

Model 35A Series


Ambulance Cot



Users' Manual

Pub. No. 234-3451-02



Read this Manual and Retain
for Future Reference 

Ferno Customer Relations

For ordering assistance or general information:

CANADA AND THE U.S.A.

| | |
|-----------------------|--|
| Telephone (Toll-free) | 1.877.733.0911 |
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ALL OTHER LOCATIONS

For assistance or information, please contact your Ferno distributor. If you do not have a Ferno distributor, please contact Ferno Customer Relations:

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| | |
|-----------|--|
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USERS' MANUALS

To request additional free users' manuals, contact Ferno Customer Relations, your Ferno distributor, or www.ferno.com.



Serial Number _____

Location (all models): Crosstube under the shock frame

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 at 1.800.733.3766 or 1.937.382.1451.



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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

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

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

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

Failure to use the safety hook can cause injury. Install and use the safety hook as described in this manual.

Improper operation can cause injury. Operate the cot 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 cot and be injured. Use restraints to secure the patient on the cot.

Rolling the cot sideways or in a loading position can cause the cot to tip and injure the patient or operators. Roll the cot only in a level (rolling) position and with the head-end or foot-end first.

False locking can cause injury. After changing positions, lift the cot until all the wheels are off the ground. This allows the lock to engage if it has not already done so.

Sheets or other objects can interfere with, or become entangled in, the height-adjustment locking mechanism. This can cause injury and/or malfunction, including unexpected cot lowering. Do not tuck sheets or place other objects where they can interfere with, or become entangled in, the locking mechanism.

Helpers can cause injury. Maintain control of the cot, operate the controls, and direct all helpers.

Helpers can be injured. Show helpers where to grasp the cot to avoid pinch points.

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

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

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

1.2 Important

Important notices emphasize important usage or maintenance information.

Important

1.3 Symbol Glossary

The symbols defined below are used on the cot and in this users' manual. Ferno uses symbols recognized by the International Standards Organization (ISO), American National Standards Institute (ANSI) and the emergency medical services industry.



General Warning of Potential Injury



Pinch Point: Keep Hands Clear



Read the Users' Manual



Operation Requires Two Trained Operators



Load Capacity
(Safe Working Load in pounds, kilograms, stone)



Product meets European Union Standards



Unlocked



Locked



Do Not Lubricate



Lubricate



Do Not Fold Cot With Items On Tray



Manufacturer



Authorized Representative in the European Community

1.4 Bloodborne Disease Notice

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

1.5 Cot and Fastener Compatibility

Combining different manufacturers' products into a "mixed-component" cot/cot fastener system can increase the user's risk of injury and damage.

Ferno-Washington, Inc. strongly recommends that only Ferno-manufactured cots be used in Ferno-manufactured cot fasteners, and that only Ferno-manufactured cot fasteners be used for securing Ferno-manufactured cots in ambulances.

ANY COMBINATION OF A FERNO COT OR COT FASTENER WITH A NON-FERNO COT OR COT FASTENER IS MISUSE OF THE FERNO PRODUCT. Responsibility for the outcome of known, intentional misuse rests squarely on the misuser.

1.6 Safety and Instruction Labels

Safety and instruction labels place important information from the users' manual on the cot. Read and follow label instructions. Replace worn or damaged labels immediately. New labels are available from EMSAR (page 29) or from your Ferno distributor (page 2).



Pinch Point Label (Qty. 4 or 6)
Keep hands clear of these areas



Tray Label (Qty. 2)

On cots equipped with a lower storage tray, this label reminds operators to empty the tray before lowering or loading the cot.



Hand Guard Label (Qty. 2)

Removing the guard can expose operators or helpers to injury. Do not remove the guard.



General Information Label (Qty. 1)

This label identifies the cot and warns the user to read the users' manual, operate the cot with two trained operators, and to observe the cot Load Capacity.

2 - OPERATOR SKILLS AND TRAINING

2.1 Skills

Operators using the cot need:

- a working knowledge of emergency patient-handling procedures.
- the ability to assist the patient.

2.2 Training

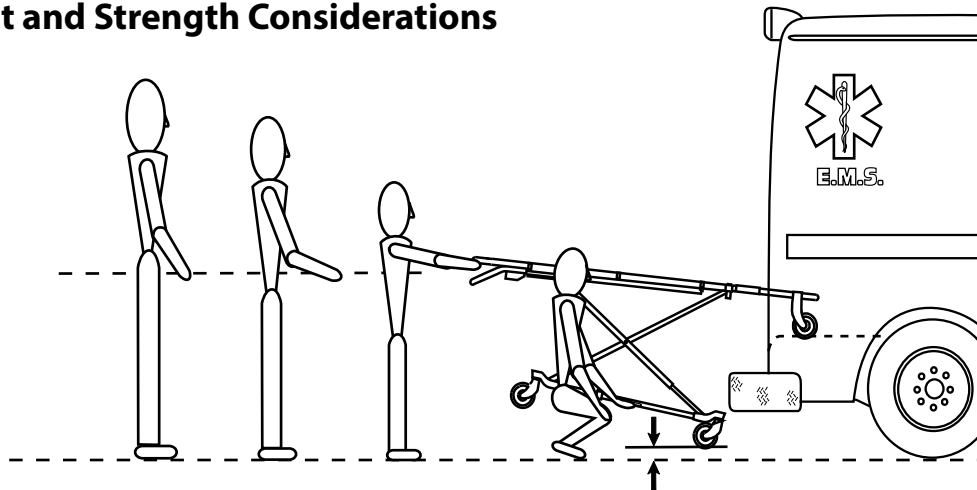
Operator trainees need to:

- read and understand this manual.
- be trained on the use of the cot.
- practice with the cot before using it with a patient.
- record their training information. A sample training record sheet is provided on page 31.

WARNING

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

2.3 Height and Strength Considerations



When unloading the cot, the foot-end operator must lift and hold the weight of the cot, patient and equipment high enough for the wheels to remain off the ground until the undercarriage legs completely unfold and lock into place.

Supporting this weight requires greater strength from short operators than from tall operators because short operators must raise their arms higher in relation to their shoulders.

Be aware that if the ambulance is parked on an uneven surface, the foot-end operator (and any helpers) may need to lift the cot higher than normal to allow the legs to unfold completely and lock.

Note: Use additional help as needed to lift the weight of the cot, patient and equipment (see Using Additional Help, page 25).

3 - ABOUT THE COT

3.1 Description

The Ferno® Model 35A Series Ambulance Cot (called the “cot” in this manual) is an emergency patient-handling device designed to transport a patient in a ground-based ambulance.

The cot is for professional use by a minimum of two trained operators. It is designed for roll-in loading to help reduce the risk of back injury to medical service personnel.

The standard term “cot” is used in this manual when features are the same among all models. When features differ, the specific model name is used.

COT FEATURES (ALL COTS)

- Clear-anodized handling surfaces keep hands and clothes clean
- Eight height positions
- Two loading positions for vehicle floors 28 inches to 32 inches (711-810 mm)
- Pneumatic backrest
- Two-position drop frame
- Two-position shock frame
- Swing-down sidearms
- Lead handle
- Four 5"x1.25" (127x32 mm) transport wheels and two 5"x1" (127x25 mm) loading wheels
- Users' manual included
- The following are included or available for purchase separately, based on the terms of your purchase order. (For more information, contact your distributor or Ferno Customer Relations, page 2)
 - Set of three restraints
 - Mattress



WARNING

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



U.S.A. NOTICE

The cot is for use with ambulances that meet the requirements of the “Star of Life” certification via Federal Ambulance Specification KKK-A-1822. For information, contact:

Federal Supply Services, Specifications Section
Suite 8100
470 E. L'Enfant Plaza, SW
Washington, DC 20407

MODEL-SPECIFIC COT FEATURES

| Cot Name | Bed Surface | Compatible with Ferno® Cot Fastener | Oxygen Cylinder Holder | Storage Tray | Wheel Locks (2 Wheels) |
|----------|-----------------|-------------------------------------|------------------------|--------------|------------------------|
| 35A | Aluminum Tubes | 175 (Antler/Rail) | Accessory | Accessory | Option |
| 35A-ST | Aluminum Tubes | Stat Trac® | Accessory | Accessory | Option |
| 35A+ | Aluminum Panels | 175 (Antler/Rail) | Standard | Standard | Option |
| 35A+ST | Aluminum Panels | Stat Trac® | Standard | Standard | Option |

COT FASTENER NOTES

- Cots compatible with the Model 175 antler/rail fastener are constructed with an integrated fastener post, fastener release levers, and a safety bar as standard cot features. A user-installed safety hook is shipped with the cot (Model 35A and Model 35A+).
- Cots compatible with the Stat Trac® fastener are constructed with two fastener loading posts and a fastener release handle as standard cot features (Model 35A-ST and Model 35A+ST).

3.2 General Specifications

Most general specifications below are rounded to the nearest whole number. Metric conversions are calculated before rounding the Imperial measurements. For more information, contact Ferno Customer Relations (page 2) or your Ferno distributor.

Ferno reserves the right to change specifications without notice.

