

INSTALLATION MANUAL

PRODUCT: **FRONT BUMPER**
MODEL: **TOYOTA HILUX (2011-2015)**
PART NO: **2D.5707.1.B-NL**



CAUTION!

To reduce the risk of serious injury or damage, please read and understand all instructions and procedures before attempting to install or use this product.
Safety glasses must be worn at all times during installation or maintenance of this product.
Ensure all mounting bolts are tensioned after 1000 kms and periodically there after.

NOTICE

Whilst the bumper adds additional protection to your vehicle, precautionary measures still need to be taken to avoid damage.
Always drive to the conditions and your surroundings.

ADR69 COMPATIBLE
AIR BAG COMPLIANT

FRONT BUMPER

Part Number:	2D.5707.1.B-NL
Suited to vehicle:	Toyota Hilux 2011-2015
Material:	aluminum / steel
Dimensions:	1845 x 710 x 520 mm
Weight:	40 kg
Compatibility:	DT-UBA07 Underbody Armour



SAFETY NOTICE

- * The RIVAL Bumper is designed to compliment the use and design of the specified vehicle under conditions specified by the car manufacturer.
- * While driving the vehicle at any speed, collision with any other vehicle, animal or object must always be avoided.
- * Following any collision with any other vehicle, animal or object, the RIVAL Bumper and the vehicle must be inspected by a specialized or suitably qualified vehicle repairer for possible damage to the components and assemblies in order to confirm suitability for further use of the vehicle.
- * It is strongly recommended that you do not operate a vehicle with a damaged bumper or its components. In the case of damage, please contact the nearest RIVAL authorised stocklist.
- * The operation of a vehicle where the bumper is not properly attached and fastened to the vehicle, or where the bumper has been damaged, is extremely dangerous and must be avoided at all cost.
- * It is recommended that you carry out regular inspections of all the bumper elements such as all bolts, wires, connectors.

INSTALLATION NOTICE

- * The RIVAL Bumper must be mounted and affixed to the vehicle according to this installation manual.
- * Personal safety during the installation process must be adhered to at all times and the use of personal safety equipment is highly recommended.

REQUIRED TOOLS

- * Basic tool kit
- * Electric drill
- * Angle grinder
- * Drill set
- * Torque wrench
- * Box knife
- * Marker

TORQUE SETTING

- * M6 9 Nm
- * M10 44 Nm

*ADR69 and Air Bag System

The RIVAL Bumper has been tested and certified to be compatible with ADR69 and will not affect the operation of the Air bag System on this vehicle.

This product or mounting brackets must not be modified in any way, and must be fitted in accordance with the installation instructions.

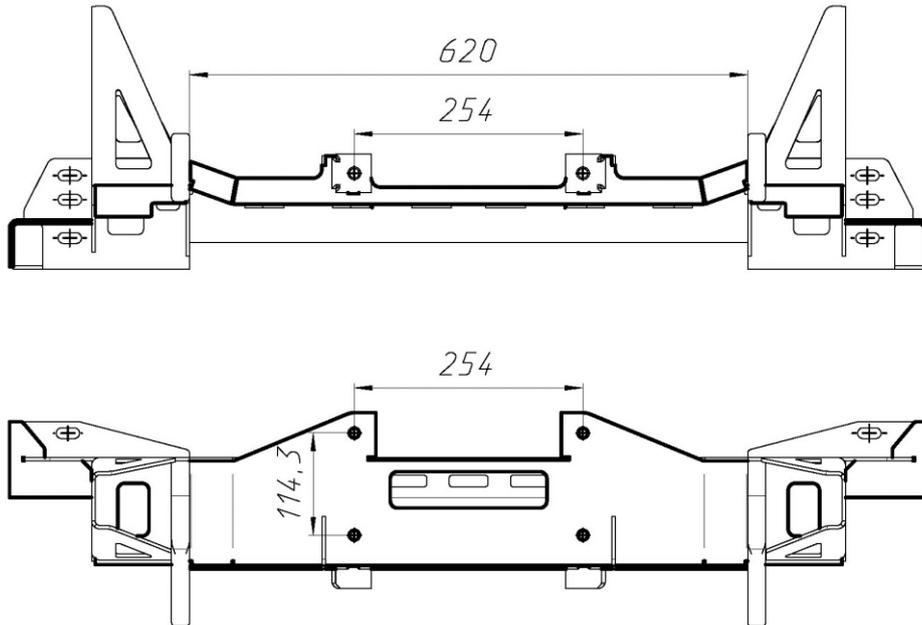
IMPORTANT NOTE

If the FRONT Bumper is to be colour coded it is the installers responsibility to check the fitment and alignment of the Bumper to the vehicle before painting is done. It is the painters responsibility to ensure that the Bumper is correctly prepared and high filled to achieve a quality finish. RIVAL is not liable for any costs associated with colour coding, or fitment issues post colour coding.

