



COMPACT CARRY CHAIR

MODELS INCLUDE:

COMPACT 1 CARRY CHAIR
COMPACT 1-S CARRY CHAIR
COMPACT 1-S CARRY CHAIR
(with Height Adjustable Handle)
COMPACT 2 CARRY CHAIR



Compact 1 Carry Chair



Compact 1-S Carry Chair



Compact 2 Carry Chair



Users' Manual

FERNO/MAN/10/18/104-R04/UK
Stock Code 2003-0006

Read this Manual and Retain for Future Reference



Ferno Technical Support

Customer Service and product support are important aspects of each Ferno product. Please have the product serial number available when calling, and include it in all written communications. For technical support questions:

Service Telephone	+44 (0) 1274 854511
Service Fax	+44 (0) 1274 855511
Email	sales@ferno.co.uk

Ferno Customer Service

For ordering assistance or general information:

FERNO UK

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Fax	+44 (0) 1274 851111
Internet	www.ferno.co.uk

USA HEADQUARTERS

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The Serial Number identification labels are displayed in different locations dependant of the model of your chair. The serial number can be located on either if the bars as displayed above.

Chair Serial Number: _____



USERS' MANUAL

To request additional free users' manuals, contact Ferno UK Customer Service, your Ferno distributor, or visit www.ferno.co.uk.

Disclaimer

This manual contains general instructions for the use, operation and care of this product. The instructions are not all-inclusive. Safe and proper use of this product is solely at the discretion of the user. Safety information is included as a service to the user. All other safety measures taken by the user should be within and under consideration of applicable regulations. It is recommended that training on the proper use of this product be provided before using this product in service.

Retain this manual for future reference. Include it with the product in the event of transfer to new users. Additional free copies are available upon request from Ferno Customer Service.

Proprietary Notice

The information disclosed in this manual is the property of Ferno UK. Ferno UK reserves all patent rights, proprietary design rights, manufacturing rights, reproduction use rights, and sales use rights thereto, and to any article disclosed therein except to the extent those rights are expressly granted to others or where not applicable to supplier proprietary parts.

Limited Warranty Statement

The products sold by Ferno UK are covered by a limited warranty. The complete terms and conditions of the limited warranty, and the limitations of liability and disclaimers, are also available upon request by calling Ferno UK on +44 (0) 1274 851999.

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1 - SAFETY INFORMATION

1.1 Warning

Warning notices indicate a potentially hazardous situation which, if not avoided, could result in injury or death.



WARNING

Improper use of the chair can cause injury. Use the chair only for the purpose described in this manual.

Untrained operators can cause injury or be injured. Permit only trained personnel to operate the chair.

Improper operation can cause injury. Operate the chair only as described in this manual.

An unattended patient can be injured. Stay with the patient at all times.

An unrestrained patient can fall off the chair and be injured. Use restraints to secure the patient on the chair.

Helpers can cause injury or be injured. Maintain control of the chair, whilst directing all helpers.

Improper maintenance can cause injury. Maintain the chair only as described in this manual.

Non Ferno parts and service can cause injury. Use only Ferno parts and Ferno approved service on the chair.

Modifying the chair can cause injury and damage. Use the chair only as designed by Ferno.

Attaching Non Ferno items to the chair can cause injury. Use only Ferno approved items on the chair.



WARNING

It is recommended NOT to carry occupant with the rear handle FULLY EXTENDED. (applies to Compact 1-S with height adjustable backrest only)

The upper handle is to be used for descending stairs only at the maximum extended position.

1.2 Important

Blood borne Disease Notice

To reduce the risk of exposure to blood borne diseases such as HIV-1 and hepatitis when using the chair, follow the disinfecting and cleaning instructions in this manual.

1.3 Caution

Bleach, phenols and iodine can cause damage. Do not apply products containing these chemicals to the Chair.

Improper lubricants can cause damage. Use a liquid lubricant oil such as "3-IN-ONE Multi-purpose drip oil" to lubricate the Chair where specified.

Trapping hazards are unavoidable in the design of this equipment due to its folding action. Operate the folding mechanism with care.

Trapping hazards are unavoidable in this design of chair due to its folding action, operate the folding mechanism with care.

1.4 Essential Requirements

Every three months lubricate the hinge pins with light oil paying particular attention to the cross section pins.

