



**213291  
Platinum  
Manoeuvring  
Aid**



# Berger 213291 Platinum Manoeuvring Aid User Manual

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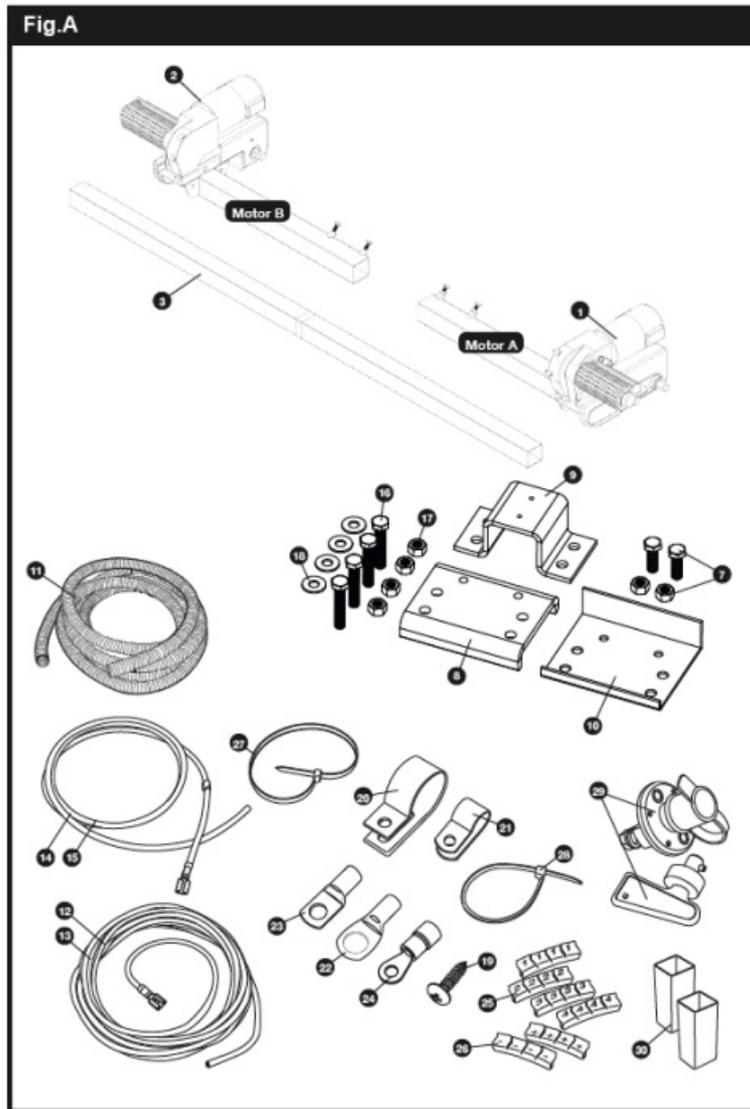


**Berger 213291 Platinum Manoeuvring Aid**



# PACKAGE CONTENTS

(FIG. A):



REF	Quantity	Description
1	1	Motor unit (A)
2	1	Engine unit (B)
3	1	Main crossbar

7	4	Classic Clamp – Stop Nut and Bolt*
8	2	Classic clamp – upper plate*
9	2	Classic clamp – U-plate*
10	2	Classic clamp – lower plate*
11	1	Cable ducts
12	2	Positive (+) Red motor cable
13	2	Negative (-) Black motor cable
14	1	Positive (+) Red battery cable
15	1	Negative (-) Black battery cable
16	8	Classic clamp – M10x55mm screw
17	8	Classic clamp – M10 Nyloc nut
18	8	Classic clamp – Ø10mm washer
19	20	M4x15mm P-Clip Screw
20	10	Cable P-Clips 19,2mm
21	10	Cable P-Clips 10,4mm
22	4	Battery terminal connector Ø8mm
23	4	Clamp ring connector Ø6mm
24	4	Clamp ring connector Ø4mm
25	3	Cable number markers (1,2,3,4)
26	3	Cable polarity markers (+,-)
27	4	Motor unit Cable tie 8x400
28	10	Cable tie 2x70
29	1	Battery disconnect switch (incl. key and fixings)
30	2	20mm roller spacers

