



SERVICE BULLETIN

Release Date: February 25, 2021

Communication #: I-21-01

Expiration Date: February 25, 2022

IND

Model Year(s): 2020-2021

— Confidential and Proprietary —

VERSION: R01 (February 25, 2021)

IMPORTANT

If you are working with a printed copy, please verify you have the most current version of this document.

SUBJECT: CHALLENGER HAND CONTROLS WIRING HARNESS

PURPOSE

Indian Motorcycle recently found that some 2020-2021 Challenger models could have an improperly routed hand controls wiring harness. In some instances, the harness may not be routed correctly which could possibly lead to harness damage if uncorrected.

Indian Motorcycle has released this procedure to inspect the harness, correct the routing, and replace the hand controls harness as needed.

Refer to the inspection and repair procedure for detailed information.

AFFECTED MODELS

MODEL YEAR	MODELS	VEHICLE IDENTIFICATION NUMBER RANGE
2020-2021	Challenger	Reference Unit Inquiry on the dealer website or the Service Communications list on the STOP site to lookup affected VINs.

CUSTOMER NOTIFICATION

Dealers are required to review their sales records and make arrangements with customers for Bulletin completion. In addition to consumer units, dealers are required to correct any affected units in their inventory. Polaris will NOT be mailing a notification letter to consumers affected by this Bulletin.

WARRANTY CLAIM INFORMATION

Bulletin parts are excluded from the standard RMA policy and cannot be returned. An Initial Recommended Order Quantity has not been provided for this bulletin. Use Quantity Ordered to Date and the Open VIN List from the STOP site to determine an order amount that's right for your dealership. For more details, refer to University of Polaris training course "Polaris Item Availability and Daily Ordering" and click on "Bulletin Ordering Training".

2020–2021 CHALLENGER (HAND CONTROLS HARNESS INSPECTION)	
Bulletin #	I-21-01-A
Claim Type	SB (Service Bulletin)
Labor Allowance	0.7 hours (42 minutes)
Part Number / Description	7082510 (QTY 1) Cable Tie with Clip
Parts Availability	Available to order
University of Polaris Video Training Required	NO

Claim Submission:

- **US / Canada Dealers:** On DEX, go to Service and Warranty > Warranty Claim and Extended Coverage > Start a New Warranty Claim. Select Service Bulletin > Enter the VIN and Retrieve Registration. Select I-21-01-A and Send Claim.
- **International Dealers:** On iDEX, go to Service and Warranty> Warranty Claims>Start a New Warranty Claim. Select Service Bulletin> Enter the VIN and Retrieve Registration. Select I-21-01-A and Send Claim

2020–2021 CHALLENGER (HAND CONTROLS HARNESS REPLACEMENT)	
Bulletin #	I-21-01-B
Claim Type	SB (Service Bulletin)
Labor Allowance	2.0 hours (120 minutes)
Part Number / Description	7082510 (QTY 1) Cable Tie with Clip 2414193 (QTY 1) Handlebar Harness - 2020 Challenger 2415694 (QTY 1) Handlebar Harness - 2021 Challenger
Parts Availability	Available to order
University of Polaris Video Training Required	NO

Claim Submission:

- **US / Canada Dealers:** On DEX, go to Service and Warranty > Warranty Claim and Extended Coverage > Start a New Warranty Claim. Select Service Bulletin > Enter the VIN and Retrieve Registration. Select I-21-01-B and Send Claim.
- **International Dealers:** On iDEX, go to Service and Warranty> Warranty Claims>Start a New Warranty Claim. Select Service Bulletin> Enter the VIN and Retrieve Registration. Select I-21-01-B and Send Claim

BULLETIN CONTACT LIST & SCHEDULING TOOL

A scheduling tool is available for dealers to keep a record of customers contacted and scheduled for this bulletin. This optional tool provides visibility for your dealership and will be helpful to track the status of scheduled service. For more information, log in to <http://www.universityofpolaris.com>.

COVERAGE PERIOD

Coverage will begin on February 25, 2021. Coverage will expire on February 25, 2022.

FEEDBACK FORM

A feedback form has been created for the technician to provide Polaris with an overall satisfaction rating for the instructions, provide comments on your experience or upload pictures/video. This feedback form is viewable on a mobile device by scanning the QR code or by clicking **HERE** if viewing this document electronically.



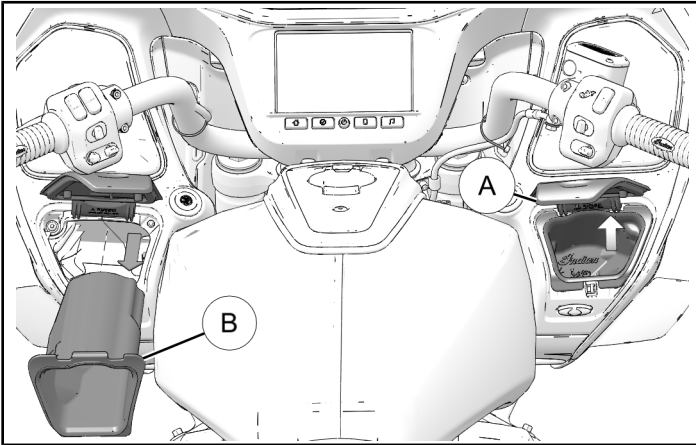
I-20-01-A HARNESS INSPECTION

TOOLS REQUIRED

- 4mm, 6mm Hex
- Body Panel Removal Tool: 5456907 (or equivalent)
- Wire Cutter
- Torque Wrench

OUTER FAIRING REMOVAL

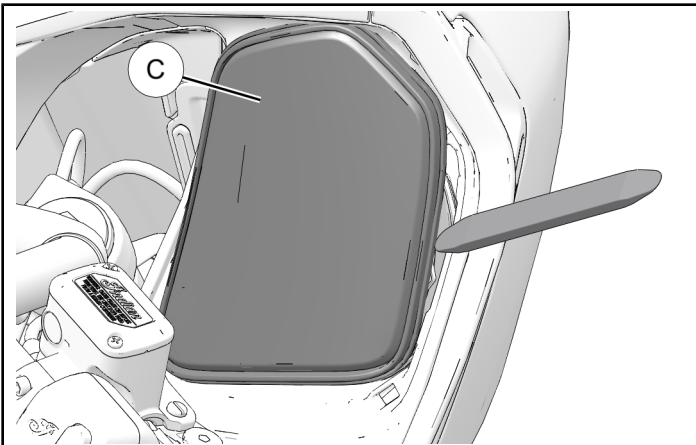
1. Open storage doors **A** and pull out storage liners **B**. Set liners aside.



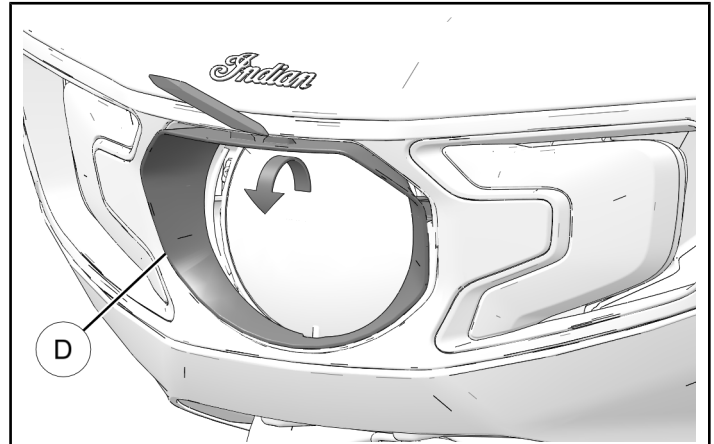
2. Carefully pry along edge with non-marring pry tool to disengage speaker grill assemblies **C**.

NOTICE

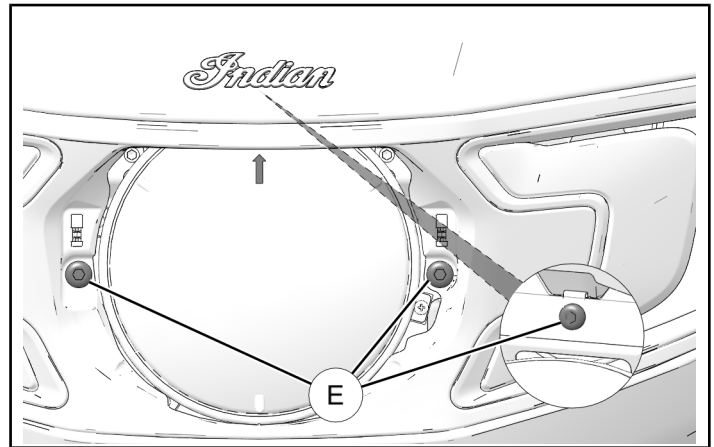
Use Special Tool:
Non-marring Pry Tool, P/N 5456907 (or equivalent)



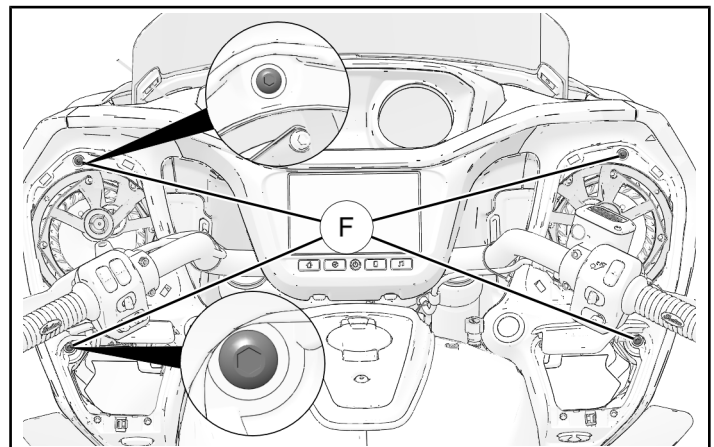
3. Gently pry along top edge of headlight bezel **D** with non-marring pry tool. Pull headlight bezel **D** down and out. Carefully set aside.



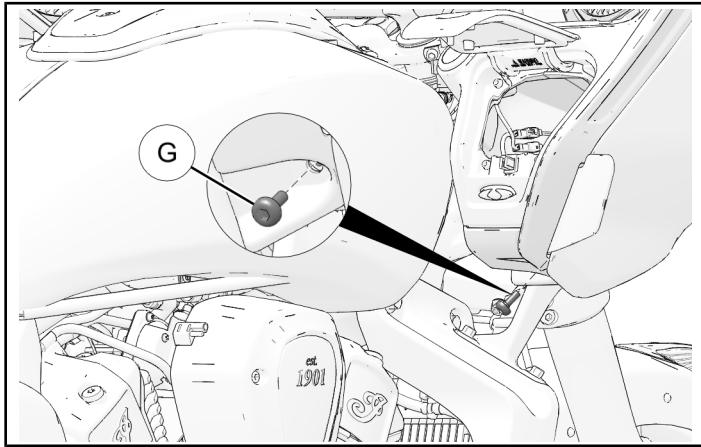
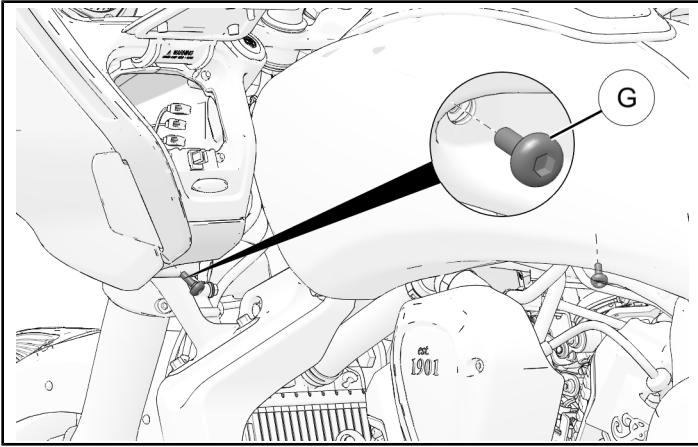
4. Remove and keep three screws **E** from around headlight bezel as shown.



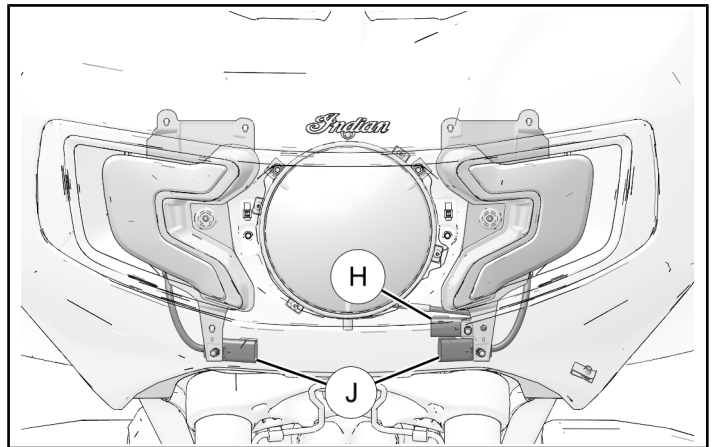
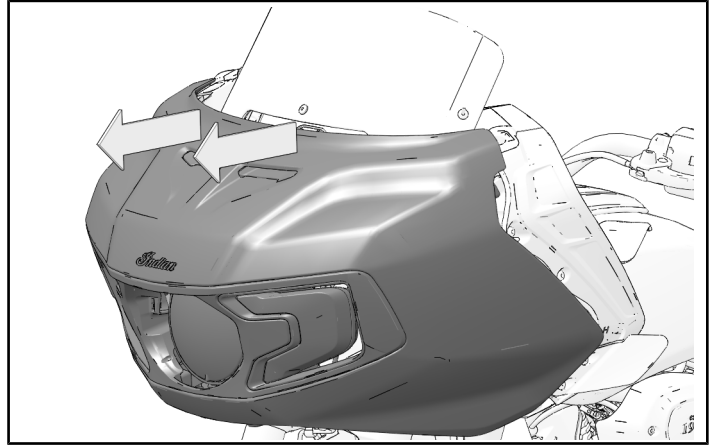
5. Remove and keep two screws **F** from top outer corner of storage openings and two screws **F** from top center of speaker openings.