1.5 Safety and Instruction Labels

Safety and instruction labels place important information from the users' manual on the Chair.

Read and follow label instructions. Replace worn or damaged labels immediately. Replacement labels are available from Ferno UK.

1.6 Symbol Glossary

The symbols defined to the right are used on the Chair and/or in this users' manual. Ferno uses symbols recognised by the International Standards Organisation (ISO).



Do Not
Lubricate



Safe Working Load



The CE mark on this product demonstrates conformity with the requirements of the EC Directive 93/42/EEC for Medical Devices and support by an ISO 9001 Quality Management System.



WARNING

Do NOT exceed the safe working load of 200 kg

2 - OPERATOR SKILLS AND TRAINING

2.1 Intended Use

The Ferno Compact 1, Compact 1-S and Compact 2 Carrying Chairs are designed to aid the movement of a patient in a seated position by carrying. They should be used in circumstances where transfer devices such as trolleys or stretchers cannot be manoeuvred.

2.2 Skills

Minimum recommended skills are as follows:

- The strength, balance, coordination and common sense to safely operate the Chair.
- The ability to select the proper equipment and procedures for the circumstances.
- Operators should have operator certification (or equivalent).
- The ability to understand and follow the procedures described in this manual.

2.3 Operator Training

Minimum recommended skills are as follows:

- A training plan approved by an EMS training officer (or equivalent).
- Read and understand the instructions in this manual.
- Practice using the fully equipped Chair with weight and under simulated conditions.
- Trainees should be tested to verify their understanding of Chair Operation.
- Keep training records. Annual refresher training for all Chair operators is recommended.

2.4 Safety Precautions

To ensure safety and satisfaction with your new Carrying Chair, all users should read these instructions and the individual portions of recognised emergency care manuals that relate to the application and use of Carrying Chairs.



WARNING

Untrained operators can cause injury or be injured. Permit only trained personnel to operate the Chair.

Only qualified personnel trained in the use of the Carrying Chair should use it.

For safety purposes, it is essential that patients should always be secured with restraints.

Never leave a patient unattended.

Never exceed the maximum load capacity of 200 kg.

Establish regular inspection procedures and responsibilities to ensure proper maintenance as described.



WARNING

Improper use can cause injury and damage. Use only Ferno-approved parts and service.

3 - ABOUT THE CHAIR

3.1 General Specifications

Most general specifications below are rounded to the nearest whole number. For more information, contact Ferno Customer Service (page 2).

Ferno reserves the right to change specifications without notice.

Product	Dimensions	Imperial	Metric
Compact 1	Height		
	Open	76.7 in	935 mm
	Folded	66.1 in	765 mm
	Width		
	Overall	22.4 in	435 mm
	Depth		
	Open	34.7 in	430 mm
	Folded	9.25 in	235 mm
	Weight		
	Total Weight		9.1 kg
Compact 1-5	Height		
	Open	76.7 in	935 mm
	Folded	30.5 in	775 mm
	Width		
	Overall	17.5 in	445 mm
	Depth		
	Open	16.5 in	420 mm
	Folded	11.2 in	285 mm
	Weight		
	Total Weight		9.7 kg
Compact 2	Height		
	Open	76.7 in	935 mm
	Folded	30.5 in	775 mm
	Width		
	Overall	17.5 in	445 mm
	Depth		
	Open	16.5 in	420 mm
	Folded	11.2 in	285 mm
	Weight		
	Total Weight		9.7 kg
Construction Material			
Stainless Steel			

All dimensions are approximate

Operators must consider the weight of the patient and accessories when determining total load on the Chair

Safe Working Load:



3.2 Checking the Chair

The following checks are required each day before the use of the Carrying Chair:

1. Overall cleanliness of the Carrying Chair.
2. Check that there are no bent or damaged parts, missing fasteners, etc.
3. Check that the wheels rotate freely with no excess movement or damage.
4. Check that the Carrying Chair unfolds and locks securely in the seating position for normal use.
5. Check the upholstery for cracks, splits or any loose fabric or stitching, etc.
6. Check that the upholstery is correctly secured to the frame.

If in any doubt then contact a Service Engineer.

NOTE

Regular cleaning helps reduce the risk of transmitting disease and enables the equipment to function at its optimum.



WARNING

Improper use of the Chair can cause injury. Use the Chair only for the purpose described in this manual.

