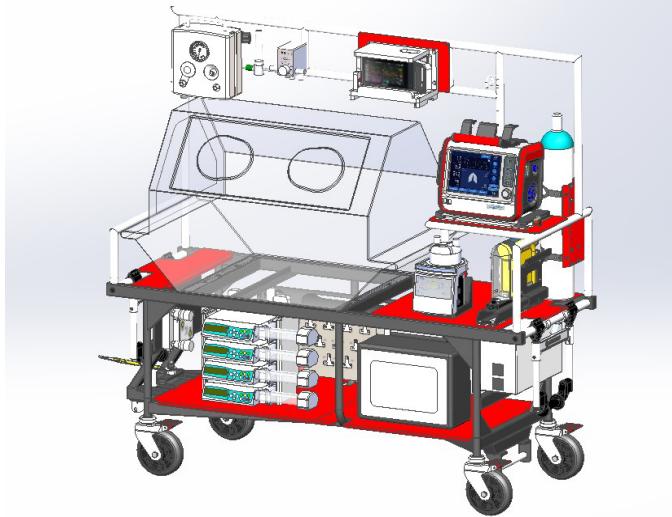
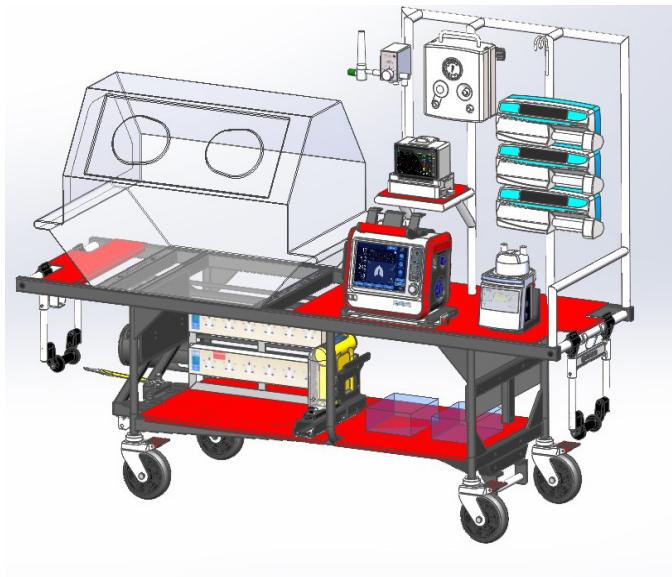




Ferno ITU-PX

Incubator Transporter Unit



* Drawings showing ITU-PX short and standard baseline units configured with various available options

FERNO®

Users' Manual

FERNO/MAN/1125/229-R1/UK
Stock Code 2003-0165

Read this Manual and Retain for Future Reference



Ferno UK Customer Services

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.

Manufactured by Ferno (UK) Ltd, Ferno House, Stubs Beck Lane, Cleckheaton, West Yorkshire, BD19 4TZ

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Internet	www.ferno.com

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 and local protocol. Training on the proper use of this product must be provided before using this product in an actual situation.

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 Customer Relations.

Proprietary Notice

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Limited Warranty Statement

The products sold by Ferno are covered by a limited warranty, which is printed on all Ferno invoices. The complete terms and conditions of the limited warranty, and the limitations of liability and disclaimers, are also available upon request by calling Ferno on +44 (0) 1274 851999 or +44 (0) 1274 854511



SERIAL Number _____

ITU-PX trolley serial number is marked on the manufacturer's plate, which includes the SWL, date of manufacture and CE mark. The manufacturer's plate is located on the lower frame of the trolley, below the backrest at the head-end.

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USER MANUALS

To request additional user manuals, contact Ferno Service Department, your Ferno distributor, or visit www.ferno.com/uk

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1 - SAFETY INFORMATION

1.1 - Warnings

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



WARNING

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

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

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

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

Helpers can cause injury or be injured. Maintain control of the trolley, operate the controls, and direct all helpers.

