



# Installation and Operations instructions for Guard Draw Stifner R

- Thank you for purchasing this product.
- This manual provides installation and handling instructions for this product, and precautions to be observed.
- Before using this product, be sure to read "Safety Precautions" and use the product properly.
- Keep this manual in a safe place, such as the glove box, and refer to it whenever necessary.

Important precautions are indicated with the following marks. Be sure to observe those precautions.

<b>Warning</b>	Precautions that you must observe for your safety. [Failure to observe these precautions may result in death or serious injury.]
<b>Caution</b>	Precautions that you must observe for your safety and for your vehicle. [Failure to observe these precautions may result in damages or accidents.]
<b>* Advice</b>	Information that you should familiarize yourself with. Information that are useful.

## **Warning**

- Never attempt to modify this product. This may damage the product and may become cause of serious accidents.
- Be sure to stop the engine during work for safety reasons.
- Be sure to tighten bolts and nuts firmly.
- Inspect the nuts and bolts after the first 60 miles (100 km) of driving after attaching them. Re-tighten them if necessary.
- If abnormal noise or vibration occurs while driving, pull over the car immediately to a safe place, and then inspect and re-tighten the attaching bolts. If abnormalities persist, perform inspection and make necessary repairs immediately. If you continue to drive in this condition, damages or accidents may occur.
- Stop using this product immediately if it has defects such as deterioration and breakage, or receives a strong impact, as these conditions impair the product's original performance.
- Make sure that no part comes in contact with the battery while working.

## **Caution**

- This product does not improve the limit performance significantly. Always drive safely.
- Do not use this product on inapplicable vehicles or for purposes other than it is designed for. Doing so may result in damages or accidents.
- Install this product in accordance with the service manual issued by SUBARU CORPORATION for your model. Also make sure to adhere to the precautions described in this document.
- If bolts and nuts are not tightened with specified torque while installing this product, they may be damaged or become loose. Make sure to tighten them with the specified torque.
- After installing this product, the fluid should be replenished or changed at a SUBARU dealer.

## **\*Advice**

- SUBARU shall not be held liable for any direct or indirect damage due to failures or other malfunction caused by incorrect installation or handling of this product.
- SUBARU does not honor warranty claims for malfunctions of products or vehicles that occur directly or indirectly due to the installation of this product.
- Malfunctions of vehicles that could occur due to the installation of this product may not be covered by the SUBARU vehicle warranty.
- When replacing parts with this product, be sure to use genuine SUBARU parts for non-reusable parts, consumables, oil and grease.
- Product specifications are subject to change without notice.
- Installation of this product may cause deterioration in ride comfort or significant changes in driving characteristics.

## Installation Procedures

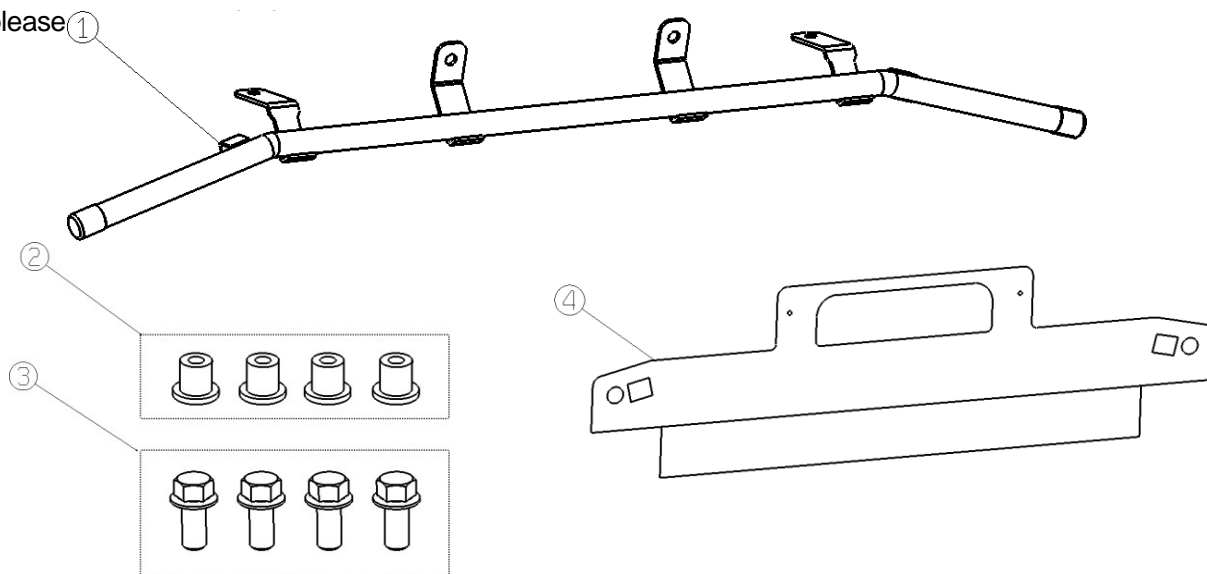
### 1. Part Number and Applicable Model

Part Number	Part Name	Applicable Car Model
SG920VA030	STI R GUARD BAR	WRX STI TYPE A ~ WRX TYPE A ~

