

**SUBARU**

INSTALLATION INSTRUCTIONS

PART NUMBER: L101SAN000

DESCRIPTION: 2020 OUTBACK
TRAILER HITCH**PLEASE READ THIS INSTRUCTIONS CAREFULLY, BEFORE YOU START
INSTALLATION**

SAFETY PRECAUTION: When installing Trailer Hitch, the use of safety glasses 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. For further information, read vehicle's owner manual or consult your dealer or dealer's service department.
17. After trailer hitch has been used, retighten all mounting bolts and nuts after the first 600 miles of towing use. (Observe correct tightening torque)
18. When installing this trailer hitch on the Outback Wilderness, the Trailer Hitch Fascia Panel, part number L101SAN610, is required.
19. When installing this trailer hitch on the Outback Wilderness use the cutting template provided with the part, Trailer Hitch Fascia Panel, part number L101SAN610
20. Subaru accepts no liability for product defects caused by the vehicle owner or other persons and/or incorrect use.

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.

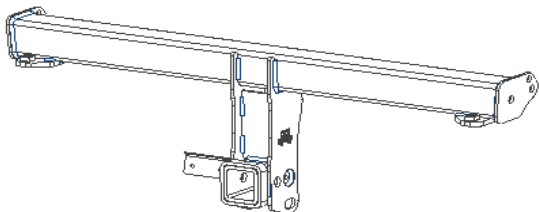
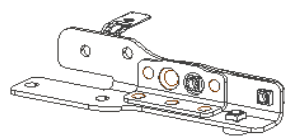
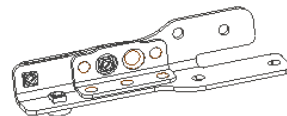
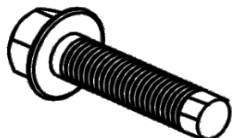
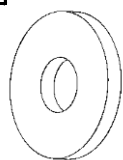
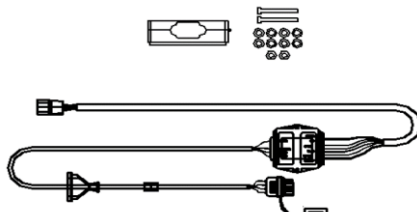
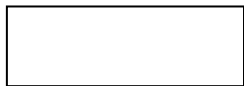
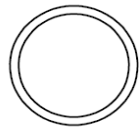
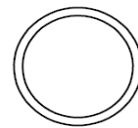
Please put installation instruction in glove box once installation is complete.

PART NUMBER
L101SAN000ISSUE
6DATE
8/23/2022

SUBARU OF AMERICA

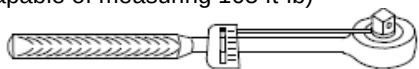
PAGE
1 OF 33

KIT CONTENTS:

A  x1	B  LH x1	C  RH x1		
D  M12 Hex Flange Bolt x14	E  Flat Washer x6	F  Wiring Harness x1		
G  Cable Tie - 8" x3	H  Cable Tie - 18" x3	I  Foam Tape x2		
J  Cable Tie Mount x3	K  Bumper Trim x1	L THIS NUT HAS 3 RECTANGLE SHAPED POCKETS ON THE FACE (14mm hex)   SELF-LOCKING EXHAUST NUT (SILVER, SMALLER FLANGE) X4		
M  Turbo - Exhaust Gasket x2	N  NA - Exhaust Gasket x1	O  RECEIVER PLUG x1		
PART NUMBER L101SAN000	ISSUE 6	DATE 8/23/2022	SUBARU OF AMERICA	PAGE 2 OF 33

TOOLS REQUIRED:

1/2" and/or 3/8" drive torque wrench(es)
(capable of measuring 105 ft-lb)



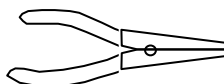
7mm socket



1/2" and 3/8" drive ratchet



Needle nose pliers



Flat head screwdriver



6" socket extension



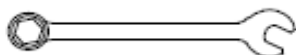
Phillips head screwdriver



touch up paint



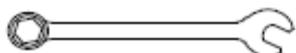
7 mm open end wrench



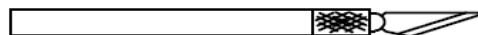
side cutter



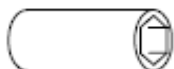
14mm open end wrench



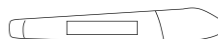
UTILITY KNIFE



19mm deep well socket



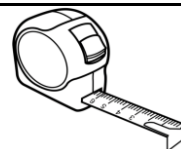
clip remover



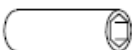
17mm deep well socket



Tape measure or similar measuring device.



14mm deep well socket

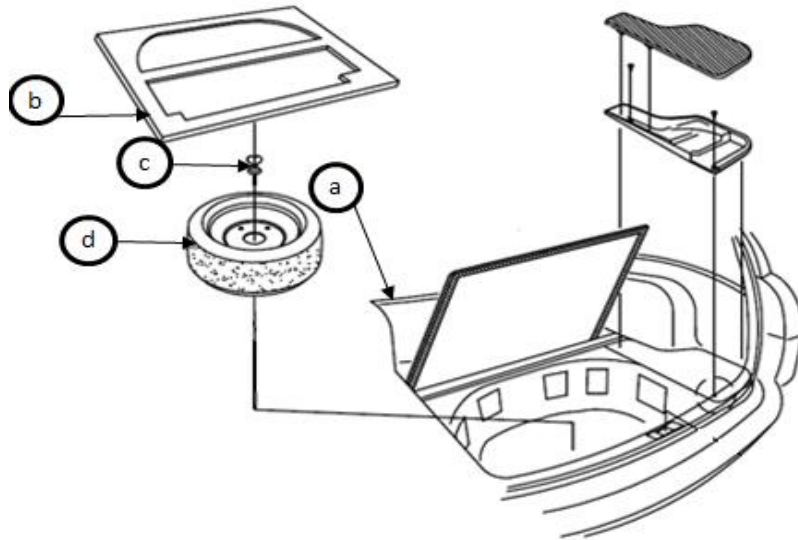


10mm socket



REMOVE REAR PANEL AND LOWER SPARE TIRE

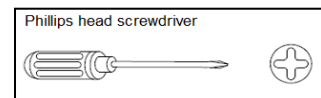
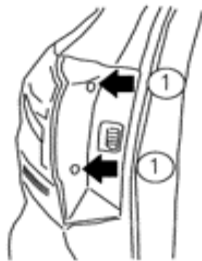
PREPARATION: WEAR SAFETY GLASSES



- a) Raise and remove the carpeted spare tire compartment cover.
- b) Remove foam center panel.
- c) Unscrew and remove tire thumbscrew.
- d) Remove spare tire.

REMOVE REAR TAIL LIGHTS

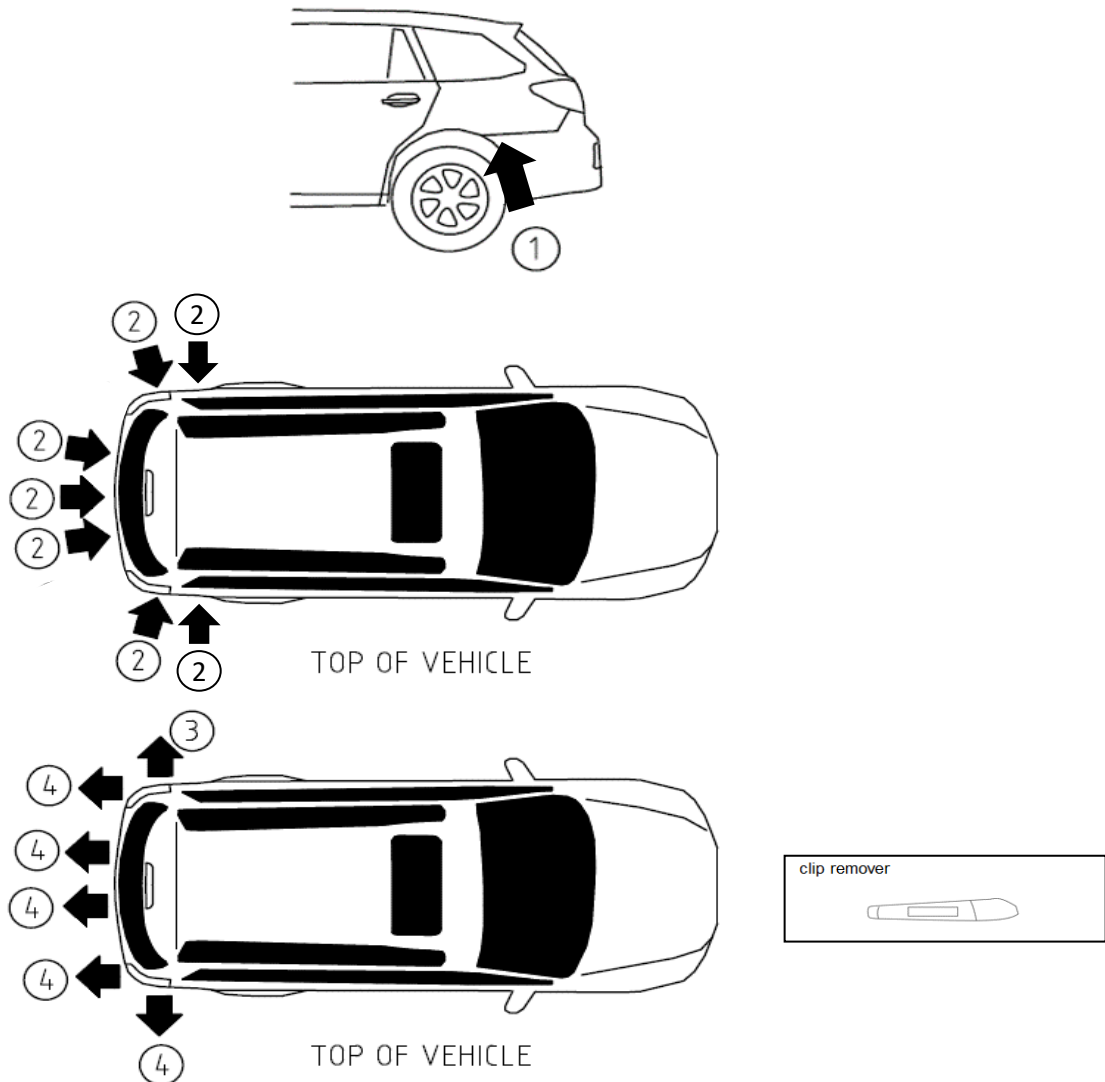
- 1) USING A SMALL PHILLIPS HEAD SCREWDRIVER, REMOVE (2) TAIL LIGHT COVERS ON EACH SIDE.
- 2) USING 10mm SOCKET, REMOVE 2 BOLTS TO REMOVE TAIL LIGHT ASSEMBLY, REMOVE THE ASSEMBLY BY PULLING STRAIGHT BACK. (REPEAT FOR BOTH SIDES)



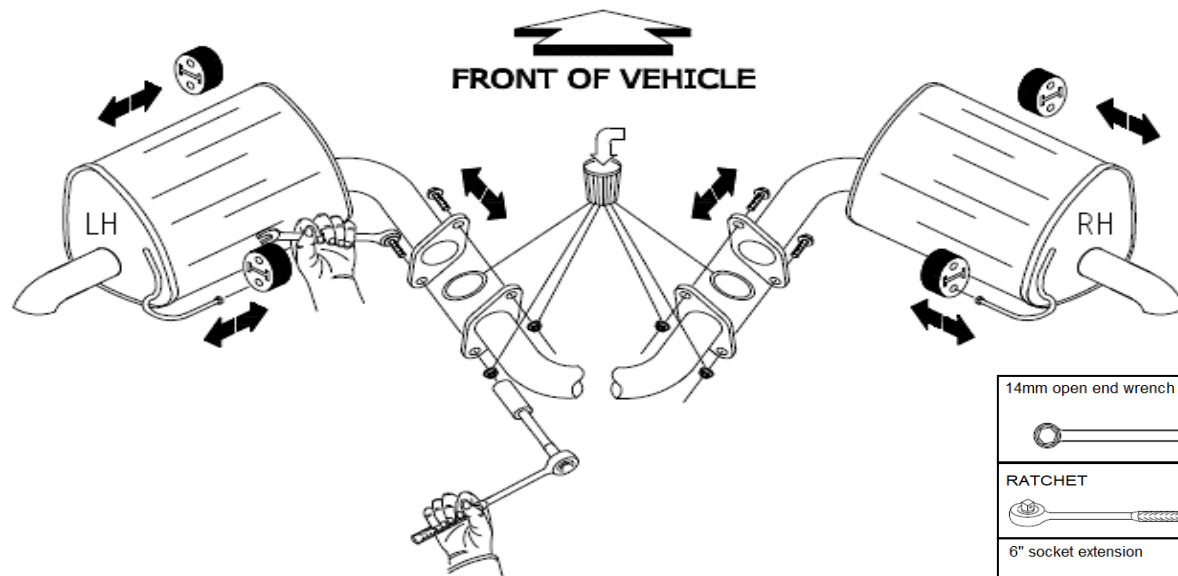
- 4) CAREFULLY SET ASIDE THE FASTENERS SO THEY WILL NOT BE DAMAGED.