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

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

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

Attaching improper items to the trolley can cause injury. Use only Ferno-approved items on the trolley.

1.4 - Cautions

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

Improper lubricants can cause damage. Please refer to service manual for instructions.

Trapping hazards are unavoidable in any design of Trolley due to its folding action. Operate with care.



WARNING

Do NOT exceed the safe working load of the trolley

1.5 - Trolley and Lock Compatibility

Combining different manufacturers' products into a "mixed-component" trolley/fastener system can increase the user's risk of injury and damage if not checked first for compatibility.

However, Ferno trolleys are designed to be compatible with either the Ferno range of Two-Part locking devices or competitors equivalent locking devices, giving full compatibility and interchangeability across your vehicle fleet.



WARNING

To comply with EN 1789 the trolley MUST be secured in the vehicle with a 2-part locking device.

1.2 - Dangers

Danger notices indicate an immediate hazardous situation which, if not avoided, will result in injury or death.



DANGER

Electric shock can cause death or serious injury.
INSTALL/USE/OPERATE/MAINTAIN the trolley only as described in this manual.

1.3 - Important Notices

Important notices emphasise important usage or maintenance information. Failure to follow Important notices could result in damage to the product or property damage. Example:



WARNING

Blood-borne Disease Notice

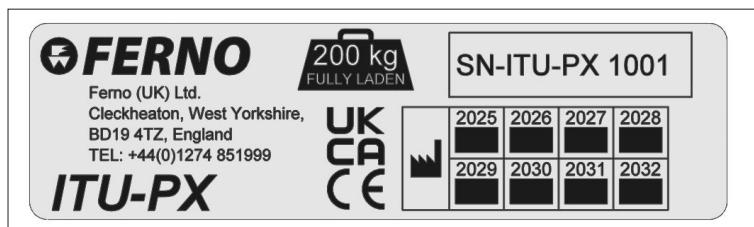
To reduce the risk of exposure to blood borne diseases such as HIV-1 and hepatitis when using the trolley, follow the disinfecting and cleaning instructions in this manual.

1 - SAFETY INFORMATION

1.6 - Safety and Instruction Labels

Safety and instruction labels place important information from the user manual on the trolley.

Read and follow label instructions. Replace worn or damaged labels immediately. New labels are available from your distributor.



Manufacturer's plate

1.7 - Symbol Glossary

The symbols defined below are used on the trolley and/or in this user manual. Ferno uses symbols recognised by the International Standards Organisation (ISO).



Product meets UK and EU Standards

2 - OPERATOR SKILLS AND TRAINING

2.1 - Skills

Operators using the Ferno ITU-PX trolley need:

- The strength, balance, coordination and common sense to safely operate the trolley
- The ability to select the proper equipment and procedures for the circumstances
- The ability to read, understand and follow the procedures as described in this manual
- To have full training on the proper operation of the trolley
- To have a working knowledge of manual handling procedures

2.2 - Training

Operator trainees need to:

- Have followed a training plan
- Read and understand the instructions in this manual
- Practice using the fully-equipped trolley with weight and under simulated conditions
- Trainees should be tested to verify their understanding of trolley operation
- Keep training records. Annual refresher training for all trolley operators is recommended

WARNING

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

WARNING

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

3 - ABOUT ITU-PX INCUBATOR TRANSPORTER TROLLEY

3.1 - ITU-PX Specification & Features

The Ferno ITU-PX is a incubator transport trolley specifically designed for the transfer of babies that need to be transported in an incubator and requiring a range of medical devices and equipment to be transported with the patient to monitor and clinically support the patient throughout the transfer.

The ITU-PX is designed such that the incubator and all medical equipment is securely fixed to the trolley, ensuring the safety of the both patient and medical staff when travelling in an ambulance.

For use on vehicles with a tail-lift or ramp, ITU-PX is compatible with Ferno's range of in-vehicle 2-part lock systems, ensuring the trolley is safely fixed to the vehicle floor.

