

# Instruction manual and warranty booklet

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# 1. RECOMMENDATIONS AND HEALTH AND SAFETY REGULATIONS

In accordance with road traffic regulations, a trailer needs to be registered and insured prior to its operation on the public highway.

Before starting operation of a trailer, you must:

- read the instruction manual carefully.
- acquaint yourself with road traffic regulations concerning trailer operation.
- pay attention to wear and tear of the ball and to relative deformation of the coupling head elements.
- **Before the first operation you must:**
  - ✓ check tyre pressure on the trailer and inflate, if needed, according to manufacturer's recommendations indicated on a tyre or to the data in table 2 herein (point 5).
  - ✓ check fastening bolts on driving wheels for tightness (according to point 5).
  - ✓ couple the trailer to the vehicle in accordance with the instructions (point 4.3).
  - ✓ apply the trailer's parking brake (if there is one) and verify its correct functioning (point 4.5 c).
  - ✓ connect the wiring system to the tow vehicle and verify the system's correct functioning.
  - ✓ check the hydraulic system (if there is one) for tightness.
  - ✓ check all the fastening elements of wheels, coupling units, axles and drawbar, except the M20x1.5 nut fastening the hub, and tighten them if needed, according to the requirements of table 1 (point 5) herein.
- During the operation of the trailer, remember that:
  - ✓ you should keep a speed reserve, so that in case of a side skid of the trailer you can quickly increase speed and get back on track.
  - ✓ you should be careful while driving downhill, especially when the road surface is wet.
  - ✓ the braking distance of a car with a trailer is longer than that of a car alone.
  - ✓ the load should be evenly distributed on the trailer and secured to prevent displacement.
  - ✓ you must strictly respect the maximum mass on each axle and the gross weight rating.
  - ✓ you must not transport people inside the trailer.
  - ✓ the weight of the trailer must not equal or exceed the weight of the tow vehicle.

## 2. Identification data

a) The trailer's identification data consist of a nameplate and an identification number stamped on the right front side of the trailer (Fig. 1). All the nameplates and markings of the vehicle must be always visible.



Fig. 1. Location of the trailer's nameplate

The nameplate contains the following data:

- ✓ homologation number,
- ✓ the vehicle identification number (VIN),
- ✓ the gross weight rating.

b) Axles identification. The serial number and the type of axle and are stamped on a nameplate attached to the axle beam.

## 3. Marking plates (applies to long and heavy vehicles or combination of vehicles)

In accordance with the *Regulation of the Minister of Infrastructure of 31 December 2002 on the technical requirements applicable to vehicles as well as the scope of the necessary equipment*, vehicles or combinations of vehicles longer than 8 metres or with the gross weight rating over 12t should be equipped with marking plates.

Such marking alerts that the vehicle is long and the overtake distance will be long, which impacts safety.

## 4. Use of the trailer

**4.1.** Trailers are adapted to be pulled by all car vehicles equipped with a Ø50 tow ball made in accordance with the h13 ISO tolerance, fulfilling the requirements of the EU directive 94/20 EG and the DIN 74058 standard. In accordance with the applicable provisions, the ball's diameter must be between 49.61 and 50 mm, the diameter of the frame under the ball – between 27 and 29 mm, and the ball must be located  $425\pm 35$  mm from the ground surface. The car should also be equipped with 7- or 13-pin plug-in sockets.

### 4.2. Loading and unloading of the trailer

- ✓ Trailers must be loaded and unloaded only when they are attached to the vehicle.
- ✓ When loading the trailer, you should make sure that the weight of the load is evenly distributed and secured, and the tongue weight amounts to at least 5% of the loaded trailer's weight, however, it should not exceed:
  - 500 N (50 kg) for the trailers with gross vehicle weight rating of up to 500 kg,
  - 750 N (75 kg) for the trailers with gross vehicle weight rating of up to 750 kg,
  - 1000 N (100 kg) for the trailers with gross vehicle weight rating of 900 ÷ 2500 kg (or the weight determined for the tow bar).
- ✓ The load shall be secured from moving. If it is attached by mounting brackets, you should follow the rules depicted on Fig. 2. The weight on the mounting bracket should not exceed 400 kg for vehicles with GVWR not exceeding 3.5 t.

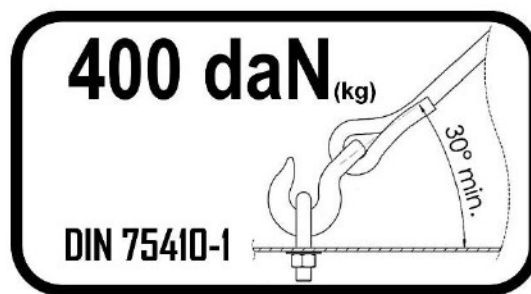


Fig. 2. Loading rules for mounting brackets

***WARNING!!! You should avoid trailer overloading! The gross trailer weight rating is indicated on the excerpt from the homologation certificate and the nameplate.***

### 4.3. Attaching and detaching a non-braked trailer

#### a) Attaching

The trailer and the car's hitch should be coupled with the use of coupling head, as described below:

1. Install the safety line on the hitch.
2. Open the coupling head – (pull up the handle 1 of the coupling head) (Fig. 3).
3. Put the opened coupling head onto the hitch ball. The pressure on the hitch ball will cause the coupling head to close itself automatically to the initial position (in case of insufficient pressure on the trailer support, you should press the coupling head downwards until closure, e.g. in tandem type trailers).
4. Due to safety reasons, press the handle 1 downwards (Fig. 3).
5. Closing and securing occur automatically.
6. The coupling head is mounted correctly on the ball when the safety indicator 2 is on the green area of the coupling head wear indicator (Fig. 3). The red area of the indicator informs about the wear of the hitch ball or/and the coupling head.
7. Connect the trailer's electrical installation to the car's electrical installation by putting the connector into the hitch plug-in socket.
8. Check if the trailer's lights are functioning correctly.
9. Secure the jockey wheel (if the trailer is equipped), according to the instruction (point 4.4).

