

FoldTrailer[®] Owner's Manual - FT 752

rev. 02



Congratulations on your purchase of a new FoldTrailer FT 752, the authentic version of the unique *one-step* wall folding trailer concept™. We are confident that you will be completely satisfied for decades to come with the quality of the product. We have paid special attention to ensure your satisfaction will be optimized for both your transport needs and effective storage needs. We do however suggest that you read this manual completely and follow all recommendations made, to ensure a safe and long lasting excellence of your trailer.

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1 GENERAL DESCRIPTION

1.1 General Arrangement



1.2 Technical Data

Type: FoldTrailer FT 752, category O1

Folding time: Substantially 40 seconds to wall (total folding 2 mins)

Folded package size: 1 ft off wall, Height 6.5', Width 5.3'

Gross dimensions: L 11.5', W 5.3', H 2.8'

Coupler-axle distance: 8.3'

Cargo Box size: L 6' x W 4' x H 10"

Amount of tie-down points: 6 rings and 8 "hat" taps

Gross weight: 1650 lbs

Net weight: 400 lbs

Max payload: 1250 lbs

Wheels: Tire 480-12 / Steel rim T12-4, tire air pressure rating 90 psi. DOT / Optional 13" wheel

Materials: Galvanized and electroplated steel, stainless steel, water proof plywood

Construction Speed: 65 Mph

Suspension; Leaf springs. Telescopic oil absorbers optional

Bearings: Tapered roller bearings (outer LM11949/10 & inner LM67049A/10)

Brakes: No

Light Voltage: 12 V, 4-pin cable plug, DOT

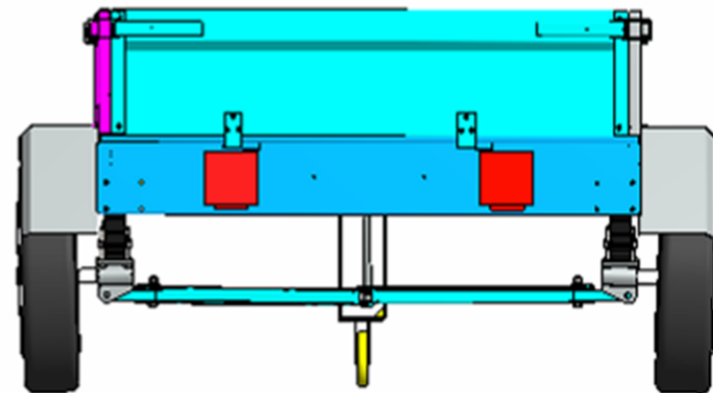
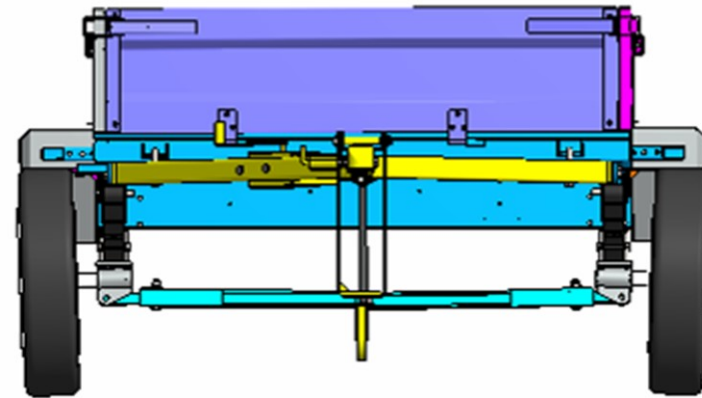
Tow Coupling: 2" ball coupler