## TECHNICAL REFERENCE DIAGRAMS

Fig.1



Fig.2

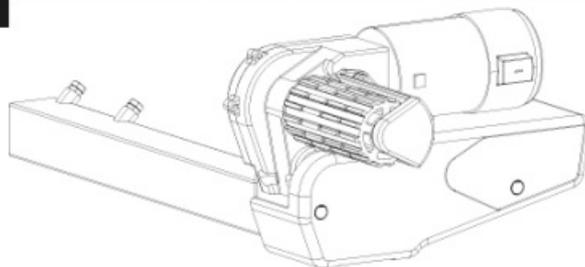


Fig.6

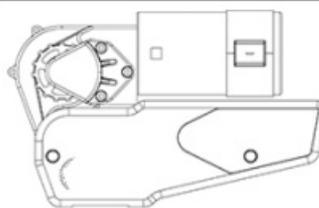
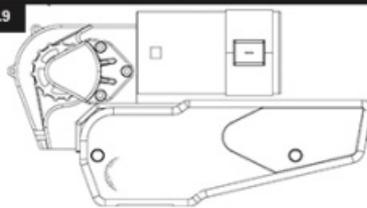
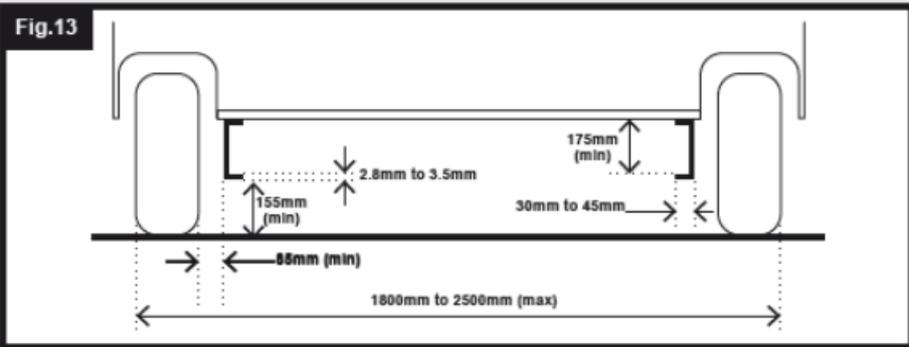
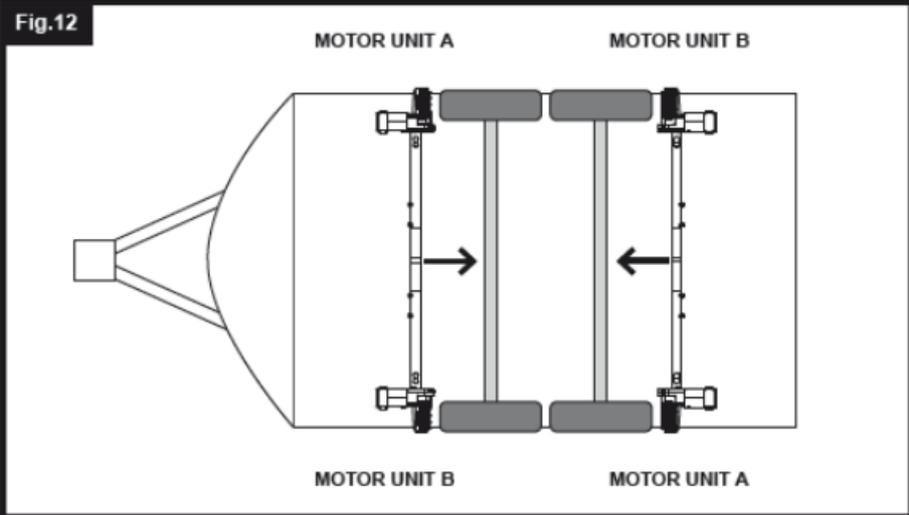
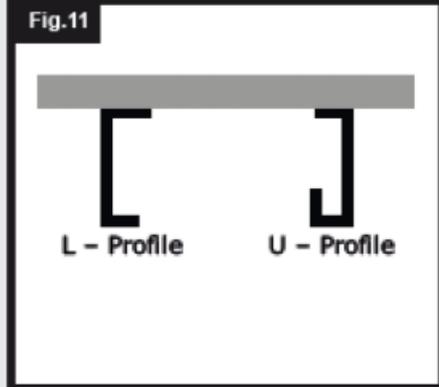
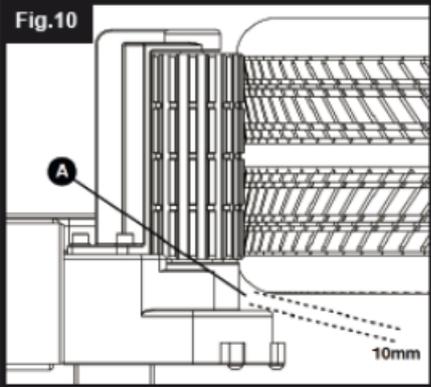
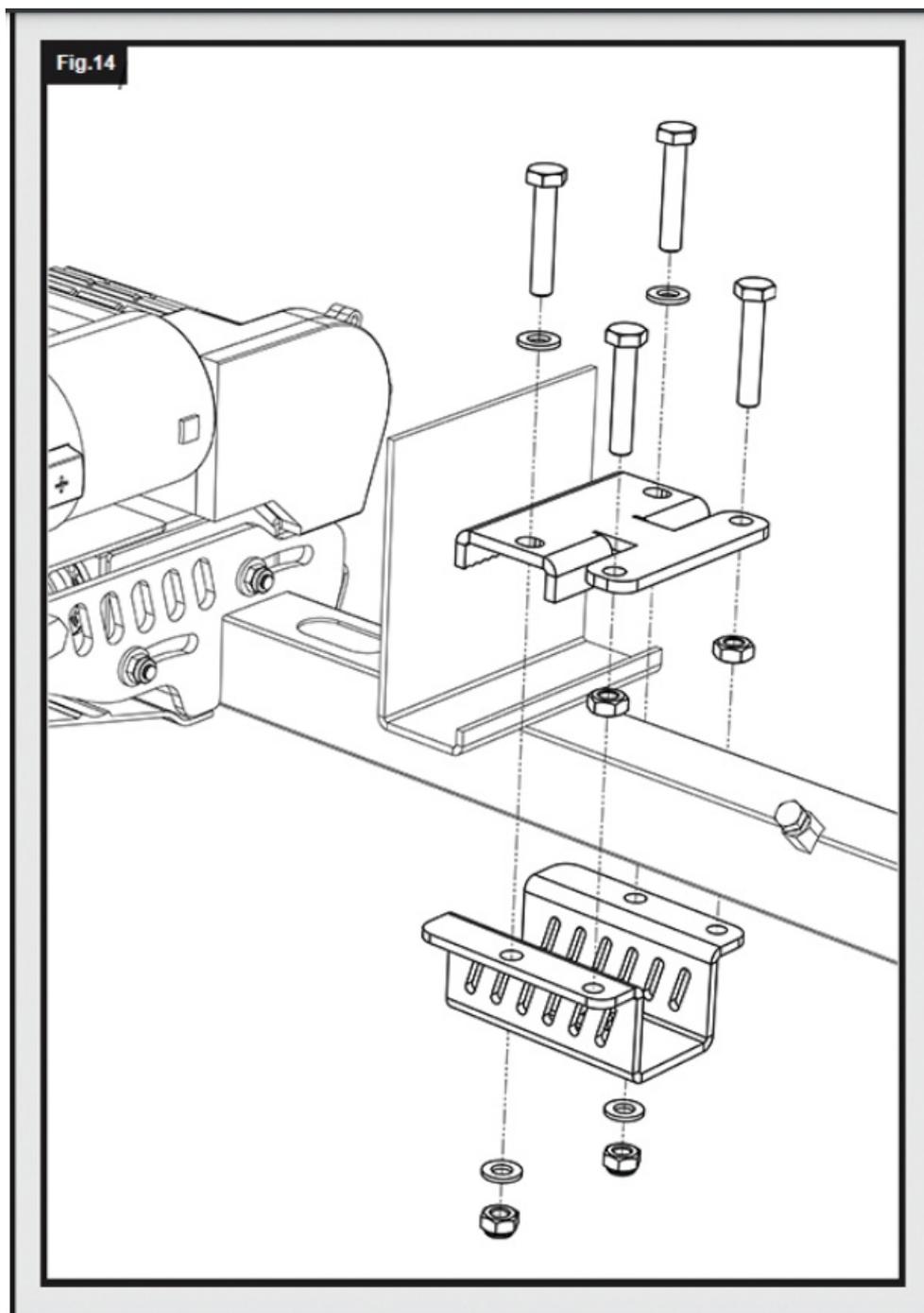


