustment, tighten the 2 nuts on the front door rear lower frame sub-assembly.

Torque: 14 N·m (143 kgf·cm, 10ft·lbf)

(l) Using a SST, check that the clearance measurements of areas "a" to "b" are within each standard range .

SST: 09812-18020

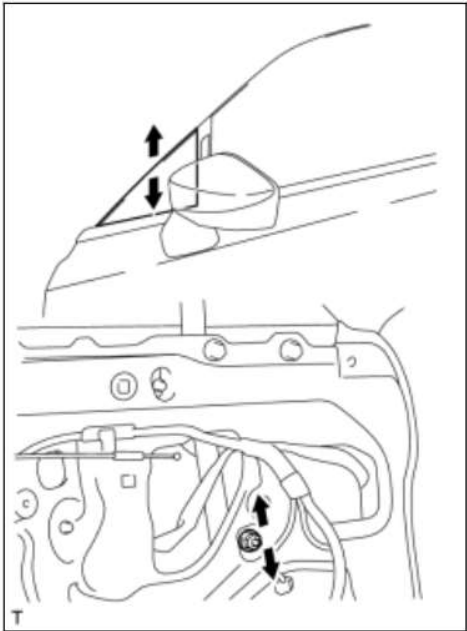
Text in Illustration



*1	SST
----	-----

Standard Clearance:

AREA	DIMENSION
*a	2.5 to 5.5 mm (0.0984 to 0.2165 in.)
*b	5.2 to 8.2 mm (0.2047 to 0.3228 in.)



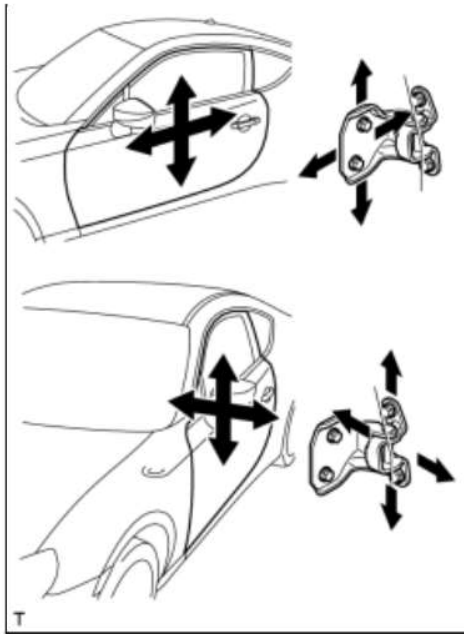
(m) Adjust the front door sush so that the fitting dimensions come within the reference values.

(n) Loosen the nut on the front door sush and adjust the front door sash position.

(o) After the adjustment, tighten the nut on the front door sush.

Torque: 14 N·m (143 kgf·cm, 10ft·lbf)

3. ADJUST FRONT DOOR



(a) Loosen the hinge bolts on the vehicle body and adjust the door position.

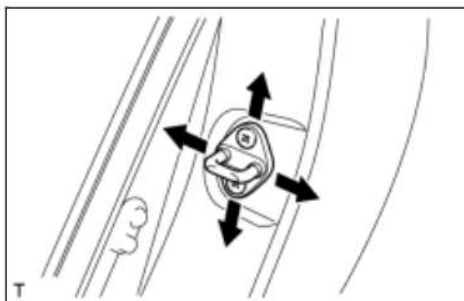
(b) After the adjustment, tighten the hinge bolts on the vehicle body.

Torque: 30 N·m (306 kgf·cm, 22ft·lbf)

(c) Loosen the hinge bolts on the door and adjust the door position.

(d) After the adjustment, tighten the hinge bolts on the door.

Torque: 25 N·m (255 kgf·cm, 18ft·lbf)



(e) Adjust the striker position by slightly loosening the striker mounting screws and hitting the striker with a plastic-faced hammer.

(f) After the adjustment, tighten the striker mounting screws.

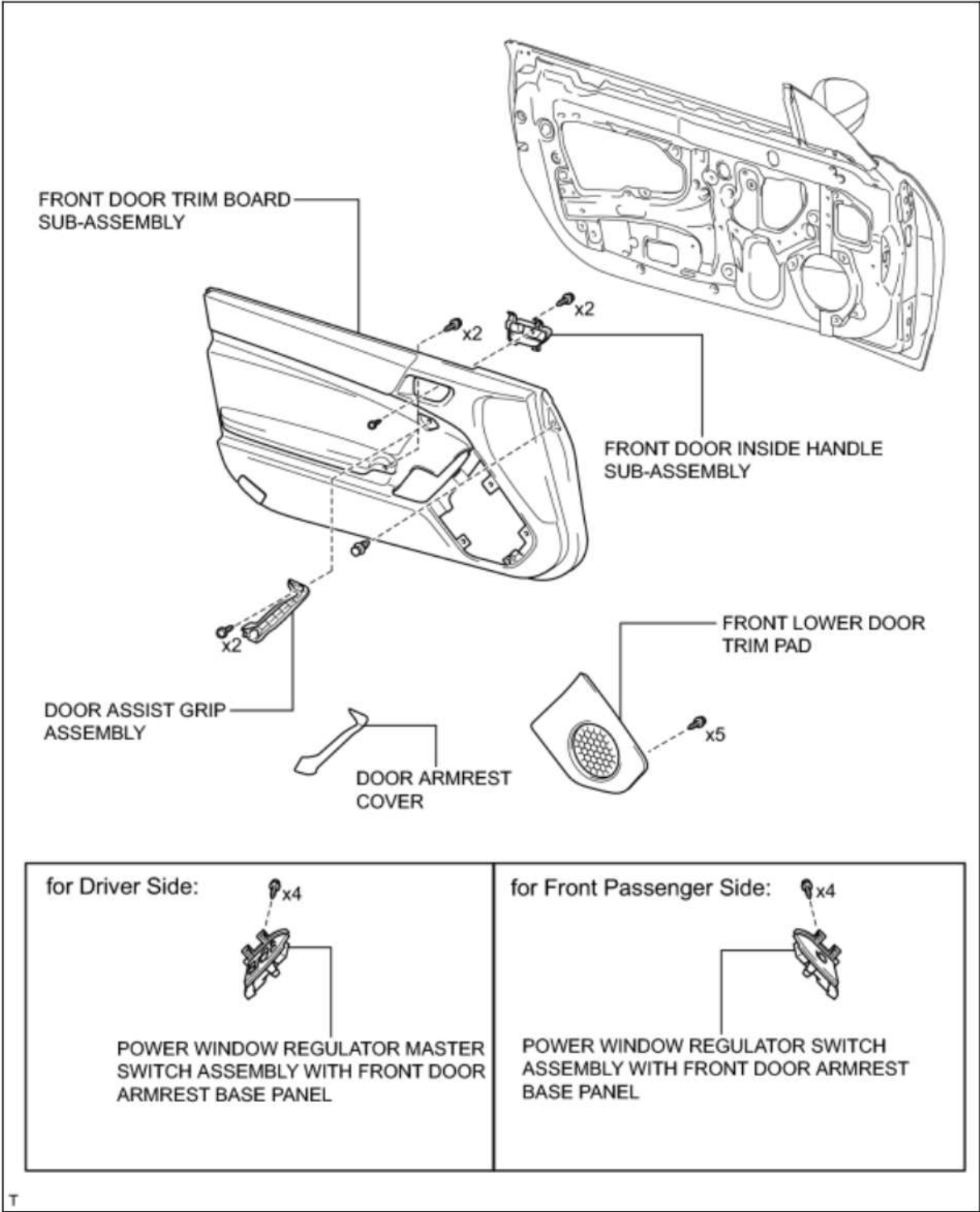
Torque: 18 N·m (184 kgf·cm, 13ft·lbf)



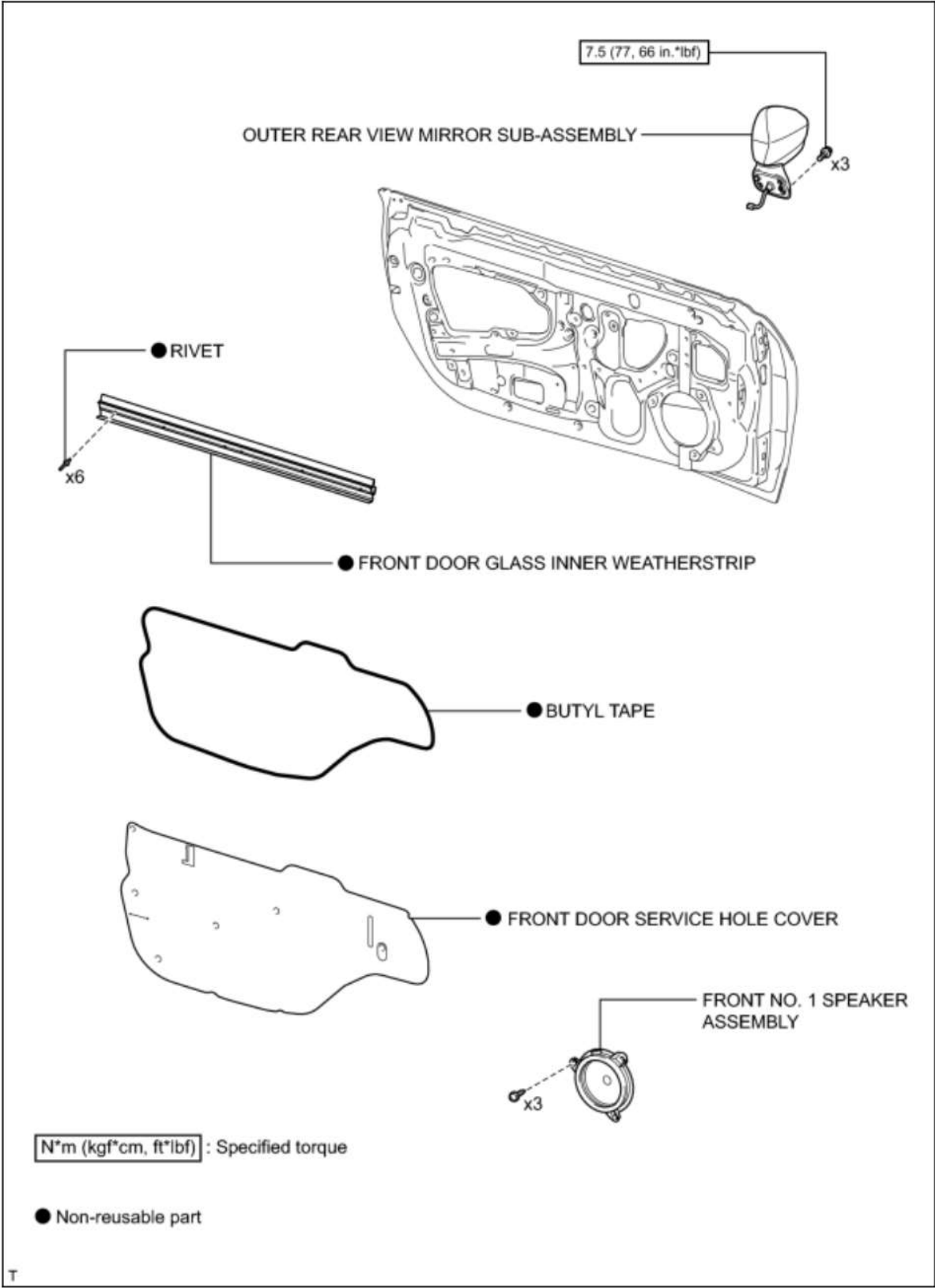
Last Modified: 3-27-2012	6.4 K	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000XBA06EX
Title: DOOR / HATCH: FRONT DOOR: COMPONENTS (2013 FR-S)		

COMPONENTS

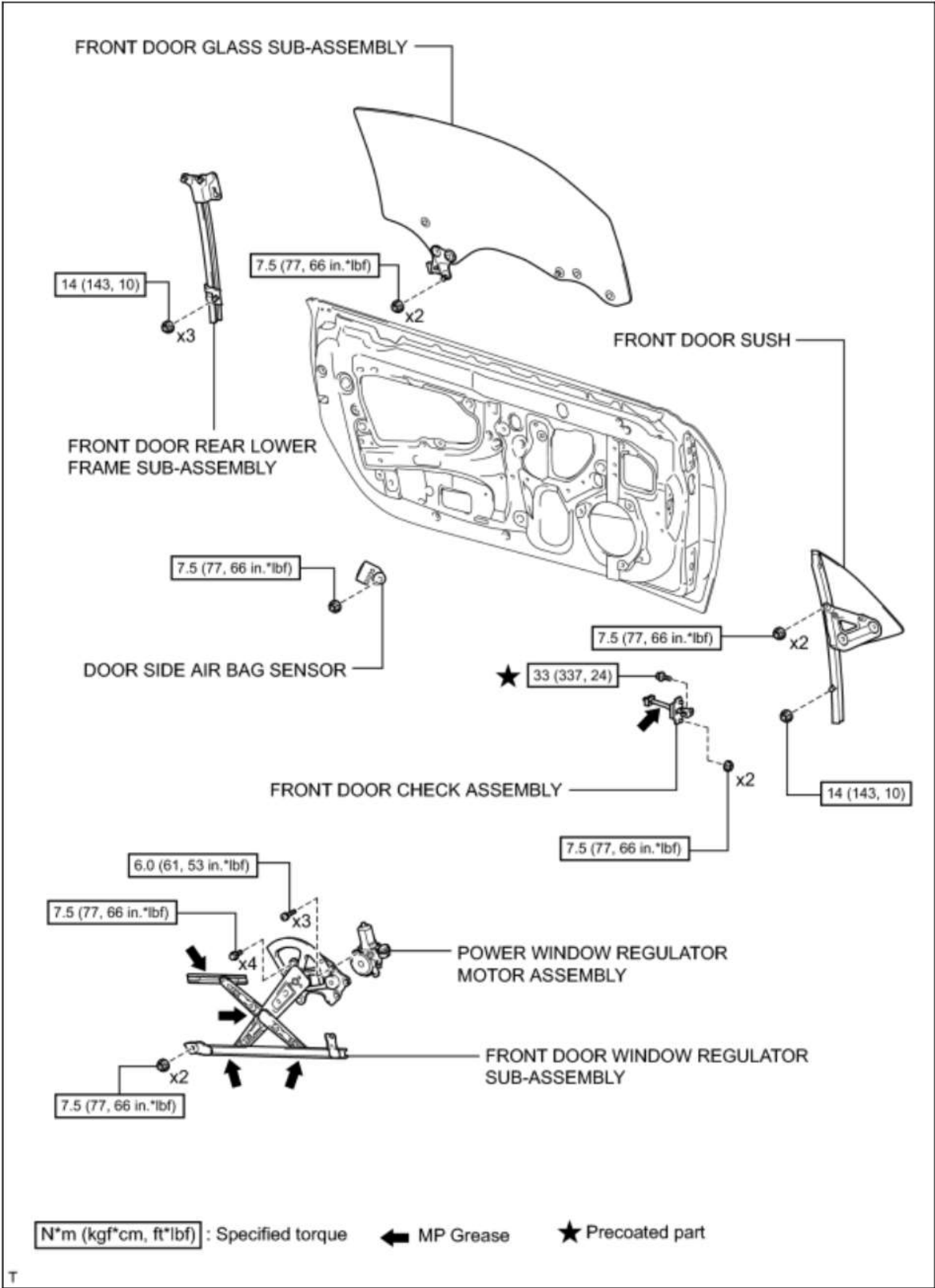
ILLUSTRATION



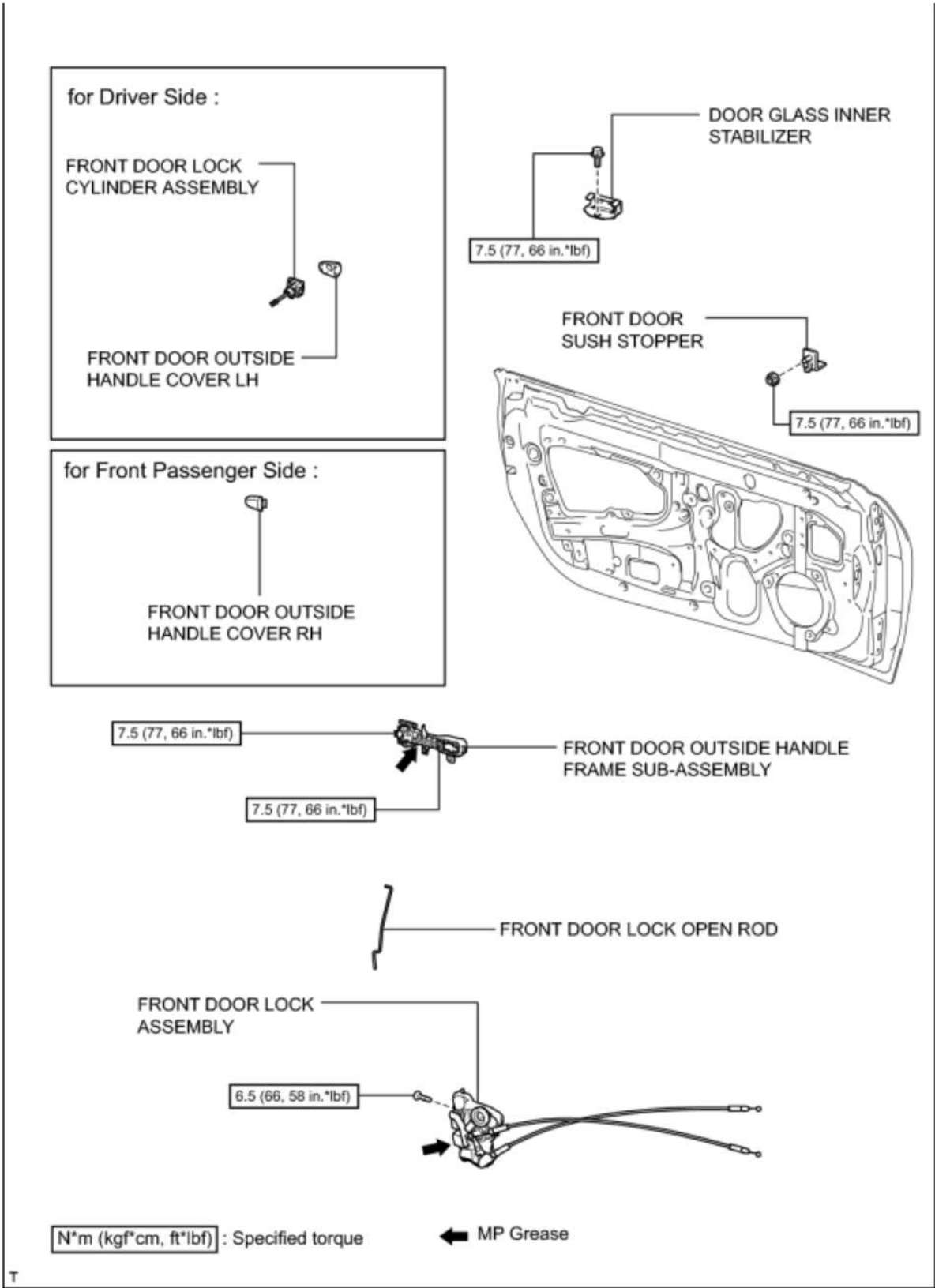
ILLUSTRATION



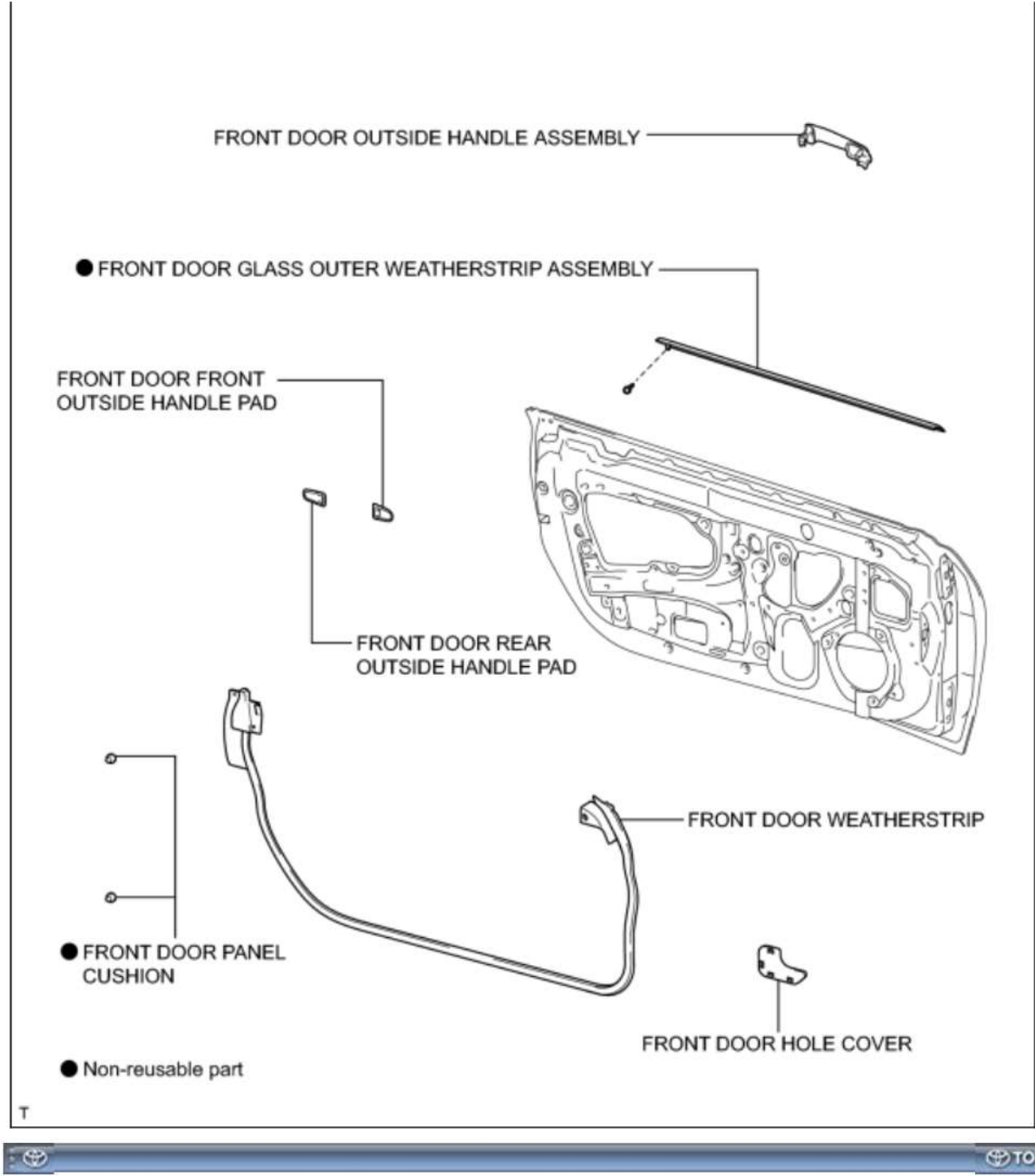
ILLUSTRATION



ILLUSTRATION



ILLUSTRATION



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM0000011QF0ANX
Title: DOOR / HATCH: FRONT DOOR: DISASSEMBLY (2013 FR-S)		

DISASSEMBLY

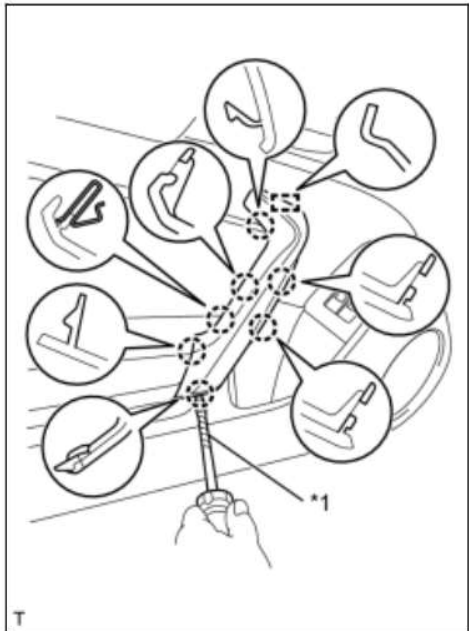
HINT:

- Use the same procedure for both the RH and LH sides.
- The following procedure is for the LH side.

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

INFO

2. REMOVE DOOR ARMREST COVER



(a) Using a screwdriver with its tip wrapped in protective tape, disengage the 7 claws.

(b) Disengage the guides and remove the door armrest cover.

Text in Illustration

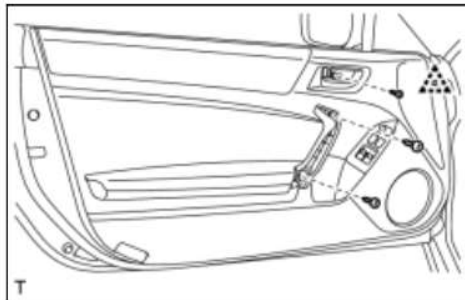
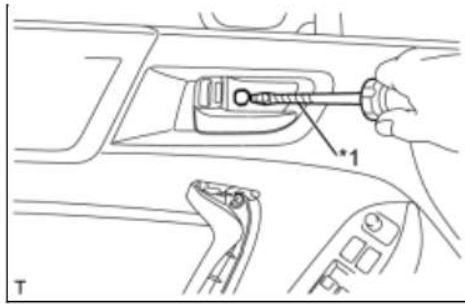
*1	Protective Tape
----	-----------------

3. REMOVE FRONT DOOR TRIM BOARD SUB-ASSEMBLY

(a) Using a screwdriver with its tip wrapped in protective tape, open the cap.

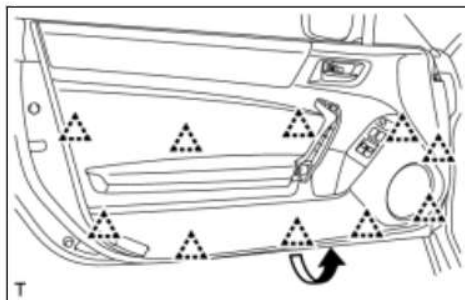
Text in Illustration

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



(b) Using a clip remover, disengage the clip.

(c) Remove the 3 screws.

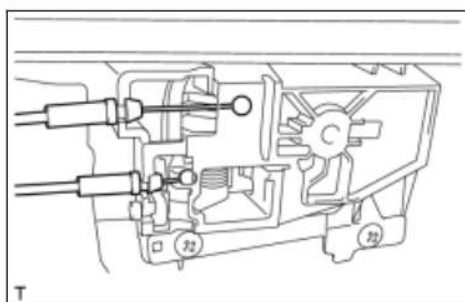


(d) Using a moulding remover, disengage the 10 clips.

(e) Pull out the front door trim board sub-assembly in the direction indicated by the arrow in the illustration.

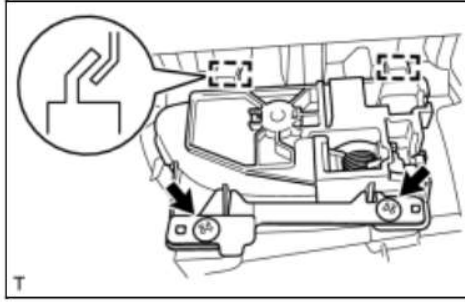
(f) Disconnect each connector.

(g) Raise the front door trim board sub-assembly and remove the front door trim board sub-assembly together with the front door glass weatherstrip inner.



(h) Disconnect the front door lock remote control cable and the front door inside locking cable.

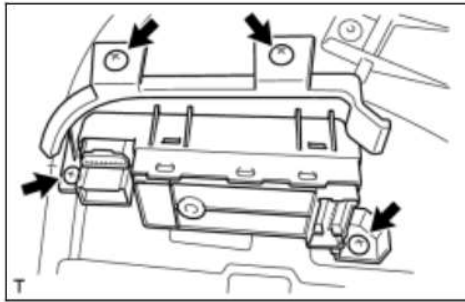
4. REMOVE FRONT DOOR INSIDE HANDLE SUB-ASSEMBLY



(a) Remove the 2 screws.

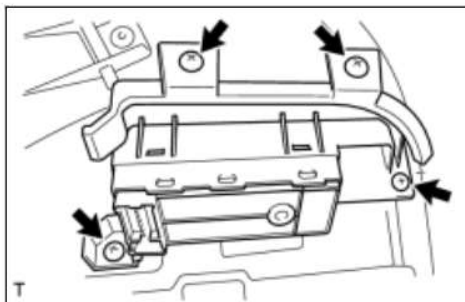
(b) Disengage the 2 guides and remove the front door inside handle sub-assembly.