6. Remove one screw ⑥ from under edge of each side of fairing as shown.



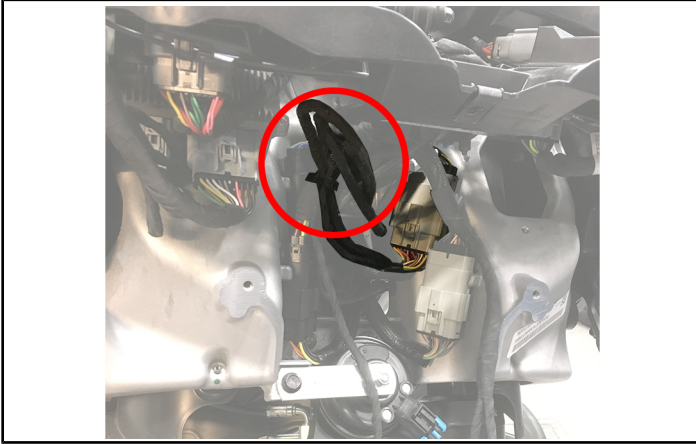
7. Pull fairing outward at top to disengage. Pull fairing out a short distance and disconnect connectors for headlight ⑧ and turn signals ⑨.



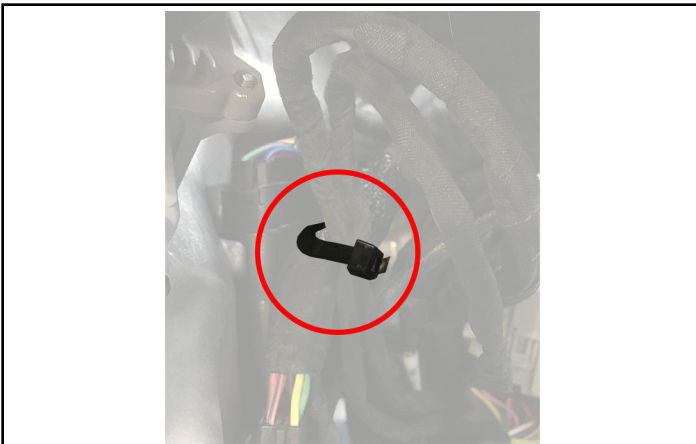
8. Carefully pull outer fairing off motorcycle and set aside.

HARNESS INSPECTION

1. From the front of the motorcycle, locate the hand control harness in the fairing.



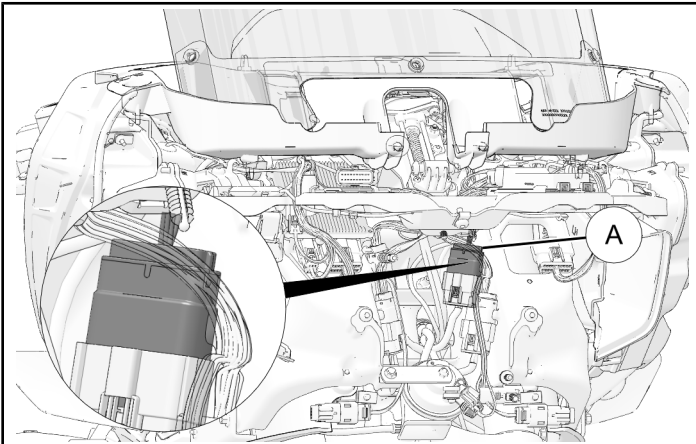
2. Cut the harness cable tie securing the extra harness length.



IMPORTANT

Be careful not to cut any electrical wires when removing cable ties.

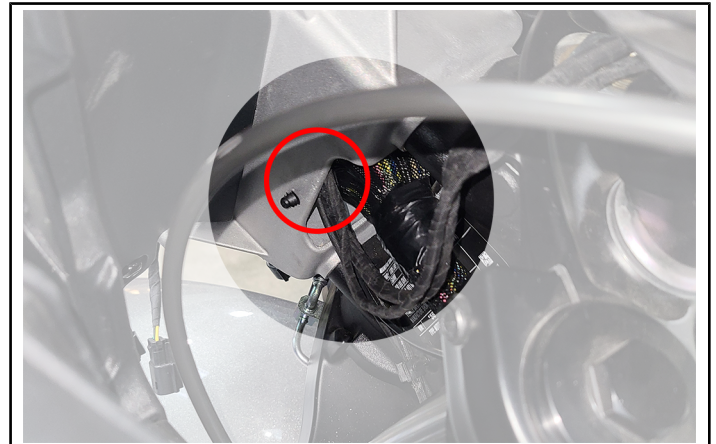
3. Unplug handlebar connector (A).



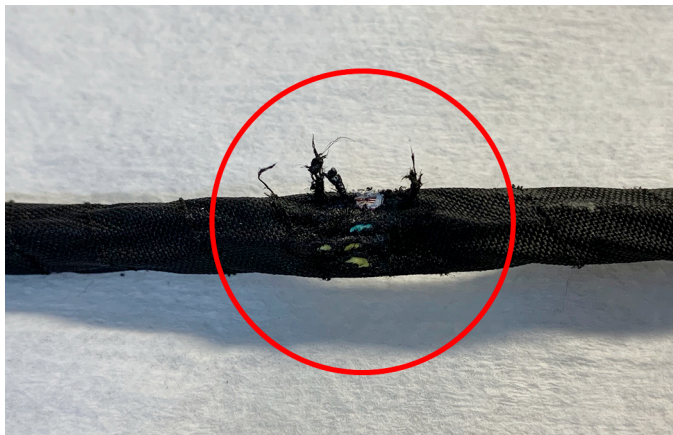
4. Remove the handlebar harness connector from the retaining clip securing it to the fairing casting.



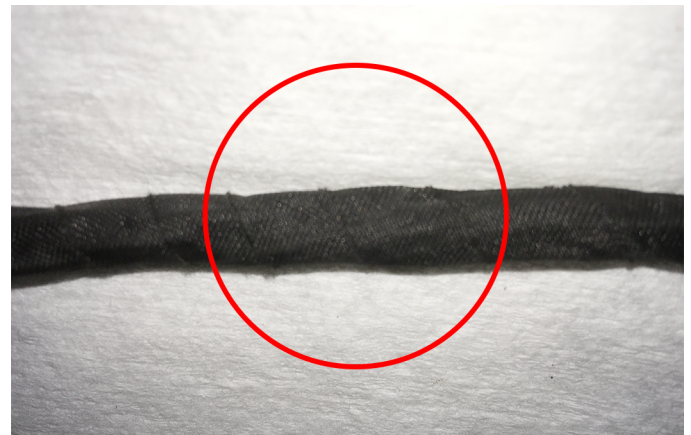
5. Inspect the handlebar harness from the front and rear of the fairing for harness damage or chaffing or exposed wires along the harness in location as shown.



**HARNESS DAMAGED AND MUST BE REPLACED,
INSTALL EDGE CLIP**



**NO DAMAGE FOUND TO HARNESS,
INSTALL EDGE CLIP**



STOP!

- If damage to the handlebar harness **IS NOT** found, continue with edge clip installation.
- If damage to the handlebar harness is found, proceed to harness replacement, found in part B of this bulletin.

EDGE CLIP INSTALLATION

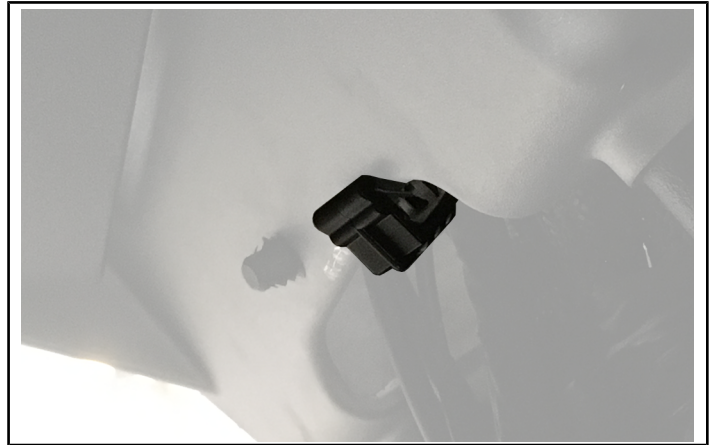
1. Verify handlebar harness triple clamp cable tie is present as shown.



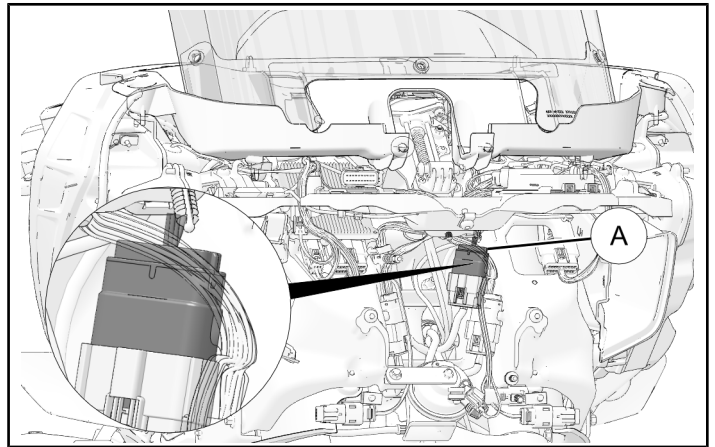
2. While holding the harness straight out from the motorcycle, measure the harness 3 in (7.6 cm) from the rear of the casting for accurate placement of the edge clip. At the measured location, install the edge clip to the harness so that the opening faces the front of the motorcycle.



3. Install the harness edge clip to the casting as shown.



4. Route handlebar wiring through fairing in original routing. Plug in handlebar connector (A). Attach the connector to the retaining clip



IMPORTANT

Listen for audible "click" when pressing into place. Pull gently on quick connector once seated to ensure a proper connection has been made.

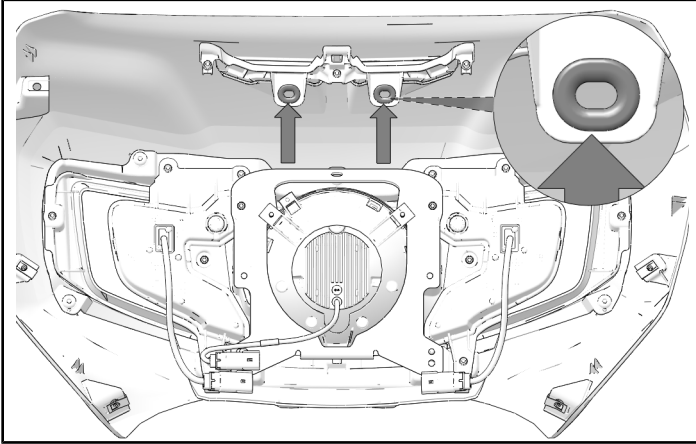
5. Replace the removed cable tie, securing the any extra handle bar harness length in the fairing.



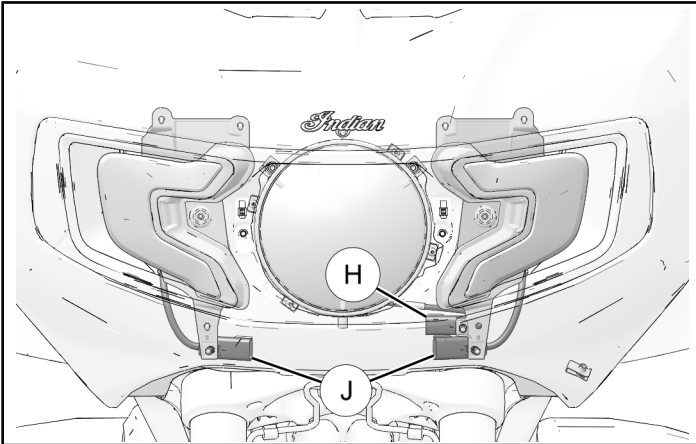
6. Turn handlebar left and right, lock-to-lock, while observing the harness for any tension or pulling of the clip from the casting. Determine if any resistance from wire binding. If resistance is felt or wire interference is found, verify clip position in step 2. Check clearances between hand controls and fuel tank. Adjust height if necessary.