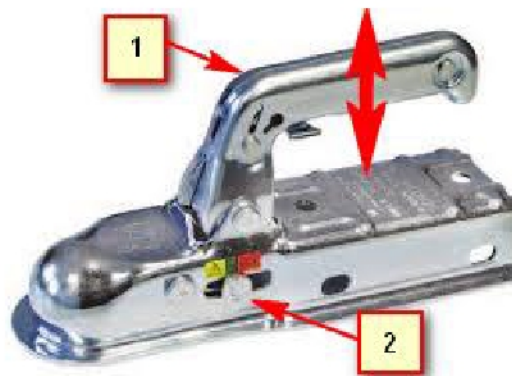


Fig. 3. Coupling head

#### b) Detaching

Before detaching the trailer, you should secure it with wheel chocks against unintended rolling off, and then:

- 1) Unplug the electrical installation and put the connector in the holder.
- 2) Pull up the coupling head handle 1 (Fig. 3).
- 3) Raise the coupling head off the hitch ball of the towing vehicle (using a jockey wheel if the trailer is equipped with it).
- 4) Disconnect and take off the safety line.

#### 4.4. Jockey wheel

Some of the trailers are equipped with a jockey wheel as a standard or on request, which are intended only for supporting the trailer when parked. This element helps to attach and detach the trailer and the car, roll the empty trailer and change the driving wheel. After coupling the trailer to the tow vehicle, the jockey wheel should be detached or set in the safe position. In order to do this, you should:

- 1) Rotate the crank handle 1 of the jockey wheel clockwise, until the bolt is completely screwed in and the supporter placed in the notch of the external tube (Detail A Fig. 4).
- 2) Open the clamp bracket 3 and raise the jockey wheel 2 fully upwards (Fig. 4).
- 3) Close the clamp bracket 3 (Fig. 4).

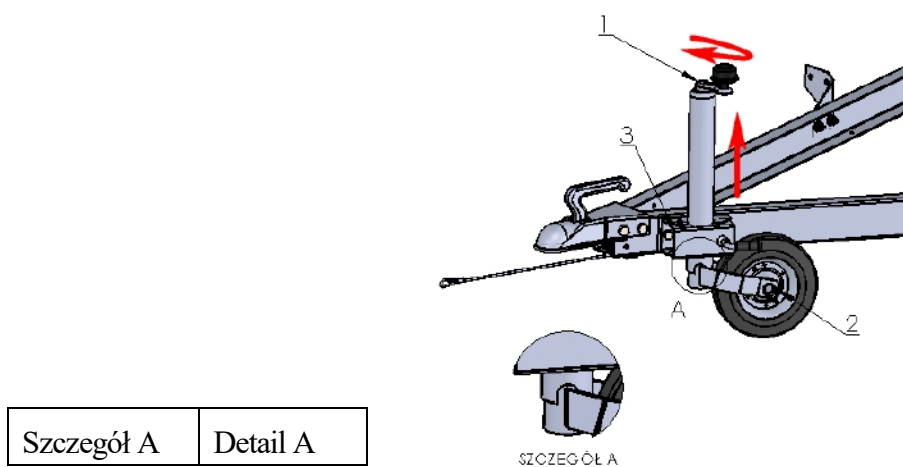


Fig. 4. Jockey wheel handling

**4.5. Attaching braked trailers, and handling and construction of coupling units according to the manufacturer's instruction manual, attached to this manual.**

##### a) Safety line

Push the carabiner through the drawbar eye on the tow vehicle and lock it on the safety line or wrap the safety line around the hitch and lock the carabiner on the safety line. You should always install the safety line in such a way that cornering will not cause any difficulties.

***WARNING!!! Too short line may actuate the brakes!***

##### b) Wear indicator

The wear indicator placed on the coupling head handle shows the wear limit for the coupling head or the hitch ball. If the wear indicator area is green while being coupled, it means that the wear of the coupling ball and the hitch ball are within the specified limits. The red area indicates the exceeding of

the limit values of wear of the coupling ball and/or the hitch ball (Fig. 5 a). The coupling unit is additionally equipped with a coupling safety indicator. The coupling is correctly coupled if its green area is visible on the coupling indicator (Fig. 5 b).

If the only visible area is red, there is a risk of releasing the coupling head. When at least one indicator shows the exceeding of the wear limit values, you should immediately check the coupling elements and have the worn components replaced.

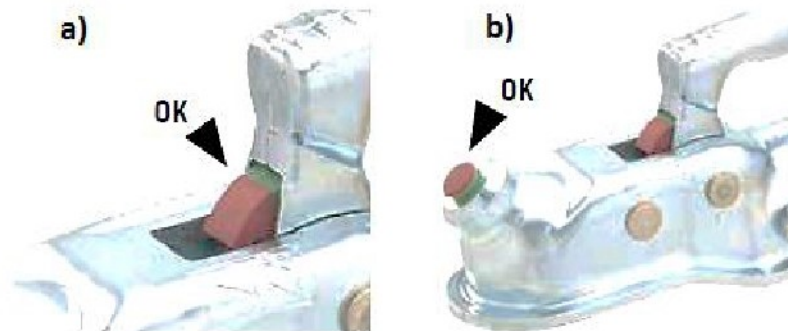


Fig. 5. Coupling head wear indicators

### c) Parking brake

If the trailer is equipped with a parking brake, shown in Fig. 6, the handle in bottom position means that the trailer is currently unbraked. Dragging the handle upwards causes the trailer's immobilisation. To release the brake, you should press and hold the lock button, then move the handle through the dead centre area to the initial position.



