

CRAFTED LIKE NO OTHER

DON'T JUST SETTLE
FOR THE SAME
OLD BULL

OWNER MANUAL

TOYOTA
PRADO 150 2018+

AFN[®]
4 X 4 ACCESSORIES



WELCOME TO THE AFN FAMILY

This manual contains the **Toyota PRADO 150 +2018** fitting instructions for:
Bullbar Ref.: 48002477 **Front Bumper Ref.: 48002XXX**

1 INTRODUCTION

The Company

Founded in 1995, AFN - 4x4 Accessories dedicates itself to the production and commerce of all-terrain accessories. Its constant concern in its customers total satisfaction, and in the ideals of innovation and transformation have granted a position of notability both in the national and international panorama.

The only company in Portugal in the mass production of 4x4 accessories, relies on specialized and experienced technicians, with the most adequate knowledge, to an efficient response capability to its customers demands.

Thanks to the specialization in the several areas of design and manufacture and to a constant investment in technology, AFN has been broadening its wide range of products, without ever neglecting the quality factor.

4x4 Accessories

In its diversity of products we can include, with all-terrain quality, protection, safety and aesthetic accessories.

And it is here that AFN invest on the best technology, the best cut precision of the raw material, and the transformation of products with the quality recognized in the marketplace.

AFN has, at its disposal, resources to test and analyse the resistance of its products and stands in the front row regarding the European homologation of materials dedicated to all terrain.

The contact with the most important test laboratories for vehicles, both in England, Spain and Germany, provides AFN with the know-how to manufacture a wide range of quality products.

Our Design Approach

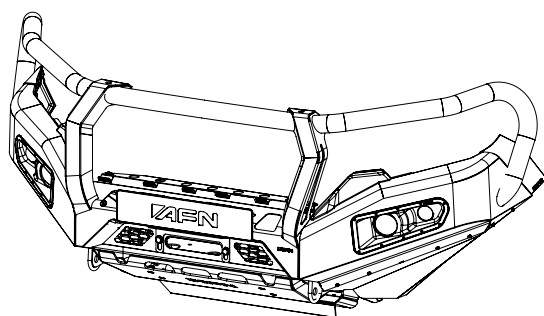
AFN designs each accessory taking into consideration the original model lines and fitting points. We refuse to have a "one design fits all" solution and we are always looking forward to embrace new challenges on how to adjust a new product into a new model!

The days of just throwing on a bit of steel together to form a protection system are gone. AFN is leading the way modern vehicle protection components are manufactured. Other will follow, and it won't be long where the AFN approach to Styling, Fit, Form and Function will become the benchmark for all other manufacturers.





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AFN 4x4 Accessories

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Part Ref.: **48002477**

Product: **Front Bumper**

Part Ref.: **4800XXXX**

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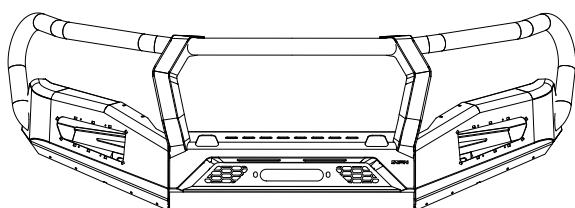


1 CHECKLIST



- In this section you have a checklist with all parts included for the installation of your AFN product
- This product should be installed as demonstrated in the product fitting instructions
- If verified that any component is damaged, please contact your nearest AFN distributor
- The specified parts will only fit in the models specified by AFN
- Do not modify any component of the product

This checklist is for product **48002477** and **XXXX**.



Ref.: 47002004



Ref.: 48002192

☐ X1



Ref.: 48002191

☐ X1



Ref.: 47002007

☐ X1



Ref.: 47002006

☐ X1



Ref.: 47002005

☐ X1



Ref.: 46007638
Thickness: 2 mm

☐ X2



Ref.: 46007637
Thickness: 4 mm

☐ X2



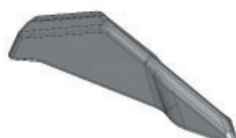
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☐ X1



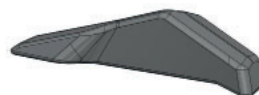
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☐ X1



Ref.: 46007634

☐ X1



Ref.: 46007633

☐ X1



Ref.: 46007632

☐ X1



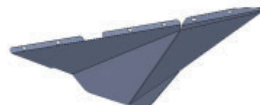
Ref.: 46007631 ☐ X1



Ref.: 46007630 ☐ X1



Ref.: 46007629 ☐ X1



Ref.: 46007628 ☐ X1



Ref.: 46007413
Thickness: 2 mm ☐ X1



Ref.: 46007412
Thickness: 4 mm ☐ X1



Stainless Steel
Ref.: 46007001
M12 ☐ X12



Ref.: 46006703 ☐ X2



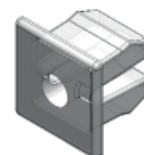
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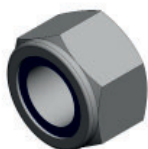
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Stainless Steel
Ref.: 45001123
M3,5x16 ☐ X10



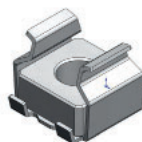
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M3,5 ☐ X10