Each trolley is bespoke-designed and individually built according to the specific incubator and equipment requirements that are required to be transported.

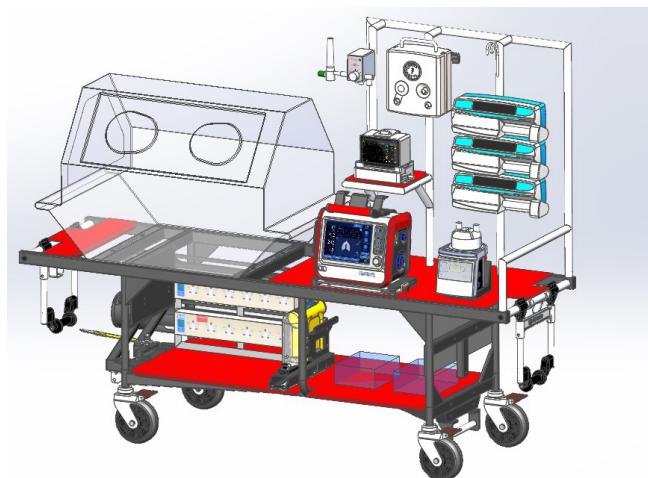
A range of features and options are available on ITU-PX, allowing the trolley to be configured to differing needs, all of which are covered within this user manual.

ITU-PX can be configured with the following features and options

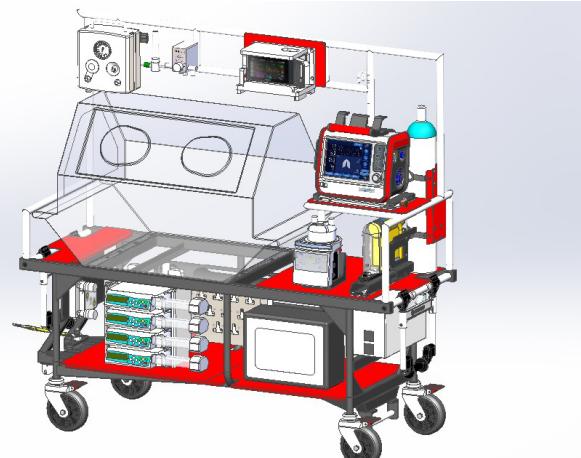
- Tow size of incubator trolley frame available according to incubator and amount of equipment required to be transported
- Fixed lower frame body with baseplate for attachment of a range of equipment and medical devices
- Optional vertical fixing poles to allow medical devices with pole clamp fixing interface to be attached, such as syringe drivers
- Option of HX, E size and/or CD size cylinder holders
- Fixing points on frame for the attachment of specified incubator
- Upper top-plate surface with capability of attachment of additional equipment, monitors and medical devices
- Additional upper frame option for attachment of further equipment, designed according to the equipment required to be attached/transported, including additional shelving
- Optional cabinet for storage of equipment
- Olson 12-gang Power Distribution Unit, other sizes also available
- Wheel brakes on all 4 wheels
- Push-pull manoeuvre handles at both ends of trolley
- MCF winch-link connection for assisted loading on ramps

Incubator models that ITU-PX can be designed to transport include:

- Draeger Isolette® TI500
- Draeger TI500 Globetrotter IC
- Possibility to accomodate other incubators. The two listed above can be fitted to the standard or short trolley with no modifications required



Dimensions	Standard	Short
Length	1830 mm	1440 mm
Width	570 mm	570 mm
Height	620 mm	620 mm
To incubator base frame	1200 mm (standard pole framework)	1200 mm
Wheels (Diameter)	6 in	150 mm



Standard	Short
Max SWL fully laden	200 kg
Trolley Weight (excluding equipment/incubator)	70 kg
	65 kg



MAX EQUIPMENT LOAD LIMIT
INCUBATOR + EQUIPMENT

4 - ITU-PX TROLLEY FEATURES

4.1 - Attachment of Equipment & Medical devices

The ITU-PX trolley is designed to allow equipment and medical devices to be safely attached to the trolley to ensure everything stays in place in all scenarios, throughout the patient journey. The following pages explains the various features and options.