Fig. 6 Settings the trailer's parking brake

***WARNING!!! The lock button is not available in all variants. The trailer may roll off 25-30 cm until reaching the braking force transmission point. Keep a safe distance while parking!***

#### d) Coupling the coupling unit with a vehicle

- 1) Place the coupling head over the hitch.
- 2) Open the coupling head.
- 3) Rotate the crank handle of the jockey wheel clockwise, in order to lower the trailer's coupling unit, until the coupling head is locked.
- 4) Keep rotating the crank handle until the bolt is be completely screwed in.
- 5) Open the clamp bracket.
- 6) Raise the jockey wheel as high as possible.
- 7) Close the clamp bracket.
- 8) Connect the electrical installation to the tow vehicle.
- 9) Wrap the safety line around the hitch and lock the carabiner on the safety line (Fig. 7 a).
- 10) If the tow vehicle is equipped with an eye ring, push the safety line through the eye ring and lock the carabiner on the safety line (Fig. 7 b) (If the safety line is equipped with a 70 mm carabiner hook, according to the DIN 5299 standard it is allowed to lock the carabiner on the eye ring of the vehicle (Fig. 7 c)).
- 11) Remove the wheel chocks and release the parking brake handle.

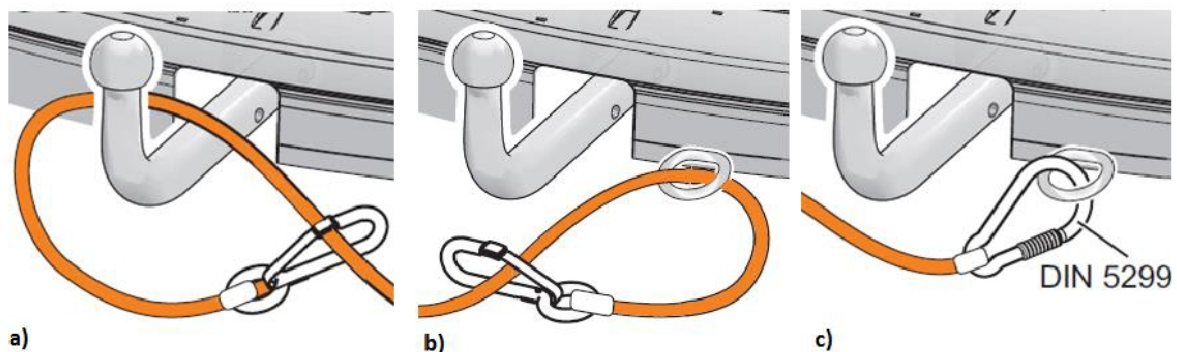


Fig. 7. Locking the safety line



**4.6. The wheel hub of non-braked trailers.**

Figures 8 and 9 present the cross-sections of wheel hubs with bearing manufactured by KNOTT and AL-KO.

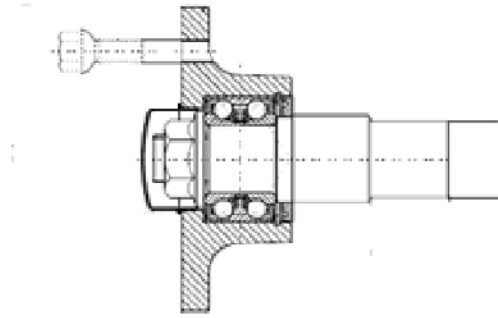


Fig. 8. Cross-section of the KNOTT wheel hub with bearing

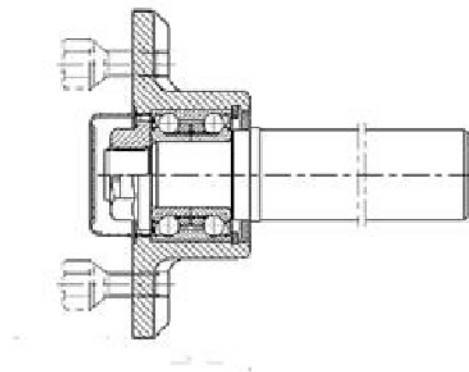


Fig. 9. Cross-section of the AL-KO wheel hub with bearing

***WARNING!!! Compact double row bearing used in AL-KO and KNOTT axles does not require lubrication and are maintenance-free.***

#### 4.7. Spring set (only for wishbone suspension trailers)

Wishbone is a suspension part equipped with coil springs and a shock absorber. It is intended to counteract the wheels' vertical vibrations and absorb road vibrations. It is attached to the central beam and the wishbone beam with bolts. Figure 10 presents a spring set diagram.

