



LAIV-3SV **IV Pole** for FERNO Viper



Read this Manual and Retain
for Future Reference



UDI-DI



FERNO[®]

Users' Manual

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Ferno Customer Service

For ordering assistance or general information:

AUSTRALASIA

Ferno Australia, 11 Johnstone Road
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Fax	+61 7 3881 1125
Email	info.au@ferno.com
Internet	www.ferno.com.au

ALL OTHER LOCATIONS

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

Ferno (UK) Limited
Stubs Beck Lane, Cleckheaton
West Yorkshire BD19 4T, UK.

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Email	sales.uk@ferno.com
Internet	www.ferno.com/uk

Disclaimer

This manual contains general instructions for the use, operation and care of this product. The instructions are not all-inclusive. Safe and proper use of this product is solely at the discretion of the user. Safety information is included as a service to the user. All other safety measures taken by the user should be within and under consideration of applicable regulations 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. The complete terms and conditions of the limited warranty, and the limitations of liability and disclaimers, are also available upon request by contacting Ferno Australia via email: info.au@ferno.com.

Adverse Event Notice

In the event of an adverse event or serious incident related to the use of this device, the end user/operator must report the incident to Ferno Australia, 11 Johnstone Road, Brendale Queensland 4500 Australia, +61 7 3881 4999 or via email to info.au@ferno.com. If the incident occurred in the European Union, report it to Ferno's Authorised EU Representative and the competent authority of the Member State in which the end user is established.



Serial Number _____

Location: Bottom of pole



UDI-DI (01) 09348498002337



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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 use the IV pole.

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

Improperly securing the IV pole to the cot can cause injury. Secure the IV pole as instructed in this manual.

Improperly securing items to the IV pole can cause injury or damage. Use the IV pole as instructed in this manual.

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

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

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

1.2 Notice

Notices emphasise important, but not hazard-related information. Failure to follow Notices could result in product or property damage.

NOTICE

1.3 Tip

Tips provide recommendations for easier use of the product.










Tip

1.4 Bloodborne Disease Notice

To reduce the risk of exposure to blood or other potentially infectious materials when using the IV pole, follow the disinfecting and cleaning instructions in this manual.

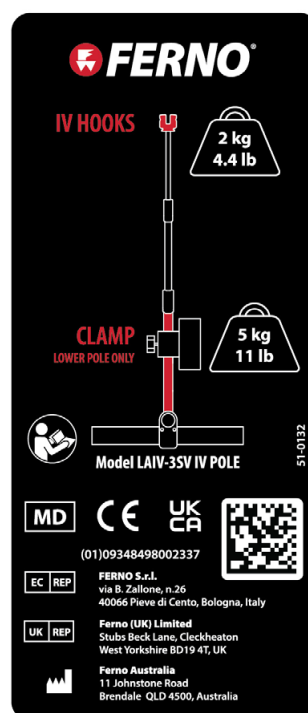
1.5 Symbol Glossary

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

Symbol	Definition
	Load Capacity on IV Hooks (Safe Working Load in kilograms and pounds)
	Load Capacity on Clamp (Lower Pole only) (Safe Working Load in kilograms and pounds)
	Read the User's Instruction Manual
	Compliant with European Union standards
	Compliant with United Kingdom standards
	Authorised Representative European Community
	Authorised Representative United Kingdom
	Medical Device
	Manufacturer

1.6 Safety and Instruction Labels

Safety and instruction labels place important information from the users' manual on the IV pole. Read and follow label instructions. Replace worn or damaged labels immediately.



2 - OPERATOR FOCUS

2.1 Operator Training

Operator using the IV pole must:

- Read and understand this manual.
- Have training on proper use of the IV pole.
- Be trained on emergency-medical service and emergency patient-handling procedures.
- Practice with the IV pole before using it in service.
- Keep training records. For a sample training record sheet, see page 11.

WARNING

Untrained operators can cause injury or be injured. Permit only trained personnel to use the IV pole.

3 - ABOUT THE IV POLE

3.1 Description

The Ferno® Model LAIV-3SV IV pole (called the IV pole in this manual) is a 3-way locking device designed to carry IV solution bags and infusion pumps.

The IV pole has three sections with two adjusters to provide a compact IV pole that can be quickly adjusted to a wide range of heights. The top and middle stages of the IV pole can be raised or lowered in any sequence.

