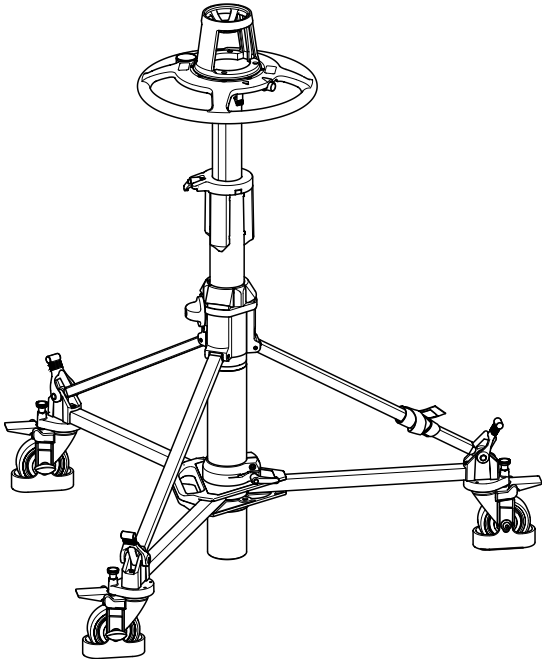
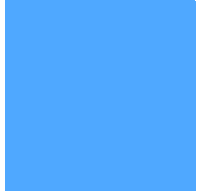


# Operators Guide

## Vision Ped *Plus*



## Studio Pedestal

**Vinten**  
Camera Control Solutions

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# **Vision Ped *Plus***

## **Studio Pedestal**

**Publication Part No. 3951-8      Issue 1**

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## Safety - read this first

### Warning Symbols in this Operators Guide



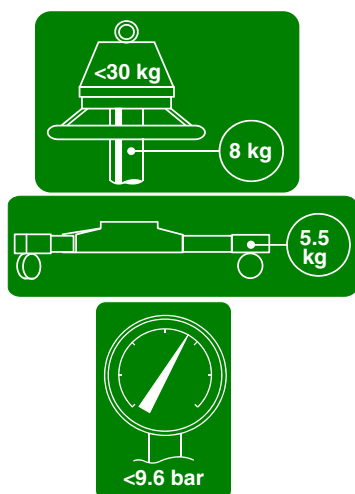
Where there is a risk of personal injury, injury to others, or damage to the pedestal or associated equipment, comments appear, highlighted by the word **WARNING!** and supported by the warning triangle symbol.

### Warning symbols on the pedestal



On encountering the warning triangle and open book symbols it is imperative that you consult this operators guide before using this pedestal or attempting any adjustment or repair.

## Critical data



### Mass

Column	8 kg (17.6 lb)
Skid	5.5 kg (12.1 lb)

### Load

Maximum load	30 kg (66 lb)
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### Pressure

Maximum pressure	9.6 bar (139 psi)
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## Further information

For further information or advice regarding this pedestal, please contact Vinten Broadcast Limited, your local Vinten distributor (see back cover) or visit our website.

For details on maintenance and spare parts, please refer to the Vision Ped Plus Maintenance Manual and Illustrated Parts List (Publication Part No. V3951-4990) 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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## Technical data

Payload	30 kg (66 lb)
Column weight	8 kg (17.6 lb)
Skid weight	5.5 kg (12.1 lb)
Total pedestal weight	13.5 kg (29.7 lb)
Minimum height to 100 mm bowl adaptor mounting face	75.1 cm (29.6 in.)
Maximum height to 100 mm bowl adaptor mounting face	159.5 cm (62.8 in.)
Minimum height to flat mounting face	63.7 cm (25.1 in.)
Maximum height to flat mounting face	148.1 cm (58.3 in.)
On-shot stroke	41.0 cm (16.1 in.)
Wheel diameter	10.0 cm (4 in.)
Skid leg radius	55.85 cm (22.0 in.)
Doorway tracking width	95.6 cm (37.6 in.)
Transit doorway width	73.3 cm (28.9 in.)
Steering ring diameter	35.0 cm (13.8 in.)
Max working pressure	9.6 bar (139 psi)
Relief valve pressure	11.0 bar (160 psi)

