



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.**

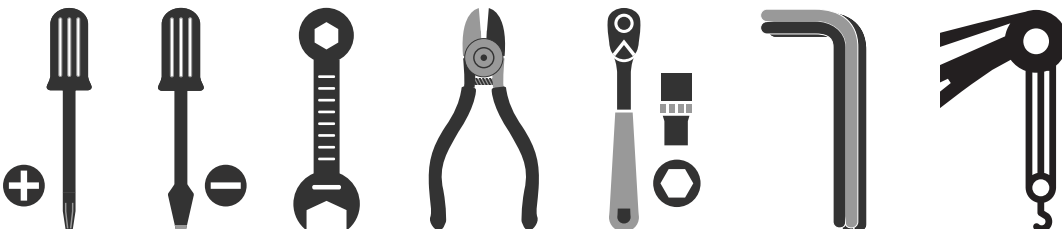


Size	Torque Nm	Torque lbft
M6	9 Nm	7 lbft
M8	22 Nm	16 lbft
M10	44 Nm	32 lbft
M12	77 Nm	57 lbft

Mouting Time

- 4 hours
- 2 persons (recommended)

Tools Required



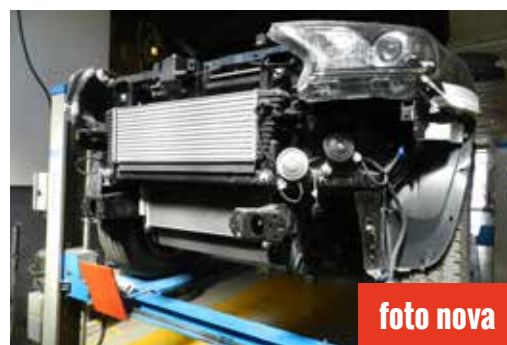
- Screwdriver star head
- Screwdriver flat head
- Wrench
- Wire cutter
- Ratchet wrench
- Allen wrench
- Needle plier
- Hacksaw
- Crane

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.)

In order to be perfect, some adjustments needs to be done in the grill so, remove it aswell.

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



Step 2

Once the OEM* bumper is removed, start to fit part **47001847**.

Bolts needed:

1 - 45000201; 45000036; 45000066; **Casquilho 74 mm 16 diam. M12**

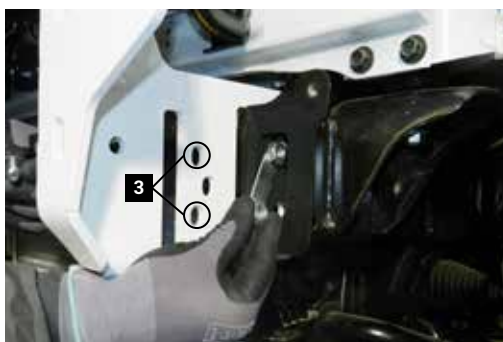
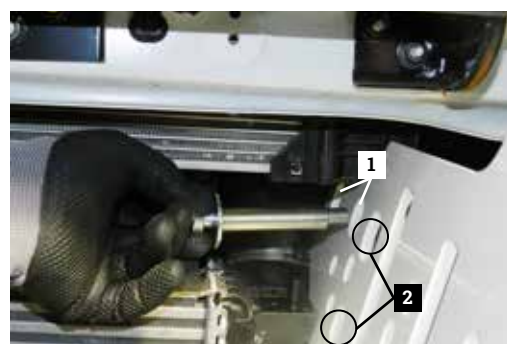
2 - 45000067; 45000036; 45000066; **M12**

Do the same on the other side for part **47001848**.

Chapa fêmeas soldadas (1 chapa p/ 2 parafusos) - Brito
3 - 45000037; 45000036; **Chapa fêmeas M12**

Fit part **46006976**.

4 - Use the OEM* bolts and nuts. Do the same on the other side for part **46006975**.