The IV pole is for professional use only, and mounts directly onto a Ferno Viper stretcher.

FEATURES

- Aluminum and stainless steel pole sections
- Positive lock in deployed position. Push button release to store
- Quick-release clamps for adjusting the length of the pole
- Double-sided hook-and-loop fastening material strap to secure IV fluid bags
- Cot mounted retainer clip to secure the IV pole in stored position

3.2 General Specifications

Specifications for the IV pole are shown in the table below. General specifications are rounded. Metric conversions are calculated before rounding the Imperial measurement.

Ferno reserves the right to change specifications without notice. For more information, contact Ferno Customer Relations or your Ferno distributor (page 2).

Dimensions	Metric	Imperial
Height (Top of Cot Frame to Tip)		
With Sections Retracted	436 mm	17.2 in
Extended	1092 mm	42.3 in
Folded Height	56 mm	2.2 in
Length		
Folded	486 mm	19.1 in

WARNING

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

Load Capacity

Inspect the IV pole if the load capacity has been exceeded. See page 10.

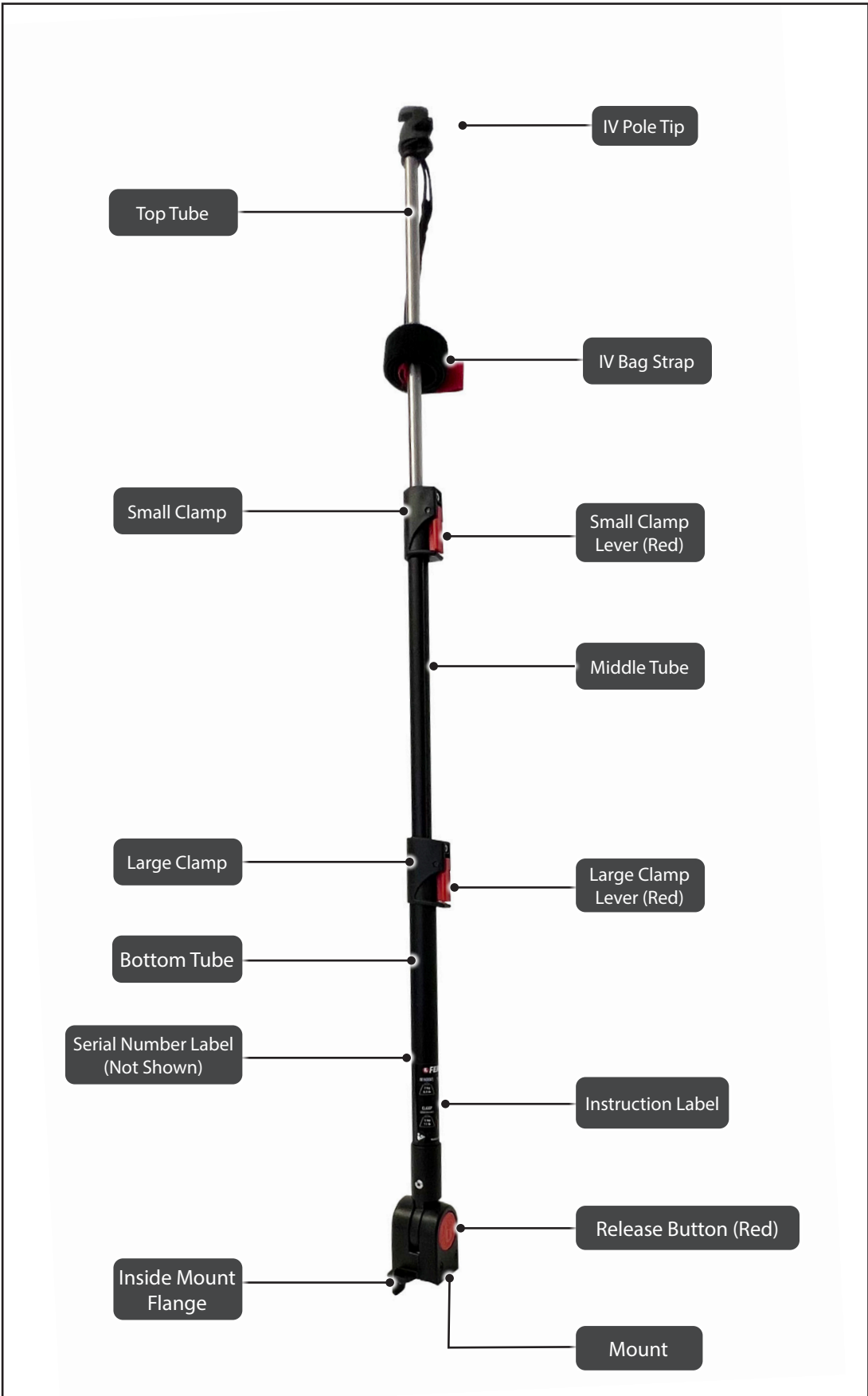


On IV Hooks



On Clamp
(Lower Pole only)

