



TECHNICAL SERVICE BULLETIN

Classification: BT19-012A	Reference: NTB19-061A	Date: September 14, 2022
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2010-2020 370Z; CONVERTIBLE SOFT TOP RUBS ON STORAGE LID WHEN OPENING/CLOSING

This bulletin has been amended. See AMENDMENT HISTORY on the last page.
Please discard previous versions of this bulletin.

APPLIED VEHICLES: 2010-2020 370Z Roadster (Z34)

IF YOU CONFIRM

The convertible Soft Top rubs on the Storage Lid when opening or closing.

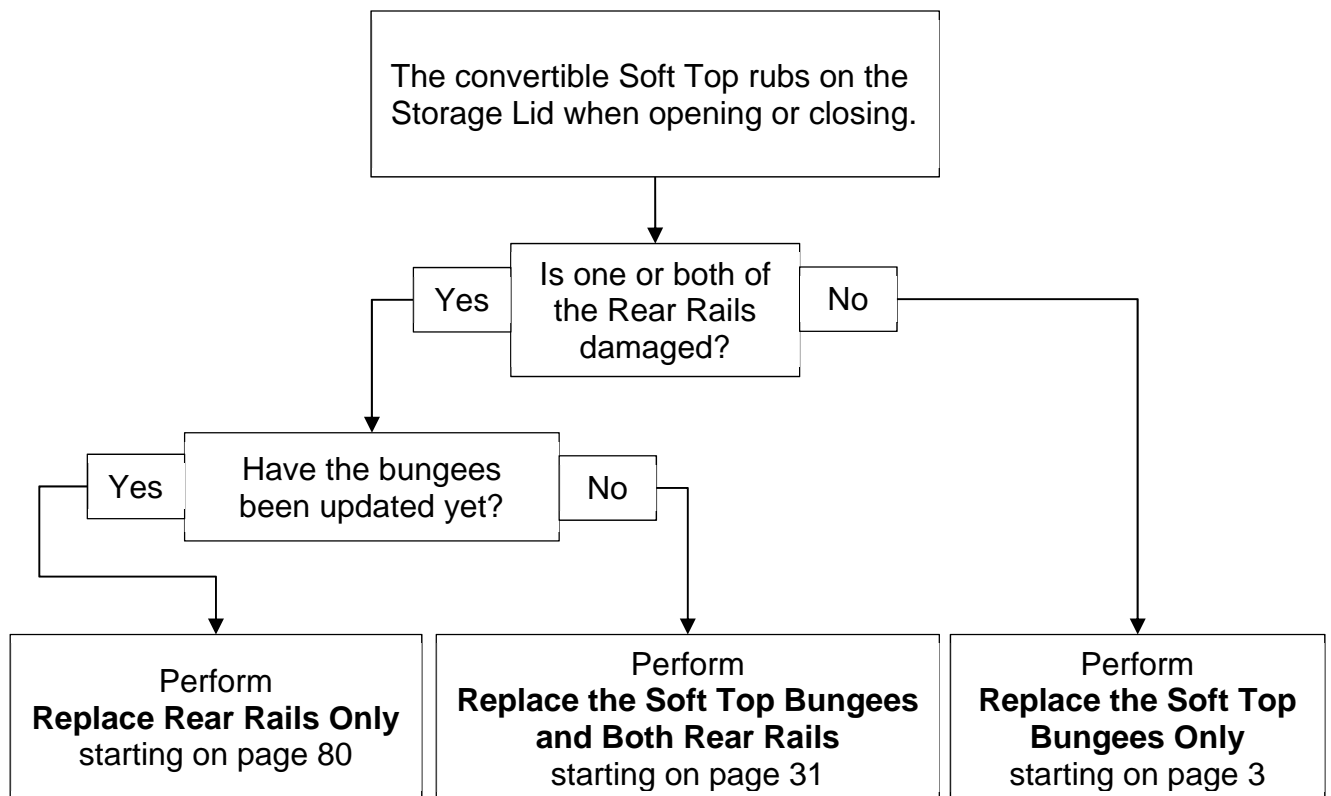
ACTION

Refer to the **Repair Overview** on page 2 for repair specific **SERVICE PROCEDURE**.

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.

Nissan Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. **NOTE:** If you believe that a described condition may apply to a particular vehicle, **DO NOT** assume that it does. See your Nissan dealer to determine if this applies to your vehicle.

Repair Overview



SERVICE PROCEDURE

Replace the Soft Top Bungees Only

HINT: Work on one side of the Soft Top at a time.

- The view of the **SERVICE PROCEDURE** is from the driver (LH) side. The passenger (RH) 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 Rear Rail.
 - Open the Soft Top half way to help with detachment.



Figure 1

2. Unclip the single use clip (Figure 2).
 - This clip will be replaced later in this procedure.

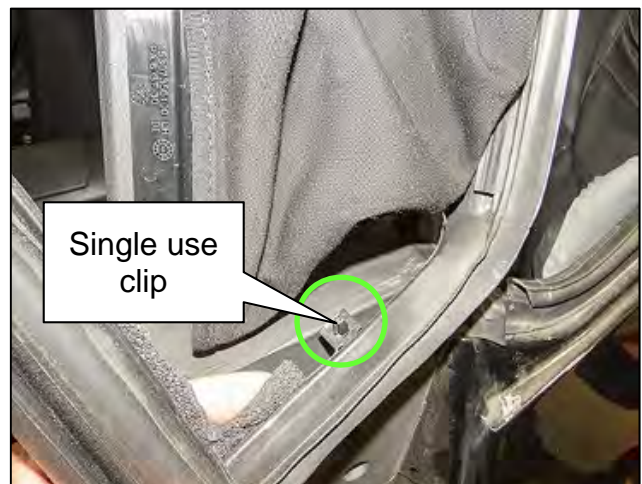


Figure 2

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 Outer from the inside edge of the 5th Bow.



Figure 4

5. Remove the three (3) star screws that retain the Rear Rail Weather-Strip Inner Retainer, and then remove it.

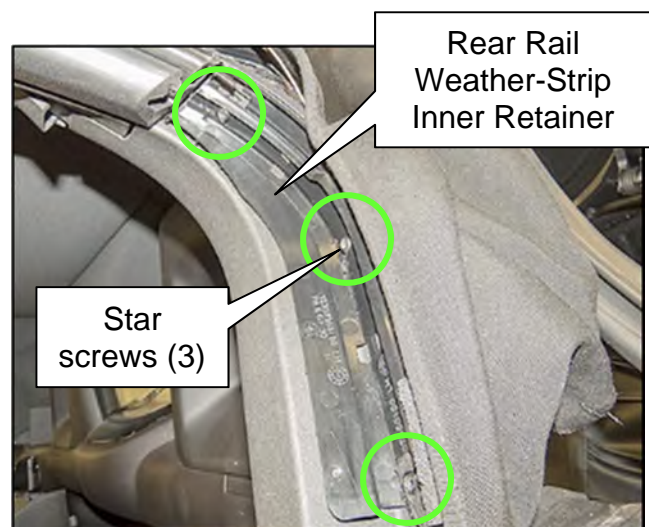


Figure 5

6. Detach the Soft Top Cover Outer retainer from the front side of the Rear Rail.
 - The Soft Top Cover Outer retainer is attached with double sided tape.

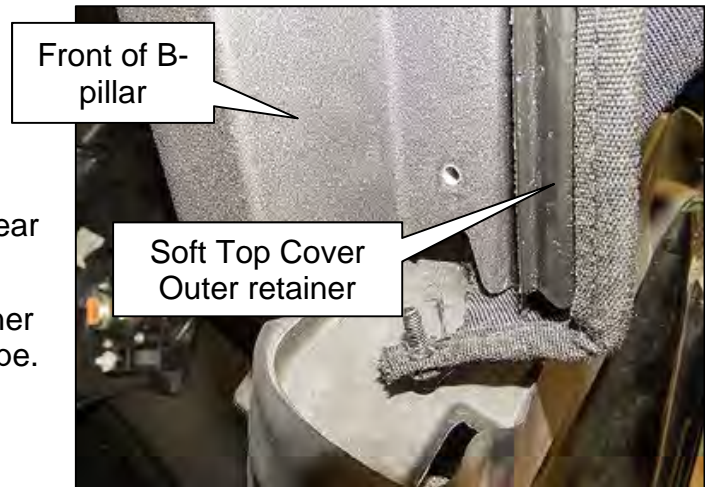


Figure 6

7. Detach the Soft Top Cover Outer extension plate from the Linkage Assembly by sliding it rearward.

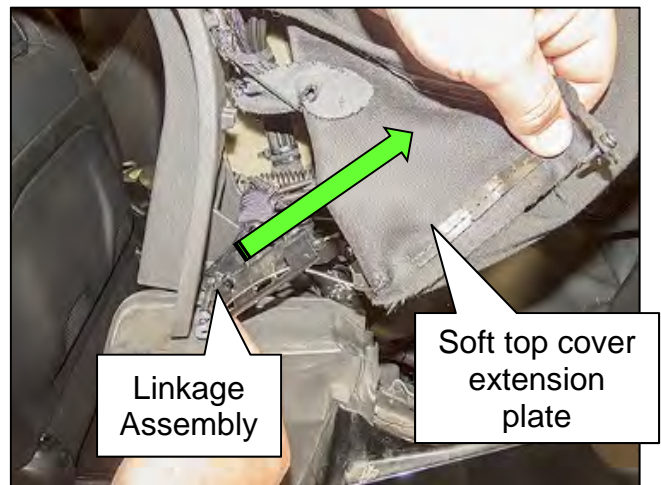


Figure 7

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

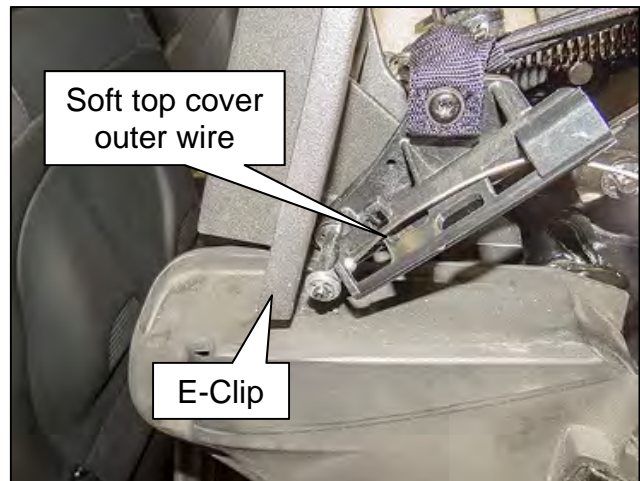


Figure 8

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 page 7.

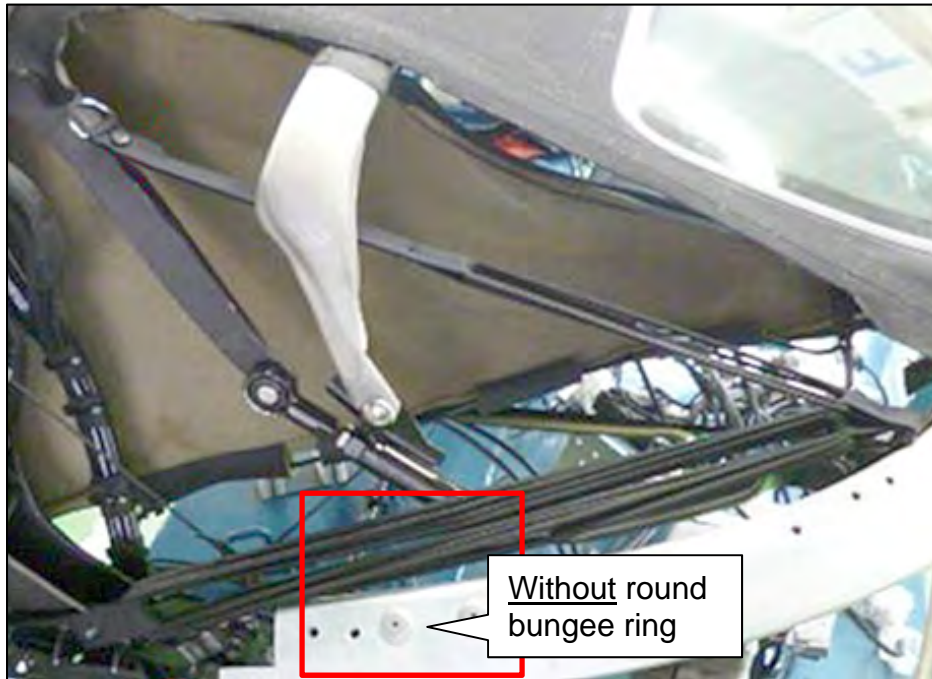


Figure 9

- **Style B:** Vehicles built in May 2015 or later with round bungee ring, proceed to step 18 on page 10.

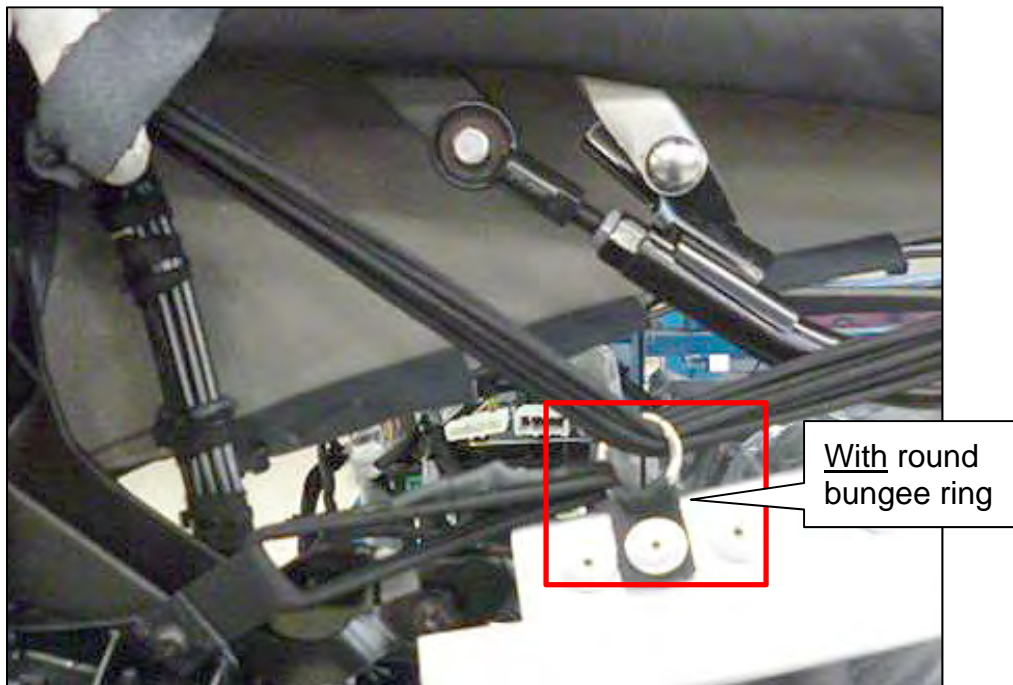


Figure 10

- **Style C:** Vehicles built in June 2017 or later with rectangular bungee ring (not shown), skip to step 26 on page 13.

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 star screw indicated in Figure 11 that retains the bungee strap, and place the screw aside.
HINT: This screw will be reused in step 16.
 - Discard the strap.

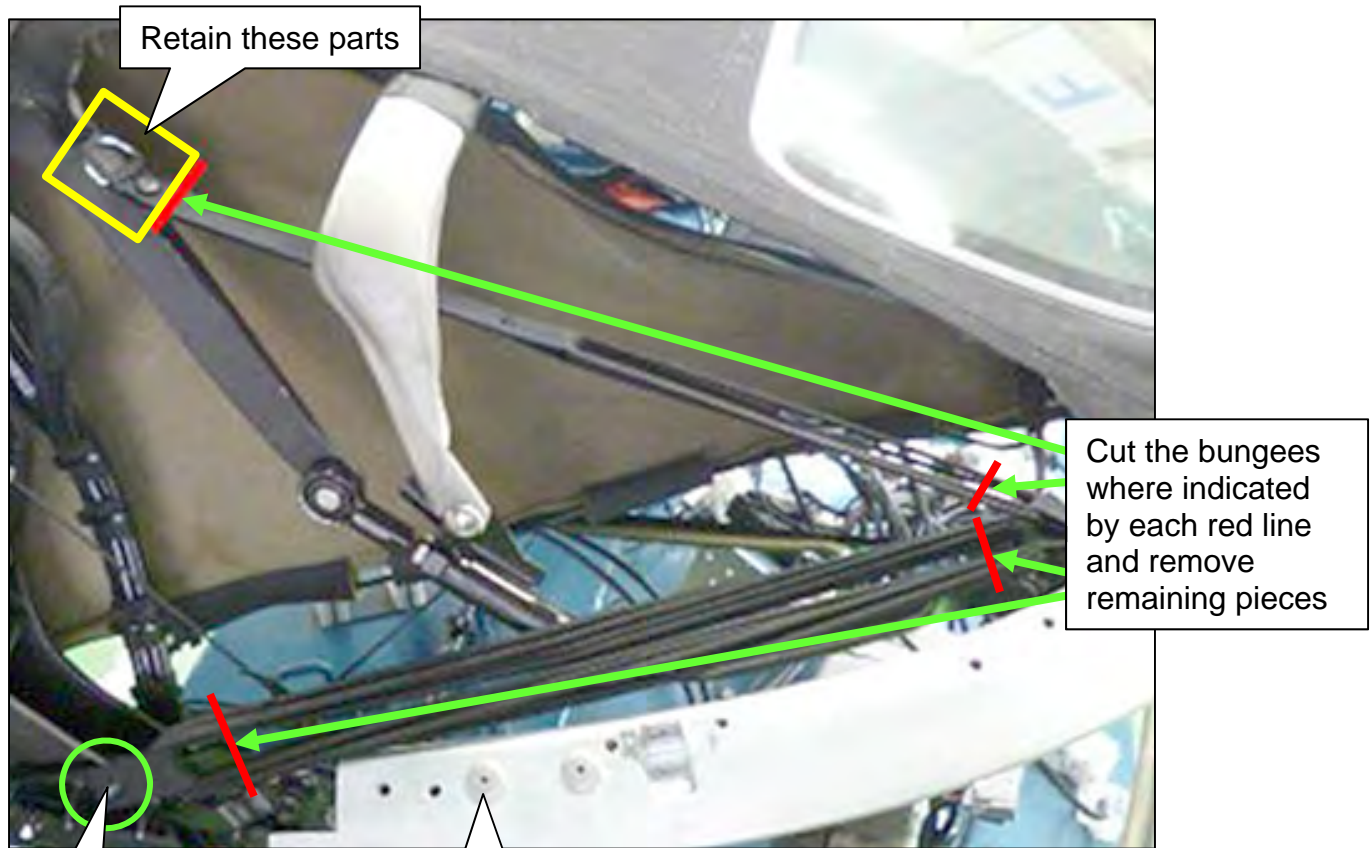


Figure 11

Remove this star screw

Middle rivet to be removed in the next step

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.

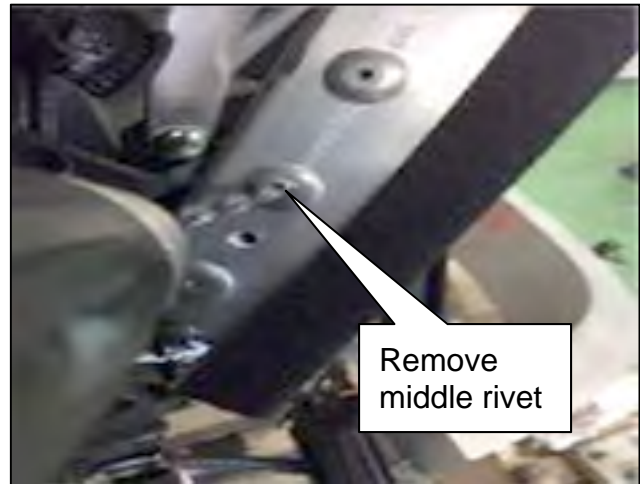


Figure 12

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 under **PARTS INFORMATION** starting on page 106.
- Apply window regulator grease to both sides of the washer.

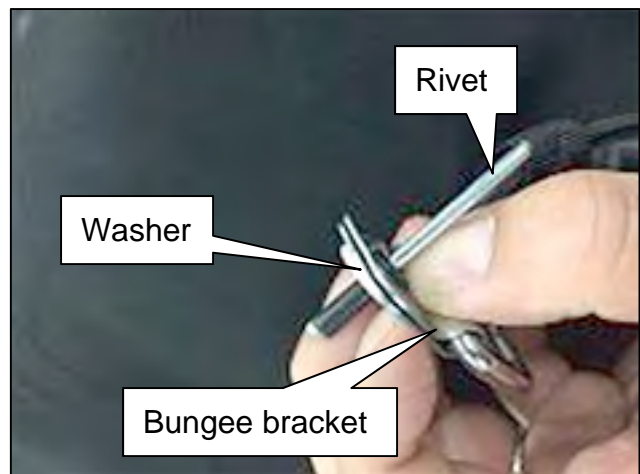


Figure 13

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

HINT: Refer to Figure 14 for bracket orientation.

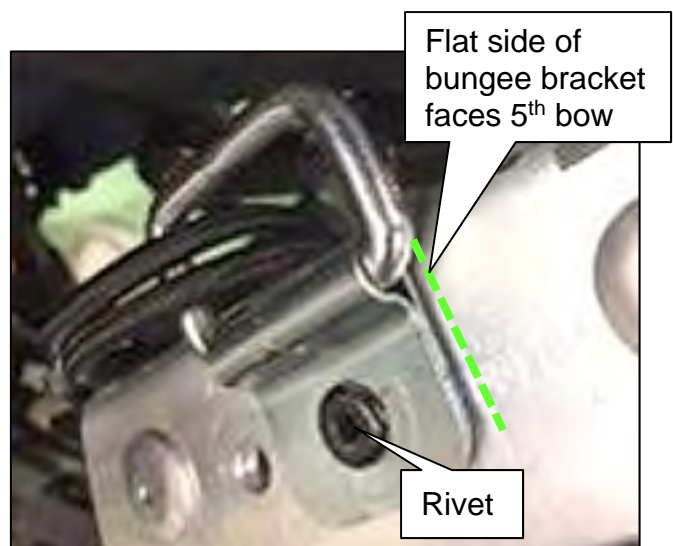


Figure 14

16. Attach the new bungee strap, with the star screw that was put aside in step 12 on page 7, to the same spot that the star screw was removed from.

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

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

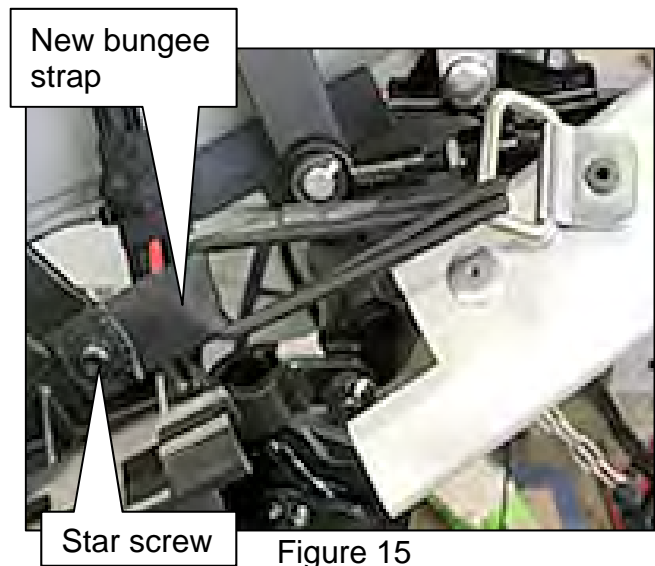


Figure 15

17. Skip to step 26 on page 13.

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

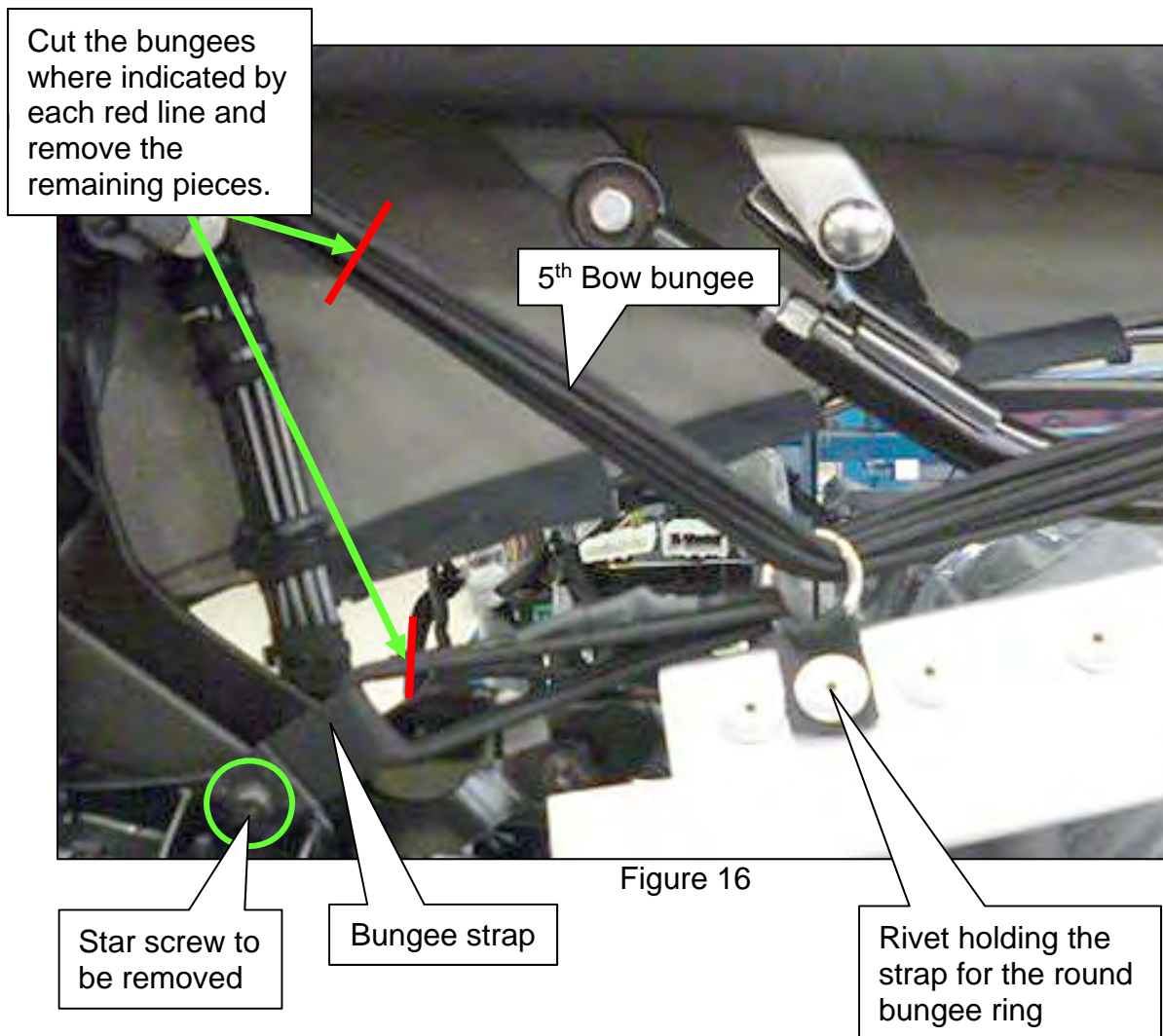
18. Cut through the bungees where indicated in Figure 16 with an appropriate tool.

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

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

HINT: This screw will be reused in step 25.

- Discard the strap.



21. Remove the star screw, indicated in Figure 17, that retains the 5th Bow bungee strap and place the star screw aside.

HINT: This star screw will be reused in step 27 on page 13.

- Discard the strap.



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 under **PARTS INFORMATION** starting on page 106.
- Apply window regulator grease to both sides of the washer.

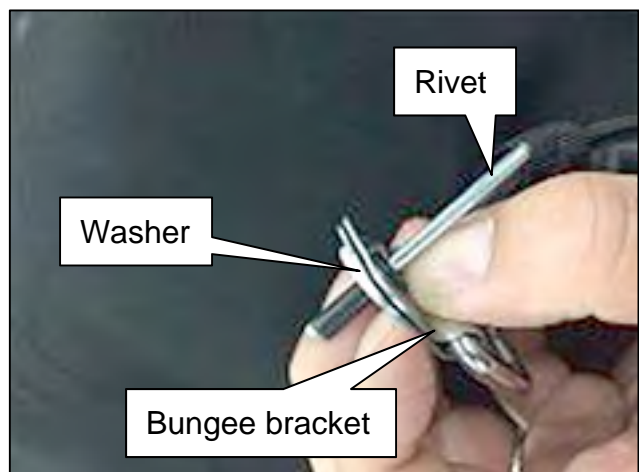


Figure 19

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

HINT: Refer to Figure 20 for bracket orientation.

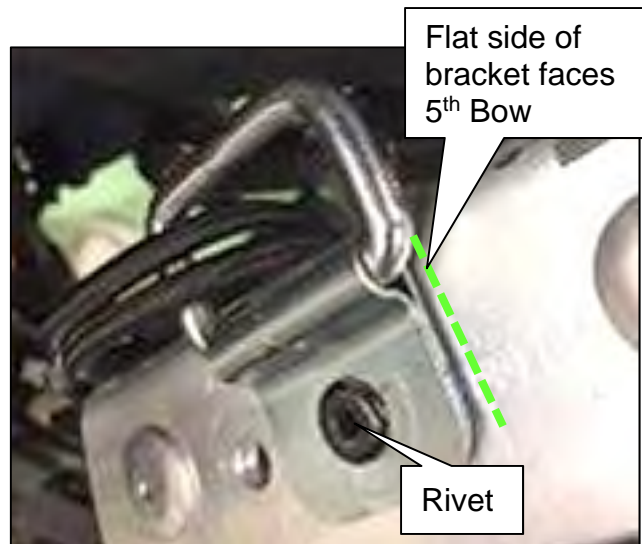


Figure 20

25. Using the star screw that was put aside in step 20 on page 10, attach the new bungee strap to the same spot that the star screw was removed from.

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

NOTICE

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

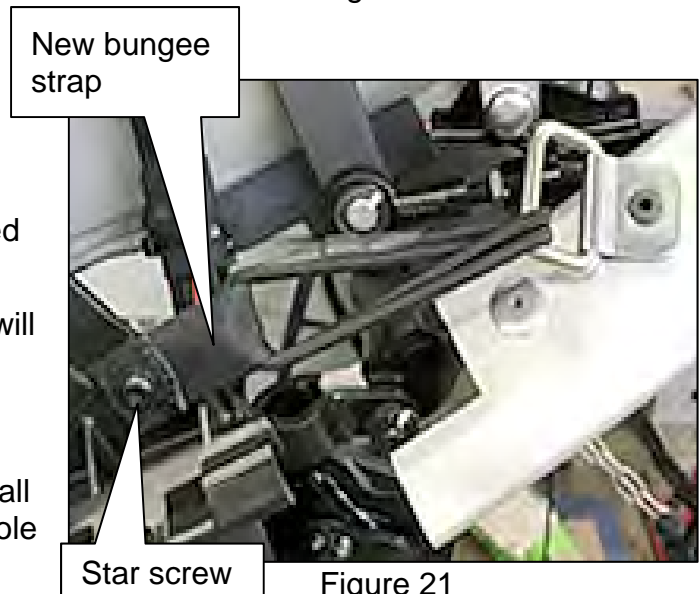


Figure 21

26. Insert the 5th Bow bungee (BUNGEE-5TH BOW) through the bracket assembly installed in step 15 on page 8 (Style A) or in step 24 on page 12 (Style B) (Figure 22).

- Reference number 4 under **PARTS INFORMATION** starting on page 106.

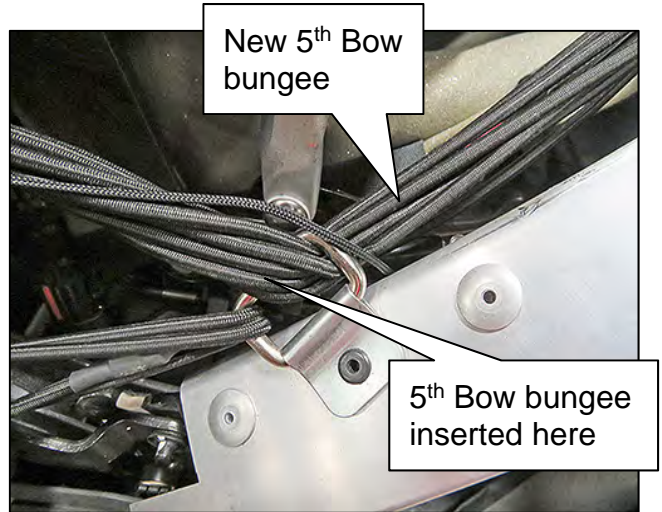


Figure 22

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 the star screw to attach the new bungee.

NOTICE

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



Figure 23

28. Remove the star screw shown in Figure 24.

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

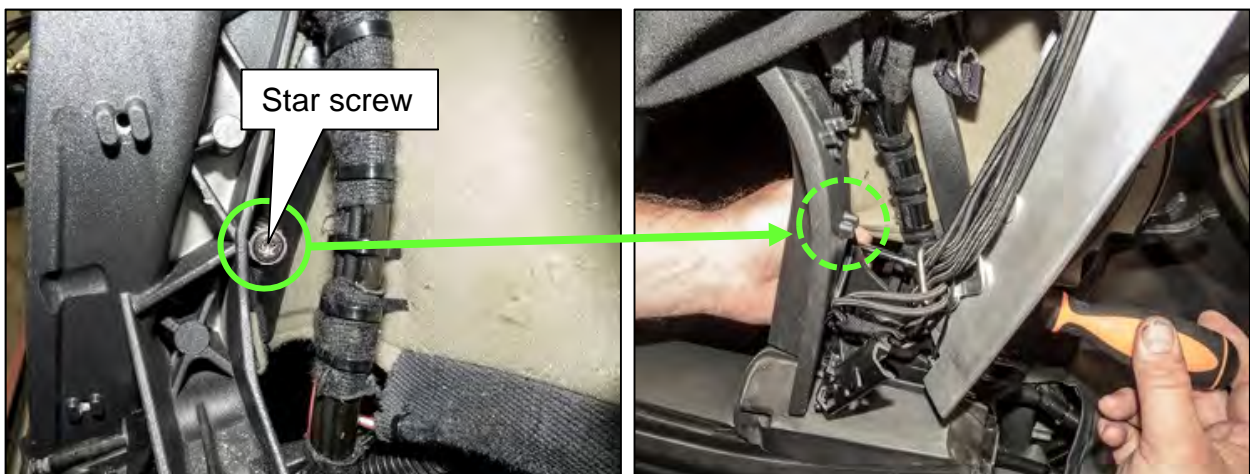


Figure 24

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 under **PARTS INFORMATION** starting on page 106.

NOTICE

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

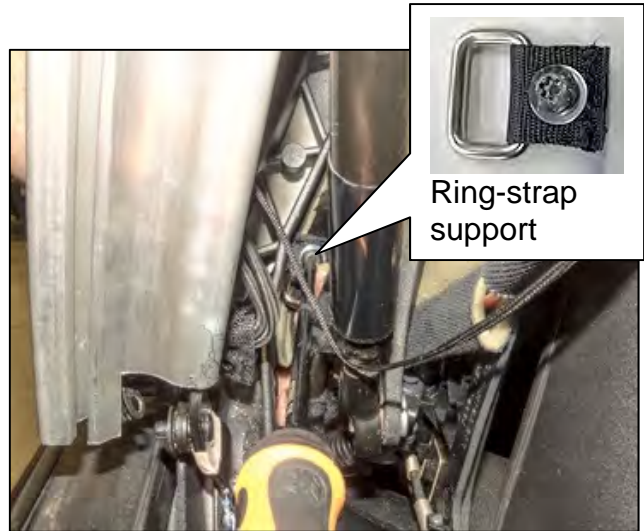


Figure 25

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) under **PARTS INFORMATION** starting on page 106.

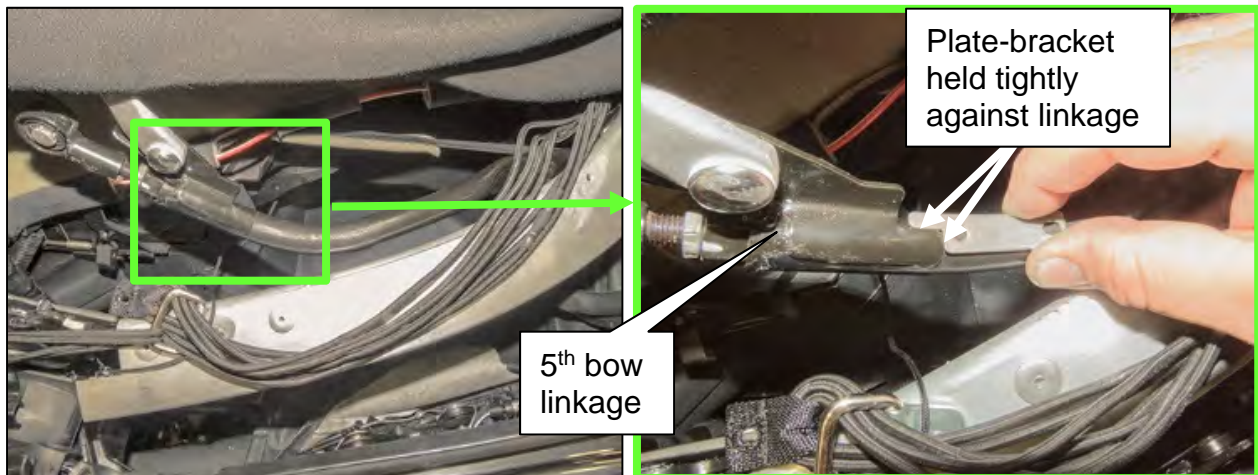


Figure 26

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 on page 14.
- 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 under **PARTS INFORMATION** on page 108.

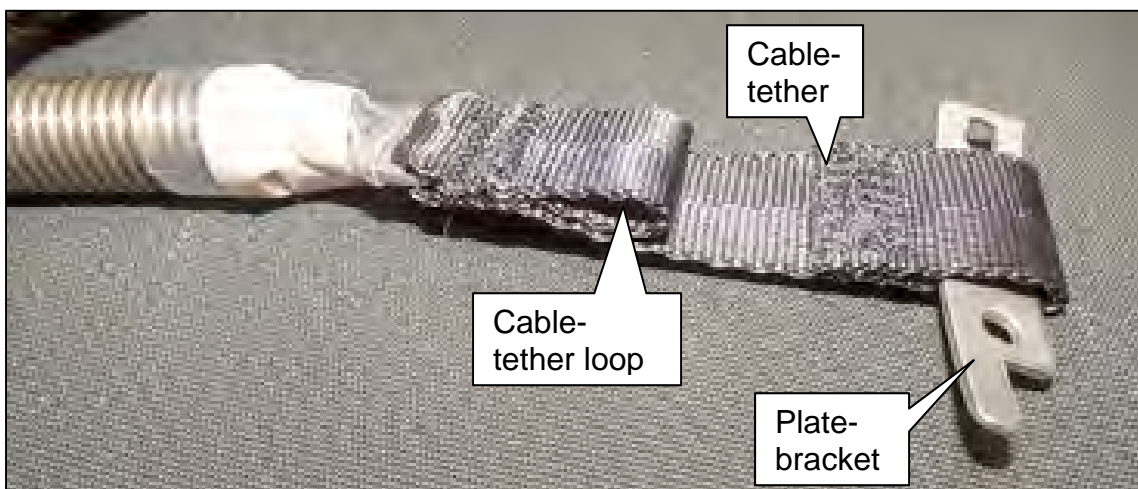


Figure 30

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 under **PARTS INFORMATION** on page 108.
35. Temporarily route the cable-tether (Figure 31).
- The cable-tether will wrap around the 5th Bow linkage and rest on top of the 5th Bow.

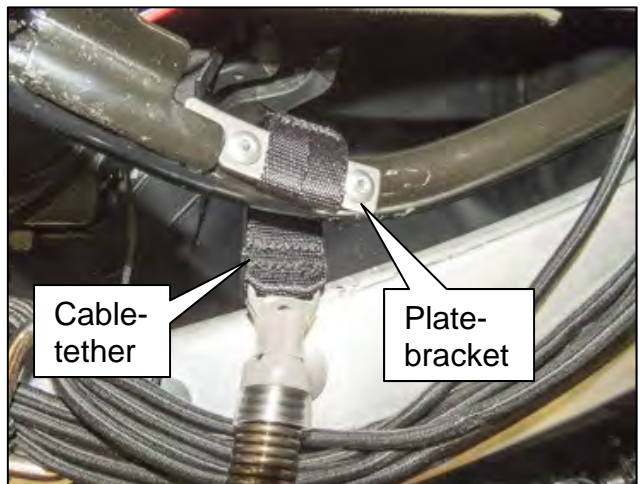


Figure 31

36. Measure the gap between the base of the 5th bow linkage joint to the flange, as shown in Figure 33.
- Is the gap 29 mm (+/-1 mm)?
YES: Skip to step 41 on page 17.
NO: Proceed to step 37.
37. Remove the push-nut and then pull the link-pin out of the 5th Bow linkage joint (Figure 32).
38. Loosen the lock nut.

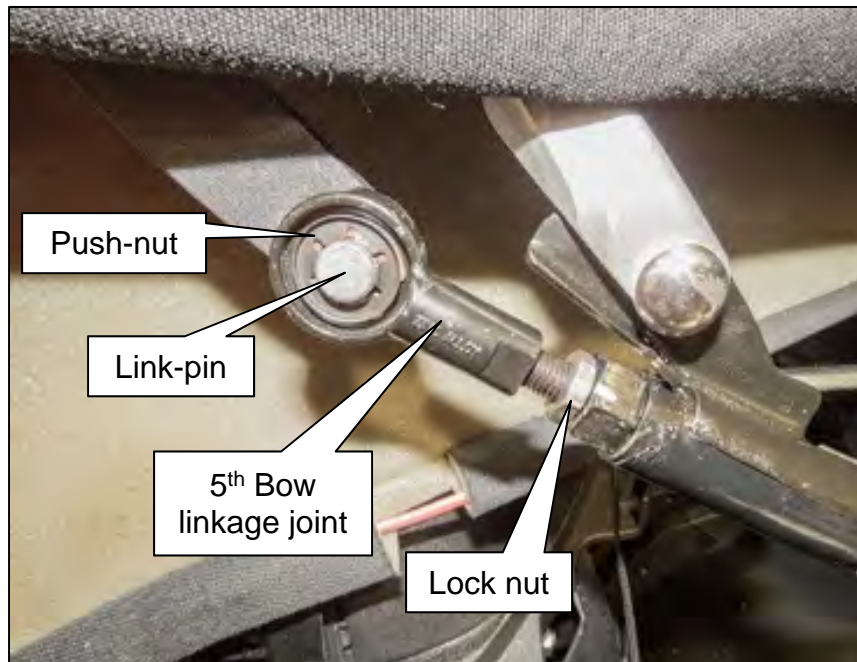


Figure 32

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, as shown in Figure 33.
40. After adjustment has been completed, reassemble the 5th Bow linkage joint.
- Reference number 10 under **PARTS INFORMATION** on page 108.

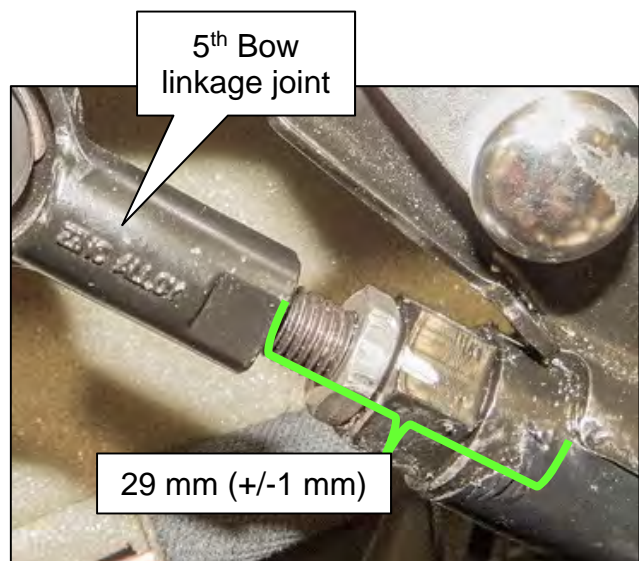


Figure 33

41. Install the 12 mm cover-bolt onto the 5th Bow linkage (Figure 34).
- Reference number 11 under **PARTS INFORMATION** on page 108.