4.2 - Pole-Clamp Vertical Fixing Poles

At the base of the trolley are vertical poles for attaching medical devices that have a pole-clamp bracket incorporated into their design, such as syringe drivers. Such equipment can be attached simply by holding the device bracket against the pole and then tighten the pole clamp fully. Once tightened recheck that the device is indeed correctly attached.

A number of specialist brackets for a range of medical devices are available from Ferno for attaching equipment via pole clamp.



Vertical poles for attachment of pole clamp devices



Pole clamp bracket for Medical Devices with 4-point fixing interface

4.3 - E Size Cylinder Holder Option

ITU-PX can be configured with cylinder holder tube(s) designed to hold E size cylinders, but also include an adapter to allow a CD cylinder to be held in the tube. To store cylinder in a holder tube, simply unfasten the top lid, place the cylinder inside the tube and lock the lid back on.



E size Cylinder holder tubes

4.4 - E Cylinder Holder with CD Adapter

When using the E cylinder holder tubes to hold a CD cylinder, the E-to-CD cylinder adapter kit needs to be first deployed. This consists of a tube foam insert and an alternative top lid adapter ring for holding the CD cylinder in place instead of an E cylinder.

First place the foam insert into the holder tubing and push it down as far as it will go. Then place the CD cylinder in the tube and attach the lid adapter ring, placing the ring over the top of the CD cylinder and then attaching the two wires that are attached to the ring to the sizes of E cylinder to the tube locking clasps, making sure one of the wires is fed through the CD cylinder handle and that the wires are tight. Use the supplied R clips to ensure the wires are securely held in place. The CD adapter kit will need removing if an E cylinder needs to be transported instead of CD cylinder.



CD cylinder in upper E holder using CD adapter kit



4 - ITU-PX TROLLEY FEATURES

4.4 - E Holder with CD Adapter (cont...)



CD cylinder in E cylinder held in place by top fixing ring and fixing wires attached to side of cylinder tube

4.5 - CD size cylinder holder Option

Also available as an option on ITU-PX is a dedicated CD cylinder holder, which can also hold a Nitric cylinder, which is mounted to the trolley, position dependant on other equipment that is to be used/mounted.



CD size Cylinder holder mounted to ITU-PX baseplate

To place a CD cylinder in the holder, loosen the 2 rubberised straps, place the cylinder inside the holder.

Then tighten the straps and fix them by pushing the fixing pin through the applicable hole in the strap (same principle as a belt buckle)

It is important that the straps are fully tightened at all times when a cylinder is located in the holder.

To remove the cylinder, loosen the holder straps and then remove the cylinder from the holder.



WARNING

Ensure that grease never comes in contact with O2 cylinder or cylinder holder due to the potential explosive risk that oil with oxygen under pressure can pose, in the (unlikely) event of an incident and the O2 cylinder getting ruptured.

4.6 - Storage Cabinet Option

Also available as an option on ITU-PX is a locking cabinet, mounted onto the end of trolley at foot-end, allowing medical items, documents and personal possessions etc. to be safely stored on the trolley whilst it is being transported. A set of keys is supplied with the cabinet.

