Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000002AJO004X
Title: DOOR / HATCH: BACK DOOR: DISASSEMBLY (2010 4Runner)		

DISASSEMBLY

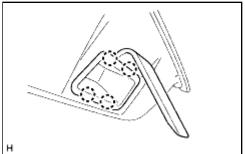
1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



2. REMOVE DOOR PULL HANDLE

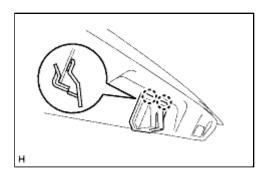


(a) Using moulding remover D, detach the 4 claws and remove the back door pull handle.

HINT:

Use the same procedure for all back door pull handles.

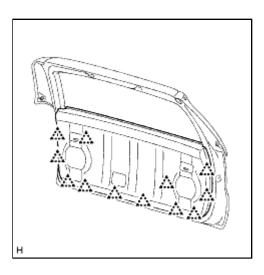
3. REMOVE BACK DOOR LOCK PROTECTOR SUB-ASSEMBLY



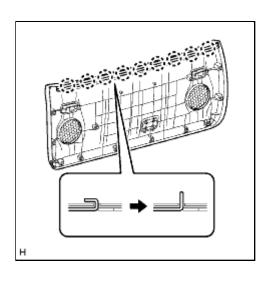
(a) Detach the 2 claws and remove the back door lock protector.

4. REMOVE BACK DOOR TRIM PANEL ASSEMBLY

(a) Detach the 12 clips by pulling the back door trim panel assembly.



5. REMOVE BACK DOOR GLASS WEATHERSTRIP

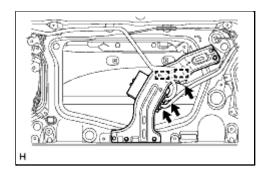


(a) Raise the 9 claws of the back door glass weatherstrip and remove the back door glass weatherstrip from the back door trim panel assembly 1 as shown in the illustration.

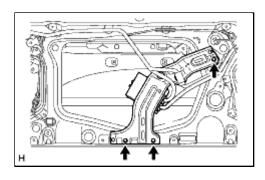
6. REMOVE REAR NO. 2 SPEAKER ASSEMBLY



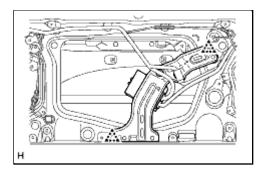
7. REMOVE MULTIPLEX NETWORK DOOR ECU



(a) Disconnect the 3 connectors to detach the 2 clamps.

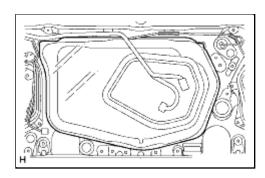


(b) Remove the 3 screws.



(c) Using a clip remover, detach the 2 clips and remove the multiplex network door ECU.

8. REMOVE NO. 2 BACK DOOR SERVICE HOLE COVER

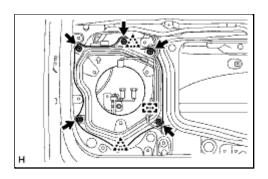


(a) Remove the back door service hole cover LH.

NOTICE:

Remove any remaining tape on the back door side.

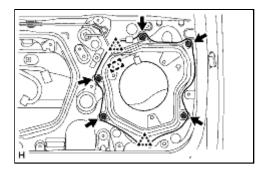
9. REMOVE BACK DOOR SERVICE HOLE COVER LH



(a) Detach the clamp and move the wire harness out of the way.

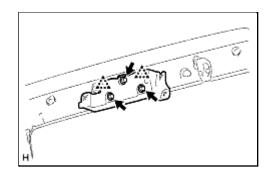
- (b) Remove the 5 screws.
- (c) Using a clip remover, detach the 2 clips and remove the service hole cover.

10. REMOVE BACK DOOR SERVICE HOLE COVER RH



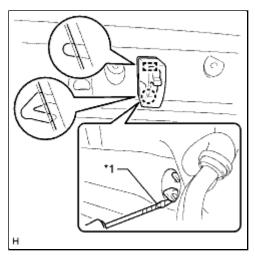
(a) Detach the clamp and move the wire harness out of the way.

- (b) Remove the 5 screws.
- (c) Using a clip remover, detach the 2 clips and remove the service hole cover.
- 11. REMOVE BACK DOOR OUTSIDE MOULDING LH
- 12. REMOVE BACK DOOR OUTSIDE MOULDING RH
- 13. REMOVE REAR NO. 1 SPOILER COVER
- 14. REMOVE REAR SPOILER SUB-ASSEMBLY
- 15. REMOVE REAR WIPER ARM
- 16. REMOVE REAR WIPER MOTOR AND BRACKET ASSEMBLY
- 17. REMOVE NO. 1 BACK WINDOW WIPER MOTOR BRACKET



(a) Remove the 3 bolts.

- (b) Using a clip remover, detach the 2 clips and remove the No. 1 back window wiper motor bracket.
- 18. REMOVE REAR WASHER NOZZLE
- 19. REMOVE LINEAR WIPER STEP RH

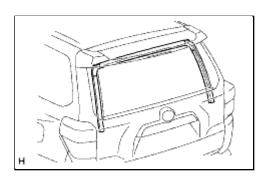


(a) Insert a screwdriver into the rear spoiler service hole, detach the claw and remove the wiper step.

Text in Illustration

*1 Protective Tape

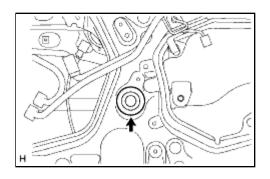
20. REMOVE BACK DOOR GLASS RUN



(a) Remove the back door glass run.

21. REMOVE BACK DOOR GLASS

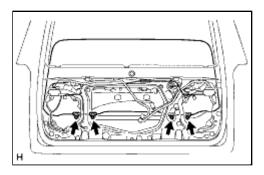
(a) Temporarily connect the multiplex network body ECU connectors.



(b) Remove the hole plug.

(c) Connect the cable to the negative (-) battery terminal.

(d) Move the back door glass until the 4 bolts can be seen through the service holes.



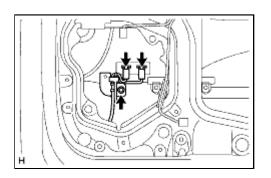
(e) Disconnect the cable from the negative (-) battery terminal.

NOTICE:

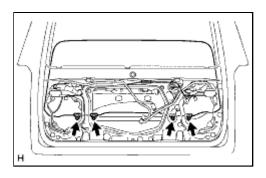
When disconnecting the cable, some systems need to be initialized after the cable is reconnected



(f) Disconnect the multiplex network body ECU connectors.

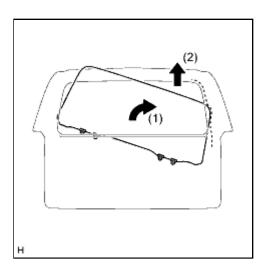


(g) Remove the bolt and disconnect the 2 defogger connectors.

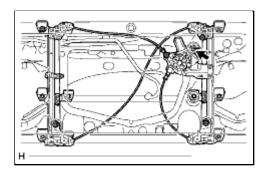


(h) Remove the 4 bolts.

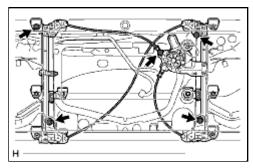
(i) Remove the door glass as shown in the illustration.



- (j) Disconnect the rear window connector.
- (k) Disconnect the multiplex network door ECU connector.
- 22. REMOVE OUTER BACK DOOR GLASS WEATHERSTRIP ASSEMBLY
- 23. REMOVE BACK DOOR LOCK ASSEMBLY
- 24. REMOVE BACK DOOR POWER WINDOW REGULATOR SUB-ASSEMBLY



(a) Disconnect the window regulator connector.

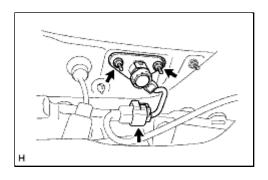


(b) Remove the 5 bolts, nut and window regulator.

HINT:

Remove the power window regulator through the service hole.

- 25. REMOVE POWER WINDOW REGULATOR MOTOR ASSEMBLY LH
- 26. REMOVE BACK DOOR LOCK CYLINDER (w/o Smart Key System)



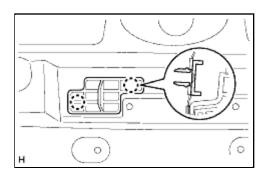
(a) Disconnect the connector.

(b) Remove the 2 nuts and lock cylinder.

HINT:

Remove the back door lock cylinder assembly through the service hole.

27. REMOVE NO. 2 BACK DOOR GARNISH RETAINER (w/o Rear View Monitor System)



(a) Detach the 2 claws and remove the No. 2 back door garnish retainer.

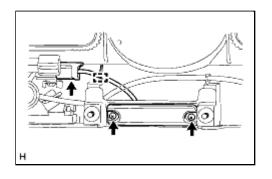
28. REMOVE BACK DOOR OUTSIDE GARNISH



29. REMOVE REAR TELEVISION CAMERA ASSEMBLY (w/ Rear View Monitor System)



30. REMOVE BACK DOOR OPENER SWITCH ASSEMBLY

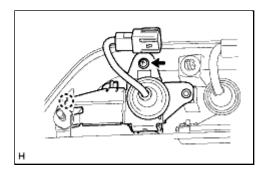


(a) Disconnect the connector.

- (b) Detach the guide.
- (c) Remove the 2 screws and back door opener switch assembly.

31. REMOVE LICENSE PLATE LIGHT ASSEMBLY NFO

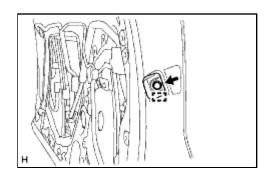
32. REMOVE BACK DOOR CONTROL SWITCH (w/ Smart Key System)



(a) Remove the screw.

(b) Detach the claw and remove the back door control switch.

33. REMOVE BACK DOOR LOWER STOPPER



(a) Remove the bolt.

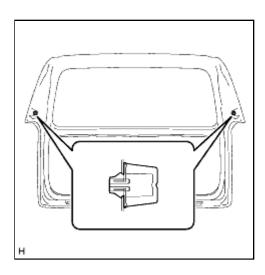
(b) Detach the guide and back door lower stopper.

HINT:

Use the same procedure as for the LH side.

34. REMOVE BACK DOOR PANEL CUSHION

(a) Remove the 2 back door panel cushions.



35. REMOVE BACK DOOR DAMPER STAY SUB-ASSEMBLY LH

36. REMOVE BACK DOOR DAMPER STAY SUB-ASSEMBLY RH

HINT:

Use the same procedure as for the LH side.

- 37. REMOVE BACK DOOR STAY BOLT (for LH Side)
- 38. REMOVE BACK DOOR STAY BOLT (for RH Side)

HINT:

Use the same procedure as for the LH side.

- 39. REMOVE BACK DOOR UPPER DAMPER STAY BRACKET LH
- 40. REMOVE BACK DOOR UPPER DAMPER STAY BRACKET RH

HINT:

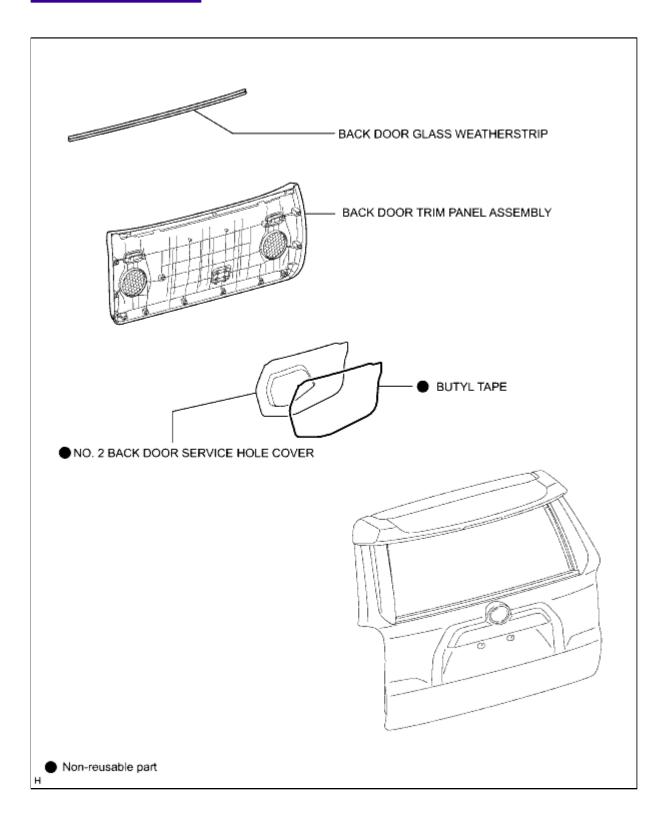
Use the same procedure as for the LH side.

(9)

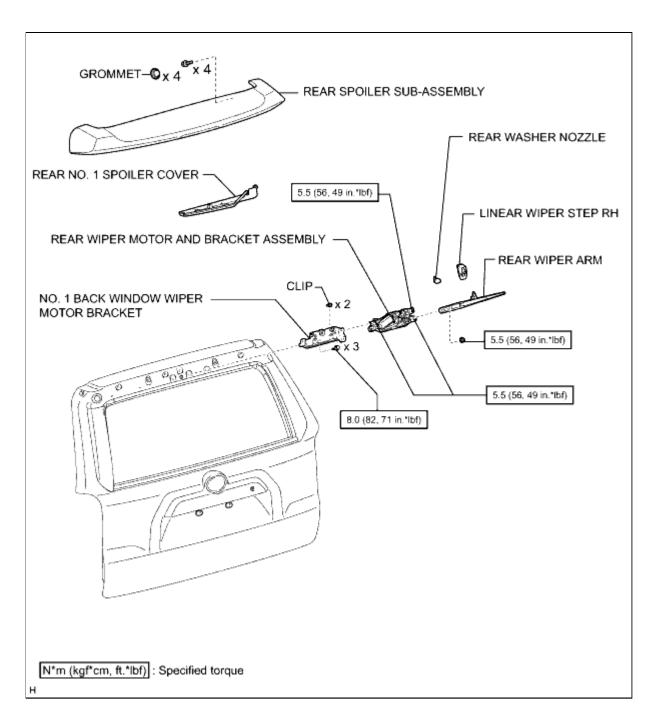


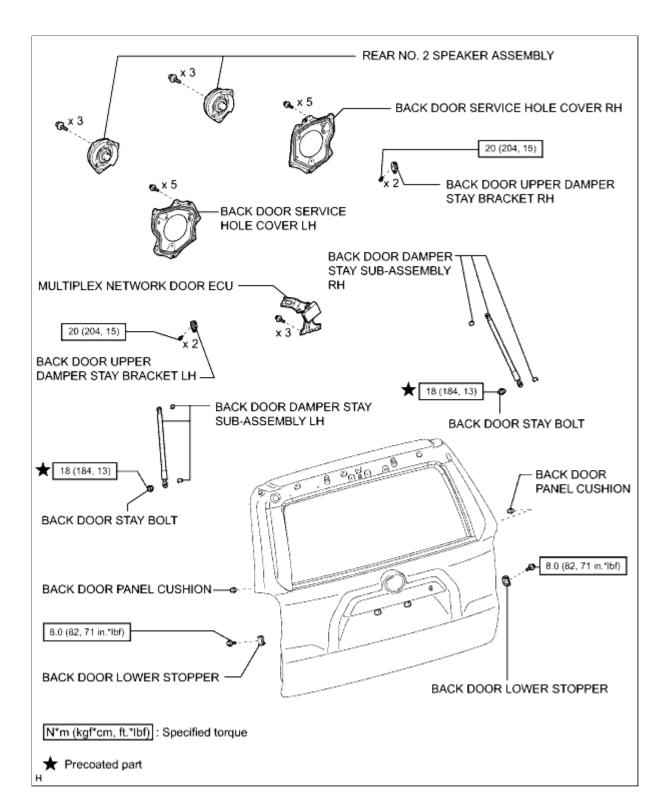
Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000002AJN004X
Title: DOOR / HATCH: BACK DOOR: COMPONENTS (2010 4Runner)		

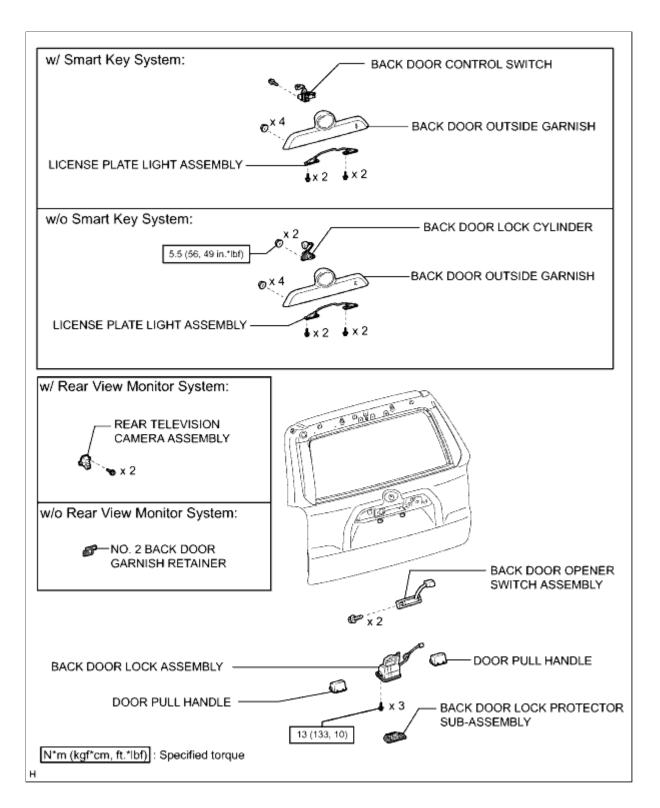
COMPONENTS

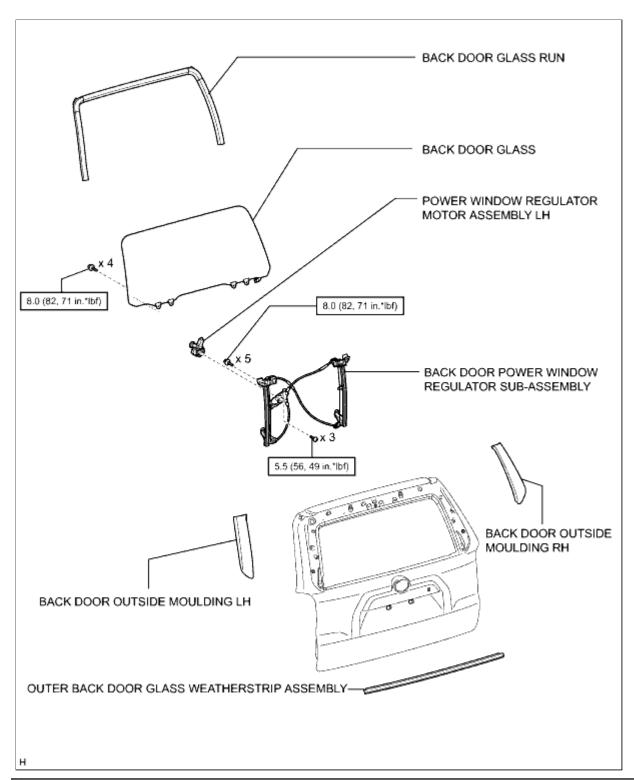


ILLUSTRATION









; ⊕ toyota :

Last Modified: 5-10-2010	6.4 A	6.4 A From: 200908	
Model Year: 2010	Model: 4Runner	Doc ID: RM000002AJP004X	
Title: DOOR / HATCH: BACK DOOR: REASSEMBLY (2010 4Runner)			

REASSEMBLY

- 1. INSTALL BACK DOOR UPPER DAMPER STAY BRACKET LH
- 2. INSTALL BACK DOOR UPPER DAMPER STAY BRACKET RH

HINT:

Use the same procedure described for the LH side.