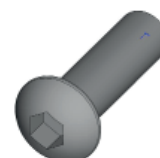
Stainless Steel
Ref.: 45001033
M12 ☐ X8



Stainless Steel
Ref.: 45001029
M12x40 ☐ X8



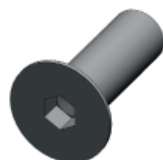
Ref.: 45001012
M6 ☐ X12



Stainless Steel
Ref.: 45000998
M6x20 ☐ X12



Stainless Steel
Ref.: 45000995
M12 ☐ X4



Stainless Steel
Ref.: 45000934
M10x30 ☐ X8



Stainless Steel
Ref.: 45000931
M6x15 ☐ X12



Ref.: 45000502 ☐ X2



Zinc Plated
Ref.: 45000462
M6x20 ☐ X3



Zinc Plated
Ref.: 45000361
M12x40 ☐ X2



Zinc Plated
Ref.: 45000044
M6 ☐ X3



Zinc Plated
Ref.: 45000036
M12 ☐ X2



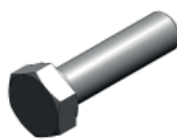
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Ref.: 45000011
M8

☐ X2



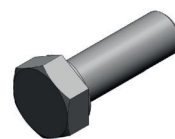
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M10

☐ X8



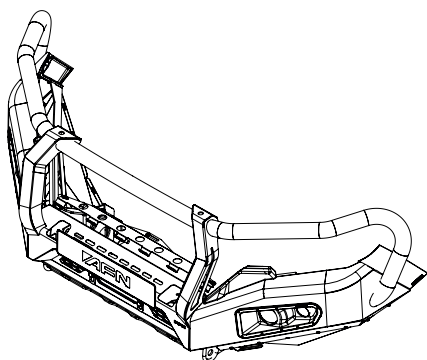
Zinc Plated
Ref.: 45000008
M8x30

☐ X2



Zinc Plated
Ref.: 45000007
M10x30

☐ X6





2 FITTING INSTRUCTIONS

WARNING:

Before you begin installation, read all instructions thoroughly.
Proper tools will improve the quality of installation and reduce the time required.

- This product should be installed as demonstrated in the *Product «Fitting Instructions»*;
- The specified parts, will only fit the models specified by **AFN**;
- Do not modify any component of the product;
- It is recommended that this product is installed by specialized and trained personnel;
- AFN doesn't take responsibility for changes made in the vehicle by its manufacturer;
- Work safely and use specialized tools at all times;
- **Always use protective gear.**

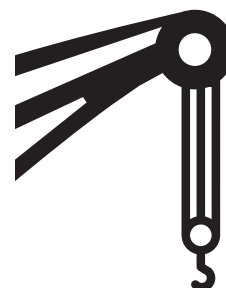
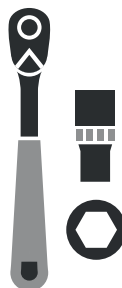


Size	Torque Nm	Torque lbft
M6	9 Nm	7 lbft
M8	22 Nm	16 lbft
M10	44 Nm	32 lbft
M12	77 Nm	57 lbft

Mouting Time

- 4 hours
- 2 persons (recommended)

Tools Required



- Screwdriver star head
- Screwdriver flat head
- Wrench
- Wire cutter
- Ratchet wrench
- Allen wrench
- Crane

Step 1

Remove the OEM* bumper just as specified by the vehicle manufacturer in your maintenance manual. (Be aware that you must save the OEM bolts and nuts.)

Also remove the grill of the vehicle and be careful so you don't break the fasteners of the grill.

If you done it correctly this is what it should look like.



Step 2

Before inserting the **AFN Bullbar | Bumper** on the vehicle there are some details that we advise to do first (so, place it on a flat working surface):

Start by fitting the **45001113** on the **AFN Bullbar | Bumper**. Give a little push to correctly assemble them.

Just finger tight all bolts and nuts - **Do Not tighten yet.**

Fit the plastic cover of part **48002192** on the Bumper. Bolts needed:

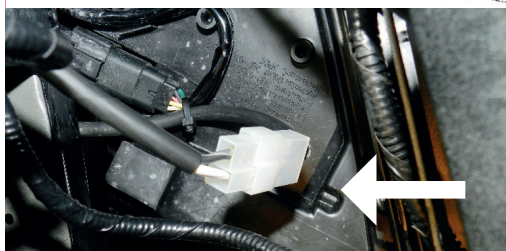
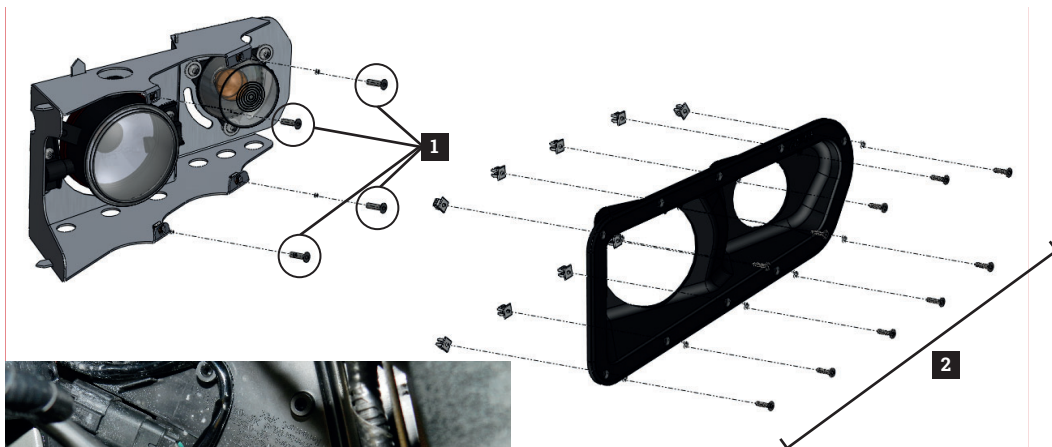
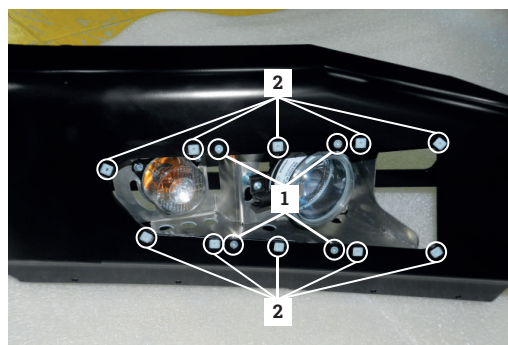
1 - **,
2 - 45001114; 45001113; **M3,5**
Do the same on the other side for part **48002191**.