### 2. Components

①	Guard Bar Flexible Draw Stiffener Rear	1
②	Pop nuts	4
③	Flange bolts M8x25	4
④	Pattern	1

\*Please check the quantities of the component parts first. If there are any missing parts or discrepancies, please



### 3. Specification

This product protects the Flexible Draw Stiffener Rear from damage during goods loading and emergency braking

### 4. Precautions During Installation

#### Warning

- For safety purposes, always turn off the engine and ignition while operating. And disconnect the negative terminal of the battery before you start working on installation of the product.
- Always tighten bolts and nuts firmly.

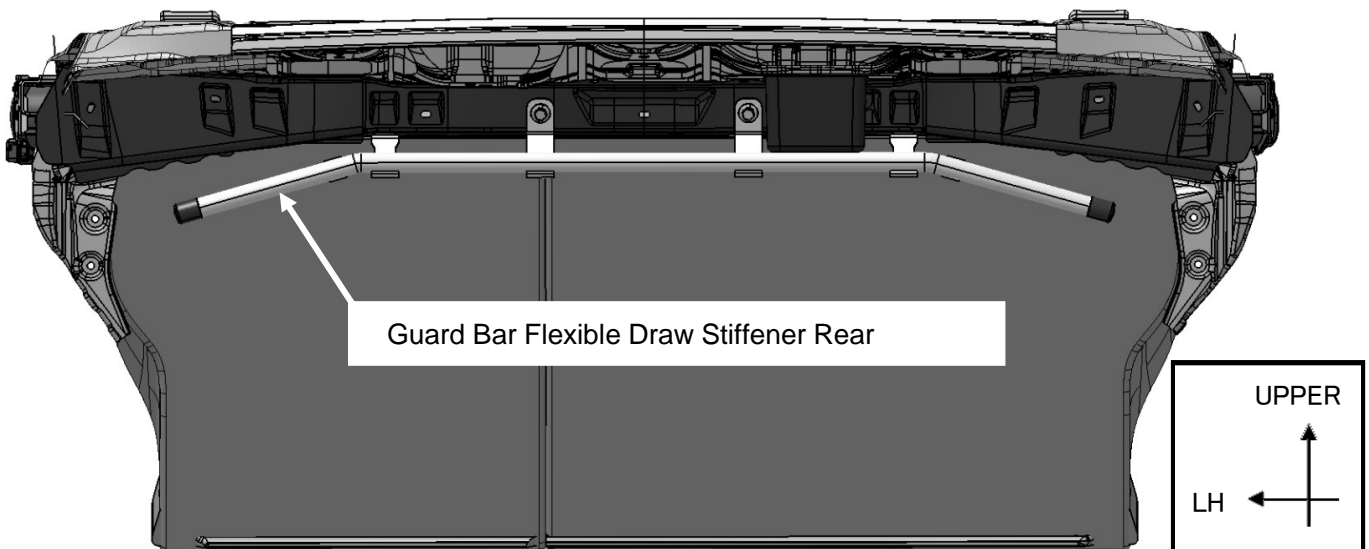
#### Caution

- The contents of this manual is designed for automobile mechanics or those who have basic knowledge about automobile maintenance. Do not let inexperienced persons to work alone, as it could cause the vehicle to undergo dangerous troubles during driving. To install the product properly for it to function as intended, it is recommended to perform the installation procedure at an authorized SUBARU retailer.
- Be sure to perform the work in accordance with the service manual for the relevant model issued by SUBARU CORPORATION. and observe the precautions in this manual.
- Tighten bolts and nuts according to specified torque. If not tightened with specified torque, the bolts and nuts may become damaged or loose.

### 5. Work Procedure

Make sure to follow instructions in the service manual issued by SUBARU Corporation for replacement instructions of related detachable parts when installing this part.

#### Overview of an Installed Guard Bar Flexible Draw Stiffener Rear



\* The above diagram is for reference only and the shape and location of peripheral parts may vary depending on vehicle specifications.

A: Introduction

1) Prepare the following items.