*WINCH INSTALLATION

A winch with a pull capacity of up to 12000 lb can be installed with the RIVAL Bumper. It is not advisable to exceed this pulling capacity since damage, injury or death may occur where the 12000lb recommended capacity is exceeded. There is a special license plate holder supplied with the bumper which will provide access to the winch.

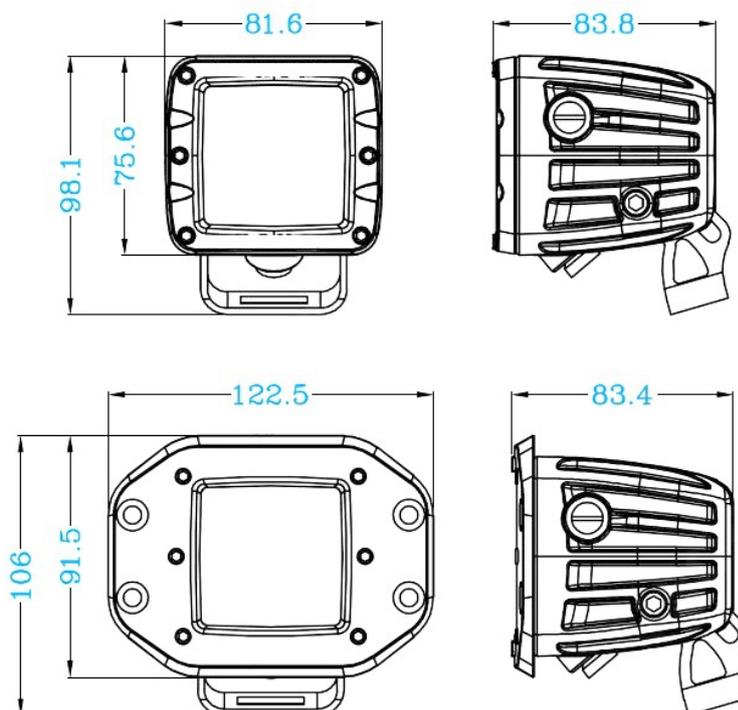
Winch measurements:



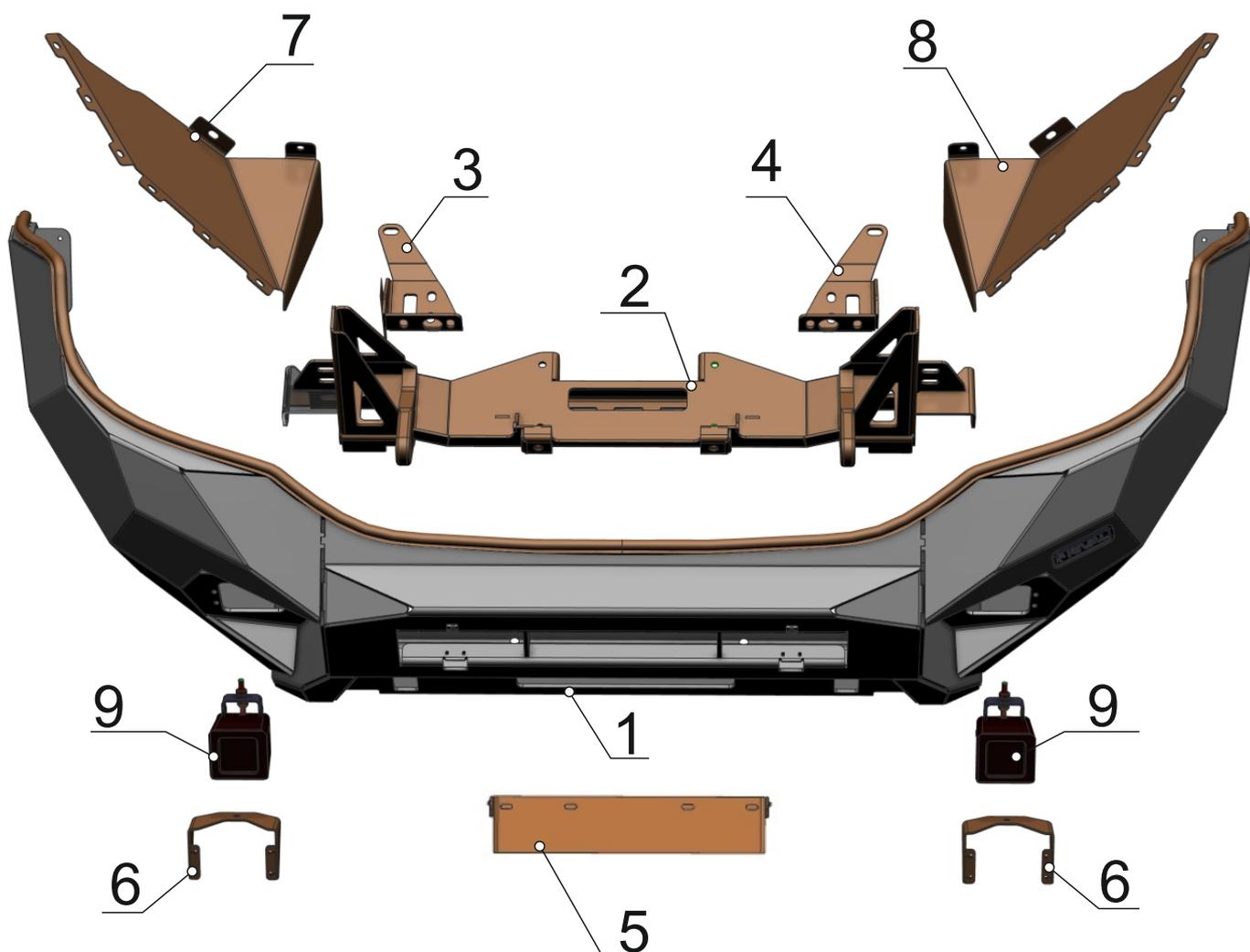
Winch size limits:

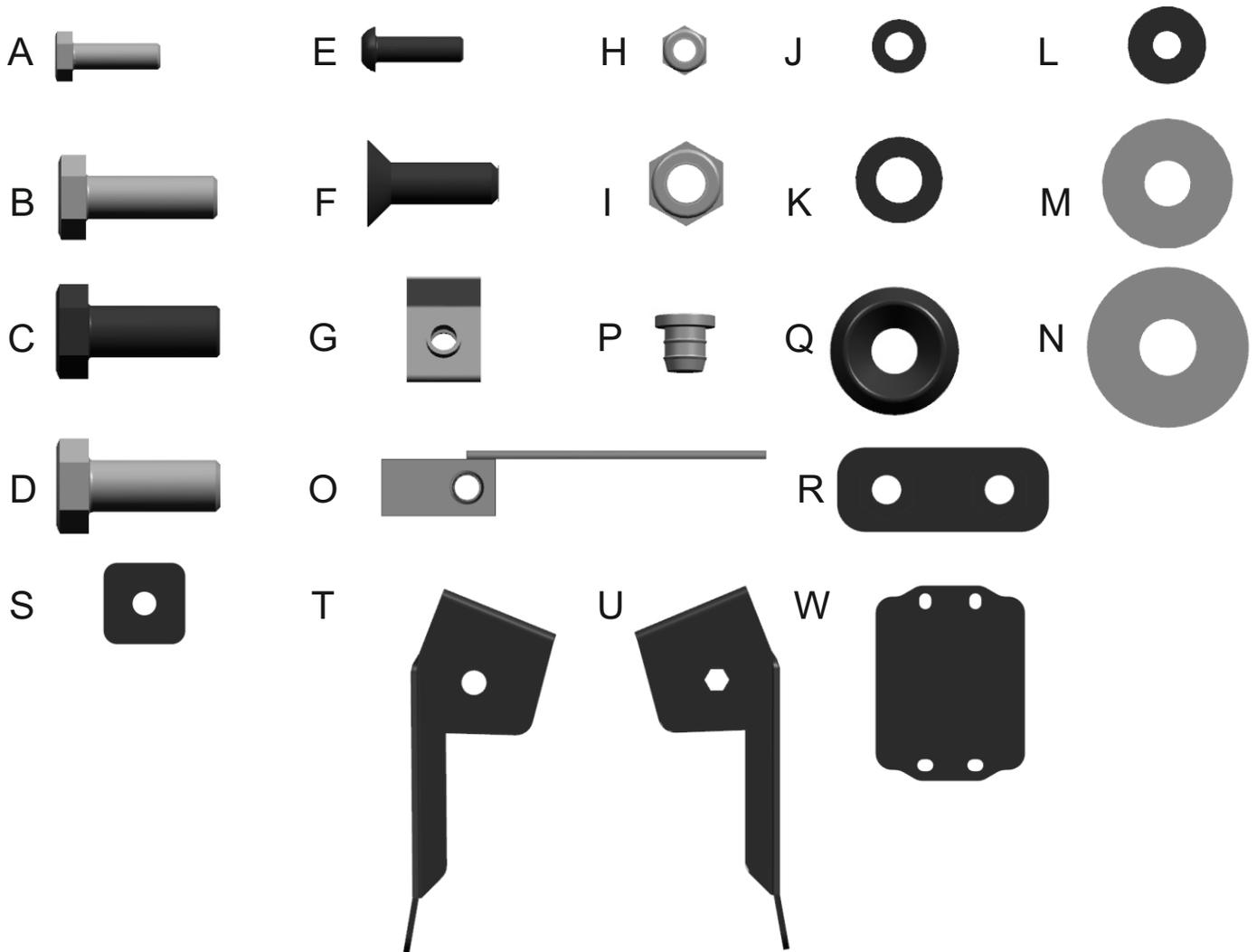
L 620 x W 180 mm x H 250 mm

Compatible with LED size below:



- 1. Aluminum bumper body.....1 pc.
 - 2. Winch bracket.....1 pc.
 - 3. Adapter right.....1 pc.
 - 4. Adapter left.....1 pc.
 - 5. License plate holder.....1 pc.
 - 6. LED brackets.....2 pc.
 - 7. Flap right.....1 pc.
 - 8. Flap left.....1 pc.
 - 9. LED lamp, distance head (depending
on the parts listing).....2 pc.
- 1
pc.c.





A. Bolt M6x20.....	2 pc.	L. Washer penny M6.....	8 pc.
B. Bolt M10x30.....	10 pc.	M. Washer penny M10.....	18 pc.
C. Bolt M12x30x1,25.....	2 pc.	N. Washer penny M12.....	6 pc.
D. Bolt M12x30.....	4 pc.	O. M10 nut plate.....	2 pc.
E. Screw M6x20 round-head.....	28 pc.	P. Washer fluid bottle plug.....	1 pc.
F. Screw M10x30 countersunk-head...	4 pc.	Q. Countersunk washer.....	4 pc.
G. U-nut M6.....	16 pc.	R. 2xM12 nut plate.....	2 pc.
H. Nut M6.....	6 pc.	S. Nut plate.....	2 pc.