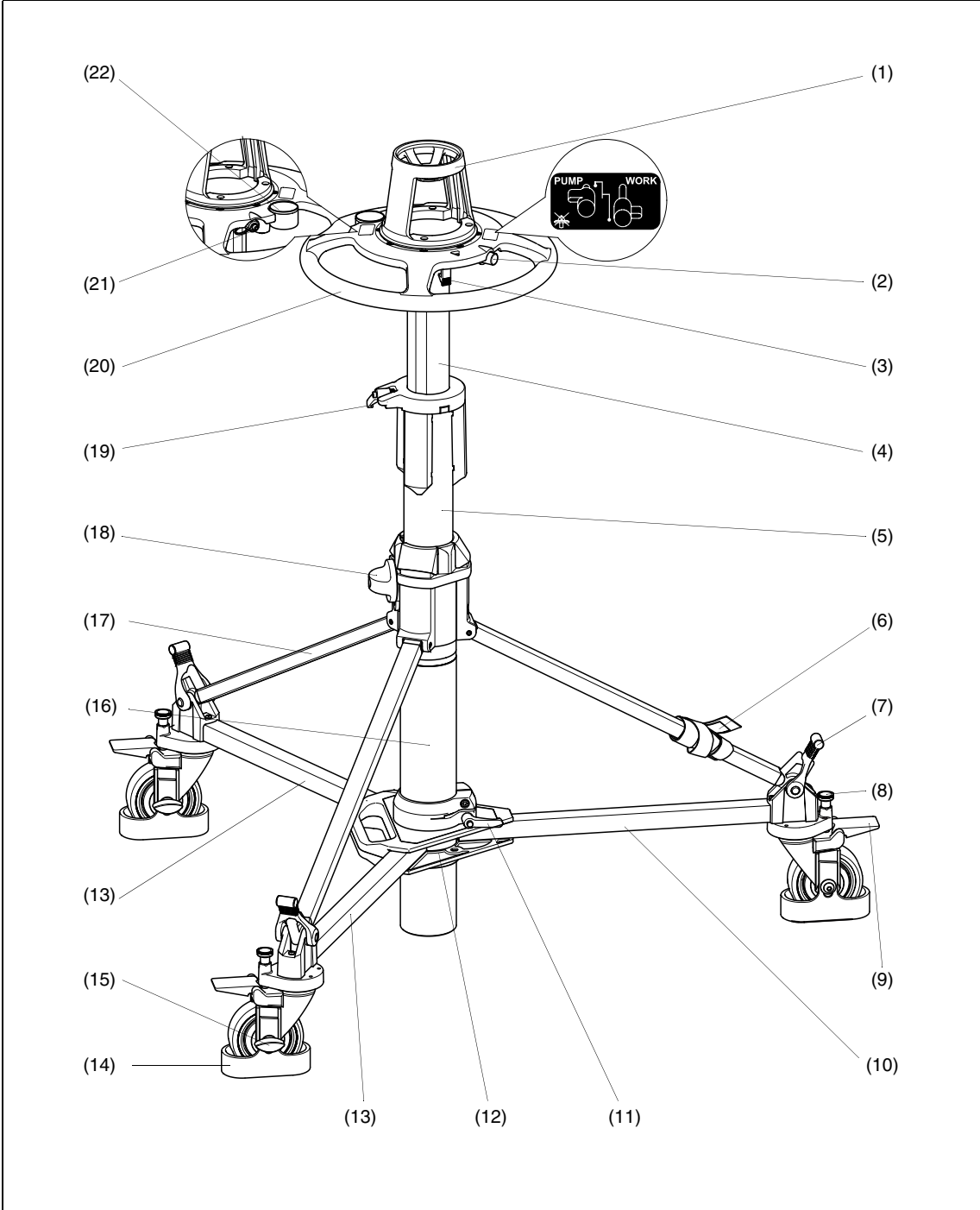
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## Associated Publication

Vision Ped Plus Pedestal  
Maintenance Manual and illustrated Parts List  
Publication Part no. V3951-4990