Available Accessories; Tarp, spare wheel

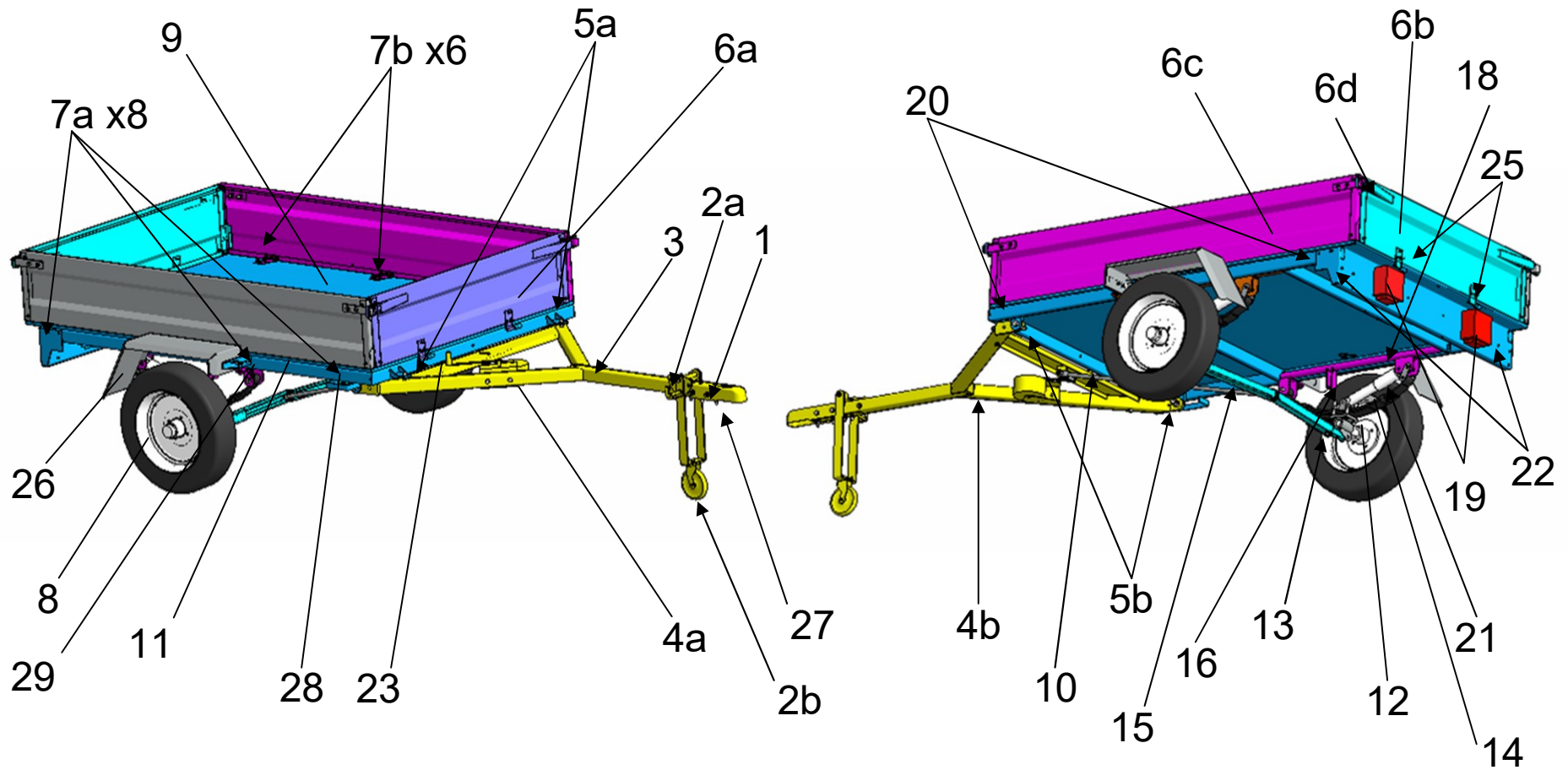


1.3 Parts List Overview

- **All references to the left and right are made when standing behind the trailer, facing the trailer**
- 1 Ball Coupler
- 2a Nose Wheel Adjustment
- 2b Nose Wheel
- 3 Drawbar
- 4a Winch
- 4b Wire and Block
- 5a Drawbar Latch (Eye Nut)
- 5b Drawbar Hinge
- 6a Front Wall
- 6b Rear Wall
- 6c Side Wall
- 6d Wall Latch
- 7a Tie-down Hat
- 7b Tie-down Ring
- 8 Wheel
- 9 Plywood Cargo Platform
- 10 Suspension Locking Device
- 11 Chassis / Frame
- 12 Hub and Axle Shaft
- 13 Lower Adjustment Bolt
- 14 Leaf Spring
- 15 Link Axle Connection
- 16 Rubber Bumper
- 18 Twist Suspension Modul
- 19 Tail Lights & Reflexes
- 20 Side Marker lights and reflexes
- 21 Shock-Absorber (optional)
- 22 Storage Supporting Wheels
- 23 Statutory Plates / VIN Placard & Tire Placard
- 25 Detachable Wall Hinges
- 26 Fender
- 27 Safety Breakage Chain
- 28 Folding Handle
- 29 Wall Secure Chain



1.3 Parts List Overview



1.4 Safety Information

Throughout this manual are many instructions to ensure your's and other's safety while you are using your trailer. Be careful to read all safety information to prevent damage and dangers, when handling or using your FoldTrailer FT752.

Towing a trailer gives the driver typical challenges like increased acceleration time, increased braking distance, turning and reverse maneuvering, and certainly also safe loading responsibility. Loss of control of the trailer or tow vehicle can result into damage or serious injury.

