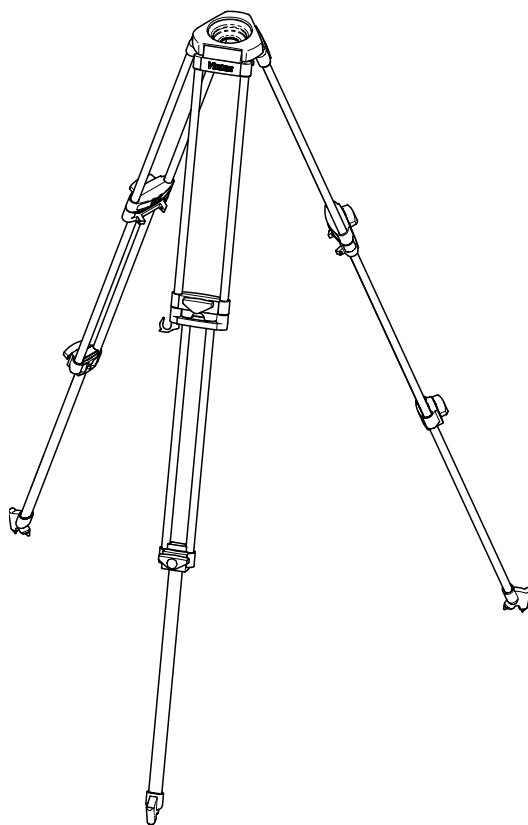


# Operators Guide

## Pozi-Loc



## Tripods



***Vinten***  
Camera Control Solutions

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# **Vision Pozi-Loc Tripods**

**Publication Part No. 3770-8    Issue 3**

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## **Preface**

### **Thank you and congratulations on your new Pozi-Loc tripod from Vinten**

We want you to get the most from your new Pozi-Loc tripod, and therefore encourage you to read this operators guide to familiarise yourself with its many features, some of which may be new to you. It also covers essential health and safety information and a section on maintenance that will ensure you keep your new product in perfect condition.

To receive additional benefits, register with Vinten now, on line by visiting [www.vinten.com/register](http://www.vinten.com/register), or by completing the registration form.

### **Features and benefits of your new Pozi-Loc tripod**

Designed to meet the demands of the professional camera operator, the Pozi-Loc tripod range combines an innovative clamping system with new advances in manufacturing technology. Pozi-Loc tripods are available with aluminium or carbon fibre legs in single-or two-stage configuration and with 75 mm, 100 mm or 150 mm bowl mounting.

- **Cam-operated clamping system requires low effort with a 90° turn from on to off, providing the user with a positive indication that the tripod is securely locked.**
- **The profile of the knob ensures that camera cables cannot snag.**
- **Lighter than earlier models and with an increased payload capacity of 25kg (55lb).**
- **Extensive height range and unrivalled torsional stiffness.**

**Once again, thank you for choosing the Pozi-Loc tripod.**

**We are confident it will give you many years of reliable performance.**

## Safety - Read This First

### Warning Symbols in this Operators Guide



Where there is a risk of personal injury, injury to others, or damage to the tripod or associated equipment, comments appear, highlighted by the word **WARNING!** and supported by the warning triangle symbol.

## Technical data

Type	Levelling Bowl Diameter	Maximum Height with Spreader	Minimum Height with Spreader	Recommended Maximum Load	Weight	Transport Length
<b>3880-3</b> <b>Two-stage</b> <b>Aluminium</b>	150 mm	157.1 cm (61.9 in.)	52 cm (20.5 in.)	45 kg (99 lb)	5.8 kg (12.8 lb)	76 cm (29.9 in.)
<b>3881-3</b> <b>Two-stage</b> <b>Carbon Fibre</b>	150 mm	157.1 cm (61.9 in.)	52 cm (20.5 in.)	45 kg (99 lb)	5.5 kg (12.1 lb)	76 cm (29.9 in.)
<b>3770-3</b> <b>Two-stage</b> <b>Aluminium</b>	100 mm	156.2 cm (61.5 in.)	41.6 cm (16.4 in.)	25 kg (55 lb)	3.2 kg (7.1 lb)	71 cm (28.0 in.)
<b>3771-3</b> <b>Single-stage</b> <b>Aluminium</b>	100 mm	145.5 cm (57.3 in.)	64.7 (25.5 in.)	25 kg (55 lb)	2.8 kg (6.2 lb)	86.4 cm (34.0 in.)
<b>3796-3</b> <b>Single-stage</b> <b>Aluminium</b> <b>2 metre</b>	100 mm	201.5 cm (79.3 in.)	98.5 (38.8 in.)	25 kg (55 lb)	3.7 kg (8.1 lb)	115 cm (45.3 in.)
<b>3883-3</b> <b>Two-stage</b> <b>Aluminium</b> <b>EFP</b>	100 mm	157.1 cm (61.9 in.)	52 cm (20.5 in.)	45 kg (99 lb)	5.8 kg (12.8 lb)	76 cm (29.9 in.)
<b>3772-3</b> <b>Two-stage</b> <b>Carbon Fibre</b>	100 mm	156.2 cm (61.5 in.)	41.6 cm (16.4 in.)	25 kg (55 lb)	2.6 kg (5.7 lb)	71 cm (28.0 in.)
<b>3773-3</b> <b>Single-stage</b> <b>Carbon Fibre</b>	100 mm	145.5 cm (57.3 in.)	64.7 (25.5 in.)	25 kg (55 lb)	2.3 kg (5.0 lb)	86.4 cm (34.0 in.)
<b>3884-3</b> <b>Two-stage</b> <b>Carbon Fibre</b> <b>EFP</b>	100 mm	157.1 cm (61.9 in.)	52 cm (20.5 in.)	45 kg (99 lb)	5.5 kg (12.1 lb)	76 cm (29.9 in.)
<b>3774-3</b> <b>Two-stage</b> <b>Aluminium</b>	75 mm	156.2 cm (61.5 in.)	41.6 cm (16.4 in.)	25 kg (55 lb)	3.2 kg (7.0 lb)	71 cm (28.0 in.)

