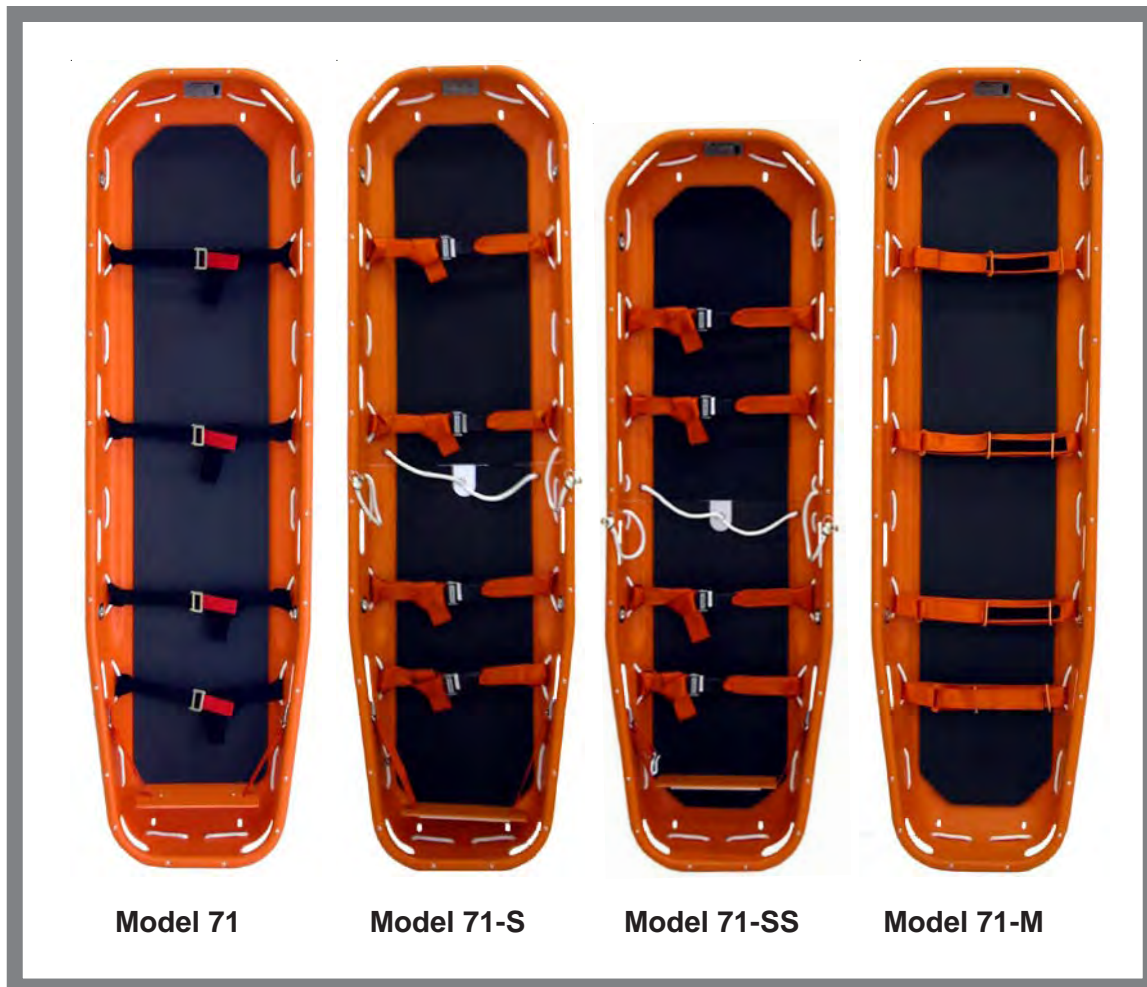


***Users' Manual***



**Model 71 Series  
Basket Stretchers**

*July 2007 GLO*

*Pub. No. 234-0237-04*

**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 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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# 1 - SAFETY INFORMATION

## 1.1 Warnings

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 stretcher.**

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

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

**Helpers can cause injury or be injured. Maintain control of the stretcher and direct all helpers.**

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

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

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

## 1.2 Important

Important notices emphasize important usage or maintenance information.

### **Important**

Rescue procedures using ropes, harnesses, lifting bridles (spiders), and other specialized gear are considered technical in nature. They are potentially hazardous activities and require special skills. No rescue personnel should attempt technical rescue procedures unless they have received professional instruction and training.

## 1.3 Bloodborne Disease Notice

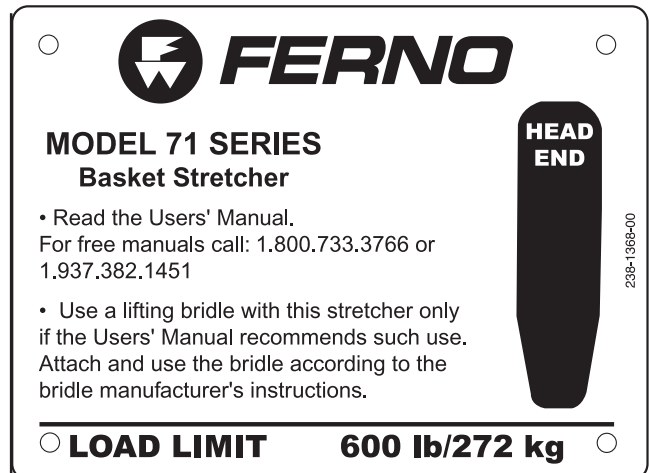
To reduce the risk of exposure to bloodborne diseases such as HIV-1 and hepatitis when using the stretcher, follow the disinfecting and cleaning instructions in this manual.

## 1.4 Safety and Instruction Label

The safety and instruction label places important information from the users' manual on the stretcher.

Read and follow label instructions. Replace the label immediately if it becomes worn or damaged. New labels are available from EMSAR, page 23, or your distributor.

The label below is affixed inside the head end of the stretcher.



## 1.5 Symbol Glossary

The symbols defined below appear 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 for Potential Injury



Use Two Trained Operators (Minimum)



The Stretcher's Load Limit is 600 lb (272 kg)



Read the Users' Manual for Operating and Safety Information

## 2 - OPERATOR SKILLS AND TRAINING

### 2.1 Skills

Operators using the stretcher need:

- a working knowledge of emergency patient-handling procedures.
- the ability to assist the patient.
- a complete understanding of the procedures described in this manual.

### 2.2 Training

Trainees need to:

- follow a training program designed by their training officer.
- read this manual. For additional free users' manuals, contact your Ferno distributor or Ferno Customer Relations (page 25).
- practice with the stretcher before using it in regular service.
- be tested on their understanding of the stretcher.
- record their training information. A sample training record sheet is provided on page 26.

#### Important

Rescue procedures using ropes, harnesses, lifting bridles (spiders), and other specialized gear are considered technical in nature. They are potentially hazardous activities and require special skills. No rescue personnel should attempt technical rescue procedures unless they have received professional instruction and training.

#### **WARNING**

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

### 3 - ABOUT THE STRETCHER

#### 3.1 Stretcher Description

The Model 71 Series Basket Stretchers (called the stretcher or stretchers in this manual) are emergency patient-handling devices designed to transport patients to conventional cots or stretchers from areas that are difficult to access.

The stretchers are for professional use only. A minimum of two trained operators is required to carry a stretcher. Additional help may be needed for heavy loads.

There are four basket stretcher models in the 71 Series. The Model 71 is the series' standard basket stretcher. The Model 71-S splits in two pieces for compact storage or nested backpacking to a rescue site. The Model 71-SS is a shortened version of the 71-S. The Model 71-M is suitable for certain industrial and mining environments where the use of metal is undesirable.

For details about individual models, see the General Specifications and Model Features charts on this page and page 8.

 **WARNING**

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



Stretcher Use Requires Two Trained Operators



Read the Users' Manual

#### 3.2 General Specifications

	<b>STRETCHER MODEL</b>			
	<b>71</b>	<b>71-S</b>	<b>71-SS</b>	<b>71-M</b>
<b>Length</b>	86 in/218 cm	86 in/218 cm	79 in/200 cm	86 in/218 cm
<b>Width</b>	24 in/61 cm	24 in/61 cm	24 in/61 cm	24 in/61 cm
<b>Depth</b>	8 in/19 cm	8 in/19 cm	8 in/19 cm	9 in/25 cm
<b>Weight*</b>	23 lb/10 kg	24 lb/11 kg	22 lb/10 kg	28 lb/13 kg
<b>Load Limit**</b>	600 lb/272 kg	600 lb/272 kg	600 lb/272 kg	600 lb/272 kg
<b>Temperature</b>	-40°F to 140°F	-40°F to 140°F	-40°F to 140°F	-40°F to 140°F
	-40°C to 60°C	-40°C to 60°C	-40°C to 60°C	-40°C to 60°C


\* Without foot plate and restraints.