Fig.9







## INTRODUCTION

Thank you for choosing the Berger Platinum manoeuvring aid. This product has been manufactured to high standards and has undergone careful quality control. With the help of the remote control, you can effortlessly move your caravan to any desired position within the operating guidelines.

Before you start assembling and operating the manoeuvring aid, please read these instructions very carefully and observe all safety instructions! The owner of the caravan is always responsible for correct use. Keep these instructions in your caravan for future reference.

These installation instructions apply to the manoeuvring aid Platinum. The manoeuvring aid system consists of two 12 V motor rollers, a 12 V electronic control box and a remote control.

To function, the motor rollers must be pressed against the tyres of your caravan. The crossdrive system allows you to engage the rollers of both drive units simultaneously. After that, the manoeuvring aid is ready for use. You can use the remote control to move your caravan in any direction.

## GUIDELINES FOR INSTALLATION

The chassis clamps supplied with this system are suitable for installation on most standard caravan chassis with L or U profiles (Fig. 11). Please refer to Fig. 13 for dimensions and clearances BEFORE proceeding with installation.

## SPECIFICATION

Model number	Platinum
Operating voltage	12 Volt direct current
Average current consumption*	25 amps (approx.)
Maximum current consumption**	120 amps (approx.)
Speed	12cm per sec. (approx.)
Approximate net weight (incl. all fixings and accessories)	31 kg
Safe working load (SWL) Twin motor/square motor	2250Kg/3500Kg
Minimum width (caravan/trailer)	1800 mm
Maximum width (caravan/trailer)	2500mm
Power source (caravan battery)	12V

\* Average power consumption when using a single-axle caravan of approx. 1100 kg on a hard, level surface. \*\* Maximum power consumption when using an approx. 1100 kg single-axle caravan on a slope of 1:4 (25%).