The most common causes for loss of control of the trailer are:

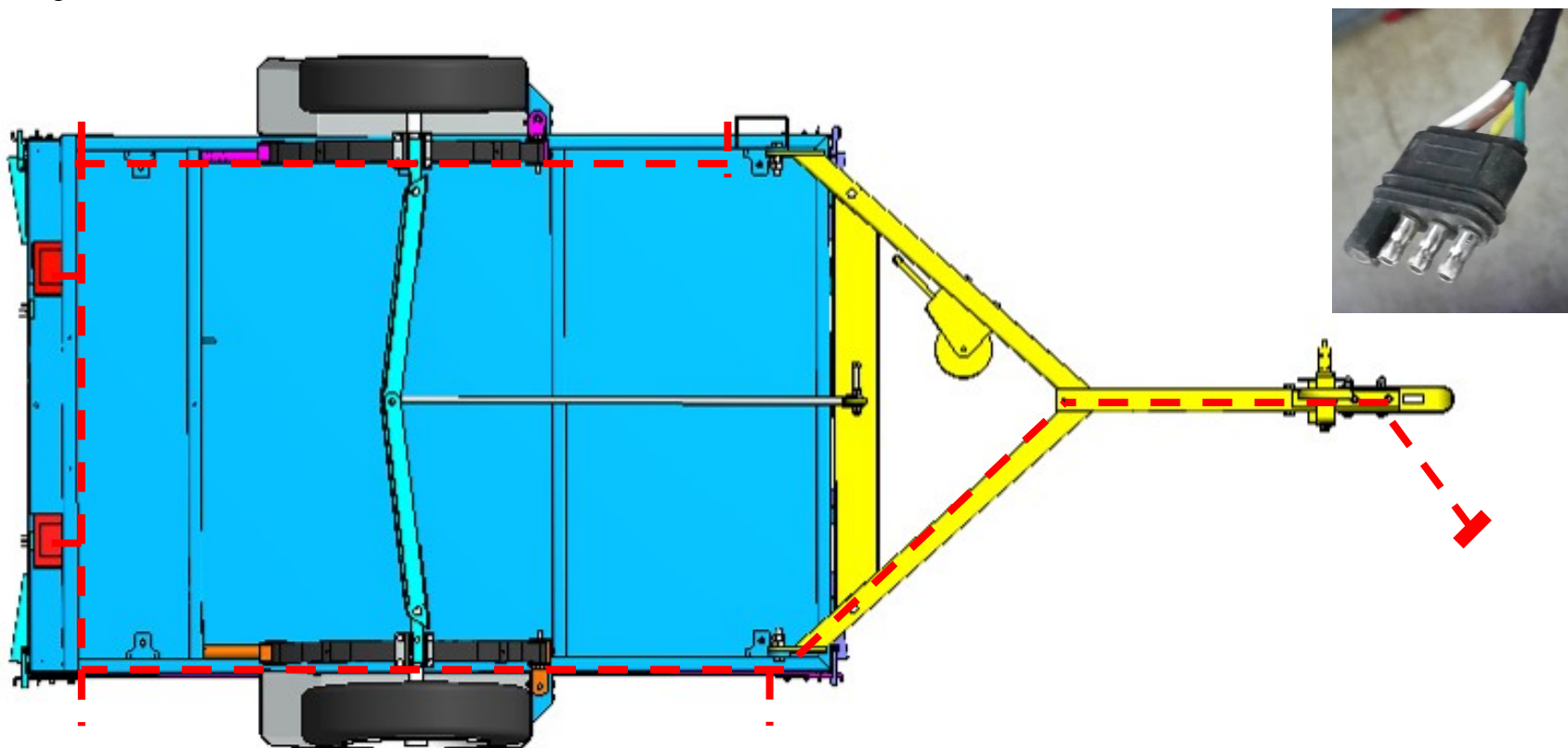
- Driving too fast for the conditions.
- Overloading the trailer.
- Loading the trailer unevenly.
- Trailer improperly coupled to the hitch.
- Inadequate towing vehicle.
- Inadequate towing hitch.
- Not maintaining proper tire pressure.
- Not keeping wheel nuts tight.
- Not properly maintaining the trailer structure and its running gears.

Since your FoldTrailer FT752 is a folding trailer developed for smart and space saving storage, there are even more safety details which require your attention, for safe use of your trailer. These points are mentioned specifically in the Folding chapter (3) and Maintenance chapter (4). Please read these instructions carefully before starting handling the trailer.



1.5 Wiring Diagram

Your FoldTrailer FT 752 is equipped with DOT / SAE certified 12V electrical light system consisting of square tail lights at the rear beam, and amber front side marker and red rear side marker along the sides of the trailer. All lights are also in combination with reflex functions according to all requirements by the NHTSA. The drawbar is equipped with a four pole standard electric coupler to attach the trailer lighting system to the towing vehicle's electric system. Before driving always check the function of the lights and that there are no damages to any of the lights, reflexes or cables.



1.6 Identification

1.6.1 Your FoldTrailer FT 752 has a VIN chassis number label at the front of the trailer platform with loading information. The 17 digit VIN is also hard stamped into the chassis covered by the badge.



2 TOWING

As the towing vehicle may be used any car equipped with a certified towbar coupling. The total weight of the trailer and cargo MUST NOT exceed the rate given by the vehicle manufacturer. All use of the trailer require attention to gross weight, payload, coupling weights, load positioning and secure of cargo. In most countries and regions a trailer type category O1 like FoldTrailer FT752 can be towed by any driver having a valid license for passenger cars (Drivings license category B) as a minimum. Anyhow, be aware of possible variations in local legislation.

