

# WELCOME TO THE AFN FAMILY

This manual contains the Mercedes G-CLASS +1979 fitting instructions for: Rear Bar w/ Wheel Carrier Ref.: 48002556



#### **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**

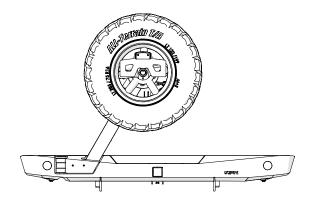
AFN designs each accessorie taking into consideration the original model lines and fixing points. We refuse to have a "one design fits all" solution and we are always looking foward to embrace new challenges on how to adjust a new product into a new model! The days of just throwing on a bit of steel 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.





AFN 4x4 Accessories Product: Rear Bumper w/ wheel carrier Part Ref.: 48002556

- Introduction 2
- 1 Checklist 4 Product 48002556
- 2 Fitting Instructions 7
- 3 G-CLASS Catalogue 19
  - 4 Warranty Terms 20
  - 5 AFN 4x4 Partners 21



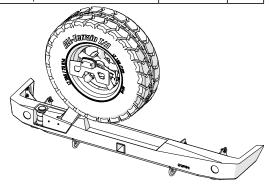


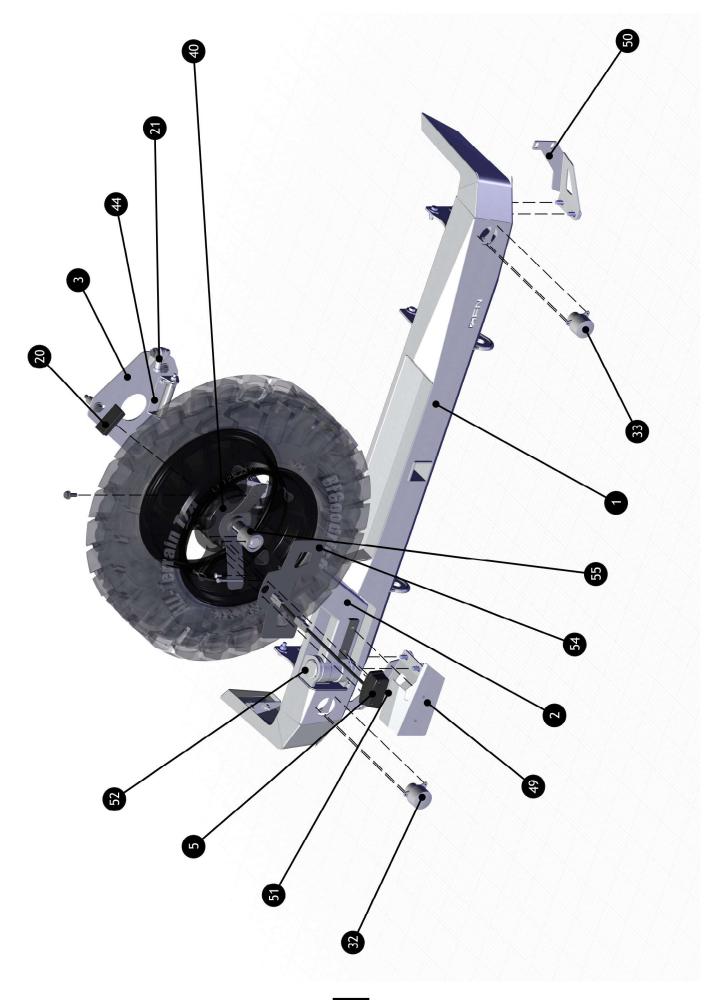


- In this section you have a checklist with all parts included for the installation of your AFN product
- This product should be installed as demonstrated in the product fitting instructions
- If verified that any component is damaged, please contact your nearest AFN distributor
- The specified parts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

This checklist is for product 48002556.