REAR BUMPER FASCIA REMOVAL

- 1) WITH A SCREWDRIVER, RELEASE (1) SMALL PUSH BUTTON FASTENER PER SIDE ON THE LEFT AND RIGHT SIDE OF THE FASCIA WHEEL WELL. USE THE TIP OF THE SCREWDRIVER TO PUSH THE CENTER OF THE PIN IN.
- 2) WITH A SMALL FLAT HEAD SCREWDRIVER, REMOVE (7) LARGE PUSH PIN FASTENERS ACROSS THE LENGTH OF THE BUMPER.
- 3) STARTING AT THE LH SIDE REAR WHEEL, USING BOTH HANDS, PULL ONE SIDE OF THE FASCIA OUT FROM THE VEHICLE.
- 4) CONTINUE AROUND THE REAR LH SIDE. AT THE REAR CORNER, BEGIN TO PULL REARWARD AND WORK ACROSS THE VEHICLE FROM LEFT TO RIGHT TO REMOVE THE ENTIRE BUMPER.
- 5) FULLY RELEASE THE BUMPER FROM THE VEHICLE BODY.
- 6) LAY FASCIA ASIDE WHERE IT WILL NOT BE DAMAGED DURING HITCH INSTALLATION.



MUFFLER(S) REMOVAL

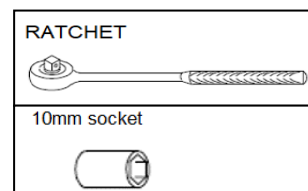
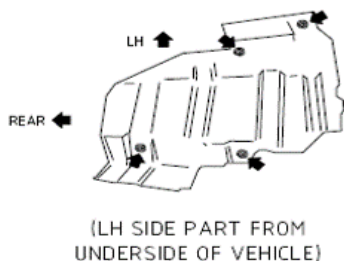


14mm open end wrench
RATCHET
6" socket extension
14mm deep well socket

- 1) UNBOLT MUFFLERS FROM EXHAUST PIPES (4 LOCATIONS) WITH 14 MM OPEN END WRENCH AND SOCKET.
- 2) DISCARD THE (2) EXHAUST GASKETS AND (4) LOCK NUTS.
- 3) REMOVE MUFFLERS BY FIRST DISENGAGING THE REARMOST EXHAUST HANGER, THEN DISENGAGING THE FORWARDMOST EXHAUST HANGER.
- 4) PUT MUFFLERS ASIDE FOR LATER REINSTALLATION.

HEAT SHIELD REMOVAL

- 1) REMOVE 4 HEAT SHIELD BOLTS AND THEN REMOVE HEAT SHIELD. RETAIN BOLTS AND HEAT SHIELD FOR RE-INSTALLATION.
- 2) REMOVE THE 3 PLUGS FROM EACH LH AND RH SIDE.



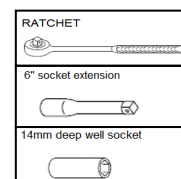
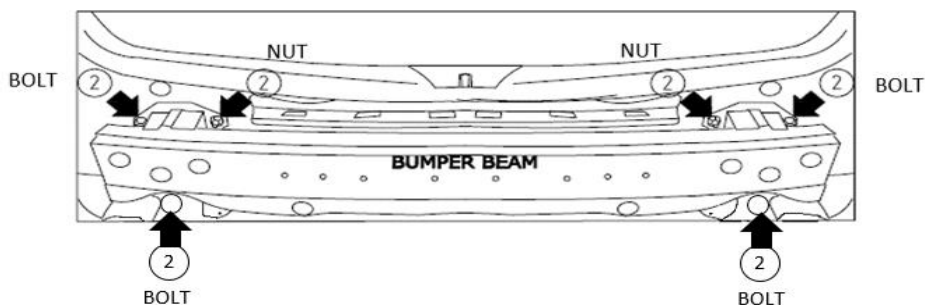
REMOVE BUMPER BEAM

- 1) REMOVE THE CONNECTOR FROM THE WIRELESS REMOTE ANTENNA ON THE LEFT SIDE OF THE BUMPER.



- 2) REMOVE AND DISCARD THE FOAM PIECE.
- 3) REMOVE (4) BUMPER BEAM NUTS FROM THE STUD BOLTS ON THE END OF THE FRAME. THE TOP BOLTS CAN BE ACCESSED THROUGH TOOLING HOLES IN THE BUMPER BEAM.

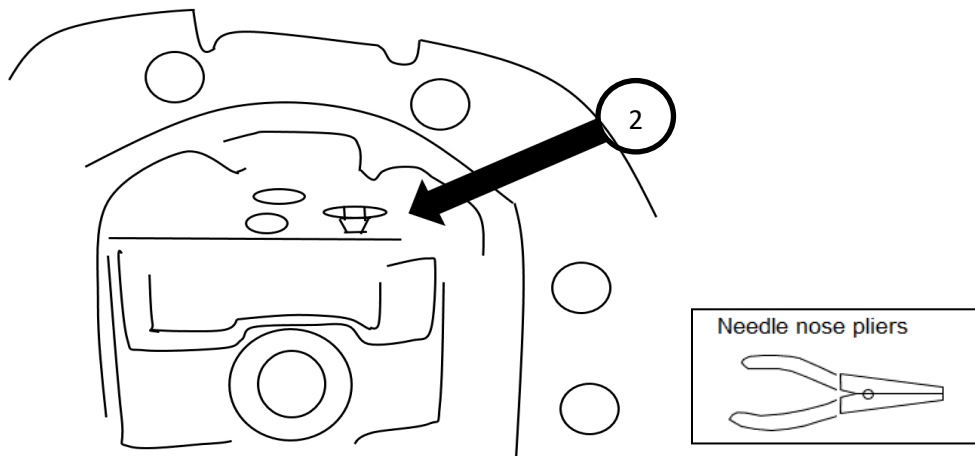
NOTE: HOLD THE BUMPER BEAM WITH ONE HAND WHILE TAKING OFF THE LAST NUT SO IT DOES NOT FALL IN THE REMOVAL PROCESS.



- 4) THE NUTS AND BOLTS WILL BE REINSTALLED ONCE THE BUMPER IS REMOVED

Removal of the Keyless Entry Antenna

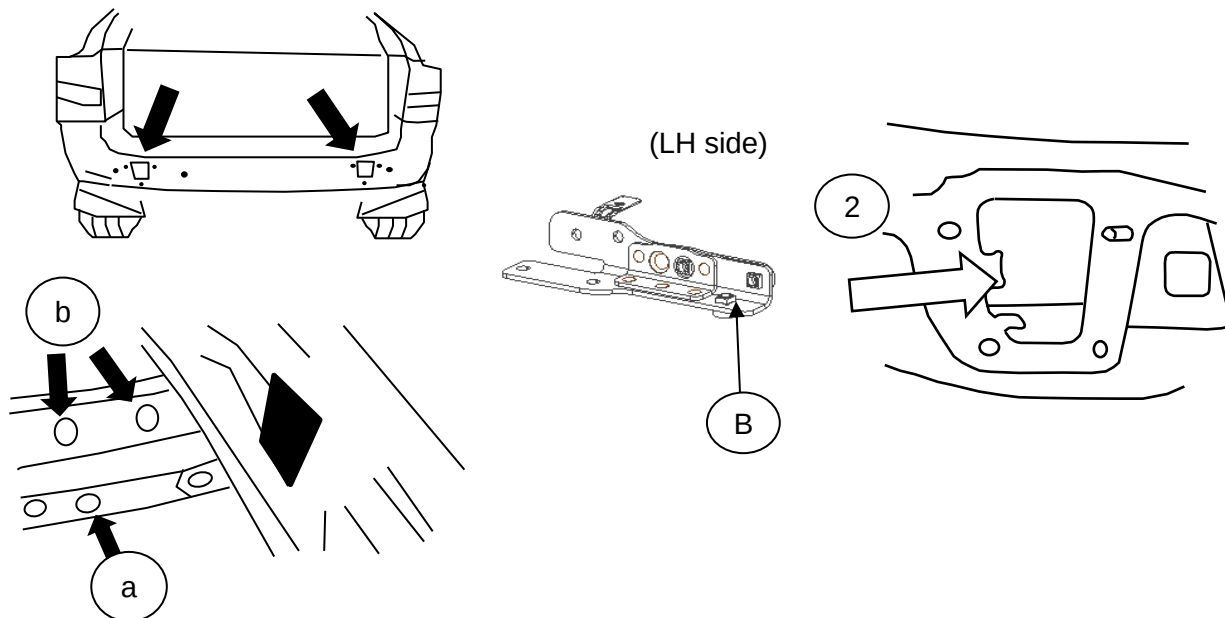
- 1) REMOVE THE ANTENNA WHILE PUSHING THE NAIL OF THE CLIP WITH THE NEEDLE NOSE PLIERS FROM THE BUMPER BEAM MOUNTING SIDE.



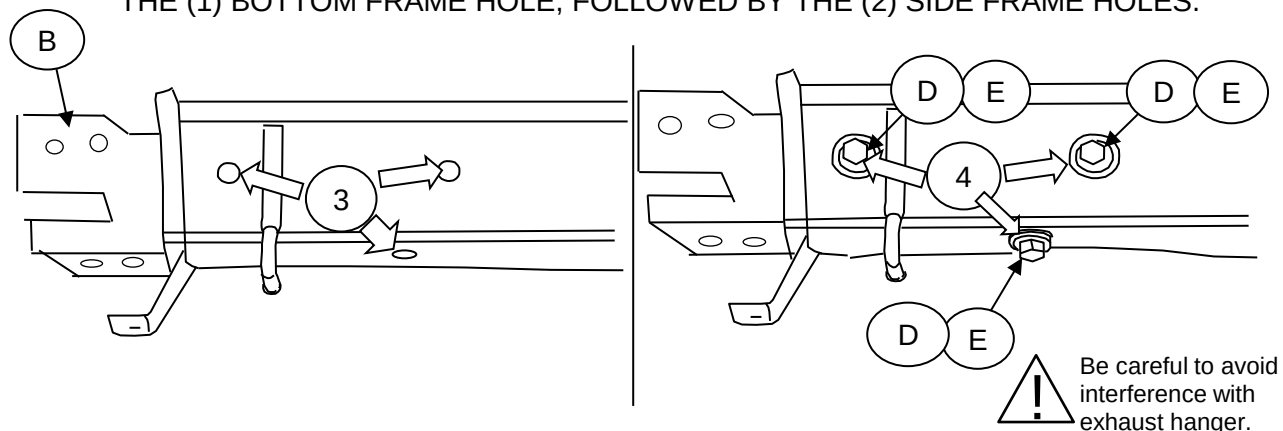
- 2) RECYCLE OR DISCARD BUMPER BEAM

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

- 1) PLACE LH WELDED BRACKET ASSEMBLY "B" INTO SIDE FRAME HOLE OPENING.



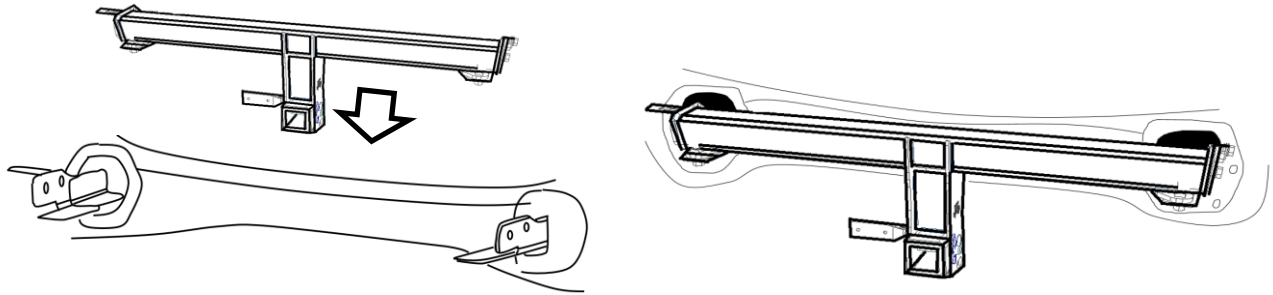
- 3) ALIGN THE BRACKET HOLES WITH THE HOLES IN THE FRAME RAIL.
- 4) LOOSELY INSTALL (3) M12 BOLTS "D" AND WASHERS "E" FIRST THROUGH THE (1) BOTTOM FRAME HOLE, FOLLOWED BY THE (2) SIDE FRAME HOLES.



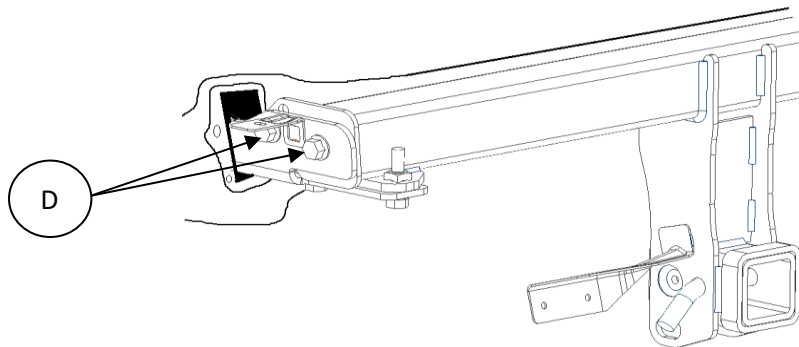
- 5) REPEAT STEPS #2 THROUGH #4 FOR THE RH SIDE BRACKET ASSEMBLY "C".