## Technical data

Type	Levelling Bowl Diameter	Maximum Height with Spreader	Minimum Height with Spreader	Recommended Maximum Load	Weight	Transport Length
<b>3775-3</b> <b>Single-stage</b> <b>Aluminium</b>	75 mm	145.5 cm (57.3 in.)	64.7 (25.5 in.)	25 kg (55 lb)	2.8 kg (6.2 lb)	86.4 cm (34.0 in.)
<b>3776-3</b> <b>Two-stage</b> <b>Carbon Fibre</b>	75 mm	156.2 cm (61.5 in.)	41.6 cm (16.4 in.)	25 kg (55 lb)	2.6 kg (5.64 lb)	71 cm (28.0 in.)
<b>3777-3</b> <b>Single-stage</b> <b>Carbon Fibre</b>	75 mm	145.5 cm (57.3 in.)	64.7 (25.5 in.)	25 kg (55 lb)	2.3 kg (5.0 lb)	86.4 cm (34.0 in.)
<b>3882-3</b> <b>Two-stage</b> <b>Baby-Legs</b>	150 mm	50 cm (19.7 in.)	28 cm (11 in.)	45 kg (99 lb)	4 kg (8.8 lb)	36.3 cm (14.3 in.)
<b>3778-3</b> <b>Two-stage</b> <b>Baby-Legs</b>	100 mm	51 cm (20.1 in.)	23.7 cm (9.3 in.)	25 kg (55 lb)	2.1 kg (4.6 lb)	32.7 cm (12.9 in.)
<b>3779-3</b> <b>Two-stage</b> <b>Baby-Legs</b>	75 mm	51 cm (20.1 in.)	23.7 cm (9.3 in.)	25 kg (55 lb)	2.1 kg (4.6 lb)	32.7 cm (12.9 in.)

## Further information

For full details on maintenance and spare parts, please refer to Vision Pozi-Loc Tripods - Spares and Repairs (Publication Part No. 3770-9) This is obtainable from Vinten Broadcast Limited or your local Vinten distributor. For information on-line, visit our website at