NUMBER	DESCRIPTION	REFERENCE	QTY	NUMBER	DESCRIPTION	REFERENCE	QTY
1	Rear Bumper Mercedes G	47002092	1x	30	Flange Nut M12	45001249	2x
2	Wheel Carrier Arm	47002093	1x	31	Bolt M6x16	45001258	1x
3	Closing Bracket Plate	47002094	1x	32	Round Fog LED Light	45001385	1x
4	Closing Swivel	47000801	1x	33	Round Reverse LED Light	45001386	1x
5	Plate Light	47001233	1x	34	Flange Bolt M12x45	45001401	2x
6	Bolt M10x30	45000007	8x	35	Flange Bolt M6x35	45001402	4x
7	Washer M10	45000010	20x	36	Flange Bolt M10x60x25	45001403	1x
8	Washer M8	45000011	8x	37	Plastic Arm Stop	46003672	2x
9	Bolt M8x25	45000014	4x	38	Pin Lock Hitch Pin for Plate Bracket	46004841	1x
10	Bolt M10x25	45000015	4x	39	Tire Bracket Shaft	46005351	1x
11	Nylock Nut M10	45000017	8x	40	Nylon Tire Limiter Cap	46005352	1x
12	Nylock Nut M8	45000018	4x	41	Nylon Tire Limiter	46005353	1x
13	Nut M12	45000034	Зx	42	Tire Bracket Nut	46005354	1x
14	Bolt M14x45	45000163	1x	43	Plastic Cap M14	46007960	1x
15	Bolt M12x40	45000267	2x	44	Closing Bracket	46007969	1x
16	Washer M10	45000307	Зx	45	Plastic Bushing	46007970	1x
17	Tapered Bearing Ø62xØ35x19	45000871	1x	46	Adjustment Shim	46007971	2x
18	Tapered Bearing Ø55xØ30x18	45000872	1x	47	Hitch Lock Pin for Closing Bracket	46007974	1x
19	Cage Nut M4	45000949	8x	48	Bushing	46007976	1x
20	Wheel Carrier Arm Nylon Cap	45001028	1x	49	Wheel Carrier Arm Cover	46008015	1x
21	Heim Joint M12	45001046	2x	50	Right Reinforcement	46008016	1x
22	Bolt M4x12	45001090	бх	51	Left Reinforcement	46008017	1x
23	Bearing Seal Ø55x40x7	45001132	1x	52	Threaded Shaft	46008018	1x
24	Bearing Seal Ø62x45x7	45001133	1x	53	Threaded Shaft Nut	46008019	1x
25	Bolt M4x12	45001232	2x	54	Plate Bracket	46008033	1x
26	Hex Flange Bolt M10x25	45001236	1x	55	Sleeve Bracket	46008035	1x
27	Hex Flange Bolt M10x45x30	45001239	2x	56	Upper Sleeve	46008036	1x
28	Flange Nut M6	45001246	4x	57	Lower Sleeve	46008037	2x
29	Flange Nut M8	45001247	Зx	58	Tie Rod Adapter Stud	46008038	1x









#### WARNING:

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

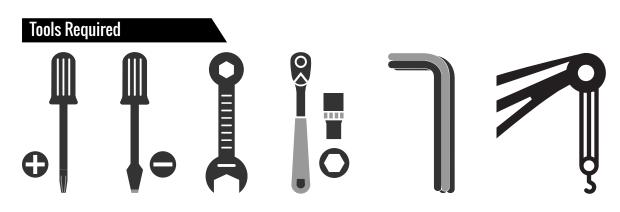
- This product should be installed as demonstrated in the Product «Fitting Instructions»;
- The specified parts, will only fit the models specified by AFN;
- Do not modify any component of the product;
- It is recommended that this product is installed by specialized and trained personnel;
- AFN doesn't take responsability 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)