**Vision Ped *Plus* studio pedestal**

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(1)	100 mm levelling bowl adaptor
(2)	Control valve
(3)	Safety catch
(4)	Tank assembly
(5)	Elevation tube
(6)	Velcro strap
(7)	Foot support and strap
(8)	Track locking pin
(9)	Brake
(10)	Fixed leg
(11)	Skid clamp
(12)	Skid centre casting
(13)	Folding leg
(14)	Cable guard
(15)	Cable guard adjustment knob
(16)	Outer tube
(17)	Strut
(18)	Bottom clamp
(19)	On-shot clamp
(20)	Steering ring
(21)	Schrader valve and cap
(22)	Pressure gauge

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## Introduction and Description

The Vision Ped Plus studio pedestal is a fully-portable pneumatic camera mount, designed to support a payload of up to 30 kg (66 lb). It comprises a central telescopic column and a skid assembly with castoring wheels. To facilitate transport, the telescopic column and skid may be separated and the skid folded.

The telescopic column consists of an outer tube, which locates in the skid and has three struts to provide the pedestal strength and stability; an elevation tube, which is positioned relative to the outer tube and defines the working height of the pedestal; and a tank assembly, which forms the upper, moving part of the pedestal, provides the balancing force for the payload and acts as a pump for pressurization.

The skid comprises a centre casting with carrying handle, a fixed leg and two folding legs. Each leg carries a braked castoring wheel and a foot support with strap to support the column. The skid has 100 mm (4 in.) wheels with cable guards and track locks which provide castor, track or steer movement of the pedestal.



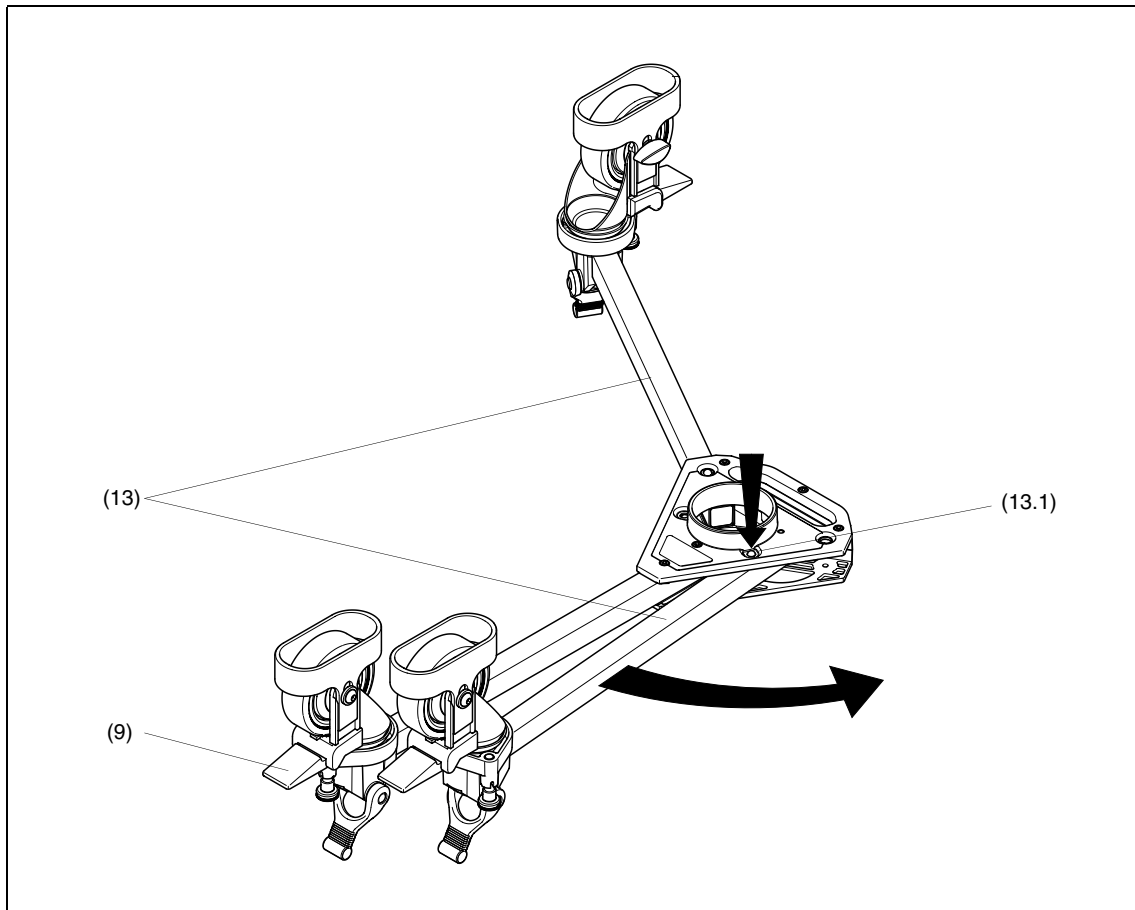
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## Operation

### Assembling the pedestal Skid

Turn the skid upside-down, depress the leg locking plungers (13.1) and swing each folding leg (13) out until the plungers lock the legs in the fully open position.