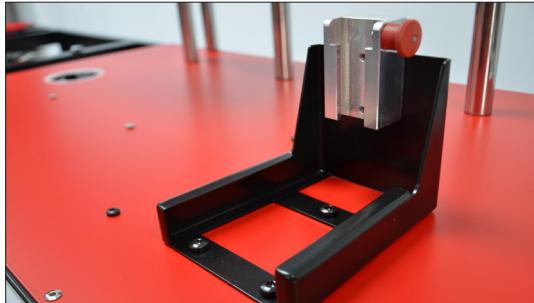
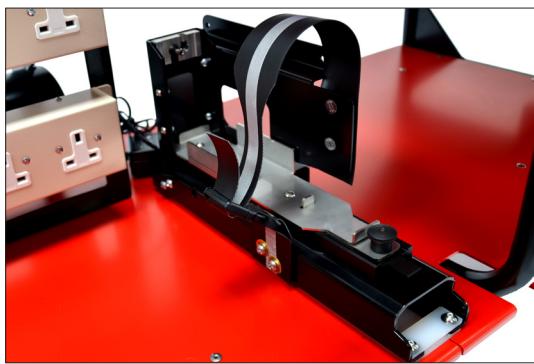
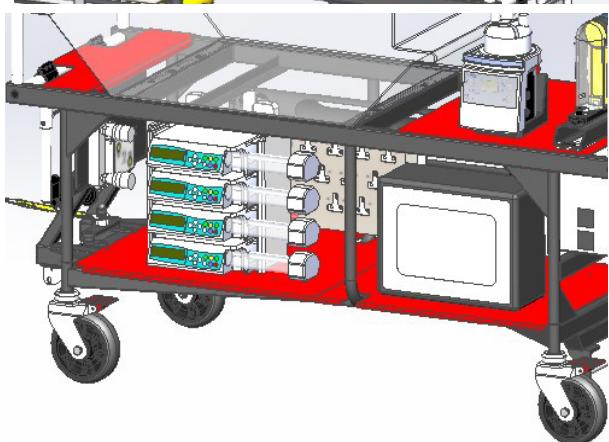
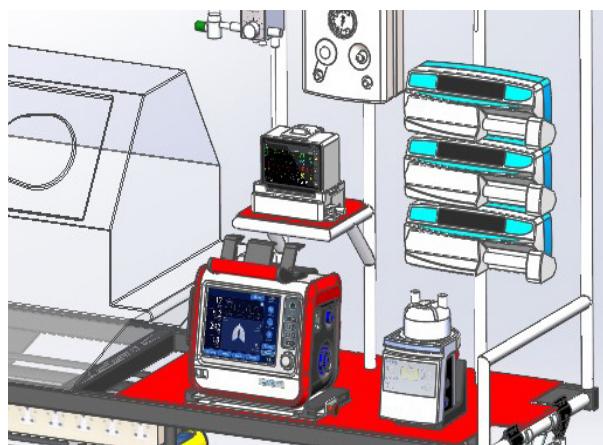


Example of locking storage cabinet

4 - ITU-PX TROLLEY FEATURES

4.7 - Medical device brackets

ITU-PX can be configured with mounting brackets according to equipment and medical devices that are required to be transported, some examples shown below. Many use the bracket designed by the medical device manufacturer. For details on how to mount and operate the medical devices, refer to the manufacturer's instruction manual / IFU.



4.8 - Power Sockets for Medical Devices

ITU-PX includes an Olson 12-way Power Distribution Panel for plugging in the various medical devices held on the trolley. The Power distribution board can then be plugged into a 240v power source to supply power to all devices.

The power distribution panel is a Hospital Grade, 13 Amp, unswitched PDU, with a neon power indicator on the panel. This is mounted onto the trolley underneath the patient platform with easy access to plug in all the various medical devices.

Other sizes of distribution box are also available.

Trolley can also be fitted with an inverter, with through pass, if required, for simple switching of supply of power when plugged in at hospital or in-vehicle

Refer to inverter manufacturer's instruction manual for details on installing and operating inverter.



Olson 2 * 6-way power distribution panels



Olson 12-way power distribution panels

5 - OPERATING THE TROLLEY FEATURES

5.1 - Wheel Brakes

The trolley is fitted with wheel brakes on all 4 wheels to prevent it from moving during patient transfer.

To lock the wheel brake in place apply a downward force onto the brake pedal until it fully locks in place. This will stop the wheel fork from rotating and stop the wheel from moving.



Wheel brake disengaged, pedal raised



Press down on pedal to engage wheel brake

To unlock the wheel lock, push brake pedal back up until it is horizontal again.



