

INSTALLATION INSTRUCTIONS

PART NUMBER: L101SXC003

DESCRIPTION: 2019 ASCENT TRAILER

HITCH

PLEASE READ THIS INSTRUCTIONS CAREFULLY, BEFORE YOU START INSTALLATION

SAFETY PRECAUTION: When installing Trailer Hitch, the use of safety galsses is recommended.

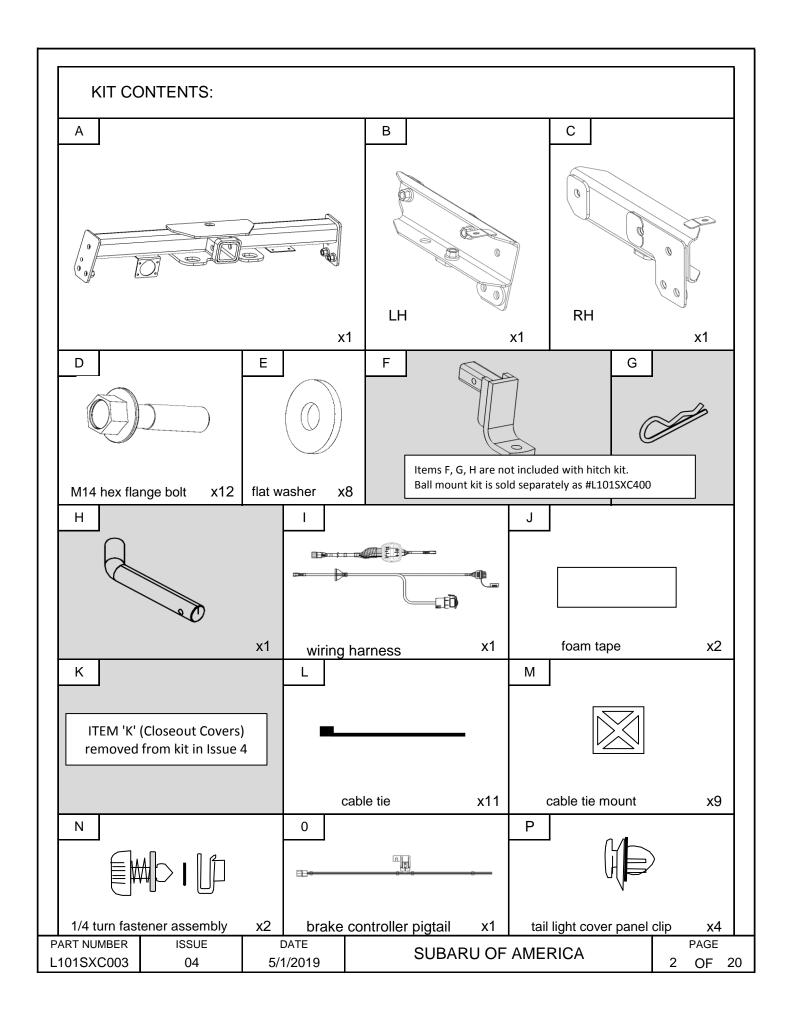
WARNING:

- 1. Always install the accessory following the instructions. Failure to do so may cause damage to the vehicle or the accessory.
- 2. Please also refer to SUBARU SERVICE MANUAL upon removing and re-assembling vehicle components.
- 3. Do not drill, cut, weld or otherwise modify the Trailer Hitch.
- 4. Do not lubricate the bolts and nuts with oil or grease.
- 5. If Trailer Hitch is removed, a bumper beam MUST be reinstalled. Failure to reinstall a bumper beam after removal of the trailer hitch will negatively affect vehicle rear crash performance. Please contact your SUBARU dealer.
- 6. When a Trailer Hitch is installed, it is not possible to install the rear towing hook.
- 7. Never exceed the maximum towing capacity and maximum tongue load. It could cause personal injury and/or vehicle damage.
- 8. When towing, total vehicle weight must not exceed the Gross Vehicle Weight Rating (GVWR). Also the load distribution on each axle must not exceed the Gross Axle Weight Rating (GAWR). The GVWR and GAWR for your vehicle can be found on the "Certification label" which is located on the left side center pillar of the vehicle.
- 9. For models equipped with RAB, refer to the part which indicated [RAB].
- 10. Ensure all recyclable discarded vehicle accessory components and packaging are recycled following local recycling regulations.
- 11. It is always recommended that this accessory is fitted by a qualified SUBARU technician.
- 12. In the engine bay, disconnect the negative battery terminal.
- 13. Safely store and protect any removed vehicle components.
- 14. Ensure all bare metal surfaces are protected using Automotive Bare Metal Primer and touch-up paint.
- 15. Remove all metal swarf and dust from all vehicle surfaces if surface is used for accessory installation.
- 16. Tow hitch to be used with Subaru ball mount L101SXC400. Ball mount is sold separately

Warranty is granted only when installation is done correctly by your SUBARU dealer. SUBARU reserves the right to change the design of accessories and/or construction, illustration, and text of this manual at anytime without prior notice.