OUTER FAIRING INSTALLATION

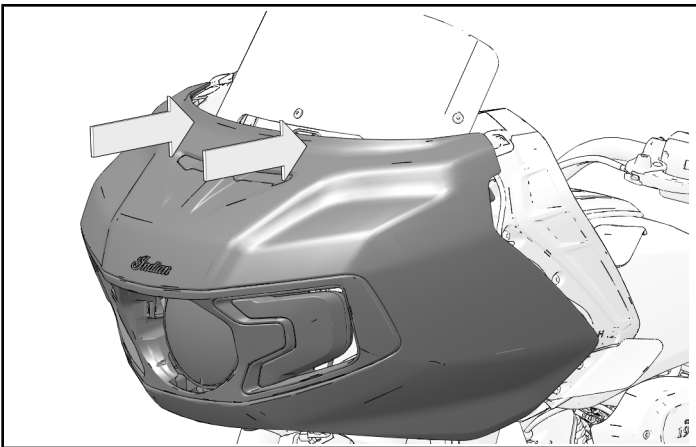
1. Lubricate two grommets with soapy water on inside of fairing.



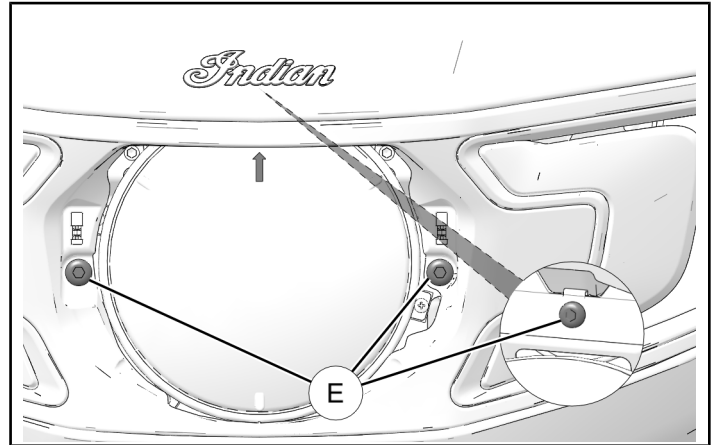
2. Set outer fairing in place and connect turn signal **I** and headlight **H** wire connectors.



3. Press fairing into place and at top edge to engage locating pins.

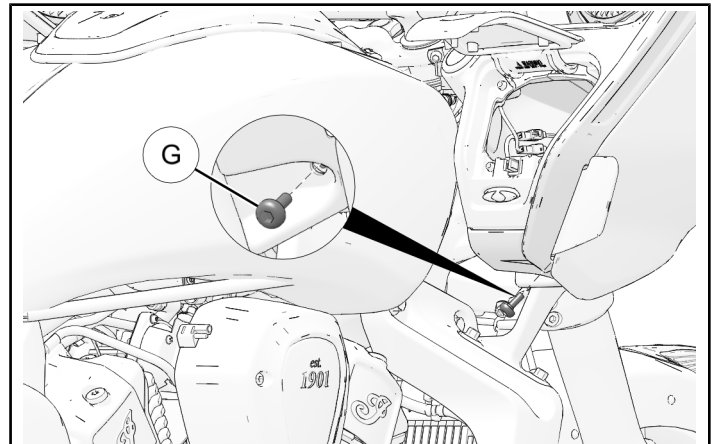
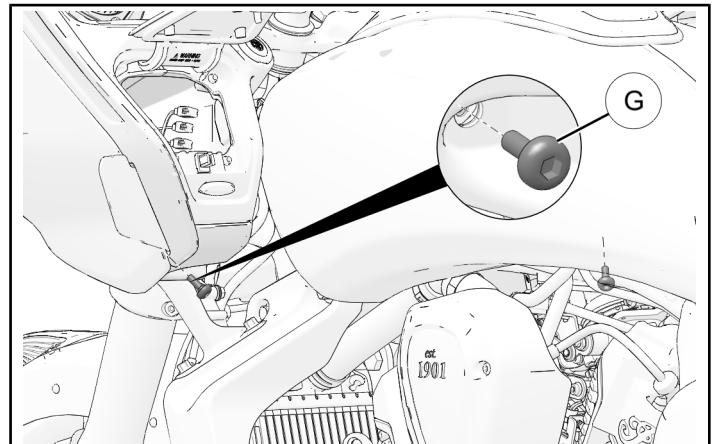


4. Loosely install three screws **E** around headlight bezel as shown.



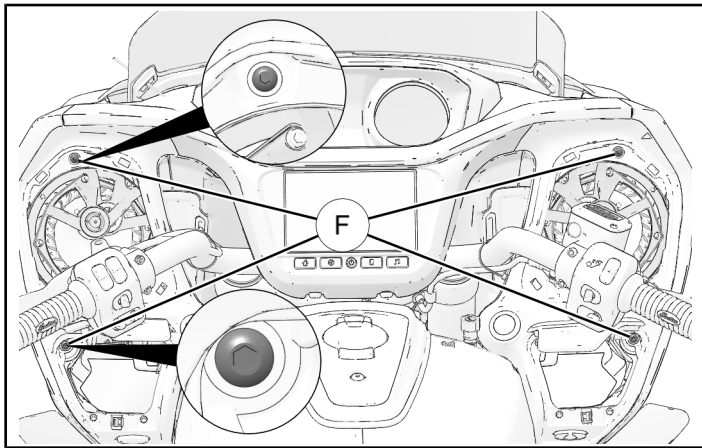
5. Loosely install one screw **G** into hole under edge of each side of fairing as shown.

DO NOT torque fasteners at this time.



- Loosely install two screws (F) into top outer corner of storage openings and two screws (F) into top center of speaker openings.

DO NOT torque fasteners at this time.



- Torque all outer fairing screws to specification.

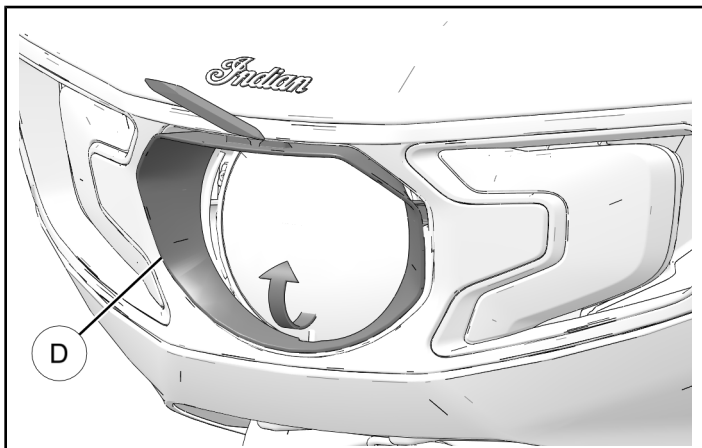
TORQUE

Outer Fairing Screws (E), (F), (G):
36 in-lbs (4 N·m)

- Carefully reinstall headlight bezel (D) into outer fairing opening starting with bottom tab. Press down on bezel (or use non-marring tool as shown) to insert upper tabs without damaging finish.

TIP

Use Special Tool:
 Non-marring Pry Tool, P/N 5456907 (or equivalent)



- Reinstall fairing speaker grills.

- Reinsert storage liners.

- Submit a Service Bulletin Warranty Claim for I-21-01-A.

I-21-01-B HARNESS REPLACEMENT

TOOLS REQUIRED

- 4mm, 5mm, 6mm Hex
- Body Panel Removal Tool: 5456907
- T20 driver
- Wire Cutter
- Torque Wrench
- 19mm socket
- 9" socket extension

FUEL SYSTEM DEPRESSURIZATION

IMPORTANT

Fuel lines remain under pressure at all times. Use caution when disconnecting lines for service. Always depressurize the fuel system prior to service.

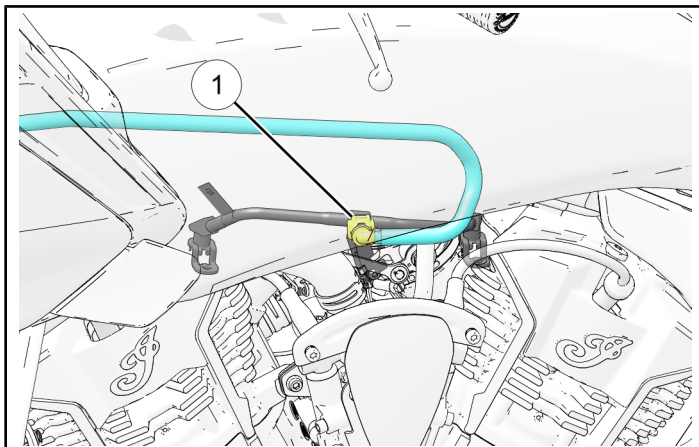
⚠ WARNING

Allow engine and exhaust to cool completely before disconnecting fuel line or removing tank. Wear eye protection.

1. Disconnect the fuel pump fuse and crank engine for 5 seconds to release fuel pressure.
2. Wrap a clean shop towel around fuel line fitting ①.
3. Squeeze both release buttons (one on each side of fitting) and hold. Gently slide fitting straight off fuel rail.

IMPORTANT

Do not use anything other than fingers to remove the quick connection. The use of tools can damage the connection.

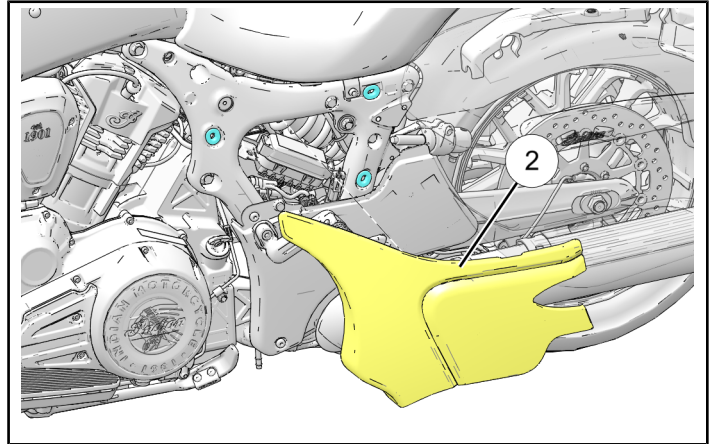


4. Cover fuel fittings to keep debris out.

SIDE COVER (UPPER), REMOVAL

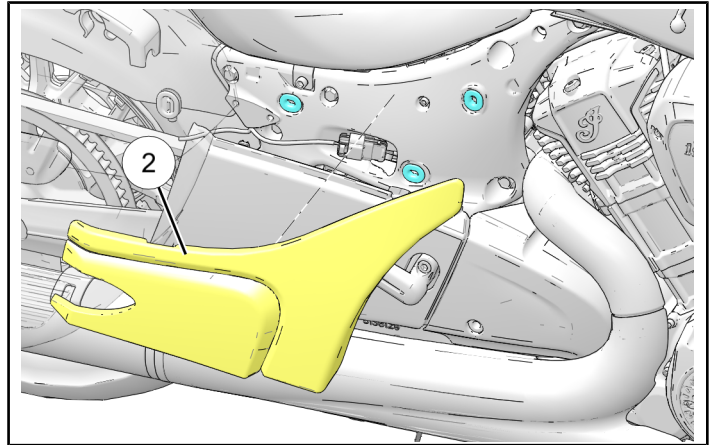
Left Side

- Remove upper side cover ②.