3.3 Components



4 - USING THE IV POLE

4.1 Before Placing the IV Pole in Service

- Personnel who will work with the IV pole need to read this manual.
- Confirm that the IV pole operates properly. See “Inspecting the IV Pole,” on page 10.
- Confirm that the cot operates properly with the IV pole securely attached.

4.2 General Guidelines for Use

- It is the users’ responsibility to ensure safe practices for the patient and themselves.
- The IV pole is for professional use only.
- Use the IV pole only when it is properly maintained and in good working order. See “Maintenance”, on page 9.
- Always properly secure the IV pole to the cot as instructed in this manual.
- Always properly secure IV bags to the IV pole. Use the straps provided, plus additional straps if needed.

4.3 Mounting the IV Pole

NOTICE

Mount the IV pole so that it does not interfere with the operation of the cot.

The IV pole mounts to pre-drilled holes at the loading-end of the Viper™ main frame (Figure 1). The IV pole may be attached to either side of the cot.

A properly mounted IV pole:

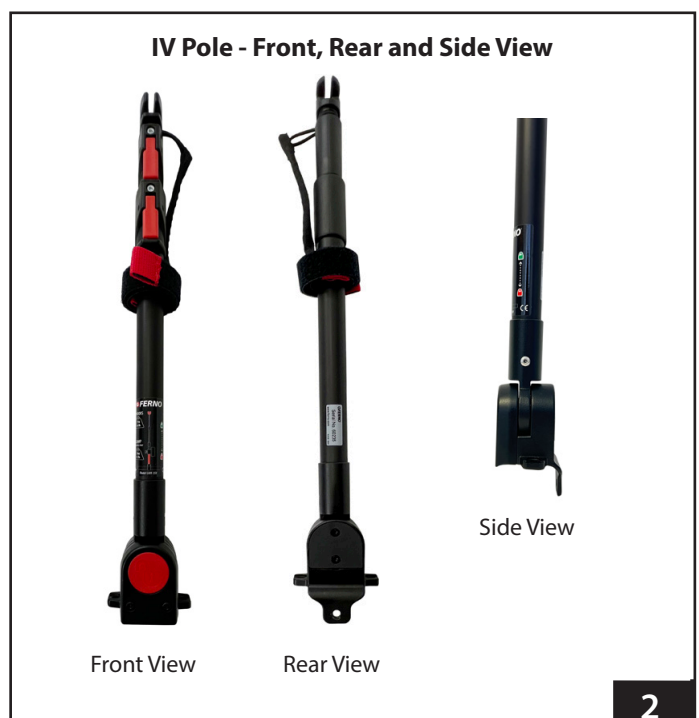
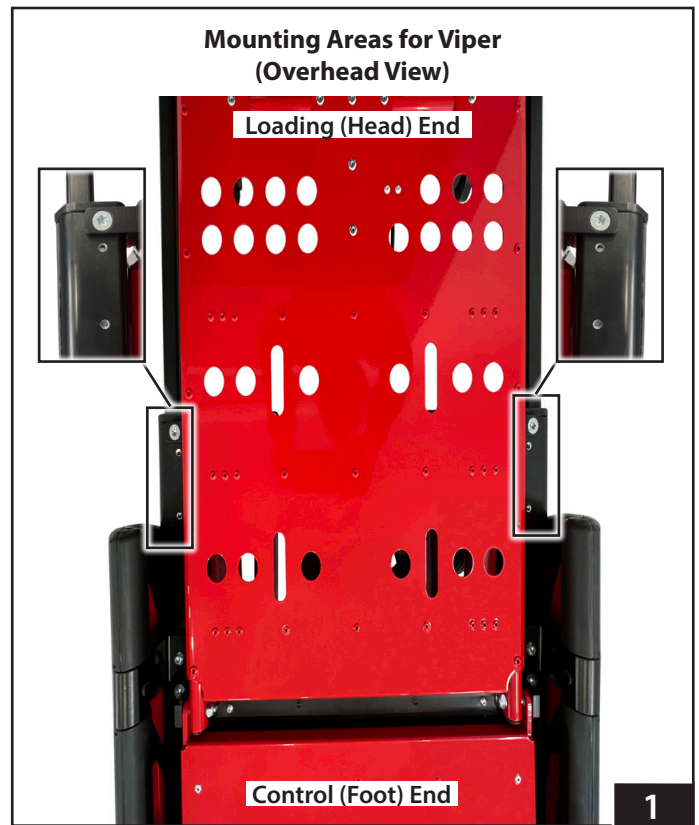
- Is mounted on the main frame of the Viper.
- Does not interfere with the operation of the cot.
- Does not contact the patient.
- Does not interfere with operators while working.