\*\* The load limit includes the combined weight of the stretcher, patient, life-support equipment, and, in some rescue situations, the rescuer.

General specifications are rounded to the nearest whole number. Metric conversions are calculated before rounding the Imperial measurements. For more information, contact Ferno Customer Relations (page 25) or your Ferno distributor.

Ferno reserves the right to change specifications without notice.

**LOAD LIMIT**



Inspect the stretcher if the load limit has been exceeded (see *Inspecting the Stretcher*, page 23).

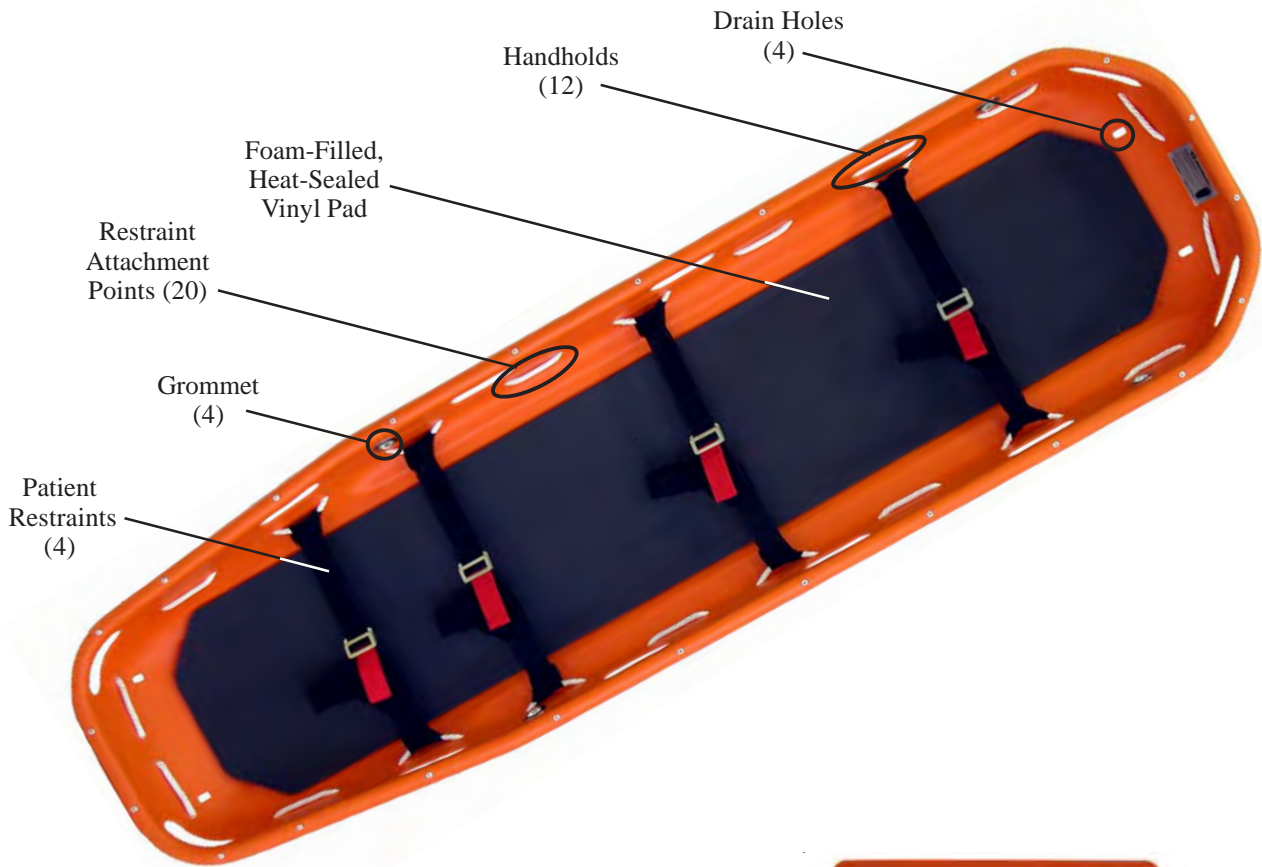
### 3.3 Model Features

FEATURE	STRETCHER MODEL			
	71	71-S	71-SS	71-M
High-density polyethylene shell	X	X	X	X
Molded runners	X	X	X	
Wooden Runners				X
Heavy-duty aluminum frame	X	X	X	
Heavy-duty aluminum frame, vinyl coated and attached with plastic rivets				X
Tapered foot end	X	X	X	X
12 handholds	X	X	X	X
Splits in half and nests for storage and backpacking		X	X	
Pre-rigged nylon rope for attaching restraints	X	X	X	X
Easily-replaceable foam-filled, heat-sealed vinyl pad	X	X	X	X
Accommodates standard 18" tapered-style long backboard	X	X	X	X
Foot plate with strap and hooks	X	X	X	
Four brass grommets for attaching carabiners or ropes.	X	X	X	
Set of 4 restraints with metal buckles	X	X	X	
Set of 4 restraints with hook-and-loop closures				X

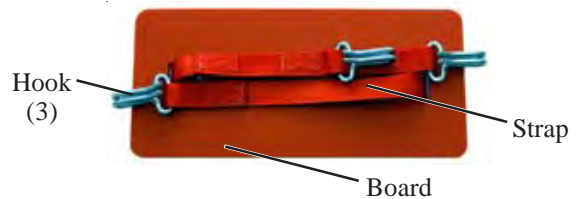


### 3.4 Components - Model 71

**HEAD END**




**FOOT END**



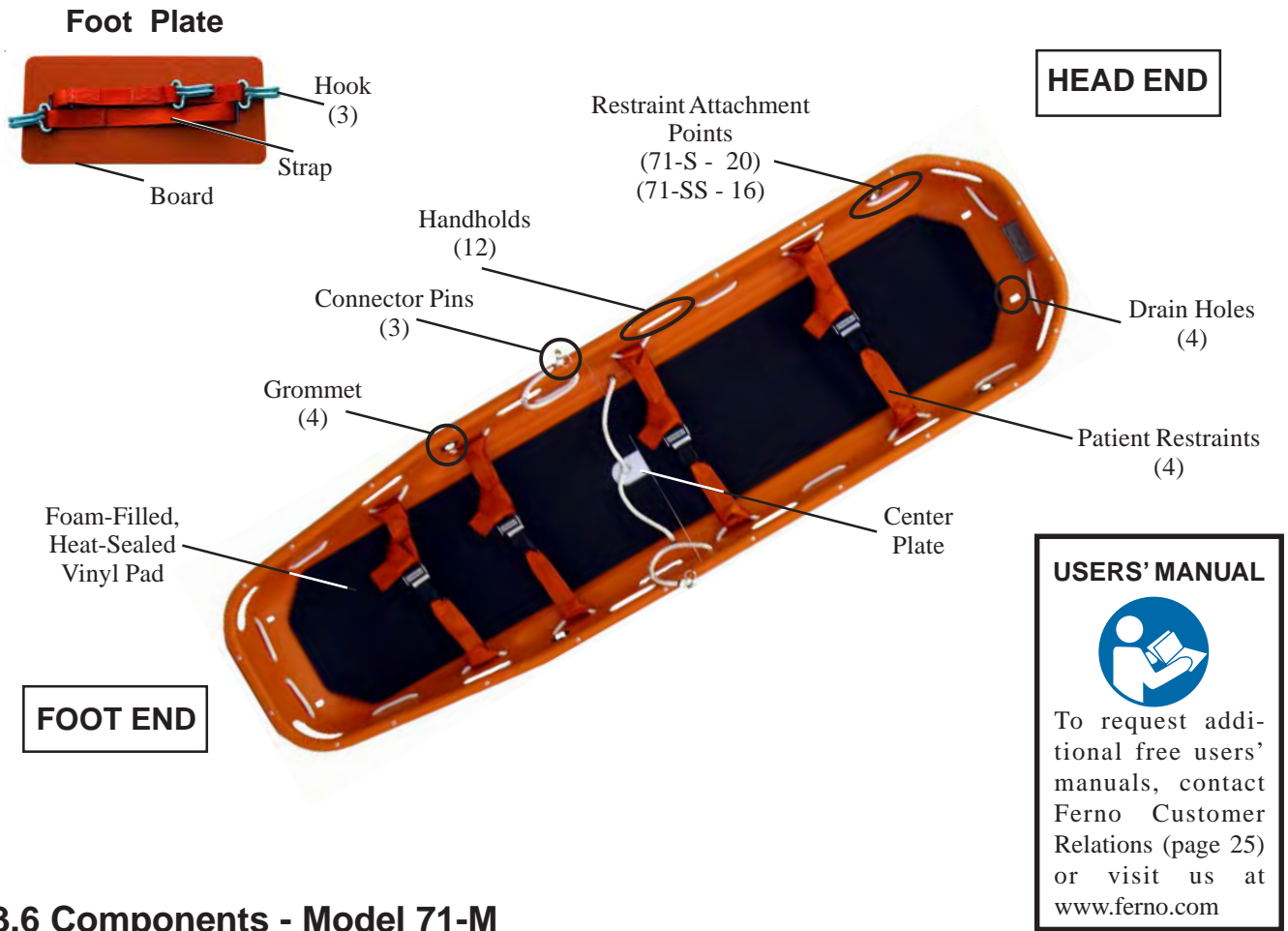
**Foot Plate**  
(not to scale)

