

User manual



STRETCHER CARRIER F2

This user manual contains general information about use, handling and maintenance of the stretcher carrier. The manual contains all necessary instructions for proper use of the product. Safety and appropriate use of the equipment depend on precautions taken by the user. Safety information are made available to the user. All other safety measures taken by the user must be made in consideration of safety regulations applicable to this type of equipment. It is essential to be properly trained with the equipment before use in real-life situations.

Keep this manual for future reference. Provide it to new users. Copies of the manual are available from the Customer Service of your Ferno equipment dealer.

Disclaimer

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Additional instructions for the system F2:

Manual for the stretcher carrier F2

Additional manual for installation F1 – F2

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1. Safety instructions

1.1 Precautions

These precautions indicate potentially dangerous situations which, if not avoided, may cause serious injury or death.

- Staff not trained in handling the equipment may cause or suffer injury. The equipment may only be used by staff trained in its use.
- Improper use of the equipment may cause injury. Use it only for the designated purpose.
- Improper use of the equipment may cause injury. Handle it in line with instructions contained in this manual.
- An unsupervised patient may suffer injury. Make sure to supervise the patient at all times.
- An improperly strapped patient may fall from the stretcher and suffer injury. Follow instructions contained in this manual to ensure safe handling of the patient.
- Stretcher improperly mounted on the stretcher carrier may detach and cause injury. Make sure to properly secure the stretcher and check that the hooks are properly locked.
- Improperly locked supporting bars may cause injury. Before unloading of the stretcher carrier from the ambulance, make sure that both supporting bars are straight and locked.
- Medical staff may suffer injury or cause injury. Regularly perform maintenance of the stretcher carrier and necessary checks.

Medical staff may suffer injury or cause injury. Show them location of handles to avoid pinching.

- Improper maintenance may cause injury. Perform only maintenance described in this manual.
- Attachment of unsuitable accessories to the stretcher carrier may cause injury. Use only accessories from your Ferno dealer.
- Use of unsuitable spare parts and improper maintenance may cause injury. Use only spare parts supplied by Ferno. Maintenance may be performed only by persons whose qualification was authorized by Ferno. Any modification of the stretcher carrier may cause injury. Read this manual and follow all instructions provided by your Ferno dealer.

1.2 Important point

Important points emphasize key instructions for use of the equipment and maintenance information.



CAUTION

1.3 Note on blood-borne diseases

In order to reduce the risk of exposure to viral infections such as AIDS and hepatitis while handling the stretcher, follow the disinfection and cleaning instructions contained in this manual.

1.4 Compatibility of stretcher carrier components

Combination of components supplied by different manufacturers for the same emergency equipment increases the risk of accident and injury.

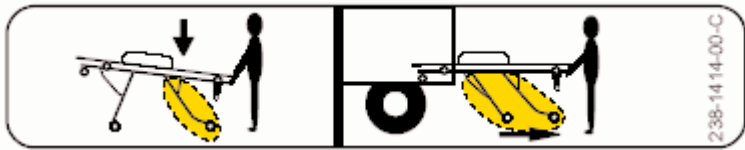
Ferno-Washington, Inc. recommends using exclusively Ferno components for equipment manufactured by Ferno. Only Ferno stretcher should be mounted on Ferno stretcher carrier and only Ferno stretcher carrier should carry Ferno stretcher in an ambulance.

A stretcher carrier that was not manufactured by Ferno carrying stretcher Ferno as well as stretcher carrier Ferno carrying a stretcher that was not manufactured by Ferno is forbidden.

User engaging in such use, whether deliberately or not, shall be responsible for consequences of such actions.

1.5 Instruction and safety labels

Instruction and safety labels are located on the stretcher carrier. Read them and follow instructions shown on these labels. Immediately replace worn or damaged labels. New labels are available from your Ferno dealer. The following labels are attached to the stretcher carrier:



Control handles of stretcher carrier
(Operator’s position)



Maximum permissible load of the equipment



Points with the risk of pinching (4)

2 – Training and skills of the medical staff



Staff not trained in handling the equipment may cause or suffer injury. The equipment may only be used by staff trained in its use.

