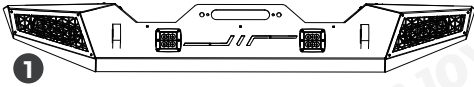


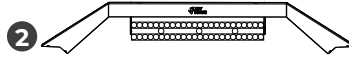
✓ IMPORTANT

Before installation, please make sure that all accessories are ready.
(As shown in the picture below)

✓ PRODUCT INFORMATION



1 Main Body *1



2 Bull Bar *1



3 D-ring *2



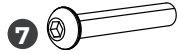
4 M10 Spring Washer *10
(Include 2 spares)



5 Φ10*25*1.5 Flat Washer *10
(Include 2 spares)



6 M10 Hex Nuts *10
(Include 2 spares)



7 M6X25 Button Head Bolt *6
(Include 2 spares)



8 M6 Spring Washer *6
(Include 2 spares)

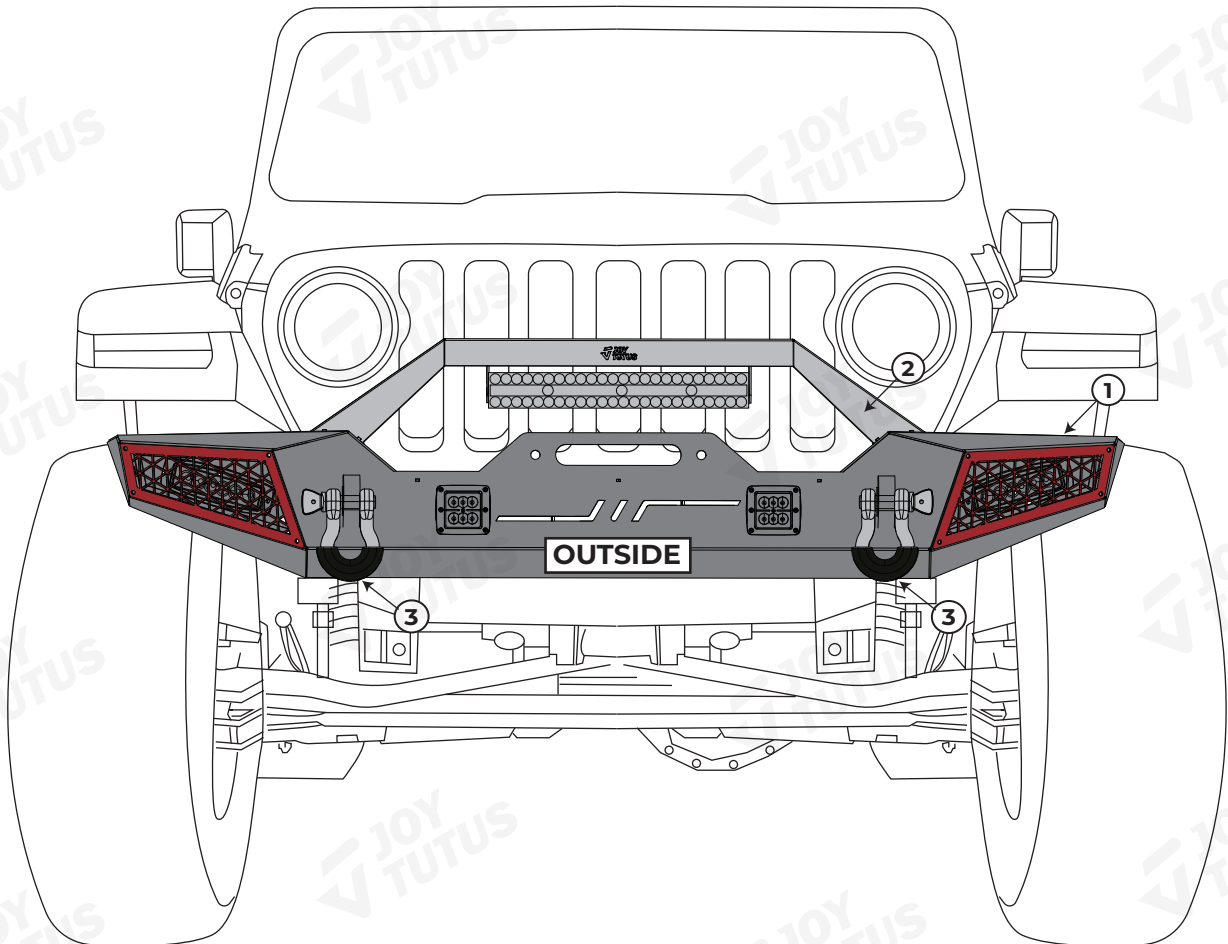


9 Φ6*16*1.0 Flat Washer *6
(Include 2 spares)