Parts Included	Qty.
3-Stage IV Pole	1
M6 x 12 Button Head Socket Screws	3
Tools Required (not supplied)	Qty.
4 mm Allen key / Hex wrench	1

WARNING

Untrained operators can cause injury or be injured. Permit only trained personnel to use the IV pole.

Improperly securing the IV pole to the cot can cause injury. Secure the IV pole as instructed in this manual.

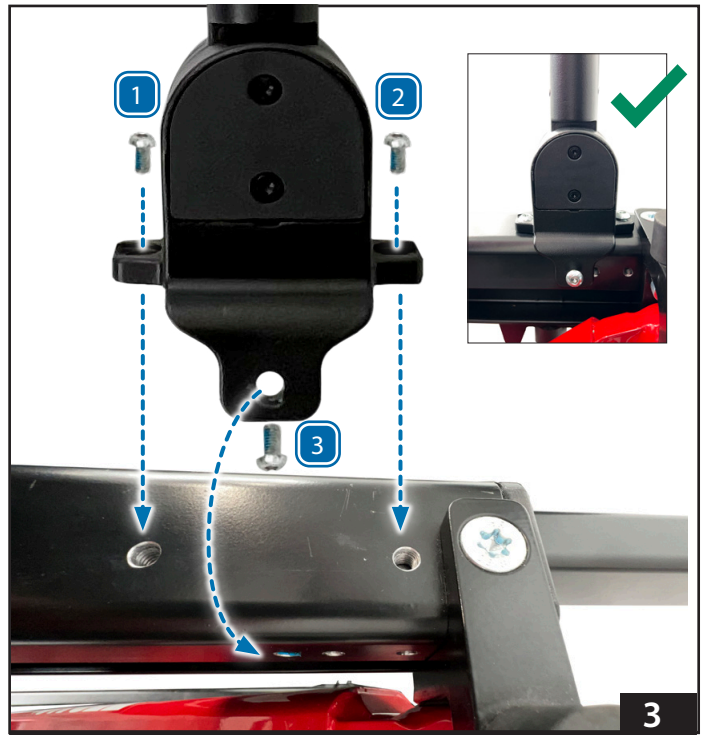


4.4 Attaching the IV Pole

Attaching and removing the IV pole is easier with the pole in the upright position.

Tip

1. The IV Pole is placed on the stretcher with the red release button facing outwards / away from the stretcher (Refer front cover image).
2. Align the holes of the IV Pole Mount to the pre-drilled screw holes in the Viper's side rail (Figure 3).
3. Insert and tighten all three provided screws to secure the IV Pole to the Viper (Figure 4).

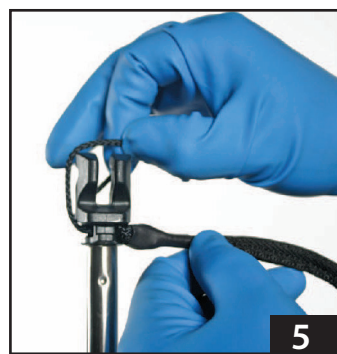
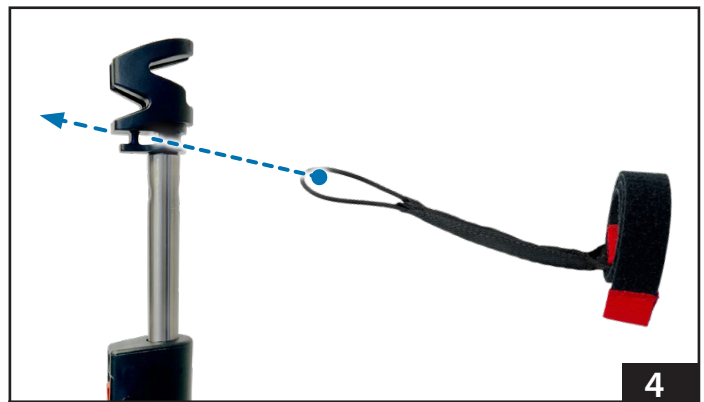