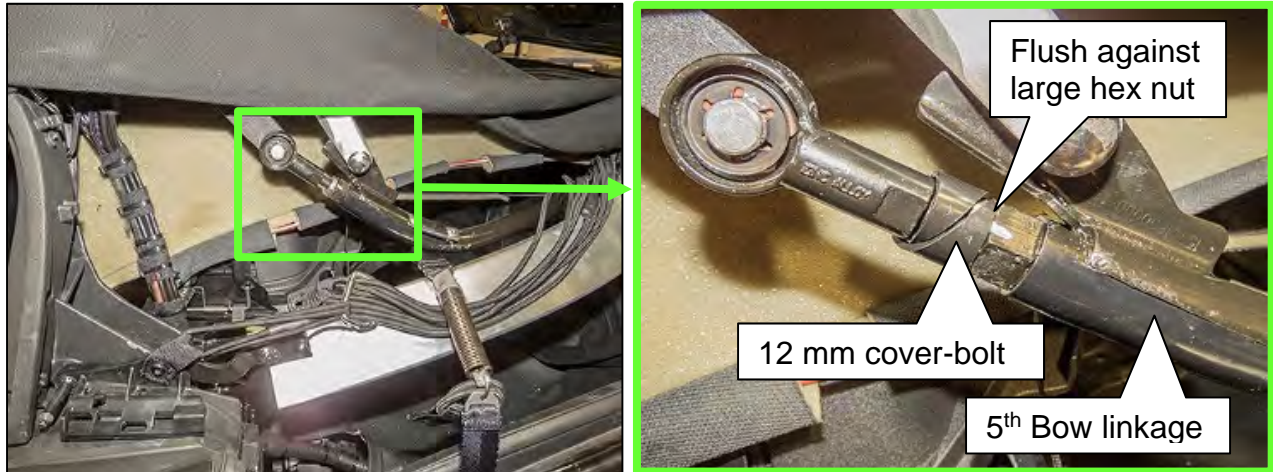


Figure 34

42. Install the 21 mm cover-bolt over the 12 mm cover-bolt (Figure 35).
- Reference number 12 under **PARTS INFORMATION** on page 108.

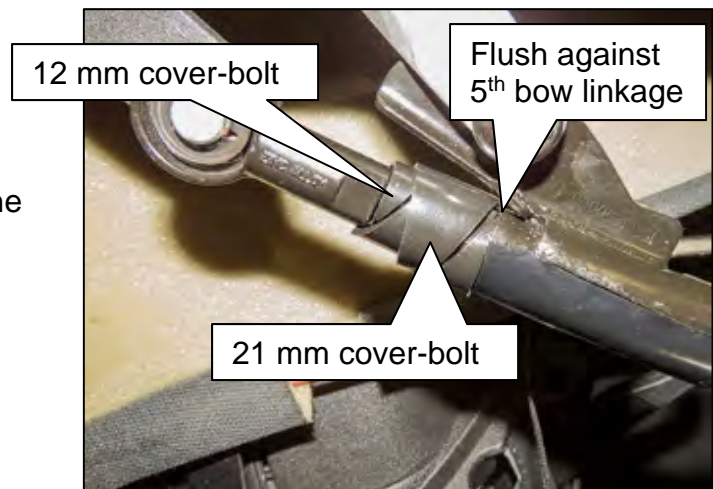


Figure 35

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 under **PARTS INFORMATION** on page 108.

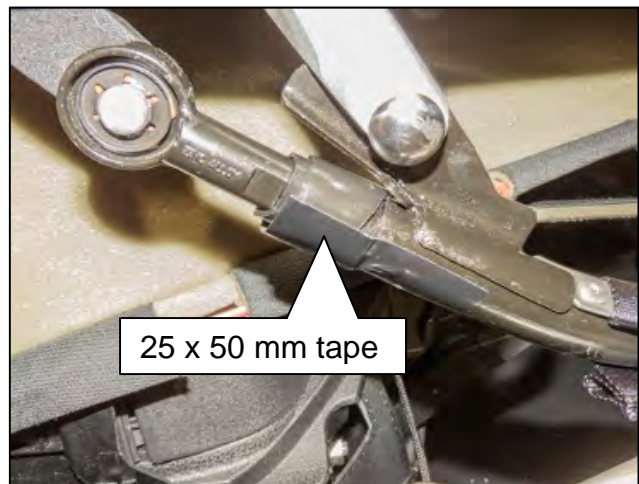


Figure 36

44. Wrap the end of the cover-bolts with a 160 mm piece of Felt Tape.
- Reference number 14 under **PARTS INFORMATION** on page 108.
 - Trim the Felt Tape to 160 mm before wrapping the cover-bolts.

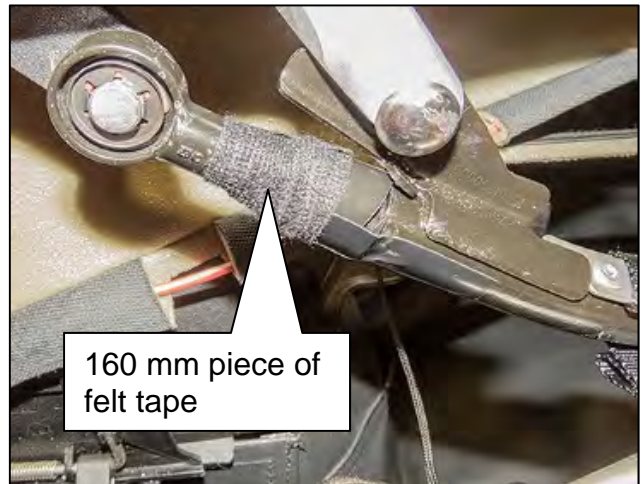


Figure 37

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

HINT: This star screw will be reused in step 48 on page 19.



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.

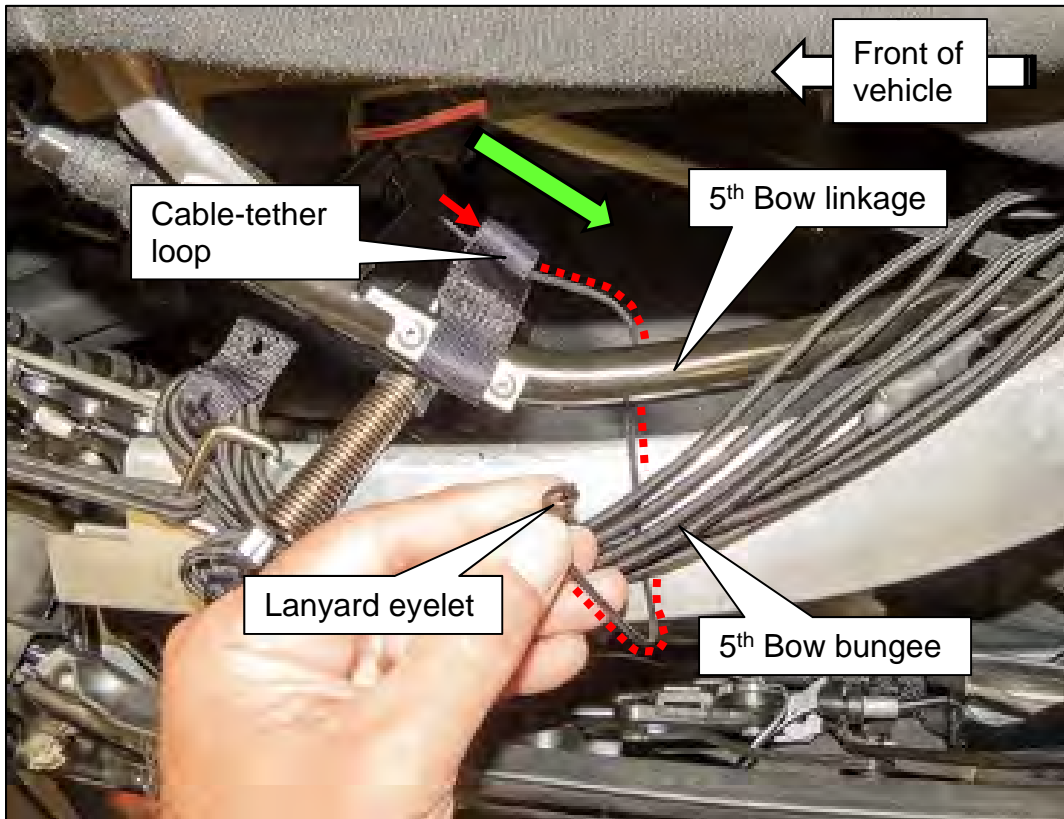


Figure 39

48. Insert the star screw removed in step 45 on page 18 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 star screw.

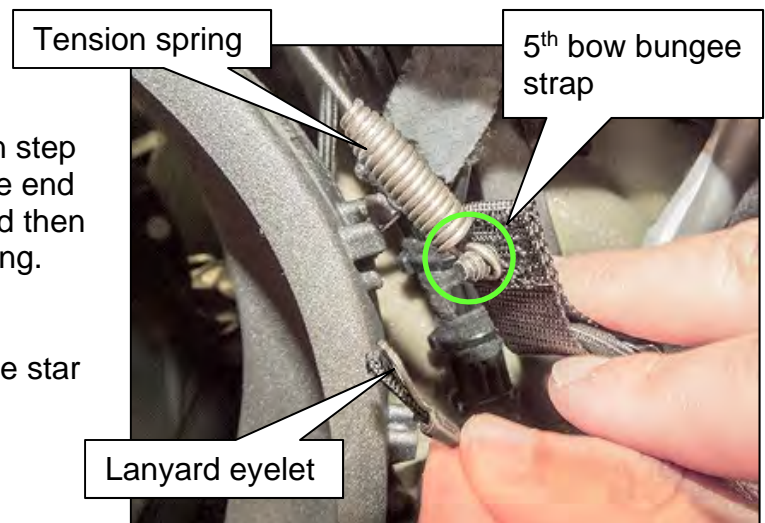


Figure 40

50. Position the Soft Top location strap under the lanyard eyelet attachment point that the star screw was removed from in step 45 on page 18.

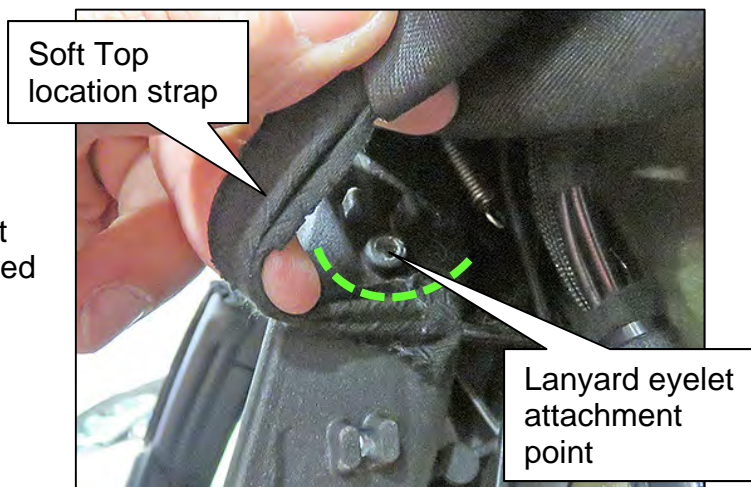


Figure 41

51. Attach the 5th Bow bungee, tension spring and lanyard eyelet, assembled in step 48 and step 49 on page 19, as shown in Figure 42.
- Star screw torque: 3 N•m (0.3 kg-m, **26.6 in-lb**)

NOTICE

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

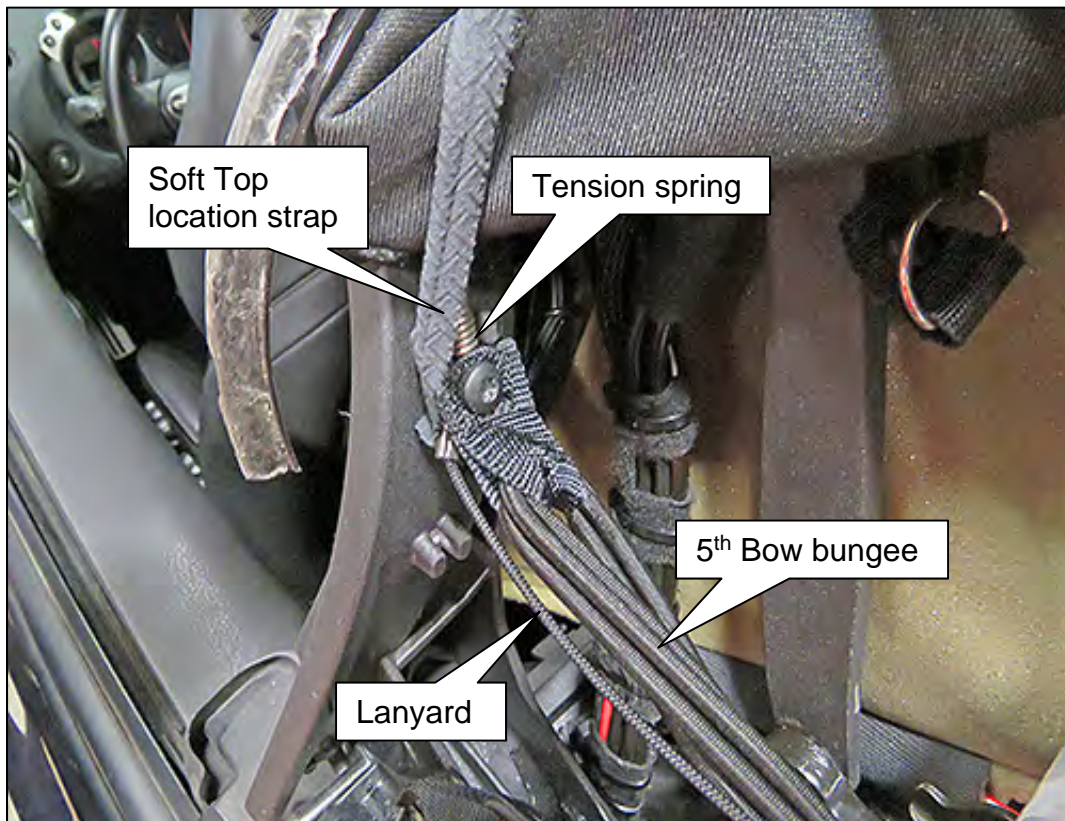


Figure 42

52. Remove the lightly tightened star screw attaching the bracket bungee strap, attached in step 25 on page 12.

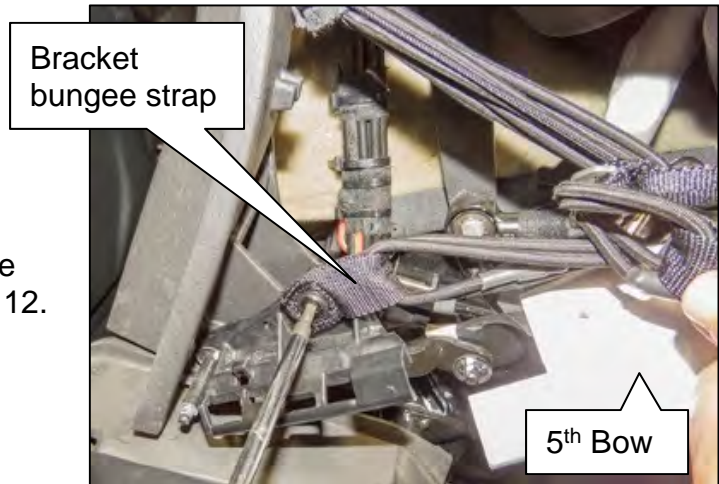


Figure 43

53. Insert the star 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.

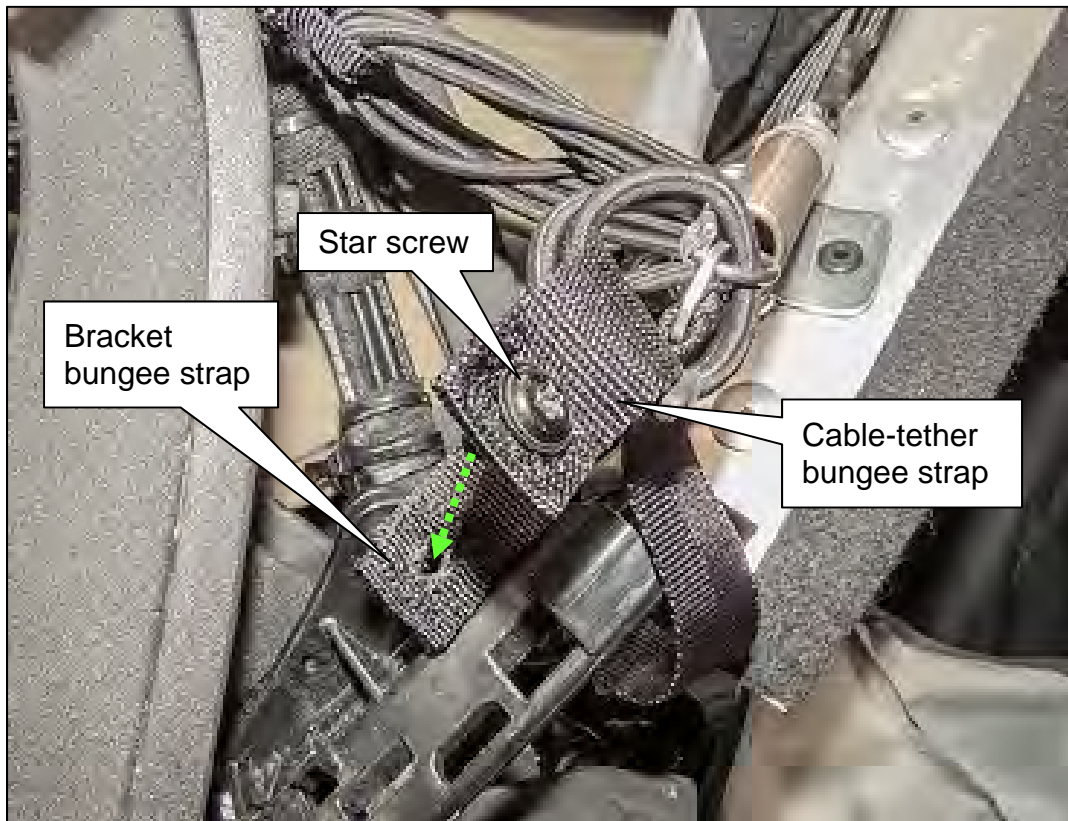


Figure 44

Cable-tether bungee strap and bracket bungee strap assembly

54. Attach the cable-tether bungee strap and bracket bungee strap assembly to the point the star screw was removed from in step 52 on page 21.

NOTICE

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

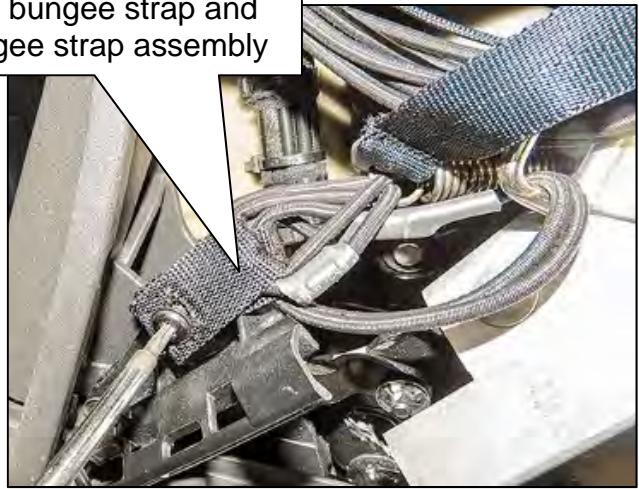


Figure 45

55. Route the cable-tether strap as shown in Figure 46, and then between the rear rail and the 5th Bow linkage, as shown in Figure 47.

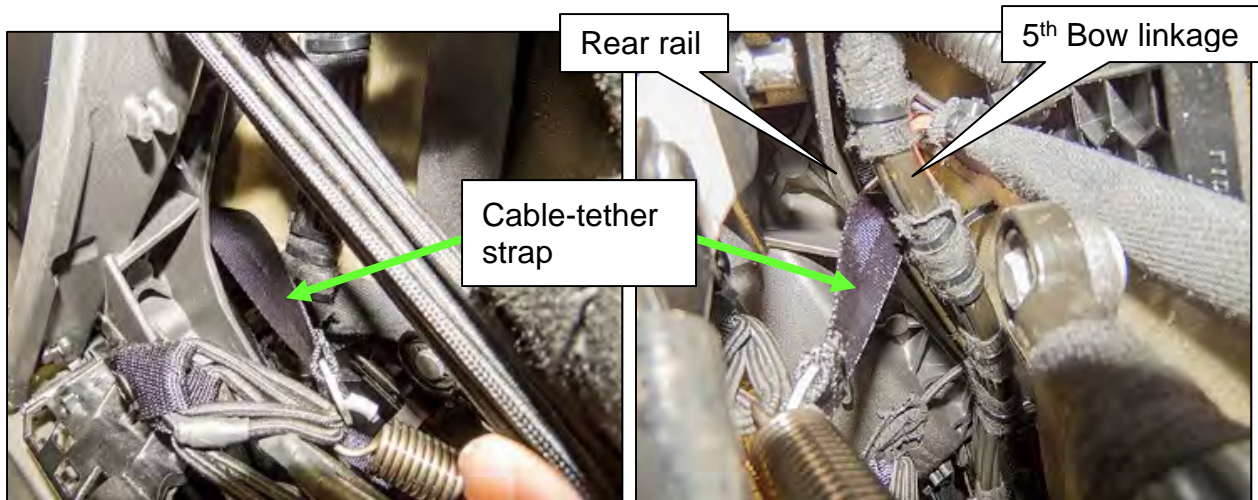


Figure 46

Figure 47

56. Insert the cable-tether strap through the ring-strap support attached in step 29 on page 14.
- Insert the cable-tether strap from the top to bottom, and then remove any twisting from the cable-tether strap.

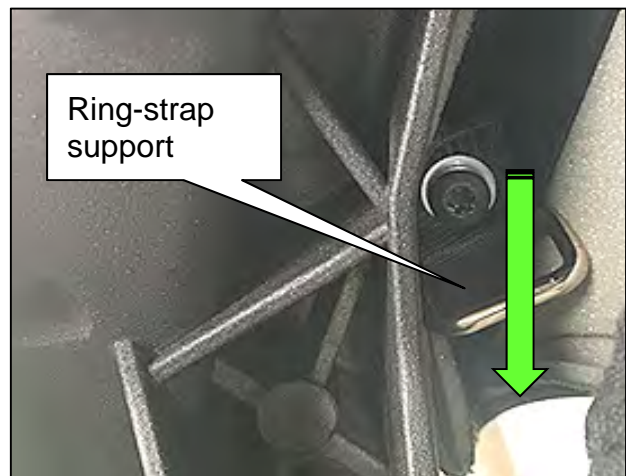


Figure 48

57. Remove the kicking plate inner.
- Refer to the ESM: **REPAIR > BODY INTERIOR > INTERIOR > REMOVAL AND INSTALLATION > KICKING PLATE INNER**

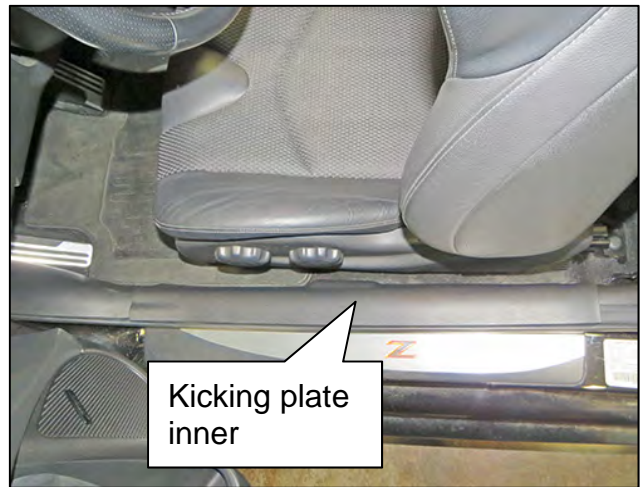


Figure 49

58. Remove the rear side finisher.
- 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.

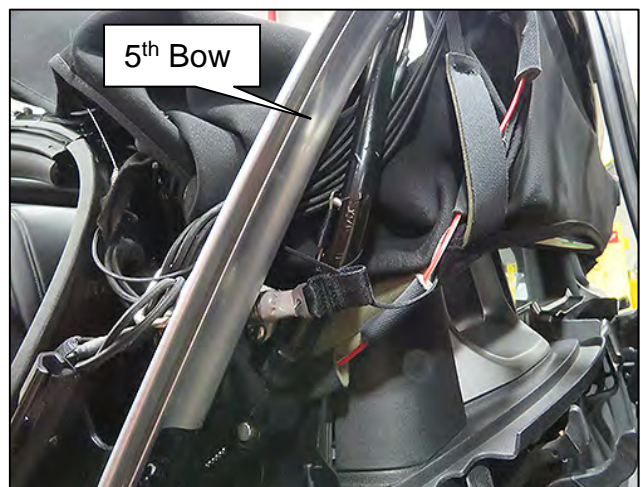


Figure 51

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

- Figure 52 and Figure 53 show two views of the bolt hole 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.

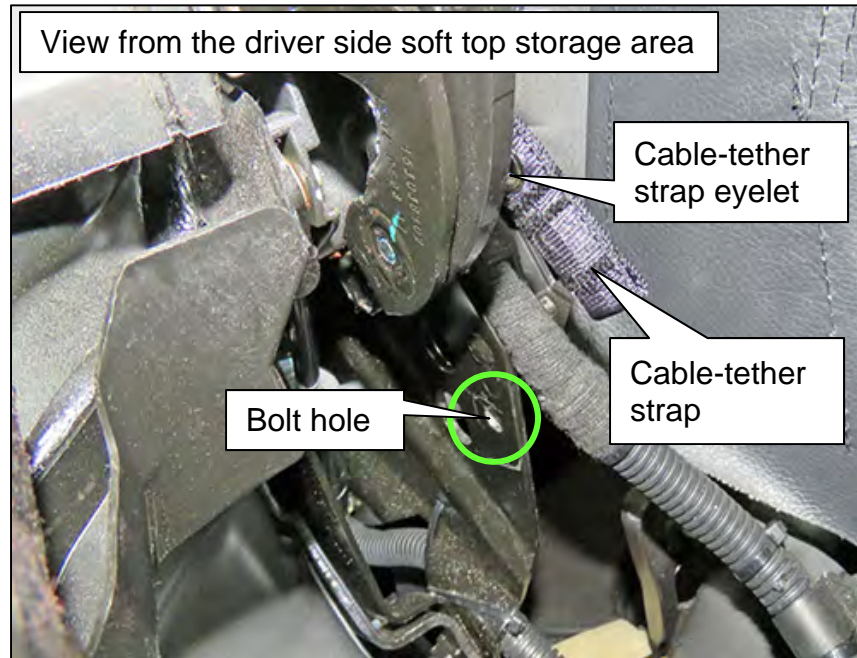


Figure 52

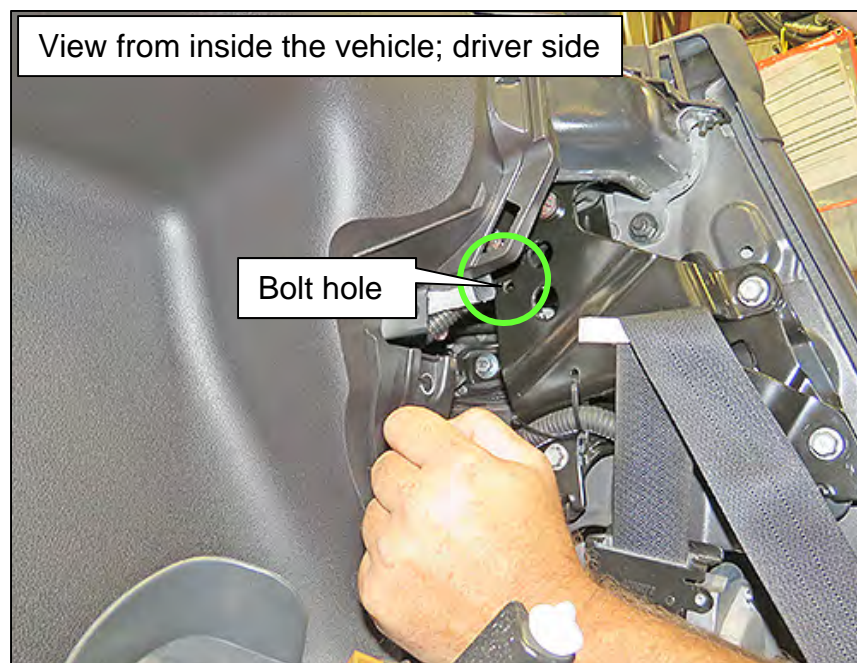


Figure 53

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 on page 24.
 - 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 (Figure 54 and Figure 55).
 - Reference number 15 under **PARTS INFORMATION** on page 109.
61. Thread one (1) nut (NUT-SPL) onto BOLT-SPL.
 - Reference number 16 under **PARTS INFORMATION** on page 109.

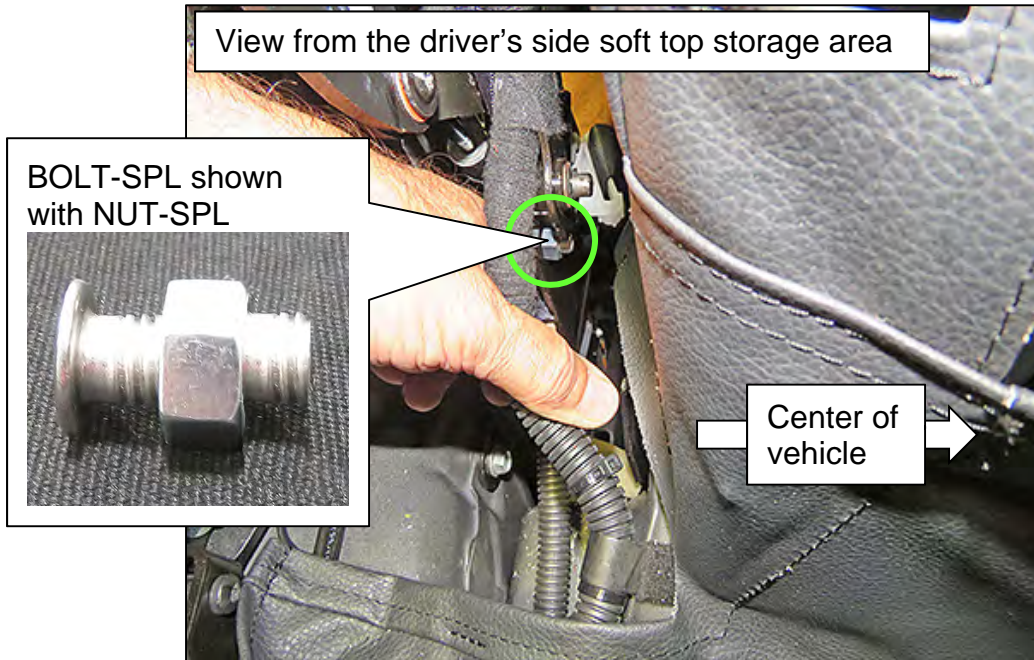


Figure 54

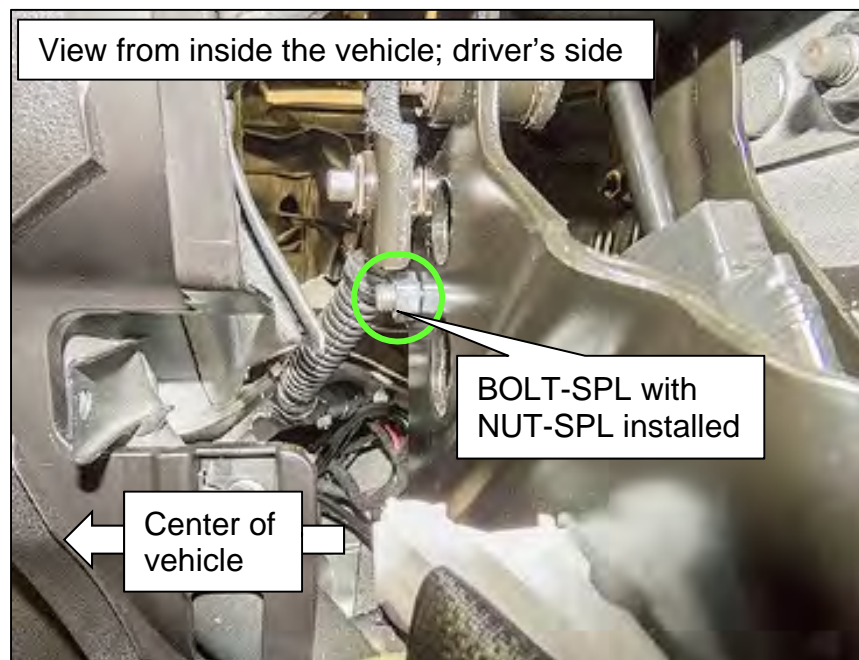


Figure 55

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.

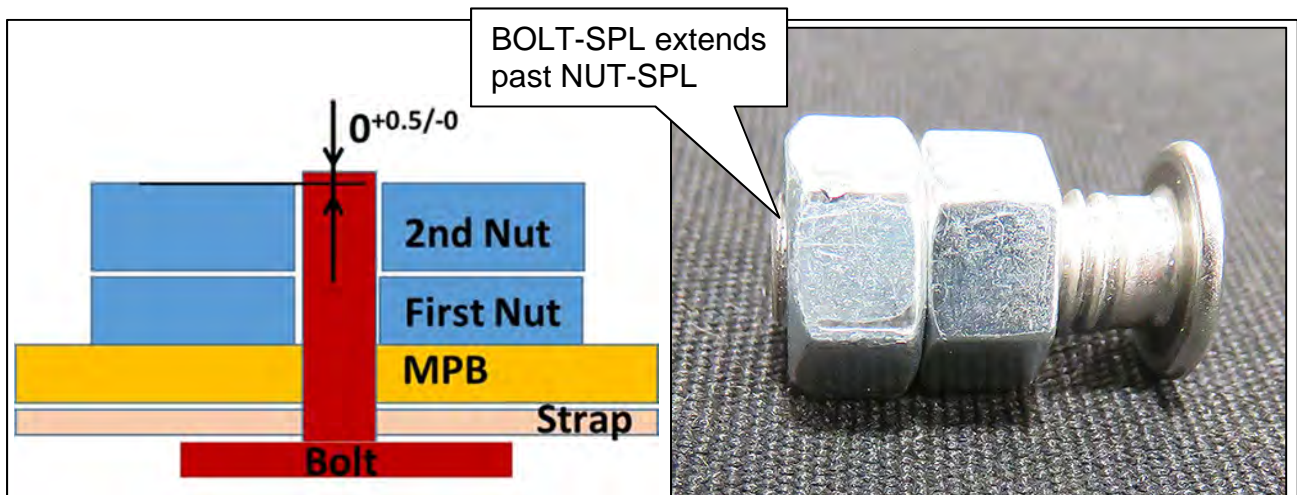


Figure 57

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 under **PARTS INFORMATION** on page 109.

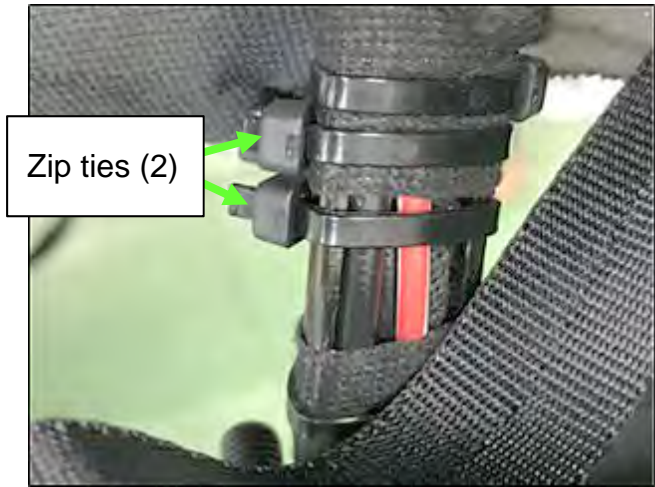


Figure 58

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

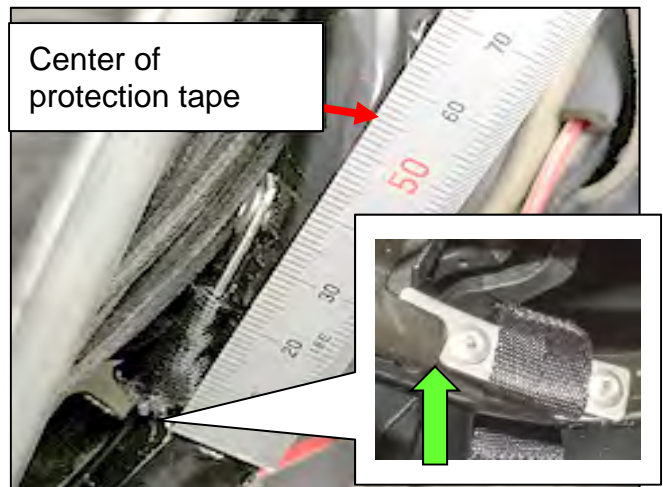


Figure 59

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 under **PARTS INFORMATION** on page 109.



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.

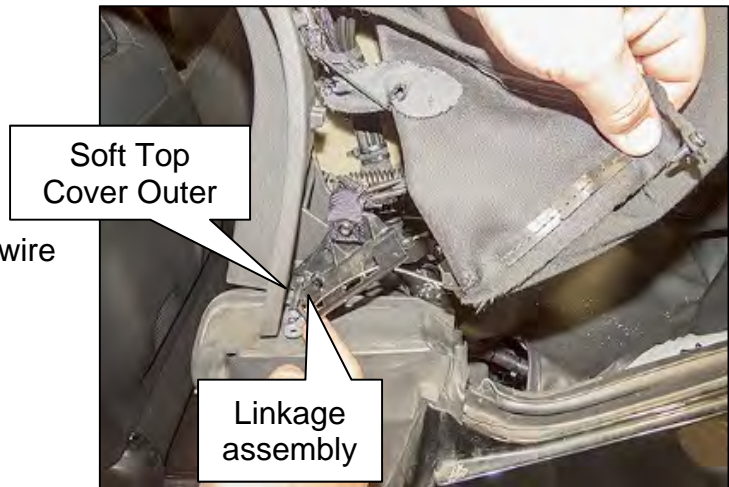


Figure 62

69. Attach the Soft Top Cover Outer wire, and then the E-Clip to the linkage assembly.

- Reference number 19 under **PARTS INFORMATION** on page 109.

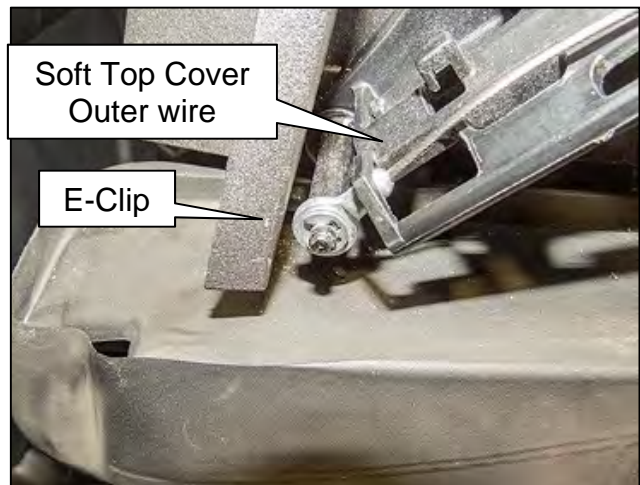


Figure 63

70. Reattach the Soft Top Cover Outer to the front side of the Rear Rail and the side cover extension plate.

- The side cover extension plate is hidden by the Soft Top in Figure 64.

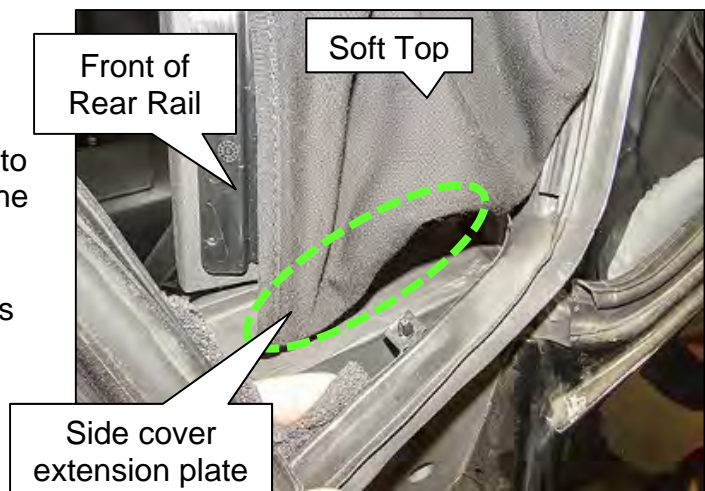


Figure 64

71. Install the Rear Rail Weather-Strip Inner Retainer with three (3) star screws.

NOTICE

Do not use powered tools to install the star screw. The star screw hole is easily damaged by over-torquing and/or misalignment. Damage to the star screw hole may require a replacement of the Soft Top assembly.

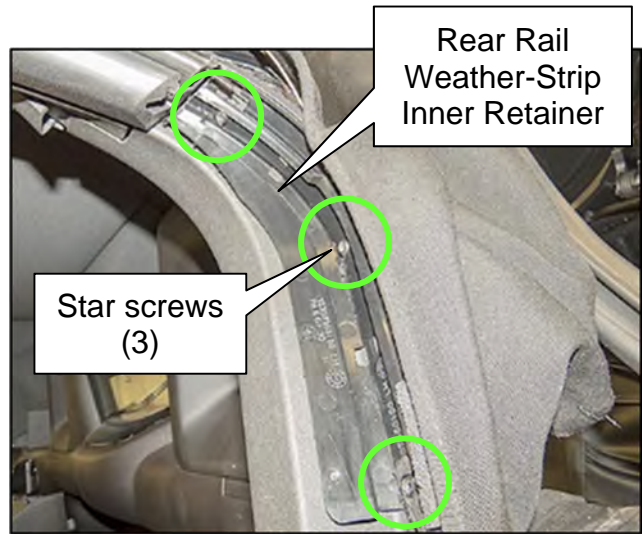


Figure 65

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 under **PARTS INFORMATION** on page 109.

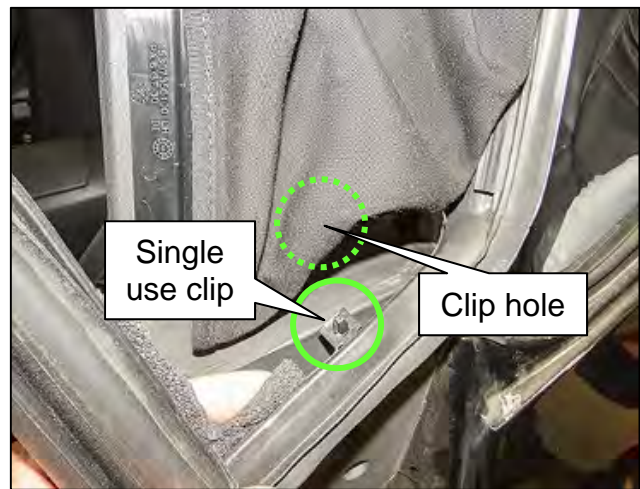


Figure 68

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 (Figure 68).



Figure 69

76. Reattach the front side of the Rear Rail Weather-Strip to the window Rear Rail.



Figure 70

77. Repeat steps 1-76 for the passenger (RH) side.

End of Replace the Soft Top Bungees Only SERVICE PROCEDURE. Skip to the CLAIMS INFORMATION.

Replace the Soft Top Bungees and Both Rear Rails

HINT: Work on one side of the Soft Top at a time.