INSTALL MAIN HITCH MEMBER - PART "A"

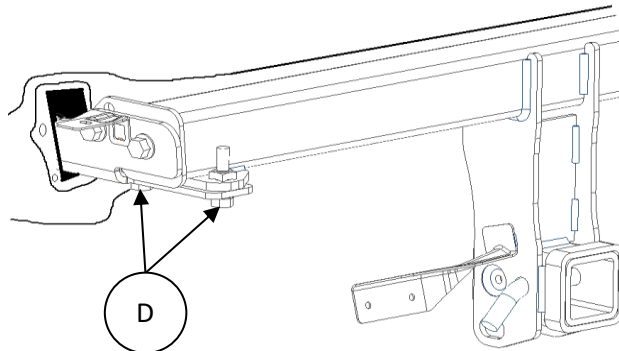
- 1) Install the main hitch "A" between the LH and RH frame bracket assemblies "B".



- 2) Loosely install (2) M12 bolt "D" and on each side through the top hole in LH/RH bracket.

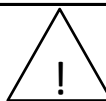


- 3) Loosely install (2) M12 bolts "D" on each side through the bottom holes in bracket.

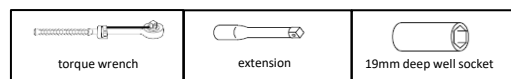


- 4) Hand tighten all (7) M12 bolts on each side.

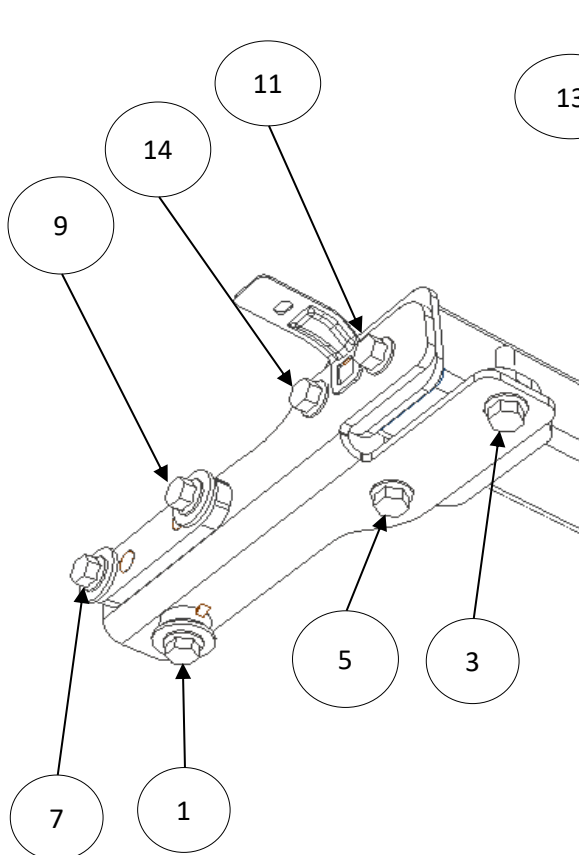
FASTENER TORQUE VALUES



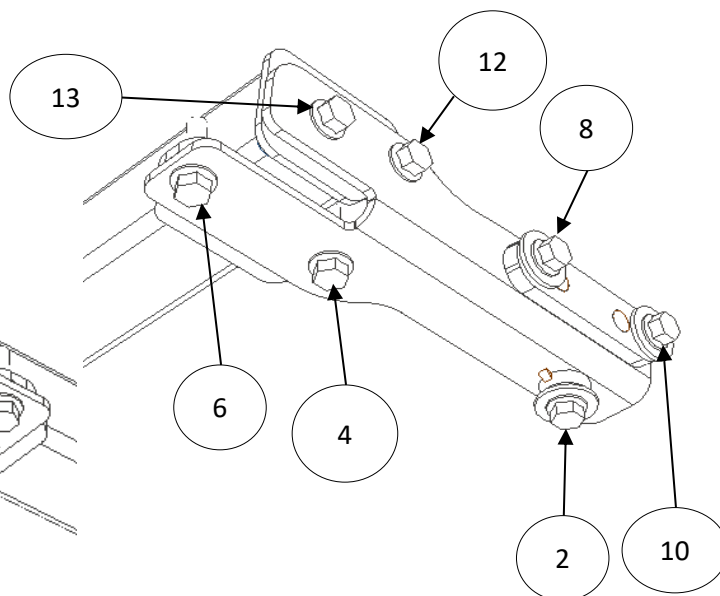
a) Torque all fasteners in the order and to the torque values as shown in the table



RIGHT HAND SIDE BRACKET OF HITCH



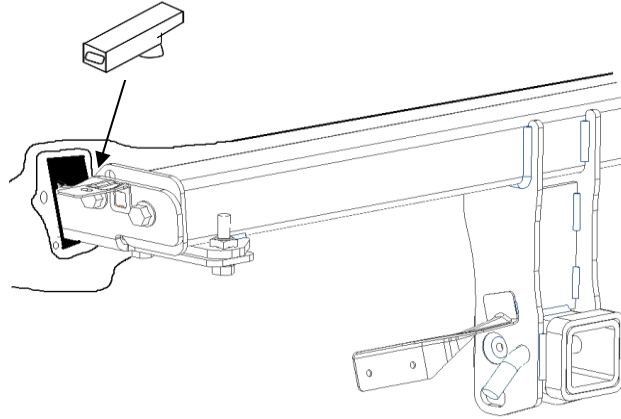
LEFT HAND SIDE BRACKET OF HITCH



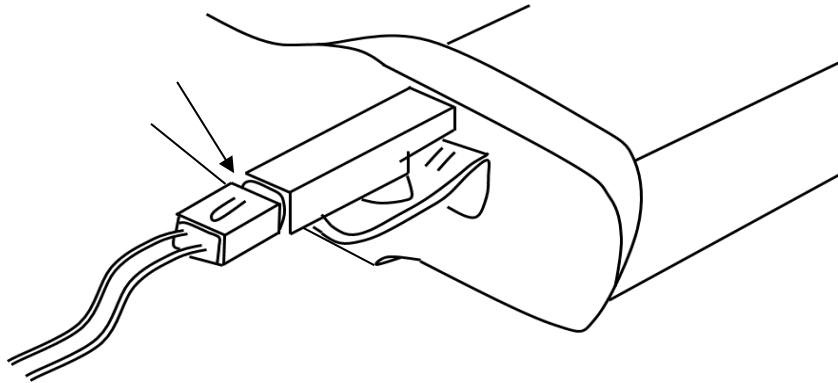
ORDER	T (Nm)	T (ft-lbs.)
1	104.4	77.00
2	104.4	77.00
3	104.4	77.00
4	104.4	77.00
5	104.4	77.00
6	104.4	77.00
7	104.4	77.00
8	104.4	77.00
9	104.4	77.00
10	104.4	77.00
11	104.4	77.00
12	104.4	77.00
13	104.4	77.00
14	104.4	77.00

INSTALL ANTENNA IN LH BRACKET

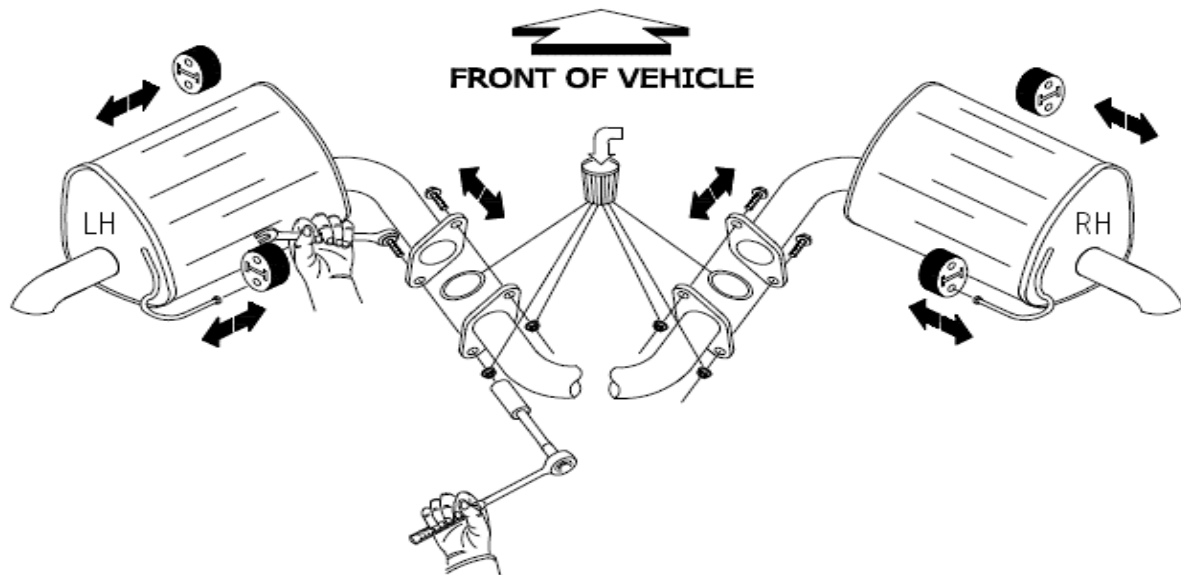
- 1) TAKE THE ANTENNA THAT WAS REMOVED AND INSTALL INTO THE LEFT HAND BRACKET AFTER HITCH IS INTALLED. ENSURE CLIP IS PUSHED THROUGH AND SECURE.



- 2) PLUG CONNECTOR INTO ANTENNA.



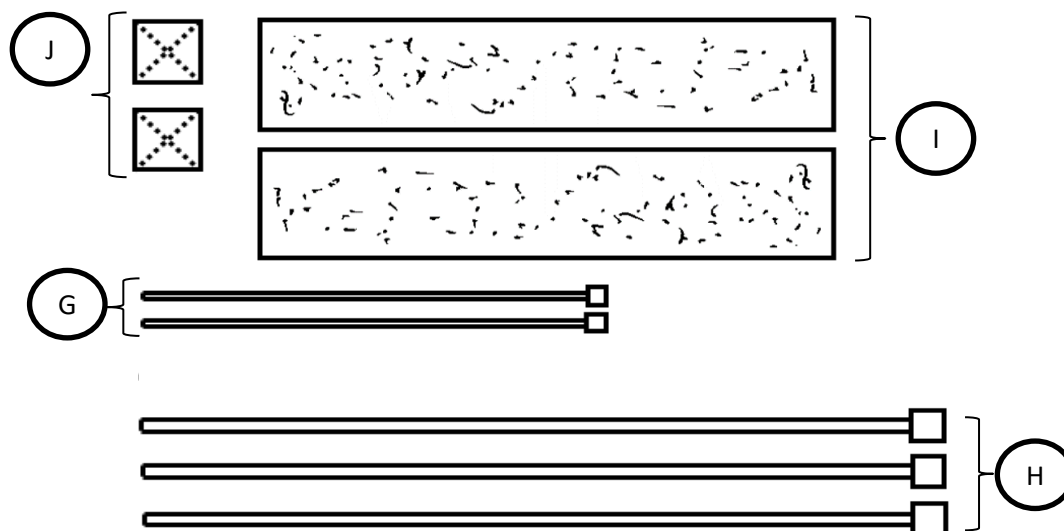
RE-INSTALL MUFFLERS



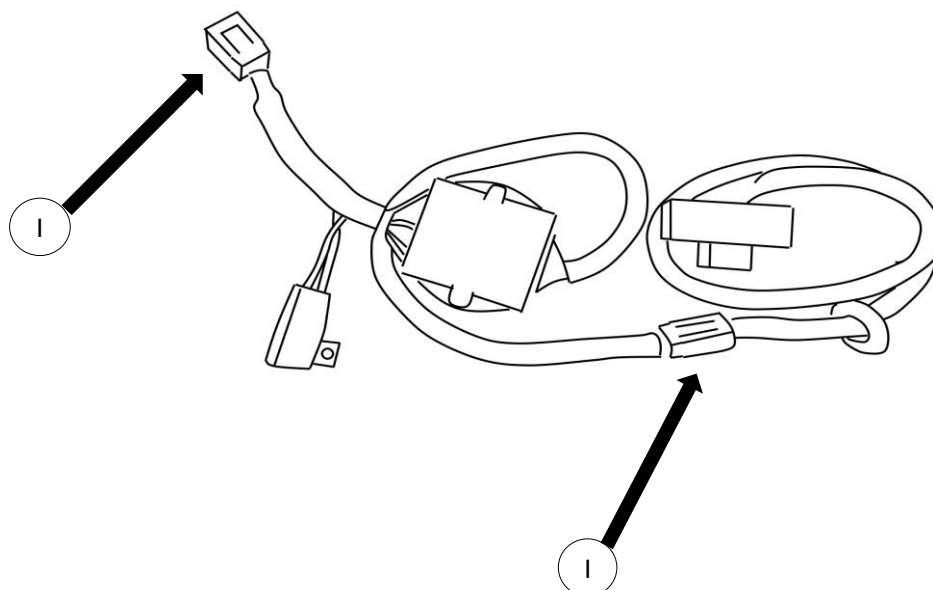
- 1) IDENTIFY THE CORRECT SIZED EXHAUST GASKET TO BE USED FOR THE RE-INSTALLATION PROCESS. INSTALL GASKETS ONTO EXHAUST.
- 2) ENGAGE THE FORWARD MOST EXHAUST HANGER, THEN ENGAGE THE REAR EXHAUST HANGER FOR EACH SIDE.
- 3) BOLT THE MUFFLERS TO THE EXHAUST PIPES (4 LOCATIONS) WITH 14 mm OPEN END WRENCH AND SOCKET.

