SERVICE BULLETIN

Classification:	Reference:	Date:
BT19-012	NTB19-061	August 1, 2019

2010-2019 370Z; CONVERTIBLE SOFT TOP RUBS ON STORAGE LID WHEN OPENING/CLOSING

APPLIED VEHICLES: 2010-2019 370Z Roadster (Z34)

IF YOU CONFIRM

The convertible soft top rubs on the storage lid when opening or closing.

ACTION

Install the 5th bow bungee kit.

- See page 30 for a complete list of what is included in the 5th bow bungee kit.

IMPORTANT: The purpose of ACTION (above) is to give you a quick idea of the work you will be performing. You MUST closely follow the entire SERVICE PROCEDURE as it contains information that is essential to successfully completing this repair.

SERVICE PROCEDURE

HINT: Work on one side of the soft top at a time.

- View of service procedure is from driver's side. Passenger side is similar.

Refer to the Electronic Service Manual (ESM) for more detail on soft top disassembly: **REPAIR > BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY > ROOF > REMOVAL AND INSTALLATION > ROOF SEALING**.

1. Detach the front side of the rear rail weather strip from the window frame rail.
   - Open the soft top halfway to help with detachment.

Figure 1

2. Undip the single use dip shown in Figure 2.
   - This dip will be replaced later in this procedure.

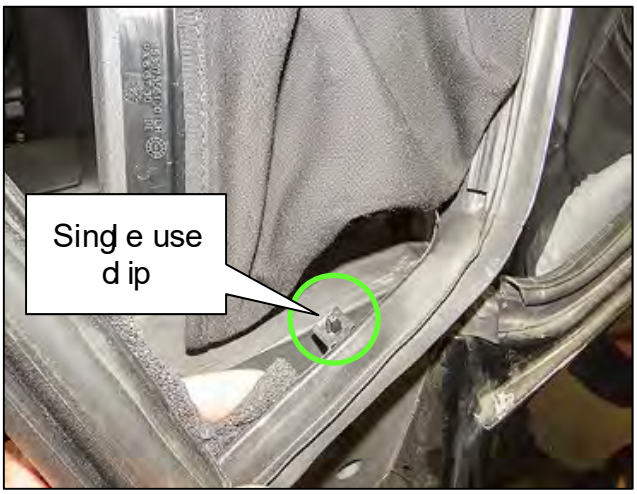


Figure 2

3. Detach the back side of the rear rail weather strip from the 5th bow.

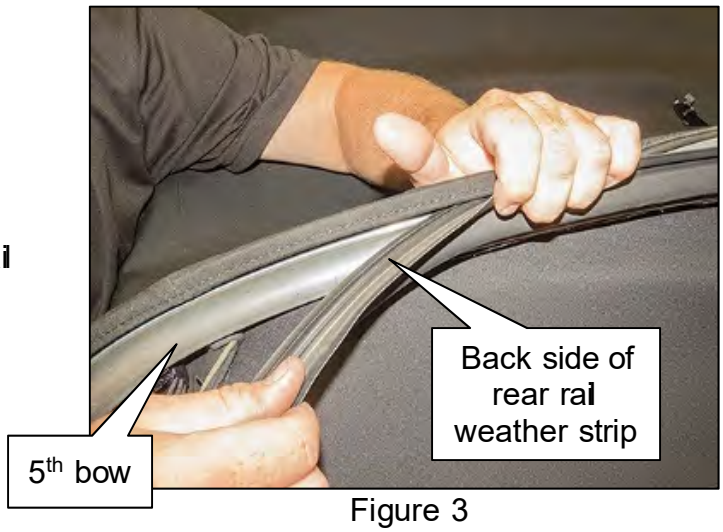


Figure 3

4. Detach the edge of the soft top cover from the inside edge of the 5th bow.

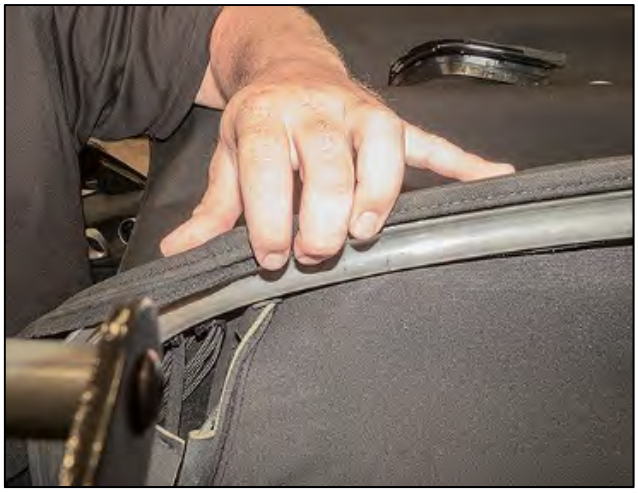


Figure 4

5. Remove the three (3) TORX® T20 screws that retain the rear rail weather-strip inner retainer, and then remove it.

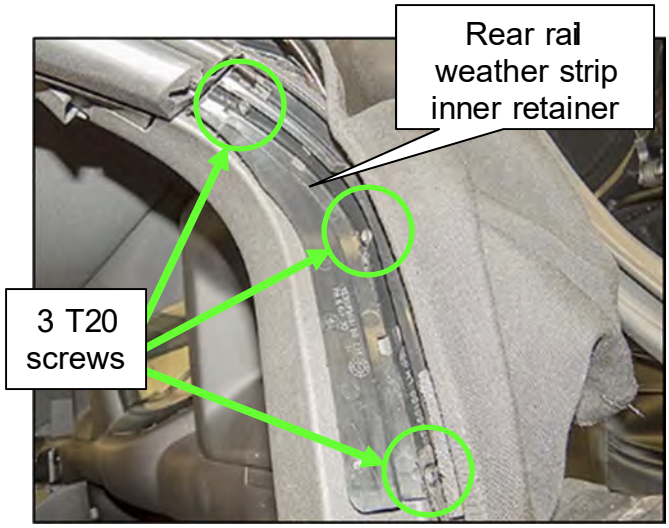


Figure 5

6. Detach the soft top cover retainer from the front side of the B-pillar.
   - The soft top cover retainer is attached with double sided tape.

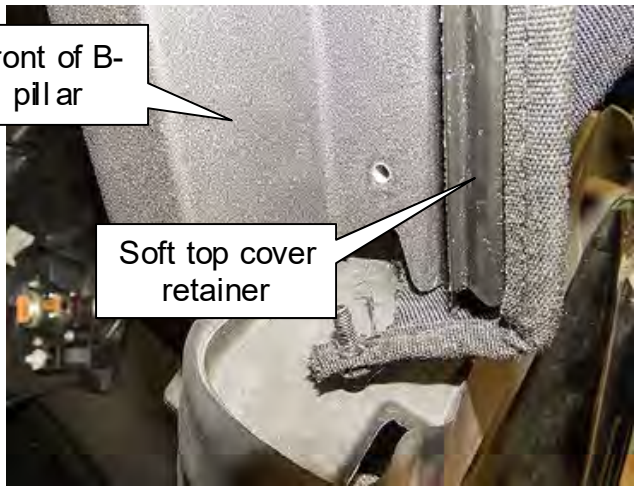


Figure 6

7. Detach the soft top cover extension plate from the linkage assembly by sliding it rearward.

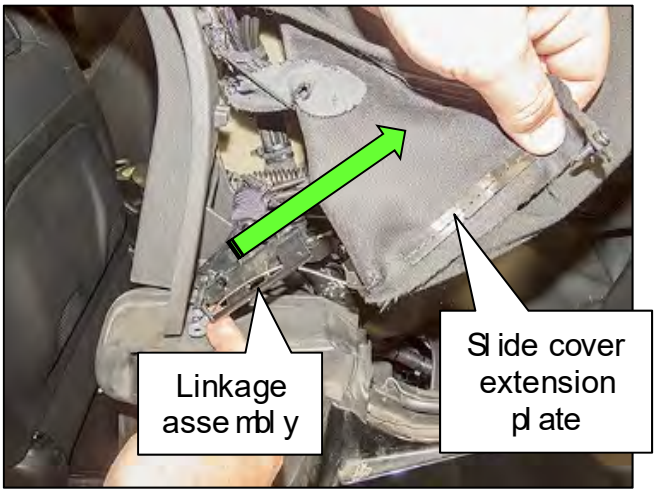


Figure 7

8. Remove the E-Clip and the soft top cover outer wire.

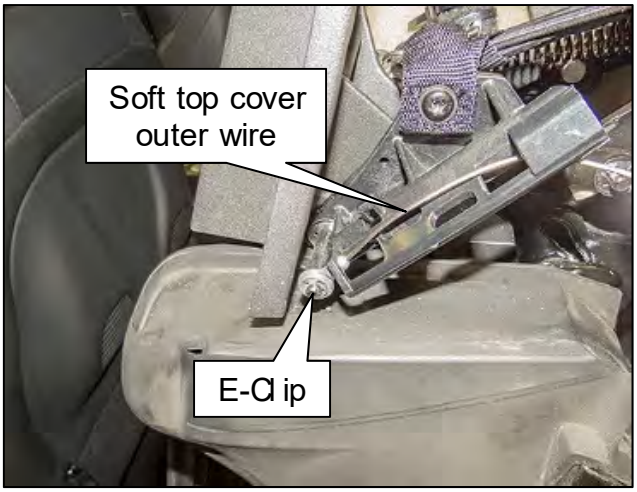


Figure 8

There are three different 5th bow bungee styles for the applied vehicles. Refer to Figure 9 and Figure 10 and confirm which style is being updated (Style C not shown).

9. Confirm which soft top style is being updated.

Style A: Vehicles built in April 2015 or earlier, proceed to step 10 on the next page.

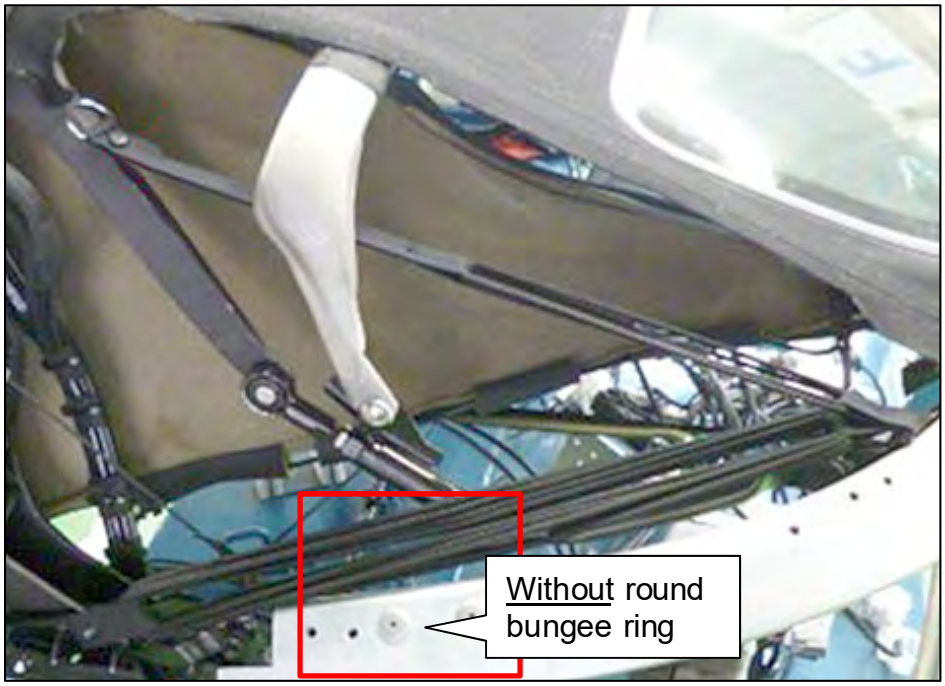


Figure 9

Style B: Vehicles built in May 2015 or later, proceed to step 18 on page 9.

Style C: Vehicles built in June 2017 or later with rectangular bungee ring (not shown), skip to step 26 on page 12.

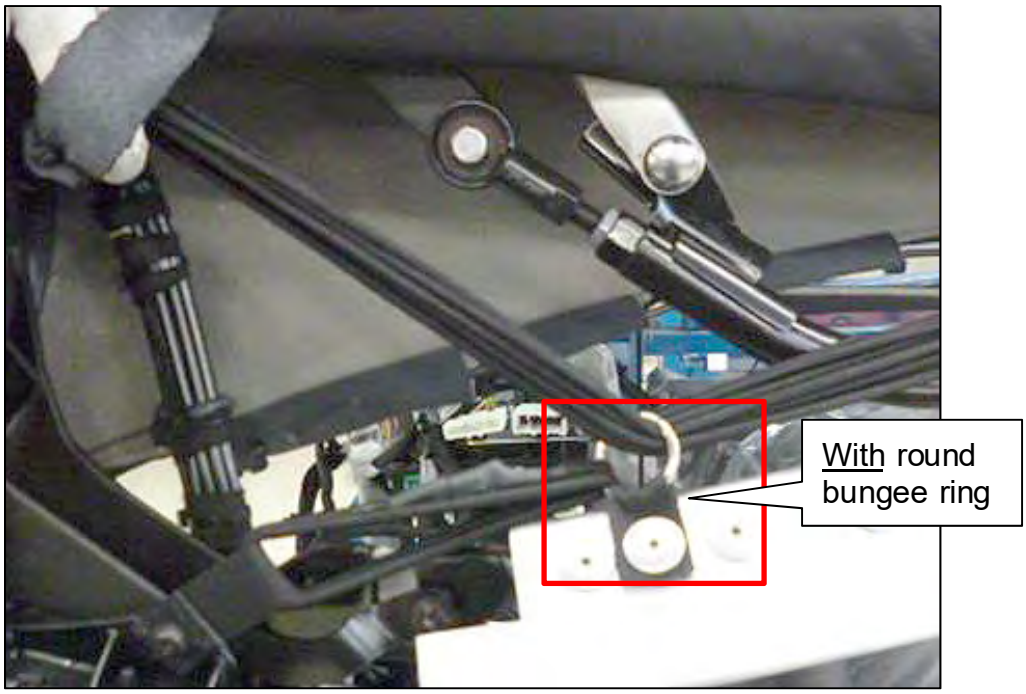


Figure 10

Style A: Steps 10-17 are for vehicles with Style A 5th bow bungee. Vehicles built in April 2015 or earlier.

10. Cut through the bungees where indicated in Figure 11 with an appropriate tool.

11. Remove and discard the bungee pieces that were cut through.

12. Remove the TORX screw indicated in Figure 11 that retains the bungee strap, and place the screw aside.
    - Discard the strap.