- 3. INSTALL BACK DOOR STAY BOLT (for LH Side)
- 4. INSTALL BACK DOOR STAY BOLT (for RH Side)

HINT:

Use the same procedure described for the LH side.

- 5. INSTALL BACK DOOR DAMPER STAY SUB-ASSEMBLY LH
- 6. INSTALL BACK DOOR DAMPER STAY SUB-ASSEMBLY RH

HINT:

Use the same procedure described for the LH side.

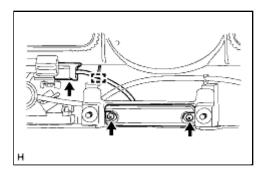
- 7. INSTALL BACK DOOR PANEL CUSHION
 - (a) Attach the claw to install the 2 back door panel cushions.
- 8. INSTALL BACK DOOR LOWER STOPPER
 - (a) Install the lower stopper cushion with the 2 bolts.

Torque: 8.0 N·m (82 kgf·cm, 71in·lbf)

HINT:

Use the same procedure described for the LH side.

- 9. INSTALL BACK DOOR CONTROL SWITCH (w/ Smart Key System)
 - (a) Attach the claw to install the back door control switch.
 - (b) Install the screw.
- 10. INSTALL LICENSE PLATE LIGHT ASSEMBLY
- 11. INSTALL BACK DOOR OPENER SWITCH ASSEMBLY



- (b) Attach the guide and connect the connector.
- 12. INSTALL REAR TELEVISION CAMERA ASSEMBLY (w/ Rear View Monitor System)



13. INSTALL BACK DOOR OUTSIDE GARNISH

14. INSTALL NO. 2 BACK DOOR GARNISH RETAINER (w/o Rear View Monitor System)

(a) Attach the 2 claws to install the No. 2 back door garnish retainer.

15. INSTALL BACK DOOR LOCK CYLINDER (w/o Smart Key System)

(a) Install the lock cylinder with the 2 nuts.

Torque: 5.5 N·m (56 kgf·cm, 49in·lbf)

(b) Connect the connector.

16. INSTALL POWER WINDOW REGULATOR MOTOR ASSEMBLY LH

17. INSTALL BACK DOOR POWER WINDOW REGULATOR SUB-ASSEMBLY

- (a) Apply MP grease to the sliding and rotating parts of the window regulator.
- (b) Install the power regulator sub-assembly with the 5 bolts.

Torque: 8.0 N·m (82 kgf·cm, 71in·lbf)

NOTICE:

Do not drop the back door power window regulator sub-assembly as it may be damaged.

(c) Connect the window regulator connector.

18. INSTALL BACK DOOR LOCK ASSEMBLY

19. INSTALL OUTER BACK DOOR GLASS WEATHERSTRIP ASSEMBLY

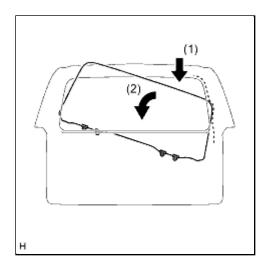
20. INSTALL BACK DOOR GLASS

- (a) Temporarily connect the multiplex network body ECU connectors.
- (b) Connect the cable to the negative (-) battery terminal.
- (c) Move the back door glass until the bracket can be seen through the service holes.
- (d) Disconnect the cable from the negative (-) battery terminal.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected

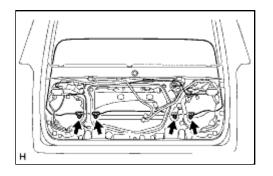
(e) Disconnect the multiplex network body ECU connectors.



(f) Insert the door glass as shown in the illustration.

NOTICE:

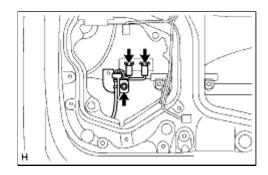
Do not damage the glass.



(g) Install the door glass with the 4 bolts.

Torque: 8.0 N·m (82 kgf·cm, 71in·lbf)

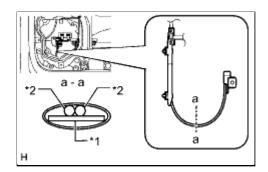
(h) Connect the 2 rear window defogger connectors and install the bolt.



Torque: 8.0 N·m (82 kgf·cm, 71in·lbf)

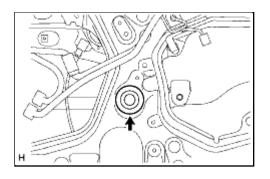
NOTICE:

If the SUS plate is bent, broken, etc., replace the wire harness.



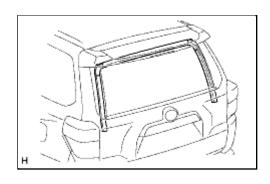
Text in Illustration

*1	SUS Plate
*2	Wire Harness



(i) Install the hole plug.

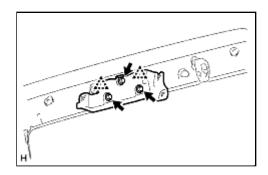
21. INSTALL BACK DOOR GLASS RUN



(a) Install a new back door glass run.

22. INSTALL NO. 1 BACK WINDOW WIPER MOTOR BRACKET

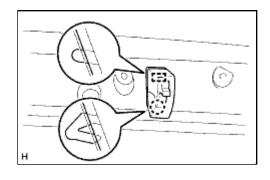
(a) Attach the 2 clips to install the No. 1 back window wiper motor bracket.



(b) Install the 3 bolts.

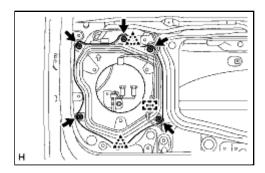
Torque: 8.0 N·m (82 kgf·cm, 71in·lbf)

23. INSTALL LINEAR WIPER STEP RH



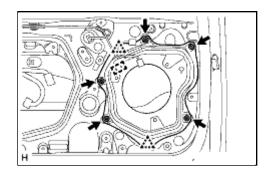
(a) Attach the claw and guide to install the linear wiper step.

- 24. INSTALL REAR WASHER NOZZLE
- 25. INSTALL REAR WIPER MOTOR AND BRACKET ASSEMBLY
- 26. INSTALL REAR WIPER ARM
- 27. INSTALL REAR SPOILER SUB-ASSEMBLY
- 28. INSTALL REAR NO. 1 SPOILER COVER MFO
- 29. INSTALL BACK DOOR OUTSIDE MOULDING LH
- 30. INSTALL BACK DOOR OUTSIDE MOULDING RH
- 31. INSTALL BACK DOOR SERVICE HOLE COVER LH
 - (a) Attach the 2 clips to install the back door service hole cover.



- (b) Install the 5 screws.
- (c) Attach the clamp to install the wire harness.

32. INSTALL BACK DOOR SERVICE HOLE COVER RH

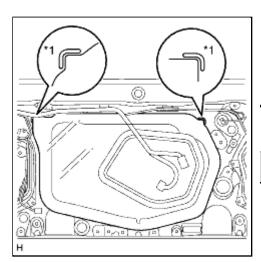


(a) Attach the 2 clips to install the back door service hole cover.

- (b) Install the 5 screws.
- (c) Attach the clamp to install the wire harness.

33. INSTALL NO. 2 BACK DOOR SERVICE HOLE COVER

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



(b) Install a new No. 2 back door service hole cover.

Text in Illustration

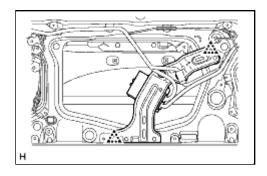
*1 Reference Point

(c) Attach the No. 2 back door service hole cover according to the reference points on the back door

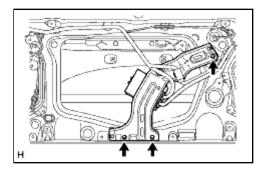
NOTICE:

Securely install the back door service hole cover preventing wrinkles and air bubbles.

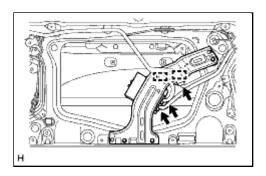
34. INSTALL MULTIPLEX NETWORK DOOR ECU



(a) Attach the 2 clips to install the multiplex network door ECU to the door panel.



(b) Install the 3 screws.



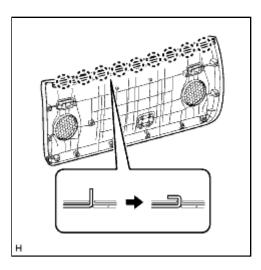
(c) Connect the 3 connectors and attach the 2 clamps.

35. INSTALL REAR NO. 2 SPEAKER ASSEMBLY



36. INSTALL BACK DOOR GLASS WEATHERSTRIP

(a) Install a new back door glass weatherstrip on the back door trim board assembly and fold down the 9 claws as shown in the illustration.



37. INSTALL BACK DOOR TRIM PANEL ASSEMBLY

(a) Attach the 12 clips to install the back door trim board assembly.

38. INSTALL BACK DOOR LOCK PROTECTOR SUB-ASSEMBLY

(a) Attach the 2 claws to install the back door lock protector.

39. INSTALL DOOR PULL HANDLE

(a) Attach the 4 claws to install the back door pull handle.

HINT:

Use the same procedure for all back door pull handles.

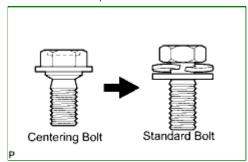


Last Modified: 5-10-2010	6.4 N	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000024NQ00UX
Title: DOOR / HATCH: BACK DOOR: ADJUSTMENT (2010 4Runner)		

ADJUSTMENT

HINT:

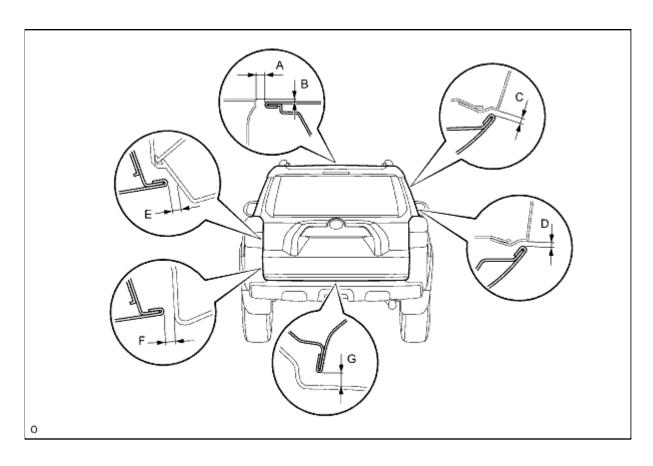
• Use the same procedure for the RH side and LH side.



- 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. Substitute the centering bolts with standard bolts and washers when making adjustments.
- The specified torque for standard bolts is shown in the standard bolt chart

1. INSPECT BACK DOOR

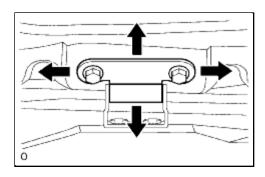
(a) Check that the clearance measurements of areas A through G are within each standard range.



Standard:

AREA	MEASUREMENT	AREA	MEASUREMENT
А	9.2 to 12.2 mm (0.362 to 0.480 in.)	В	0.0 to 3.0 mm (0.0 to 0.118 in.)
С	3.0 to 6.0 mm (0.118 to 0.236 in.)	D	3.7 to 6.7 mm (0.146 to 0.264 in.)
E	6.25 to 9.25 mm (0.246 to 0.364 in.)	F	6.55 to 9.55 mm (0.258 to 0.376 in.)
G	G 8.45 to 11.45 mm (0.333 to 0.451 in.)		-

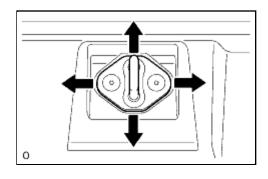
2. ADJUST BACK DOOR



(a) Before adjusting the upper end of the back door up and down or left and right, loosen the bolts.

(b) Tighten the body side hinge after the adjustment.

Torque: 20 N·m (204 kgf·cm, 15ft·lbf)



(c) Using a T40 "TORX" socket wrench, slightly loosen the striker mounting screws.

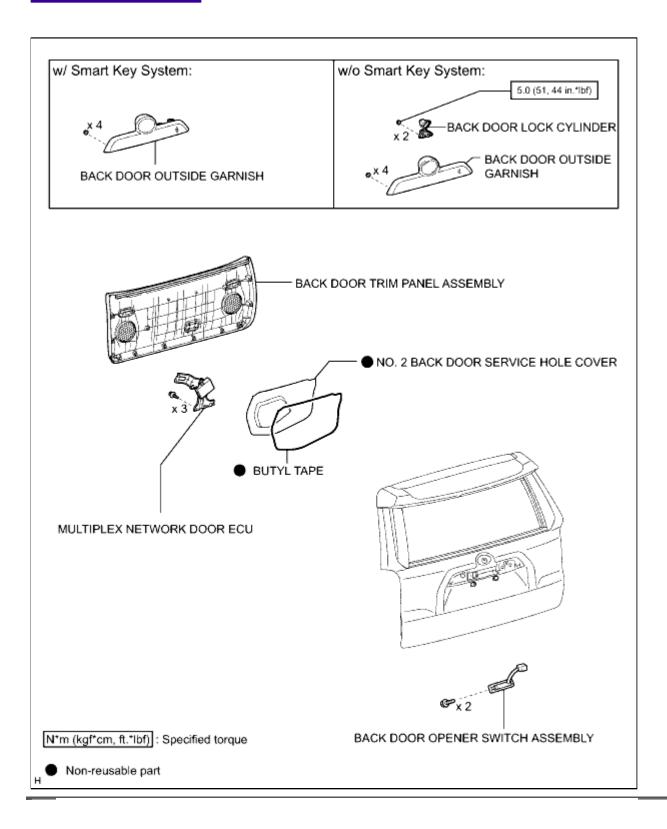
- (d) Using a brass bar and hammer, hit the striker to adjust its position.
- (e) Using a T40 "TORX" socket wrench, tighten the striker mounting screws after the adjustment.

Torque: 27 N·m (275 kgf·cm, 20ft·lbf)

(9)

Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000047LR000X
Title: DOOR / HATCH: BACK DOOR OPENER SWITCH: COMPONENTS (2010 4Runner)		

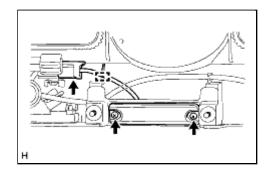
COMPONENTS



Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000002AJO009X
Title: DOOR / HATCH: BACK DOOR OPENER SWITCH: DISASSEMBLY (2010 4Runner)		

DISASSEMBLY

- 1. REMOVE BACK DOOR TRIM PANEL ASSEMBLY
- 2. REMOVE MULTIPLEX NETWORK DOOR ECU
- 3. REMOVE NO. 2 BACK DOOR SERVICE HOLE COVER
- 4. REMOVE OUTER BACK DOOR GLASS WEATHERSTRIP ASSEMBLY
- 5. REMOVE BACK DOOR LOCK CYLINDER (w/o Smart Key System)
- 6. REMOVE BACK DOOR OUTSIDE GARNISH
- 7. REMOVE BACK DOOR OPENER SWITCH ASSEMBLY



(a) Disconnect the connector.

- (b) Detach the guide.
- (c) Remove the 2 screws and back door opener switch assembly.



Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000002XJK014X
Title: DOOR / HATCH: BACK DOOR OPENER SWITCH: INSPECTION (2010 4Runner)		

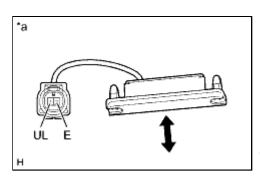
INSPECTION

1. INSPECT BACK DOOR OPENER SWITCH ASSEMBLY

(a) Check the operation of the opener switch.

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

Standard Resistance:



TESTER CONNECTION	SWITCH POSITION	SPECIFIED CONDITION
1 (UL) - 2 (E)	Back door opener switch assembly (opener switch) not pushed (off)	10 k Ω or higher
1 (UL) - 2 (E)	Back door opener switch assembly (opener switch) pushed (on)	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.

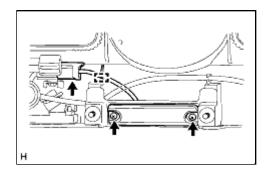




Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000002AJP009X
Title: DOOR / HATCH: BACK DOOR OPENER SWITCH: REASSEMBLY (2010 4Runner)		

REASSEMBLY

1. INSTALL BACK DOOR OPENER SWITCH ASSEMBLY



(a) Install the back door opener switch assembly with the 2 screws.