5. REMOVE POWER WINDOW REGULATOR MASTER SWITCH ASSEMBLY WITH FRONT DOOR ARMREST BASE PANEL (for Driver Side)



(a) Remove the 4 screws and power window regulator master switch assembly with front door armrest base panel.

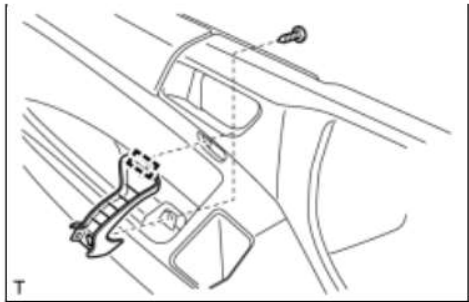
6. REMOVE POWER WINDOW REGULATOR SWITCH ASSEMBLY WITH FRONT DOOR ARMREST BASE PANEL (for Front Passenger Side)



(a) Remove the 4 screws and power window regulator switch assembly with front door armrest base panel.

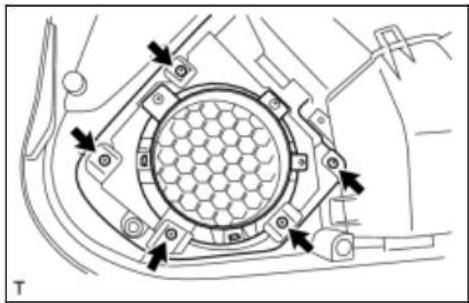
7. REMOVE DOOR ASSIST GRIP ASSEMBLY

(a) Remove the 2 screws.



(b) Disengage the guide and remove the door assist grip assembly.

8. REMOVE FRONT LOWER DOOR TRIM PAD



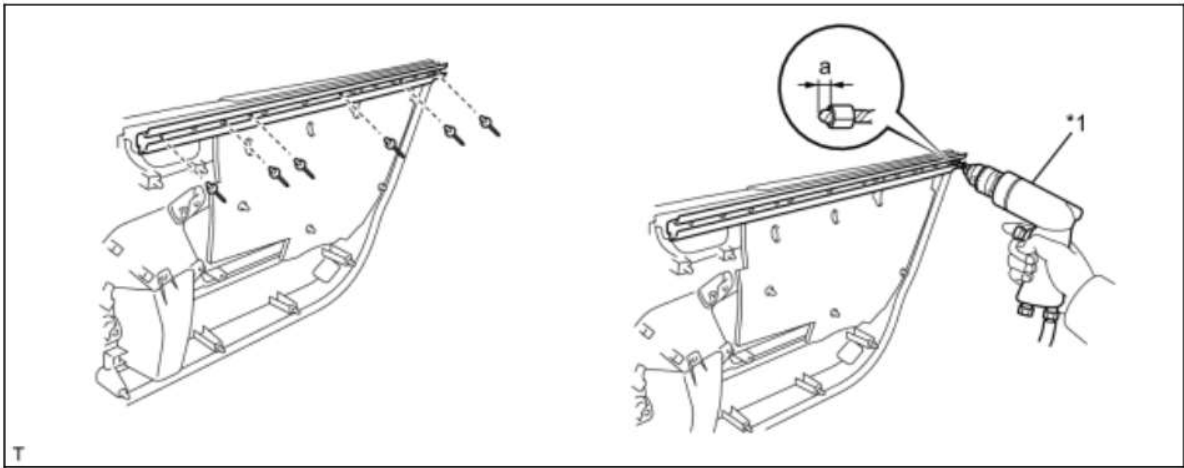
(a) Remove the front lower door trim pad with the 5 screws.

9. REMOVE FRONT DOOR GLASS INNER WEATHERSTRIP

- (a) Put a 4 mm (0.1575 in.) drill bit into a drill.
- (b) Wind tape around the drill bit approximately 5 mm (0.1969 in.) from the tip of the drill, as shown in the illustration.

HINT:

Tape the 4 mm (0.1575 in.) drill bit to prevent the drill bit from going too deep.



Text in Illustration

*1	Drill	-	-
a	5.0 mm (0.1969 in.)	-	-

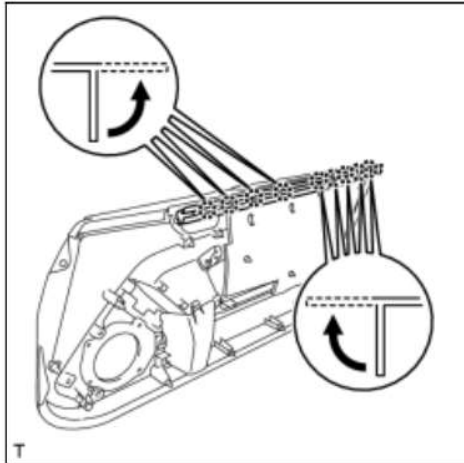
(c) Lightly press the drill against the 6 rivets and drill off the flanges of the 6 rivets.

CAUTION:

Be careful of the drilled rivet as it may become hot.

NOTICE:

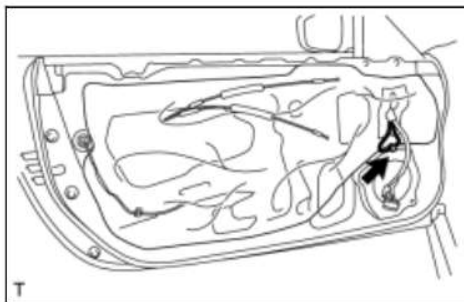
- Pressing the drill too firmly will cause the rivet to turn and result in the rivet not being drilled through.
- Do not pry the rivet with the drill because this may cause damage to the installation holes of the rivet or the drill bit.



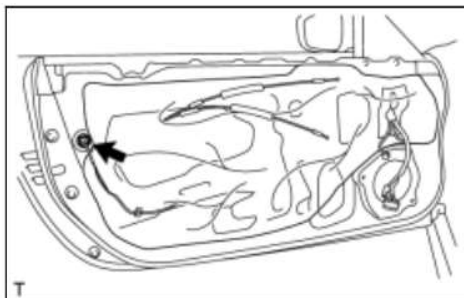
(d) Disengage the 9 claws and remove the front door glass inner weatherstrip from the front door trim board sub-assembly as shown in the illustration.

10. REMOVE FRONT NO. 1 SPEAKER ASSEMBLY INFO

11. REMOVE FRONT DOOR SERVICE HOLE COVER



(a) Disconnect the outer rear view mirror sub-assembly connector.



(b) Disconnect the front door lock assembly connector.

- (c) Remove the front door service hole cover.

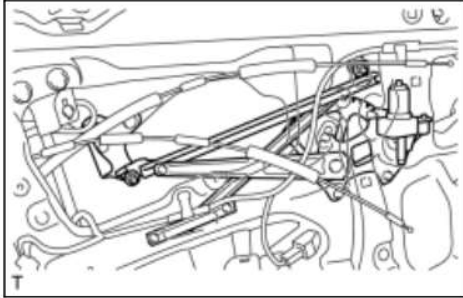
HINT:

Remove any remaining butyl tape from the door.

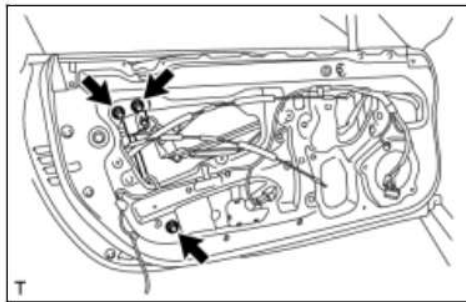
12. REMOVE OUTER REAR VIEW MIRROR SUB-ASSEMBLY

INFO

13. REMOVE FRONT DOOR GLASS SUB-ASSEMBLY

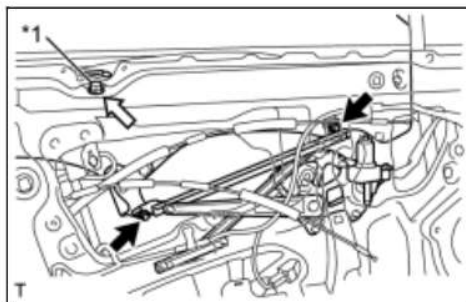


- (a) Provisionally install the power window regulator master switch (for driver side).
 (b) Provisionally install the power window regulator switch (for passenger side).
 (c) Connect the cable to the negative (-) battery terminal.
 (d) Move the front door glass sub-assembly until the 2 nuts can be seen through the service holes.
 (e) Disconnect the power window regulator master switch connector. (for driver side).
 (f) Disconnect the power window regulator switch connector. (for passenger side).
 (g) Disconnect the cable from the negative (-) battery terminal.



- (h) Remove the 3 nuts.

- (i) Shift the front door rear lower frame sub-assembly to the lower side of the door frame.



- (j) Remove the 2 nuts.

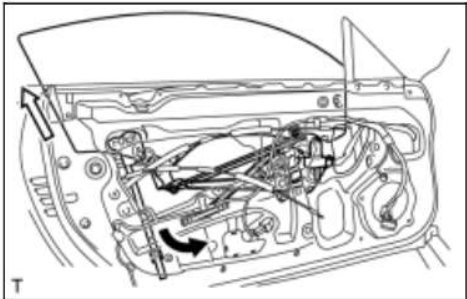
(k) Loosen the door glass inner stabilizer bolt.

NOTICE:

After the 2 nuts are removed, do not allow the door glass to fall.

Text in Illustration

*1	Door Glass Inner Stabilizer Bolt
----	----------------------------------

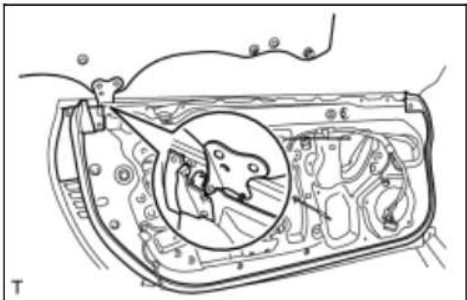


(l) While holding the front door glass sub-assembly up, slide the front door rear lower frame sub-assembly downward, and pull the front door glass sub-assembly out from the front door rear lower frame sub-assembly.

NOTICE:

- Do not allow the door glass to fall.
- Do not damage the door glass.

(m) Partially remove the rear end of the front door weatherstrip until the front door glass sub-assembly can be removed.



(n) Remove the front door glass sub-assembly from the position indicated in the illustration.

NOTICE:

Do not damage the front door weatherstrip.

HINT:

The front glass sub-assembly can only be removed from the position indicated in the illustration.

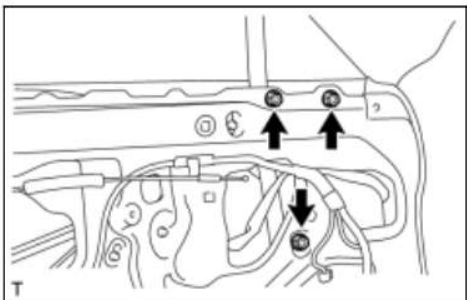
14. REMOVE FRONT DOOR REAR LOWER FRAME SUB-ASSEMBLY

(a) Remove the front door rear lower frame sub-assembly from the front door frame.

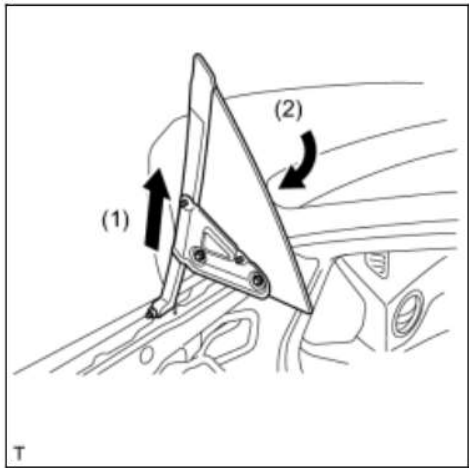
15. REMOVE DOOR GLASS INNER STABILIZER

(a) Remove the bolt and the door glass inner stabilizer.

16. REMOVE FRONT DOOR SUSH



(a) Remove the 3 nuts.



(b) Rotate the front door sush as indicated by the arrows in the order shown in the illustration, and remove the front door sush.

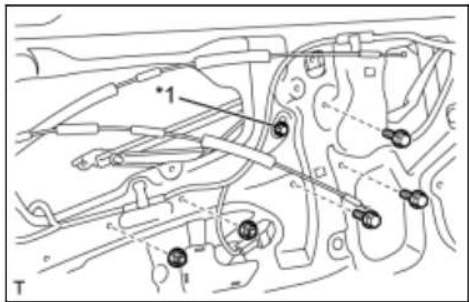
NOTICE:

- Since the front door sush attachment bolts interfere, be sure to follow the procedure shown in the illustration.
- Do not allow the front door sush to fall.
- Do not damage the front door sush.

17. REMOVE FRONT DOOR SUSH STOPPER

(a) Remove the nut and front door sush stopper.

18. REMOVE FRONT DOOR WINDOW REGULATOR SUB-ASSEMBLY



(a) Disconnect the connector.

(b) Loosen the temporary bolt.

Text in Illustration

*1	Temporary Bolt
----	----------------

NOTICE:

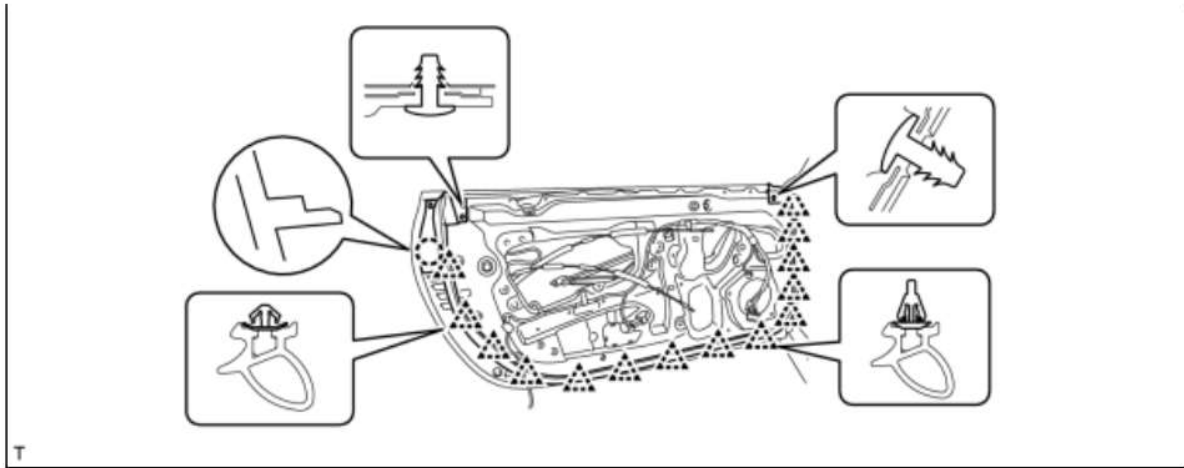
Do not remove the temporary bolt. If the temporary bolt is removed, the front door window regulator sub-assembly may fall and cause damage.

- (c) Remove the 3 bolts and 2 nuts.
- (d) Remove the temporary bolt and the front door window regulator sub-assembly with power window regulator motor assembly.

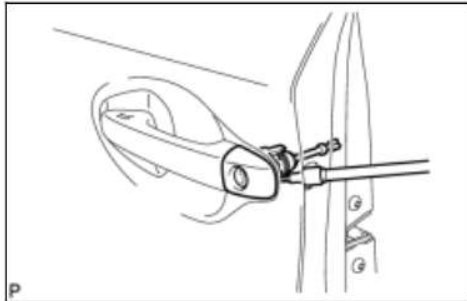
19. REMOVE POWER WINDOW REGULATOR MOTOR ASSEMBLY INFO

20. REMOVE FRONT DOOR WEATHERSTRIP

- (a) Disengage the 2 claws and remove the screw.
- (b) Using a clip remover, disengage the 16 clips and remove the front door weatherstrip.



21. REMOVE FRONT DOOR LOCK CYLINDER ASSEMBLY (for Driver Side)

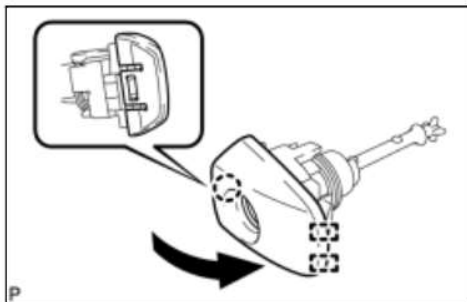


- (a) Using a T30 "TORX" socket wrench, loosen the screw and remove the front door lock cylinder assembly with front door outside handle cover LH.

HINT:

The screw cannot be removed because it is integrated into the front door outside handle frame sub-assembly.

22. REMOVE FRONT DOOR OUTSIDE HANDLE COVER LH (for Driver Side)



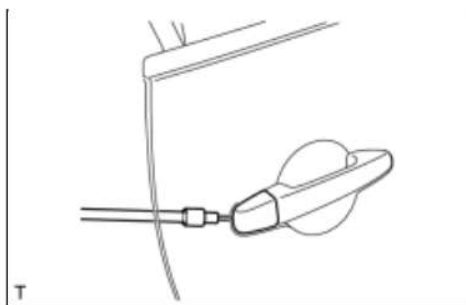
- (a) Using a screwdriver, disengage the claw and 2 guides and remove the front door outside handle cover LH as shown in the illustration.

23. REMOVE FRONT DOOR OUTSIDE HANDLE COVER RH (for Front Passenger Side)

- (a) Using a T30 "TORX" socket wrench, loosen the screw and remove the front door outside handle cover RH.

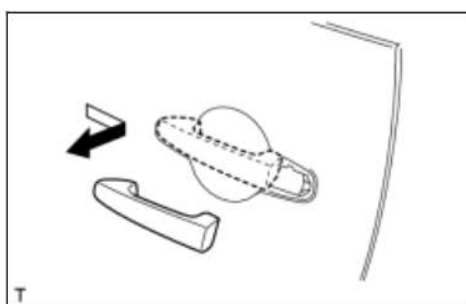
HINT:

The screw cannot be removed because it is integrated into the front door outside handle frame sub-assembly.



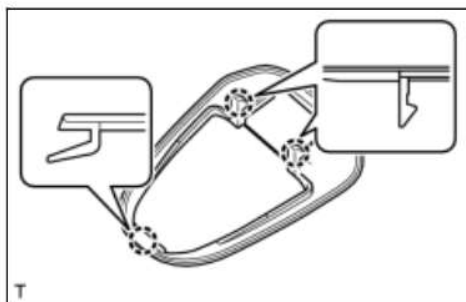
24. REMOVE FRONT DOOR LOCK ASSEMBLY INFO

25. REMOVE FRONT DOOR OUTSIDE HANDLE ASSEMBLY



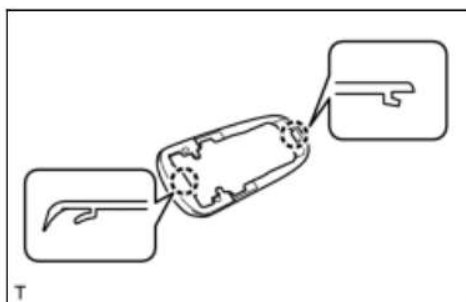
(a) Remove the front door outside handle assembly as shown in the illustration.

26. REMOVE FRONT DOOR FRONT OUTSIDE HANDLE PAD



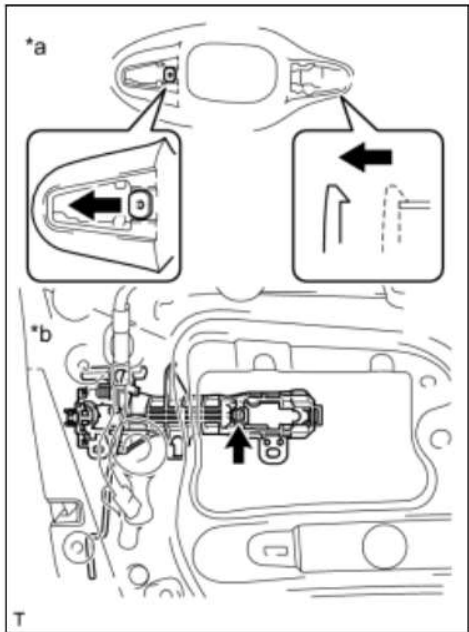
(a) Disengage the 3 claws and remove the front door front outside handle pad.

27. REMOVE FRONT DOOR REAR OUTSIDE HANDLE PAD



(a) Disengage the 2 claws and remove the front door rear outside handle pad.

28. REMOVE FRONT DOOR OUTSIDE HANDLE FRAME SUB-ASSEMBLY



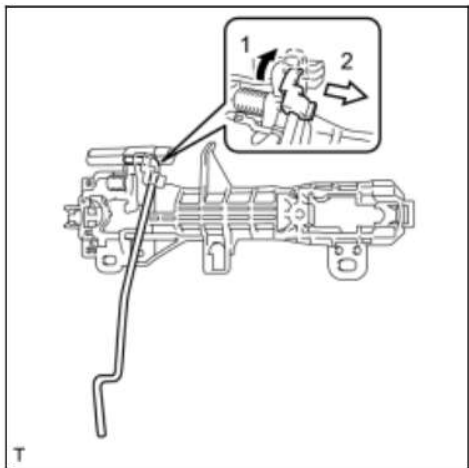
(a) Using a T30 "TORX" socket wrench, loosen the screw.

(b) Slide the front door outside handle frame sub-assembly to disengage the claw of the front door outside handle frame sub-assembly, and then remove it.

Text in Illustration

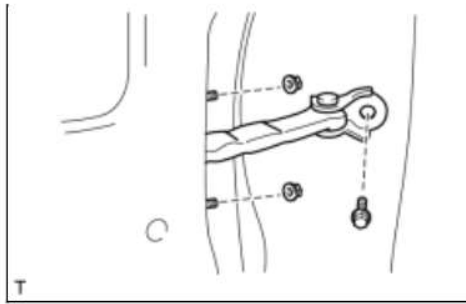
*a	Outside Vehicle
*b	Inside Vehicle

29. REMOVE FRONT DOOR LOCK OPEN ROD



(a) Remove the front door lock open rod as indicated by the arrows, in the order shown in the illustration.

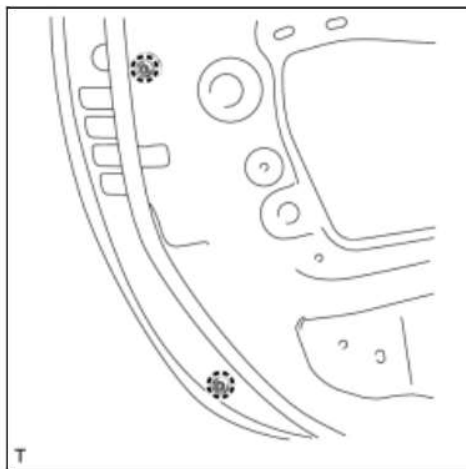
30. REMOVE FRONT DOOR CHECK ASSEMBLY



(a) Remove the bolt.

(b) Remove the 2 nuts and front door check assembly.

31. REMOVE FRONT DOOR PANEL CUSHION

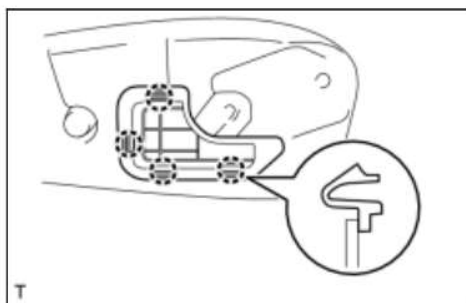


(a) Disengage the 2 claws and remove the 2 front door panel cushions.

32. REMOVE FRONT DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY INFO

33. REMOVE DOOR SIDE AIR BAG SENSOR INFO

34. REMOVE FRONT DOOR HOLE COVER



(a) Disengage the 4 claws and remove the front door hole cover.

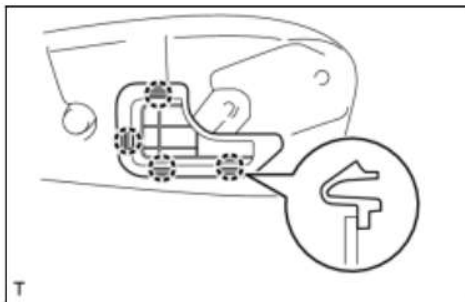
Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM0000011QG0ATX
Title: DOOR / HATCH: FRONT DOOR: REASSEMBLY (2013 FR-S)		

REASSEMBLY

HINT:

- Use the same procedure for both the RH and LH sides.
- The following procedure is for the LH side.

1. INSTALL FRONT DOOR HOLE COVER

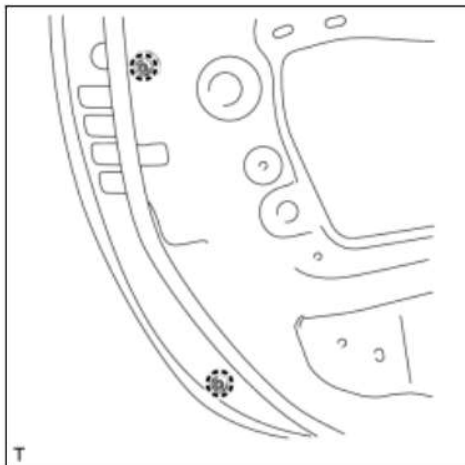


(a) Insert the front door hole cover with the 4 claws.

2. INSTALL DOOR SIDE AIR BAG SENSOR INFO

3. INSTALL FRONT DOOR GLASS OUTER WEATHERSTRIP ASSEMBLY INFO

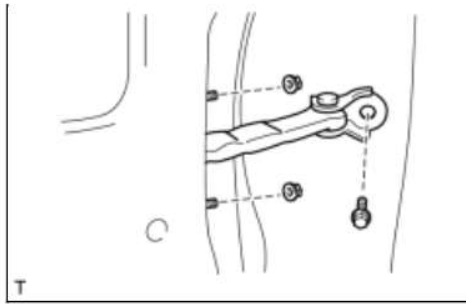
4. INSTALL FRONT DOOR PANEL CUSHION



(a) Engage the 2 claws and install 2 new front door panel cushions.

5. INSTALL FRONT DOOR CHECK ASSEMBLY

(a) Apply MP grease to the sliding areas of the front door check assembly.



(b) Apply adhesive to the threads of the bolt.

Adhesive:

Toyota Genuine Adhesive 1324, Three Bond 1324 or equivalent

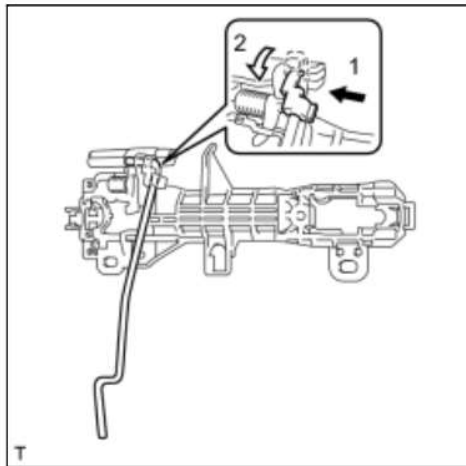
(c) Install the bolt.

Torque: 33 N·m (337 kgf·cm, 24ft·lbf)

(d) Install the front door check assembly with the 2 nuts.

Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)

6. INSTALL FRONT DOOR LOCK OPEN ROD

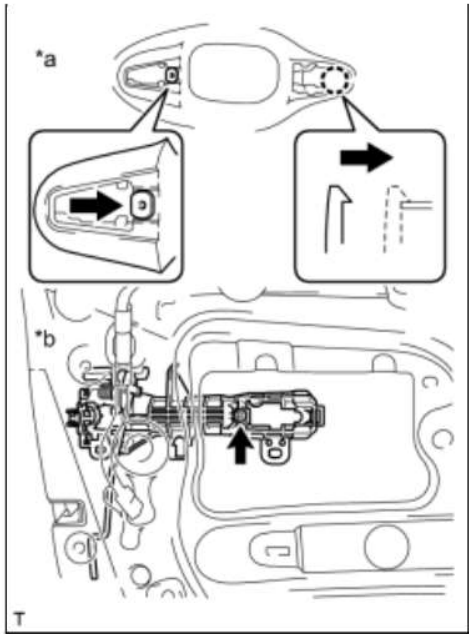


(a) Install the front door lock open rod as indicated by the arrows, in the order shown in the illustration.