I. Nut M10.....	12 pc.	T. Radiator grill bracket left.....	1 pc.
J. Washer M6.....	30 pc.	U. Radiator grill bracket right.....	1 pc.
K. Washer M10.....	8 pc.	W. Lamp plug.....	2 pc.



1. Open the bonnet and remove all scrivenets holding the grill in place.

Set aside scrivenets removed for re-use later on.



2. Remove upper grill retaining screws.

Set aside for re-use later on.



3. Remove plastic scrivenet.



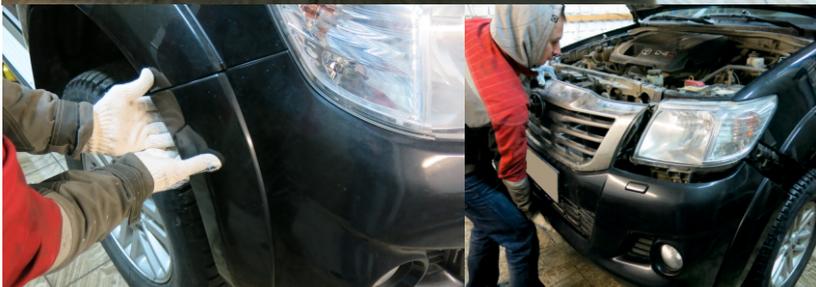
4. Remove lower bumper retaining screws and scrivets.



5. Remove lower bumper retaining screws.



6. Remove M6 bolts out of the bumper.



7. Carefully remove bumper from vehicle by pulling on each side of the bumper near the wheel arches and working your way towards the centre.

Disconnect lights.
Disconnect the washer fluid hose.

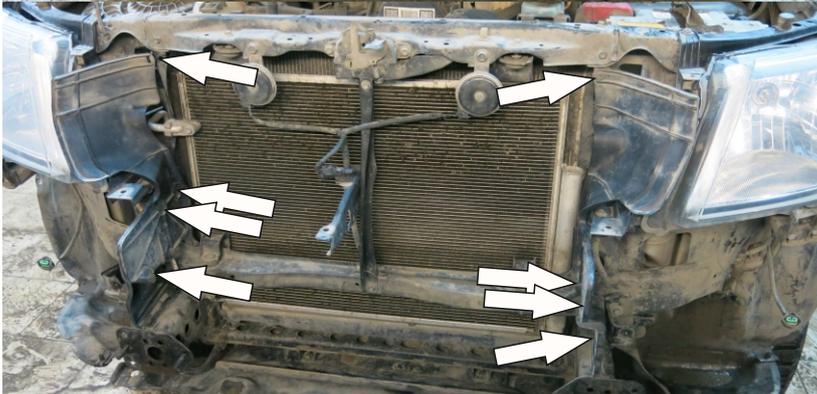


8. Remove nuts and plastic deflector from vehicle and discard.

Set aside for re-use later on.