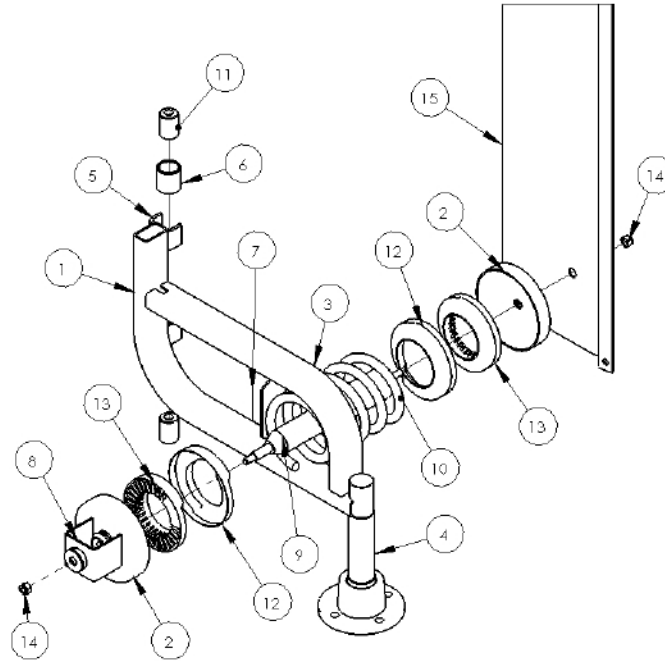


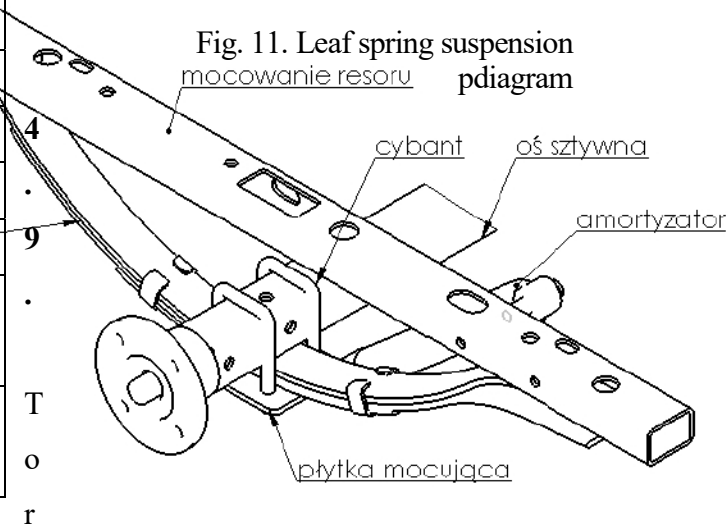
Fig. 10. Spring set diagram

ELEMENT NUMBER	PART NUMBER	DESCRIPTION	QTY
1	23.60.115.01.02	Long drawbar	1
2	23.44.115.03.02	Wishbone pan	2
3	23.60.115.02.02	Short wishbone arm	1
4	Półoś	Semi-axis	1
5	23.60.115.04.02	Bushing bracket	2
6	23.60.115.06.02	Bushing	2
7	23.60.115.07.04	Bumper bracket	1
8	23.44.115.05.02	Shock absorber bracket	1
9	Amortyzator 1.26227 - Fiat 126P	Shock absorber	1
10	Sprężyna 4297957 zaw. tył	Coil spring	1
11	Fiat - tuleja 00215766	Trailing arm bushing	2
12	Miska sprężyny wahacza 411.16.25	Wishbone spring pan	2
13	Pierścień gumowy 412.16.25	Rubber 'O'ring	2
14	Nakrętka M10 x 1,25	Locknut	2
15	108.100.11.00	Wishbone beam	1

#### 4.8. Leaf spring (only for leaf spring suspension trailers)

Figure 11 presents leaf spring suspension diagram. Flat steel plates of various lengths are placed along the trailer, perpendicularly to the suspension axis. The whole construction is attached to the suspension bracket, which is bolted to the trailer's frame. The leaf spring can be additionally equipped with a shock absorber, which helps absorbing arising vibrations.

Mocowanie resoru	Suspension bracket
Tulejka	Bushing
Pióro	Flat bars
Cybant	U-bolt
Oś sztywna	Stiff axis
Amortyzator	Shock absorber
Płytki mocująca	Anchorage plate



sion beam axle

Figure 12 and 13 present the quadrate torsion beam axle (KNOTT) and the hexagonal torsion beam axle (AL-KO) with rubber torsion rollers. It is a special construction designed to increase the comfort and safety of driving with a trailer. Its operation is based on rolling three (AL-KO) or four (KNOTT) rubber torsion rollers between the external tube and the internal profile. The axle is attached to the frame with bolts and nuts.