7. INSTALL FRONT DOOR OUTSIDE HANDLE FRAME SUB-ASSEMBLY

(a) Apply MP grease to the sliding parts on the front door outside handle frame sub-assembly.

(b) Engage the claw.



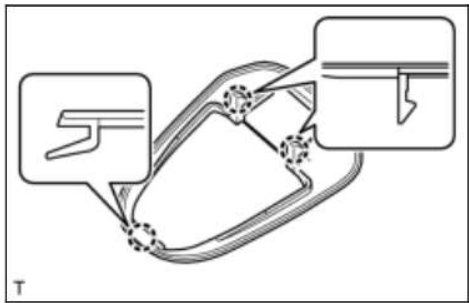
(c) Using a T30 "TORX" socket wrench, install the front door outside handle frame sub-assembly with the screw.

Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)

Text in Illustration

*a	Outside Vehicle
*b	Inside Vehicle

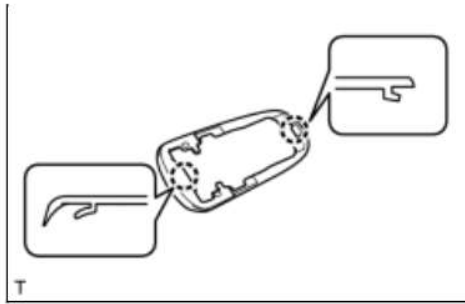
8. INSTALL FRONT DOOR FRONT OUTSIDE HANDLE PAD



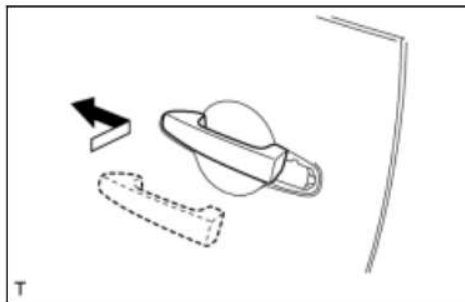
(a) Engage the 3 claws and install the front door front outside handle pad.

9. INSTALL FRONT DOOR REAR OUTSIDE HANDLE PAD

(a) Engage the 2 claws and install the front door rear outside handle pad.



10. INSTALL FRONT DOOR OUTSIDE HANDLE ASSEMBLY

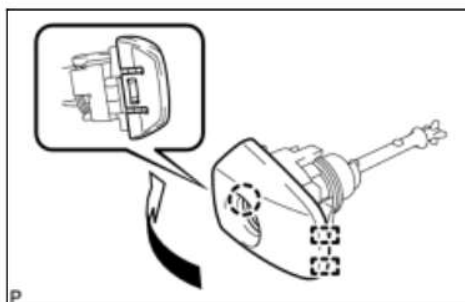


- (a) Insert the front end of the front door outside handle assembly into the front door outside handle frame sub-assembly.

- (b) Insert the rear end of the front door outside handle assembly into the front door outside handle frame sub-assembly, and then slide the front door outside handle assembly toward the front of the vehicle to install it.

11. INSTALL FRONT DOOR LOCK ASSEMBLY INFO

12. INSTALL FRONT DOOR OUTSIDE HANDLE COVER LH (for Driver Side)

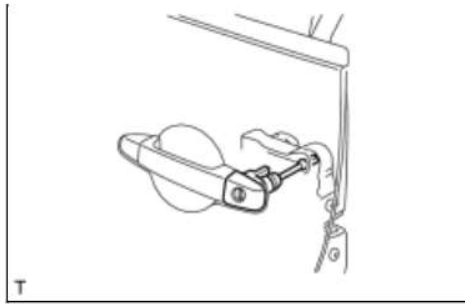


- (a) Engage the claw and 2 guides, and install the front door outside handle cover LH to the front door lock cylinder assembly.

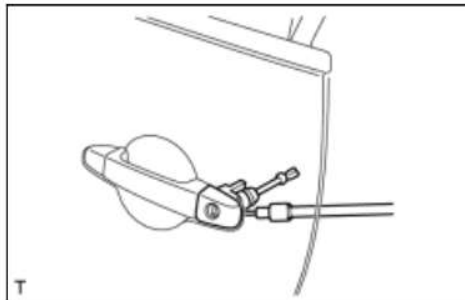
13. INSTALL FRONT DOOR LOCK CYLINDER ASSEMBLY (for Driver Side)

- (a) Install the front door outside handle cover with front door lock cylinder assembly.

HINT:



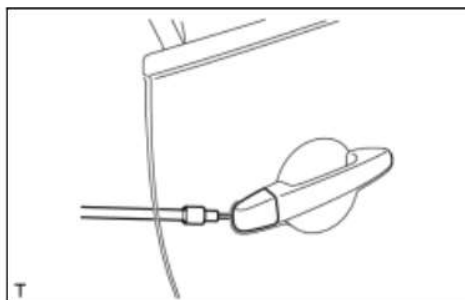
Make sure that the front door lock cylinder rod is inserted into the front door lock assembly.



- (b) Using a T30 "TORX" socket wrench, install the front door lock cylinder assembly with the screw.

Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)

14. INSTALL FRONT DOOR OUTSIDE HANDLE COVER RH (for Front Passenger Side)

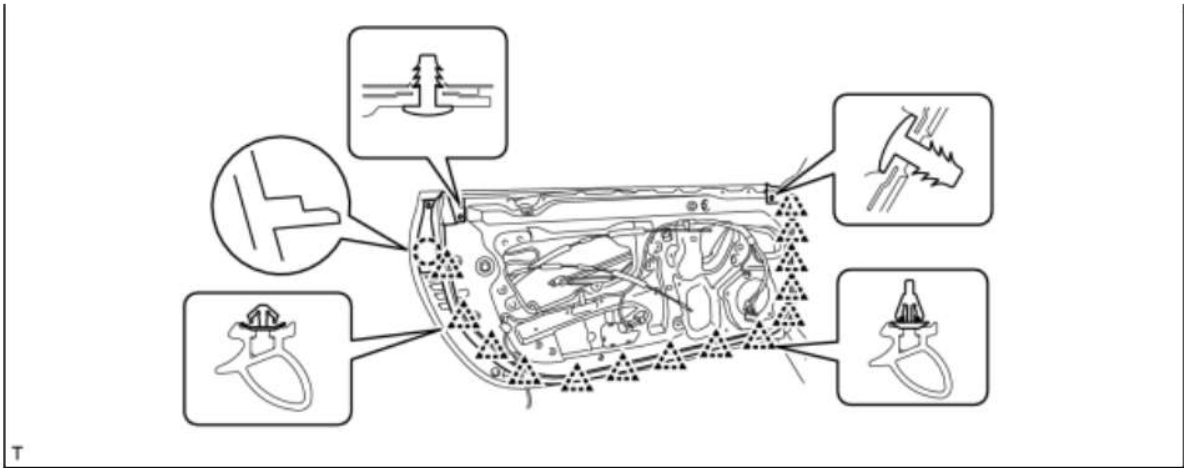


- (a) Using a T30 "TORX" socket wrench, install the front door outside handle cover with the screw.

Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)

15. INSTALL FRONT DOOR WEATHERSTRIP

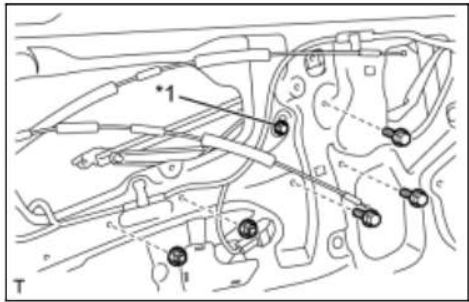
- (a) Engage the 16 clips.
- (b) Engage the claw.
- (c) Install the front door weatherstrip with the screw.



16. INSTALL POWER WINDOW REGULATOR MOTOR ASSEMBLY INFO

17. INSTALL FRONT DOOR WINDOW REGULATOR SUB-ASSEMBLY

- (a) Apply MP grease to the sliding parts of the front door window regulator sub-assembly.
- (b) Install the temporary bolt to the front door window regulator sub-assembly.



- (c) Temporarily install the front door window regulator sub-assembly.

- (d) Tighten the 3 bolts and 2 nuts.
Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)
- (e) Tighten the temporary bolt.
Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)
- (f) Connect the connector.

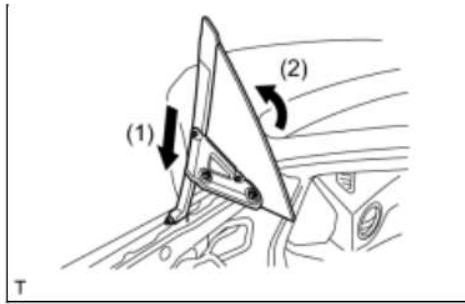
Text in Illustration

*1	Temporary Bolt
----	----------------

18. INSTALL FRONT DOOR SUSH STOPPER

- (a) Install the front door sush stopper with the bolt.
Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)

19. INSTALL FRONT DOOR SUSH

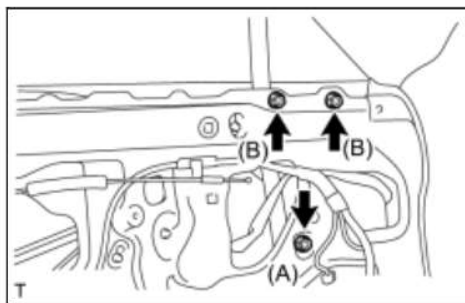


- (a) Insert the front door sush so that it is perpendicular to the front door frame, in the order shown in the illustration.

- (b) Rotate the front door sush 90°.

NOTICE:

Do not damage the front door sush.



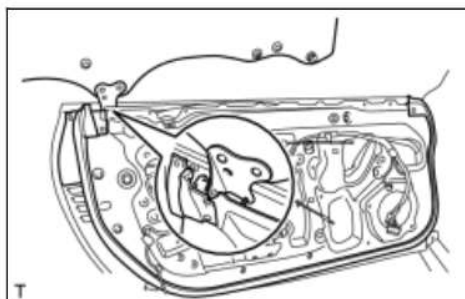
- (c) Install the front door sush with the 3 nuts.

Nut(A) - Torque: 14 N·m (143 kgf·cm, 10ft·lbf)

Nut(B) - Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)

20. INSTALL FRONT DOOR GLASS SUB-ASSEMBLY

- (a) Connect the cable to the negative (-) battery terminal.
- (b) Connect the power window regulator master switch assembly connector. (for driver side)
- (c) Connect the power window regulator switch assembly connector. (for front passenger side)
- (d) Move the front door glass sub-assembly until the 2 nuts can be seen through the service holes.
- (e) Disconnect the cable from the negative (-) battery terminal.
- (f) Disconnect the power window regulator master switch assembly connector. (for driver side)
- (g) Disconnect the power window regulator switch assembly connector. (for front passenger side)



- (h) Insert the front door glass sub-assembly into the front door frame from the position indicated in the illustration.

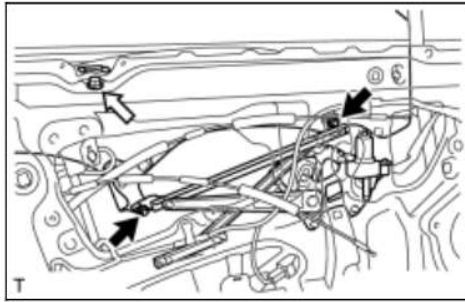
NOTICE:

Do not damage the front door weatherstrip.

HINT:

The front door glass sub-assembly can only be installed from the position indicated in the illustration, so install it while sliding the front door rear lower frame sub-assembly.

- (i) Insert the grommet of front door glass assembly into the rail of the front door rear lower frame sub-assembly.



(j) Install the front door glass sub-assembly with the 2 nuts.

Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)

21. INSTALL DOOR GLASS INNER STABILIZER

(a) Install the door glass inner stabilizer with the bolt.

Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)

22. INSTALL FRONT DOOR REAR LOWER FRAME SUB-ASSEMBLY

(a) Install the front door rear lower frame sub-assembly with the 3 nuts.

Torque: 14 N·m (143 kgf·cm, 10ft·lbf)

23. INSTALL OUTER REAR VIEW MIRROR SUB-ASSEMBLY

INFO

24. ADJUST FRONT DOOR GLASS SUB-ASSEMBLY

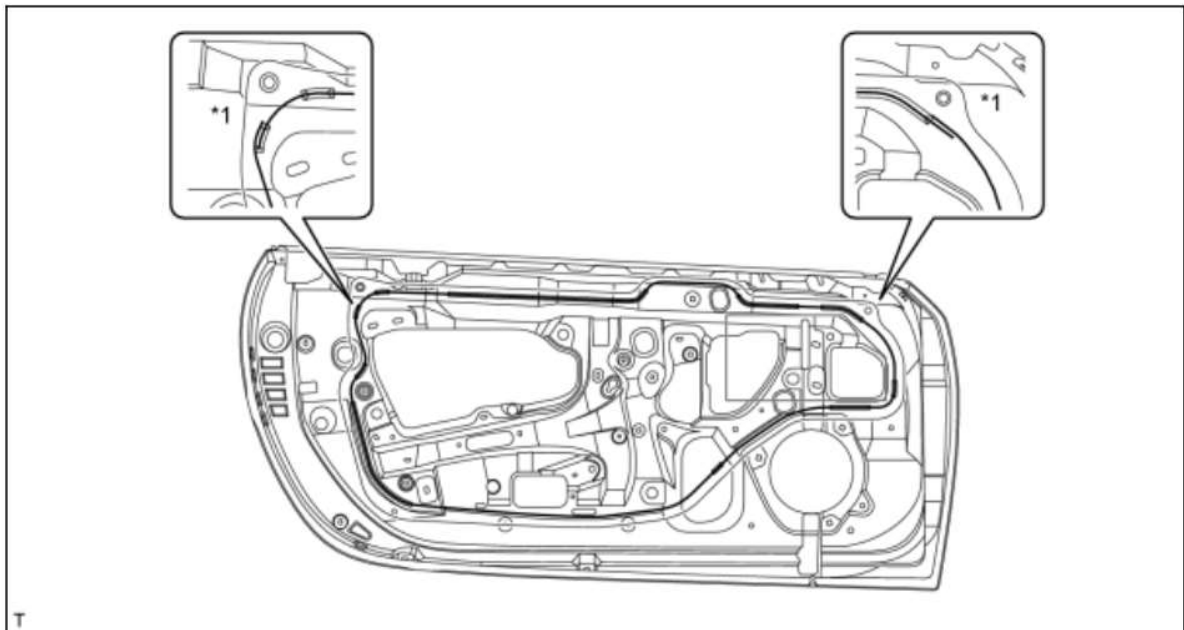
(a) Check the front door glass sub-assembly. INFO

(b) Adjust the front door glass sub-assembly. INFO

25. INSTALL FRONT DOOR SERVICE HOLE COVER

(a) Apply butyl tape to the front door panel.

(b) Pass the front door lock remote control cable assembly and the front door inside locking cable assembly through a new front door service hole cover.



Text in Illustration

*1	Reference Point	-	-
----	-----------------	---	---

(c) Attach the front door service hole cover according to the reference points on the front door panel.

NOTICE:

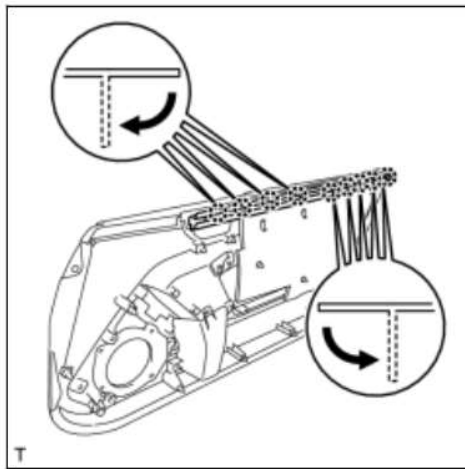
- Overlay the butyl tape in lengths of 20 cm (7.874 in.) or more.
- Do not block the drip holes in the front door panel with butyl tape.
- Securely install the front door service hole cover preventing wrinkles and air bubbles.

(d) Connect each connector.

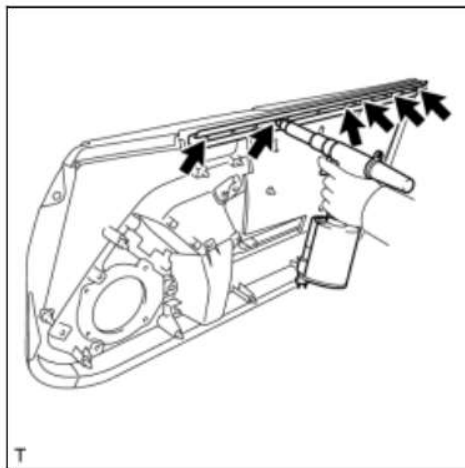
26. INSTALL FRONT NO. 1 SPEAKER ASSEMBLY (w/ Front Speaker)

INFO

27. INSTALL FRONT DOOR GLASS INNER WEATHERSTRIP



(a) Engage the 9 claws and install the front door glass inner weatherstrip to the front door trim board sub-assembly as shown in the illustration.



(b) Install a nose piece to an air riveter or hand riveter.

(c) Insert the mandrel part of a new rivet into the nose piece.

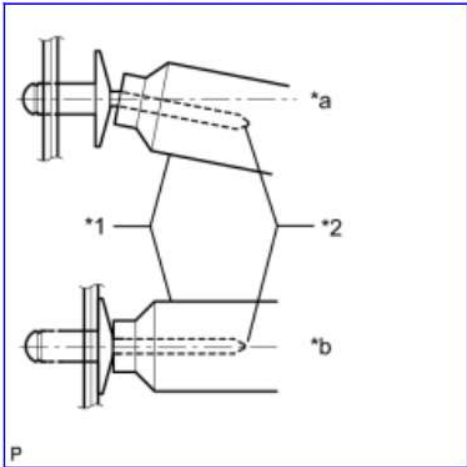
(d) Place the riveter upright against the moulding and install the 9 rivets.

HINT:

If the rivet cannot be cut, pull it once and cut it.

NOTICE:

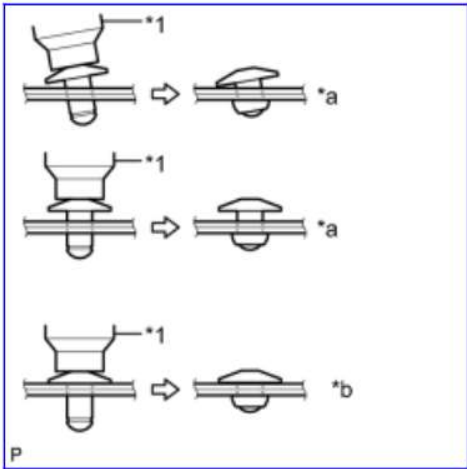
- Do not pry the rivet with the riveter as this will cause damage to the riveter and mandrel.



Text in Illustration

*1	Riveter
*2	Mandrel
*a	Incorrect
*b	Correct

- Confirm that the rivets are seated properly against the front door glass inner weatherstrip.

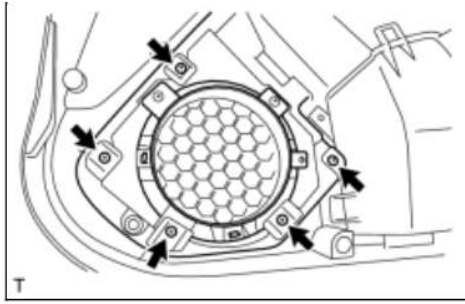


Text in Illustration

*1	Riveter
*a	Incorrect
*b	Correct

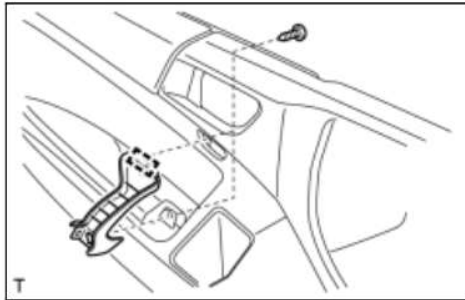
- Do not tilt the riveter when installing the rivet to the front door glass inner weatherstrip
- Do not leave any space between the rivet head and front door glass inner weatherstrip.

28. INSTALL FRONT LOWER DOOR TRIM PAD



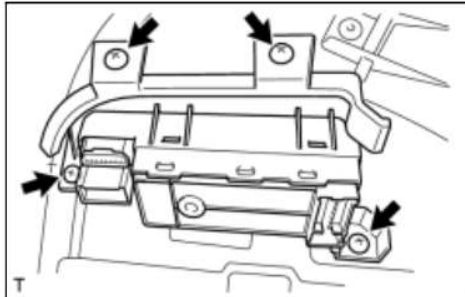
(a) Install the front lower door trim pad with the 5 screws.

29. INSTALL DOOR ASSIST GRIP ASSEMBLY



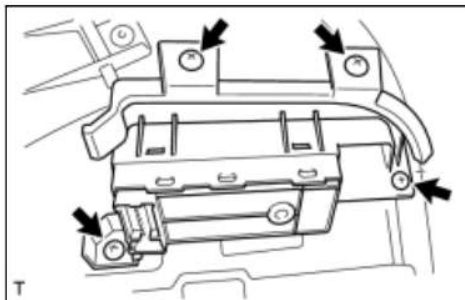
(a) Engage the guide and install the door assist grip assembly with the 2 screws.

30. INSTALL POWER WINDOW REGULATOR MASTER SWITCH ASSEMBLY WITH FRONT DOOR ARMREST BASE PANEL (for Driver Side)



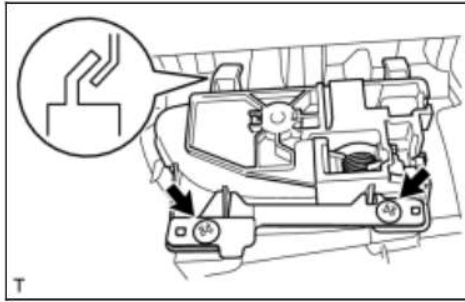
(a) Install the power window regulator master switch assembly with front door armrest base panel with the 4 screws.

31. INSTALL POWER WINDOW REGULATOR SWITCH ASSEMBLY WITH FRONT DOOR ARMREST BASE PANEL (for Front Passenger Side)



(a) Install the power window regulator switch assembly with front door armrest base panel with the 4 screws.

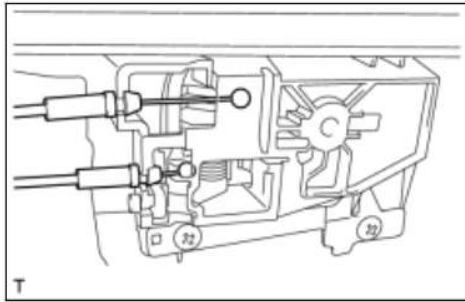
32. INSTALL FRONT DOOR INSIDE HANDLE SUB-ASSEMBLY



(a) Engage the 2 guides.

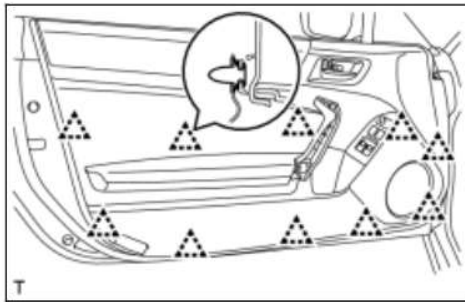
(b) Install the front door inside handle sub-assembly to the front door trim board sub-assembly with the 2 screws.

33. INSTALL FRONT DOOR TRIM BOARD SUB-ASSEMBLY



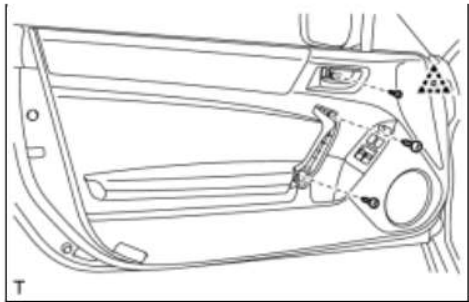
(a) Connect the front door lock remote control cable assembly and front door inside locking cable assembly to the front door inside handle.

(b) Connect each connector.

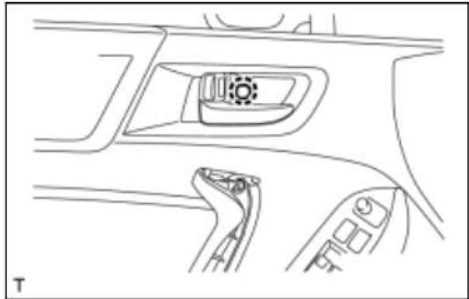


(c) Engage the 10 clips and install the front door trim board sub-assembly.

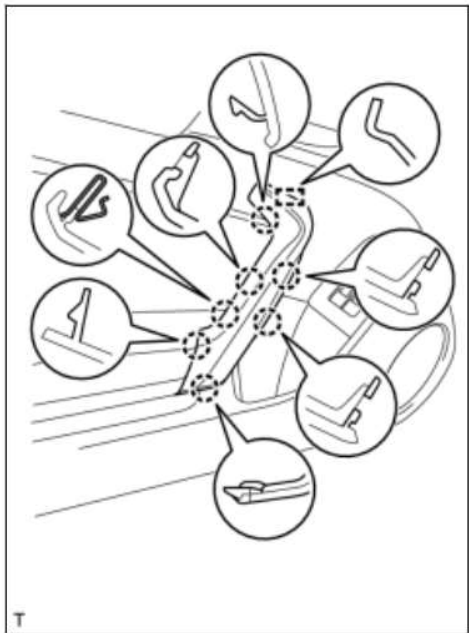
(d) Engage the clip and install the 3 screws.



(e) Engage the claw and install the cap.



34. INSTALL DOOR ARMREST COVER



(a) Engage the guide and 7 claws, and install the door armrest cover.

35. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque: 6.0 N·m (61 kgf·cm, 53in·lbf)

36. INITIALIZE POWER WINDOW CONTROL SYSTEM

INFO

37. INSPECT POWER WINDOW

INFO

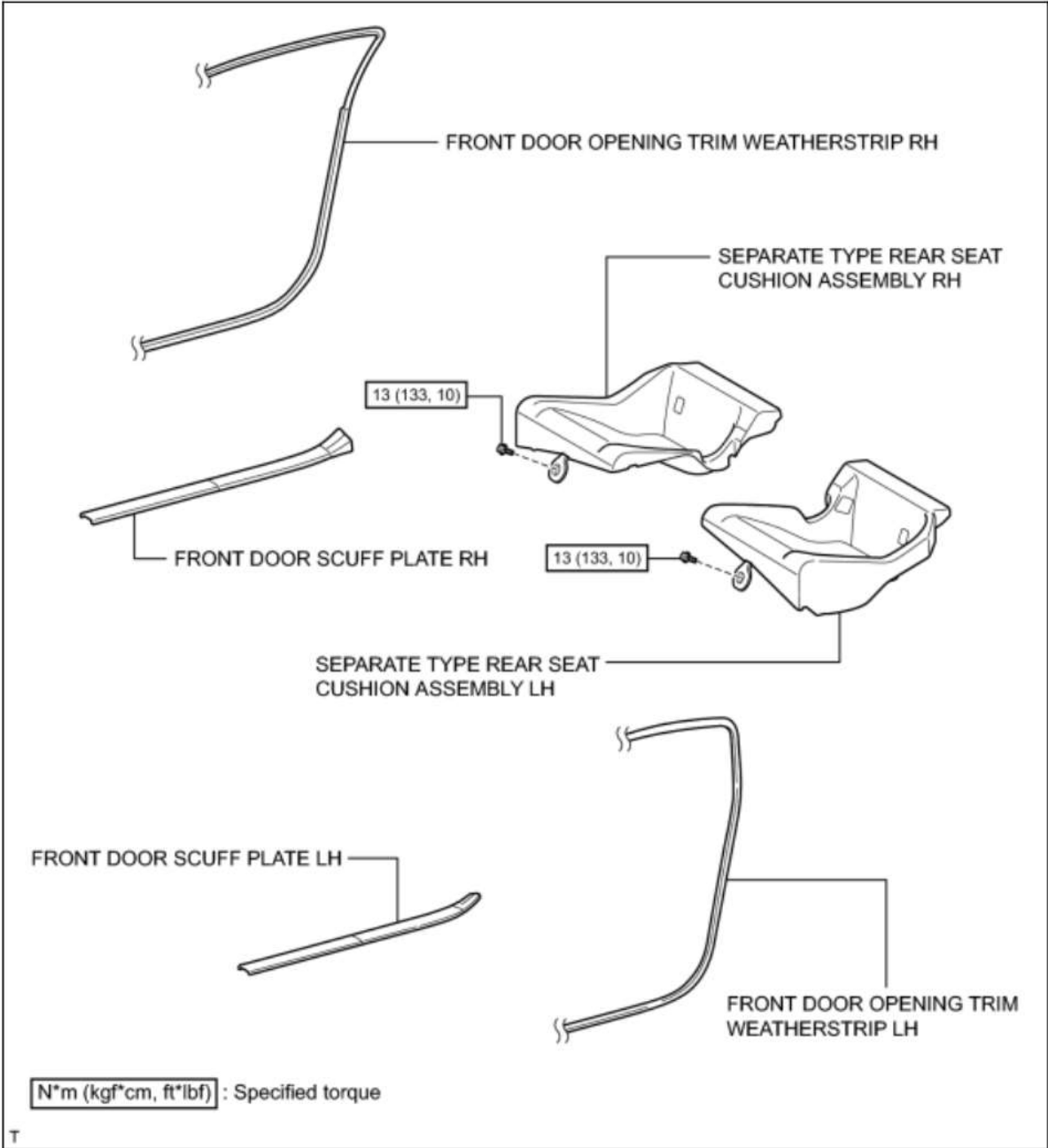


cardiagn.com

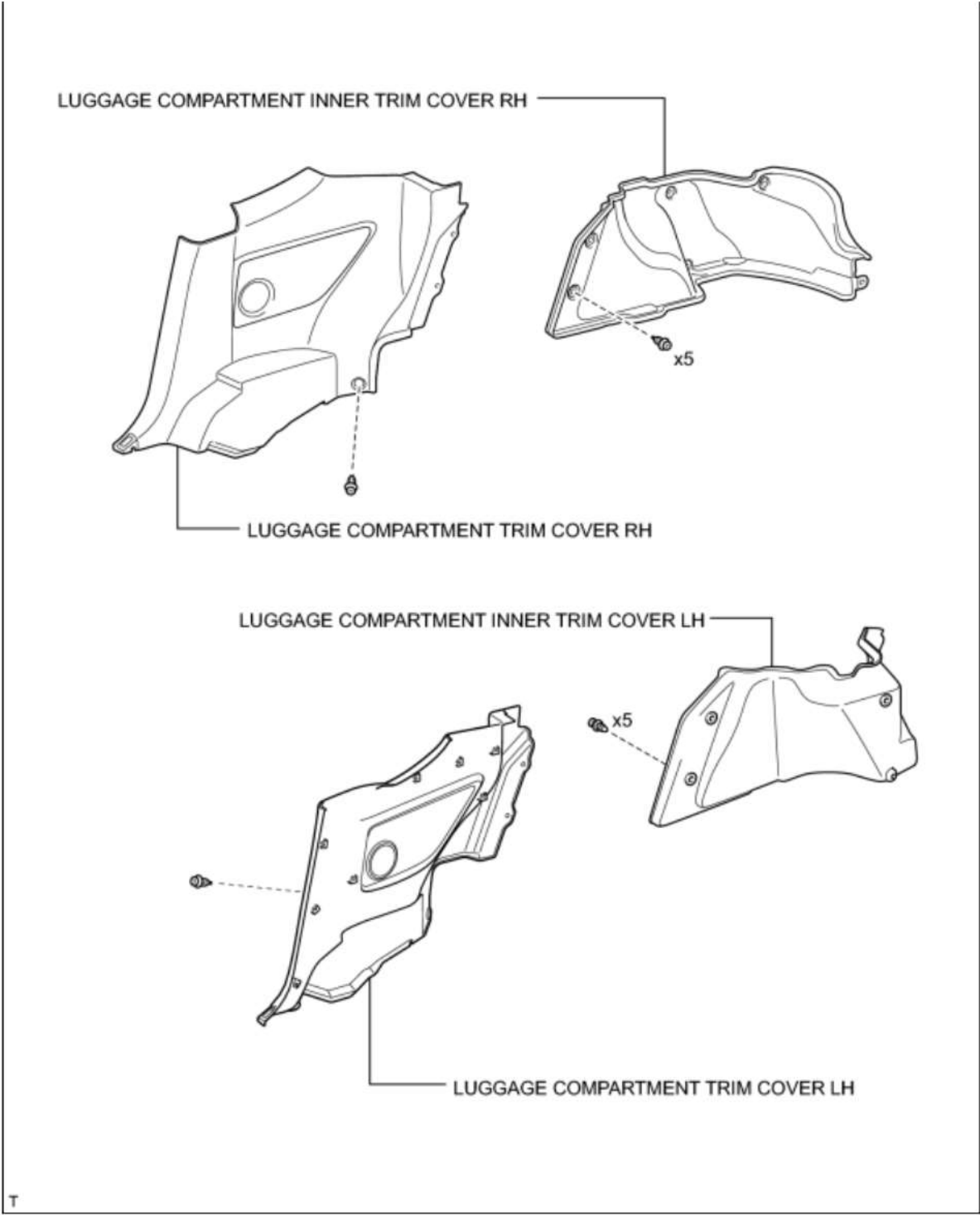
Last Modified: 3-27-2012	6.4 K	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000002W9G02BX
Title: DOOR / HATCH: FUEL LID LOCK CONTROL CABLE ASSEMBLY: COMPONENTS (2013 FR-S)		

COMPONENTS

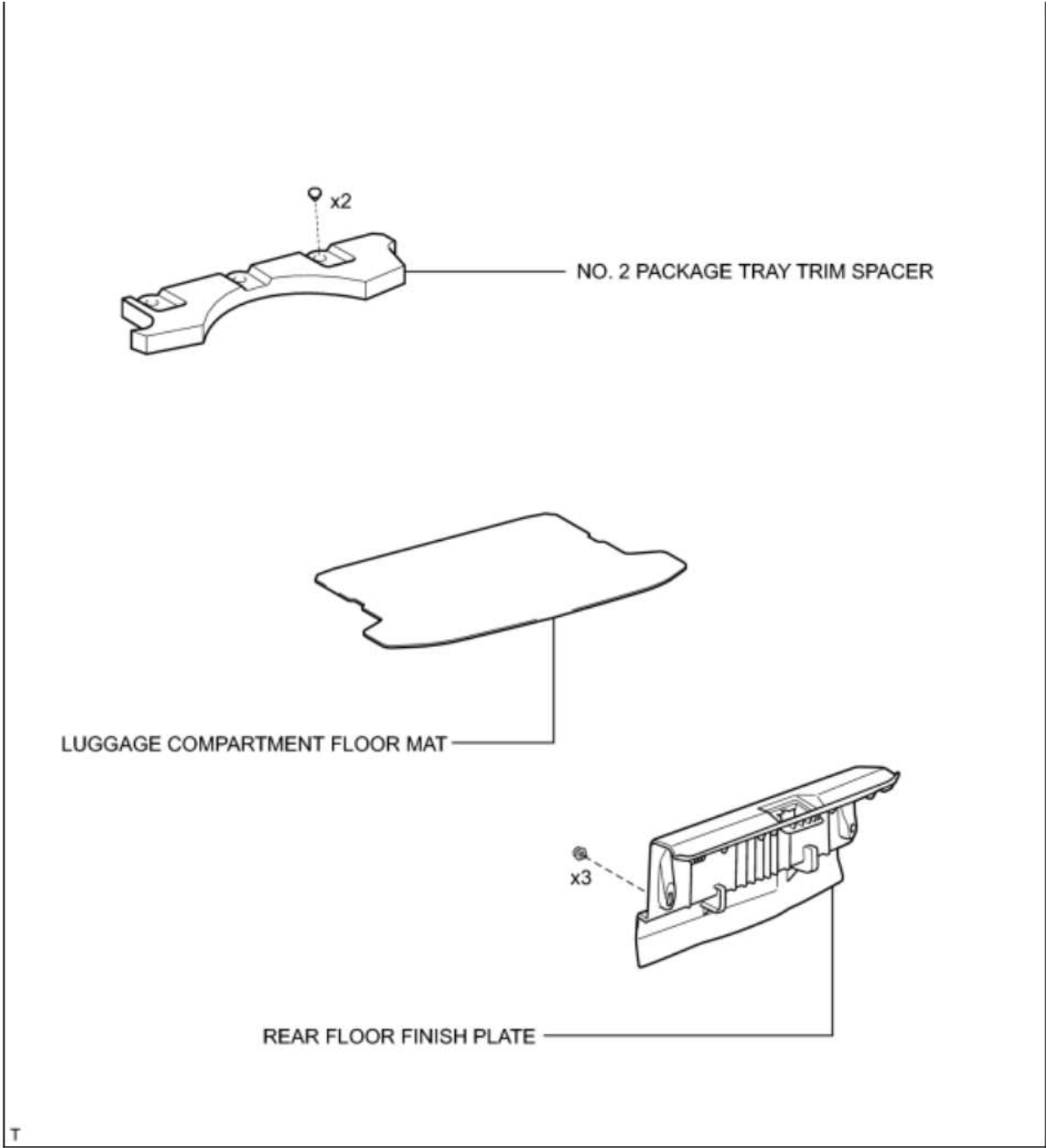
ILLUSTRATION



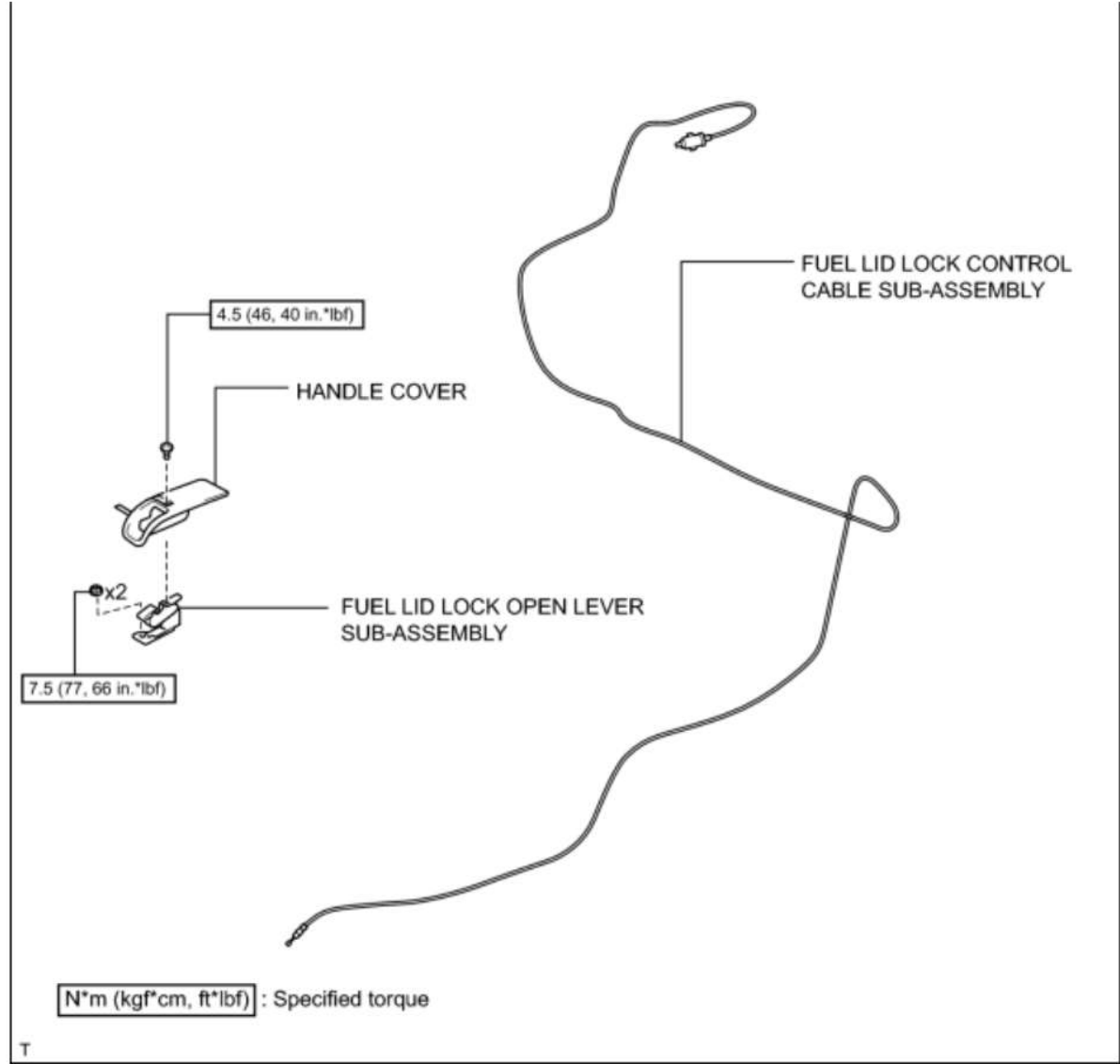
ILLUSTRATION



ILLUSTRATION



ILLUSTRATION

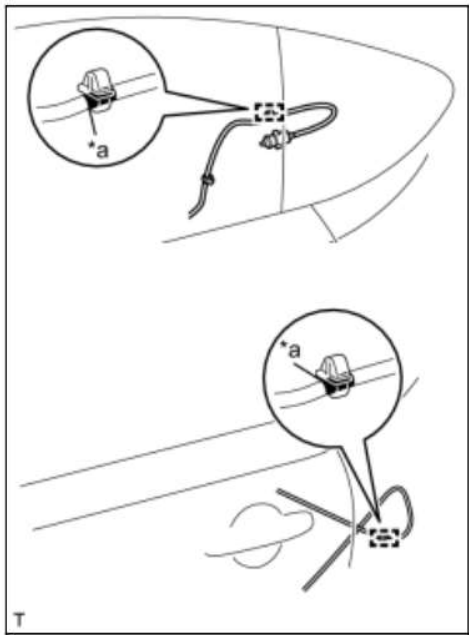


Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000002W9F03NX
Title: DOOR / HATCH: FUEL LID LOCK CONTROL CABLE ASSEMBLY: INSTALLATION (2013 FR-S)		

INSTALLATION

1. INSTALL FUEL LID LOCK CONTROL CABLE SUB-ASSEMBLY

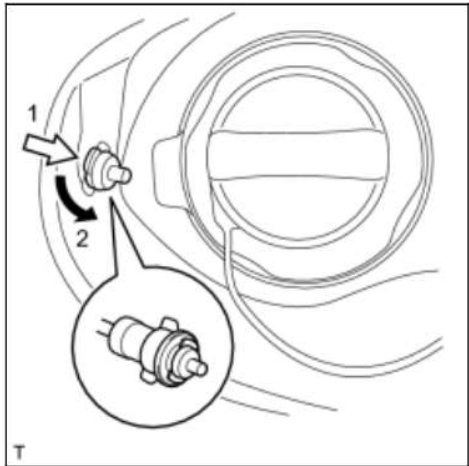
(a) Engage the 11 clamps.



(b) Check that the matchmark of the fuel lid lock control cable sub-assembly is aligned with the center of the clamp.

Text in Illustration

*a	Matchmark
----	-----------



(c) Install the fuel lid lock control cable sub-assembly as indicated by the arrows in the order shown in the illustration.

2. INSTALL FUEL LID LOCK OPEN LEVER SUB-ASSEMBLY

(a) Connect the fuel lid lock control cable sub-assembly.

- (b) Install the 2 nuts and fuel lid lock open lever sub-assembly.

Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)

- (c) Return the floor mat.

3. INSTALL HANDLE COVER

- (a) Install the handle cover with the screw.

Torque: 4.5 N·m (46 kgf·cm, 40in·lbf)

4. INSTALL NO. 2 PACKAGE TRAY TRIM SPACER

- (a) Install the NO. 2 package tray trim spacer.
(b) Install the 2 clips.

5. INSTALL LUGGAGE COMPARTMENT TRIM COVER LH

INFO

6. INSTALL LUGGAGE COMPARTMENT TRIM COVER RH

HINT:

Use the same procedure as for the LH side.

7. INSTALL LUGGAGE COMPARTMENT INNER TRIM COVER LH

INFO

8. INSTALL LUGGAGE COMPARTMENT INNER TRIM COVER RH

- (a) Install the 5 clips and the luggage compartment inner trim cover RH.

9. INSTALL REAR FLOOR FINISH PLATE

INFO

10. INSTALL LUGGAGE COMPARTMENT FLOOR MAT

11. INSTALL SEPARATE TYPE REAR SEAT CUSHION ASSEMBLY LH

INFO

12. INSTALL SEPARATE TYPE REAR SEAT CUSHION ASSEMBLY RH

HINT:

Use the same procedure as for the LH side.

13. INSTALL FRONT SEAT ASSEMBLY

INFO

14. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP LH

INFO

15. INSTALL FRONT DOOR OPENING TRIM WEATHERSTRIP RH

HINT:

Use the same procedure as for the LH side.

16. INSTALL FRONT DOOR SCUFF PLATE LH

INFO

17. INSTALL FRONT DOOR SCUFF PLATE RH

HINT:

Use the same procedure as for the LH side.



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000002W9H030X
Title: DOOR / HATCH: FUEL LID LOCK CONTROL CABLE ASSEMBLY: REMOVAL (2013 FR-S)		

REMOVAL

1. REMOVE FRONT DOOR SCUFF PLATE LH (for LH Side) INFO

2. REMOVE FRONT DOOR SCUFF PLATE RH (for RH Side)

HINT:

Use the same procedure as for the LH side.

3. DISCONNECT FRONT DOOR OPENING TRIM WEATHERSTRIP LH

HINT:

Disconnect the front door opening trim weatherstrip to the extent that allows the removal of the luggage compartment trim cover LH.

4. DISCONNECT FRONT DOOR OPENING TRIM WEATHERSTRIP RH

HINT:

Use the same procedure as for the LH side.

5. REMOVE FRONT SEAT ASSEMBLY

INFO

6. REMOVE SEPARATE TYPE REAR SEAT CUSHION ASSEMBLY LH INFO

7. REMOVE SEPARATE TYPE REAR SEAT CUSHION ASSEMBLY RH

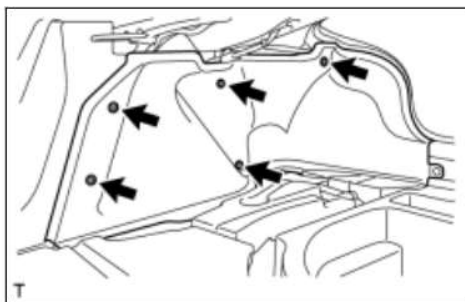
HINT:

Use the same procedure as for the LH side.

8. REMOVE LUGGAGE COMPARTMENT FLOOR MAT

9. REMOVE REAR FLOOR FINISH PLATE INFO

10. REMOVE LUGGAGE COMPARTMENT INNER TRIM COVER RH



(a) Disengage the 5 clips and remove the luggage compartment inner trim cover RH.

11. REMOVE LUGGAGE COMPARTMENT INNER TRIM COVER LH

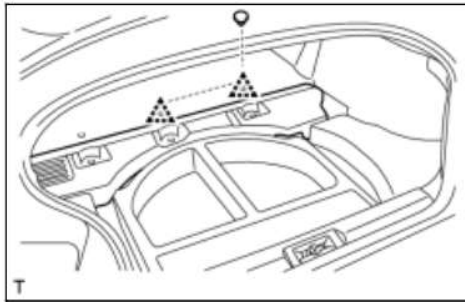
INFO

12. REMOVE LUGGAGE COMPARTMENT TRIM COVER LH

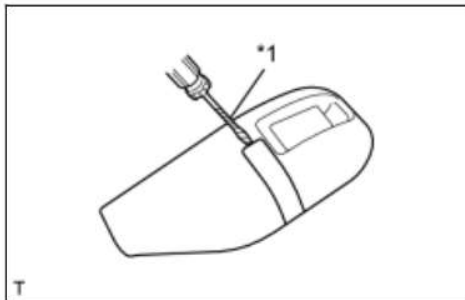
INFO

13. REMOVE LUGGAGE COMPARTMENT TRIM COVER RH**HINT:**

Use the same procedure as for the LH side.

14. REMOVE NO. 2 PACKAGE TRAY TRIM SPACER

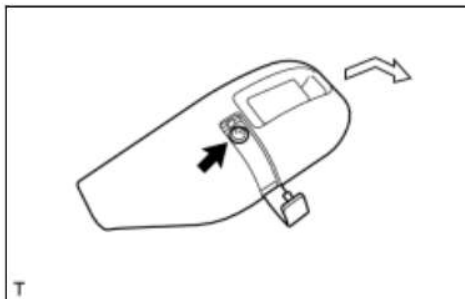
- (a) Using a clip remover, disengage the 2 clips and remove the NO. 2 package tray trim spacer.

15. REMOVE HANDLE COVER

- (a) Using a screwdriver with its tip wrapped in protective tape, disengage the claw.

Text in Illustration

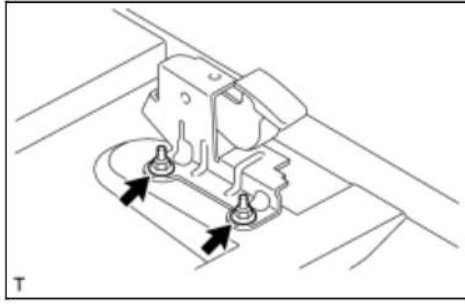
*1	Protective Tape
----	-----------------



- (b) Remove the screw.

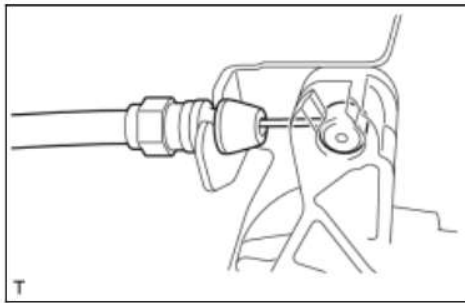
- (c) Remove the handle cover as shown in the illustration.

16. REMOVE FUEL LID LOCK OPEN LEVER SUB-ASSEMBLY



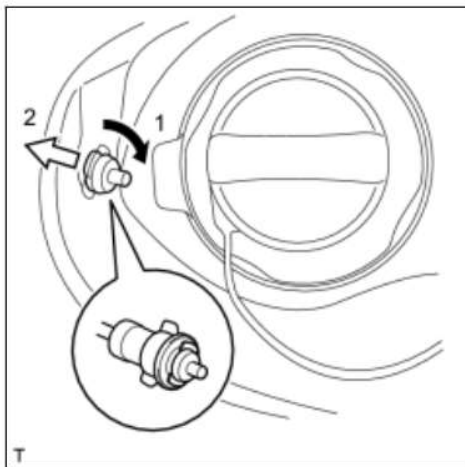
(a) Peel back the floor carpet.

(b) Remove the 2 nuts and the fuel lid lock open lever sub-assembly.



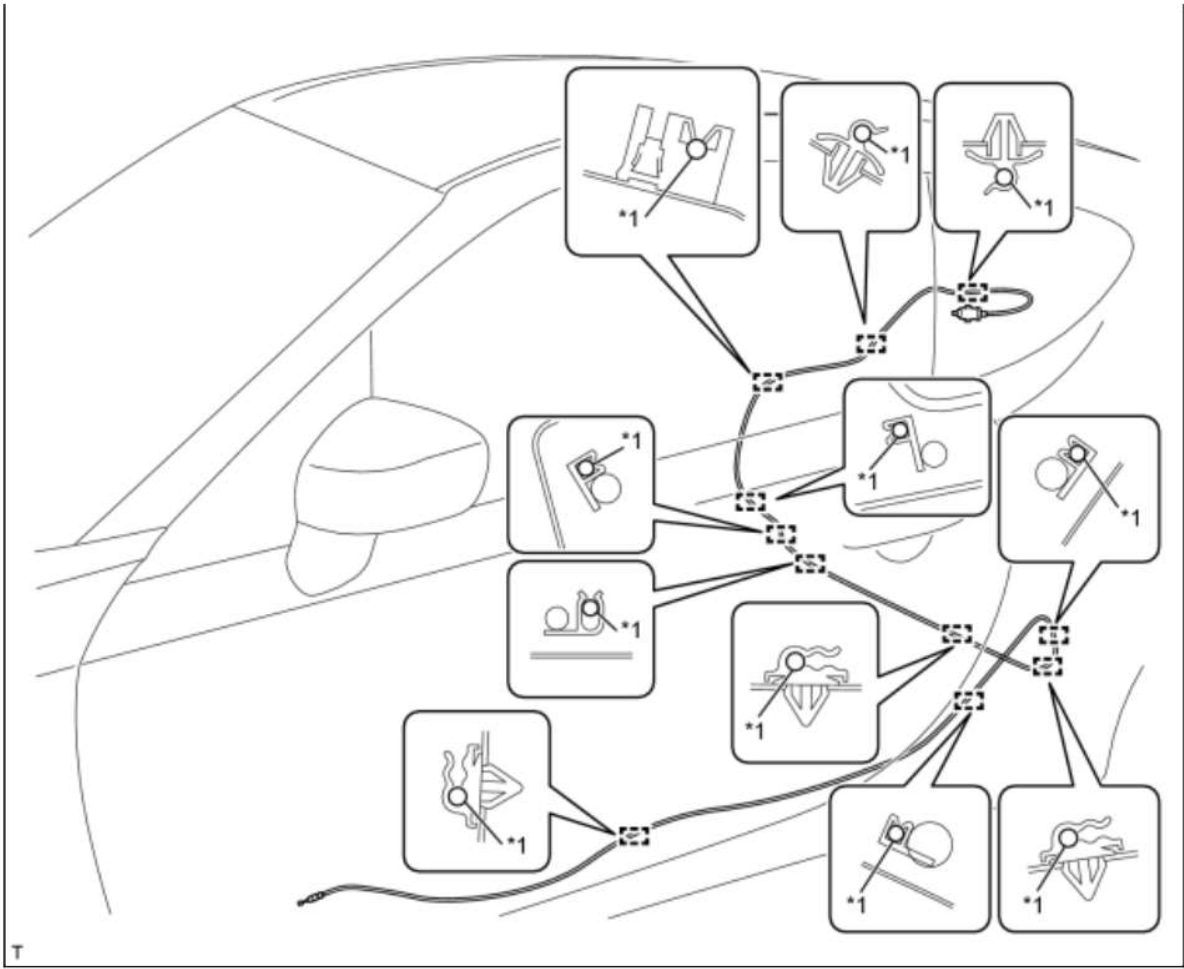
(c) Disconnect the fuel lid lock control cable sub-assembly.

17. REMOVE FUEL LID LOCK CONTROL CABLE SUB-ASSEMBLY



(a) Remove the fuel lid lock control cable sub-assembly as indicated by the arrows, in the order shown in the illustration.

(b) Using a screwdriver with its tip wrapped in protective tape, disengage the 11 clamps and remove the fuel lid lock control cable sub-assembly.