**[www.vinten.com](http://www.vinten.com)**

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# Contents

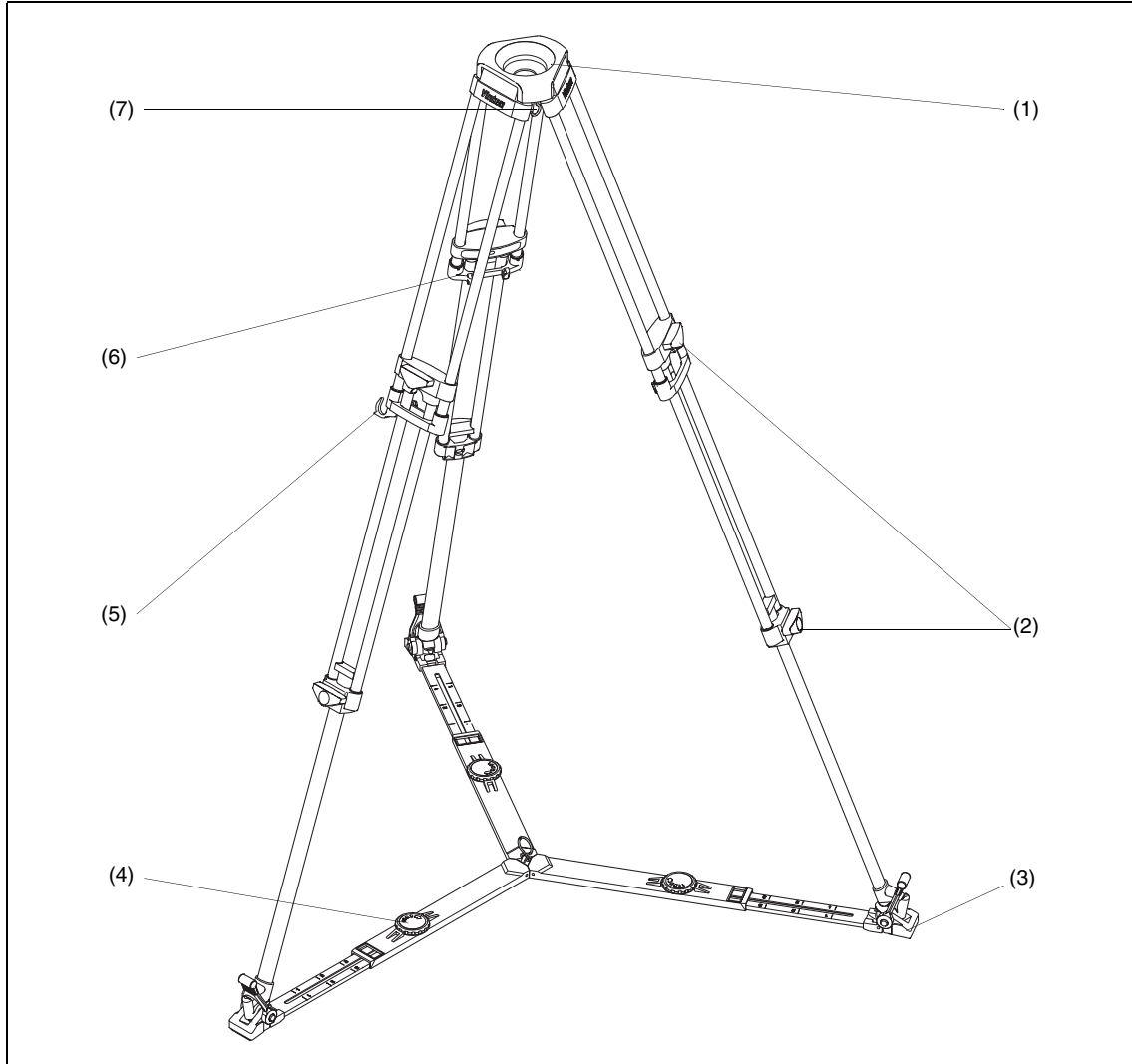
	Page
<b>Preface</b> .....	3
<b>Safety - Read This First</b> .....	4
<b>Technical data</b> .....	4
<b>Further information</b> .....	5
<b>Introduction</b> .....	9
<b>Operation</b> .....	10
<b>Optional equipment</b>	
'Spread-Loc' mid-level spreader .....	11
Carrying strap .....	12
<b>Servicing</b>	
General .....	14
Cleaning .....	14
Routine checks .....	14
Adjusting 'Pozi-Loc' leg clamps .....	14
<b>Parts list</b> .....	18

## Associated publications

Vision Pozi-Loc Tripods - Spares and Repairs  
Publication Part No. 3770-9

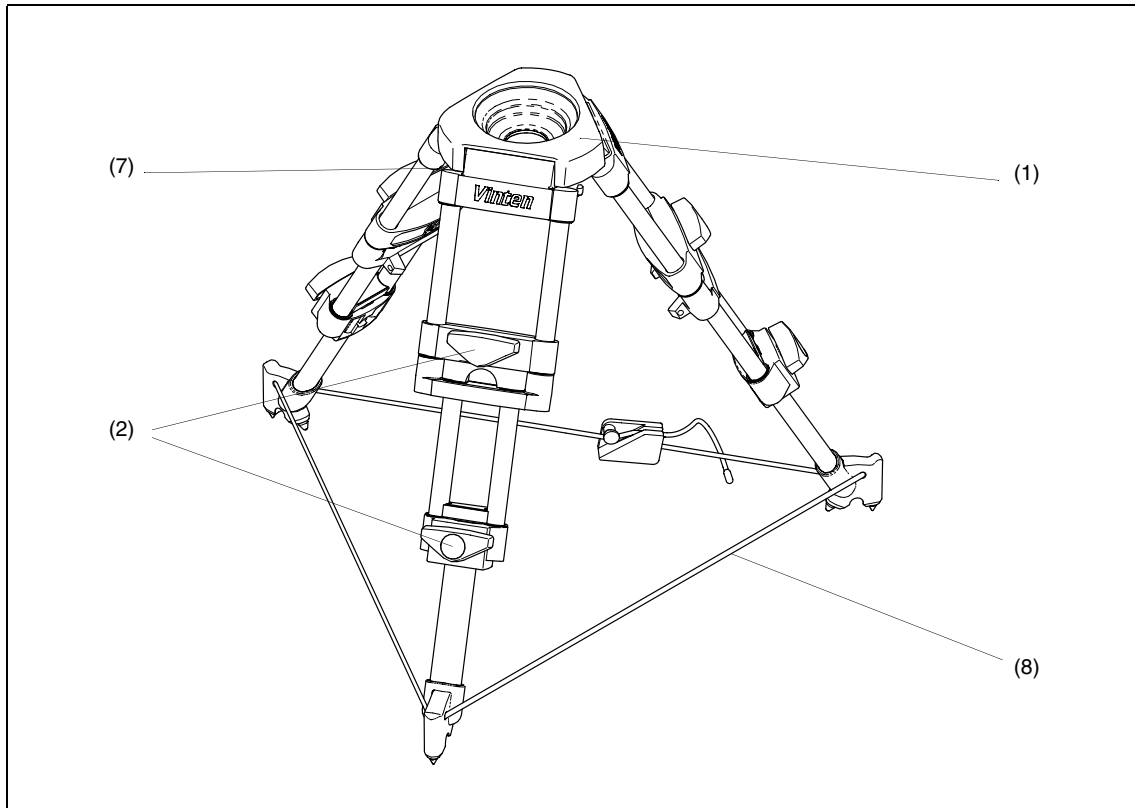
Vision Spread-Loc Spreader - Operators Guide  
Publication Part No. 3781-8