ATTENTION!

Remember to attach the electrical wires for the fog lights and indicators, once the **AFN Bullbar | Bumper** is fitted on vehicle.

We advise to do a test in order to check if all the lights are correctly working.

****NOTE:** These references for the Fog Lights, are not in this checklist, but they follow the kit **48002192** and **48002191**.

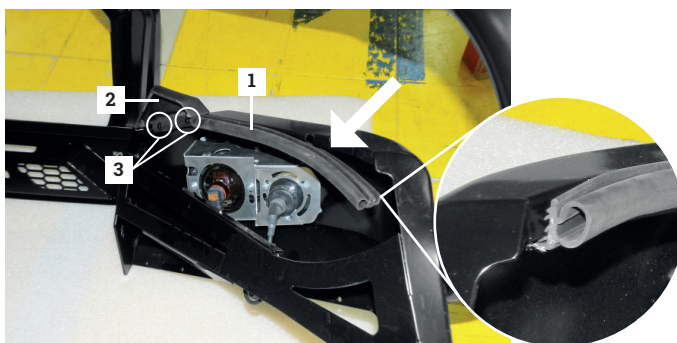


Step 3

Fit the **Rubbers**, on the **AFN Bullbar | Bumper**.

Parts needed:
1 - 45000502;
2 - 46007633;
3 - 45001127;

Repeat this step on the other side for part number **46007634**.



Step 3 (Continuation)

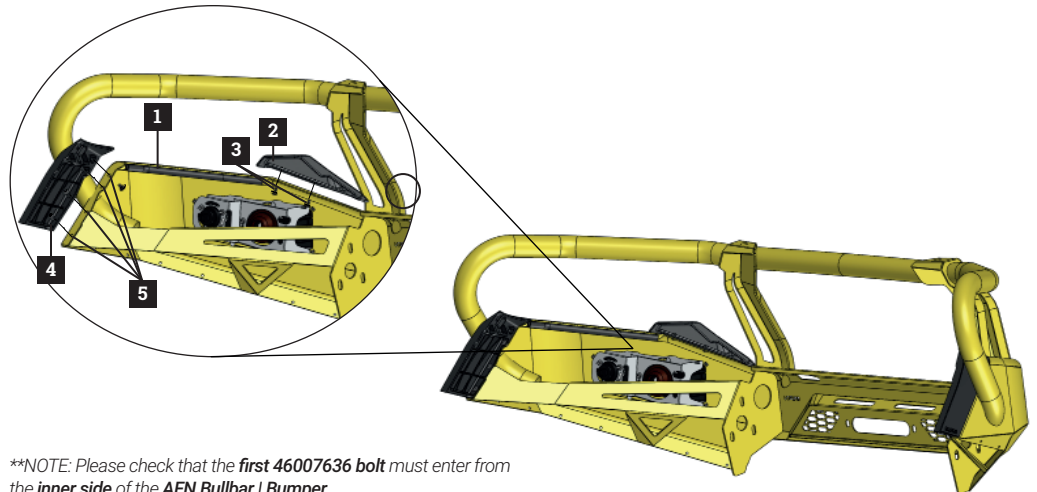
Fit part number **46007636** - **Back Rubber**.

See example with all the **Rubbers**, on the **AFN Bullbar | Bumper**.

Parts needed:

- 1 - 45000502;
- 2 - 46007633;
- 3 - 45001127;
- 4 - 46007636 **;
- 5 - 45001127;

Repeat this step on the other side for part number **46007635**.



Give the final torque.

****NOTE:** Please check that the **first 46007636 bolt** must enter from the **inner side** of the **AFN Bullbar | Bumper**.

Step 4

Fit the **Winch Mount - 47002005** onto the **Chassis**.

Bolts needed:

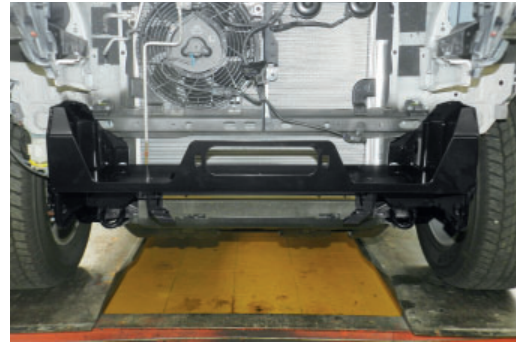
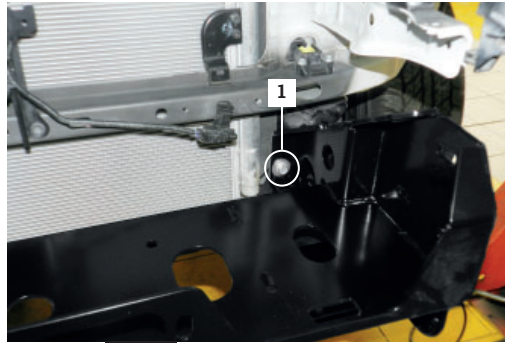
- 1 - **OEM*** Bolt; 45000010; **M10**

Repeat this step on the other side.