WIRE HARNESS INSTALLATION AND MOUNTING PROCEDURE

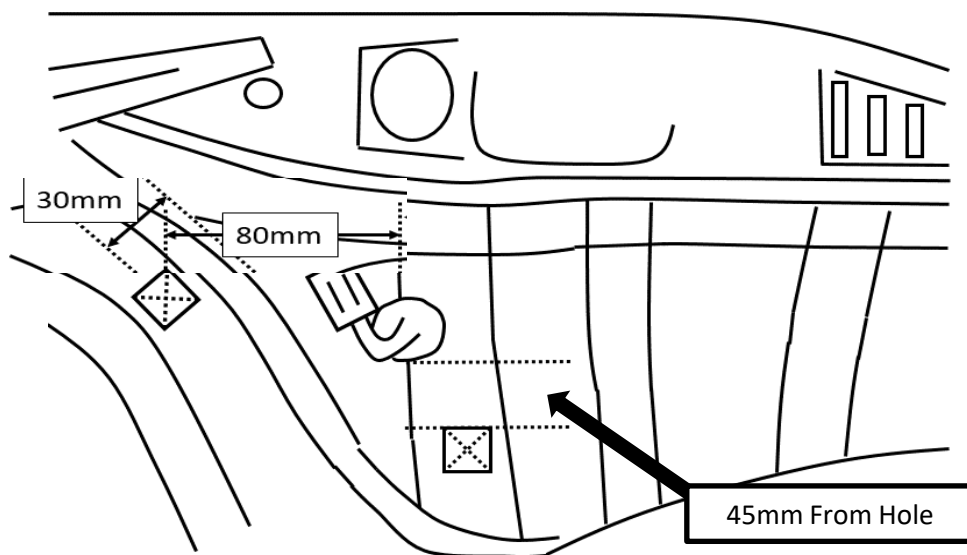
1) PARTS NECESSARY FOR HARNESS FIXING



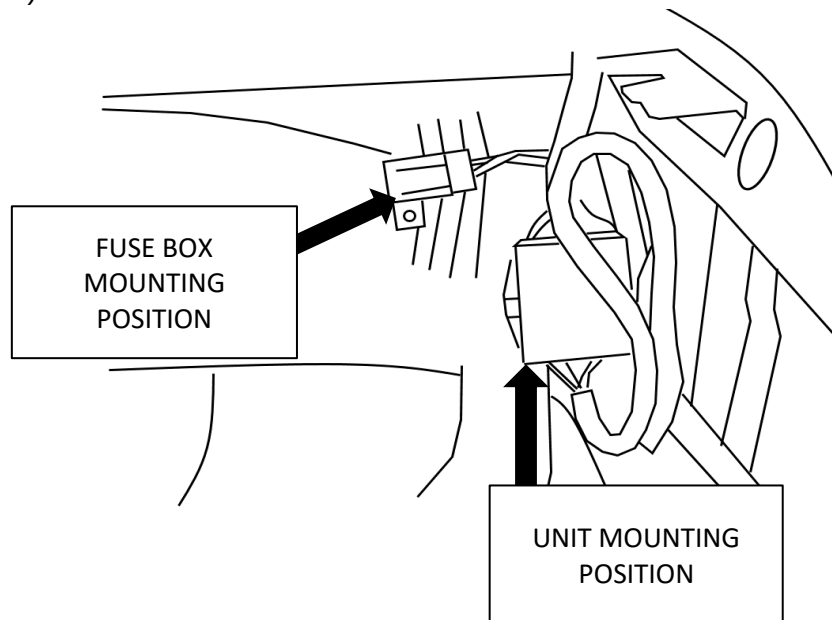
2) ONCE THE WIRE HARNESS IS ROUTED THROUGH THE BULK-HEAD
WRAP THE CONNECTORS WITH THE URETHANE FOAM TAPE AFTER
ATTACHING CONNECTORS TO VEHICLE WIRE HARNESS.



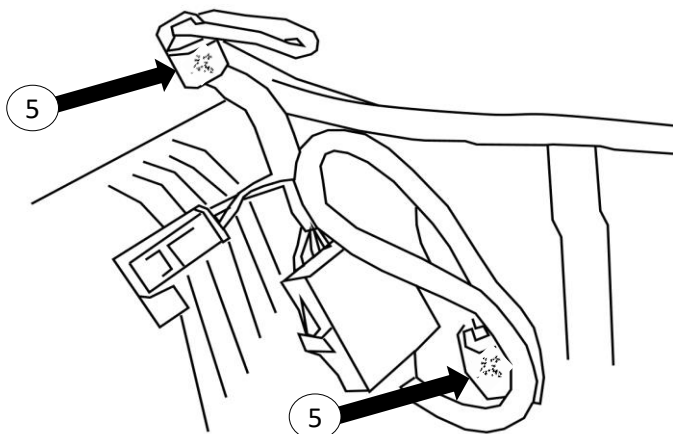
3) PASTE CABLE TIE MOUNTS WHERE MARKED



4) ATTACH UNIT AND FUSE BOX TO CAR BODY



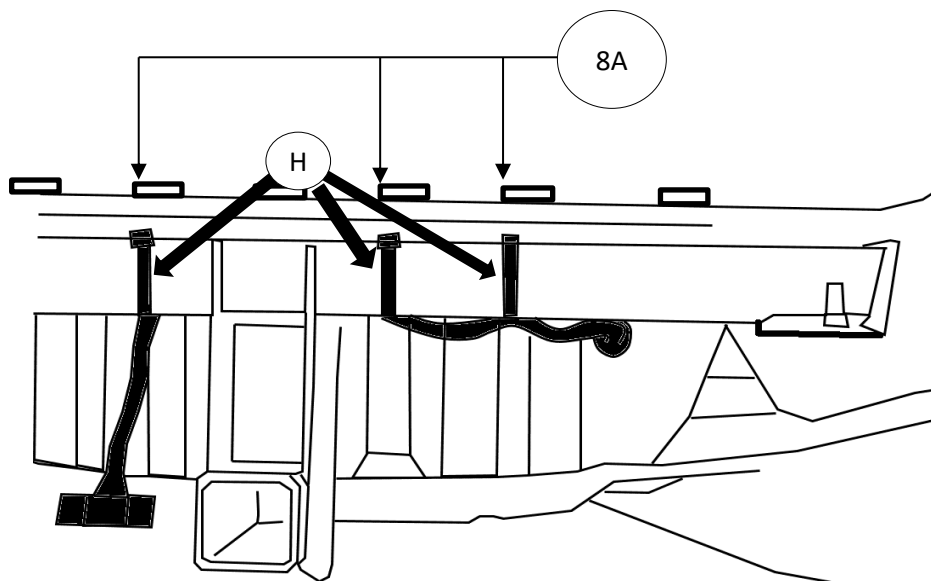
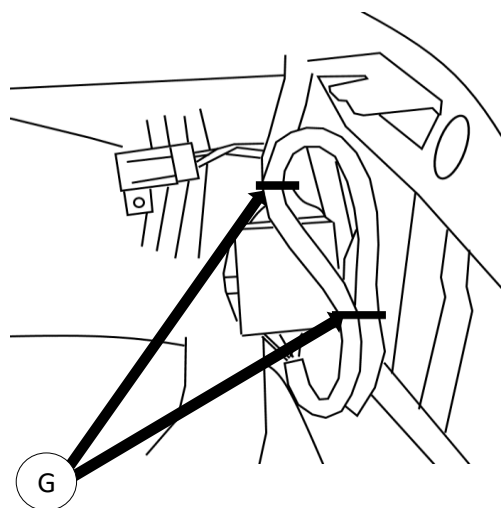
5) CONNECT WITH VEHICLE SIDE WIRE HARNESS.



6) SECURE WIRING WITH TIE WRAPS

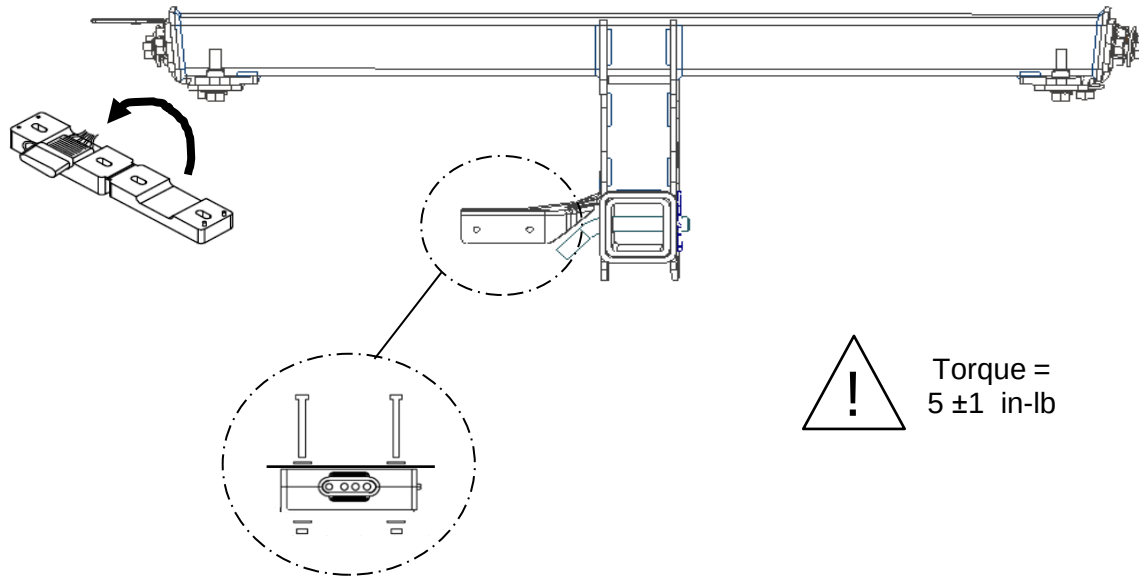
7) BOLT THE CONNECTOR MOUNT TO THE HITCH
AND INSTALL THE 4-PIN CONNECTOR TO MOUNT.
CONNECT WIRING HARNESS TO VEHICLE SIDE
CONNECTOR.

8) SECURE HARNESS TO THE TUBE WITH TIE
WRAPS (H) SO THAT THERE IS NO SLACK
IN HARNESS, ALIGN TIES WITH TABS ON
VEHICLE (8A)



WIRING HARNESS INSTALLATION CONTINUED

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.



Torque =
 5 ± 1 in-lb

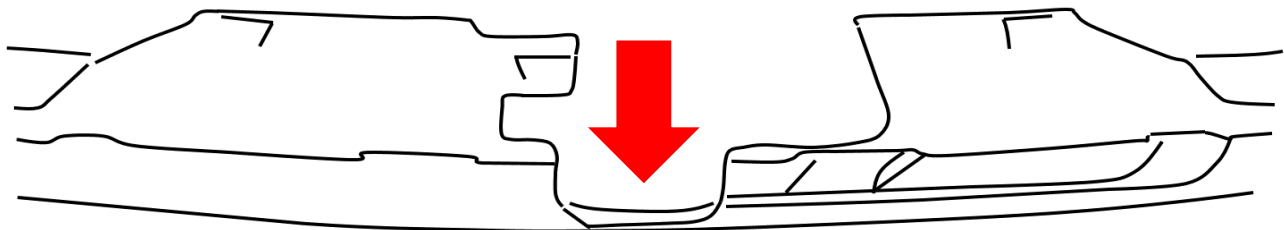
MODIFYING THE REAR BUMPER FASCIA

(NOTE: Do not use the cutting template included with these instructions for trailer hitch installations on the Outback Wilderness. Use the cutting template provided with the Trailer Hitch Fascia Panel, part number L101SAN610)

- 1) CAREFULLY MAKE FASCIA CUT. (SEE PAGES 22-32 FOR DETAILS)

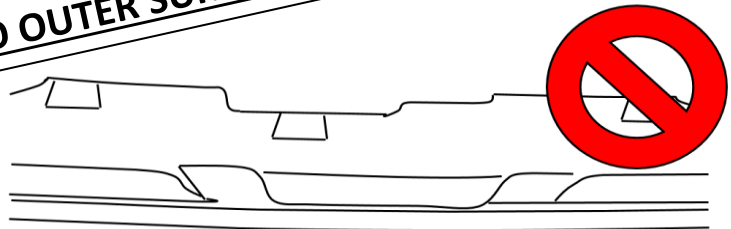
DO NOT APPLY TEMPLATE ON OUTER SURFACE, TEMPLATE WILL NOT FIT CORRECTLY.

- 2) REMOVE ALL BURRS AND ROUGH EDGES AFTER THE CUT IS MADE.