Spreaders, Dollies and Skids - Spares and Repairs  
Publication Part No. 3313-9



**Typical Vision Pozi-Loc Tripod**

- |     |                             |
|-----|-----------------------------|
| (1) | Tripod bowl                 |
| (2) | Clamp knob                  |
| (3) | Floor spreader              |
| (4) | Floor spreader adjuster     |
| (5) | Leg tie strap               |
| (6) | Spread-Loc attachment point |
| (7) | Tie down hook               |
-



**Typical Vision Pozi-Loc Baby-Legs Tripod**

- |     |                     |
|-----|---------------------|
| (1) | Tripod bowl         |
| (2) | Clamp knob          |
| (7) | Tie down hook       |
| (8) | Cleat rope spreader |



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## Introduction

The Vision Pozi-Loc range includes single- and two-stage tripods with either aluminium or carbon fibre legs, fitted with 75 mm, 100 mm or 150 mm levelling bowls (See table on [page 4](#)). All are fitted with the highly-efficient Pozi-Loc leg clamp, which provides quick set-up and easy adjustment.

The tripods are designed for use with Vinten floor spreaders and dollies. An optional mid-level spreader may be used.

Low-level 'baby-legs' versions are also available, fitted with a simple cleat rope spreader.

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## Operation

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**NOTE:** The following procedures refer to a two-stage tripod fitted with a Vision head and a floor spreader. The procedure for single-stage tripods is essentially similar. When using a two-stage tripod the bottom stages should be fully extended or fully retracted, unless conditions such as split levels prevent this.

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Lift the complete tripod and head out of the case using the finger holes just below the top clamps.

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**NOTE:** Keep the spreader attached to the tripod

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Set the pan bar.

Release the leg tie strap (5).

Still holding the finger holes, open out the legs. Gentle foot or hand pressure on the spreader (3) will ensure that the legs are fully spread.

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**NOTE:** Always use the spreader where possible as this increases rigidity of the tripod. Being flexible, the spreader compensates for uneven ground. It can be removed and a dolly fitted. At the fullest extension of the spreader and with all legs fully retracted, the tripod can be used at its lowest operating height. Although the tripod can be set up lower than this without the spreader, it is NOT recommended as the tripod geometry becomes unstable

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Adjust the operating height by undoing the leg clamps (2) and pulling the tripod up to the desired height. Adjust the spreader (4) if necessary. Level the head using the level bubble.

Tighten the clamps (2) until an audible click is heard and the knob is in the horizontal, locked position.

In the case of a 'baby-legs' tripod, tighten the cleat rope spreader (8).

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**NOTE:** An optional, conventional floor spreader (3379-3) is available for the 'baby-legs' tripods.

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**WARNING!** It is possible to set the tripod legs so that the centre-of-gravity of the tilted payload falls outside the footprint of the tripod, leading to instability. Use a mid-level or floor spreader to ensure that the tripod legs are spread sufficiently so that the centre-of-gravity of the tilted payload remains within the footprint of the tripod. Secure the tripod with the tie-down hook (7) or hang a suitable weight from the hook.

---

**NOTE:** The Vision spreader protects floors and carpets as well as preventing the tripod legs sinking into soft ground and should be used at all times. If the floor spreader cannot be used, use Vision carpet feet and a 'Spread-Loc' mid-level spreader.