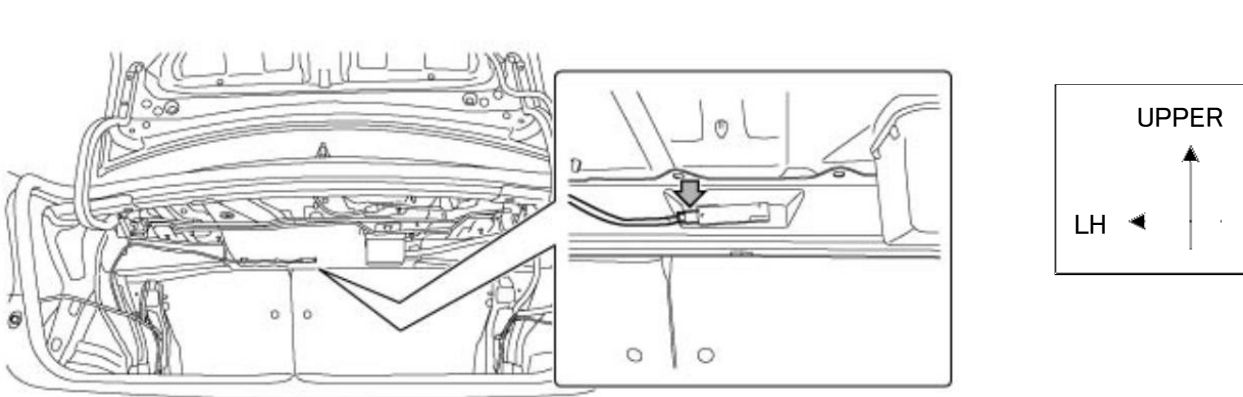
- $\phi 5$  drill
- $\phi 16$  hole saw
- Center punch and hammer
- Masking tape
- Protection materials for trunk (for example, protection sheet and tape)
- Flexible magnetic catch

B: Preparation for Processing

1) Disconnect the negative terminal of the battery.

For models with a battery sensor, disconnect the ground terminal from the battery sensor.

2) Disconnect the connector for the keyless access interior rear antenna in the trunk.

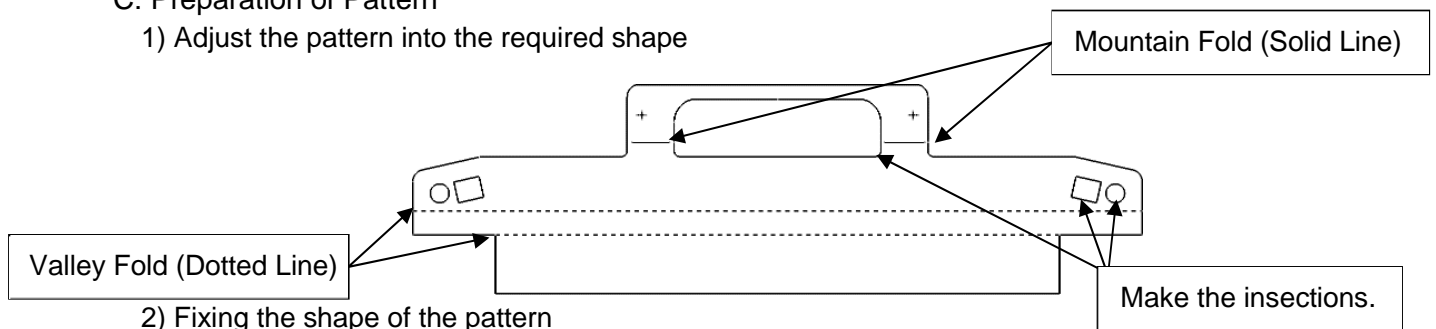


**\* Important**

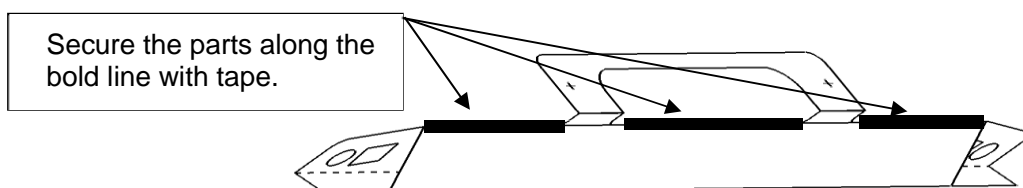
• Do not remove the antenna assembly from the body of the vehicle. It will cause rattling and noise.