**USERS' MANUAL**

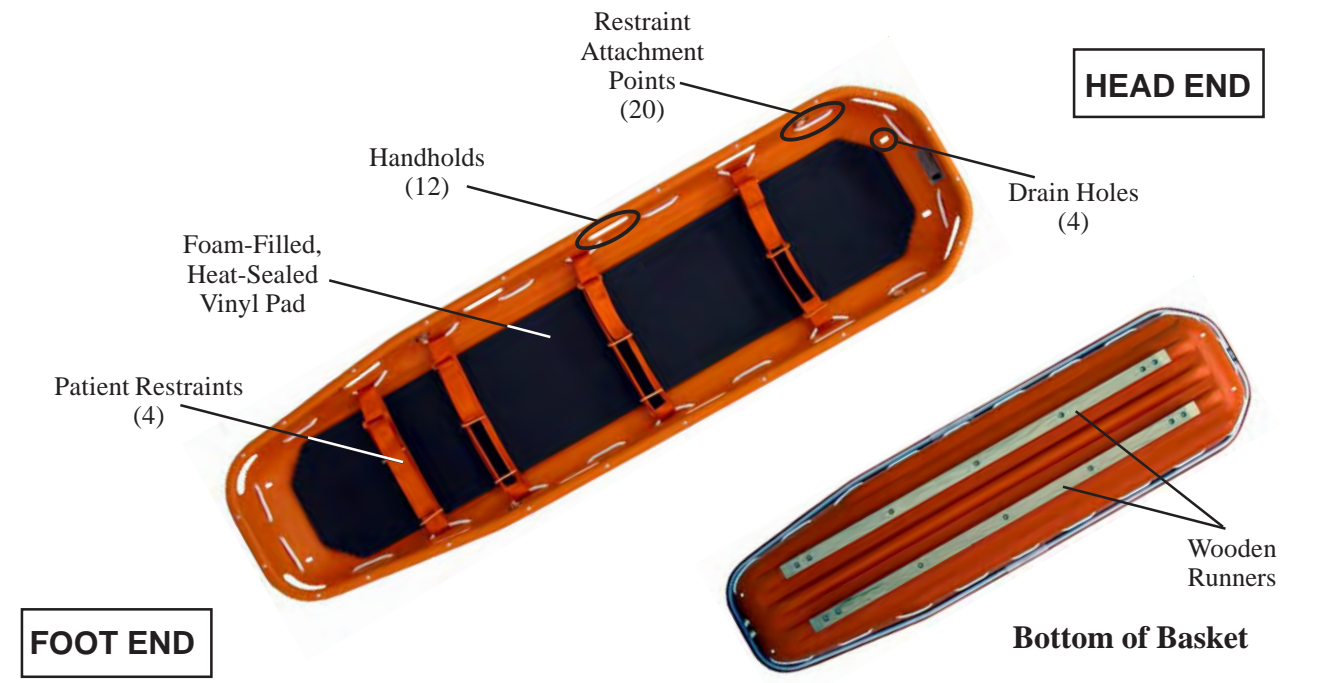


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### 3.5 Components - Models 71-S and 71-SS



### 3.6 Components - Model 71-M



## 4 - SETTING UP THE STRETCHER

### 4.1 Assembling the Model 71-S and Model 71-SS Stretchers

The Models 71-S and 71-SS are two-piece stretchers. The head- and foot-end halves can be separated and nested for storage or for backpacking to a rescue scene (Figure 1).

#### To join the stretcher halves:

1. Slide the three projecting metal splices on the head-end half of the stretcher into their corresponding sleeves on the foot-end half (Figure 2).
2. Push the two halves of the stretcher together firmly, aligning the connector pin holes on the splices with the corresponding holes in the center plate and in the sleeves/stretcher rim.
3. Secure the splices in the sleeves by inserting the connector pins into the holes (Figure 3).
4. Always check to make sure all three connector pins are inserted to full depth.

#### To separate the stretcher halves:

1. Remove the three connector pins from the stretcher.
2. Slide the two halves of the stretcher apart.
3. Nest the foot-end half of the stretcher inside the head-end half (Figure 1).



Figure 1 - Nested Stretcher Halves

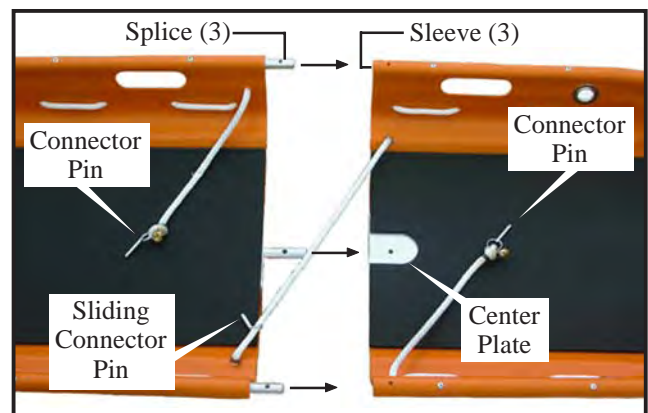


Figure 2 - Joining the Stretcher Halves

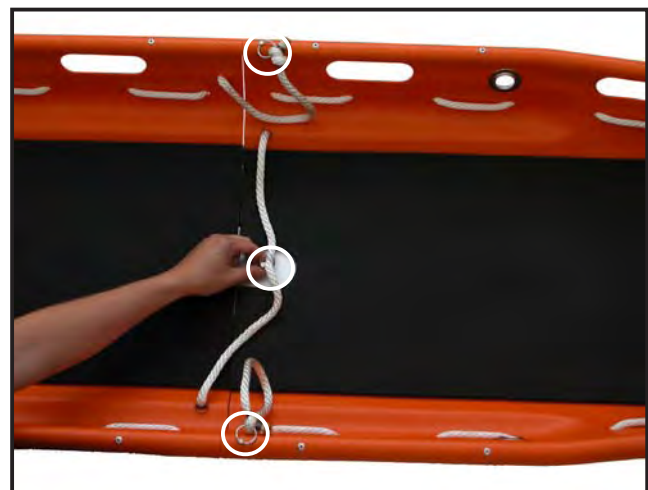


Figure 3 - Inserting the Connector Pins

## 4.2 Attaching and Adjusting the Foot Plate to Models 71, 71-S And 71-SS Stretchers

A foot plate is supplied with the Models 71, 71-S, and 71-SS stretchers.

In high angle rescue situations, or when the stretcher must be moved over uneven terrain, the foot plate is used to help keep the patient from sliding toward the foot end of the stretcher. It serves as one element of a restraint system that provides multi-directional stability for the patient.

### ATTACHING THE FOOT PLATE

The tension hooks sewn to each end of the foot plate strap (Figure 4) attach to the stretcher at the handhold openings.