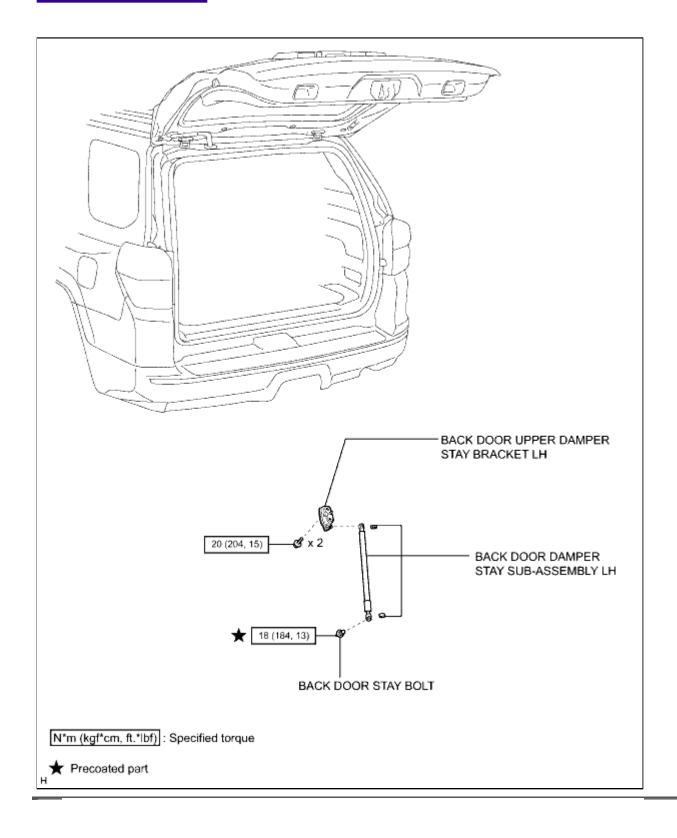
- (b) Attach the guide and connect the connector.
- 2. INSTALL BACK DOOR GARNISH OUTSIDE
- 3. INSTALL BACK DOOR LOCK CYLINDER (w/o Smart Key System)
- 4. INSTALL NO. 2 BACK DOOR SERVICE HOLE COVER
- 5. INSTALL MULTIPLEX NETWORK DOOR ECU
- 6. INSTALL BACK DOOR TRIM PANEL ASSEMBLY

(9)

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Last Modified: 5-10-2010	6.4 K	From: 200908	
Model Year: 2010	Model: 4Runner	Doc ID: RM000001TKX010X	
Title: DOOR / HATCH: BACK DOOR SUPPORT: COMPONENTS (2010 4Runner)			

COMPONENTS



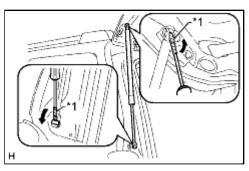
Last Modified: 5-10-2010	6.4 A	From: 200908	
Model Year: 2010	Model: 4Runner	Doc ID: RM000001TKY018X	
Title: DOOR / HATCH: BACK DOOR SUPPORT: REMOVAL (2010 4Runner)			

REMOVAL

1. REMOVE BACK DOOR DAMPER STAY SUB-ASSEMBLY LH

NOTICE:

- A void touching the piston rod as much as possible to prevent foreign matter from attaching to it. Be sure to hold the cylinder while servicing the vehicle.
- 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 damper stay.



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

HINT:

Tape the screwdriver tip before use.

Text in Illustration

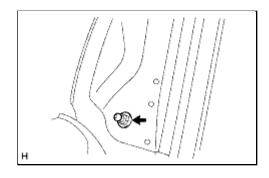
*1 Protective Tape

(b) Release the ball joint and remove the back door damper stay sub-assembly.

NOTICE:

Remove the back door damper stay sub-assembly while supporting the back door by hand.

2. REMOVE BACK DOOR STAY BOLT

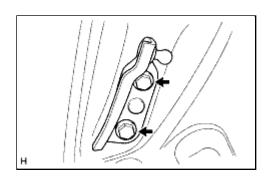


(a) Remove the back door stay bolt.

NOTICE:

If the hood support is detached from the ball joint, it becomes non-reusable. Therefore, do not detach the hood support from the ball joint unless replacing it.

3. REMOVE BACK DOOR UPPER DAMPER STAY BRACKET LH



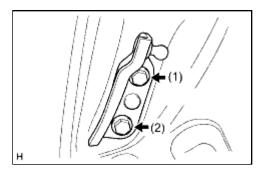
(a) Remove the 2 bolts and back door upper damper stay bracket.

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Last Modified: 5-10-2010	6.4 A	From: 200908	
Model Year: 2010	Model: 4Runner	Doc ID: RM000001TKW01KX	
Title: DOOR / HATCH: BACK DOOR SUPPORT: INSTALLATION (2010 4Runner)			

INSTALLATION

1. INSTALL BACK DOOR UPPER DAMPER STAY BRACKET LH



(a) Install the back door upper damper stay bracket with the 2 bolts.

HINT:

Tighten the bolts in the order shown in the illustration.

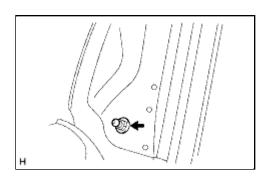
Torque: 20 N·m (204 kgf·cm, 15ft·lbf)

2. INSTALL BACK DOOR STAY BOLT

- (a) Clean the threaded portion on the vehicle body with a non-residue solvent.
- (b) Apply adhesive to the threads of the bolt.

Adhesive:

Toyota Genuine Adhesive 1324, Three Bond 1324 or equivalent



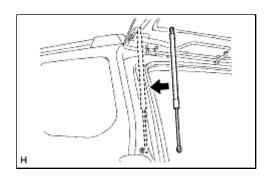
(c) Install the back door stay bolt.

Torque: 18 N·m (184 kgf·cm, 13ft·lbf)

3. INSTALL BACK DOOR DAMPER STAY SUB-ASSEMBLY LH

NOTICE:

- A void touching the piston rod as much as possible to prevent foreign matter from attaching to it. Be sure to hold the cylinder while servicing the vehicle.
- 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 damper stay.



(a) Install a new back door damper stay sub-assembly.

NOTICE:

- Install the back door damper stay sub-assembly while supporting the back door by hand.
- Check that the back door stay assembly is attached to the ball joint and that the back door damper stay sub-assembly cannot be pulled out.



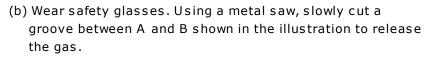


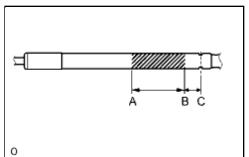
Last Modified: 5-10-2010	6.4 N	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000001TKV018X
Title: DOOR / HATCH: BACK DOOR SUPPORT: DISPOSAL (2010 4Runner)		

DISPOSAL

1. DISPOSE OF BACK DOOR DAMPER STAY SUB-ASSEMBLY LH

(a) Secure the back door damper stay sub-assembly horizontally in a vise with the piston rod pulled out.





Standard:

AREA	MEASUREMENT
A - B	100 mm (3.94 in.)
B - C	30 mm (1.18 in.)

CAUTION:

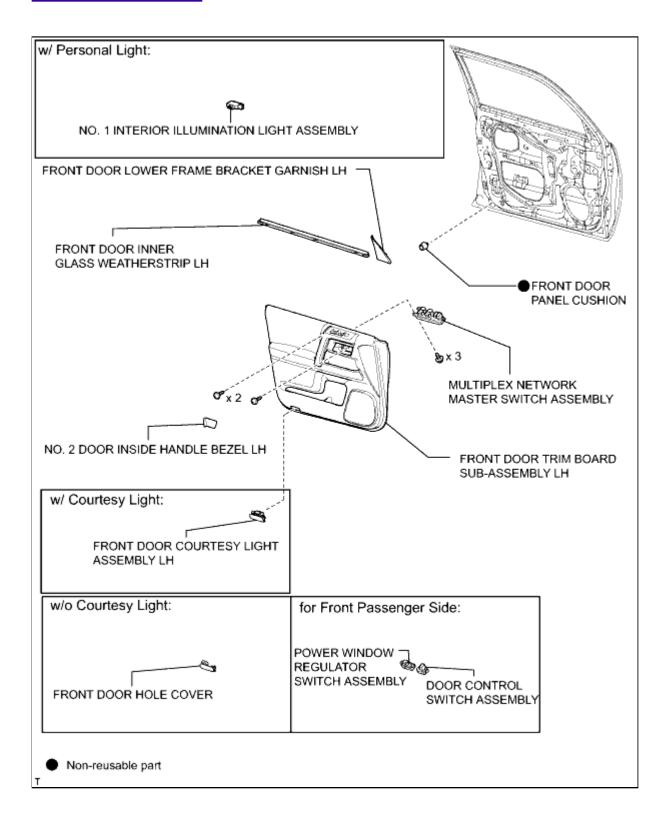
Although the gas inside the back door damper stay sub-assembly is colorless, odorless and harmless, metal debris may scatter. Therefore, cover the back door damper stay sub-assembly with a piece of cloth or other material.



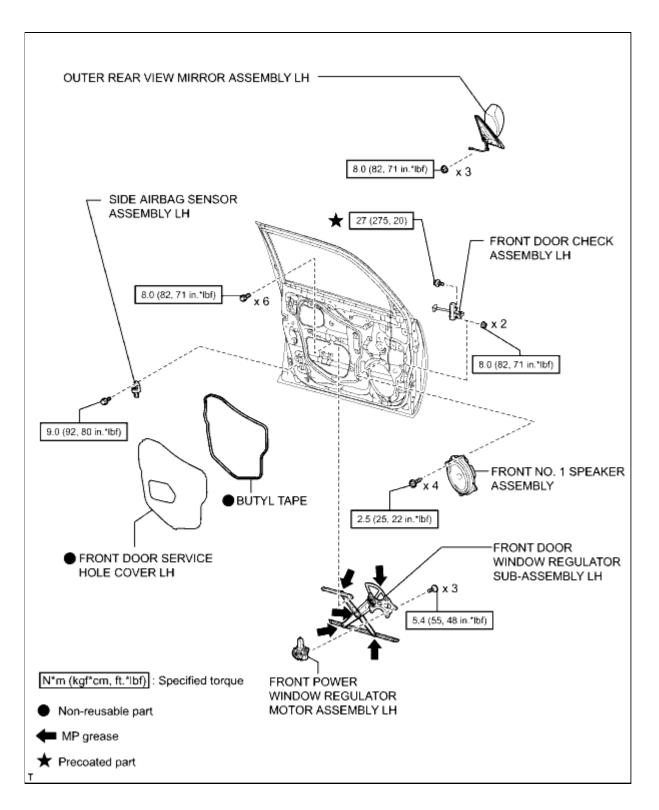
⊕TOYOTA :

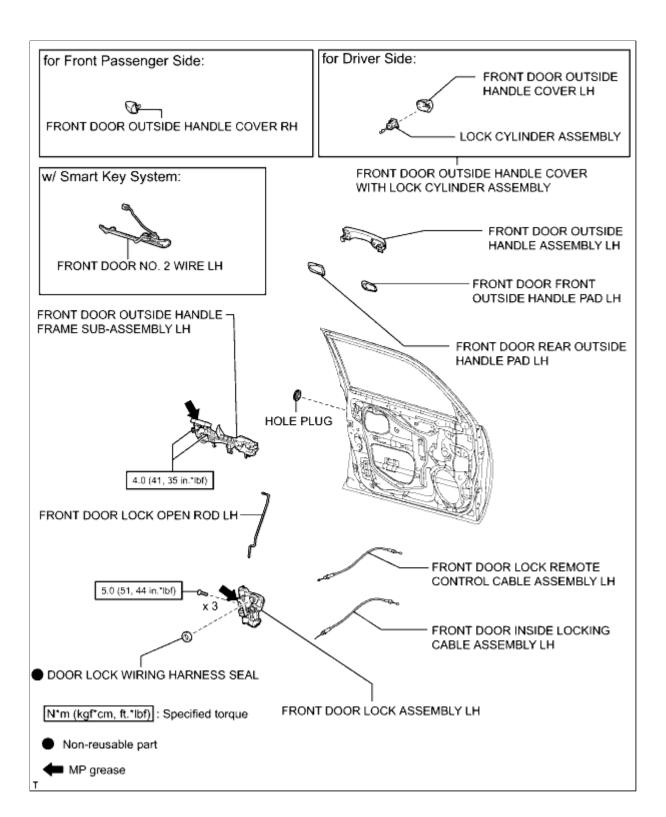
Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000047EH000X
Title: DOOR / HATCH: FRONT DOOR: COMPONENTS (2010 4Runner)		

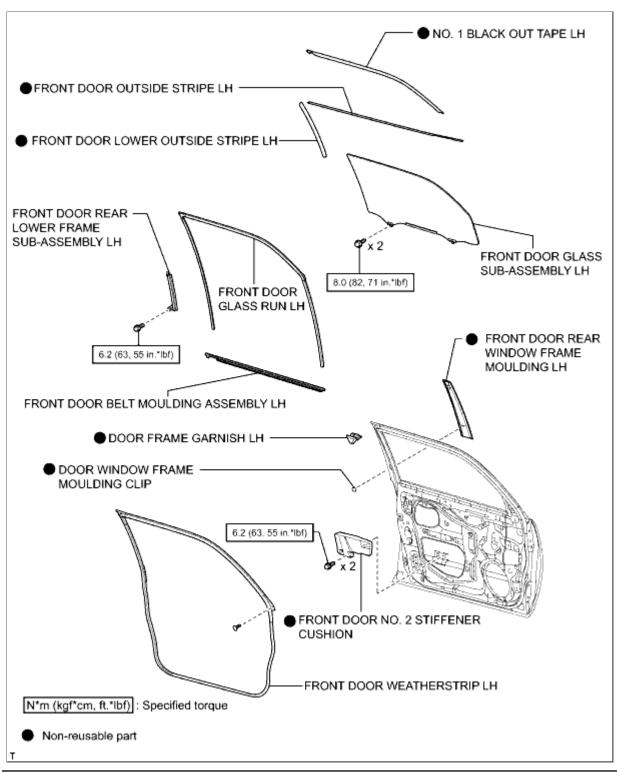
COMPONENTS



ILLUSTRATION







ATOYOT (#)

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000011QF03XX
Title: DOOR / HATCH: FRONT DOOR: DISASSEMBLY (2010 4Runner)		

DISASSEMBLY

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

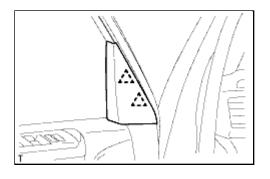
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected

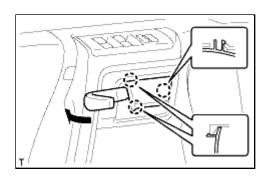


2. REMOVE FRONT DOOR LOWER FRAME BRACKET GARNISH LH



(a) Detach the 2 clips and remove the front door lower frame bracket garnish LH.

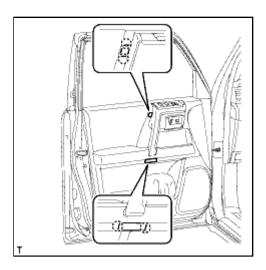
3. REMOVE NO. 2 DOOR INSIDE HANDLE BEZEL LH

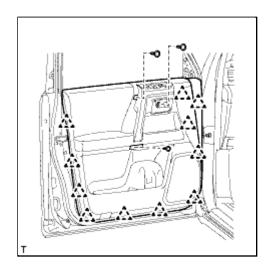


(a) Using a moulding remover, detach the 3 claws and remove the inside handle bezel as shown in the illustration.

4. REMOVE FRONT DOOR TRIM BOARD SUB-ASSEMBLY LH

(a) Detach the 4 claws and 2 door armrest caps.





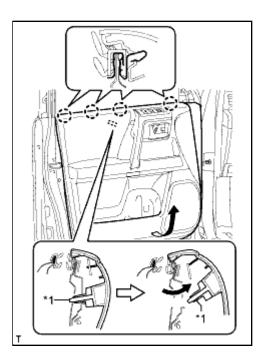
(b) Remove the 3 screws.

(c) Detach the 11 clips.

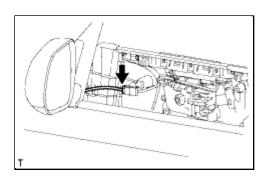
(d) Pull out the front door trim board sub-assembly in the direction indicated by the arrow as shown in the illustration.

Text in Illustration

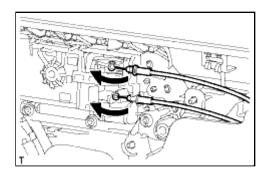
*1 Reference Boss



(e) Raise the front door trim board sub-assembly to detach the 4 claws and remove the front door trim board sub-assembly together with the front door inner glass weatherstrip LH.



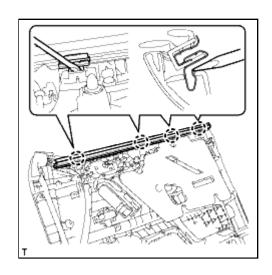
(f) Disconnect the connector.



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

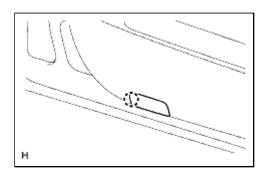
5. REMOVE FRONT DOOR INNER GLASS WEATHERSTRIP LH

(a) Using a screwdriver, detach the 4 claws and remove the



front door inner glass weatherstrip from the front door trim board sub-assembly as shown in the illustration.

- 6. REMOVE NO. 1 INTERIOR ILLUMINATION LIGHT ASSEMBLY (w/ Personal Light)
- 7. REMOVE FRONT DOOR HOLE COVER (w/o Courtesy Light)



(a) Detach the claw and remove the hole cover.

- 8. REMOVE FRONT DOOR COURTESY LIGHT ASSEMBLY LH (w/ Courtesy Light)
- 9. REMOVE MULTIPLEX NETWORK MASTER SWITCH ASSEMBLY (for Driver Side)
- 10. REMOVE DOOR CONTROL SWITCH ASSEMBLY (for Front Passenger Side)
- 11. REMOVE POWER WINDOW REGULATOR SWITCH ASSEMBLY (for Front Passenger Side)
- 12. REMOVE FRONT NO. 1 SPEAKER ASSEMBLY
- 13. REMOVE SIDE AIRBAG SENSOR ASSEMBLY LH
- 14. REMOVE FRONT DOOR SERVICE HOLE COVER LH



(b) Detach the 2 clamps, move the wire harness out of the way and remove the service hole cover.

HINT:

Remove any remaining butyl tape from the door.

15. REMOVE OUTER REAR VIEW MIRROR ASSEMBLY LH

16. REMOVE FRONT DOOR GLASS SUB-ASSEMBLY LH

- (a) Connect the cable to the negative (-) battery terminal.
- (b) Connect the power window regulator master switch assembly and move the front door glass sub-assembly so that the door glass bolts can be seen.
- (c) Disconnect the cable from the negative (-) battery terminal and power window regulator master switch assembly.

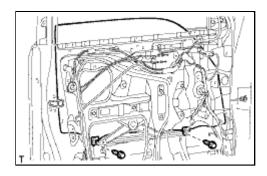
CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected

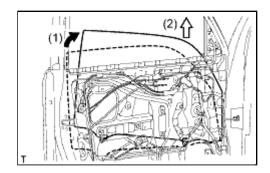




(d) Remove the 2 bolts.

NOTICE:

Be careful when removing the bolts as the glass may fall and become damaged.

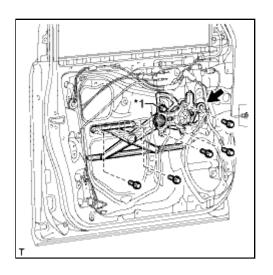


the arrows in the order shown in the illustration.

NOTICE:

Do not damage the door glass.

17. REMOVE FRONT DOOR WINDOW REGULATOR SUB-ASSEMBLY LH



(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 may fall and cause damage.