2.1 Skills

Staff using the stretcher carrier needs:

- knowledge and abilities of professional emergency
- capacity to assist a patient in care
- good understanding of procedures described in this manual.

2.2 Training

Staff being trained must do the following:

- follow the training programme
- read this user manual
- contact Ferno to obtain additional user manuals
- learn to handle the stretcher carrier before real-life use
- be tested from knowledge about the stretcher carrier
- complete the training log – a copy is available on page 22.

3 – Technical specifications of the stretcher carrier

3.1 Description

Stretcher carrier F2 (manual reference) is equipment for emergency transport of patients. This professional equipment must be handled by two properly trained operators. The equipment belongs to Ferno production range that consists of the following transport equipment:

- Stretcher carrier F2
- Stretcher F2
- Locking system F1/F2

Stretcher carrier has the following specifications:

- one configuration “bed” and one configuration “folded”.
- anodized aluminium treatment to avoid hands and clothing becoming dirty
- Reflective stickers.
- 4 systems of stretcher locking
- loading end: two wheels of 200 mm diameter equipped with brakes
- operator’s end: two wheels of 200 mm diameter; each wheel keeps its direction

3.2 Specifications

Height*

Configuration “bed” 78cm

Loading height **56 cm**

Configuration “folded” 25 cm

Length **191 cm**

Width **56 cm**

Maximum permissible load. **250 kg**

**** Weight** **27,50 kg**

Note that the values provided are rounded to the nearest whole number. Contact your Ferno dealer for more information. Ferno reserves the right to change the specifications of the equipment.

* Height of the “bed” configuration is measured from the ground to the frame of stretcher on the carrier. Loading height is the distance from ground to the bottom of guiding wheels

** Without stretcher and accessories

CAUTION

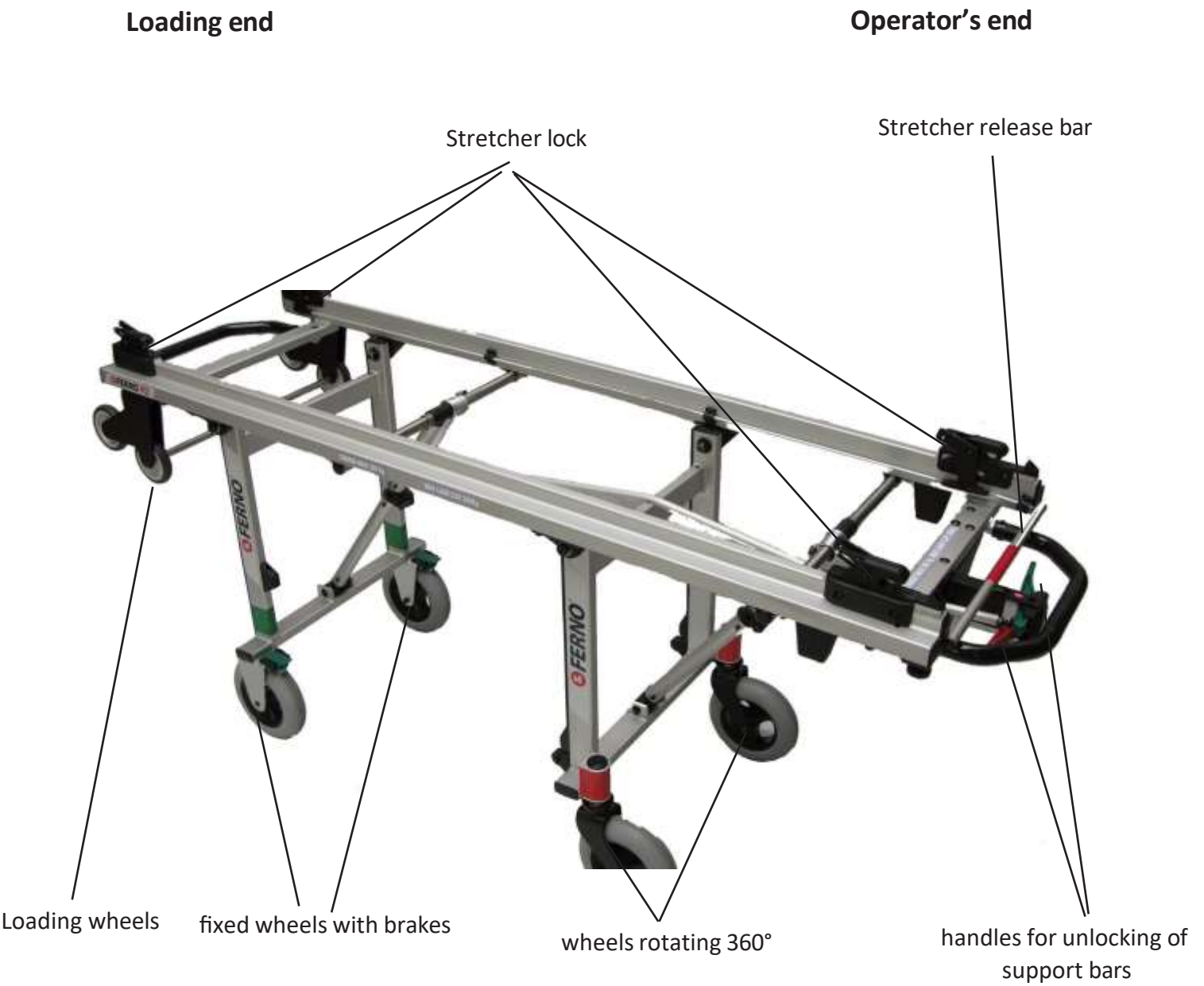
Improper use of the equipment may cause injury. Use it only for the designated purpose.