- Screwdriver star head

- Screwdriver flat head
- Wrench
- Ratchet wrench
- Allen wrench
- Crane

# Step 1 - Remove the OEM\* Bumper

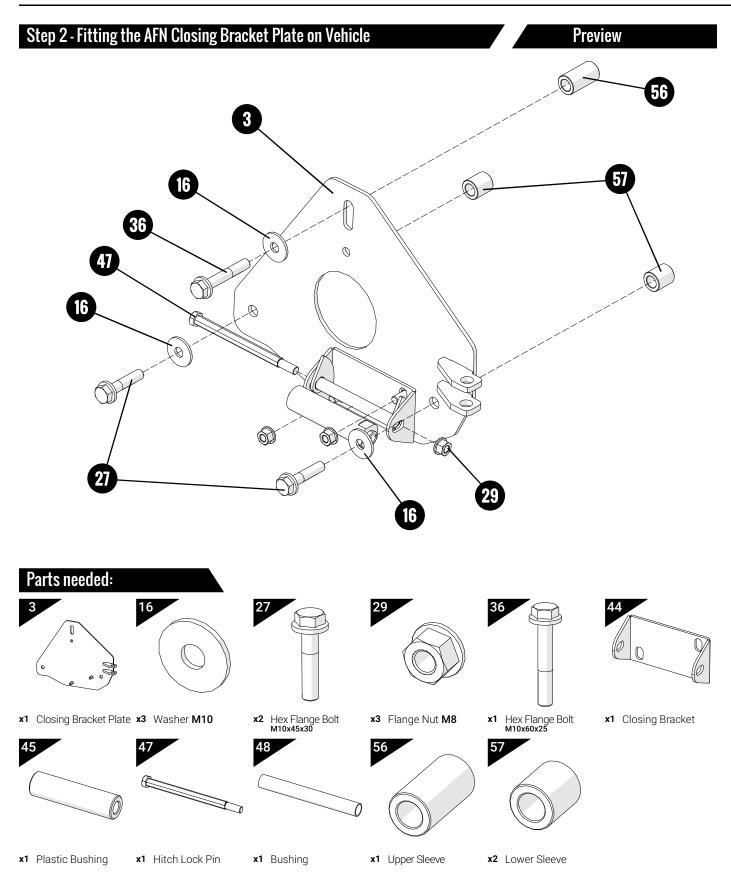
Remove the *OEM\** Rear Bumper just as specified by the vehicle manufacturer in your maintenance manual.

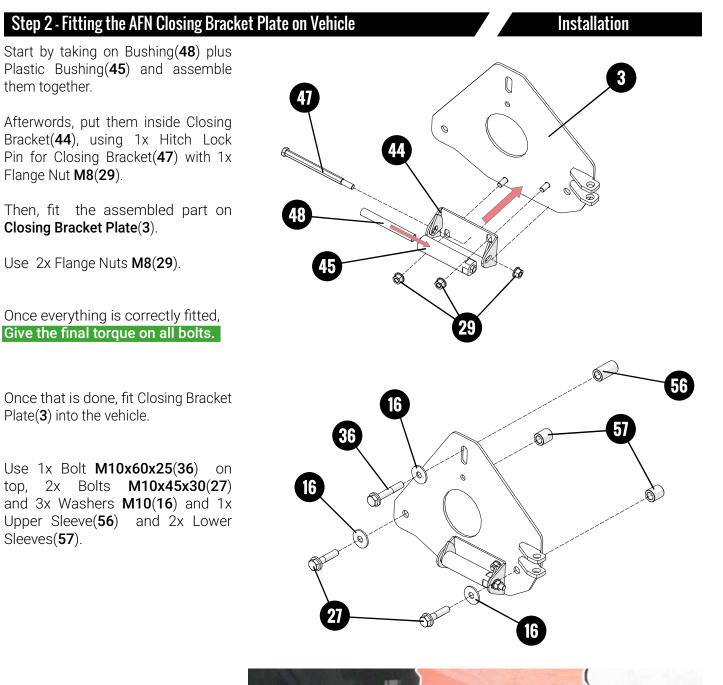
(Be aware that you must save the OEM bolts and nuts.)

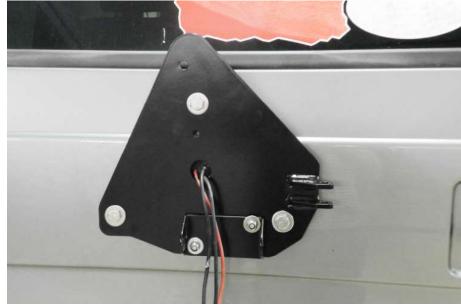
Also remove the *OEM\** Wheel Carrier, only just three bolts, marked in the highlighted area.