- The view of the **SERVICE PROCEDURE** is from the driver (LH) side. The passenger (RH) side is similar.
- Some components will not be reattached until after the new Rear Rail is installed.
- 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**

78. Detach the front side of the Rear Rail Weather-Strip from the Rear Rail.

NOTE: Leave this component detached until after the Rear Rail is replaced later in this **SERVICE PROCEDURE**.

- Open the Soft Top half way to help with detachment.



Figure 71

79. Unclip the single use clip (Figure 72).

NOTE: Leave this component detached until after the Rear Rail is replaced later in this **SERVICE PROCEDURE**.

- This clip will be replaced later in this procedure.

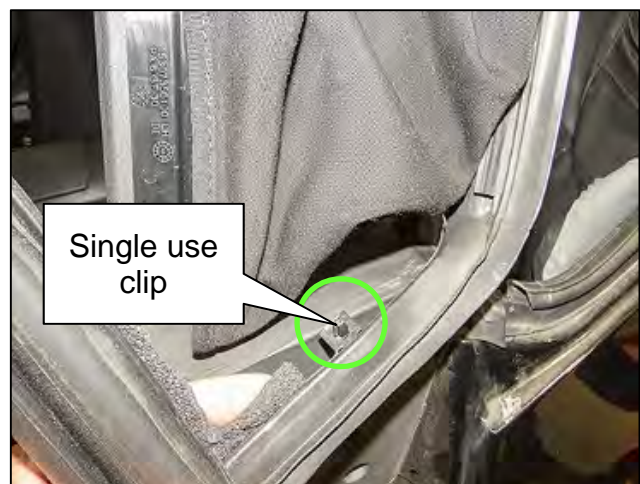


Figure 72

80. Detach the back side of the Rear Rail Weather-Strip from the 5th Bow.

NOTE: Leave this component detached until after the Rear Rail is replaced later in this **SERVICE PROCEDURE**.



Figure 73

81. Detach the edge of the Soft Top Cover Outer from the inside edge of the 5th Bow.

NOTE: Leave this component detached until after the Rear Rail is replaced later in this **SERVICE PROCEDURE**.



Figure 74

82. Remove the three (3) star screws that retain the Rear Rail Weather-Strip Inner Retainer, and then remove it.

NOTE: Leave this component detached until after the Rear Rail is replaced later in this **SERVICE PROCEDURE**.

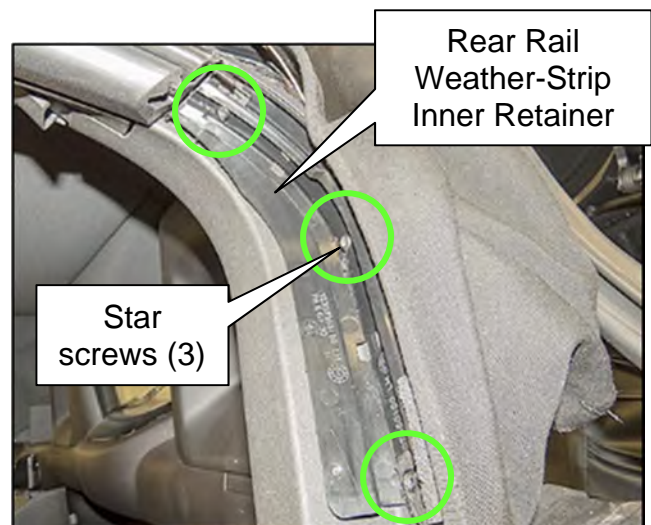


Figure 75

83. Detach the Soft Top Cover Outer retainer from the front side of the Rear Rail.

NOTE: Leave this component detached until after the Rear Rail is replaced later in this **SERVICE PROCEDURE**.

- The Soft Top Cover Outer retainer is attached with double sided tape.

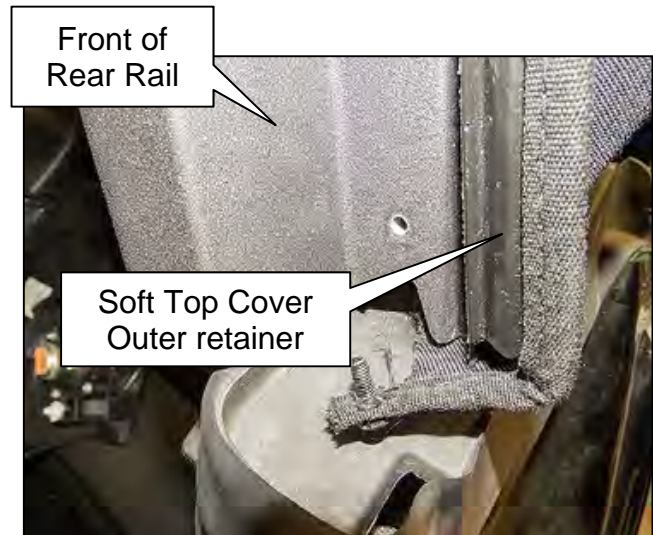


Figure 76

84. Detach the Soft Top Cover Outer extension plate from the Linkage Assembly by sliding it rearward.

NOTE: Leave this component detached until after the Rear Rail is replaced later in this **SERVICE PROCEDURE**.

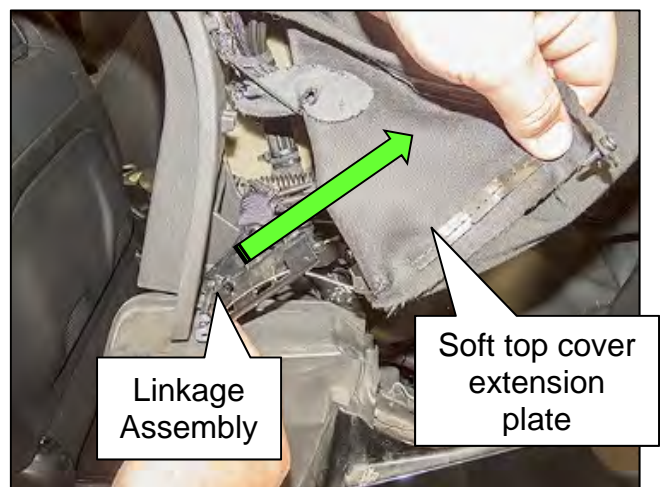


Figure 77

85. Remove the cable end E-clip and then detach the cable end from the base of the Rear Rail (Figure 79).

NOTE: Leave this component detached until after the Rear Rail is replaced later in this **SERVICE PROCEDURE**.



Figure 78

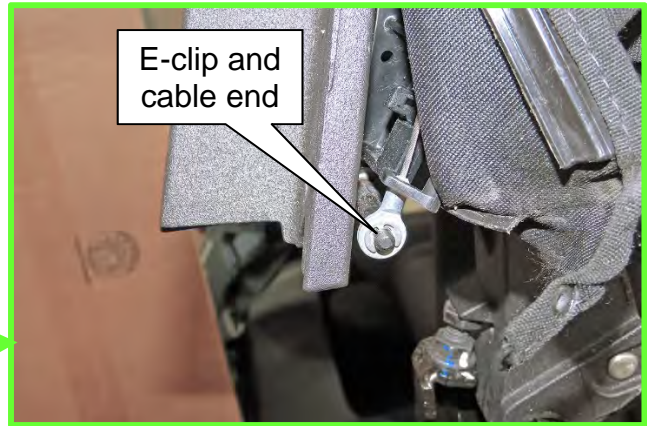


Figure 79

86. Route the cable end through the plastic Soft Top Linkage Assembly as shown in Figure 80 and Figure 81.

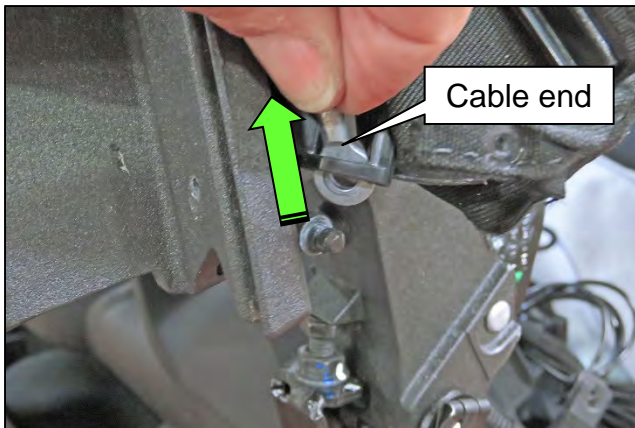


Figure 80



Figure 81

87. Detach the Soft Top from the Soft Top Linkage Assembly, and then fold the Soft Top up and out of the way.

NOTE: Leave this component detached until after the Rear Rail is replaced later in this **SERVICE PROCEDURE**.

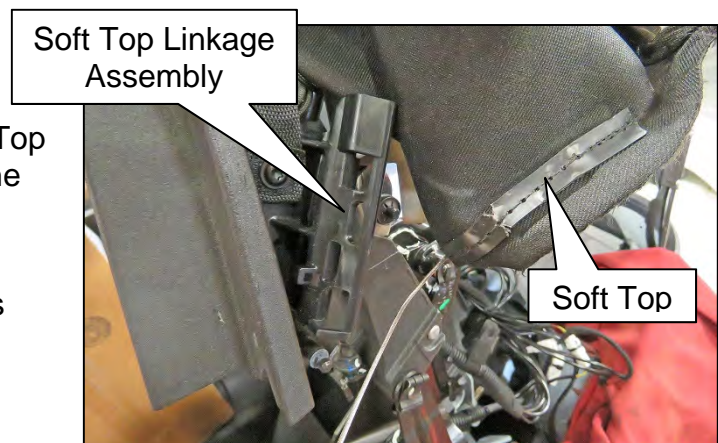


Figure 82

There are three different 5th Bow bungee styles for the **APPLIED VEHICLES**. Refer to Figure 83 and Figure 84 and confirm which style is being updated (**Style C** not shown).

88. Confirm which Soft Top style is being updated.

- **Style A:** Vehicles built in April 2015 or earlier, proceed to step 89 on page 36.

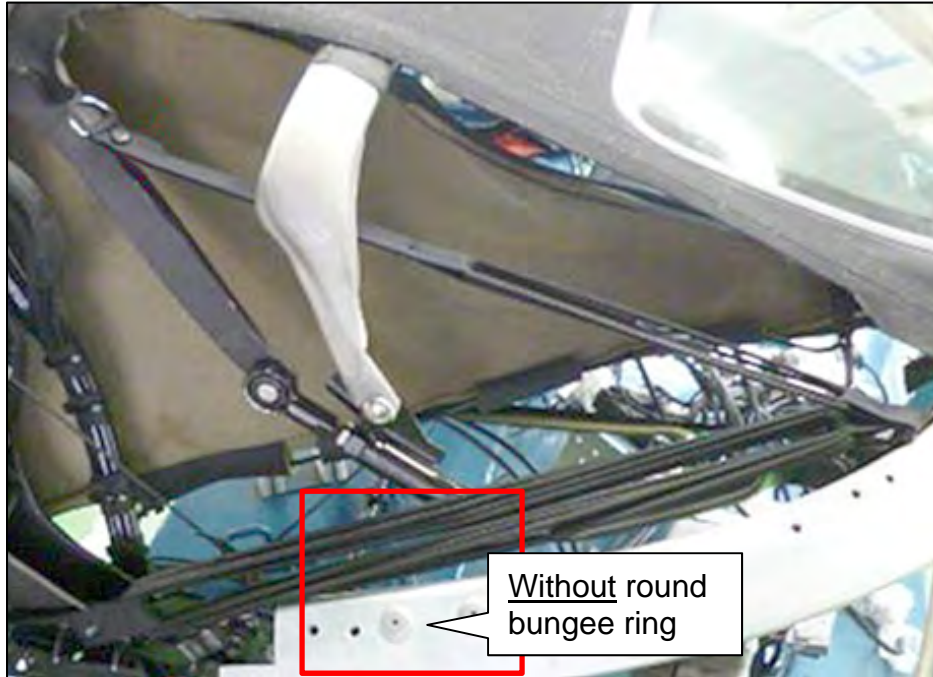


Figure 83

- **Style B:** Vehicles built in May 2015 or later with round bungee ring, proceed to step 97 on page 39.

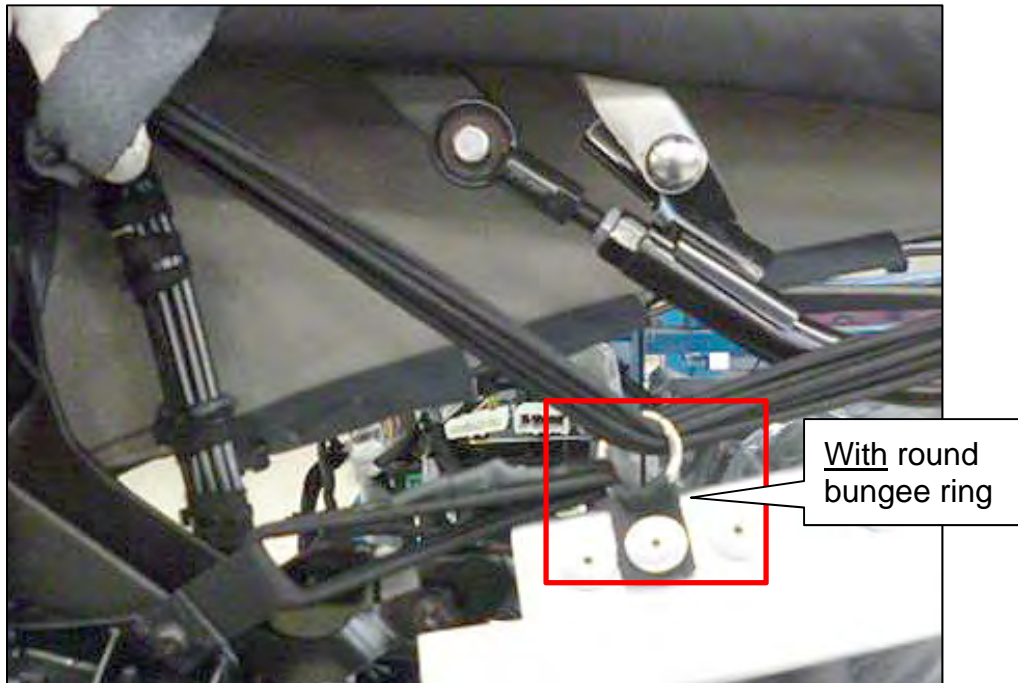


Figure 84

- **Style C:** Vehicles built in June 2017 or later with rectangular bungee ring (not shown), skip to step 105 on page 42.

Style A: Steps 89-96 are for vehicles with Style A 5th Bow bungee. Vehicles built in April 2015 or earlier.

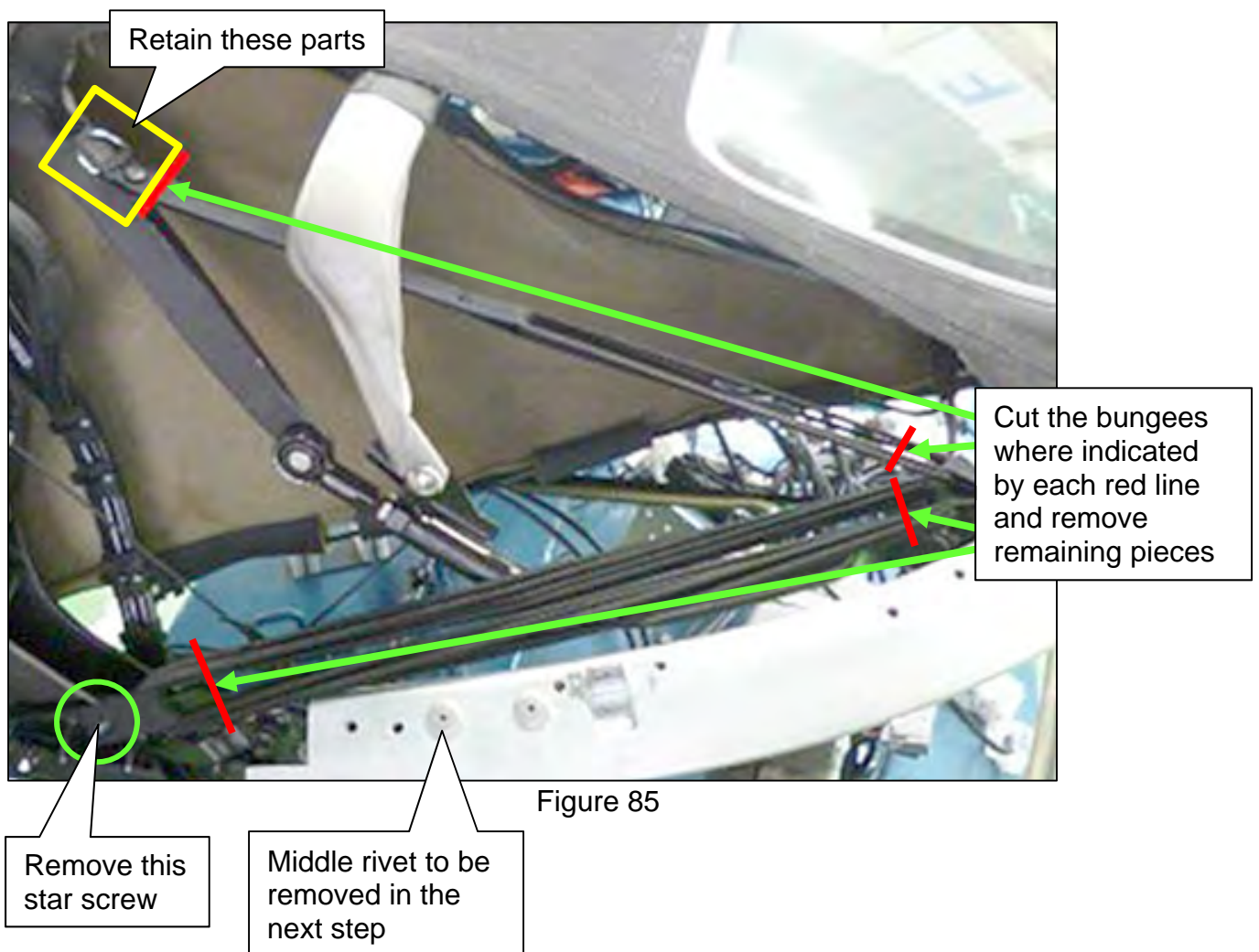
89. Cut through the bungees where indicated in Figure 85 with an appropriate tool.

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

91. Remove the star screw indicated in Figure 85 that retains the bungee strap, and place the screw aside.

HINT: This screw will be reused in step 95.

- Discard the strap.



92. Remove the middle rivet with a drill.

HINT: Refer to Figure 85 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.

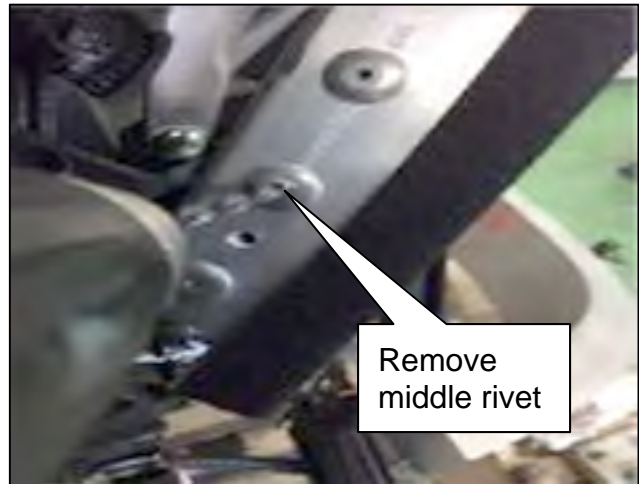


Figure 86

93. Assemble a rivet and a washer (WASH-SPL) onto a bungee bracket (WIRE-HDLNG), as shown in Figure 87.

- Reference numbers 1, 2 and 3 under **PARTS INFORMATION** starting on page 106.
- Apply window regulator grease to both sides of the washer.

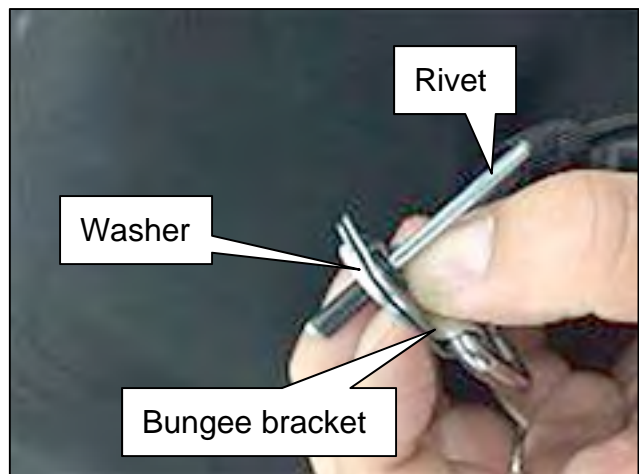


Figure 87

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

HINT: Refer to Figure 88 for bracket orientation.

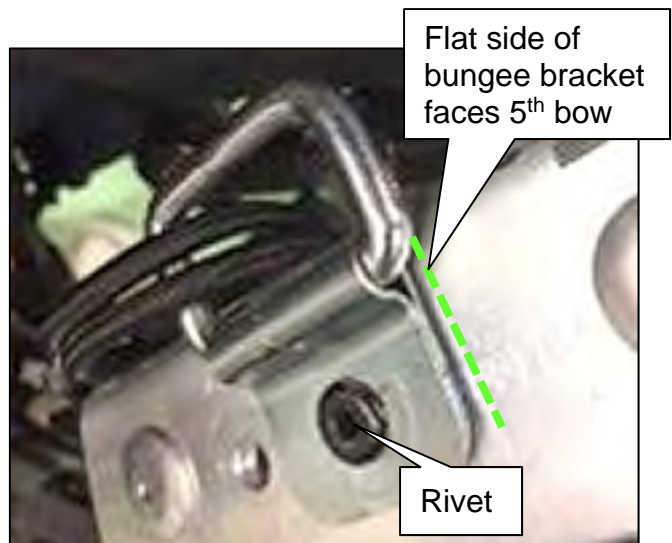


Figure 88

95. Attach the new bungee strap, with the star screw that was put aside in step 91 on page 36, to the same spot that the star screw was removed from.

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

NOTICE

Do not use powered tools to install the star screw. The star screw hole is easily damaged by over-torquing and/or misalignment.

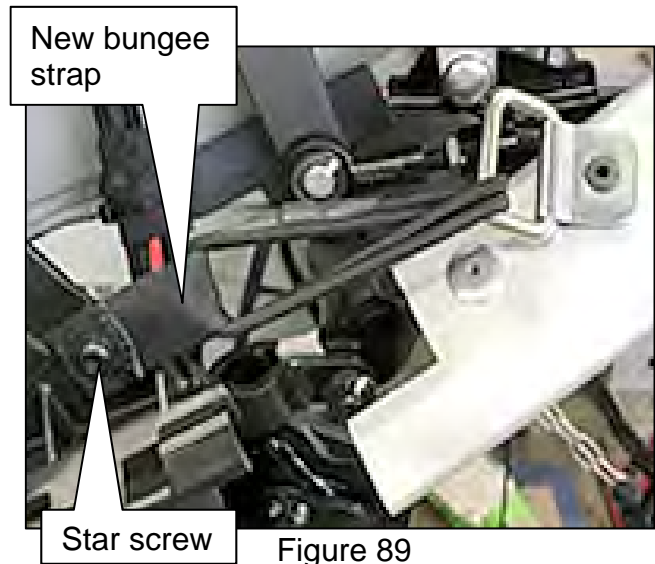


Figure 89

96. Skip to step 105 on page 42.

Style B: Steps 97-104 are for vehicles with Style B 5th bow bungees. Vehicles built in May 2015 or later.

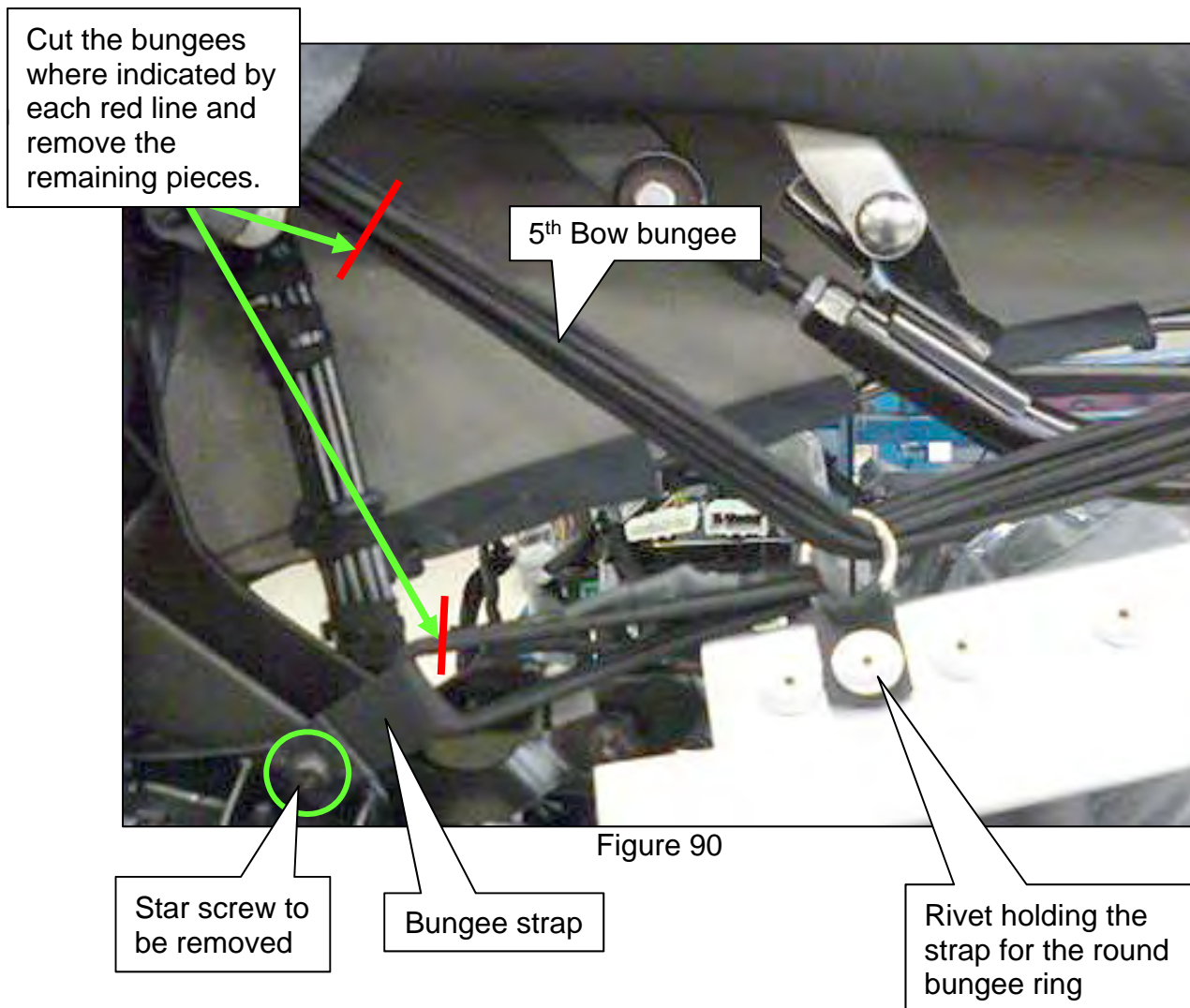
97. Cut through the bungees where indicated in Figure 90 with an appropriate tool.

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

99. Remove the star screw indicated in Figure 90 that retains the bungee strap and place the screw aside.

HINT: This screw will be reused in step 104.

- Discard the strap.



100. Remove the star screw, indicated in Figure 91, that retains the 5th Bow bungee strap and place the star screw aside.

HINT: This star screw will be reused in step 106 on page 42.

- Discard the strap.



Figure 91

101. Remove the rivet holding the strap for the round bungee ring shown in Figure 92 with a drill.

HINT: Refer to Figure 90 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 92

102. Assemble a rivet and a washer (WASH-SPL) onto a bungee bracket (WIRE-HDLNG) as shown in Figure 93.

- Reference numbers 1, 2 and 3 under **PARTS INFORMATION** starting on page 106.
- Apply window regulator grease to both sides of the washer.

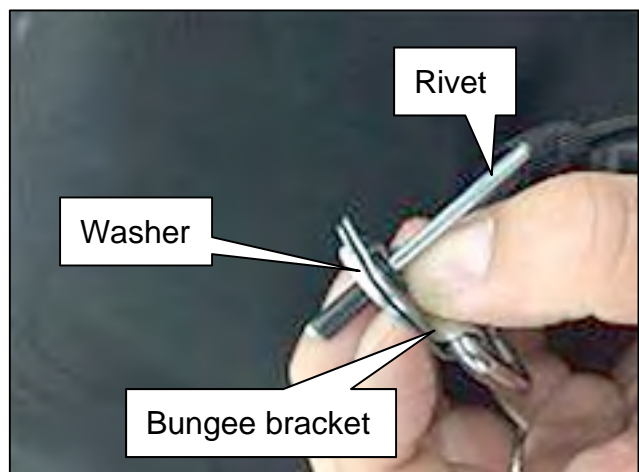


Figure 93

103. Attach the bracket assembly to the 5th Bow with a rivet gun.

HINT: Refer to Figure 94 for bracket orientation.

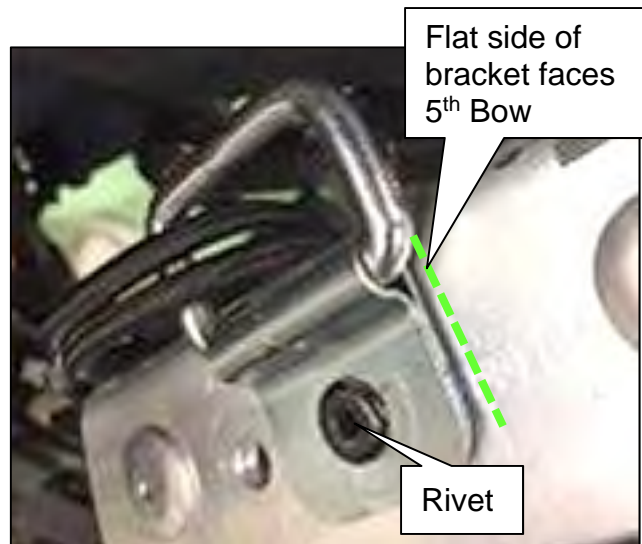


Figure 94

104. Using the star screw that was put aside in step 99 on page 39, attach the new bungee strap to the same spot that the star screw was removed from.

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

NOTICE

Do not use powered tools to install the star screw. The star screw hole is easily damaged by over-torquing and/or misalignment.

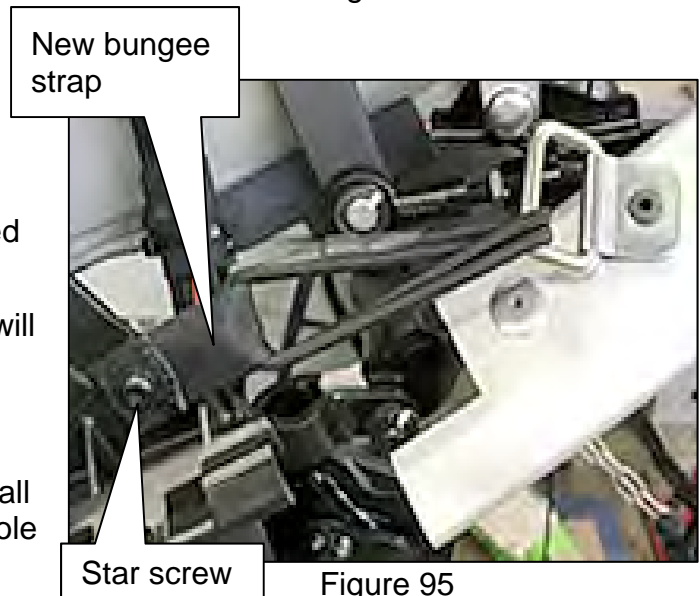


Figure 95

105. Insert the 5th Bow bungee (BUNGEE-5TH BOW) through the bracket assembly installed in step 94 on page 37 (Style A) or in step 103 on page 41 (Style B) (Figure 96).

- Reference number 4 under **PARTS INFORMATION** starting on page 106.

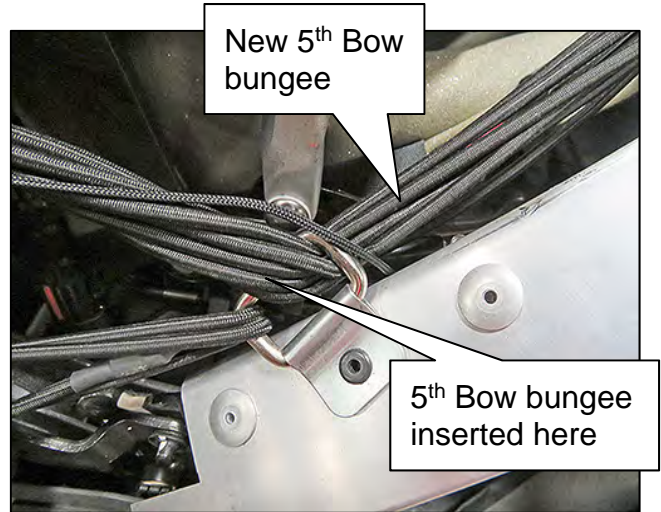


Figure 96

106. 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 97.

- If the old bungee strap is still attached at the point shown in Figure 97, remove it and reuse the star screw to attach the new bungee.

NOTICE

Do not use powered tools to install the star screw. The star screw hole is easily damaged by over-torquing and/or misalignment.



Figure 97

107. Remove the star screw shown in Figure 98.

- The star screw is located on the rear of the Rear Rail.

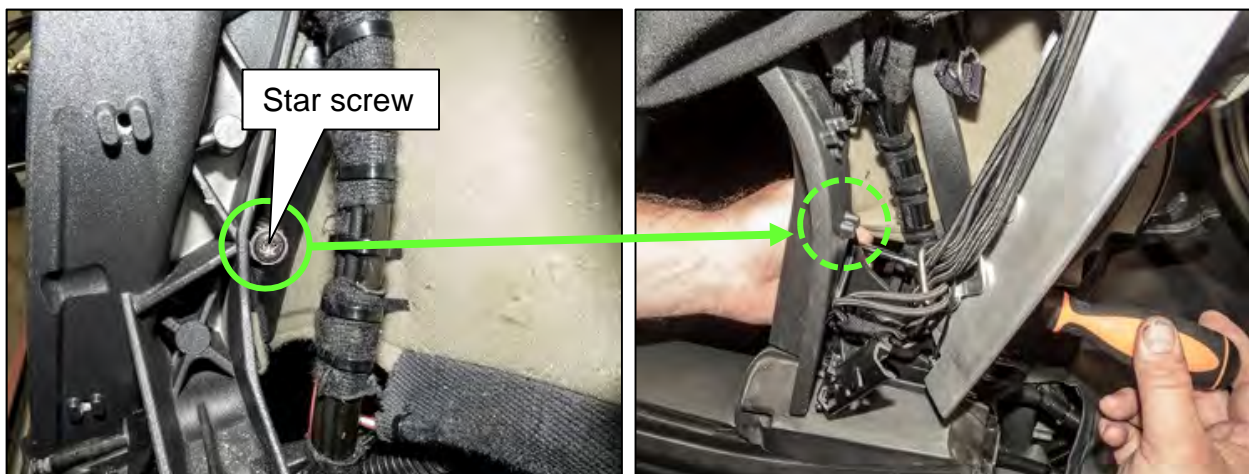


Figure 98

108. Temporarily attach the Ring-Strap Support (RING-STRAP SUPT).

- The ring-strap will be transferred to the new Rear Rail later in this **SERVICE PROCEDURE**.
- Reference number 5 under **PARTS INFORMATION** starting on page 106.

NOTICE

Do not use powered tools to install the star screw. The star screw hole is easily damaged by over-torquing and/or misalignment.

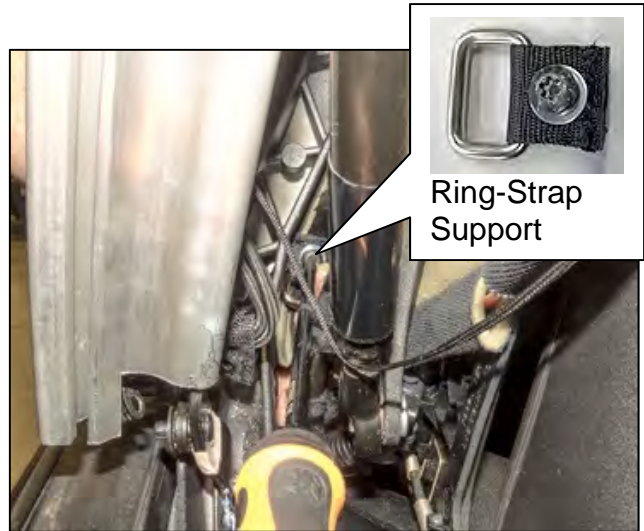


Figure 99

109. Place the Plate-Bracket (PLATE-BRKT, RH/LH) onto the 5th Bow linkage, as shown in Figure 101.

- Reference numbers 6 (RH) and 7 (LH) under **PARTS INFORMATION** starting on page 106.

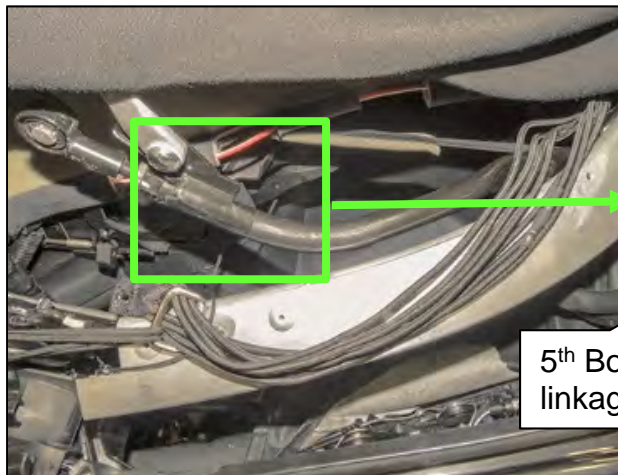


Figure 100

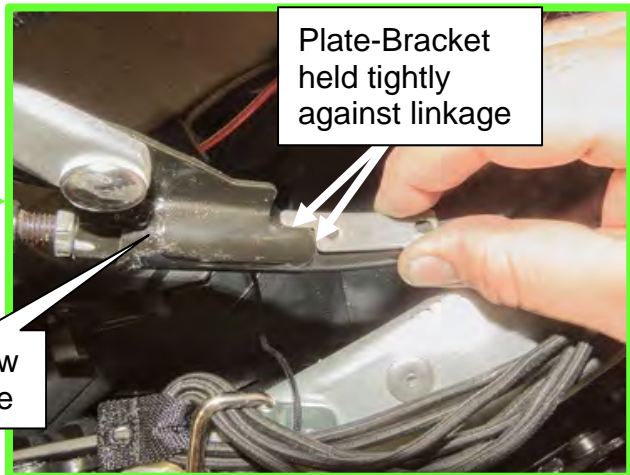


Figure 101

110. 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 102

111. Drill two (2) holes where marked in step 110 on page 43.
- Use a 4.1 mm drill bit.



Figure 103

112. Insert the “side specific” Plate-Bracket through the loop in the Cable-Tether, as shown in Figure 104.
- The loop on the Cable-Tether must be facing up (on top).
 - Reference number 8 under **PARTS INFORMATION** on page 108.

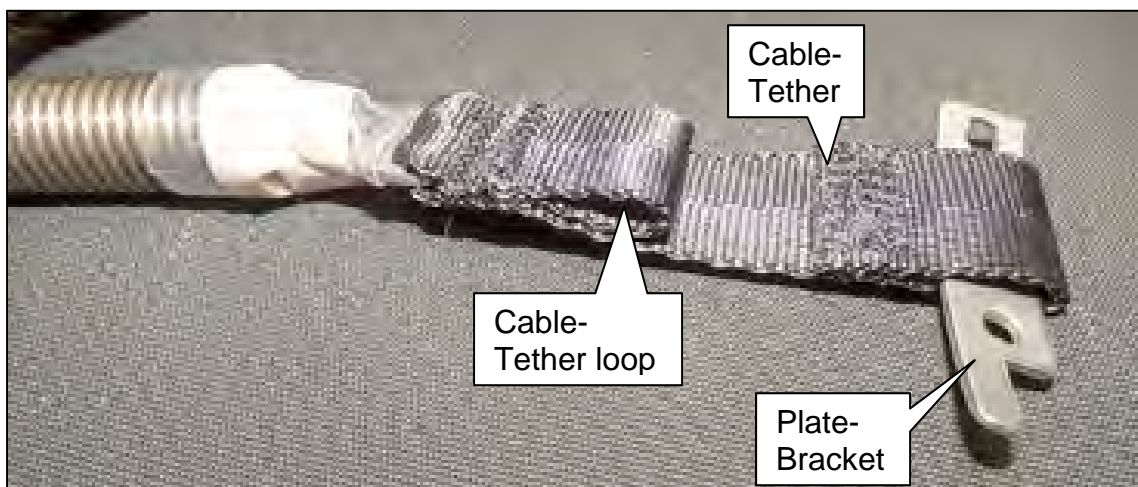


Figure 104

113. Attach the Plate-Bracket/Cable-Tether assembly to the 5th Bow linkage with two (2) pop rivets, as shown in Figure 105.
- Reference number 9 under **PARTS INFORMATION** on page 108.

114. Temporarily route the cable-tether (Figure 105).
- The Cable-Tether will wrap around the 5th Bow linkage and rest on top of the 5th Bow.

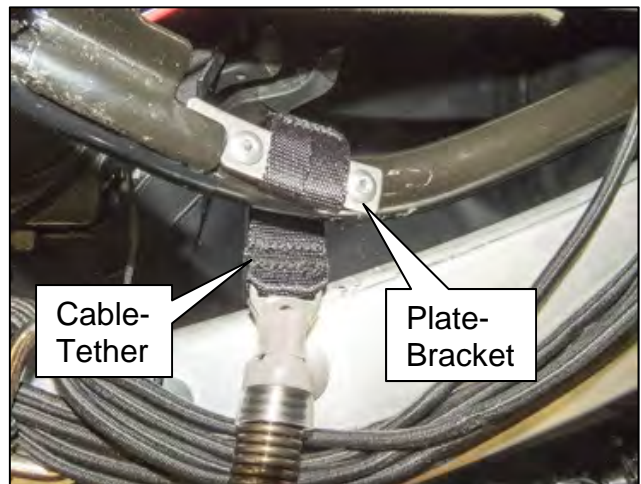


Figure 105

115. Measure the gap between the base of the 5th Bow linkage joint to the flange, as shown in Figure 107.
- Is the gap 29 mm (+/-1 mm)?
YES: Skip to step 120 on page 46.
NO: Proceed to step 116.
116. Remove the push-nut and then pull the link-pin out of the 5th Bow linkage joint (Figure 106).
117. Loosen the lock nut.

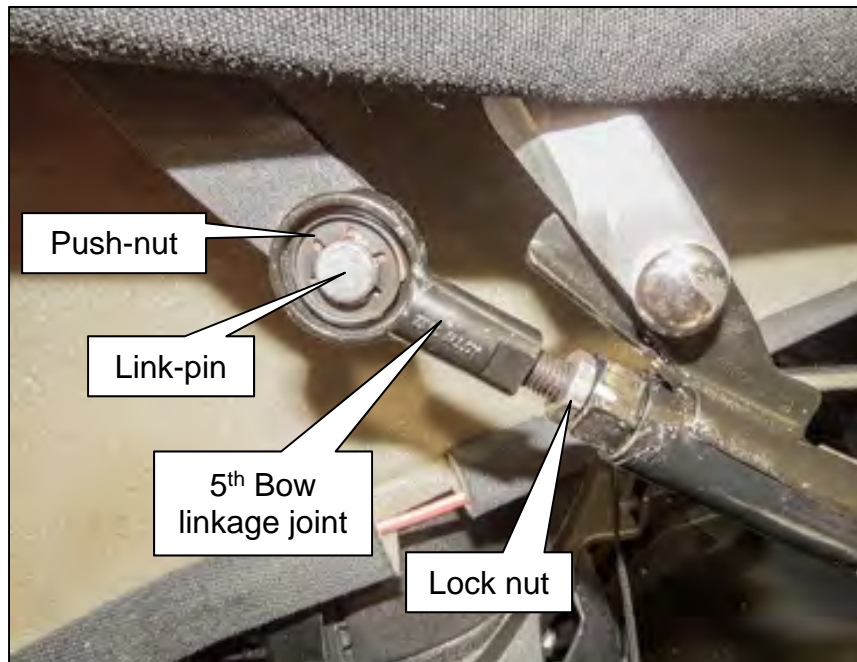


Figure 106

118. 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, as shown in Figure 107.
119. After adjustment has been completed, reassemble the 5th Bow linkage joint.
- Reference number 10 under **PARTS INFORMATION** on page 108.