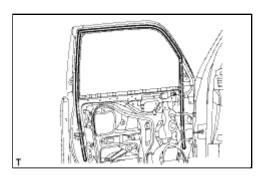
- (c) Remove the 5 bolts.
- (d) Remove the front door window regulator sub-assembly.
- (e) Remove the temporary bolt from the front door window regulator sub-assembly.

18. REMOVE FRONT POWER WINDOW REGULATOR MOTOR ASSEMBLY LH

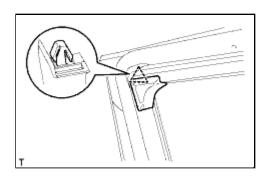


19. REMOVE FRONT DOOR GLASS RUN LH

(a) Remove the front door glass run.

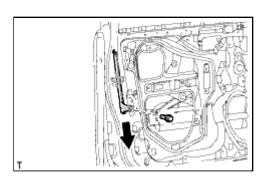


20. REMOVE DOOR FRAME GARNISH LH



(a) Detach the clip and remove the door frame garnish.

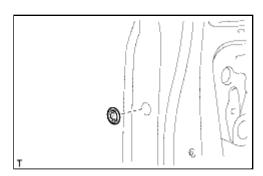
21. REMOVE FRONT DOOR REAR LOWER FRAME SUB-ASSEMBLY LH

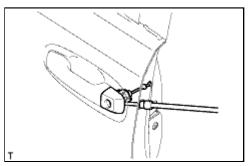


(a) Remove the bolt and front door rear lower frame sub-assembly as shown in the illustration.

22. REMOVE FRONT DOOR OUTSIDE HANDLE COVER WITH LOCK CYLINDER ASSEMBLY (for Driver Side)

(a) Remove the hole plug.



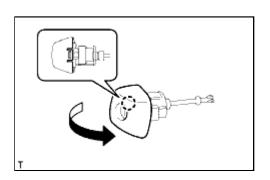


(b) Using a T30 "TORX" socket wrench, loosen the screw and remove the front door outside handle cover with lock cylinder assembly.

HINT:

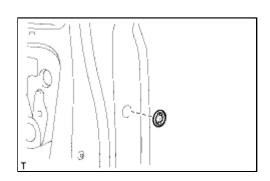
The screw cannot be removed because it is integrated into the front door outside handle frame sub-assembly.

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

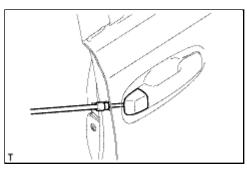


(a) Using a screwdriver, detach the claw and remove the front door outside handle cover.

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



(a) Remove the hole plug.



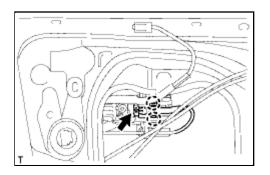
(b) Using a T30 "TORX" socket wrench, loosen the screw and remove the front door outside handle cover.

HINT:

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

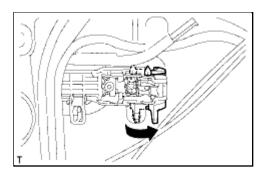
25. REMOVE FRONT DOOR OUTSIDE HANDLE ASSEMBLY LH

(a) w/ Smart Key System:



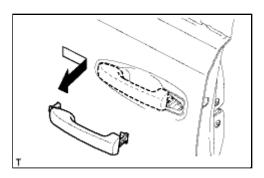
(1) Detach the 2 claws.

(2) Disconnect the connector.

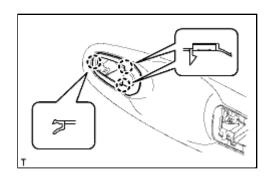


(b) Move the lever in the direction indicated by the arrow in the illustration.

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

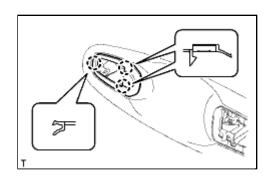


26. REMOVE FRONT DOOR FRONT OUTSIDE HANDLE PAD LH



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

27. REMOVE FRONT DOOR REAR OUTSIDE HANDLE PAD LH

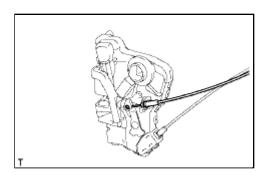


(a) Detach the 2 claws and remove the front door rear outside handle pad.

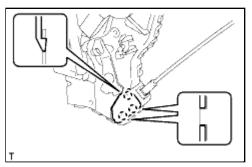
28. REMOVE FRONT DOOR LOCK ASSEMBLY LH

29. REMOVE FRONT DOOR LOCK REMOTE CONTROL CABLE ASSEMBLY LH

(a) Remove the front door lock remote control cable assembly.



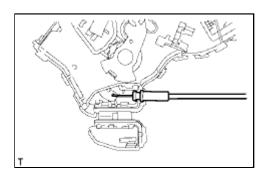
30. REMOVE FRONT DOOR INSIDE LOCKING CABLE ASSEMBLY LH



(a) Using a screwdriver, detach the 3 claws.

HINT:

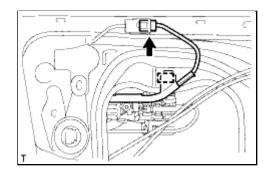
Tape the screwdriver tip before use.



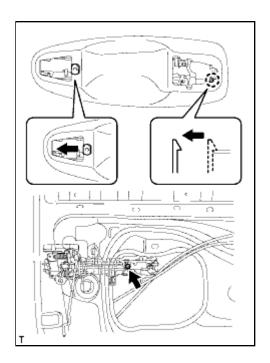
(b) Remove the front door inside locking cable assembly.

31. REMOVE FRONT DOOR OUTSIDE HANDLE FRAME SUB-ASSEMBLY LH

(a) w/ Smart Key System:



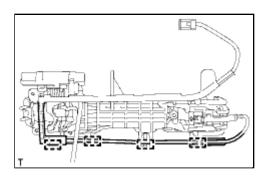
(1) Disconnect the connector.



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

(c) Slide the front door outside handle frame sub-assembly to detach the door handle nut and claw of the front door outside handle frame sub-assembly. Then remove the front door outside handle frame.

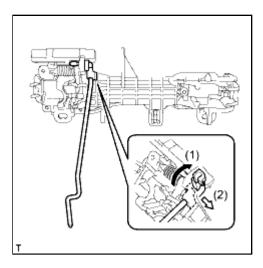
32. REMOVE FRONT DOOR NO. 2 WIRE LH (w/ Smart Key System)



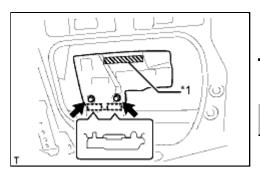
(a) Detach the 4 clamps and remove the front door No. 2 wire.

33. REMOVE FRONT DOOR LOCK OPEN ROD LH

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



34. REMOVE FRONT DOOR NO. 2 STIFFENER CUSHION



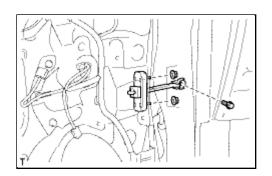
(a) Remove the 2 bolts.

Text in Illustration

*1 Double-sided Tape

(b) Detach the 2 claws and remove the front door No. 2 stiffener cushion.

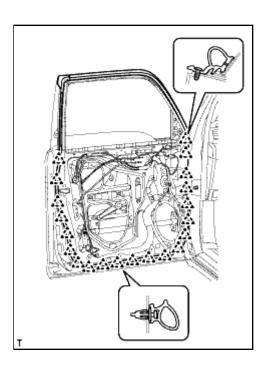
35. REMOVE FRONT DOOR CHECK ASSEMBLY LH



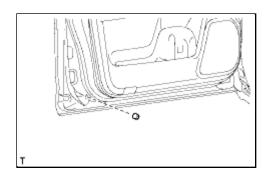
(a) Remove the bolt, 2 nuts and front door check assembly.

36. REMOVE FRONT DOOR WEATHERSTRIP LH

(a) Using a clip remover, detach the 21 clips and remove the front door weatherstrip.



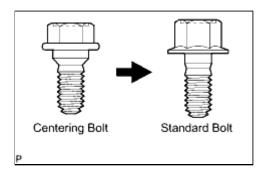
- 37. REMOVE FRONT DOOR BELT MOULDING LH
- 38. REMOVE FRONT DOOR REAR WINDOW FRAME MOULDING LH
- 39. REMOVE NO. 1 BLACK OUT TAPE LH
- 40. REMOVE FRONT DOOR OUTSIDE STRIPE LH
- 41. REMOVE FRONT DOOR LOWER OUTSIDE STRIPE LH
- 42. REMOVE FRONT DOOR PANEL CUSHION



(a) Using a clip remover, detach the clip and remove the door panel cushion.

Last Modified: 5-10-2010	6.4 N	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000000XB803HX
Title: DOOR / HATCH: FRONT DOOR: ADJUSTMENT (2010 4Runner)		

ADJUSTMENT

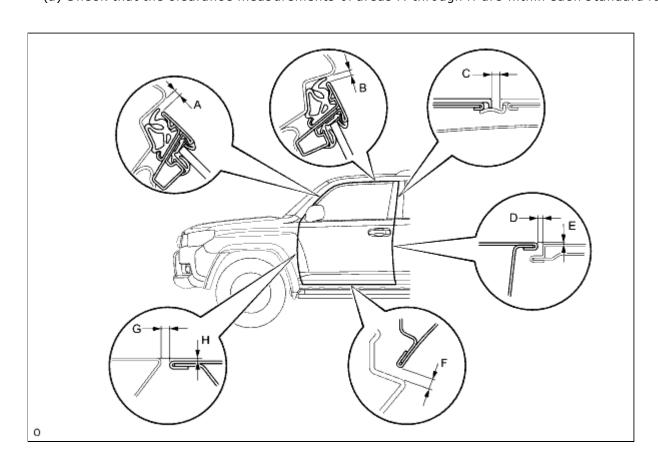


HINT:

- Centering bolts are used to mount the door hinge to the vehicle body and door. The door cannot be adjusted with the centering bolts installed on it. Substitute the centering bolts with standard bolts when making adjustments.

1. INSPECT FRONT DOOR

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



Standard:

AREA	MEASUREMENT	AREA	MEASUREMENT
А	3.8 to 6.8 mm (0.150 to 0.268 in.)	В	3.9 to 6.9 mm (0.154 to 0.272 in.)
С	3.4 to 6.4 mm (0.134 to 0.252 in.)	D	3.0 to 6.0 mm (0.118 to 0.236 in.)
E	E -1.5 to 1.5 mm (-0.0591 to 0.0591 in.)		4.05 to 7.05 mm (0.159 to 0.278 in.)
G	2.7 to 5.7 mm (0.106 to 0.224 in.)	Н	-1.5 to 1.5 mm (-0.0591 to 0.0591 in.)

2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

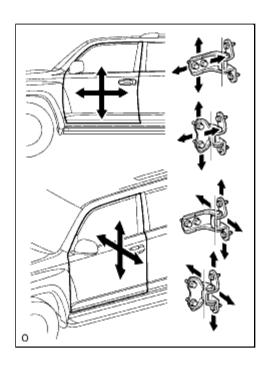
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



3. ADJUST FRONT DOOR



(a) Using SST, loosen the hinge bolts on the vehicle body and adjust the door position.

SST: 09812-00010

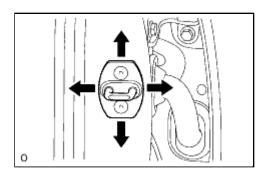
(b) Tighten the hinge bolts on the vehicle body after the adjustment.

Torque: 26 N·m (265 kgf·cm, 19ft·lbf)

- (c) Loosen the hinge bolts on the door and adjust the door position.
- (d) Tighten the hinge bolts on the door after the adjustment.

Torque: 27 N·m (275 kgf·cm, 20ft·lbf)

(e) Using a T40 "TORX" socket wrench, slightly loosen the striker mounting screws.



- (f) Using a brass bar and hammer, hit the striker to adjust its position.
- (g) Using a T40 "TORX" socket wrench, tighten the striker mounting screws after the adjustment.

Torque: 23 N·m (235 kgf·cm, 17ft·lbf)

4. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected





Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000011QG03XX
Title: DOOR / HATCH: FRONT DOOR: REASSEMBLY (2010 4Runner)		

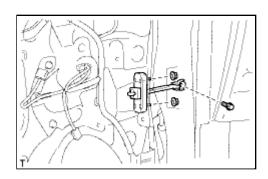
REASSEMBLY

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

1. INSTALL FRONT DOOR PANEL CUSHION

- (a) Attach the clip to install a new door panel cushion.
- 2. INSTALL FRONT DOOR LOWER OUTSIDE STRIPE LH
- 3. INSTALL FRONT DOOR OUTSIDE STRIPE LH
- 4. INSTALL NO. 1 BLACK OUT TAPE LH
- 5. INSTALL FRONT DOOR REAR WINDOW FRAME MOULDING LH
- 6. INSTALL FRONT DOOR BELT MOULDING ASSEMBLY LH
- 7. INSTALL FRONT DOOR WEATHERSTRIP LH
 - (a) Attach the 21 clips to install a new front door weatherstrip.
- 8. INSTALL FRONT DOOR CHECK ASSEMBLY LH
 - (a) Apply MP grease to the sliding areas of the front door check assembly.



(b) Install the door check to the door panel with the 2 nuts.

Torque: 8.0 N·m (82 kgf·cm, 71in·lbf)

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

Adhesive:

Toyota Genuine Adhesive 1324, Three Bond 1324 or equivalent

(d) Install the door check to the body panel with the bolt.

Torque: 27 N·m (275 kgf·cm, 20ft·lbf)

9. INSTALL FRONT DOOR NO. 2 STIFFENER CUSHION

(a) Clean the installation surface.

(1) Using a heat light, heat the installation surface.

HINT:

When installing the front door No. 2 stiffener cushion, heat the vehicle body using a heat light.

Standard:

ITEM	TEMPERATURE
Vehicle body	40 to 60°C (104 to 140°F)

NOTICE:

Do not heat the door stiffener cushion and vehicle body excessively.

- (2) Remove the double-sided tape from the installation surface.
- (3) Wipe off any tape adhesive residue with cleaner.
- (b) Install a new door stiffener cushion.
 - (1) Using a heat light, heat a new front door No. 2 stiffener cushion and the installation surface.

HINT:

When installing the front door No. 2 stiffener cushion, heat the vehicle body and door stiffener cushion using a heat light.

Standard:

ITEM	TEMPERATURE
Door stiffener cushion	20 to 30°C (68 to 86°F)
Vehicle body	40 to 60°C (104 to 140°F)

NOTICE:

Do not heat the door stiffener cushion and vehicle body excessively.

(2) Remove the peeling paper from the face of the door stiffener cushion.

HINT:

After removing the peeling paper, keep the exposed adhesive free from foreign matter.

(3) Attach the 2 clamps and double-sided tape to install the front door No. 2 stiffener cushion.

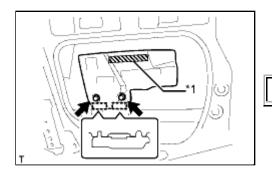
HINT:

Press the front door No. 2 stiffener cushion firmly to install it.

(4) Install the 2 bolts.

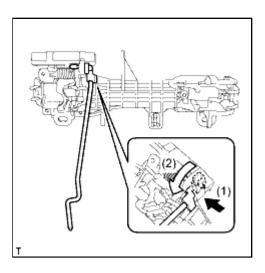
Torque: 6.2 N·m (63 kgf·cm, 55in·lbf)

Text in Illustration



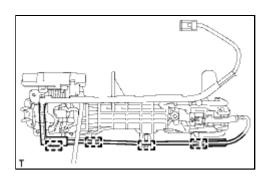
*1 Double-sided Tape

10. INSTALL FRONT DOOR LOCK OPEN ROD LH



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

11. INSTALL FRONT DOOR NO. 2 WIRE LH (w/ Smart Key System)

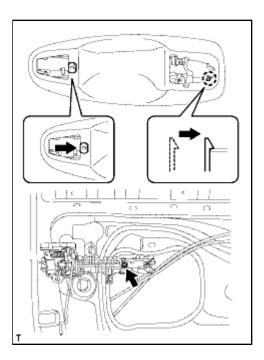


(a) Attach the 4 clamps to install the front door No. 2 wire.

12. INSTALL FRONT DOOR OUTSIDE HANDLE FRAME SUB-ASSEMBLY LH

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

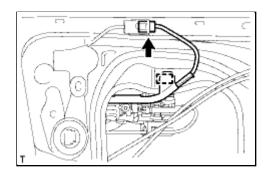
(b) Attach the door handle nut and claw.



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

Torque: 4.0 N·m (41 kgf·cm, 35in·lbf)

(d) w/ Smart Key System:



(1) Attach the clamp to install the front door No. 2 wire.

(2) Connect the connector to the front door wire.

13. INSTALL FRONT DOOR REAR OUTSIDE HANDLE PAD LH

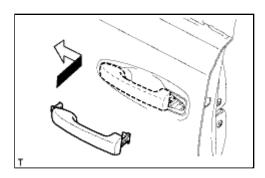
(a) Attach the 2 claws to install the front door rear outside handle pad.

14. INSTALL FRONT DOOR FRONT OUTSIDE HANDLE PAD LH

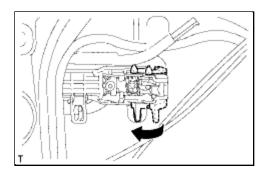
(a) Attach the 3 claws to install the front door front outside handle pad.

15. INSTALL FRONT DOOR OUTSIDE HANDLE ASSEMBLY LH

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

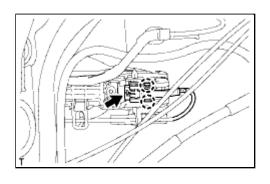


(b) Insert the rear end of the front door outside handle assembly into the front door outside handle frame. Then slide the front door outside handle assembly toward the front of the vehicle to install it.



(c) Move the lever back in the direction indicated by the arrow in the illustration to lock the door outside handle assembly.

(d) w/ Smart Key System:



(1) Connect the connector.

(2) Attach the 2 claws.

16. INSTALL FRONT DOOR INSIDE LOCKING CABLE ASSEMBLY LH

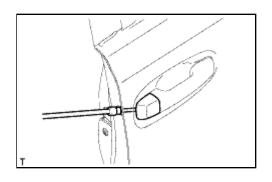
- (a) Install the front door inside locking cable assembly.
- (b) Attach the 3 claws.

17. INSTALL FRONT DOOR LOCK REMOTE CONTROL CABLE ASSEMBLY LH

(a) Install the front door lock remote control cable assembly.