4 - OPERATIONAL FEATURES

4.1 Unfolding and folding the Chair

The Chair folds for shipping and stowage.

To unfold the chair;

Unfold by placing the Chair on the ground. With your foot on the Chair's foot-bar, lift the back up and rearward. Completely unfold by firmly pushing up the back until an audible click is heard.



1. Unbuckle the chest strap securing the chair and fold the chair out into the seated position

2. Once the chair is locked, move both of the Safety Rings down over the hinge bracket.

To Fold;

1. To fold the Chair, lift the Safety Rings up over each hinge bracket.
2. Pull the release catch in the centre and fold the Chair forwards.
3. The Restraints may be used to secure the Chair in the folded position.

4.2 Restraints

The Chair is equipped with two restraints for patient comfort. When using the Chair, the patient must be secured by the restraints. Assess patient condition to determine optimum strapping procedure.

4.3 Folding foot rest (Compact 1-S only)

The Compact 1-S has a folding footrest for convenience when a seated patient transfers to a standing position.

To fold the footrest, pull to release both plungers and twist to retain plungers in retracted position. Lift the footrest into the folded position.

To unfold the footrest, pull forwards and downwards and twist both plungers to release.

Ensure both sides are locked.



4 - OPERATIONAL FEATURES

4.4 Three position upper handle (Compact 1-S with Height Adjustable Backrest only)

The upper handle can be locked into one of three positions to allow for height variations of operator and patient.

The removable head pad can only be attached when the upper handle is in its second or third position.

To adjust the upper handle into the second or third position, pull the black release knob on the right hand side with right hand. Maintain grip while adjusting upper handle upwards with left hand. Release knob while still adjusting handle upwards until knob engages into required position.

To return the upper handle to the first position, remove head pad if affixed. Pull black release knob with right hand, maintaining grip, while lowering upper handle with left hand. Release knob and adjust handle until knob engages in its first position.

4.5 Removable Head Pad (Compact 1-S with Height Adjustable Backrest only)

The head pad can be attached to the chair when the upper handle is in the second or third position. The pad is designed to optimise patient comfort.

The head pad can be attached, using Velcro flaps, to the upper handle. Position pad with Velcro facing the rear of the chair then fold flaps back onto themselves around the metal frame.

4.6 Accessories

The Oxy-Clip

The Oxy Clip (Cylinder Holder) clips onto the front bar under the seat of the Chair.



Blankets

Blankets may be used with the Chair to enhance patient comfort, ensure they are kept clear of any moving parts.



Wall Bracket

The wall bracket is designed to hold the Compact 1,2 or 3 Carry Chair. This allows the chair to be stored safely ready for use.



Dust Cover

The dust cover is designed to be used with the Compact 1,2 and 3 Carry Chairs whilst situated on the wall bracket.



5 - OPERATING PROCEDURE

5.1 - General Principles

When moving patients, always inform them of what you are going to do.

Always follow good lifting procedures as specified in the current manual handling regulations and your appropriate training manual.

Medical advice is beyond the parameters of this manual. It is the user's responsibility to ensure safe practices for the patient and themselves.

Placement techniques, heavy patients, rough terrain or unusual circumstances may require more attendants.

Operators must take extra care precautions when operating the chair on uneven ground.

Extra precautions should be taken to prevent the chair from slipping in adverse, wet or icy weather conditions.

Stay with the patient at all times and always use the patient restraints provided.



WARNING

Before positioning the patient on the chair, always ensure the chair is fully unfolded and that the safety rings are up and over each hinge bracket.

5.2 - Placing the Patient

Use a recognised patient handling technique to place the patient on the Chair.



WARNING

In cases of cervical, spinal or some fracture injuries, use of the Chair for patient transfer is not recommended.

5.3 - Securing the Patient

After placement on the Chair, the patient should be secured to the Chair with the leg and chest restraints.



WARNING

Never leave the Chair unsupported with a patient on-board as the chair is designed to tilt back easily.

5.4 - Rolling the Patient and Chair

After placing the patient on the Chair and fastening the restraints, the attendants move to positions at the front and rear of the Chair.

For the Compact and the Compact 2 carry chairs, the rear attendant grasps the Chair frame, then tilts the patient/chair back until the weight is balanced on the Chair wheels. The Chair can then be rolled without lifting.