Construction Tubular aluminum

Wheels

| | |
|----------------|-------------------|
| Diameter | 5 in./127 mm |
| Width | 1.25 in./32 mm |
| Wheel Bearings | Sealed/greaseless |

Bed Surface (35A, 35A-ST) Aluminum tubes

Bed Surface (35A+, 35A+ST) Aluminum panels

Height¹

Bed Position 8 35 in./883 mm

Loading Position 2 **32 in./810 mm**

Bed Position 7 33 in./834 mm

Loading Position 1 **28 in./711 mm**

Bed Position 6 30 in./772 mm

Bed Position 5 28 in./699 mm

Bed Position 4 24 in./616 mm

Bed Position 3 20 in./521 mm

Bed Position 2 16 in./413 mm

Bed Position 1 (folded) 10 in./257 mm

Length

Maximum 79 in./2007 mm

Minimum 61 in./1549 mm

Width (Overall) **24 in./610 mm**

Weight²

35A 74 lb/34 kg

35A-ST 78 lb/35 kg

35A+ 84 lb/38 kg

35A+ST 88 lb/40 kg

Strength to Weight Ratio³

35A 6.76 SWR

35A-ST 6.41 SWR

35A+ 5.95 SWR

35A+ST 5.68 SWR

Load Capacity **500 lb/227 kg**

Load Capacity (UK) **35.7 st**

Note: All Ferno® mattresses for emergency medical service use are heat-sealed.

¹ Height measurements are as follows: Loading Position is the distance from the ground to the bottom of the loading wheel. Bed Position is the distance from the ground to the patient surface, measured at the casting in the center of the bed surface.

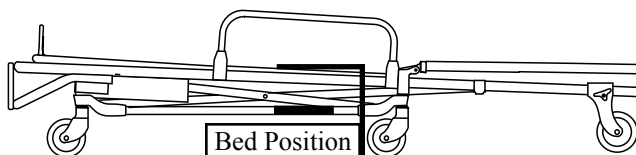
² Weight is without mattress, restraints and optional features.

³ Strength to Weight Ratio is the Load Capacity of the cot divided by the cot's weight.

3.3 Cot Positions

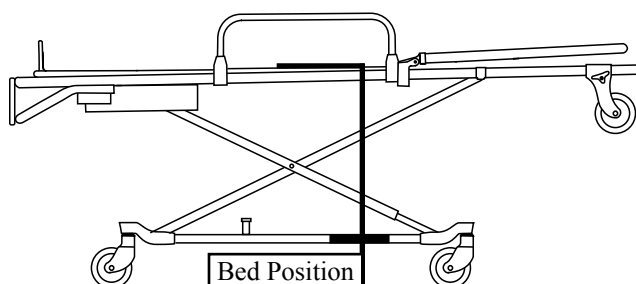
FOLDED POSITION

Use the folded position to transfer the patient, secure the cot inside an ambulance, or to store the cot.



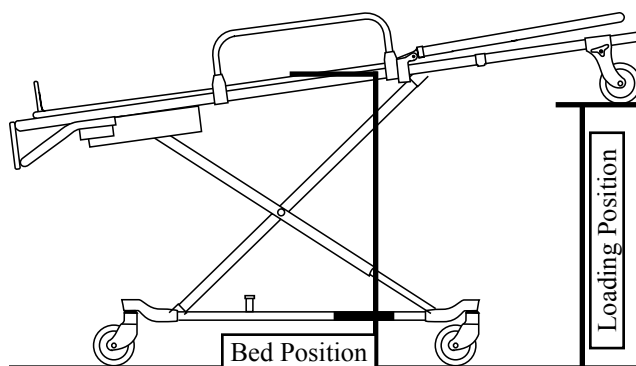
ROLLING/TRANSFER POSITION (5)

Use a level position to roll the cot and for transferring the patient to or from the cot.



LOADING POSITION (2)

The loading positions are for use only when loading the cot into, or unloading the cot from, an ambulance. Use the lowest loading position that allows the cot to roll into the ambulance.



Load Capacity



Inspect the cot if the load capacity has been exceeded. See *Inspecting the Cot*, page 27).

4 - SETUP AND INSTALLATION

4.1 Ambulance Information

The ambulance bumper extension should not exceed 14 inches (356 mm). The patient compartment should have a level floor large enough for the folded cot, and a Ferno® cot fastener installed (not included). See *Cot and Fastener Compatibility*, page 4.

Important

Loose items and debris on the patient compartment floor can interfere with the operation of the cot with the fastener. Keep the patient compartment floor clear.

4.2 Restraints and Accessories

Before placing the cot in service, place the mattress on the cot bed and assign appropriate personnel to install the restraints and any accessories shipped with the cot. Follow the instructions in the restraint and accessory users' manuals supplied with the products.

Keep all restraint and accessory users' manuals with this manual for future reference.

For additional, free manuals, contact Ferno Customer Relations or your Ferno distributor (page 2).



WARNING

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

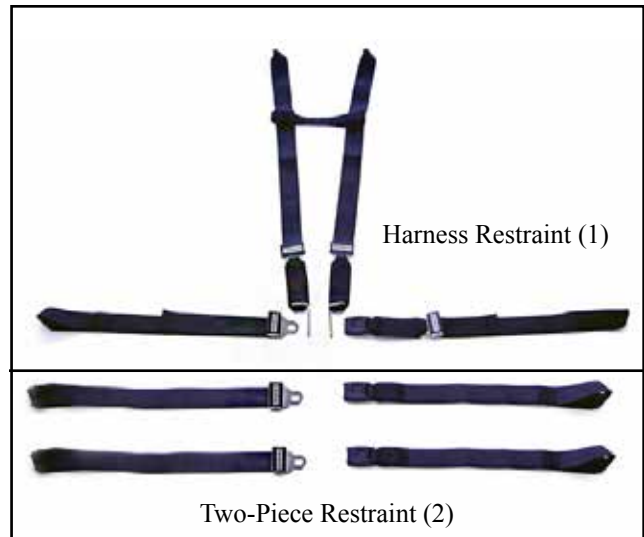


Figure 1 - Restraints (Set of Three)

4.3 Fastener Compatibility

Read the cot fastener users' manual for instructions on using the fastener (see *Cot and Fastener Compatibility*, page 4).

ANTLER-AND-RAIL FASTENER

The Models 35A and 35A+ cots are compatible with all versions of the Ferno® Model 175 antler-and-rail cot fasteners. The cot fastener must be configured for use with the Ferno® Model 35 Series. See the fastener installation manual for complete installation details.

Using the Model 175 cot fastener requires the installation of the safety hook (included with the cot).

STAT TRAC® FASTENER

The Models 35A-ST and 35A+ST cots are compatible with all versions of the Ferno® Model 185 Stat Trac® fastener. See the fastener installation manual for complete installation details.

Important

A "sloped" (or low-profile) mounting block (shown here) must be used when the antler portion of the cot fastener is **removable** (installed with large turn-knobs for easy removal).

If your **removable** fastener does not already have this mounting block, contact Ferno Customer Relations, page 2.



This block is **not** used with fasteners permanently-mounted to the floor with a large bolt.

4.4 Install the Safety Hook

Note: If your ambulance service uses **only** the Stat Trac® Fastening System, skip the rest of Section 4.

The safety hook (Figure 2) provided with the cot must be installed on the ambulance floor. The safety hook is used with the Ferno® Model 175 Cot Fastener.

The safety hook catches the cot safety bar (Figure 3) to ensure that the cot remains secure inside the ambulance while the operators raise or lower the undercarriage during loading or unloading.

Installing the safety hook requires the skills of a mechanic familiar with ambulance construction.

Before installing the safety hook, consult the ambulance manufacturer regarding:

- the location of wiring, oxygen or fuel lines, and other elements under the ambulance floor
- the ambulance warranty.

HARDWARE REQUIRED (NOT SUPPLIED)

| | |
|---|-------------------------------|
| 2 | 1/4-20 Socket-head cap screws |
| 2 | Flat washers |
| 2 | Lock washers |
| 2 | 1/4-20 Nuts |

- The socket-head cap screws must be long enough to pass through the safety hook, patient compartment floor, both washers, **and** still have at least two full threads extending past the nut.
- The hardware should be of at least SAE Grade 5 or higher, with UNC-2 threading (or equivalent), and a corrosion-resistant coating.

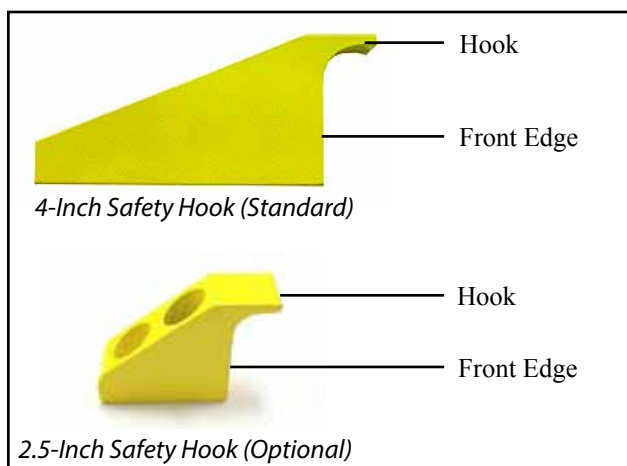


Figure 2 - Safety Hook (One Shipped with Cot)



WARNING

Failure to use the safety hook can cause injury. Install and use the safety hook as described in this manual.