    HINT: This screw will be reused in step 16.

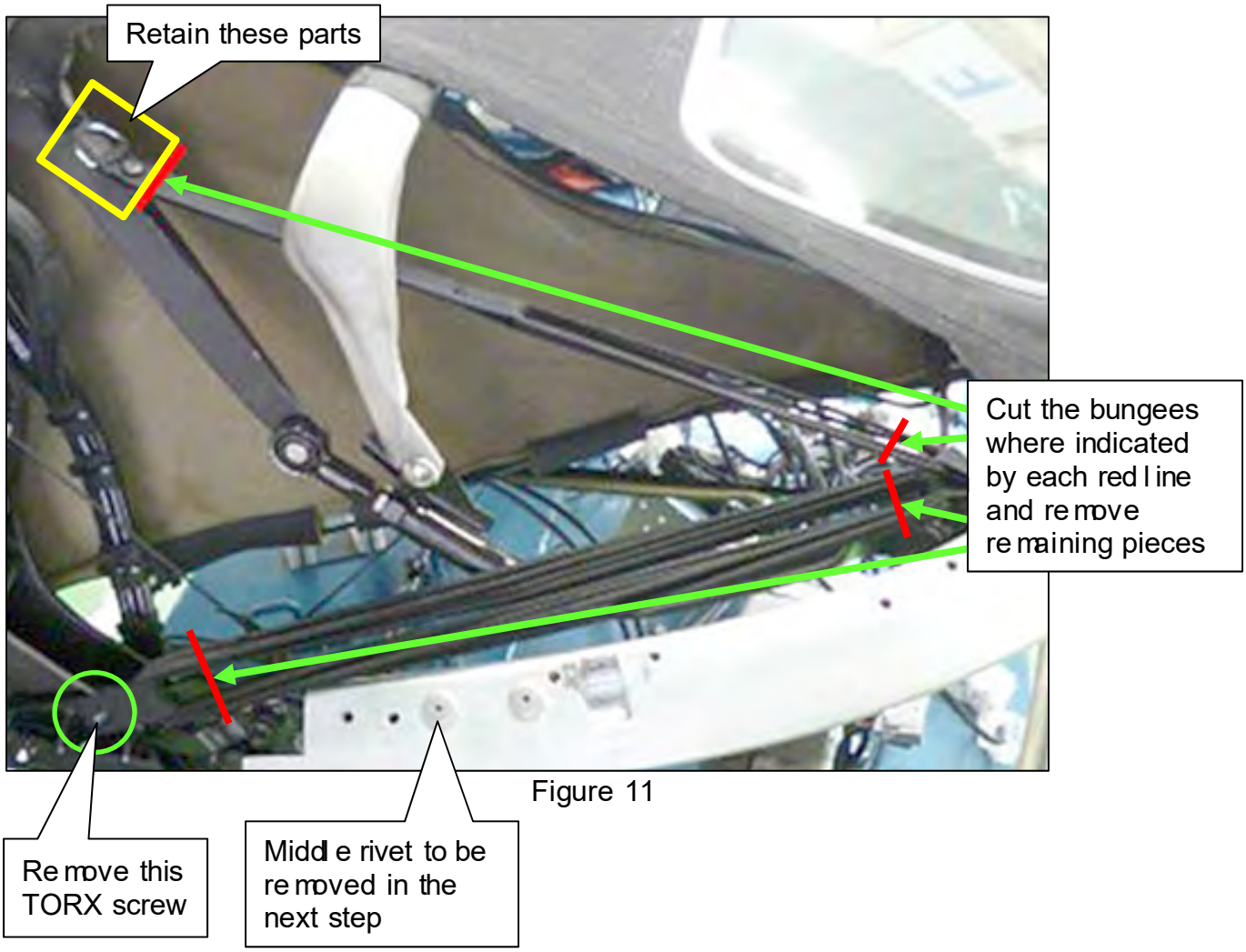


Figure 11

13. Remove the middle rivet with a drill.

HINT: Refer to Figure 11 for the location of the middle rivet.

- Lay out a fender cover underneath the rivet to catch any metal debris.
- Use a 5.2 mm drill bit.

Figure 12

14. Assemble a rivet and a washer (WASH-SPL) onto a bungee bracket (WIRE-HDLNG) as shown in Figure 13.

- Reference numbers 1, 2 and 3 on page 30.
- Apply window regulator grease to both sides of the washer.

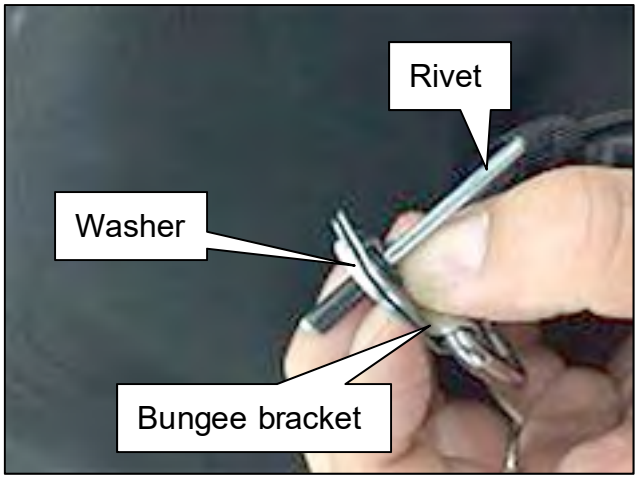


Figure 13

15. Attach the bungee bracket assembly to the 5th bow with a rivet gun.

HINT: Refer to Figure 14 for bracket orientation.

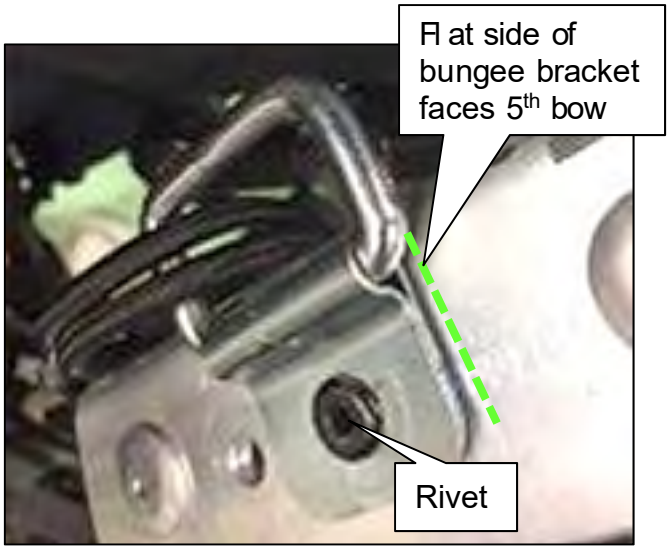


Figure 14

16. Attach the new bungee strap, with the TORX screw that was put aside in step 12, to the same spot that the TORX screw was removed from

    - Do not tighten the TORX screw completely. It will be removed again later in this procedure.

    NOTICE Do not use powered tools to install the TORX screw. The TORX screw hole is easily damaged by over-torqueing and/or misalignment. Damage to the TORX screw hole may require a replacement of the soft top assembly.

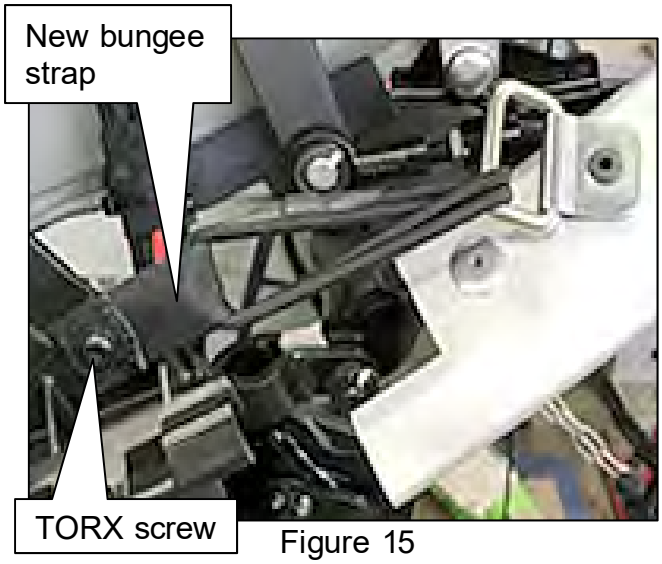


Figure 15

17. Skip to step 26.

Style B: Steps 18-25 are for vehicles with Style B 5th bow bungees. Vehicles built in May 2015 or later.

18. Cut through the bungees where indicated in Figure 16 with an appropriate tool.

19. Remove and discard the bungee pieces that were cut through.

20. Remove the TORX screw indicated in Figure 16 that retains the bungee strap and place the screw aside.
    - Discard the strap.

    HINT: This screw will be reused in step 25.

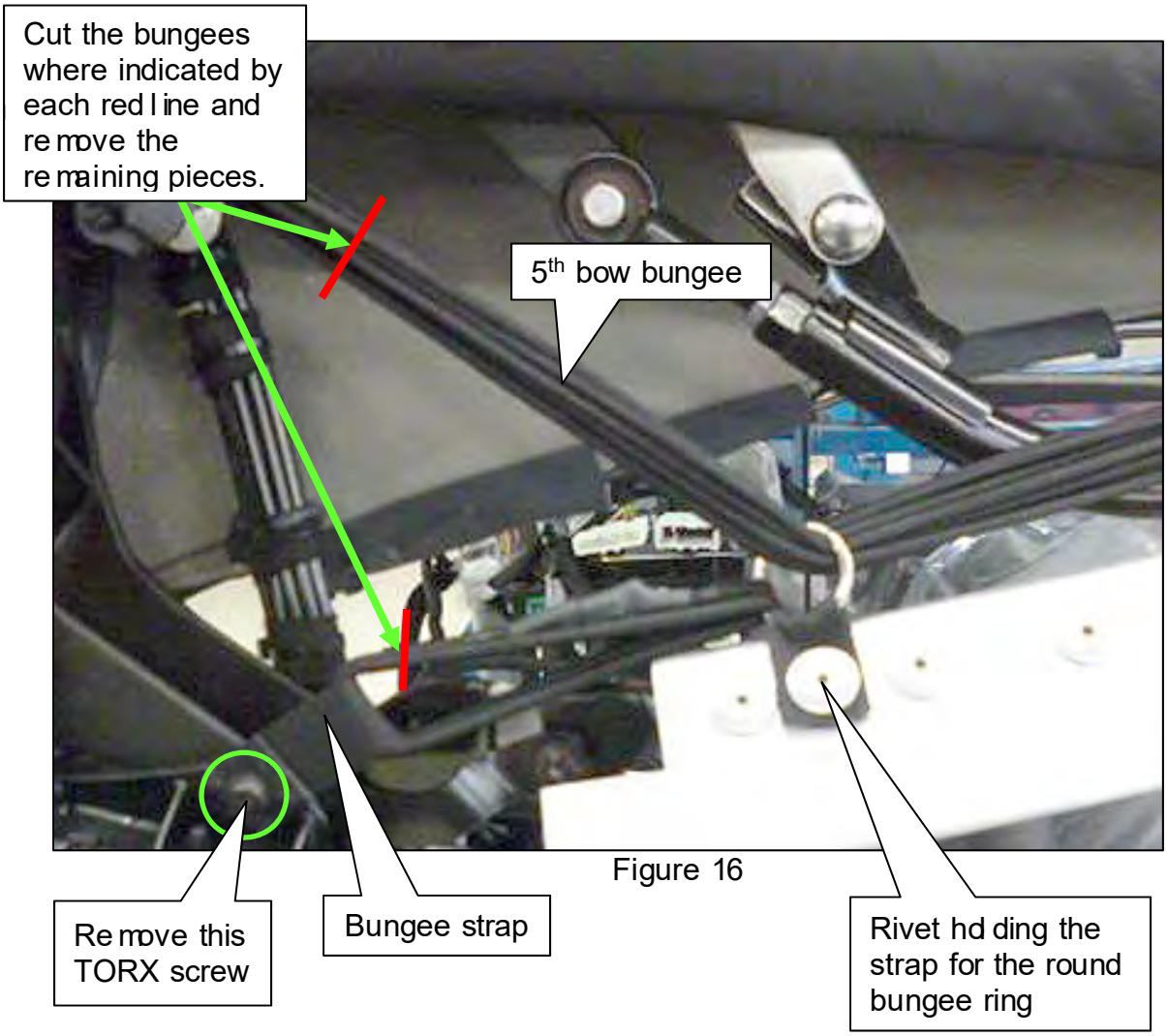


Figure 16

21. Remove the Torx screw, indicated in Figure 17, that retains the 5th bow bungee strap and place the screw aside. Discard the strap.

    HINT: This TORX screw will be reused in step 27.

Figure 17

22. Remove the rivet holding the strap for the round bungee ring shown in Figure 18 with a drill.

    HINT: Refer to Figure 16 for the location of the strap for the round bungee ring.

    - Lay out a fender cover underneath the rivet to catch any metal debris.
    - Use a 5.2 mm drill bit.


Figure 18

23. Assemble a rivet and a washer (WASH-SPL) onto a bungee bracket (WIRE-HDLNG) as shown in Figure 19.

    - Reference numbers 1, 2 and 3 on page 30.
    - Apply window regulator grease to both sides of the washer.

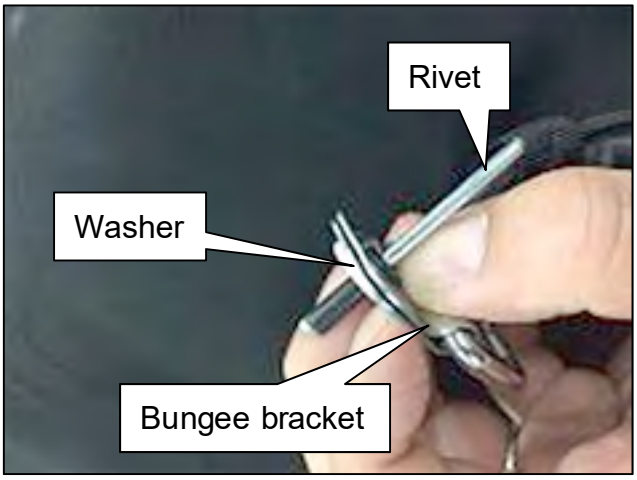


Figure 19

24. Attach the bracket assembly to the 5th bow with a rivet gun.

HINT: Refer to Figure 20 for bracket orientation.