2.1 Pre-tow Check List

- Inspect the trailer for any structural failure; drawbar, frame, walls, suspension
- Inspect all bolts and fasteners that apply to your trailer
- Inspect the condition of the wheels; tire pressure (90 psi) and tighten the wheel nuts properly (90Nm)
- Coupler to be secured and locked
- Safety Breakage Chain properly rigged to tow vehicle, not to hitch ball only
- Make sure that the nose wheel is adjusted to its driving position
- Test of lights: Tail, Stop, Turn and Backup. Connect electric system to the car and provide testing
- Cargo properly loaded, balanced and tied down with a proper proportion of the weight on the tongue of the trailer
- Walls closed and latched. There is an option to secure the wall latches with a splinter pin
- Check that drawbar is latched to the trailer frame by both drawbar latches to be tightened properly with eye nuts
- Provide compactness check of the suspension by trying to move the trailer back and forth sideways by holding the wheel. An appearance of major slack might have its origin in both wheel bearings and the pre-tension tightening of the suspension system. If you suspect any such problem, contact your trailer dealer for advice or assistance
- Tighten the winch wire slightly before driving, the wire resting onto the bolt tube of the locking device front end



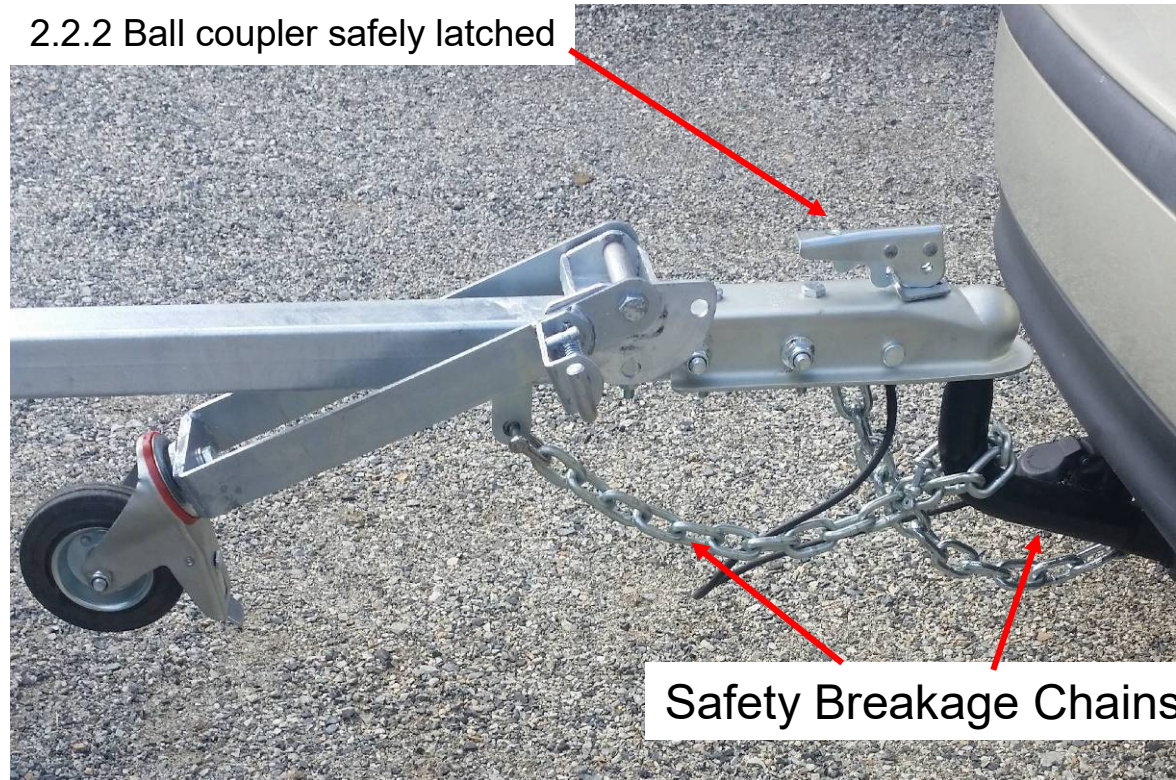
2.2 Tow Coupling

The ball coupler MUST be properly secured to the hitch ball of the towing vehicle. After assembly and attachment, pull up and down on the ball coupler to make sure the hitch ball is fitting snugly on the hitch ball. No gap is allowed between the coupler and the ball of the towbar. Arrange one safety chain around the car's towbar hitch and another into a ring or similar part of the towing vehicle, if the towbar is equipped with such for this specific purpose. Inspect your coupler, safety breakage chain and nose wheel to make sure these are in proper working condition. The nose wheel must point backwards when towing.