18. INSTALL FRONT DOOR LOCK ASSEMBLY LH

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

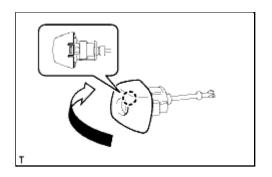


(a) Using a T30 "TORX" socket wrench, install the front door outside handle cover with the screw.

Torque: 4.0 N·m (41 kgf·cm, 35in·lbf)

(b) Install the hole plug.

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



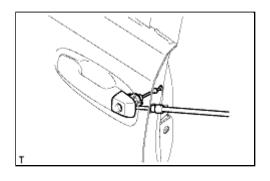
(a) Attach the claw and install the front door outside handle cover to the front door lock cylinder.

21. INSTALL FRONT DOOR OUTSIDE HANDLE COVER WITH LOCK CYLINDER ASSEMBLY (for Driver Side)

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

HINT:

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

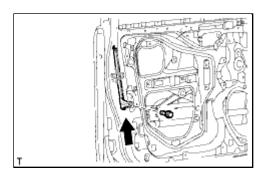


(b) Using a T30 "TORX" socket wrench, install the front door lock cylinder with the screw.

Torque: 4.0 N·m (41 kgf·cm, 35in·lbf)

(c) Install the hole plug.

22. INSTALL FRONT DOOR REAR LOWER FRAME SUB-ASSEMBLY LH



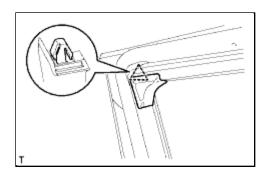
(a) Install the front door rear lower frame sub-assembly with the bolt as shown in the illustration.

Torque: 6.2 N·m (63 kgf·cm, 55in·lbf)

23. INSTALL FRONT DOOR GLASS RUN LH

(a) Install the front door glass run.

24. INSTALL DOOR FRAME GARNISH LH



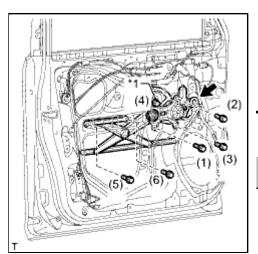
(a) Attach the clip to install a new door frame garnish.

25. INSTALL FRONT POWER WINDOW REGULATOR MOTOR ASSEMBLY LH



26. INSTALL FRONT DOOR WINDOW REGULATOR SUB-ASSEMBLY LH

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



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

Text in Illustration

*1	Temporary Bolt
	Temporary Bott

(d) Tighten the temporary bolt and 5 bolts to install the front door window regulator assembly.

HINT:

Tighten the bolts in the order shown in the illustration.

Torque: 8.0 N·m (82 kgf·cm, 71in·lbf)

(e) Connect the connector.

27. INSTALL FRONT DOOR GLASS SUB-ASSEMBLY LH

- (a) Connect the cable to the negative (-) battery terminal.
- (b) Connect the power window regulator master switch assembly and move the front door glass sub-assembly so that the door glass bolts can be seen.
- (c) Disconnect the cable from the negative (-) battery terminal and power window regulator master switch assembly.

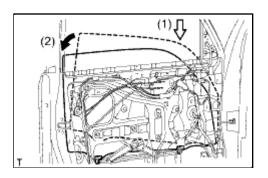
CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

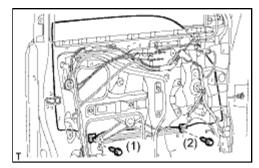
NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected





(d) Insert the front door glass sub-assembly into the front door panel along the front door glass run as indicated by the arrows in the order shown in the illustration.



(e) Install the front door glass sub-assembly with the 2 bolts.

Torque: 5.5 N·m (56 kgf·cm, 49in·lbf)

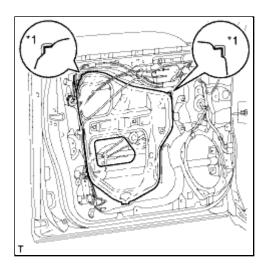
HINT:

Tighten the bolts in the order shown in the illustration.

28. INSTALL OUTER REAR VIEW MIRROR ASSEMBLY LH

29. INSTALL FRONT DOOR SERVICE HOLE COVER LH

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



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

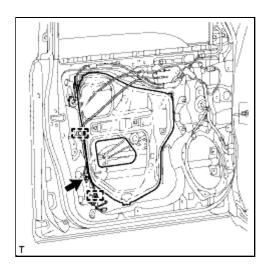
(c) Install a new front door service hole cover according to the reference points on the front door panel.

Text in Illustration

*1 Reference Point

NOTICE:

Securely install the front door service hole cover preventing wrinkles and air bubbles.



(d) Attach the 2 clamps.

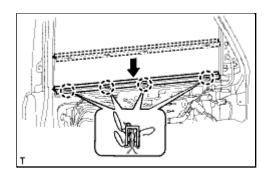
(e) Install the bolt to the front door wire.

30. INSTALL SIDE AIRBAG SENSOR ASSEMBLY LH

31. INSTALL FRONT NO. 1 SPEAKER ASSEMBLY

32. INSTALL POWER WINDOW REGULATOR SWITCH ASSEMBLY (for Front Passenger Side) | NFO |

- 33. INSTALL DOOR CONTROL SWITCH ASSEMBLY (for Front Passenger Side)
- 34. INSTALL MULTIPLEX NETWORK MASTER SWITCH ASSEMBLY (for Driver Side)
- 35. INSTALL FRONT DOOR INNER GLASS WEATHERSTRIP LH



(a) Install the front door inner glass weatherstrip.

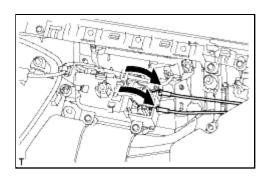
36. INSTALL NO. 1 INTERIOR ILLUMINATION LIGHT ASSEMBLY (w/ Personal Light)



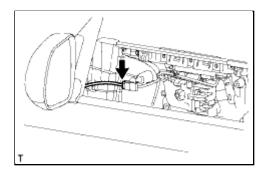
- 37. INSTALL REAR DOOR HOLE COVER (w/o Courtesy Light)
 - (a) Attach the claw to install the hole cover.
- 38. INSTALL FRONT DOOR COURTESY LIGHT ASSEMBLY LH (w/ Courtesy Light)



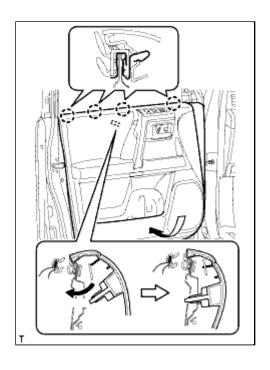
39. INSTALL FRONT DOOR TRIM BOARD SUB-ASSEMBLY LH



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



(b) Connect the connector.



(c) Attach the front door trim board sub-assembly to the 4 claws of the front door inner glass as shown in the illustration.

- (d) Attach the 11 clips to install the front door trim board sub-assembly.
- (e) Install the 3 screws.
- (f) Attach the 4 claws to install the 2 door armrest caps.

40. INSTALL NO. 2 DOOR INSIDE HANDLE BEZEL LH

(a) Attach the 3 claws to install the inside handle bezel.

41. INSTALL FRONT DOOR LOWER FRAME BRACKET GARNISH LH

(a) Attach the 2 clips to install the front door lower frame bracket garnish.

42. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



43. INITIALIZE POWER WINDOW CONTROL SYSTEM

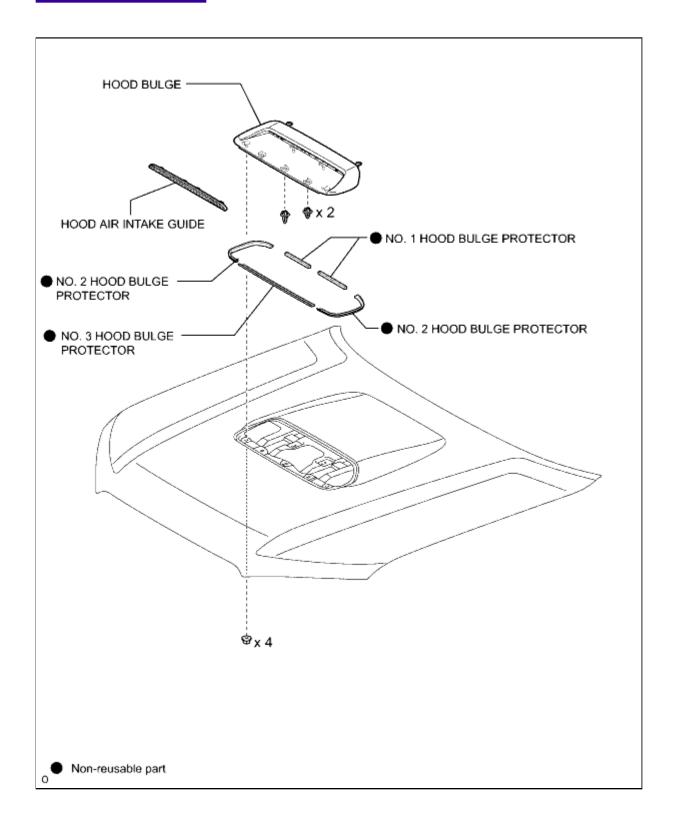
(a) Initialize the power window control system

44. CHECK SRS WARNING LIGHT

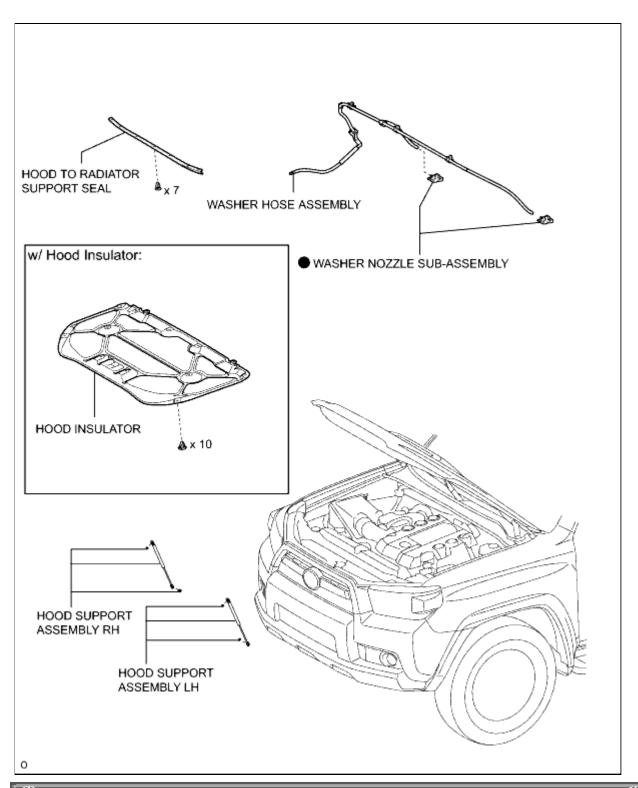
(a) Check the SRS warning light

Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000047EE000X
Title: DOOR / HATCH: HOOD: COMPONENTS (2010 4Runner)		

COMPONENTS



ILLUSTRATION



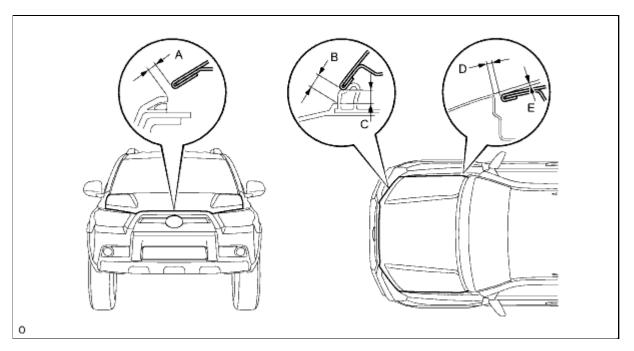
: (B) (B) TOYOTA :

Last Modified: 5-10-2010	6.4 G	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000000XB702TX
Title: DOOR / HATCH: HOOD: ON-VEHICLE INSPECTION (2010 4Runner)		

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:

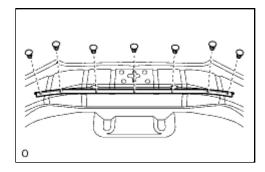
AREA	MEASUREMENT	AREA	MEASUREMENT
А	3.65 to 7.65 mm (0.144 to 0.301 in.)	В	5.15 to 9.15 mm (0.203 to 0.360 in.)
С	4.05 to 8.05 mm (0.165 to 0.323 in.)	D	2.0 to 5.0 mm (0.0787 to 0.197 in.)
Е	-1.5 to 1.5 mm (-0.0591 to 0.0591 in.)	-	-

(#) TOYOTA

Last Modified: 5-10-2010	6.4 A	From: 200908	
Model Year: 2010	Model: 4Runner	Doc ID: RM000002Y4M014X	
Title: DOOR / HATCH: HOOD: DISASSEMBLY (2010 4Runner)			

DISASSEMBLY

1. REMOVE HOOD TO RADIATOR SUPPORT SEAL

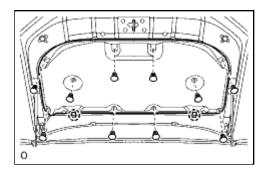


(a) Using a clip remover, remove the 7 clips and hood to radiator support seal.

NOTICE:

If the clips are damaged or fall off, replace them with new clips.

2. REMOVE HOOD INSULATOR (w/ Hood Insulator)



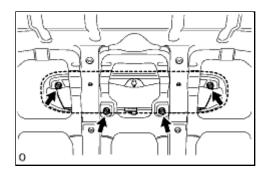
(a) Using a clip remover, remove the 10 clips.

NOTICE:

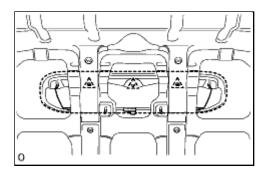
If the clips are damaged or fall off, replace them with new clips.

(b) Detach the 2 claws and remove the hood insulator.

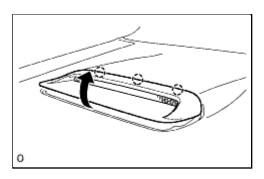
3. REMOVE HOOD BULGE (w/ Hood Bulge)



(a) Remove the 4 nuts.

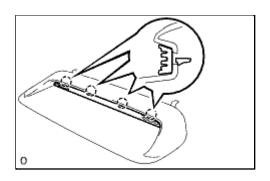


(b) Detach the 3 clips from the back side of the hood panel.



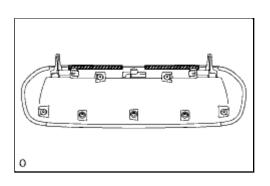
(c) Using moulding remover D, detach the 3 claws and remove the hood bulge together with the air intake guide as shown in the illustration.

4. REMOVE HOOD AIR INTAKE GUIDE



(a) Detach the 4 claws and remove the hood air intake guide.

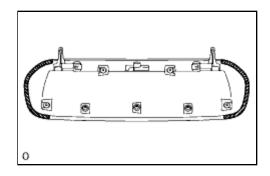
5. REMOVE NO. 1 HOOD BULGE PROTECTOR



(a) Remove the 2 No. 1 hood bulge protectors.

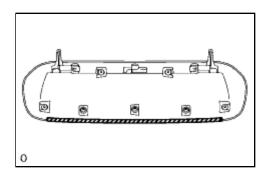
cardiagn.com

6. REMOVE NO. 2 HOOD BULGE PROTECTOR



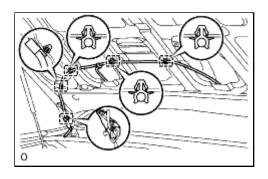
(a) Remove the 2 No. 2 hood bulge protectors.

7. REMOVE NO. 3 HOOD BULGE PROTECTOR



(a) Remove the No. 3 hood bulge protector.

- 8. REMOVE WASHER NOZZLE SUB-ASSEMBLY
- 9. DISCONNECT WASHER HOSE ASSEMBLY



(a) Detach the 5 clamps and disconnect the washer hose assembly.

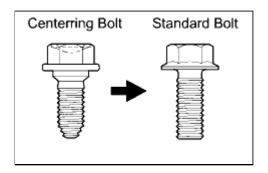
- 10. REMOVE HOOD SUPPORT ASSEMBLY LH
- 11. REMOVE HOOD SUPPORT ASSEMBLY RH

HINT:

Use the same procedure for the RH and LH sides.

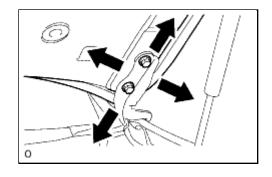
Last Modified: 5-10-2010	6.4 N	From: 200908	
Model Year: 2010	Model: 4Runner	Doc ID: RM000000XB5039X	
Title: DOOR / HATCH: HOOD: ADJUSTMENT (2010 4Runner)			

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.
- 1. REMOVE UPPER RADIATOR SUPPORT SEAL
- 2. REMOVE RADIATOR GRILLE
- 3. REMOVE RADIATOR GRILLE BRACKET
- 4. INSPECT HOOD SUB-ASSEMBLY NFO
- 5. ADJUST HOOD SUB-ASSEMBLY
 - (a) Adjust the hood position.

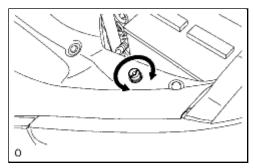


(1) Loosen the 4 hinge bolts on the hood.

- (2) Move the hood and adjust the clearance between the hood and front fender.
- (3) Tighten the 4 hinge bolts on the hood after the adjustment.

Torque: 13 N·m (133 kgf·cm, 10ft·lbf)

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

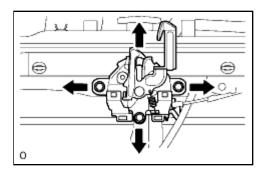


(1) Adjust the cushion rubbers so that the hood and fender are aligned.

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 and tighten the 3 bolts.

Torque: 7.5 N·m (76 kgf·cm, 66in·lbf)

- (3) Check that the striker can engage with the hood lock smoothly.
- 6. INSTALL RADIATOR GRILLE BRACKET
- 7. INSTALL RADIATOR GRILLE
- 8. INSTALL UPPER RADIATOR SUPPORT SEAL





Last Modified: 5-10-2010	6.4 A	From: 200908	
Model Year: 2010	Model: 4Runner	Doc ID: RM000002Y4N012X	
Title: DOOR / HATCH: HOOD: REASSEMBLY (2010 4Runner)			

REASSEMBLY

NOTICE:

When installing the hood bulge protector, heat the hood bulge surface using a heat light.

Standard:

ITEM	TEMPERATURE
Hood Bulge	20 to 30°C (68 to 86°F)

NOTICE:

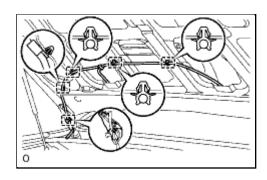
Do not heat the hood bulge excessively.