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





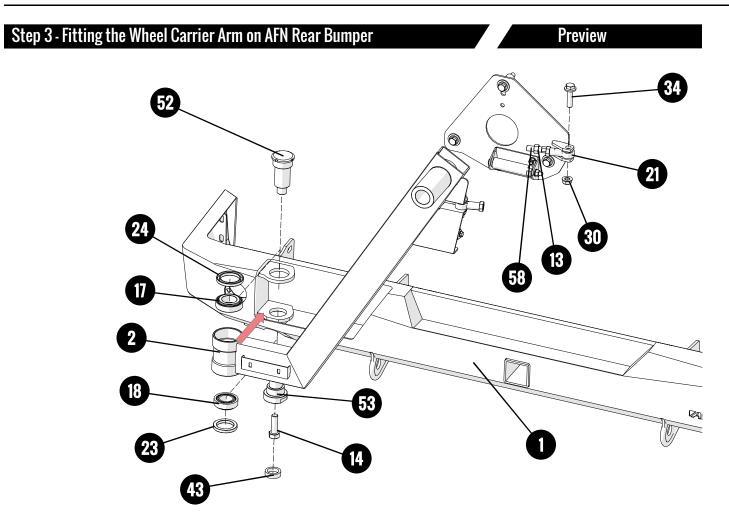




If you done it correctly this is what it should look like.

Give the final torque.

top,



# Parts needed:





x1 Rear Bumper Mercedes G



x1 Wheel Carrier Arm Mercedes G



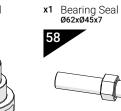
x2 Heim Joint M12





x1 Bearing Seal ø55xø40x17

53



13

x1 Nut M12

24



x1 Bolt M14x45

14

30

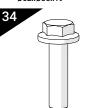
x2 Flange Nut M12

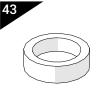


18

x1

x1 Tapered Bearing Ø62xØ35x19





Tapered Bearing ø55xø30x18

x2 Flange Bolt M12x45 x1 Plastic Cap M14

- x1 Threaded Shaft
- x1 Threaded Shaft Nut x1 Tie Rod Adapter Stud
  - 10

#### Step 3 - Fitting the Wheel Carrier Arm on AFN Rear Bumper

Installation

#### ATTENTION!

The following step **only applies if the Wheel Carrier is not mounted**, or if by any case there is a need to dismount it. **Proceed to next Step.** 

Before inserting the **AFN Rear Bumper(1)** on the vehicle there are some details that we advise to do first (so, place it on a flat working surface).

Take on the **Wheel Carrier Arm(2)** and fit both Bearing Seals(**23**) and (**24**) with both Tapered Bearings (**17**) and (**18**). Check the image to correctly assemble this.

Then, fit the Wheel Carrier Arm(2) in the AFN Rear Bumper(1).

Use 1x Threaded Shaft(52) on top.

On bottom, use 1x Threaded Shaft Nut(**53**) with 1x Bolt **M14x45**(**52**).

#### Give the final torque.

Finally, use 1x Plastic Cap M14(43).

Now it's time to connect the **Wheel Carrier Arm(2)** to the **Closing Bracket Plate(3)**.

Use 1x Heim Joint **M12(21)** with 1x Flange Bolt **M12x45(21)** and 1x Flange Nut **M12(30)**.