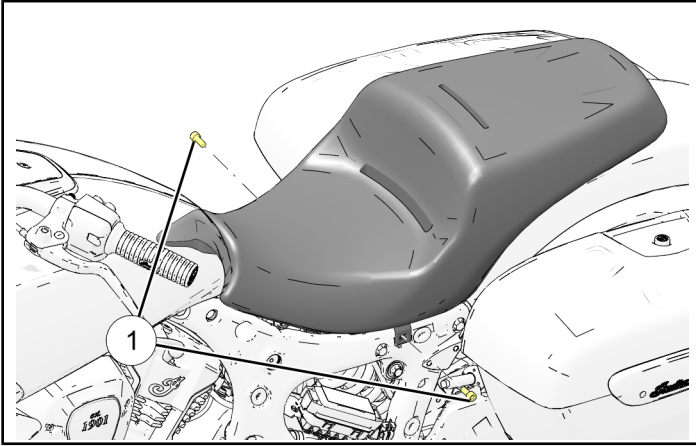
Right Side

- Remove upper side cover ②

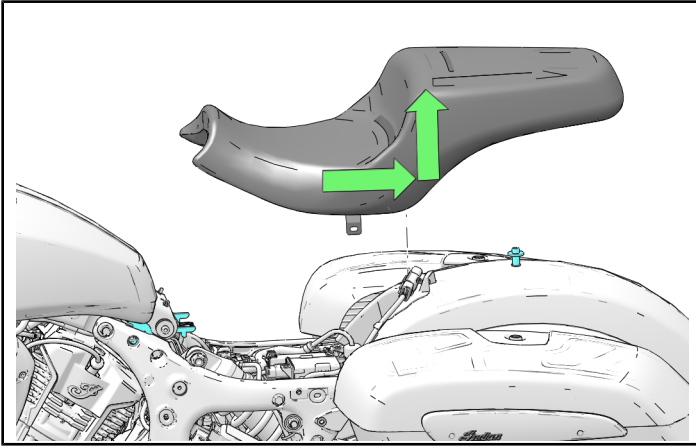


SEAT REMOVAL

1. Remove seat fastener ①.



2. If equipped, disconnect seat electrical connector.
3. Remove the seat backward and up to remove.



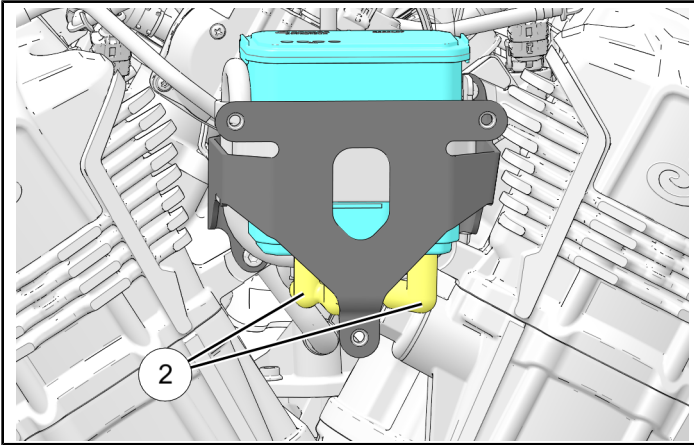
FUEL TANK REMOVAL (2020)

WARNING

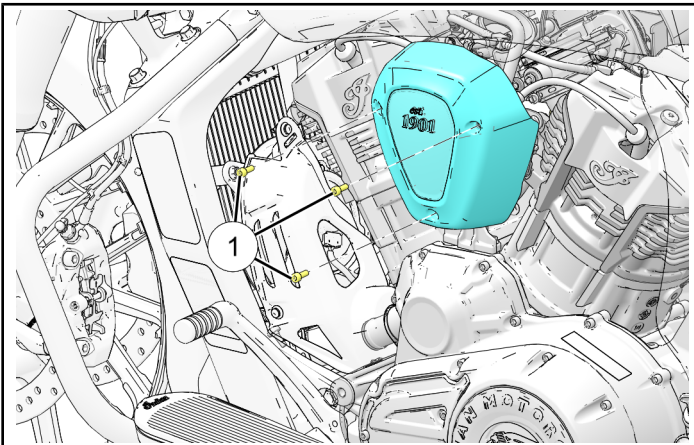
Allow engine and exhaust to cool completely before disconnecting fuel line or removing tank. Protect fuel tank finish when removing, storing, and installing tank.

Be prepared to place the fuel tank in a secure location with a drain pan positioned to catch any fuel that may leak or drip from disconnected hoses or fittings.

1. If equipped, disconnect vent lines ② from the carbon canister.



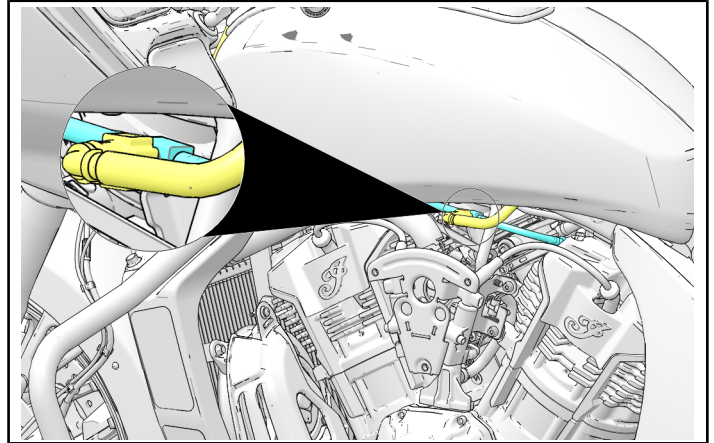
2. Remove left side v-cover by removing its fasteners ①.



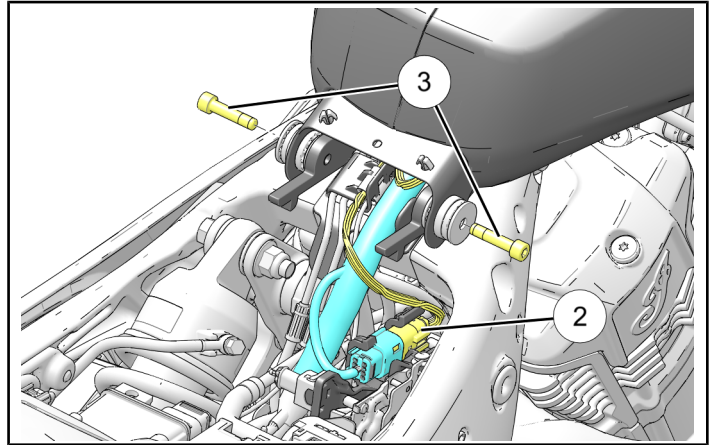
3. Disconnect the fuel feed line from the fuel rail.

IMPORTANT

Do not use anything other than fingers to remove the quick connection. The use of tools can damage the connection.



4. Disconnect the fuel pump electrical connector ②.



5. Remove the fuel tank fasteners ③.
6. Lift rear of tank upward and pull rearward to remove.

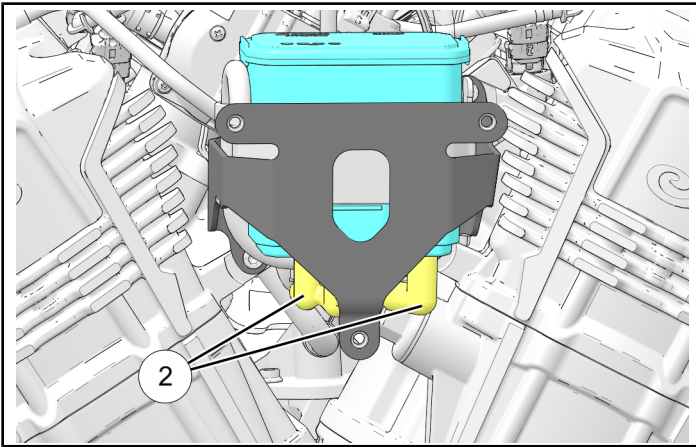
FUEL TANK REMOVAL (2021)

WARNING

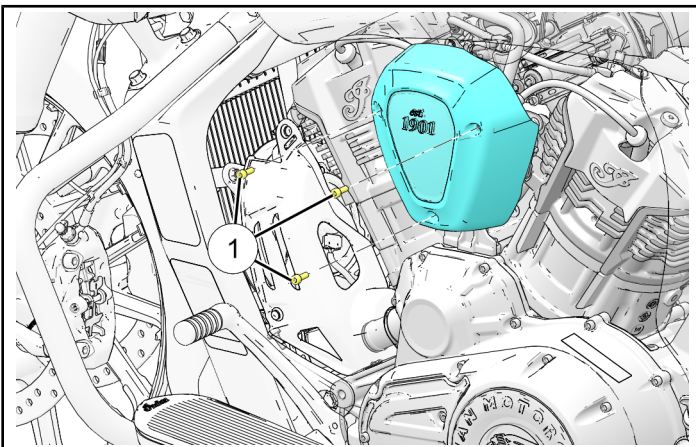
Allow engine and exhaust to cool completely before disconnecting fuel line or removing tank. Protect fuel tank finish when removing, storing, and installing tank.

Be prepared to place the fuel tank in a secure location with a drain pan positioned to catch any fuel that may leak or drip from disconnected hoses or fittings.

1. If equipped, disconnect vent lines ② from the carbon canister.



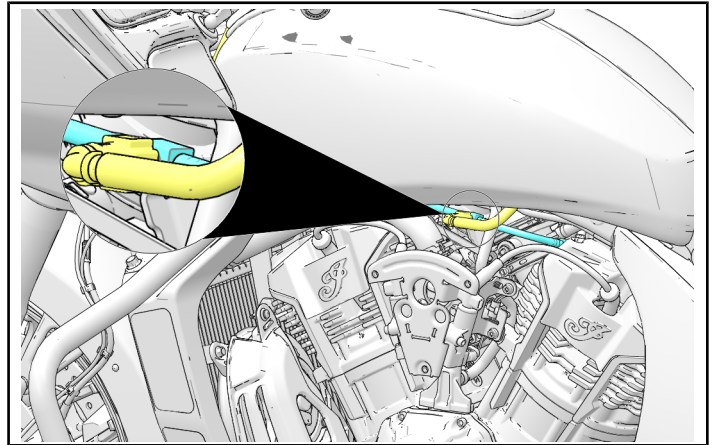
2. Remove left side v-cover by removing its fasteners ①.



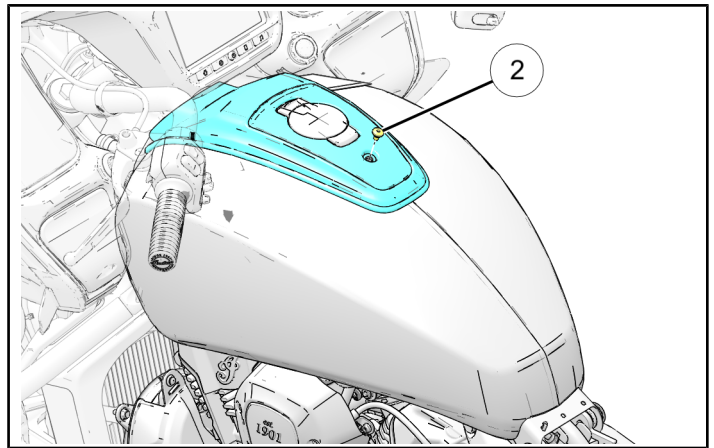
3. Disconnect the fuel feed line from the fuel rail.

IMPORTANT

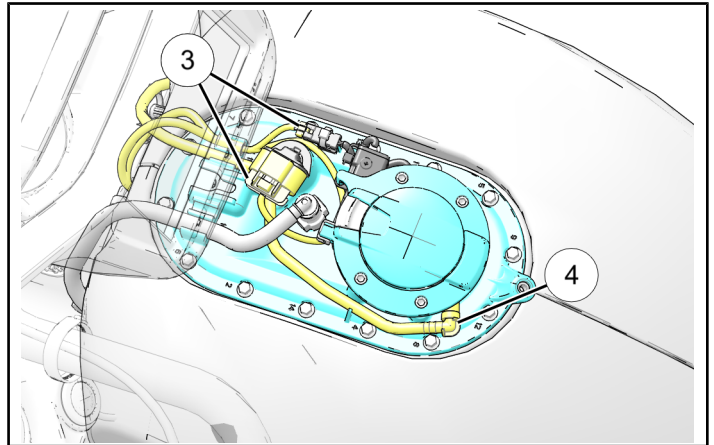
Do not use anything other than fingers to remove the quick connection. The use of tools can damage the connection.



4. Remove fuel tank console by removing its fastener ②.

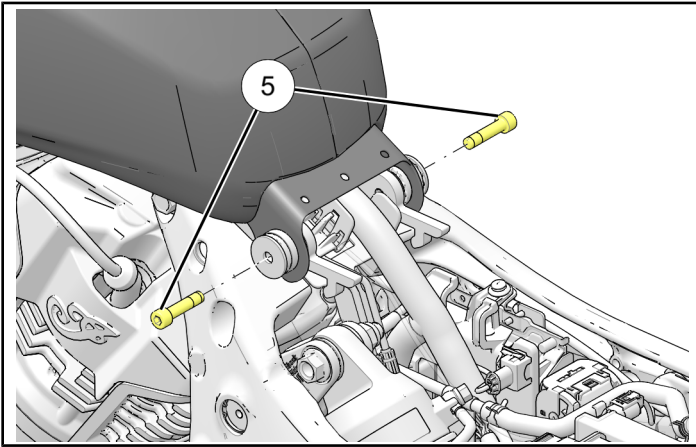


5. Disconnect fuel tank electrical connectors ③.



6. Disconnect fuel vent line ④.

7. Remove fuel tank fasteners ⑤.

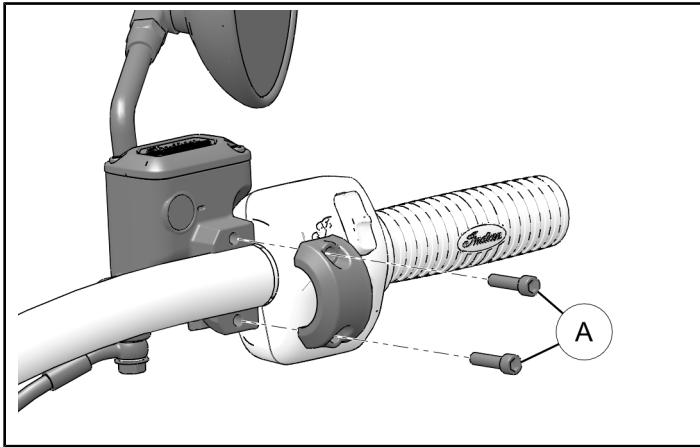


8. Lift rear of tank upward and pull rearward to remove.

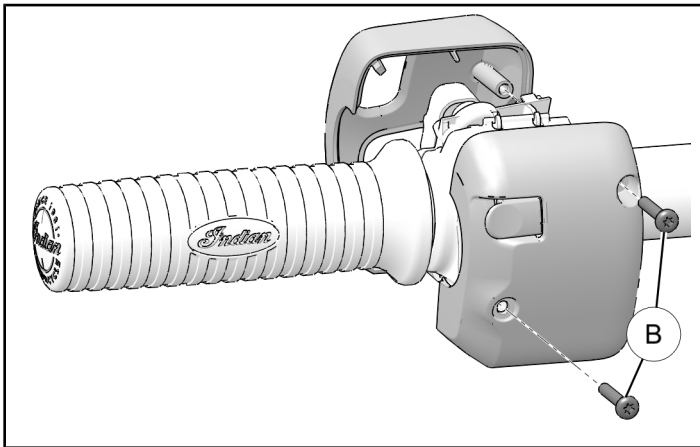
9. Cut and remove the handlebar tie strap from the upper triple clamp.