## INSTALLATION – SAFETY GUIDELINES

Read this user manual carefully before installation and use. Failure to do so may result in serious injury or property damage.

Before you start installing the caravan manoeuvring aid:

Make sure that the caravan is disconnected from the battery supply and the mains.

Only use adapters and accessories supplied or recommended by the manufacturer.

Make sure that the tyres are not too worn (it is best to fit new or almost new tyres).

Make sure that the tyre pressure is in accordance with the manufacturer's recommendations. Make sure that the chassis is in good condition with no damage and free of rust, dirt, etc. Stop work immediately if you have any doubts about the assembly or any procedure and contact one of our technicians.

Fit the battery disconnect switch so that it is accessible at all times when parking and moving the caravan.

DO NOT remove, modify or alter any part of the chassis, axle, suspension or brake mechanism. DO NOT operate the unit if you are under the influence of drugs, alcohol or medication that may impair your ability to operate the unit safely.

These instructions are provided as general guidance. Installation procedures may vary depending on the type of caravan.

Use a suitable support! Working under a vehicle without proper support is extremely dangerous.

If you are installing the manoeuvring aid system yourself, it is advisable that two people carry out the installation, as the manoeuvring aid must be raised to the underside of the caravan chassis before the clamps can be fitted.

## INSTALLATION – MECHANICAL COMPONENTS

To begin the mechanical installation, place your caravan on a hard, level surface. If possible, the use of a lifting platform or assembly pit is ideal for access and personal safety.

Make sure your caravan is prepared for installation. Clean the appropriate mounting areas of your chassis to ensure safe installation of the manoeuvring aid system. Before installation, make sure that important areas, such as drains, spare tyres, etc., do not obstruct the installation of the manoeuvring aid and its intended function.

Unpack all components and check that all parts are present (see package contents Fig. A). Before and during the

entire installation, make sure that the manoeuvring aid remains in the OFF position (Fig. 8), otherwise the unit cannot be mounted correctly.

## **INSTALLATION – CLASSIC CLAMPING SYSTEM**

Loosely assemble the motor frame side (1), the motor frame side (2) and the main crossbar (3) (see fig.1). The nuts (Fig.1.B) for fastening the crossbar must only be hand-tightened at this stage. Install the crossbar by sliding the actuating rods (5) into the centre actuating rod (4) and fastening them to the rods of the motor assembly (fig.1.A). Secure the actuating rods to these rods with the supplied bolts and nuts (already attached to the actuating rods). The nuts (Fig.1.C) for fastening must only be hand-tightened at this stage.

Place the assembly (Fig.1) loosely under the caravan. In principle, the unit should be mounted in front of the wheels of the caravan. If it is not possible to mount it in this position, it can also be mounted behind the wheels by turning the entire assembly 180° (Note: In this case, observe the wiring diagram of the rear axle when wiring your system). Make sure that the main cross member (3) is positioned in the centre of the caravan/parking aid assembly (the centre is marked). Adjust the lateral position of each side of the motor so that the rollers are in the centre of the tyre or as close to the centre as possible and ensure that there is a 10 mm gap between the tyre and the manoeuvring aid gear (Fig.10).

On one side of the vehicle, lift the frame assembly and loosely attach the clamp assembly to the frame and chassis as shown in Fig.14. The supplied clamp fixings (7, 16, 17, 18) must only be hand tightened at this stage. Once the loose fixings are self-supporting, repeat the process on the other side of the vehicle.

Use due caution when lifting and fixing the frame and brackets. Use lifting aids and/or a second person when lifting/assembling.

If the main assembly is loosely mounted on the chassis, slide the entire assembly along the chassis until the rollers are 20 mm from the surface of each tyre (Fig.8). Two 20 mm spacers (30) are provided to adjust this distance. Note that the drive units should be in the disengaged position when the 20 mm distance is set. When adjusting the spacing, ensure that the rollers of both drive units are centred on the vehicle tyres both horizontally and vertically to ensure the best possible wheel contact (see Fig. 10 for reference). If the roller widths exceed those of the tyre, ensure that the end of the roller forms a common alignment with the outer wall of the tyre. An overhang on the inner wall of the tyre is acceptable for thinner tyres and should not drastically affect function or grip.

It is important that each roller has exactly the same distance to the tyre. The entire assembly must be parallel to the axle of the caravan/trailer for the system to function as intended.

When you are satisfied with the distance between the castors, tighten the four Nyloc nuts (17) on both clamp assemblies (Fig. 14) to a torque of 55Nm, then tighten the bolts (Fig. 1.B and Fig. 1.C) on each engine side frame to a torque of 12Nm. Check again the distance of 20mm between the rollers and the tyres and if necessary loosen the screws and readjust the position of the assembly. When you are satisfied with the position of the assembly, fit the chassis stop nuts and bolts (7) in each of the upper classic clamp plates (8) and tighten them (see Fig.14).