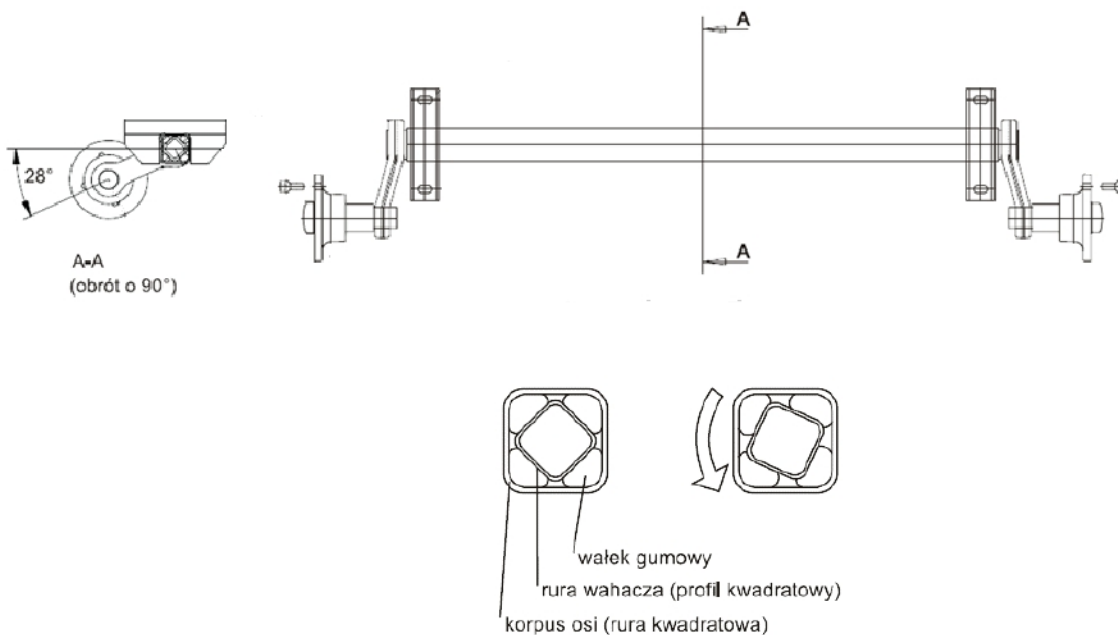


Fig. 12. KNOTT torsion beam axle

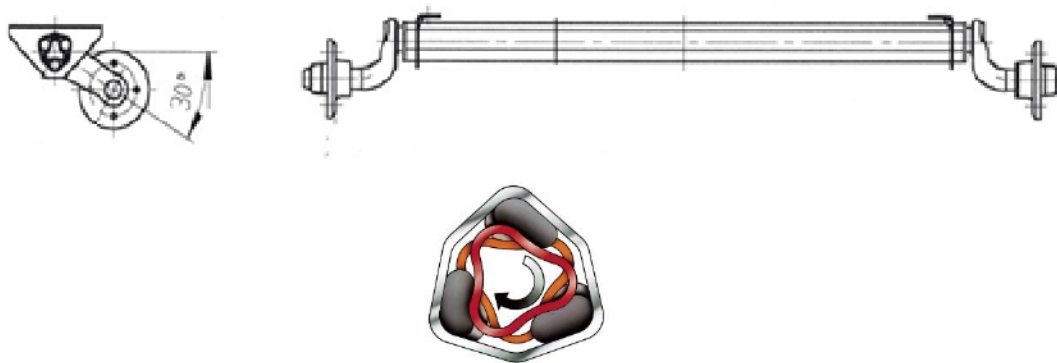


Fig. 13. AL-KO torsion beam axle

## 5. Maintenance and service

Every 6 months or 1500 km, you should check the fastening elements of axles, the coupling unit, the drawbar and tighten them if needed in accordance with Table 1 or the PN-EN 14399 Standard. Besides the systematic monitoring of the coupling head performance, you should clean and lubricate the sliding surfaces of the coupling and the joint every 12 months, using multipurpose grease in accordance with DIN 51825KTA3K, lubricating the valve spring simultaneously. You should also check the road wheels' mounting bolts on a regular basis and tighten them after a long ride and every wheel change. It is recommended to tighten the trailer's wheels' mounting bolts with a torque wrench in accordance with the manufacturer's recommendations or Table 1.

Table 1. The advised tightening force for trailer's fastening elements

	Unit	Torque [Nm]
1	Drawbar and coupling unit mounting bolts	$120 \pm 10$
2	Axle mounting bolts	$110 \pm 10$
3	Wheel and wheel hub mounting bolts	$90 \div 110$

### Trailers with a tiltable drawbar:

Before each ride, you should check the correctness of tension on the lock connecting the drawbar with the trailer body (ease between the front beam and the drawbar arms is unacceptable).

Advised pressures for tyres are presented in Table 2.

*Table 2. Advised pressures for tyres*

Tyre size	Advised pressure with maximum load	
	[bar]	[kPa]
155/70 R13	3	300
165/70 R13	2.5	250
165 R13 LT	4.5	450
165 R13 C	4.5	450
195/50 B10	5.5	550
195/55 R10	6	625
185 R14C	4.5	450
195/50 R13 C	6.5	650

Check and refill tyre pressure on regular basis.

Keeping a correct tyre pressure ensures:

1. correct vehicle traction.
2. extended tyre lifetime (an even use of tread).
3. minimisation of the tyre rolling resistance, therefore lower fuel consumption.
4. improvement in the stability of the vehicle during ride and braking.

## **6. Trailer maintenance**

The trailer should be cleaned as needed. However, it is advised to clean it after every transport of materials which might cause steel corrosion.

Guidelines for trailer cleaning:

- Use only clean tap water with addition of natural detergents.
- The use of pressure washer increases cleaning effectiveness, but you have to be particularly careful while using it. While cleaning, do not get the nozzle closer than 40 cm to the cleaned surface.
- Do not the point stream of water directly on the elements of the electrical installation, braking actuators, hydraulic cylinders, electrical plugs, information and warning labels, nominal plates, flexible pipes, etc. The high pressure of the stream of water may cause damage to these elements.
- Do not point the stream of water on lubricated points of the trailer.

- During the winter period, it is advised to clean the trailer's chassis more frequently because of the negative effect of road-sanding.
- Boat trailers exposed to sea salt on the zinc coat should be cleaned more frequently.
- After washing, wait until the trailer dries and then lubricate all the check points in accordance with the guidelines. Wipe the excess of grease or oil with dry cloth.

## **7. Storing**

It is advised to keep the trailer in enclosed or roofed spaces. If the trailer will not be used for a long period of time, it is important to secure it against atmospheric factors, especially the ones which cause corrosion and speed up the aging of tyres and/or tarp. In case when the trailer will not be stored under roofing in order to avoid frame damage, you should set up the trailer using drawbar, so the surface of the tarp is set at a right angle to enable rainfalls or snowfalls to slide off. During that time, the trailer has to be unloaded.

The trailer should be carefully cleaned and dried. Corrosion spots should be secured using primer paint and then painting them using zinc paint. In case of a long period of standstill, it is necessary to lubricate all elements regardless of the time of the last procedure. Rims and tyres should be carefully cleaned and dried. During long periods of storing of not used trailer, it is advised to move the trailer in a way so the contact spot of the tyres and ground change to a different position once 2-3 weeks. This way, tyres will not deform and will keep correct geometry. You should also monitor tyre pressure and its necessary pump the tyres up to the correct value.

***WARNING!!! The frame was not designed to transfer vertical loads caused by the remains of precipitations, that is why all their accumulations should be removed immediately!***

## 8. Electrical installation

### a) Electrical installation diagrams

The electrical connection of the trailer and the car is realized by seven- and thirteen-pin plug-ins 12VBN-80/368687-17. The connect diagram for the trailer receivers and connection with a car for a 7-pin plug-in is presented on Diagram 1, and for 13-pin plug-in – Diagram 2. In case of the vehicle with a 13-pin socket and the trailer with a 7-pin plug-in, the connection can be achieved via an adapter.