Set the skid on the ground on its wheels and apply the wheel brakes (9).



**Skid**

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## Column

Instal the column on the skid as follows:

Fully slacken the skid clamp (11).

Ensure the control valve (2) is set to the WORK position.

Release the Velcro retaining strap (6).

Hold the telescopic column upright with the steering ring (20) uppermost and swing the three struts (17) up almost to horizontal.

Lift the column assembly by the steering ring and lower it vertically into the skid centre casting, ensuring bottom clamp knob (18) is aligned with skid handle. Engage the struts (17) on the foot supports (7).

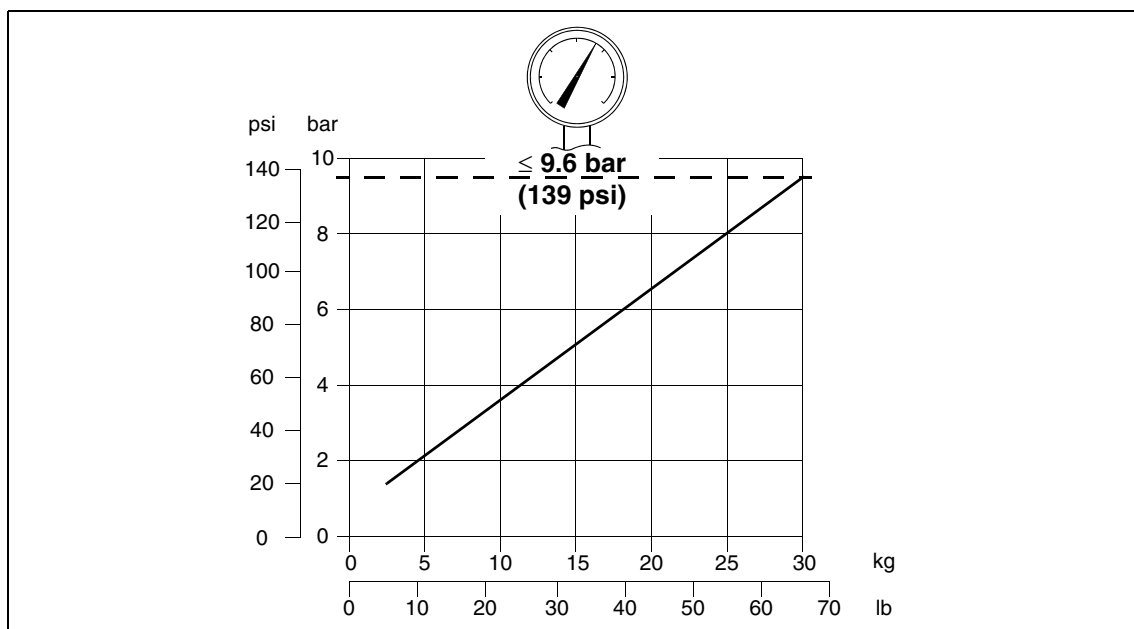
Secure each strut to the foot support with the rubber strap. Tighten the skid clamp (11), using moderate hand pressure only.

Secure the Velcro retaining strap (6) clear of the skid wheels.

## Pressurizing the pedestal

The Vision Ped Plus pedestal may be pressurized using the built-in pump, by using the Vinten Portable Pump or from an external pressure source.

Ascertain the payload to be fitted to the pedestal (payload = pan and tilt head, camera, lens and all ancillary equipment). Referring to the graph, mark the payload on the horizontal axis then strike a vertical line from the load figure to the balance line. At the intersecting point strike a horizontal line to the vertical axis and read off the required gas pressure.