C: Preparation of Pattern

1) Adjust the pattern into the required shape



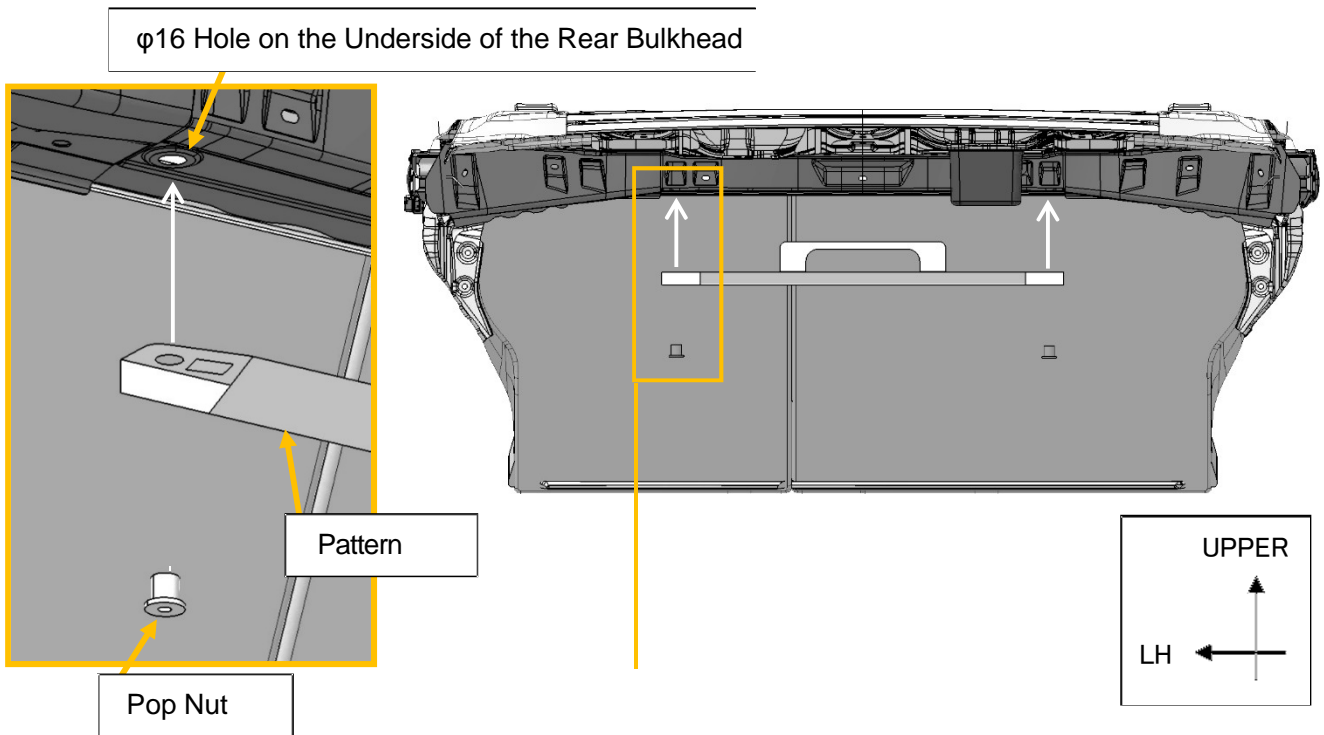
2) Fixing the shape of the pattern



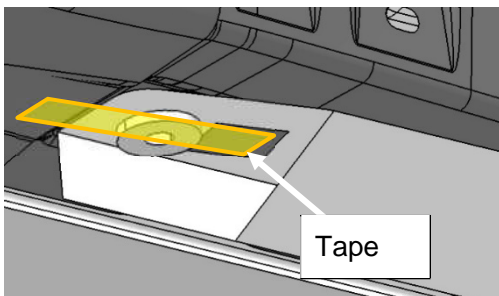
### 3) Positioning of the pattern

Push the pop nuts through the  $\phi 16$  holes on the pattern and position them into the 2  $\phi 16$  holes on the underside of the rear bulkhead.

(The figure below is an example of the left-hand side.)

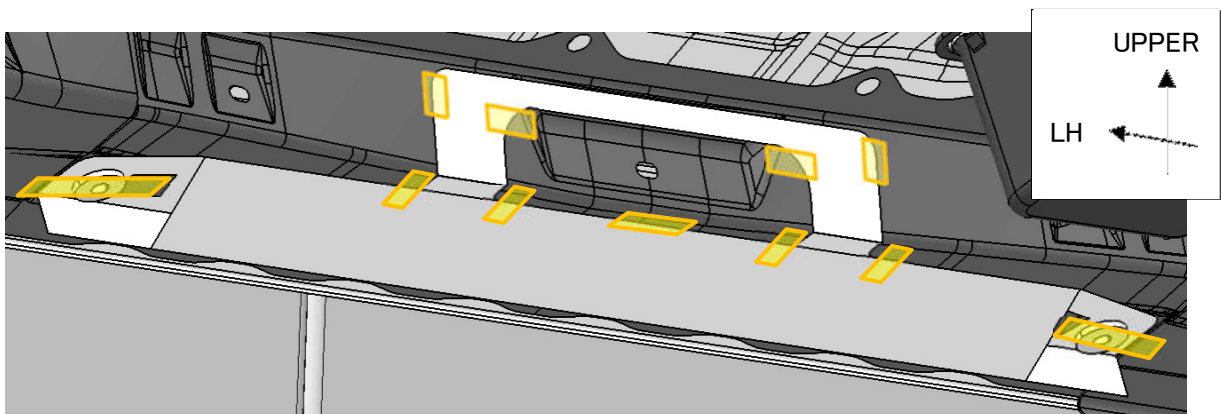


Once the position is determined, secure the rear bulkhead, pattern and pop nut with tape.