Connect Number	Circuit Description	Wire colour
1	Left Indicator	yellow
2	Fog lamp	blue
3	Ground	white
4	Right Indicator	green
5	Right position lamp	brown
6	Stop	red
7	Left position lamp	black

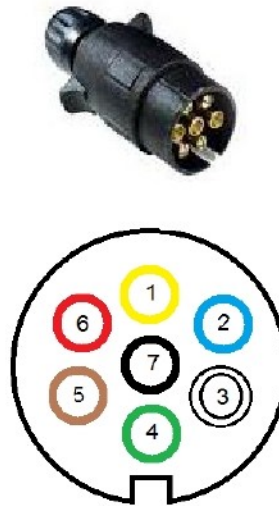


Diagram 1. 7-pin electrical installation.

Connect Number	Circuit Description	Wire colour
1	Left Indicator	yellow
2	Fog lamp	blue
3	Ground for 1-8 Pins	white
4	Right Indicator	green
5	Right position lamp	brown
6	Stop	red
7	Left position Reversing	black
8	lamp	grey
9	Permanent supply	blue-brown
10	Charging clamp	brown-red
11	Ground for 10pin	white-red
12	Trailer connection test	
13	Ground for 9, 11-12 Pins	white-black






Diagram 2. 13-pin electrical installation.


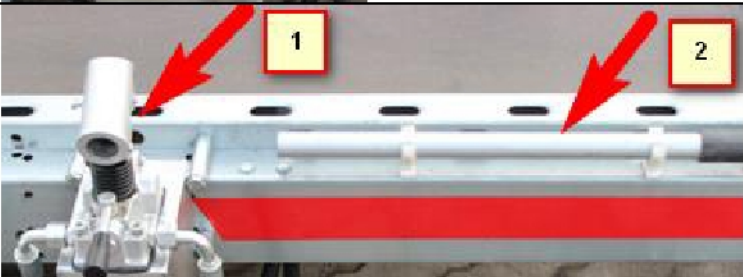
***WARNING!!! The correct functioning of the trailer's lights must be checked before every ride!***

b) Description of the replacement, maintenance and repair of the trailer's electrical installation



Used bulbs can be replaced after the cover is removed. While replacing bulbs, take adequate power into account. The reversing lamps can operate only via a 13-pin trailer plug-in and a 13-pin tow vehicle socket.

**9. Operating of hydraulics in MOTO-QUAD trailers**




<b>Lowering the trailer</b>	
1. Unblock the mudguards	
2. Remove the pins. Undo the safety connectors.	
3. Turn the control valve to the left	
<p><i>Warning</i> <i>The control valve should be opened as slowly as possible. Fast opening to the max position will result in fast lowering, which may cause frame damage.</i></p>	




<b>Raising the trailer</b>	
1. Turn the control valve to the right	
2. Place the pump handle 2 into the pump actuator slot 1 – raise the trailer's by pumping up	



<p>3. Fasten the safety connectors. Place the pins in the safety spot.</p>	
<p>4. Block the mudguards</p>	
<p><i>Warning: Both lowering and raising should happen when the trailer is coupled with a tow vehicle. During the ride, the control valve should be directed to the right.</i></p>	

**10. Operating of hydraulics in CARKEEPER trailers**

<p><b>Lowering the trailer</b></p>	
<p>1. Remove the pins. Undo the safety connectors.</p>	
<p>2. Turn the control valve to the left.</p>	
<p>3. Using the actuator's handle, pump to lower the trailer.</p>	

<b>Raising the trailer</b>	
1. Turn the control valve to the right.	
2. Using the actuator's handle, pump to raise the trailer.	
4. Fasten the safety connectors. Place the pins in the safety spot.	
<i>Warning: Both lowering and raising should happen when the trailer is coupled with a tow vehicle. During the ride, the control valve should be directed to the right.</i>	

1- Raising /transport
2- Neutral position
3- Lowering



Fig. 14. Hydraulic pump's control valve positions

## 11. Lubricating

For correct operation of trailers, it is necessary to lubricate the moving components, e.g. the sliding bearings, bolts, the coupling and sliding and hinge of the coupling unit, the mount of hydraulic cylinders. This clearly extends the lifetime of these elements, which is why it should be performed at least once a year or every 10000 – 12000 km, with universal grease complying with the DIN 51825 KTA3K standard.

***Warning!!! The rubber torsion bars in axles do not require lubrication!  
The coupling head with AKS do not require maintenance and lubrication. Friction linings soiled with grease have to be replaced immediately.***

# Certificate of warranty

## 1. Trailer's identification data

TEVA Sp.z o.o., sp. k trailer type \_\_\_\_\_, homologation certificate No. \_\_\_\_\_, is allowed to traffic on public roads by the Ministry of Infrastructure, Department of Road Transport.

Type of trailer \_\_\_\_\_

Variant \_\_\_\_\_ - version \_\_\_\_\_

Trade name \_\_\_\_\_

Warranty No. \_\_\_\_\_

Trailer's VIN No. \_\_\_\_\_

\_\_\_\_\_  
/stamp and signature/

The trailer was sold on: \_\_\_\_\_

### Owner's details:

Name and surname \_\_\_\_\_

Address: (street/locality/postcode) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
/stamp and seller's signature/

## GENERAL TERMS OF WARRANTY

### FORTEMA Sp. z o.o. sp.k. CAR TRAILERS

#### Definitions:

„TEMA Sp. z o.o. Sp.k." - TEMA Sp. z o.o. sp. k., having its registered office in Świdnik, 21-045, ul. AL. Lotników Polskich 1, entered by the District Court Lublin-Wschód in Lublin, seated in Świdnik, VI Economic Division of the National Court Register (KRS), into the Register of Businesses of the National Court Register under No. 0000535675, NIP (Tax ID): 712-323-86-71

„Product" – products, elements of equipment and their spare parts, offered by TEMA Sp. z o.o. Sp.k.

„Buyer" – a person who purchased a TEMA Sp. z o.o. Sp.k. product covered by these terms of warranty.