To attach the foot plate:

1. One end of the foot plate strap is fitted with a single hook and the other end is fitted with two hooks. Slide the single hook onto the stretcher shell at the handhold opening closest to the patient's feet (Figure 5).
2. Attach the other end of the strap to the handhold opening on the opposite side of the stretcher (Figure 6). Choose the hook that positions the foot plate closest to the patient's feet.
3. Center the foot plate on the strap, parallel with the end of the stretcher (Figure 6). The foot plate should press firmly against the bottom of the patient's feet. It may be necessary to reposition the patient slightly to achieve this.

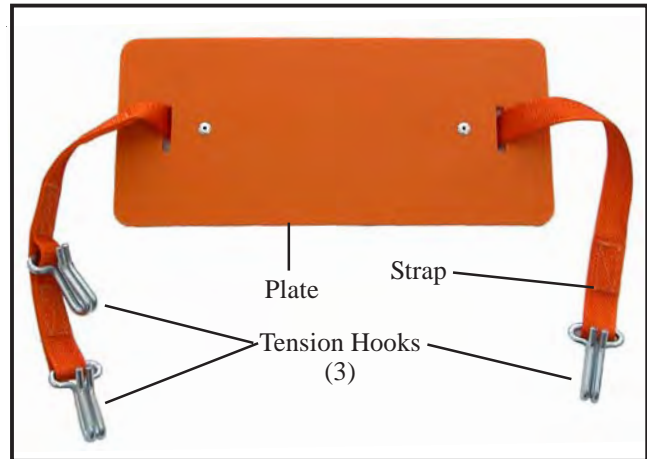


Figure 4 - Foot Plate Components



Figure 5 - Attaching a Tension Hook

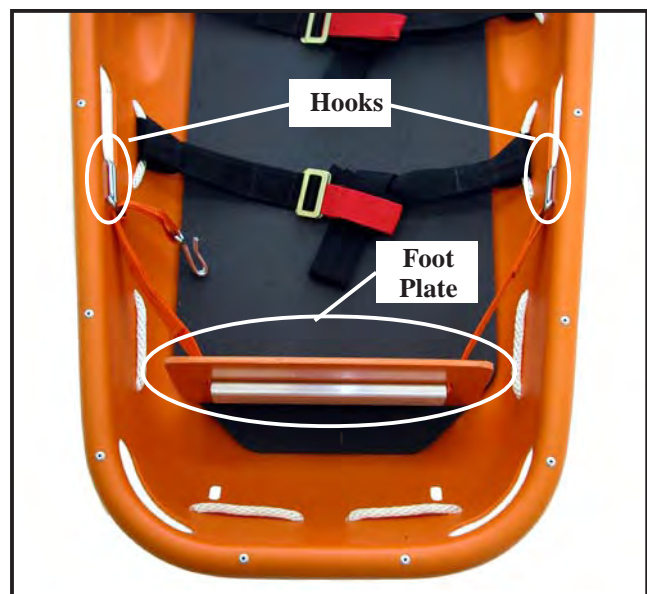


Figure 6 - Foot Plate Attached

## 5 - RESTRAINTS

### 5.1 Using Restraints with Stretcher Models 71, 71-S, and 71-SS

Four patient restraints are supplied with the stretcher. The restraints are fitted with either seat-belt style buckles or two-bar/three-bar style buckles.

Use all four supplied patient restraints to secure the patient in the stretcher. Do not use the restraints for lifting, attaching equipment to the stretcher, or other purposes.

Some rescue situations require additional restraints or a restraint system different from the one supplied. Selecting a restraint system suitable for the rescue situation and patient's condition is the responsibility of trained rescue personnel.

#### ATTACHING THE RESTRAINTS

All 71 Series stretchers are pre-rigged with nylon rope that provides attachment points for a restraint system.

Select attachment points appropriate for the rescue situation, the patient's size and condition, and the restraint system being used.

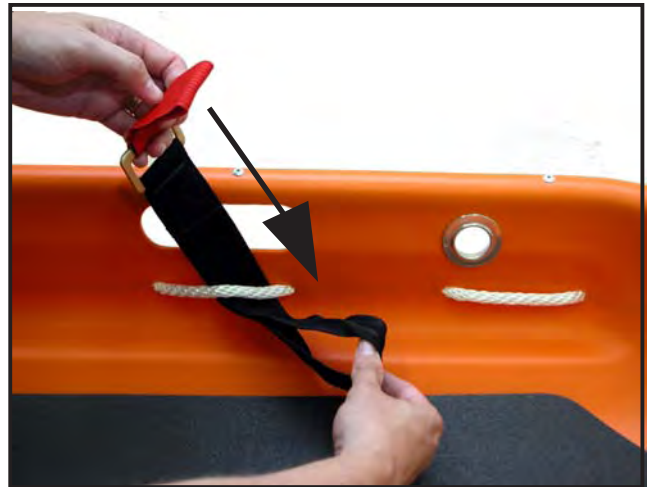
Both types of restraints supplied with the Models 71, 71-S, and 71-SS stretchers attach to the pre-rigged rope using the procedure below. (See page 16 for instructions to attach restraints supplied with the Model 71-M stretcher).

To attach the restraints:

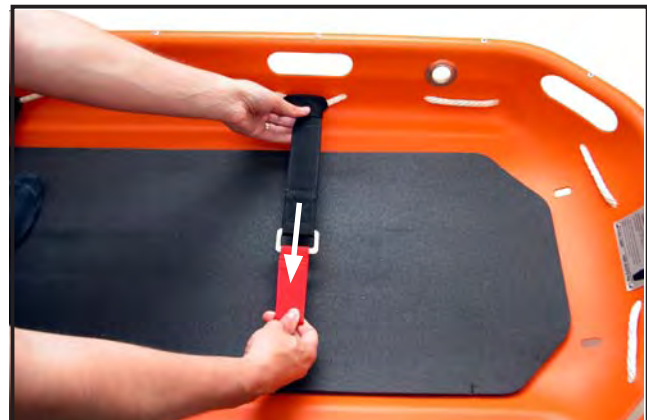
1. Unbuckle the restraint to separate the straps.
2. Pass the looped end of the strap downward between the rope and the stretcher at the selected attachment point (Figure 7).
3. Thread the buckle through the restraint loop and pull the free end until the loop is tight around the rope (Figure 8).
4. Attach the remaining strap to the corresponding attachment point on the opposite side of the stretcher.
5. Follow Steps 1-4 to attach the remaining restraints.

#### Important

Rescue situations vary and some require a restraint system different from the one supplied with the stretcher. Selecting a restraint system suitable for the rescue situation is the responsibility of trained rescue personnel.



**Figure 7 - Attaching a Restraint Strap**



**Figure 8 - Tightening the Restraint on the Rope**

## 5.2 Using the Two-Bar, Three-Bar-Style Buckles

Components of the two-bar, three-bar style buckle system are shown in Figure 9, below.

### To loosen the restraint and open the buckle:

1. Pull the red breakaway tab against the buckle (Figure 10). Continue pulling until the restraint is as loose as desired.
2. To open the buckle, first loosen the restraint as in Step 1, then turn the three-bar buckle at an angle and pass it downward through the open space in the two-bar buckle (Figure 11).

### To buckle and tighten the restraint:

1. Pass the three-bar buckle and webbing upward through the opening in the two-bar buckle (Figure 12). Make sure to pull free end of the webbing completely through the opening.
2. Pull slightly on the free end of the webbing to firmly seat the three-bar buckle on top of the two-bar buckle (Figure 13).
3. Tighten the restraint by pulling on the free end of the webbing.