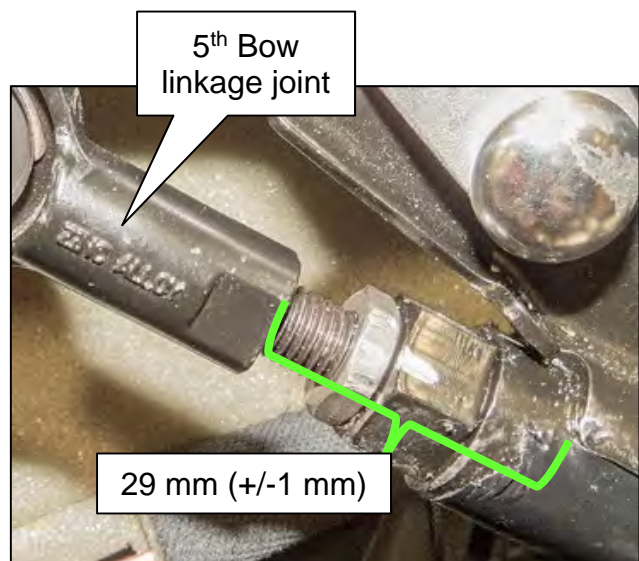


Figure 107

120. Install the 12 mm cover-bolt onto the 5th Bow linkage (Figure 108).

- Reference number 11 under **PARTS INFORMATION** on page 108.

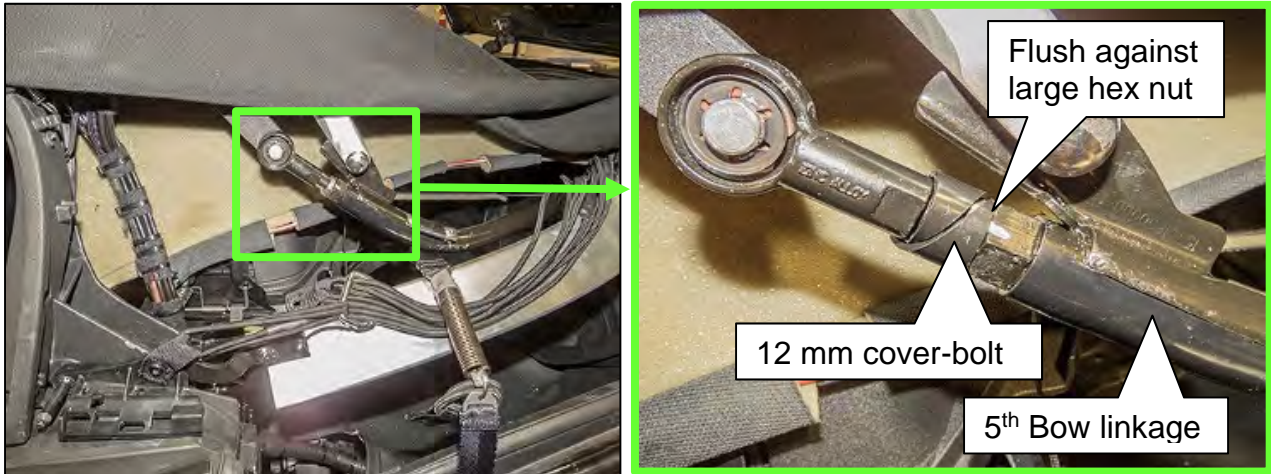


Figure 108

121. Install the 21 mm cover-bolt over the 12 mm cover-bolt (Figure 109).

- Reference number 12 under **PARTS INFORMATION** on page 108.

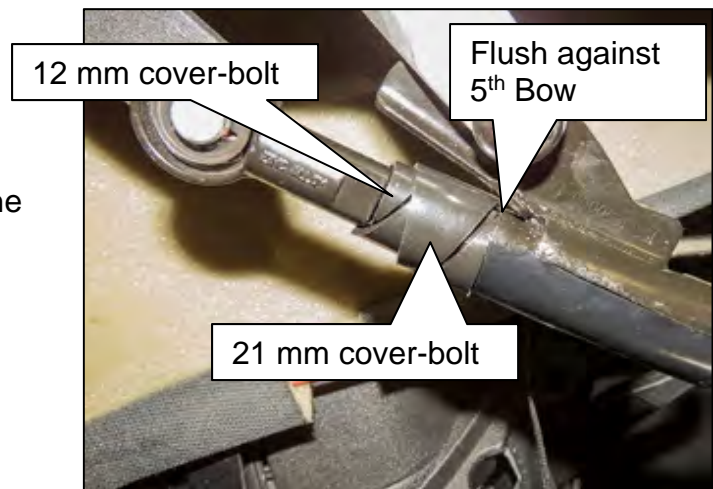


Figure 109

122. Apply the 25 x 50 mm tape (TAPE) over the bottom side of both cover-bolts, as shown in Figure 110.

- Reference number 13 under **PARTS INFORMATION** on page 108.

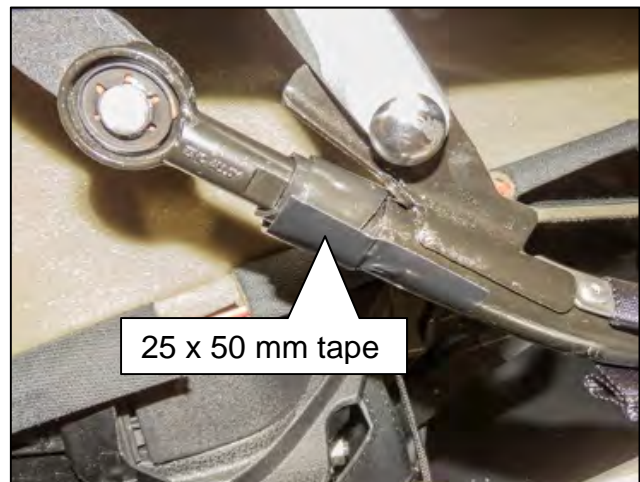


Figure 110

123. Wrap the end of the cover-bolts with a 160 mm piece of Felt Tape.

- Reference number 14 under **PARTS INFORMATION** on page 108.
- Trim the Felt Tape to 160 mm before wrapping the cover-bolts.

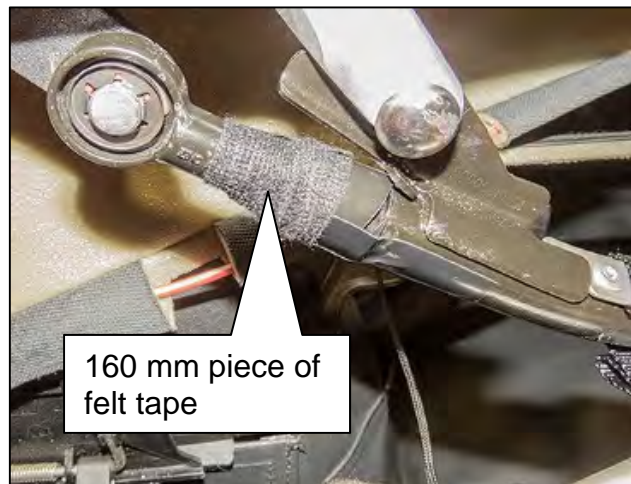


Figure 111

124. Remove the star screw that holds the Tension Spring and the Lanyard eyelet to the rear of the Rear Rail.

HINT: This star screw will be reused in step 127 on page 48.

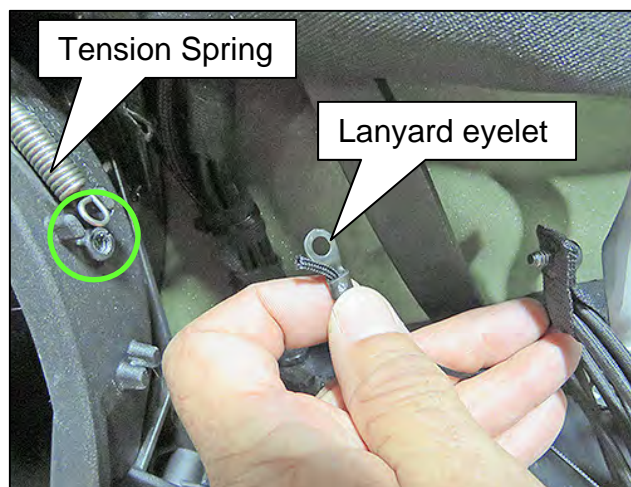


Figure 112

125. Thread the Lanyard eyelet through the Cable-Tether loop in the direction indicated in Figure 113.

126. Route the lanyard under the 5th Bow linkage and the 5th Bow bungee.

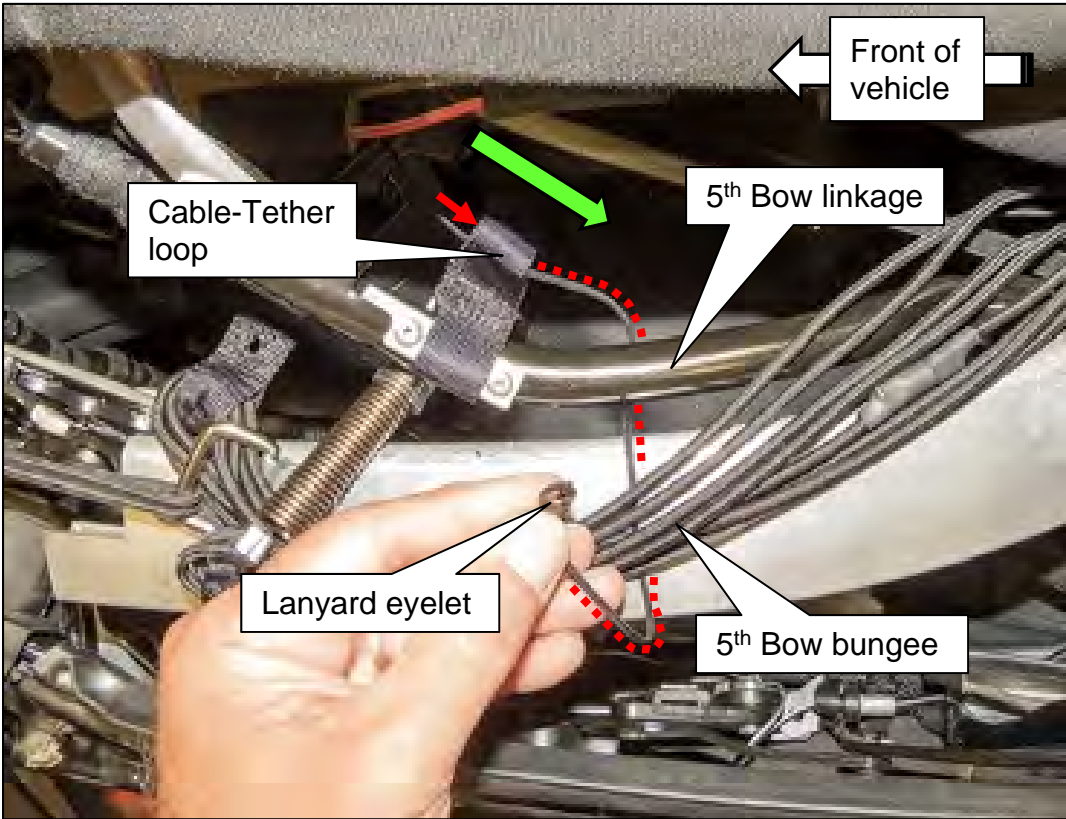


Figure 113

127. Insert the star screw removed in step 124 on page 47 through the loose end of the 5th Bow bungee strap, and then insert it through the Tension Spring.

128. Place the Lanyard eyelet onto the star screw.

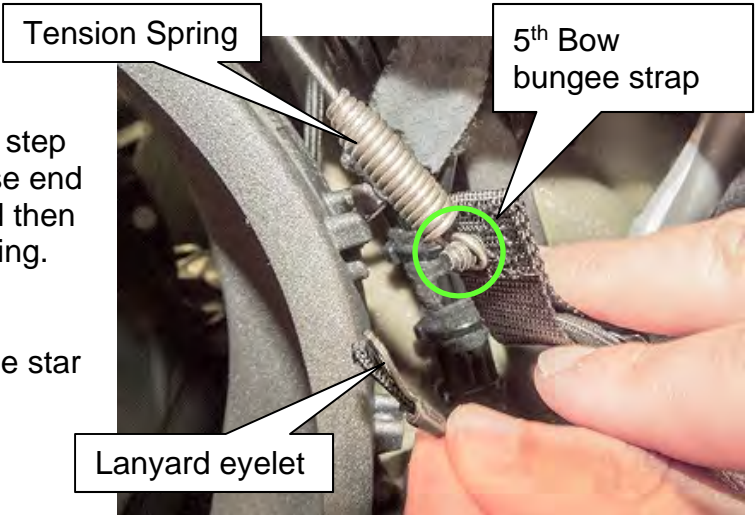


Figure 114

129. Position the Soft Top location strap under the lanyard eyelet attachment point that the star screw was removed from in step 124 on page 47.

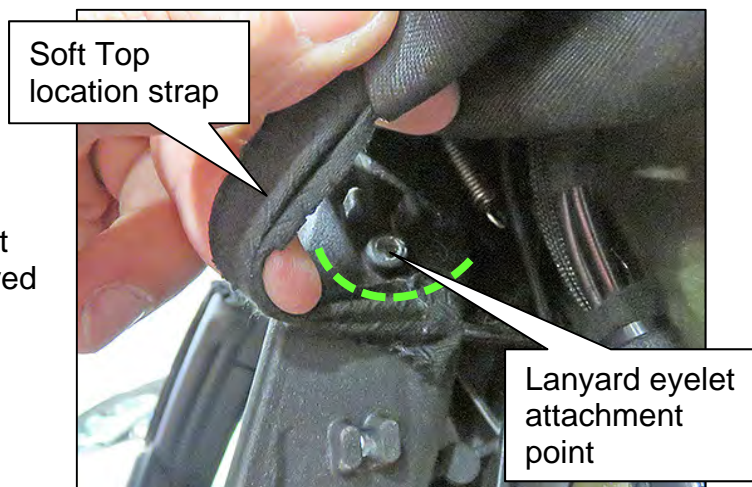


Figure 115

130. Temporarily attach the 5th Bow bungee, Tension Spring and Lanyard eyelet, assembled in step 127 and step 128 on page 48, as shown in Figure 116.

- These components will be transferred to the new Rear Rail later in this **SERVICE PROCEDURE**.

NOTICE

Do not use powered tools to install the star screw. The star screw hole is easily damaged by over-torquing and/or misalignment.

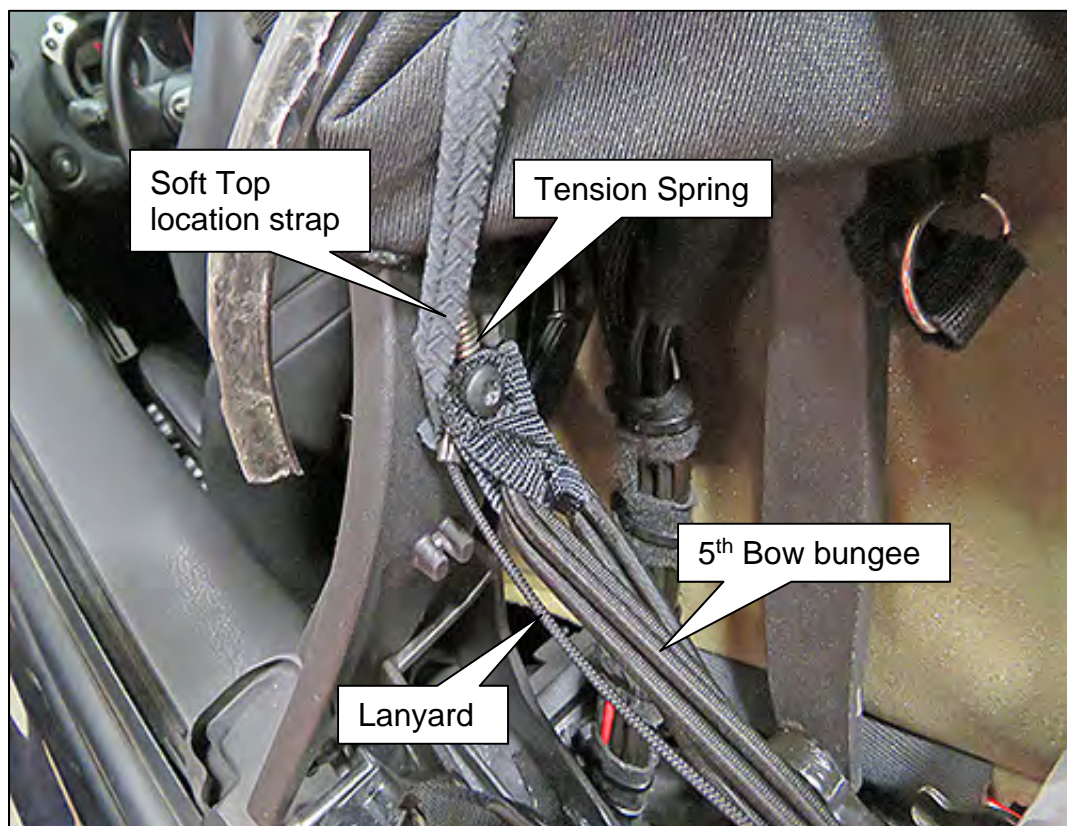


Figure 116

131. Remove the lightly tightened star screw attaching the Bracket Bungee Strap, attached in step 104 on page 41.

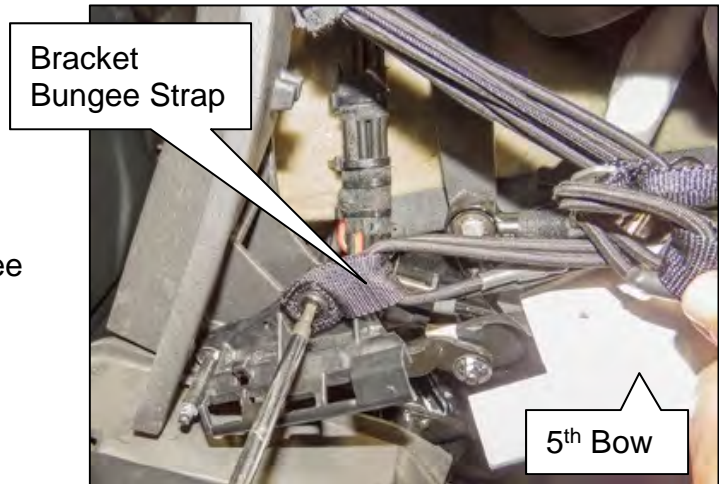


Figure 117

132. Insert the star screw, removed in step 131, first through the bungee strap of the Cable-Tether and then through the Bracket Bungee Strap removed in step 131.

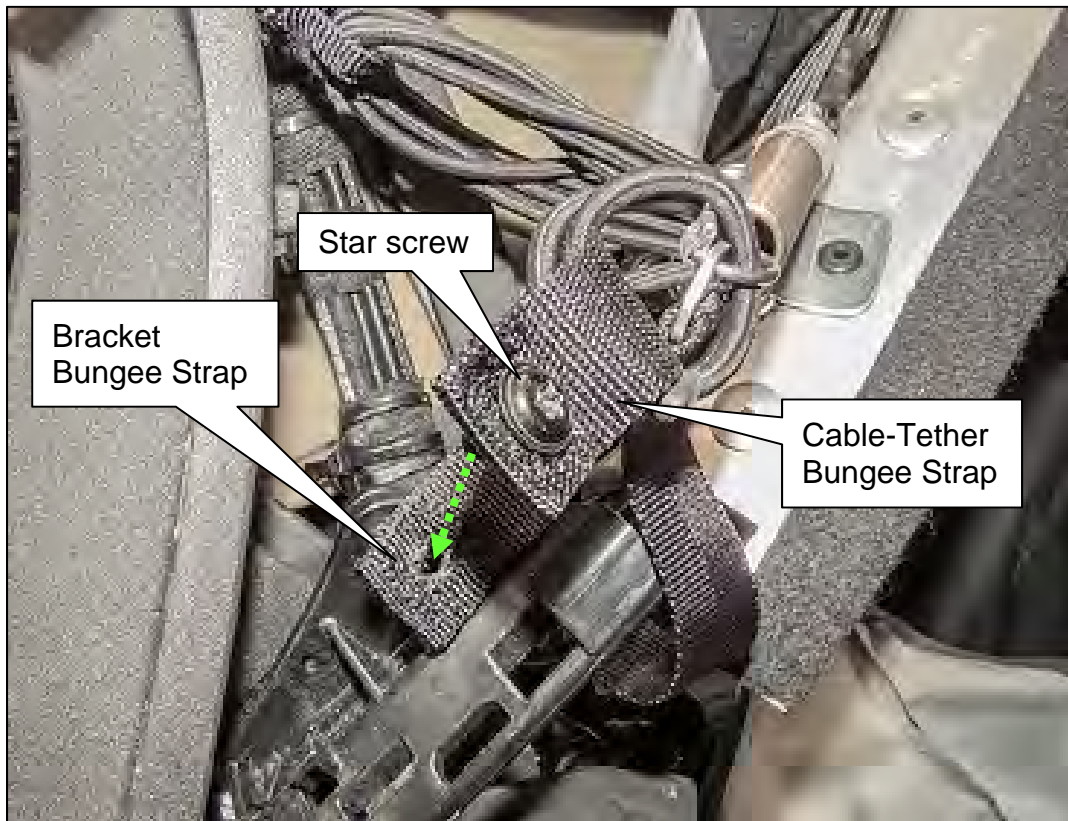


Figure 118

Cable-Tether Bungee Strap and Bracket Bungee Strap

133. Attach the Cable-Tether Bungee Strap and Bracket Bungee Strap Assembly to the point the star screw was removed from in step 131 on page 50.

NOTICE

Do not use powered tools to install the screw. The screw hole is easily damaged by over-torquing and/or misalignment.

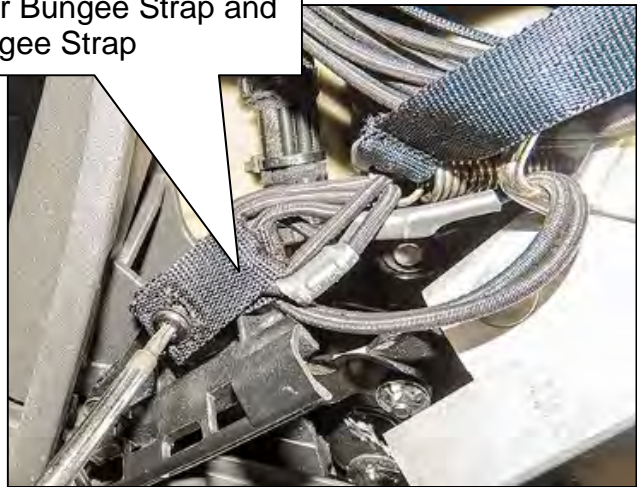


Figure 119

134. Route the Cable-Tether Strap as shown in Figure 120, and then between the Rear Rail and the 5th Bow linkage, as shown in Figure 121.

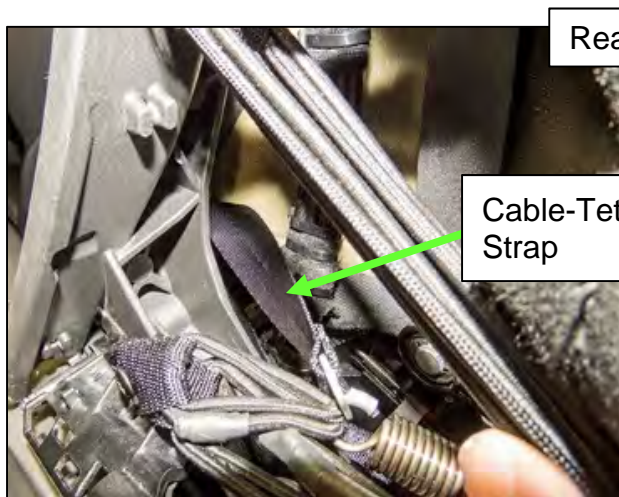


Figure 120

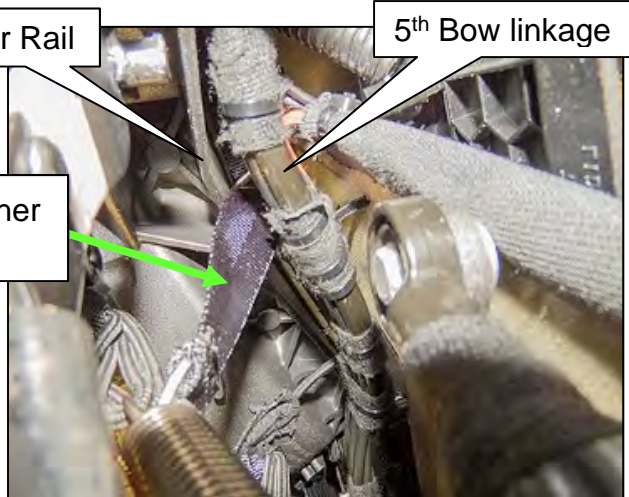


Figure 121

135. Insert the Cable-Tether Strap through the Ring-Strap Support attached in step 108 on page 43.

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

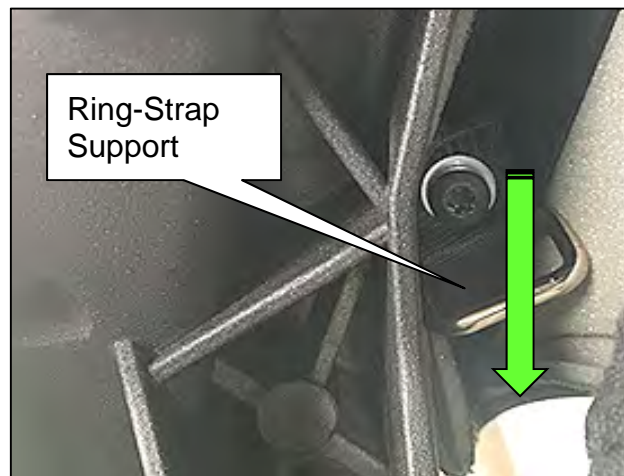


Figure 122

136. Remove the Kicking Plate Inner.

NOTE: Leave this component detached until after the Rear Rail is replaced later in this **SERVICE PROCEDURE**.

- Refer to the ESM: **REPAIR > BODY INTERIOR > INTERIOR > REMOVAL AND INSTALLATION > KICKING PLATE INNER**

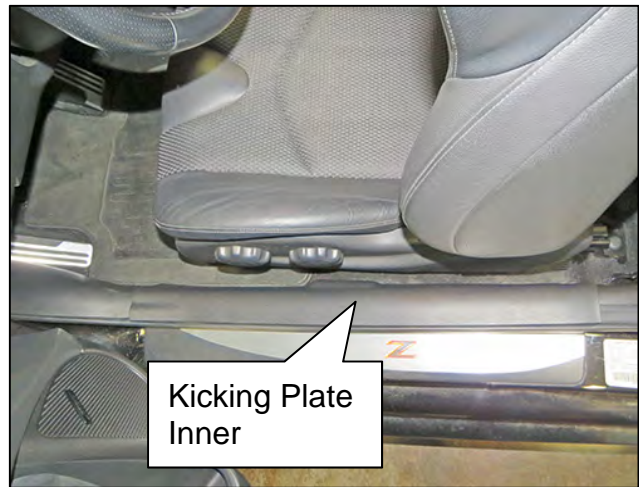


Figure 123

137. Remove the Rear Side Finisher.

NOTE: Leave this component detached until after the Rear Rail is replaced later in this **SERVICE PROCEDURE**.

- Refer to the ESM: **REPAIR > BODY INTERIOR > INTERIOR > REMOVAL AND INSTALLATION > REAR SIDE FINISHER**

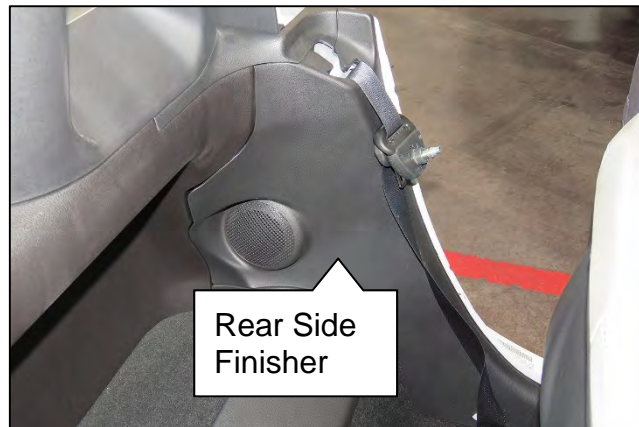


Figure 124

138. Lift the 5th Bow to the angle shown in Figure 125.

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

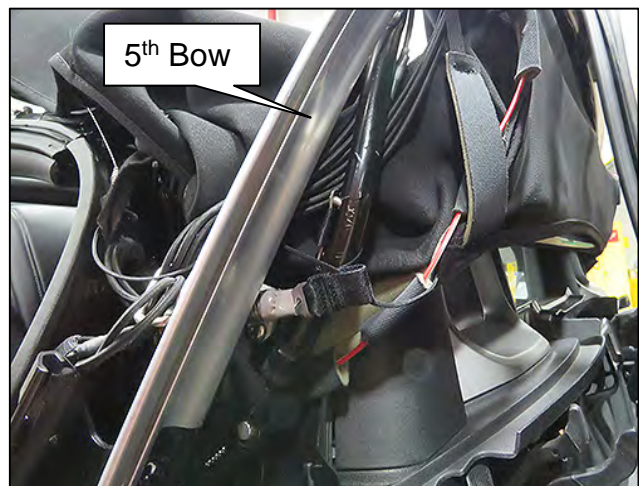


Figure 125

For steps 139-143 refer to Figure 126 and Figure 127 below.

- Figure 126 and Figure 127 show two views of the bolt hole that will be used to attach the Cable-Tether Strap.
- Figure 126 is from the soft top storage area and Figure 127 is from inside the vehicle.

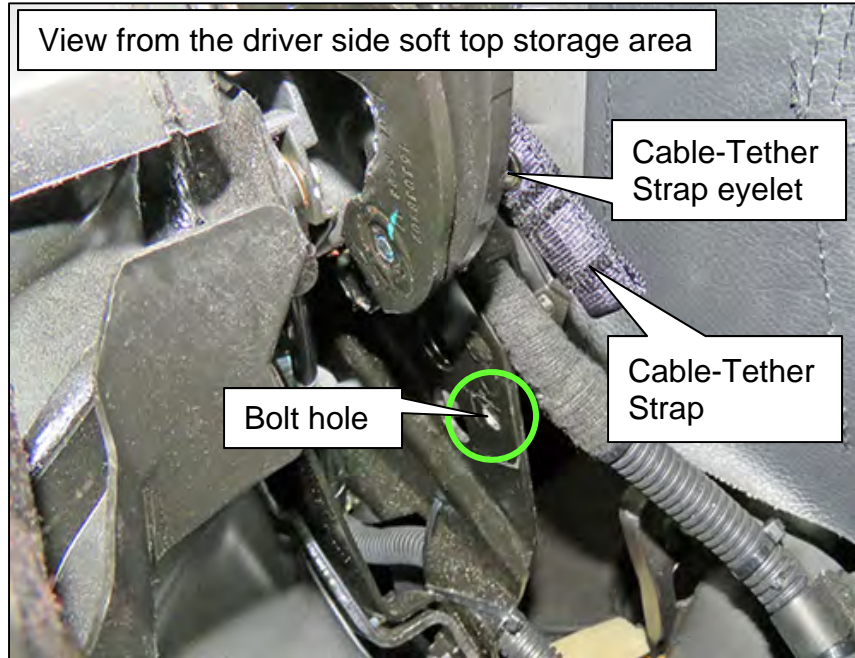


Figure 126

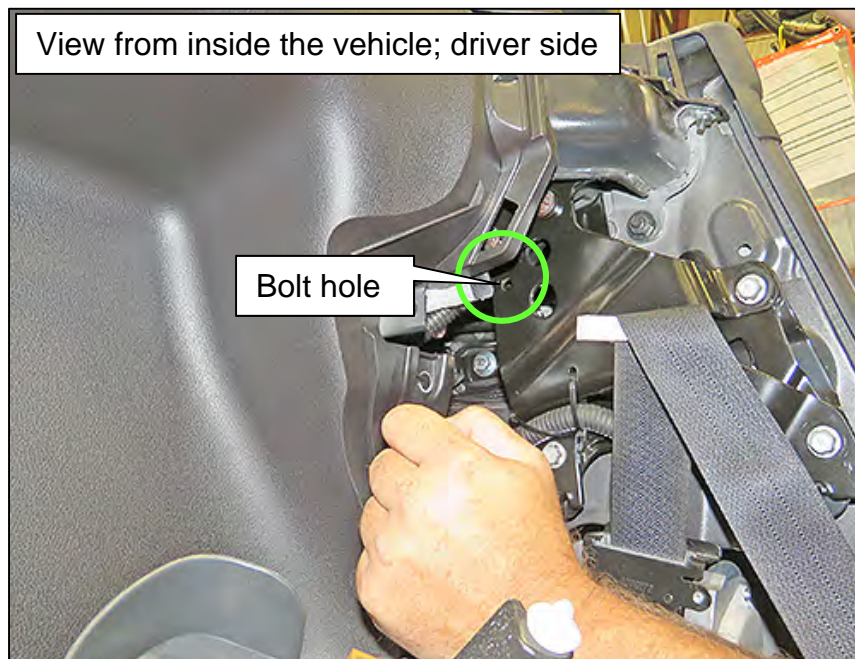


Figure 127

139. Insert bolt (BOLT-SPL) through the eyelet in the Cable-Tether Strap, and then insert the bolt through the hole shown in Figure 126 and Figure 127 on page 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 (Figure 128 and Figure 129).
 - Reference number 15 under **PARTS INFORMATION** on page 109.
140. Thread one (1) nut (NUT-SPL) onto BOLT-SPL.
- Reference number 16 under **PARTS INFORMATION** on page 109.

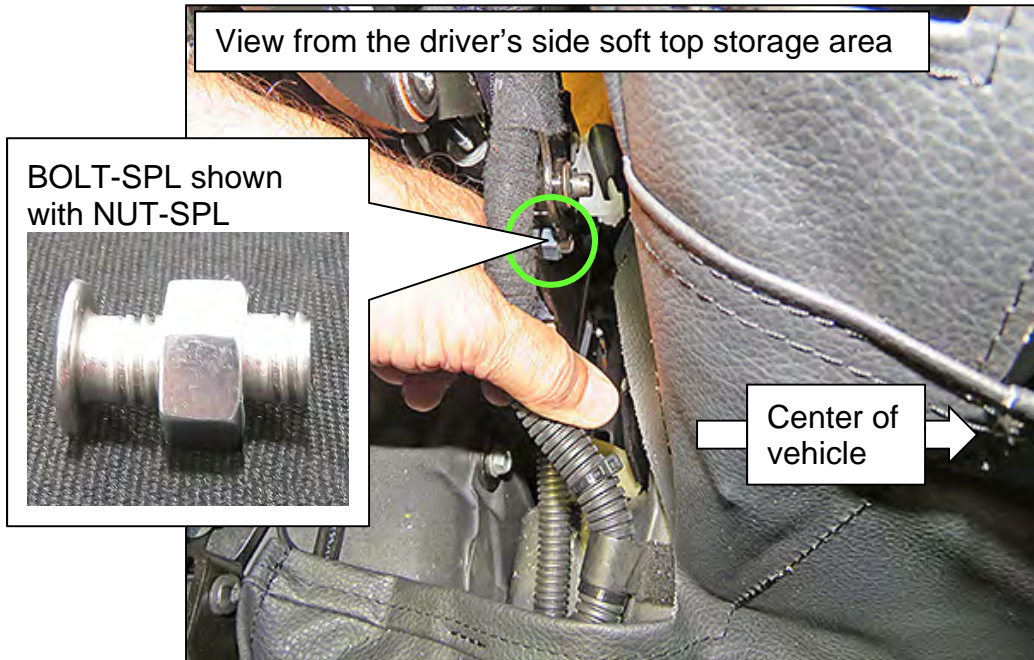


Figure 128

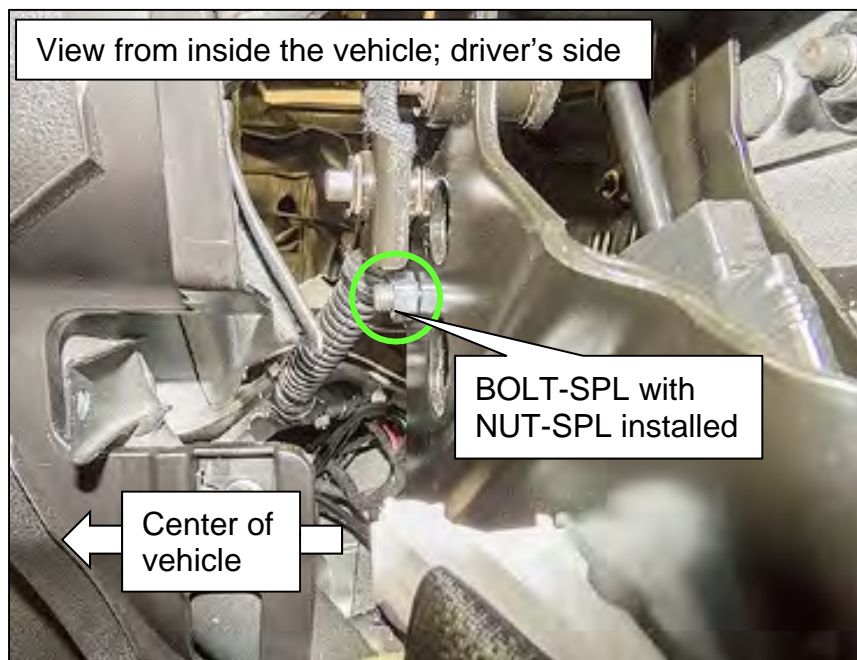


Figure 129

141. 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.

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



Figure 130

143. 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 131.

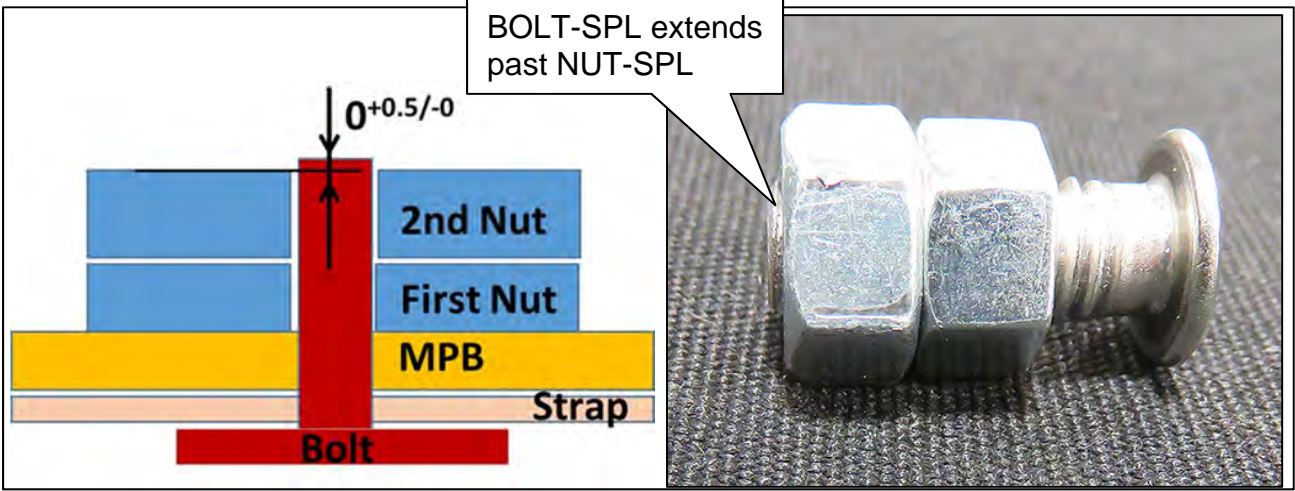


Figure 131

144. 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 under **PARTS INFORMATION** on page 109.

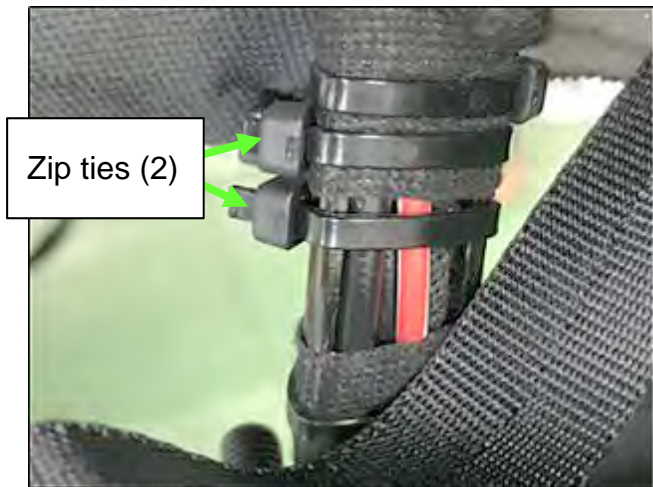


Figure 132

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

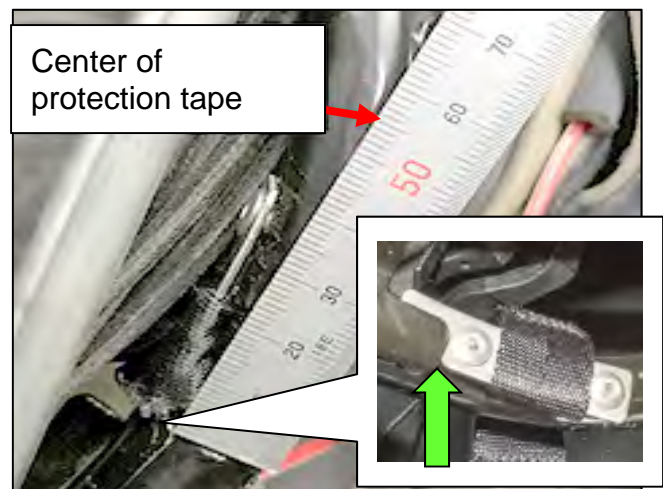


Figure 133

146. 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 134, and then wrap it as shown in Figure 135.

- Reference number 18 under **PARTS INFORMATION** on page 109.



Figure 134



Figure 135

147. Repeat steps 78-146 for the passenger (RH) side.

148. Remove both the driver and passenger side seatbelt Shoulder Anchors.

- a. Open the Shoulder Anchor Cover (Figure 136).
- b. Remove the Shoulder Anchor bolt (Figure 137).