If you done it correctly this is what it should look like.

Just finger tight both bolts

Do Not tighten yet.



Step 5

Fit part number **47002007** on the outer side, as showed.

Parts needed:

- 1 - 46006703;
- 2 - **OEM*** Bolts;
- 3 - 45000007; 45000010; **M10x30**
- 4 - 45000008; 45000011; **M8x30**
- 5 - 45000361; 45000036; **M12x40**

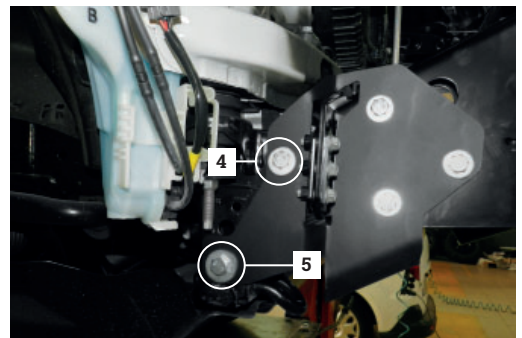
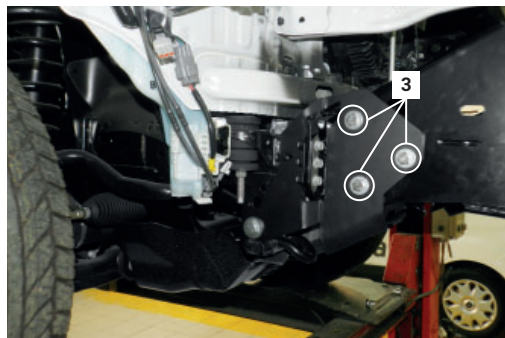
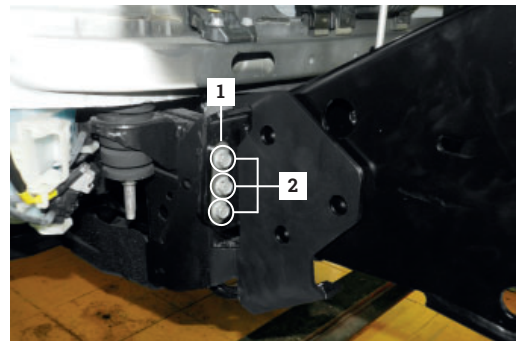
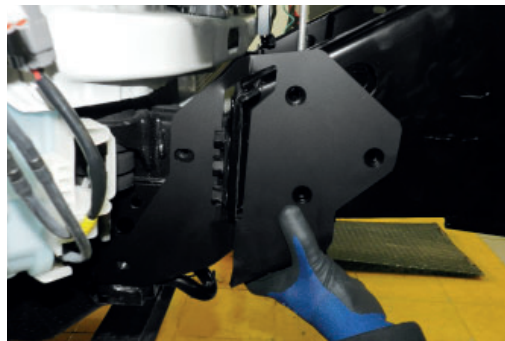
Repeat this step on the other side for part **47002006**.

Just finger tight all bolts and nuts

Do Not tighten yet.

ATTENTION!

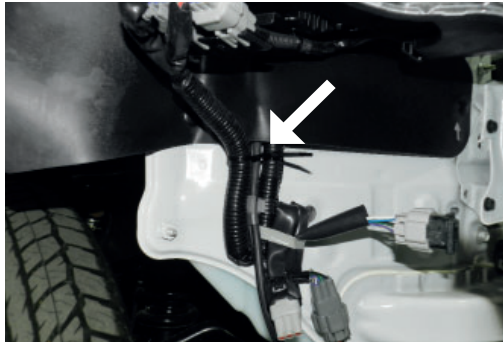
Before proceeding to the next step we advise to use a zip tie holding the lights cable (see #5).



Step 5 (Continuation)

ATTENTION!

Before proceeding to the next step we advise to use a zip tie holding the lights cable.



Step 6

With help of another person or a crane, lift the **AFN Bullbar 48002477 | Bumper** and place it over the **Winch Bracket**.

Mind that this is a precision task, please take time to correctly assemble this step.

Bolts needed:

1 - 45001029; 45007001x2;
45001033; **M12**

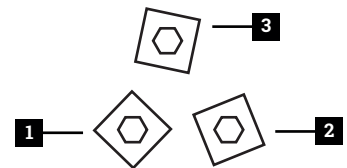
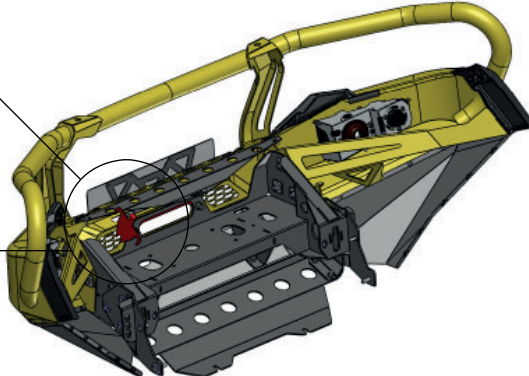
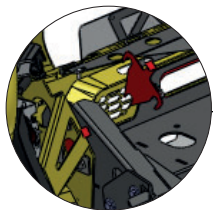
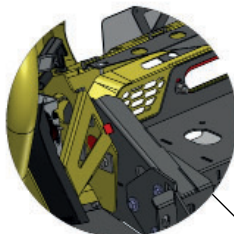
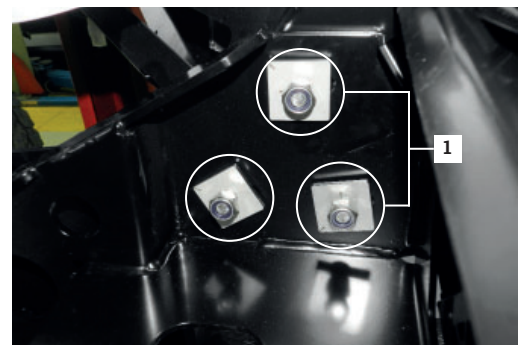
Repeat this step on the other side.

Just finger tight all bolts and nuts - **Do Not tighten yet.**

We highly recommend to follow this tightening order, once everything is in place.

Use the supplied shims (**46007637** and **46007638**) to adjust the best way the **AFN Bull Bar | Bumper** to the body and chassis.

Use it only if you have to, they are optional and may not be needed.



Keep this one always finger tight. It will only be fully tightened when all the bolts on the **Winch Bracket** and the **AFN Bullbar | Bumper** are.

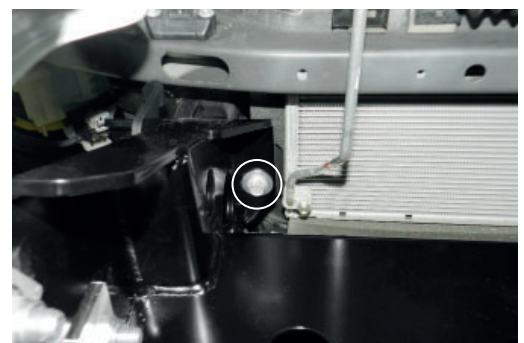
Step 7

Before giving the final torque, adjust the best way the **AFN Bullbar | Bumper** to the body and chassis.

When the **AFN Bull Bar | Bumper** is in place, start by tightening all the bolts.

Give the final torque on the winch bracket's bolts.

We highly recommend to follow this tightening order, once everything is in place.



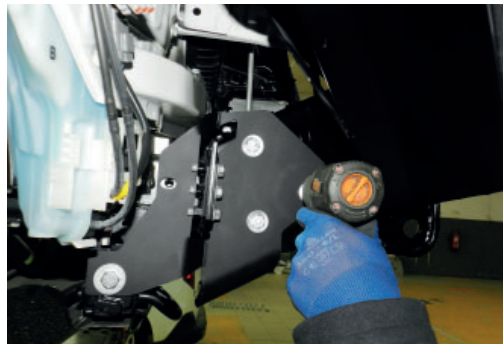
Step 8

Adjust the **AFN Bullbar | Bumper** until you have almost **no gap** between vehicle body and the bumper on both sides.

Check to make sure the **AFN Bullbar | Bumper** is levelled.

Adjust it if necessary and fully tighten all bolts.

Give the final torque.



Step 9

Fit part **46005518 - Plate Bracket****.

Bolts needed:

1 - 45001029; 45000995 **x2**;
45001033; **M12x40**

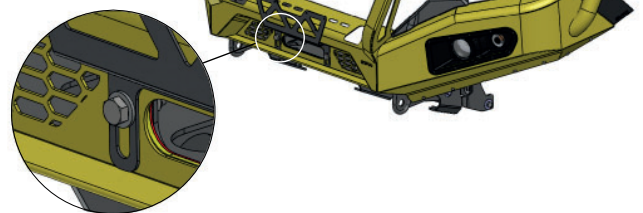
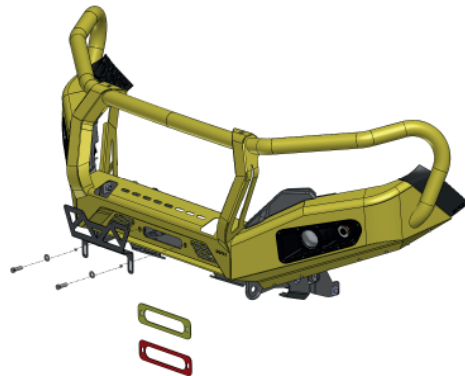
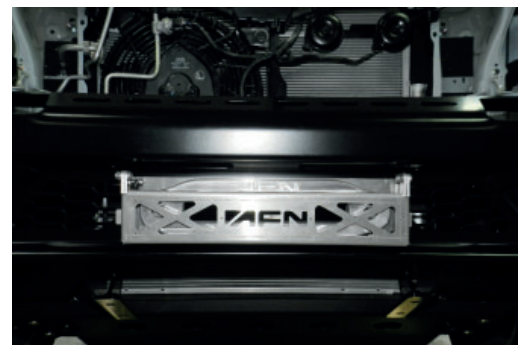
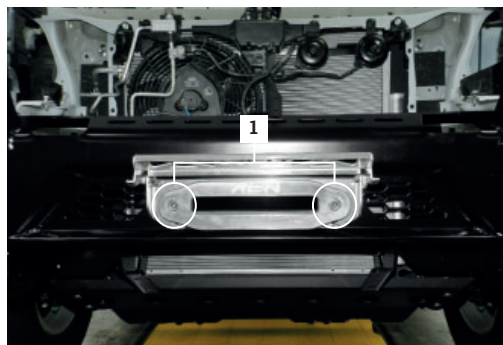
We do recommend using the supplied shims if the **Bull Bar | Front Bumper** is not aligned with the body. The shims must be fitted between the **Bull Bar | Front Bumper** and the **Winch Bracket**. Check the figure to fit them in the right place.