Important

Before installing the safety hook, consult the ambulance manufacturer about possible interference with wiring and other elements under the ambulance floor, and about the ambulance warranty.



Figure 3 - Engaging the Safety Hook

PROPER SAFETY HOOK PLACEMENT

Position the safety hook as close to the rear of the ambulance as possible, within the limits below:

- The bumper or extended folding bumper must not exceed 14 inches (356 mm).
- Position the safety hook with the hook facing the front of the ambulance.
- Position the safety hook at least 11 inches (279 mm) from both sides of the door frame (Figure 4) so the cot safety bar will engage the hook when the cot is loaded or unloaded.
- Position the safety hook no more than 19-7/8 inches (505 mm) from the front edge of the hook to the rear of the ambulance, **including** the bumper and folding bumper step in the extended (open) position.

Important

If the safety hook is installed too far inside the ambulance, you will not be able to properly fold or unfold the cot undercarriage when it is secured by the hook. Measure and install the safety hook as instructed in this manual.

INSTALLING THE SAFETY HOOK

1. Mark the position of the safety hook on the floor.
2. Drill holes for the screws and attach the safety hook to the floor (Figure 5).
3. To test the hook, load and unload the cot. Verify that there is no interference with folding or unfolding the legs.

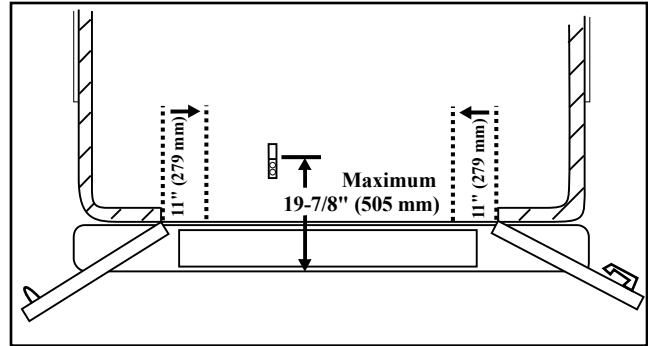


Figure 4 - Safety Hook Placement

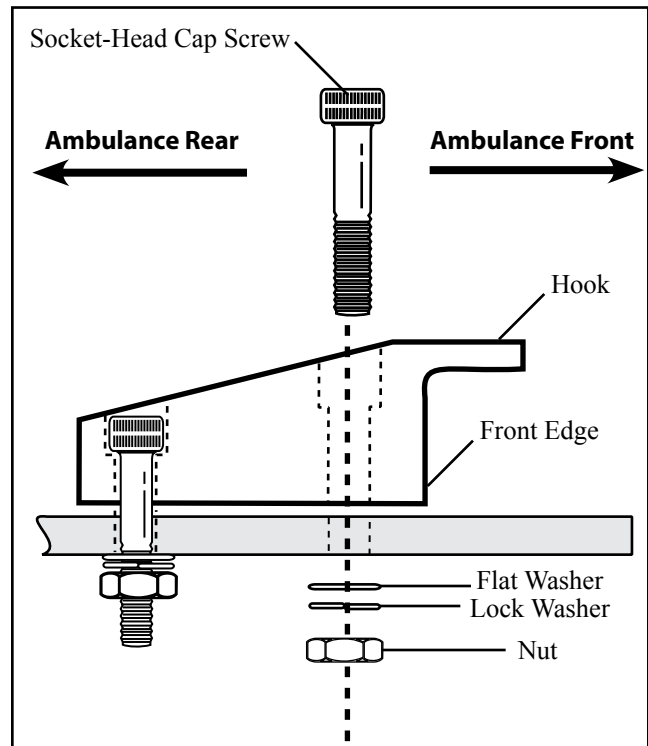


Figure 5 - Installing the Safety Hook

5 - USING THE FEATURES

5.1 Lift-First Control Handles

- **Purpose:** An operator uses one of the Lift-First control handles to disengage the locking mechanism and raise or lower the cot.
- **Location:** There are three Lift-First control handles: an upper and a lower control handle at the cot foot end (Figure 6), and a side control handle at the patient's right side of the cot (Figure 7).
- **Use:** Any one of the control handles may be used to disengage the undercarriage lock.
 - A “Lift-First” style control handle requires the operators to lift the weight of the cot, patient and accessories off the locking mechanism before pulling the control handle.
 - To lift the cot evenly, the two trained operators must stand opposite one another. If using a foot-end control handle, position the assisting operator at the cot head end. If using the side control handle, position the assisting operator at the opposite side of the cot.
 - Use the control handle that is best for the lifting situation. For example, the lower control handle gives a short operator better leverage for lifting.
 - After the position change, both operators continue to support the weight of the cot, patient and accessories while the operator releases the control handle to allow the undercarriage to lock. Both operators verify that the cot has locked at the new position before relaxing their grasp on the main frame.



Figure 6 - Foot-end Control Handles



Figure 7 - Side Control Handle

Using the Lift-First Control Handle

1. **All Operators/Helpers:** In a movement coordinated between the operators and any helpers, lift the cot to take the weight off the locking mechanism.
2. **Control Operator:** While continuing to hold the weight of the cot, open the control-handle hand and pull the control handle to unlock the cot's locking mechanism.
3. **All Operators/Helpers:** Raise or lower the cot to the desired height.
4. **Control Operator:** Release the control handle when the cot is near the desired height.
5. **All Operators/Helpers:** Continue to raise or lower the cot until the lock engages.
6. **All Operators/Helpers:** Before relaxing your grasp on the cot main frame, verify that the cot has locked at the new position.

5.2 Ergonomic Lifting Positions

- **Purpose:** Both operators choose the best position for lifting and lowering the cot.
- **Use:** Always grasp the cot with both hands, using an underhand (palms up) grip. For complete instructions, see *Raising and Lowering the Cot*, page 19.

Foot-end Operator: Select either the upper or lower lifting frame (Figure 8)

Head-end Operator:

- **Models 35A and 35A+ Only:** Grasp the drop frame or the safety bar (Figure 8)
- **Models 35A-ST, 35A+ST Only:** Grasp the drop frame (main frame)

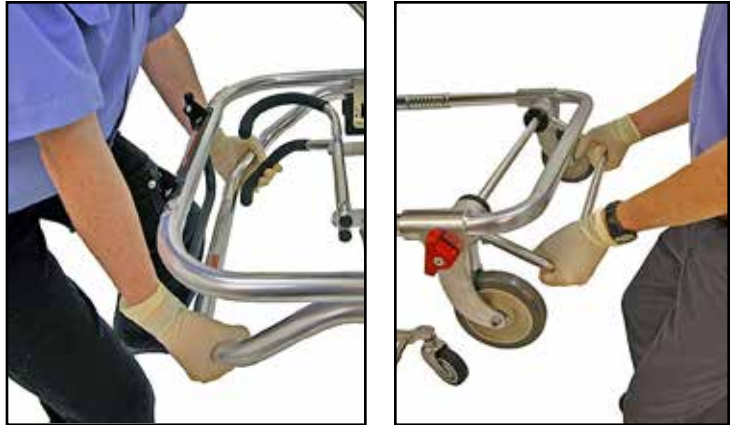


Figure 8 - Short Operators Grasping the Lower Lift Frame and Safety Bar

5.3 Fastener Release Controls

- **Purpose:** The fastener release control lever (Models 35A, 35A+) or fastener release control handle (Models 35A-ST, 35A+ST) allows the cot to be released from the cot fastener when unloading the cot from an ambulance.
- **Location:** The lever or handle is located near the cot loading wheels.
- **Use:** Before using the control lever or handle, verify that the undercarriage is locked, then release the cot from the fastener as follows:
 - **Models 35A, 35A+:** Release the cot from the safety hook by turning the lever counter-clockwise (Figure 9).
 - **Models 35A-ST, 35A+ST:** Release the cot from the Stat Trac® safety stop by squeezing the release handle (Figure 10).



Figure 9 - Release Lever (Model 175 Fastener)

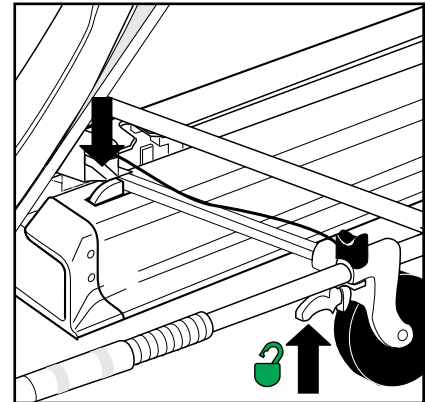


Figure 10 - Release Handle (Stat Trac® Fastener)

5.4 Two-Position Drop Frame

- **Purpose:** In the extended position, the two-position drop frame (Figure 11) is used for raising, lowering, loading, and unloading the cot. In the lowered position, it is used to shorten the cot where space is limited, such as in an elevator or narrow hallway. The frame is unlocked in the lowered position and is not usable for lifting.
- **Use:** To lower the drop frame:
 1. Place the cot in Position 5 or Position 6.
 2. Unfasten or loosen the harness restraint and raise the backrest.
 3. Grasp the hinge sleeves on the drop frame and slide them toward the head end of the cot to expose the hinges (Figure 11).
 4. Push the drop frame down.
 5. Fasten and/or adjust the harness restraint.