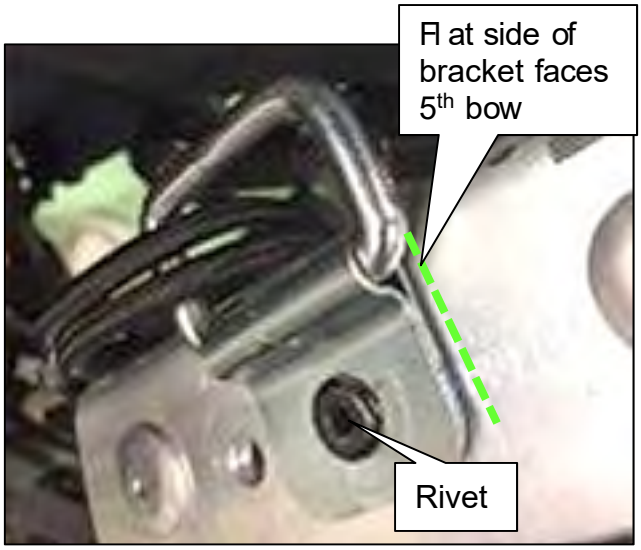


Figure 20

25. Using the TORX screw that was put aside in step 20, attach the new bungee strap to the same spot that the TORX screw was removed from

- Lightly tighten the TORX screw. It will be removed again later in this procedure.

NOTICE Do not use powered tools to install the TORX screw. The TORX screw hole is easily damaged by over-torqueing and/or misalignment. Damage to the TORX screw hole may require a replacement of the soft top assembly.

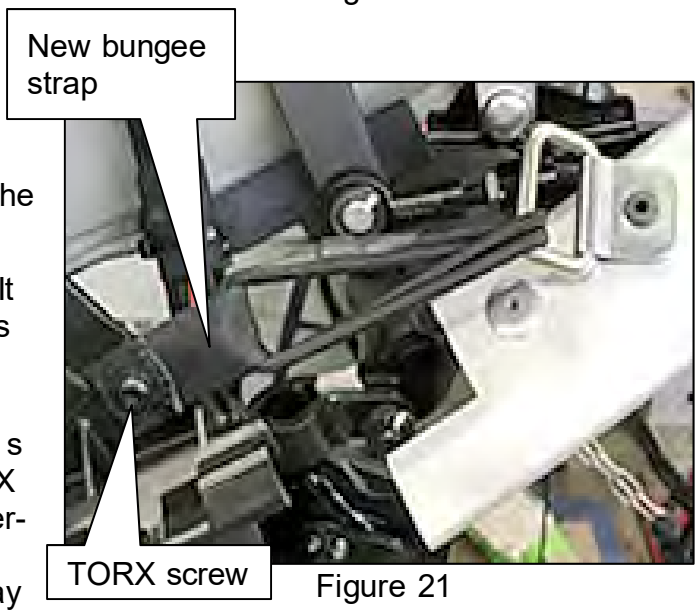


Figure 21

26. Insert the 5th bow bungee (BUNGEE-5TH BOW) through the bracket assembly installed in step 15 (Style A) or 24 (Style B) (see Figure 22).

- Reference number 4 on page 30.

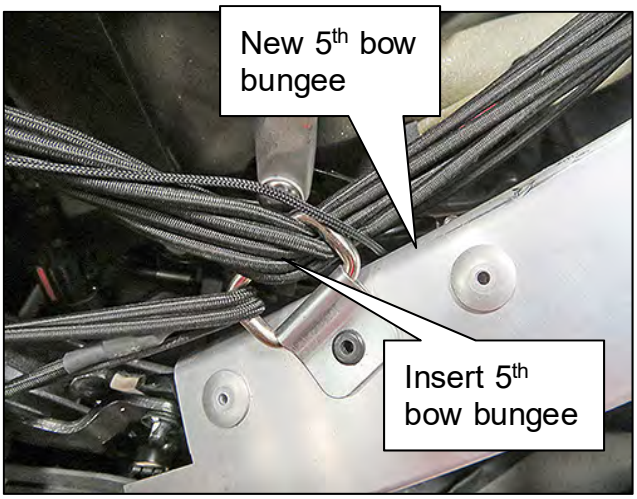


Figure 22

27. Attach one end of the 5th bow bungee to the rear of the 5th bow, where the old bungee strap was attached, in the orientation shown in Figure 23.

- If the old bungee strap is still attached at the point shown in Figure 23, remove it and reuse Torx screw to attach the new bungee.

NOTICE Do not use powered tools to install the TORX screw. The TORX screw hole is easily damaged by over-torqueing and/or misalignment. Damage to the TORX screw hole may require a replacement of the soft top assembly.

Figure 23

28. Remove the TORX screw shown in Figure 24.

- The TORX screw is located on the rear of the B-pillar.

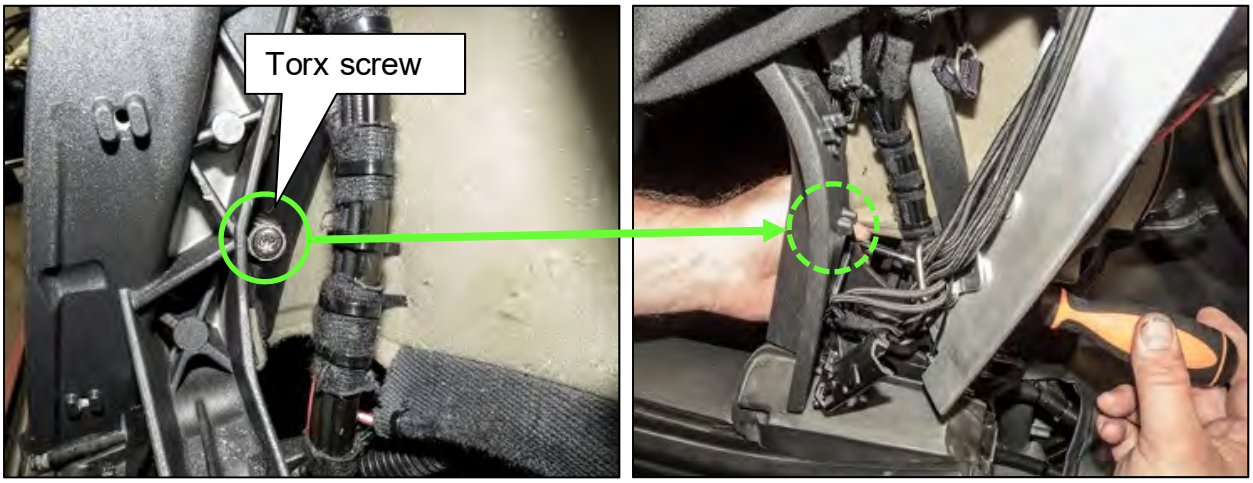


Figure 24

29. Attach the ring-strap support (RING-STRAP SUPT).

- Screw torque: 3 N•m (0.3 kg-m, **26.6 in-lb**)
- Reference number 5 on page 30.

NOTICE Do not use powered tools to install the TORX screw. The TORX screw hole is easily damaged by over-torqueing and/or misalignment. Damage to the TORX screw hole may require a replacement of the soft top assembly.

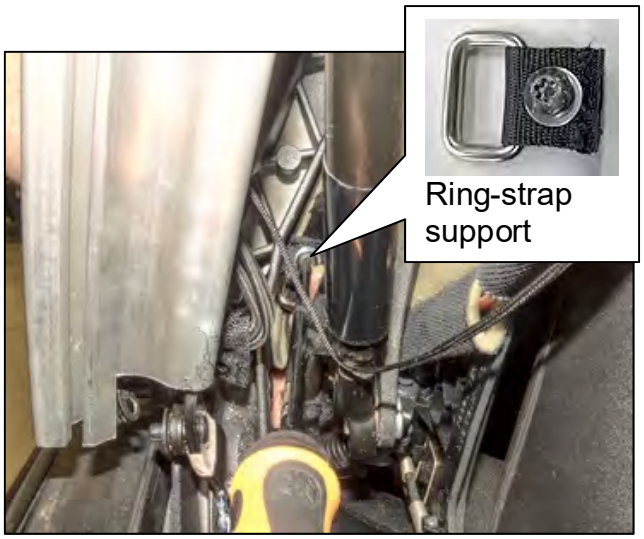


Figure 25

30. Place the plate-bracket (PLATE-BRKT, RH/LH) onto the 5th bow linkage, as shown in Figure 27.

- Reference numbers 6 (RH) and 7 (LH) on page 30.

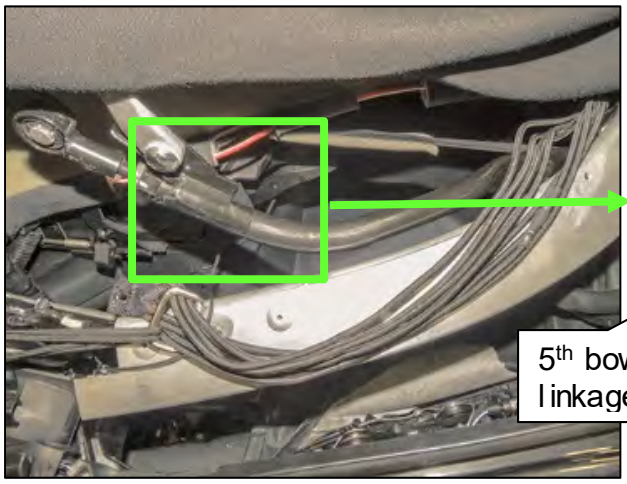


Figure 26

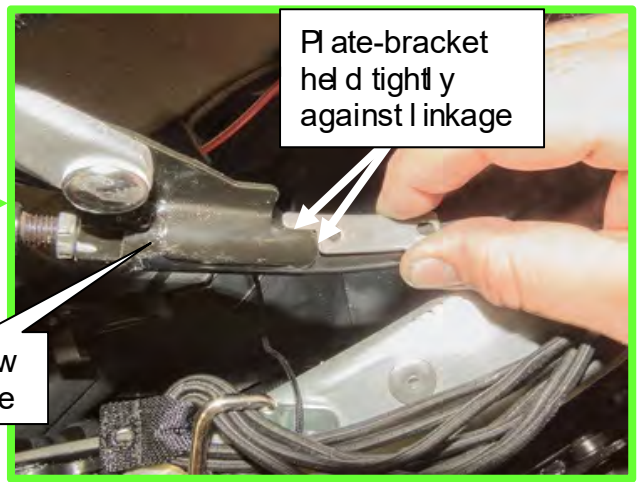


Figure 27

31. Mark the 5th bow linkage through both of the plate-bracket holes with an appropriate tool.

- The marks will be used to drill holes in the next steps.


Figure 28

32. Drill two (2) holes where marked in step 31.
    - Use a 4.1 mm drill bit.

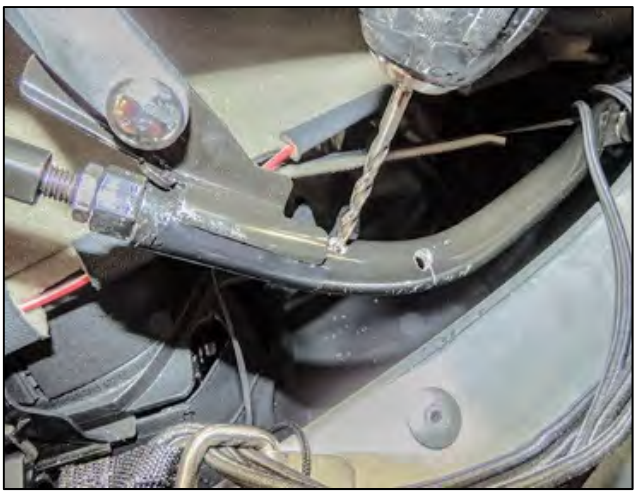


Figure 29

33. Insert the “side specific” plate-bracket through the loop in the Cable-Tether as shown in Figure 30.
    - The loop on the Cable-Tether must be facing up (on top).
    - Reference number 8 on page 31.

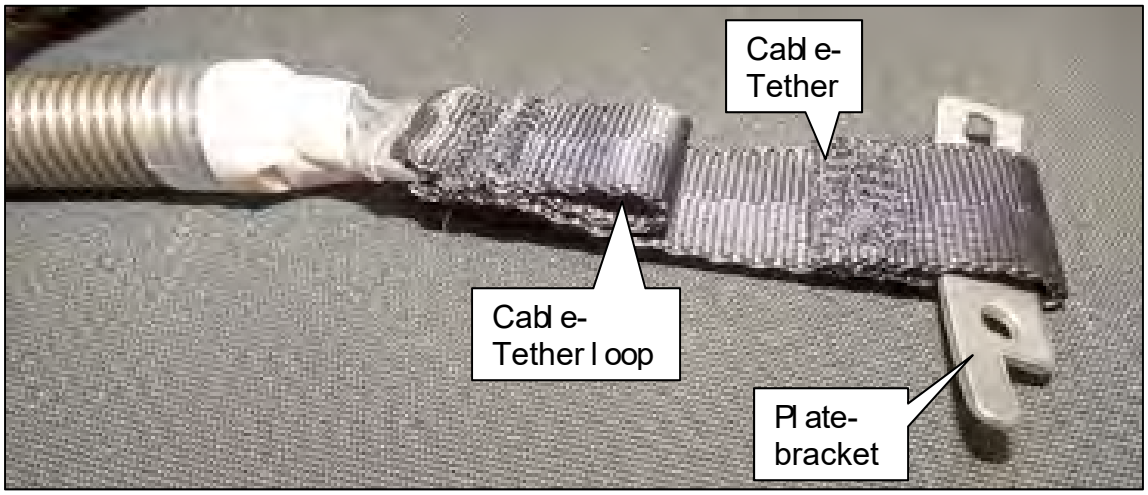


Figure 30

34. Attach the plate-bracket/Cable Tether assembly to the 5th bow linkage with two (2) pop rivets as shown in Figure 31.
    - Reference number 9, on page 31.

35. Temporarily route the Cable-Tether (see Figure 31).
    - The Cable-Tether will wrap around the 5th bow linkage and rest on top of the 5th bow.