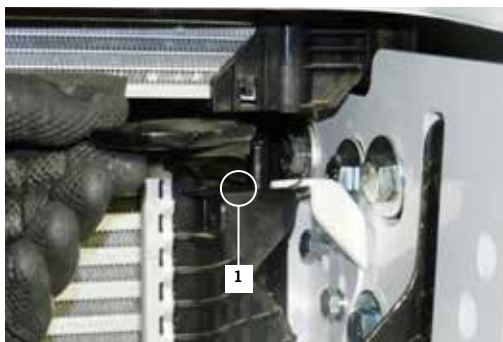
Step 3

Fit the OEM* **Top Intercooler Brackets**, on both sides.

Bolts needed:

1 - 45000058; 45000017; 45000011; **M8**

Check the image on the right to see how it must be look like.



instalação intercooler?

Step 4

Fit part **45000502** - Rubbers and attach them on the **AFN Bull Bar 48002320** | Bumper **48002319**.

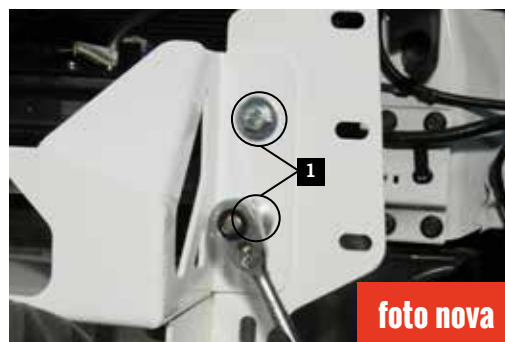
**Step 5**

Fit part **47001846**.

Bolts needed:

1 - 45000037; 46007001; **M12**

Just finger tight all bolts and nuts, because the bumper will settle the height of the winch.

**foto geral****Step 6 (only to EU version)**

Assemble front reinforcements for the bumper.

1 - 47001853

2 - 47001851

3 - 47001849

Do the same for parts

47001854, 47001852,

47001850 for the other side.

If you done it correctly, this is what it should look like. Bolts needed:

4 - 45000037; 45000036; **M12**

5 - 45000037; 45000010;

45000017; **M12**

6 - 45000007; 45000039;

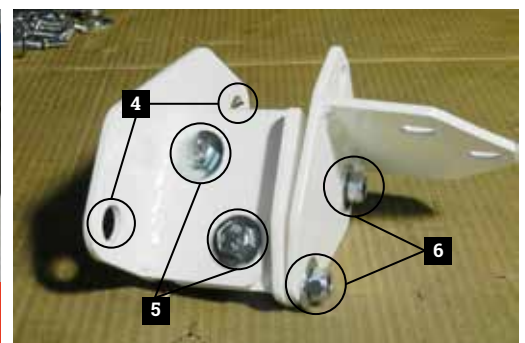
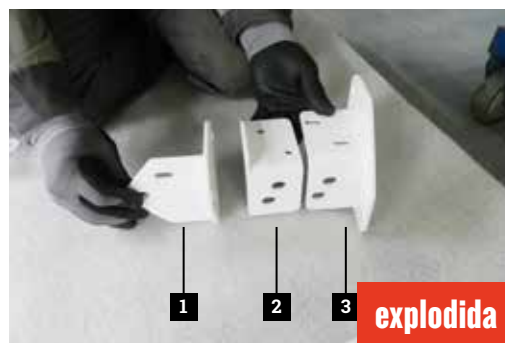
45000017; **M10**

Once assembled, fit it on part **47001848** and **47001847**.

Bolts needed:

7 - 45000069; 45000039;

45000017; **M10**



Step 7

With help of another person or a crane, lift the **AFN Bull Bar 47001884 | Bumper 48002292** and place it over the **Winch Bracket**.

Mind that this is a precision task, please take time to correctly assemble this step. Just finger tight all bolts and nuts - **Do Not tighten yet.**



Step 8

Once the winch is correctly set-up give the final torque on all bolts and nuts.

Tip: use a second wrench to prevent the nut to rotate.

Give the final torque on all bolts and nuts for part **47001846**.