Text in Illustration

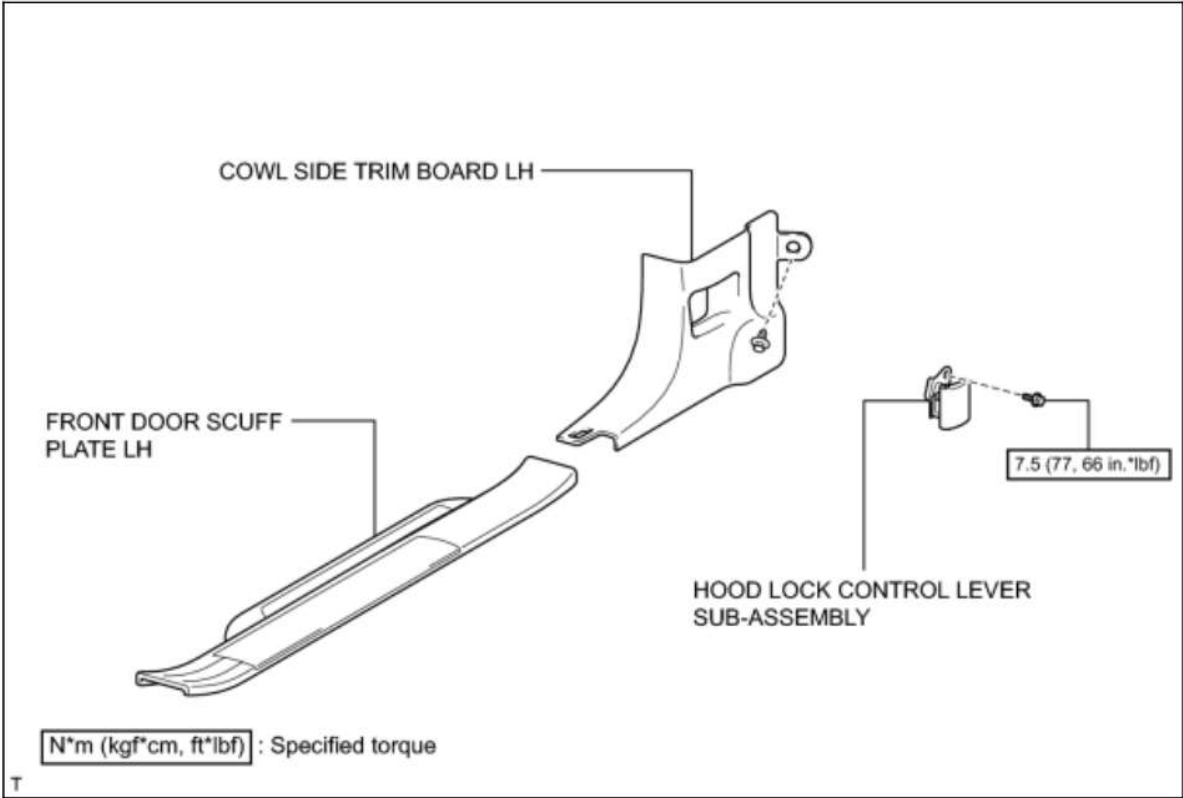
*1	Fuel Lid Lock Control Cable Sub-Assembly	-	-
----	--	---	---



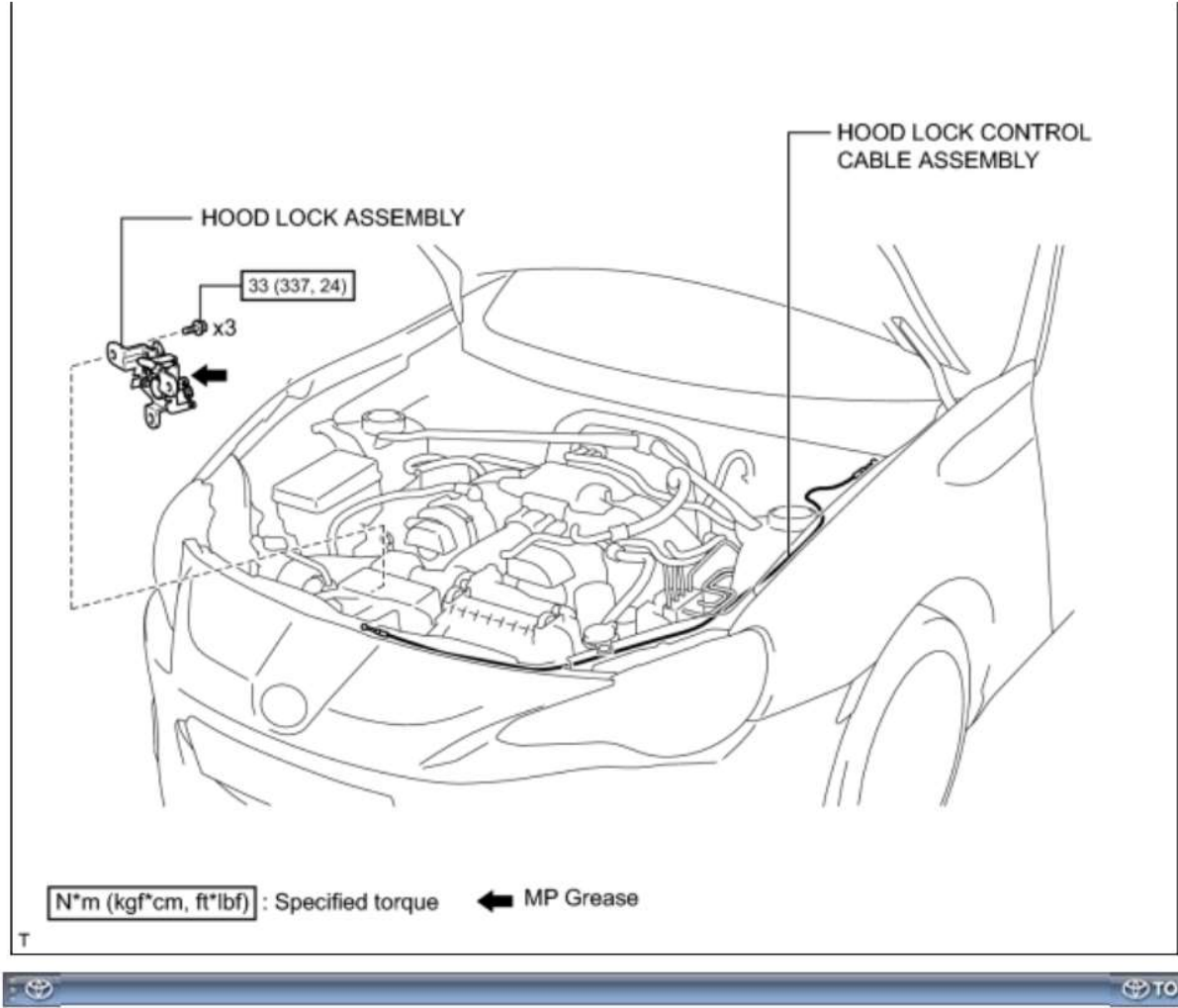
Last Modified: 3-27-2012	6.4 K	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000Y5406YX
Title: DOOR / HATCH: HOOD LOCK CONTROL CABLE ASSEMBLY: COMPONENTS (2013 FR-S)		

COMPONENTS

ILLUSTRATION



ILLUSTRATION

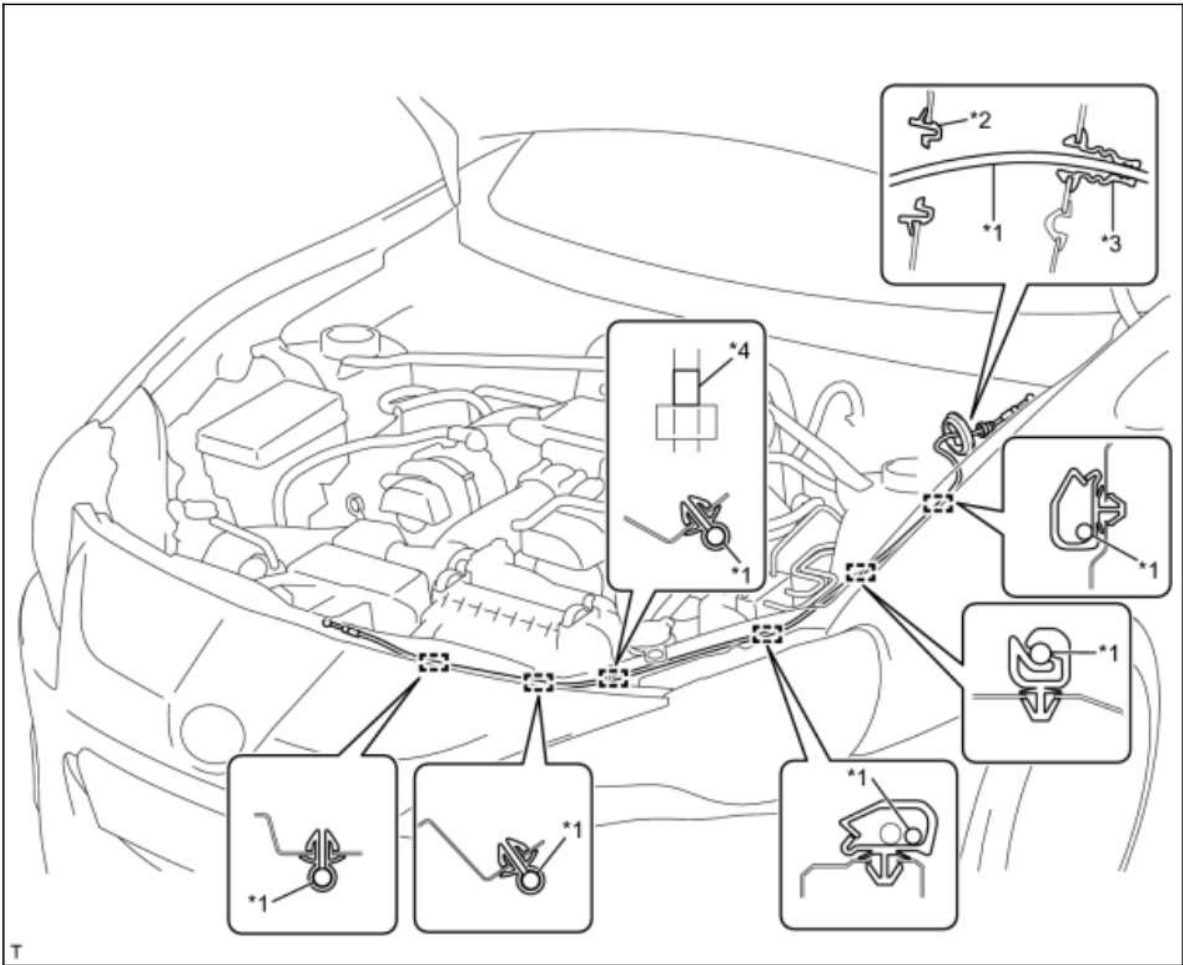


Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000Y530AMX
Title: DOOR / HATCH: HOOD LOCK CONTROL CABLE ASSEMBLY: INSTALLATION (2013 FR-S)		

INSTALLATION

1. INSTALL HOOD LOCK CONTROL CABLE ASSEMBLY

(a) Pass the hood lock control cable assembly into the engine compartment.



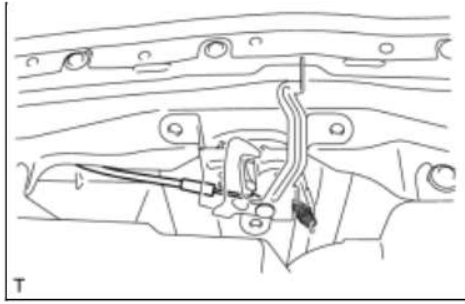
Text in Illustration

*1	Hood Lock Control Cable	*2	Grommet
*3	Hood Cable Grommet	*4	Matchmark

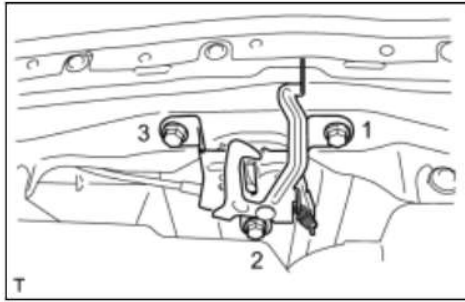
(b) Engage 6 clamps shown in the illustration.

2. INSTALL HOOD LOCK ASSEMBLY

(a) Apply MP grease to the sliding areas of the hood lock assembly.



(b) Connect the hood lock control cable assembly.



(c) Install the hood lock assembly with the 3 bolts in the order shown in the illustration.

Torque: 33 N·m (337 kgf·cm, 24ft·lbf)

3. INSTALL HOOD LOCK CONTROL LEVER SUB-ASSEMBLY

(a) Connect the hood lock control cable assembly to install the hood lock control lever sub-assembly.

(b) Install the hood lock control lever sub-assembly with the bolt

Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)

4. INSPECT HOOD SUB-ASSEMBLY

INFO

5. ADJUST HOOD SUB-ASSEMBLY

INFO

6. INSTALL AIR CLEANER CAP WITH AIR CLEANER HOSE

INFO

7. INSTALL COWL SIDE TRIM BOARD LH

INFO

8. INSTALL FRONT DOOR SCUFF PLATE LH

INFO



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000Y5509ZX
Title: DOOR / HATCH: HOOD LOCK CONTROL CABLE ASSEMBLY: REMOVAL (2013 FR-S)		

REMOVAL

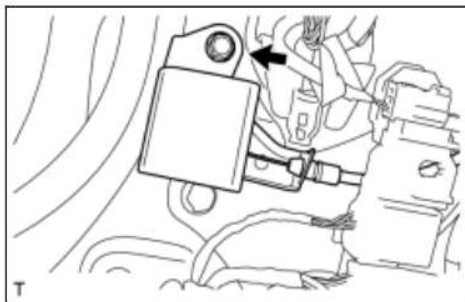
1. REMOVE FRONT DOOR SCUFF PLATE LH

[INFO](#)

2. REMOVE COWL SIDE TRIM BOARD LH

[INFO](#)

3. REMOVE HOOD LOCK CONTROL LEVER SUB-ASSEMBLY



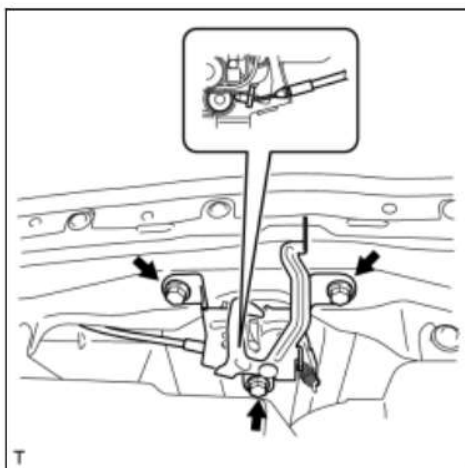
(a) Remove the bolt and hood lock control lever sub-assembly.

(b) Disconnect the hood lock control cable assembly.

4. REMOVE AIR CLEANER CAP WITH AIR CLEANER HOSE

[INFO](#)

5. REMOVE HOOD LOCK ASSEMBLY

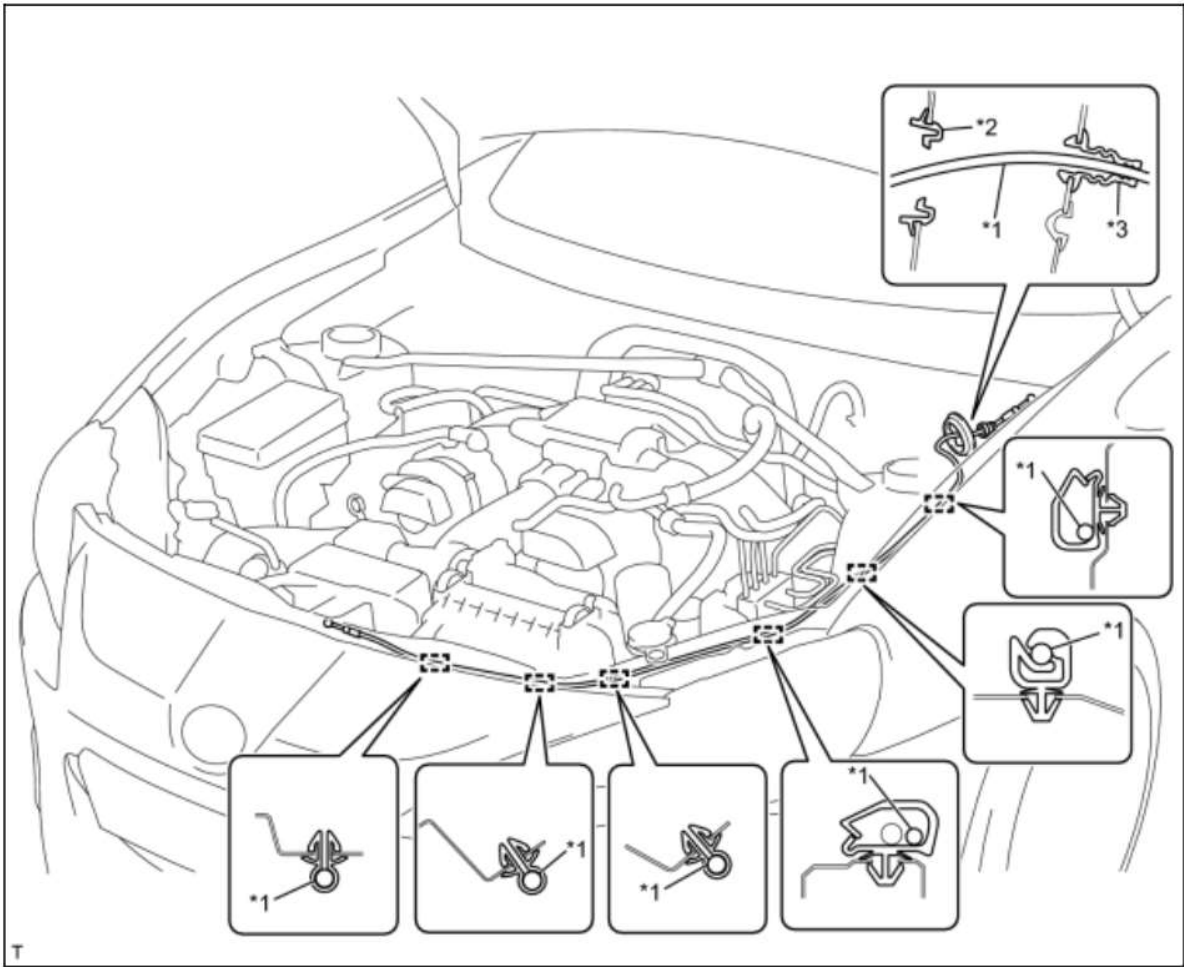


(a) Remove the 3 bolts and hood lock assembly.

(b) Disconnect the hood lock control cable assembly.

6. REMOVE HOOD LOCK CONTROL CABLE ASSEMBLY

(a) Using a screwdriver, disengage 6 clamps shown in the illustration.



Text in Illustration

*1	Hood Lock Control Cable	*2	Grommet
*3	Hood Cable Grommet	-	-

HINT:

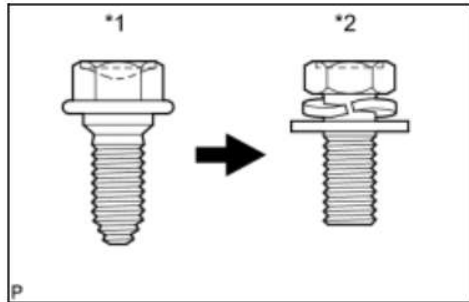
Tape the screwdriver tip before use.

- (b) Pull the hood lock control cable assembly from the engine compartment and remove it.



Last Modified: 3-27-2012	6.4 N	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000XB506SX
Title: DOOR / HATCH: HOOD: ADJUSTMENT (2013 FR-S)		

ADJUSTMENT



HINT:

- Centering bolts are used to mount the hood hinge and hood lock. The hood and hood lock cannot be adjusted with the centering bolts installed. Substitute the centering bolts with standard bolts when making adjustments.
- Specified torque for standard bolts is shown in the standard bolt chart [INFO](#).

Text in Illustration

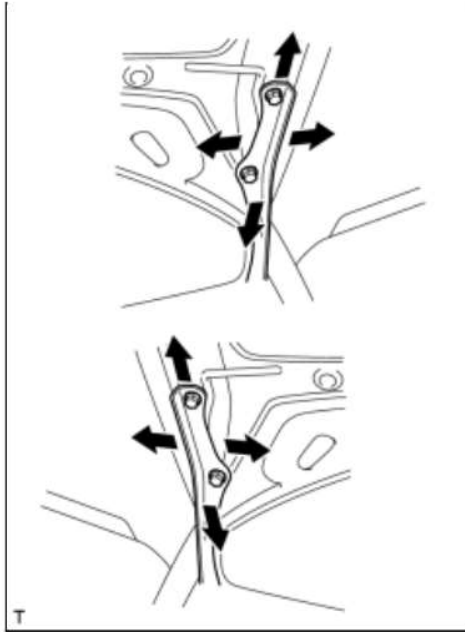
*1	Centering Bolt
*2	Standard Bolt

1. INSPECT HOOD SUB-ASSEMBLY [INFO](#)

2. ADJUST HOOD SUB-ASSEMBLY

- (a) Horizontally and vertically adjust the hood.

(1) Loosen the 4 hinge bolts of the hood.

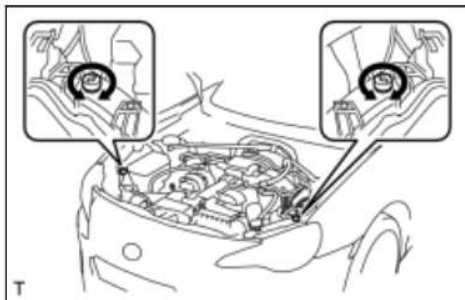


(2) Adjust the clearance between the hood and front fender by moving the hood.

(3) Tighten the 4 hinge bolts after the adjustment.

Torque: 18 N·m (184 kgf·cm, 13ft·lbf)

(b) Adjust the height of the front end of the hood using the cushion rubbers.



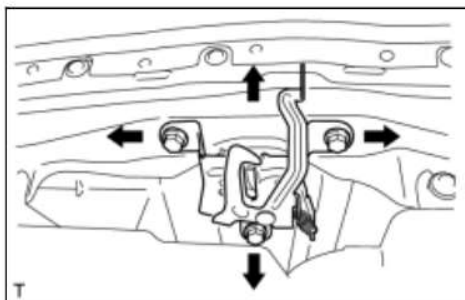
(1) Adjust the 2 cushion rubbers so that the heights of the hood and fender are aligned.

HINT:

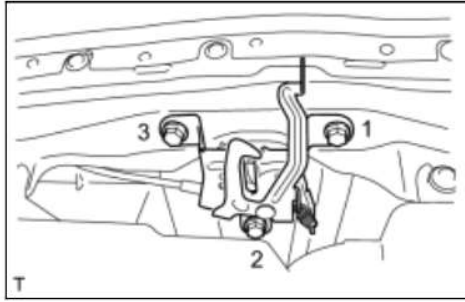
Raise or lower the front end of the hood by turning the 2 cushion rubbers.

(c) Adjust the hood lock.

(1) Loosen the 3 bolts.



(2) Adjust the hood lock position so that the striker can enter it smoothly.



(3) Tighten the 3 bolts after the adjustment in the order shown in the illustration.

Torque: 33 N·m (337 kgf·cm, 24ft·lbf)

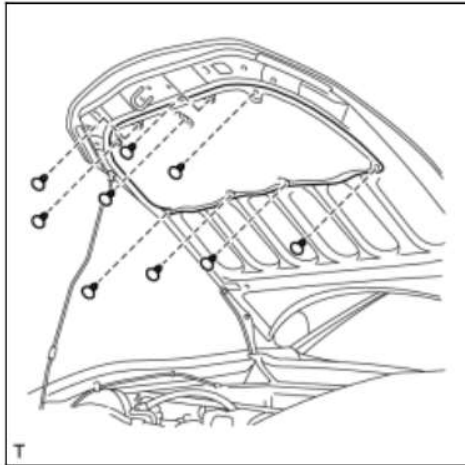
(4) Check that the striker can engage smoothly with the hood lock.



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000002Y4M049X
Title: DOOR / HATCH: HOOD: DISASSEMBLY (2013 FR-S)		

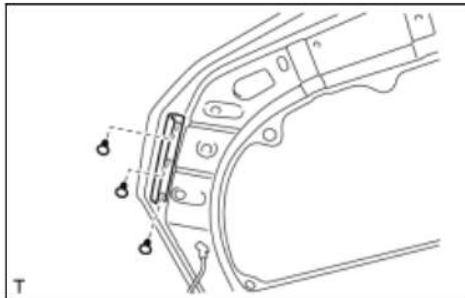
DISASSEMBLY

1. REMOVE HOOD INSULATOR



(a) Using a clip remover, remove the 9 clips and hood insulator.

2. REMOVE HOOD TO RADIATOR SUPPORT SEAL RH



(a) Using a clip remover, remove the 3 clips and hood to radiator support seal RH.

3. REMOVE HOOD TO RADIATOR SUPPORT SEAL LH

HINT:

Use the same procedure as for the RH side.

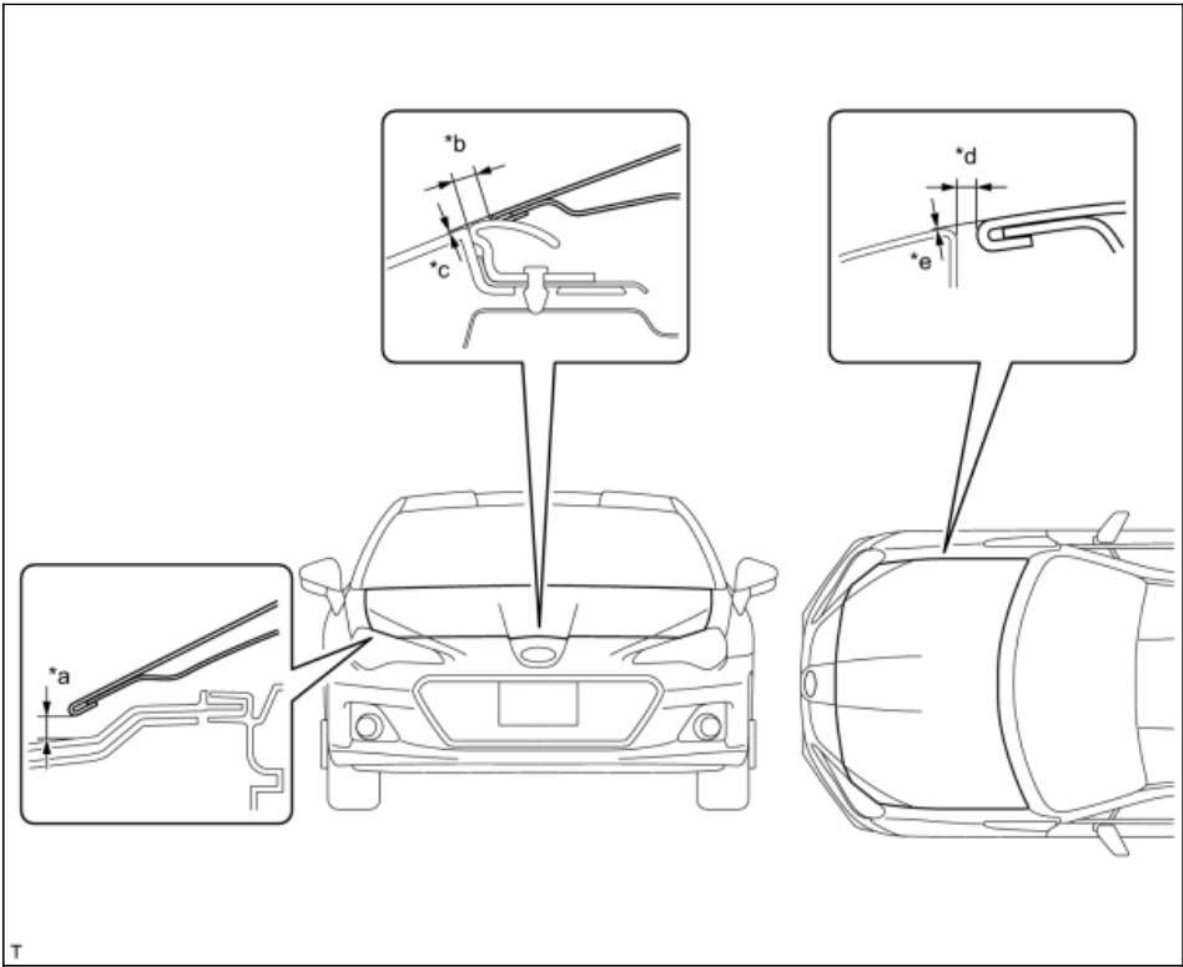


Last Modified: 3-27-2012	6.4 G	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000XB7067X
Title: DOOR / HATCH: HOOD: ON-VEHICLE INSPECTION (2013 FR-S)		

ON-VEHICLE INSPECTION

1. INSPECT HOOD SUB-ASSEMBLY

(a) Check that the clearance measurements of areas *a through *e are within each standard range.