4.5 Removing the IV Pole

1. Rotate the IV pole upright and lock it in the upright position.
2. Loosen and remove the three screws to detach the IV Pole.

4.6 Attaching the IV Bag Strap

1. Push the cord loop of the IV bag strap through the hole at the bottom of the IV pole tip (Figure 4).
2. Pull the cord loop over the IV pole tip (Figure 5), and align the loop with the groove near the base of the IV pole tip (Figure 6).
3. Pull the other end of the cord loop so that the cord tightens on the IV pole tip (Figure 7).
4. Reverse this procedure to remove the strap for cleaning.



4.8 Adjusting the Pole Height

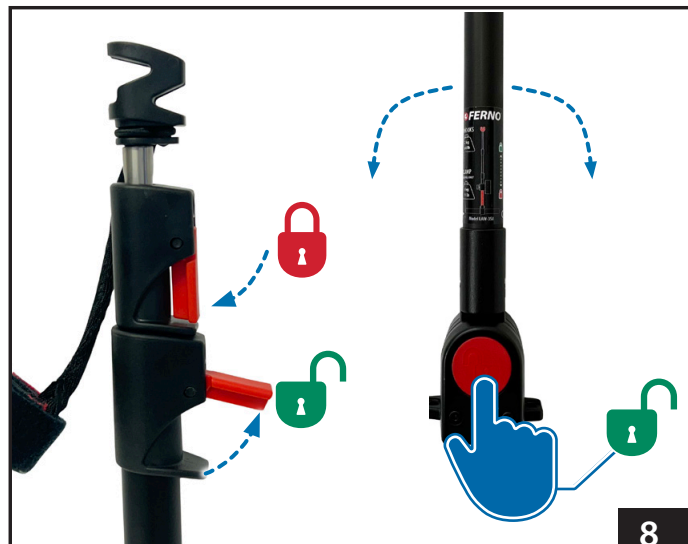
NOTICE

Ensure the lever clamps are locked prior to adding items to the IV pole.

To adjust the pole height, support the top of the IV pole and:

- 1 Lift either the small or large red clamp lever to adjust the top or middle tube of the IV pole (Figure 9).
- 2 Raise or lower the telescoping pole to the desired height (Figure 9).
- 3 Push in the red clamp lever to the locked position (Figure 9).

If required raise or lower the other section of the pole.



4.9 Attaching IV Bags

IV solution bags weighing up to 2 kg (4.4 lb) may be attached to the IV pole tip. Use the hook-and-loop strap provided to secure either one or two bags.

- Clip IV bags to the IV pole tip. Place only one bag on each side of the pole (Figure 10).
- Secure IV bags with the IV bag strap provided (Figure 11).
- Wrap the IV bag strap around the pole when storing the pole.

4.10 Attaching Equipment

NOTICE

Attach equipment ONLY to the bottom tube of the IV pole.

- Equipment weighing up to 5 kg, such as an IV pump, may be fitted with a pole clamp to the bottom tube.
- Attach equipment securely to the IV pole bottom tube, following the manufacturers' instructions.
- Remove all equipment before storing the IV pole.