Figure 136

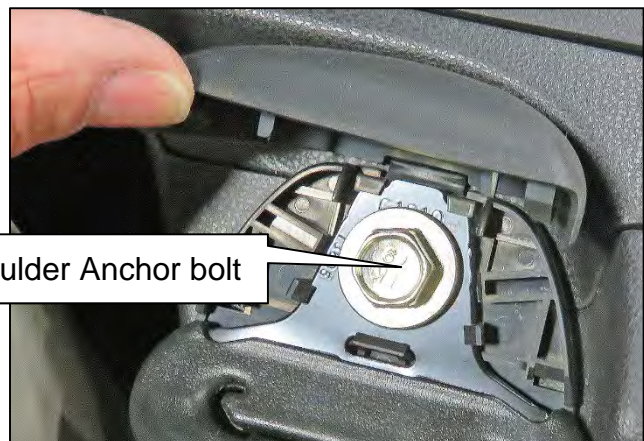


Figure 137

149. Open the Soft Top, but stop before the Storage Lid Assembly starts to close.



Figure 138

150. Support the Storage Lid Assembly as shown in Figure 139, to prevent it from closing.



Figure 139

151. Remove both the driver and passenger side Flipper Spring Bracket bolts.
- This will allow Flipper Doors to open.

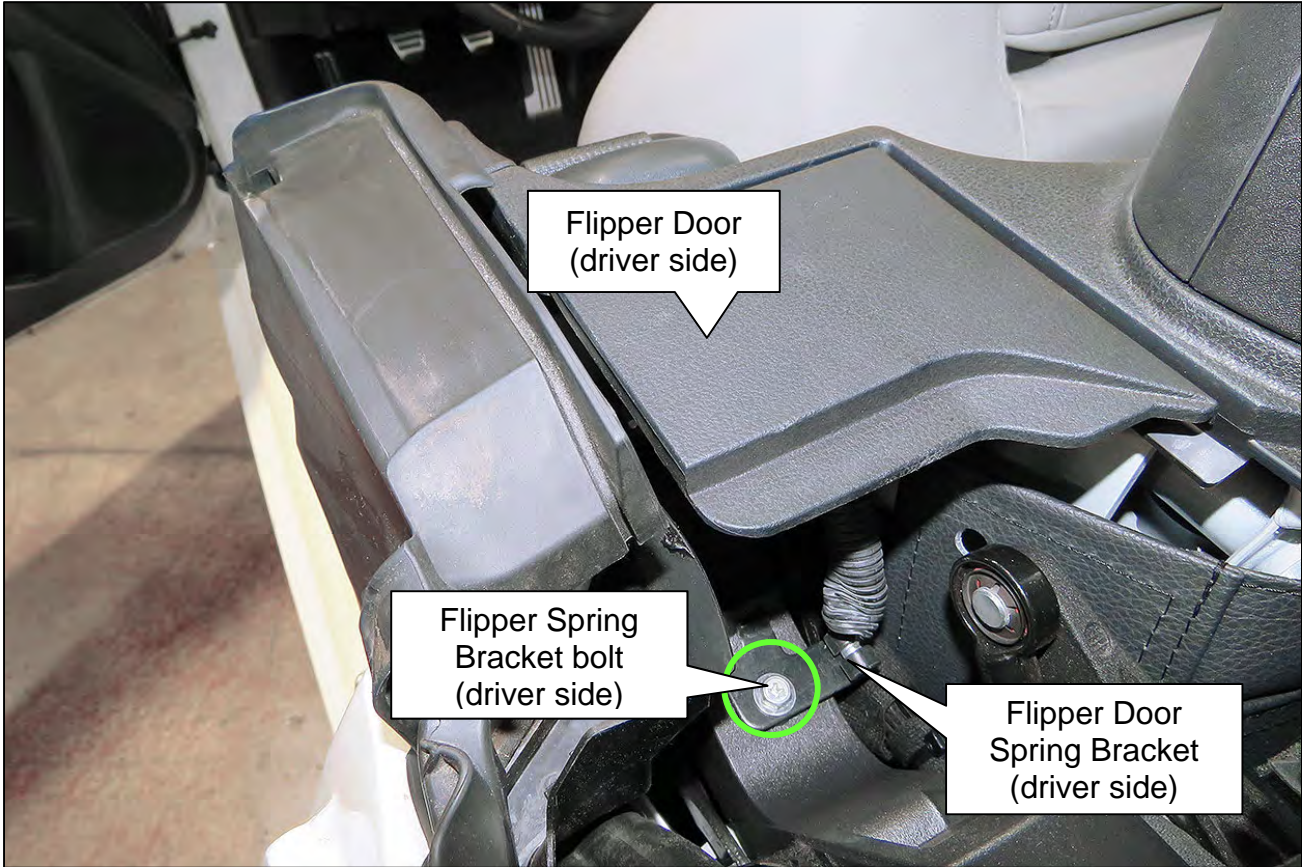


Figure 140

152. Close the Soft Top half way, as shown in Figure 141.



Figure 141

153. To prevent the 5th Bow from sinking, secure the Soft Top with a bungee cord, as shown in Figure 142.



Figure 142

154. Detach the Storage Room Finisher (vinyl fabric) from the rear of the Rear Parcel Shelf Finisher Assembly.

- Refer to the ESM: **REPAIR > BODY INTERIOR > INTERIOR > REMOVAL AND INSTALLATION > STORAGE ROOM FINISHER**

Rear Parcel Shelf
Finisher Assembly

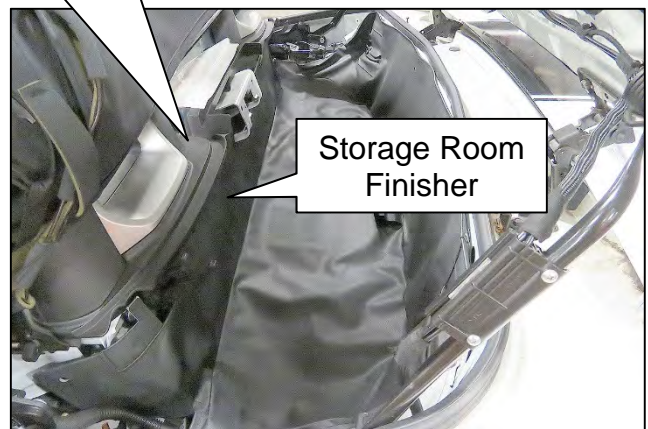


Figure 143

155. Fold Storage Room Finisher onto itself.



Figure 144

156. Fold Storage Room Finisher a second time up against the back side of the storage room (Figure 145), and then secure with a clip (Figure 146).

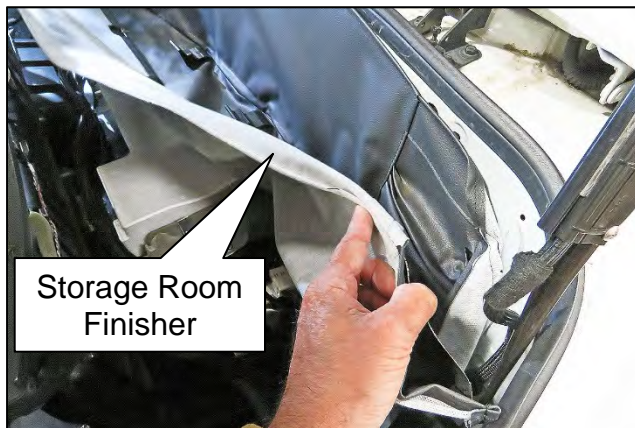


Figure 145



Figure 146

157. Remove the driver and passenger side hydraulic hose retainer bolts (Figure 147).

HINT: These are the hydraulic hoses that extend into the soft top.

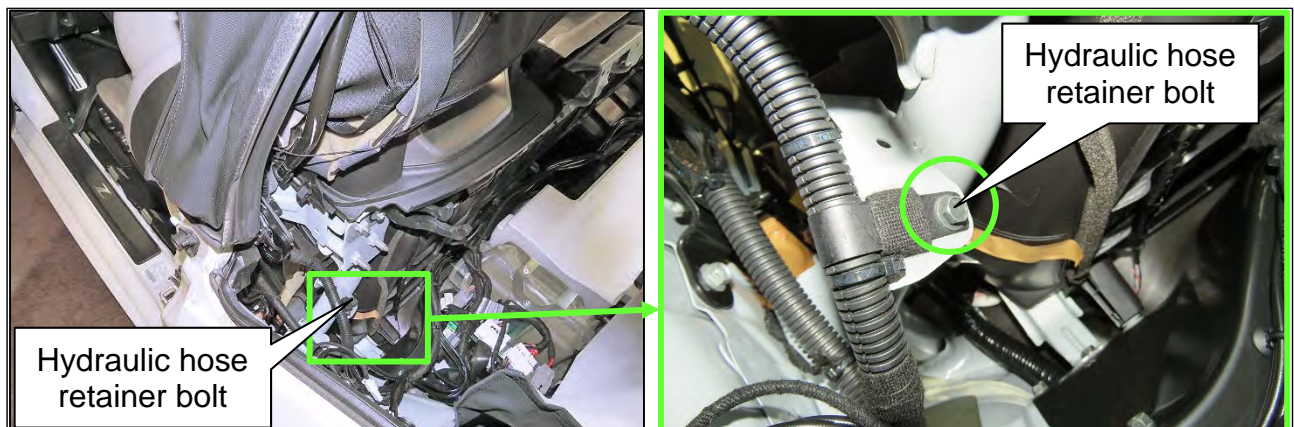


Figure 147

158. Remove the three (3) mounting nuts that retain the soft top Hydraulic Unit Assembly (Figure 148).

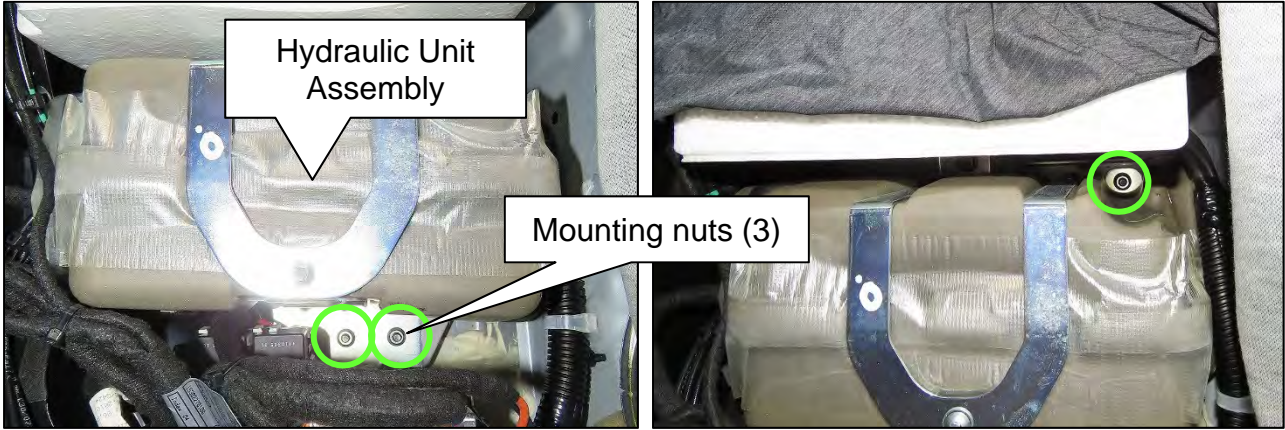


Figure 148

159. Disconnect the two (2) white harness connectors shown in Figure 149.

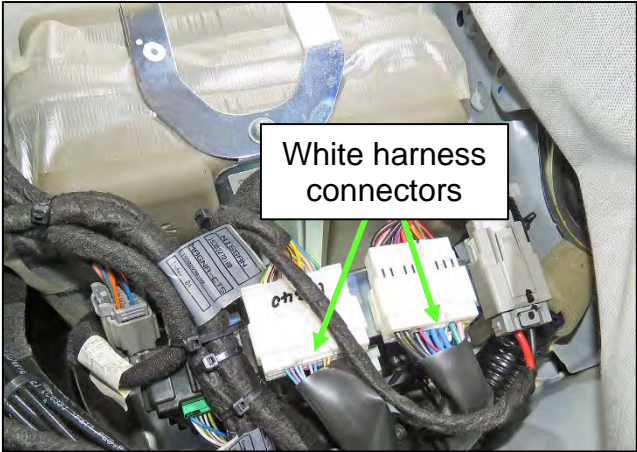


Figure 149

160. Detach the thirteen (13) hydraulic hose clips that connect the Hydraulic Unit Assembly to the soft top hydraulic actuators, that secure the hoses to the vehicle, where shown in Figure 150.

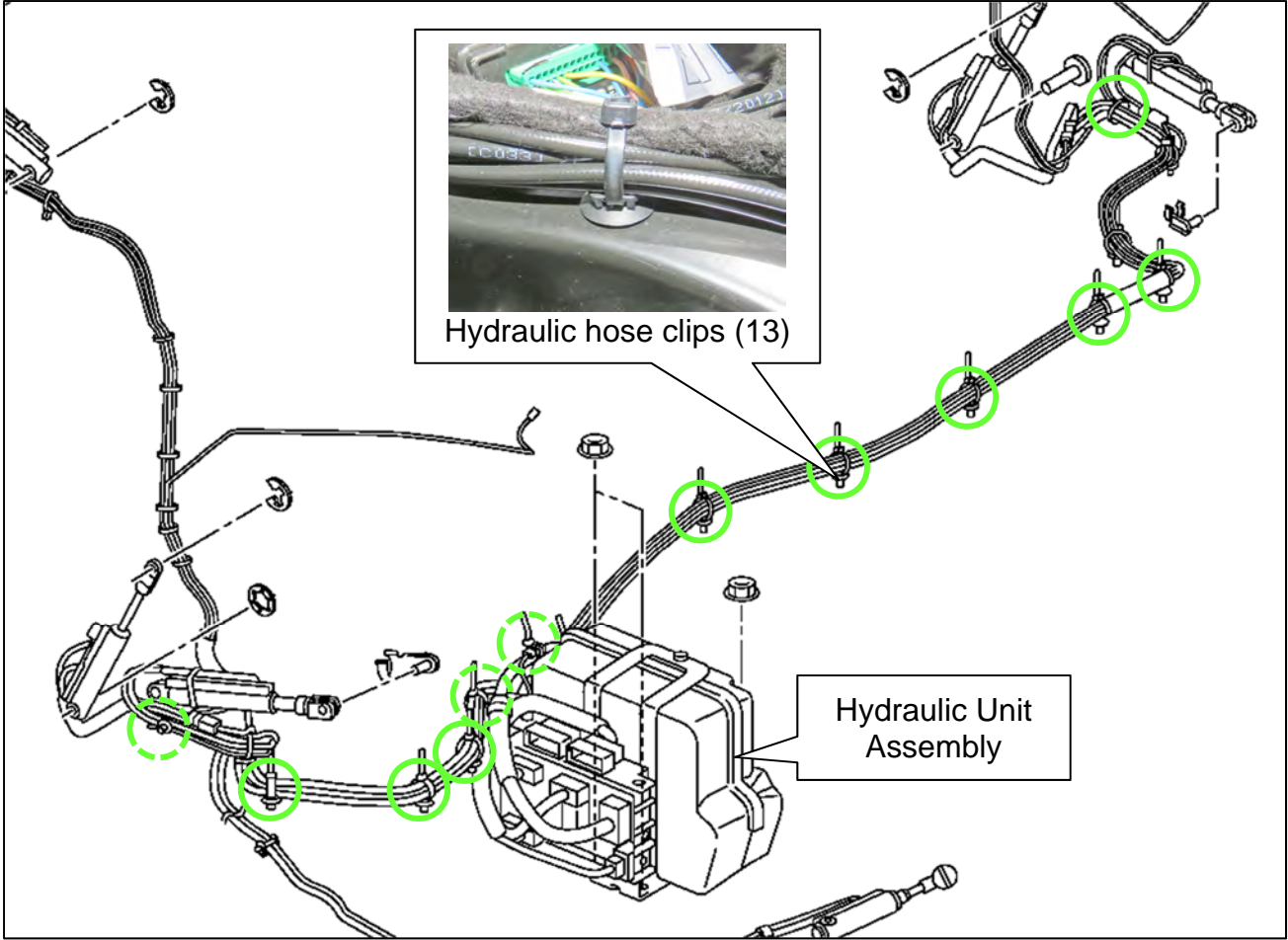


Figure 150

161. Loosen, but do not remove, the ground bolt shown in Figure 151, and then slide out the forked ground terminal.

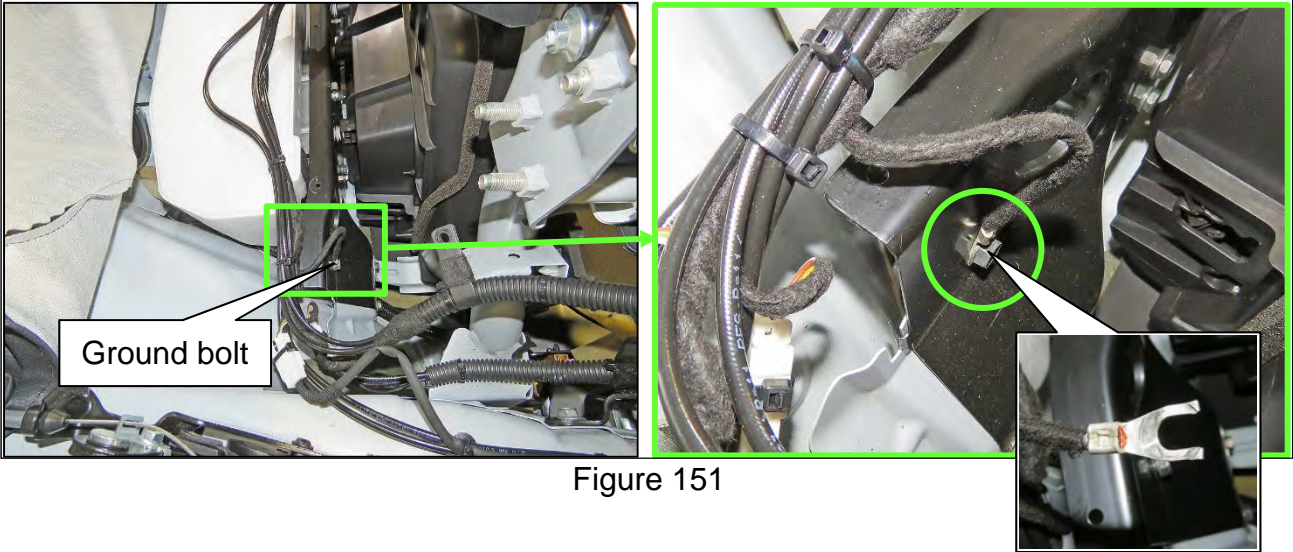


Figure 151

162. Lift the Hydraulic Unit Assembly away from its mounting studs, and set it on the white foam insert that is next to it.

HINT: Relocating the Hydraulic Unit Assembly will allow the Soft Top to be raised later in this procedure.

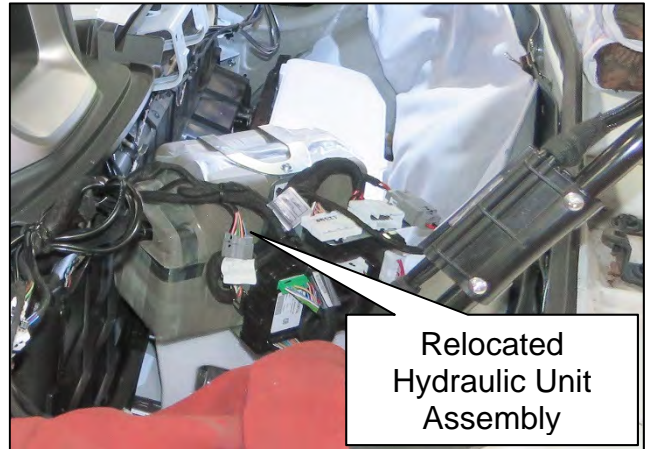


Figure 152

Assembly of the Soft Top Mounting Fixtures

See the **TOOLS INFORMATION** on page 106 for a list of the components required to assemble the driver and passenger side Soft Top mounting fixtures.

163. Select the Soft Top mounting fixture component that is marked “LH” (Figure 153).



Figure 153

164. Assemble the driver side Soft Top mounting fixture as shown in Figure 154 and Figure 155.

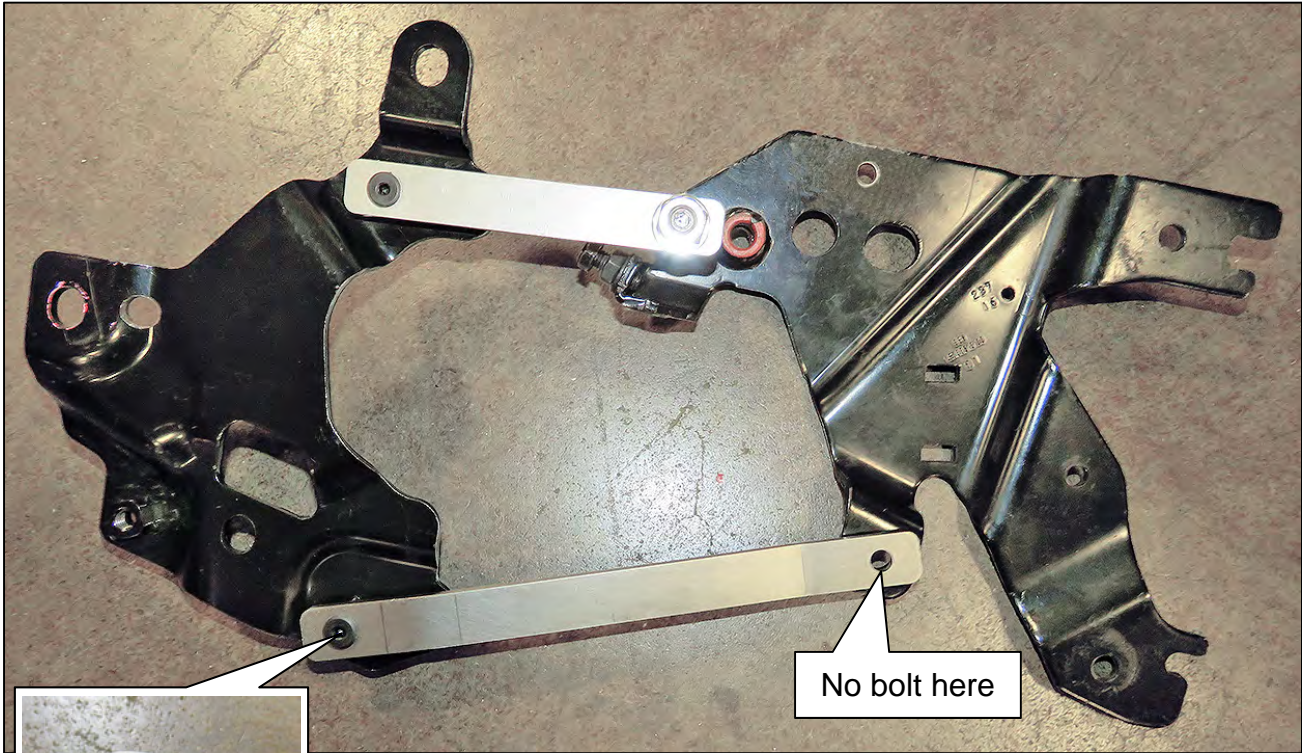


Figure 154

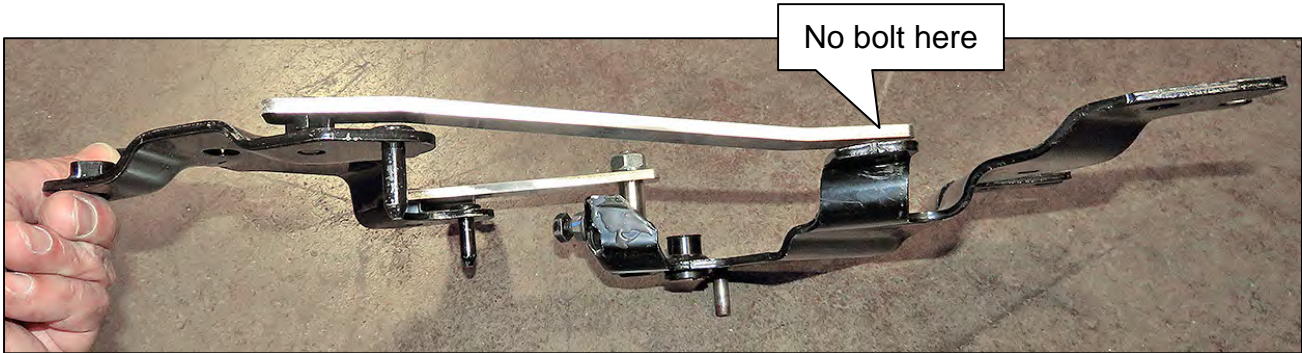


Figure 155

165. After assembling the driver side Soft Top mounting fixture, assemble the passenger side Soft Top mounting fixture.

HINT: The passenger side Soft Top mounting fixture will be the mirror image of Figure 154 and Figure 155.

166. Support the Soft Top with a box, or other appropriate object.



Figure 156

167. Remove both the driver and passenger side seatbelts from the white plastic guides.

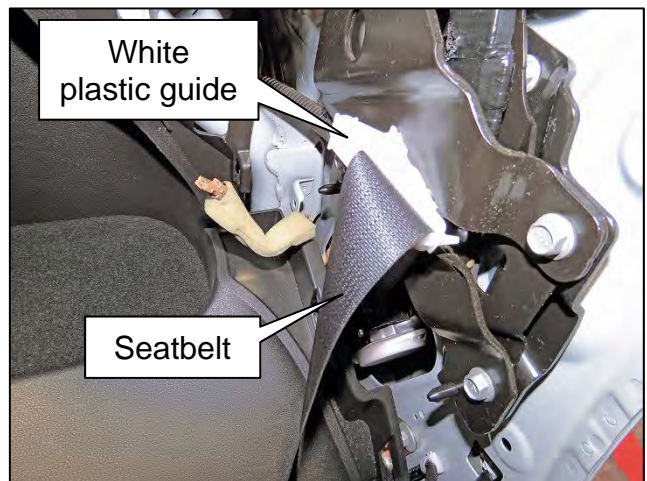


Figure 157

168. Remove the two (2) zip ties, shown in Figure 158, from both the driver and passenger side Soft Top Linkage Assemblies.
169. Remove the three (3) mounting bolts, shown in Figure 158, that attach the Soft Top Linkage Assembly to the Soft Top Mounting Bracket from both the driver and passenger sides.

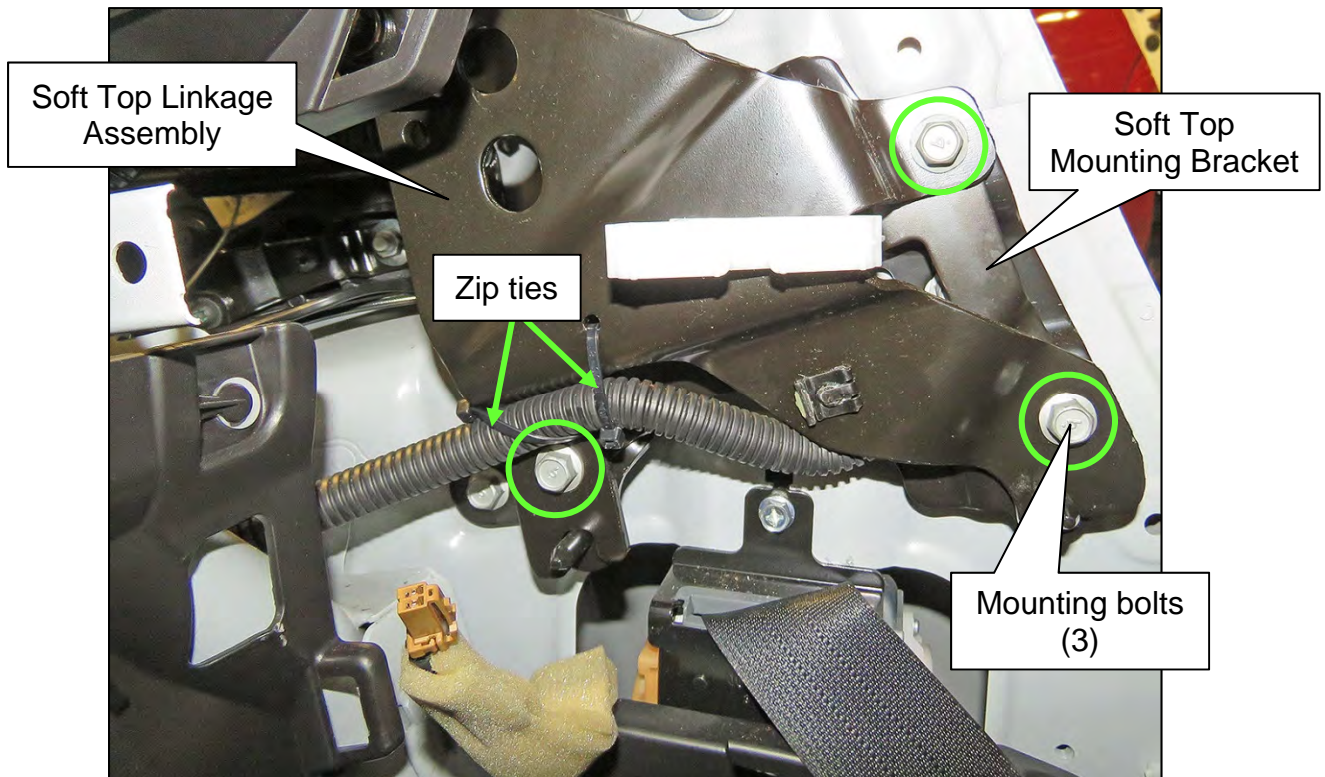


Figure 158

170. Place fender covers over both the driver and passenger side b-pillar areas and across the top edge of the windshield.

171. With help from a coworker, lift the Soft Top Assembly off of the Soft Top Mounting Brackets, and then allow it to rest on the box and top edge of the windshield frame.

NOTICE

To prevent damage to the windshield glass, do not allow the soft top frame and glass to come into contact with each other.

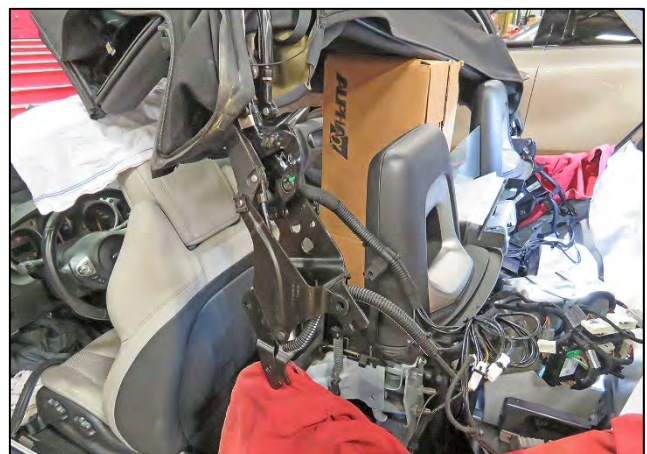


Figure 159

172. Attach the soft top mounting fixtures (Figure 161) to both the driver and passenger side Soft Top Mounting Brackets (Figure 160), and secure them with their three (3) original bolts, hand tight.

- One (1) of the three (3) bolts (Figure 162) passes through a soft top mounting fixture strut and the soft top mounting fixture, before being threaded into the Soft Top Mounting Bracket.
- One (1) of the two (2) soft top mounting fixture struts is hidden in Figure 162. See Figure 163 on page 68 for hidden fixture strut.

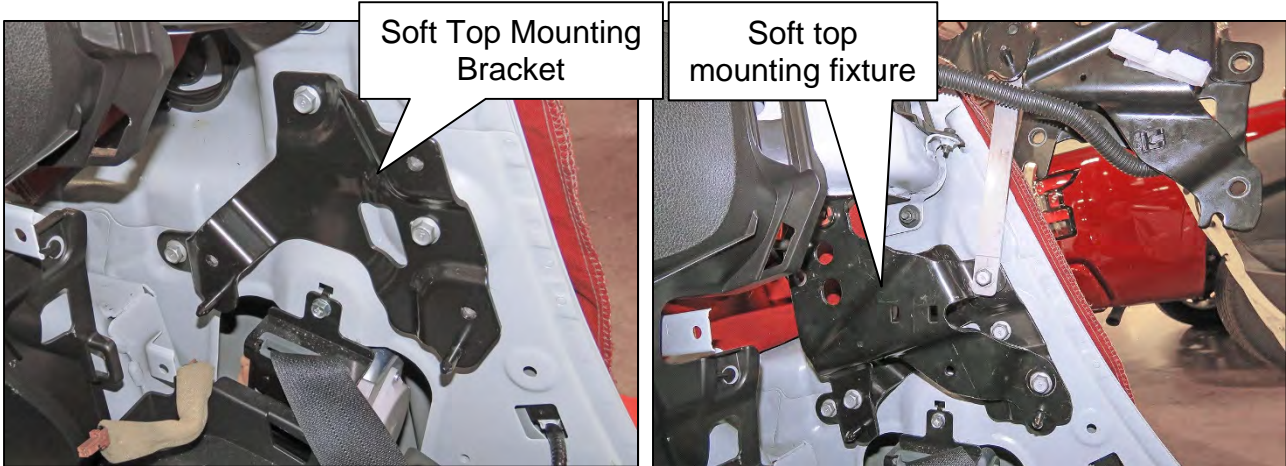


Figure 160

Figure 161

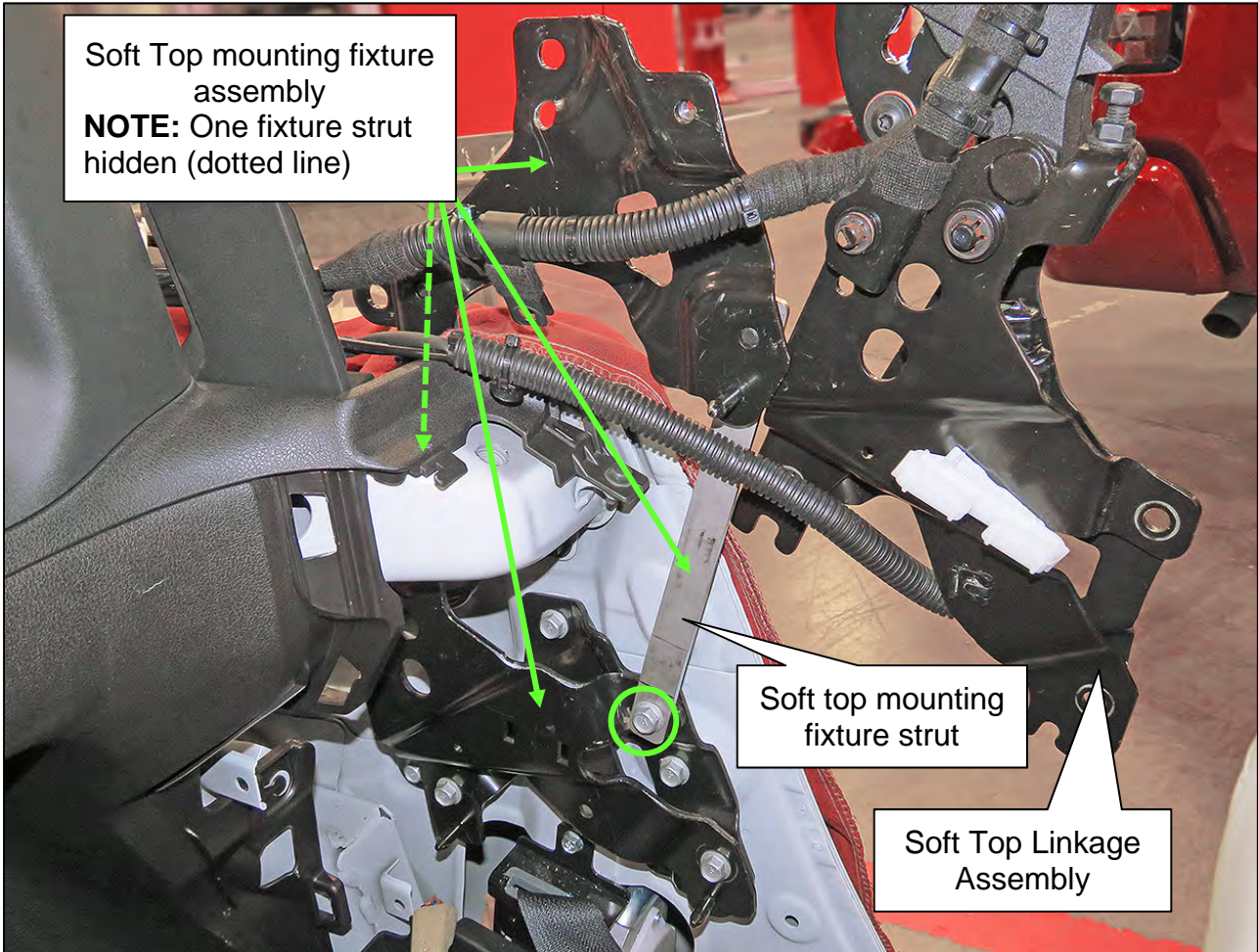


Figure 162

Additional view of Soft top mounting fixture assembly

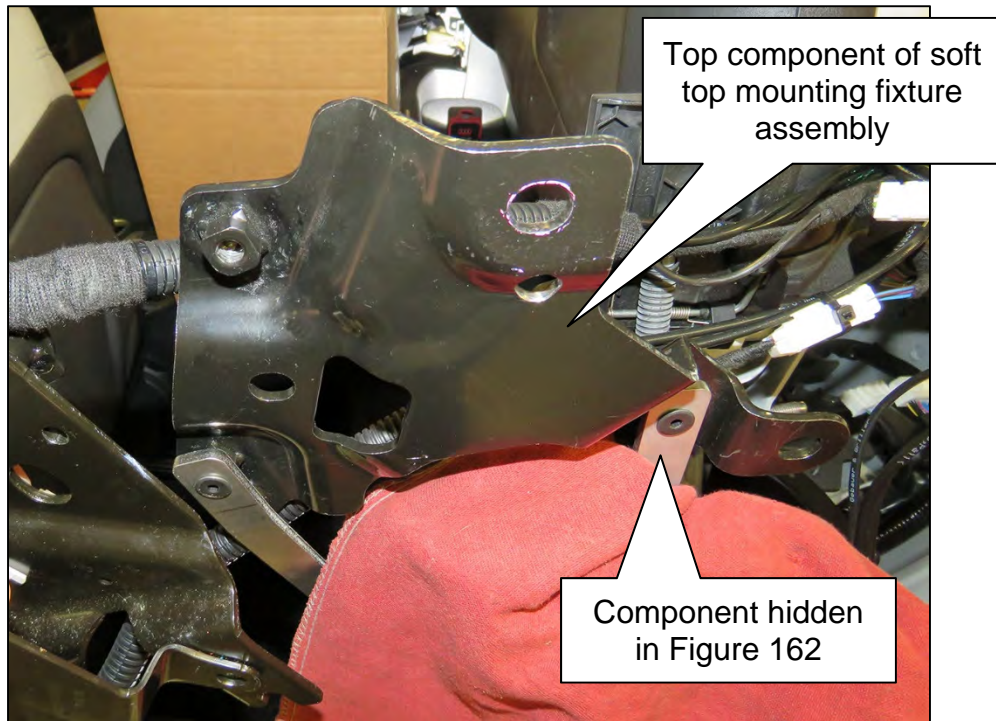


Figure 163

173. With help from a coworker, lift the Soft Top Assembly and carefully set it onto the soft top mounting fixture assembly, as shown in Figure 164. Also see Figure 165 on page 69.
174. While holding the Soft Top steady, install one (1) of the bolts from the kit on the driver side and one (1) bolt on the passenger side, where shown in Figure 164, to secure the Soft Top Linkage Assembly.

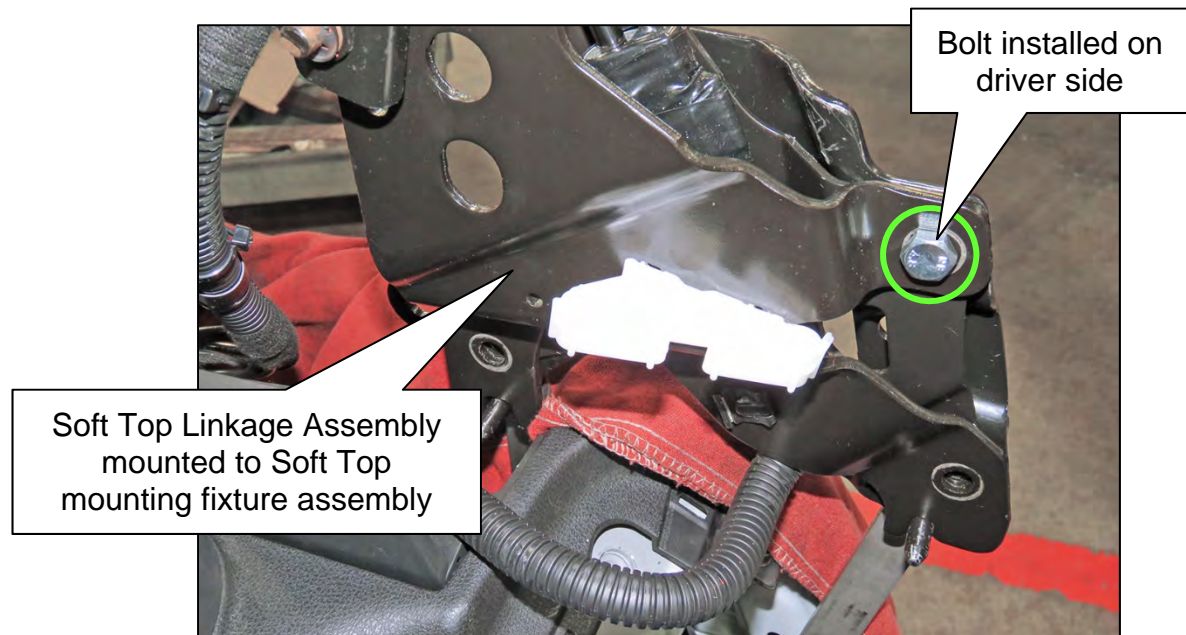


Figure 164

Figure 165 shows Soft Top mounted on Soft Top mounting fixture assembly.

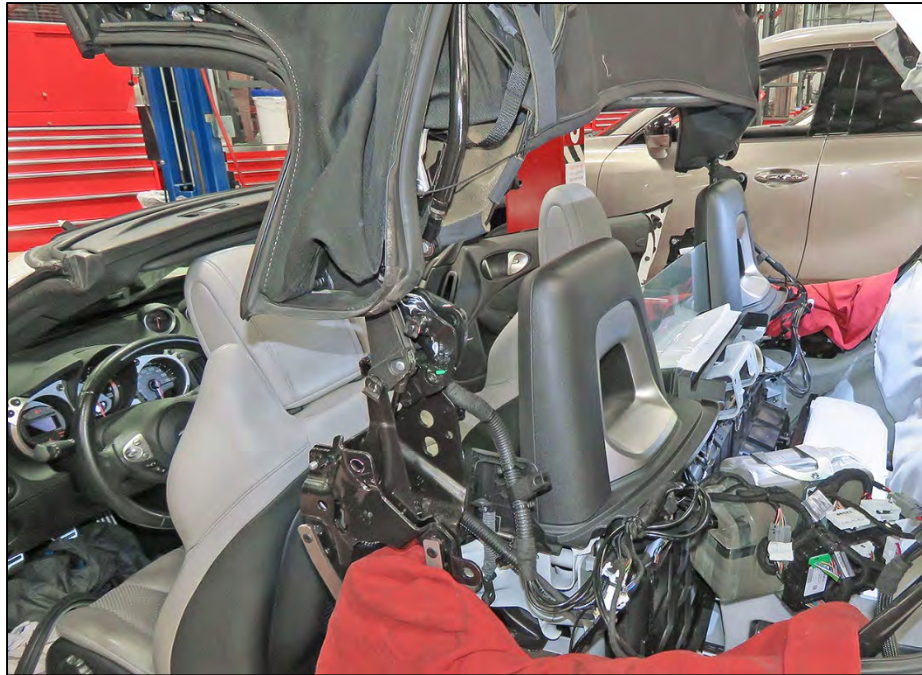


Figure 165

175. Add an additional box/spacer (or other appropriate object) to support the soft top.



Figure 166

176. Detach the Center Rail Weather-Strip LH from the Center Rail Weather-Strip Retainer LH by sliding it forward.

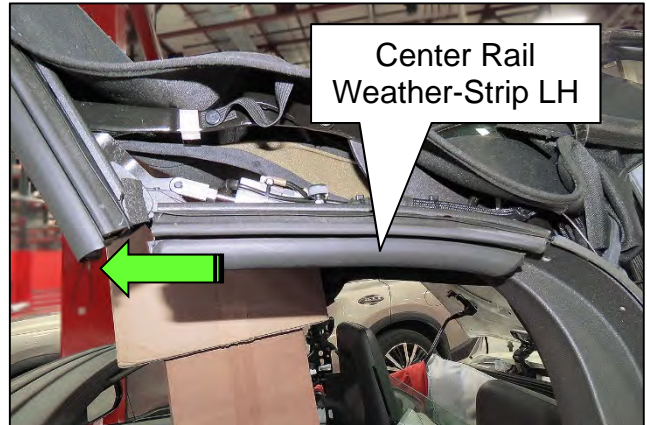


Figure 167

177. Remove three (3) star screws, and then detach the Center Rail Weather-Strip Retainer LH from the Soft Top Linkage Assembly.