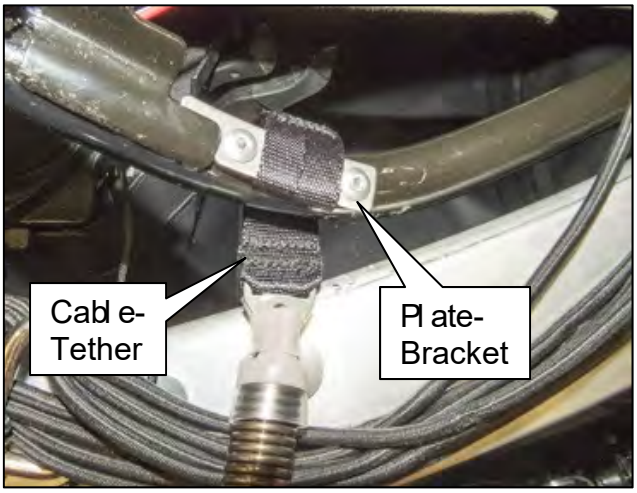


Figure 31

36. Measure the gap between the base of the 5th bow linkage joint to the flange shown in Figure 33.

    - Is the gap 29 mm (+/-1 mm)?

      YES: Skip to step 41.

      NO: Proceed to step 37.

37. Remove the push-nut and then pull the link-pin out of the 5th bow linkage joint (see Figure 32).

38. Loosen the lock nut.

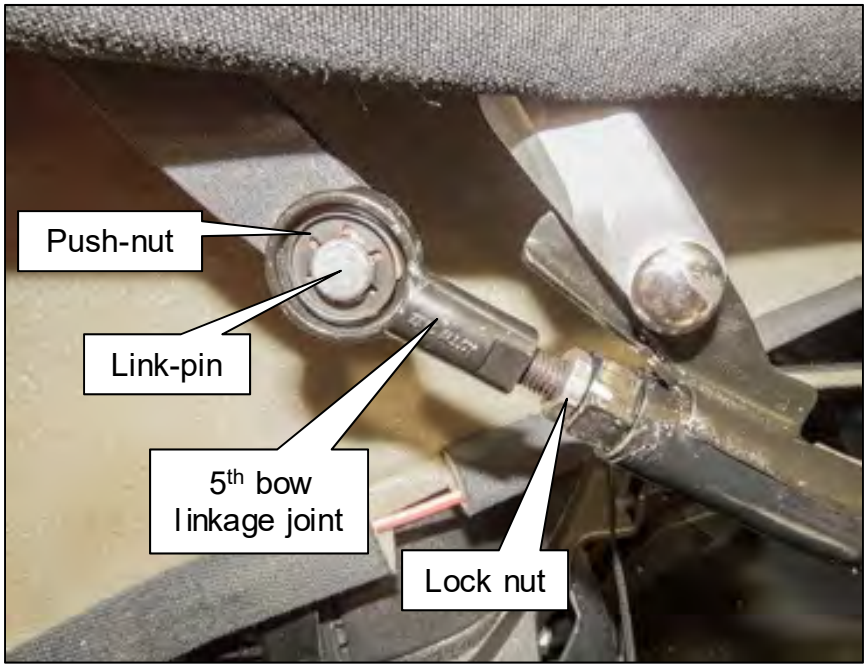


Figure 32

39. Rotate the 5th bow linkage joint to adjust the length to 29 mm (+/-1 mm).

    - The length is measured from the base of the 5th bow linkage joint to the flange shown in Figure 33.

40. After adjustment has been completed reassemble the 5th bow linkage joint.

    - Reference number 10 on page 31.

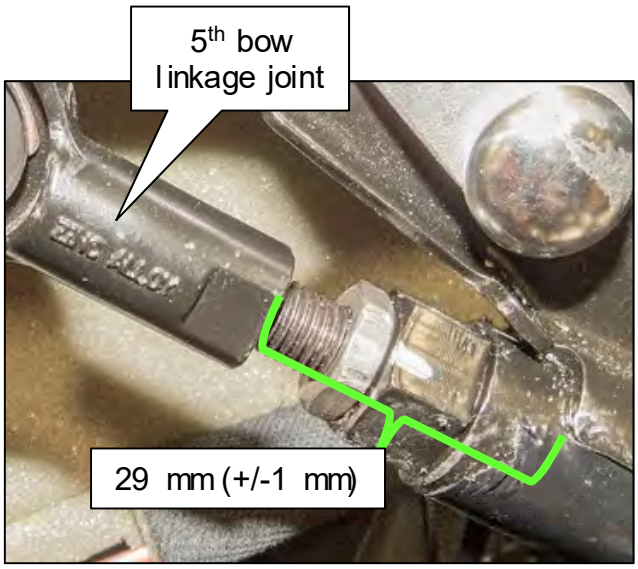


Figure 33

41. Install the 12 mm Cover-Bolt onto the 5th bow linkage (see Figure 34).
    - Reference number 11, on page 31.

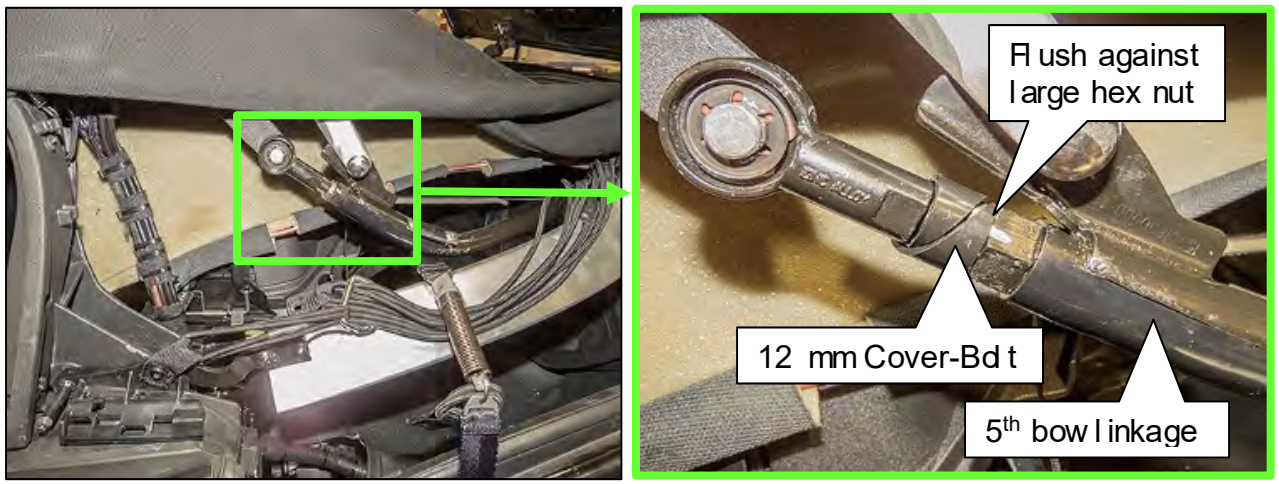


Figure 34

42. Install the 21 mm Cover-Bolt over the 12 mm Cover-Bolt (see Figure 35).
    - Reference number 12 on page 31.

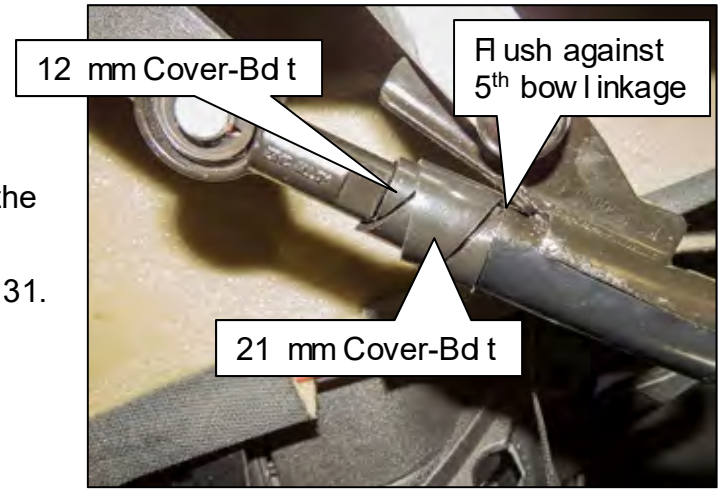


Figure 35

43. Apply the 25 x 50 mm tape (TAPE) over the bottom side of both Cover-Bolts as shown in Figure 36.
    - Reference number 13 on page 31.

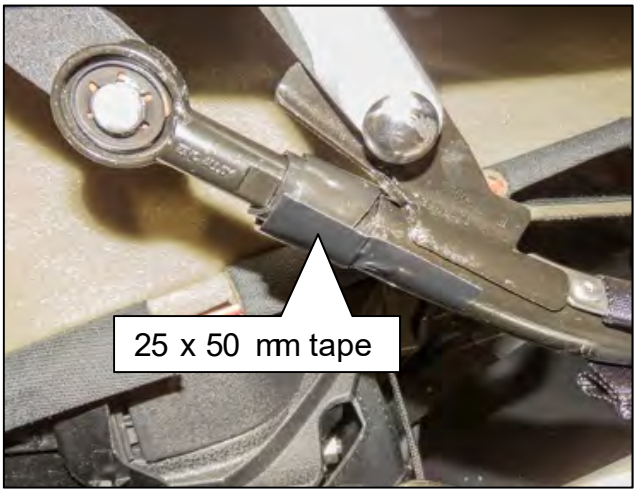


Figure 36

44. Wrap the end of the Cover-Bolts with a 160 mm piece of Felt Tape.

- Reference number 14 on page 31.
- Trim the Felt Tape to 160 mm before wrapping the Cover-Bolts.

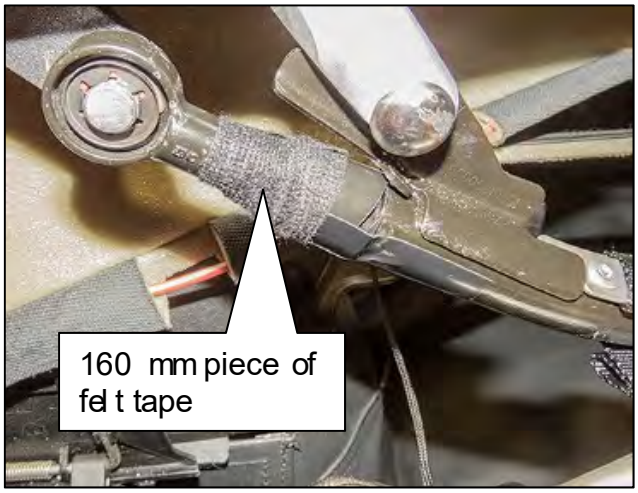


Figure 37

45. Remove the TORX screw that holds the tension spring and the lanyard eyelet to the rear of the B-Pillar.

HINT: This TORX screw will be reused in step 48.

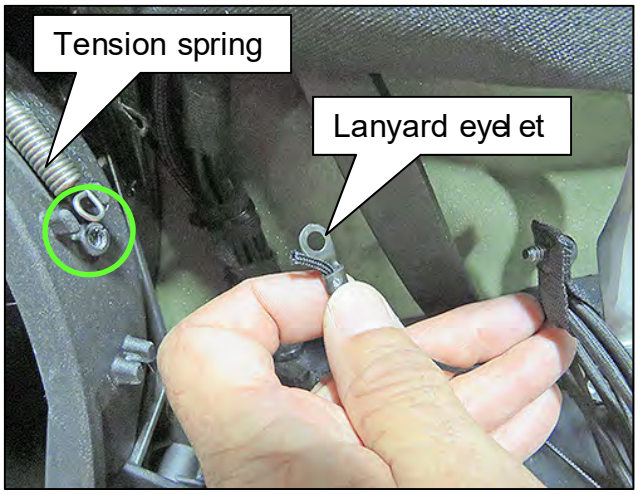


Figure 38

46. Thread the lanyard eyelet through the Cable-Tether loop in the direction indicated in Figure 39.

47. Route the lanyard under the 5th bow linkage and the 5th bow bungee.

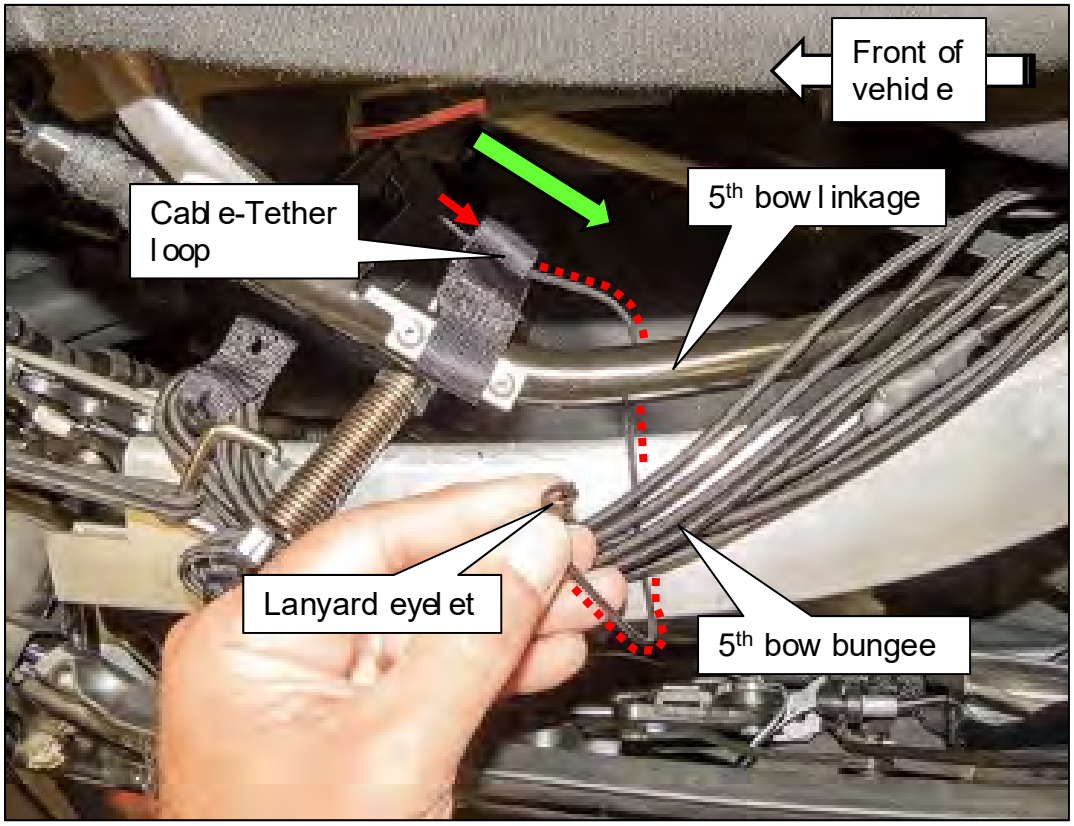


Figure 39

48. Insert the TORX screw removed in step 45 through the loose end of the 5th bow bungee strap, and then insert it through the tension spring.