2 - 46007413 - thickness: **2mm**
3 - 46007412 - thickness: **4mm**

Use it only if you have to, they are optional and may not be needed.

Once everything is in place and according to your personal preferences, **Give the final torque** on the bolts for part **46005518 - Plate Bracket**.

NOTE: In the checklist for TOYOTA PRADO 150 the standard goes with plate bracket with part number **46005518. If you prefer, you can also purchase the one on the figure with part number **4800XXXX**.



Step 10

Fit part **46007629**.

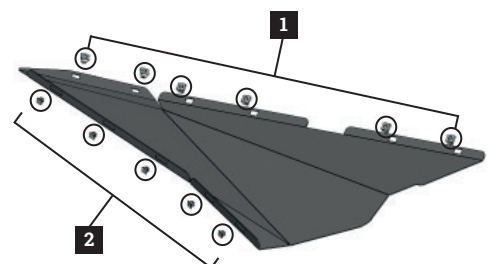
Finger tight all bolts and nuts before given the final torque.

Bolts needed:

1 - 45001113;

2 - 45000998; 45000931;
45001012; **M6**

Repeat this step on part **46007628**.



Step 10 (Continuation)

Push the flaps **46007629** to OEM* plastic fenders and mark the cut line, then cut OEM* plastic fender. Mark a hole on the inner side of wheel fender from both left and right side of vehicle.

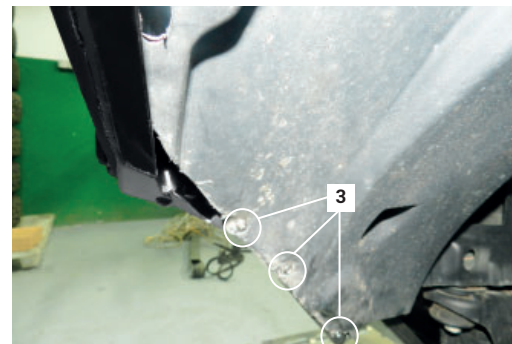
Drill a **2mm** diameter hole.

Fix the flaps through these holes using:

3 - 45001123; 45001113; **M3,5**

Repeat this step on part **46007628**.

Give the final torque.

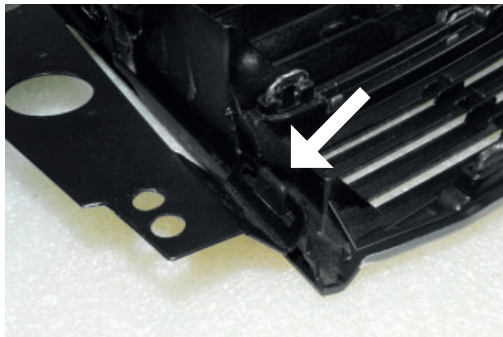
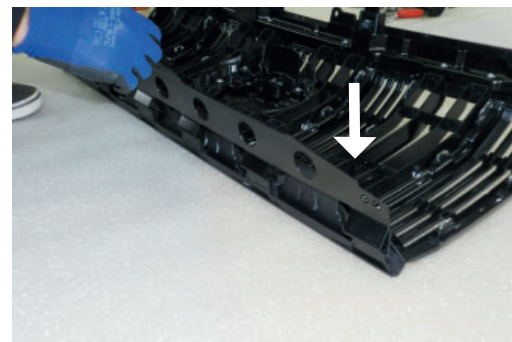


It's easier to cut plastic fender when the flaps are not installed.

Step 11

Fit part **46007632 - Grill Bracket** on the OEM* grill, through the fasteners (see image).

It enters from above and then gently rotate the **Grill Bracket**, until it passes through all the OEM* grill fasteners.



Step 12

Fit the OEM* grill on the **AFN Bullbar | Bumper**.

The grid must enter from above and gently rotate until it passes through.

Be careful so you don't break the fasteners of the grill.



Step 12 (Continuation)

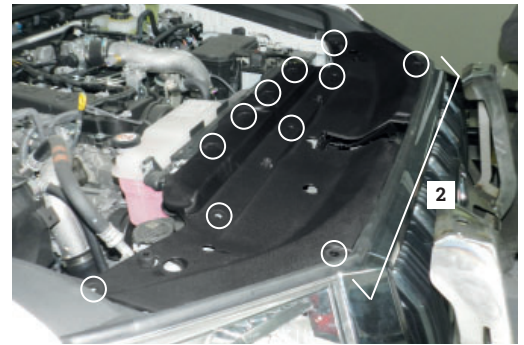
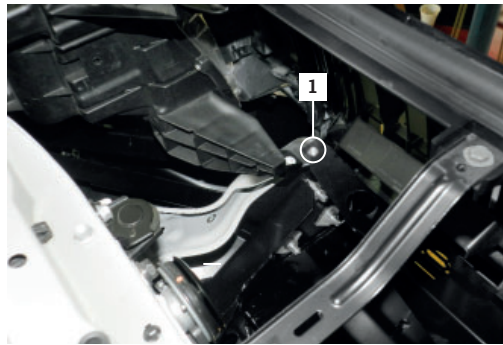
Once the grill is in place, reuse the OEM* bolts on the spots highlighted as showed on the image on the right.