Figure 10 - Loosening the Restraint

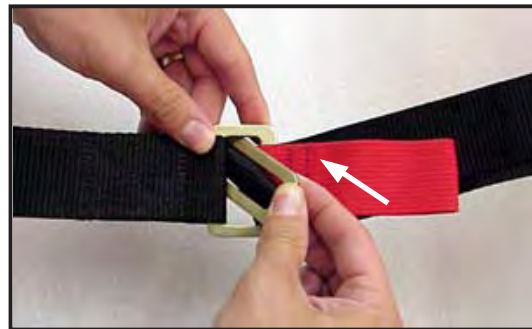


Figure 11 - Opening the Buckle

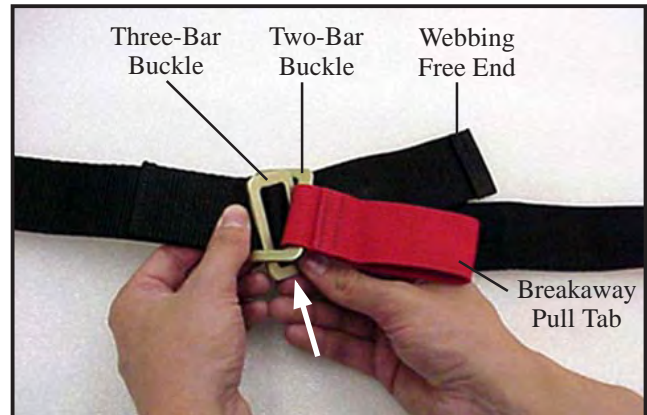


Figure 12- Closing the Buckle

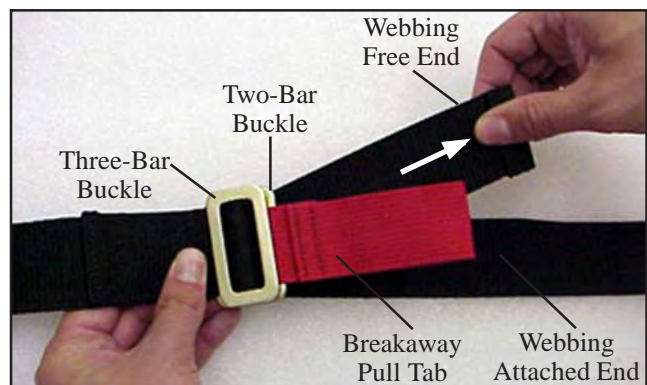


Figure 13 -Seating the Three-Bar Buckle

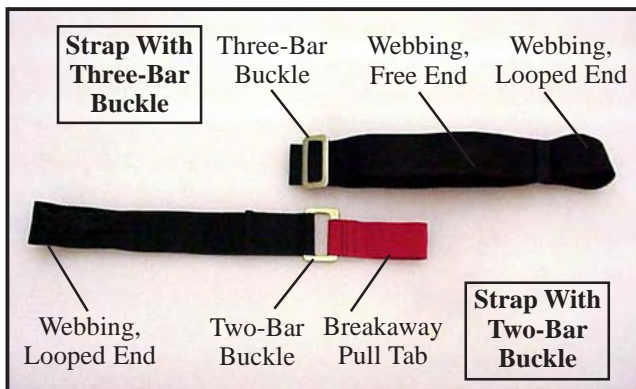


Figure 9 - Two-Bar, Three-Bar-Style Restraint Components

### 5.3 Using the Seat-Belt-Style Buckles

#### To close the buckle:

1. Slide the tang into the buckle receiver slot until the tang locks into place with an audible click. (Figure 14).
2. Always confirm that the buckle is securely fastened.

#### To open the buckle:

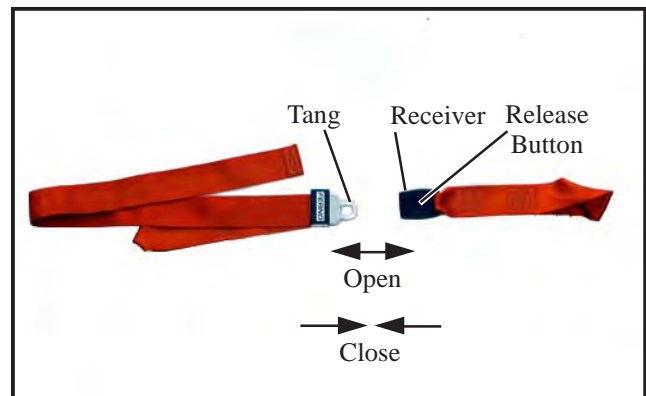
1. Press the square release button located at the center of the receiver.
2. Pull the tang out of the receiver slot (Figure 14).

#### To lengthen the restraint:

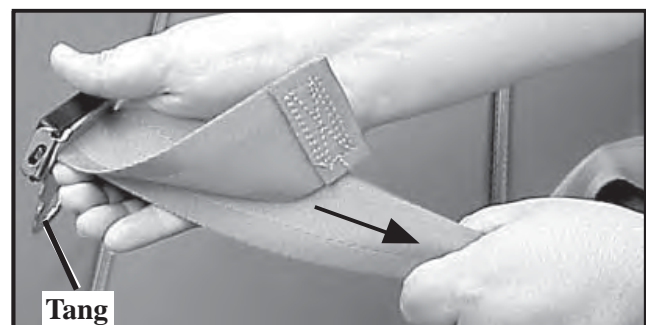
1. Loosen or unfasten it.
2. Grasp the tang and turn it perpendicular to the webbing, then pull the tang outward (away from the restraint anchorage) until the restraint is the desired length (Figure 15).

#### To shorten the restraint:

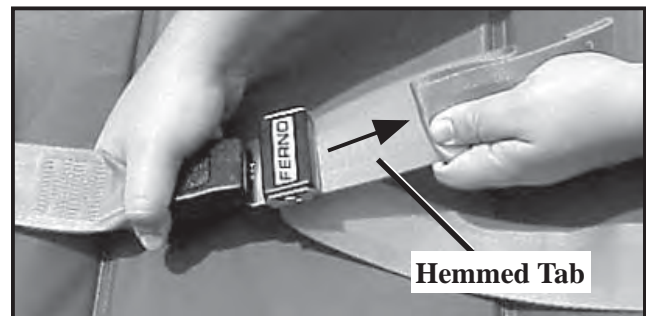
Grasp the hemmed tab and pull the webbing through the tang slide bar assembly until restraint is desired length (Figure 16).



**Figure 14 - Opening and Closing the Seat-Belt-Style Buckle**



**Figure 15 - Lengthening the Restraint**



**Figure 16 - Shortening the Restraint**

### 5.4 Attaching and Using the Model 71-M Stretcher Restraints

The Model 71-M stretcher is supplied with patient restraints fitted with hook-and-loop closures for use in environments where metal buckles are undesirable.

Restraints with hook-and-loop closures are only suited for use in a basket stretcher that is being carried in the horizontal position over a level surface. Do not use these restraints in high angle rescue situations and do not use them as primary restraints on ambulance cots.

**To attach and fasten the hook-and-loop style restraints:**

1. Pass the strap downward between the rope and the stretcher at the selected attachment point, then up between the rope and the stretcher at the corresponding attachment point on the opposite side of the stretcher (Figure 17).
2. Thread the hook-and-loop portion of the restraint through the plastic buckle slides until the strap is the desired length (Figure 18).
3. Fold the free end of the strap back over the buckle slide as shown in and then press it down firmly to fasten the hook-and-loop strips (Figure 19).

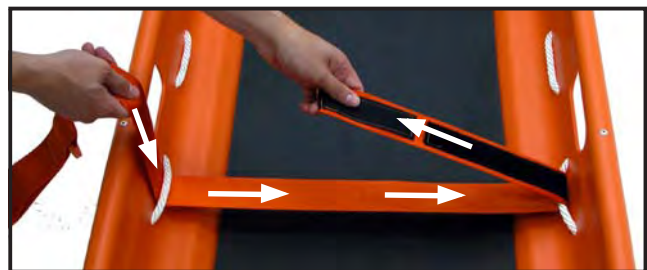
**To unfasten the restraint,** pull up on the end of the strap to separate the hook-and-loop strips and pull the free end of the strap back through the buckle slides.

**Important**

Restraints with hook-and-loop style closures are only suited for use in a basket stretcher that is being transported in the horizontal position over a level surface. Do not use them in any other type of rescue situation.

**Important**

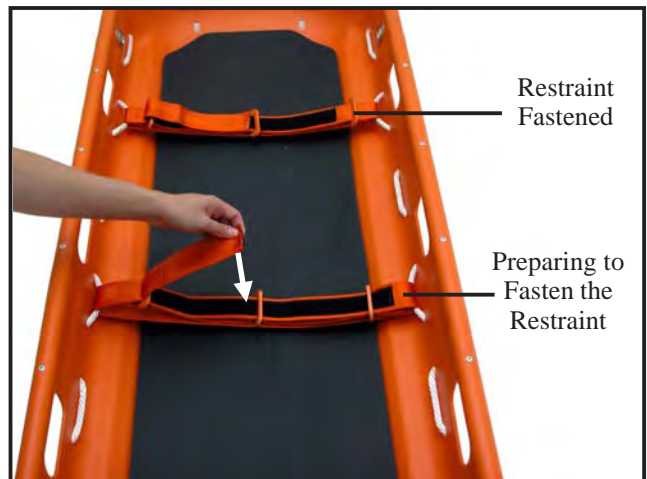
Do not use restraints with hook-and-loop closures as primary restraints on an ambulance cot.