To extend the drop frame, raise the frame until the hinge sleeves automatically snap over and lock the hinges.

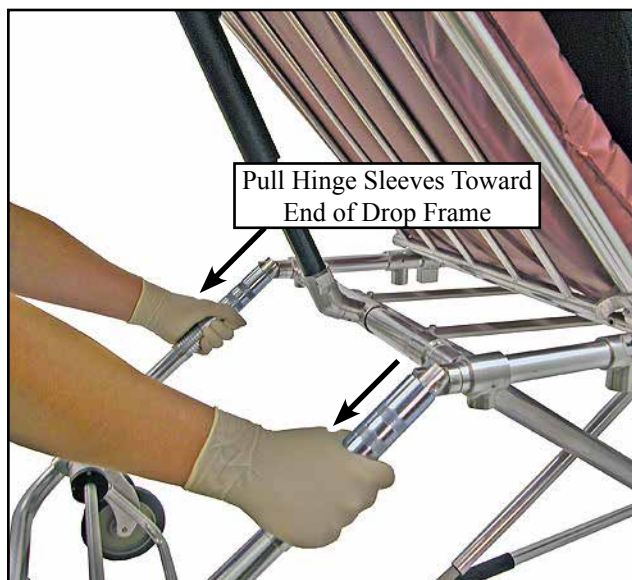


Figure 11 - Lowering the Drop Frame

5.5 Backrest

- **Purpose:** The backrest allows the patient's torso to be elevated for comfort or for medical necessity. The backrest can be adjusted between 0° and 75°.
- **Before Use:**
 - Loosen or unbuckle the harness restraint.
 - Support the weight of the backrest and patient.
- **Use:** Press the red control handle toward the backrest frame to unlock the backrest (Figure 12), then raise or lower the backrest to the desired position. Release the control handle to lock the backrest at the new position.
 - The backrest is under pressure to ease raising and lowering. When a heavy patient is on the cot, support the patient's weight before adjusting the backrest. When a light patient is on the cot, control the upward movement of the backrest so it does not move too quickly.
- **After Use:** Buckle and/or adjust the harness restraint.



Figure 12 - Adjusting the Backrest

5.6 Shock Frame

- **Purpose:** The shock frame allows the operator to elevate the patient's legs to treat shock or for patient comfort.
- **Use:**
 - **Before Use:** Loosen or unbuckle the leg restraint.
 - **To raise,** stand at the foot end of the cot. Use both hands to lift the shock frame until it locks in the raised position.
 - **To lower,** stand at the foot end of the cot. Lift the shock frame slightly to support the weight, then press the two thumb levers (Figure 13) and lower the shock frame.
 - **After Use:** Buckle and/or adjust the leg restraint.

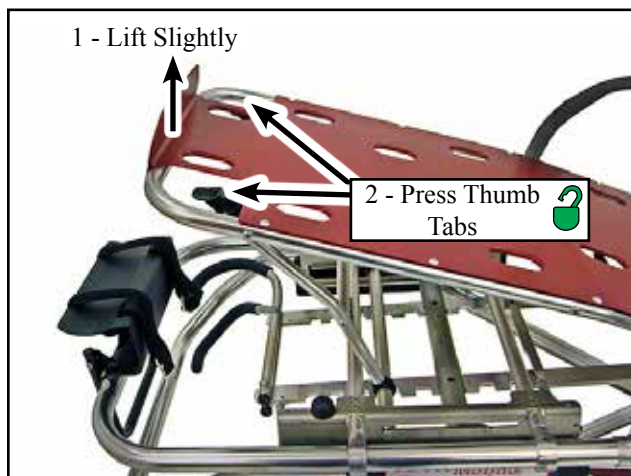


Figure 13 - Lowering the Shock Frame

5.7 Sidearms

- **Purpose:** Sidearms provide patient security and comfort. Keep the sidearms raised except when transferring a patient to or from the cot.
- **Use:**
 - **To lower,** squeeze the sidearm release handle (Figure 14) and lower the sidearm.
 - **To raise,** lift the sidearm until it locks. You do not need to use the release handle.

Important

Do not use the sidearms to lift the cot. Sidearms are not designed for lifting. Lift the cot only by grasping the main frame.

Figure 14 -
Sidearm Release
Handle



5.8 Lead Handle

- **Purpose:** The lead handle allows the foot-end operator to pull the cot when it is in a rolling position.
- **Use:** Raise the lead handle for use; lower it when not in use (Figure 15).
 - Use the lead handle only when the cot is on a smooth, level surface. When rolling the cot on an incline or rough terrain, grasp the main frame of the cot with both hands.



Figure 15 - Lead Handle

5.9 Wheel Locks (Optional)

- **Purpose:** The wheel locks help keep the cot stationary during patient transfer and certain medical procedures. When engaged, the wheel lock stops wheel rotation.
- **Location:** On equipped cots, the wheel locks are located at opposite corners of the cot where they are accessible to the operator's right foot.
- **Use** (Figure 16):
 - **To engage:** The trailing end of the lock lever is marked with the word "ON"; press this end of the lever to engage the lock.
 - **To disengage:** The shank-end of the lever is marked with the word "OFF". Press this end of the lever to disengage the wheel lock.
 - Wheel locks are **NOT** brakes. Engage the wheel locks only when the cot is stationary. Stay with the cot and maintain control of it at all times. Do not leave the patient unattended.

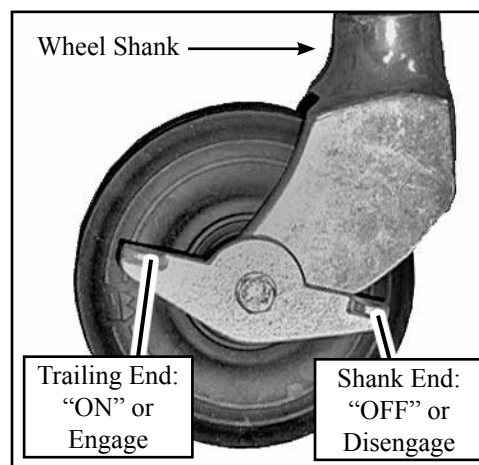


Figure 16 - Wheel With Wheel Lock

5.10 Oxygen Cylinder Holder (Models 35A+, 35A+ST Only)

- **Purpose:** The oxygen cylinder holder secures a “D”-size or “Jumbo D”-size portable oxygen cylinder (up to 5.3" (135 mm) diameter by 18.75" (476 mm) length. It is also compatible with Spiracle Technology’s “DD-Lite” oxygen cylinder.
- **Location:** On equipped cots, the oxygen cylinder holder is attached to the foot end of the shock frame (Figure 17).
- **Use:**
 1. Unfasten the straps and center the cylinder on the holder.
 2. Wrap the straps around the cylinder and thread the straps through the D-rings.
 3. Cinch the straps tight, then press the hook-and-loop fastener straps together (Figure 17).



Figure 17 - Oxygen Cylinder Holder

5.11 Storage Tray (Models 35A+, 35A+ST Only)

- **Purpose:** The storage tray can hold items while the cot is being rolled. Remove items before lowering or folding the cot and before loading the cot into an ambulance. Include the weight of items placed on the tray as part of the total load on the cot.
- **Location:** On equipped cots, the tray is located between the four transport wheels inside the cot undercarriage (Figure 18).



Figure 18 - Storage Tray

Important

Items on the tray can interfere with folding the undercarriage. Empty the tray before lowering, folding, or loading the cot.

6 - USING THE COT

6.1 Before Placing the Cot in Service

- Personnel who will work with the cot need to read this manual.
- Set up the cot, following the instructions in *Setup and Installation*, pages 9-11.
- Confirm that the cot operates properly. See *Inspecting the Cot*, page 27.
- The vehicle must have a Ferno® cot fastener system installed.

6.2 General Guidelines for Use

- Medical advice is beyond the parameters of this manual.
- It is the users' responsibility to ensure safe practices for the patient and themselves.
- A minimum of two trained operators is required.
- Follow standard emergency patient-handling procedures when operating the cot.
- **Operators work together and maintain control of the cot at all times.**
- Operators communicate with one another and use coordinated movements to operate the cot.
- Lift only the weight you can safely handle. Use additional help when working with heavy loads (patient and equipment). For placement of helpers, see *Using Additional Help*, page 25.
- Stay with the patient at all times.
- Always use patient restraints to secure the patient on the cot.



WARNING

Improper operation can cause injury. Operate the cot 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 cot and be injured. Use restraints to secure the patient on the cot.