**Pressurization graph**

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## Pressurizing the pedestal using the built-in pump

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**WARNING!** Do not pressurize the pedestal beyond the maximum safe working pressure indicated by the leading edge of the red sector on the gauge. The pedestal is fitted with a pressure relief valve as a safeguard against over-pressurization. Do not attempt to adjust the pressure relief valve. Remove the payload before pumping.

---

To pressurize the pedestal using the built-in pump, proceed as follows:

Set the control valve (2) to the PUMP position.

Ensure that the bottom clamp (18) is engaged.

Remove the payload, if fitted.

Slacken the on-shot clamp (19).

Push down on the steering ring (20) against any residual pressure and release the safety catch (3) Set the safety catch in the horizontal position.

Using the steering ring (20), raise the top stage until fully extended. Commence pumping by lowering and raising the top stage over the upper half of its travel. When the pressure gauge (22) begins to register, pump the top stage over its full stroke. Stop pumping when the required working pressure is reached during the pumping stroke.

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**WARNING!** A pressurized pedestal will rise rapidly if the control valve is set to WORK. Do not move the control valve directly from PUMP to WORK.

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Set the control valve (2) to the midway position between PUMP and WORK and allow the top stage to rise fully.

Set the control valve (2) to the WORK position.

Install the camera mount and payload and balance the load as described below.

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## Pressurizing the pedestal using the Vinten portable pump

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**WARNING!** Do not pressurize the pedestal beyond the maximum safe working pressure indicated by the leading edge of the red sector on the gauge. The pedestal is fitted with a pressure relief valve as a safeguard against over-pressurization. Do not attempt to adjust the pressure relief valve.

---

To pressurize the pedestal using the Vinten portable pump, proceed as follows:

Fully depress the moving column (4) and engage the safety catch (3).

On the pump, fold down both the feet (P.3).

Push in the handle release button (P.5) and move the handle (P.1) to the horizontal position, where it will lock.

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Pull the hose (P.4) out of its stowage (P.2). Connect the hose to the pedestal charging valve (21).

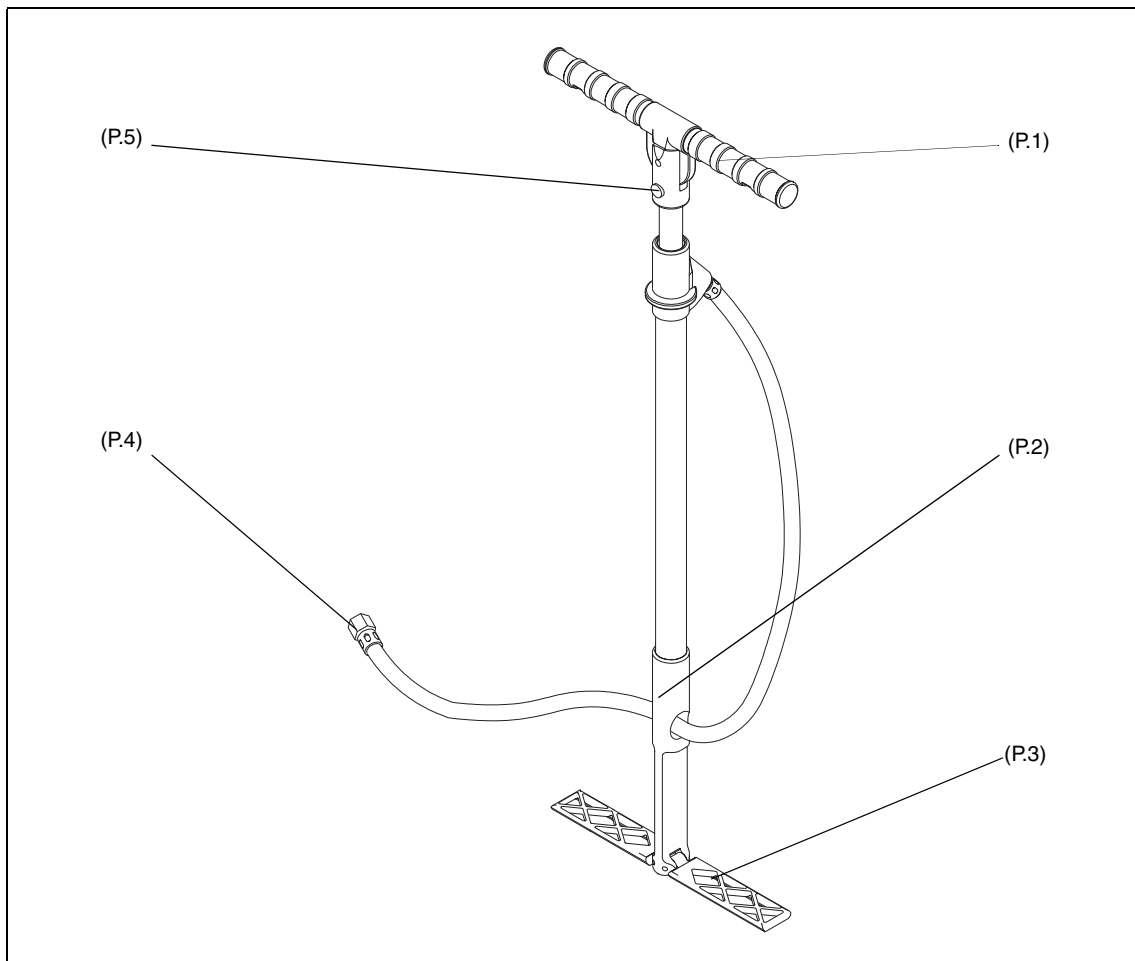
Position the pump between the legs, standing with both feet on the fold-down feet (P.3).