Bolts needed:

1 - 45000462; 45000044; **M6x20**

2 - OEM* plastic bolts;

Give the final torque.



Step 13

Fit upper underbody armour part number **46007630**.

Bolts needed:

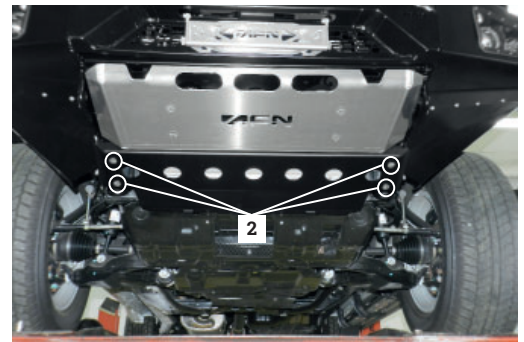
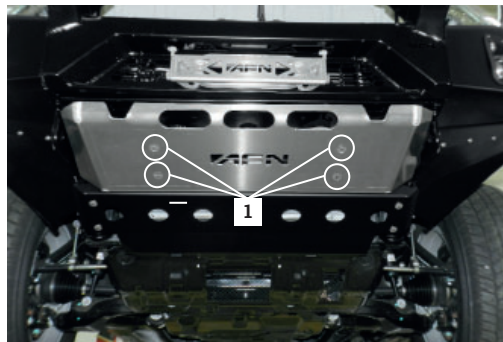
1- 45000934; **M10x30**

Fit lower underbody armour part number **46007631**.

Bolts needed:

2- 45000934; **M10x30**

Give the final torque.



Step 14

Your new **AFN BULLBAR | FRONT BUMPER** is now installed on your **Toyota PRADO 150!**

Have Fun!



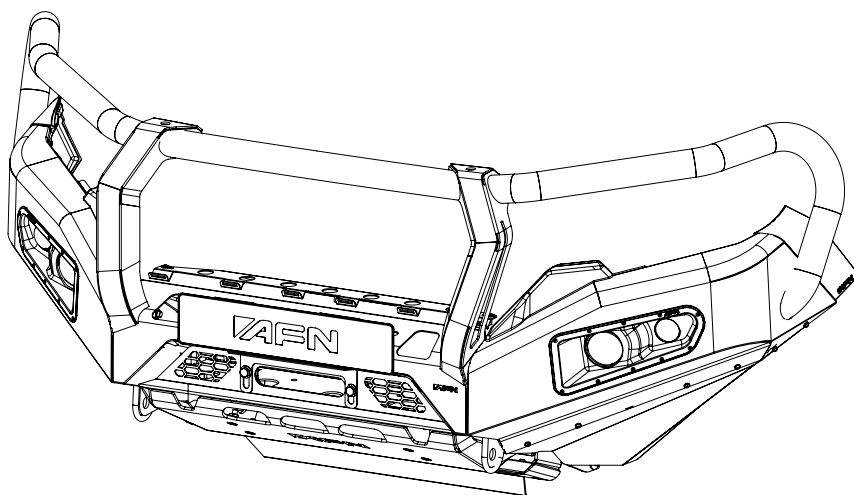
Reminder !

Before operating a vehicle fitted with an AFN Bullbar | Front Bumper:

- Make sure all fittings are tightened
- Check winch operation (if installed)
- Check all electrical wiring attached to lights and parking sensors (if installed)

Maintenance | Care

Periodically check and tighten all nuts. Stripped, fractured or bent bolts or nuts need to be replaced.



3 PRADO 150 CATALOGUE

AFN 4x4 Accessories is becoming a well known brand for its products due to its quality, design and safety which are challenged for thousands of people everyday, worldwide.

In its diversity of products we can include, with all-terrain quality, protection, safety and aesthetic accessories. With that being said, **AFN 4x4** has some other accessories that every offroad passionate would like to have, such as **Body Protections, Underbody Protections, Light Holders, Storage** (Wheel Supports and Jerry-can carriers) and others related to the **Aesthetics**.

We have some 4x4 accessories that combine with the original model lines that if you take a closer look you will see that they don't appear to be an accessory, but a must-have.

Please be in mind that some accessories are available only to some models.

Feel free to check all the products that may interest you in our website at: www.afn.pt



Ref.: 48002XXX - Front Bumper



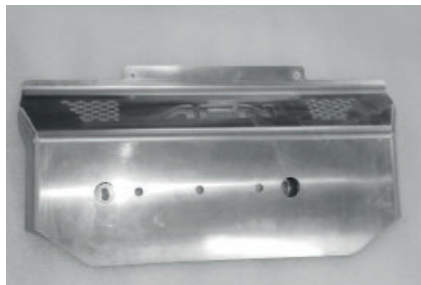
Ref.: 48002295 - Bull Bar with fog lights



Ref.: 48002478 - Side Steps



Ref.: 48002479 - Nerf Bars



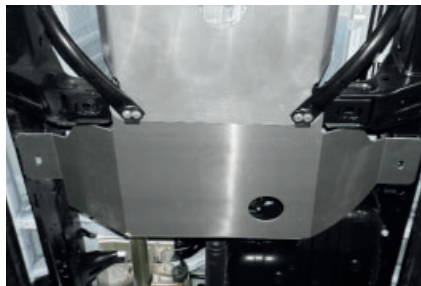
Ref.: 48001451 - Front Skid Plate (*Al)