- 1. INSTALL HOOD SUPPORT ASSEMBLY LH
- 2. INSTALL HOOD SUPPORT ASSEMBLY RH

HINT:

Use the same procedure described for the LH side.

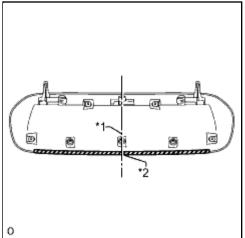
3. CONNECT WASHER HOSE ASSEMBLY



(a) Attach the 5 clamps and connect the washer hose assembly.

- 4. INSTALL WASHER NOZZLE SUB-ASSEMBLY
- 5. INSPECT WASHER NOZZLE SUB-ASSEMBLY
- 6. ADJUST WASHER NOZZLE SUB-ASSEMBLY
- 7. INSTALL NO. 3 HOOD BULGE PROTECTOR (w/ Hood Bulge)
 - (a) When using a new hood bulge:
 - (1) Clean the hood bulge surface.
 - (2) Using a heat light, heat the hood bulge surface.
 - (b) When reusing the hood bulge:

- (1) Using a heat light, heat the hood bulge surface.
- (2) Remove the double-sided tape from the hood bulge.
- (3) Wipe off any tape adhesive residue with cleaner.



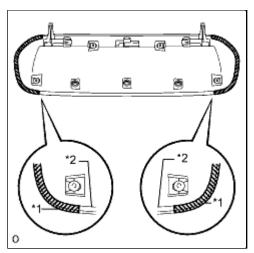
(c) Install a new No. 3 hood bulge protector as shown in the illustration.

Text in Illustration

*1	Hood Bulge at the Center
* 2	No. 3 Hood Bulge Protector at the Center

8. INSTALL NO. 2 HOOD BULGE PROTECTOR (w/ Hood Bulge)

- (a) When using a new hood bulge:
 - (1) Clean the hood bulge surface.
 - (2) Using a heat light, heat the hood bulge surface.
- (b) When reusing the hood bulge:
 - (1) Using a heat light, heat the hood bulge surface.
 - (2) Remove the double-sided tape from the hood bulge.
 - (3) Wipe off any tape adhesive residue with cleaner.



(c) Install 2 new No. 2 hood bulge protectors as shown in the illustration.

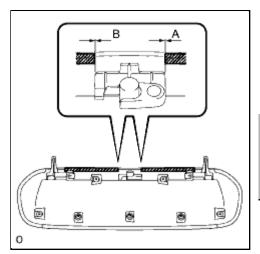
Text in Illustration

*1	No. 2 Hood Bulge Protector
*2	No. 3 Hood Bulge Protector

9. INSTALL NO. 1 HOOD BULGE PROTECTOR (w/ Hood Bulge)

(a) When using a new hood bulge:

- (1) Clean the hood bulge surface.
- (2) Using a heat light, heat the hood bulge surface.
- (b) When reusing the hood bulge:
 - (1) Using a heat light, heat the hood bulge surface.
 - (2) Remove the double-sided tape from the hood bulge.
 - (3) Wipe off any tape adhesive residue with cleaner.

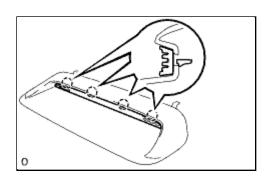


(c) Install a new No. 1 hood bulge protector as shown in the illustration.

Standard:

DIMENSION	MEASUREMENT	
А	Approximately 0 mm (0 in.)	
В	Approximately 0 mm (0 in.)	

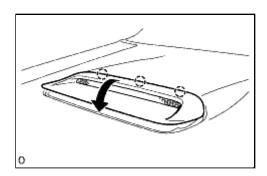
10. INSTALL HOOD AIR INTAKE GUIDE (w/ Hood Bulge)

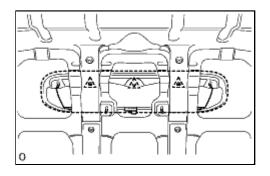


(a) Attach the 4 claws to install the hood air intake guide to the bulge.

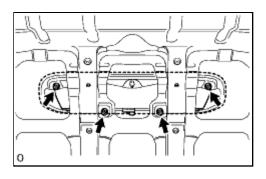
11. INSTALL HOOD BULGE (w/ Hood Bulge)

(a) Attach the 3 claws to install the hood bulge together with the intake guide.



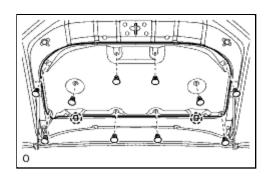


(b) Attach the 3 clips.



(c) Install the 4 nuts.

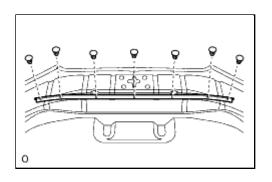
12. INSTALL HOOD INSULATOR (w/ Hood Insulator)



(a) Attach the 2 claws.

(b) Install the hood insulator with the 10 clips.

13. INSTALL HOOD TO RADIATOR SUPPORT SEAL

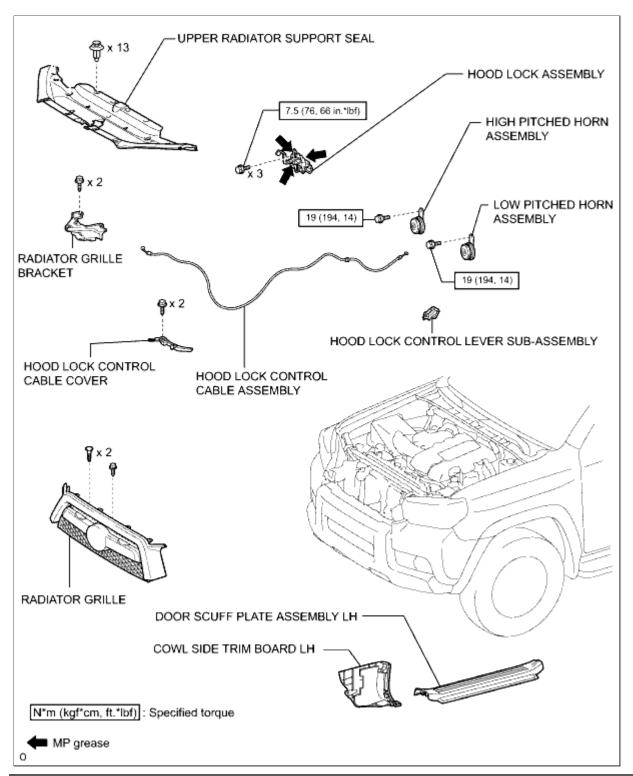


(a) Attach the 7 clips to install the hood to radiator support seal.

_(2)

Last Modified: 5-10-2010	6.4 K	From: 200908	
Model Year: 2010	Model: 4Runner	Doc ID: RM0000047EG000X	
Title: DOOR / HATCH: HOOD LOCK CONTROL CABLE ASSEMBLY: COMPONENTS (2010 4Runner)			

COMPONENTS ILLUSTRATION

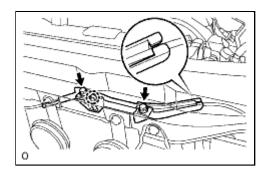


ATOYOT (#)

Last Modified: 5-10-2010	6.4 A	From: 200908	
Model Year: 2010	Model: 4Runner	Doc ID: RM000000Y55046X	
Title: DOOR / HATCH: HOOD LOCK CONTROL CABLE ASSEMBLY: REMOVAL (2010 4Runner)			

REMOVAL

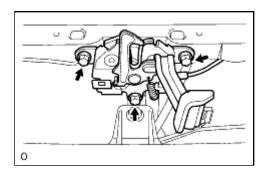
- 1. REMOVE UPPER RADIATOR SUPPORT SEAL NEO
- 2. REMOVE RADIATOR GRILLE
- 3. REMOVE RADIATOR GRILLE BRACKET
- 4. REMOVE LOW PITCHED HORN ASSEMBLY
- 5. REMOVE HIGH PITCHED HORN ASSEMBLY
- 6. REMOVE HOOD LOCK CONTROL CABLE COVER



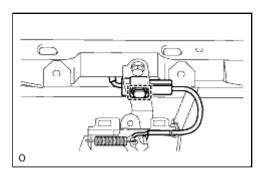
(a) Remove the 2 screws.

(b) Detach the claw and remove the hood lock control cable cover.

7. REMOVE HOOD LOCK ASSEMBLY



(a) Remove the 3 bolts.



(c) w/ Engine Hood Courtesy Switch:

Disconnect the connector.

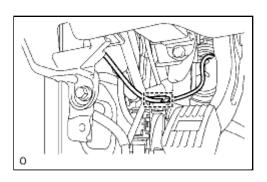
- (d) w/o Engine Hood Courtesy Switch:
 - Disconnect the connector cap.
- (e) Disconnect the hood lock control cable and remove the hood lock assembly.
- 8. REMOVE DOOR SCUFF PLATE ASSEMBLY LH



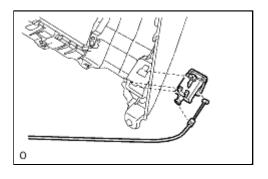
9. REMOVE COWL SIDE TRIM BOARD LH



10. REMOVE HOOD LOCK CONTROL LEVER SUB-ASSEMBLY



(a) Detach the clamp.

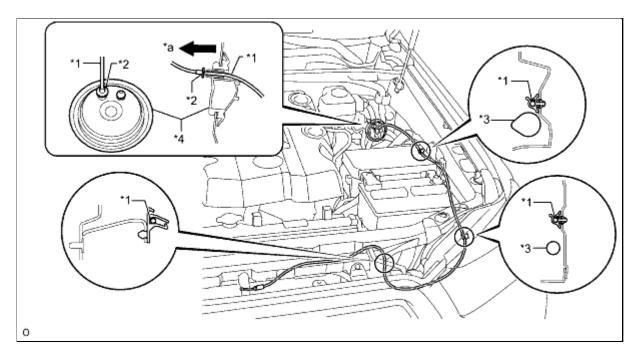


(b) Detach the 3 claws.

(c) Disconnect the hood lock control cable assembly and remove the hood lock control lever sub-assembly.

11. REMOVE HOOD LOCK CONTROL CABLE ASSEMBLY

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



Text in Illustration

*1	Hood Lock Control Cable	*2	Stopper
*3	Wire Harness	*4	Grommet
* a	Engine Room Side	-	-

HINT:

Tape the screwdriver tip before use.

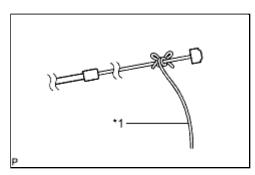
(b) Pull the hood lock control cable assembly from the engine compartment to remove it.



Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000000Y5304BX
Title: DOOR / HATCH: HOOD LOCK CONTROL CABLE ASSEMBLY: INSTALLATION (2010		
4Runner)		

INSTALLATION

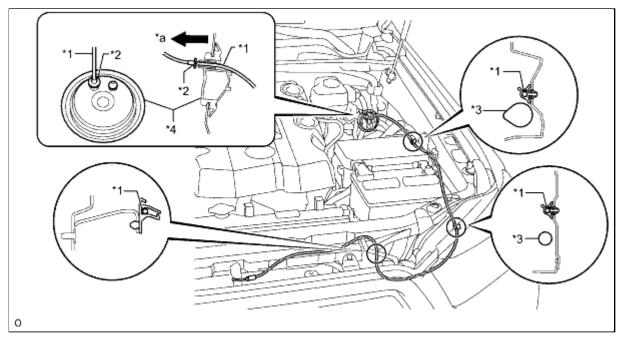
1. INSTALL HOOD LOCK CONTROL CABLE ASSEMBLY



(a) Tie the string that was passed through the engine compartment to the end of the hood lock control cable assembly as shown in the illustration.

Text in Illustration

(b) Pull the string until the hood lock control cable grommet contacts the dash panel, and then connect the clamps shown in the illustration to install the cable to the engine compartment.

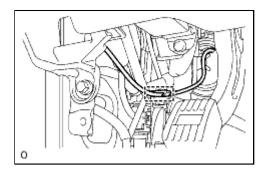


Text in Illustration

*1	Hood Lock Control Cable	*2	Stopper
*3	Wire Harness	*4	Grommet
* a	Engine Room Side	-	-

2. INSTALL HOOD LOCK CONTROL LEVER SUB-ASSEMBLY

- (a) Connect the hood lock control cable assembly.
- (b) Attach the 3 claws to install the hood lock control lever sub-assembly.



(c) Attach the clamp.

3. INSTALL COWL SIDE TRIM BOARD LH



4. INSTALL DOOR SCUFF PLATE ASSEMBLY LH



5. INSTALL HOOD LOCK ASSEMBLY

- (a) Apply MP grease to the sliding areas of the lock.
- (b) Connect the hood lock control cable assembly.
- (c) w/ Engine Hood Courtesy Switch:

Connect the connector.

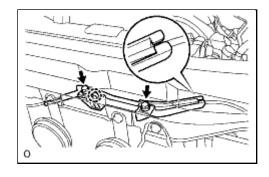
(d) w/o Engine Hood Courtesy Switch:

Connect the connector cap.

(e) Install the hood lock assembly with the 3 bolts.

Torque: 7.5 N·m (76 kgf·cm, 66in·lbf)

6. INSTALL HOOD LOCK CONTROL CABLE COVER



(a) Pass the hood lock control cable assembly through the hood lock control cable cover.

- (b) Attach the claw to install the hood lock control cable cover.
- (c) Install the 2 screws.

7. INSTALL LOW PITCHED HORN ASSEMBLY NEO

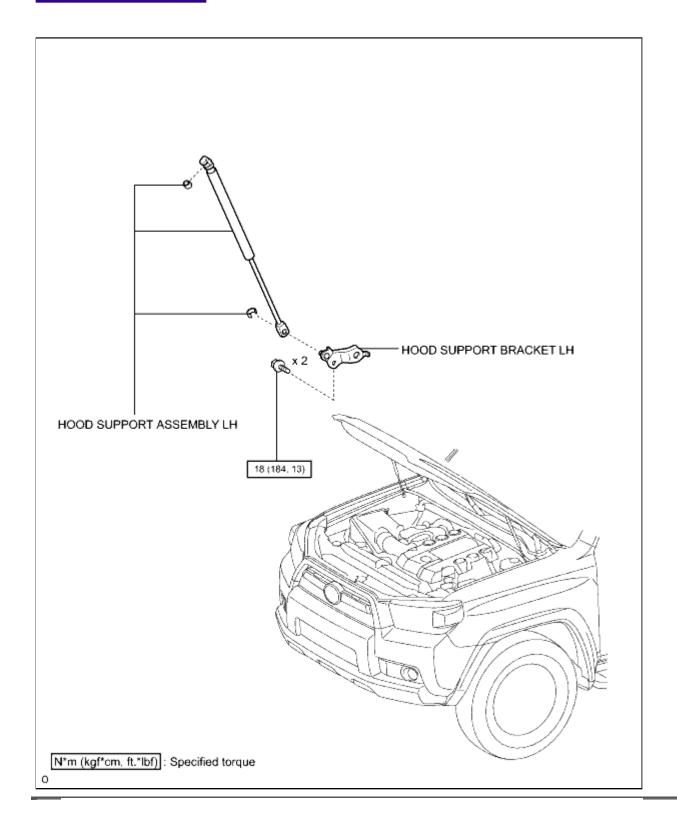
- 8. INSTALL HIGH PITCHED HORN ASSEMBLY
- 9. INSTALL RADIATOR GRILLE BRACKET
- 10. INSTALL RADIATOR GRILLE
- 11. INSTALL UPPER RADIATOR SUPPORT SEAL NFO





Last Modified: 5-10-2010	6.4 K	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000047EF000X
Title: DOOR / HATCH: HOOD SUPPORT: COMPONENTS (2010 4Runner)		

COMPONENTS



Last Modified: 5-10-2010	6.4 A	From: 200908	
Model Year: 2010	Model: 4Runner	Doc ID: RM000000XCO010X	
Title: DOOR / HATCH: HOOD SUPPORT: REMOVAL (2010 4Runner)			

REMOVAL

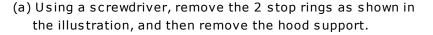
HINT:

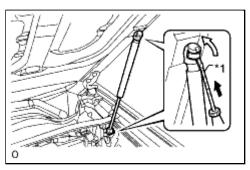
- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

1. REMOVE HOOD SUPPORT ASSEMBLY LH

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 the vehicle.
- 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 stay.





Text in Illustration

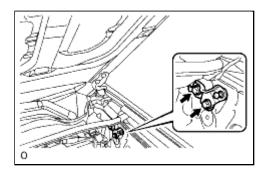
r lotective rape	* 1	Protective Tape
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NOTICE:

HINT:

Tape the screwdriver tip before use.

2. REMOVE HOOD SUPPORT BRACKET LH



(a) Remove the 2 bolts and hood support bracket.

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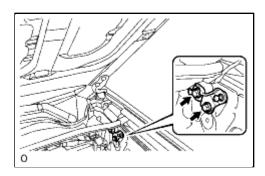
Last Modified: 5-10-2010	6.4 A	From: 200908	
Model Year: 2010	Model: 4Runner	Doc ID: RM000000XCM01PX	
Title: DOOR / HATCH: HOOD SUPPORT: INSTALLATION (2010 4Runner)			

INSTALLATION

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

1. INSTALL HOOD SUPPORT BRACKET LH



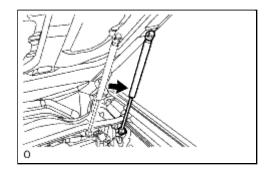
(a) Install the hood support bracket with the 2 bolts.

Torque: 18 N·m (184 kgf·cm, 13ft·lbf)

2. INSTALL HOOD SUPPORT ASSEMBLY LH

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 the vehicle.
- 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 stay.



(a) Install a new hood support assembly.

NOTICE:

Install a new hood support assembly while supporting the hood by hand.

(b) Check that the hood support assembly is attached to the ball joint and it cannot be pulled out.

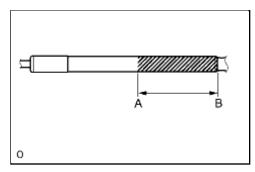
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Last Modified: 5-10-2010	6.4 N	From: 200908	
Model Year: 2010	Model: 4Runner	Doc ID: RM000000XCL01JX	
Title: DOOR / HATCH: HOOD SUPPORT: DISPOSAL (2010 4Runner)			

DISPOSAL

1. DISPOSE OF HOOD SUPPORT ASSEMBLY

(a) Horizontally hold the hood support in a vise with the piston rod pulled out.



(b) Wear safety glasses. Gradually cut any area between A and B shown in the illustration using a metal saw to release the gas.

Standard:

AREA	MEASUREMENT
A - B	50 mm (1.97 in.)