Please put installation instruction in glove box once installation is complete.

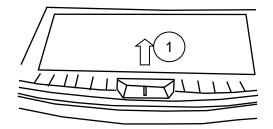
PART NUMBER	ISSUE	DATE	SUBARU OF AMERICA	PAGE
L101SXC003	04	5/1/2019	SUBARU OF AMERICA	1 OF 20



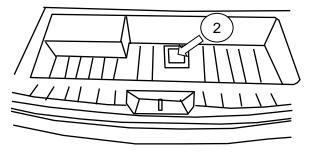
TOOLS REQUIRED:		
1/2" and/or 3/8" drive torque wrench(es) (capable of measuring 82 ft-lb and 5 in-lb)	7mm socket	
1/2" and 3/8" drive racket	Needle nose pliers	
Flat head screwdriver	6" socket extension	
Phillips head screwdriver	touch up paint	
7 mm open end wrench	side cutter	
3/8" open end wrench	sandpaper or scouring pad (Scotch Brite)	
19mm deep well socket		
17mm deep well socket		
14mm deep well socket		
10mm socket		
ART NUMBER ISSUE DATE 101SXC003 04 5/1/2019	SUBARU OF AMERICA	PAGE 3 OF 2



1) Raise and remove the carpeted rear floorboard

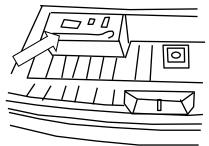


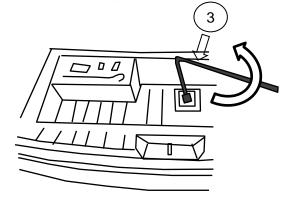
2 Remove the square panel and rubber grommet to access the spare tire winch



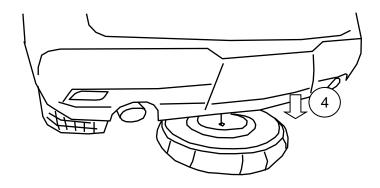
3 Use the spare tire wrench to turn the winch and lower the spare tire







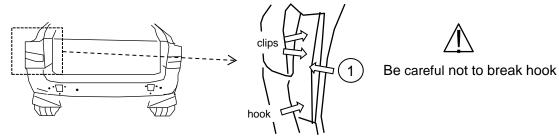
4 Lower the spare tire to the ground.



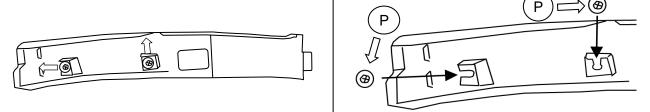
PART NUMBER	ISSUE	DATE	SUBARU OF AMERICA	PAGE
L101SXC003	04	5/1/2019	SUBARU OF AMERICA	4 OF 20

2 REMOVE REAR BUMPER FASCIA

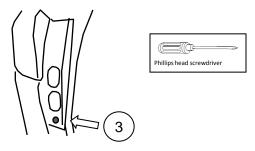
1 Remove the rear tail light cover (LH and RH sides) by pulling back to release 2 clips and then up to remove hook.



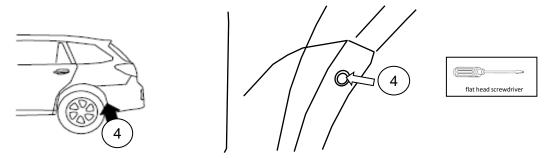
Remove 2 clips per side from the inside of the tail light cover by sliding them out. Replace the clips with 2 new clips "P". Install the new clips by sliding them in until they are fully seated.



(3) Remove M6 screws from bumper fascia (LH and RH sides)



With a screwdriver, release (1) small push pin fastener per side on the LH/RH fascia wheel well. Use the tip of the screwdriver to push the center of the pin.

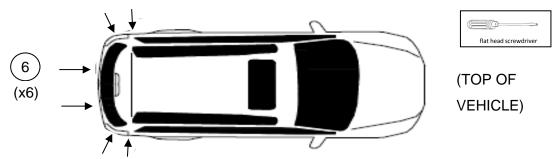


Carefully set aside the fasteners and components where they will not be damaged. Parts will be reinstalled later.