10 M6 Flange Nuts *6
(Include 2 spares)

✓ INSTALLATION COMPLETION DIAGRAM



CUSTOMER SUPPORT

Contact us by email:
service@joytutus.com

JOYTUTUS help center:

<http://support.joytutus.com>

✓ INSTALLATION METHOD

STEP 1: Remove the original factory bumper.

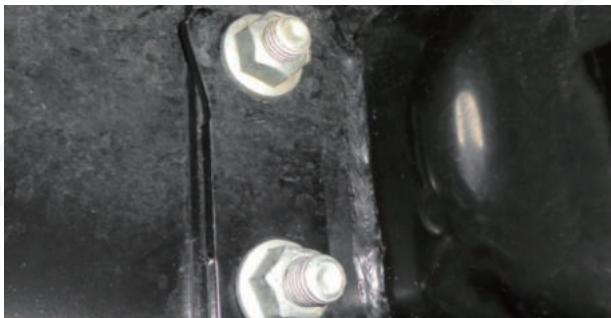
1) Remove the air dam from the underside of the stock bumper by removing the 6 retaining clips (4 exterior and 2 inside the air dam) with a set of pliers.



2) Remove the factory fog light connections by pushing the tab in on the brown connector and gently pulling out.



3) Remove the eight bumper attachment nuts using an 18 millimeter socket. Break the bolts loose with a breaker bar and then finish removing with a ratchet.



4) If you are installing a winch, remove the frame cover. This requires removing the center pin from the two clips, then pulling the clips out, or some prefer to leave it on if not running a winch, with applicable bumpers.



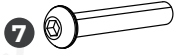
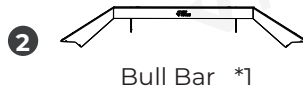
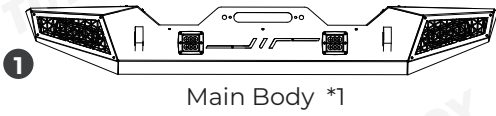
(Frame cover)

(Retaining clip locations)



STEP 2: Assemble the new bumper.

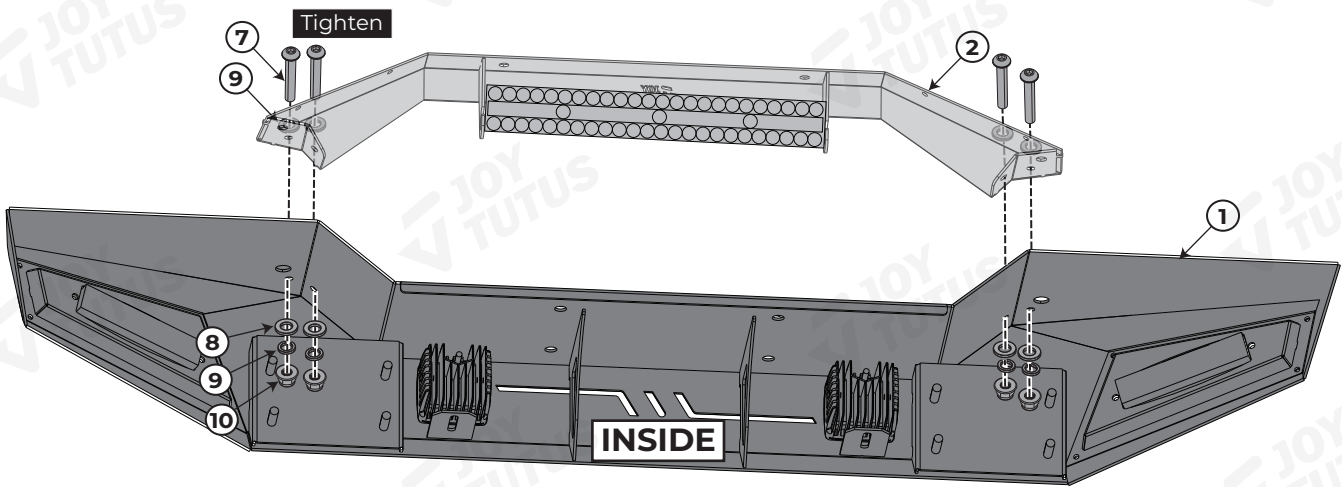
Required accessories:



You need to prepare the 4mm, 17mm sockets, torque wrench, and ratchet wrench by yourself.

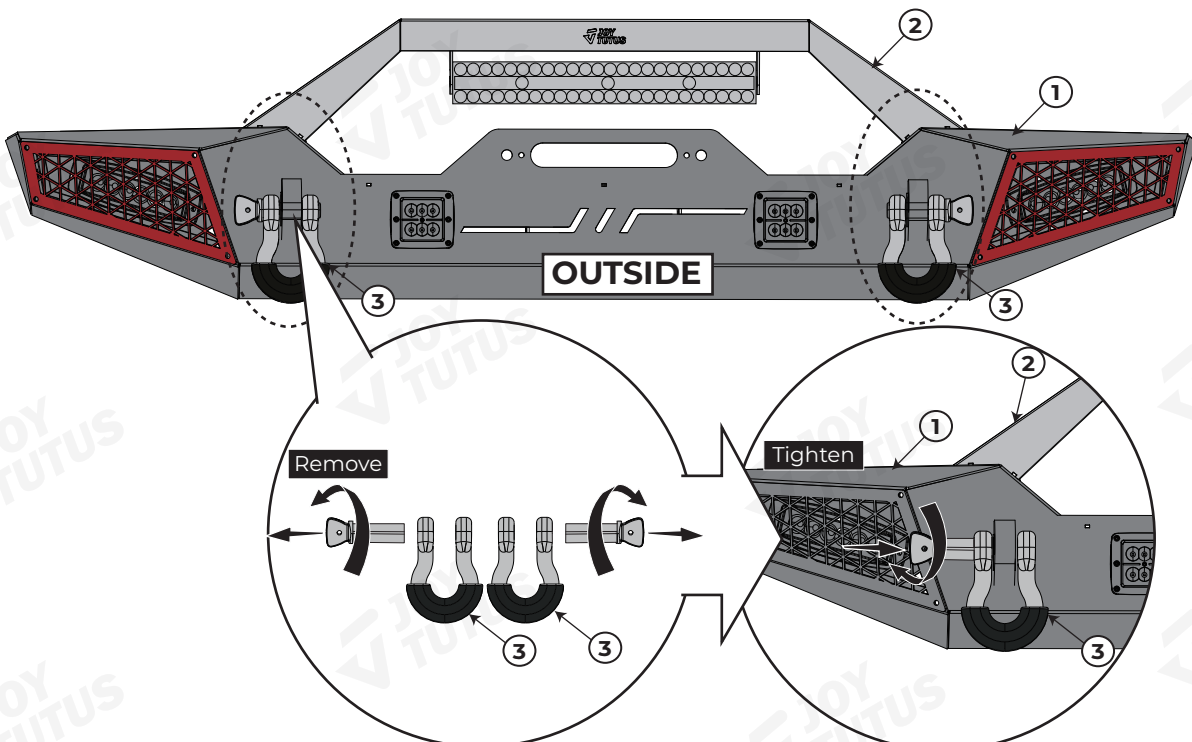
STEP 1-1

- 1) Secure Components [1] and [2] using Parts [7], [8], [9], and [10].
- 2) Tighten the M6 hardware to 15 ft.lbs of torque.



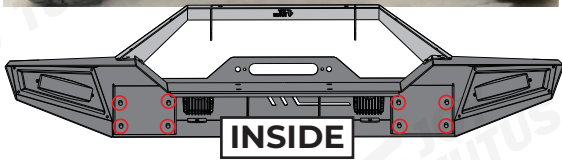
STEP 1-2

Just install the D-rings on both sides.