RIGHT-HAND CONTROLS REMOVAL

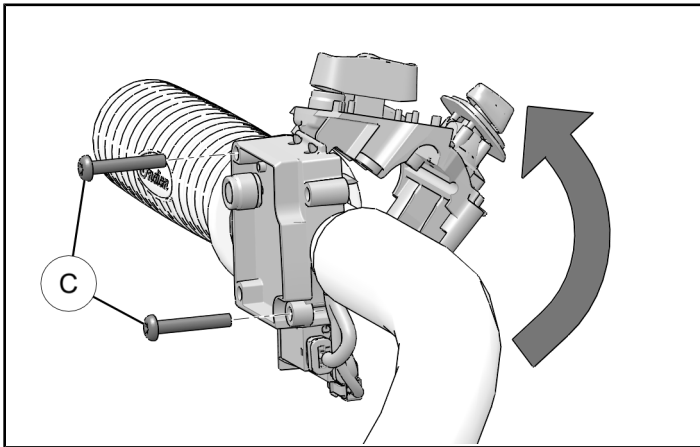
1. Starting with lower screw, remove and retain two screws **A** and remove master cylinder assembly. Carefully hang master cylinder assembly so that it remains level.



2. Remove and retain two screws **B** from right-hand switch cube cover and separate halves of cover.



3. Remove and retain two screws **C** from inner half of right-hand switch. Rotate switch side upward and remove entire assembly. Disconnect wire connectors from switch.

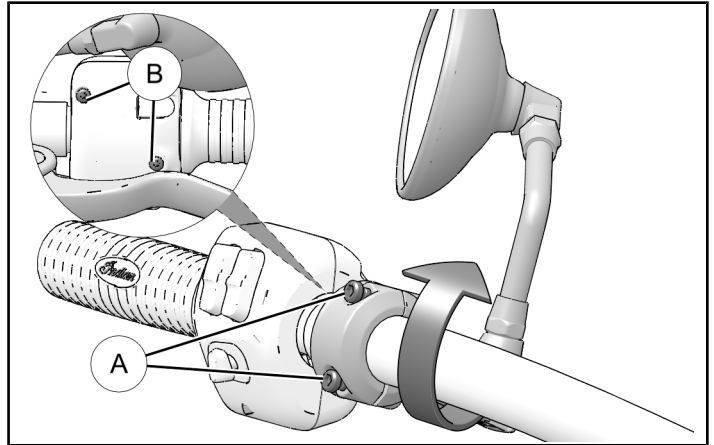


LEFT-HAND CONTROLS REMOVAL

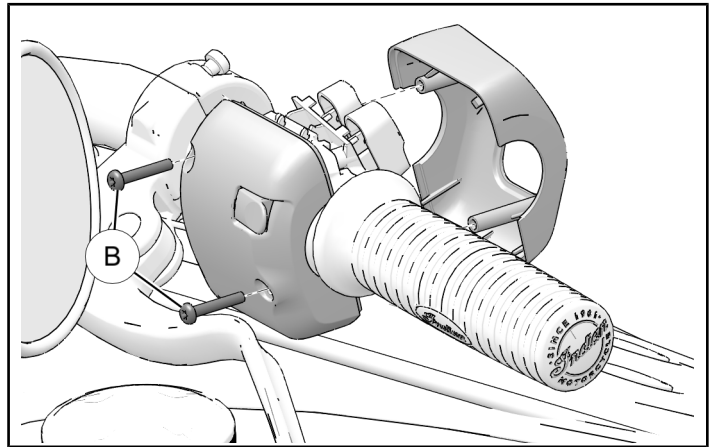
1. Loosen two screws **A**. Slide and carefully rotate clutch handle assembly enough to gain access to screws **B** on back of switch housing. Use extra caution with clutch handle wire.

IMPORTANT

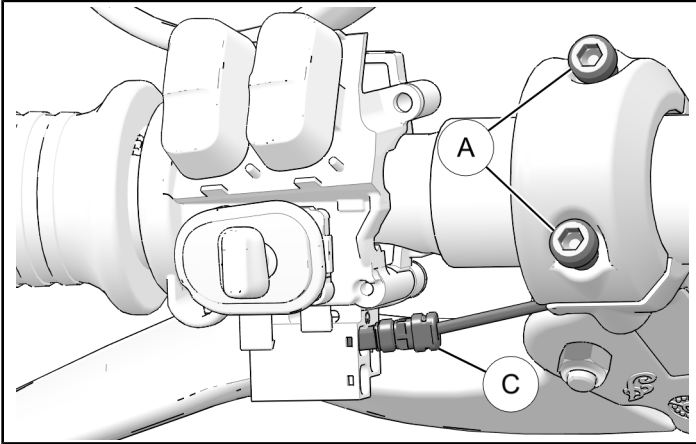
DO NOT over-rotate clutch handle assembly around handlebar or damage to clutch electrical wires will occur.



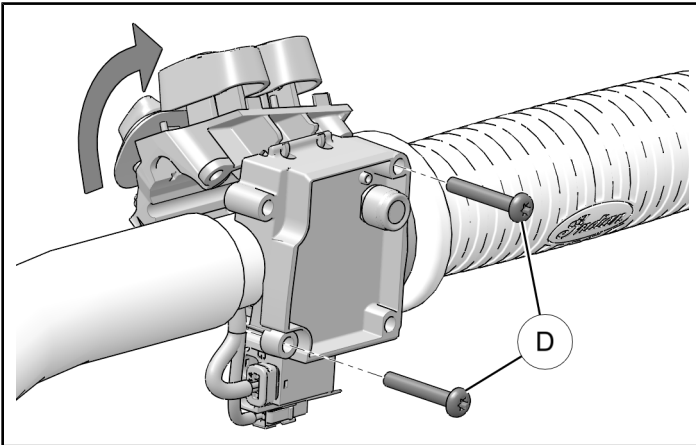
2. Remove and retain two screws **B** from left-hand switch cube cover and separate halves of cover.



3. Unplug clutch switch connector ③ from left-hand switch assembly by using a small pick to release retaining tab. Remove and retain two screws ① and clutch handle assembly. Remove clutch cable from handle and set clutch handle assembly aside.

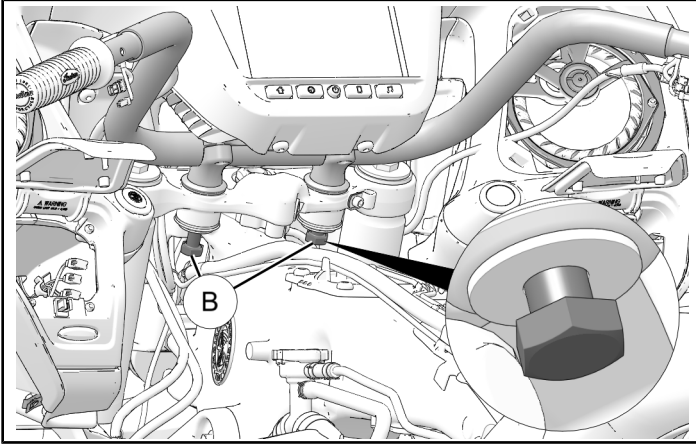


4. Remove and retain two screws ④ from inner half of left-hand switch. Rotate switch side upward and remove entire assembly. Disconnect wires from switch.



HARNESS REPLACEMENT

1. Remove the two handlebar riser bolts **B** and washers. Remove the handlebar and riser together.



2. Remove the handlebar harness from the handlebar.

3. Install NEW handlebar harness into the handlebar.

NOTICE

Make sure to route the 2 electrical connectors to the left and 3 connectors to the right.

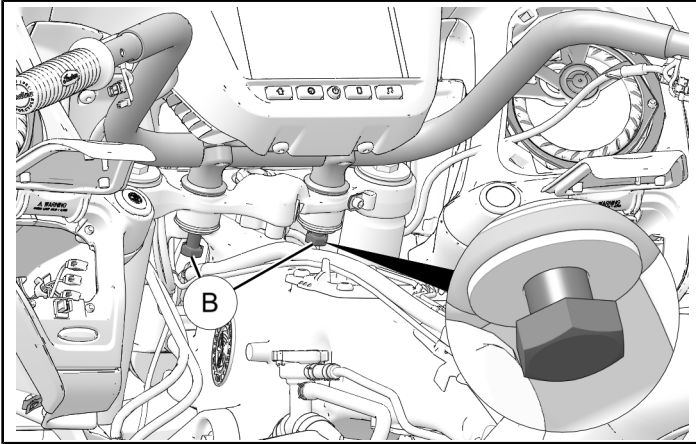
LEFT-SIDE (2 CONNECTORS)



RIGHT-SIDE (3 CONNECTORS)



4. Install the handlebars onto the motorcycle and loosely install washers with riser bolts **(B)**. Torque to specification.



TORQUE

Handlebar Riser Bolts **(B)**:
60 ft-lbs (81 N·m)

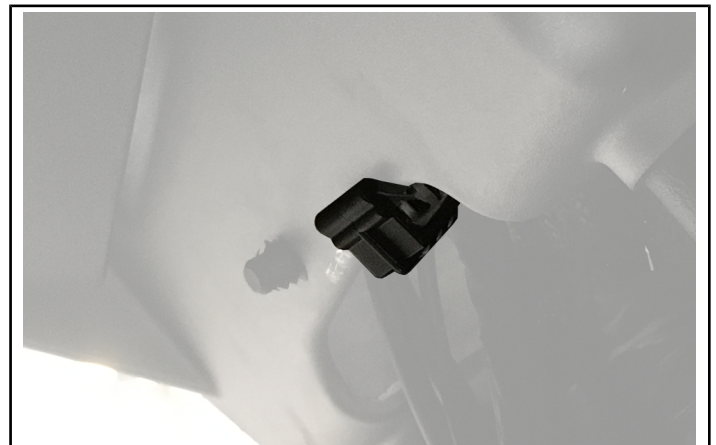
5. Route the electrical connector through the left side of the casting as shown.



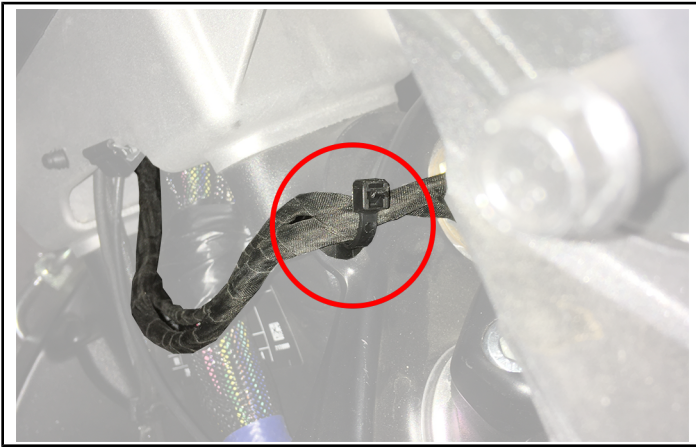
6. While holding the harness straight out from the motorcycle, measure the harness 3 in (7.6 cm) from the rear of the casting for accurate placement of the edge clip. At the measured location, install the edge clip to the harness so that the opening faces the front of the motorcycle.



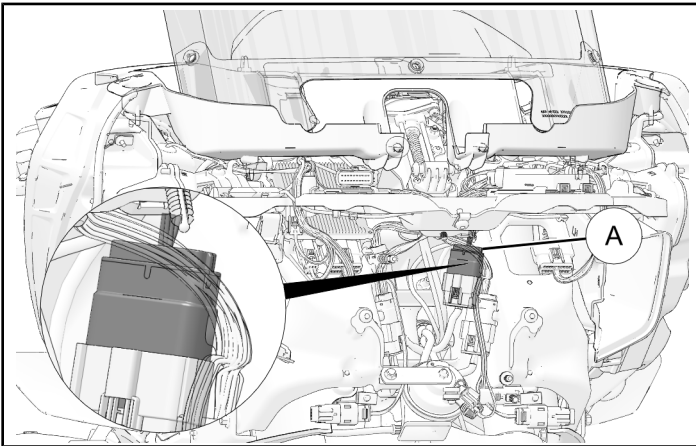
7. Install the harness edge clip to the casting as shown.