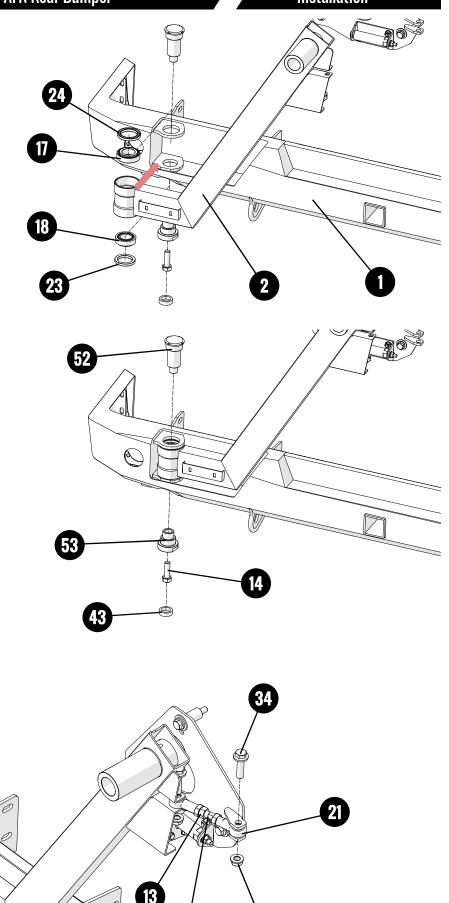
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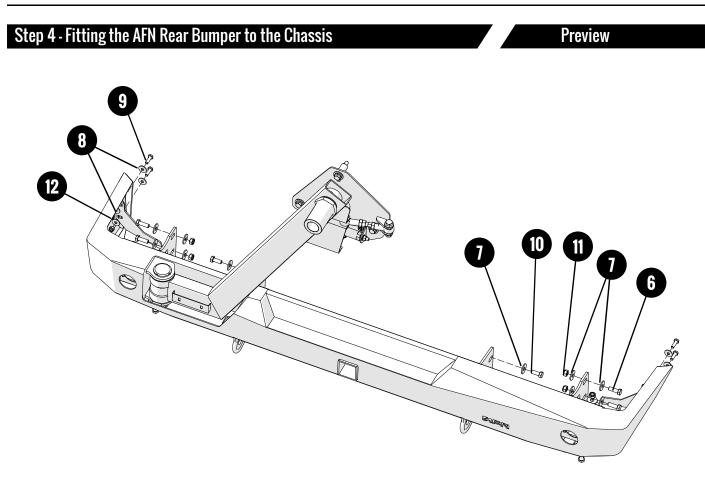
Repeat this steps for the other Heim Joint **M12(21)** and fit it into the **Wheel Carrier Arm(2)**.

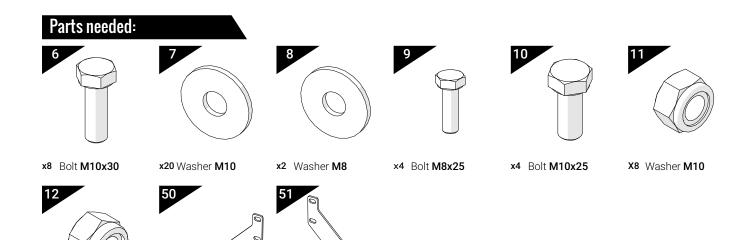
Once that is done, take on **Tie Rod Adapter Stud(58)** with 1x Nut **M12(13)**. It will connect both Heim Joints **M12(21)**.

Please be in mind that **Tie Rod Adapter Stud(58) MUST BE** well adjusted before proceeding to the next step.