Tighten them to a torque of 55Nm. The stop bolts grip the lip of the chassis and prevent the manoeuvring aid from slipping on the chassis. The most important mechanical components are now installed.

## **INSTALLATION – MECHANICAL COMPONENTS (AWD CONFIGURATION)**

For the installation of an all-wheel drive in your caravan, please follow the instructions described in the previous sections „Installation – Mechanical Components“. AWD installation follows exactly the same procedure, the only difference being the orientation of the manoeuvring aid. In an AWD configuration, the manoeuvring aids driving the rear axle of the vehicle must face the front of the trailer (see Fig. 12).

Follow the AWD configuration section of the electrical/electronic installation manual closely to ensure that these motor assemblies work as intended and not against each other.

## **ENGAGING/DISENGAGING THE MANOEUVRING AID**

Automatic engagement – During transport/installation, the end block of the engagement motor may rotate, causing it to tighten. Before first use, insert the manual engagement tool into the back of the engagement block (remove the rubber cap) and rotate the tool clockwise to ensure it moves freely; only a small amount of resistance should be required to rotate the tool.

Switch on the handset and then from the home screen, press and hold the multi-function but-ton for 3 seconds to engage or disengage the mover.

Once the engagement is complete, the handset will return to the home screen and the thumb control will be activated so that the caravan can be moved .In the event of a problem, a manual engagement of the T-bar is supplied, which can be used to engage and disengage. To do this, remove the small rubber plug on the back of the engagement motor and turn the engagement screw manually, position the engagement tool parallel to the ground and then turn it approximately 180 degrees.

**Note:** To engage the rollers, always turn the tool in the direction of the tyre, regardless of which side you are engaging from.The engagement mechanism works with a simple cam that presses the rollers onto the tyre and then engages automatically. If the mover has been installed correctly and is exactly 20 mm away from the tyres when disengaged, the force exerted by the rollers on the tyre is sufficient for most applications.To release the rollers, simply place the tool back on one of the spindles and turn it away from the tyre. Please note that you will initially feel a small amount of resistance as you release the cam from its locked position; the spring will then do the rest of the work and pull the roller away from the tyre and into the fully released position.

## INSTALLATION – ELECTRICAL/ELECTRONIC COMPONENTS

Please read the manual supplied with the electronics for wiring, operation and troubleshooting.

## MAINTENANCE

Regularly check that the rollers of the drive units are free of dirt or debris that has accumulated during use or downtime.

Please regularly check the distance between the rollers and the tyres. In the neutral, fully disengaged position (Fig.8), this must be 20 mm.

Have your caravan manoeuvring aid serviced and visually inspected once a year. This inspection must include all screw connections, cables and electrical connections as well as lubrication of the moving parts/joints.

There is a risk that elements of the manoeuvring aid will fail if it is not used for a longer period of time. Proceed accordingly by applying lubricant and removing oxidation if necessary.

DO NOT use any form of pressurised water or chemical cleaning agents on your caravan manoeuvring aid.

When servicing your manoeuvring aid, be sure to disconnect the power supply as failure to do so may cause an electric shock.

In the event of failures or problems, please contact your dealer.

## WARRANTY

Every Berger product is thoroughly inspected and tested before it leaves the factory. The warranty is 2 years and begins with the purchase of the appliance. Please provide proof of this date with proof of purchase (sales slip, invoice, delivery note, etc.). Please keep these documents in a safe place. In case of repair, take the unit to your dealer or send it to him.



With the CE mark, Fritz Berger GmbH declares that this product complies with the basic requirements and other relevant regulations of the directive 2014/53/EU. If required, the declaration of conformity can be requested at [info@fritz-berger.de](mailto:info@fritz-berger.de).



Intended for use in dry areas only.



The maximum operating voltage for protective extra-low voltage is 50V AC and 120V DC. The protective measure safety extra-low voltage provides protection against direct contact and indirect contact. Protective extra-low voltage systems are operated without a protective earth conductor and must not have any connection to the earthed supply network of the protective extra-low voltage generator. Active parts must neither be earthed nor

connected to parts of higher voltage.

**Kraftfahrt-Bundesamt**

DE-24932 Flensburg

## **Allgemeine Betriebserlaubnis (ABE) National Type Approval**

ausgestellt von:

**Kraftfahrt-Bundesamt (KBA)**

nach § 22 in Verbindung mit § 20 Straßenverkehrs-Zulassungs-Ordnung (StVZO)  
für einen Typ des folgenden Genehmigungsobjektes

**Anhänger - Rangierhilfe**

issued by:

**Kraftfahrt-Bundesamt (KBA)**

according to § 22 and 20 Straßenverkehrs-Zulassungs-Ordnung (StVZO) for a type  
of the following approval object

**trailer maneuvering system**

Genehmigungsnummer: **91896\*01**

Approval number:

1. Genehmigungsinhaber:  
Holder of the approval:  
**Purple Line GmbH**  
**DE-40212 Düsseldorf**
2. Gegebenenfalls Name und Anschrift des Bevollmächtigten:  
If applicable, name and address of representative:  
**Entfällt**  
**Not applicable**
3. Typbezeichnung:  
Type:  
**EGO500**

Genehmigungsnummer: **91896\*01**  
Approval number:

4. Aufgebrachte Kennzeichnungen:  
Identification markings:  
**Hersteller oder Herstellerzeichen**  
**Manufacturer or registered manufacturer's trademark**  
  
**Typ**  
**Type**  
  
**Genehmigungszeichen**  
**Approval identification**
  
5. Anbringungsstelle der Kennzeichnungen:  
Position of the identification markings:  
**Siehe Punkt 1.5 des Prüfberichtes**  
**See point 1.5 of the test report**
  
6. Zuständiger Technischer Dienst:  
Responsible Technical Service:  
**Technischer Dienst der TÜV Rheinland Kraftfahrt GmbH**  
**DE-51105 Köln**
  
7. Datum des Prüfberichts des Technischen Dienstes:  
Date of test report issued by the Technical Service:  
**07.04.2022**
  
8. Nummer des Prüfberichts des Technischen Dienstes:  
Number of test report issued by that Technical Service:  
**215KA0010-00**
  
9. Verwendungsbereich:  
Range of application:  
**Das Genehmigungsobjekt „Anhängel - Rangierhilfe“ darf nur zur Verwendung gemäß:**  
***The use of the approval object „trailer maneuvering system“ is restricted to the application listed:***  
  
**Punkt 4. des Prüfberichtes**  
**Point 4. of the test report**

**unter den angegebenen Bedingungen an den dort aufgeführten bzw. beschriebenen Kraftfahrzeugen feilgeboten werden.**  
***The offer for sale is only allowed on the listed vehicles under the specified conditions.***

10. Bemerkungen:  
Remarks:  
**Es gelten die im o.g. Gutachten nebst Anlagen festgehaltenen Angaben.**  
**The indications given in the above mentioned test report including its annexes shall apply.**
- Die Anforderungen des Artikels 31, Absätze 5, 6, 8, 9 und 12 der Richtlinie 2007/46/EG - Verkauf und Inbetriebnahme von Teilen oder Ausrüstungen, von denen ein erhebliches Risiko für das einwandfreie Funktionieren wesentlicher Systeme ausgehen kann - sind sinngemäß erfüllt.**  
**The requirements of Article 31, paragraphs 5, 6, 8, 9 and 12 of directive 2007/46/EC - Sale and entry into service of parts or equipment which are capable of posing a significant risk to the correct functioning of essential systems - are met.**
- Neuerteilung der Genehmigung aufgrund des Brexit unter Beibehaltung der Genehmigungsnummer.**  
**New granting of the type approval because of the Brexit while maintaining the approval number.**
11. Änderungsabnahme gemäß § 19 (3) StVZO:  
Acceptance test of the modification as per § 19 (3) StVZO:  
**Siehe Prüfbericht**  
**See test report**
12. Die Genehmigung wird **erteilt**  
Approval is **granted**
13. Grund (Gründe) für die Erweiterung der Genehmigung (falls zutreffend):  
Reason(s) for the extension (if applicable):  
**Entfällt**  
**Not applicable**
14. Ort: **DE-24932 Flensburg**  
Place:
15. Datum: **26.04.2022**  
Date:
16. Unterschrift: **Im Auftrag**  
Signature:

  
Dirk Hansen



**Inhaltsverzeichnis zu den Beschreibungsunterlagen  
Index to the information package**

Nummer der Genehmigung: **91896\*01**  
Approval No.

Ausgabedatum: **26.04.2022**  
Date of issue:

letztes Änderungsdatum: --  
last date of amendment:

Nebenbestimmungen und Rechtsbehelfsbelehrung  
Collateral clauses and instruction on right to appeal

Prüfbericht(e) Nr.:  
Test report(s) No.:  
**215KA0010-00**

Datum:  
Date  
**07.04.2022**

Beschreibungsbogen Nr.:  
Information document No.:  
**Entfällt**  
**Not applicable**

Datum:  
Date

Liste der Änderungen:  
List of modifications:  
**Entfällt**  
**Not applicable**