5.2 - Anti Static Wheel

To prevent static build-up within the trolley whilst moving, ITU-PX is fitted with one anti-static wheel on one corner. The anti-static wheel is recognisable by its rubberised finish.



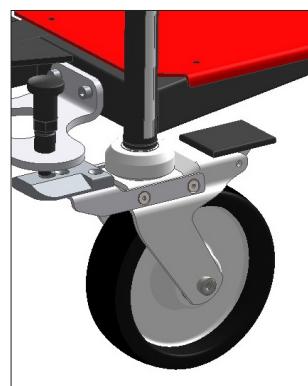
Rubberised Anti Static wheel on one corner

5.3 - Directional Wheel Lock (Option)

Directional wheel lock option allows the wheel direction to be locked in line with the trolley, to aid control when moving in a straight line, such as along hospital corridors or when moving up or down an incline, such as a vehicle ramp.

To engage the directional wheel lock, press down on the black plunger. This will lower the wheel-lock pin, which will then engage into the pin-slot located on the top of the wheel fork once the trolley is moved in a forward direction, thereby locking the wheel parallel in line with the trolley.

To disengage the directional wheel lock, Lift the black plunger back up again. This will raise and disengage the pin, thereby allowing the wheel to swivel again.



5 - OPERATING THE TROLLEY

5.4 - Push Pull handles

ITU-PX is supplied with push-pull handle at each end of the trolley. These are for use to aid manoeuvre of the trolley.



6 - PREPARING TO MOVE THE TROLLEY

6.1 - Manoeuvring the Trolley

It is important to ensure there are sufficient operators holding the trolley at all times when moving the trolley to maintain a stable movement throughout and wherever possible using more than the minimum recommended 2 operators.

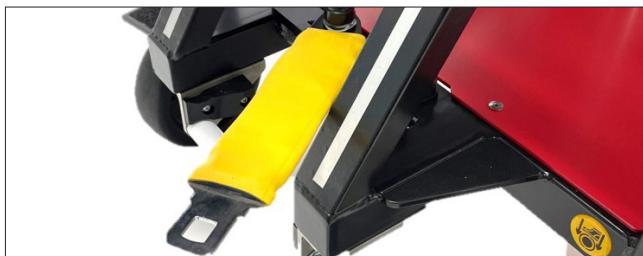
The following steps must be taken when moving a patient or when transferring on and off a vehicle via a tail-lift or ramp.

1. The trolley is recommended to be operated by at least two people at all times.
2. Where available, attach winch to the trolley winch-link to aid transfer into vehicle

6.2 - MCF Winch Link Attachment

The winch link connector at the head-end of the trolley aids the loading of a trolley into an ambulance with a ramp. The ambulance must be fitted with a winch mechanism with a MCF specification buckle. To operate, attach to the winch from the ambulance to the winch buckle situated on the trolley base at the head-end of the trolley.

Follow the winch manufacturer's instructions and recognised local manual handling protocols to winch the trolley into the vehicle.



6.3 - Loading the Trolley into a Vehicle Fitted with Ramps

1. Make sure that all equipment is securely attached to the trolley.
2. The trolley is loaded with the end of the trolley where the yellow winch link is located facing towards the front of the ambulance, typically the incubator is also mounted at that end of the trolley
3. Position the trolley at the base of the ramp.
4. If a winch is fitted then this should be attached to the winch link at the end of the trolley to aid loading.
5. With one operator at the front end pulling and one operator at the rear end pushing simultaneously, the trolley can now be advanced into the vehicle (or if using a winch, just operator at foot-end the other operator controlling the winch)
6. Secure the trolley into the vehicle 2-part lock for transport, ensuring it is correctly locked in place.

6.4 - Unloading the Trolley From a Vehicle Fitted with Ramps

1. Make sure that the patient is disconnected from any vehicle mounted apparatus or instrumentation.
2. Operation by a minimum of two operators at all times.
3. Disengage the trolley from the two part locking device by depressing the foot pedal (manual lock) and roll the trolley to the rear of the ambulance compartment.
4. Use winch wherever possible.
5. Using two operators guide the trolley down the ramp and out of the vehicle.