HINT: Star screws are hidden under the lip of the seal and are accessed from the underside.

IMPORTANT: There are two different lengths of star screw. As they are removed, note where they came from.

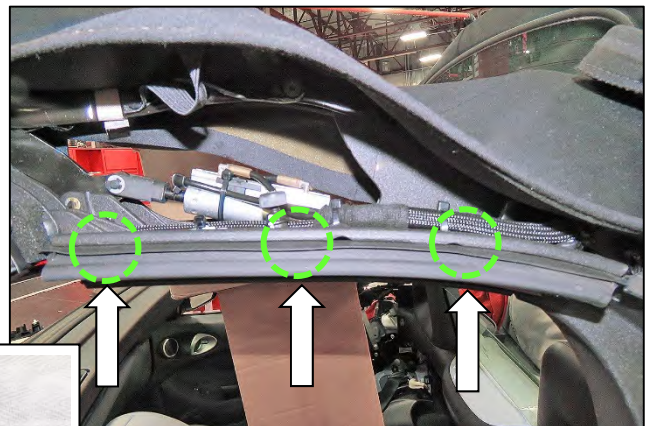


Figure 168



178. Remove one (1) star screw that retains the 5th Bow Bungee Cord (Figure 169).

179. Remove one (1) star screw that retains the Tension Cable and Tether (Figure 48).

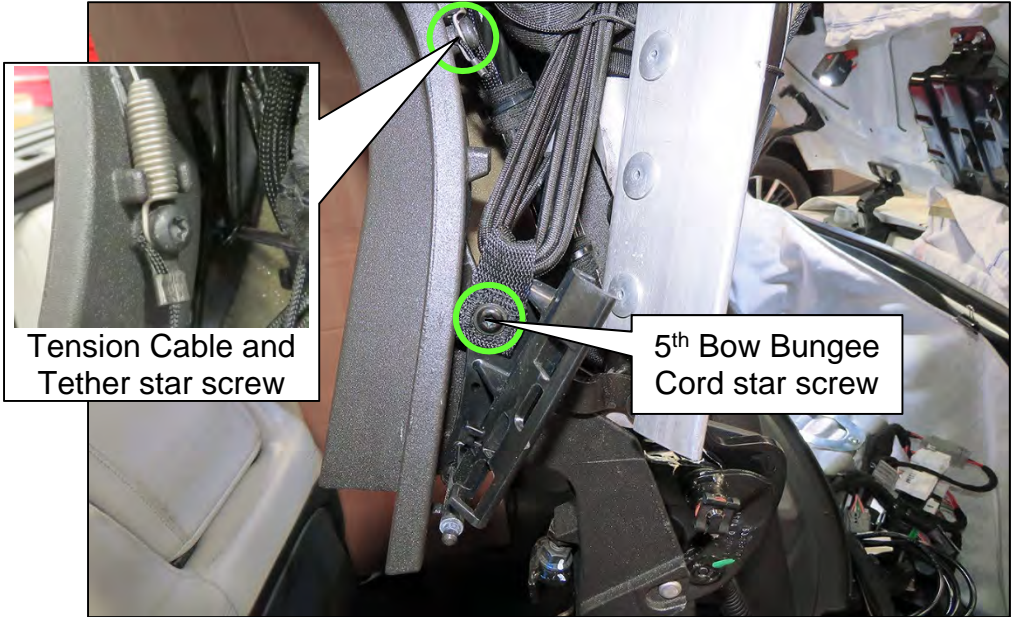


Figure 169

180. Remove the three (3) star screws that retain the Soft Top Cover Inner.

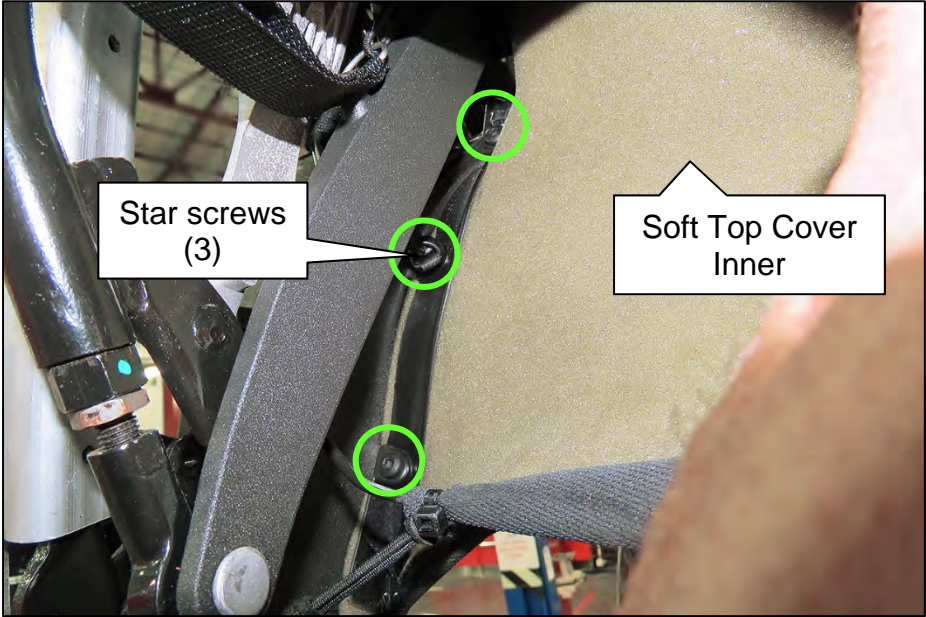


Figure 170

181. Remove two (2) spring clips (Figure 171).

- These spring clips will be reused.

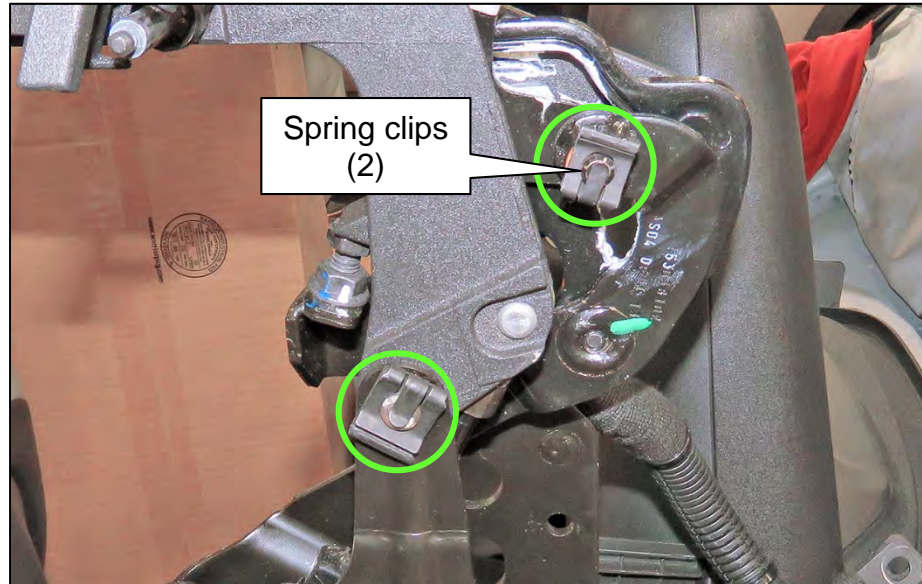


Figure 171

182. Remove two (2) push nuts and discard (Figure 172).

183. Remove one (1) spring clip (Figure 172).

- This spring clip will be reused.

184. Remove one (1) star screw (Hidden in Figure 172 behind harness).

- This star screw will be reused, but the plastic washer will be replaced.

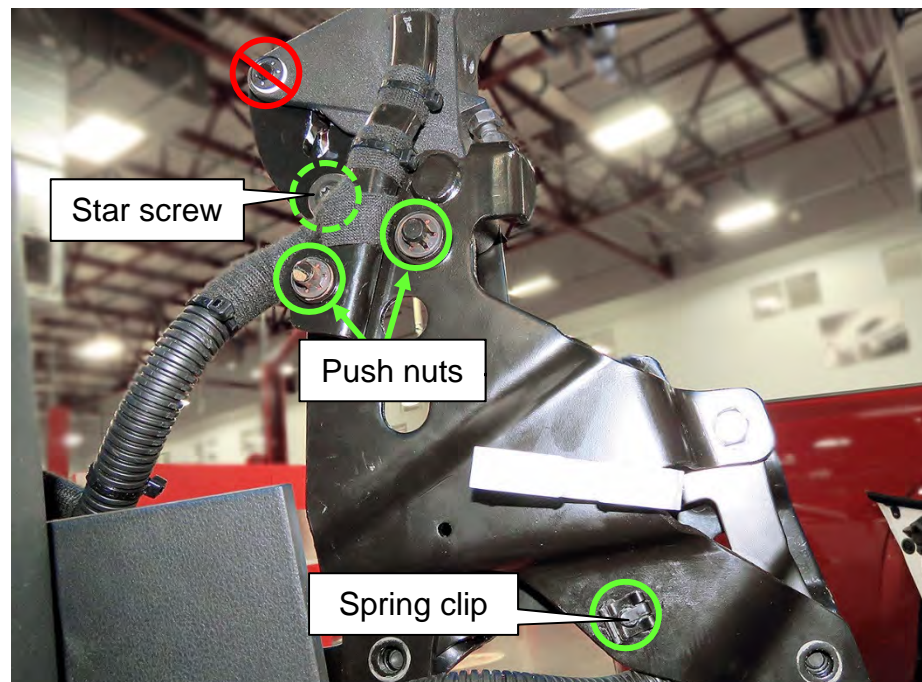


Figure 172

185. Remove the E-clip from the actuator eyelet pin, and then remove the actuator eyelet pin by sliding it out (Figure 173).

- E-clip hidden in Figure 173.

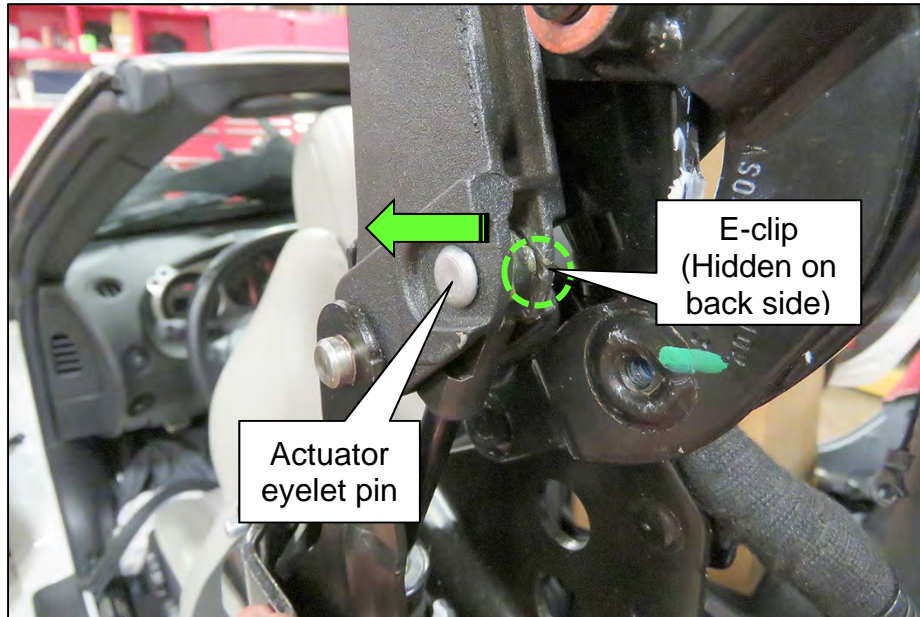


Figure 173

186. Temporarily remove the soft top mounting fixture assembly bolt installed in step 174 on page 68 (Figure 174).



Figure 174

187. Slide the actuator assembly off of the Rear Rail pivot pin (Figure 175).

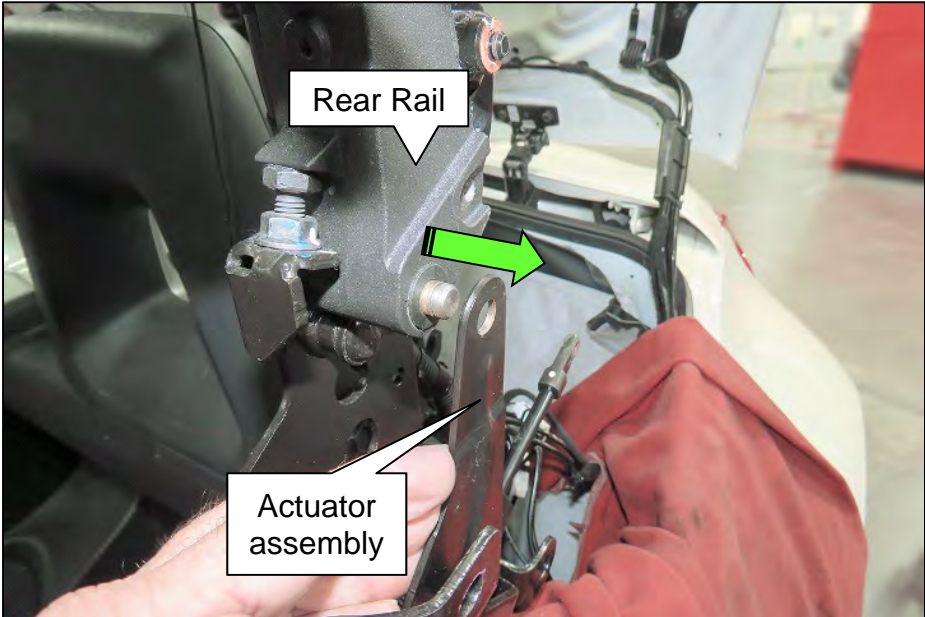


Figure 175

188. Rotate the actuator assembly toward the rear of the vehicle until it is clear of the Rear Rail pivot pin (Figure 176).

189. Reinstall the soft top mounting fixture assembly bolt removed in step 186 (Figure 176).

HINT: This will allow the Rear Rail to slide off its pivot pin later in the **SERVICE PROCEDURE**.

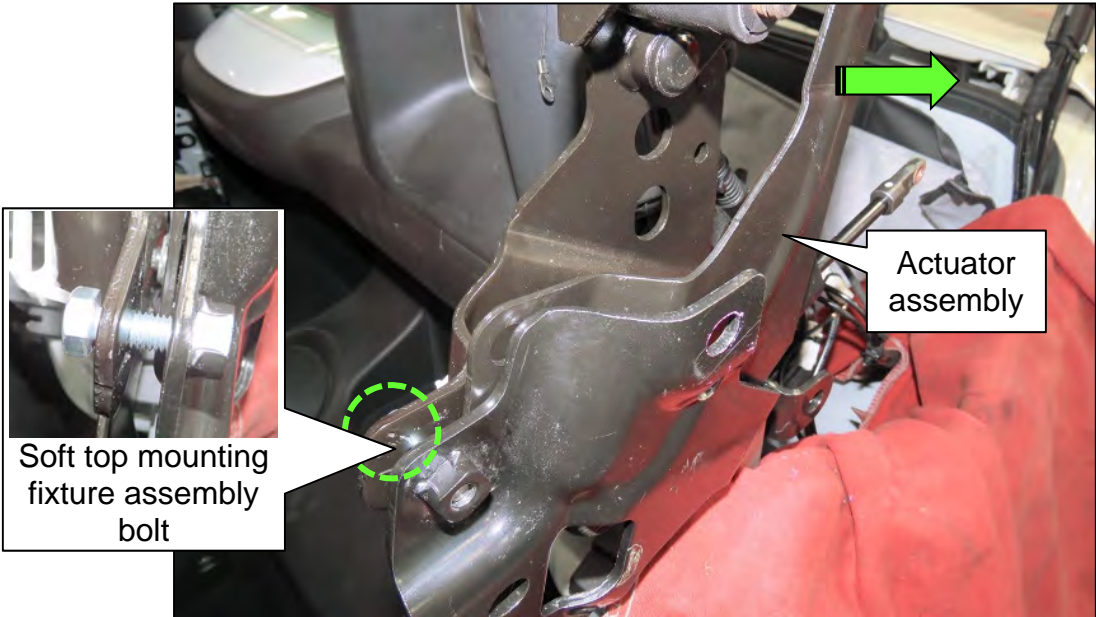


Figure 176

190. Shift the Soft Top support box/spacer (or other appropriate object) to the side of the Soft Top that is being worked on.

HINT: This will support the Soft Top when the Rear Rail is removed.

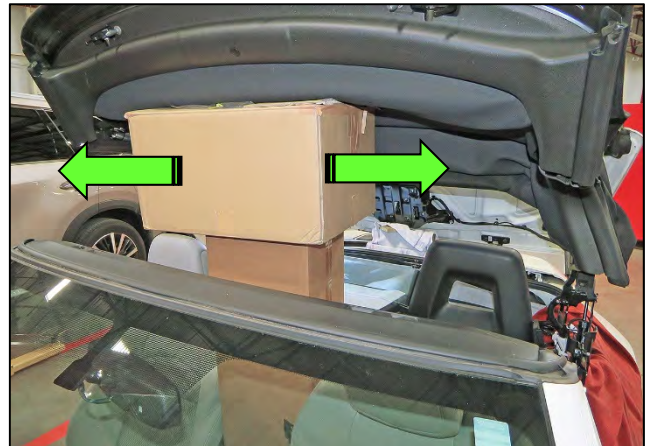


Figure 177

191. Disconnect the drag link from its pivot pin.

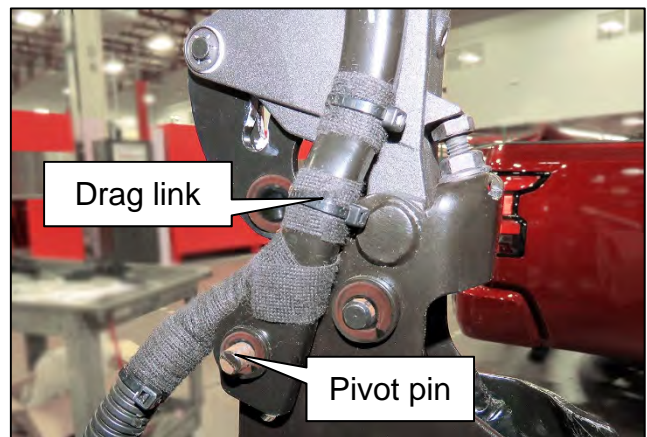


Figure 178

192. Remove the E-clip from the Soft Top Linkage Assembly to Rear Rail pivot pin (pivot pin), where shown in Figure 179.

- E-clip hidden in Figure 179.
- E-clip accessed from inside the vehicle.

193. Slide the pivot pin out approximately 11 mm with an appropriate tool, but do not completely remove.

HINT: This will help keep the rest of the linkage components in line.

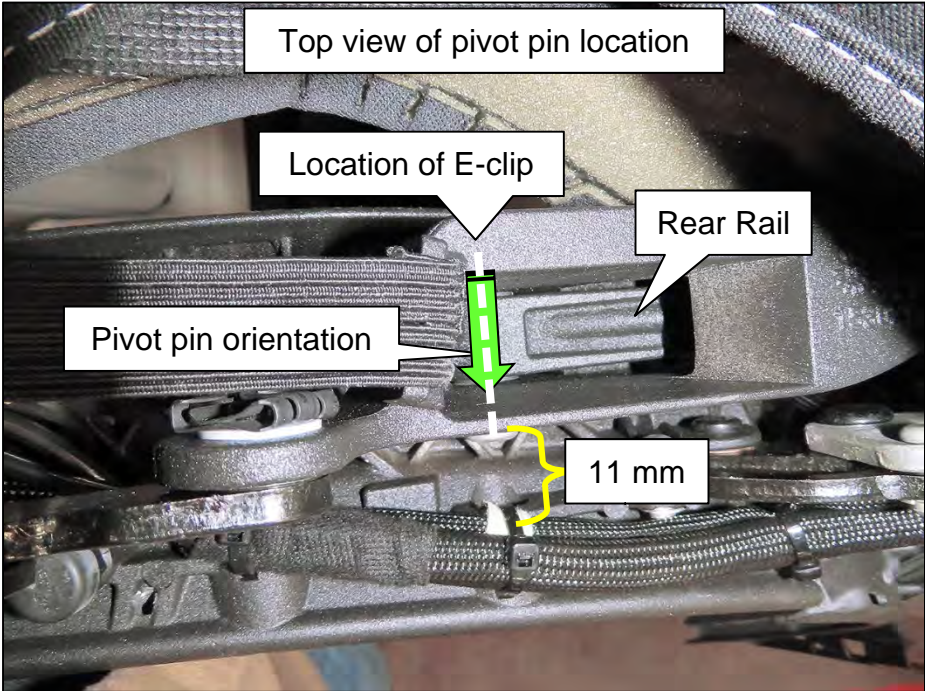


Figure 179

Additional images of pivot pin.

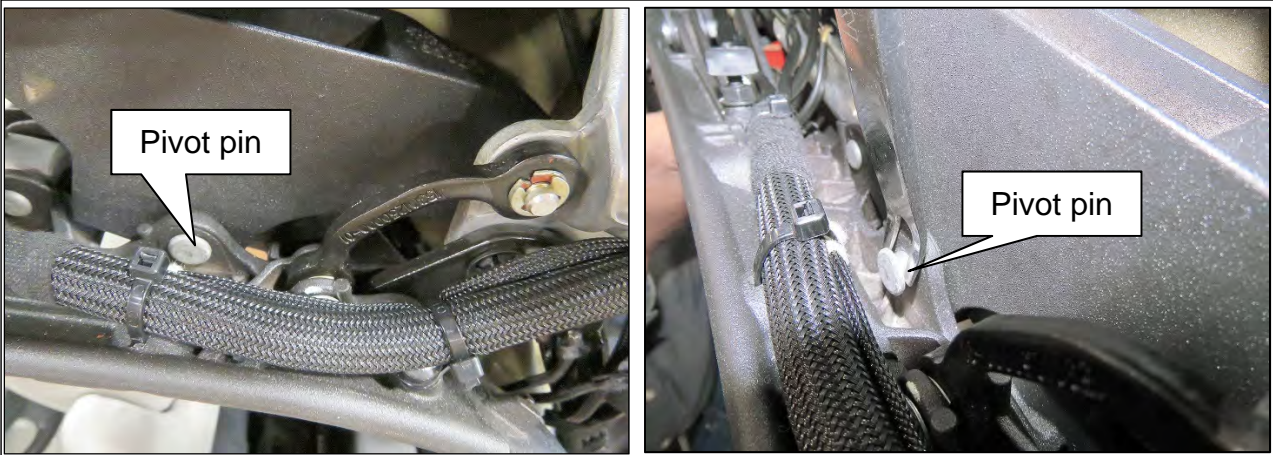


Figure 180

194. Remove the 5th Bow control linkage (Figure 181 and Figure 182).

- Slides off of two (2) pivot pins and one (1) cam pin.

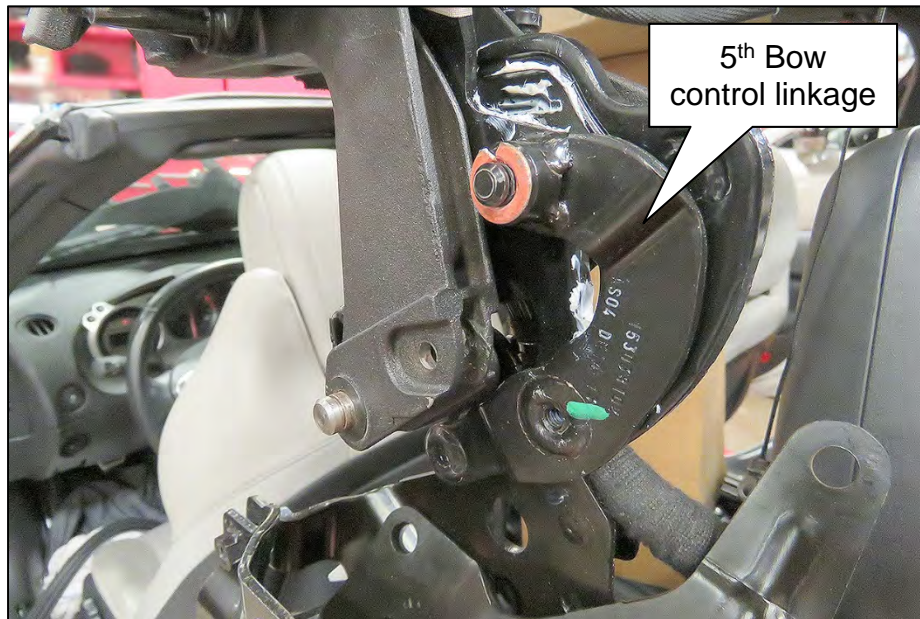


Figure 181

- Figure 182 is a side view, as 5th Bow linkage is being removed.

IMPORTANT: Retain the thrust washer shown in Figure 182, it will be reused.

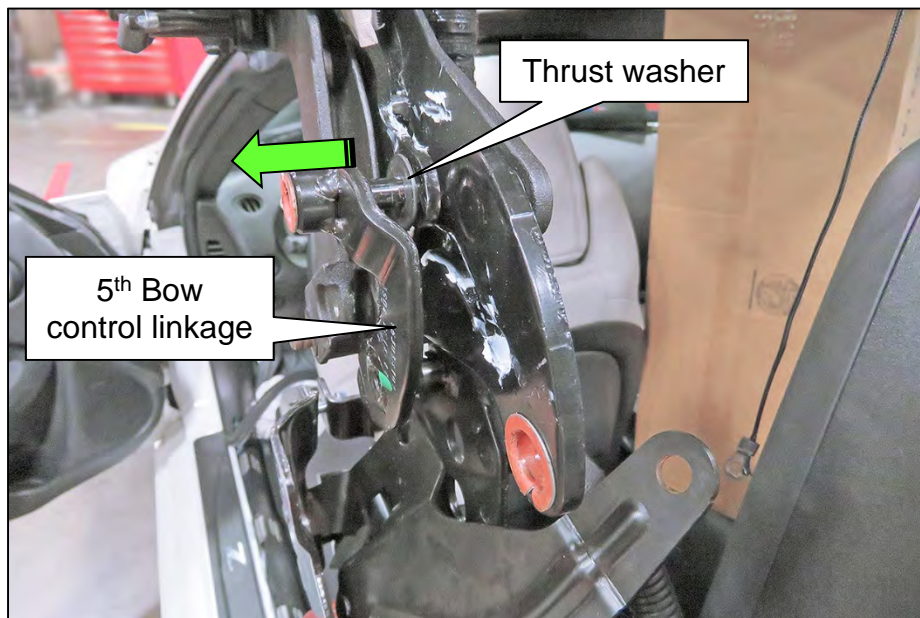


Figure 182

195. Detach the 5th Bow linkage from the remaining Rear Rail linkage (Figure 183).

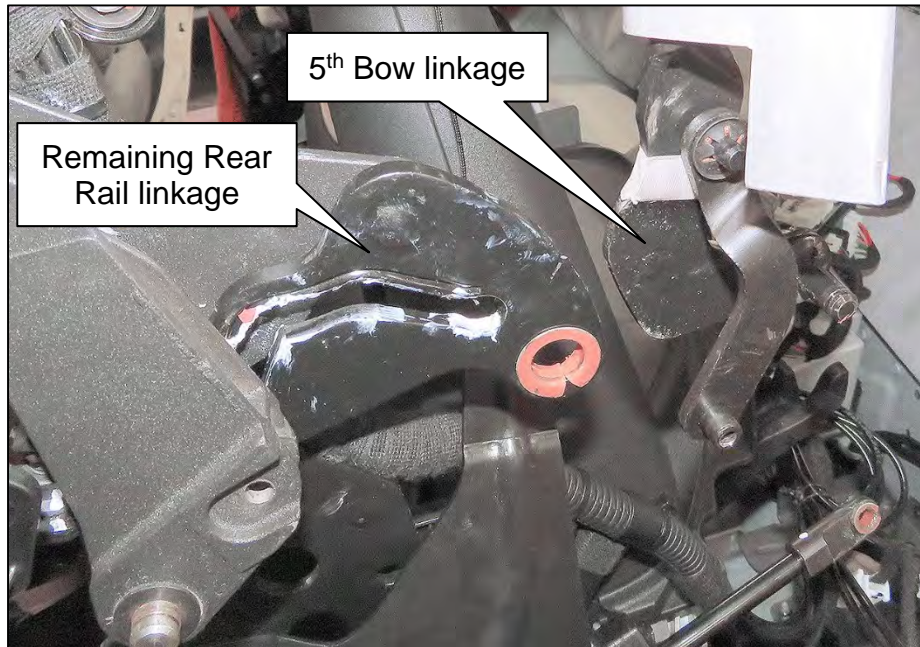


Figure 183

196. While supporting the Soft Top Linkage Assembly, where shown in Figure 184, gently pull the linkage assembly toward the front of the vehicle, and then slide the Rear Rail off of its pivot pin.

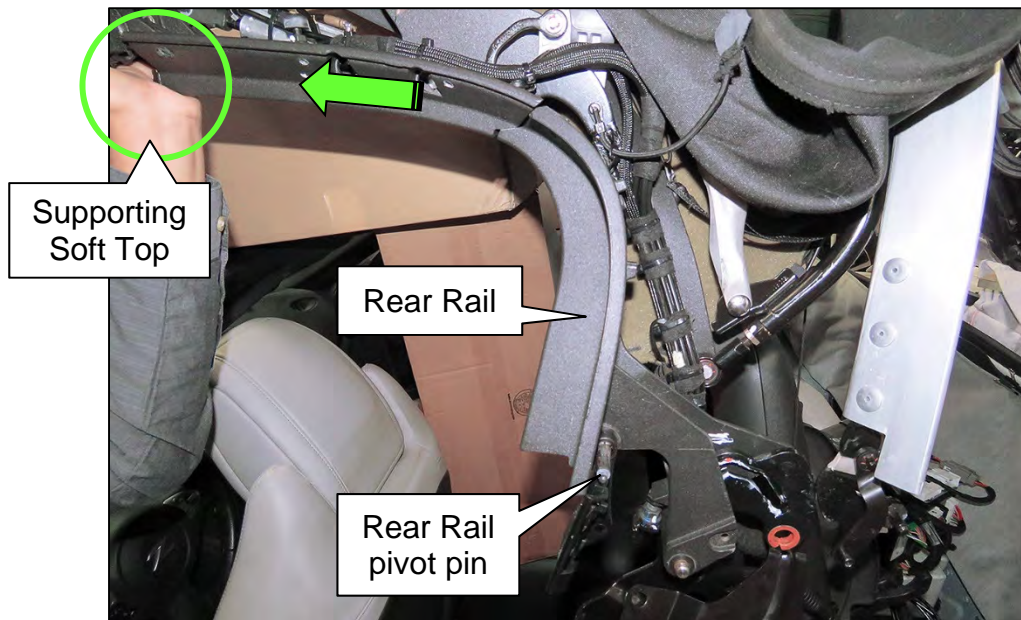


Figure 184

197. Install the new Rear Rail onto the Rear Rail pivot pin and Soft Top Linkage Assembly.

- See the **PARTS INFORMATION** for new Rear Rail. Part of RAIL KIT - FOLDING ROOF.

198. Reassemble the Soft Top linkages on the driver side of the vehicle in the reverse order of disassembly (steps 176-197), and then proceed to step 199.

- Reference the passenger side of the vehicle for assembly.
- Torque all Rear Rail star screws to 3 N•m (0.3 kg-m, **26.6 in-lb**)

NOTICE

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

199. Perform steps 176-198, starting on page 70, on the passenger side of the vehicle, and then proceed to step 200.

- Reference the driver side of the vehicle for assembly.
- Torque all Rear Rail star screws to 3 N•m (0.3 kg-m, **26.6 in-lb**)

NOTICE

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

200. Remove the Soft top mounting fixtures and reassemble the Soft Top to the vehicle by performing steps 167-174 in the reverse order.

- Replace the zip ties removed in step 168 on page 66.

201. Reassemble the remaining components of the vehicle in the reverse order of disassembly.

202. Operate the Soft Top and confirm that it operates correctly and is properly adjusted.

- For adjustments, refer to the ESM: **REPAIR > BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY > ROOF > REMOVAL AND INSTALLATION > SOFT TOP ASSEMBLY**

End of **Replace the Soft Top Bungees and Both Rear Rails SERVICE PROCEDURE**.
Skip to the **CLAIMS INFORMATION**.

Replace Rear Rails Only

Steps in the following **SERVICE PROCEDURE** are shown from the driver (LH) side of the vehicle. The passenger (RH) side is similar.

203. Open the driver and passenger side doors, and then remove the Kicking Plate Inner from both sides with an appropriate tool (Figure 185).

- Refer to the ESM: **REPAIR > BODY INTERIOR > INTERIOR > REMOVAL AND INSTALLATION > KICKING PLATE INNER**

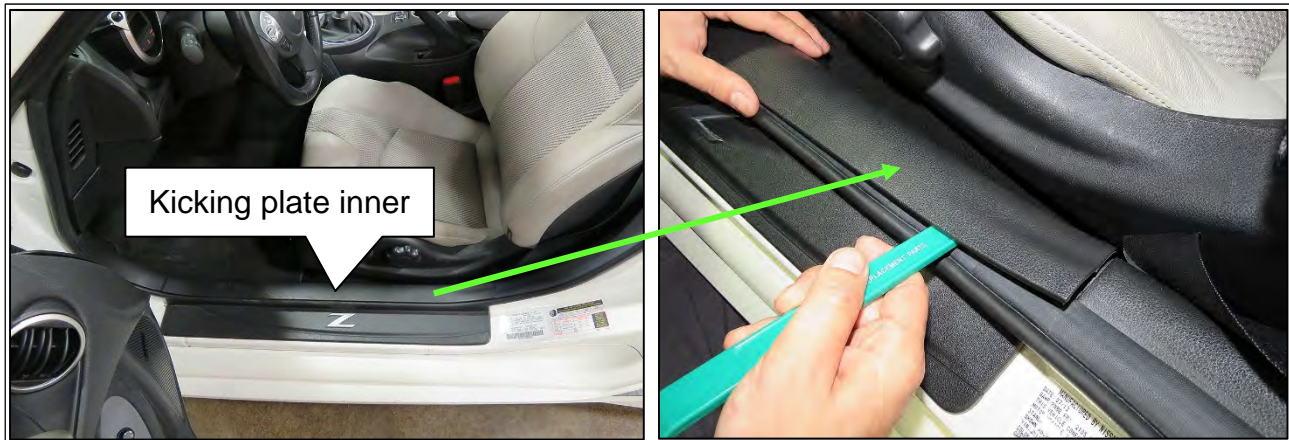


Figure 185

204. Remove both the driver and passenger side seatbelt Shoulder Anchors.

- a. Open the Shoulder Anchor Cover (Figure 186).
- b. Remove the Shoulder Anchor bolt (Figure 187).



Figure 186

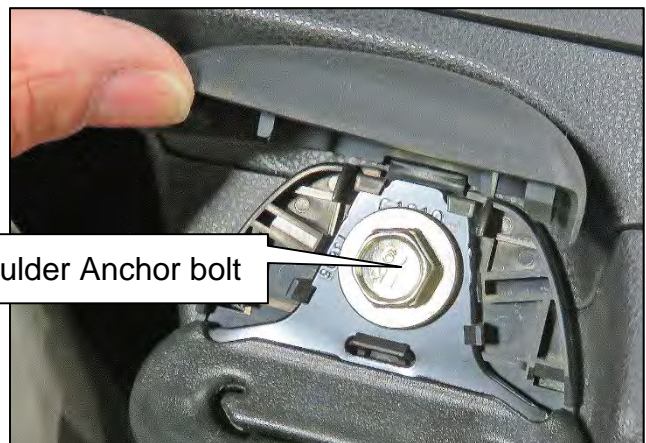


Figure 187

205. Detach the Body Side Welt from both the driver and passenger sides of the vehicle and the Rear Side Finishers.

HINT: The entire Body Side Welt does not need to be removed. Only remove enough to allow the Rear Side Finishers to be removed in upcoming steps.

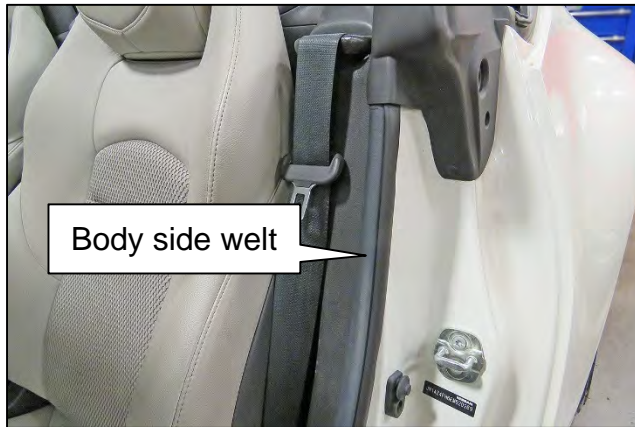


Figure 188



Figure 189

206. Open the soft top, but stop before the Storage Lid Assembly starts to close.



Figure 190

207. Support the Storage Lid Assembly as shown in Figure 191, to prevent it from closing.



Figure 191

208. Remove both the driver and passenger side Flipper Spring Bracket bolts.
- This will allow Flipper Doors to open.

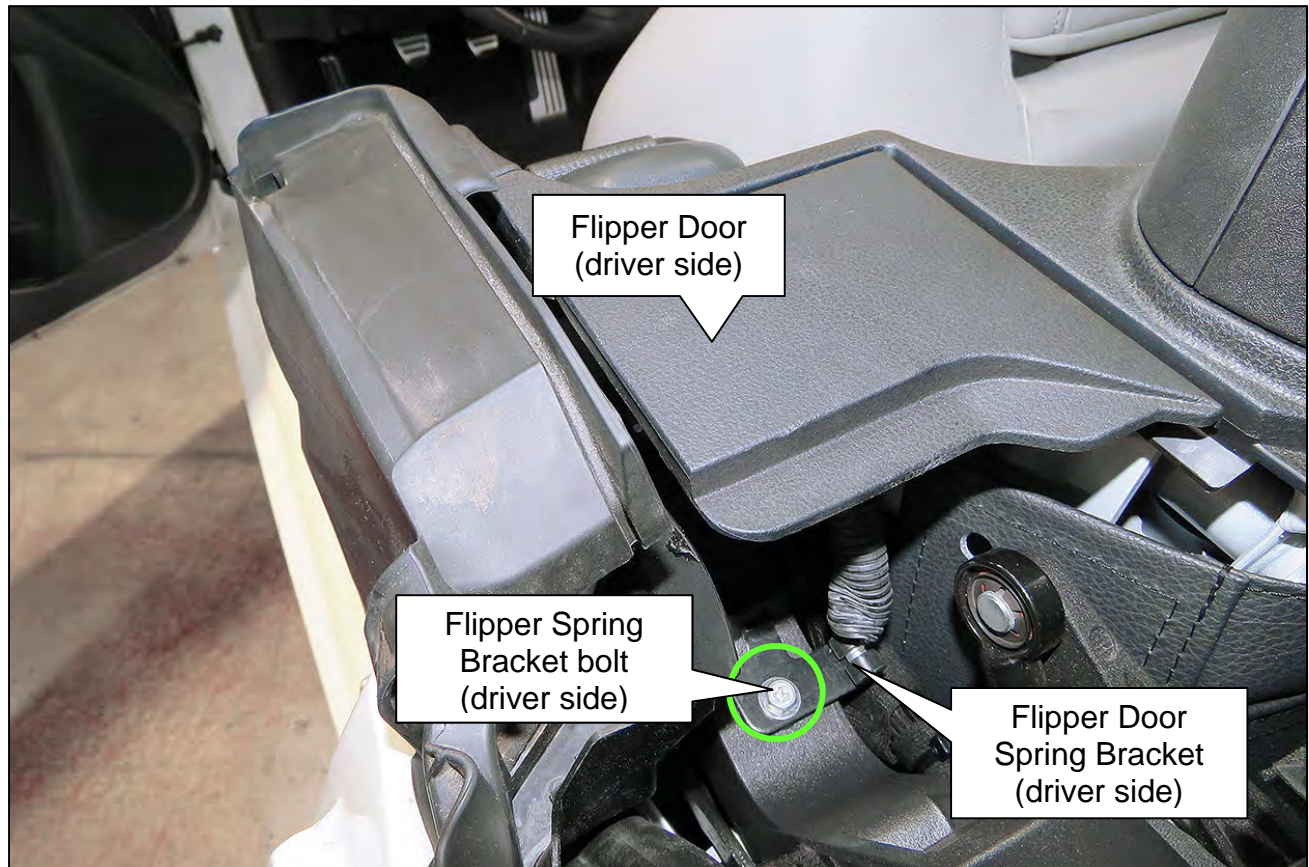


Figure 192

209. Move both the driver and passenger side seats all the way forward.

210. Remove both the driver and passenger side Rear Side Finishers.

- Refer to the ESM: **REPAIR > BODY INTERIOR > INTERIOR > REMOVAL AND INSTALLATION > REAR SIDE FINISHER**



Figure 193

211. Close the soft top half way, as shown in Figure 194.



Figure 194

212. To prevent the 5th bow from sinking, secure the soft top with a bungee cord, as shown in Figure 195.



Figure 195

213. Detach the Storage Room Finisher (vinyl fabric) from the rear of the Rear Parcel Shelf Finisher Assembly.

- Refer to the ESM: **REPAIR > BODY INTERIOR > INTERIOR > REMOVAL AND INSTALLATION > STORAGE ROOM FINISHER**

Rear Parcel Shelf
Finisher Assembly

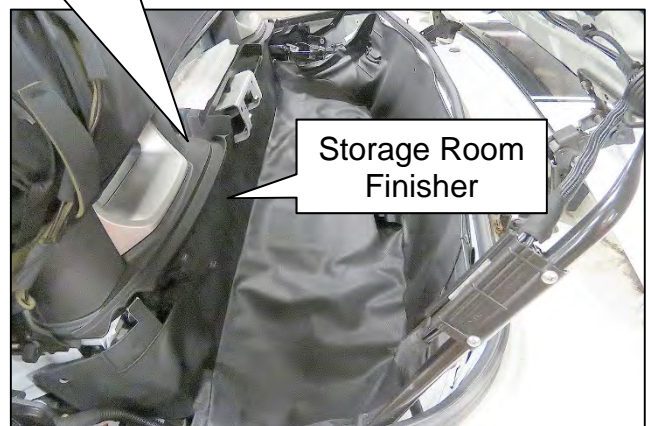


Figure 196

214. Fold Storage Room Finisher onto itself.



Figure 197

215. Fold Storage Room Finisher a second time up against the back side of the storage room (Figure 198), and then secure with a clip (Figure 199).

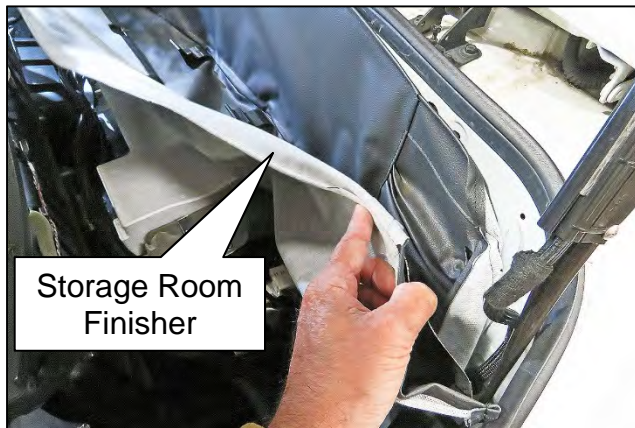


Figure 198



Figure 199

216. Remove the driver and passenger side hydraulic hose retainer bolts (Figure 200).

HINT: These are the hydraulic hoses that extend into the soft top.