**Figure 17 - Model 71-M -Style Restraint Components**



**Figure 18 - Threading the Restraint Through the Buckle Slides**



**Figure 19 - Securing the Restraints**



## 6 - USING THE STRETCHER

### 6.1 Before Placing the Stretcher in Service

- ❑ Personnel who will work with the stretcher need to read this manual.
- ❑ Set up the stretcher and attach the restraints (see pages 11-16).
- ❑ Confirm that the stretcher, restraints, and foot plate function properly (follow instructions in *Inspecting the Stretcher*, page 23).

### 6.2 General Guidelines for Use - All Stretcher Models

- Using the stretcher requires a minimum of two trained operators. In most rescue situations, operators will need additional help. For information about placement and direction of helpers, see *Carrying the Stretcher*, page 19.
- Follow local protocols and standard emergency patient-handling procedures when using the stretcher.
- Medical advice is beyond the parameters of this manual. It is the users' responsibility to ensure safe practices for the patient and themselves.
- Stay with the patient at all times.
- Always use the supplied patient restraints or a restraint system suitable to the rescue situation.
- If ropes, winches, ladders, lifting bridles (spiders) or other special equipment must be used to move the stretcher, the rescue is considered high angle or technical in nature and should be carried out only by specially trained rescue personnel (see pages 20 and 21).

#### WARNING

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



Read Users'  
Manual



Use Two Trained  
Operators  
(Minimum)



Load Limit  
600 lb (272 kg)

#### WARNING

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

#### WARNING

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

#### Important

Before using a Series 71 stretcher in a high angle rescue situation, read the information and instructions on pages 20 and 21.

## 6.3 Transferring a Patient Into the Stretcher

### IMMOBILIZING THE PATIENT

If patient immobilization is required, follow local protocols.

The Ferno immobilization products shown in Figure 20 are compatible with the 71 Series stretchers.

### PREPARING THE STRETCHER TO RECEIVE THE PATIENT

Place the vinyl-covered pad in the stretcher. The pad and stretcher are fitted with strips of hook-and-loop material. Press the pad against the stretcher to join the hook-and-loop strips.

Depending on patient condition, the weather, and the rescue situation, the basket can be lined with one or more blankets for additional patient warmth or protection.

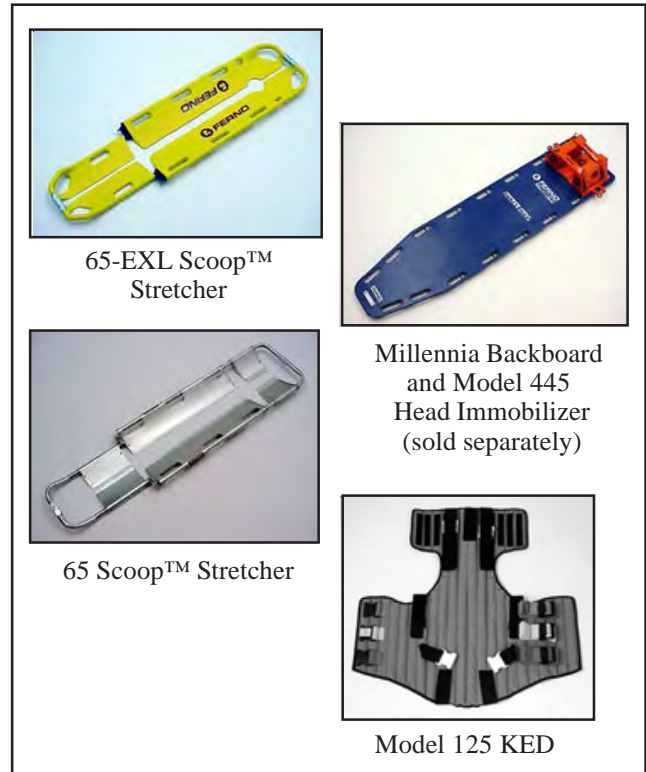
### TRANSFERRING THE PATIENT INTO THE STRETCHER

The patient's condition and the rescue situation will determine which method is best suited for transferring the patient into the stretcher. Follow local protocols or your medical director's guidelines.

### SECURING THE PATIENT IN THE STRETCHER

Secure the patient in the stretcher with the supplied restraints or with a restraint system selected by specially trained high angle rescue personnel.

Use additional restraints, rope, or other means to secure any life-support equipment to the stretcher.



**Figure 20 - Ferno Immobilization Products Compatible with the 71 Series Stretchers**

### 6.4 Carrying the Stretcher

Carrying the stretcher requires a minimum of two trained operators positioned at opposite ends of the stretcher, facing each other.

If the load is heavy or the stretcher must be carried a long distance, over rough terrain, or through debris, additional help will be needed.

The squad leader should maintain control of the stretcher and direct all helpers. The helpers should be positioned where they can keep the stretcher as balanced and level as possible. See Figure 21 for suggested placement of operators and helpers.

### 6.5 Sliding the Stretcher

In some rescue situations it is necessary to slide the stretcher on its runners over the ground. Avoid rocks, stumps, branches or other hazards that could penetrate the stretcher.

If ropes, winches, ladders, lifting bridles (spiders) or other special equipment must be used to slide the stretcher, the rescue is considered high angle or technical in nature and should be carried out only by specially trained rescue personnel.

### 6.6 Using Models 71, 71-S, and 71-SS in the Water

In water rescue situations, stretcher models 71, 71-S, and 71-SS may be used in conjunction with Ferno's Model 471 Flotation Collar (Figure 22).

Such situations are technical in nature and should be carried out only by specially trained rescue personnel.

#### Important

Using a 71 Series stretcher in a water rescue situation requires the attachment of Ferno's Model 471 Flotation Collar.

## WARNING

Helpers can cause injury or be injured. Maintain control of the stretcher and direct all helpers.

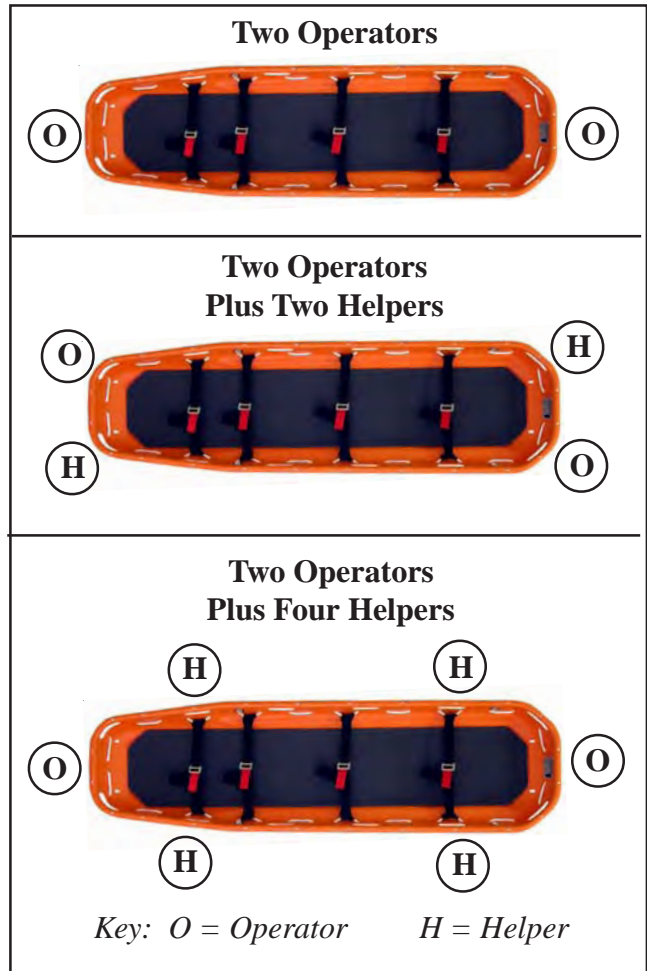


Figure 21 - Suggested Placement of Operators and Helpers



Figure 22 - Model 471 Flotation Collar

## 7 - USING THE STRETCHER IN HIGH ANGLE RESCUE SITUATIONS

### 7.1 General Guidelines

- The Models 71, 71-S, and 71-SS stretcher are suitable for horizontal and vertical lifting in certain high angle rescue situations.
- **Do NOT use the Model 71-M stretcher in high angle rescue situations.** The hook-and-loop-style restraint closures and some materials in the stretcher are not suitable for use in high angle procedures.