9. Remove M6 bolts to remove the brackets.



10. Remove plastic scrivenets and remove plastic side deflectors.



11. Remove M6 bolts.
Remove side brackets.



12. Remove screws.
Remove plastic brackets from the lights.



13. Remove M6 bolts and scrivets. Remove plastic side fittings.



14. Screw OE bolts M6 back in to fix light.



15. Disconnect washer fluid bottle. Remove the pump and insert the supplied plug (P) instead.

*If vehicle is not fitted with headlight washers, please disregard this step.



16. Mount support bracket (3) and fix it with bolt M12x30x1,25 (C) with washer penny M12 (N).

DO NOT TIGHTEN YET.

Winch bracket bar has been mounted to bumper for transport purposes. Please remove the winch bracket before you begin installation.



17. Place bolts M10x30 (B) with washers penny M10 (M). Push support bracket to the front of the chassis. If there is a gap of more than 2mm, place washers penny M10 (M) inside.

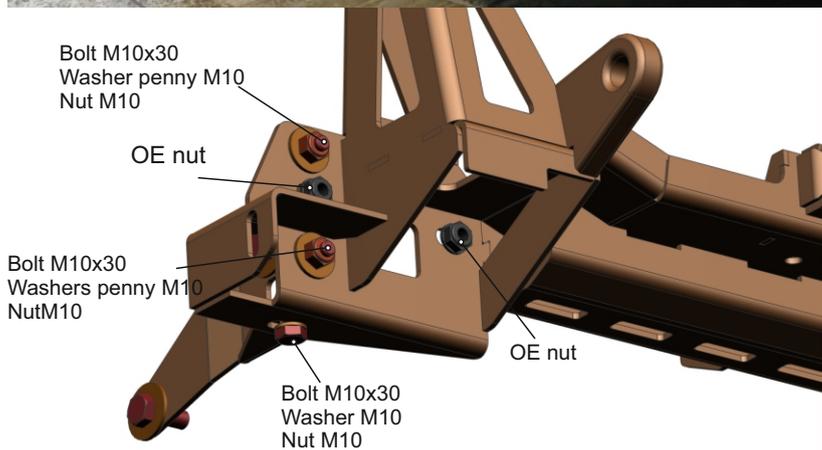


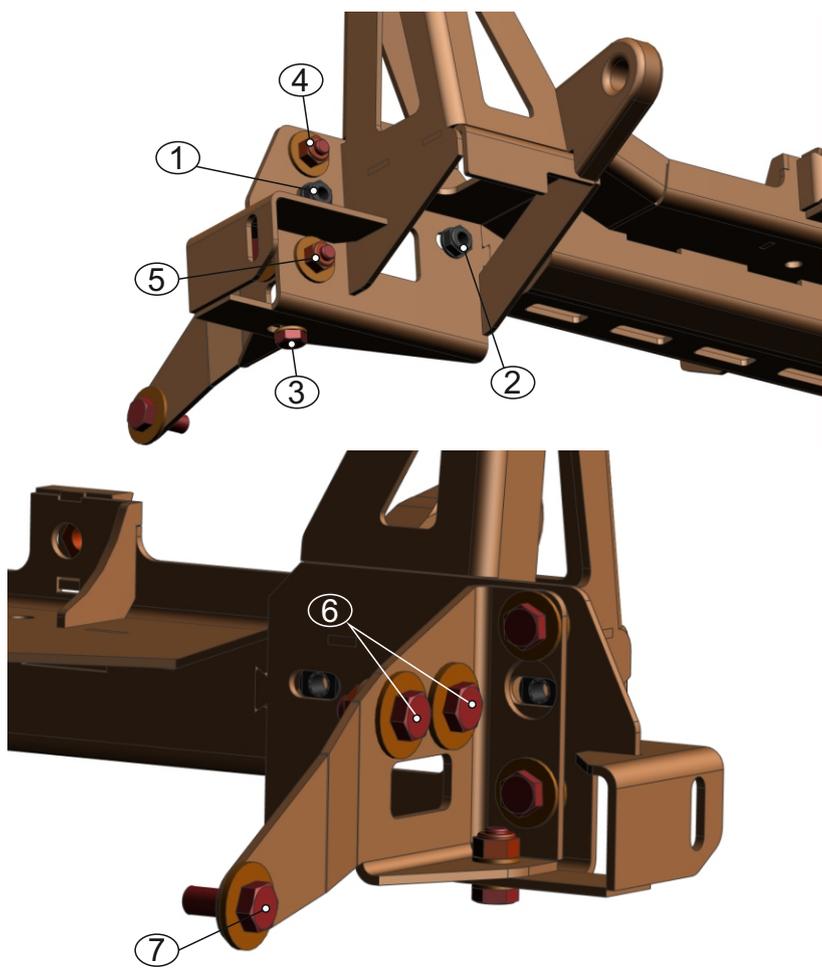
18. Place insert nut 2xM12 (R) inside of the chassis. Screw on bolts M12x30 (D) with washers penny M12 (N).
DO NOT TIGHTEN YET.