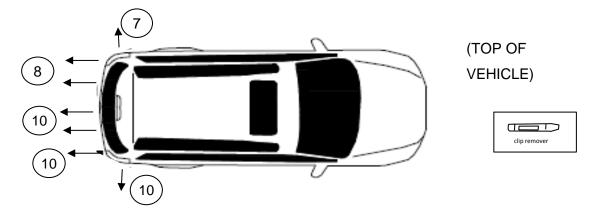
PART NUMBER	ISSUE	DATE	SUBARU OF AMERICA	PAGE
L101SXC003	04	5/1/2019	SUBARU OF AMERICA	5 OF 20

2 REMOVE REAR BUMPER FASCIA (CONTINUED)

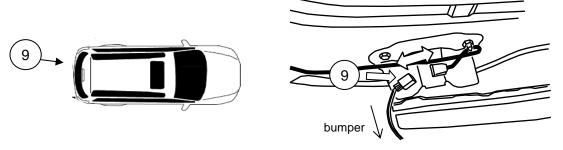
With a small flat head screwdriver, remove (6) large push pin fasteners across the length of the bumper. Save push pins for later use.



- (7) Starting at the LH side wheel well, using both hands, pull one side of the fascia out from the vehicle.
- (8) Continue around the rear LH side. At the rear corner, begin to pull rearward and work across halfway across the vehicle.



(9) Disconnect the RAB sensor harness connector at the LH side of the bumper beam.

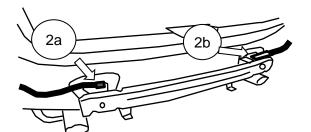


- (10) Continue across the rear and work across the vehicle to remove the entire bumper.
- (11) Fully release the bumper from the vehicle body.
- (12) Lay fascia aside where it will not be damaged during hitch installation.

PART NUMBER	ISSUE	DATE	SUBARU OF AMERICA	PAGE
L101SXC003	04	5/1/2019	SUBARU OF AMERICA	6 OF 20

3 REMOVE REAR BUMPER BEAM

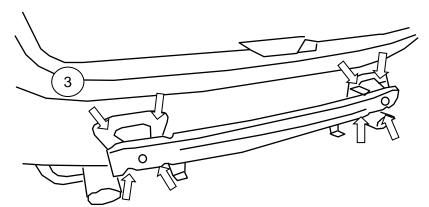
- (1) Remove the foam piece.
- 2 Disconnect and remove the RAB harness connector (a) and the smart antenna connector (b) from the top of the bumper beam on LH and RH sides.

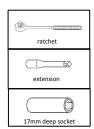


Be careful not to damage connectors or wiring harnesses.



3 Using 17 mm deep socket, remove (3) bolts and (1) nut from each side of the bumper beam.

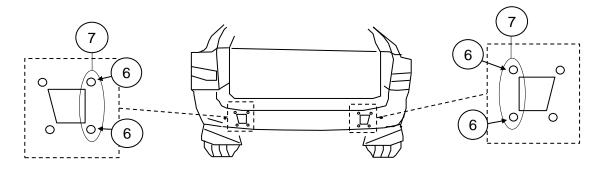




- (4) Retain (4) of the bolts for installation of cover panel.
- (5) Remove the bumper beam.

If Trailer Hitch is removed, a bumper beam MUST be reinstalled. Failure to reinstall a bumper beam after removal of the trailer hitch will negatively affect vehicle rear crash performance. Please contact your SUBARU dealer.

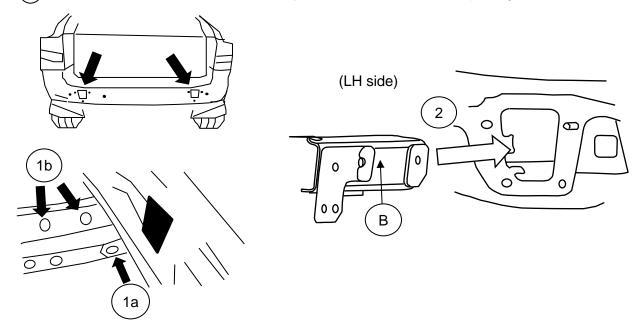
- (6) Reinstall (1) nuts and (1) bolts on each side in the location shown.
- (7) Apply touch up paint on the bare metal areas around the bolts to avoid corrosion.