Maximum permissible load

3.3 Components of stretcher carrier:

Figure 1: Components of stretcher carrier:



To obtain user manuals for accessories, contact your Ferno dealer
or visit the website:
www.ferno.com

Figure 2 : Stretcher carrier configuration

Position 1 : Configuration “bed” for moving



Configuration 2 : Folded



Configuration “bed”	78 cm
Loading height :	56 cm
Configuration folded	25 cm

4 – Using controls of stretcher carrier

4.1 Control handles of stretcher carrier

Control handles are located at the rear of the stretcher carrier. They are accessible to the operator as shown on illustrations.

Use red and green control handle to unlock supporting bars when loading the stretcher carrier.

See section “Instruction for use of stretcher carrier” for more information.



Figure 3 : Control handles (Operator’s end)

4.2 Blocking of wheels

Front wheels are equipped with brakes. Push the green lever with your foot and the wheel is blocked.

Keep close to the stretcher carrier and keep it under control. Block wheels only for the designated purpose (Figure 4).

Never leave the stretcher with a patient unattended.

Figure 4 : Blocking of wheels



5 – Instructions for use of stretcher carrier

5.1 Before operation

- Read this user manual as well as user manual for stretcher that may be used with the stretcher carrier.
- Medical staff working with stretcher must be trained. See section "Training and skills of the medical staff" on page 7.
- Make sure that stretcher carrier is in good condition. Follow instructions from section "Preventative maintenance of stretcher carrier" on page 19.

5.2 General instructions

- At least two persons trained in its handling are necessary to use stretcher carrier.
- Operators must cooperate. It requires good communication and good coordination of their movements.
- Medical staff working with heavy load (patient and equipment) may require assistance. Refer to section "Additional information" on page 17
- Follow emergency service procedures when using the stretcher carrier.
- Never leave the patient unattended.
- Always strap the patient to the stretcher properly.
- When unloading the stretcher carrier from the ambulance, make sure that supporting bars are properly locked before releasing the stretcher carrier.
- Refer to user manuals for stretcher carrier and stretcher for more information about use of these products.



- Improper use of the equipment may cause injury. Handle it in line with instructions contained in this manual.
- An unforeseen event may happen. Never leave the patient unattended.
- Improperly strapped patient may fall from the stretcher carrier and suffer injury. Follow instructions in this manual to handle the patient with maximum safety.