8. Install handlebar harness triple clamp cable tie as shown.



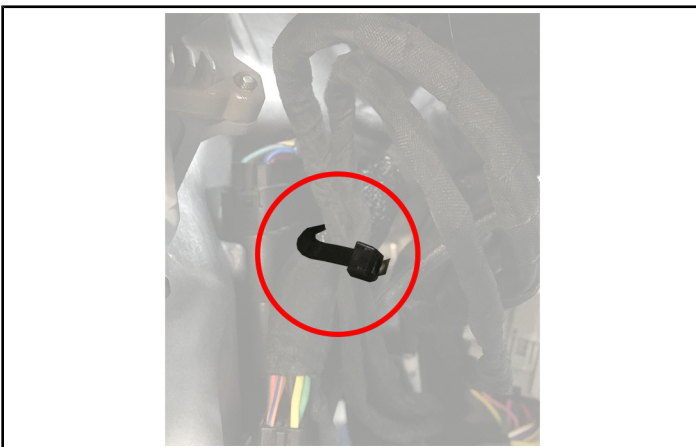
9. Connect the handlebar connector (A) and install to the retaining clip.



IMPORTANT

Listen for audible "click" when pressing into place. Pull gently on quick connector once seated to ensure a proper connection has been made.

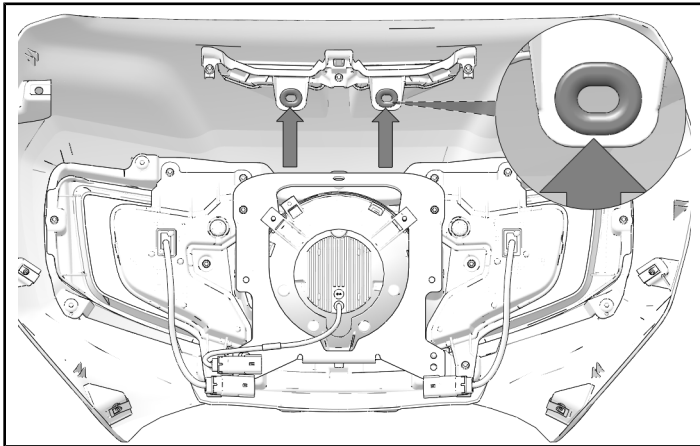
10. Replace any cut cable ties with new cable ties.



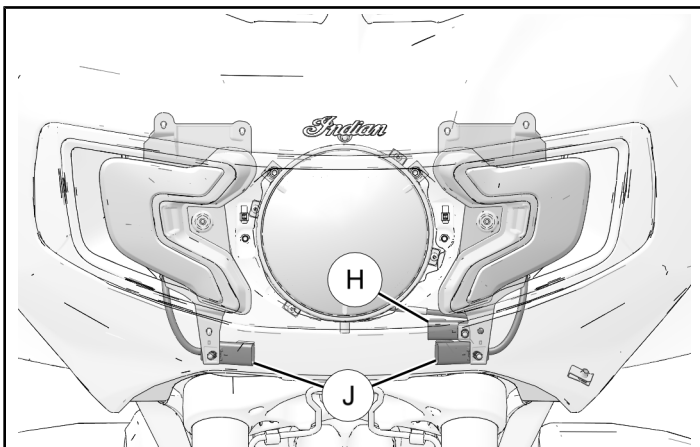
11. Turn handlebar left and right, lock-to-lock, while observing the harness for any tension or pulling of the clip from the casting. Determine if any resistance from wire binding. If resistance is felt or wire interference is found, verify clip position in step 2. Check clearances between hand controls and fuel tank. Adjust height if necessary.

OUTER FAIRING INSTALLATION

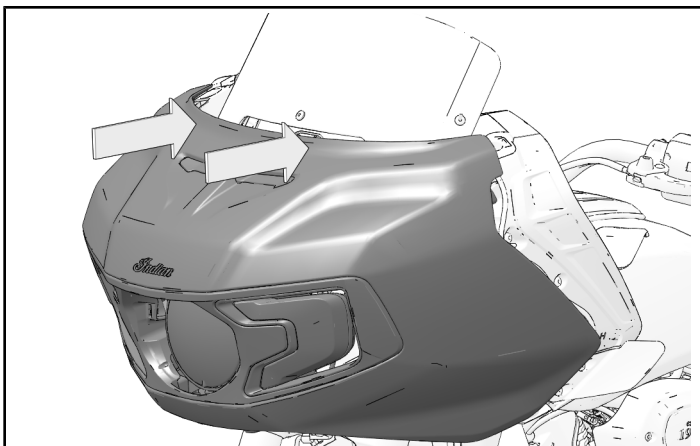
1. Lubricate two grommets with soapy water on inside of fairing.



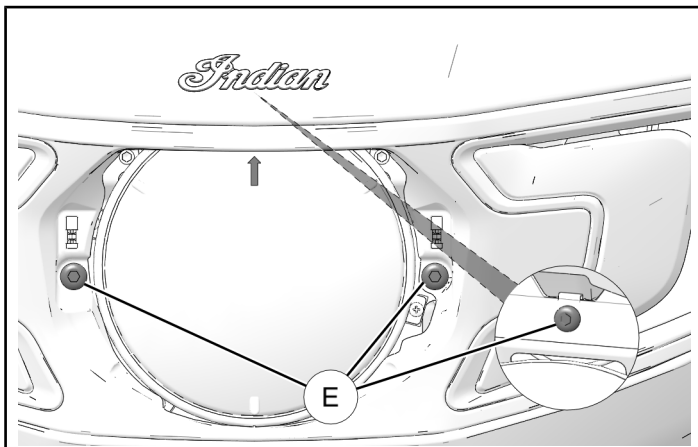
2. Set outer fairing in place and connect turn signal **I** and headlight **H** wire connectors.



3. Press fairing into place and at top edge to engage locating pins.

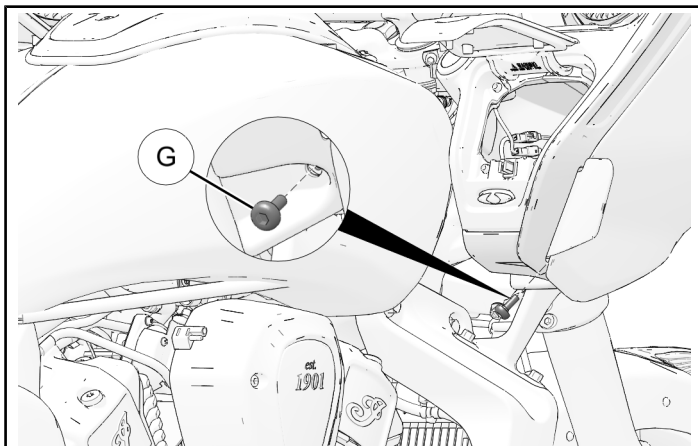
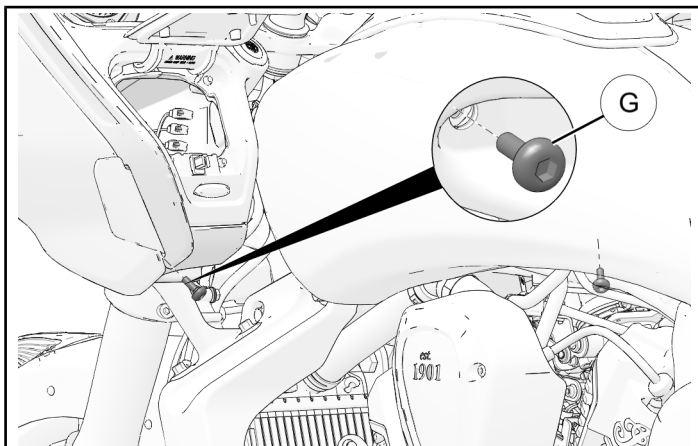


4. Loosely install three screws **E** around headlight bezel as shown.



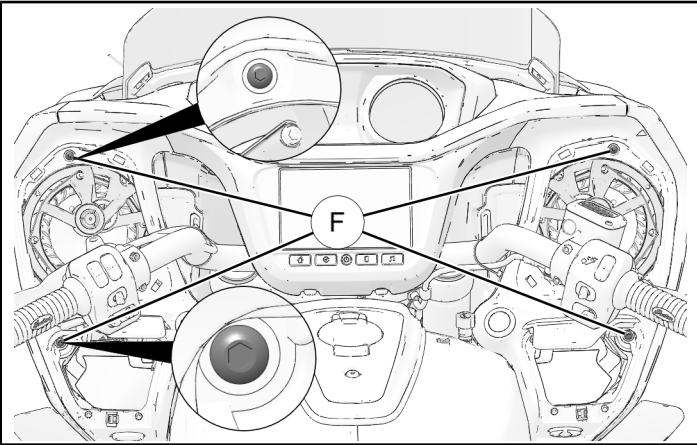
5. Loosely install one screw **G** into hole under edge of each side of fairing as shown.

DO NOT torque fasteners at this time.



- Loosely install two screws (F) into top outer corner of storage openings and two screws (F) into top center of speaker openings.

DO NOT torque fasteners at this time.

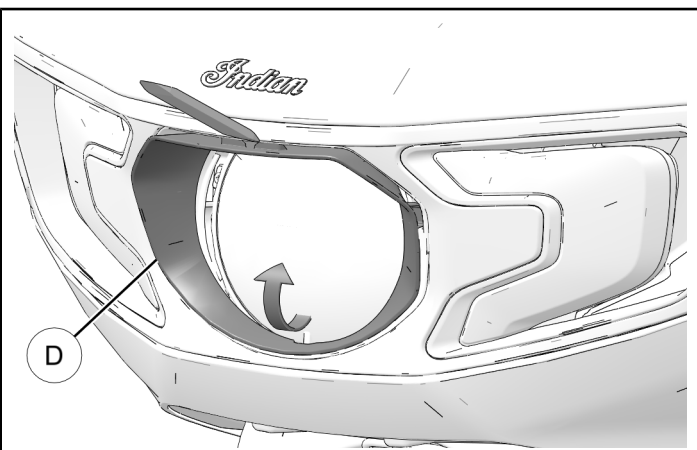


- Torque all outer fairing screws to specification.

TORQUE
Outer Fairing Screws (E), (F), (G):
36 in-lbs (4 N·m)

- Carefully reinstall headlight bezel (D) into outer fairing opening starting with bottom tab. Press down on bezel (or use non-marring tool as shown) to insert upper tabs without damaging finish.

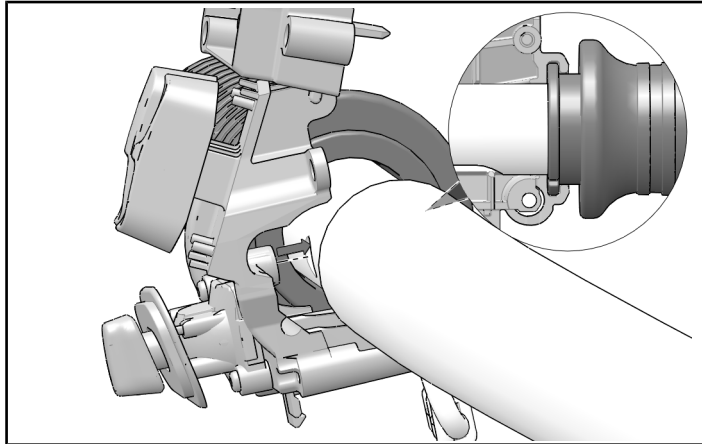
TIP
Use Special Tool:
Non-marring Pry Tool, P/N 5456907 (or equivalent)



- Reinstall fairing speaker grills.
- Reinsert storage liners.

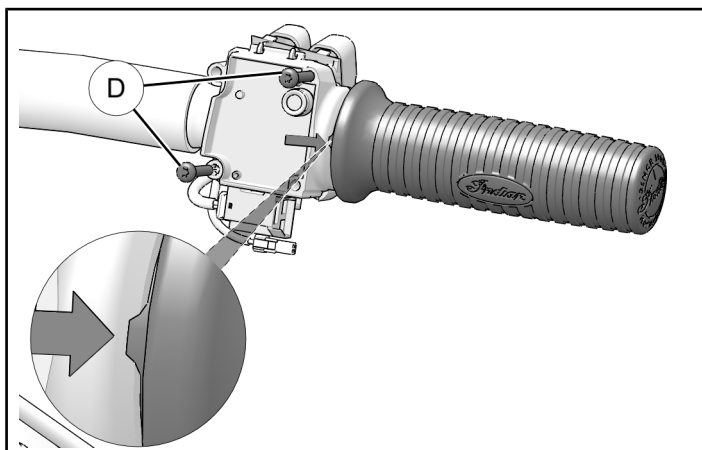
LEFT-HAND CONTROLS INSTALLATION

- Orient the switch housing with pin in rear half of housing and hole in bar as shown. Ensure to line up slots on left-hand Grip to switch housing as shown.