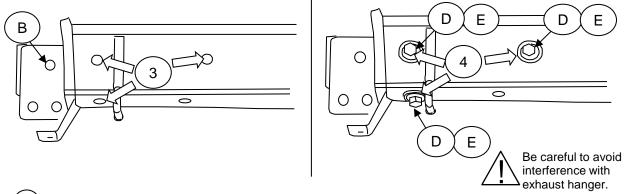
PART NUMBER	ISSUE	DATE	SUBARLLOF AMERICA	PAGE
L101SXC003	04	5/1/2019	SUBARU OF AMERICA	7 OF 20

4 INSTALL LH / RH FRAME BRACKET ASSEMBLIES - PARTS "B" & "C"

- 1 Remove (1) rubber grommets (a) and (2) adhesive patches (b) per side from the bottom of the side frame.
- (2) Place LH welded bracket assembly "B" into side frame hole opening.



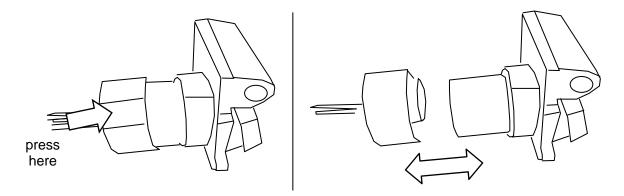
- (3) Align the bracket holes with the holes in the frame rail.
- (4) Loosely install (3) M14 bolts "D" and washers "E" first through the (1) bottom frame hole followed by the (2) side frame holes.



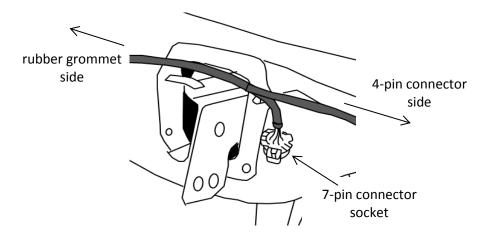
(5) Repeat steps #2-4 for the RH side bracket assembly "C".

PART NUMBER	ISSUE	DATE	SUBARU OF AMERICA	PAGE
L101SXC003	04	5/1/2019	SUBARU OF AMERICA	8 OF 20

6 If already connected, separate the 7-pin connector from the wiring harness "I" by pressing down on the latch to release.

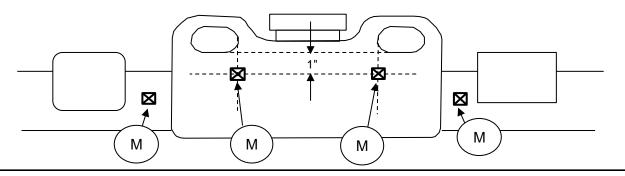


7 Drape the wiring harness from Step 4-6 across the LH bracket as shown.



- 5 INSTALL MAIN HITCH MEMBER PART "A"
- 1 Apply 4 cable tie mounts "M" to the bottom of the hitch chain plate and cross tube in the locations shown below.

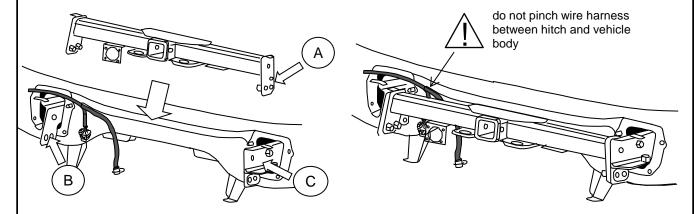
NOTE: Clean the surface before applying adhesive.



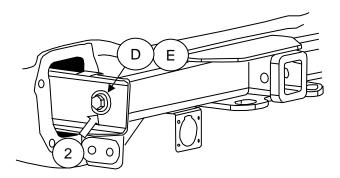
PART NUMBER	ISSUE	DATE	SUBARU OF AMERICA	PAGE
L101SXC003	04	5/1/2019	SUBARU OF AMERICA	9 OF 20

5 INSTALL MAIN HITCH MEMBER - PART "A" (CONT'D)

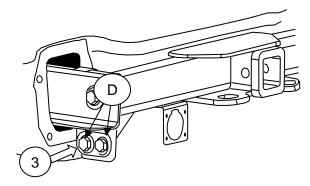
Install the main hitch "A" between the LH and RH frame bracket assemblies "B" and "C". Be sure that the wiring harness is located between the hitch and vehicle but not pinched in place.



(2) Loosely install (1) M14 bolt "D" and washer "E" and on each side through the top hole in LH/RH bracket assemblies "2" and "3".



(3) Loosely install (2) M14 bolts "D" on each side through the bottom holes in bracket assemblies "1" and "2".