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## Optional equipment

### 'Spread-Loc' mid-level spreader

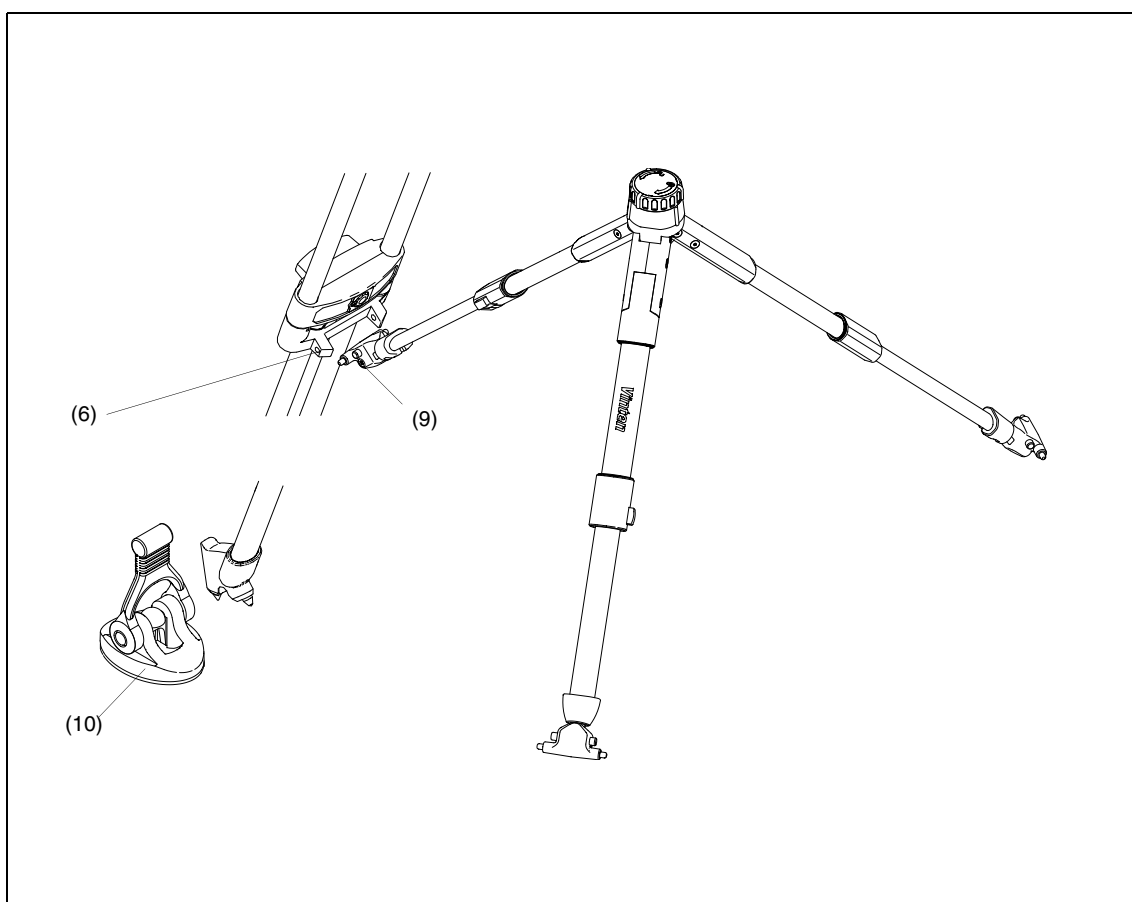
To install the spreader:

Grip the ends of each spreader arm in turn between thumb and fore-finger and press in the attachment release buttons (9).

Push the arm into the tripod attachment (6) until the release engages.

Fit the carpet feet (10).

To remove the spreader, press in the attachment release buttons (9) and free each arm in turn.



**Spread-Loc' mid-level spreader**

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## Carrying strap

A carrying strap is available as an optional accessory and is installed as follows:

### 150 mm bowl tripods

On the underside of the tripod bowl, identify the M6 tapped hole (18).

Position the bowl strap anchor (17) on the underside of the tripod bowl, ensuring it is correctly oriented. Using Loctite 221, secure the bowl strap anchor with the 25 mm M6 screw (16) supplied with the strap.

On the lower moulding of the corresponding leg, drive in the 'knock-out' (15) using a suitable tool. If possible, remove the blank from inside the moulding to prevent subsequent rattle.

Push a blind captive nut (14) into the hole in the lower moulding.

Using a suitable M5 screw, fully compress the blind captive nut. Remove the M5 screw.

Install a washer (13) on the lower strap anchor (12) and screw into the captive nut (14). Ensure that the hole in the strap anchor is oriented so that the karabiner (11.1) can be attached

Using the karabiners (11.1), clip the strap (11) to the strap anchors and adjust to length.

### 75 mm and 100 mm bowl tripods

On the lower moulding of the leg with the strap (5), drive in the 'knock-out' (15) using a suitable tool. If possible, remove the blank from inside the moulding to prevent subsequent rattle.

Push a blind captive nut (14) into the hole in the lower moulding.