2.2.1 Ball coupler open



2.2.2 Ball coupler safely latched



2.3 Loading

- 2.3.1 Coupling weight means the load on the car's towbar ball when a loaded trailer is connected to the car. The coupling weight must not exceed the allowed weight given on the manufacturers VIN number plate situated at the front of the trailer chassis
- 2.3.2 Always check that cargo is properly positioned onto the trailer cargo platform. The coupling weight must not be negative, means the trailer is elevating the car towbar, because of improperly positioned cargo. Too much coupling weight or negative coupling weight can change the driving conditions of the tow vehicle and cause danger.
- 2.3.3 **Never overload the trailer.** Maximum allowed weight for the trailer is given on the manufacturers VIN number plate situated at the front of the trailer chassis. Overloaded trailer may cause dangerous driving conditions and damage to the trailer and its wheels. Overload driving is not covered by the warranty. Note also that smaller tow vehicles may have lower allowed maximum weight for trailers than what is limited by the trailer itself. Check the car's towing registration before driving.
- 2.3.4 Secure the cargo properly to avoid cargo to fall off the trailer when towing, or cargo moving out of position resulting into changed driving conditions and danger. Stop after a few miles and retighten straps and ropes if necessary. For securing cargo both the platform internal tie-down rings and the external tie-down "hat taps" can be utilized. Always use as many tie-down rings as possible. Make sure that ropes or straps or similar is not pressed against sharp metal borders or the like. Always use straps and ropes etc. which satisfy the claims for cargo load.
- 2.3.5 The trailer may be loaded also with long cargo. Light weight long cargo can rest onto the box walls during transport. In cases of heavy long cargo it is highly recommended to detach the front and rear walls, and fold down the side walls, to position the cargo centred directly onto the cargo platform. Be careful to place the cargo in such a way that the coupling don't get *negative* weight. Long packages may also be placed and secured along the trailer drawbar. Be careful not to provide any damage of the winch, the coupler or the nose wheel system. Towing with long cargo requires special attention and rear end of long package must be marked properly. Note that you have to check local legislation for towing long cargo and allowed length of such load.
- 2.3.6 At bulk freight, such as firewoods, stones, sand/gravel, soil or garbage etc. use of net or tarp is recommended. Check your FoldTrailer dealer for additional equipment. Note that gravel, sand and soil has relative heavy weight and there is a rather small volume limit to avoid that the trailer are being overloaded.



3 Folding

3.1 Security Instruction

Your FoldTrailer FT752 can be folded *without* load and on *flat and solid floor only*. The trailer must be disconnected from the car when folding. Read this manual carefully before handling the trailer.

- 3.1.1 All folding handling of this FoldTrailer must always be accomplished by one adult person only. To prevent damage, make sure no children or pets or expensive equipment or cars or the like are around while handling the trailer.
- 3.1.2 Folding handling must be done without any load.
- 3.1.3 It is recommended to wear gloves during handling the trailer due to dirty parts and possible sharp steel profiles.
- 3.1.4 For security reasons it is highly recommended having one defined storage base for your FoldTrailer. Such storage base must have a flat and solid floor without obstacles for the nose wheel, and a stiff and solid wall to lean the trailer towards. It's recommended having an in-house storage base, or as a minimum a storage base with a roof.
- 3.1.5 The storage base wall has to be equipped with a fastened bracket for the wall secure chain belonging to the trailer. Extra bands or straps can be used additionally. Be aware that an unsecured folded trailer may fall off the wall and cause damage and danger if someone climbs or pulls the trailer.
- 3.1.6 All folding operations are managed along the right side of the chassis (left side when folded), close to the winch.
- 3.1.7 Before any folding or unfolding procedure is started, always make sure that all included parts of the suspension system, trailer chassis and the winching system, the wire condition included, is all right and fully functional. Any damage or missing parts can result into damage and danger. If any doubt contact your trailer dealer.
- 3.1.8 At freezing temperatures, make sure that no flexible parts of the trailer are stuck by frost and ice. Check the flexibility of any link or wheel or running gear before start folding or unfolding the trailer.
- 3.1.9 The trailer shall never be left unattended when it is only partly folded. If this still happens, always activate the nose wheel brake.
- 3.1.10 When partly folded into an **A-shape position**, the FoldTrailer can be pushed sideways and also even turned by lifting one rear corner by hand by holding the suspension rubber bumper bracket. Aware of sharp edges of the trailer or its mudguards. In such cases always make sure that the distance between the drawbar nose wheel and the trailer rear part at floor level is no shorter than 1 yard, and that the winch wire is kept continuously tensed. The nose wheel must be un-braked and into a adequate direction when doing this.
- 3.1.11 When the trailer is fully folded at its storage base, the nose wheel brake must be activated, and the wall secure chain must be hooked properly into the wall bracket ring.
- 3.1.12 Always read this Owner's Manual if you are uncertain of any handling details. Ask your FoldTrailer supplier if you are still having any handling requests.



3.2 Folding Procedure

This operation must always be done according to the security instruction (chapter 3.1). No cargo onto the trailer.