Standard Clearance

AREA	MEASUREMENT	AREA	MEASUREMENT
*a	5.8 to 9.8 mm (0.2283 to 0.3858 in.)	*b	3.0 to 7.0 mm (0.1181 to 0.2756 in.)
*c	-2.0 to 2.0 mm (-0.0787 to 0.0787 in.)	*d	2.0 to 5.0 mm (0.0787 to 0.1969 in.)
*e	-2.0 to 1.0 mm (-0.0787 to 0.0394 in.)	-	-

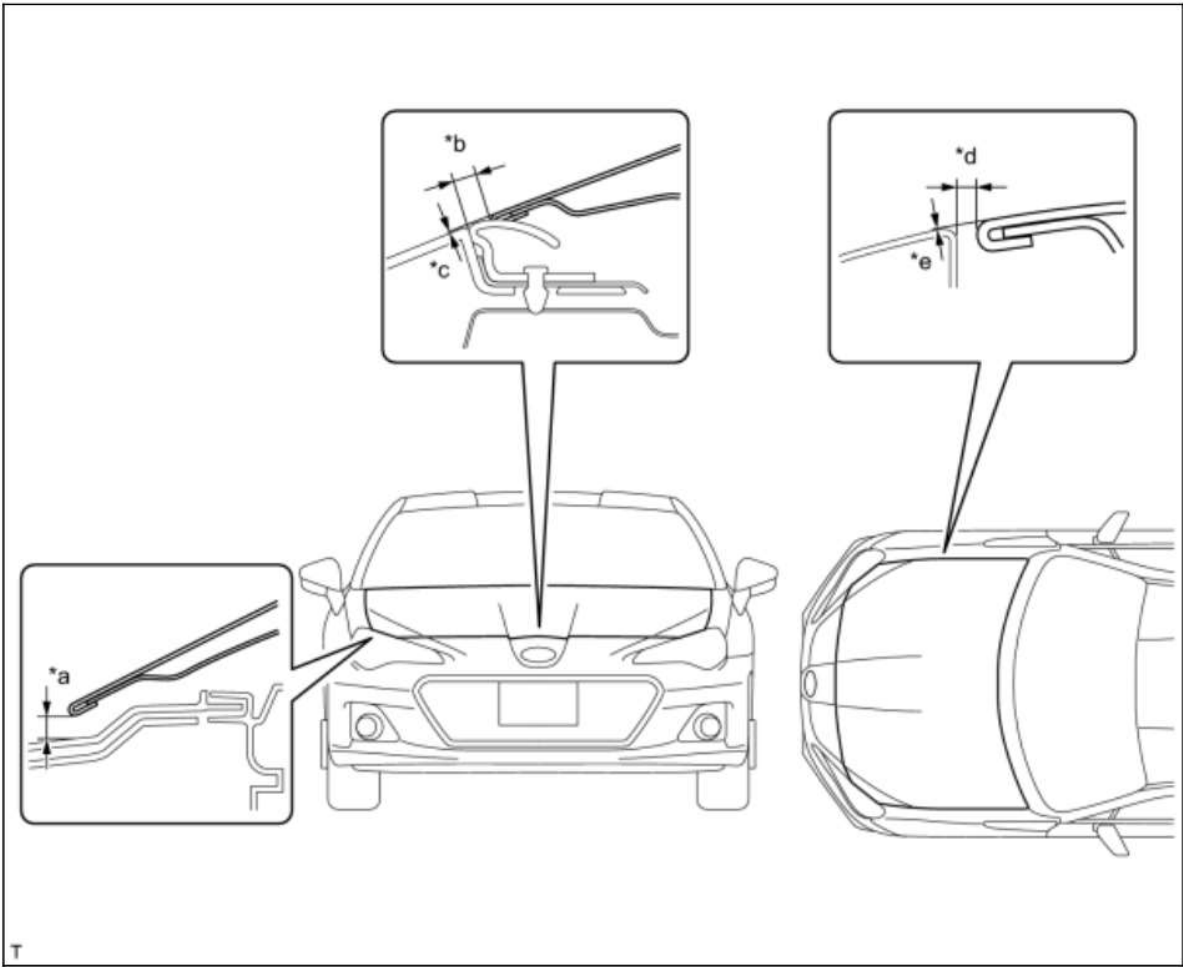


Last Modified: 3-27-2012	6.4 G	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000XB7067X
Title: DOOR / HATCH: HOOD: ON-VEHICLE INSPECTION (2013 FR-S)		

ON-VEHICLE INSPECTION

1. INSPECT HOOD SUB-ASSEMBLY

(a) Check that the clearance measurements of areas *a through *e are within each standard range.



Standard Clearance

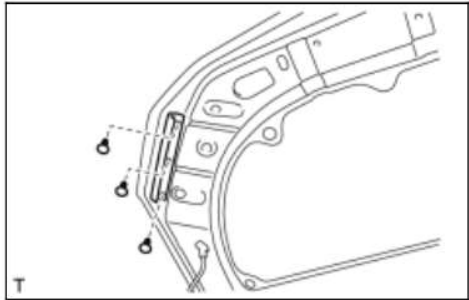
AREA	MEASUREMENT	AREA	MEASUREMENT
*a	5.8 to 9.8 mm (0.2283 to 0.3858 in.)	*b	3.0 to 7.0 mm (0.1181 to 0.2756 in.)
*c	-2.0 to 2.0 mm (-0.0787 to 0.0787 in.)	*d	2.0 to 5.0 mm (0.0787 to 0.1969 in.)
*e	-2.0 to 1.0 mm (-0.0787 to 0.0394 in.)	-	-



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000002Y4N04CX
Title: DOOR / HATCH: HOOD: REASSEMBLY (2013 FR-S)		

REASSEMBLY

1. INSTALL HOOD TO RADIATOR SUPPORT SEAL RH



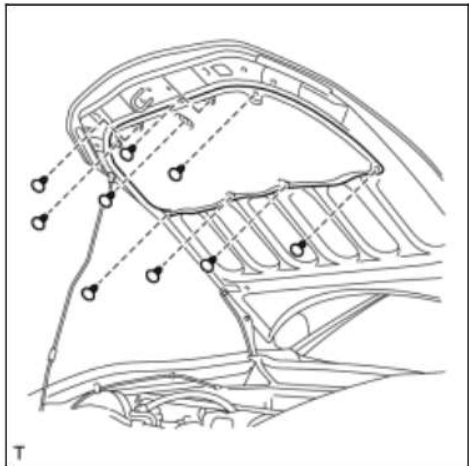
(a) Install the hood to radiator support seal RH with the 3 clips.

2. INSTALL HOOD TO RADIATOR SUPPORT SEAL LH

HINT:

Use the same procedure as for the RH side.

3. INSTALL HOOD INSULATOR



(a) Install the hood insulator with the 9 clips.

4. INSPECT HOOD SUB-ASSEMBLY

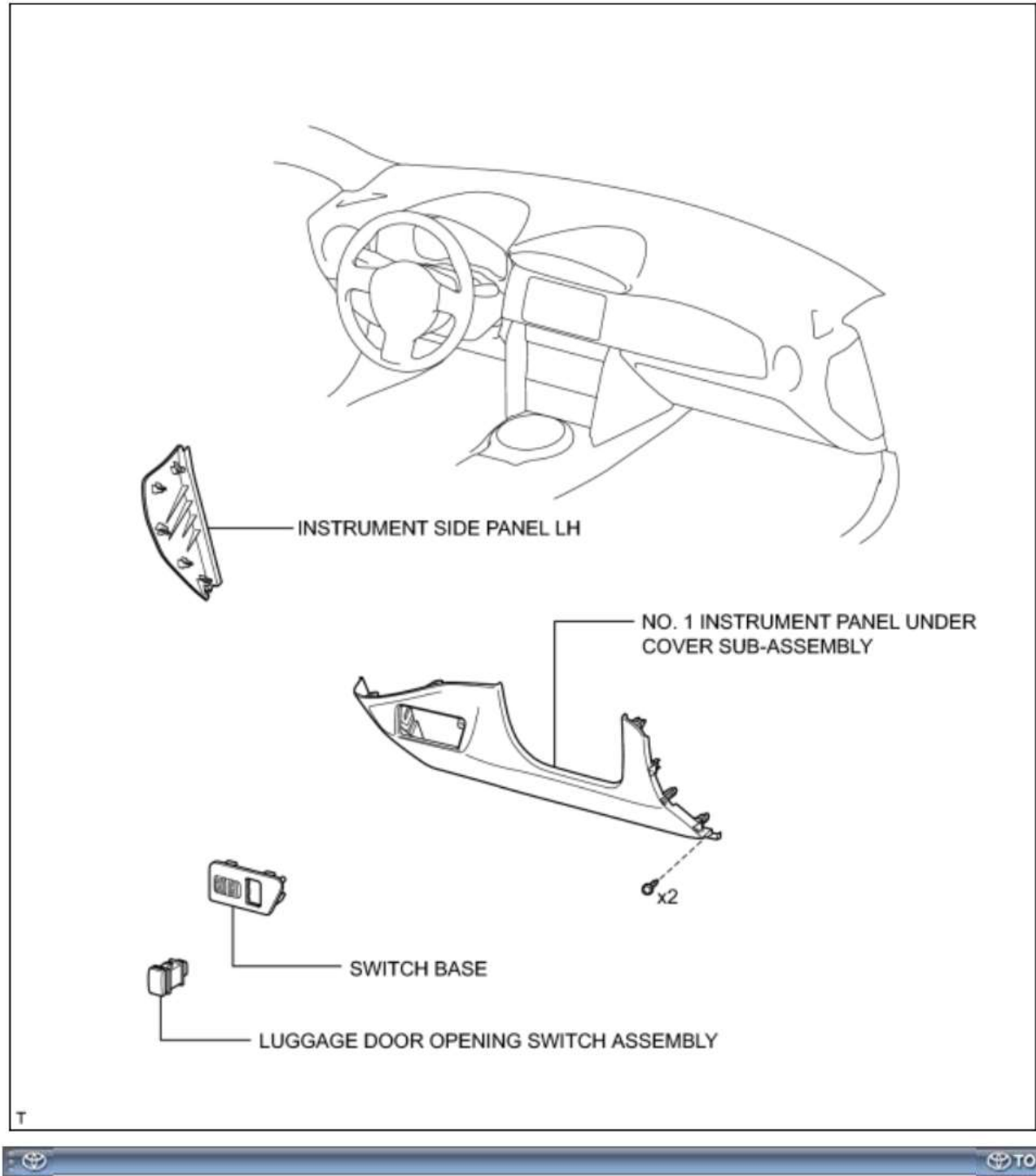
INFO

  TOYOTA

Last Modified: 3-27-2012	6.4 K	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001OIV04VX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER INNER SWITCH: COMPONENTS (2013 FR-S)		

COMPONENTS

ILLUSTRATION



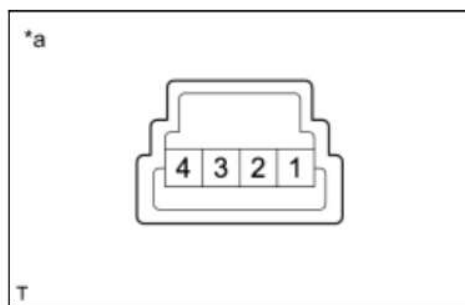
Last Modified: 3-27-2012	6.4 G	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM0000020BR010X
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER INNER SWITCH: INSPECTION (2013 FR-S)		

INSPECTION

1. INSPECT LUGGAGE DOOR OPENING SWITCH ASSEMBLY

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

Standard Resistance:



TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
4 - 1	Pushed (ON)	Below 1 Ω
4 - 1	Not pushed (OFF)	10 k Ω or higher

Text in Illustration

*a	Component without harness connected (Luggage Door Opening Switch Assembly)
----	---

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



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001OIU06IX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER INNER SWITCH: INSTALLATION (2013 FR-S)		

INSTALLATION

1. INSTALL LUGGAGE DOOR OPENING SWITCH ASSEMBLY

(a) Engage the 2 claws and install the luggage door opening switch assembly.

2. INSTALL SWITCH BASE

INFO

3. INSTALL NO. 1 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY

INFO

4. INSTALL INSTRUMENT SIDE PANEL LH

INFO

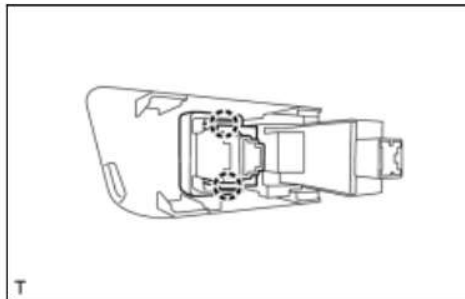


cardiagn.com

Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001OIW06JX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER INNER SWITCH: REMOVAL (2013 FR-S)		

REMOVAL

1. REMOVE INSTRUMENT SIDE PANEL LH [INFO](#)
2. REMOVE NO. 1 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY [INFO](#)
3. REMOVE SWITCH BASE [INFO](#)
4. REMOVE LUGGAGE DOOR OPENING SWITCH ASSEMBLY



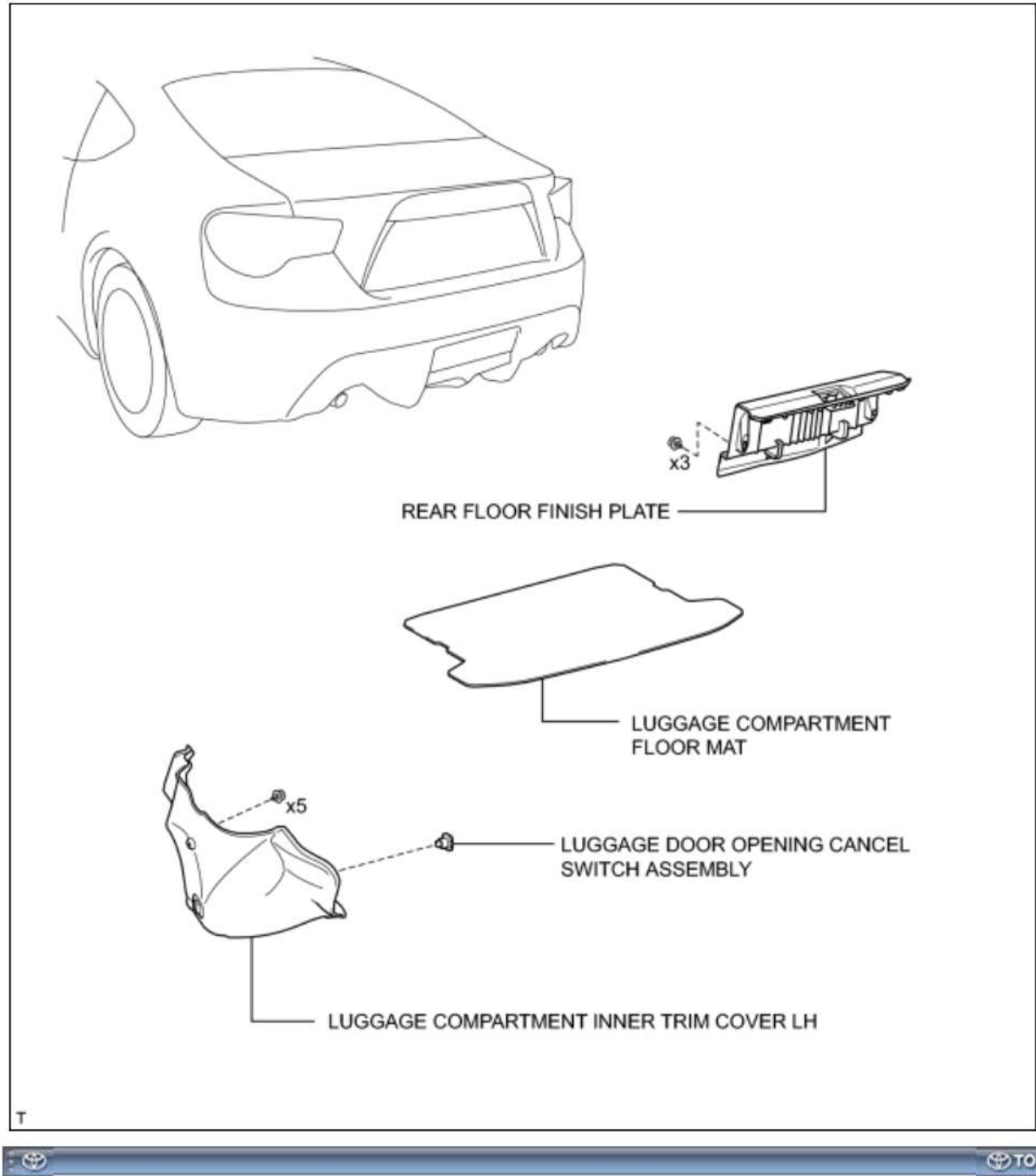
(a) Disengage the 2 claws and remove the luggage door opening switch assembly.



Last Modified: 3-27-2012	6.4 K	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001XT600XX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER MAIN SWITCH: COMPONENTS (2013 FR-S)		

COMPONENTS

ILLUSTRATION



cardiagn.com

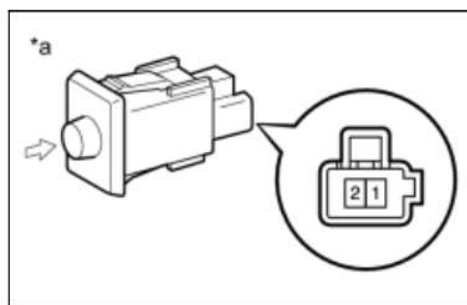
Last Modified: 3-27-2012	6.4 G	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM0000020BS00PX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER MAIN SWITCH: INSPECTION (2013 FR-S)		

INSPECTION

1. INSPECT LUGGAGE DOOR OPENING CANCEL SWITCH ASSEMBLY

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

Standard Resistance:



TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
1 - 2	Pushed (ON)	Below 1 Ω
1 - 2	Not pushed (OFF)	10 k Ω or higher

Text in Illustration

*a	Component without harness connected (Luggage Door Opening Cancel Switch Assembly)
----	--

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



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001XT501LX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER MAIN SWITCH: INSTALLATION (2013 FR-S)		

INSTALLATION

1. INSTALL LUGGAGE DOOR OPENING CANCEL SWITCH ASSEMBLY

- (a) Engage the 2 claws and install the luggage door opening cancel switch assembly.

2. INSTALL LUGGAGE COMPARTMENT INNER TRIM COVER LH

- (a) Connect the connector.
(b) Install the luggage compartment inner trim cover LH with the 5 clips.

3. INSTALL REAR FLOOR FINISH PLATE INFO

4. INSTALL LUGGAGE COMPARTMENT FLOOR MAT



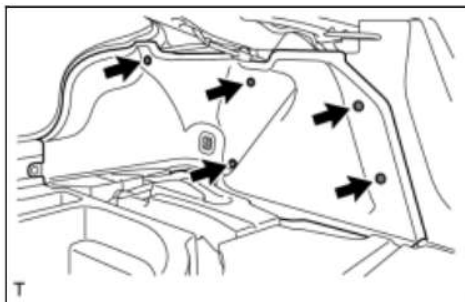
Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001XT701LX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER MAIN SWITCH: REMOVAL (2013 FR-S)		

REMOVAL

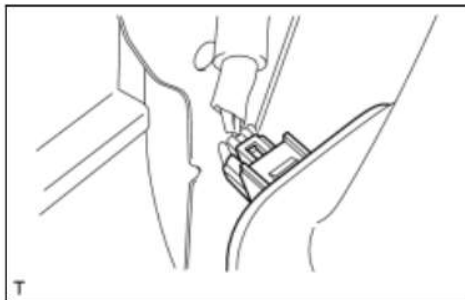
1. REMOVE LUGGAGE COMPARTMENT FLOOR MAT

2. REMOVE REAR FLOOR FINISH PLATE INFO

3. REMOVE LUGGAGE COMPARTMENT INNER TRIM COVER LH

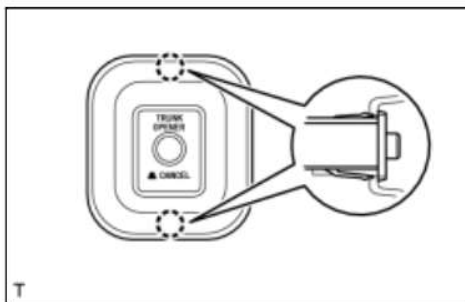


(a) Disengage the 5 clips.



(b) Disconnect the connector and remove the luggage compartment inner trim cover LH.

4. REMOVE LUGGAGE DOOR OPENING CANCEL SWITCH ASSEMBLY

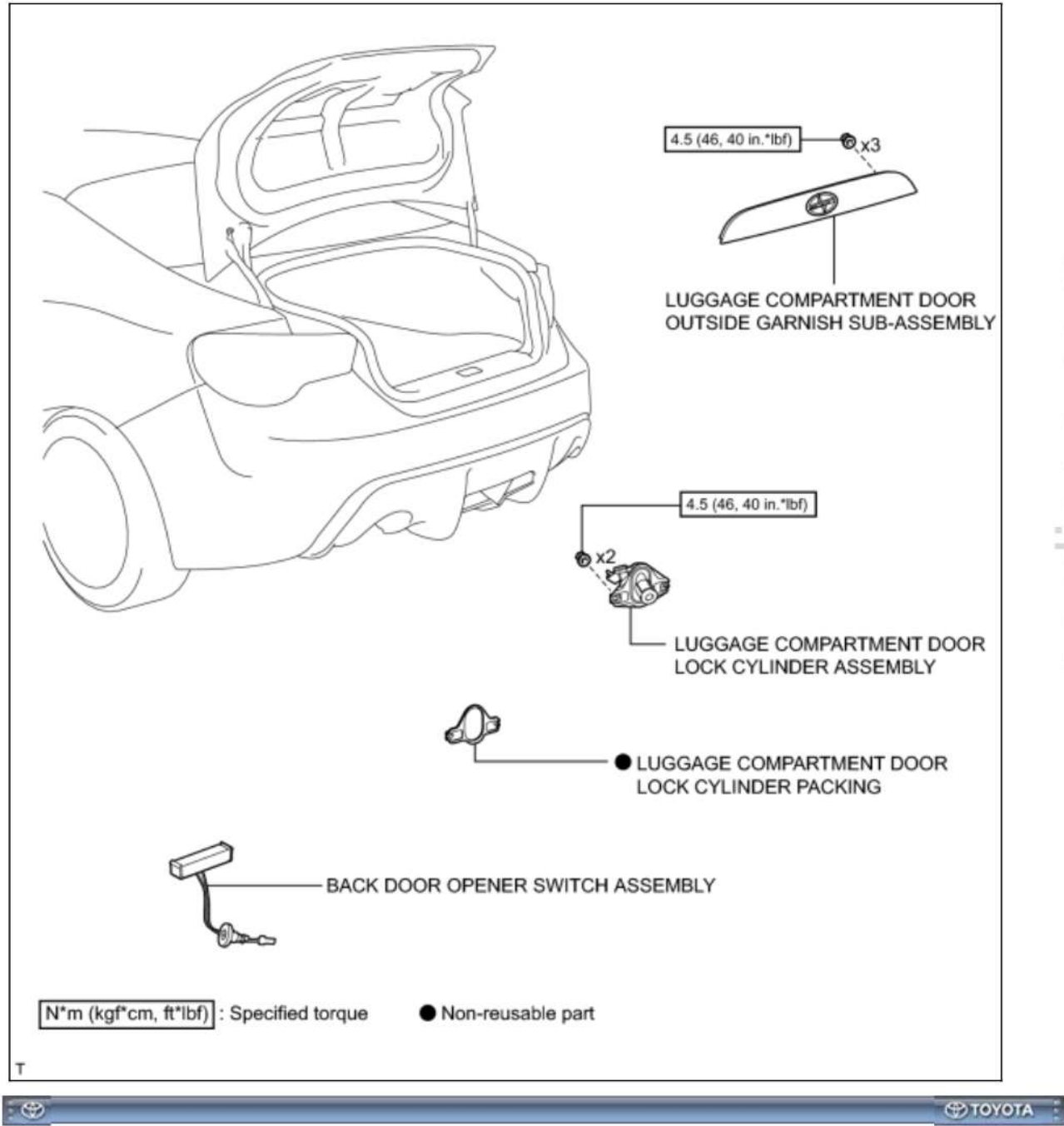


(a) Disengage the 2 claws and remove the luggage door opening cancel switch assembly.

Last Modified: 3-27-2012	6.4 K	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001OIV04TX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER OUTER SWITCH: COMPONENTS (2013 FR-S)		

COMPONENTS

ILLUSTRATION



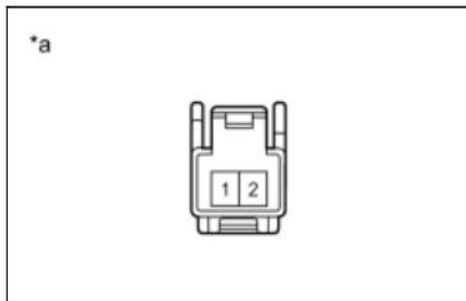
Last Modified: 3-27-2012	6.4 G	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001UM202DX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER OUTER SWITCH: INSPECTION (2013 FR-S)		

INSPECTION

1. INSPECT BACK DOOR OPENER SWITCH ASSEMBLY

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

Standard Resistance:



TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
1 - 2	Back door opener switch not pushed	10 k Ω or higher
1 - 2	Back door opener switch pushed	Below 1 Ω

Text in Illustration

*a	Component without harness connected (Back Door Opener Switch Assembly)
----	---

If the result is not specified, replace the back door opener switch assembly.



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001OIU06GX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER OUTER SWITCH: INSTALLATION (2013 FR-S)		

INSTALLATION

1. INSTALL BACK DOOR OPENER SWITCH ASSEMBLY

(a) Engage the 2 claws and install the back door opener switch assembly.

2. INSTALL LUGGAGE COMPARTMENT DOOR OUTSIDE GARNISH SUB-ASSEMBLY

INFO

3. INSTALL LUGGAGE COMPARTMENT DOOR LOCK CYLINDER PACKING

INFO

4. INSTALL LUGGAGE COMPARTMENT DOOR LOCK CYLINDER ASSEMBLY

INFO



cardiagn.com

Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001OIW06HX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER OUTER SWITCH: REMOVAL (2013 FR-S)		

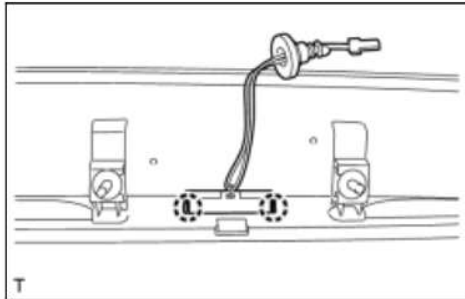
REMOVAL

1. REMOVE LUGGAGE COMPARTMENT DOOR LOCK CYLINDER ASSEMBLY [INFO](#)

2. REMOVE LUGGAGE COMPARTMENT DOOR LOCK CYLINDER PACKING [INFO](#)

3. REMOVE LUGGAGE COMPARTMENT DOOR OUTSIDE GARNISH SUB-ASSEMBLY [INFO](#)

4. REMOVE BACK DOOR OPENER SWITCH ASSEMBLY



(a) Disengage the 2 claws and remove the back door opener switch assembly.



Last Modified: 3-27-2012	6.4 U	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000VPK024X
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER SYSTEM: DATA LIST / ACTIVE TEST (2013 FR-S)		

DATA LIST / ACTIVE TEST

1. DATA LIST

HINT:

Using the Techstream to read the Data List allows the values or states of switches, sensors, actuators and other items to be read without removing any parts. This non-intrusive inspection can be very useful because intermittent conditions or signals may be discovered before parts or wiring is disturbed. Reading the Data List information early in troubleshooting is one way to save diagnostic time.

NOTICE:

In the table below, the values listed under "Normal Condition" are reference values. Do not depend solely on these reference values when deciding whether a part is faulty or not.

- Connect the Techstream to the DLC3.
- Turn the ignition switch to ON.
- Turn the Techstream on.
- Enter the following menus: Body Electrical / Main Body / Data List.
- Read the Data List according to the display on the Techstream.