Rolling the cot sideways or in a loading position can cause the cot to tip and injure the patient or operators. Roll the cot only in a level (rolling) position and with the head-end or foot-end first.

False locking can cause injury. After changing positions, lift the cot until all the wheels are off the ground. This allows the lock to engage if it has not already done so.



Read the Users' Manual



Operation Requires
Two Trained Operators



Load Capacity
(Safe Working Load in
pounds, kilograms, stone)

6.3 Fully Engaging the Locking Mechanism

False locking is a condition in which the locking mechanism does not fully engage when a control handle is released. This can occur after changing cot positions if the locking pin rests exactly on the tip of a ratchet bar tooth, and can allow the cot to lower to the next locking position when moved.

To ensure the locking mechanism fully engages after changing positions, lift the cot until all the wheels are off the ground. This allows the lock to fully engage if it has not already done so.

6.4 Raising and Lowering the Cot

Changing cot positions with a patient on the cot requires a minimum of two trained operators working together.

PREPARING TO RAISE OR LOWER THE COT

1. **Both Operators:** If the cot is equipped with a storage tray, empty the tray before lowering or folding the cot.
2. **Assisting Operator:** Raise the drop frame to the extended position if needed.
3. **Both Operators:** Stand at opposite ends or sides of the cot (Figure 19 or Figure 20).
4. **Both Operators:** Select the lifting position that provides the best leverage. Use an underhand grip to grasp the cot frame (or safety bar, see *Ergonomic Lifting Positions*, page 13).
5. **Foot-End or Side-Control Operator:** Position your hand to use the control handle.

Important

Extend the drop frame before adjusting the height of the cot.

Important

Operators should expect and be prepared to control the normal downward movement of the cot which occurs when a control handle is squeezed.

RAISING OR LOWERING THE COT

1. **Both Operators:** Lift the cot slightly to take the weight off the locking mechanism.
2. **Both Operators:** As the control operator squeezes and holds the control handle, both operators raise or lower the cot. If the control handle is difficult to squeeze, both operators lift the cot a little higher to free the locking mechanism.
3. **Control Operator:** Release the control handle when the cot is near the desired height.
4. **Both Operators:** Together, lift the cot until all four transport wheels are off the ground. This ensures the undercarriage lock engages if it has not already done so.
5. **Both Operators:** Set the cot onto the floor or ground. Do not release your grasp until you are sure the undercarriage is locked at the new position.



Figure 19 - Raising or Lowering the Cot



Figure 20 - Raising or Lowering the Cot

Two-Stage Raising or Lowering

To maintain proper lifting techniques, the operators may choose to adjust the cot height in two stages (Figure 21). To do this:

1. Use one set of lifting positions to raise or lower the cot partway.
2. Stop at a comfortable position and verify that the undercarriage is locked.
3. Adjust your hands to new lifting positions:
 - **Assisting Operator:** Move your hands from the drop frame to the safety bar (if equipped) or vice-versa.
 - **Control Operator:** Move your hands from the main frame to the lower lift frame or vice-versa.
4. Raise or lower the cot to the desired final position.



Figure 21 - Raise or Lower the Cot Partway, Then Adjust Your Grasp and Continue

6.5 Transferring the Patient to the Cot

To transfer a patient onto the cot:

1. Unfasten the restraints and arrange the straps so they will not interfere with transferring the patient onto the cot.
2. Place the cot beside the patient and adjust it to the patient's level.
3. Engage the wheel locks (if equipped) and lower the sidearms.
4. Transfer the patient onto the cot using approved EMS procedures and following your local protocols.
5. Raise the sidearms. Adjust the backrest and shock frame as needed.
6. Fasten and adjust the patient restraints (Figure 22).
7. Disengage the wheel locks if needed.
8. Before moving the cot or changing its position, make sure sheets and other articles will not interfere with cot operation.



WARNING

Sheets or other objects can interfere with, or become entangled in, the height-adjustment locking mechanism. This can cause injury and/or malfunction, including unexpected cot lowering. Do not tuck sheets or place other objects where they can interfere with, or become entangled in, the locking mechanism.



Figure 22 - Securing the Patient

6.6 Rolling the Cot

GENERAL GUIDELINES

- Rolling the cot with a patient on the cot requires a **minimum of two trained operators working together and maintaining control of the cot at all times.**
- Rolling the cot in a loading position can increase the chance for the cot to tip. Always use a rolling position to roll the cot (See *Cot Positions*, page 8).
- Roll the cot on smooth, unobstructed surfaces whenever possible.
- To cross a low obstacle such as a door sill, lift the cot slightly to take the weight off the wheels so the wheels roll smoothly over the obstacle.
- Lift and carry the cot over a high obstacle such as a curb. **Do not** apply downward force on one end of the cot in order to raise the other end of the cot over the obstacle.
- Do not roll the cot sideways. Rolling a cot sideways can increase the chance for the cot to tip and injure the patient and/or operators.
- Use additional help as needed to safely control the weight of the patient and cot (see *Using Additional Help*, page 25).
- When rolling over rough terrain, the operators (and helpers) should grasp the cot with both hands.
- Side helpers may need to walk sideways under some circumstances. Follow local protocols.

ROLLING THE COT

1. Securely fasten the restraints around the patient.
2. **Both Operators:** Place the cot in a rolling position. See *Cot Positions*, page 8.
3. **Control Operator:** Position yourself at the foot end of the cot, grasp the main frame, and pull or push the cot. Or, if rolling the cot on a smooth, flat surface, unfold the lead handle and pull the cot.
4. **Assisting Operator:** Position yourself at either the head-end of the cot (grasping the drop frame) or at the side of the cot near the patient's torso (grasping the main frame, Figure 23). Attend the patient and assist in rolling and steering the cot.



WARNING

Rolling the cot sideways or in a loading position can cause the cot to tip and injure the patient or operators. Roll the cot only in a level (rolling) position and with the head-end or foot-end first.

Important

Roll the cot downhill foot-end first. If it is not medically appropriate to do this, roll the cot head-end first, but do the following:

To maintain cot balance while rolling the cot downhill head-end first, the Assisting Operator must exert upward force on the drop frame.

6.7 Preparing to Load the Cot

1. Raise the ambulance folding bumper, if present.
2. Place the cot in a loading position (see *Cot Positions*, page 8) and extend the drop frame.
3. If the cot is equipped with a lower tray, remove items from the tray before loading the cot into the ambulance.
4. Roll the cot to the patient compartment door.

Note: Use additional help as needed when working with heavy loads (patient and equipment). See *Using Additional Help*, page 25.

Important

If the ambulance is parked on an uneven surface, the operators (and any helpers) may need to lift the cot higher than normal to unlock the undercarriage.

Important

Loose items and debris on the patient compartment floor can interfere with the operation of the cot with the fastener. Keep the patient compartment floor clear.

6.8 Loading the Cot

Loading the cot with a patient on it requires a minimum of two trained operators working together.

1. **Both Operators:** Roll the cot forward until both loading wheels are on the patient compartment floor and either:
 - the safety bar passes the safety hook (Figure 23).

OR

 - the head-end loading post passes the safety stop on the Stat Trac fastener (Figure 24).
2. **Control Operator:** Lift the foot end of the cot until it is level with the ambulance floor (Figure 25).
3. **Control Operator:** Squeeze and hold the undercarriage control handle and tell the Assisting Operator to lift the undercarriage.
4. **Assisting Operator:** Grasp the undercarriage grip (Figure 25). When the Control Operator communicates that he/she is ready, lift the undercarriage all the way up and hold it in the folded position (Figure 26, page 23).
5. **Control Operator:** Let go of the undercarriage control handle to lock the undercarriage in the folded position. Push the cot into the ambulance.
6. **Assisting Operator:** Assist the Control Operator as necessary. Release your grip on the undercarriage after all of the cot's wheels are inside the ambulance.
7. **Either Operator:** Secure the cot in the cot fastener.



Figure 23 - Safety Bar Past Safety Hook



Figure 24 - Loading Post Past Safety Stop



Figure 25 - Loading and Unloading the Cot

6.9 Unloading the Cot

Unloading the cot with a patient on it requires a minimum of two trained operators working together.

1. Raise the folding bumper, if present.
2. Release the cot from the cot fastener.
3. **Control Operator:** Grasp the main frame or lift frame at the foot end of the cot and squeeze the undercarriage control handle.
4. **Control Operator:** Keeping the foot end raised and level with the ambulance floor (Figure 26), pull the cot slowly from the ambulance until the cot is stopped by either the safety hook or the safety stop.

Assisting Operator: As the cot is pulled from the ambulance, grasp the undercarriage hand grip and lower the undercarriage to the ground (Figure 25, page 22).

5. **Control Operator:** Let go of the control handle.
6. **Control Operator:** Lift the cot until all four transport wheels are off the ground to verify that the undercarriage has unfolded completely and is locked, then set the cot on the ground.
7. **Assisting Operator:** Use the fastener release lever or handle to disengage the cot from the fastener (Figure 27 or Figure 28).
8. **Both Operators:** Roll the cot completely out of the ambulance. As the cot is rolled away from the safety hook or safety stop, the Assisting Operator lets go of the release lever or handle.
9. **Both Operators:** Place the cot in a rolling position (See *Cot Positions*, page 8).