Grip the handle (P.1) with both hands and, using full steady strokes, pressurize the pedestal to the required pressure. Do not exceed the maximum working pressure, indicated by the leading edge of the red sector on the gauge (22).

Disconnect the hose (P.4) from the pedestal charging valve, but do not refit the Schrader valve cap at this stage. Fit the hose in its stowage (P.2).

Push the pump plunger fully down, push in the handle release button (P.5) and move the handle (P.1) to the vertical position, where it will lock the pump plunger in the closed position.

Fold up both the feet (P.3).



**Vinten portable pump**

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## Pressurizing from an external pressure source

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**WARNING!** This pedestal must be pressurized only with clean, dry air or nitrogen. A pressure reducing valve must be fitted to the pressure line between the gas cylinder and the outlet connection of the hose. The reducing valve must be screwed into the gas cylinder outlet. The maximum pressure on the outlet side of the reducing valve must not exceed 9.6 bar (139 psi). Do not pressurize the pedestal beyond the maximum safe working pressure indicated by the leading edge of the red sector on the gauge. The pedestal is fitted with a pressure relief valve as a safeguard against over-pressurization. Do not attempt to adjust the pressure relief valve.

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To pressurize the pedestal from an external pressure source, proceed as follows:

Fully depress the moving column (4) and engage the safety catch (3).

Remove the Schrader valve cap (21) and connect the charging line from the pressure source.

Turn on the pressure supply and slowly increase the pedestal pressure to the required pressure. Do not exceed the maximum working pressure, indicated by the leading edge of the red sector on the gauge (22).

Disconnect the charging line, but do not refit the Schrader valve cap at this stage.

## Fitting and balancing the load

After pressurization of the pedestal, the camera mounting and payload can be fitted and balanced.

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**WARNING!** Fit the camera mounting and payload with the moving column depressed and the safety catch (3) engaged.

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The Vision Ped Plus pedestal is supplied with a 100mm bowl mount which may be removed to enable the standard four-bolt flat mounting plate to be used.

When the camera mount has been secured proceed as follows:

Fit the payload to the fully-depressed top stage of the pedestal, ensuring that all items such as pan bars, prompts, lenses etc, are fitted. Attaching these items at a later stage may upset the pedestal balance.

Push down on the steering ring (20) against any residual pressure and release the safety catch (3) Set the safety catch in the horizontal position. Allow the column to extend fully.

Using the Schrader valve cap (21), carefully reduce the pressure in steps of 0.15- 0.20 bar (2-3 psi) until the payload is correctly balanced. A correctly pressurized pedestal will bal-

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ance its payload such that it may be moved to any position over the full on-shot stroke with minimum effort and will maintain its position when the steering ring is released.