CAUTION:

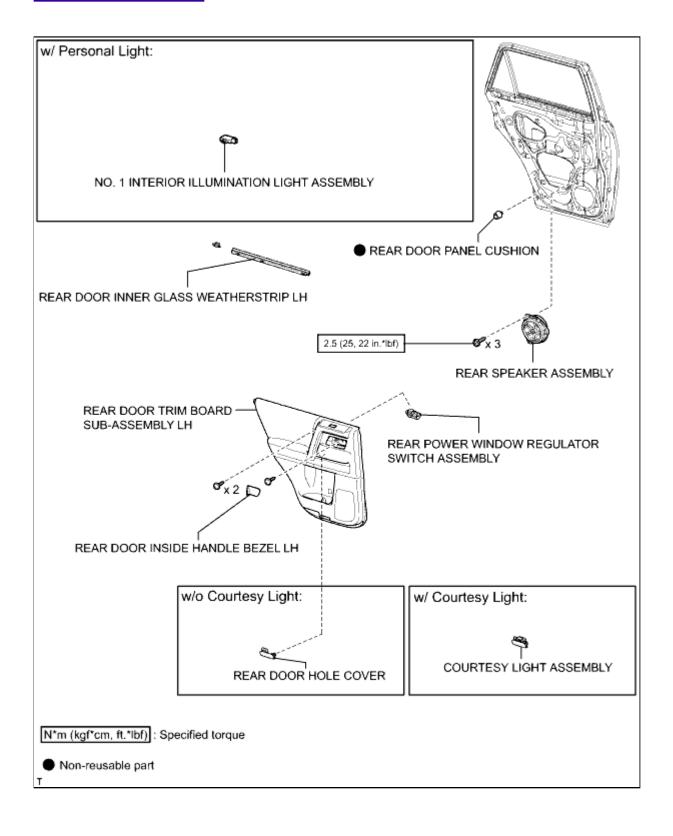
Although the gas inside the hood support is colorless, odorless and harmless, there is a possibility that metal debris could scatter. Therefore, cover it with a piece of cloth or other material.



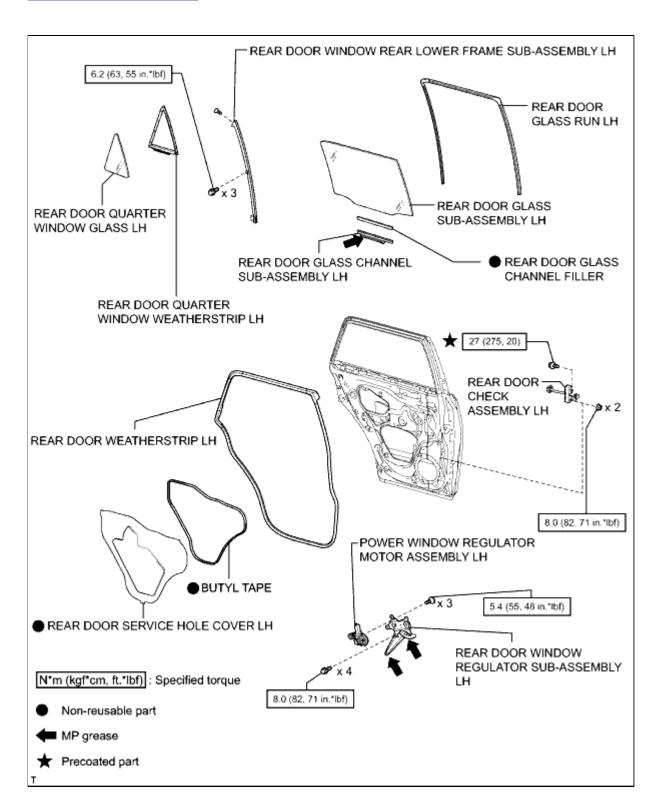


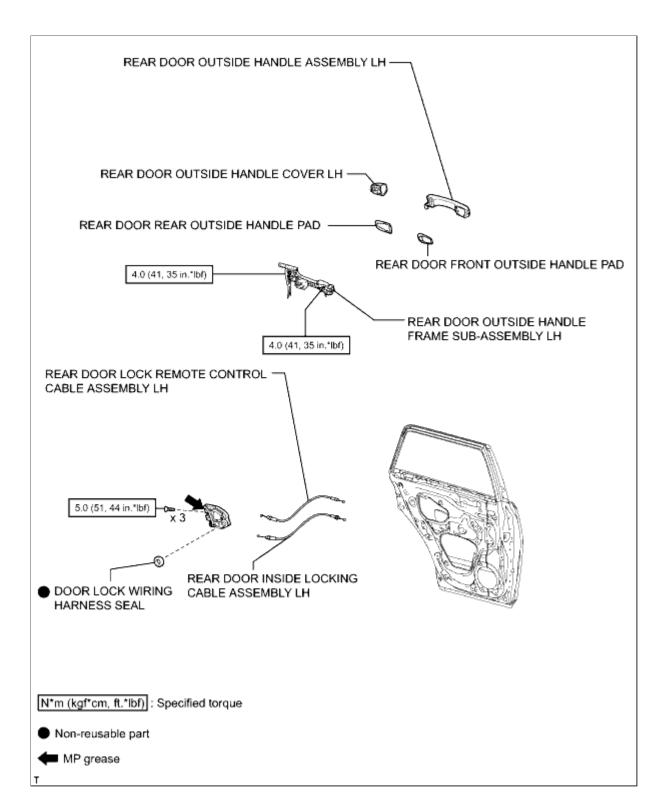
Last Modified: 5-10-2010	6.4 K	From: 200908	
Model Year: 2010	Model: 4Runner	Doc ID: RM0000047EI000X	
Title: DOOR / HATCH: REAR DOOR: COMPONENTS (2010 4Runner)			

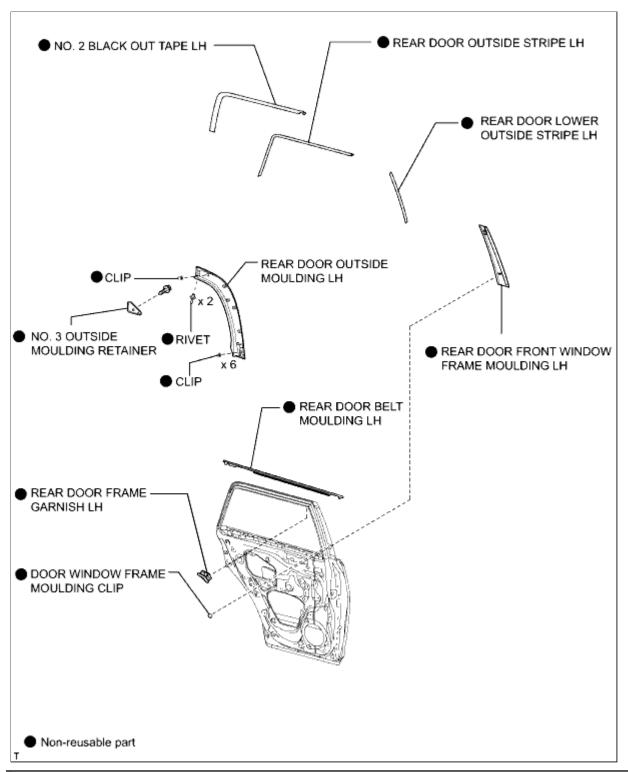
COMPONENTS



ILLUSTRATION







ATOYOT (#)

Last Modified: 5-10-2010	6.4 A	From: 200908	
Model Year: 2010	Model: 4Runner	Doc ID: RM0000011RX02JX	
Title: DOOR / HATCH: REAR DOOR: DISASSEMBLY (2010 4Runner)			

DISASSEMBLY

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.

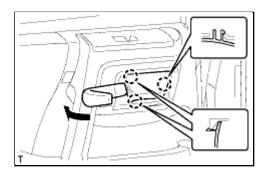
1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected

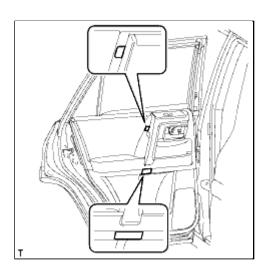


2. REMOVE REAR DOOR INSIDE HANDLE BEZEL LH

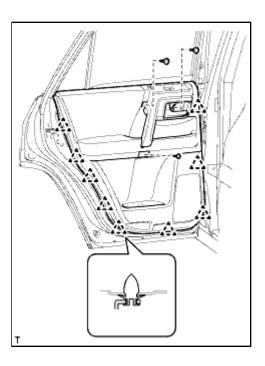


(a) Using moulding remover A, detach the 3 claws and remove the rear door inside handle bezel as shown in the illustration.

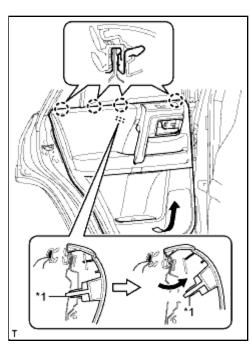
3. REMOVE REAR DOOR TRIM BOARD SUB-ASSEMBLY LH



(a) Detach the 4 claws and 2 door armrest caps.



(c) Remove the 9 clips.

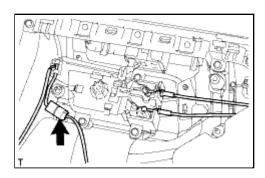


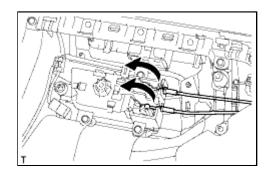
(d) Pull out the rear door trim board sub-assembly in the direction indicated by the arrow as shown in the illustration.

Text in Illustration

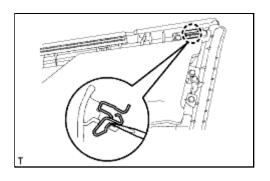
*1 Reference Boss

- (e) Raise the rear door trim board sub-assembly to detach the 4 claws and remove the rear door trim board sub-assembly together with the rear door inner glass weatherstrip.
 - (f) Disconnect the connector.





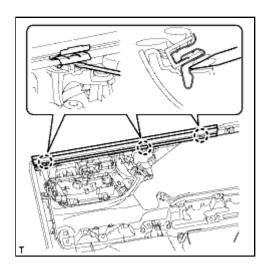
(g) Disconnect the rear door lock remote control cable assembly and rear door inside locking cable assembly as shown in the illustration.



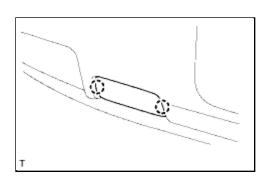
(h) Using a screwdriver, detach the claw and remove the clamp.

4. REMOVE REAR DOOR INNER GLASS WEATHERSTRIP LH

(a) Using a screwdriver, detach the 3 claws and remove the rear door inner glass weatherstrip from the rear door trim board sub-assembly as shown in the illustration.

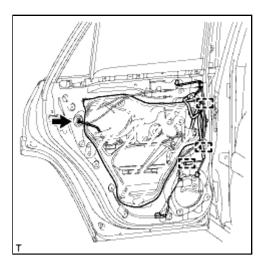


- 5. REMOVE REAR POWER WINDOW REGULATOR SWITCH ASSEMBLY
- 6. REMOVE COURTESY LIGHT ASSEMBLY (w/ Courtesy Light)
- 7. REMOVE REAR DOOR HOLE COVER (w/o Courtesy Light)



(a) Detach the 2 claws and remove the rear door hole cover.

- 8. REMOVE NO. 1 INTERIOR ILLUMINATION LIGHT ASSEMBLY (w/ Personal Light)
- 9. REMOVE REAR SPEAKER ASSEMBLY
- 10. REMOVE REAR DOOR SERVICE HOLE COVER LH

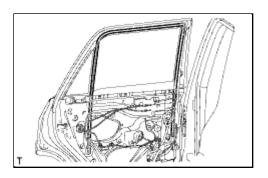


(b) Detach the 3 clamps, move the wire harness out of the way and remove the service hole cover.

HINT:

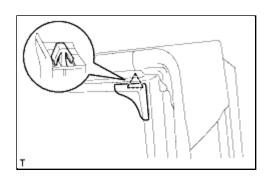
Remove any remaining butyl tape from the door.

11. REMOVE REAR DOOR GLASS RUN LH



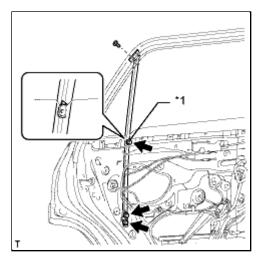
(a) Remove the rear door glass run.

12. REMOVE REAR DOOR FRAME GARNISH LH



(a) Detach the clip and remove the rear door frame garnish.

13. REMOVE REAR DOOR WINDOW REAR LOWER FRAME SUB-ASSEMBLY LH



(a) Loosen the temporary bolt.

Text in Illustration

*1 Temporary Bolt

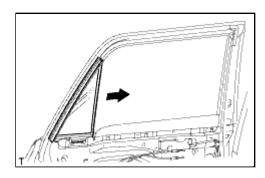
- (b) Remove the 2 bolts and screw.
- (c) Remove the rear door window rear lower frame sub-assembly.

NOTICE:

When the rear door window rear lower frame sub-assembly is removed, do not allow the rear door quarter window glass to fall.

(d) Remove the temporary bolt from the rear door window rear lower frame sub-assembly.

14. REMOVE REAR DOOR QUARTER WINDOW GLASS LH



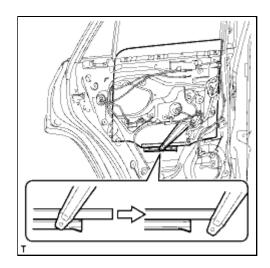
(a) Remove the rear door quarter window glass and rear door quarter window weatherstrip as a unit as shown in the illustration.

15. REMOVE REAR DOOR QUARTER WINDOW WEATHERSTRIP LH

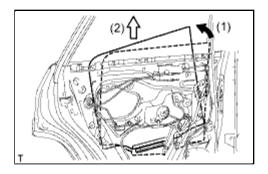
(a) Remove the rear door quarter window weatherstrip from the rear door quarter window glass.

16. REMOVE REAR DOOR GLASS SUB-ASSEMBLY LH

- (a) Connect the cable to the negative (-) battery terminal and the rear power window regulator motor connector.
- (b) Connect the power window regulator switch assembly and move the arm of the regulator so that the roller on the arm can be seen through the service hole.
- (c) Disconnect the power window regulator switch assembly and rear power window regulator motor connector.
- (d) Disconnect the cable from the negative (-) battery terminal.



(e) Remove the rear door glass sub-assembly from the rear door window regulator sub-assembly as shown in the illustration.



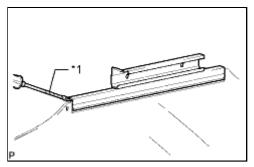
(f) Remove the rear door glass sub-assembly as indicated by the arrows in the order shown in the illustration.

NOTICE:

Do not damage the door glass.

17. REMOVE REAR DOOR GLASS CHANNEL SUB-ASSEMBLY LH

(a) Using a screwdriver, remove the rear door glass channel sub-assembly.



Text in Illustration

* 1 Protective Tape

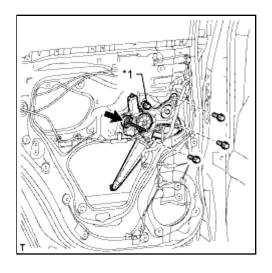
HINT:

Tape the screwdriver tip before use.

18. REMOVE REAR DOOR GLASS CHANNEL FILLER

(a) Remove the rear door glass channel filler.

19. REMOVE REAR DOOR WINDOW REGULATOR SUB-ASSEMBLY LH



(a) Disconnect the connector.

(b) Loosen the temporary bolt.

Text in Illustration

* 1 Temporary Bolt

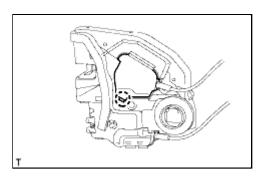
NOTICE:

Do not remove the temporary bolt. If the temporary bolt is removed, the rear door window regulator may fall and cause damage.

- (c) Remove the 3 bolts.
- (d) Remove the rear door window regulator sub-assembly.
- (e) Remove the temporary bolt from the rear door window regulator sub-assembly.
- 20. REMOVE REAR POWER WINDOW REGULATOR MOTOR ASSEMBLY LH



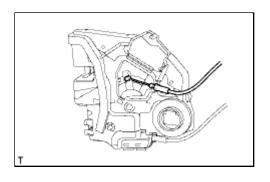
- 21. REMOVE REAR DOOR LOCK ASSEMBLY LH
- 22. REMOVE REAR DOOR LOCK REMOTE CONTROL CABLE ASSEMBLY LH



(a) Using a screwdriver, detach the claw.

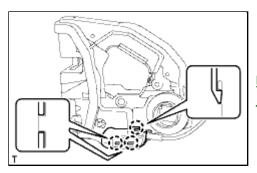
HINT:

Tape the screwdriver tip before use.



(b) Remove the rear door lock remote control cable assembly.

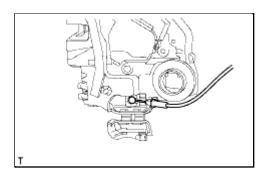
23. REMOVE REAR DOOR INSIDE LOCKING CABLE ASSEMBLY LH



(a) Using a screwdriver, detach the 3 claws.

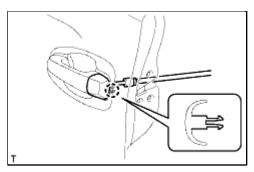
HINT:

Tape the screwdriver tip before use.



(b) Remove the rear door inside locking cable assembly.

24. REMOVE REAR DOOR OUTSIDE HANDLE COVER LH



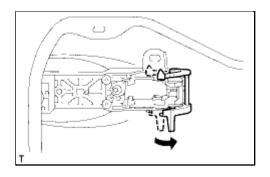
(a) Using a T30 "TORX" socket wrench, loosen the screw.

HINT:

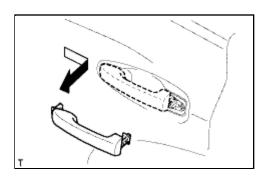
The screw cannot be removed because it is integrated into the rear door outside handle frame sub-assembly.

(b) Detach the claw and remove the rear door outside handle cover.

25. REMOVE REAR DOOR OUTSIDE HANDLE ASSEMBLY LH

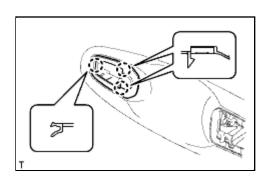


(a) Move the lever in the direction indicated by the arrow in the illustration.



(b) Remove the rear door outside handle assembly as shown in the illustration.