Important

Verify that the undercarriage is locked before operating the fastener release lever or release handle. An unlocked undercarriage will allow the cot to fold.

Important

If the ambulance is parked on an uneven surface, the operators and any helpers may need to lift the cot higher than normal to allow the undercarriage to lock.

Important

Loose items and debris on the patient compartment floor can interfere with the operation of the cot with the fastener. Keep the patient compartment floor clear.



Figure 26 - Loading and Unloading the Cot



Figure 27 - Disengage the Cot From the Safety Hook

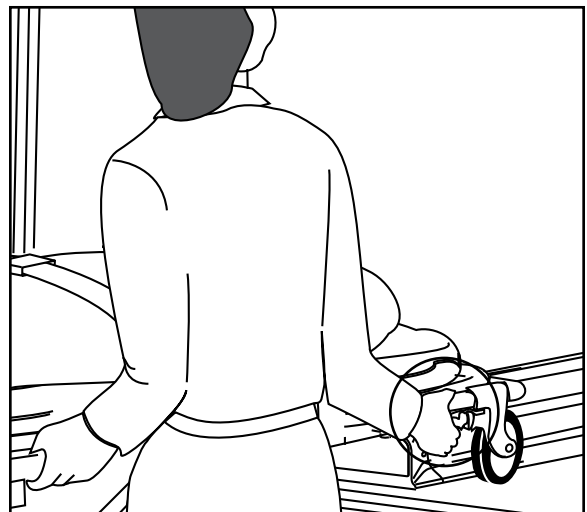


Figure 28 - Disengage the Cot from the Stat Trac®

6.10 One Operator, Empty Cot

CHANGING POSITIONS

When the cot is empty (no patient), one operator can change the cot position. Tip the empty cot onto its loading wheels, squeeze the control handle and raise or lower the cot to the desired position. Then, let go of the control handle and return the cot to its transport wheels.

ONE OPERATOR LOADING AND UNLOADING

If local protocols permit, an empty Model 175-compatible cot may be loaded into and unloaded from the ambulance by one trained operator.

Do not load or unload a Stat Trac®-compatible cot with one operator as this can damage the cot and/or the fastener. Always use two operators to load and unload the 35A-ST or 35A+ST cot.

To load the cot:

1. Raise the ambulance folding bumper, if present.
2. Place the cot in a loading position and roll the cot into the ambulance until both loading wheels are on the patient compartment floor and the safety bar passes the safety hook.
3. Lift the cot until the wheels are off the ground, squeeze and hold the undercarriage control handle, and lower the foot end of the cot to the ground (Figure 29).
4. Release the control handle to allow the undercarriage to lock.
5. Grasp the undercarriage frame with one hand and pull the undercarriage upward against the main frame to verify that the cot has locked in the folded position (Figure 30).
6. Lift the foot end of the cot until it is level with the patient compartment floor (Figure 31). Push the cot into the ambulance.
7. Secure the cot in the cot fastener.

To unload the cot:

1. Raise the ambulance folding bumper, if present, and release the cot from the cot fastener.
2. Begin pulling the cot from the ambulance but do not operate the control handle. Continue pulling until the safety hook catches the safety bar (Figure 31).
3. Lower the cot foot end to the ground (Figure 29).
4. Squeeze the undercarriage control handle and raise the foot end until the cot wheels are off the ground and the undercarriage unfolds completely and locks.
5. Release the control handle and set the cot on the ground.
6. Disengage the safety bar from the safety hook and roll the cot away from the ambulance.

Important

Do not load or unload a Stat Trac®-compatible cot with one operator as this can damage the cot or fastener.



Figure 29 - One Operator Loading



Figure 30 - Checking the Undercarriage



Figure 31 - Cot Level With Ambulance Floor

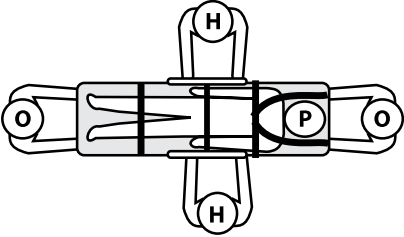
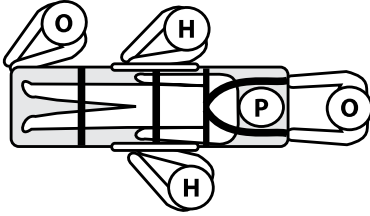
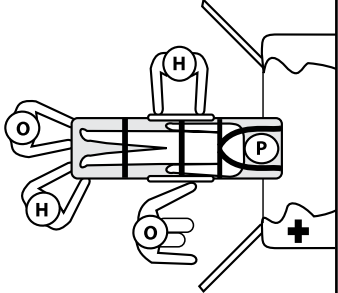
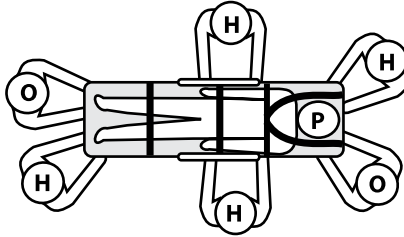
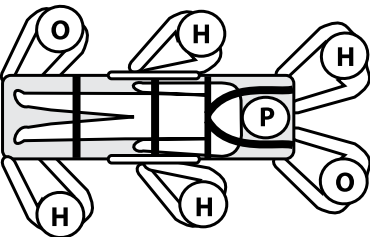
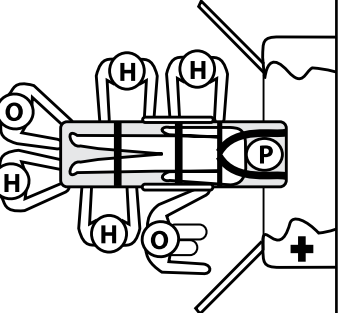
6.11 Using Additional Help

Operating the cot requires a minimum of two trained operators. They may need additional help when working with heavy loads (patient plus equipment).

- Operators stand at the head and foot ends of the cot, maintain control of the cot, operate the controls, and direct all helpers.

- Side helpers may need to walk sideways under some circumstances. Follow local protocols.
- Ferno recommends that helpers work in pairs to help maintain cot balance.

The chart below shows suggested placement for operators and helpers.

| Helpers | Changing Levels | Rolling | Loading/Unloading |
|------------------------------|--|---|--|
| Two Operators + Two Helpers |  |  |  |
| Two Operators + Four Helpers |  |  |  |

Key: O = Operator H = Helper P = Patient

WARNING

Helpers can cause injury. Maintain control of the cot, operate the controls, and direct all helpers.

Helpers can be injured. Show helpers where to grasp the cot to avoid pinch points.



Load Capacity

Inspect the cot if the load capacity has been exceeded. See *Inspecting the Cot*, page 27).

7 - MAINTENANCE

7.1 Maintenance Schedule

The cot requires regular maintenance. Set up and follow a maintenance schedule. The table at right represents minimum intervals for maintenance.

Keep maintenance records. A sample maintenance record sheet is provided on page 31.

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 Customer Relations (page 2).

7.2 Disinfecting and Cleaning the Restraints

Remove the restraints from the cot. Disinfect and clean only as directed in the restraint users' manuals provided with the restraints. Additional, free users' manuals can be obtained from Ferno Customer Relations (page 2).

7.3 Disinfecting and Cleaning the Mattress

1. Remove the mattress from the cot.
2. **To disinfect:** Apply disinfectant to the mattress, following the disinfectant manufacturer's instructions for application method and contact time.
3. **To clean:** Wash the mattress with warm, soapy water and a soft cloth. Rinse the mattress with clear water. Hang the mattress to dry, or dry it with a towel.

Note: To prevent exposure to bloodborne disease, remove the mattress from service if it becomes ripped or torn.

7.4 Disinfecting the Cot

Wipe all surfaces with disinfectant. Follow the disinfectant manufacturer's instructions for application method and contact time. Ferno recommends you inspect the cot for damage as you disinfect it.

7.5 Cleaning the Cot

1. Remove the restraints, mattress and any accessories.
2. Hand clean all surfaces of the cot with warm water and a mild detergent.
3. Rinse with warm, clear water. Dry the cot with a towel or allow it to air-dry.



WARNING

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

| Minimum Maintenance Intervals | Each Use | As Needed | Each Month |
|---------------------------------|----------|-----------|------------|
| Disinfecting (this page) | • | | |
| Cleaning (this page) | | • | |
| Waxing (page 27) | | • | |
| Inspecting (page 27) | | • | • |
| Lubricating (page 28) | | • | |

Important

Disinfectants and cleaners containing bleach, phenolics, or iodines can cause damage. Do not use products containing these chemicals.

Important

Water under high pressure, or steam, can penetrate joints, flush away lubricant, and cause corrosion. Use caution when cleaning moving parts such as joints and hinges, and reapply lubricant if needed (see page 28).

Important

Using abrasive cleaning compounds or applicators on the cot can cause damage. Do not use abrasive materials to clean the cot.