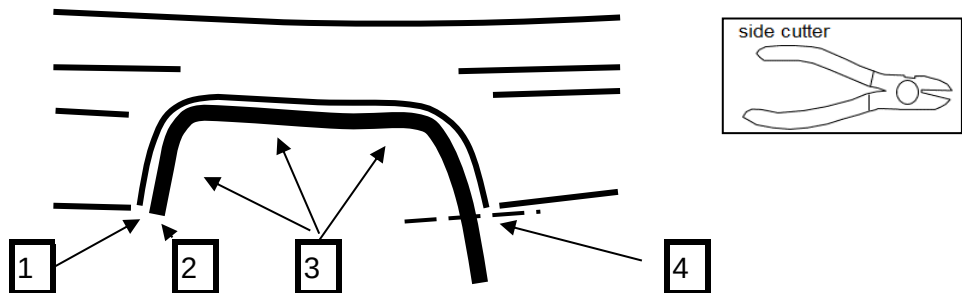
IT IS NOT POSSIBLE TO CUT THE BUMPER AND COVER TOGETHER

DO NOT APPLY TEMPLATE TO OUTER SURFACE



INSTALL RUBBER TRIM GASKET

- 1) MAKE SURE THE STARTING END HAS A 90° EDGE.
- 2) STARTIN AT THE END OF THE OPENING, CAREFULLY SLIDE THE GASKET ALONG THE CUT EDGE.
- 3) CONTINUE TO WRAP AROUND THE OPENING, BEING SURE TO CREATE A SMOOTH JOINT AS YOU INSTALL.
- 4) ONCE GASKET IS IN PLACE, TRIM EXCESS LENGTH SO THAT IT IS EVEN WITH THE EDGE OF FASCIA.



REINSTALLATION OF COMPONENTS

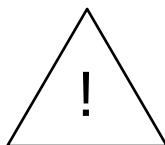
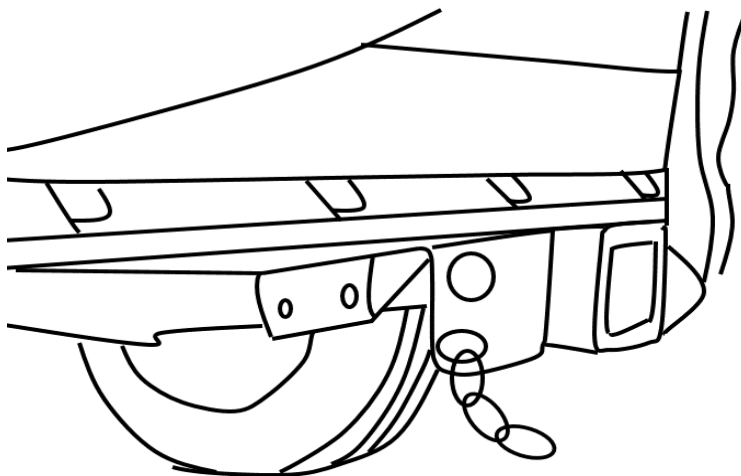
- 1) REINSTALL HEAT SHIELDS. TORQUE TO 10 Nm (90 in-lbs.)
- 2) REINSTALL THE MUFFLERS USING THE SELF LOCKING NUTS AND THE EXHAUST GASKETS SUPPLIED. TORQUE THE EXHAUST NUTS TO 48 ± 5 Nm (35 ± 4 ft-lbs)

NOTES: SINGLE EXHAUST WILL USE 2 NUTS AND 1 GASKET, DUAL EXHAUST WILL USE 4 NUTS AND 2 GASKETS. THE EXHAUST GASKETS ARE DIFFERENT SIZES AND SHOULD BE VERIFIED PRIOR TO INSTALL

- 3) REINSTALL REAR BUMPER FASCIA.
- 4) REINSTALL REAR TAIL LIGHT ASSEMBLIES. TORQUE TO 7 Nm (5 ft-lbs)
- 5) REINSTALL REAR TAIL LIGHT COVERS
- 6) REINSTALL SPARE TIRE AND RELATED COMPONENTS.
- 7) REPLACE REAR COMPARTMENT COVER.

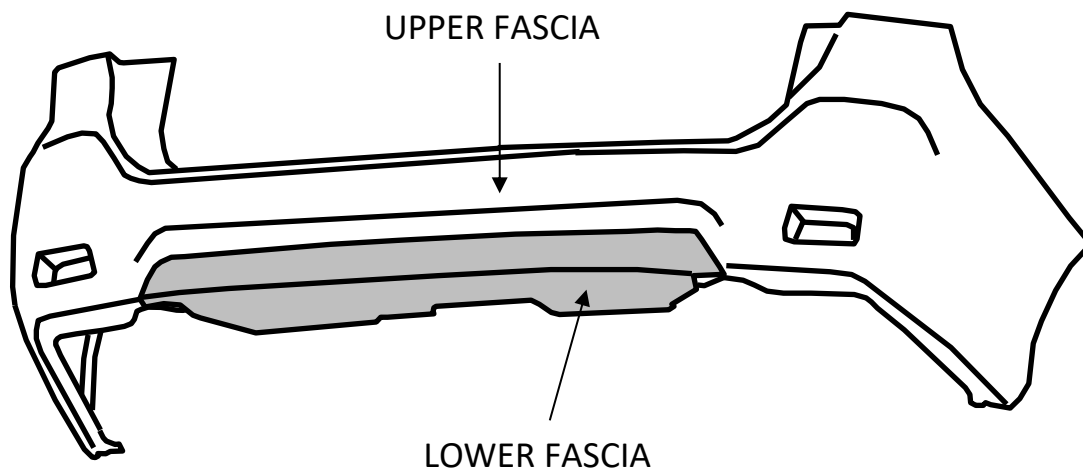
SAFETY CHAIN HOOK

- ① Always use safety chains when towing.

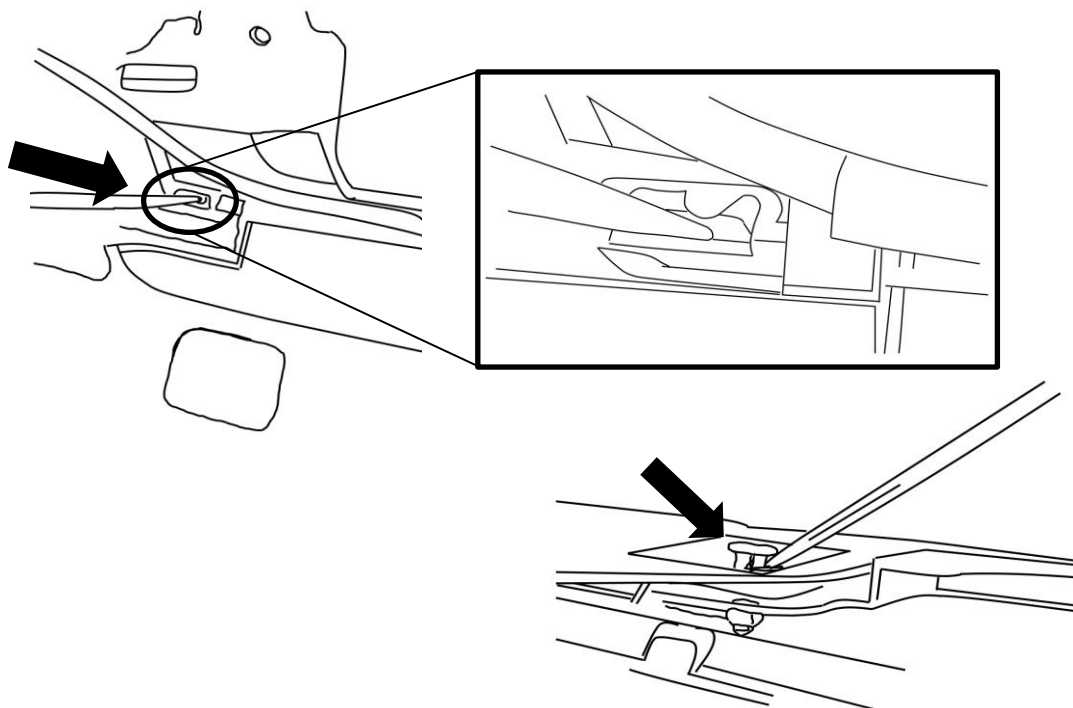


SEPARATING UPPER AND LOWER FASCIA

- 1) PRIOR TO TAPING THE TEMPLATE TO THE INSIDE SURFACE OF THE FASCIA FOR CUTTING, THE UPPER AND LOWER FASCIA PIECES NEED TO BE SEPARATED. THIS ALLOWS FOR CUTTING OF EACH FASCIA WITHOUT INTERFERENCE OR DAMAGE ON THE OTHER PART.



- 2) LOCATE THE RETAINING CLIPS FOR THE LOWER FASCIA AND RELEASE THEM USING A SCREWDRIVER TO LIFT THE RETAINING TAB AND PUSHING THE CLIP THROUGH. LOCATE THE CLIPS AND UNSNAP THE CONNECTING CLIPS WITH A SCREWDRIVER. BE CAREFUL NOT TO DAMAGE THE CLIP FOR THE RE-ASSEMBLY STEP.



TEMPLATE APPLICATION AND FASCIA CUTTING

- 3) USE THE TEMPLATES AND FOLLOW THE INSTRUCTIONS ON THE FOLLOWING PAGES TO CUT THE HITCH OPENINGS ON THE UPPER AND LOWER FASCIAS.

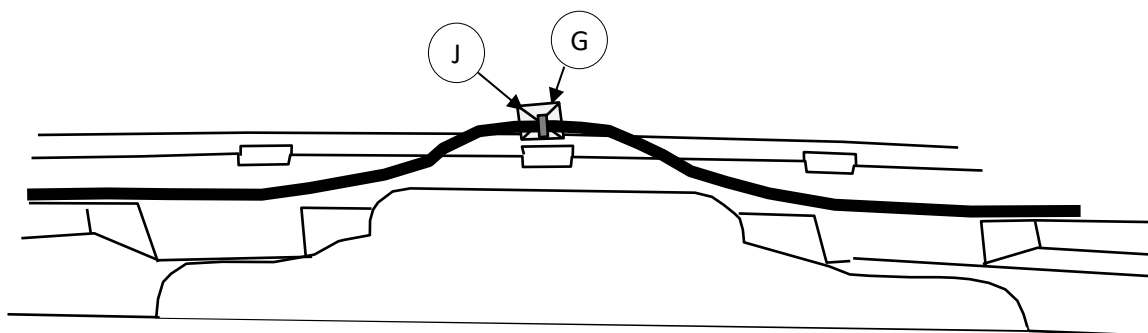
USE THE TABLE BELOW TO SELECT THE CORRECT TEMPLATES AND CUTS TO BE MADE BASED ON VEHICLE MODEL YEAR.

MODEL YEAR	20 - 22	23 -
LOWER FASCIA	pgs 24-28	
UPPER FASCIA	pg 33	pgs 29-32

- 4) AFTER CUTTING BOTH THE UPPER AND LOWER FASCIAS HAS BEEN COMPLETED, RECONNECT THE 2 PIECES BACK TOGETHER

5) **FOR MODEL YEAR 23- VEHICLES ONLY**

APPLY A CABLE TIE MOUNT (J) JUST ABOVE THE CENTER CLIP AND USE A CABLE TIE (G) TO SECURE THE RAB SENSOR WIRE AWAY FROM THE OPENING

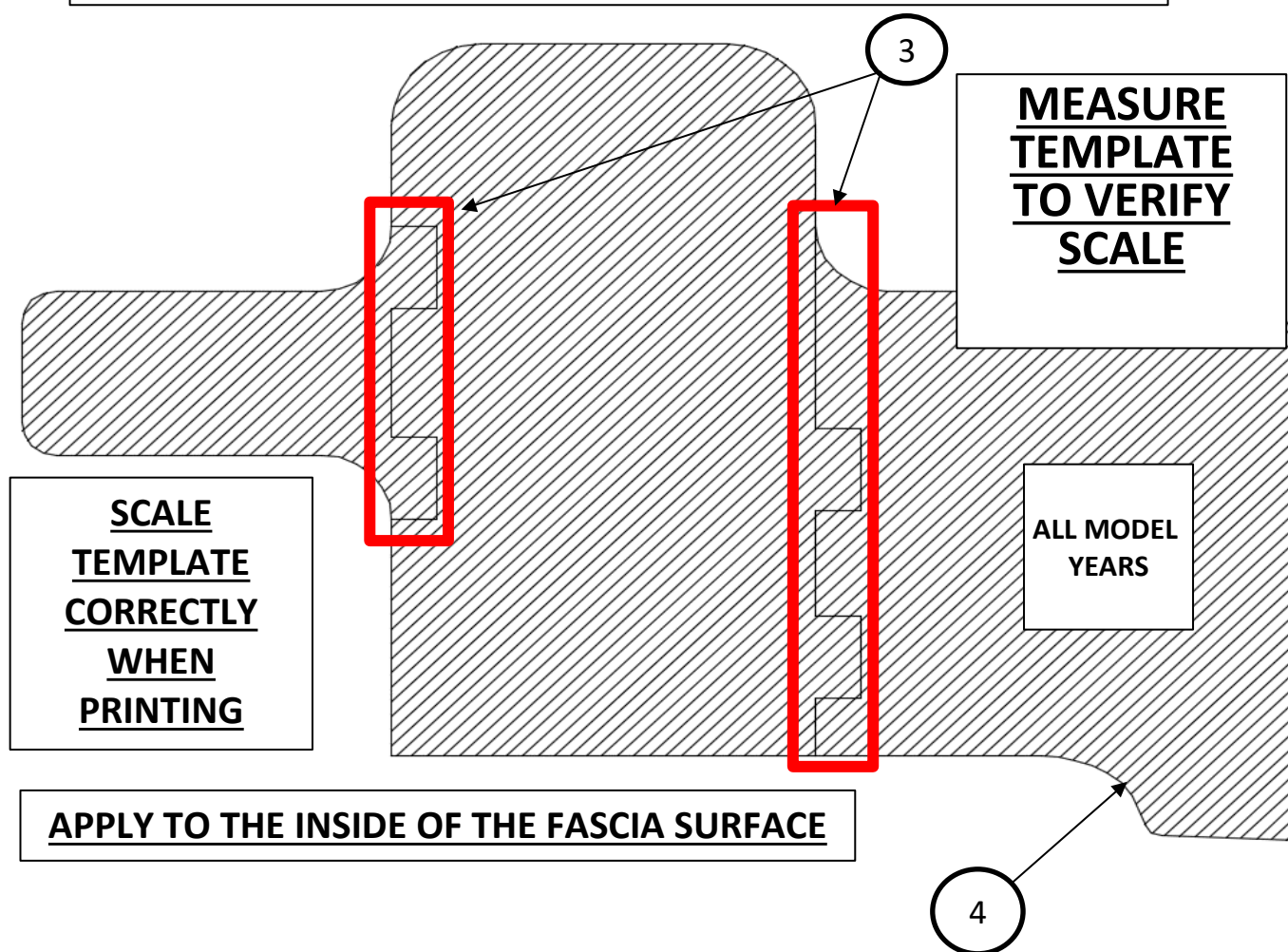


- 6) GO BACK TO PG. 19 AND CONTINUE INSTALLATION AT "INSTALL RUBBER GASKET" STEP.