Datum:  
Date

Approval No.: 91896\*01

– Attachment –  
Collateral clauses and instruction on right to appeal

### **Collateral clauses**

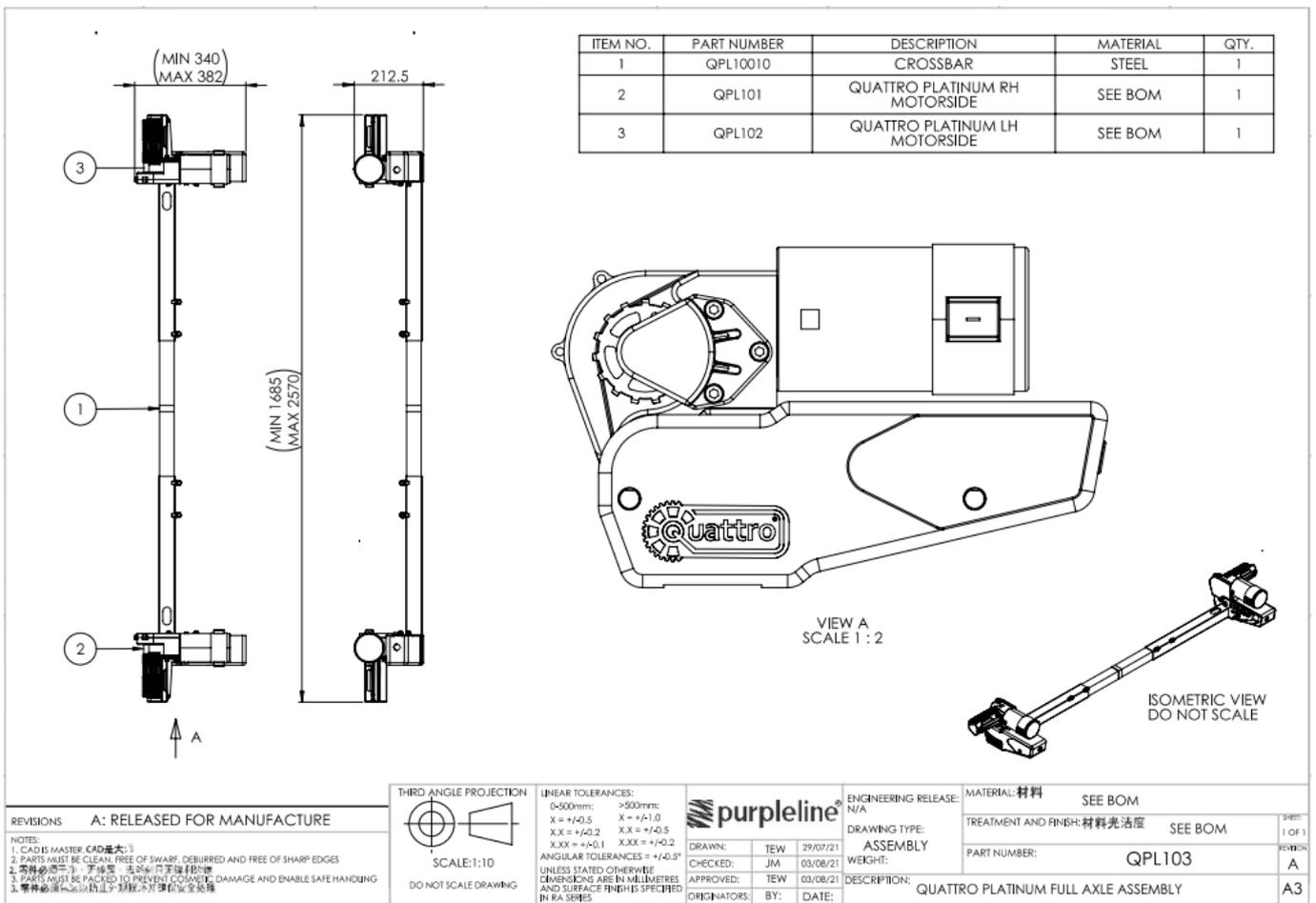
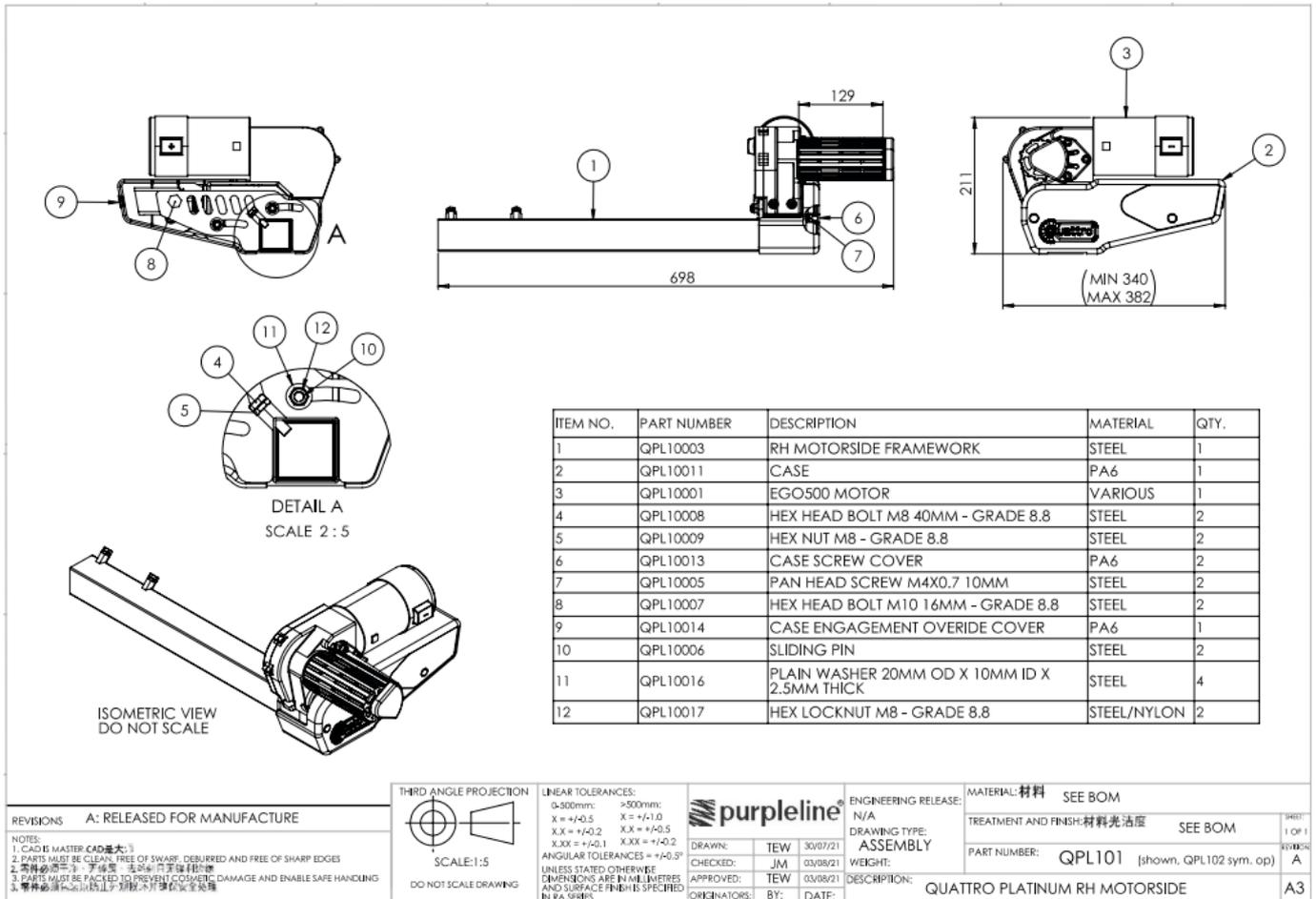
All equipment which corresponds to the approved type is to be identified according to the applied regulation. The approval identification is as follows: – see German version –  
The individual production of serial fabrication must be in exact accordance with the approval documents. Changes in the individual production are only allowed with express consent of the Kraftfahrt-Bundesamt.  
Changes in the name of the company, the address and the manufacturing plant as well as one of the parties given the authority to delivery or authorised representative named when the approval was granted is to be immediately disclosed to the Kraftfahrt-Bundesamt.