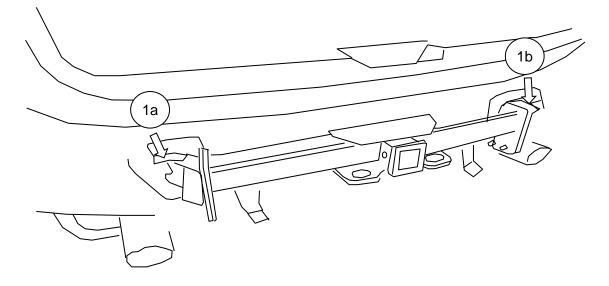


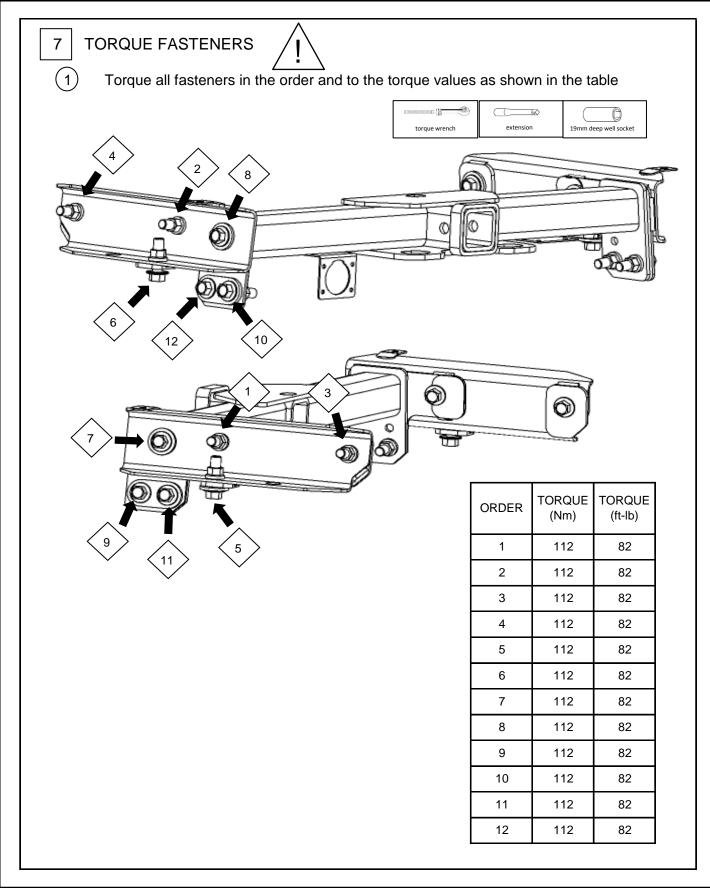
4 Hand tighten all (6) M14 bolts on each side

PART NUMBER	ISSUE	DATE	SUBARU OF AMERICA	PAGE
L101SXC003	04	5/1/2019	SUBARU OF AMERICA	10 OF 20

6 RECONNECT RAB SENSOR HARNESS & ANTENNA CONNECTORS

Reinstall the RAB (a) and smart antenna (b) connectors removed in Step 3 - 2 into the tabs in the hitch bracket assemblies "2" and "3"

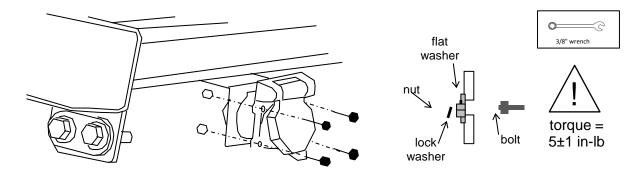




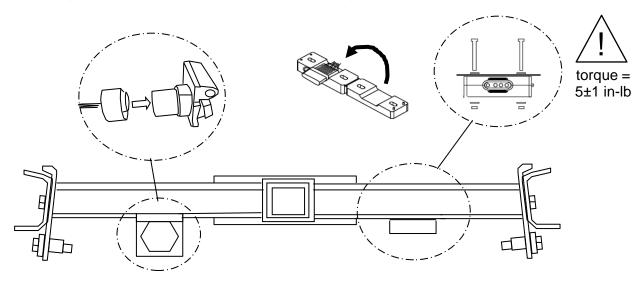
PART NUMBER	ISSUE	DATE	SUBARU OF AMERICA	PAGE
L101SXC003	04	5/1/2019	SUBARU OF AMERICA	12 OF 20

8 WIRING HARNESS INSTALLATION

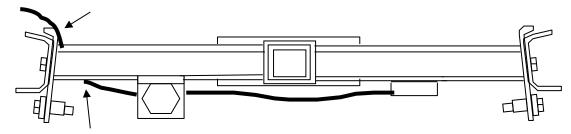
Using 4 nuts, bolts, and washers (included in wiring harness kit) mount the 7-pin connector housing to the tow hitch bracket. (the hardware may be located inside the connector housing under the flip-up cover)