Repeat steps 16 to 18 from another side of the vehicle.



19. Mount winch bracket (2). Use OE bolts and supplied bolts M10x30 (B), washers M10 (K), washers penny M10 (M) and nuts M10 (I) from the fitting kit bag.





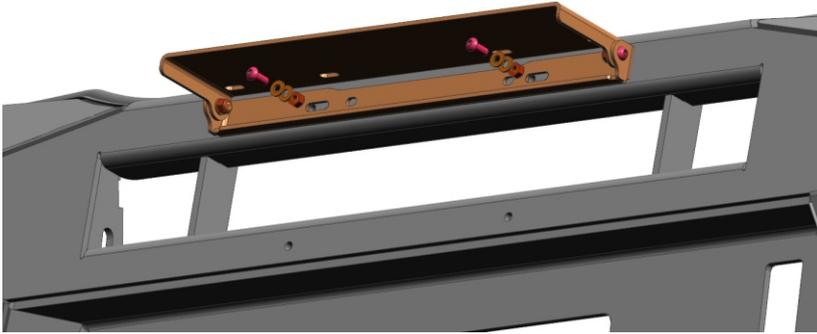
20. Align winch bracket (2) horizontally and vertically.

Tighten bolts on both the left and right side in order shown.

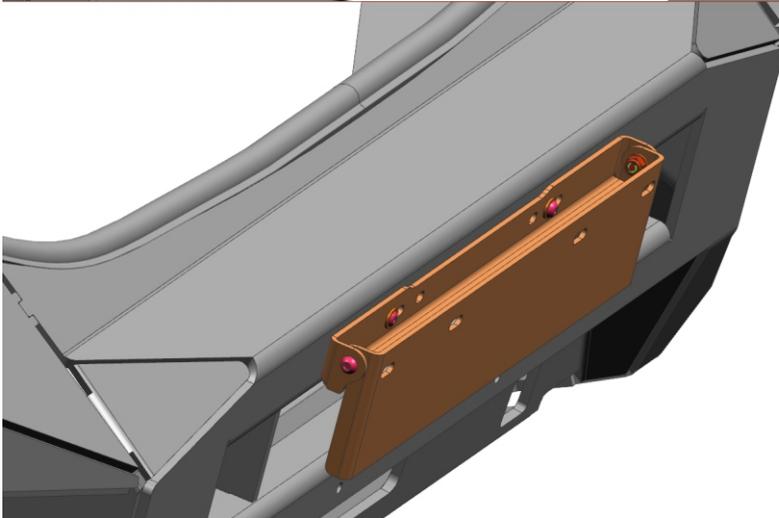


21. Mount the winch (not supplied) following the winch installation instructions supplied with the winch manufacturers.

22. Install the number plate bracket (5) using screws M6x20 (E), nuts M6 (H) and washers 6 (J).

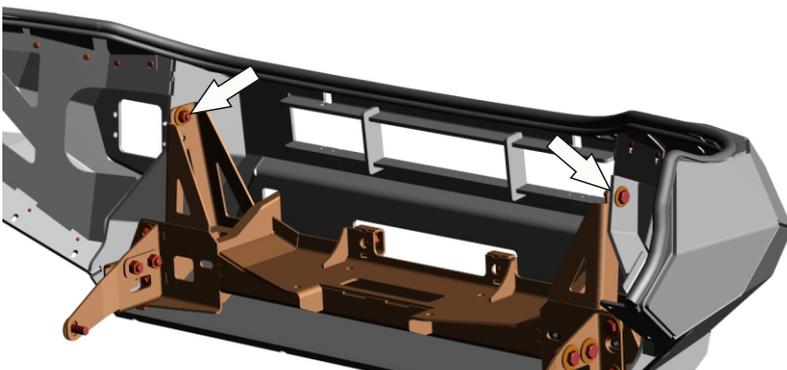


23. Adjust the number plate bracket (5), tighten all the threaded junctions.





24. Install bumper body (1) onto the vehicle, make sure the plastic fender goes inside.



25. Mount bumper body (1) onto the winch bracket (2) using bolts M10x30 (B), washers penny M10 (M) and nuts M10 (I).

DO NOT TIGHTEN YET.