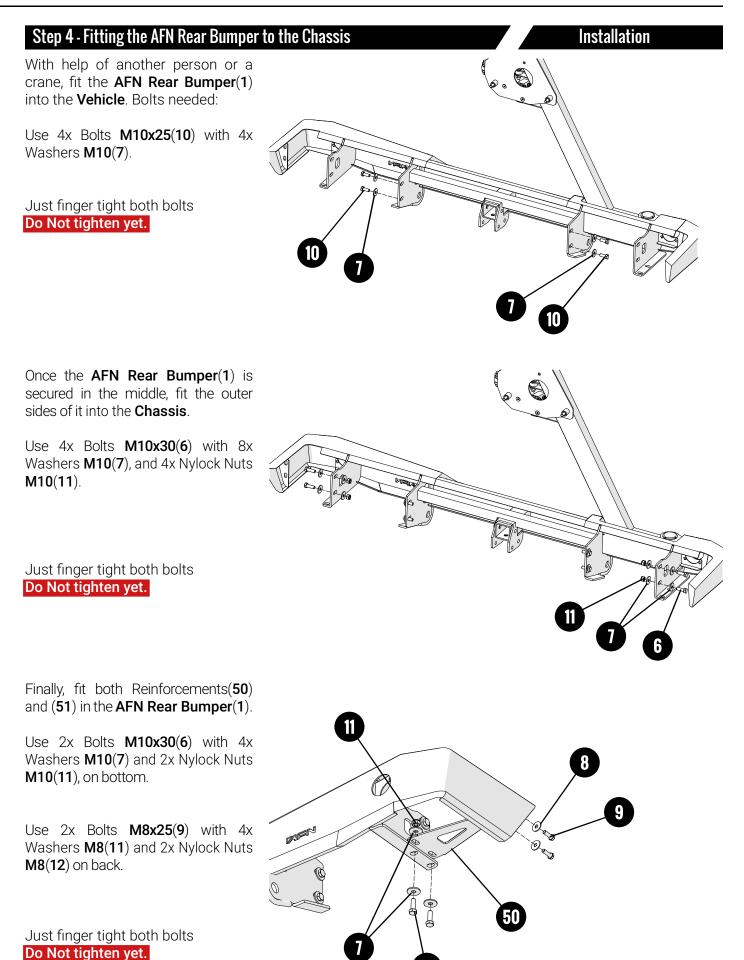


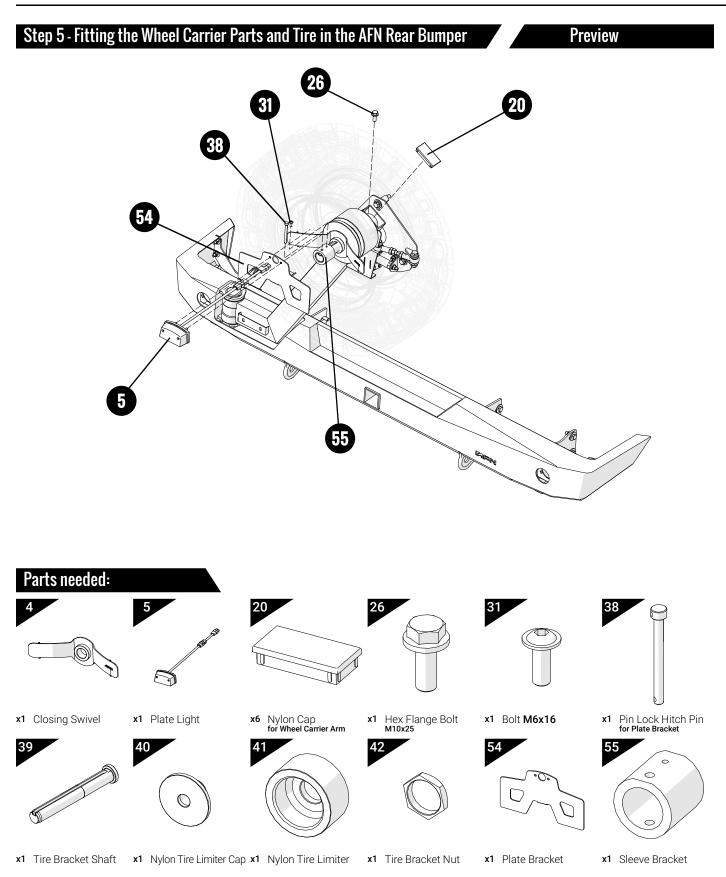
30





x1 Right Reinforcement x1 Left Reinforcement







Take on Tire Bracket Shaft(**39**) and fit it the Wheel Carrier Arm(**2**). It must enter from behind of the arm.

Use 1x Hex Flange Bolt **M10x25(41)** to secure the Tire Bracket Shaft(**39**).

Then take on Tire Bracket Nut(**42**) and tight it on Wheel Carrier Arm(**2**).

Finally, fit the Nylon Tire Limiter(**41**).

Once that is done, it's time to fit the Spare Tire on the Tire Bracket Shaft(**39**).

Then, use Nylon Tire Limiter Cap(**40**) with the Closing Swivel(**4**) to fully tight thee Spare Tire.