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**WARNING! The Schrader valve cap (21) forms a primary pressure seal. Always replace the cap and screw it down finger-tight.**

---

## Using the pedestal

### Height adjustment

#### Lower stage

The elevation tube (5) forms the lower stage of the pedestal height adjustment and has a range of 434 mm (17.1 in.) and is pressure-assisted to aid elevation whilst the pedestal is loaded. To adjust the height setting:

Lower the top stage (4) and engage the safety catch (3).

Support the weight of the load by holding the steering ring and then slacken the bottom clamp (18) by turning the red knob counter-clockwise until the lower stage is free to move.

Use the steering ring to set the column at the required height and re-tighten the bottom clamp (18).

#### Top stage

The top stage of the column has an on-shot stroke of 410 mm (16.1 in.) and the load can be moved over this distance, in balance, by raising or lowering the steering ring.

A clamp (19) for the top stage is fitted to the pedestal. This can be used to hold the top stage in position if fixed-height operation is required. Turn the clamp lever clockwise to apply the clamp and counter-clockwise to release it.

### Brakes

Each of the skid wheels is fitted with a foot operated brake (9). The brake is applied by pressing down on the lever situated above the wheel and released by pressing down on the centre 'pop-up' lever which is raised when the brake is on.

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**WARNING! Always apply the brakes when the pedestal is left unattended.**

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### Cable guards

The cable guards (14) are height-adjustable and should be set as required. Adjustment is carried out by slackening the knobs (15), setting the cable guards at the required height and re-tightening the knobs.

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## Pedestal movement

The wheels on the studio version of the skid can be locked in the straight-ahead position or set to castor freely. The castor/lock changeover is effected by spring-loaded track lock pins (8) on each wheel assembly. The pins on the folding legs have black knobs and the pin on the fixed leg has a red knob. To engage or disengage a pin, pull it up against the spring and turn through 90°. The pin will only engage with the wheel when the wheel is properly aligned. This arrangement provides castor, track and steer motion.



**WARNING!** To ensure maximum stability, particularly when moving over uneven ground, reduce pedestal height to a minimum.

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### Castor motion

For castor motion, disengage all three track locks. The skid can now be moved freely in any direction.

### Tracking motion

For tracking motion, engage all three track locks. The skid can now track backwards and forwards in a straight line.

### Steer motion

For steer motion:

Position the skid so that the fixed leg (with the red knob) is in the direction of travel. Disengage the red track lock.

Engage the black track locks.

With the fixed leg of the skid facing forwards the skid can now be moved with a 'steering-type' motion.

## Transportation and storage



**WARNING!** Local, national or international regulations may apply to the transport and storage of pressurized pedestals.

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**NOTE:** It is not necessary to reduce the pedestal pressure prior to transportation or storage. To avoid the possibility of dust or abrasive particles collecting on moving components, set the column to minimum height.

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The column and skid may be separated to facilitate transport or storage.

To separate the column and skid:

Lower the top stage (4) and engage the safety catch (3).

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Lower the elevation tube (5) as far as possible.

Tighten the bottom clamp (18).

Remove the load.

Release the skid clamp (11) and the rubber securing straps (7). Lift the struts clear of the foot supports.

Use the steering ring to lift the telescopic column vertically until it is clear of the skid assembly, then secure the struts with the retaining strap.



**WARNING! The column will be unstable if stood on its base or on the folded struts.**

---

Depress each leg locking plunger on the underside of the skid and fold the legs.



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# Servicing

## General

The Vision Ped Plus pedestal is 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 normal studio use, the only cleaning required should be a regular wipe over with a lint-free cloth. Dirt accumulated during storage or periods of disuse may be removed with a semi-stiff brush. Particular attention should be paid to the flats on the top stage of the column.

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**NOTE: Do NOT use oil or grease on any exposed part of the column. This is unnecessary and traps dirt which acts as an abrasive.**

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Use out-of-doors will require special attention, especially in adverse conditions. Salt spray must be washed off with fresh water at the earliest opportunity. Do not allow water to enter the column. Sand and dirt acts as an abrasive and should be removed with 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

Check the following points during normal use:

- Check for ageing and cracking of the rubber securing straps and renew if necessary.
- Check the effectiveness of the clamps.
- Check the skid tracking
- Check for radial or side play in the top stage.

## Adjustments

Adjustments which may become necessary after considerable use are as follows:

- Taking up wear in the bottom clamp.
- Taking up wear in the top clamp and the skid clamp.
- Skid wheel alignment
- Elimination of radial and side play on the top stage.