Main Body

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Trunk/BDoor Open SW	Luggage door opening switch signal/ON or OFF	ON: Luggage door opening switch assembly pushed OFF: Luggage door opening switch assembly not pushed	-
Trunk Cancel Switch	Luggage door opening cancel switch signal/ON or OFF	ON: Luggage door opening cancel switch assembly pushed OFF: Luggage door opening cancel switch assembly not pushed	-

2. ACTIVE TEST

HINT:

Using the Techstream to perform Active Tests allows relays, VSVs, actuators and other items to be operated without removing any parts. This non-intrusive functional inspection can be very useful because intermittent operation may be discovered before parts or wiring is disturbed. Performing Active Tests early in troubleshooting is one way to save diagnostic time. Data List information can be displayed while performing Active Tests.

- Connect the Techstream to the DLC3.
- Turn the ignition switch to ON.
- Turn the Techstream on.
- Enter the following menus: Body Electrical / Main Body / Active Test.

(e) Perform the Active Test according to the display on the Techstream.

Main Body

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Trunk and Back-Door Open	Operate luggage compartment door lock motor	ON/OFF	This test will open the trunk



Last Modified: 3-27-2012	6.4 D	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001TFV016X
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER SYSTEM: HOW TO PROCEED WITH TROUBLESHOOTING (2013 FR-S)		

HOW TO PROCEED WITH TROUBLESHOOTING

HINT:

- Use the following procedure to troubleshoot the luggage compartment door opener system.
- *: Use the Techstream.

1. VEHICLE BROUGHT TO WORKSHOP

NEXT



2. 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



3. PROBLEM SYMPTOMS TABLE

(a) Refer to Problem Symptoms Table [INFO](#) .

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



4.	OVERALL ANALYSIS AND TROUBLESHOOTING*
-----------	--

- (a) Data List / Active Test INFO
- (b) Operation Check INFO
- (c) Terminals of ECU INFO

NEXT
▼

5.	REPAIR OR REPLACE
-----------	--------------------------

NEXT
▼

6.	CONFIRMATION TEST
-----------	--------------------------

NEXT ► **END**



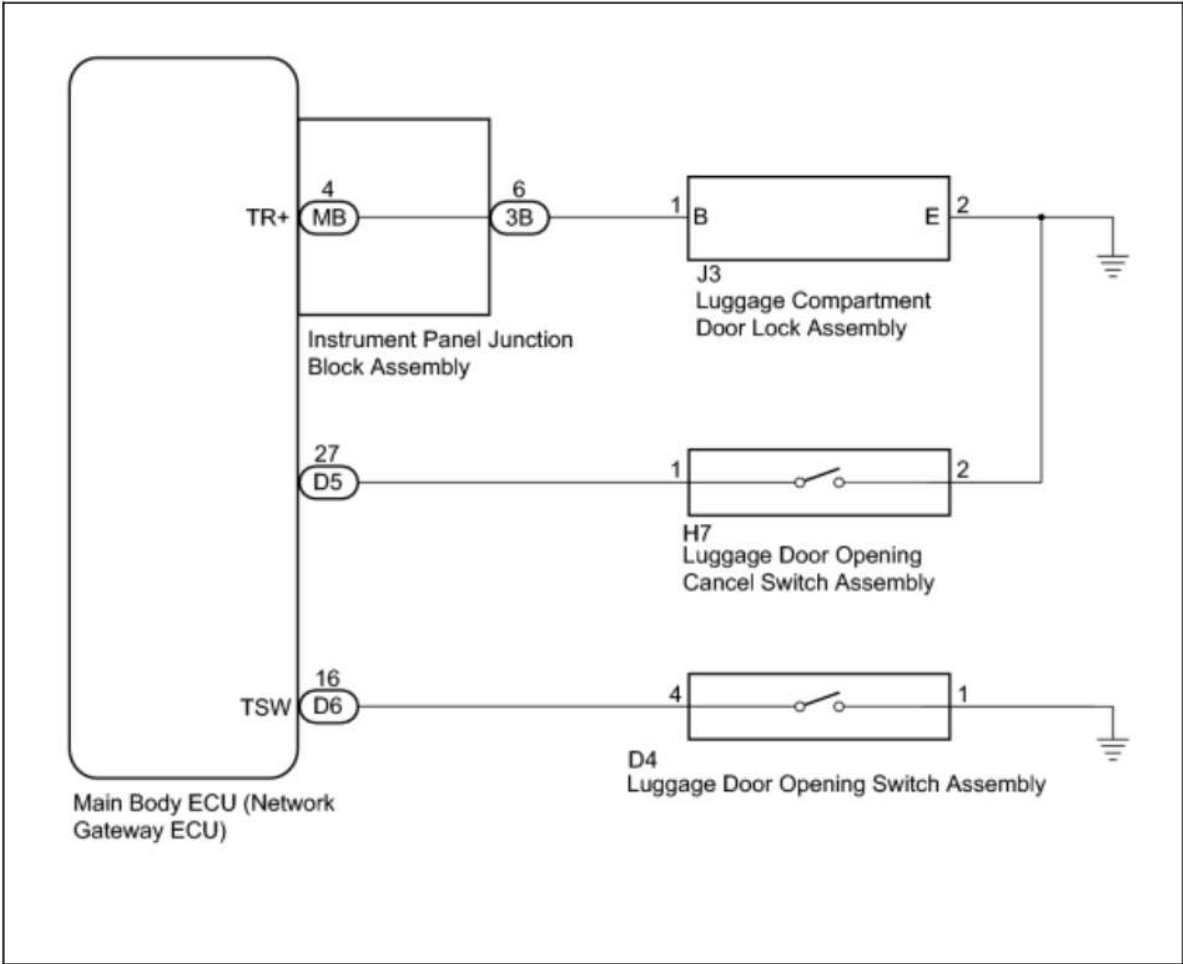
Last Modified: 3-27-2012	6.4 J	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001SHK019X
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER SYSTEM: Luggage Compartment Door Opener does not Operate (2013 FR-S)		

Luggage Compartment Door Opener does not Operate

DESCRIPTION

When the main body ECU (network gateway ECU) has received the ON signal from the luggage opening cancel switch assembly and the ON signal from the luggage door opening switch assembly, the main body ECU (network gateway ECU) activates the luggage compartment door lock motor.

WIRING DIAGRAM



INSPECTION PROCEDURE

PROCEDURE

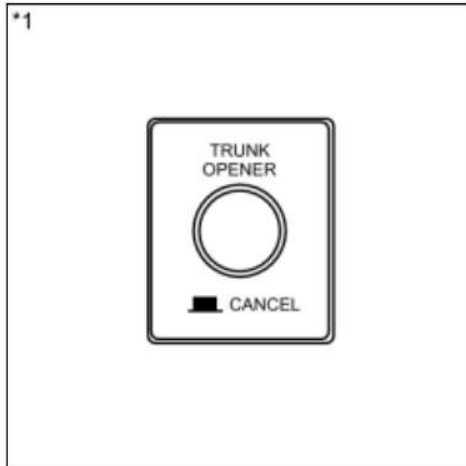
CHECK LUGGAGE COMPARTMENT DOOR OPENER SYSTEM (LUGGAGE DOOR
--

1. OPENING CANCEL SWITCH ASSEMBLY)

- (a) When the luggage door opening cancel switch assembly is on, push the luggage door opening switch assembly and check that the luggage compartment door opens.

OK:

Luggage compartment door opener system operates normally.



- (b) When the luggage door opening cancel switch assembly is off, push the luggage door opening switch assembly and check that the luggage compartment door does not open.

Text in Illustration

*1 Luggage Door Opening Cancel Switch Assembly

OK:

Luggage compartment door opener system does not operate.

NG ► **PERFORM ACTIVE TEST USING TECHSTREAM**

OK ► **END**

2. PERFORM ACTIVE TEST USING TECHSTREAM

- (a) Connect the Techstream to the DLC3.
 (b) Turn the ignition switch to ON.
 (c) Turn the Techstream on.
 (d) Enter the following menus: Body Electrical / Main Body / Active Test.
 (e) Perform the Active Test according to the display on the Techstream.

Main Body

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Trunk and Back-Door Open	Operate luggage compartment door lock motor	ON/OFF	This test will open the trunk

OK:

Luggage compartment door lock motor operates.

INSPECT LUGGAGE COMPARTMENT DOOR

NG  **LOCK ASSEMBLY**

OK



3. READ VALUE USING TECHSTREAM

- (a) Connect the Techstream to the DLC3.
- (b) Turn the ignition switch to ON.
- (c) Turn the Techstream on.
- (d) Enter the following menus: Body Electrical / Main Body / Data List.
- (e) Read the Data List according to the display on the Techstream.

Main Body

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Trunk/BDoor Open SW	Luggage door opening switch signal/ON or OFF	ON: Luggage door opening switch assembly is pushed OFF: Luggage door opening switch assembly is not pushed	-
Trunk Main SW	Luggage door opening cancel switch signal/ON or OFF	ON: Luggage door opening cancel switch assembly is pushed OFF: Luggage door opening cancel switch assembly is not pushed	-

OK:

On the Techstream screen, each item changes between ON and OFF according to the above.

Result:

RESULT	PROCEED TO
NG (Luggage door opening switch assembly is abnormal)	A
NG (Luggage door opening cancel switch assembly is abnormal)	B
OK	C

B  **INSPECT LUGGAGE DOOR OPENING CANCEL SWITCH ASSEMBLY**

C  **INSPECT LUGGAGE COMPARTMENT DOOR LOCK ASSEMBLY**

A
4. INSPECT LUGGAGE DOOR OPENING SWITCH ASSEMBLY

- (a) Remove the luggage door opening switch assembly  .
- (b) Inspect the luggage door opening switch assembly  .

B  **REPLACE LUGGAGE DOOR OPENING SWITCH ASSEMBLY**
A
5. CHECK HARNESS AND CONNECTOR (LUGGAGE DOOR OPENING SWITCH ASSEMBLY - MAIN BODY ECU (NETWORK GATEWAY ECU))

- (a) Disconnect the D6 main body ECU (network gateway ECU) connector and the D4 luggage door opening switch assembly.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance (Check for Open):

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D6-16 (TSW) - D4-4	Always	Below 1 Ω

Standard Resistance (Check for Short):

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D6-16 (TSW) - Body ground	Always	10 k Ω or higher
D4-1 - Body ground	Always	Below 1 Ω

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**
OK  **REPLACE MAIN BODY ECU (NETWORK GATEWAY ECU)**
6. INSPECT LUGGAGE DOOR OPENING CANCEL SWITCH ASSEMBLY

- (a) Remove the luggage door opening cancel switch assembly  .
- (b) Inspect the luggage door opening cancel switch assembly  .

NG  **REPLACE LUGGAGE DOOR OPENING CANCEL SWITCH ASSEMBLY**

OK



7.

CHECK HARNESS AND CONNECTOR (LUGGAGE DOOR OPENING CANCEL SWITCH ASSEMBLY - MAIN BODY ECU (NETWORK GATEWAY ECU))

- (a) Disconnect the D5 main body ECU (network gateway ECU) connector and the H7 luggage door opening cancel switch assembly.
- (b) Measure the resistance according to the value(s) in the table below.
Standard Resistance (Check for Open):

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D5-27 - H7-1	Always	Below 1 Ω

Standard Resistance (Check for Short):

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D5-27 - Body ground	Always	10 k Ω or higher
H7-2 - Body ground	Always	Below 1 Ω

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK  **REPLACE MAIN BODY ECU (NETWORK GATEWAY ECU)**

8.

INSPECT LUGGAGE COMPARTMENT DOOR LOCK ASSEMBLY

- (a) Remove the luggage compartment door lock assembly  .
- (b) Inspect the luggage compartment door lock assembly  .

NG  **REPLACE LUGGAGE COMPARTMENT DOOR LOCK ASSEMBLY**

OK**9.**
CHECK HARNESS AND CONNECTOR (LUGGAGE COMPARTMENT DOOR LOCK ASSEMBLY - MAIN BODY ECU (NETWORK GATEWAY ECU))

(a) Disconnect the 3B instrument panel junction block assembly connector and the J3 luggage compartment door lock assembly.

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

Standard Resistance (Check for Open):

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
J3-1 (B) - 3B-6	Always	Below 1 Ω

Standard Resistance (Check for Short):

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
J3-1 (B) - Body ground	Always	10 k Ω or higher
J3-2 (E) - Body ground	Always	Below 1 Ω

NG **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK**10.**
REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY

(a) Temporarily replace the instrument panel junction block assembly with a new or normally functioning one .

(b) Check the door closer operation.

OK:

Door closer operation normal.

NG **REPLACE MAIN BODY ECU (NETWORK GATEWAY ECU)**

OK **END**



cardiagn.com

Last Modified: 3-27-2012	6.4 D	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM0000025VO02EX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER SYSTEM: OPERATION CHECK (2013 FR-S)		

OPERATION CHECK

1. CHECK LUGGAGE COMPARTMENT DOOR OPENER OPERATION

NOTICE:

- To prevent inadvertent operation of the luggage compartment door, the opener does not operate while driving.
- When the theft deterrent system is in the armed state or alarm sounding state, the luggage compartment door opener does not operate.*

*: w/ Theft Deterrent System

- (a) When the luggage door opening switch is on, push the luggage door opening switch assembly and check that the luggage compartment door opens.
- (b) When the luggage door opening switch assembly is off, push the luggage door opening switch assembly and check that the luggage compartment door does not open.
- (c) While the luggage door opening cancel switch is on, check that the luggage compartment door does not open when the luggage door opening switch is pressed.

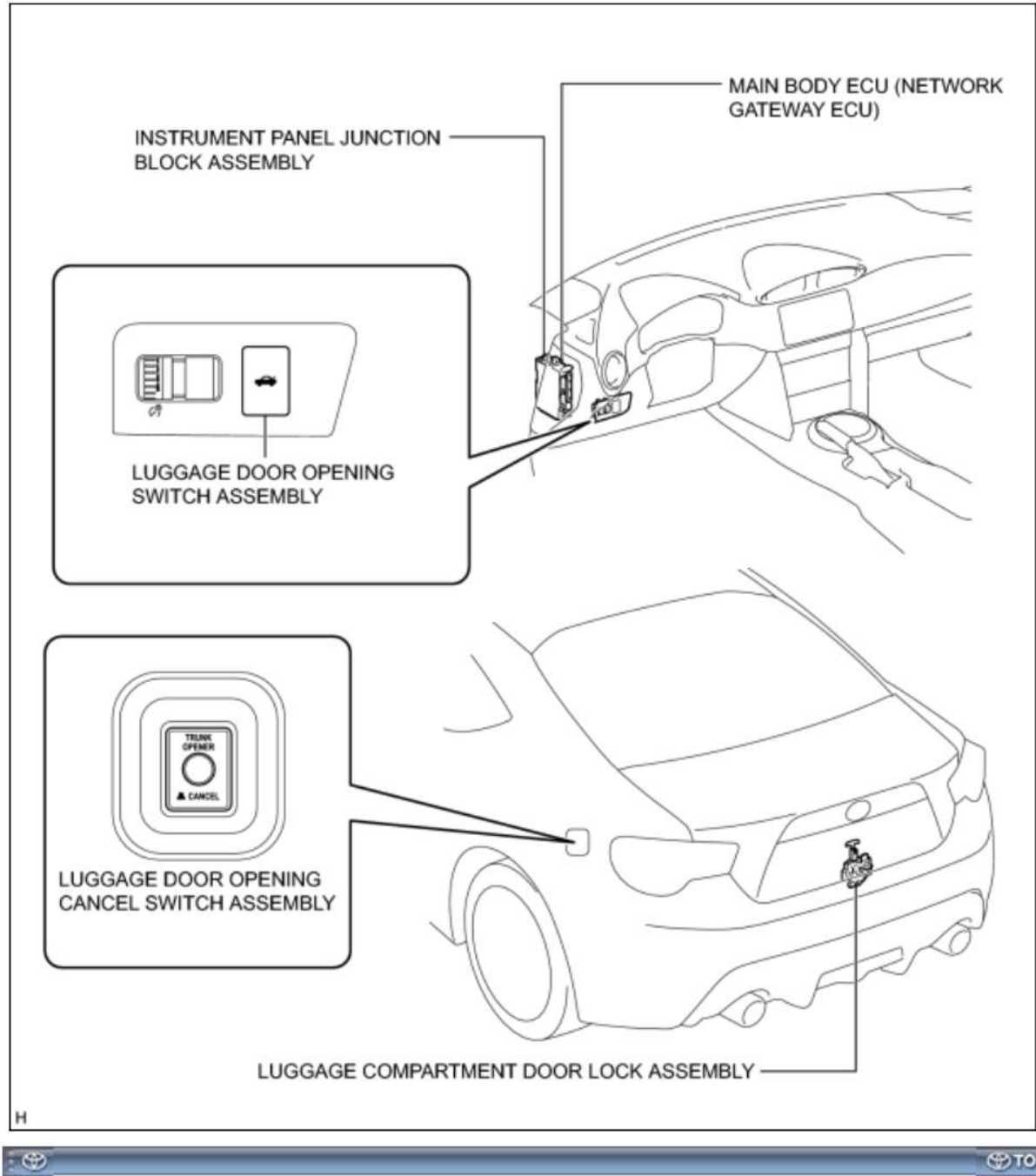


cardiagn.com

Last Modified: 3-27-2012	6.4 R	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001WLL00QX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER SYSTEM: PARTS LOCATION (2013 FR-S)		

PARTS LOCATION

ILLUSTRATION



Last Modified: 3-27-2012	6.4 T	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001SHF015X
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER SYSTEM: PROBLEM SYMPTOMS TABLE (2013 FR-S)		

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.
- Inspect the fuses and relays related to this system before inspecting the suspected areas below.

Luggage Compartment Door Opener System

SYMPTOM	SUSPECTED AREA	SEE PAGE
Luggage compartment door opener does not operate	Luggage Compartment Door Lock Assembly	INFO
	Luggage door opening switch assembly	INFO
	Luggage door opening cancel switch assembly	INFO
	Main body ECU (network gateway ECU)	-
	Wire harness or connector	-



TOYOTA

Last Modified: 3-27-2012	6.4 D	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001SHG011X
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER SYSTEM: SYSTEM DESCRIPTION (2013 FR-S)		

SYSTEM DESCRIPTION

1. LUGGAGE COMPARTMENT DOOR OPENER SYSTEM DESCRIPTION

- (a) The luggage compartment door opener is electrically controlled.
- (b) The main body ECU (network gateway ECU) activates the luggage compartment door lock motor when the ON signal from the luggage door opening switch assembly is received.
- (c) Close the luggage compartment door.
- (d) The luggage compartment door opener system operates as follows:

OPENING CANCEL SWITCH CONDITION	OPENING SWITCH CONDITION	LUGGAGE COMPARTMENT DOOR OPENER SYSTEM CONDITION
ON (Pushed)	Pushed (ON)	Does not operate
ON (Pushed)	Not pushed (OFF)	Does not operate
OFF (Not pushed)	Pushed (ON)	Operates
OFF (Not pushed)	Not pushed (OFF)	Does not operate

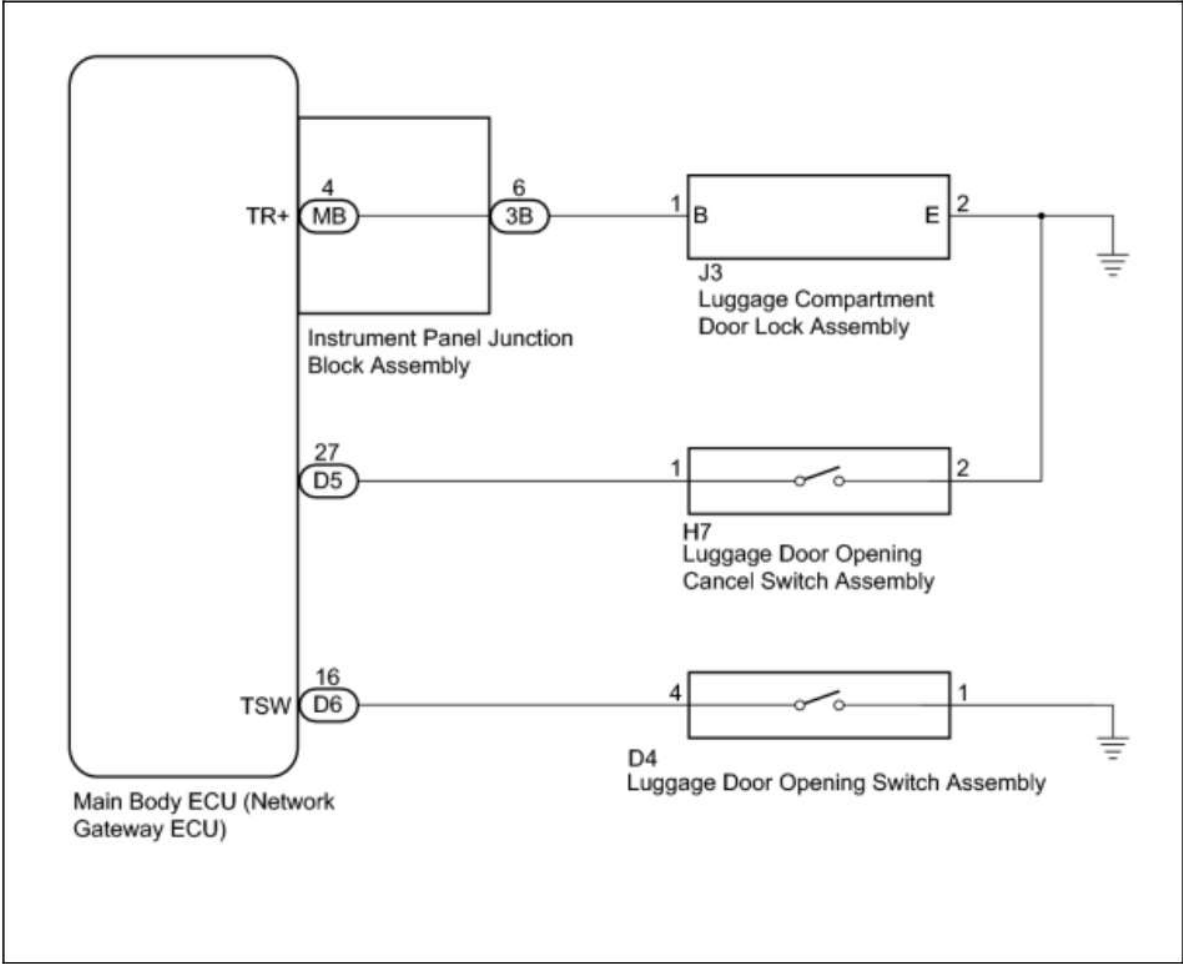
2. FUNCTION OF MAIN COMPONENTS

COMPONENT	FUNCTION
Luggage Compartment Door Lock Cylinder Assembly	Controlled by main body ECU (network gateway ECU) and unlatches luggage compartment door lock.
Luggage Door Opening Switch Assembly	When luggage door opening switch is pushed, opening switch ON signal is sent to main body ECU (network gateway ECU).
Luggage Door Opening Cancel Switch Assembly	When luggage door opening cancel switch is pushed, opening cancel switch ON signal is sent to main body ECU (network gateway ECU).
Main Body ECU (Network Gateway ECU)	When luggage door opening switch is pushed, main body ECU (network gateway ECU) receives opening switch ON signal. When luggage door opening cancel switch is pushed, main body ECU (network gateway ECU) receives opening cancel switch ON signal.



Last Modified: 3-27-2012	6.4 U	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM00000418F00AX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER SYSTEM: SYSTEM DIAGRAM (2013 FR-S)		

SYSTEM DIAGRAM



Communication Table

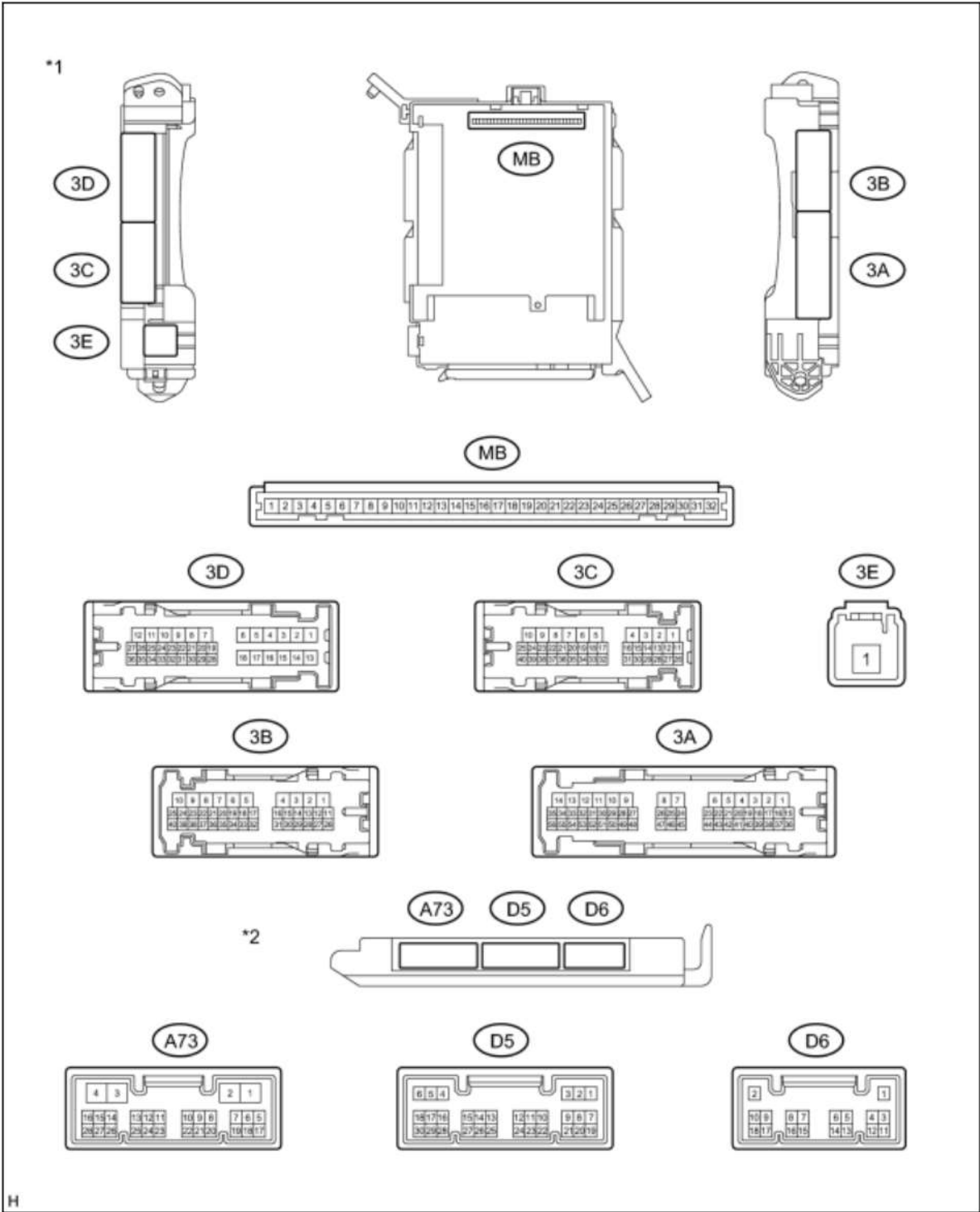
SENDER	RECEIVER	SIGNAL	LINE
Luggage Compartment Door Opening Switch	Main body ECU (Network gateway ECU)	Luggage compartment door opening switch signal	Local communication
Luggage Compartment Door Opener Cancel Switch	Main body ECU (Network gateway ECU)	Luggage compartment door opener cancel switch signal	Local communication



Last Modified: 3-27-2012	6.4 U	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001TFW011X
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR OPENER SYSTEM: TERMINALS OF ECU (2013 FR-S)		

TERMINALS OF ECU

1. CHECK MAIN BODY ECU (NETWORK GATEWAY ECU)



Text in Illustration

*1	Instrument Panel Junction Block Assembly	*2	Main Body ECU (Network Gateway ECU)
----	--	----	-------------------------------------

- (a) Remove the main body ECU (network gateway ECU) from the instrument panel junction block assembly.
- (b) Disconnect the D5 and D6 main body ECU (network gateway ECU) connectors.
- (c) Measure the resistance and voltage according to the value(s) in the table below.