If you are not sure which Series 71 model stretcher you have, you can obtain the model number by providing Ferno Customer Relations (page 25) or your Ferno distributor with your stretcher's serial number.

The Model 71-M stretcher can be easily identified by the presence of wooden runners, the vinyl-covering on the aluminum frame, and the plastic rivets securing the frame to the stretcher rim.

- Because rescue situations are rarely the same, this manual must be general in nature. It is the responsibility of personnel specially trained in high angle rescue to select the proper stretcher, patient restraint system, and other equipment for each rescue situation.
- The stretcher load limit of 600 lb/272 kg includes the combined weight of the stretcher, patient, life-support equipment, and where applicable, a rescuer.
- When using high angle rescue equipment with a stretcher, every component of the equipment must have a load rating at least equal to that of the stretcher.
- During a high angle rescue, the stretcher may be suspended horizontally, vertically, or at an angle, and rescuers may slide or carry it at various angles. Secure the patient in the stretcher so that he or she does not slip lengthwise, slide from side to side, or come out of the stretcher.

#### Important

Do not use the Model 71-M basket stretcher in a high angle rescue situations. The hook-and-loop-style restraint closures, and some materials in the stretcher body, are not intended for, and are not suited to, use in these demanding rescue situations.

#### Important

Rescue procedures using ropes, harnesses, lifting bridles (spiders), and other specialized gear are considered technical in nature. They are potentially hazardous activities and require special skills. No rescue personnel should attempt technical rescue procedures unless they have received professional instruction and training.

#### Important

Personnel using the stretcher in high angle rescue situations are responsible for knowing the techniques involved and for selecting the stretcher, patient restraint system and other equipment best suited to each rescue situation.

#### LOAD LIMIT



The Load Limit is the combined weight of the stretcher, patient, life-support equipment, and in some rescue situations, the rescuer.

### 7.2 Using the Models 71, 71-S, and 71-SS Stretchers in High Angle Rescue Situations

It is the responsibility of specially trained personnel to know the techniques involved in high angle rescue and to select the equipment and procedures best suited to each rescue situation.

#### TIE-IN POINTS FOR LIFTING BRIDLES OR ROPES

For horizontal lifting/lowering, the Models 71, 71-S, and 71-SS stretchers are fitted with four brass grommets that provide tie-in points for ropes or carabiners (Figures 23 and 24).

For vertical lifting/lowering, handholds at the head end of the stretchers provide tie-in points (Figure 25).

When using a lifting bridle (spider) with the stretcher, attach and use the bridle according to the bridle manufacturer's instructions. Ferno's Model 418-1 Lifting Bridle was designed to be used with the Models 71, 71-S, and 71-SS stretchers.

#### TAG LINES

Attach tag lines to the stretcher to allow rescuers to position or maneuver the stretcher and to prevent it from spinning (Figures 24 and 25).



Figure 23 - Tie-In Point

**Important**

Before using any Series 71 stretcher in a high angle rescue situation, read all the information on page 20.

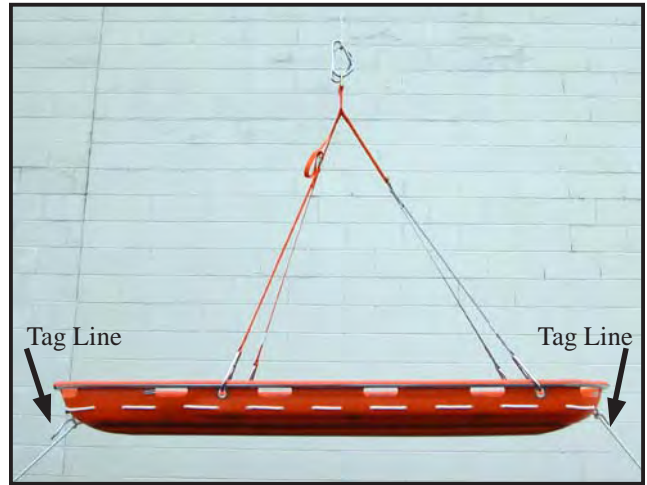


Figure 24 - Horizontal Lifting/Lowering



Figure 25 - Vertical Lifting/Lowering

## 8 - MAINTENANCE

### 8.1 Maintenance Schedule

The stretcher requires regular maintenance. Set up and follow a maintenance schedule. A sample maintenance record sheet is provided on page 27. The table below represents minimum intervals for maintenance.

Minimum Maintenance Intervals	Each Use	As Needed	Each Month
Disinfecting (this page)	•		
Cleaning (this page)		•	
Inspecting (page 23)		•	•

### WARNING

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

### Important

Disinfectants and cleaners containing bleach, phenolics, or iodines can cause damage to the stretcher, restraints, and pad. Disinfect and clean only with products that do not contain these chemicals.

### 8.2 Disinfecting and Cleaning The Stretcher

Remove pad and restraints from the stretcher. Apply disinfectant to all parts of the stretcher according to disinfectant manufacturer’s instructions for application method and contact time.

Hand wash the stretcher using warm water with a mild detergent. Rinse the stretcher with clear water. Dry with towel or allow to air dry. Store the stretcher in a dry area.

### 8.3 Disinfecting and Cleaning the Stretcher Pad

Remove the pad from the stretcher. Apply disinfectant to all surfaces of the pad according to disinfectant manufacturer’s instructions for application method and contact time.

Hand wash the pad using warm water with a mild detergent. Hang the pad to dry or wipe dry with a towel.

### 8.4 Disinfecting and Cleaning The Restraints

Remove restraints from the stretcher before disinfecting and cleaning.

#### RESTRAINTS WITH TWO-BAR/THREE-BAR STYLE BUCKLES

Apply disinfectant to all surfaces of the restraint following the disinfectant manufacturer’s instructions.

Buckle restraints, place in mesh bag (not supplied), and wash in an industrial washing machine using warm water, mild detergent, and gentle agitation. Hang restraints to dry. Do **not** place restraints in a dryer.

#### RESTRAINTS WITH SEAT-BELT-STYLE BUCKLES

Buckles: Apply disinfectant/cleaner according to disinfectant manufacturer’s instructions.

Webbing: Apply disinfectant according to disinfectant manufacturer’s instructions. To clean, immerse restraint webbing, but **not** buckles, in warm water with mild detergent. To rinse, immerse webbing in clear water. Hang restraints to dry. Do **not** place restraints in a dryer.

#### RESTRAINTS WITH HOOK-AND-LOOP CLOSURES

Unfasten hook-and-loop closures and apply disinfectant to all surfaces of restraint according to disinfectant manufacturer’s instructions.

Wash restraints in washing machine using warm water, mild detergent, and gentle agitation. Hang restraints to dry. Do **not** place restraints in a dryer.

### 8.5 Inspecting the Stretcher

Have your service’s equipment maintenance personnel follow the checklist below to inspect the stretcher. If inspection shows damage or excessive wear, remove the stretcher from service until repair is made (see *Parts and Service*, this page).

<b>INSPECTION CHECKLIST</b>	
<input type="checkbox"/> Are all components present?	<input type="checkbox"/> <u>Model 71-M Only</u> : Are runners in good condition and securely attached to the basket?
<input type="checkbox"/> Are all rivets securely attached?	<input type="checkbox"/> <u>Model 71-M Only</u> : Is vinyl covering in place on frame and are plastic rivets (basket to frame) securely in place?
<input type="checkbox"/> Is the stretcher basket free of punctures, cracks, deep gouges, and cuts?	<input type="checkbox"/> Is restraint webbing in good condition with no cuts or frayed edges?
<input type="checkbox"/> Is the stretcher frame free of bends and cracks?	<input type="checkbox"/> Are restraint buckles free of visible damage and do they operate properly?
<input type="checkbox"/> <u>Split Basket Models (71-S and 71-SS Only)</u> : Are center plate, connector pins, and splice pins and housings present and in good condition?	<input type="checkbox"/> Is pad free of cuts and punctures?
<input type="checkbox"/> <u>Split Basket Models (71-S and &amp; 71-SS Only)</u> : Do stretcher halves attach/detach properly?	<input type="checkbox"/> Does pad attach to stretcher properly?

## 9 - PARTS AND SERVICE

*(Parts Lists are on next page)*

### 9.1 Parts and Service - U.S.A. and Canada

To order parts or for professional stretcher repair, contact EMSAR® - the only agent authorized by Ferno to manage, service, and repair Ferno products. EMSAR factory-trained technicians use Ferno-approved parts and repair procedures. EMSAR has a franchise location serving you. For details, phone, fax, or visit EMSAR’s web site.