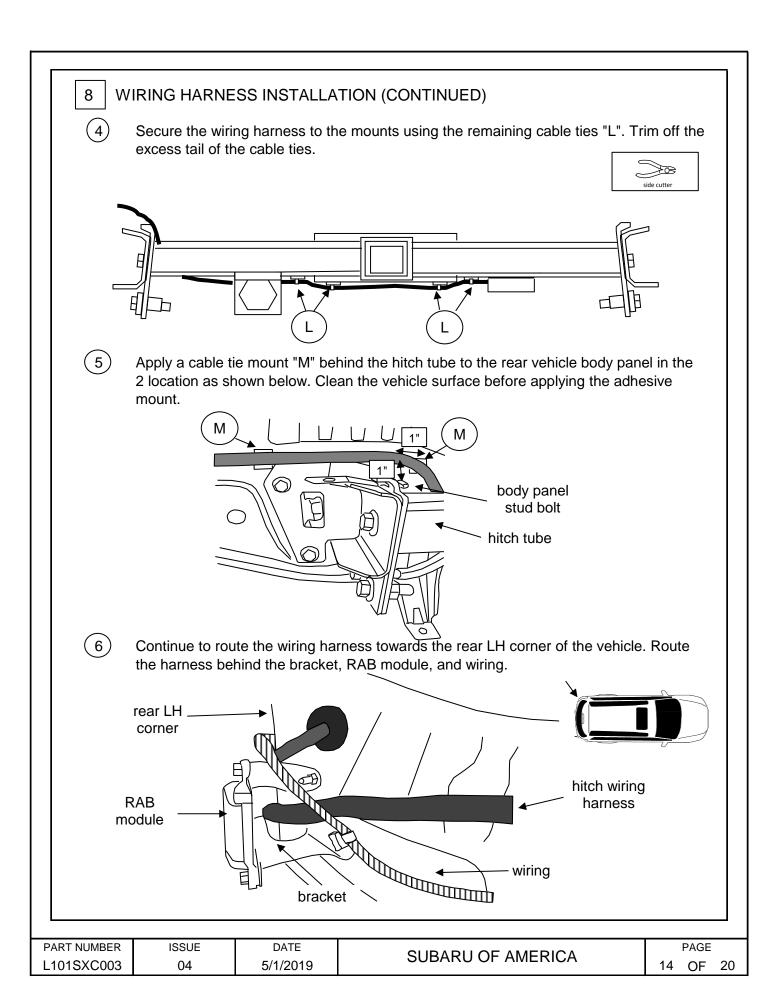
Install the 4-pin connector into the wiring harness mounting bracket on the tow hitch using the clamp bracket and hardware included in the wiring harness kit. Then plug the 7-pin connector socket into the back of the 7-pin connector



Run the wiring harness across the bottom length of the hitch tube and route it behind the tube at the LH bracket location.

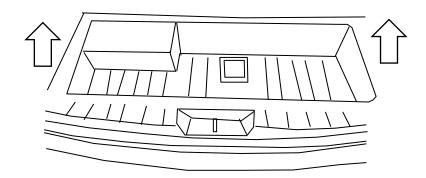


PART NUMBER	ISSUE	DATE	SUBARU OF AMERICA	ľ	PAGE	
L101SXC003	04	5/1/2019	SUBARU OF AMERICA	13	OF	20

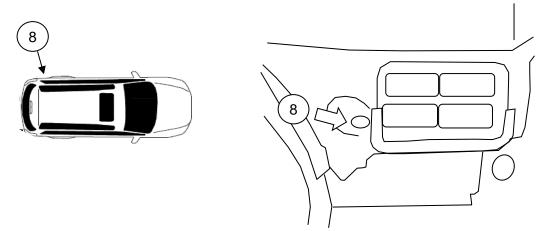




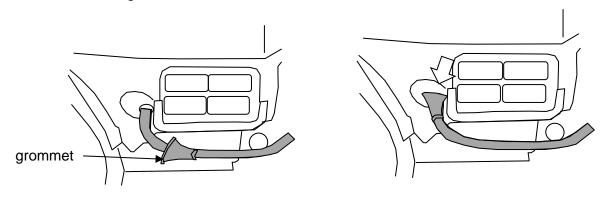
7 Remove rear cargo tray.



(8) Remove the grommet next to the air vent at the LH rear corner of the vehicle.



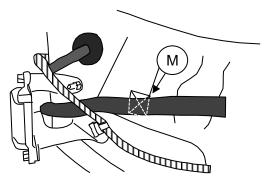
Ountinue to route the harness around the rear LH corner of the vehicle and below pressure vent. Pass the connector through the hole into the inside of the trunk well. Install the grommet into the hole.