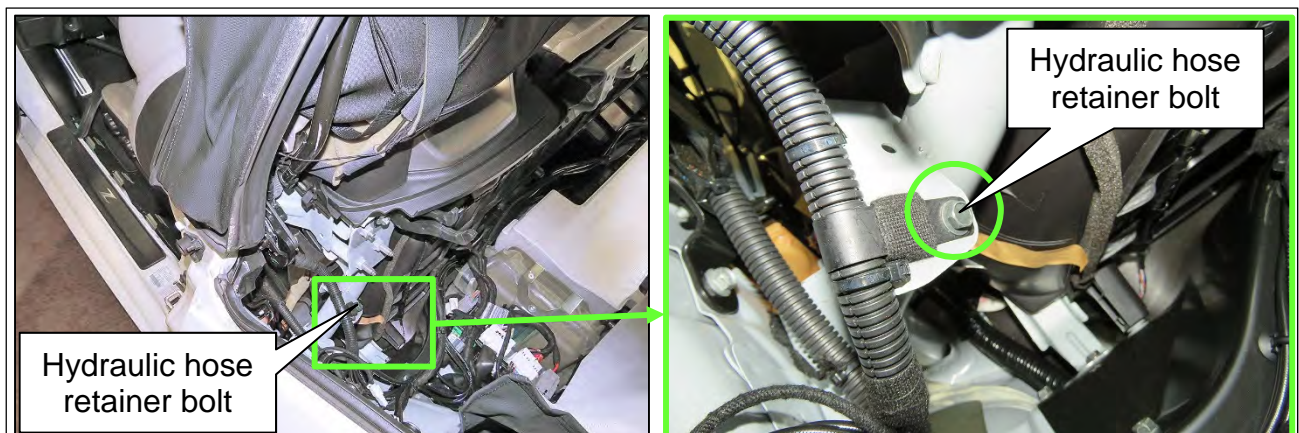


Figure 200

217. Remove the three (3) mounting nuts that retain the soft top Hydraulic Unit Assembly (Figure 201).

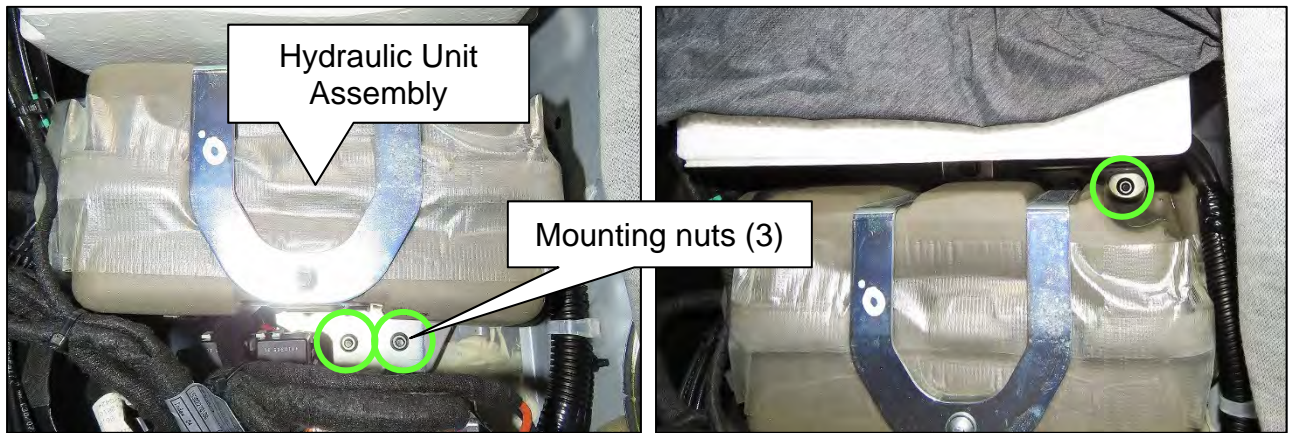


Figure 201

218. Disconnect the two (2) white harness connectors shown in Figure 202.

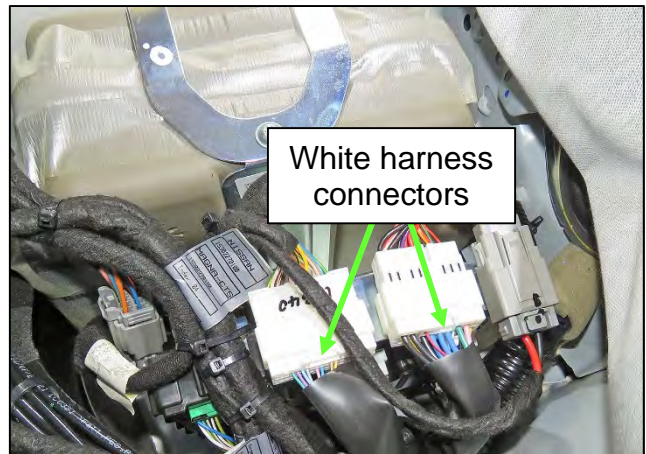


Figure 202

219. Detach the thirteen (13) hydraulic hose clips that connect the Hydraulic Unit Assembly to the soft top hydraulic actuators, that secure the hoses to the vehicle, where shown in Figure 203.

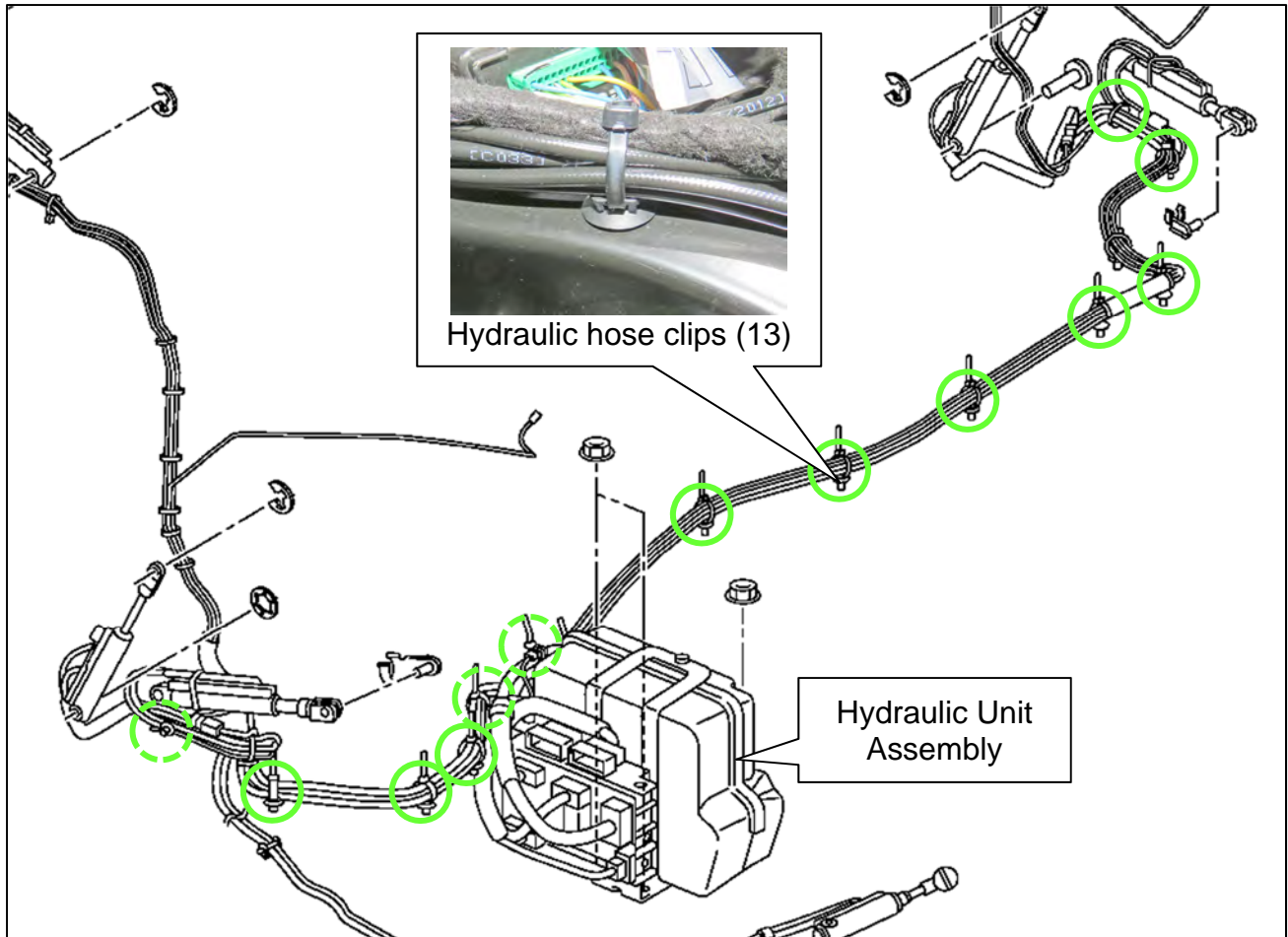


Figure 203

220. Loosen, but do not remove, the ground bolt shown in Figure 204, and then slide out the forked ground terminal. Located behind passenger seat.

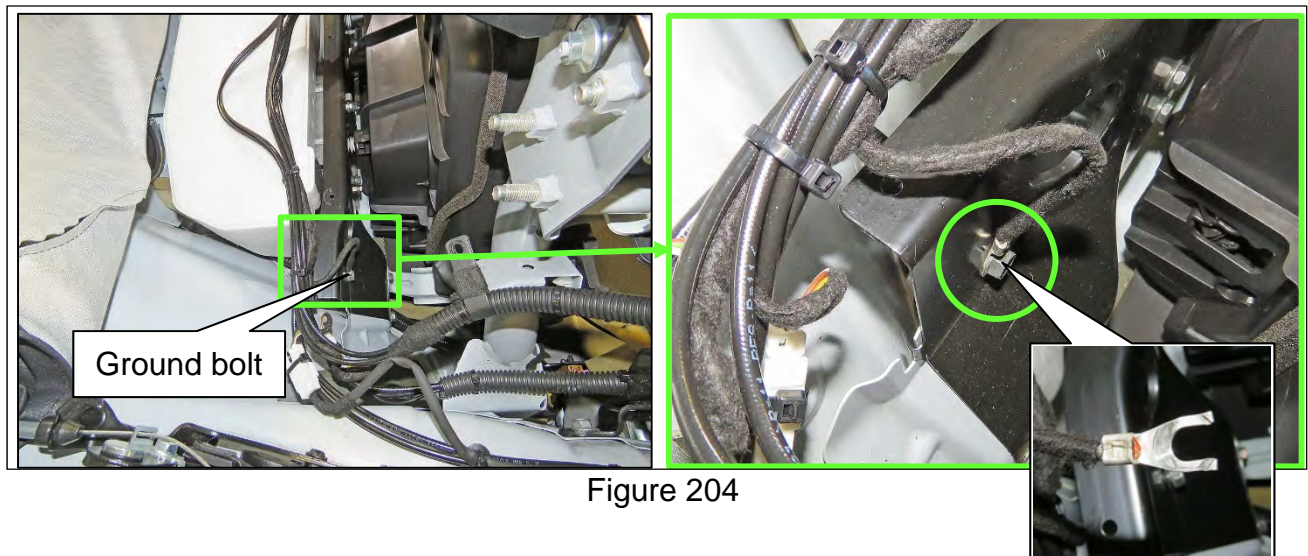


Figure 204

221. Lift the Hydraulic Unit Assembly away from its mounting studs, and set it on the white foam insert that is next to it.

HINT: Relocating the Hydraulic Unit Assembly will allow the Soft Top to be raised later in this procedure.

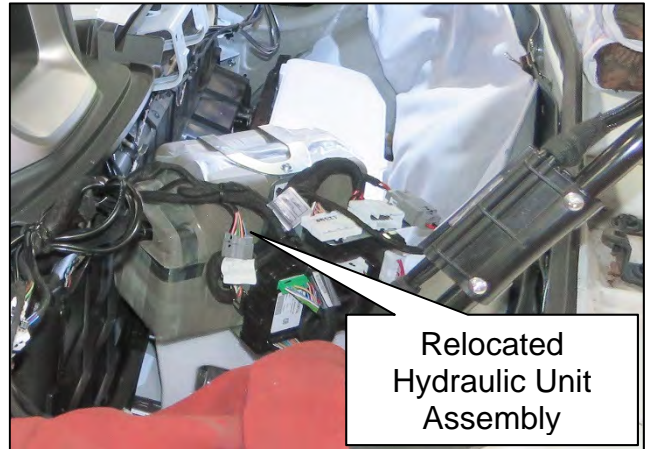


Figure 205

Assembly of the Soft Top Mounting Fixtures

See the **TOOLS INFORMATION** starting on page 106 for a list of the components required to assemble the driver and passenger side soft top mounting fixtures.

222. Select the soft top mounting fixture component that is marked “LH” (Figure 206).



Figure 206

223. Assemble the driver side soft top mounting fixture as shown in Figure 207 and Figure 208.

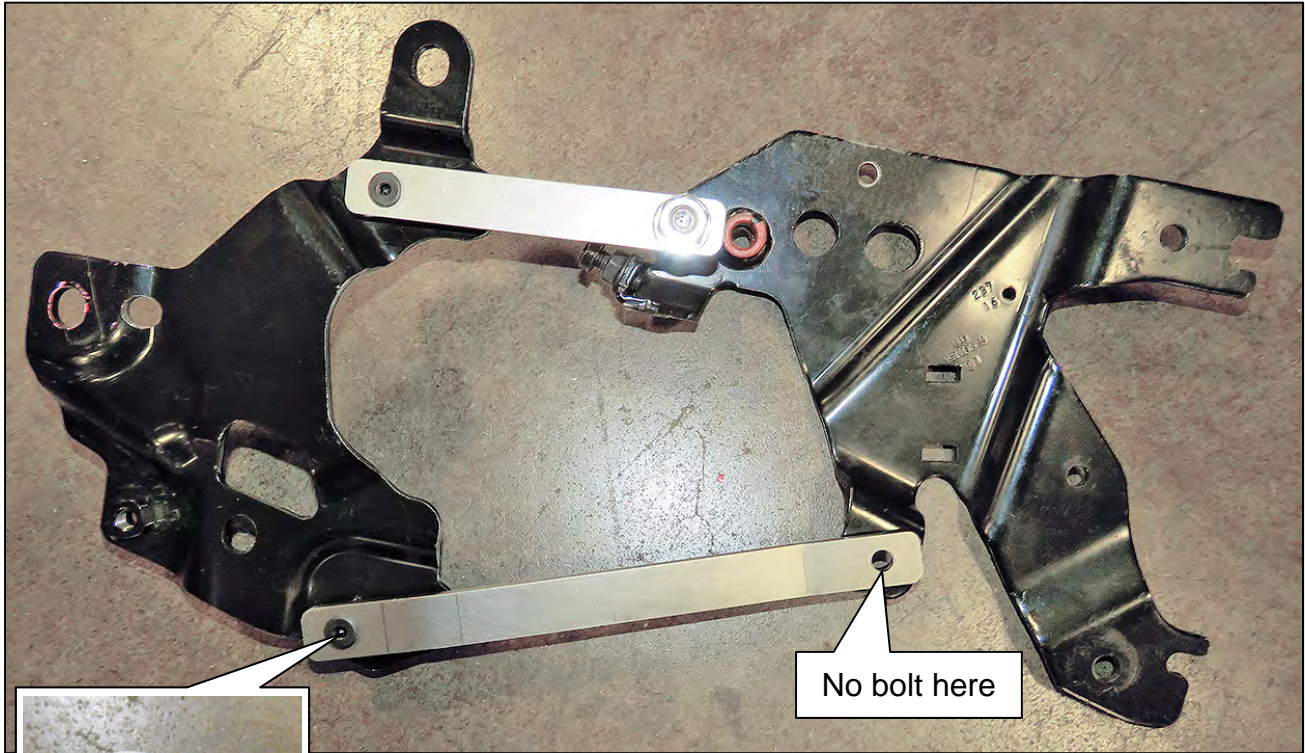


Figure 207

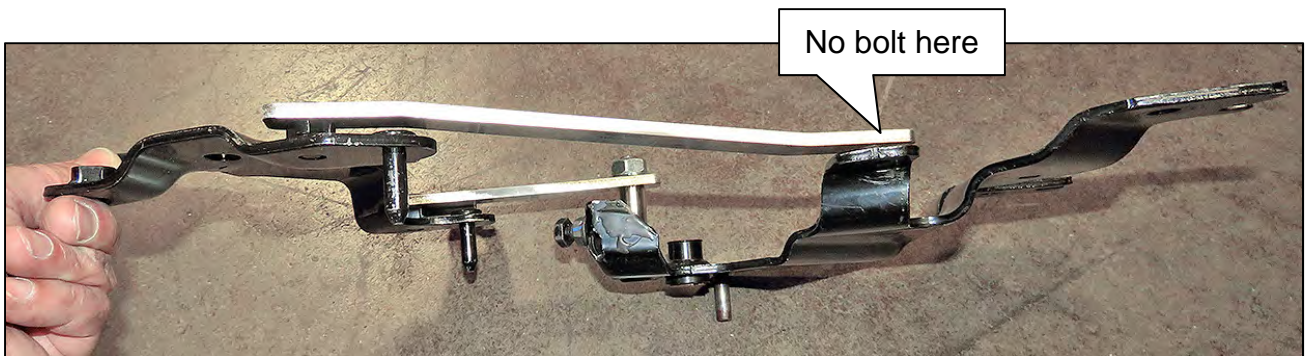


Figure 208

224. After assembling the driver side soft top mounting fixture, assemble the passenger side soft top mounting fixture.

HINT: The passenger side soft top mounting fixture will be the mirror image of Figure 207 and Figure 208.

225. Support the soft top with a box, or other appropriate object.



Figure 209

226. Remove both the driver and passenger side seatbelts from the white plastic guides.

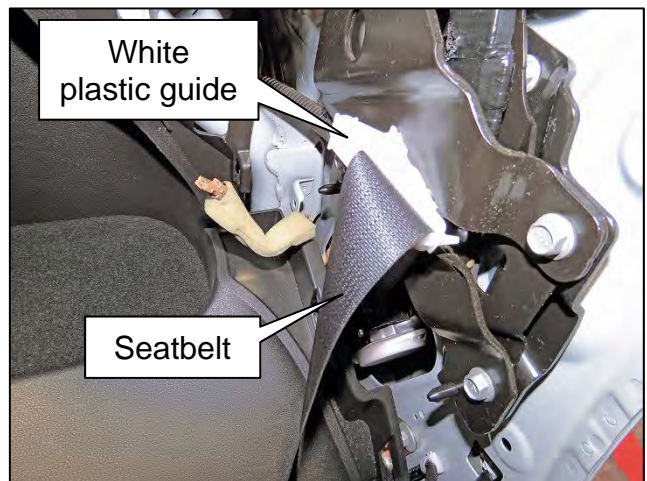


Figure 210

227. Remove the two (2) zip ties, shown in Figure 211, from both the driver and passenger side Soft Top Linkage Assemblies.
228. Remove the three (3) mounting bolts, shown in Figure 211, that attach the Soft Top Linkage Assembly to the Soft Top Mounting Bracket from both the driver and passenger sides.

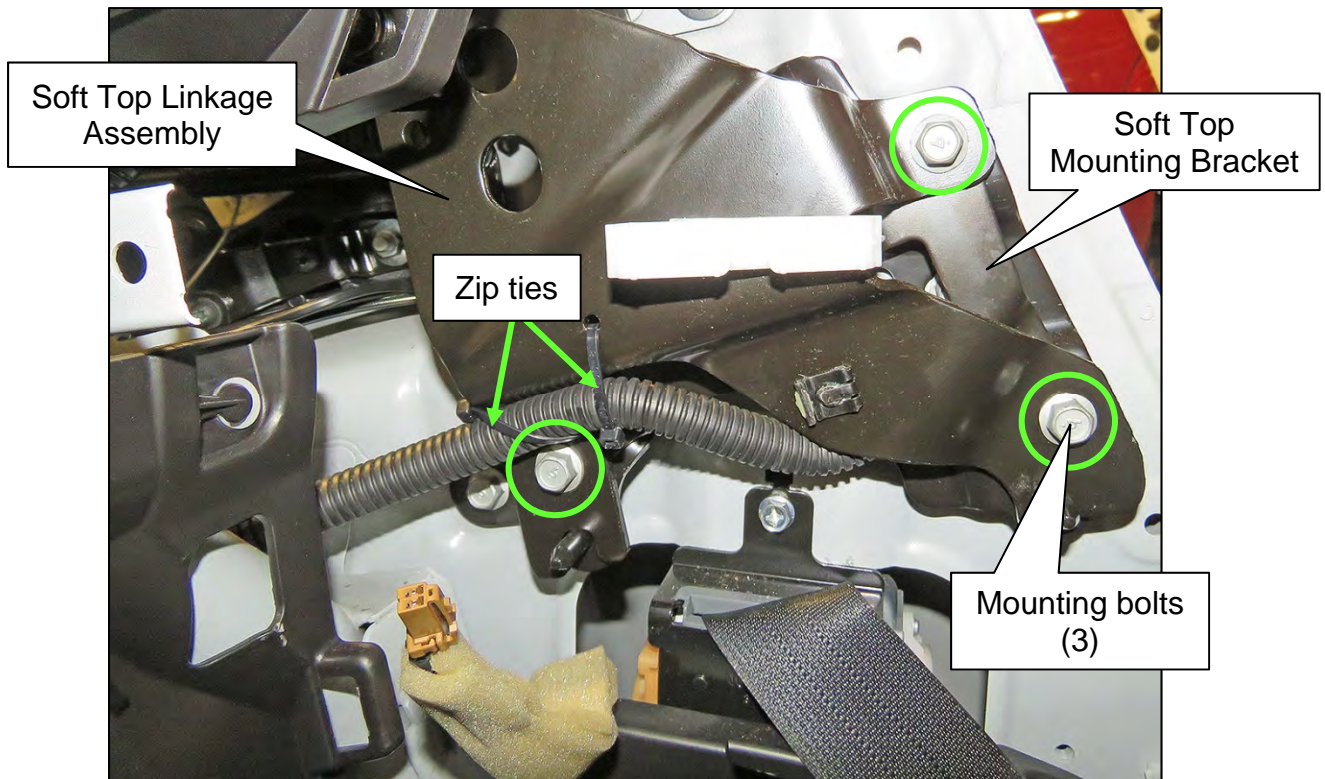


Figure 211

229. Place fender covers over both the driver and passenger side b-pillar areas and across the top edge of the windshield.

230. With help from a coworker, lift the Soft Top Assembly off of the Soft Top Mounting Brackets, and then allow it to rest on the box and top edge of the windshield frame.

NOTICE

To prevent damage to the windshield glass, do not allow the soft top frame and glass to come into contact with each other.

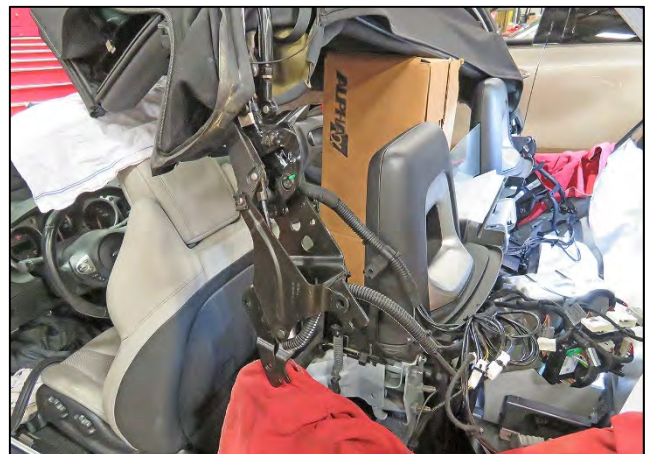


Figure 212

231. Attach the soft top mounting fixtures (Figure 214) to both the driver and passenger side Soft Top Mounting Brackets (Figure 213), and secure them with their three (3) original bolts, hand tight.

- One (1) of the three (3) bolts (Figure 215) passes through a soft top mounting fixture strut and the soft top mounting fixture, before being threaded into the Soft Top Mounting Bracket.
- One (1) of the two (2) soft top mounting fixture struts is hidden in Figure 215. See Figure 216 on page 92 for hidden fixture strut.

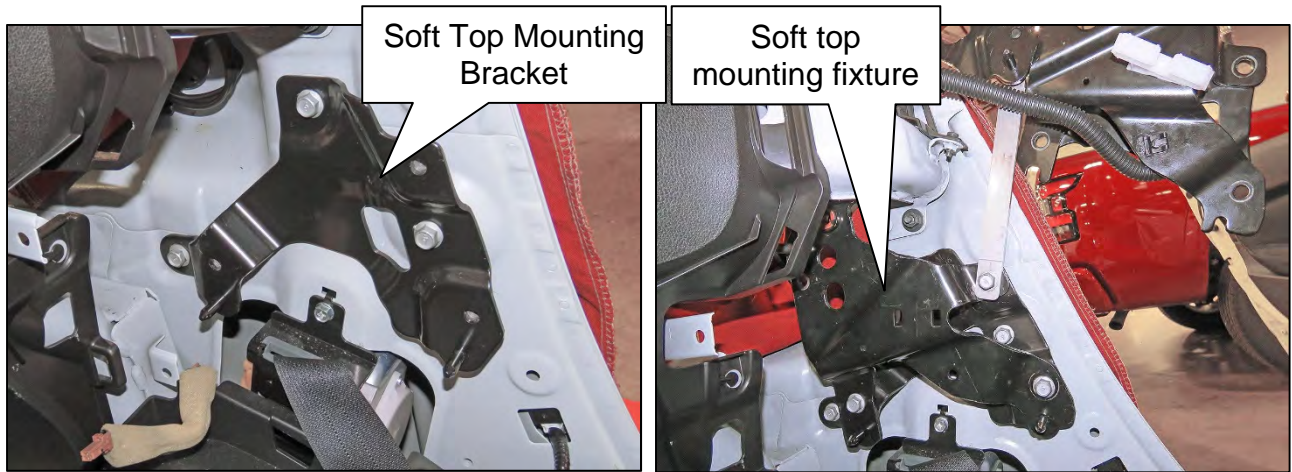


Figure 213

Figure 214

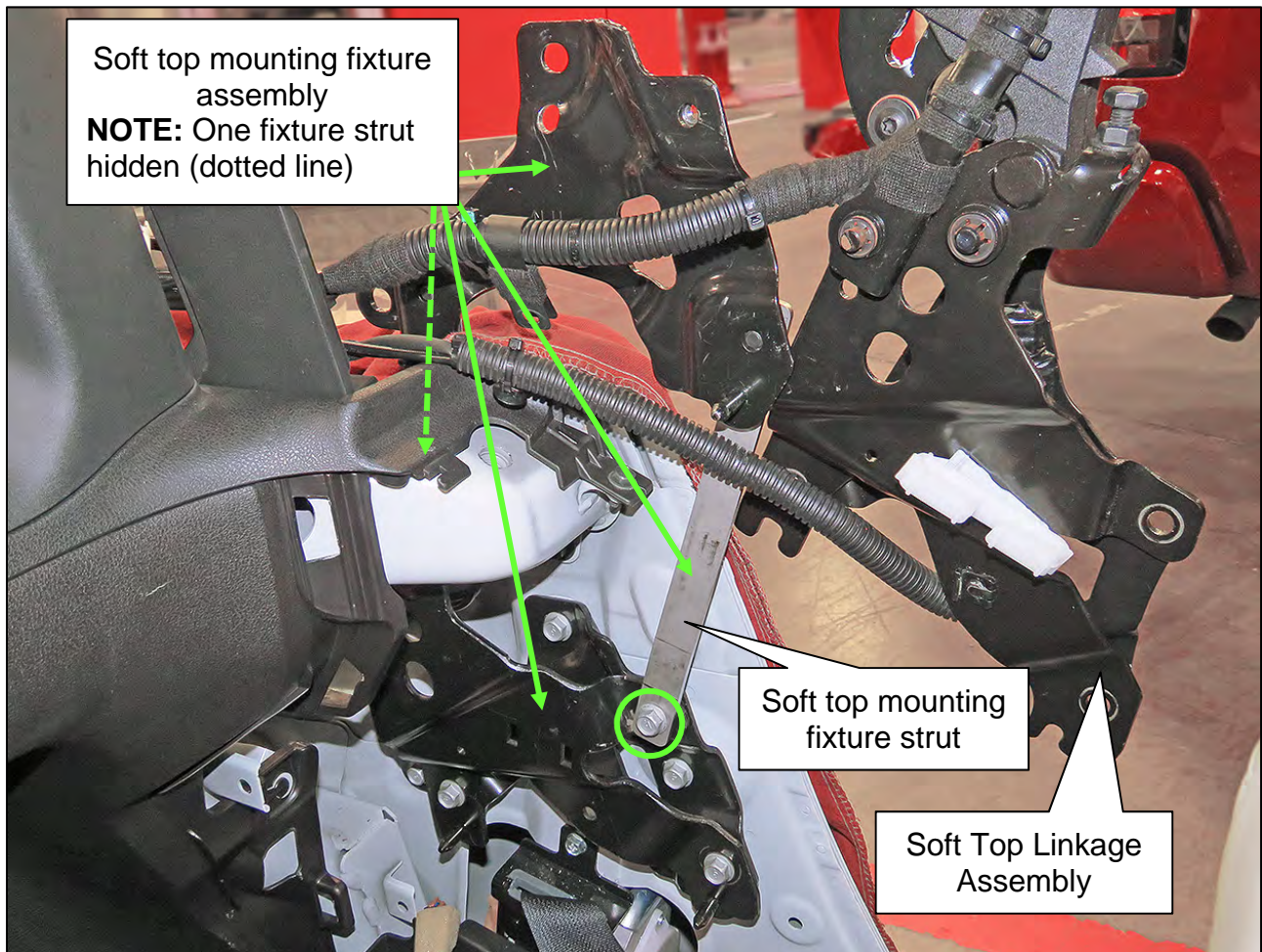


Figure 215

Additional view of Soft top mounting fixture assembly

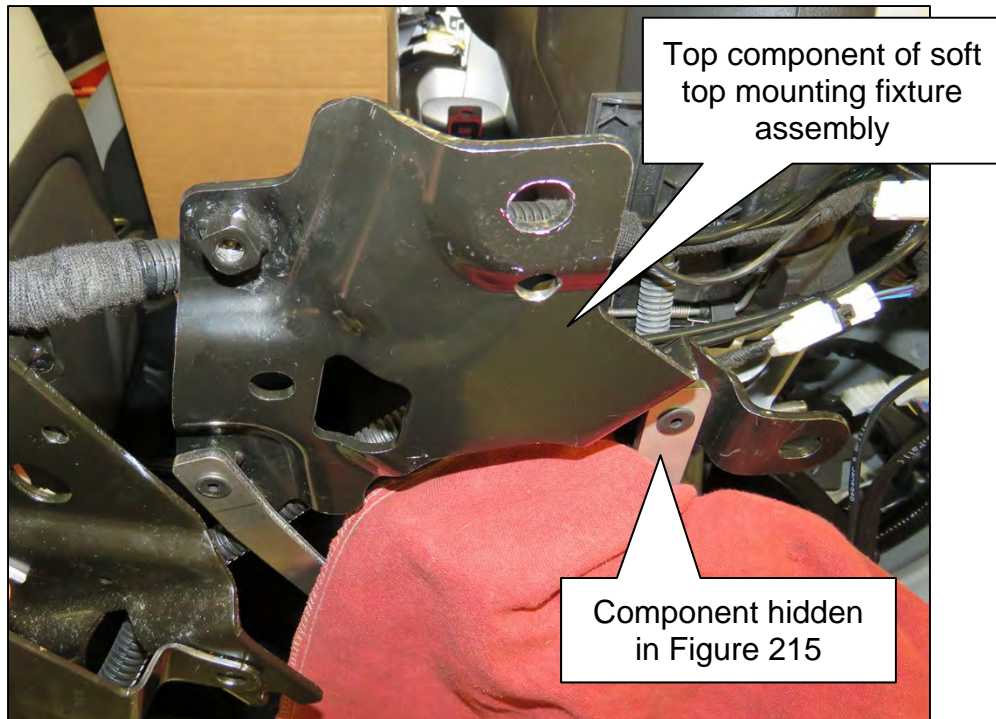


Figure 216

232. With help from a coworker, lift the Soft Top Assembly and carefully set it onto the soft top mounting fixture assembly, as shown in Figure 217. Also see Figure 218 on page 93.
233. While holding the Soft Top steady, install one (1) of the bolts from the kit on the driver side and one (1) bolt on the passenger side, where shown in Figure 217, to secure the Soft Top Linkage Assembly.



Figure 217

Figure 218 shows Soft Top mounted on soft top mounting fixture assembly.

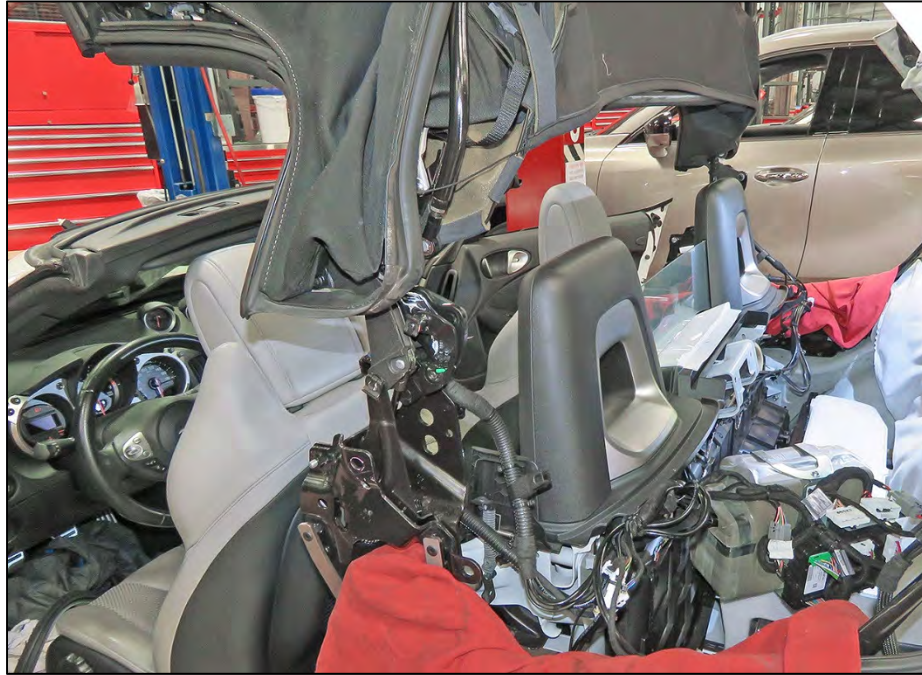


Figure 218

234. Add an additional box/spacer (or other appropriate object) to support the soft top.



Figure 219

Steps 235-264 will be first performed on the driver side, and then on the passenger side of the vehicle.

235. Detach the Rear Rail Weather-Strip from the Rear Rail and approximately 1-2 feet from the bottom edge of the 5th Bow.

HINT: It is not necessary to completely detach the Rear Rail Weather-Strip from the 5th Bow.



Figure 220

236. Remove the three (3) star screws that hold the Rear Rail Weather-Strip Outer Retainer LH and Rear Rail Weather-Strip Inner Retainer LH to the Rear Rail.

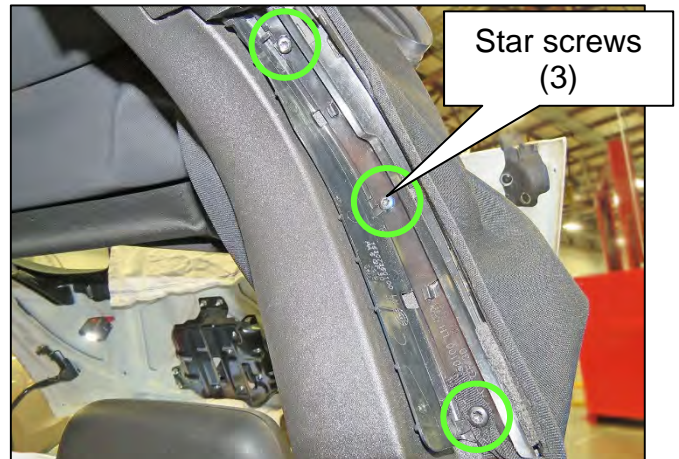


Figure 221

237. Detach the Rear Rail Weather-Strip Outer Retainer LH and Rear Rail Weather-Strip Inner Retainer LH from the Rear Rail.



Figure 222

238. Detach the Soft Top completely from the Rear Rail and approximately 12 inches from the 5th Bow (Figure 223).

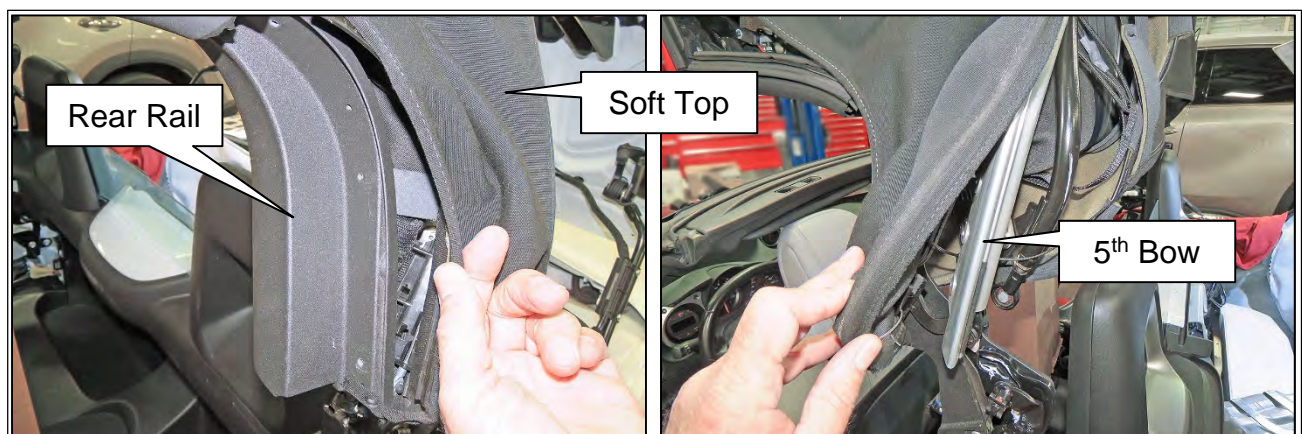


Figure 223

239. Remove the cable end E-clip and then detach the cable end from the base of the Rear Rail (Figure 225).



Figure 224

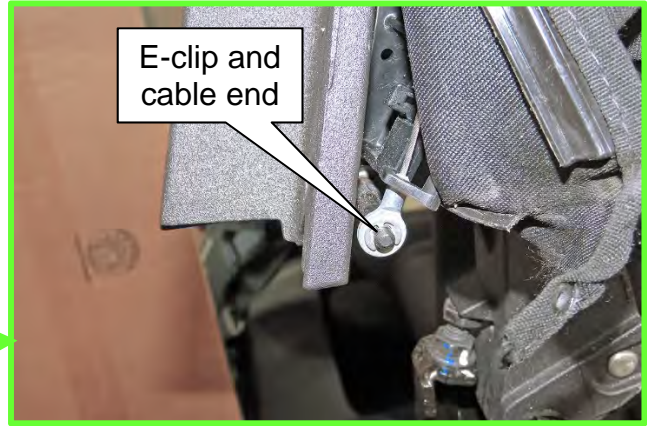


Figure 225

240. Route the cable end through the plastic Soft Top fitting as shown in Figure 226 and Figure 227.

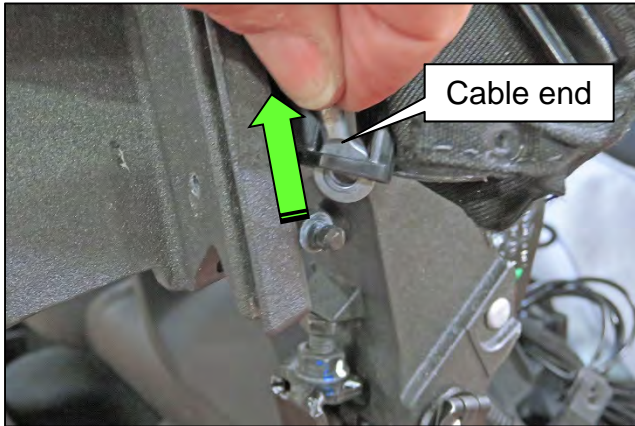


Figure 226



Figure 227

241. Unclip the Rear Rail Weather-Strip Retainer Clip and push it through the plastic Soft Top Linkage Assembly to remove (Figure 228).

- Figure 228 is shown with the Soft Top and Rear Rail Weather-Strip removed to provide an unobstructed view of the Rear Rail Weather-Strip Retainer Clip.

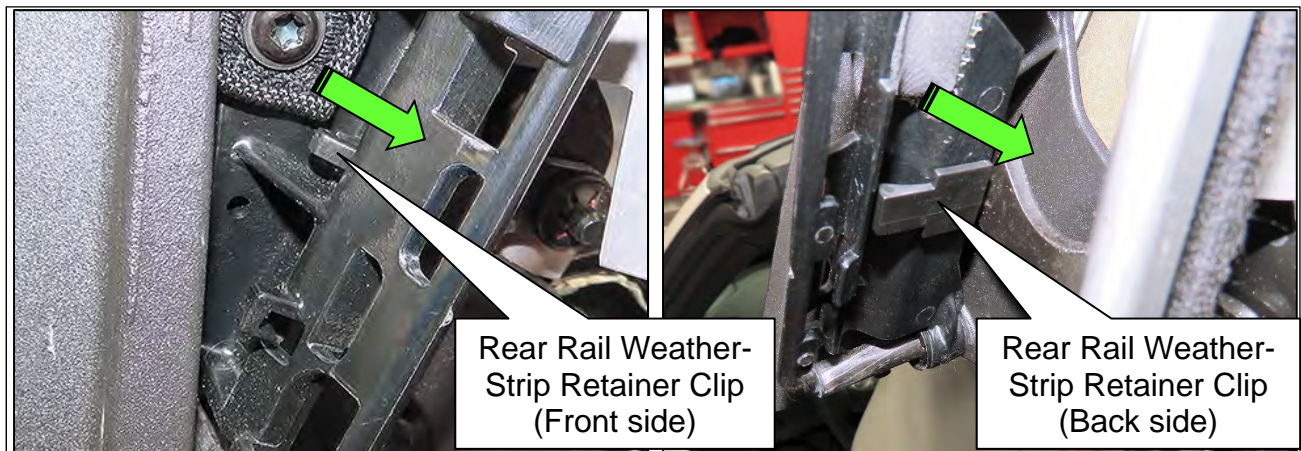


Figure 228

242. Detach the Soft Top from the Soft Top Linkage Assembly, and then fold the Soft Top up and out of the way.

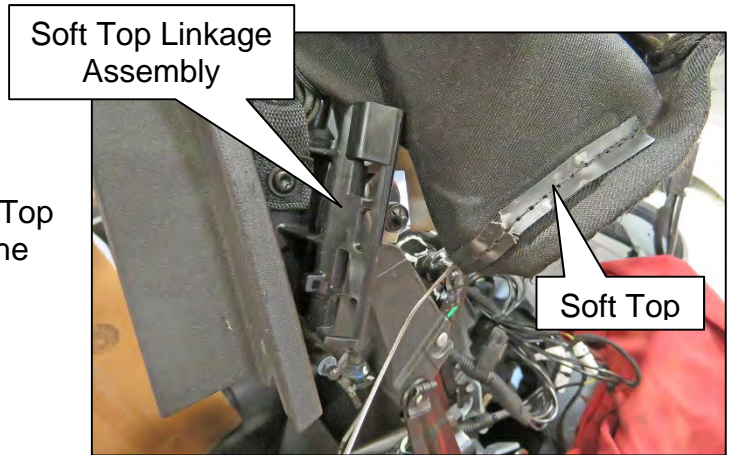


Figure 229

243. Detach the Center Rail Weather-Strip LH from the Center Rail Weather-Strip Retainer LH by sliding it forward.

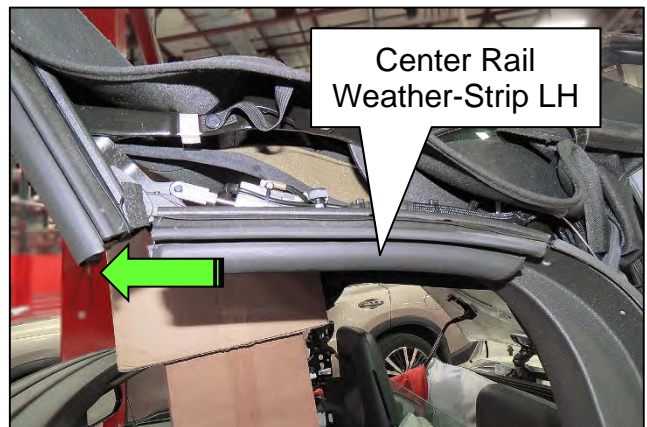


Figure 230

244. Remove three (3) star screws, and then detach the Center Rail Weather-Strip Retainer LH from the Soft Top Linkage Assembly.