### 4) Fixing the pattern

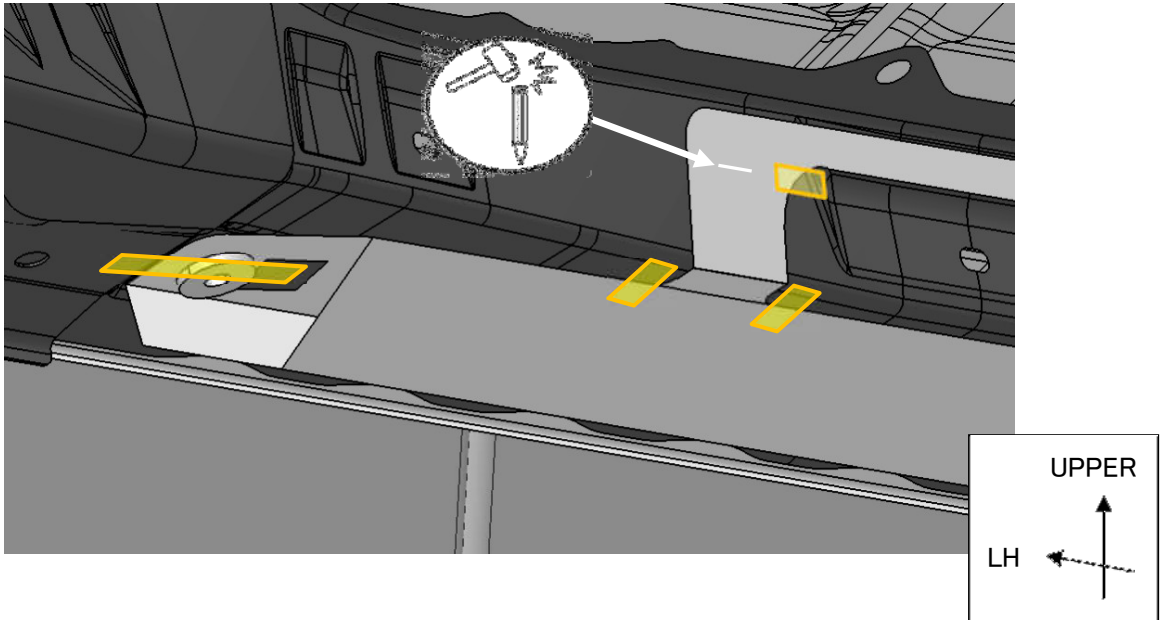
Secure the pattern with tape at the points indicated in the figure below while being careful not to leave any sagging or gaps between the pattern and the rear bulkhead.



## D: Processing of Vehicle Body

### 1) Positioning for drilling

Mark the center punch in the center of the cross-shaped cutout in the pattern. (2 locations, left and right. The figure below is an example of the left side.) Once you have finished marking the center punches, remove the pattern and pop nuts once.

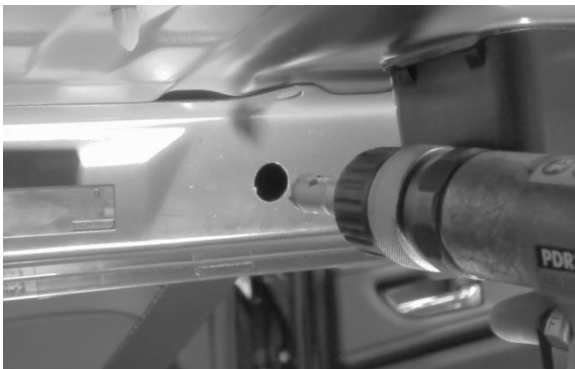


### 2) Drilling process

Drilling holes in the 2 positions of the center marking.

Use a  $\varnothing 5\text{mm}$  drill to drill a test hole and a  $\varnothing 16$  hole saw to drill the mounting hole in the 2 locations.

(The figure below is an example of the right side.)



### CAUTION

When drilling, pay attention to the following points in order to prevent abnormal noise and rust.

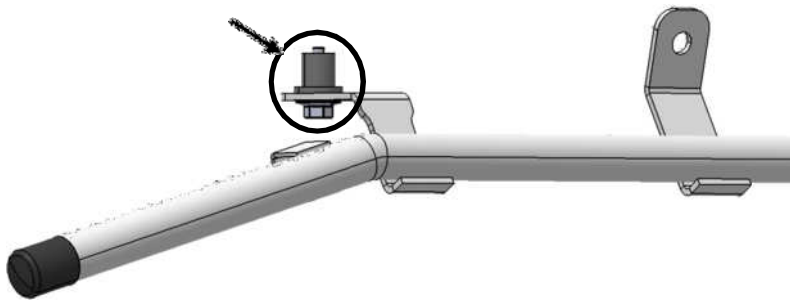
1. The trunk should be protected from flying chips.
2. The rear bulkhead has a bag structure. Work carefully to prevent chips and drill debris from entering the inside of the bulkhead.
3. Position the hole saw orthogonally to the work surface.
4. To prevent damage from chips, remove them frequently during work.  
Before the hole saw blade penetrates, move the hole saw away from the work area and remove the chips inside the saw.
5. Remove all burrs from the inside and outside of the hole after drilling.
6. After drilling, remove any chips scattered inside the rear bulkhead and trunk.  
For the inside of the rear bulkhead, use a flexible magnetic catch to thoroughly remove the chips.
7. Apply touch-up paint to the processed area and allow it to dry thoroughly.