49. Place the lanyard eyelet onto the TORX screw.

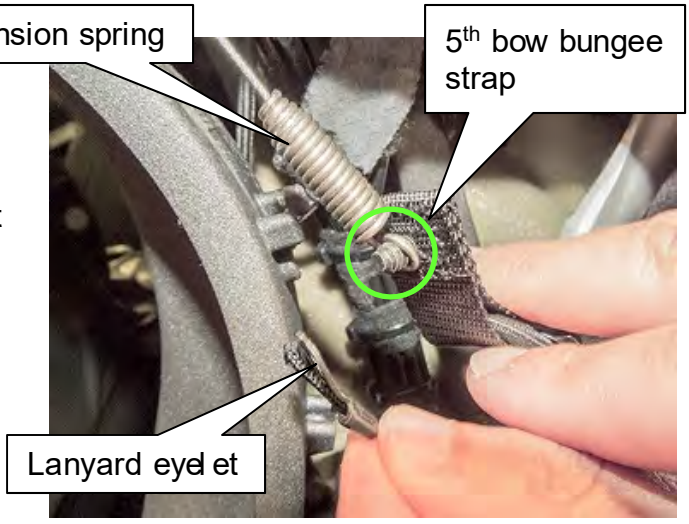


Figure 40

50. Position the soft top location strap under the lanyard eyelet attachment point that the TORX screw was removed from in step 45.

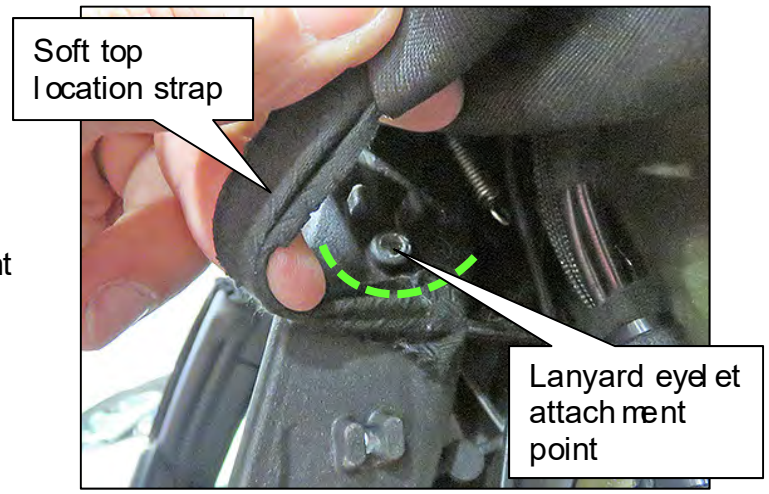


Figure 41

51. Attach the 5th bow bungee, tension spring and lanyard eyelet, assembled in step 48 and step 49, as shown in Figure 42.

- TORX screw torque: 3 N•m (0.3 kg-m, **26.6 in-lb**)

NOTICE Do not use powered tools to install the TORX screw. The TORX screw head is easily damaged by over-torqueing and/or misalignment. Damage to the TORX screw head may require a replacement of the soft top assembly.

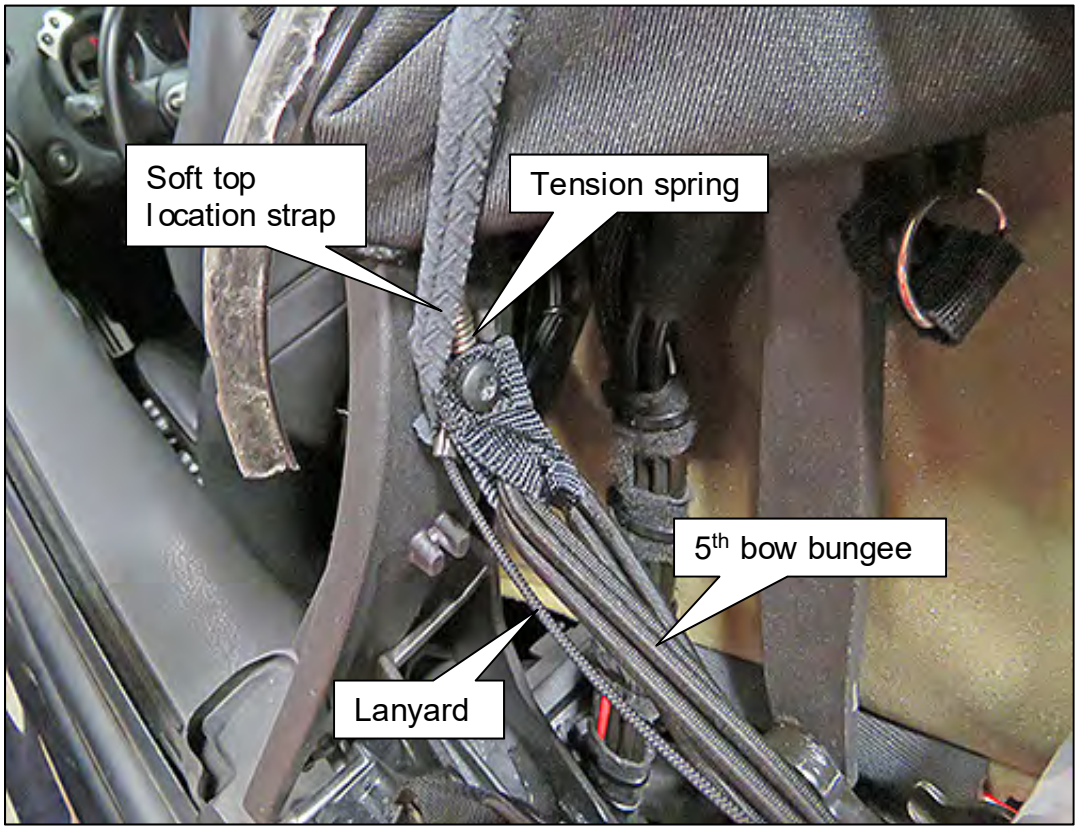


Figure 42

52. Remove the lightly tightened TORX screw attaching the bracket bungee strap, attached in step 25.

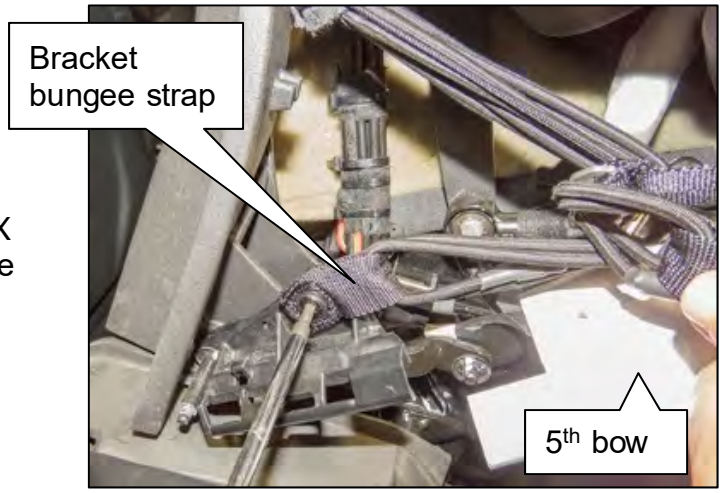


Figure 43

53. Insert the TORX screw, removed in step 52, first through the bungee strap of the Cable-Tether and then through the bracket bungee strap removed in step 52.

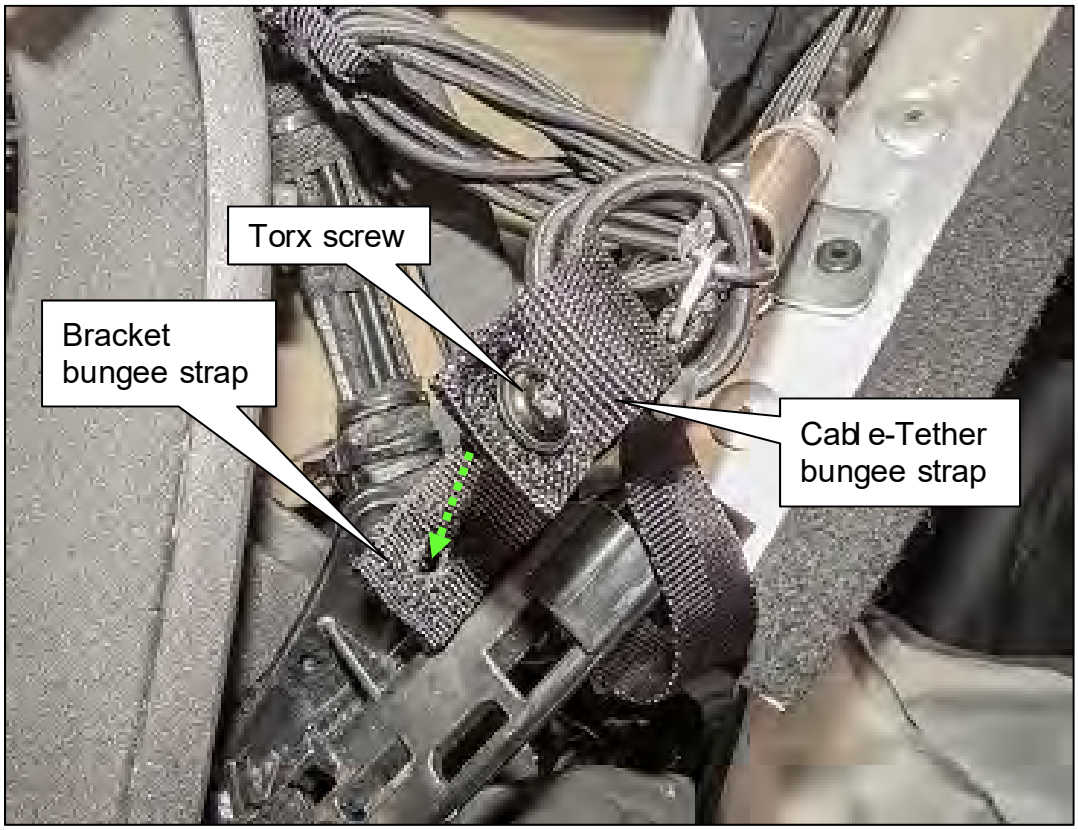


Figure 44

54. Attach the Cable-Tether bungee strap and bracket bungee strap assembly to the point the Torx screw was removed from in step 52.

NOTICE Do not use powered tools to install the TORX screw. The TORX screw hole is easily damaged by over-torqueing and/or misalignment. Damage to the TORX screw hole may require a replacement of the soft top assembly.

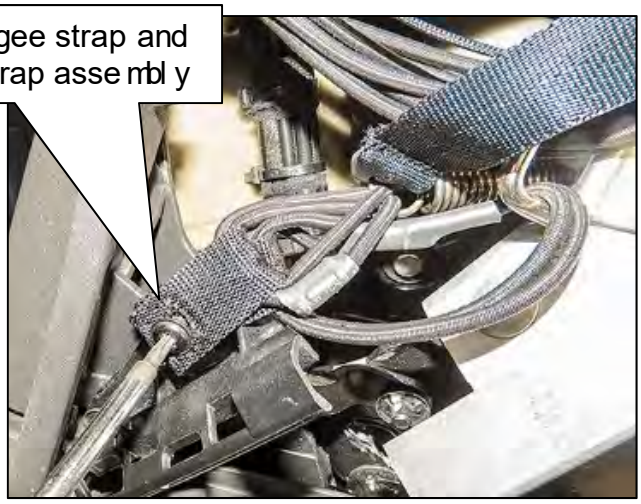


Figure 45

55. Route the Cable-Tether strap as shown in Figure 46, and then <u>between</u> the rear rail and the 5th bow linkage shown in Figure 47.

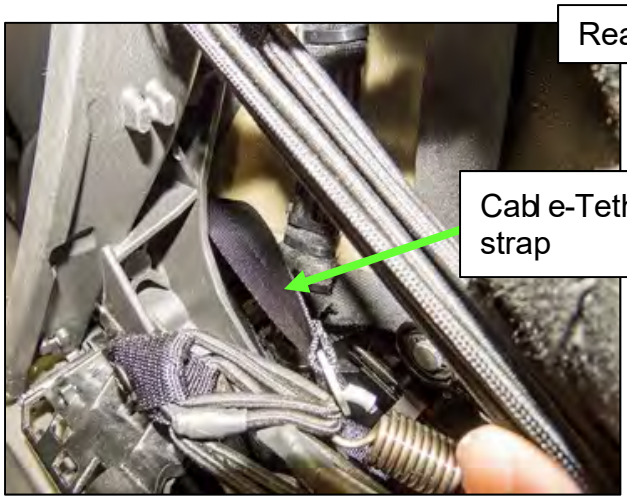


Figure 46

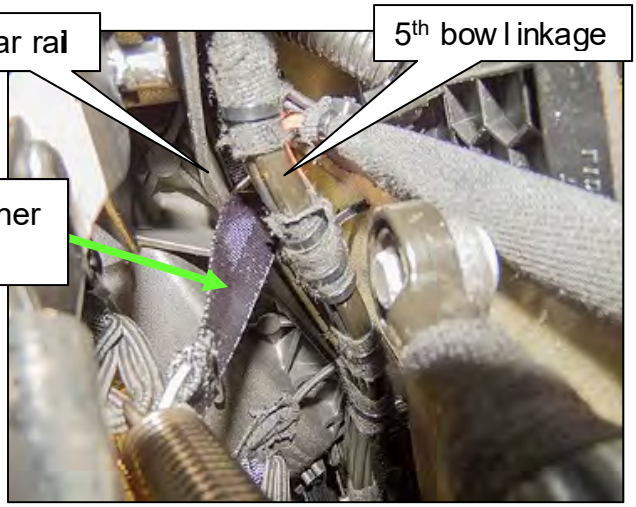


Figure 47

56. Insert the Cable-Tether strap through the Ring-Strap Support attached in step 29.

- Insert the Cable-Tether strap from the top to bottom, and then remove any twisting from the Cable-Tether strap.