- 3.2.1 Open the wall latches. Use the L-wrench which is fixed to the trailer.
- 3.2.2 Fold out the front and the rear wall. Fold the side walls down and inwards when standing behind the trailer.
- 3.2.3 Open the two drawbar latches. Use an L-wrench or similar to enforce the eye nuts open. Unscrew by hand. Assemble the eye nuts onto their bolt housing at the drawbar not to loose the parts.
- 3.2.4 Adjust the nose wheel into storage position. This is done by pulling the spring latch open, meanwhile turning the nose wheel. Arrange the electric cable in order to avoid its shearing. Hang up the cable and the coupling safety breakage chains not to fall down and hinder the free movement of the nose wheel. Open the nose wheel brake.
- 3.2.5 Place the FoldTrailer with its rear part close to the wall. The rear end storage wheels are recommended to hit the floor/ground approximately 8 inches off the wall.
- 3.2.6 Detach first the front wall, then the rear wall. Fold down the side walls inwards. Connect the front and rear walls onto the hinge tubes which is part of the trailer chassis front section.
- 3.2.7 Start folding up the trailer by pulling the frame handle upwards, meanwhile starting winching. Turn the winch handle clockwise.
- 3.2.8 Continue winching until the trailer is fully folded against the wall.
- 3.2.9 Activate the nose wheel brake immediately and attach the secure chain onto its wall secure bracket ring.
- 3.2.10 Fold the winch handle by pulling the handle out, and bend it.
- 3.2.11 Take advantage of the folded position to inspect and lubricate the running gears, the suspension and the folding system.



3.2 Folding Procedure

3.2.1 Open wall latches



3.2.2 Fold out the front and rear wall



3.2 Folding Procedure

3.2.3 Open the drawbar latch by using a L-wrench tool or similar. Store the eye nuts safely on drawbar



3.2 Folding Procedure

3.2.4 Adjust the nose wheel

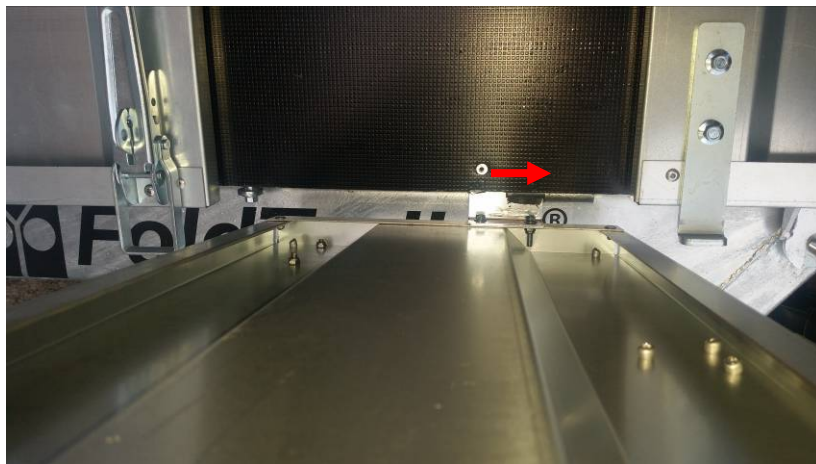
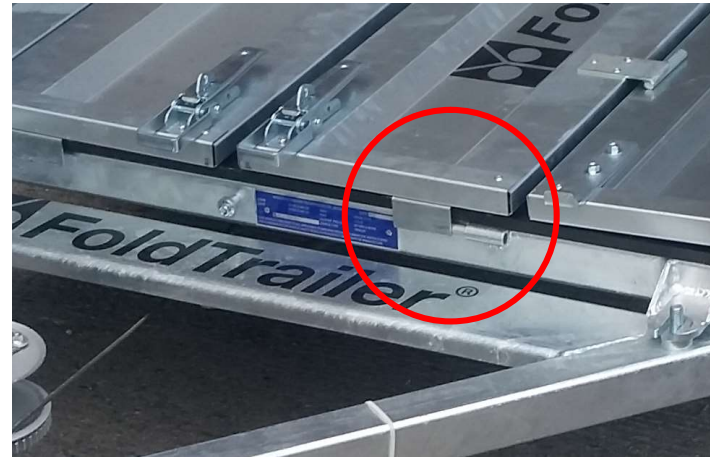