E: Installation

- 1) Push pop nuts into the 2 holes made in the previous steps at the rear side of the rear bulkhead.  
(The figure below is an example of the right side.)



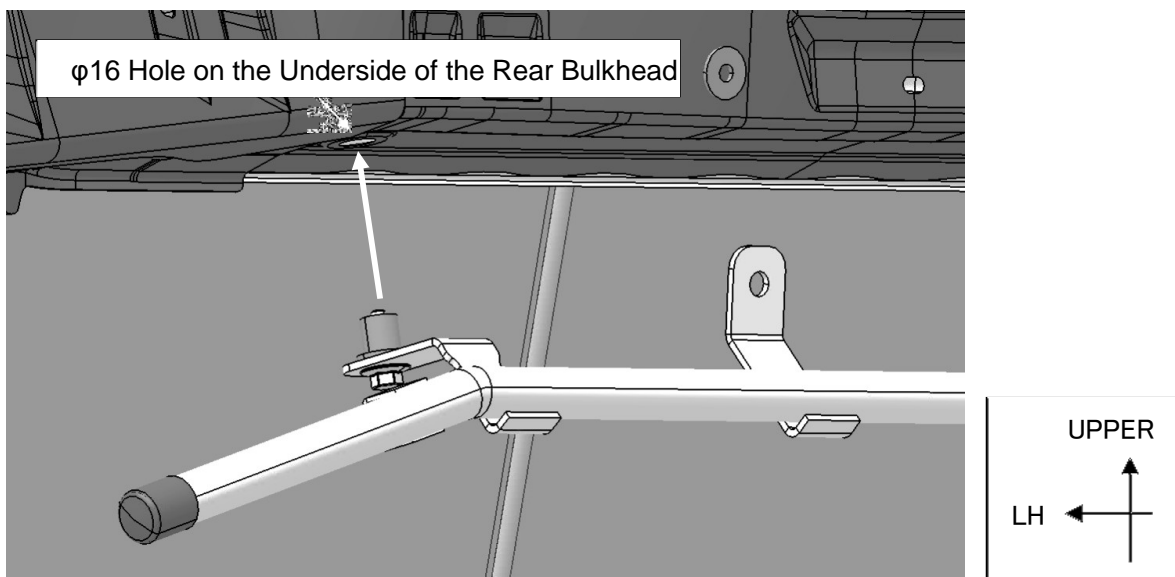
- 2) Insert the bolts into the 2 holes on the underside of the guard bar and temporarily assemble them with the pop nuts.  
(The figure below is an example of the left-hand side.)



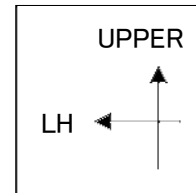
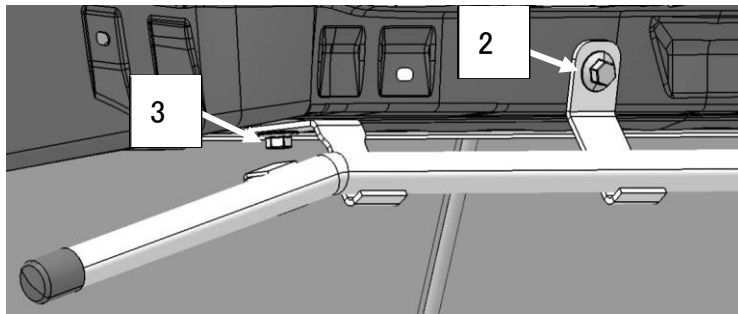
- 3) Installation of the guard bar to the vehicle body

1. Insert the temporarily assembled pop nut on the underside of the guard bar into the  $\phi 16$  hole on the underside of the rear bulkhead.

(The figure below is an example of the left-hand side.)



2. Temporarily fasten the 2 bolts on the rear side of the rear bulkhead.
3. Temporarily fasten the 2 bolts on the underside of the rear bulkhead.
4. Retighten the 4 bolts temporarily fastened in Steps 2 and 3 a little at a time each, and finally fasten all 4 bolts with 5 Nm.