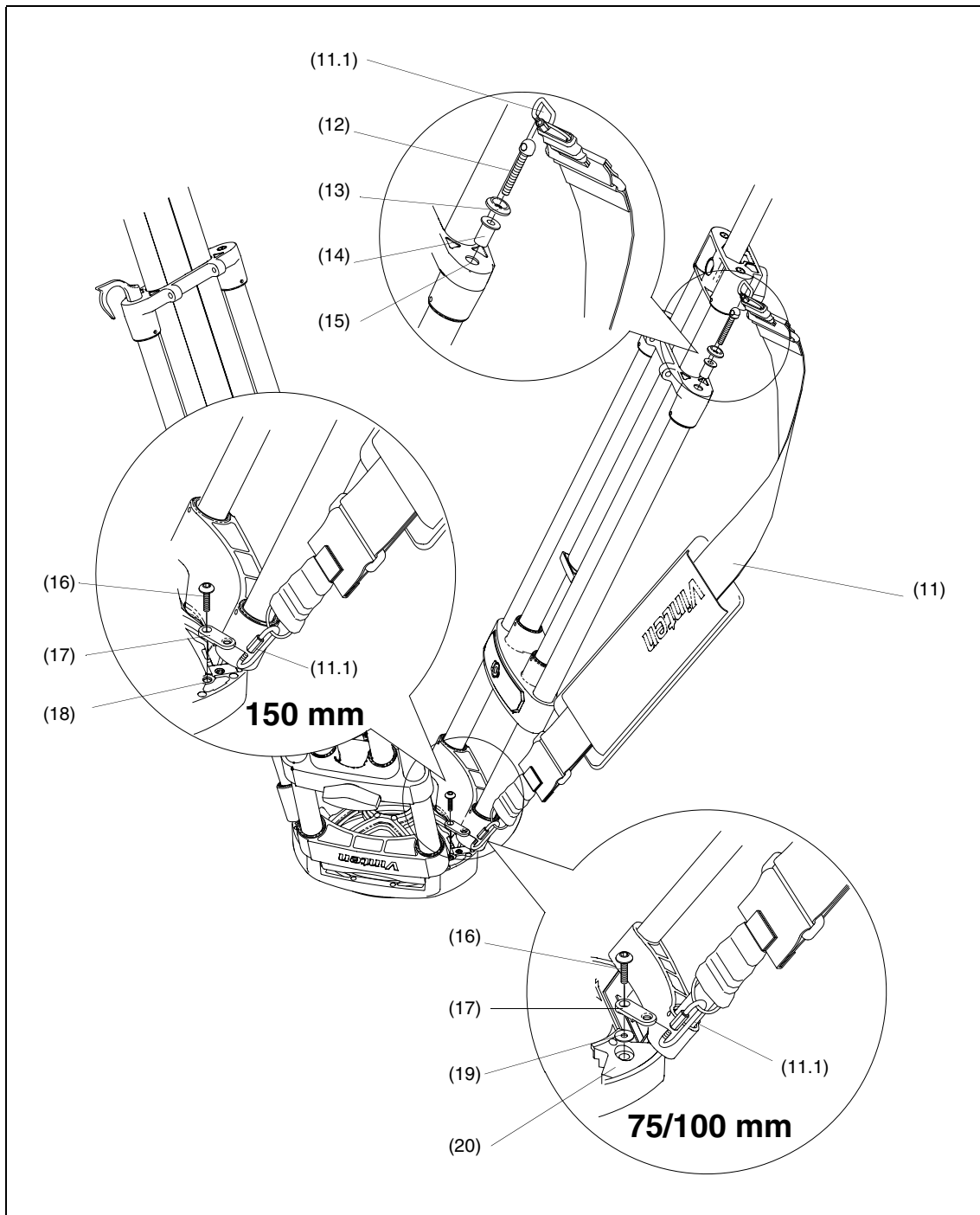
Using a suitable M5 screw, fully compress the blind captive nut. Remove the M5 screw.

Install a washer (13) on the lower strap anchor (12) and screw into the captive nut (14). Ensure that the hole in the strap anchor is oriented so that the karabiner (11.1) can be attached

On the underside of the tripod bowl, remove and discard the screw (16) securing the corresponding leg clamp (20). Do not remove the washer (19).

Position the bowl strap anchor (17) on the leg clamp, ensuring it is correctly oriented. Using Loctite 221, secure the bowl strap anchor with the 25 mm M6 screw (16) supplied with the strap. Tighten screw to a torque of 4.5 Nm (40 lbf in.).

Using the karabiners (11.1), clip the strap (11) to the strap anchors and adjust to length.



**Carrying strap**

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# Servicing

## General

Vision products are robustly made to high engineering standards and little attention is required to maintain serviceability save regular cleaning. Attention to the following points will ensure a long and useful service life with minimum need for repair.

## Cleaning

During indoor use, the only cleaning required should be a regular wipe over with a lint-free cloth. Dirt accumulated during storage may be removed using a semi-stiff brush. Particular attention should be paid to the mounting bowl of the tripod.

All tripod, spreader and dolly parts are weatherproof. However, use out-of-doors under adverse conditions will require special attention. Salt spray should be washed off with fresh water at the earliest opportunity. Sand and dirt acts as an abrasive and should be removed using a semi-stiff brush or vacuum cleaner.

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**NOTE:** Use only detergent-based cleaners. DO NOT use solvent- or oil-based cleaners, abrasives or wire brushes to remove accumulations of dirt, as these damage the protective surfaces.

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## Routine checks

During normal use, check the effectiveness of the leg clamps and adjust as necessary.