TESTER CONNECTION	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
D5-27 - Body ground	G - Body ground	Luggage door opening cancel switch signal input	Luggage door opening cancel switch assembly off	10 k Ω or higher
			Luggage door opening cancel switch assembly on	Below 1 Ω
D6-16 (TSW) - Body ground	L - Body ground	Luggage door opening switch signal input	Luggage door opening switch assembly off	10 k Ω or higher
			Luggage door opening switch assembly on	Below 1 Ω

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

- (d) Reconnect the D5 and D6 main body ECU (network gateway ECU) connectors.
- (e) Install the main body ECU (network gateway ECU) to the instrument panel junction block assembly.
- (f) Measure the voltage according to the value(s) in the table below.

TESTER CONNECTION	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
D5-27 - Body ground	G - Body ground	Luggage compartment door lock motor drive output	Ignition switch ON Luggage door opening cancel switch on	Below 1 V
D6-16 (TSW) - Body ground	L - Body ground	Luggage compartment door lock motor drive output	Ignition switch ON Luggage door opening switch on	Below 1 V
3B-6 - Body ground	G - Body ground	Luggage compartment door lock motor drive output	Ignition switch ON Luggage door opening switch on	11 to 14 V

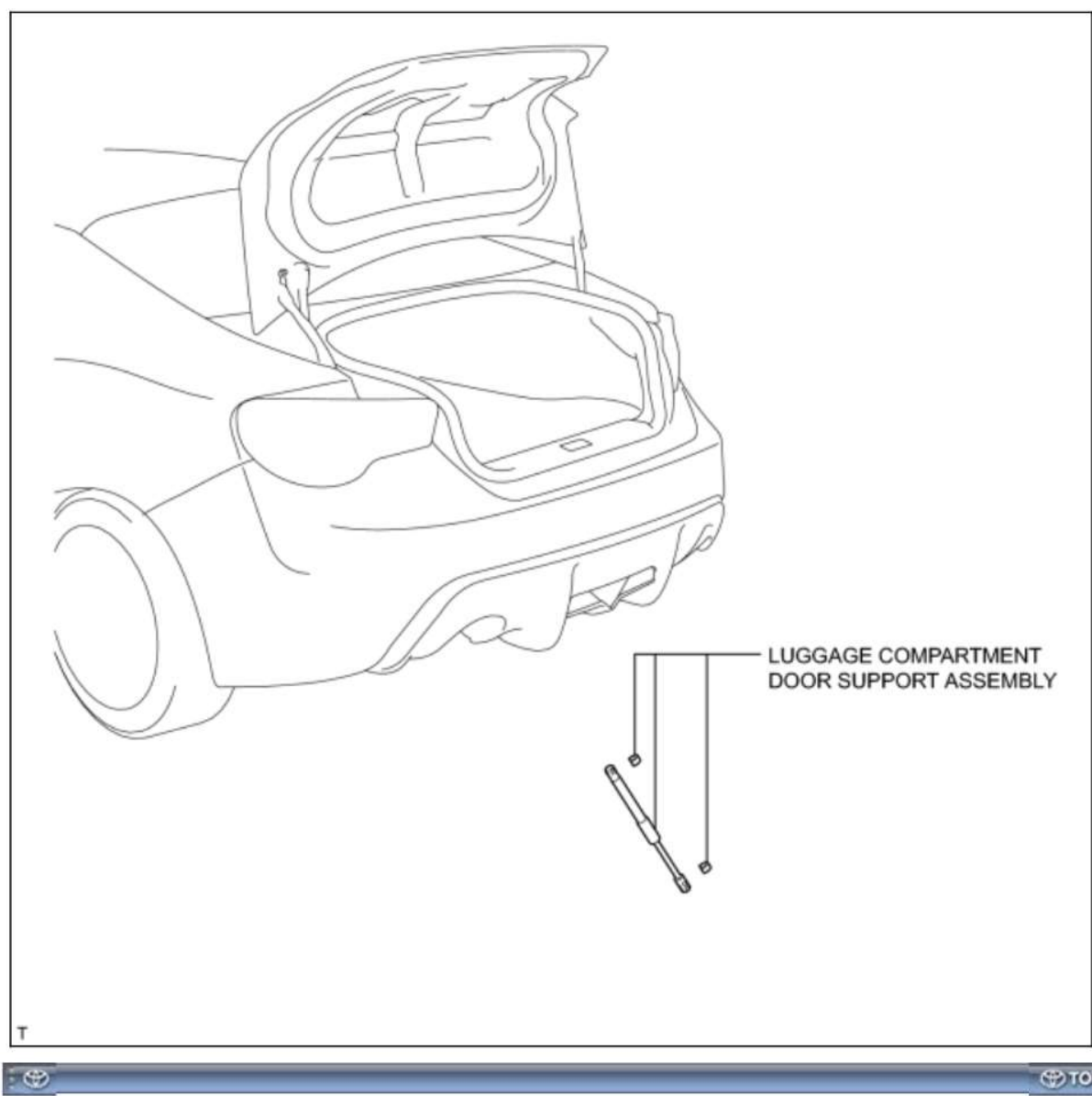
If the result is not as specified, the main body ECU (network gateway ECU) or instrument panel junction block assembly may have a malfunction.



Last Modified: 3-27-2012	6.4 K	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM0000010WL00QX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR SUPPORT: COMPONENTS (2013 FR-S)		

COMPONENTS

ILLUSTRATION



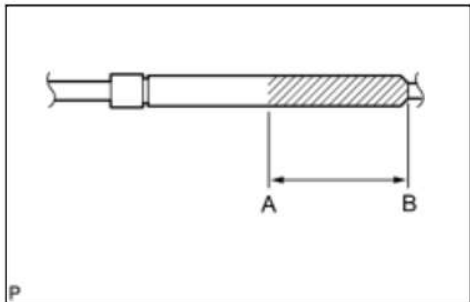
cardiagn.com

Last Modified: 3-27-2012	6.4 N	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000XCH016X
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR SUPPORT: DISPOSAL (2013 FR-S)		

DISPOSAL

1. DISPOSE OF LUGGAGE COMPARTMENT DOOR SUPPORT ASSEMBLY

(a) Secure the luggage compartment door support assembly horizontally in a vise with the piston rod pulled out.



(b) Wear safety glasses. Use a metal saw to slowly cut a groove between A and B, as shown in the illustration, to release the gas.

AREA	MEASUREMENT
A-B	80 mm (3.15 in.)

CAUTION:
Although the gas inside the luggage compartment door support assembly is colorless, odorless and harmless, there is a possibility that metal debris could scatter. Therefore, cover it with a piece of cloth or other material.

Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM0000010WK00UX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR SUPPORT: INSTALLATION (2013 FR-S)		

INSTALLATION

HINT:

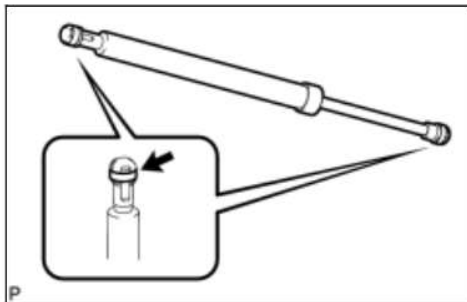
- Use the same procedure for both the RH and LH sides.
- The following procedure is for the LH side.

1. INSTALL LUGGAGE COMPARTMENT DOOR SUPPORT ASSEMBLY

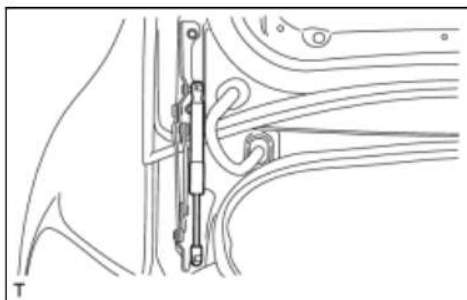
NOTICE:

- Avoid touching the piston rod as much as possible to prevent foreign matter from attaching to it. Be sure to hold the cylinder while servicing.
- Do not wear cotton gloves or other similar materials when handling the piston rod. Fibers may attach to the rod and result in gas leaks.
- In order to prevent the piston rod from deforming, do not apply any horizontal load to the door support.

(a) When reusing the luggage compartment door support assembly:



(1) Install the 2 stop rings to the luggage compartment door support assembly.



(b) Install the luggage compartment door support assembly.

NOTICE:

- Install the luggage compartment door support assembly while supporting the luggage compartment door by hand.
- Check that the luggage compartment door support assembly is engaged in the ball joint and that the luggage compartment door support assembly cannot be pulled out.

Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM0000010WM00VX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR SUPPORT: REMOVAL (2013 FR-S)		

REMOVAL

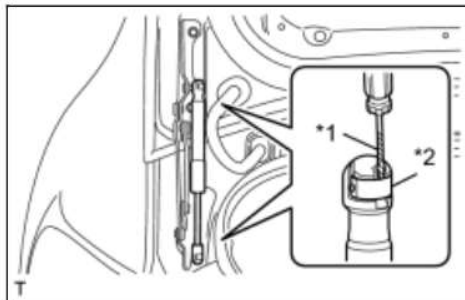
HINT:

- Use the same procedure for both the RH and LH sides.
- The following procedure is for the LH side.

1. REMOVE LUGGAGE COMPARTMENT DOOR SUPPORT ASSEMBLY

NOTICE:

- Avoid touching the piston rod as much as possible to prevent foreign matter from attaching to it. Be sure to hold the cylinder while servicing.
- Do not wear cotton gloves or other similar materials when handling the piston rod. Fibers may attach to the rod and result in gas leaks.
- In order to prevent the piston rod from deforming, do not apply any horizontal load to the door support.



(a) Using a screwdriver, remove the 2 stop rings along the groove.

Text in Illustration

*1	Protective Tape
*2	Stop Ring

HINT:

Tape the screwdriver tip before use.

(b) Release the ball joint and remove the luggage compartment door support.

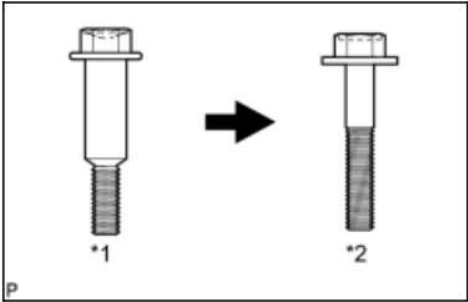
NOTICE:

Remove the luggage compartment door support while supporting the luggage compartment door by hand.



Last Modified: 3-27-2012	6.4 N	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000XBX03HX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR: ADJUSTMENT (2013 FR-S)		

ADJUSTMENT



HINT:

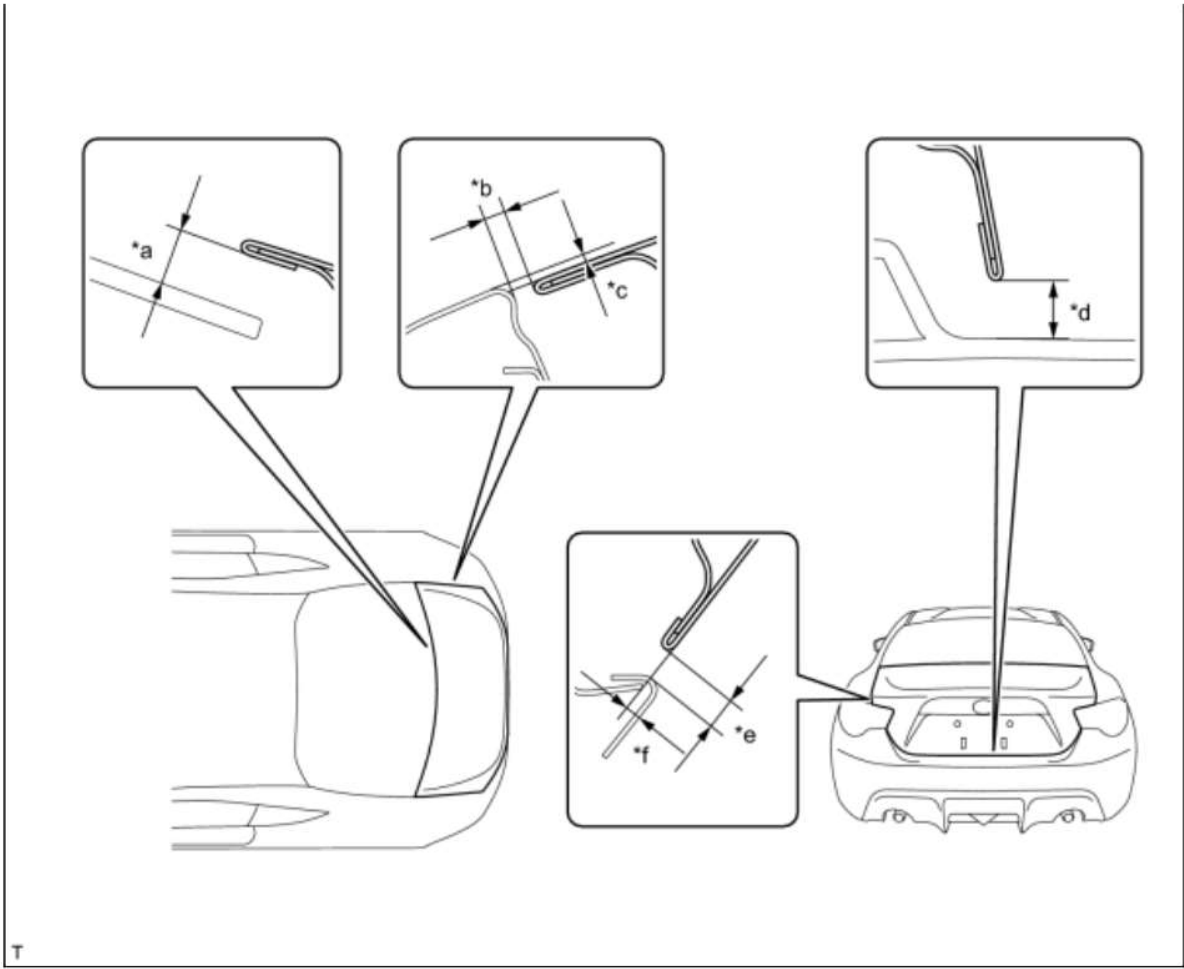
- Centering bolts are used to mount the door hinge to the vehicle body and door. The door cannot be adjusted with the centering bolts on. Substitute the centering bolts with standard bolts when making adjustments.
- A bolt without a torque specification is shown in the standard bolt chart [INFO](#) .

Text in Illustration

*1	Centering Bolt
*2	Standard Bolt

1. INSPECT LUGGAGE COMPARTMENT DOOR PANEL SUB-ASSEMBLY

- (a) Check that the clearance measurements of areas *a to *f are within each standard range.



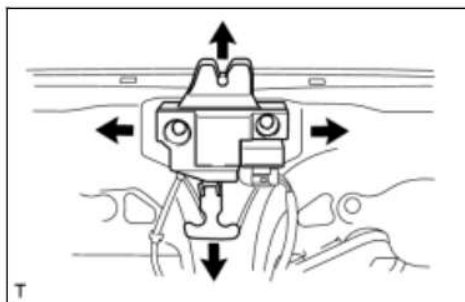
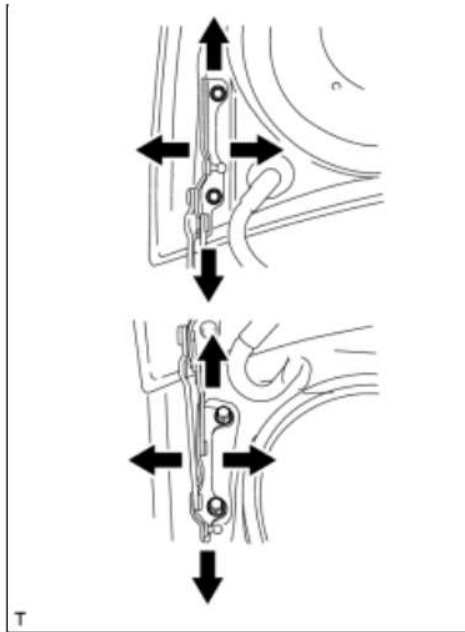
Standard Clearance

AREA	MEASUREMENT	AREA	MEASUREMENT
*a	8.2 mm (0.3228 in.)	*b	2.0 to 5.0 mm (0.0787 to 0.1969 in.)
*c	-2.0 to 1.0 mm (-0.0787 to 0.0394 in.)	*d	5.8 to 10.2 mm (0.2283 to 0.4016 in.)
*e	4.3 to 7.3 mm (0.1693 to 0.2874 in.)	*f	-2.0 to 1.0 mm (-0.0787 to 0.0394 in.)

2. ADJUST LUGGAGE COMPARTMENT DOOR PANEL SUB-ASSEMBLY

(a) Horizontally and vertically adjust the door by loosening the door side hinge bolts.

Torque: 18 N·m (184 kgf·cm, 13ft·lbf)



(b) When adjusting the rear edge of the doors left or right, or adjusting the luggage compartment door lock, loosen the bolts before making adjustments.

(c) After the adjustment, tighten the 2 bolts on the luggage compartment door lock.

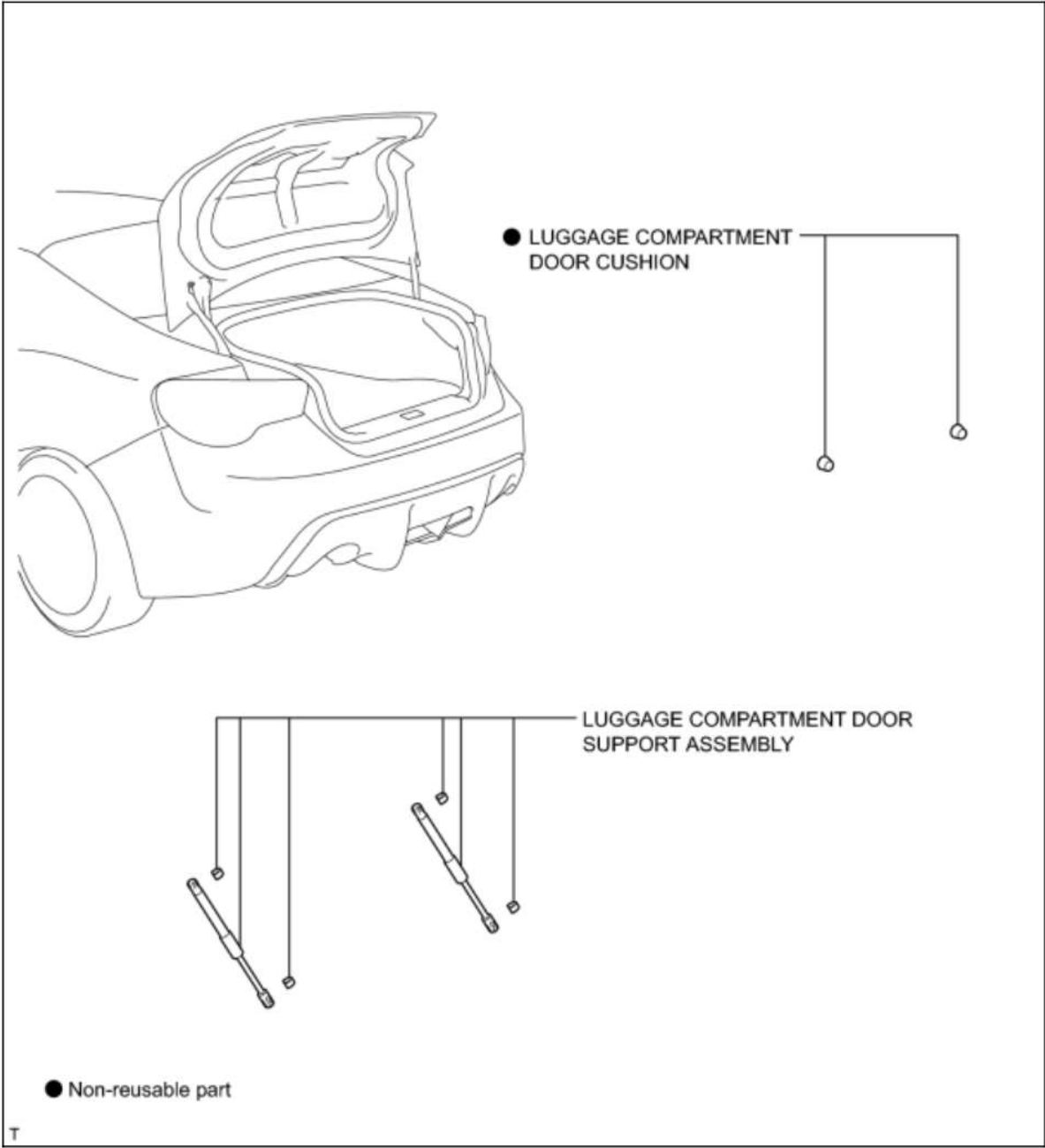
Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)



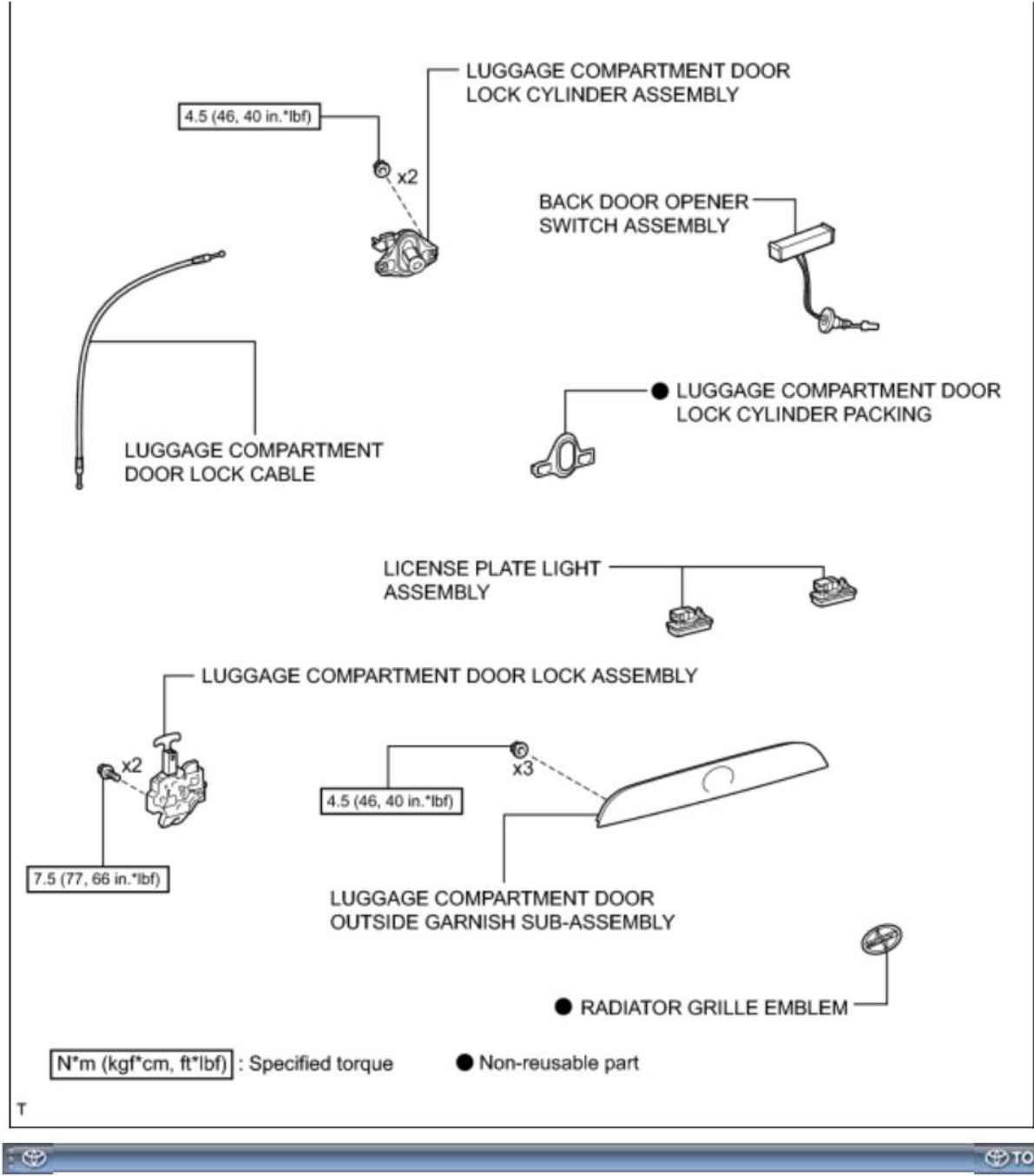
Last Modified: 3-27-2012	6.4 K	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000XBZ052X
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR: COMPONENTS (2013 FR-S)		

COMPONENTS

ILLUSTRATION



ILLUSTRATION

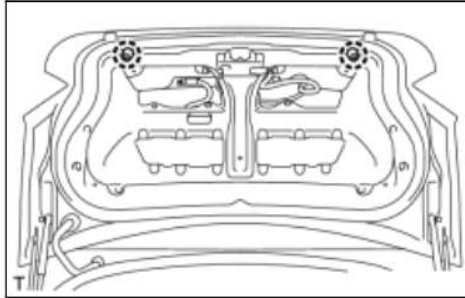


cardiagn.com

Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001OIM058X
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR: DISASSEMBLY (2013 FR-S)		

DISASSEMBLY

1. REMOVE LUGGAGE COMPARTMENT DOOR CUSHION



(a) Disengage the 2 claws and remove the 2 luggage compartment door cushions.

2. REMOVE LUGGAGE COMPARTMENT DOOR LOCK CYLINDER ASSEMBLY [INFO](#)

3. REMOVE LUGGAGE COMPARTMENT DOOR LOCK CYLINDER PACKING [INFO](#)

4. REMOVE LUGGAGE COMPARTMENT DOOR LOCK ASSEMBLY [INFO](#)

5. REMOVE LUGGAGE COMPARTMENT DOOR LOCK CABLE [INFO](#)

6. REMOVE LUGGAGE COMPARTMENT DOOR OUTSIDE GARNISH SUB-ASSEMBLY [INFO](#)

7. REMOVE BACK DOOR OPENER SWITCH ASSEMBLY [INFO](#)

8. REMOVE RADIATOR GRILLE EMBLEM (for Rear Side) [INFO](#)

9. REMOVE LICENSE PLATE LIGHT ASSEMBLY [INFO](#)

10. REMOVE LUGGAGE COMPARTMENT DOOR SUPPORT ASSEMBLY (for LH Side) [INFO](#)

11. REMOVE LUGGAGE COMPARTMENT DOOR SUPPORT ASSEMBLY (for RH Side)

HINT:

Use the same procedure as for the LH side.



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001OIN05AX
Title: DOOR / HATCH: LUGGAGE COMPARTMENT DOOR: REASSEMBLY (2013 FR-S)		

REASSEMBLY

1. INSTALL LUGGAGE COMPARTMENT DOOR SUPPORT ASSEMBLY (for LH Side) [INFO](#)

2. INSTALL LUGGAGE COMPARTMENT DOOR SUPPORT ASSEMBLY (for RH Side)

HINT:

Use the same procedure as for the LH side.

3. INSTALL LICENSE PLATE LIGHT ASSEMBLY [INFO](#)

4. INSTALL RADIATOR GRILLE EMBLEM (for Rear Side) [INFO](#)

5. INSTALL BACK DOOR OPENER SWITCH ASSEMBLY [INFO](#)

6. INSTALL LUGGAGE COMPARTMENT DOOR OUTSIDE GARNISH SUB-ASSEMBLY [INFO](#)

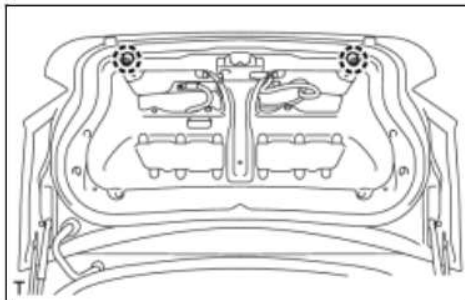
7. INSTALL LUGGAGE COMPARTMENT DOOR LOCK CABLE [INFO](#)

8. INSTALL LUGGAGE COMPARTMENT DOOR LOCK ASSEMBLY [INFO](#)

9. INSTALL LUGGAGE COMPARTMENT DOOR LOCK CYLINDER PACKING [INFO](#)

10. INSTALL LUGGAGE COMPARTMENT DOOR LOCK CYLINDER ASSEMBLY [INFO](#)

11. INSTALL LUGGAGE COMPARTMENT DOOR CUSHION



(a) Engage the 2 claws and install 2 new luggage compartment door cushions.



TOYOTA