The Compact 1-S has two wheels affixed to the foot end frame. These assist with movement on level ground and mean that the chair can be used without tilting backwards. The operator at the foot end of the chair assists as required with obstacles like door frames or uneven surfaces. The lower handle can be used to overcome larger obstacles.

5.4 - Carrying the Patient and Chair

To carry the patient, the same "tilt/back and balance" procedure is used. The attendants grasp the front and rear carrying handles and lift simultaneously, using local recommended lifting guidelines.

6 - CARE OF THE COMPACT CHAIR

6.1 General

The Ferno Compact 1-S and Compact 2 Carrying Chair require scheduled maintenance to keep them working safely. Set up and follow a maintenance schedule.

When setting up your maintenance schedule, consider how the Chair will be used.

Will the Chair be exposed to extreme temperatures, or to salt, sand, mud, dust, etc.?

Will the Chair be heavily used?

Follow the maintenance schedule below as a minimum.



WARNING

Improper maintenance can cause injury and unpredictable operation. Maintain the Chair only as described in this manual.

6.2 Maintenance Schedule

When using a maintenance product, follow the manufacturer's directions and read the manufacturer's material safety data sheet.

Contact Ferno (UK) Ltd to order Ferno cleaners and disinfectants.

Keep Service and Maintenance records.

Use the convenient form at the back of this manual.

ESSENTIAL REQUIREMENTS

Every three months lubricate the hinge pins with light oil paying particular attention to the cross section pins.

INSPECTION CHECKLIST

- Are all components present?
- Is the Chair free of excessive wear?
- Are all screws, nuts, bolts, rivets, and roll pins securely in place?
- Do all moving parts operate smoothly and properly?
- Does the Chair lock properly into position?
- Are the safety rings present and intact?
- Does the Chair roll smoothly?
- Do the wheels have adequate tread?
- Are the restraints properly installed?
- Is restraint in good condition with no cuts or frayed edges?
- Are restraint buckles free of visible damage and do they operate properly?

6.3 Cleaning the Chair

Remove the restraints and place them in a mesh laundry bag. Machine wash them in cold water using the delicate cycle and a mild laundry detergent. Allow them to air dry.

Clean all other surfaces of the Chair with warm water and a mild detergent. (Use a brush if necessary).

Rinse it with warm water. Towel dry the Chair or allow it to air dry.

Wash the Chair by using a sponge and mild detergent soap mixed in warm water. For particularly grimy cases, especially if the chair has been in storage for a long period, it may be necessary to first wash the Chair with a solvent soaked cloth prior to using soap and water.

Once cleaned, dry the Chair with a soft towel paying particular attention to swivel and sliding joints.

NOTE

Do not use high pressure water or steam to clean the Chair, these methods remove lubricants.

6.4 Disinfecting the Chair

Wipe all surfaces of the Chair and restraints with disinfectant (see Page 3, Blood borne Disease Notice).

Follow the manufacturer's directions. As you wipe down the Chair, check it for damage and wear.



WARNING

High concentrations of bleach, phenols and iodine can cause damage.
Contact Ferno (UK) Ltd before use.
Normal levels of disinfecting fluids are acceptable.

7 - SERVICE, SUPPORT AND WARRANTY

7.1 UK Service Support

In the United Kingdom, to order parts or for professional Chair repair, contact Ferno UK. - the only agent authorised by Ferno to manage, service, and repair Ferno products.

Telephone	+44 (0)1274 851999
Service	+44 (0)1274 854511
Service Fax	+44 (0)1274 855511
Email	service@ferno.co.uk
Internet	www.ferno.co.uk

7.2 Worldwide

To order Ferno parts, and for professional Chair repair, contact your Ferno distributor. Your distributor is the only agent authorised by Ferno to manage, service, and repair Ferno products.



WARNING

Improper parts and service can cause injury. Use only Ferno parts and Ferno-approved service on the Chair.

7.3 Terms and Conditions

Standard terms and conditions apply to all sales. A copy is available upon request. These contain full details of warrant terms and do not limit the statutory rights of the customer.

7.4 Warranty and Service

Ferno's standard terms and conditions apply to all sales. A copy is available upon request.

These contain full details of warrant terms and do not limit the statutory rights of the customer.

For service, maintenance and any questions regarding this, or any other Ferno product, please contact our Service Team on +44 (0)1274 854511

7.5 Service Maintenance History

Date	Serviced By	Remarks