## Adjusting 'Pozi-Loc' leg clamps

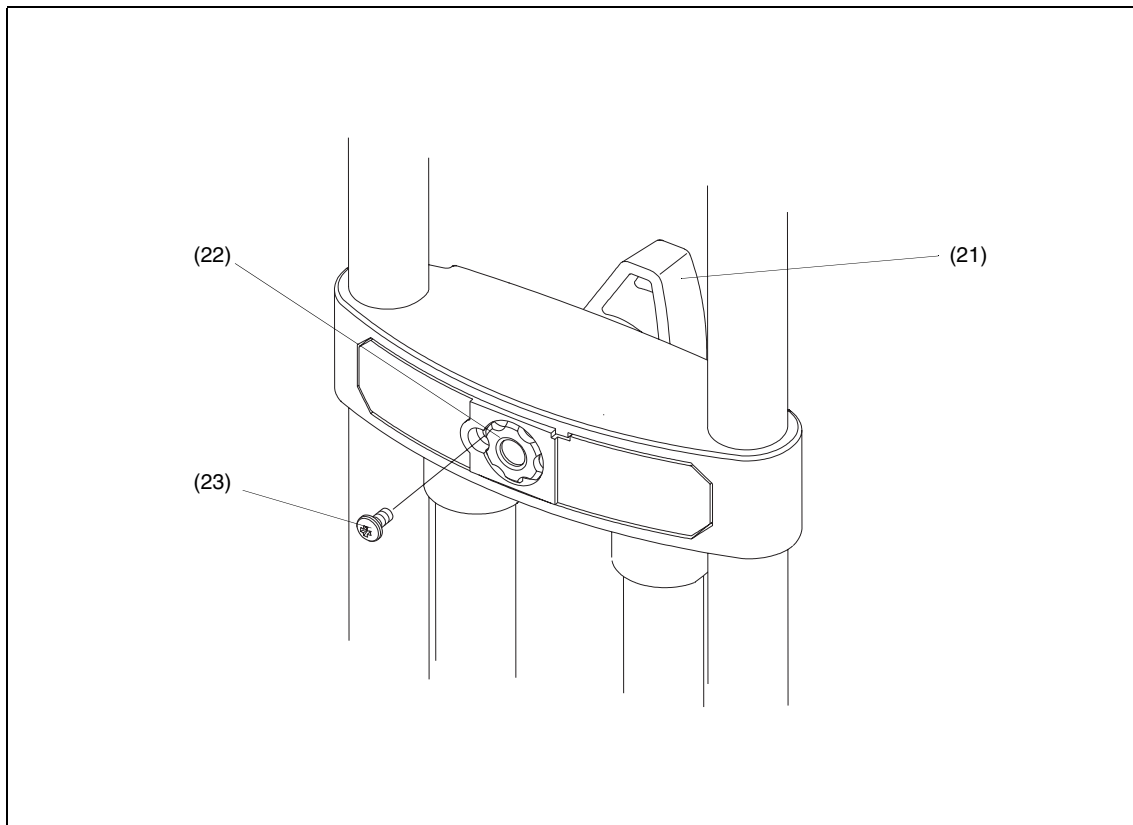
Bedding-in occurs with 'Pozi-Loc' leg clamps, which may necessitate resetting the clamp. Check the effectiveness of each leg clamp as follows:

- Extend all three tripod legs fully and apply the clamps (2).

- Position each leg in turn vertically on a set of weighing scales.

- Gradually apply body weight to the leg until either or both clamps begin to slip. Note the reading on the scales at which this occurs.

- A reading of less than 35 kg (77 lb) will necessitate adjustment.



## Top clamp

### Top clamp

Adjust a top clamp as follows:

Turn the clamp knob (21) to the vertical, 'off' position

Remove screw (23). Using a suitable peg spanner, back off the threaded insert (22) slot by slot until the leg is free to move under its own weight.

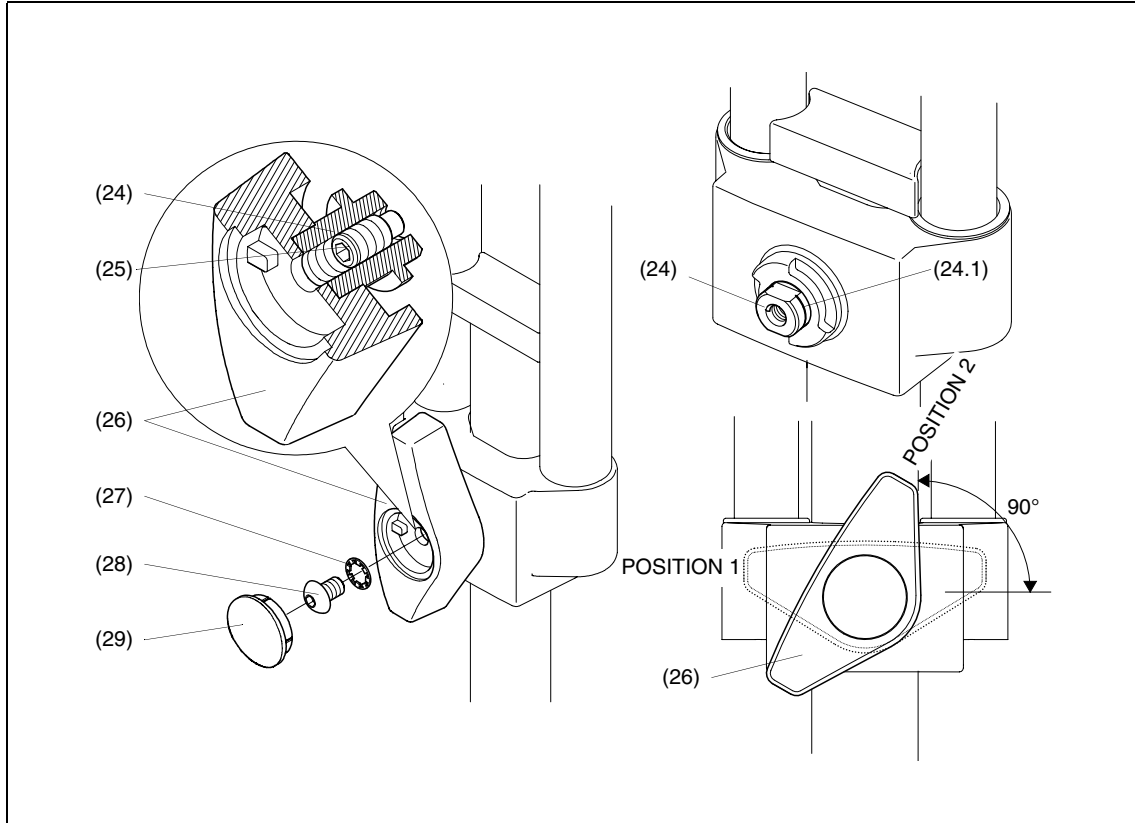
While sliding the leg in and out, gradually tighten the threaded insert (22) until the clamp begins to grip.