HINT: Star screws are hidden under the lip of the seal and are accessed from the underside.

IMPORTANT: There are two different lengths of star screw. As they are removed, note where they came from.

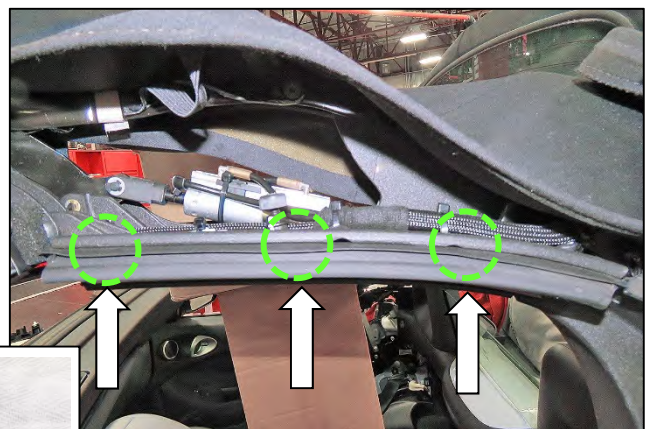


Figure 231



245. Remove one (1) star screw that retains the 5th Bow Bungee Cord (Figure 232).

246. Remove one (1) star screw that retains the Tension Cable and Tether (Figure 232).

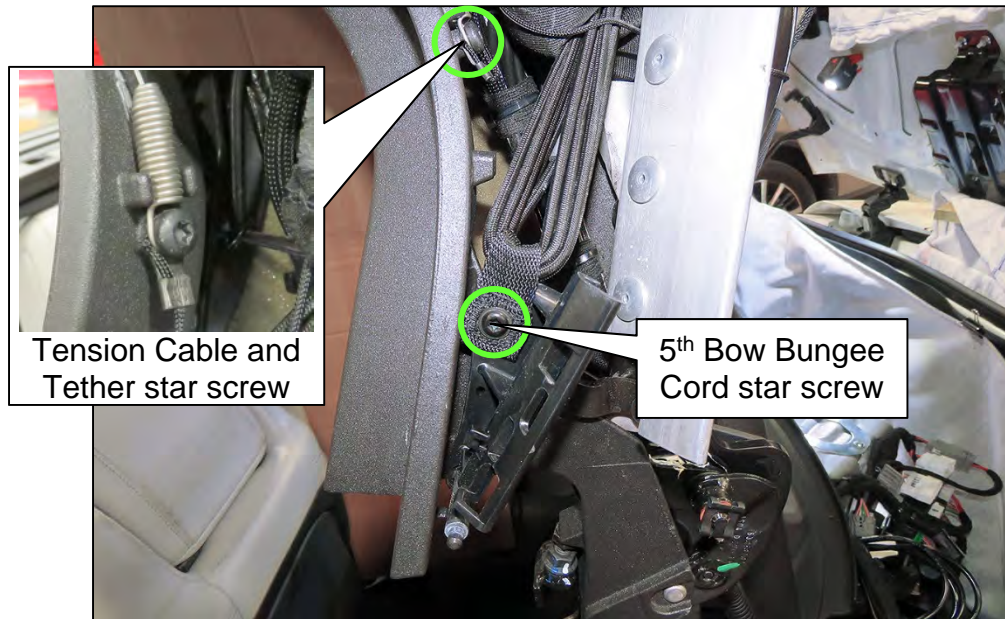


Figure 232

247. Remove the three (3) star screws that retain the Soft Top Cover Inner.

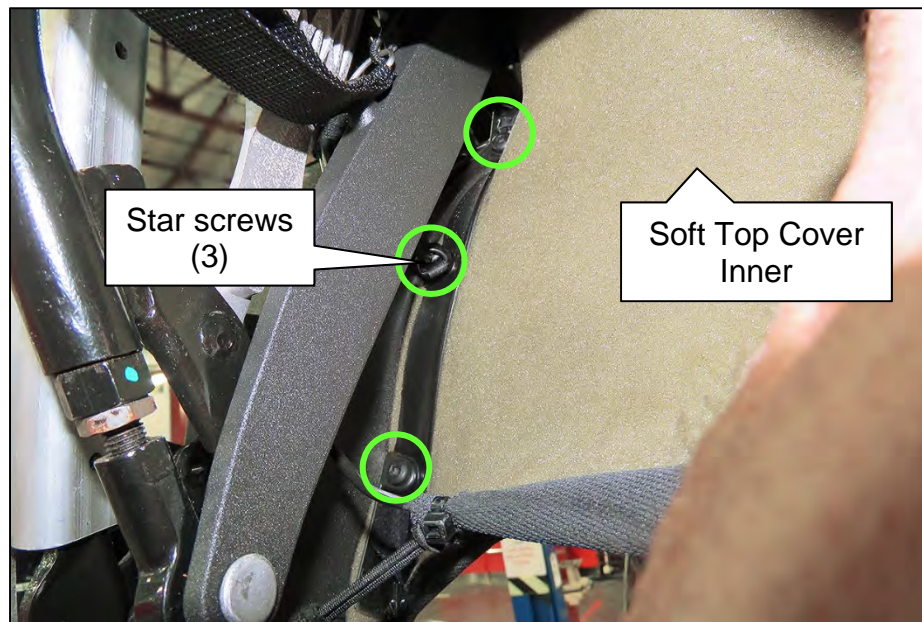


Figure 233

248. Remove two (2) spring clips (Figure 234).

- These spring clips will be reused.

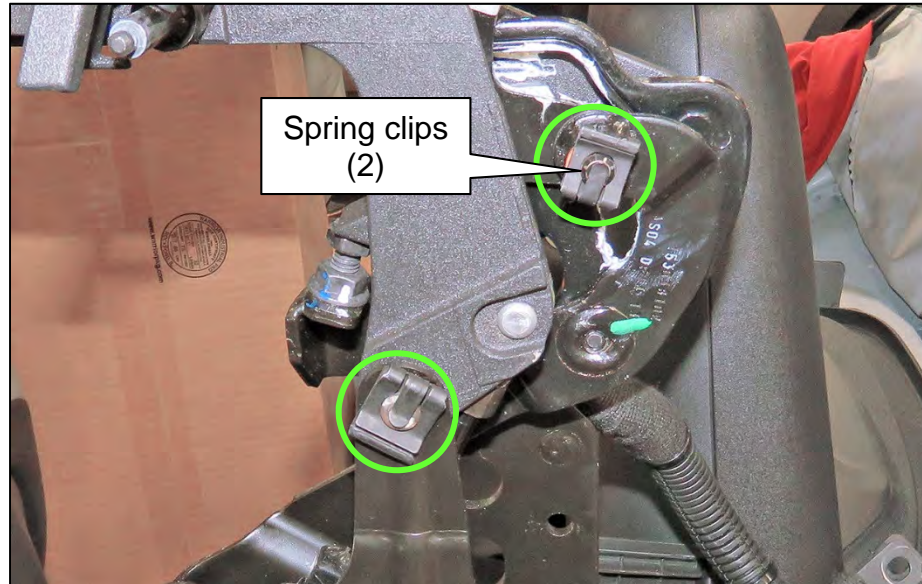


Figure 234

249. Remove two (2) push nuts and discard (Figure 235).

250. Remove one (1) spring clip (Figure 235).

- This spring clip will be reused.

251. Remove one (1) star screw (Hidden in Figure 235 behind harness).

- This star screw will be reused, but the plastic washer will be replaced.

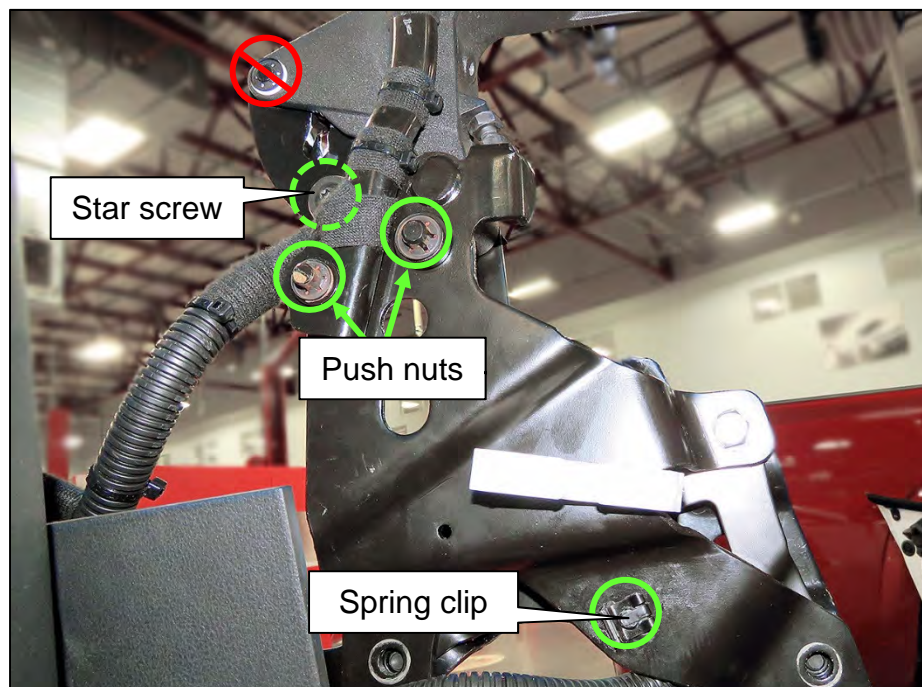


Figure 235

252. Remove the E-clip from the actuator eyelet pin, and then remove the actuator eyelet pin by sliding it out (Figure 236).

- E-clip hidden in Figure 236.

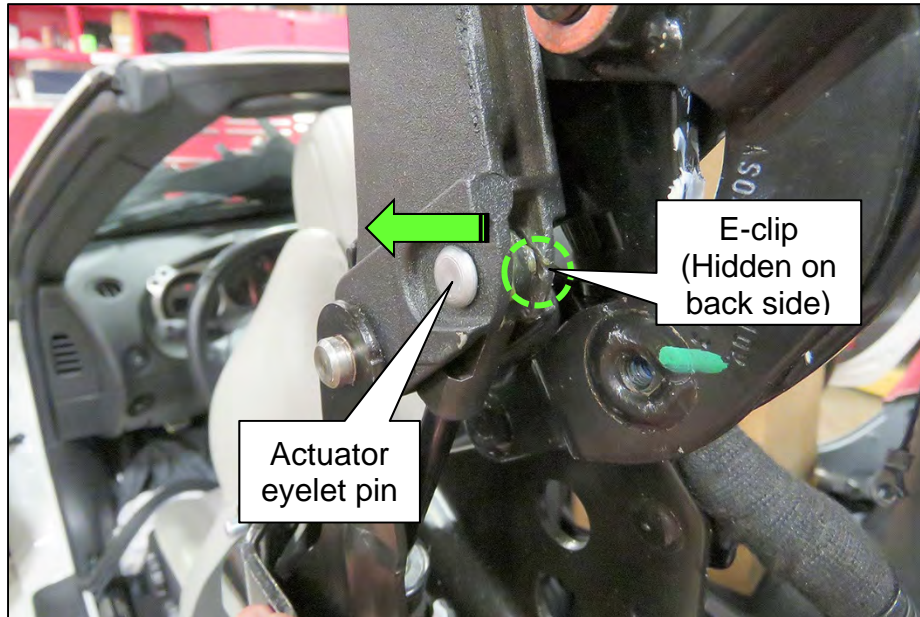


Figure 236

253. Temporarily remove the soft top mounting fixture assembly bolt installed in step 223 on page 88 (Figure 237).



Figure 237

254. Slide the actuator assembly off of the Rear Rail pivot pin (Figure 238).

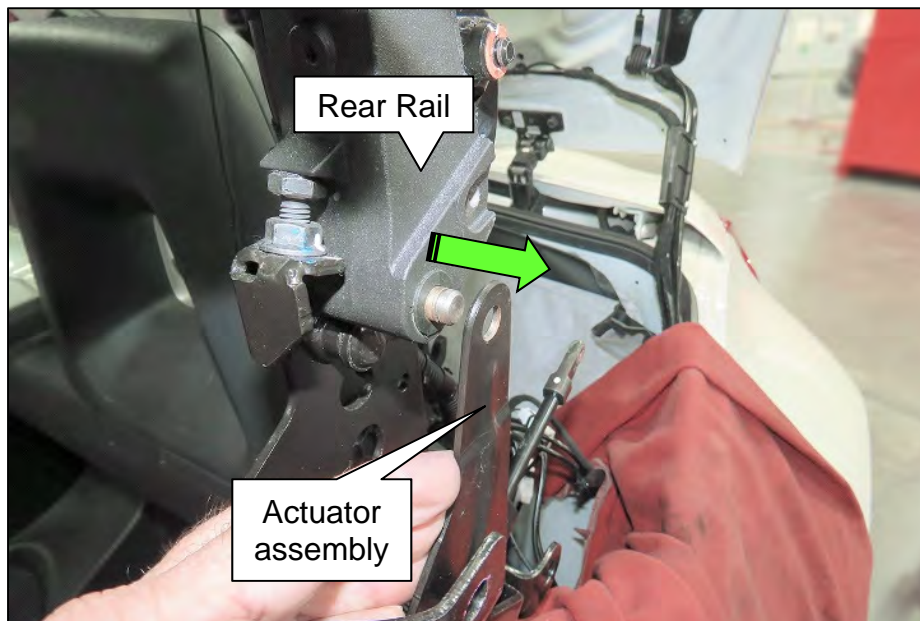


Figure 238

255. Rotate the actuator assembly toward the rear of the vehicle until it is clear of the Rear Rail pivot pin (Figure 239).

256. Reinstall the Soft Top mounting fixture assembly bolt removed in step 253 (Figure 239).

HINT: This will allow the Rear Rail to slide off its pivot pin later in the **SERVICE PROCEDURE**.

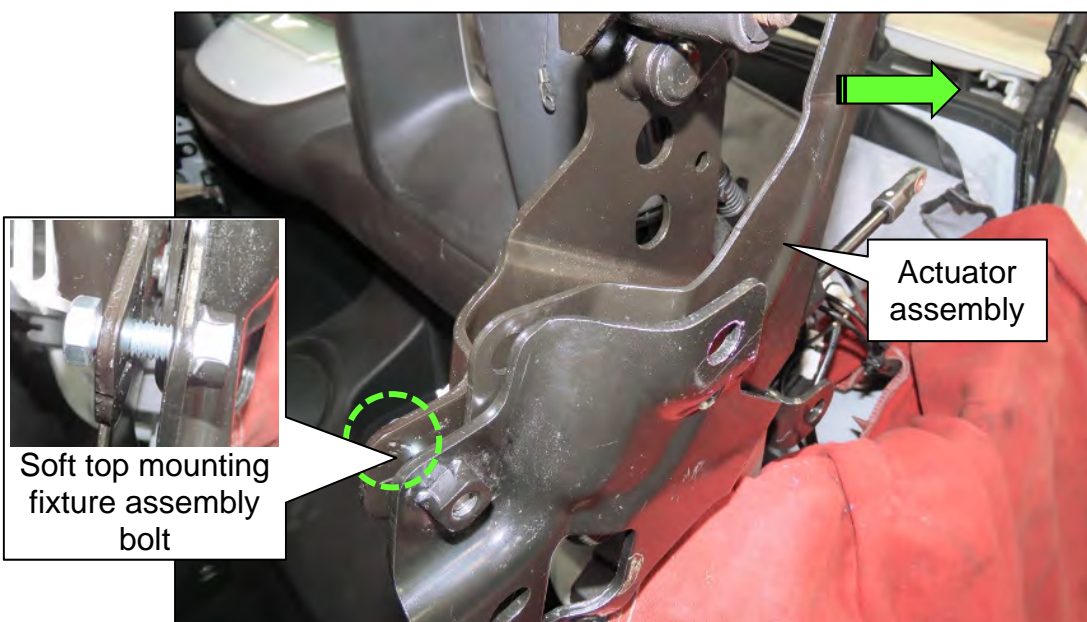


Figure 239

257. Shift the Soft Top support box/spacer (or other appropriate object) to the side of the Soft Top that is being worked on.

HINT: This will support the Soft Top when the Rear Rail is removed.

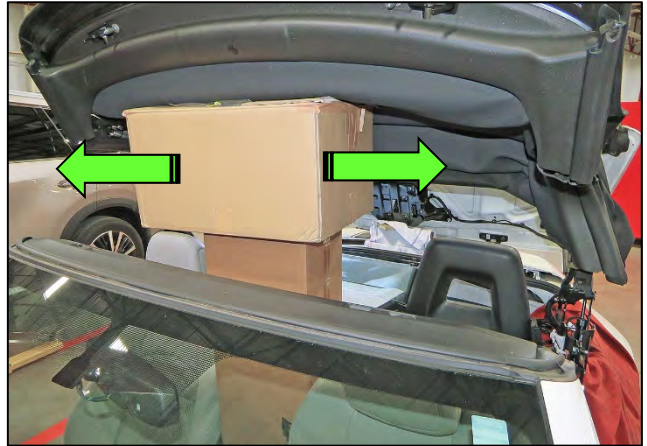


Figure 240

258. Disconnect the drag link from its pivot pin.

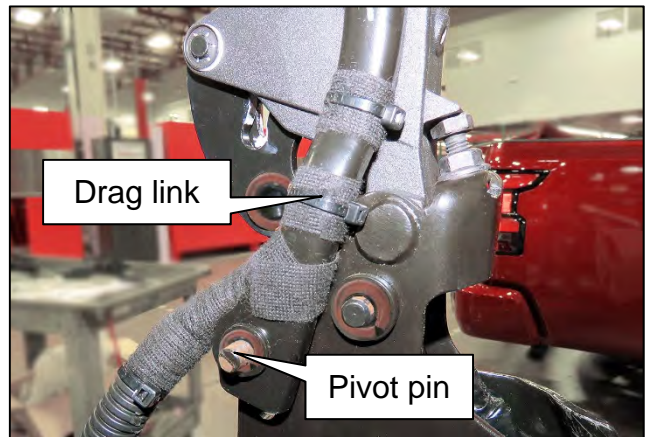


Figure 241

259. Remove the E-clip from the Soft Top Linkage Assembly to Rear Rail pivot pin (pivot pin), where shown in Figure 242.

- E-clip hidden in Figure 242.
- E-clip accessed from inside the vehicle.

260. Slide the pivot pin out approximately 11 mm with an appropriate tool, but do not completely remove.

HINT: This will help keep the rest of the linkage components in line.

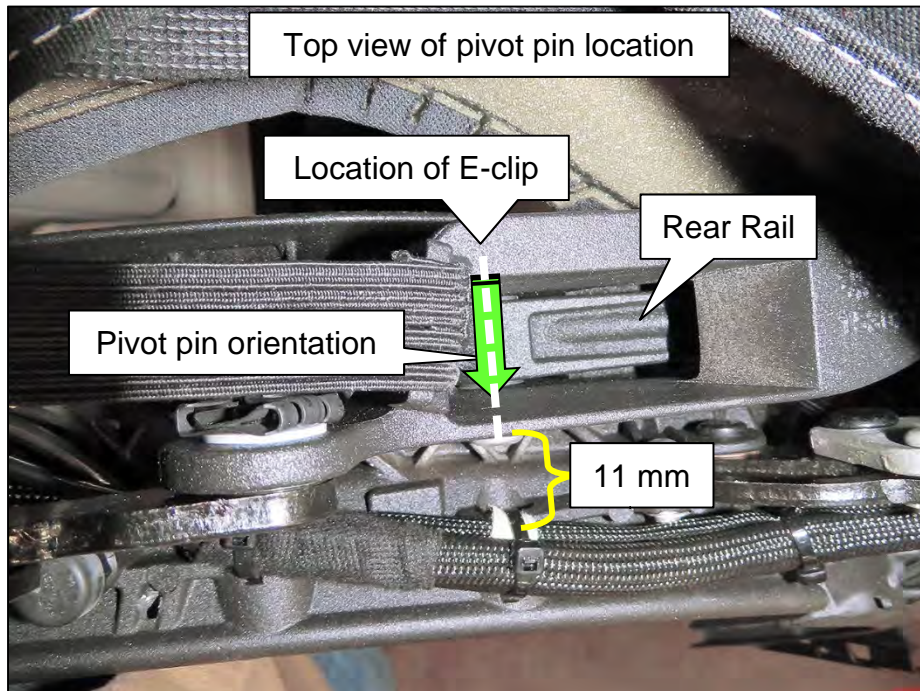


Figure 242

Additional images of pivot pin.

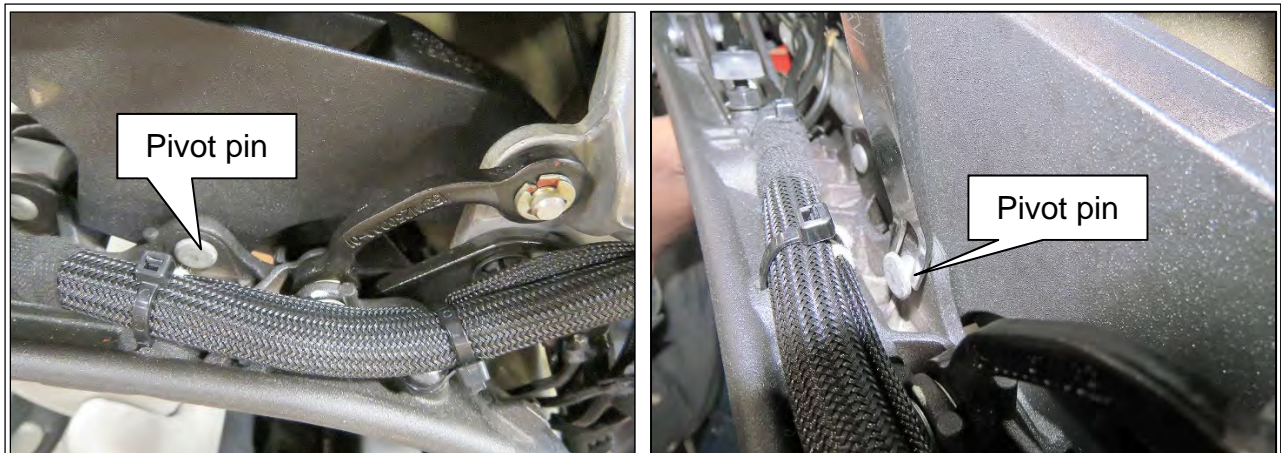


Figure 243

261. Remove the 5th Bow control linkage (Figure 244 and Figure 245).

- Slides off of two (2) pivot pins and one (1) cam pin.

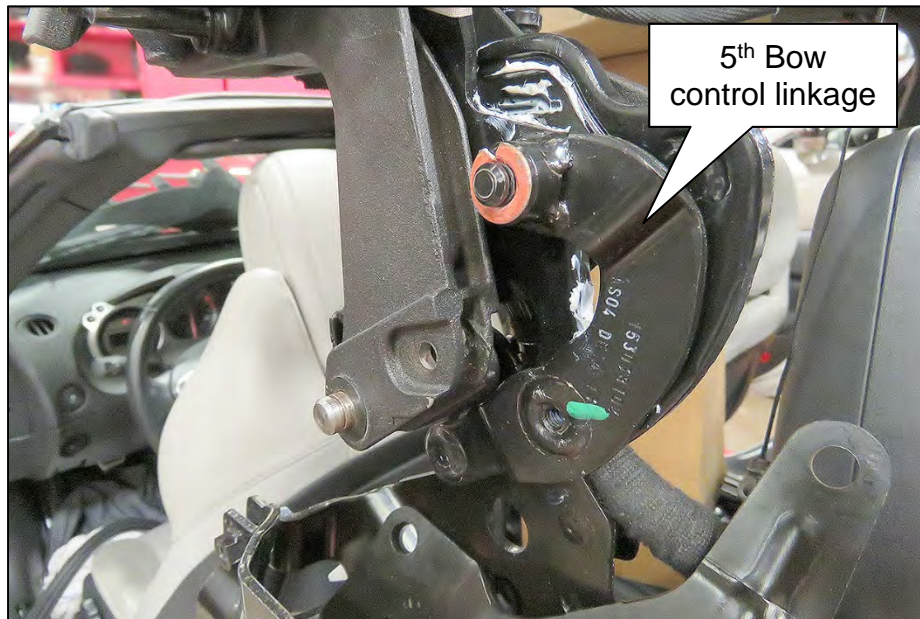


Figure 244

- Figure 245 is a side view, as 5th Bow linkage is being removed.

IMPORTANT: Retain the thrust washer shown in Figure 245, it will be reused.

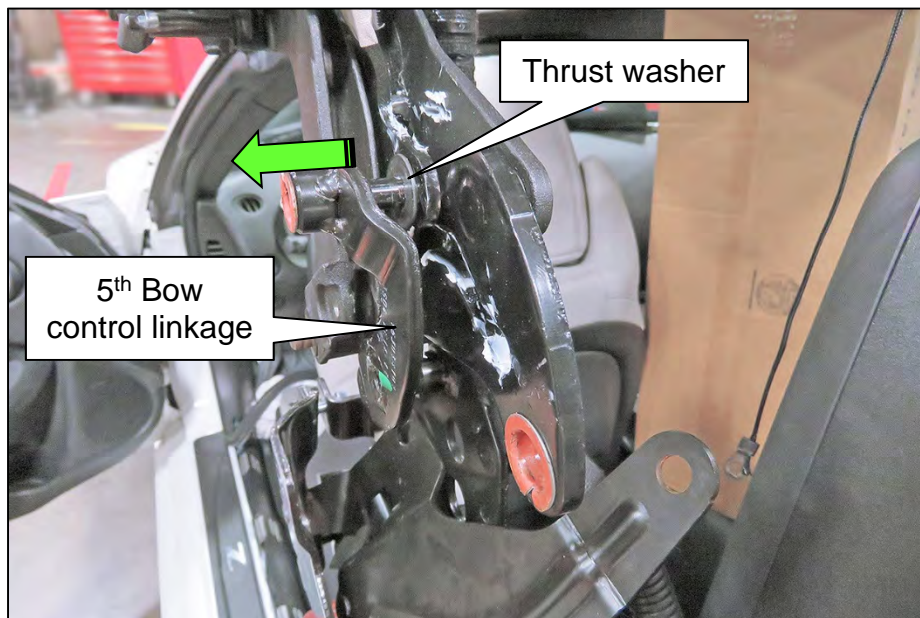


Figure 245

262. Detach the 5th Bow linkage from the remaining Rear Rail linkage (Figure 246).

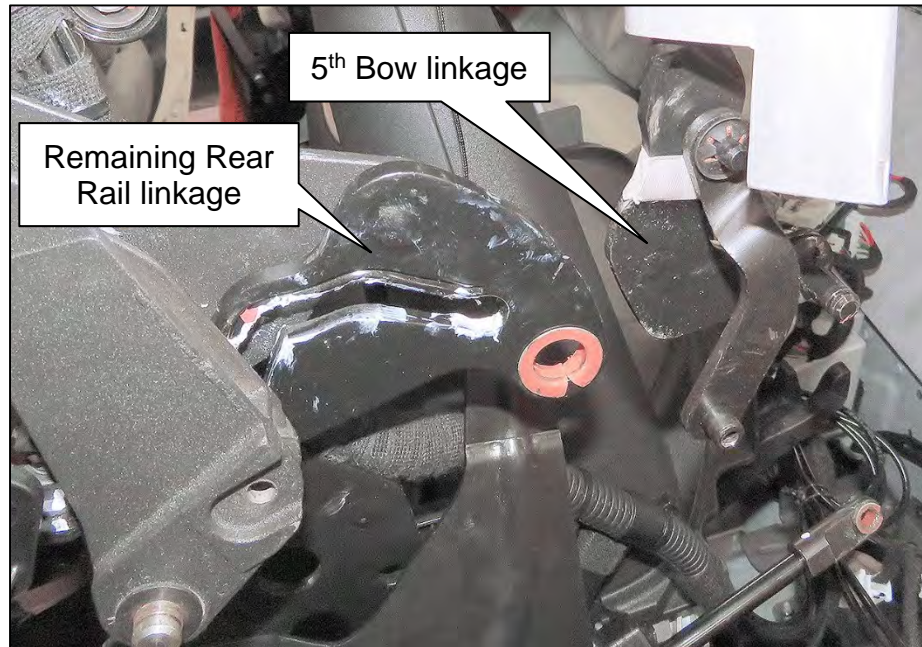


Figure 246

263. While supporting the Soft Top Linkage Assembly, where shown in Figure 247, gently pull the linkage assembly toward the front of the vehicle, and then slide the Rear Rail off of its pivot pin.

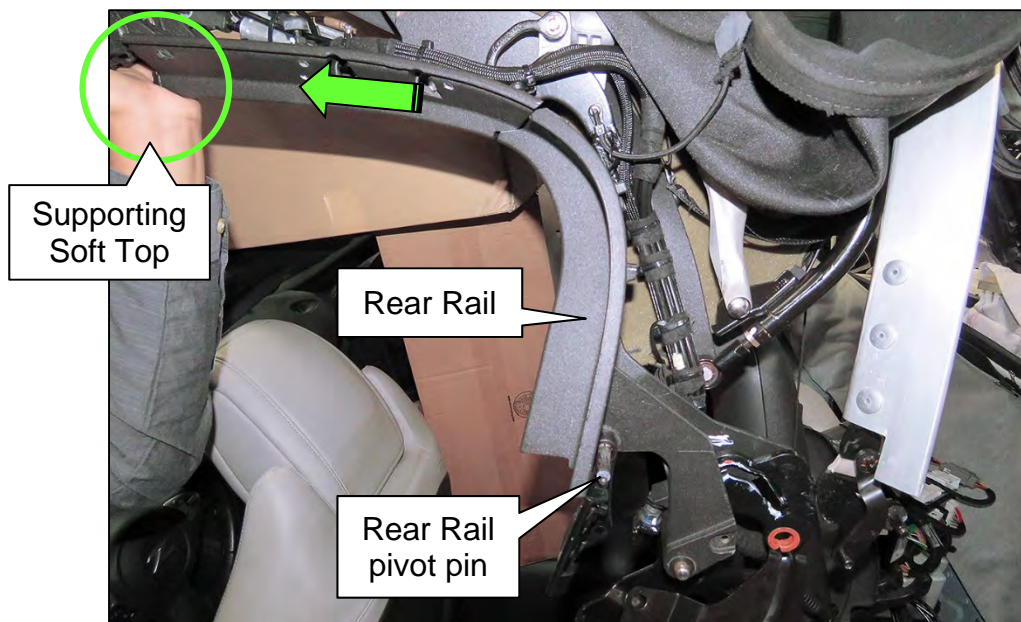


Figure 247

264. Install the new Rear Rail onto the Rear Rail pivot pin and Soft Top Linkage Assembly.

- See the **PARTS INFORMATION** for new Rear Rail. Part of RAIL KIT - FOLDING ROOF.

265. Reassemble the Soft Top linkages on the driver side of the vehicle in the reverse order of disassembly (steps 235-264), and then proceed to step 266.

- Reference the passenger side of the vehicle for assembly.
- Torque all Rear Rail star screws to 3 N•m (0.3 kg-m, **26.6 in-lb**)

NOTICE

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

266. Perform steps 235-264 starting on page 93 on the passenger side of the vehicle, and then proceed to step 267.

- Reference the driver side of the vehicle for assembly.
- Torque all Rear Rail star screws to 3 N•m (0.3 kg-m, **26.6 in-lb**)

NOTICE

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

267. Remove the Soft Top mounting fixtures and reassemble the Soft Top to the vehicle by performing steps 226-233 starting on page 89 in the reverse order.

- Replace the zip ties removed in step 227 on page 90.

268. Reassemble the remaining components of the vehicle in the reverse order of disassembly.

269. Operate the Soft Top and confirm that it operates correctly and is properly adjusted.

- For adjustments, refer to the ESM: **REPAIR > BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY > ROOF > REMOVAL AND INSTALLATION > SOFT TOP ASSEMBLY**

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
BUNGEE KIT - 5TH BOW (1)	971F6-1ET2A	1 If needed
RAIL KIT - FOLDING ROOF, RR RH	971H3-1ET0A	1 If needed
RAIL KIT - FOLDING ROOF, RR LH	971H5-1ET0A	1 If needed
Window Regulator Grease	999MP-WRG00P	As needed

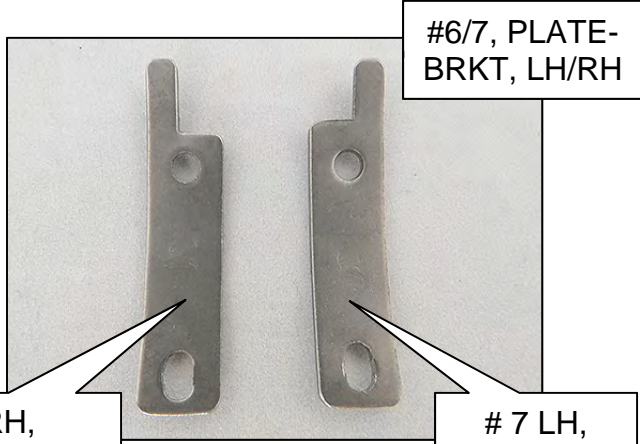
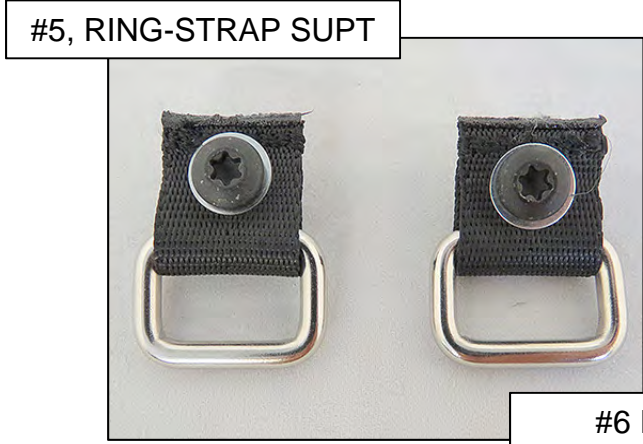
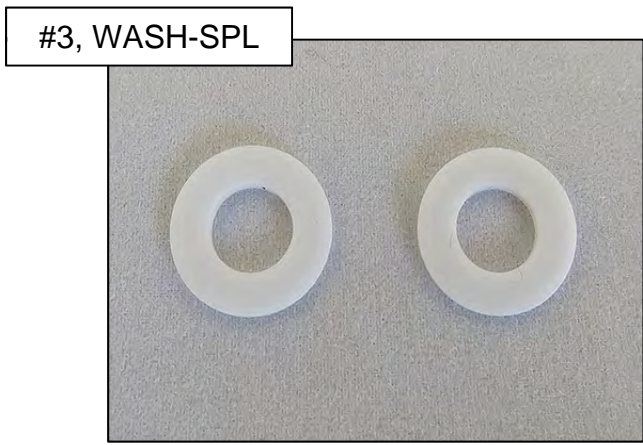
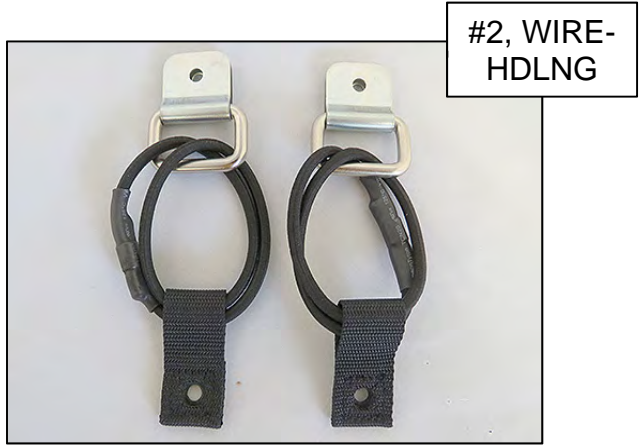
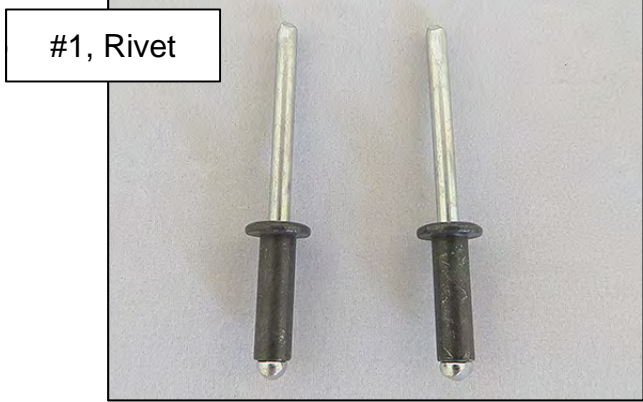
- (1) Parts from BUNGEE KIT-5TH BOW are pictured on the following pages in order of use in **SERVICE PROCEDURE**.

TOOLS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
SOFT TOP MOUNTING FIXTURES (1)		
MTG KIT – FOLDING ROOF RH (2)	97148-1ET0A	1
MTG KIT – FOLDING ROOF LH (2)	97149-1ET0A	1
BRKT ASSY – FOLDING ROOF MGT, RH (2)	971C0-1ET0A	1
BRKT ASSY – FOLDING ROOF MGT, LH (2)	971C1-1ET0A	1

- (1) If you already have the soft top mounting fixtures, you do not need to reorder them.
(2) Required for replacement of the soft top rear rails.

Contents of BUNGEE KIT-5TH BOW



#6 RH, Passenger side

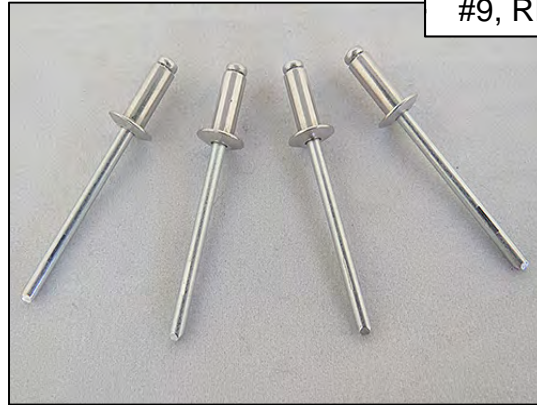
#7 LH, Driver side

Contents of BUNGEE KIT-5TH BOW (continued)

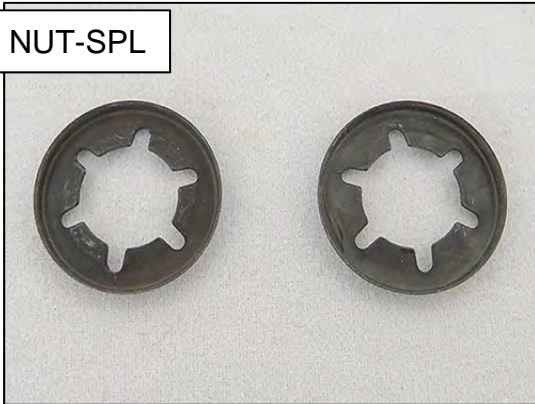
#8, CABLE-TETHER



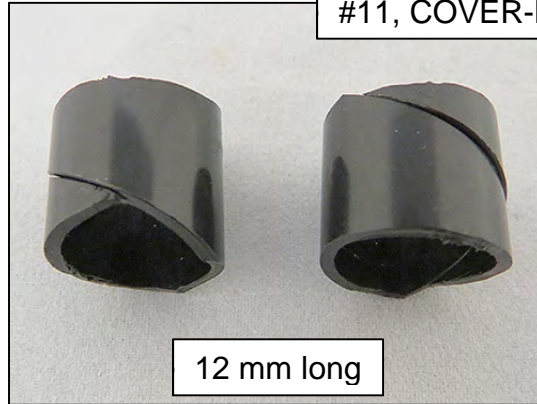
#9, RIVET



#10, NUT-SPL

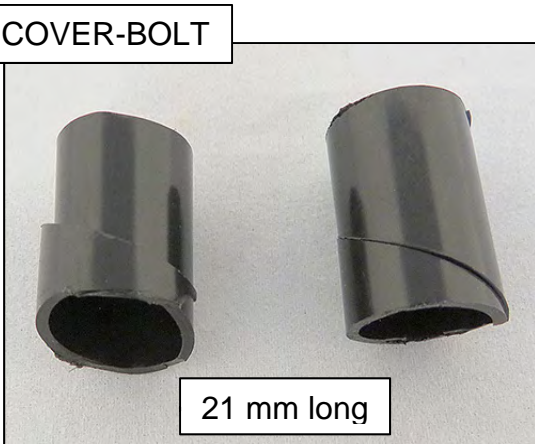


#11, COVER-BOLT



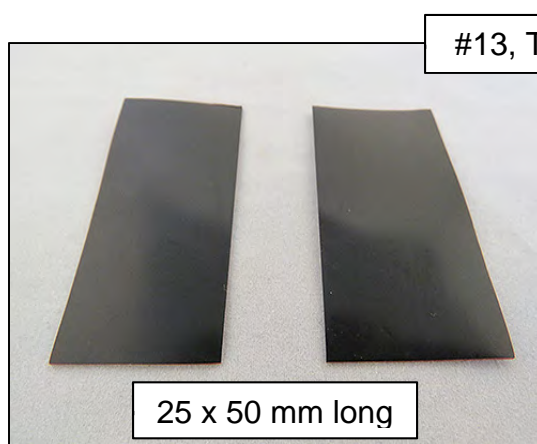
12 mm long

#12, COVER-BOLT



21 mm long

#13, TAPE



25 x 50 mm long

#14, FELT TAPE



160 mm long

Contents of BUNGEE KIT-5TH BOW (continued)

#15, BOLT-SPL



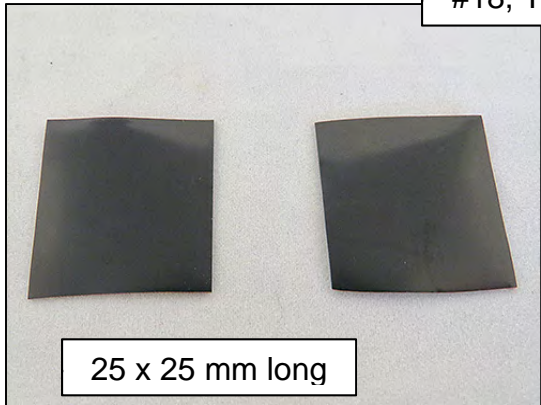
#16, NUT-SPL



#17, BAND



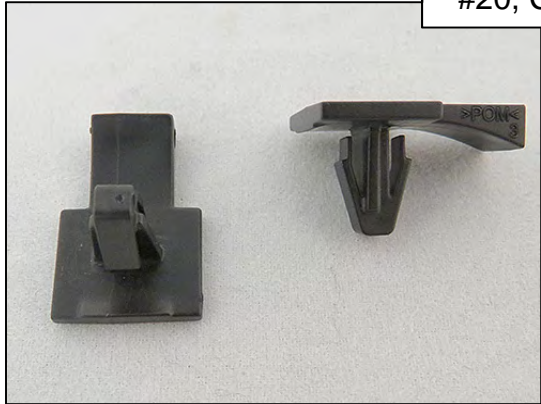
#18, TAPE



#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 5 th Bow Bungee Only	(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).

OR

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Repair 5 th Bow Bungee and Replace Rear Rail	(1)	BX7XAA	ZE	32	7.3

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

OR

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

DESCRIPTION	PFP	OP CODE	SYM	DIA	FRT
Replace Rear Rail Only	(1)	BX7YAA	ZE	32	6.1

- (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
September 14, 2022	NTB19-061A	Updated to include 2020 model year, add Rear Rail replacement SERVICE PROCEDURE and create three separate repair procedures