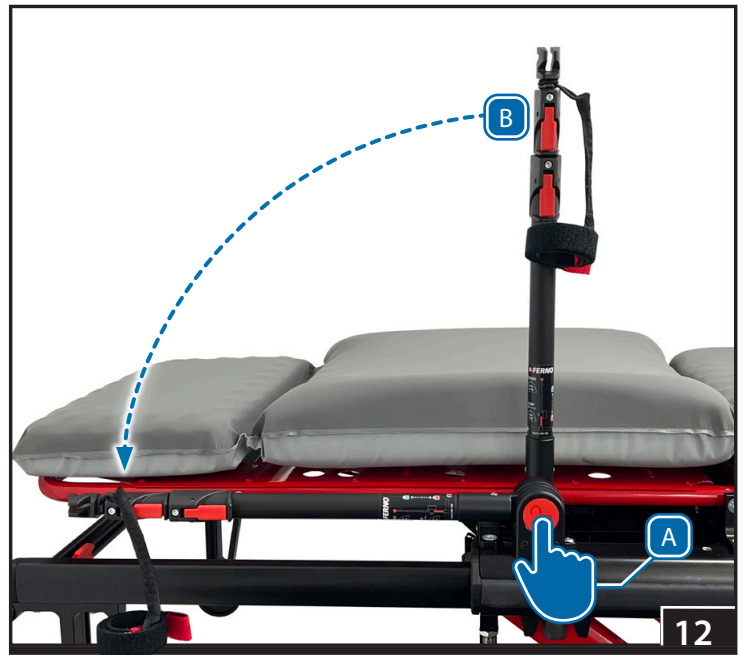
WARNING

Improperly securing items to the IV pole can cause injury or damage. Use the IV pole as instructed in this manual.



4.11 Storing the IV Pole

1. Remove all IV bags and equipment from the pole.
2. Lower both sections of the pole fully.
3. Wrap the IV bag strap around the pole.
4. **A** Depress the release button to unlock the pole
- B** Rotate the pole so it is parallel with the Viper side rail.
The IV pole auto-locks into position.



5 - MAINTENANCE

5.1 Maintenance Schedule

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

Keep maintenance records. A sample maintenance record sheet is provided at the back of this manual. See "Maintenance Records," on page 11.

When using maintenance products, follow the manufacturers' directions and read the manufacturers' material safety data sheets. The IV pole is constructed using parts and materials that require no lubrication. Only trained service personnel are permitted to disassemble and service the IV pole.

WARNING

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

Minimum Maintenance	Each Use	As Needed	Monthly
Disinfecting	•		
Cleaning		•	
Inspecting		•	•

5.2 Disinfecting and Cleaning the IV Pole

DISINFECTING

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

CLEANING

Hand clean all surfaces of the IV pole with warm water and a mild detergent. Rinse with warm, clear water. Dry the IV pole with a towel or allow it to air-dry.

NOTICE

Disinfectants and cleaners containing bleach, phenolics or iodines can damage the IV pole and straps. Disinfect and clean the IV pole and straps only with products that do not contain these chemicals.

Water under high pressure can penetrate joints, flush away lubricant and cause corrosion. Do not use a high-pressure washer or steam, to clean the IV pole.

5.3 Disinfecting and Cleaning the IV Bag Strap

Remove the IV bag strap by reversing the steps in "Attaching the IV Bag Strap," page 8. Spray all parts of the IV bag strap with disinfectant. Follow the disinfectant manufacturer's directions for use. Place the strap in a mesh bag (not supplied) and machine wash in warm water with a mild detergent. Hang the IV bag strap to dry. Do not place the IV bag strap in a dryer.

5.4 Inspecting the IV pole

Have your service's equipment maintenance personnel follow the instructions "Using the IV Pole," pages 6-9, and follow the inspection checklist at the right.

The inspection limits listed at the right are maximum allowable damage and are not to be exceeded. Item function takes precedence over allowable damage. If the unit has greater damage than what is listed, or does not function correctly, then it must be removed from service and replaced.

Inspection Checklist

- Are all components present?
- Are the knurled pins in the clamp levers firmly in place?
- Do all moving parts operate smoothly and properly?
- Does the pole operate properly without interfering with the cot operation?
- Is the IV bag strap in good condition with no cuts or frayed edges?

Type of Damage	Permissible Damage
Cracks	None
Dents	Up to 1 mm
Scratches and nicks	OK

6 - PARTS AND SERVICE

6.2 Worldwide

To order Ferno parts, and for professional IV Pole repair, contact Ferno Customer Service or your Ferno distributor. Only agents authorised by Ferno may manage, service, and repair Ferno products.

6.3 Parts List

No.	Part	Description	Qty
1	42-1030	IV Bag Strap - Tip Mount	1
2	51-0132	Label 3 Stage IV Pole to suit Viper™	1



WARNING

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

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

TRAINING RECORD

Date	Name	Training Method

MAINTENANCE RECORD

Date	Maintenance Performed	By



11 Johnstone Road
Brendale QLD 4500, AUSTRALIA

Emergency

Rescue

Safety

Rock Climbing

Mortuary