TEMPLATE USE INSTRUCTIONS FOR LOWER FASCIA CUT (ALL YEARS)

- 1) WHEN INSTALLING THIS HITCH ON THE OUTBACK WILDERNESS, USE THE CUTTING TEMPLATE PROVIDED WITH THE PART, TRAILER HITCH FASCIA PANEL, PART NUMBER L101SAN610
- 2) TEMPLATE #1, #2, #3 (PGS 29-31) NEED TO BE TAPED TOGETHER SECURELY SO THAT THE PIECES FIT TOGETHER AS SHOWN BELOW.
- 3) PLACE TAPE ALONG KEY FEATURES.

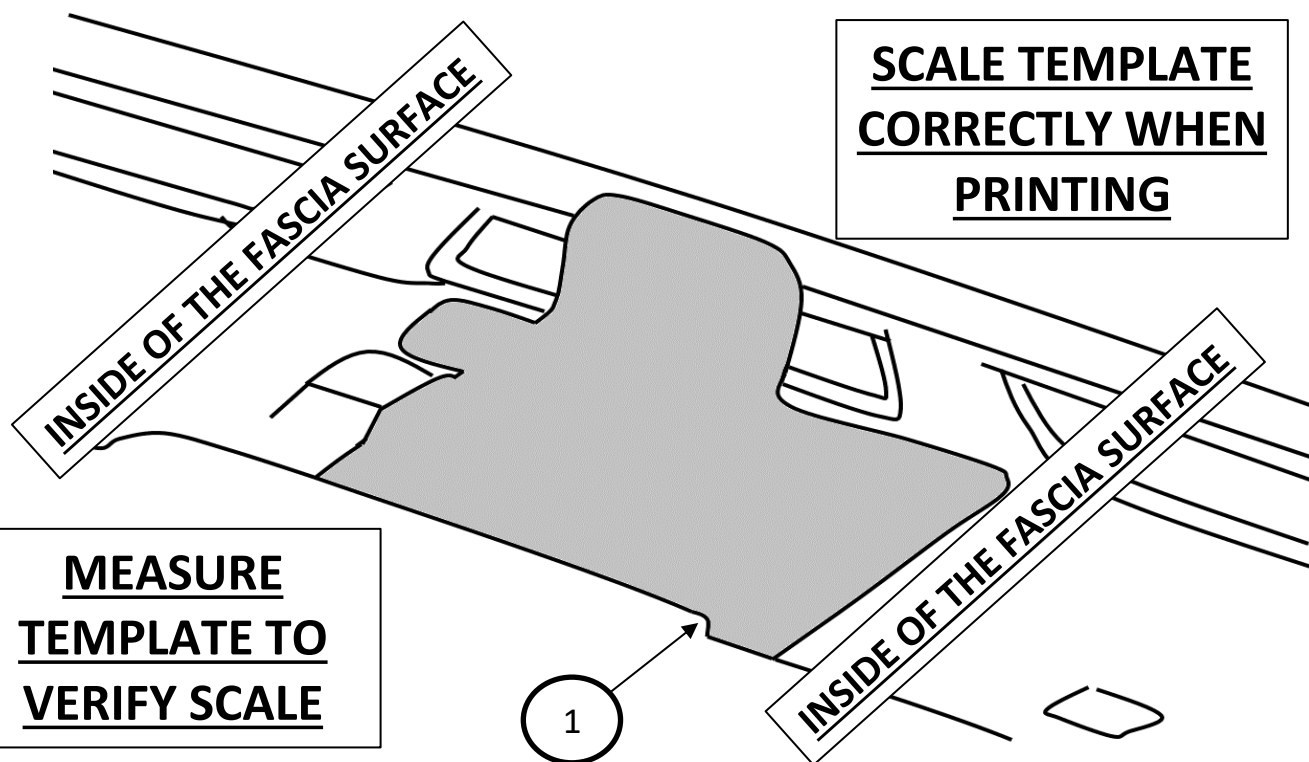
APPLY TO THE INSIDE OF THE LOWER FASCIA SURFACE



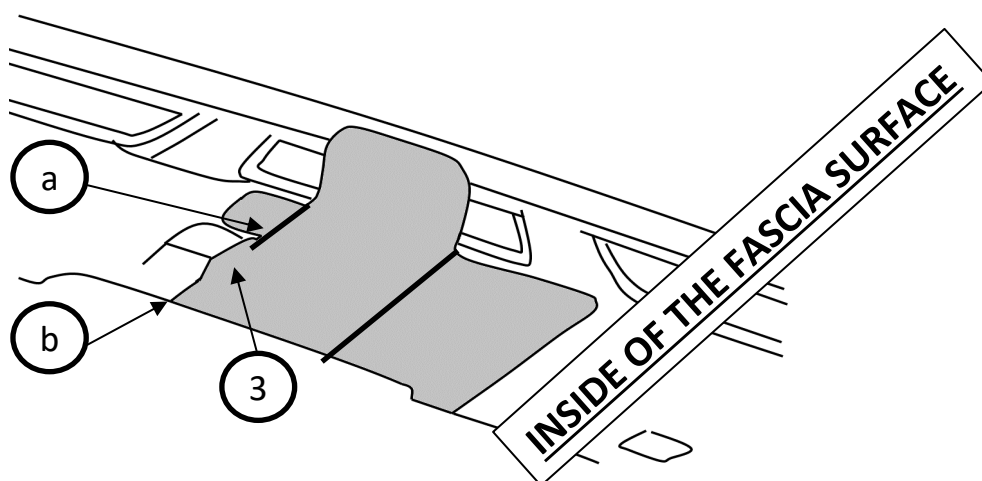
- 4) THIS CURVED EDGE IS THE EDGE USED TO ALIGNED TEMPLATE ON THE INSIDE SURFACE FOR THE NEXT STEP.
IF THIS EDGE OF THE TEMPLATE IS DAMAGED, USE A NEW TEMPLATE.

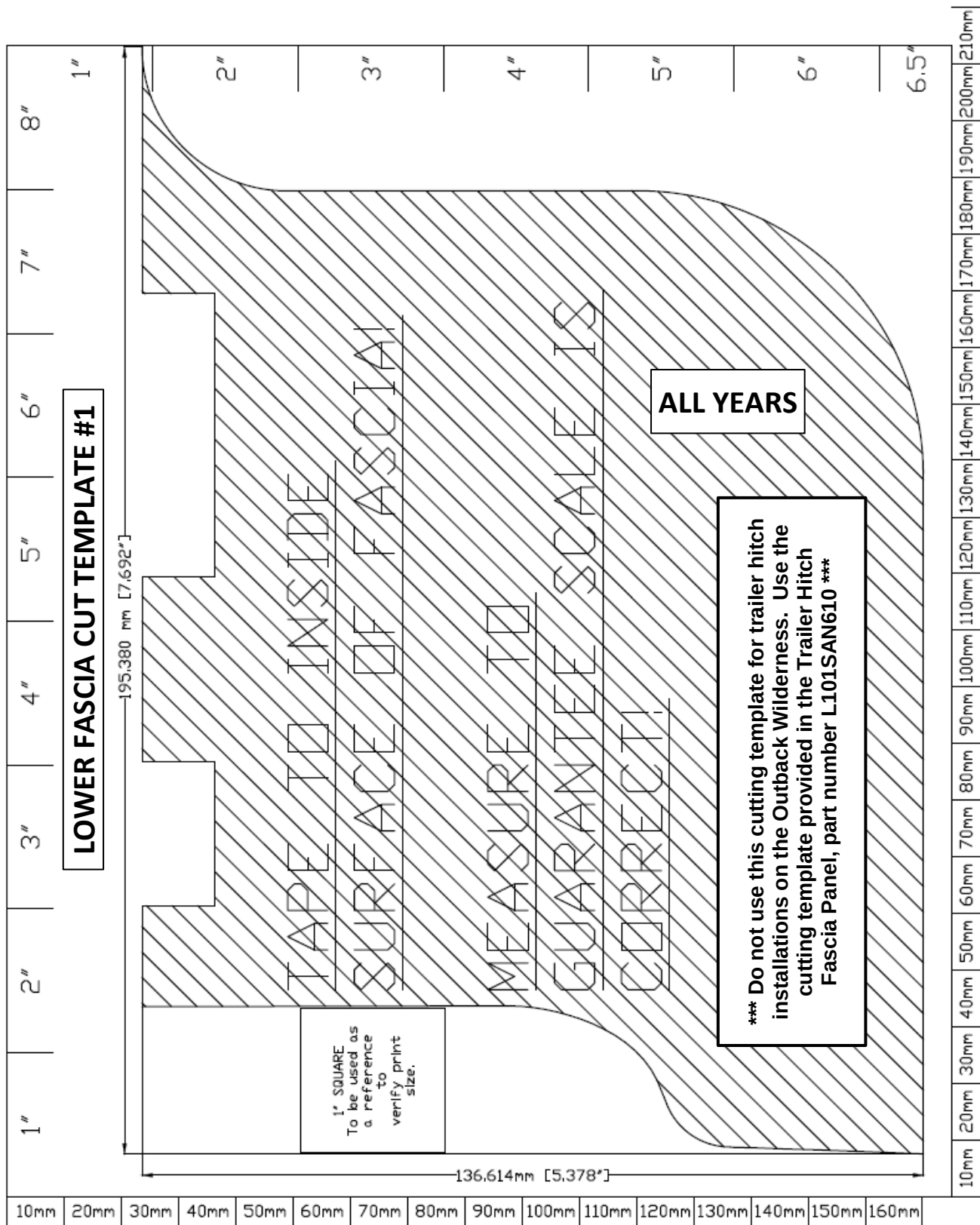
TEMPLATE USE INSTRUCTIONS FOR LOWER FASCIA CUT (ALL YEARS)

- 1) WITH THE COMBINED TEMPLATE, START ALIGNING THE TEMPLATE TO THE INSIDE OF THE FASCIA. START WITH LOCATION MARKED BELOW.



- 2) ENSURE TEMPLATE SITS FLAT AGAINST THE **INSIDE** OF THE FASCIA AND SECURE WITH TAPE SO THE TEMPLATE DOES NOT MOVE DURING CUTTING PROCESS.
- 3) THIS AREA WILL CAUSE TEMPLATE TO NOT SIT FLAT. MARK A STRAIGHT LINE FROM POINT "a" TO POINT "b" TO CUT REMAINING FASCIA.