3.2.5 Position the trailer to the wall



3.2 Folding Procedure

3.2.6 Fold down the side walls and connect the front / rear walls into folding position



8 inch
from
wall



3.2 Folding Procedure

3.2.7 Start folding – Pull up by and handle and winch clockwise



3.2 Folding Procedure



3.2.8 Winching to wall



3.2 Folding Procedure



3.2.9 Brake Nose Wheel & Secure folded trailer to the wall



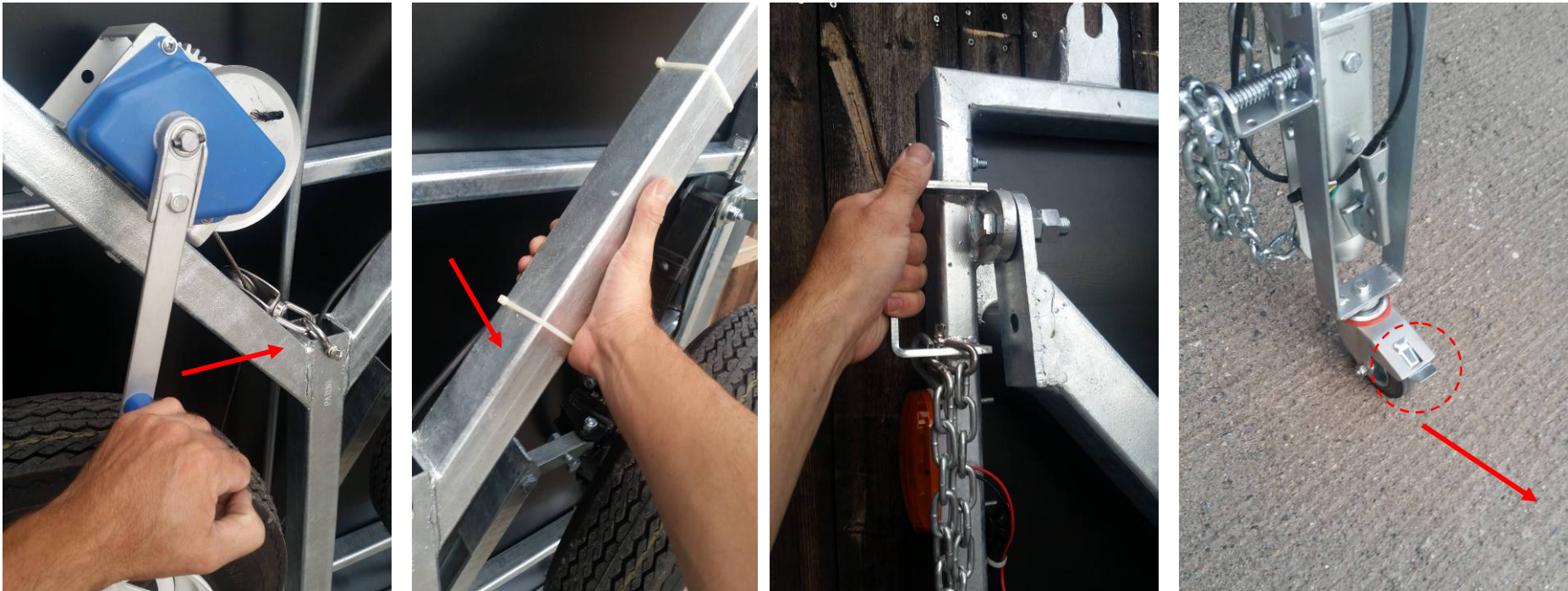
3.2 Folding Procedure



3.2.10 Fold in the winch handle



3.3 Unfolding Procedure



This operation must always be done according to the security instruction (chapter 3.1)

3.3.1 Fold out the winch handle

3.3.2 Detach the wall secure chain from its wall bracket.

3.3.3 Open the nose wheel brake.

3.3.4 Loosen the winching system by turning the winch handle contra clockwise several times.

3.3.5 Pull carefully out the drawbar off the wall approx. 1 yard, and make sure that the winch wire allows the drawbar to be pulled out. Pay attention to prevent the trailer not to fall over. Keep children and pets away!

3.3.6 Continue unfolding the trailer by turning the winch handle contra clockwise. Make sure that the nose wheel rotation has an adequate direction and no obstacles to roll.

3.3.7 When the trailer is fully folded out, latch the drawbar to the frame by tightening the two eye nuts by hand (ref. 3.2.4) Use the L-wrench or similar to enforce the eye nuts to be fastened. Avoid using much force. Tighten the winch wire slightly before driving, the wire resting onto the bolt tube of the locking device front end.

3.3.8 Elevate the side walls from folded position, and attach the rear and front walls onto their respective hinges. Tighten the wall latches.

3.3.9 Turn the nose wheel into parking position or driving position if immediate driving use.



4 Maintenance Guidelines

Like other vehicles your FoldTrailer FT752 needs some regular maintenance. The folding system of your trailer requires that all links and parts of the folding system have to be lubricated to obtain an optimal folding function and to increase the life time of your trailer. Lubricate your FoldTrailer according to instructions given in this Users Manual.

4.1 Cleaning

- 4.1.1 Cleaning generally increases the life time of the trailer. Water flushing is recommended after every use of the trailer. If the non-use intervals are long, or if the trailer has been towed on chemically-maintained or salted roads, it is required to rinse the trailer with water to avoid white corrosion and rust.
- 4.1.2 After cleaning and flushing of the trailer, always accomplish the instructions given in this manual. Wipe off lubrication mess with a paper or the like after lubrication. A clean trailer is easier to maintain and nicer to store in-house. Note that steaming by pressure washer might cause a too rough cleaning of winching system, wheel bearings, suspension system, lights, logo stickers, plywood and paint. Make sure you flush with an adequate distance to the cleaning object.