6.5 - Loading the Trolley into a Vehicle Fitted with a Tail Lift

1. Make sure that all equipment is securely attached to the trolley.
2. The trolley is loaded with the end of the trolley where the yellow winch link is located facing towards the front of the ambulance, typically the incubator is also mounted at that end of the trolley.
3. Guide the trolley on to the tail lift.
4. Operate the tail lift as per manufacturers' instructions.
5. Once the tail-lift is in the raised position, push the trolley into the vehicle front-end first and secure in the Ferno 2 part lock, ensuring it is correctly locked in place.

6 - PREPARING TO MOVE THE TROLLEY

6.6 - Unloading the Trolley From a Vehicle Fitted with a Tail Lift

1. Operation by a minimum of two operators at all times.
2. Disengage the trolley from the two part locking device by depressing the foot pedal, and roll the trolley to the rear of the ambulance compartment.
3. Guide the trolley onto the tail lift and out of the vehicle.
4. Operate the tail-lift as per the manufactures instructions.
5. Lower the tail-lift to the ground and move trolley forward clear from the tail-lift

6.7 - Fastening Trolley in a Vehicle

ITU-PX is compatible and has been tested with the Ferno range of 2-part locks, including NMI and Unwin track locks and SlideLock, and baseline ITU-PX Trolley has been dynamically crash-tested to EN 1789 and CEN certified.



Head-end lock spike fixing U bracket



Foot-end lock fixing bracket

7.1 -Locking Devices 2-Part Lock

Locking devices available for use with ITU-PX include:

1. Standard floor-mounted Ferno 2-part lock
2. NMI floor-track mounted 2-part lock
3. Unwin floor-track mounted 2-part lock
4. Ferno SlideLock 2-part lock with adjustable floor positioning

All have been dynamically crash-tested to EN 1789 and CEN certified when used in conjunction with Ferno UK's range of ambulance trolleys, Falcon, Pegasus, Megasus, Harrier, POWERX, and range of baseline CCT and ITU trolleys.

Combining different manufacturers' products into a "mixed-component" trolley/fastener system can increase the user's risk of injury and damage if not checked first for compatibility.

However, Ferno trolleys are designed to be compatible with the Ferno range of Two-Part locking devices or competitors equivalent locking devices, giving full compatibility and interchangeability across your vehicle fleet.



Ferno Standard 2-part lock



Ferno 2-part NMI Track lock

8 - MAINTENANCE

8.1 - Maintenance Schedule

The trolley requires regular maintenance. Set up and follow a maintenance schedule. The table at right/below represents minimum intervals for maintenance. Keep maintenance records. A sample maintenance record sheet is provided at the end of this manual.

When using maintenance products, follow the manufacturers' directions and read the manufacturers' material safety data sheets. You can purchase a recommended disinfectant from your Ferno distributor or Ferno UK Service Department.

Minimum Maintenance Intervals	Each Use	As Needed	Each Month
Disinfecting	•		
Cleaning		•	
Inspecting		•	•
Lubricating		•	

8.2 - Cleaning the Trolley

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

Ensure that all equipment is removed from the trolley and that the Olson Power distribution socket is disconnected from mains supply.

Trolley should be hand-wiped using a suitable cleaning solution.

For particularly grimy cases, especially if the trolley has been in storage for a long period, it may be necessary to first clean the trolley with a water-soluble solvent-soaked cloth.

Once cleaned, dry the trolley with a soft towel, paying particular attention to swivel and sliding joints. If a compressed air hose is available, you may find that compressed air jets are more effective in drying the hard-to-reach places..

Ensure no liquid enters the power distribution sockets.

8.3 - Disinfecting the Trolley

Wipe all surfaces with disinfectant. Follow the disinfectant manufacturer's instructions for application method and contact time. Ferno recommends you inspect the trolley for damage as you clean and disinfect it. See note regarding disinfectants to use.