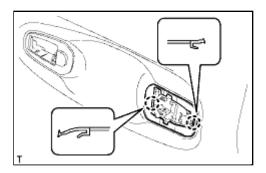
26. REMOVE REAR DOOR FRONT OUTSIDE HANDLE PAD



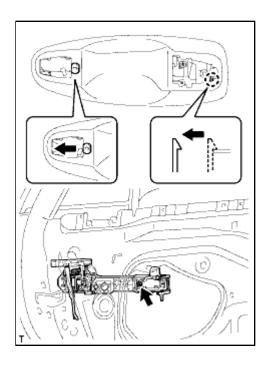
(a) Detach the 3 claws and remove the rear door outside handle pad.

27. REMOVE REAR DOOR REAR OUTSIDE HANDLE PAD

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



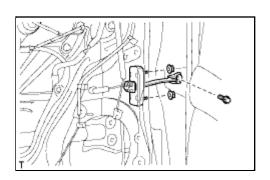
28. REMOVE REAR DOOR OUTSIDE HANDLE FRAME SUB-ASSEMBLY LH



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

(b) Slide the rear door outside handle frame sub-assembly to detach the door handle nut and claw of the rear door outside handle frame sub-assembly. Then remove the rear door outside handle frame.

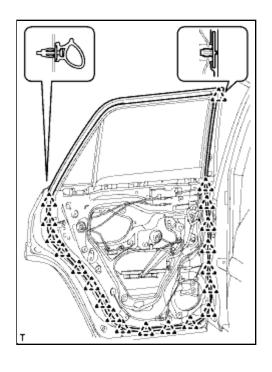
29. REMOVE REAR DOOR CHECK ASSEMBLY LH



(a) Remove the bolt, 2 nuts and rear door check assembly.

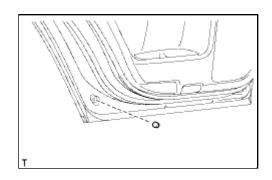
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30. REMOVE REAR DOOR WEATHERSTRIP LH



(a) Using a clip remover, detach the 20 clips and remove the front door weatherstrip.

- 31. REMOVE REAR DOOR BELT MOULDING LH
- 32. REMOVE REAR DOOR FRONT WINDOW FRAME MOULDING LH
- 33. REMOVE NO. 2 BLACK OUT TAPE LH
- 34. REMOVE REAR DOOR LOWER OUTSIDE STRIPE LH
- 35. REMOVE REAR DOOR OUTSIDE STRIPE LH
- 36. REMOVE REAR DOOR PANEL CUSHION



(a) Using a clip remover, detach the clip and remove the door panel cushion.

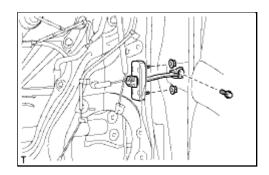
- 37. REMOVE REAR DOOR OUTSIDE MOULDING LH
- 38. REMOVE NO. 3 OUTSIDE MOULDING RETAINER

Last Modified: 5-10-2010	6.4 A	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM0000011RY02JX
Title: DOOR / HATCH: REAR DOOR: REASSEMBLY (2010 4Runner)		

REASSEMBLY

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure listed below is for the LH side.
- 1. INSTALL NO. 3 OUTSIDE MOULDING RETAINER
- 2. INSTALL REAR DOOR OUTSIDE MOULDING LH
- 3. INSTALL REAR DOOR OUTSIDE STRIPE LH
- 4. INSTALL REAR DOOR LOWER OUTSIDE STRIPE LH
- 5. INSTALL NO. 2 BLACK OUT TAPE LH
- 6. INSTALL REAR DOOR FRONT WINDOW FRAME MOULDING LH
- 7. INSTALL REAR DOOR BELT MOULDING LH
- 8. INSTALL REAR DOOR PANEL CUSHION
 - (a) Attach the claw to install a new door panel cushion.
- 9. INSTALL REAR DOOR WEATHERSTRIP LH
 - (a) Attach the 20 clips to install the rear door weatherstrip.
- 10. INSTALL REAR DOOR CHECK ASSEMBLY LH
 - (a) Apply MP grease to the sliding areas of the rear door check assembly.



(b) Install the door check to the door panel with the 2 nuts.

Torque: 8.0 N·m (82 kgf·cm, 71in·lbf)

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

Adhesive:

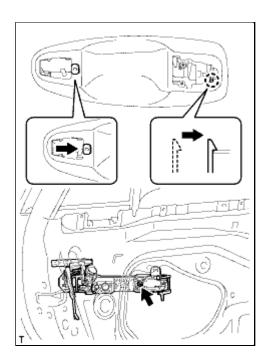
Toyota Genuine Adhesive 1324, Three Bond 1324 or equivalent

(d) Install the door check to the body panel with the bolt.

Torque: 27 N·m (275 kgf·cm, 20ft·lbf)

11. INSTALL REAR DOOR OUTSIDE HANDLE FRAME SUB-ASSEMBLY LH

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



(b) Attach the door handle nut and claw.

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

Torque: 4.0 N·m (41 kgf·cm, 35in·lbf)

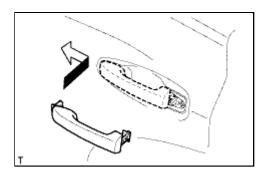
12. INSTALL REAR DOOR REAR OUTSIDE HANDLE PAD

(a) Attach the 2 claws to install the rear door rear outside handle pad.

13. INSTALL REAR DOOR FRONT OUTSIDE HANDLE PAD

(a) Attach the 3 claws to install the rear door front outside handle pad.

14. INSTALL REAR DOOR OUTSIDE HANDLE ASSEMBLY LH

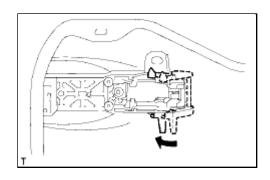


(a) Insert the front end of the rear door outside handle assembly into the rear door outside handle frame.

NOTICE:

If the bellcrank lever is not pulled and held when installing the outside handle, the bellcrank lever will interfere with the outside handle and the release plate will be damaged.

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



(c) Move the lever back in the direction indicated by the arrow in the illustration to lock the door outside handle assembly.

15. INSTALL REAR DOOR OUTSIDE HANDLE COVER LH

- (a) Attach the claw to install the rear door outside handle cover.
- (b) Using a T30 "TORX" socket wrench, install the screw.

Torque: 4.0 N·m (41 kgf·cm, 35in·lbf)

16. INSTALL REAR DOOR INSIDE LOCKING CABLE ASSEMBLY LH

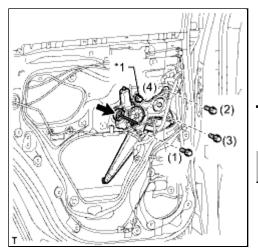
- (a) Install the rear door inside locking cable assembly.
- (b) Attach the 3 claws.

17. INSTALL REAR DOOR LOCK REMOTE CONTROL CABLE ASSEMBLY LH

- (a) Install the rear door lock remote control cable assembly.
- (b) Attach the claw.
- 18. INSTALL REAR DOOR LOCK ASSEMBLY LH
- 19. INSTALL POWER WINDOW REGULATOR MOTOR ASSEMBLY LH

20. INSTALL REAR DOOR WINDOW REGULATOR SUB-ASSEMBLY LH

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



(c) Temporarily install the rear door window regulator assembly.

Text in Illustration

*1 Temporary Bolt

(d) Tighten the temporary bolt and 3 bolts to install the rear door window regulator assembly.

HINT:

Tighten the bolts in the order shown in the illustration.

Torque: 8.0 N·m (82 kgf·cm, 71in·lbf)

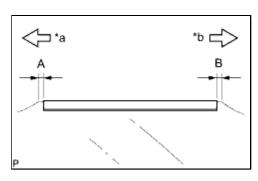
(e) Connect the connector.

21. INSTALL REAR DOOR GLASS CHANNEL FILLER

(a) Apply soapy water to a new rear door glass channel filler.

(b) Install the rear door glass channel filler to the position shown in the illustration.

Text in Illustration



*a	Front Side
* b	Rear Side

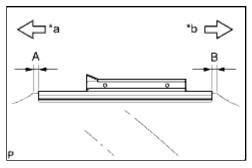
Standard

AREA	SPECIFIED CONDITION	
А	6.8 mm (0.268 in.)	
В	6.7 mm (0.264 in.)	

22. INSTALL REAR DOOR GLASS CHANNEL SUB-ASSEMBLY LH

(a) Apply soapy water to the channel filler side of the rear door glass channel sub-assembly.

(b) Using a plastic-faced hammer, install the rear door glass channel sub-assembly to the position shown in the illustration.



Text in Illustration

* a	Front Side
* b	Rear Side

Standard

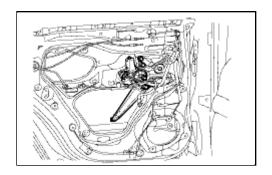
AREA	SPECIFIED CONDITION	
А	6.8 mm (0.268 in.)	
В	6.7 mm (0.264 in.)	

NOTICE:

To prevent damaging the rear door glass sub-assembly, be careful not to strike the channel with too much force.

23. INSTALL REAR DOOR GLASS SUB-ASSEMBLY

- (a) Temporarily install the regulator switch assembly.
- (b) Connect the cable to the negative (-) battery terminal and the rear power window regulator motor connector.



(c) O perate the regulator switch until the regulator reaches bottom dead center.

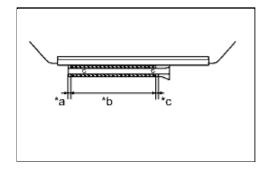
- (d) Disconnect the power window regulator switch assembly and rear power window regulator motor connector.
- (e) Disconnect the cable from the negative (-) battery terminal.

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected

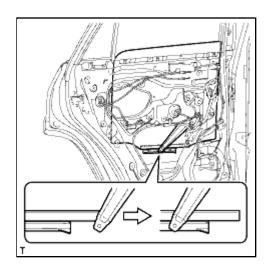


- (f) Remove the regulator switch assembly.
- (g) Install the front side of the glass run.
- (h) Apply MP grease to the sliding areas of the glass channel as shown in the illustration.



Text in Illustration

*a	5.0 mm (0.197 in.)
* b	157 mm (6.181 in.)
*c	5.0 mm (0.197 in.)
	MP grease

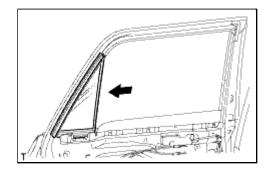


(i) Slide the rear door glass sub-assembly as shown in the illustration to install it.

24. INSTALL REAR DOOR QUARTER WINDOW WEATHERSTRIP LH

(a) Install the rear door quarter window weatherstrip to the rear door quarter window glass.

25. INSTALL REAR DOOR QUARTER WINDOW GLASS LH



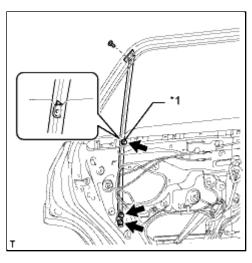
(a) Install the rear door quarter window glass together with the rear door quarter window weatherstrip in the direction indicated by the arrow in the illustration.

26. INSTALL REAR DOOR FRAME GARNISH LH

(a) Attach the clip to install a new door frame garnish.

27. INSTALL REAR DOOR WINDOW REAR LOWER FRAME SUB-ASSEMBLY LH

- (a) Insert the rear door window rear lower frame sub-assembly from above.
- (b) Install the rear door window rear lower frame sub-assembly to the glass run.



(c) Install the temporary bolt to the rear door window rear lower frame sub-assembly.

Text in Illustration

*1 Temporary Bolt

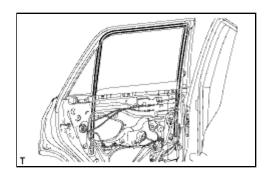
- (d) Install the rear door window rear lower frame sub-assembly to the glass run.
- (e) Install the rear door window rear lower frame sub-assembly.
- (f) Install the screw.
- (g) Install the 2 bolts.

Torque: 6.2 N·m (63 kgf·cm, 55in·lbf)

(h) Tighten the temporary bolt to install the rear door window rear guide sub-assembly.

Torque: 6.2 N·m (63 kgf·cm, 55in·lbf)

28. INSTALL REAR DOOR GLASS RUN LH

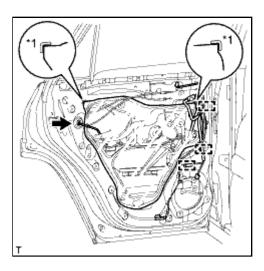


(a) Install the glass run.

29. INSTALL REAR DOOR SERVICE HOLE COVER LH

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

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



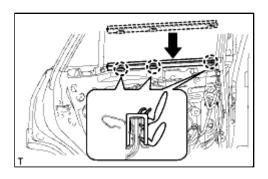
(c) Install the rear door service hole cover according to the reference points on the rear door panel.

Text in Illustration

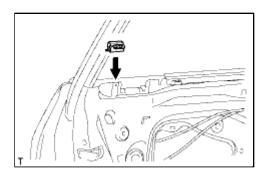
*1 Reference Point

NOTICE:

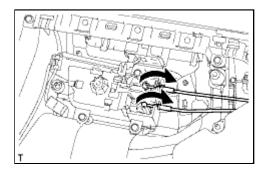
- There should be no wrinkles or folds when installing attaching the service hole cover.
- After installing the service hole cover, check the seal quality.
- (d) Connect the connector.
- (e) Attach the 3 clamps to the rear door wire.
- 30. INSTALL REAR SPEAKER ASSEMBLY
- 31. INSTALL NO. 1 INTERIOR ILLUMINATION LIGHT ASSEMBLY (w/ Personal Light)
- 32. INSTALL COURTESY LIGHT ASSEMBLY (w/ Courtesy Light)
- 33. INSTALL REAR DOOR HOLE COVER
 - (a) Attach the 2 claws to install the rear door hole cover.
- 34. INSTALL REAR POWER WINDOW REGULATOR SWITCH ASSEMBLY
- 35. INSTALL REAR DOOR INNER GLASS WEATHERSTRIP LH
 - (a) Attach the 3 claws to install the rear door inner glass weatherstrip as shown in the illustration.



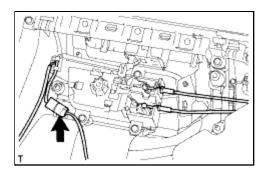
36. INSTALL REAR DOOR TRIM BOARD SUB-ASSEMBLY LH



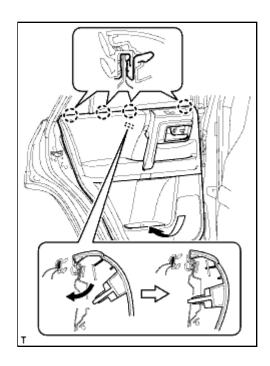
(a) Install the clamp to the door panel.



(b) Connect the rear door lock remote control cable assembly and rear door inside locking cable assembly.



(c) Connect the connector.



claws of the rear door inner glass weatherstrip as shown in the illustration.

- (e) Attach the 9 clips to install the rear door trim board sub-assembly.
- (f) Install the 3 screws.
- (g) Attach the 4 claws to install the 2 hole covers.

37. INSTALL REAR DOOR INSIDE HANDLE BEZEL LH

(a) Attach the 3 claws to install the door inside handle bezel.

38. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



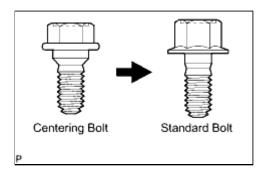
39. INITIALIZE POWER WINDOW CONTROL SYSTEM

(a) Initialize the power window control system



Last Modified: 5-10-2010	6.4 N	From: 200908
Model Year: 2010	Model: 4Runner	Doc ID: RM000000XBJ03AX
Title: DOOR / HATCH: REAR DOOR: ADJUSTMENT (2010 4Runner)		

ADJUSTMENT

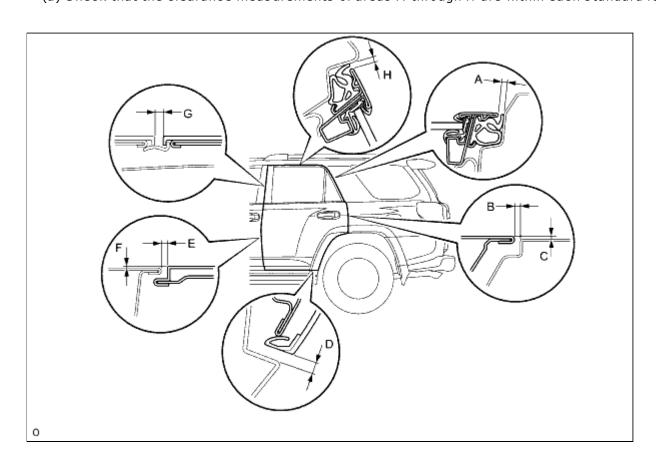


HINT:

- Centering bolts are used to mount the door hinge to the vehicle body and door. The door cannot be adjusted with the centering bolts installed. Substitute the centering bolts with standard bolts when making adjustments.

1. INSPECT REAR DOOR

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



Standard:

AREA	MEASUREMENT	AREA	MEASUREMENT
А	3.6 to 6.6 mm (0.142 to 0.260 in.)	В	2.7 to 5.7 mm (0.106 to 0.224 in.)
С	-1.5 to 1.5 mm (-0.0591 to 0.0591 in.)	D	5.35 to 8.35 mm (0.211 to 0.335 in.)
Е	3.0 to 6.0 mm (0.118 to 0.236 in.)	F	-1.5 to 1.5 mm (-0.0591 to 0.0591 in.)
G	3.4 to 6.4 mm (0.134 to 0.252 in.)	Н	3.9 to 6.9 mm (0.154 to 0.272 in.)

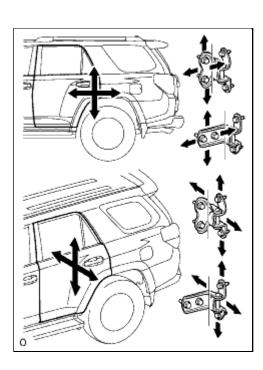
2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



3. ADJUST REAR DOOR



(a) Using SST, loosen the hinge bolts on the vehicle body and adjust the door position.

SST: 09812-00010

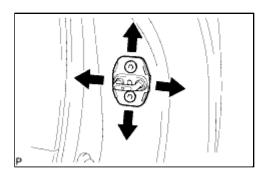
(b) Tighten the hinge bolts on the vehicle body after the adjustment.

Torque: 26 N·m (265 kgf·cm, 19ft·lbf)

- (c) Loosen the hinge bolts on the door and adjust the door position.
- (d) Tighten the hinge bolts on the door after the adjustment.

Torque: 27 N·m (275 kgf·cm, 20ft·lbf)

(e) Using a T40 "TORX" socket wrench, slightly loosen the striker mounting screws.



- (f) Using a brass bar and hammer, hit the striker to adjust its position.
- (g) Using a T40 "TORX" socket wrench, tighten the striker mounting screws after the adjustment.

Torque: 23 N·m (235 kgf·cm, 17ft·lbf)

4. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected



5. INSPECT SRS WARNING LIGHT