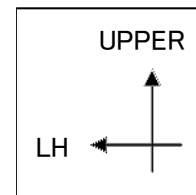
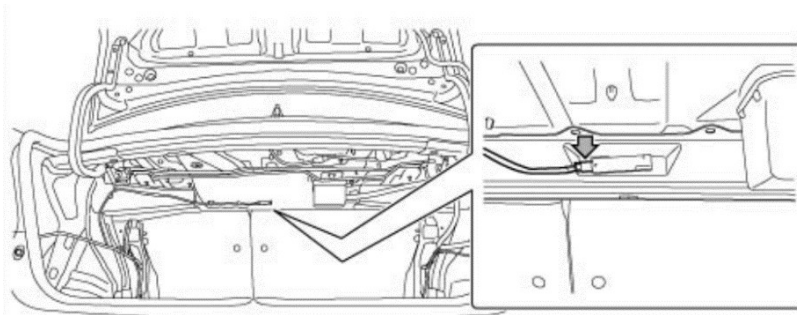


**\*Advice**

- Tighten the 4 bolts a little at a time each to ensure even tightening. Applying full torque to one bolt at a time may damage the pop nut.

**F: Restoration**

- 1) Plug in the connector for the keyless access interior rear antenna in the trunk.



- 2) Reconnect the negative terminal of the battery.  
For models with a battery sensor, connect the ground terminal from the battery sensor.



To customers

### Handling Precautions

 **Warning**

- If abnormal noise or vibration occurs while driving, pull over the car immediately to a safe place, and then inspect and re-tighten the attaching bolts. If abnormalities persist, perform inspection and make necessary repairs immediately. If you continue to drive in this condition, damages or accidents may occur.
- Inspect the nuts and bolts after the first 60 miles (100 km) of driving and periodically after attaching them. Re-tighten them if necessary.
- Please do not use this product for other than applicable models.

 **Caution**



- We recommend that this product be installed at an authorized Subaru maintenance facility to ensure proper installation and function.



## Installation and Operations instructions for LATERAL LINK SET

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 <b>Caution</b>	Precautions that you must observe for your safety and for your vehicle. [Failure to observe these precautions may result in damages or accidents.]
<b>* Advice</b>	Information that you should familiarize yourself with. Information that are useful.

### Warning

- Never attempt to modify this product. This may damage the product and may become cause of serious accidents.
- Be sure to stop the engine during work for safety reasons.
- Be sure to tighten bolts and nuts firmly.
- Inspect the nuts and bolts after the first 60 miles (100 km) of driving after attaching them. Re-tighten them if necessary.
- If abnormal noise or vibration occurs while driving, pull over the car immediately to a safe place, and then inspect and re-tighten the attaching bolts. If abnormalities persist, perform inspection and make necessary repairs immediately. If you continue to drive in this condition, damages or accidents may occur.
- Stop using this product immediately if it has defects such as deterioration and breakage, or receives a strong impact, as these conditions impair the product's original performance.
- Make sure that no part comes in contact with the battery while working.

### Caution

- This product does not improve the limit performance significantly. Always drive safely.
- Do not use this product on inapplicable vehicles or for purposes other than it is designed for. Doing so may result in damages or accidents.
- Install this product in accordance with the service manual issued by SUBARU CORPORATION for your model. Also make sure to adhere to the precautions described in this document.
- If bolts and nuts are not tightened with specified torque while installing this product, they may be damaged or become loose. Make sure to tighten them with the specified torque.

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- Malfunctions of vehicles that could occur due to the installation of this product may not be covered by the SUBARU vehicle warranty.
- When replacing parts with this product, be sure to use genuine SUBARU parts for non-reusable parts, consumables, oil and grease.
- Product specifications are subject to change without notice.
- Installation of this product may cause deterioration in ride comfort or significant changes in driving characteristics.

## Installation Procedures

### 1. Part Number and Applicable Model

Part number	Part Name	Applicable Model
SG920VA040	STI LATERAL LINK SET	WRX STI A TYPE~ WRX STI Limited A TYPE~

### 2. Components


Lateral link set Front (RH/LH)	each 1
Lateral link set Rear (RH/LH)	each 1
Washer A (Outer Diameter $\Phi 22$ , Inner Diameter $\Phi 14$ )	2
Washer B (Outer Diameter $\Phi 22$ , Inner Diameter $\Phi 12.5$ )	2


\* Check the number of items included first. If any items are missing or different, contact the place of purchase.

### 3. Specifications

Changed the rubber bushes of the front and rear lateral links to pillow ball bushes


### 4. Precautions During Installation

 Warning
<ul style="list-style-type: none"><li>· For safety purposes, <u>always turn off the engine and ignition while operating.</u> And <u>disconnect the negative terminal</u> of the battery before you start working on installation of the product.</li><li>· <u>Always tighten bolts and nuts firmly.</u></li></ul>

 Caution
<ul style="list-style-type: none"><li>· The contents of this manual is designed for automobile mechanics or those who have basic knowledge about automobile maintenance. Do not let inexperienced persons to work alone, as it could cause the vehicle to undergo dangerous troubles during driving. To install the product properly for it to function as intended, it is recommended to perform the installation procedure at an authorized SUBARU retailer.</li><li>· Be sure to perform the work in accordance with the service manual for the relevant model issued by SUBARU CORPORATION. and observe the precautions in this manual.</li><li>· Tighten bolts and nuts according to specified torque. If not tightened with specified torque, the bolts and nuts may become damaged or loose.</li></ul>