If not aligned, back off the threaded insert (22) until a slot aligns with the hole for screw (23).

**Carbon fibre tripods (black legs)** - back off the threaded insert (22) **two** slots.

**Aluminium tripods (grey legs)** - back off the threaded insert (22) **three** slots

Install screw (23) to secure the threaded insert (22).



## Bottom clamp

### Bottom clamp

Adjust a bottom clamp as follows:

Tighten the clamp (26) until an audible click is heard and the knob is in the locked position (Position 1).

Using a suitable instrument, such as a flat-bladed screwdriver, carefully remove the knob cap (29).

Remove the retaining screw (28) and washer (27), and pull off the clamp knob (26).

Examine the shaft (24). If there is an identifying groove (24.1) on the shaft, proceed as follows. Otherwise, consult **Vision Pozi-Loc Tripods - Spares and Repairs (Publication Part No. 3770-9)** or contact your local Vinten dealer.

Replace the clamp knob (26) and turn it to Position 2.

Using a 2.5 mm hexagonal wrench, slacken the grubscrew (24) until the leg is free to move under its own weight.



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With the knob still in Position 2, slide the leg in and out and gradually tighten the grubscrew (24) until the clamp begins to grip.

Back off the grubscrew (24) by a quarter-turn (90°).

Secure the clamp knob (26) with the washer (27) and retaining screw (28). Refit the knob cap (29).

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## Parts list

The following lists include main assemblies and optional accessories. For further information regarding repair or spare parts, please contact Vinten Broadcast Ltd or your local distributor.

For information on-line, visit our website at

**[www.vinten.com](http://www.vinten.com)**

### **Tripods**

Two-stage tripod, aluminium legs, 150 mm bowl	3880-3
Two-stage tripod, carbon fibre legs, 150 mm bowl	3881-3
Two-stage tripod, aluminium legs, 100 mm bowl	3770-3
Single-stage tripod, aluminium legs, 100 mm bowl	3771-3
Single-stage tripod, 2 metre, aluminium legs, 100 mm bowl	3796-3
Two-stage EFP tripod, aluminium legs, 100 mm bowl	3883-3
Two-stage tripod, carbon fibre legs, 100 mm bowl	3772-3
Single-stage tripod, carbon fibre legs, 100 mm bowl	3773-3
Two-stage EFP tripod, carbon fibre legs, 100 mm bowl	3884-3
Two-stage tripod, aluminium legs, 75 mm bowl	3774-3
Single-stage tripod, aluminium legs, 75 mm bowl	3775-3
Two-stage tripod, carbon fibre legs, 75 mm bowl	3776-3
Single-stage tripod, carbon fibre legs, 75 mm bowl	3777-3
Two-stage baby-legs tripod, aluminium legs, 150 mm bowl	3882-3
Two-stage baby-legs tripod, aluminium legs, 100 mm bowl	3778-3
Two-stage baby-legs tripod, aluminium legs, 75 mm bowl	3779-3

### **Floor spreaders**

Floor spreader, for tripods with aluminium legs	3313-3
Floor spreader, for tripods with carbon fibre legs	3363-3
Floor spreader, for Vision 3 systems	3394-3
Floor spreader, for baby-legs tripods	3379-3

### **Mid-level spreader**

'Spread-Loc' mid-level spreader	3781-3
Set of three feet (for use with mid-level spreaders)	3378-902SP

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## **Dollies**

ENG (OB) dolly	3319-3B
ENG (Studio) dolly	3319-3C
ENG (OB) dolly - small	3319-3ST
EFP (OB) dolly	3497-3E
EFP (Studio) dolly	3497-3G

## **Optional accessories**

Carrying strap	3425-3P
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