5.3 Mounting stretcher on stretcher carrier

Stretcher may be mounted on stretcher carrier in two directions: head towards front or rear. Stretcher is mounted on stretcher carrier when hooks under stretcher lock (see Figure 5).

Mounting stretcher on stretcher carrier

- 1. Block wheels of stretcher carrier to avoid movement.
- 2. Operators (2 persons) must place stretcher on the rear end of stretcher carrier (see Figure 5) and also place stretcher hooks into locks of stretcher carrier.
- 3. Operators (2 persons) must now slide stretcher using wheels along stretcher carrier until hooks are locked.

Note: Second operator at the rear end may hold stretcher carrier’s frame and assist the operator at the other end lock the hooks.

- 4. First operator must check that stretchers are properly mounted by pulling them. Stretcher must remain on stretcher carrier.
- 5. Unblock wheels of stretcher carrier to enable movement.

Dismounting stretcher from stretcher carrier

- 1. Block wheels of stretcher carrier.
- 2. First operator must unlock stretcher using bar on stretcher carrier (see Figure 6) and both operators must slowly release stretcher from stretcher carrier by moving them backwards.
- 3. Both operators must lift stretcher together and remove them from stretcher carrier.

Figure 5: Mounting and dismounting stretcher



Figure 6: Dismounting stretcher from stretcher



Improperly mounted stretcher may detach from stretcher carrier and cause injury. Mount stretcher properly and check the lock.

5.4 Moving stretcher carrier

Instructions for use

- At least two operators are necessary for handling.
- If possible, move stretcher carrier on smooth and flat surface.
- Lift and carry stretcher carrier to get over an obstacle such as curb.

Moving stretcher carrier

1. Check that patient is properly strapped and wheels are unblocked.
2. First operator must stand at the rear end of stretcher carrier, hold the frame and push or pull the stretcher carrier.
(See Figure 7)
3. Second operator must stand at the other end of stretcher carrier, hold the frame, supervise the patient and assist the colleague to move the stretcher carrier.

Figure 7 : Moving mobile stretcher carrier



5.5 Loading stretcher carrier into ambulance

Two operators trained in its handling are necessary.
(Patient lying on stretcher carrier)

1. Operator 2: stay close to operator 1 and be ready to assist if necessary.
2. Operator 1: load stretcher carrier and stretcher into ambulance so that the guiding wheels are placed on ambulance loading platform and front supporting bar leans against the loading platform.
3. Operator 1: Unlock front supporting bar using green handle and continue the manoeuvre by pushing stretcher carrier with stretcher forward until rear supporting bar leans against loading platform. Rear supporting bar is locked which is a safe position.
4. Operator 1. Unlock rear supporting bar using red handle. Finish loading.
5. Operators 1 and 2: Check that stretcher carrier with stretcher is properly fixed in the ambulance in the locking system (Lock Ferno F1 – F2)

Figure 8: Loading stretcher carrier



5.6 Unloading stretcher carrier from ambulance

Two operators trained in its handling are necessary.

(Patient lying on stretcher carrier)

Stretcher carrier F2 features two independent supporting bars that unlock automatically.

Green and red control handle must not be used when unloading.

1. Operator 2: stay close to operator 1 and be ready to assist if necessary.
2. Operator 1: Release stretcher carrier from the lock.
(See user manual for the locking system).
3. Operator 1: Hold stretcher carrier's frame with both hands (palms up) and start to pull stretcher carrier with stretcher backwards, out of the ambulance.
4. Operators 1 and 2: Make sure there is enough room for rear supporting bar to let it open completely and lock.
5. Operator 1: Hold stretcher carrier's frame high enough above ground to let it open completely.
If the supporting bar is on solid ground and locked, you are in safe position.
6. Operator 1: Continue the manoeuvre and let the front supporting bar open completely and lock. Ensure that the loading platform is high enough above ground to let the front supporting bar open completely. Leave guiding wheels of stretcher carrier on the loading platform.
7. Operators 1 and 2: Make sure that stretcher carrier with stretcher does not move backwards and check if the front supporting bar is properly locked.
8. Operator 1: Continue the manoeuvre. Stretcher carrier with stretcher now stands on 4 wheels. Move it away from the vehicle.