#### Give the final torque.

Finally, take on Plate Bracket(**54**) with Sleeve Bracket(**55**) and fit them on the Tire Bracket Shaft(**39**).

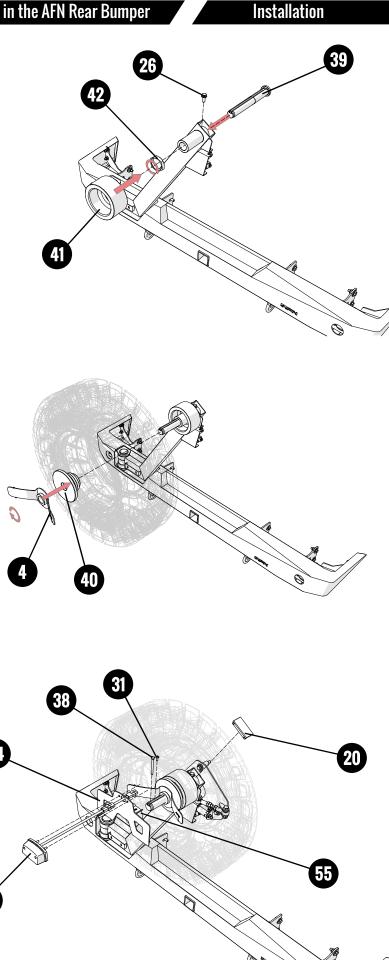
Use 1x Bolt M6x16(31).

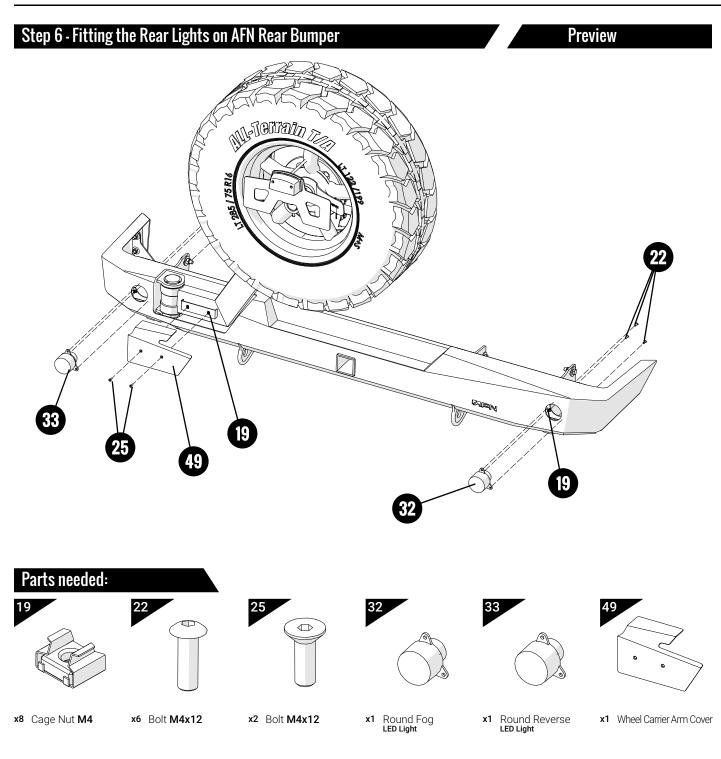
Then, use 1x Pin Lock Hitch Pin(**38**) to secure the assembled part in the Tire Bracket Shaft(**39**).