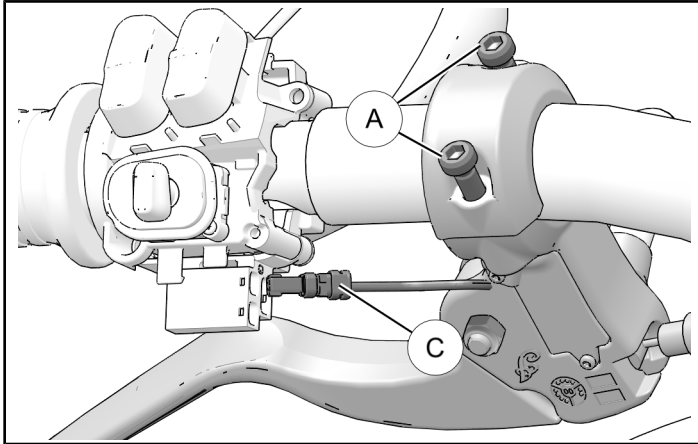


- Quickly reinstall outer switch assembly with two retained screws (D). Switch assembly notch should fit over tab on grip flange as shown with arrow. Rotate and adjust grip to fit properly. Torque screws to specification.

TORQUE
Switch Assembly Screws (D):
10 in-lbs (1 N·m)



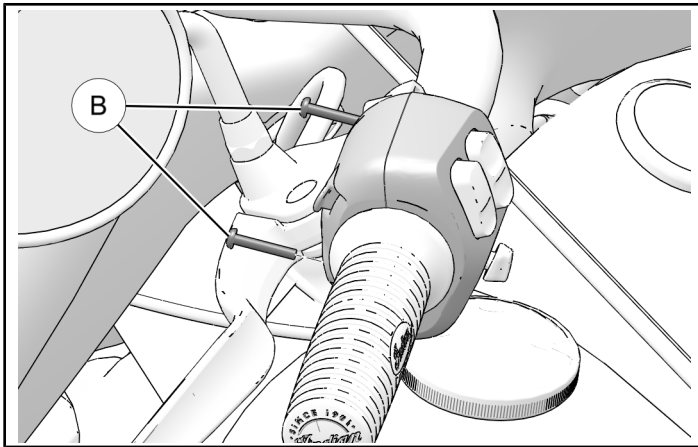
- Loosely reinstall clutch handle assembly using two retained screws (A). Reinstall clutch wire connector (C) to switch assembly.



- Reinstall left-hand switch cube cover using two retained screws (B). Ensure that all wiring is held within switch cube and is not pinched. Ensure clutch wire is not pinched by housing. Torque screws to specification.

TORQUE

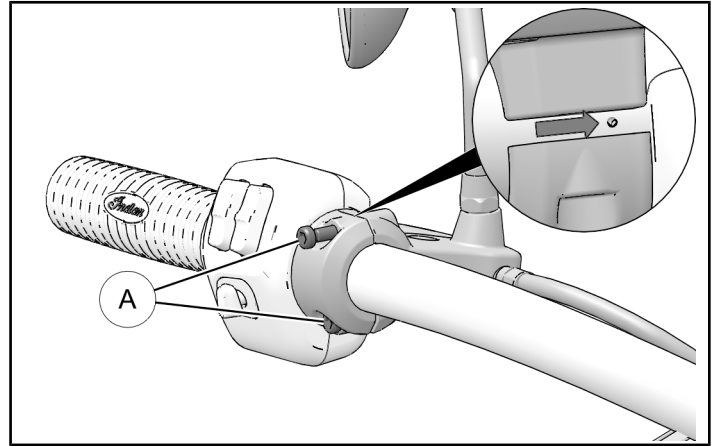
Switch Cube Cover Screws (B):
10 in-lbs (1 N·m)



- Align dimple in handlebar with center of clutch handle assembly halves as shown with arrow. Starting with top screw, torque screws (A) to specification.

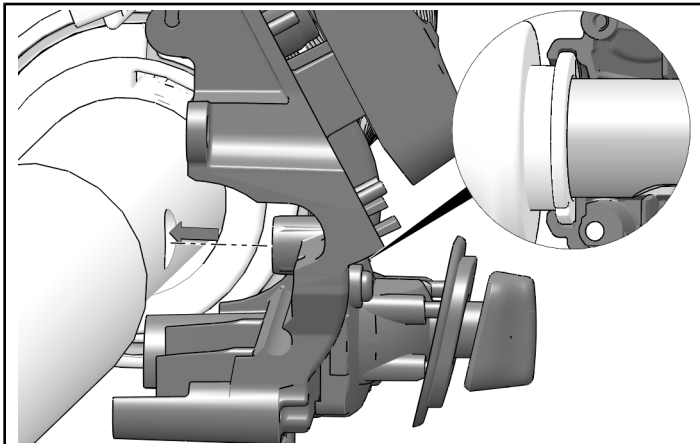
TORQUE

Clutch Handle Mount Screws (A):
70 in-lbs (8 N·m)



RIGHT-HAND CONTROLS INSTALLATION

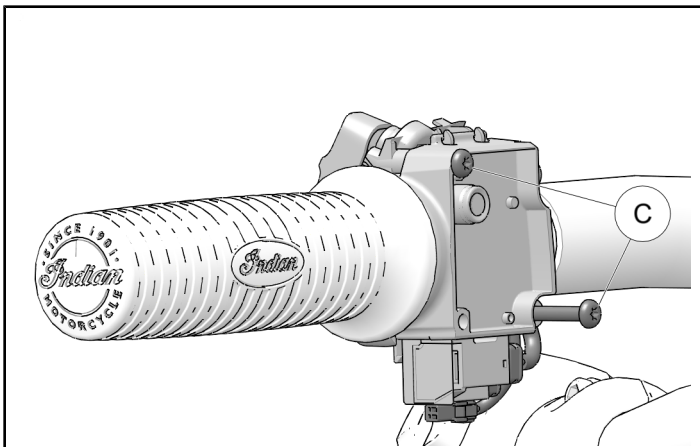
1. Orient throttle housing with pin in rear half of housing and hole in bar as shown. Ensure to line up slots in throttle tube to throttle housing.



2. Close throttle housing and reinstall two screws (C). Plug harness connectors into switch. Torque screws to specification.

TORQUE

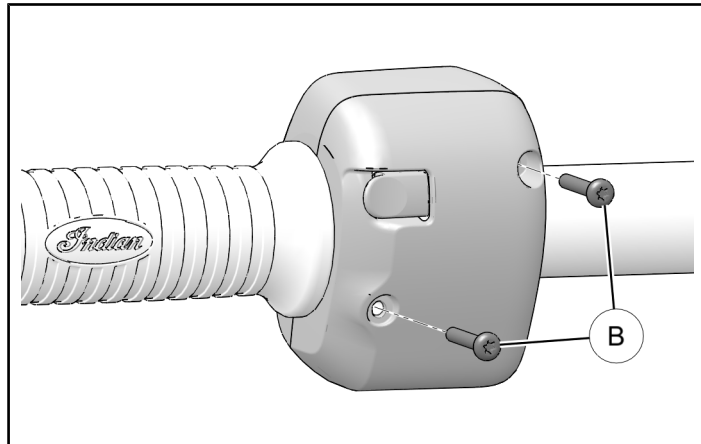
Throttle Housing Screws (C):
10 in-lbs (1 N·m)



3. Reinstall right-hand switch cube cover using two retained screws (B). Ensure that all wiring is held within switch cube and not pinched. Torque screws to specification.

TORQUE

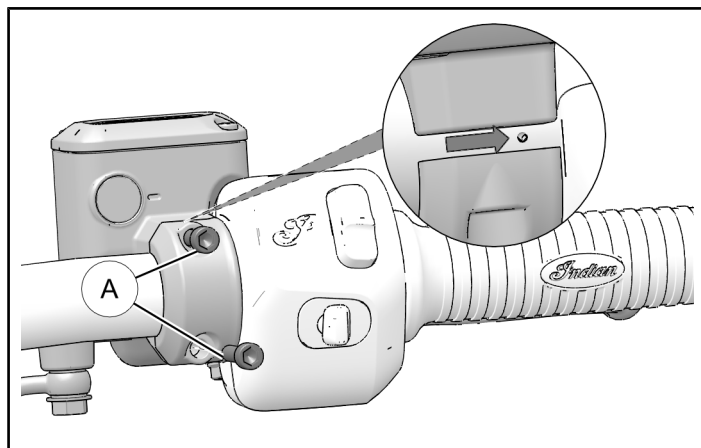
Switch Cube Cover Screws (B):
10 in-lbs (1 N·m)



4. Reinstall brake master cylinder assembly using two retained screws (A). Align dimple in handlebar with center of assembly halves as shown with arrow. Starting with top screw, torque screws to specification.

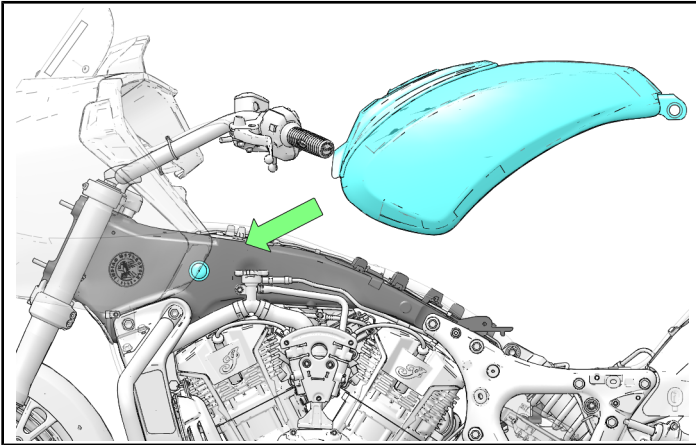
TORQUE

Master Cylinder Mounting Screws (A):
70 in-lbs (8 N·m)



FUEL TANK INSTALLATION (2020)

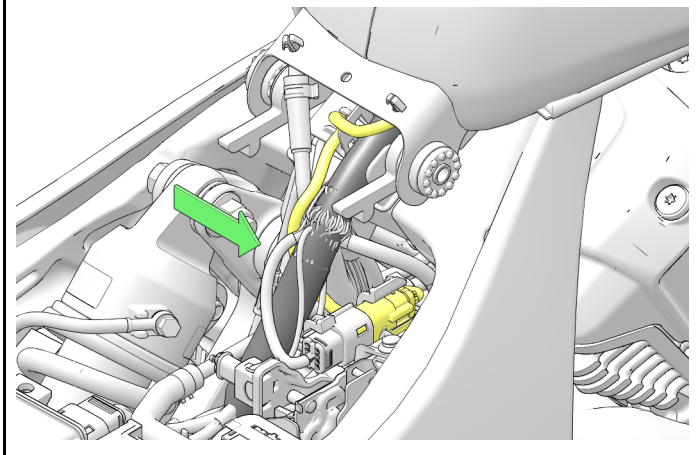
1. Place a protective cloth on the front of the tank when assembling tank to frame.
2. Verify that forward tank isolators are in position on the frame mounts and lower tank onto frame.



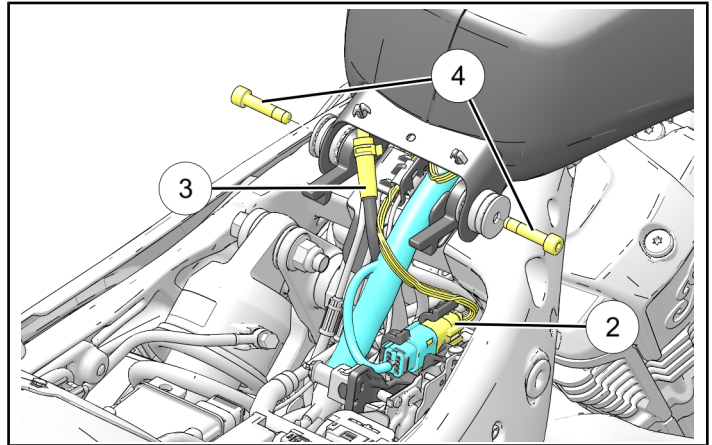
3. Slide tank forward until fully seated on forward isolators. Lower the rear of the tank into position over the rear mounting bracket.

IMPORTANT

Make sure the fuel pump harness is routed under the main harness to avoid damage to the fuel pump harness during seat installation.



4. Install fuel tank fasteners ④.



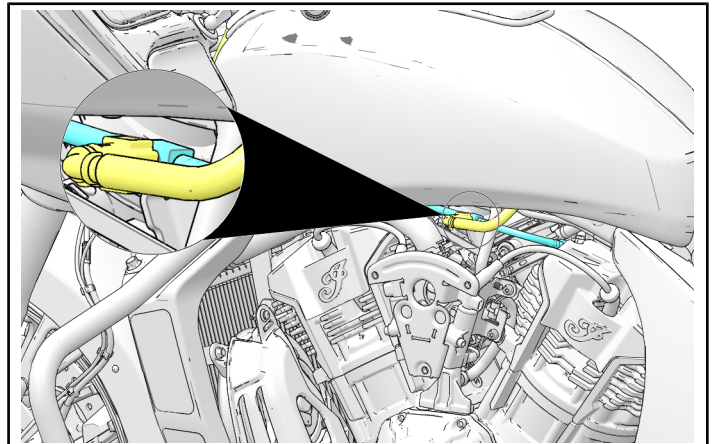
TORQUE

Fuel Tank Mounting Fasteners:
18 ft-lbs (24 N·m)

5. Connect fuel vent line ③.
6. Connect the fuel pump electrical connector ②.
7. Connect the fuel feed line to the fuel rail.