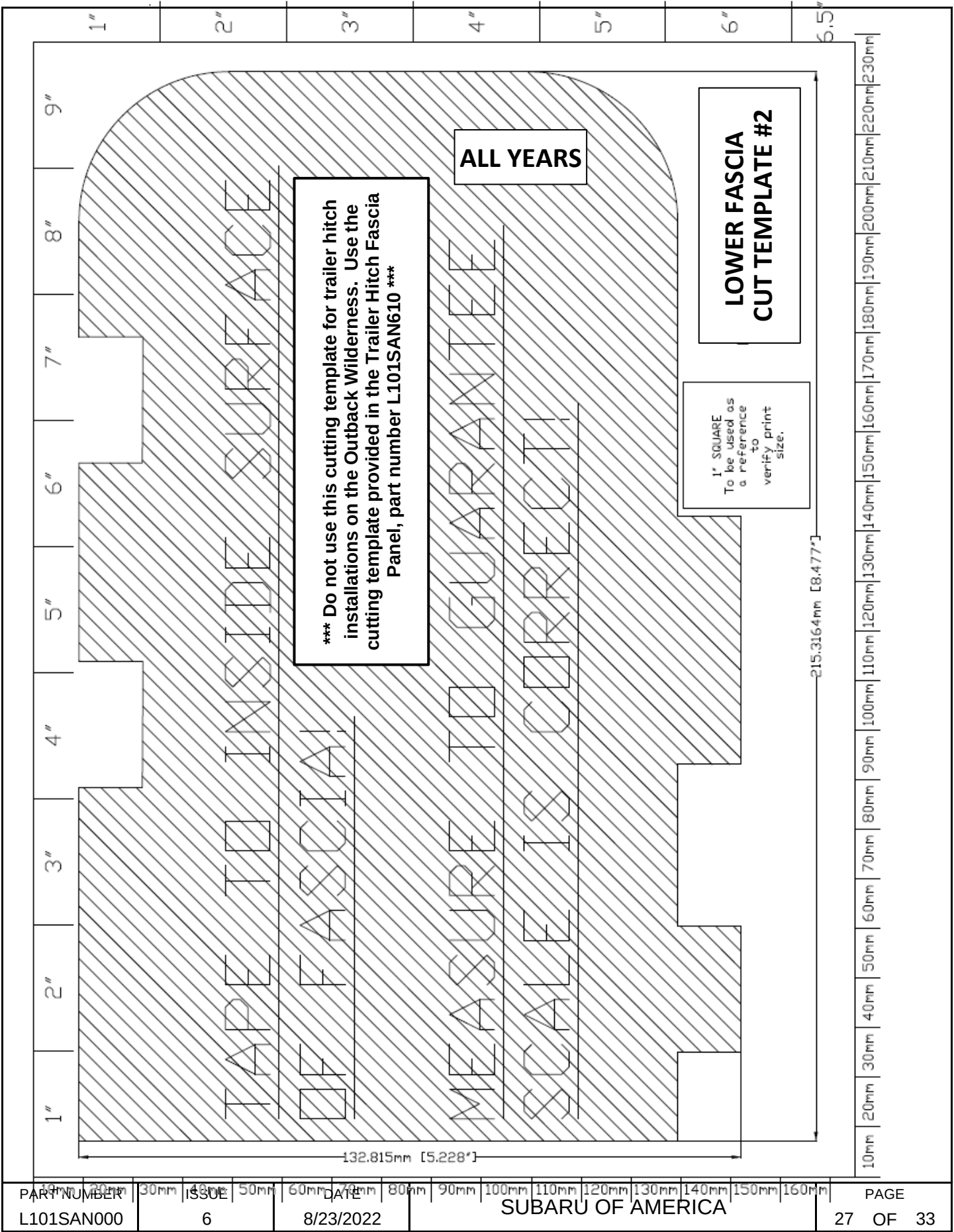
PART NUMBER
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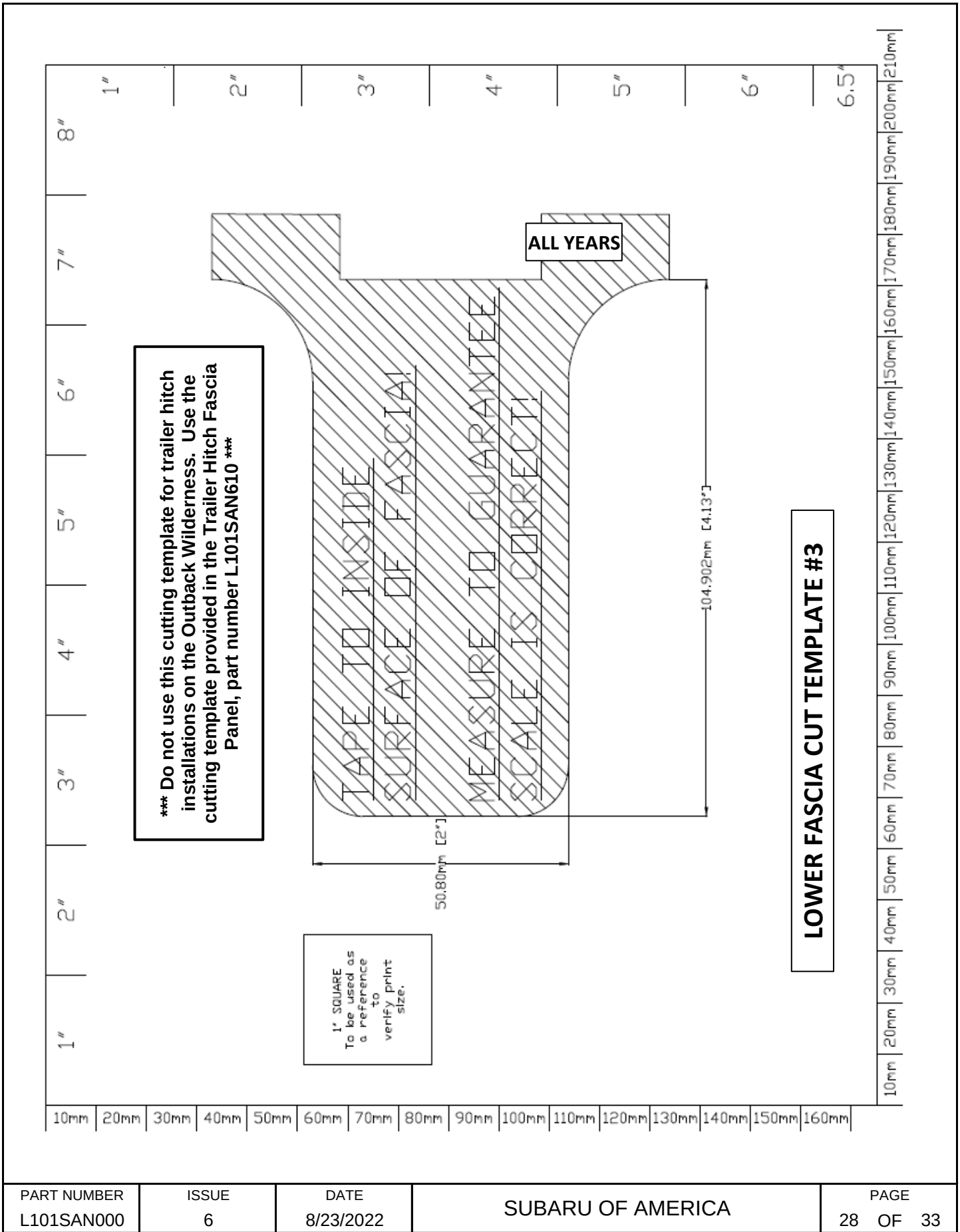
ISSUE
6

DATE
8/23/2022

SUBARU OF AMERICA

PAGE
26 OF 33

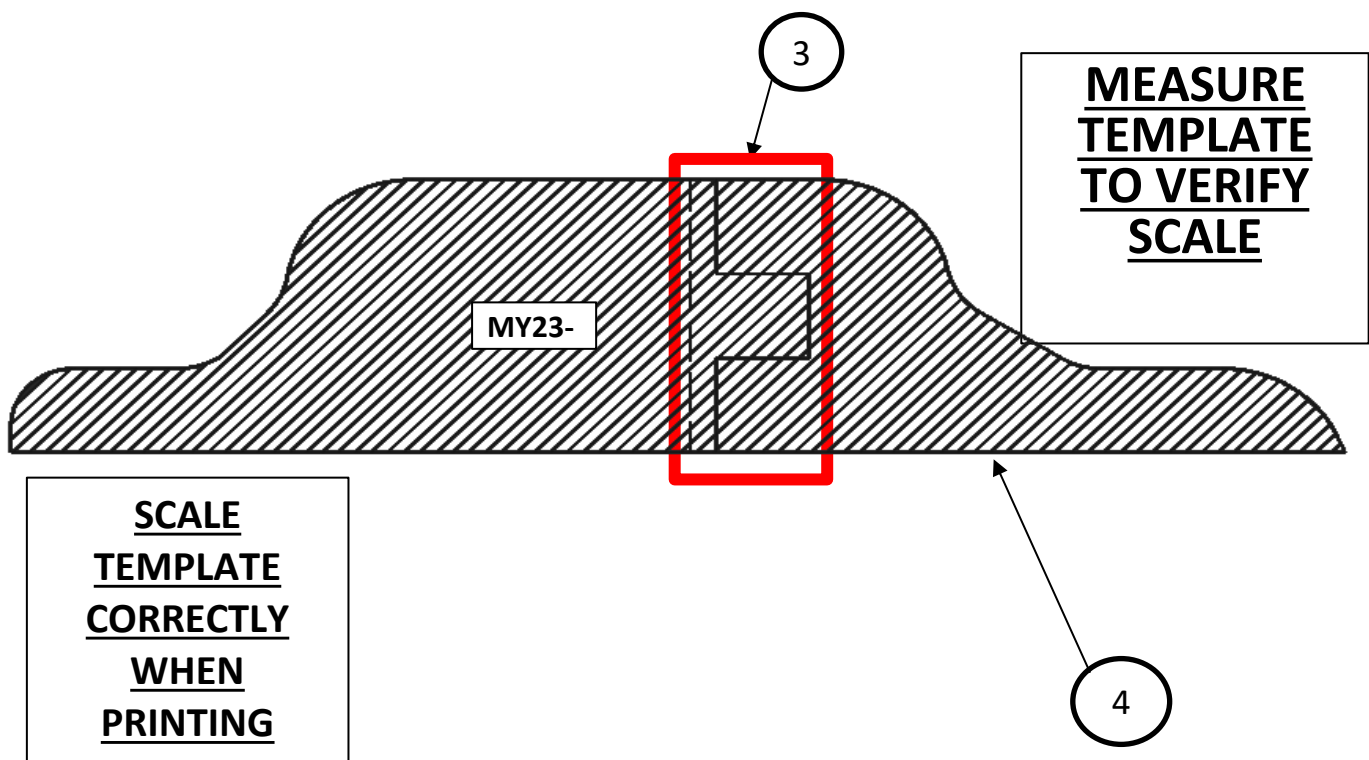




TEMPLATE USE INSTRUCTIONS FOR UPPER FASCIA CUT (YEAR 23-)

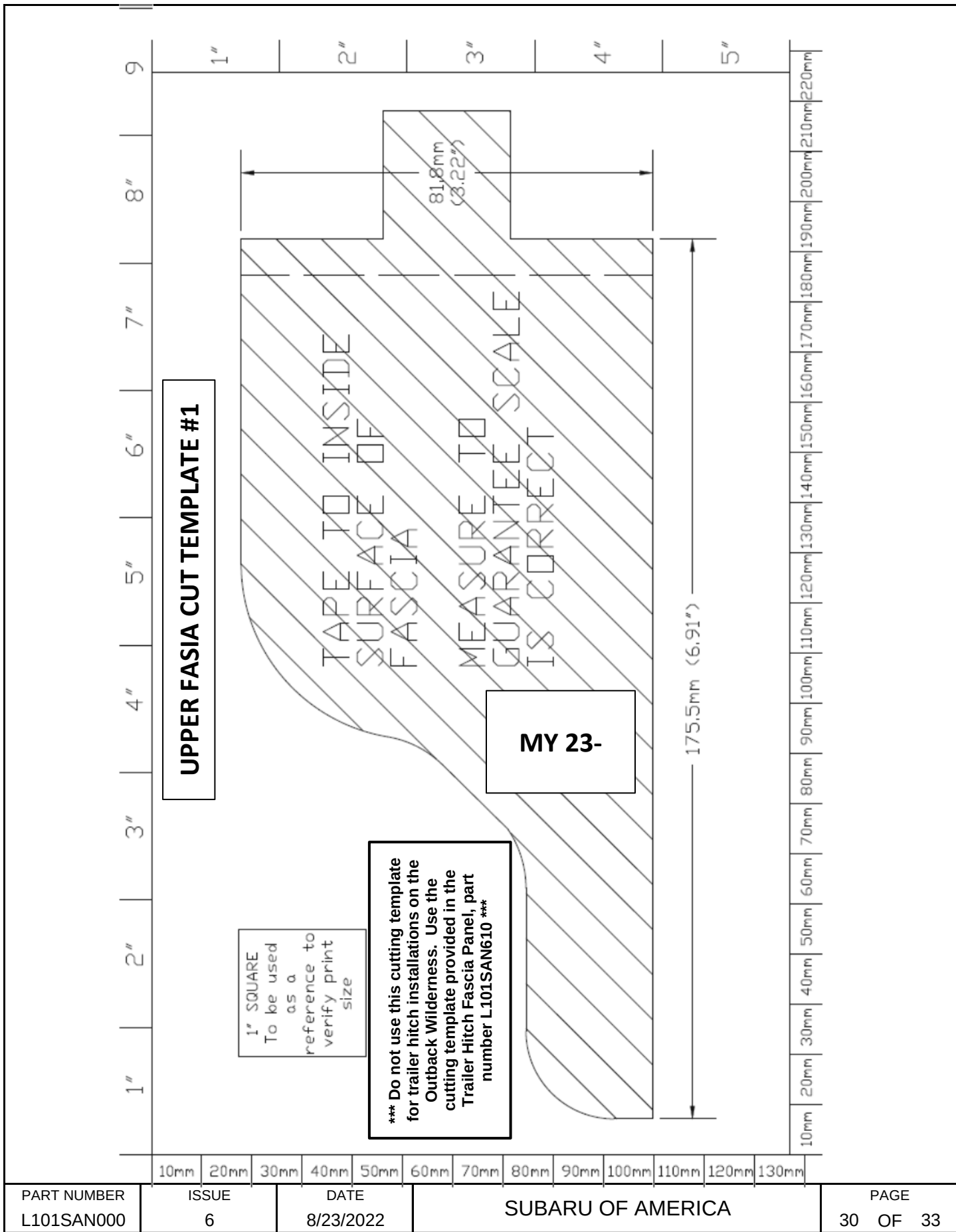
- 1) WHEN INSTALLING THIS HITCH ON THE OUTBACK WILDERNESS, USE THE CUTTING TEMPLATE PROVIDED WITH THE PART, TRAILER HITCH FASCIA PANEL, PART NUMBER L101SAN610
- 2) TEMPLATE #1, #2 (PGS 25-26) NEED TO BE TAPED TOGETHER SECURELY SO THAT THE PIECES FIT TOGETHER AS SHOWN BELOW.
- 3) PLACE TAPE ALONG KEY FEATURES.