26. Place insert nut plate M10 (O) as shown. Screw blind-head bolt M10x30 (F) with countersunk washer (Q).

Repeat this step on the other side.

DO NOT TIGHTEN YET.

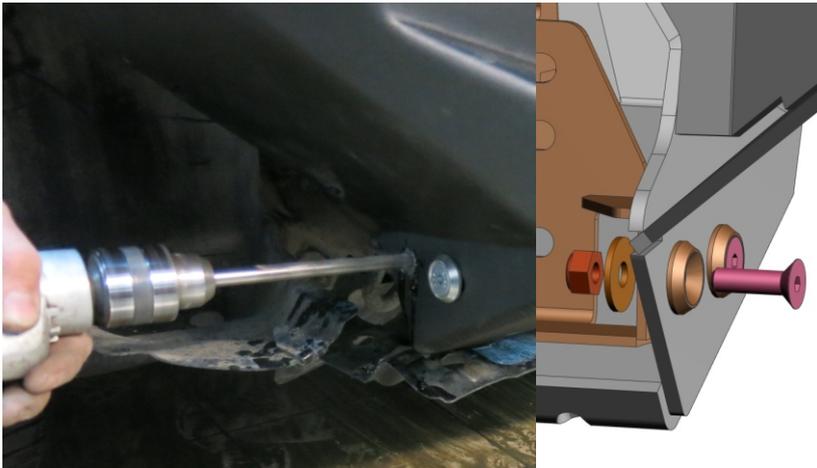


27. Adjust bumper (1) so that there is an equal gap between the bumper and the vehicle body on both sides.

The gap should not be less than 18mm. A gap between the headlights and the rubber profile is acceptable.

Tighten the bolts.

Check if both sides are symmetrical. If adjustment is needed, go back to step 20.



28. Using a 10mm drill bit drill a hole through the bumper body and the winch bracket (2) from both left and right.

Tighten bumper body and winch bracket together using bolts M10x30 (F), countersunk washers (Q), washers penny M10 (M) and nuts M10 (I).



29. Using a 10mm drill bit, drill into the hole through the existing hole of the winch bracket (2) from both left and right. This is to increase the size of the existing hole.

Tighten bumper body and winch bracket together using bolts M10x30 (B), washers M10 (K) and nuts M10 (I).

Mount the hawse (not supplied) using nut plates (S).



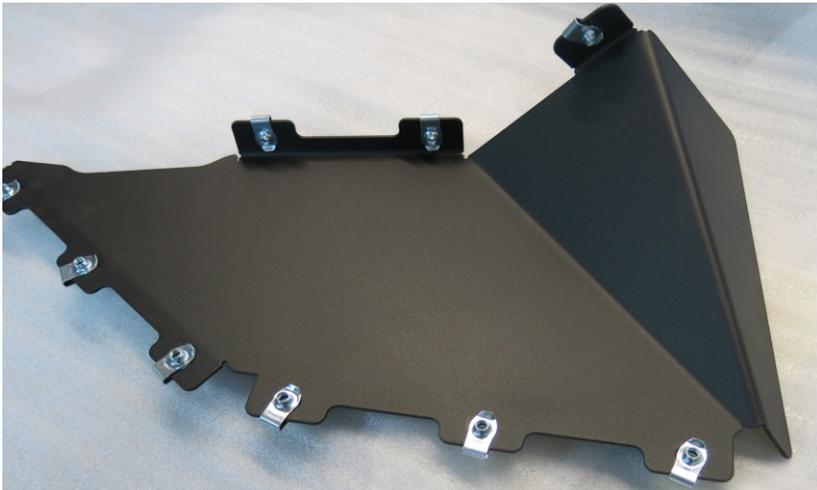
30. * Mount LED lights (9) into brackets (6). Adjust and tighten them.

*For a kit with LED.



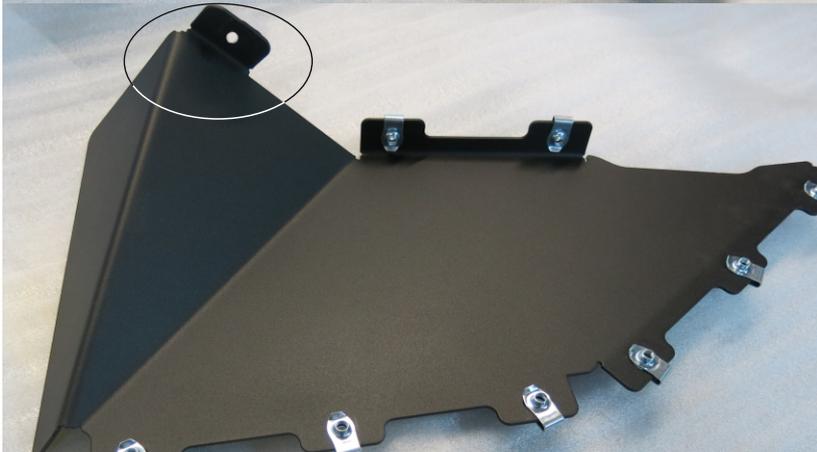
31. *Install brackets (6) with LED lights (9) using bolts M6x20 (A) and washers M6 (J). Adjust the LED position.