Breach of this regulation can lead to recall of the approval and moreover can be legally prosecuted.  
The approval expires if it is returned or withdrawn or if the type approved no longer complies with the legal requirements. The revocation can be made if the demanded requirements for issuance and the continuance of the approval no longer exist, if the holder of the approval violates the duties involved in the approval, also to the extent that they result from the assigned conditions to this approval, or if it is determined that the approved type does not comply with the requirements of traffic safety or environmental protection.  
The Kraftfahrt-Bundesamt may check the proper exercise of the conferred authority taken from this approval at any time. In particular this means the compliant production as well as the measures for conformity of production. For this purpose samples can be taken or have taken. The employees or the representatives of the Kraftfahrt-Bundesamt may get unhindered access to the production and storage facilities.  
The conferred authority contained with issuance of this approval is not transferable. Trade mark rights of third parties are not affected with this approval.

### **Instruction on right to appeal**

This approval can be appealed within one month after notification. The appeal is to be filed in writing or as a transcript at the Kraftfahrt-Bundesamt, Fördestraße 16, DE-24944 Flensburg.

# DIMENSION



Fritz Berger GmbH • Fritz-Berger-Str. 1 • 92318 Neumarkt • Germany

[service@fritz-berger.de](mailto:service@fritz-berger.de)

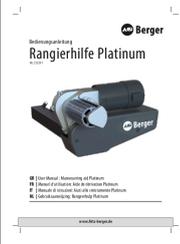
[service-client@berger-camping.fr](mailto:service-client@berger-camping.fr)

[servizio-client@berger-camping.it](mailto:servizio-client@berger-camping.it)

[klantenservice@berger-camping.nl](mailto:klantenservice@berger-camping.nl)

[www.fritz-berger.de](http://www.fritz-berger.de)

## Documents / Resources

	<p><a href="#">Berger 213291 Platinum Manoeuvring Aid</a> [pdf] User Manual 213291 Platinum Manoeuvring Aid, 213291, Platinum Manoeuvring Aid, Manoeuvring Aid, Aid</p>
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## References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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