APPLY TO THE INSIDE OF THE FASCIA SURFACE



APPLY TO THE INSIDE OF THE FASCIA SURFACE

- 4) THIS STRAIGHT EDGE IS THE EDGE USED TO ALIGNED TEMPLATE ON THE **INSIDE** SURFACE FOR THE NEXT STEP.
IF THIS EDGE OF THE TEMPLATE IS DAMAGED, USE A NEW TEMPLATE.



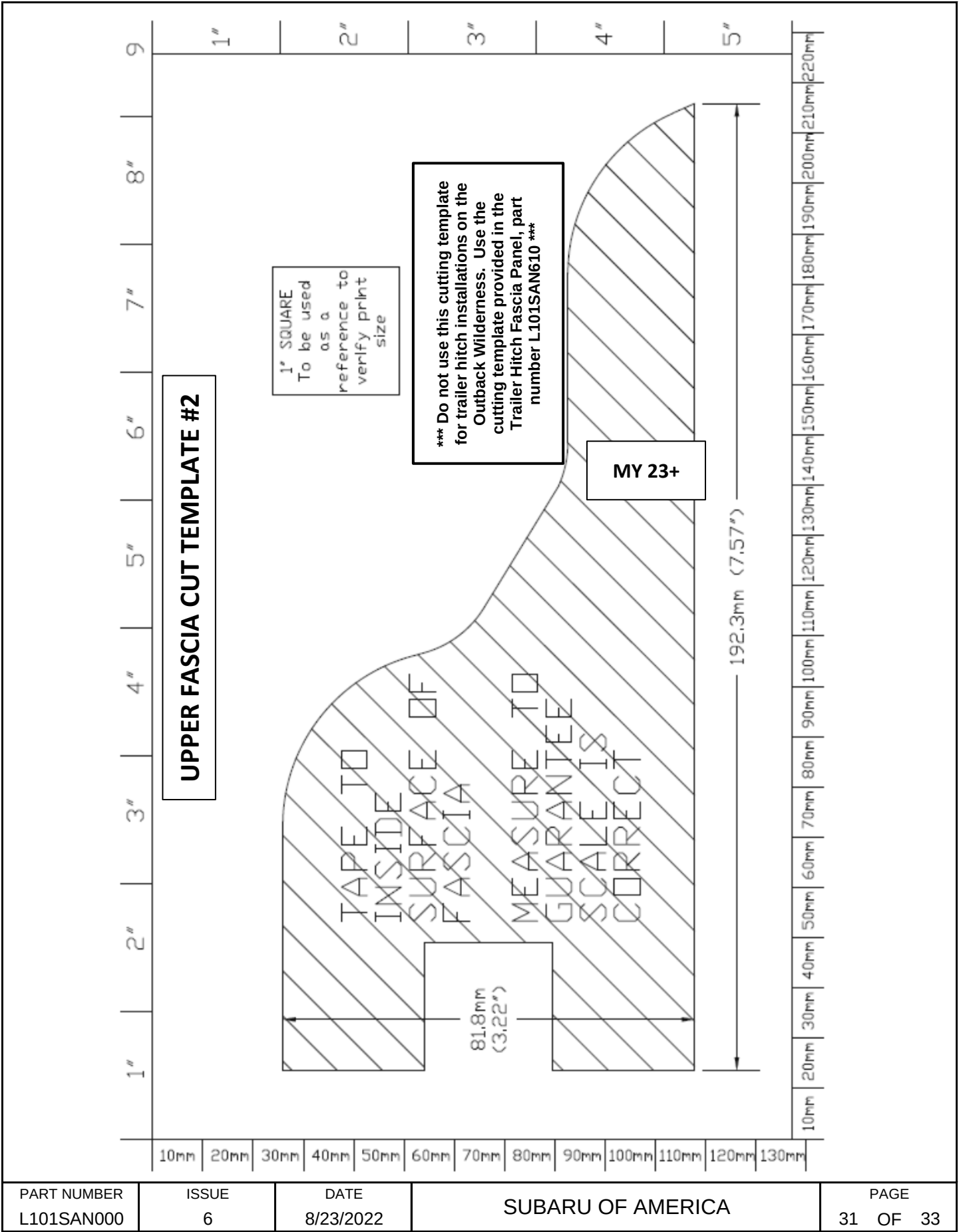
PART NUMBER
L101SAN000

ISSUE
6

DATE
8/23/2022

SUBARU OF AMERICA

PAGE
30 OF 33



PART NUMBER
L101SAN000

ISSUE
6

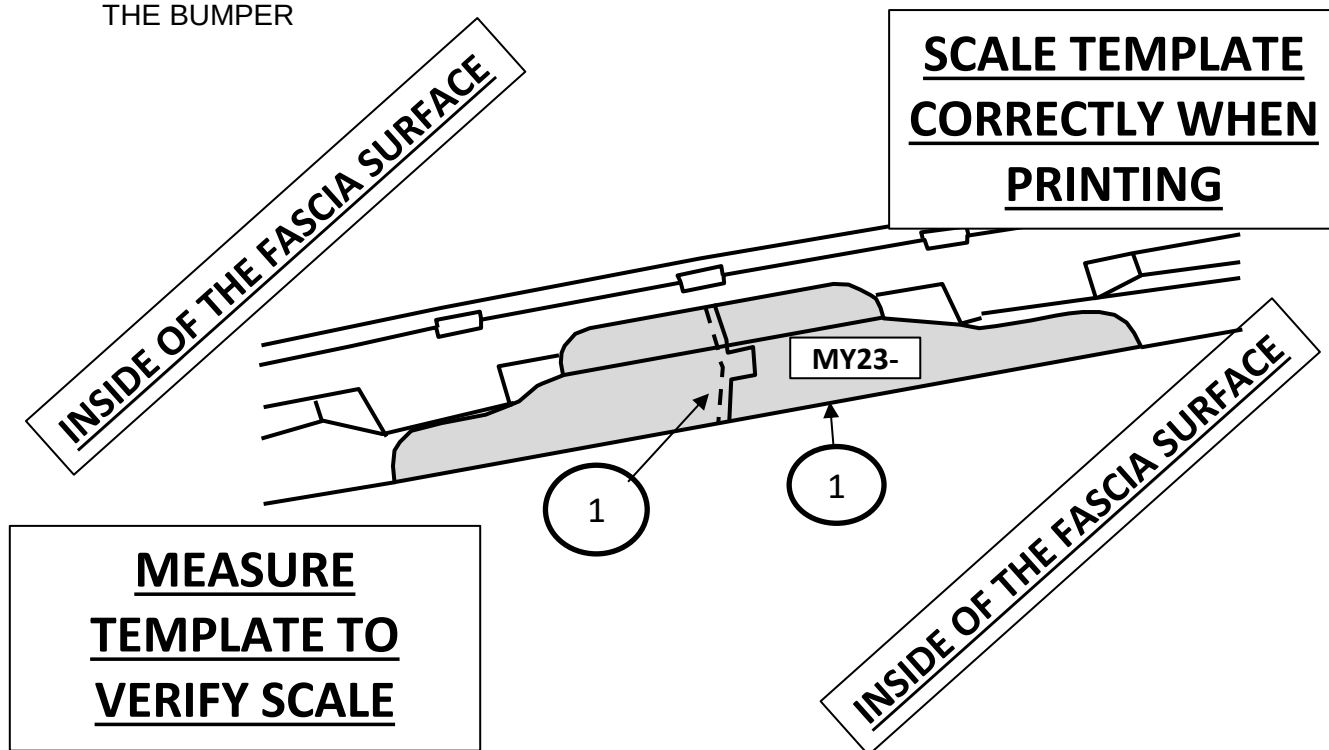
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SUBARU OF AMERICA

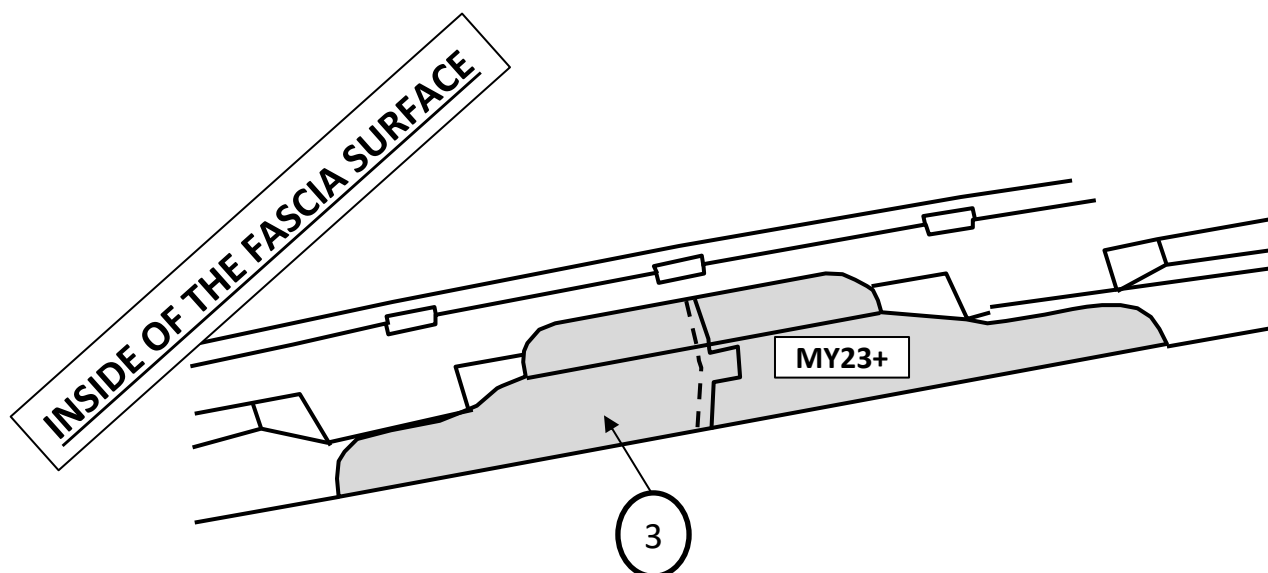
PAGE
31 OF 33

TEMPLATE USE INSTRUCTIONS FOR UPPER FASCIA CUT (YEAR 23-)

- 1) WITH THE COMBINED TEMPLATE, LINE UP THE TEMPLATE WITH THE EDGE OF THE PART. USE THE DOTTED LINE ON THE TEMPLATE TO ALIGN TO THE CENTER OF THE BUMPER



- 2) ENSURE TEMPLATE SITS FLAT AGAINST THE INSIDE OF THE FASCIA AND SECURE WITH TAPE SO THE TEMPLATE DOES NOT MOVE DURING CUTTING PROCESS.

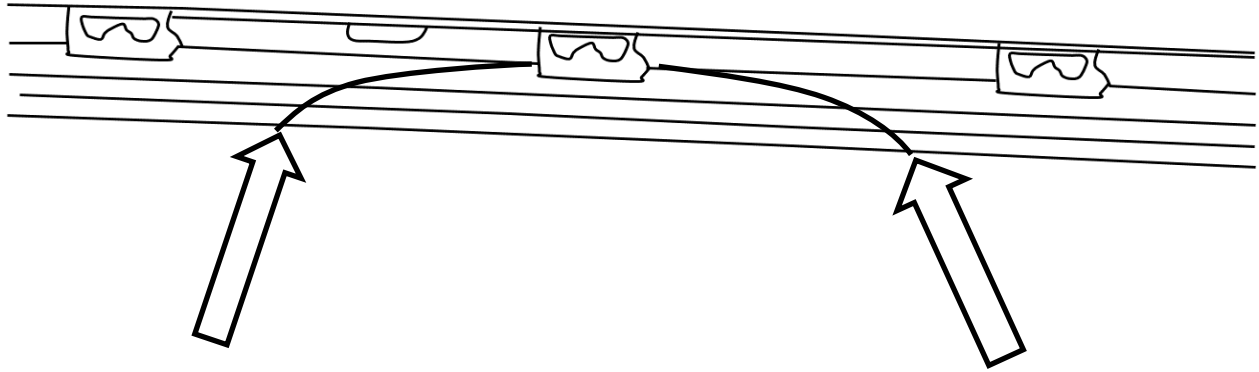


- 3) CONTINUE WITH STEP 5 ON PG. 23.

PART NUMBER L101SAN000	ISSUE 6	DATE 8/23/2022	SUBARU OF AMERICA	PAGE 32 OF 33
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UPPER FASCIA CUT (YEAR 20-22)

- 1) ONLY WHEN UPPER AND LOWER FASCIA PIECES ARE SEPARATED,
FOLLOW SCRIBE LINE TO CUT FASCIA PIECE



- 2) AFTER CUTTING, REMOVE ANY SHARP EDGES OR BURRS LEFT. REATTACH THE
UPPER AND LOWER FASCIA COMPONENTS. REFER BACK TO PAGE 19 FOR
APPLYING THE RUBBER TRIM TO FASCIA.