Figure 9: Unloading stretcher carrier



5.7 Additional information

Handling stretcher carrier with lying patient requires at least two persons trained for use of this equipment. Work with heavy load (stretcher, patient and other accessories) may require additional assistance. Medical staff must have the stretcher carrier under control at all times during use.



Maximum permissible load of stretcher carrier

Caution

Operators may cause or suffer injury. Regularly perform maintenance of stretcher and stretcher carrier and necessary checks.

Caution

Operators may cause or suffer injury.
Show them location of handles to avoid pinching.

6. Maintenance

6.1 Maintenance planning

The stretcher carrier requires regular maintenance. Follow the maintenance schedule. Maintenance log can be found on page 24. The table on the right shows minimum required maintenance intervals. Use detergents following instructions of the producer and read the safety data sheets. Recommended detergents can be purchased from your Ferno dealer. (See page 20)

6.2 Disinfection and cleaning of stretcher carrier

To disinfect: Wipe all surfaces with disinfectant following the producer’s instructions. Ferno recommends you to check the stretcher carrier and detect possible damage.

To clean: Wash all parts of the stretcher with warm water mixed with neutral detergent. Use brush to remove stains. Do not use wire brush. Dry with a cloth and let the stretcher carrier dry.

Minimum maintenance intervals	After every use	as necessary	every month
Disinfect	●		
Clean		●	
Check		●	●



Improper maintenance may cause injury. Perform only maintenance described in this manual.

Important:
Disinfectants and detergents containing chlorine, phenol compounds or iodide may cause damage. Clean and disinfect the equipment using only products that do not contain these chemical substances.

Important:
High pressure water enters joints removing the lubricant and possibly causing corrosion. Do not use pressure washers or steamers.

Important:
Use of abrasive detergents may damage the stretcher carrier. Follow maintenance instructions in this manual.

6.3 Preventative maintenance of stretcher carrier

Let your maintenance staff check the stretcher carrier. Follow the list of points to be checked on the right and check the stretcher carrier by points in the list.

If the check reveals damage or excessive wear, do not use the stretcher until repaired. See section “Spare parts”.

List of points to check

- Are any components missing?
- Is the stretcher carrier excessively worn?
- Are screws, nuts, bolts, rivets and pins properly fixed?
- Do all moving parts function correctly without grinding?
- Is stretcher properly mounted on the stretcher carrier?
- Does stretcher carrier move without grinding?
- Is ambulance equipped to transport stretcher carrier with stretcher?
- Is locking system supplied by Ferno properly installed?

7 – Accessories

Ferno offers a complete range of medical emergency accessories (straps, infusion holders, blankets, etc.). Always follow instructions provided with these accessories. Keep instructions contained in this manual. Take into account all technical specifications (component size modifications, door width, etc.) when using the equipment and accessories.

8 – Spare parts

Contact your Ferno dealer to order spare parts. The dealer is the only representative authorized by Ferno to inspect, maintain and repair the products supplied by Ferno.



- Improper installation of stretcher carrier components may cause injury.
Use only accessories supplied by your Ferno dealer.
- Use of spare parts not supplied by your Ferno dealer may cause injury.
Use only services and equipment supplied by Ferno.
- Any modification of the stretcher carrier may cause injury. Read this manual and follow instructions provided by your Ferno dealer.

10. Customer service:

The customer and after-sale service constitute an integral part of every piece of equipment supplied by Ferno. For more information, contact your dealer or customer service:

Phone: +421 32 7708010

Fax: +421 32 7708011

Website: www.fernosk.sk

Make sure to have at your disposal the serial number of your Ferno stretcher if you contact customer service and quote it in all correspondence.

Training log

[illegible]

Maintenance log

[illegible]