IMPORTANT

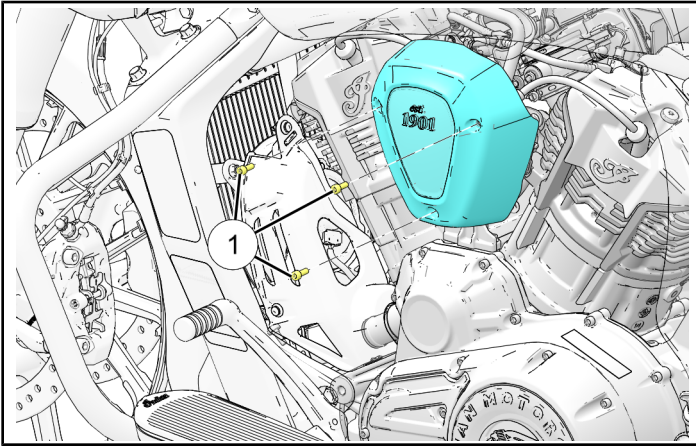
Verify fuel supply line is properly seated and locked in place by listening for audible "click" when pressing into place. Pull gently on quick connector once seated to ensure a proper connection has been made.



8. Prime the fuel system by turning the run/stop switch on and then off. Once the system is pressurized, carefully check all fuel connections, joints and lines for leaks.

9. Install left side v-cover and secure with its fasteners

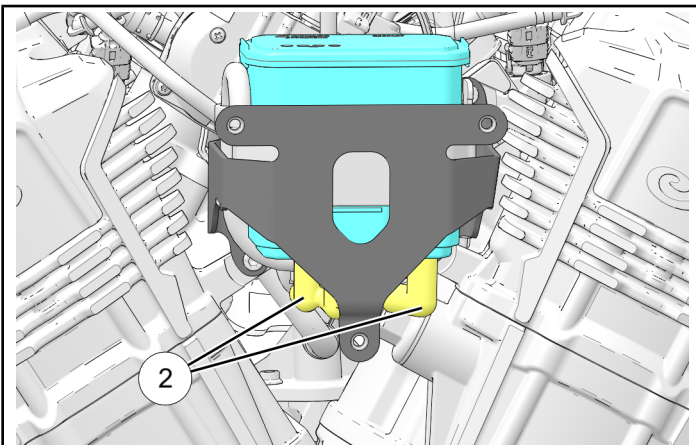
①.



TORQUE

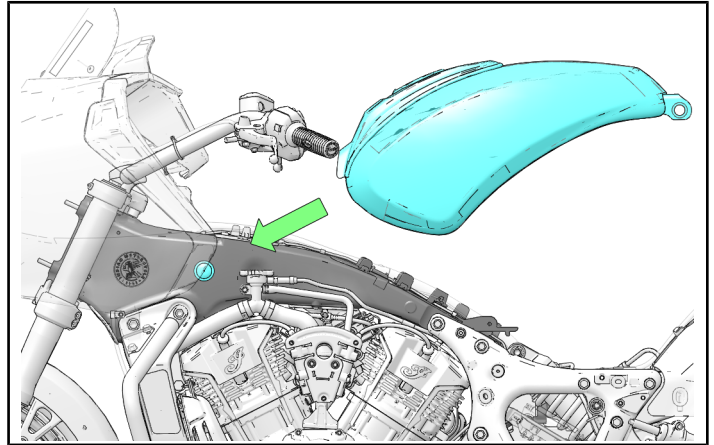
V-Cover Fastener:
84 in-lbs (10 N·m)

10. If equipped, connect vent lines ② to the carbon canister.



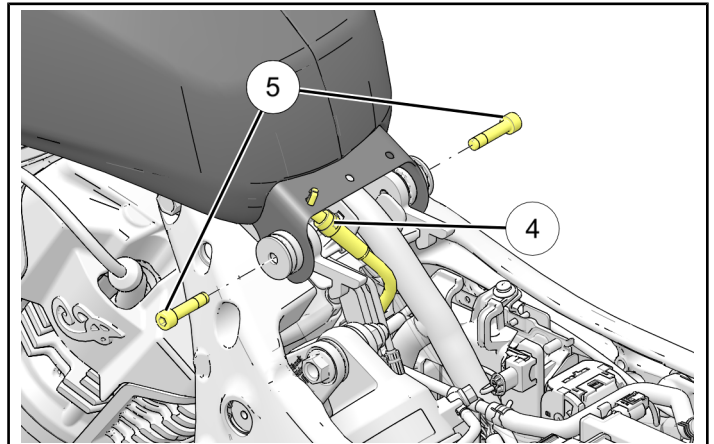
FUEL TANK INSTALLATION (2021)

1. Place a protective cloth on the front of the tank when assembling tank to frame.
2. Verify that forward tank isolators are in position on the frame mounts and lower tank onto frame.



3. Slide tank forward until fully seated on forward isolators. Lower the rear of the tank into position over the rear mounting bracket.

4. Install fuel tank fasteners ⑤.

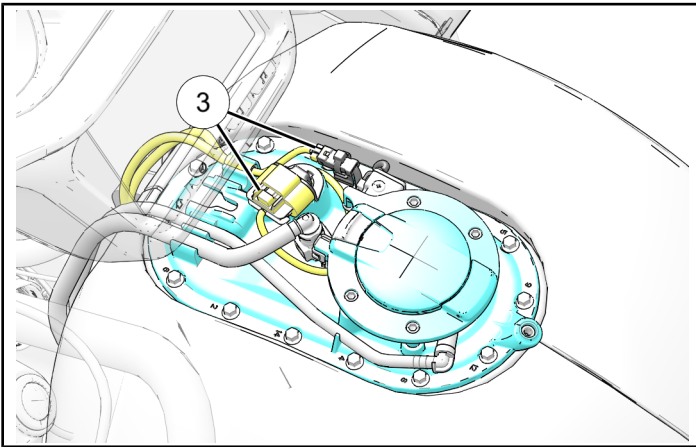


TORQUE

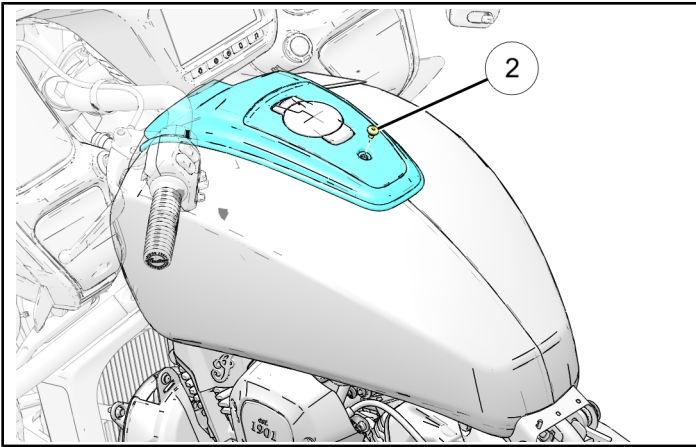
Fuel Tank Mounting Fasteners:
18 ft-lbs (24 N·m)

5. Connect fuel vent line ④.

6. Connect the fuel pump electrical connector ③.



7. Reinstall fuel tank console and its fastener ②.



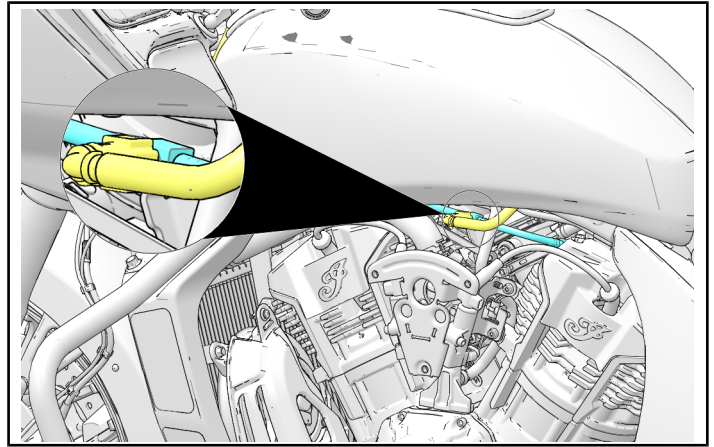
TORQUE

Fuel Tank Console Fastener:
84 in-lbs (10 N·m)

8. Connect the fuel feed line to the fuel rail.

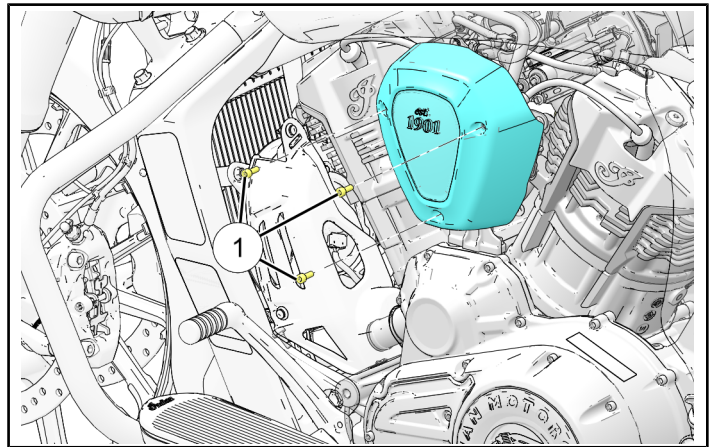
IMPORTANT

Verify fuel supply line is properly seated and locked in place by listening for audible "click" when pressing into place. Pull gently on quick connector once seated to ensure a proper connection has been made.



9. Prime the fuel system by turning the run/stop switch on and then off. Once the system is pressurized, carefully check all fuel connections, joints and lines for leaks.

10. Install left side v-cover and secure with its fasteners ①.

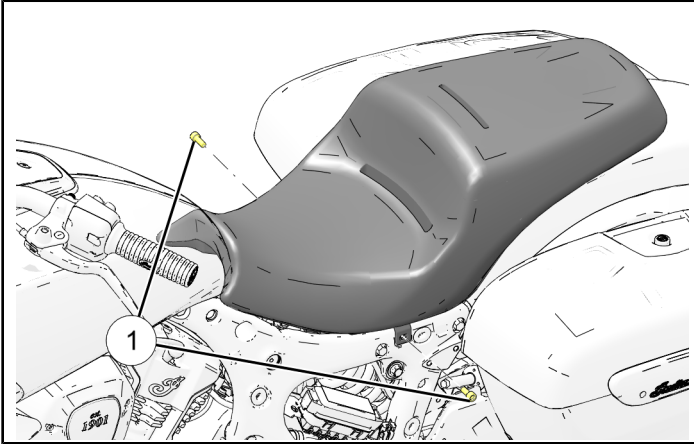


TORQUE

V-Cover Fastener:
84 in-lbs (10 N·m)

SEAT INSTALLATION

1. Slide the seat forward and engage with retaining arms. Press down on the rear of the seat.
2. Install the seat fasteners ①. Torque to specification.



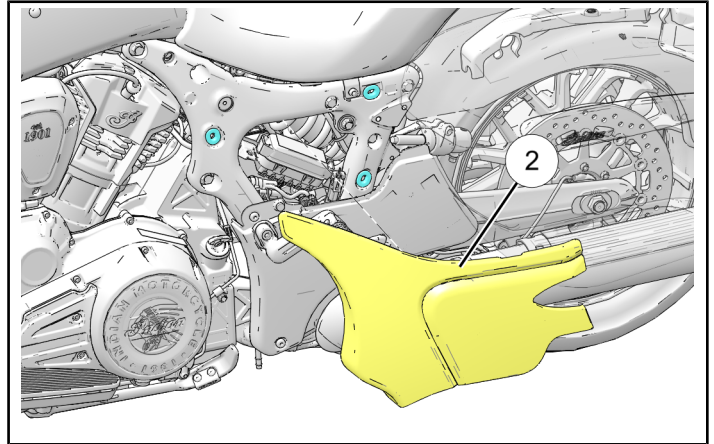
TORQUE

Seat Fastener:
18 ft-lbs (24 N·m)

SIDE COVER (UPPER), INSTALLATION

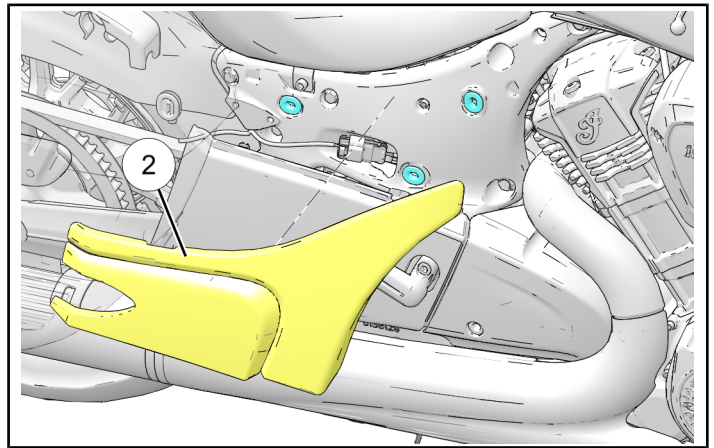
Left Side

- Install upper side cover ②.



Right Side

1. Install upper side cover ②.



2. Submit a Service Bulletin Warranty Claim for I-21-01-B.