*For a kit with LED.



32. Place clamp M6 U-nut (G) on flaps (7, 8) as shown.

Do not install clamp on a rounded area.



33. Install flaps (7, 8) as shown using the bolts M6x20 (A) and washers M6 (J) supplied.

Push flap (7, 8) to plastic fender and mark cutting line. Remove flap and cut plastic fender following the marked cutting line using jig-saw or shears.

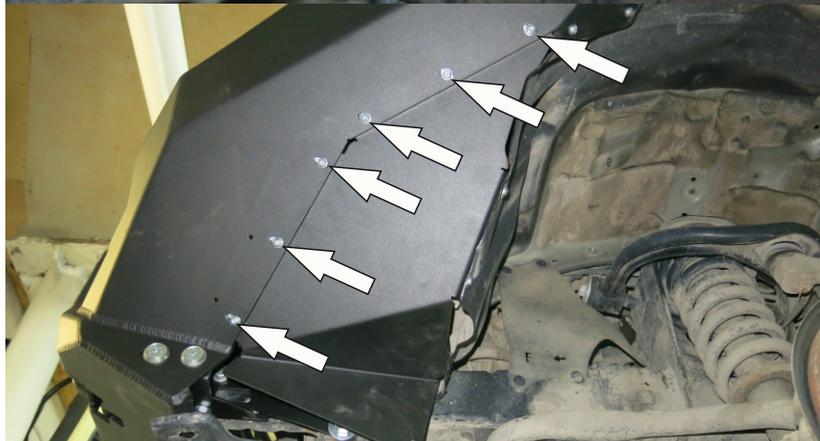
Caution: Use care not to damage the windscreen washer bottle or hoses when cutting LH plastic fender.



34. Using a 6-7 mm drill bit drill holes in plastic fender in accordance with holes in flap. Fix flaps with bolts M6x20 (A), washers M6 (J) and nuts M6 (H).



35. From the left, remove plastic scrivet. Place square nut M6 (G) instead.



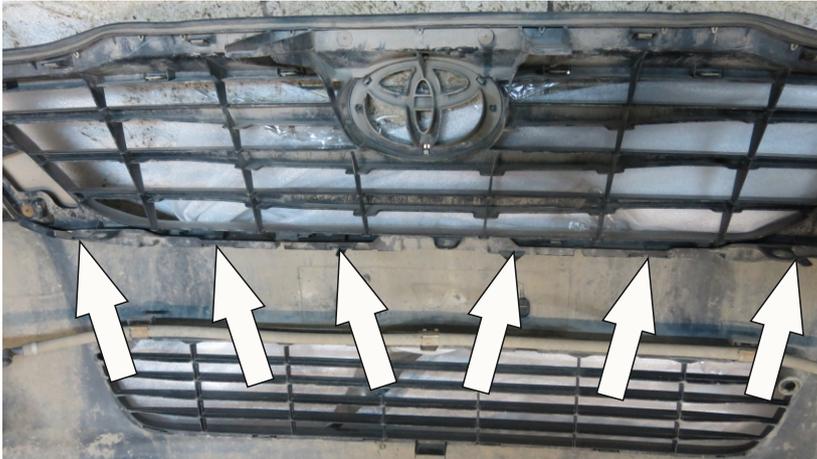
36. Install the flaps using screw M6x20 (E) and washers M6 (J).



37. Mark drill points on plastic fenders in accordance with the apertures in the flaps (7, 8). Using a 6-7 mm drill bit, drill holes.

Caution! Do not damage the nuts.

Fix the flaps using screw M6x20 (E) and washers penny M6 (L) as shown.



38. Remove radiator grill from OEM bumper.



39. Cut plastic brackets as shown so the brackets supplied for radiator grill (T, U) can be installed.



40. Remove bolts from the radiator grill as shown.

Install brackets supplied (T, U).

Place radiator grill on the vehicle. Fix it with OE scrivenets and bolts.



Before operating a vehicle fitted with RIVAL Bumper:

- make sure all fittings are tightened
- check winch operation
- check all electrical wiring attached to lights