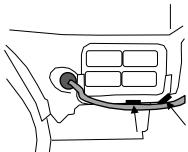
PART NUMBER	ISSUE	DATE	SUBARU OF AMERICA	PAGE
L101SXC003	04	5/1/2019	SUBARU OF AMERICA	15 OF 20

8 WIRING HARNESS INSTALLATION (CONTINUED)

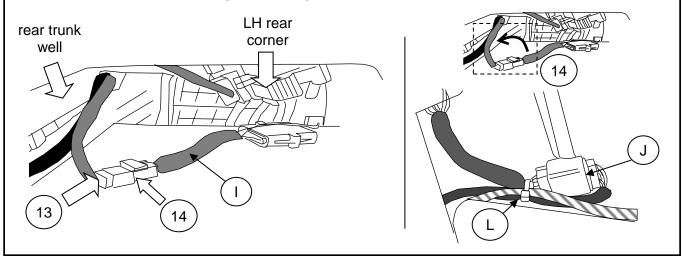
(10) Apply a cable tie mount "M" to the rear vehicle body panel in the location as shown.



(11) Apply 2 cable tie mounts "M" in the locations as shown



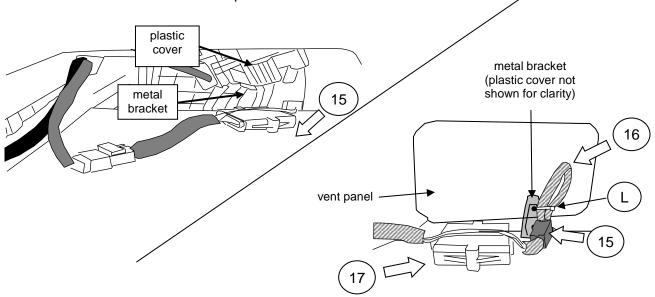
- Use 5 cable ties "L" to secure the wiring harness to the cable tie mounts "M" from steps 8-5, 8-10, and 8-11.
- (13) Inside the rear trunk well, locate the vehicle side hitch harness connector.
- Plug one end of the tow hitch wiring harness "I" into the vehicle side connector. Wrap the connector with 1 piece of foam tape "J". Loop the mated connector back onto itself and secure to existing trunk wiring with cable tie "L".



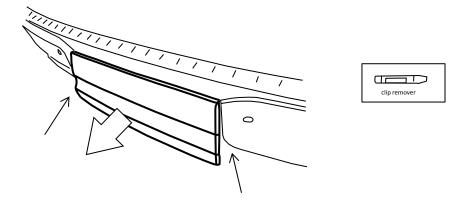
PART NUMBER	ISSUE	DATE	SUBARU OF AMERICA	PAGE
L101SXC003	04	5/1/2019	SUBARU OF AMERICA	16 OF 20



- From the inside of the trunk, connect the 2 ends of the trailer hitch wiring harness and wrap with a piece of foam tape "J".
- Loop the excess wiring harness slack back onto itself and use a cable tie "L" to secure it to the hole in the body panel bracket in front of the grill panel.
- Prepare the area in the trunk well where the control module will be installed by using sandpaper (or scouring pad) to remove the rough layer of dampening material. Once the surface is relatively smooth, remove the adhesive liner from the control module and secure it to the vehicle panel.



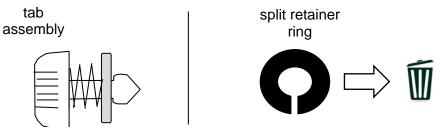
- 9 | FASTENER "N" INSTALLATION REMOVABLE CENTER COVER
- 1 Remove the the center hitch cover panel from the bumper fascia by removing (1) plastic push pins from the underside of each end. Discard the push pins.



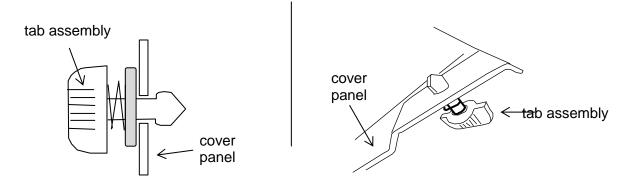
PART NUMBER	ISSUE	DATE	SUBARU OF AMERICA	PAGE
L101SXC003	04	5/1/2019	SUBARU OF AMERICA	17 OF 20

9 | FASTENER "N" INSTALLATION - REMOVABLE CENTER COVER (CONT'D)

Remove the spring loaded tab assembly and split retaining ring from small bag. Remove and discard the 2 split retainer rings.