See step 5

Fit part **46007191**. Bolts needed: **1** - 45000007; 45000010; 45000017; **M?**

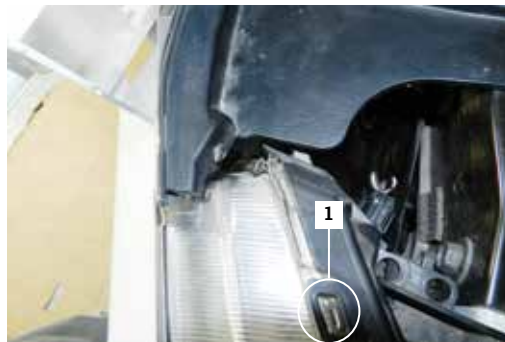


Step 9

Fit the OEM* plastic support for the OEM* headlight. Do the same on the other side.

Fit the OEM* plastic cover for the radiator.

Once installed, put the OEM* caps on the bolts.



Step 10

Fit part **46006973**. Bolts needed:

1 - 45000067; 45000036;
45000066; **M12**

Do the same on the other side.
Remind to finger tight all bolts
and nuts before give the final
torque.

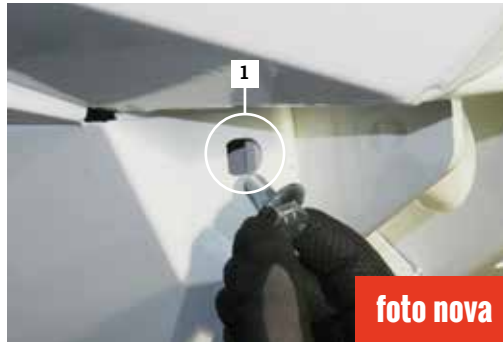


foto nova

colocar explosão
c/ zoom

Step 11

Step 12

Fit part **48002389** on the **AFN Bull Bar 48002380 | Bumper 48002394**. Bolts needed:
1 - 45000834; 45000949**, **M4**
 Repeat this step for part **48002390**.

Fit the plastic cover of part **48002389** on the Bumper.
 Bolts needed:
2 - 45001114; 45001113; **M3,5**
 Do the same on the other side for part **48002390**.

Once the light supports were fitted, reattach the electrical wires for the fog lights and indicators.

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**.