- 1.Remove all equipment so that the trolley frame can be fully accessed
- 2.Hand clean all surfaces of the trolley with warm water and a mild detergent
- 3.Rinse with warm, clear water. Dry the trolley with a towel and allow it to air-dry thoroughly before replacing all the equipment, which themselves have also all been disinfected.
- 4.To disinfect: Apply disinfectant to the trolley, following the disinfectant manufacturer's instructions for application method and concentration

IMPORTANT

Disinfectants and cleaners containing phenol or iodine can cause damage, it is recommended not to use products containing these chemicals.

If using disinfectant that is chlorine-based then ensure the concentration used is no higher than 10,000 ppm.

If higher than 10,000 ppm, it is recommended to use for the manufacturer's minimum recommended effective contact time after which any residue should be wiped off.

Accessories such as push poles, IV poles etc. should be cleaned and disinfected whilst detached from the trolley and the fixing points on the trolley also cleaned and disinfected.

WARNING

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

8.4 - Lubrication of Parts

Disinfect and clean the trolley before applying lubricant. Use the lubricants designated below to lubricate the trolley. Do not lubricate points marked with the "do not lubricate" symbol.

Your Ferno trolley will work efficiently and safely only when it is lubricated. You **MUST** lubricate all moving and sliding parts after every inspection or preventative maintenance programme, or if there is inadequate lubrication for the moving parts to operate easily and quietly.

In general terms, almost all sliding and moving parts may be lubricated with light duty grease. A penetrating fluid lubrication is used on some sliding parts of the trolley. However, when a penetrating fluid lubricant is used, all excess **MUST** be wiped away, to prevent any build-up of dust or grime which can clog up working parts and impede movement.

IMPORTANT

Lubricating parts that should not be lubricated allows dirt and foreign particles to collect on those parts, resulting in damage. Lubricate **only** the numbered reference points shown.



Do Not Lubricate



Lubricate

10 - PARTS AND SERVICE

9.1 UK Support

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

Telephone Main Reception	+44 (0)1274 851999
Service Department	+44 (0)1274 854511
Service Email	services.uk@ferno.com
Web	www.ferno.com/uk



WARNING

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

9.2 Worldwide

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



WARNING

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

10.1 - Accessories

Ferno offers range of options and accessories for use with ITU-PX, many of which are outlined in this user manual. Always follow the instructions packed with accessories. Keep the instructions with this manual. Be aware of any special considerations (loading heights, door widths, etc.) when using accessories.

Contact Ferno UK or your Ferno distributor for further product information.



WARNING

Attaching improper items to the trolley can cause injury. Use only Ferno-approved items on the trolley.

11 - Inspection Checklist

To ensure consistently safe operation of the trolley and to monitor wear and tear, prior to each use, ensure the trolley is thoroughly checked in compliance with the following checklist.

INSPECTION CHECKLIST	TICK
• Are all components present?	<input type="checkbox"/>
• Is the trolley generally free of excessive wear?	<input type="checkbox"/>
• Are all screws, nuts, bolts and rivets securely in place?	<input type="checkbox"/>
• Does the trolley move smoothly?	<input type="checkbox"/>
• Do the wheel castors and brake operate properly, rotate fully and have adequate tread?	<input type="checkbox"/>
• Are all brackets and mounts present on the trolley?	<input type="checkbox"/>
• Check the integrity and operation of the push/pull handles	<input type="checkbox"/>
• Check that the ambulance has a properly installed, approved locking device and that the trolley locks in securely.	<input type="checkbox"/>
	<input type="checkbox"/>

12 - SERVICING SCHEDULE

It is recommended in addition to the regular inspection and cleaning interventions that Ferno ITU-PX trolley is serviced at least once every 12 months. Below is a service schedule sheet where servicing dates and activities can be recorded. Ferno UK offers a range of cost-effective servicing programmes, helping to keep your equipment in good condition and keeping whole life time costs to a minimum.

Trolley Model	
Serial Number	
Date placed in operation	