(3) Install the tab assemblies into the center cover panel as shown.

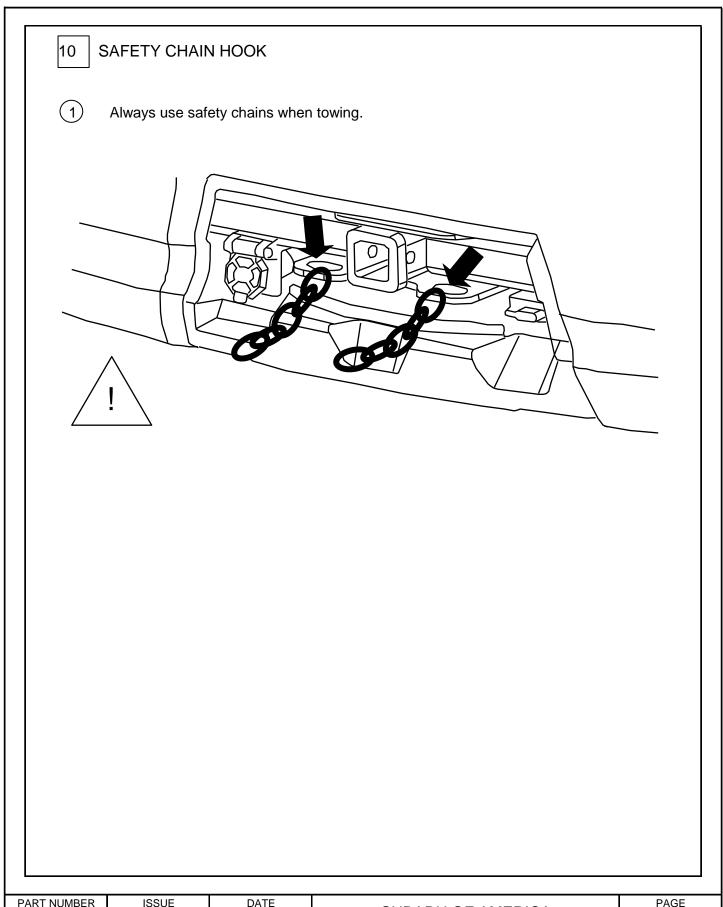


(4) Install the clip-on receptacle onto the main bumper fascia.



8 Reinstall the center cover panel onto the main bumper fascia. Turn the tab 1/4 turn to lock the cover in place.

PART NUMBER	ISSUE	DATE	SUBARU OF AMERICA	PAGE
L101SXC003	04	5/1/2019	SUBARU OF AMERICA	18 OF 20



ı	PART NUMBER	ISSUE	DATE	SUBARU OF AMERICA	PAGE
ı	L101SXC003	04	5/1/2019	SUBARU OF AIVIERICA	19 OF 20

11 INSTALLATION INSTRUCTIONS

1) These instructions are an official document and an integral part of the trailer hitch. It should be stored in a glove box all the time and handed over with the vehicle if sold.

12 REINSTALLATION OF COMPONENTS

- (1) Reconnect RAB harness
- (2) Reinstall rear bumper fascia.
- 3 Reinstall rear tail light covers.
- (4) Reinstall spare tire and related components.
- (5) Replace rear compartment cover.

13 CAUTION



- 1 For further information, read vehicle's owners manual or consult your dealer or dealer's service department.
- SUBARU accepts no liability for product defects caused by the vehicle owner or other persons and/or incorrect use.
- 3 After the first 600 miles, please consult with SUBARU dealer to re-check the tightness of Trailer Hitch bolts and/or nuts.
- For models equipped with BSD (Blind Spot Detection) and RCTA (Rear Cross Traffic Alert) driving support systems, when towing a trailer, press BSD/RCTA OFF switch to deactivate the systems. The system may not operate properly due to the blocked rader waves. For details about BSD/RCTA OFF switch, refer to the owners manual "BSD/RCTA OFF switch".
- (5) For models equipped with RAB (Reverse Automatic Braking) system, please consult with SUBARU dealer when towing a trailer.
- (6) Do not exceed 16 Amp for trailer brake circuit.
- (7) Refer to table below for towing capacity.

MODEL	MAX Tow Rating	MAX Tongue Weight	
Base	2000 lbs.	200 lbs.	
Premium, Limited, Touring	5000 lbs.	500 lbs.	

Consult owner's manual for recommended towing procedures.

PART NUMBER	ISSUE	DATE	SUBARU OF AMERICA	PAGE
L101SXC003	04	5/1/2019	SUBARU OF AMERICA	20 OF 20