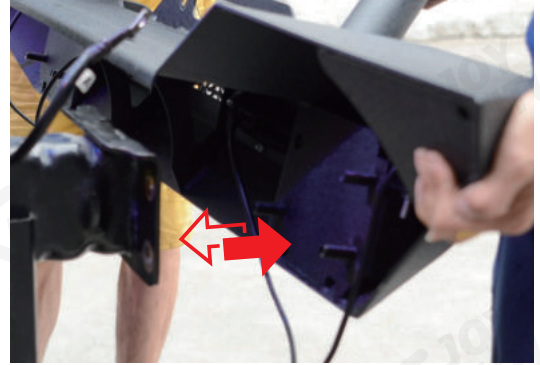


STEP 3: Install the new bumper.

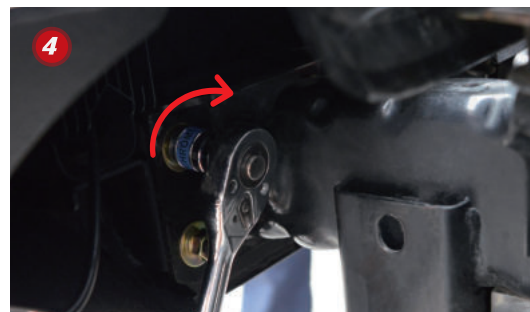
1) The Joy Tutus front bumper has 4 bolts on each side. These 4 bolts can slide directly into the mounting holes left when the original bumper was removed.



2) Now it's time to bolt the bumper up into place. Ideally, a second person would help hold the bumper into place.

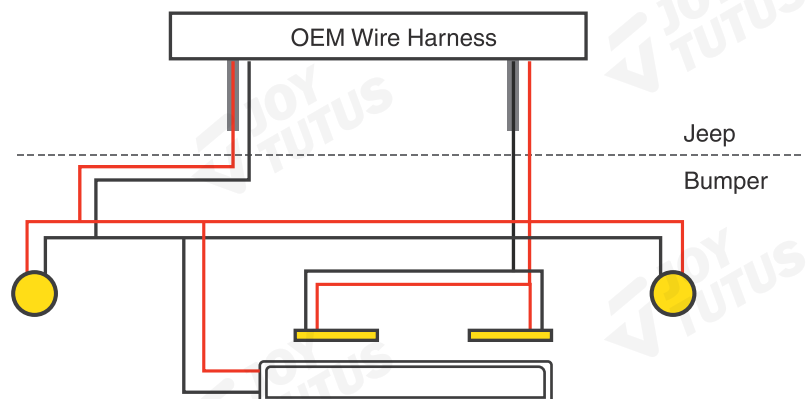


3) Each of the 3 pre-installed bolts will attach with a flat washer, lock washer and nut. All 8 bolts connections will be tightened as shown partially completed in the following pictures.



STEP 4: Wiring installation.

These wires instructions show you one way to run all 5 LED lights from the OEM fog light switch. Cut the OEM fog light socket free from the OEM wire harness and strip the ends still connected to the Jeep. You will not need the light socket or bulb for the new bumper. Following pictures shows how the wiring connections will be made.



Installation Images Disclaimer :

All installation images provided are for reference purposes only. The actual product may vary slightly from the images shown. However, the installation process remains the same.

Safety Reminder:

For your safety, please regularly inspect all accessories connected to the vehicle to ensure they are securely fastened and functioning properly.

Important Electrical Notice:

This bumper includes integrated LED lights that require proper power connection. Incorrect installation may cause permanent damage to the lights or your vehicle's electrical system, and could pose a safety risk. If you are not experienced with vehicle wiring, we strongly recommend having the connections made by a qualified professional installer.

Light Parameter Display:

Light name	Light model	Picture	Quantity	Power	Input voltage	Ingress protection rating
long strip light	D6		1	84W	10-30V	IP 67
Work light 2	D2		2	42W	10-30V	IP 67
Work light 3	D3		2	48W	10-30V	IP 67

WARNING

FCC STATEMENT :

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- (1) Reorient or relocate the receiving antenna.
- (2) Increase the separation between the equipment and receiver.
- (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- (4) Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

If you have any questions, please visit Joytutus website for quick response.

Web: www.joytutus.com