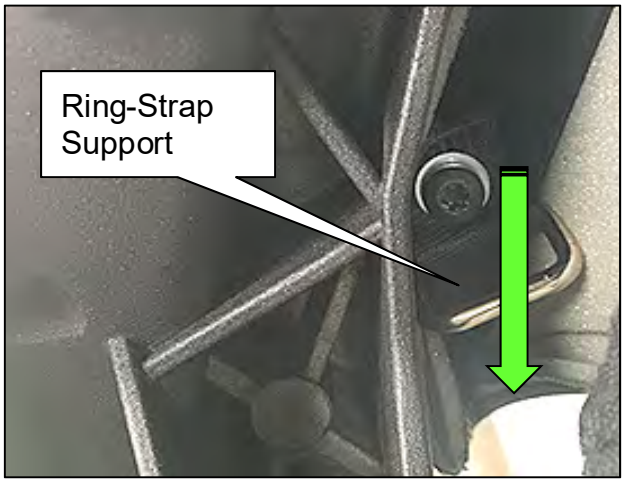


Figure 48

57. Remove the kicking plate inner.

- For kicking plate inner removal, refer to the ESM: **REPAIR > BODY INTERIOR > INTERIOR > REMOVAL AND INSTALLATION > KICKING PLATE INNER**.

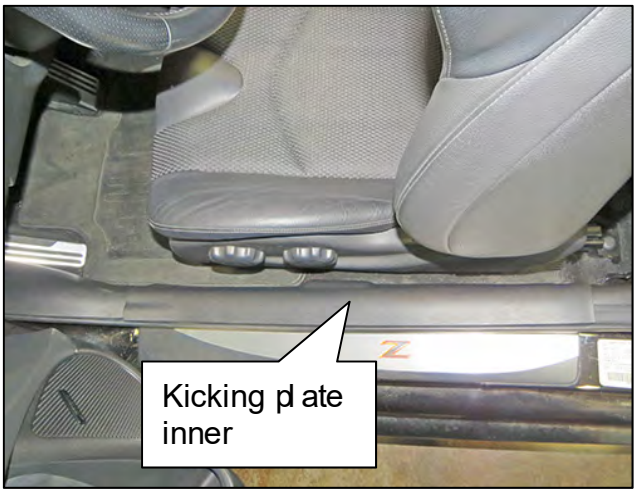


Figure 49

58. Remove the rear side finisher.

- For rear side finisher removal, refer to the ESM: **REPAIR > BODY INTERIOR > INTERIOR > REMOVAL AND INSTALLATION > REAR SIDE FINISHER**.

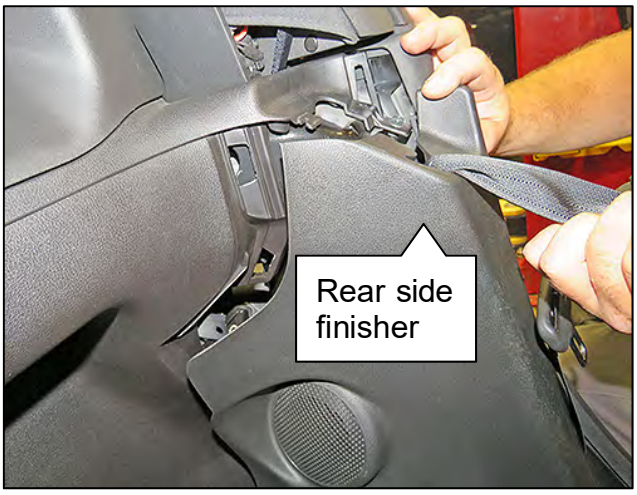


Figure 50

59. Lift the 5th bow to the angle shown in Figure 51.

HINT: This angle will help reduce the tension on the Cable-Tether strap as the end is attached in the following steps.

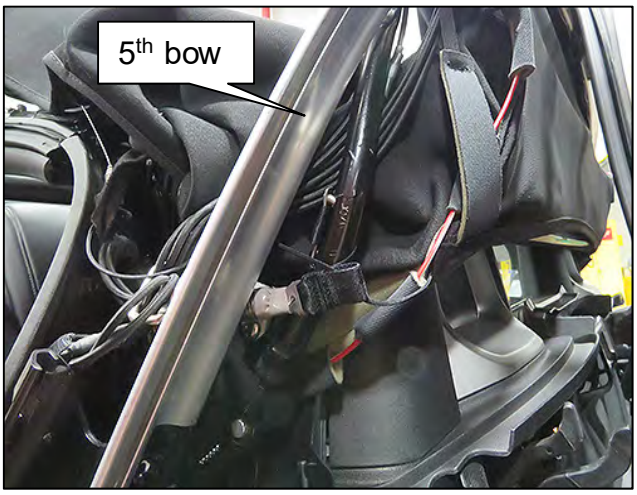


Figure 51

For steps 60-64 refer to Figure 52 and Figure 53 below.

- Figure 52 and Figure 53 show two views of the bolt head that will be used to attach the Cable-Tether strap.
- Figure 52 is from the soft top storage area and Figure 53 is from inside the vehicle.

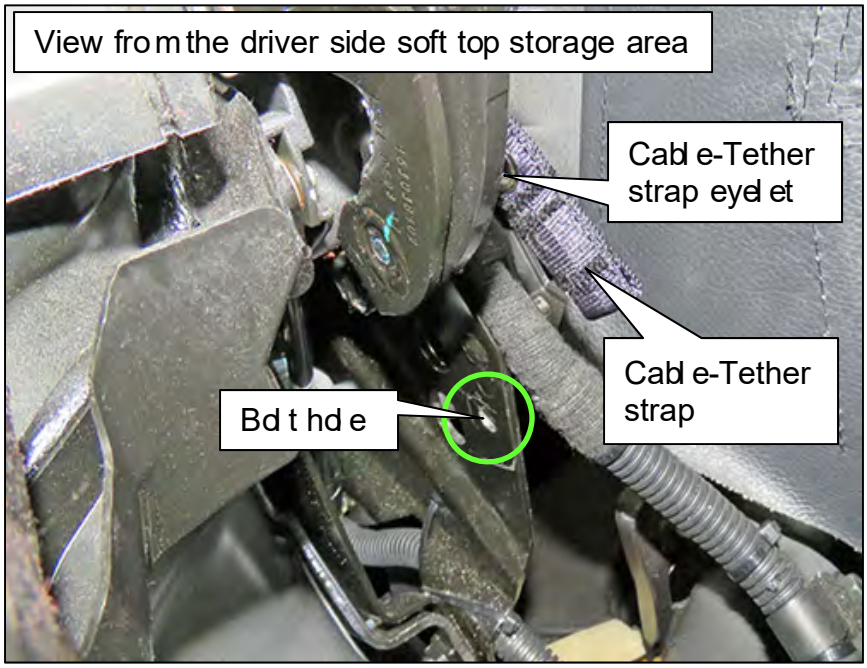


Figure 52

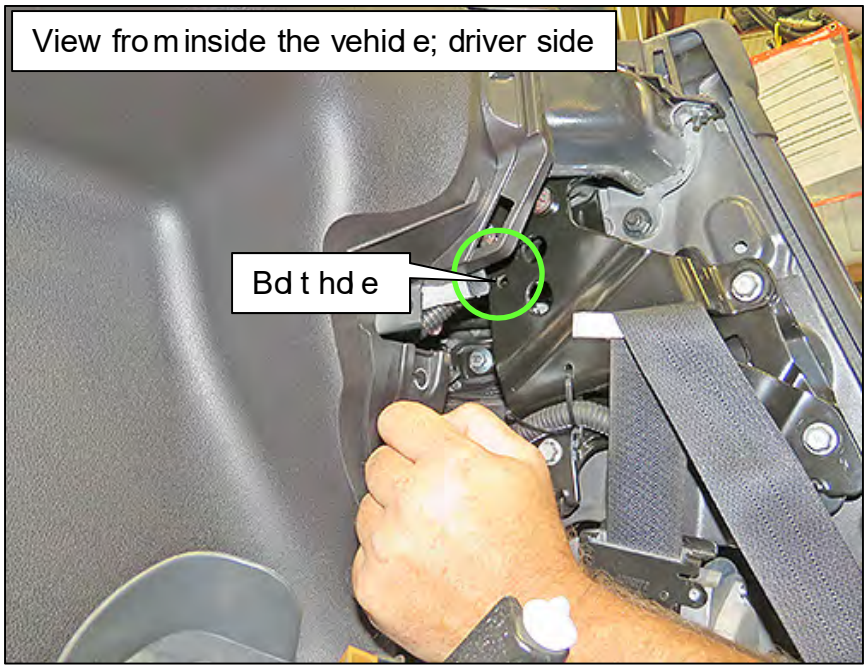


Figure 53

60. Insert bolt (BOLT-SPL) through the eyelet in the Cable-Tether strap and then insert the bolt through the hole shown in Figure 52 and Figure 53.
    - Confirm that there are no twists in the Cable-Tether strap; remove as necessary.
    - Insert bolt (BOLT-SPL) so that the threads face the middle of the vehicle (see Figure 54 and Figure 55).
    - Reference number 15 on page 32.

61. Thread one (1) nut (NUT-SPL) onto BOLT-SPL.
    - Reference number 16 on page 32.

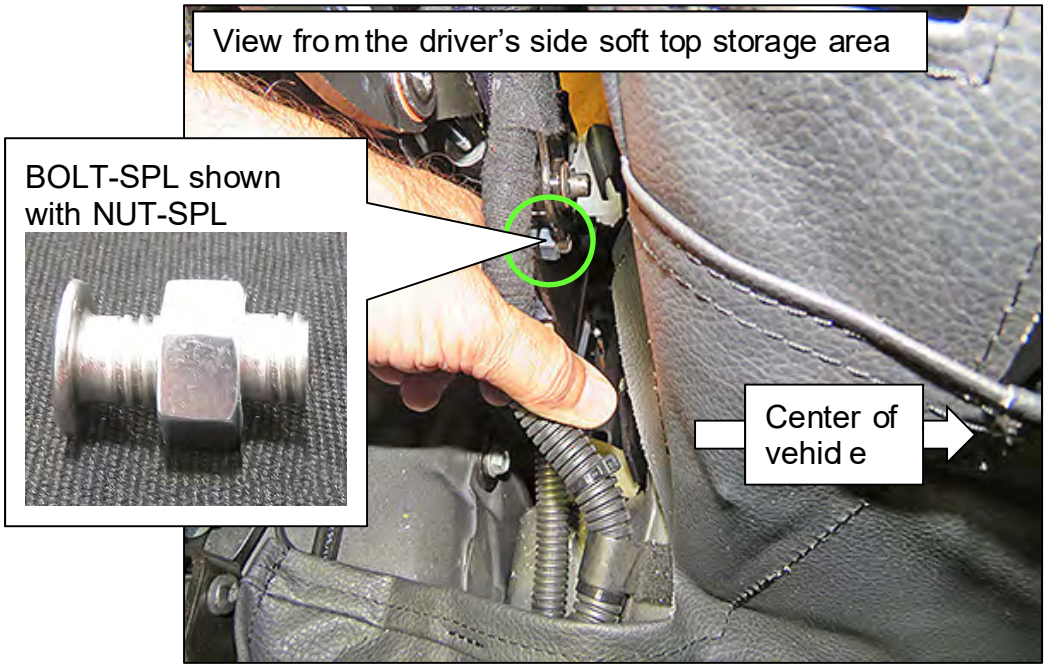


Figure 54

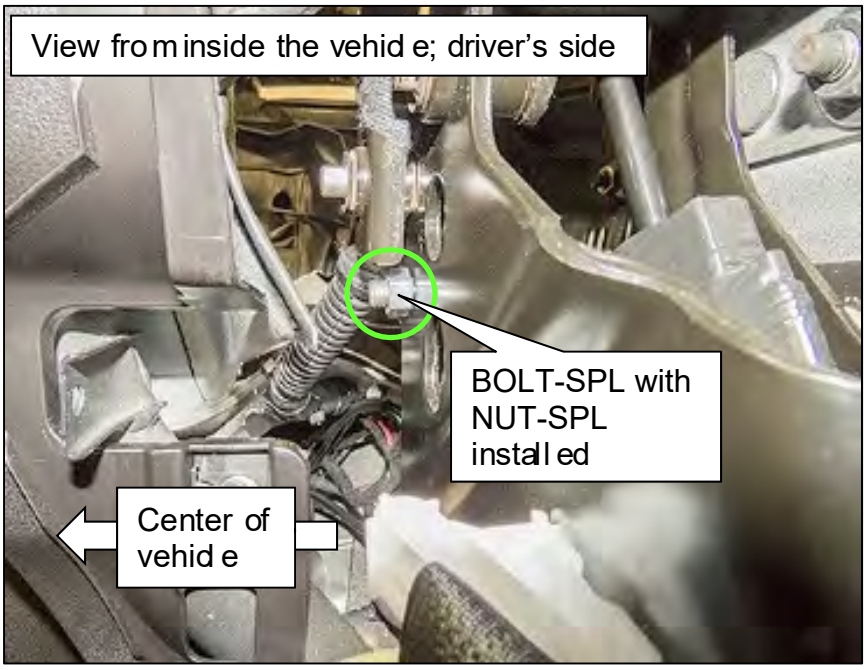


Figure 55

62. Gently tighten the nut until the bolt (BOLT-SPL) head turns.
    - Do not hold BOLT-SPL head with any tools.
    - The nut and bolt should only be tight enough to remove any gaps.

63. Thread on the second nut (NUT-SPL) and then tighten into the first as a jam-nut.

Figure 56

64. Tighten the first nut and the second nut until the bolt end extends past the second nut approximately 0.5 mm, as shown in Figure 57.

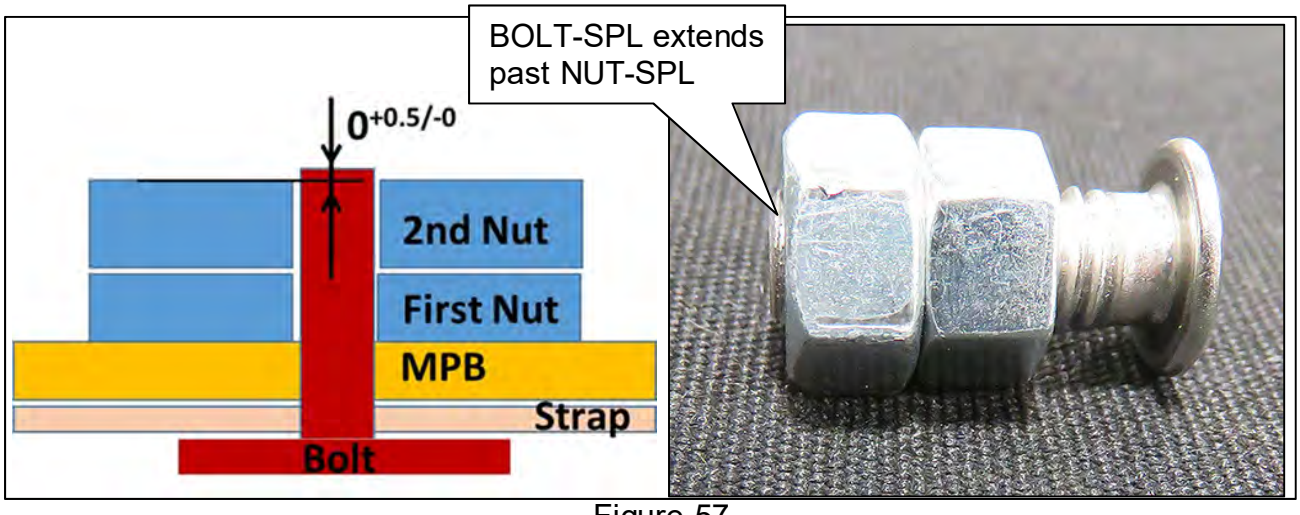


Figure 57

65. Attach two (2) zip ties (BAND) to the balance link at the point where the coil spring interferes.

- Do not zip tie the harness to the balance link.
- Reference number 17 on page 32.