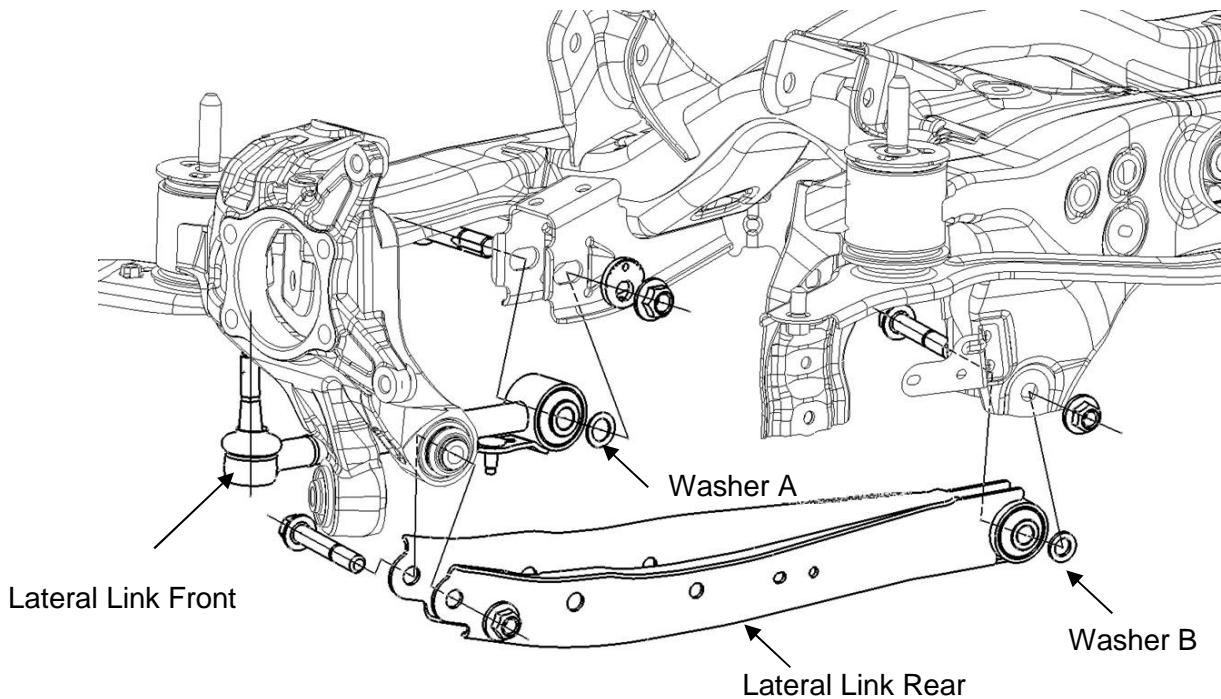
### 5. Parts that Cannot be Replaced at the Same Time or Reused

Replace self-locking nuts and flange nuts according to the service manual issued by Subaru Corporation.

 Caution
<ul style="list-style-type: none"><li>· Always tighten the bushing in the state where the vehicle is at curb weight and the wheels are in full contact with the ground.</li><li>· When the wheel alignment has been adjusted, perform adjustment of the VDC sensor midpoint setting mode.</li><li>· Do not apply impact to the sensor assembly - headlight beam leveler or forcibly move the arm. Doing so may cause sensor damage and malfunction.</li></ul>

## 6 . Installation Procedure

Please refer to the service manual issued by SUBARU CORPORATION. for the details of the work.



\* **Please check the wheel alignment and adjust if necessary.**

**⚠ Caution**

·When installing the lateral link assembly - front, install the washer A and B on the nut side of the pillow ball bushing.

**⚠ Caution**

·When the lateral link parts are attached / detached or replaced, it is necessary to initialize or reinitialize the auto headlamp leveler system.  
Please perform the re-initialization work according to the service manual body lighting system auto headlamp leveler system issued by SUBARU Corporation.

Handling Precautions



**Warning**

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- Inspect the nuts and bolts after the first 60 miles (100 km) of driving and periodically after attaching them. Re-tighten them if necessary.
- Please do not use this product for other than applicable models.
- By changing the rubber bush part to a pillow ball, this product makes the movement of the vehicle sharper with respect to the input from the road surface and the input from the steering, but it does not dramatically improve the limit performance itself. Please try to drive safely as before the replacement.



**Caution**

- We recommend that this product be installed at an authorized SUBARU maintenance facility to ensure proper installation and function.
- Be sure to use this product as a set. If you combine it with links with different specifications, you will not get the original performance.
- Installation of this product may cause deterioration of ride comfort and major changes in driving characteristics.

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SUBARU CORPORATION

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