7.6 Waxing the Cot

While it is not necessary to wax this cot, waxing the aluminum main frame or legs will not damage them, and will help maintain the cot's appearance.

Disinfect and clean the cot before applying wax. Use an automotive wax as directed by the wax manufacturer.

7.7 Inspecting the Cot

Have your service's equipment maintenance personnel inspect the cot regularly. Follow the checklist at right and operate the cot through all its functions as described in this manual.

If inspection shows damage or excessive wear, remove the cot from service until repair is made. See *Parts and Service*, pages 29 and 30.

INSPECTION CHECKLIST

- Are all components present?
- Is the cot 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 cot lock properly into each position?
- Does the cot load and unload properly?
- **35A, 35A+:** Does the safety hook engage the safety bar?
- **35A-ST, 35A+ST:** Does the Stat Trac® safety stop properly engage the head-end loading post during unloading?
- Does the cot roll smoothly?
- Do the wheels show signs of excessive wear?
- On equipped cots, do the wheel locks engage properly?
- Are the restraints properly installed?
- Is restraint webbing in good condition with no cuts or frayed edges?
- Are restraint buckles free of visible damage and do they operate properly?
- Is the ambulance properly prepared for the cot with an approved Ferno® cot fastener installed (and safety hook for Models 35A and 35A+)?
- Do installed accessories operate properly without interfering with cot operation?

7.8 Lubricating the Cot







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

LUBRICATION POINTS

Use a small amount of lubricant (1-2 drops)
Lubricate identical points on each side of the cot

| | |
|---|--|
| 1. Sidearm Pins | WRL-191S, E-Z-1, SAE 30-weight oil |
| 2. Drop-Frame Hinges | WRL-191S, E-Z-1, or white lithium grease |
| 3. Loading Wheel Bearings | WRL-191S, E-Z-1, SAE 30-weight oil |
| ** Transport Wheels (only cots before S/N L-322137) | WRL-191S, SAE 30-weight oil |

LUBRICATION-FREE ITEMS

| | |
|--|------------------|
|  Transport Wheels | Do not lubricate |
|  Center Leg Crosstube | Do not lubricate |
|  Backrest Hinge | Do not lubricate |
|  Shock Frame Hinge | Do not lubricate |
|  Control Mechanisms | Do not lubricate |
|  Telescoping Leg | Do not lubricate |

Important

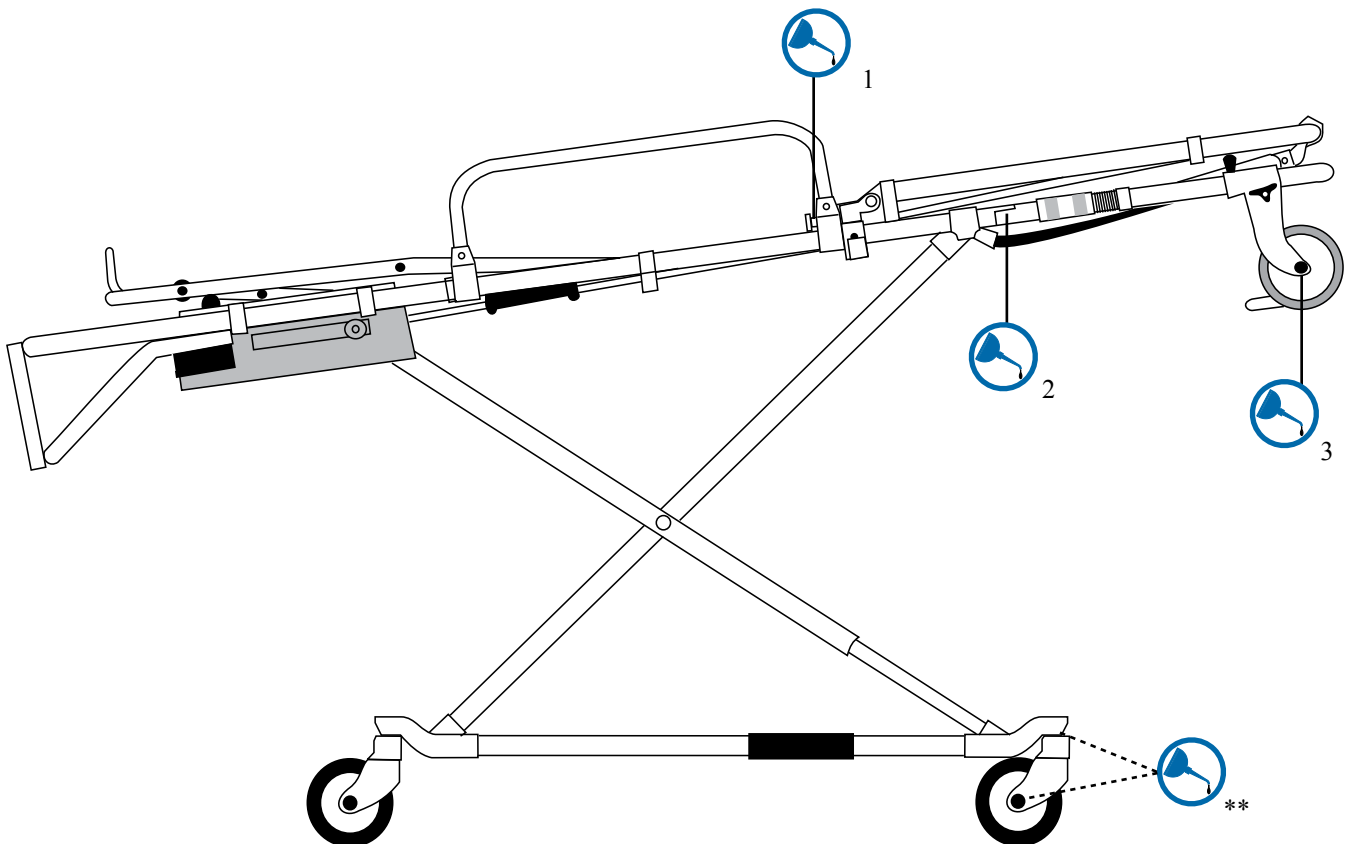
Lubricating parts that should not be lubricated allows dirt and foreign particles to collect on those parts, resulting in damage. Lubricate **only** the numbered reference points shown.



Do Not Lubricate



Lubricate



**** Cot Serial Numbers Before L-322137:**
Lubricate wheel bearings and wheel shanks
with WRL-191S or SAE 30-weight oil

8 - ACCESSORIES AND RELATED PRODUCTS

Ferno offers a full line of emergency medical service accessories (fasteners, IV poles, immobilizers, blankets, etc.). Selected items approved for use with the cot are listed below.

Follow all instructions packed with accessories. Keep the instructions with this manual. When using accessories, be aware of any special considerations such as doorway heights and widths, etc. Contact Ferno Customer Relations (page 2) or your Ferno distributor for product information.

RESTRAINTS

| Description | Part Number |
|--|-------------|
| 417-1 Harness restraint (maroon) | 031-3896 |
| 417-1 Harness restraint (orange) | 031-3914 |
| 417-1 Harness restraint (black) | 031-3915 |
| 430 Restraint, 2-piece, 5 ft. (1.5 m) maroon | 031-3890 |
| 430 Restraint, 2-piece, 5 ft. (1.5 m) orange | 031-3891 |
| 430 Restraint, 2-piece, 5 ft. (1.5 m) black | 031-3892 |
| 430 Restraint, 2-piece, 7 ft. (2.1 m) maroon | 031-3913 |
| 430 Restraint, 2-piece, 7 ft. (2.1 m) orange | 031-3912 |
| 430 Restraint, 2-piece, 7 ft. (2.1 m) black | 031-3911 |



WARNING

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

MATTRESSES

| Description | Part Number |
|---------------------------------|-------------|
| 460 Bolster Mattress (orange) | 031-2720 |
| 460 Bolster Mattress (burgundy) | 031-3063 |
| 360 Flat Mattress (orange) | 031-3691 |
| 360 Flat Mattress (burgundy) | 031-3692 |

ACCESSORIES

| | |
|--|----------|
| 513-10 IV Pole | 008-7156 |
| 513-13 IV Pole | 008-7172 |
| 255 StoNet™ (drop-frame storage net/pouches) | 081-9503 |
| 274 Pac Rac™ equipment shelf | 081-8933 |
| 678 Pedi-Mate® Child Restraint | 031-3778 |
| One-hand sidearm release handle (1 only) | 090-5596 |
| 514 Oxy Clip (side mount) holder | 008-5500 |
| 35 Series (foot-end) oxygen cylinder holder | 081-9761 |

9 - PARTS AND SERVICE

9.1 U.S.A. and Canada

In the United States and Canada, to order parts or for professional cot repair, contact EMSAR®, the only agent authorized by Ferno to manage, service, and repair Ferno products.

| | |
|-----------------------|-----------------|
| Telephone (Toll-Free) | 1.800.73.EMSAR |
| Telephone | 1.937.383.1052 |
| Fax | +1.937.383.1051 |
| Internet | www.EMSAR.com |

9.2 Worldwide

To order Ferno parts, and for professional cot repair, contact your Ferno distributor. Your distributor is the only agent authorized 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 cot.