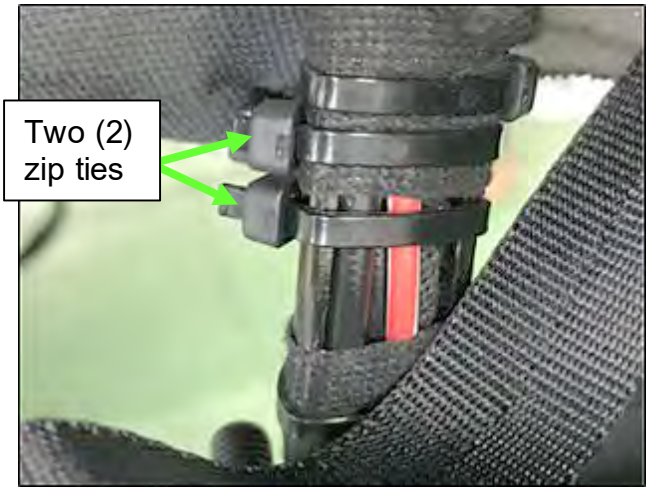


Figure 58

66. Measure 55 mm from where the plate-bracket is aligned with the 5th bow linkage.

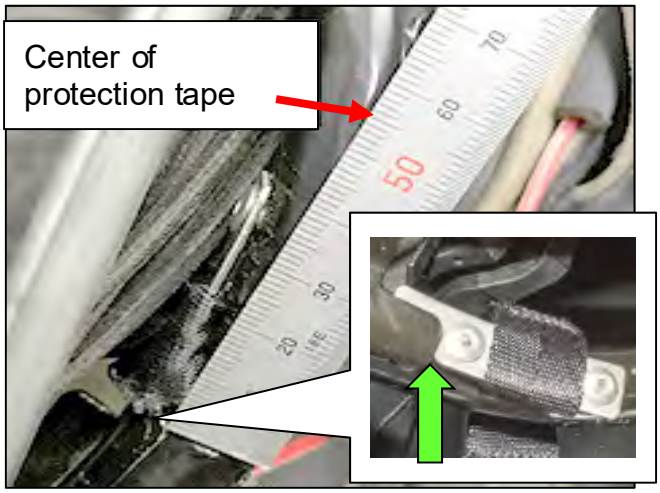


Figure 59

67. Center the 25 mm x 25 mm protection tape (TAPE) at 55 mm on the 5th bow linkage and adhere to the 5th bow linkage in the orientation shown in Figure 60, and then wrap it as shown in Figure 61.

- Reference number 18 on page 32.

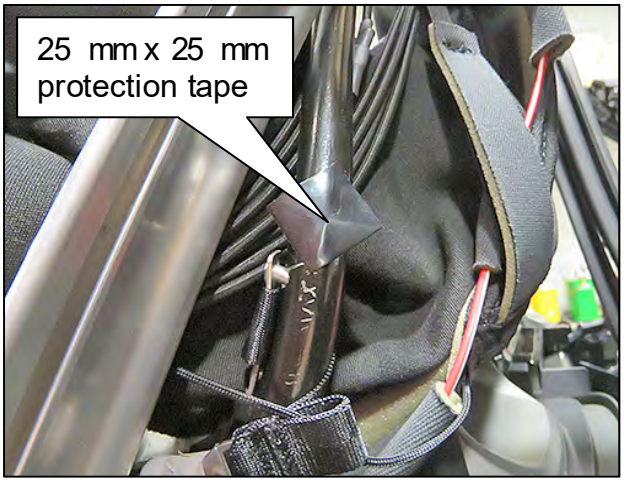


Figure 60

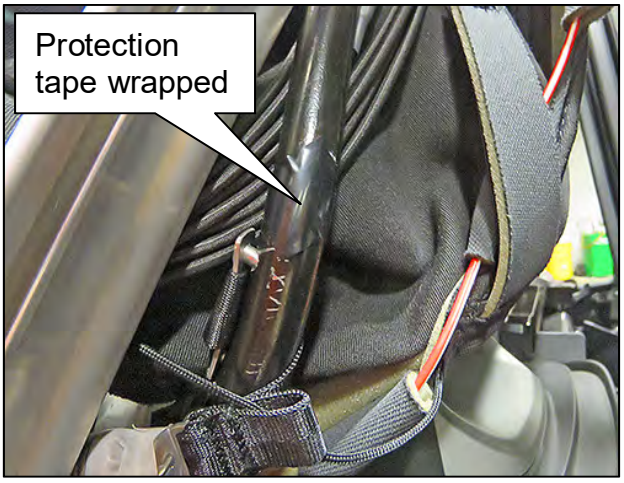


Figure 61

For soft top reassembly refer to the ESM: **REPAIR > BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY > ROOF > REMOVAL AND INSTALLATION > ROOF SEALING**.

68. Thread the soft top cover outer wire through the linkage assembly.

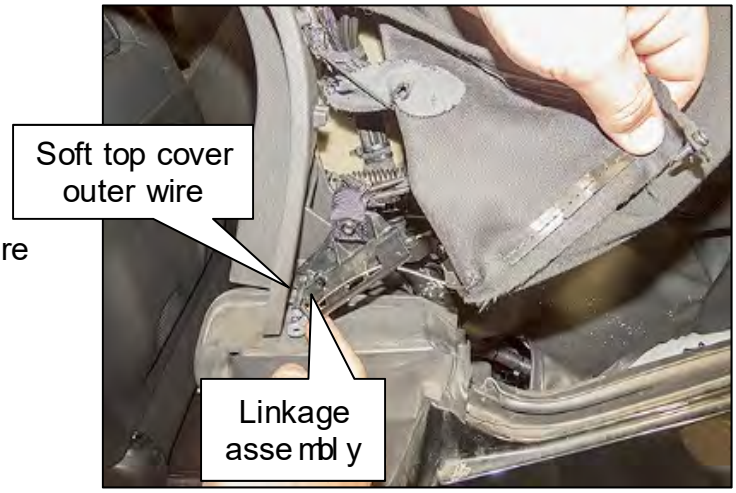


Figure 62

69. Attach the soft top cover outer wire, and then the E–Clip to the linkage assembly.
    - Reference number 19 on page 32.

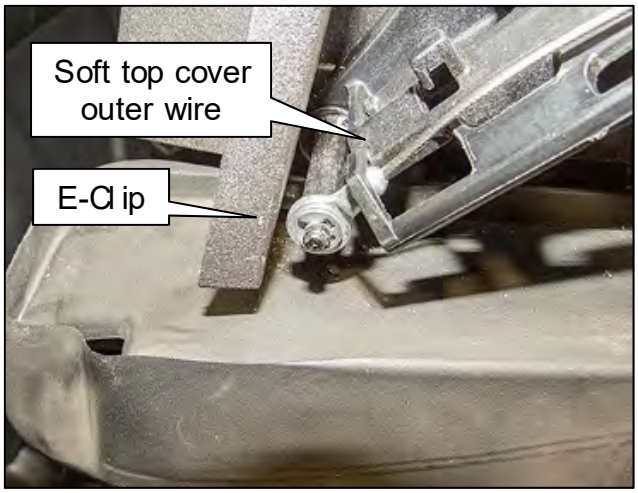


Figure 63

70. Reattach the soft top cover to the front side of the B-Pillar and the side cover extension plate.
    - The side cover extension plate is hidden by the soft top in Figure 64.

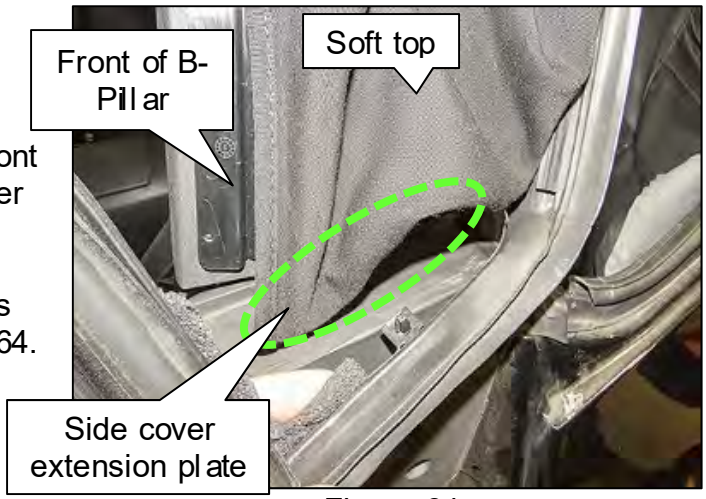


Figure 64

71. Install the rear rail weather-strip inner retainer with 3 TORX T20 screws.

NOTICE Do not use powered tools to install the TORX screw. The TORX screw hole is easily damaged by over-torqueing and/or misalignment. Damage to the TORX screw hole may require a replacement of the soft top assembly.

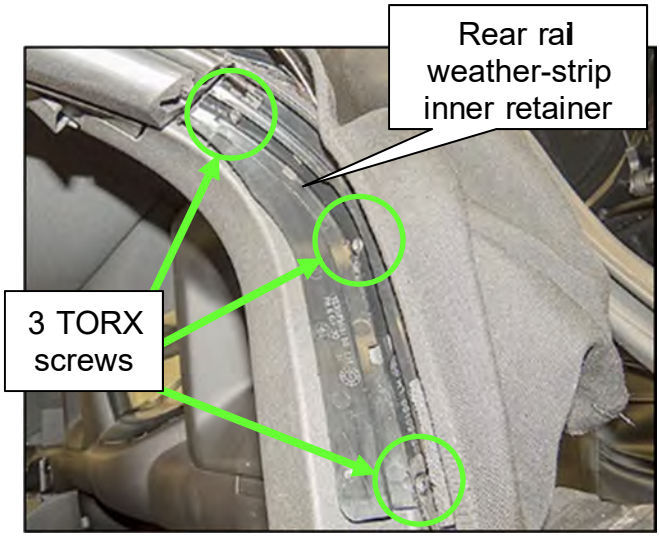


Figure 65

72. Reattach the edge of soft top cover to the inside edge of the 5th bow.

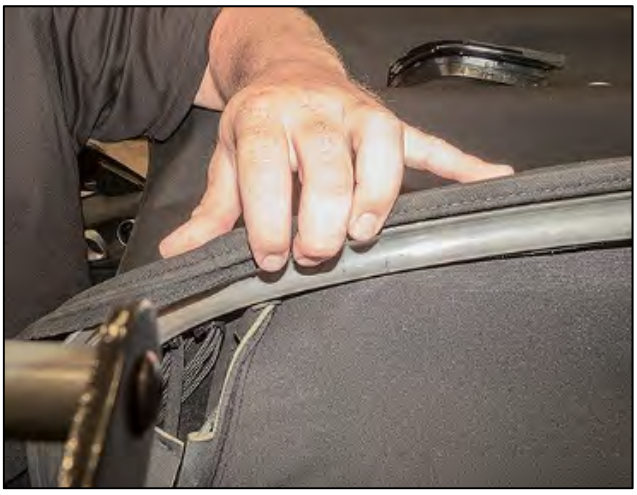


Figure 66

73. Reattach the back side of the rear rail weather strip to the 5th bow.

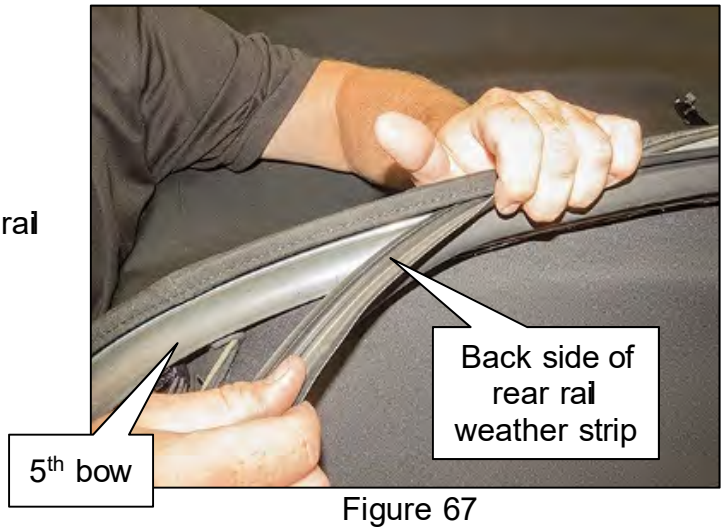


Figure 67

74. Replace the single use clip (CLIP) shown in Figure 68.
    - Reference number 20 on page 32.

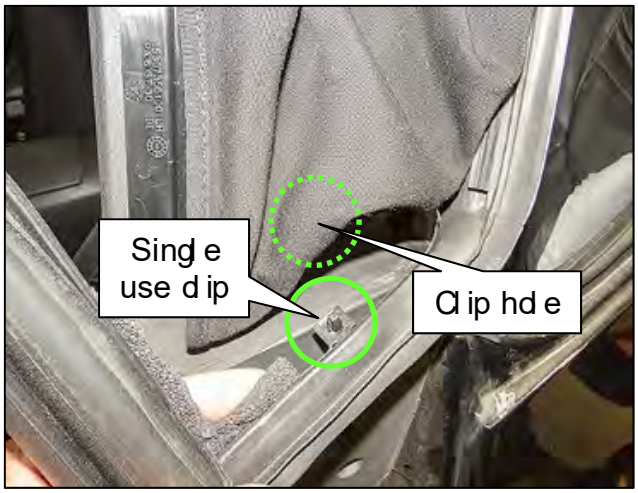


Figure 68

75. Attach the new single-use clip back into the linkage assembly.
    - Figure 69 shows the clip hole in the linkage assembly and is viewed looking up (see Figure 68).