„Agreement" – a sales agreement between the Buyer and the Guarantor, including the offer description and the order contents if the parties didn't conclude a separate agreement.

#### 1. General terms

- 1.1. TEMA Sp. z o.o. Sp.k., hereinafter referred to as the „Guarantor" or „TEMA Sp. z o.o. Sp.k.", guarantees the Buyer the quality of its Product purchased from the Guarantor or its Dealer, in accordance with the terms of warranty stated hereunder.
- 1.2. The warranty is valid in the Republic of Poland. The Guarantor has no obligation to perform the obligations arising from the warranty outside the Republic of Poland.
- 1.3. The warranty is given for 12 months. The warranty period begins when the Product is delivered to the Buyer or when the Buyer is called to collect the Product if they are delaying its collection directly from TEMA Sp. z o.o. Sp.k. (Basic Warranty Period).
- 1.4. The warranty period is prolonged for the period of performing free repair in the warranty period (Warranty Repair) on each occasion.
- 1.5. The Guarantor guarantees, for the warranty period, that the Product is free from defects in material and workmanship and guarantees its proper (according to the product specification) operation under normal operating conditions for which it is intended, consistent with the instruction manual.
- 1.6. The Guarantor undertakes to rectify defects in material or workmanship revealed within the warranty period free of charge, in accordance with the rules stated in these General Terms of Warranty, by repair or replacement of the Product or its components with a product or components free of defects. The manner of defect rectification is decided upon by the Guarantor.
- 1.7. Defects will be rectified by the service station of the Guarantor or a service station designated by the Guarantor.
- 1.8. The Buyer will not bear the costs for warranty repairs and spare parts replaced under the warranty due to a revealed defect.
- 1.9. The Guarantor is not liable for any damage to the Buyer, even if they were due to revealed defects of the Product, as well as for any trading losses, losses of profit and other indirect or consequential losses resulting from the Product's defect.
- 1.10. The Guarantor's liability under statutory warranty shall be excluded if the Product is purchased by an entrepreneur.
- 1.11. The Buyer has a right to prolong the Basic Warranty Period up to 24 months (Maximum Warranty Period), in which case:
  - 1) warranty checks have to be performed in accordance with the schedule of periodic checks, by authorised service stations,
  - 2) the person entitled to the warranty delivers the Product at their own expense,
  - 3) each check has to be recorded in the Product's Warranty Card,
  - 4) the lack of record results in the loss of extended warranty coverage entitlements,
  - 5) The Guarantor can refuse to perform a warranty check if the Product's technical state is improper.

## 2. Warranty coverage

2.1. The warranty only covers the Product of the Guarantor, i.e. the trailer (construction elements, chassis, body, wheels and suspension, installations).

2.2. The warranty only covers defects in the sold Product itself. A defect in material and workmanship is a defect in the Product which results in its functioning not compliant with the manufacturer's specification.

2.3. The warranty does not cover:

- 1) defects and damage revealed or reported after the warranty period;
- 2) natural wear and tear of consumable parts, such as: brake linings and their components, brake cables and their components, tyre's tread, light bulbs, etc; as well as the Product's deteriorating appearance, resulting from its operation and ageing;
- 3) defects and damage resulting directly or indirectly from the impact of natural forces, such as hail, thunderbolt, frost, water, salt, or of chemical substances, UV radiation, etc.;
- 4) defects and damage resulting directly or indirectly from: the failure to comply with the instruction manual, the misuse of the Product, the use of incorrect consumables (e.g. grease, oil, etc.) or chemical agents for surface cleaning, or the use of parts / components not recommended by the manufacturer;
- 5) defects and damage resulting directly or indirectly from changing the initial form or function of the Product, including its malfunction due to an incompatibility of autonomously installed components or parts;
- 6) defects and damage caused directly or indirectly in transport, resulting from the abuse or improper storage of the Product, due to its misuse or the failure to comply with the instruction manual;
- 7) damage resulting from fortuitous events (electrical faults, fire, flood, collisions and accidents, etc.);
- 8) damage resulting from the Product's operation in conditions or a manner not compliant with the manufacturer's specification or the instruction manual and in abnormal weather conditions;
- 9) defects and damage resulting directly or indirectly from the operation of the Product if it was not fully operational or was physically damaged when the defect or damage occurred.
- 10) service components and the elements of equipment covered by a separate warranty;
- 11) surface corrosion resulting from hitting by stones, gravel or other abrasive materials,
- 12) discolouration of galvanised sheet metal, resulting from weather factors.

2.4. The Buyer loses their warranty rights if:

- 1) the Product's instruction manual was not complied with, including the Product's misuse;
- 2) a periodic check of the Product was not performed by the Guarantor's service station (or a service station designated by the Guarantor) within the deadlines indicated in the instruction manual (the periodic checks are not performed under the warranty and are not free of charge),
- 3) the defect was not reported promptly after its detection, however not later than within 7 days from its detection,
- 4) the Product is incomplete, unauthorised repairs were performed, or the trailer's elements or construction were modified,
- 5) the Buyer failed to perform the measures described in the instruction manual, which they are obliged to perform on their own and at their own expense.