**1.800.73.EMSAR (Phone)**  
**1.937.383.1051 (Fax)**  
**www.EMSAR.com (Internet)**



**WARNING**

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

### 9.2 Parts and Service - Worldwide

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

**WARNING**

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

### 9.3 Model 71 Parts

Description .....	Part # .....	Quantity
Stretcher Pad w/16 Clips .....	039-0354 .....	1
Rope with Clips .....	090-1650 .....	1
Foot Plate with Stiffener Tube .....	090-1670 .....	1
Foot Plate Strap and Clips .....	039-0131 .....	1
71 Series Load Limit Label Plate .....	190-1278 .....	1

**Note:** 1) The stretcher pad is compatible only with stretchers after serial number 07 050801.

2) The stretcher basket body and the metal frame are not available for the end user to install. These must be replaced by an EMSAR service center.

3) Patient restraints are available from Ferno Customer Relations, page 25, or from your Ferno distributor.

### 9.4 Models 71-S and 71-SS Parts

Description .....	Part # .....	Quantity
Stretcher Pad w/8 Clips, Head-End Half for 71-S .....	039-0355 .....	1
Stretcher Pad w/8 Clips, Foot-End Half for 71-S .....	039-0356 .....	1
Stretcher Pad w/8 Clips, Head-End Half for 71-SS .....	039-0357 .....	1
Stretcher Pad w/8 Clips, Foot-End Half for 71-SS .....	039-0358 .....	1
Rope with Clips for 71-S and 71-SS .....	090-2060 .....	1
Side and Center Connector Pins for 71-S and 71-SS .....	090-2080 .....	1
Foot Plate with Stiffener Tube .....	090-1670 .....	1
Foot Plate Strap and Clips .....	039-0131 .....	1
71 Series Load Limit Label Plate .....	190-1278 .....	1

**Note:** 1) The stretcher pads are compatible only with stretchers after serial number 07 050801.

2) The stretcher basket body halves and the metal frames are not available for the end user to install. These must be replaced by an EMSAR service center.

3) Patient restraints are available from Ferno Customer Relations, page 25, or from your Ferno distributor.

### 9.5 Model 71-M Parts

Description .....	Part # .....	Quantity
Stretcher Pad .....	039-0354 .....	1
Wooden Runner with Plastic Bolts .....	090-1648 .....	1
Plastic Nuts and Bolts Kit for Two Runners .....	090-5529 .....	1
Rope Only .....	090-1649 .....	1
Patient Restraint Strap .....	039-0135 .....	1
71 Series Load Limit Label Plate .....	190-1278 .....	1

**Note:** 1) The stretcher pad is compatible only with stretchers after serial number 07 050801.

2) The stretcher basket body and the metal frames are not available for the end user to install. These must be replaced by an EMSAR service center.

3) Patient restraints are available from Ferno Customer Relations, page 25, or from your Ferno distributor.



## 10 - 71 BASKET STRETCHER ACCESSORIES

Ferno accessories compatible with the basket stretcher are listed here.

Always follow the instructions packed with accessories. Keep the instructions with this manual. Be aware of any special considerations (door heights, etc.) when using accessories.

Contact Ferno Customer Relations (this page) or your Ferno distributor for product information.


WARNING

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

<u>Accessory Description</u>	<u>Part Number</u>
471 Flotation Collar .....	031-3943
418-1 Adjustable Lifting Bridle .....	031-2390
513-4 IV Pole for 71 & 71-S Stretchers .....	008-5480
430 Restraint, blk, 2-pc., w/ metal buckle....	031-3892
Int'l. Restraint, org, 2-pc, w/ metal buckle ..	031-4008
416 Restraint, red, 2-bar, 3-bar buckle .....	031-3927
Restraint for 71-M Stretcher only .....	039-0135
71 Stretcher Pad w/16 clips .....	039-0354
71-S Stretcher Head-End Pad w/8 clips .....	039-0355
71-S Stretcher Foot-End Pad w/8 clips .....	039-0356
71-SS Stretcher Head-End Pad w/8 clips .....	039-0357
71-SS Stretcher Foot-End Pad w/8 clips .....	039-0358

## 11 - FERNO CUSTOMER RELATIONS

Customer service and product support are important aspects of each Ferno product. To help us serve you better, please have the serial number of your stretcher available when calling Ferno Customer Relations, and include it in all written communications.

**For assistance in the U.S.A.**, please contact Ferno Customer Relations:

Telephone (Toll-free)..... 1.800.733.3766  
 Telephone .....

**For assistance worldwide**, please contact your Ferno distributor, or Ferno Customer Relations:

Telephone ..... +1.937.382.1451  
 Fax ..... +1.937.382.6569  
 Internet ..... www.ferno.com



**Serial Number** \_\_\_\_\_





# LIMITED WARRANTY

Ferno products are warranted to be free from defects in material and workmanship for a period of one year, except as follows:

- External finishes (gelcoat, paint, powdercoat, decals, etc.) are warranted for 90 days.
- Soft goods (webbing, vinyl, fabric, foam, etc.) are warranted for 90 days.
- Stainless whirlpool tanks are warranted against tank shell leakage and corrosion for 5 years.
- Mortuary products (except hydraulic parts and soft goods) are warranted for 2 years.
- Ambulance cots and ambulance transporters (except external finish and soft goods) are warranted for 2 years.
- EZ Glide™ Chairs are warranted for 2 years.
- 59-E Evacuation Chairs are warranted for 15 years.
- EMS bags (replaceable bottom excluded) and backboards are warranted for lifetime replacement. (Damage caused by accident, abuse, misuse or improper care will be repaired at a reasonable charge for which you will be informed prior to the repair work being done.)
- Integrated Charging System (ICS) is warranted for 2 years.
- Fiberglass pools have a structural warranty of 5 years against leaking through the vinyl ester resin. Fading is specifically excluded from the structural warranty. Chips and/or scratches caused by accident, abuse and misuse are specifically excluded from the structural warranty.
- Vinyl pool liner welded seams are warranted to be free of defects in manufacturing or workmanship for a period of 5 years. Vinyl pool liner welded seam warranty specifically excludes non-Ferno labor charges, cost of replacement water, replacement chemicals, or any owner-related damage that may occur. Warranty is void if the liner is exposed to excessive heat or cold, chemical abuse or lack of proper chemical maintenance. Chemicals should not be allowed to settle onto the liner as chemicals can bleach the color. The pH of the pool water must be properly maintained and balanced. Fading, wrinkling and liner slippage are specifically excluded from this warranty.

Ferno repairs are warranted for 90 days from the date of repair.

This limited warranty applies only when you use and care for the product as described in the instructions provided with the product. Improper use and care may void this warranty. The warranty period begins the day the product is shipped from Ferno or the day you receive it if you have proof of the delivery date. Shipping charges are not covered by this limited warranty. Ferno is not liable for shipping damages or damages sustained through using the product.

Non-Ferno products sold by Ferno retain the product manufacturer's original warranties and guarantees. Such warranties and guarantees, if any, are solely those of the product manufacturer. Ferno offers no warranties or guarantees of any kind additional to those of the product manufacturer, nor does Ferno assume any liability for products manufactured by others.

## Limitation of Liability

If a product is proven defective, Ferno will repair or replace it, or, at our option, refund the item's purchase price. In no event is Ferno liable for more than the selling price of the product. The purchaser accepts these terms in lieu of all damages.

Except for the limited warranty above, Ferno makes no other warranties, either expressed or implied. Ferno makes no implied warranties of merchantability and fitness for a particular purpose for its own product or for the products of others. In no event will Ferno be liable for any indirect or consequential damages sustained in connection with the delivery, use, or performance of its products.

Under breach of limited warranty any legal action for breach of the limited warranty must be filed within one year of the date the breach is or should have been discovered.

## Limited Warranty Claims and Disputes

Contact Ferno Customer Service promptly if you receive a product from Ferno that you suspect is defective. A representative will assist you with the claim procedure. Before sending any product to Ferno obtain a return authorization number from Ferno Customer Service.

Ferno-Washington, Inc.  
70 Weil Way  
Wilmington, OH 45177-9371

Telephone 1.800.733.3766  
Fax 1.800.388.1349  
Email [www.ferno.com](http://www.ferno.com)