Figure 69

76. Reattach the front side of the rear rail weather strip to the window frame rail.

Figure 70

77. Repeat steps 1-76 for the passenger side.

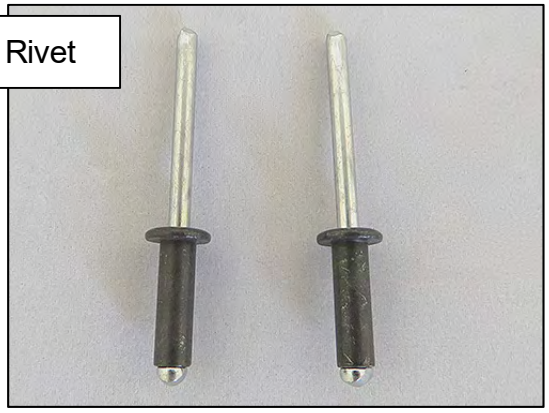
PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
BUNGEE KIT-5TH BOW (1)	971F6-1ET2A	1
Window Regulator Grease	999MP-WRG00P	As needed

(1) Parts from BUNGEE KIT-5TH BOW as pictured on the following pages in order of use in service procedure.

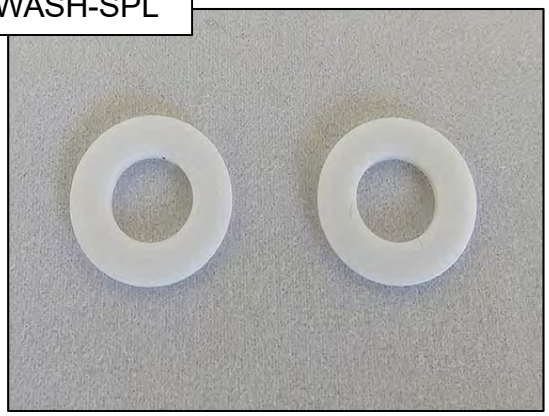
Contents of BUNGEE KIT-5TH BOW

#1, Rivet

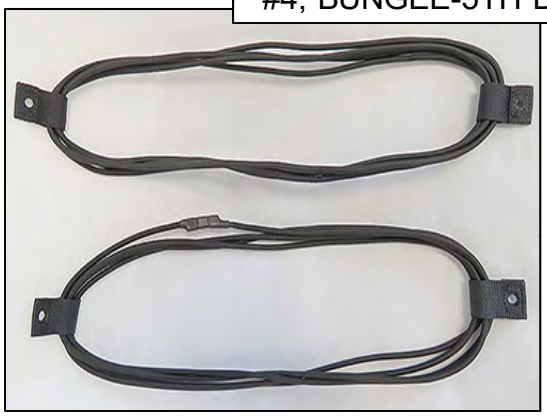


#2, WIRE-HDLNG

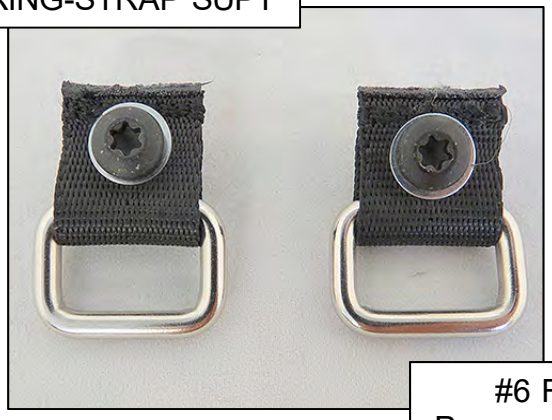
#3, WASH-SPL



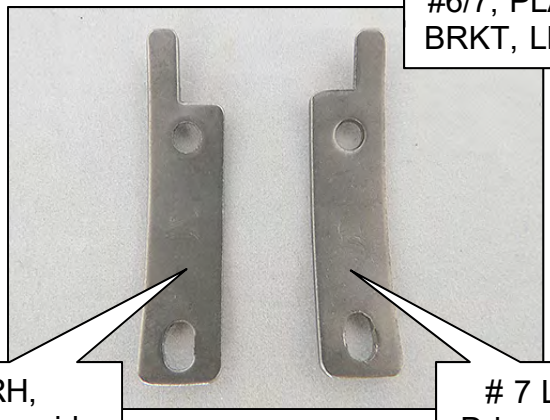
#4, BUNGEE-5TH BOW



#5, RING-STRAP SUPT



#6/7, PLATE-BRKT, LH/RH



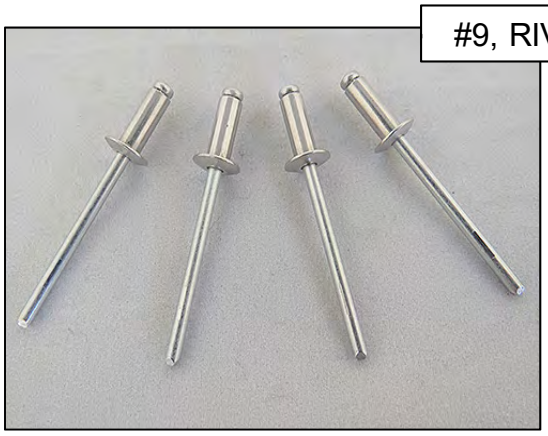
#6 RH, Passenger side

7 LH, Driver side

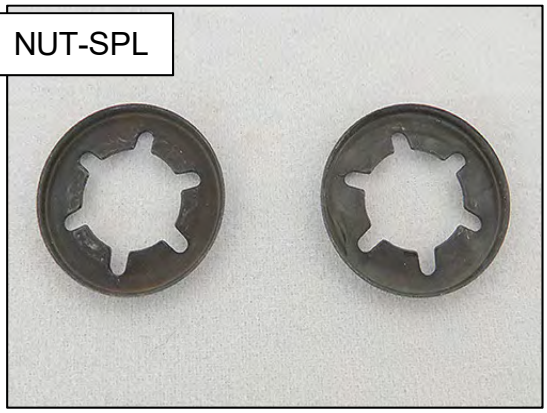
Contents of BUNGEE KIT-5TH BOW (continued)

#8, CABLE-TETHER

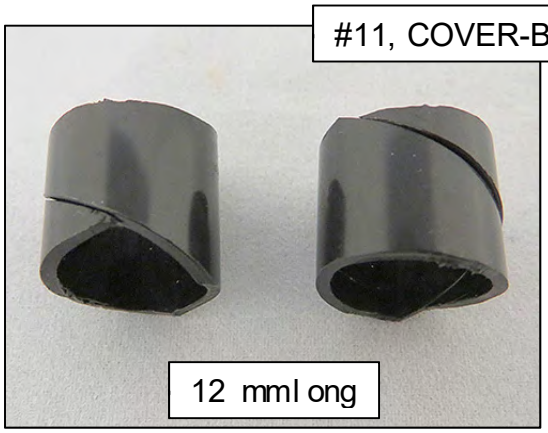
#9, RIVET



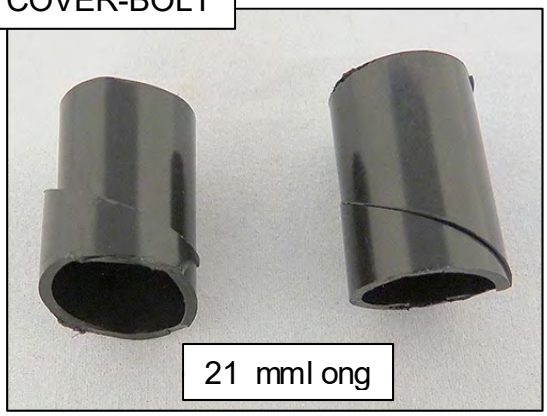
#10, NUT-SPL



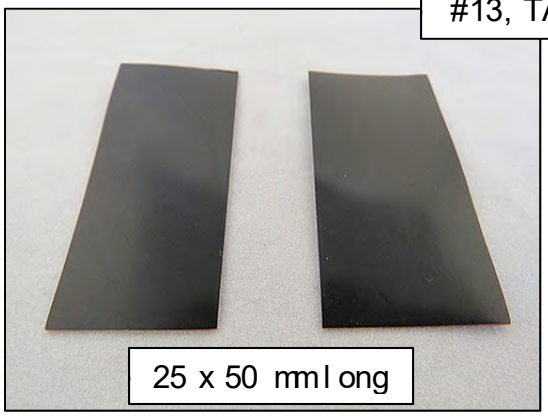
#11, COVER-BOLT



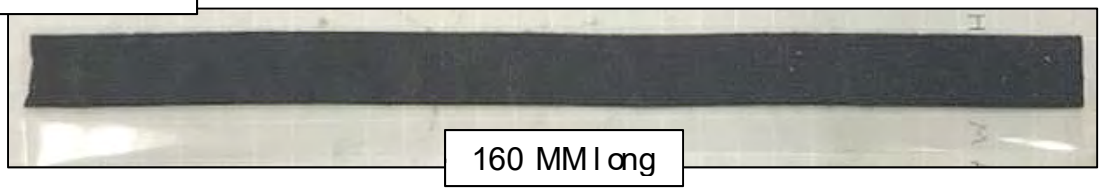
#12, COVER-BOLT



#13, TAPE

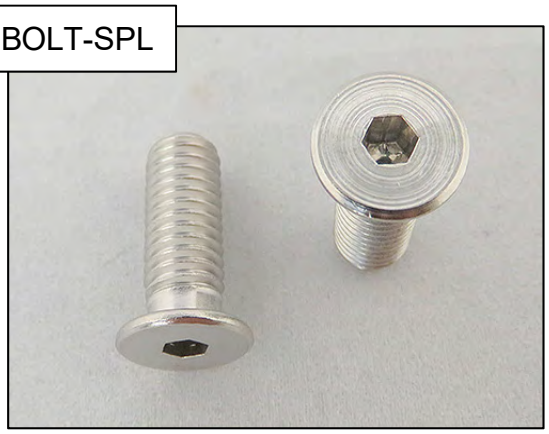


#14, FELT TAPE

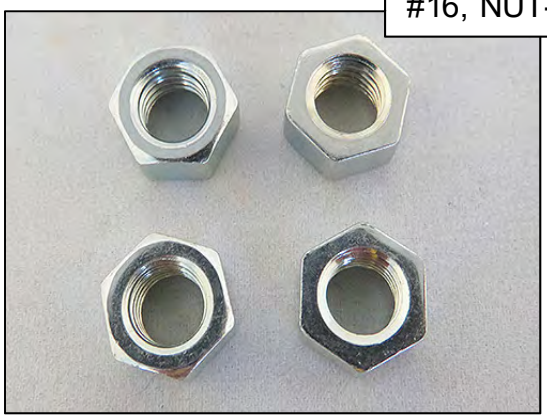


Contents of BUNGEE KIT-5TH BOW (continued)

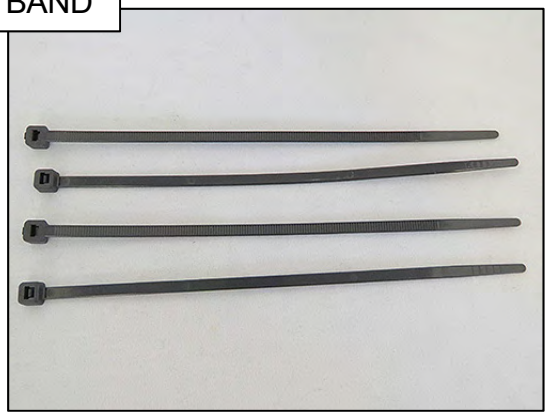
#15, BOLT-SPL



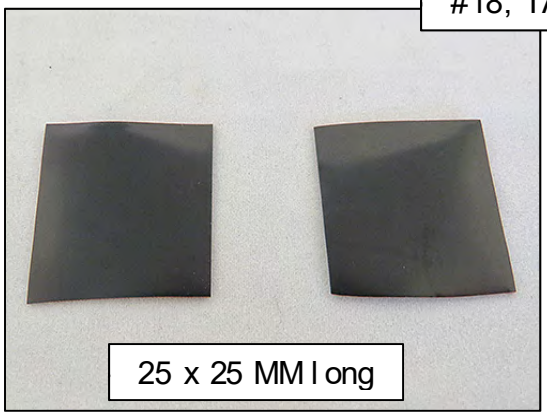
#16, NUT-SPL



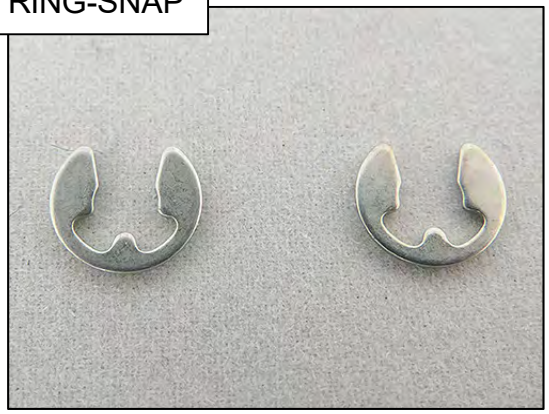
#17, BAND



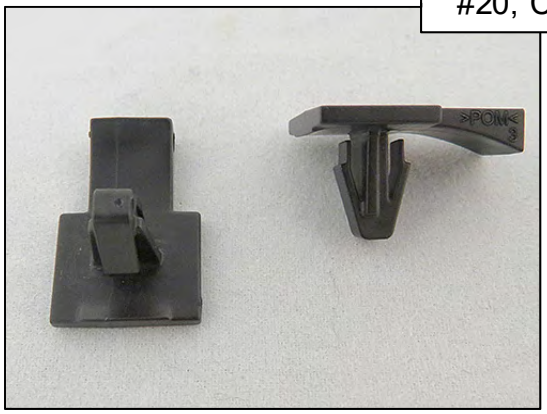
#18, TAPE



#19, RING-SNAP



#20, CLIP



CLAIMS INFORMATION

Submit a Primary Part (PP) type line claim using the following claims coding:

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Repair 5th Bow Bungee	(1)	BX6UAA	ZE	32	2.8

(1) Reference the electronic parts catalog and use the Folding Roof part number (97003 - XXXXX as the Primary Failed Part (PFP).

Expense code:

EXPENSE CODE	DESCRIPTION	MAX AMOUNT
033	Grease	$0.80

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
August 1, 2019	NTB19-061	Original bulletin published