Ref. parafusos = Ranger

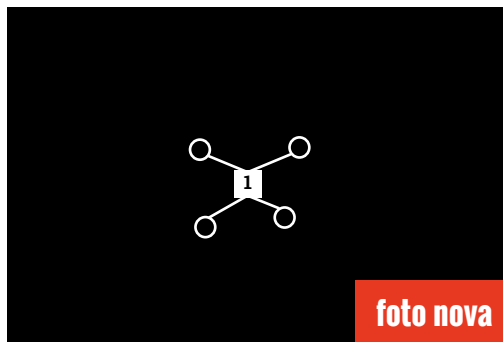


foto nova

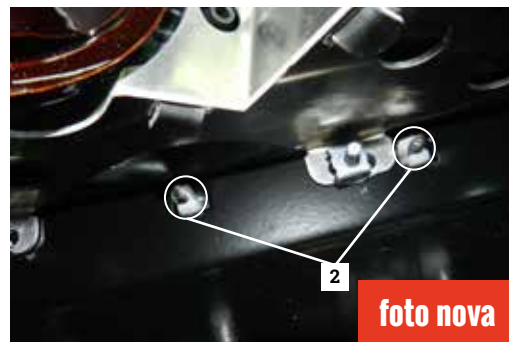


foto nova

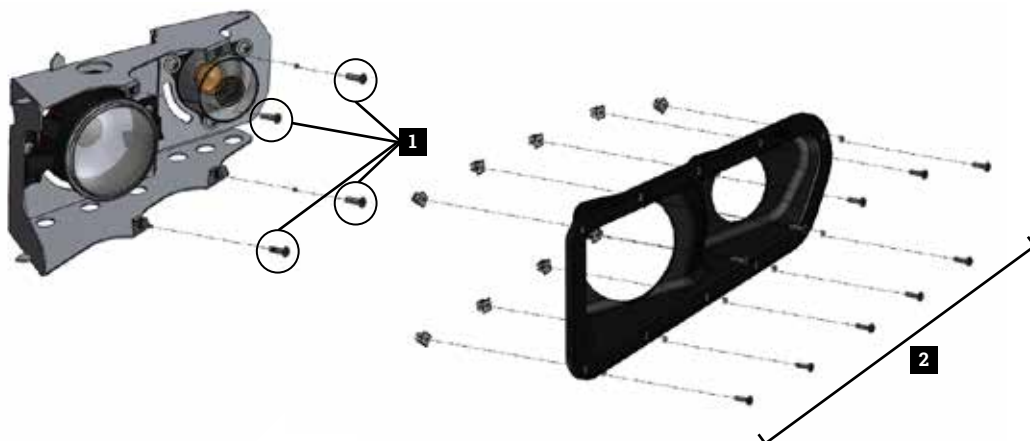


foto nova

Step 13

Adjust bumper until you have an equal gap between vehicle body and the bumper on both sides.

Note: The gap must be almost the same size as the rubber's thickness - **45000502**.

Check to make sure the bullbar is levelled. Adjust if necessary and fully tighten all hardware.

Give the final torque.



foto nova



foto nova

Step 14

Fit part **46007027**.
Finger tight all bolts and nuts before given the final torque.
Bolts needed:
1 - 45000998; 45000931; **M6**
2 - 45000998; 45000500; **M6**

Repeat this step on part **46007028**.

Do Not tighten yet.

Fit part **46006973**. Finger tight all bolts and nuts before given the final torque. Bolts needed:
3 - 45000998; 45000931; 46001012; **M6**

Repeat this step on part **46006974**.

Give the final torque.



foto nova

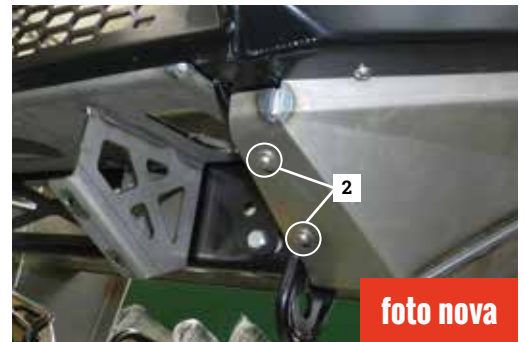
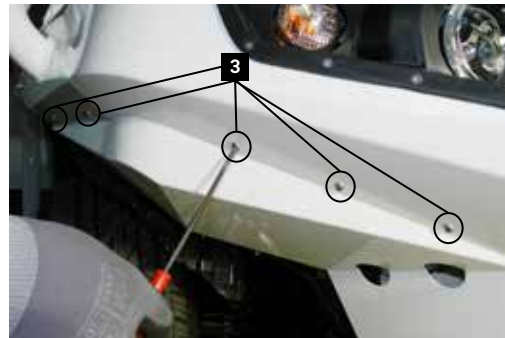


foto nova



Step 15

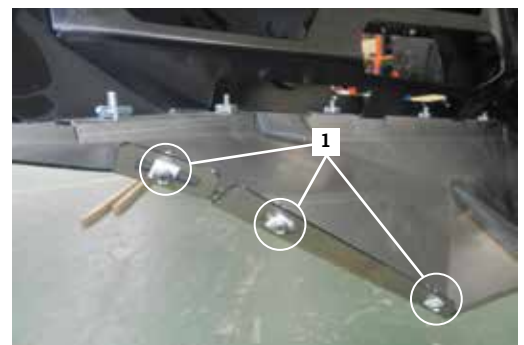
Push the flaps **46006973** to OEM* plastic fenders and mark the cut line, then cut OEM* plastic fender. Mark a hole on the inner side of wheel fender from both left and right side of vehicle. Drill a 2mm diameter hole. Fix the flaps through these holes using:

1 - 45001123; 45001113; **M3,5x16**
Repeat this step on part **46006974**.

Give the final torque.



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



*It's easier to install all the **45001113** before fitting the **46006973** and **46006974**.*

Step 16

Fit underbody armour part **46006985**.
Bolts needed:
1 - 45000956; **M10x25**

Give the final torque.



**foto nova
zoom out**