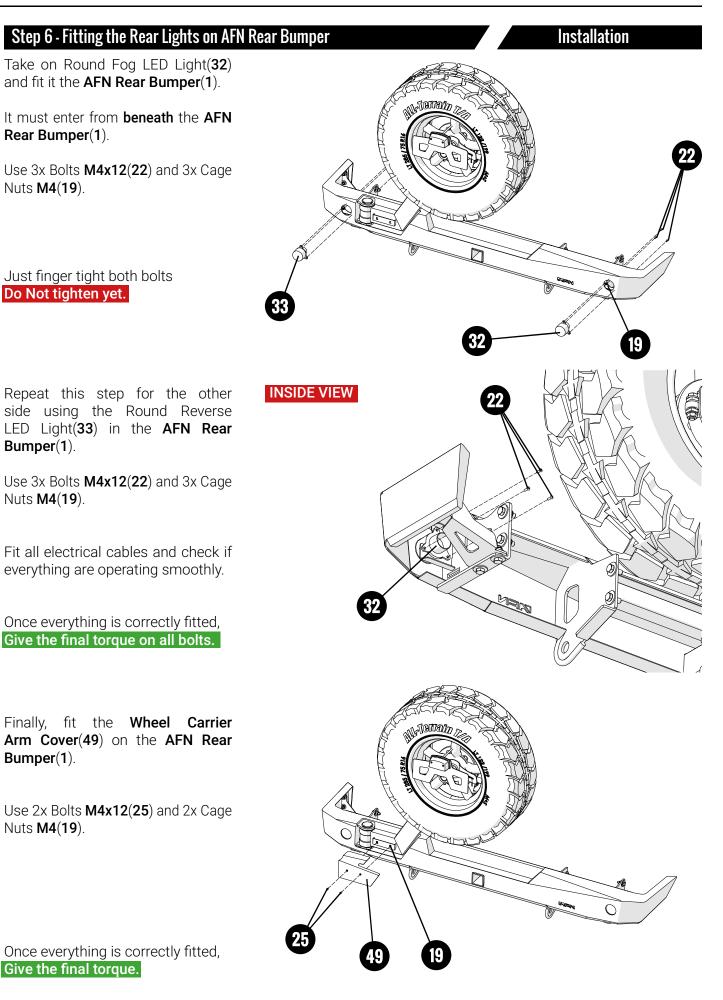
When the time comes to change your tire, the only thing to do is to unlock the Pin Lock Hitch Pin(38) and the assembled plate bracket will be free to be pulled out. (beware of the cables)

Finally, fit the Plate Light(**5**) on Plate Bracket(**54**).

Once everything is correctly fitted, Give the final torque on all bolts.







# **Owner Manual | Fitting Instructions** 48002556



Your new AFN REAR BUMPER is now installed on your Mercedes G-CLASS! Have Fun!

#### **Reminder** !

Before operating a vehicle fitted with an AFN Rear Bumper:

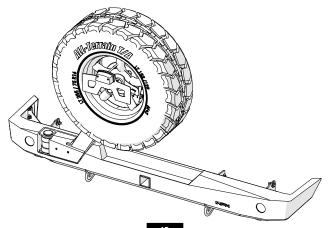
- Make sure all fittings are tightened

- 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.





**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 are **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 accessorie, 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.: 48002402 - Bullbar with fog lights



Ref.: 48002556 - Rear Bumper w/ Wheel Carrier



**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.

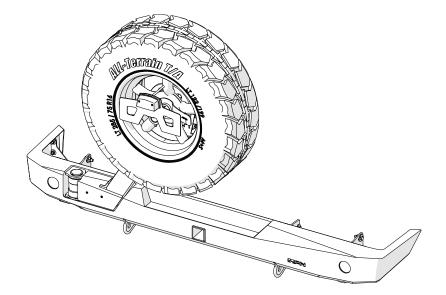
c) The products are installed in vehicles that are used in competition.

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.









Rua da Madeira, 113 Z. Industrial das Travessas 3700-176 S. João da Madeira



#### Espanha

Carretera de Moledo 8 pol. ind. de Miraflores, Nave 20 36214, Vigo (Pontevedra)



#### Austrália

19 Flinders Parad North lakes QLD 4509

# 04

**Costa Rica** Fort overlanding CR Alajuela I:(00351) 256 838 300/7 geral@afn.com www.afn.com

T:(0034) 986 378338 info@4x4misutonida.com www.4x4misutonida.com

T:(0061) 1300 236 494 sales@afn4x4.com.au www.afn4x4.com.au

T:(0011) 506 8430 0211 info@fortoverlanding.com www.fortoverlanding.com



# WELCOME TO THE AFN FAMILY



DON'T JUST SETTLE FOR THE SAME **OLD BULL** 



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