### **3. Warranty procedure**

- 3.1. The warranty is performed on the basis on a proof of sale of the Product (e.g. an invoice) and the warranty booklet of the Product.
- 3.2. The Guarantor issues a Warranty Booklet for its trailers, in order to record warranty checks.
- 3.3. In case of using warranty services, the Buyer has to deliver the Product to the warranty service station at their own expense and risk.
- 3.4. Before delivering the Product for warranty repair, the Buyer has to contact TEMA Sp. z o.o. Sp.k. by phone in order to have the Product's damage (defect) verified as actual by technical consultants, who will help resolve the problem or confirm the necessity to deliver the Product to the service station. Their assessment is preliminary and does not determine the recognition of warranty claims.
- 3.5. Warranty claims can be accepted, considered and cancelled only by the Guarantor or its authorised service point.
- 3.6. Each defect has to be promptly reported to the Guarantor's Dealer or the Guarantor, in writing to the address of the Guarantor's registered office or by e-mail at [reklamacje@temared.com](mailto:reklamacje@temared.com), not later than within 7 days of its detection. As a part of the report, the Buyer has to fill in the report form, conforming with the model from the website [www.temared.com/en](http://www.temared.com/en). Warranty claims, hereinafter referred to as complaints, made with the non-compliance of procedures and deadlines will not be considered.
- 3.7. The complaint has to be appended with a detailed description of signs of the Product's defective operation (defect), including the Product's operation environment and the character of defect, as well as the date and circumstances of its detection.
- 3.8. The Buyer has to inform the Guarantor in writing about any product modification, and in particular about additional appliances or components installed, before delivering the Product to the Guarantor. In the absence of such information, the Buyer bears the risk of accidental loss or damage to such elements.
- 3.9. The Guarantor will use its best efforts to rectify the defect within up to 30 days from the defective Product's delivery to the Guarantor. The Guarantor reserves the right to extend this period if it is necessary to import the elements for repair from outside the Republic of Poland or in other justified cases.
- 3.10. The Guarantor has the right to charge the cost of service and/or transport to the Buyer's account if the complaint was not justified, i.e. the Product was not covered by the warranty or was functional.
- 3.11. The parts and the Product replaced by the Guarantor become its property.
- 3.12. The warranty repair is documented in a repair record and recorded in the warranty booklet, if it was issued for the Product by the Guarantor.

### **4. General terms of maintenance**

- 4.1. Warranty checks should be performed every 6 months, according to the schedule in the Warranty Booklet.
- 4.2. The check is proved by its record by a TEMA Sp. z o.o. Sp.k. service technician (or a technician of the service point designated by TEMA Sp. z o.o. Sp.k.) in the Product's Warranty Booklet.
- 4.3. The costs of checks are borne by the Buyer.

### **5. Final provisions**

- 5.1. The Warranty Booklet overrides the factory warranties which may be included in the instruction manual or other documents accompanying the Product.
- 5.2. If the Buyer is delaying the payment for the Product to the Guarantor, the latter has the right to withhold the performance of its obligations under the warranty until the full payment has been made.
- 5.3. The rights and obligation of the parties under this warranty are governed solely by the provisions of the General Terms of Warranty and the Warranty Booklet.
- 5.4. The current list of authorised TEMA Sp. z o.o. Sp.k. service points is available at [www.temared.com/en](http://www.temared.com/en) or in the registered office of TEMA Sp. z o.o. Sp.k.

**Maintenance schedule**

<b>Maintenance intervals (number of months or driving distance, whichever comes first)</b>	<b>x months</b>	<b>6</b>	<b>12</b>	<b>18</b>	<b>24</b>
	<b>x kilometres</b>	<b>1500</b>	<b>3000</b>	<b>4500</b>	<b>6000</b>
Inspection of the axle fastening elements		X	X	X	X
Inspection of the coupling unit and the drawbar		X	X	X	X
Inspection of the hitch		X	X	X	X
Cleaning and lubricating the sliding surfaces of the coupling, the joint and the valve spring			X		X
Inspection of mounting bolts and the joint		X	X	X	X
Inspection of galvanised sheet metal surfaces		X	X	X	X

Perform the checks after the period indicated in the table, every 6 months or 1500 km.

## WARRANTY MAINTENANCE RECORD

Performing the checks in accordance with this schedule is a necessary condition for extending the warranty to the maximum of 24 months.

Check	Date, stamp and signature Notes of service station	
<p><b>Zero check</b> upon the purchase (optional)</p>		
<p><b>1st check</b> - 6 months from the date of purchase (necessary for the warranty extension)</p>		
<p><b>2nd check</b> - 12 months from the date of purchase (necessary for the warranty extension)</p>		
<p><b>3rd check</b> - 18 months from the date of purchase (necessary for the warranty extension)</p>		
<p><b>4th check</b> - 24 months from the date of purchase (optional)</p>		



**WARRANTY REPAIR RECORD**

The manufacturer's notes in case of changing the terms of warranty, and other information.....

.....

.....

No

.....

Warranty repair, record .....

Complaint content.....

.....

Reported on ..... Mileage in km.....

**Replaced parts**

Catalogue No.	Name of the part	Quantity
1. ....	.....	.....
2. ....	.....	.....
3. ....	.....	.....
4. ....	.....	.....

Issued on .....

User's signature .....

Service station signature and stamp .....

The manufacturer's notes in case of changing the terms of warranty, and other information.....

.....

No  
.....

Warranty repair, record .....

Complaint content.....

.....

Reported on ..... Mileage in km.....

**Replaced parts**

Catalogue No.	Name of the part	Quantity
1. ....	.....	.....
2. ....	.....	.....
3. ....	.....	.....
4. ....	.....	.....

Issued on .....

User's signature .....

Service station signature and stamp .....

The manufacturer's notes in case of changing the terms of warranty, and other information.....

.....

No .....

Warranty repair, record .....

Complaint content.....

.....

Reported on ..... Mileage in km.....

**Replaced parts**

Catalogue No.	Name of the part	Quantity
1. ....	.....	.....
2. ....	.....	.....
3. ....	.....	.....
4. ....	.....	.....

Issued on .....

User's signature .....

Service station signature and stamp .....

The manufacturer's notes in case of changing the terms of warranty, and other information.....

.....

No  
.....

Warranty repair, record .....

Complaint content.....

.....

Reported on ..... Mileage in km.....

**Replaced parts**

Catalogue No.	Name of the part	Quantity
1. ....	.....	.....
2. ....	.....	.....
3. ....	.....	.....
4. ....	.....	.....

Issued on .....

User's signature .....  
.....

Service station signature and stamp