Ref.: 48001462 - Sump Guard Skid Plate (*Al)

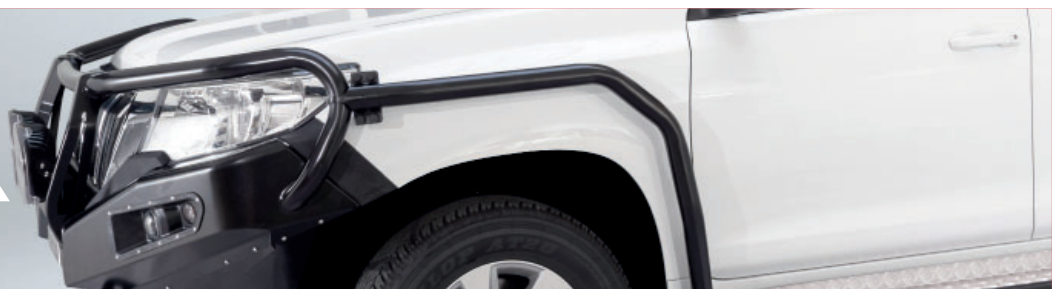


Ref.: 48001917 - Gearbox Skid Plate (*Al)



Ref.: 48001918 - Transferbox Skid Plate (*Al)

4 WARRANTY TERMS



AFN4x4 products are warranted free from defects in materials and workmanship for a period of two (2) years from the date of initial retail purchase. Third-party components are delivered under the original manufacturer warranty.

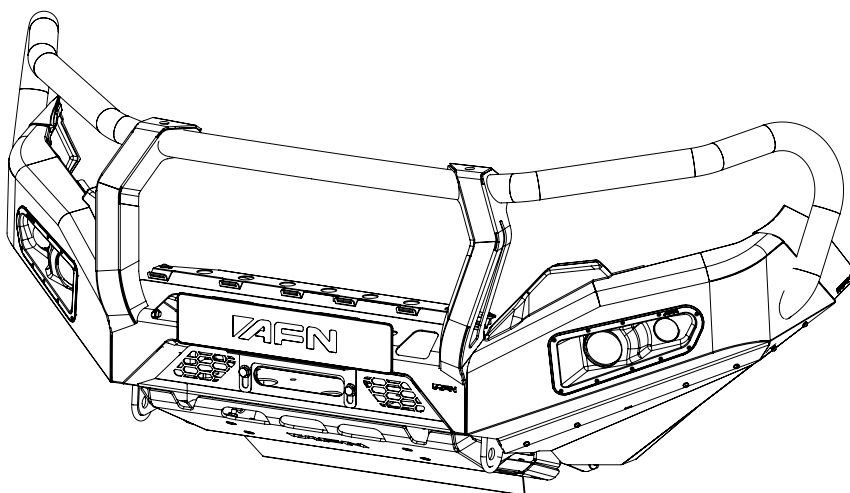
Under the present warranty, **AFN4x4** obligation shall be limited to repairing, replacing or crediting, at its option, any part found to be defective.

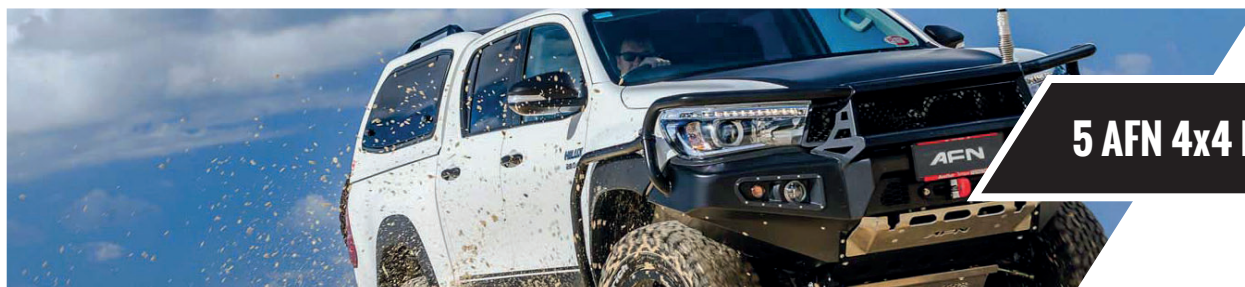
AFN4x4 does not warrant or make any representations concerning its goods when:

- a) The products are purchased used, scratch and dent or when the box was opened.
- b) The products are not installed, used, and maintained strictly in accordance with **AFN4x4**'s instructions.
- c) The products are installed in vehicles that are used in competition.
- d) The products are installed in vehicles fitted with aftermarket non-standard tires with diameters in excess of OEM* specifications.
- e) The products are installed in vehicles with engines that have been modified to increase performance.

AFN4x4 will not be responsible for goods damaged in transit. If any goods arrive damaged, please contact the **AFN4x4** as soon as possible. **AFN4x4** will assess and may arrange to have the damaged goods returned to a **AFN4x4** Distributor and arrange for a replacement of the goods. Damaged goods must be returned in the condition received by you with all original packaging, accessories and/or manuals. If they are not returned in same condition sent there may be an additional fee charged.

To file a claim under this warranty please contact **AFN4x4** at +351 256 808 300 or via email at geral@afn.pt to request a *Returned Goods Authorization (RGA)* number and instructions for returning the defective component.





5 AFN 4x4 PARTNERS



01

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03

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WELCOME TO THE AFN FAMILY