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

9.3 Selected Parts for Cots Before Serial Number L-322137

| Kit | Description | Qty |
|-----|-------------|-----|
|-----|-------------|-----|

WHEEL KITS

5" Locking Wheel with Tread

| | | |
|----------|--|---|
| 090-0081 | 5" Locking swivel caster assembly complete | 1 |
| 090-0061 | 5" Locking wheel with 5/16" bearings | 1 |
| 090-4278 | 5/16" Bearings (only) | 2 |
| 090-4122 | 5" Wheel round shank pin and nut | 1 |
| 090-1259 | Wheel fork bearings (1/2") | 2 |
| 090-3335 | Locking wheel axle bolt and nut | 1 |

5" Non-Locking Wheel with Tread

| | | |
|----------|---|---|
| 090-0080 | 5" Swivel caster assembly complete | 1 |
| 090-0060 | 5" Wheel with 3/8" bearings, axle bolt, nut | 1 |
| 090-1266 | 3/8" Bearings (only) | 2 |
| 090-0180 | 5" Wheel Axle bolt and nut | 1 |
| 090-4122 | 5" Wheel shank pin and nut | 1 |
| 090-1259 | Wheel fork bearings (1/2") | 2 |
| 090-5522 | Conversion Kit to 5" Ultra Glide wheel, axle, nut, washer | 1 |

OTHER KITS

| | | |
|----------|--|---|
| 090-1258 | Manual backrest handle with hardware | 1 |
| 090-2948 | Manual backrest V-spring | 1 |
| 090-3077 | Manual backrest pin | 1 |
| 090-4061 | Release handle, foot-end upper | 1 |
| 090-4062 | Release handle, side | 1 |
| 090-4063 | Release handle, foot-end lower | 1 |
| 090-4064 | Ratchet bar return spring | 2 |
| 090-4767 | Safety bar release handle (long metal lever) | 1 |
| 090-5532 | Slide cover (right) | 1 |
| 090-5533 | Slide cover (left) | 1 |
| 190-1228 | Center X-frame axle rod with cover | 1 |

9.4 Parts for Cots Serial Number L-322137 and Higher

Note: This list of kits is for use with all cots with serial numbers L-322137 or higher or having serial numbers beginning with a two-digit year code (e.g. "07-").

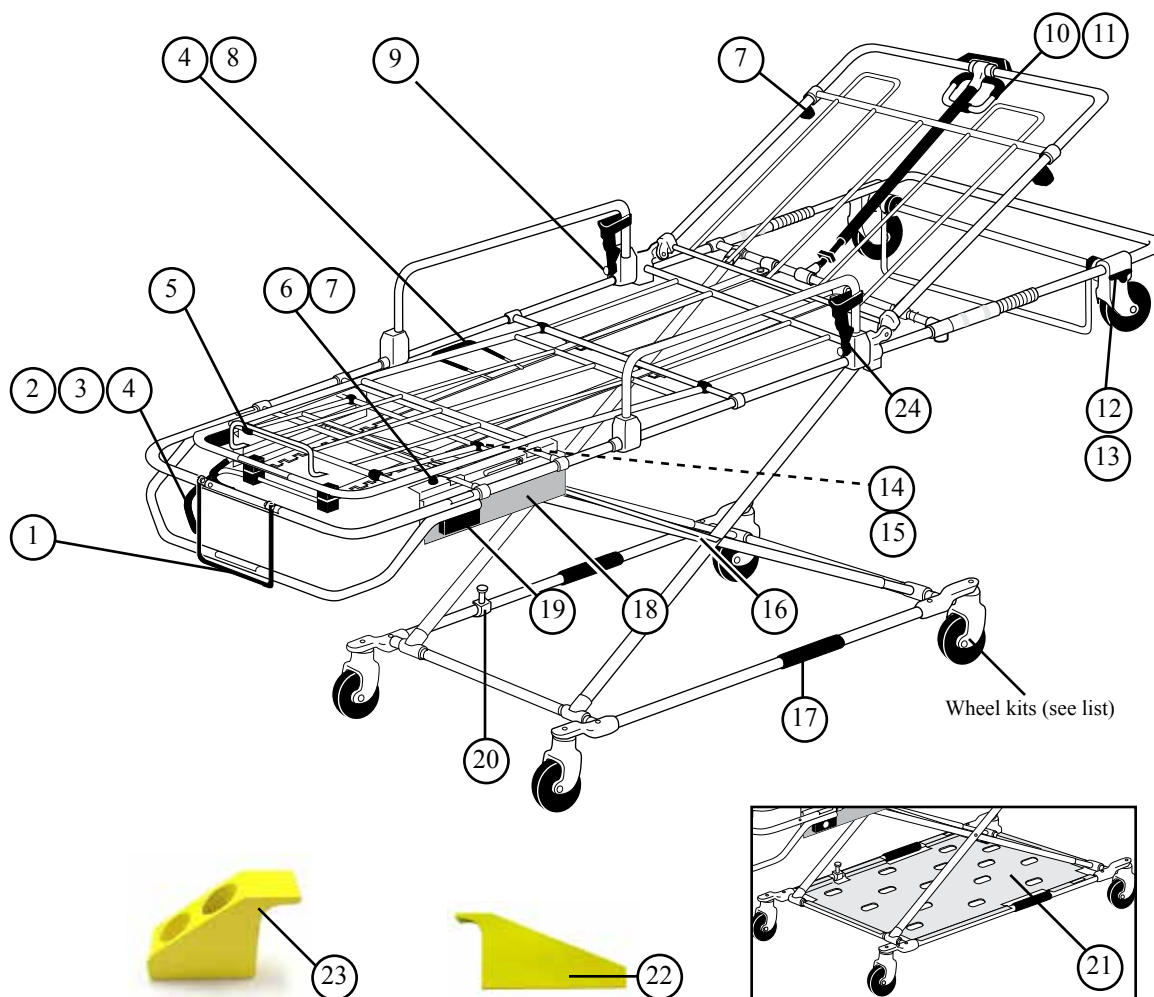
| No. | Part | Description | Qty |
|-----|----------|---|----------|
| 1 | 090-5616 | Lead handle | 1 |
| 2 | 090-5325 | Control handles (foot end) w/hardware | Set of 2 |
| 3 | 190-1259 | Control handles (foot end) hardware only | 1 |
| 4 | 090-5332 | Control handle grips | Set of 3 |
| 5 | 190-1365 | Shock frame thumb-release lever | 2 |
| 6 | 090-5415 | Bumpers (shock frame only) | 2 |
| 7 | 090-5331 | Bumpers (shock frame and backrest) w/hardware | Set of 4 |
| 8 | 090-5330 | Control handle (side) w/hardware | 1 |
| 9 | 090-0032 | Sidearm pin w/knob and spring | 1 |
| 10 | 090-5398 | Backrest control handle (red) | 1 |
| 11 | 090-5588 | Backrest gas spring and handle | 1 |
| 12 | 090-5333 | Safety bar release handles (red) | 2 |
| 13 | 090-5465 | Safety bar torsion spring | 2 |
| 14 | 190-1019 | Ratchet bar mechanism set of plastic slide bearings | 4 |
| 15 | 090-5326 | Ratchet return spring | 2 |
| 16 | 090-5527 | Center X-frame axle rod with cover | 1 |

| No. | Part | Description | Qty |
|-----|----------|--|-----|
| 17 | 190-1239 | Lower-frame grip (stick-on style) | 2 |
| 18 | 090-5329 | Slide cover (finger guard) w/hardware | 2 |
| 19 | 090-5327 | Lower lift bar block, hardware | 2 |
| 20 | 090-0277 | Fastener post for Model 175 | 1 |
| 21 | 090-5471 | Metal lower storage tray (burgundy) | 1 |
| | 090-5472 | Metal lower storage tray (unpainted) | 1 |
| 22 | 090-1308 | 4" (102 mm) Safety hook (standard) | 1 |
| 23 | 090-5015 | 2.5" (64 mm) Safety hook* | 1 |
| 24 | 090-5596 | Sidearm release handle | 1 |
| n/s | 190-1791 | 35A Labels | Set |
| n/s | 190-1026 | Stat Trac-compatible cot head-end loading post ring with set screw | 1 |

WHEEL KITS

| | | |
|----------|---|---|
| 090-5522 | 5" Ultra Glide wheel, axle, nut, washer | 1 |
| 090-5656 | 5" Transport wheel only | 1 |
| 090-4054 | 5" Loading wheel w/bushing | 1 |
| 190-1020 | 5" Caster w/tapered pin and wheel lock | 1 |
| 190-1793 | Caster complete, w/bolt | 1 |
| 090-1259 | Swivel wheel shank bearings (1/2") | 2 |
| 090-5336 | 5" Wheel shank w/tapered pin and screw | 1 |
| 190-1792 | Pin for tapered shank w/nut | 1 |

*The 2.5" (64 cm) safety hook is for ambulances without a folding bumper.
n/s = Not Shown



TRAINING RECORD

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MAINTENANCE RECORD

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