4.2 Lubrication

Lubrication of the trailer is required even if your trailer is not used frequently. Repeat lubrication instructions now and then also during a season when the trailer is stowed away for a longer period of time, because most lubrication dries out. It's highly recommended to unfold the trailer partly to accomplish a perfect cleaning and lubrication. Light fluid spray lubrication is preferred.



4.2 Lubrication



4.3 Inspection

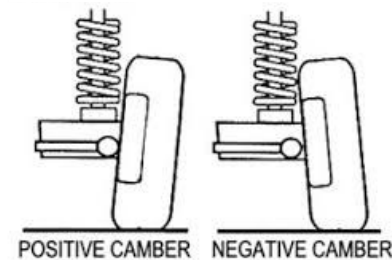
As other vehicles your FoldTrailer FT752 requires regular inspections. This is important both to obtain a safe use and a well working folding function, and to discover a possible technical problem before it is getting serious.

- 4.3.1 Fold up the trailer to an A-Shape position to check the conditions of wheels, running gears, suspension and folding system.
- 4.3.2 Rotate and twist / bend the wheels to check the status of wheel bearings. If you are not sure how this is done, ask your supplier.
- 4.3.3 Check the condition of all electric components. Damaged parts have to be replaced before towing. Open the light covers and spray with protective spray at least once a year.
- 4.3.4 Check the condition of the plywood cargo plate. Smaller surface damages or lack of paint can be repaired easily by paint or brown / transparent Tectyl or similar. Ask a paint dealer for adequate repair / protection advice. A plywood plate in good condition will be longer lasting and will also be a stronger plate. Keeping the trailer stored under roof or even using a plastic tarp covering the trailer if stored outdoors will be recommendable.
- 4.3.5 Your trailer's wheels has an original toe-in wheel set up and an positive camber angle when unloaded. At heavy cargo load this camber will turn over to be temporary slightly negative. Ask a technician if you are not familiar with wheel angles.
- 4.3.6 Check that the locking nuts of the suspension's adjustment bolts are always tightened. However, you are not allowed to adjust the related bolts at all, if you do not know exactly how suspension adjustment is done. Bolt adjustment of the suspension system is done by authorized personnel only.

4.3.1 A-Shape Position



4.3.5 Camber angles



4.4 Service

Service for your FoldTrailer FT752 is defined as operations which require cuning personnel, like your trailer dealer or authorized vehicle-mechanical staff. Generally are all parts of this trailer replaceable. This, together with a careful maintenance and proper use can give your trailer a long life.

The folding system of this trailer is based on a principle that all suspension parts are flexible until the drawbar is being folded out and latched. Then the entire suspension system becomes sideways stable under a pre-tension phase. This pre-tension is making the trailer suspension compact, resulting into excellent driving conditions and good loading capacity. Although it requires all related parts to be in good condition, clean, lubricated etc. to obtain the required flexibility for the folding. It also requires the suspension adjusting bolts to be correctly installed with correct *camber angles* of the wheels and correct pre-tension moment. ***Especially the lower axle adjusting bolts may have to be tightened after first time of heavy loading to maintain a positive wheel camber and suspension compactness.***

We list up below repair and service operations which are only for cuning personnel to accomplish:

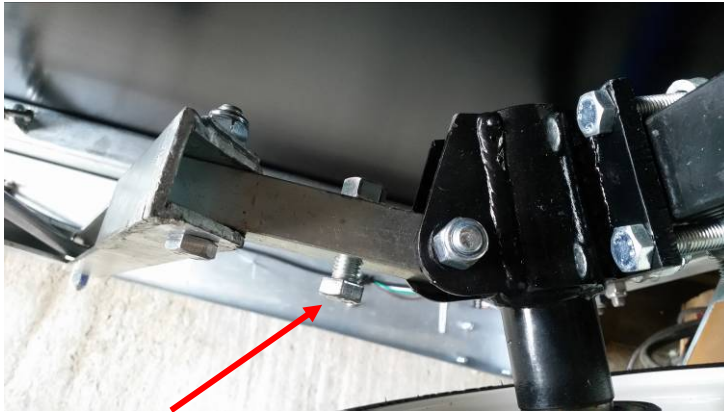
4.4.1 Replacement of parts of the suspension, frame structure and folding system.

4.4.2 Replacement of wheel bearings (recommended at every 6000 miles)

4.4.3 Replacement of trailer coupling

4.4.4 / 4.4.5 Adjustment and replacement of suspension adjusting bolts (15 Nm bolt tension)

4.4.6 Installation and reinstallation of link axle and hinged drawbar. All nuts tightened,



4.4.4 Lower suspension adjusting bolts



4.4.5 Upper suspension adjusting bolts



NHTSA Notification Statement

If you believe that your vehicle has a defect that could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying ABC Manufacturing Inc.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Foldtrailer Ltd.

To contact NHTSA, you may either call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153), go to <http://www.safercar.gov>; or write to:

*Administrator
NHTSA
1200 New Jersey Avenue SE
Washington, DC 20590*

You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>