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## Bottom clamp adjustment

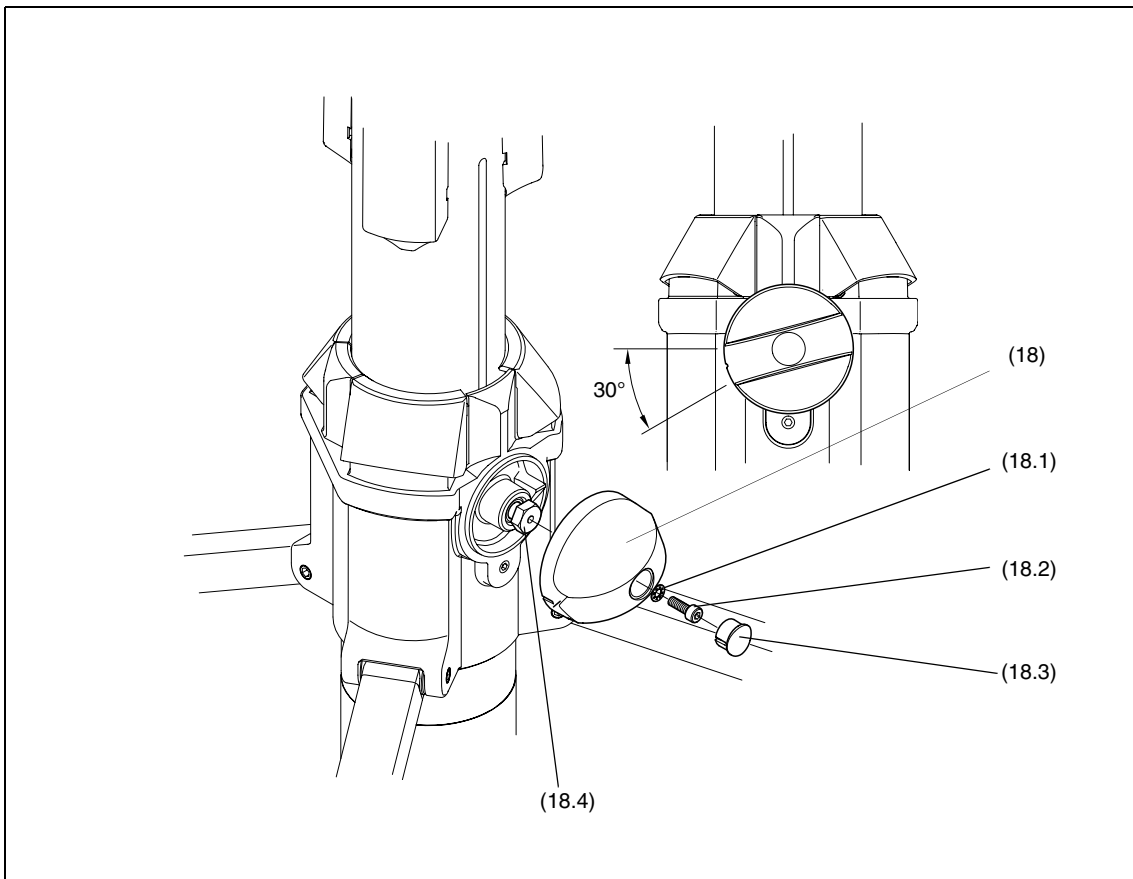
When applied finger-tight, the 'V' notch on the bottom clamp knob (18) should be within the limits shown. To adjust the bottom clamp:

Remove the hole plug (18.3). Remove the screw (18.2) and washer (18.1) securing knob (18) to the spindle (18.4).

Remove the knob and turn the spindle (18.4) clockwise until finger-tight.

Replace the knob (18) on the spindle (18.4) so that the 'V' notch on the clamp knob is within the limits shown.

Degrease screw (18.2), coat with Loctite 222E and secure knob with washer (18.1) and screw (18.2). Replace hole plug (18.3).



**Bottom clamp adjustment**

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## Top clamp and skid clamp adjustment

The top clamp (19) and skid clamp (11) are applied and released by turning the handle clockwise or counter-clockwise. Both handles have push-on/pull-off type ratchet adjustment.

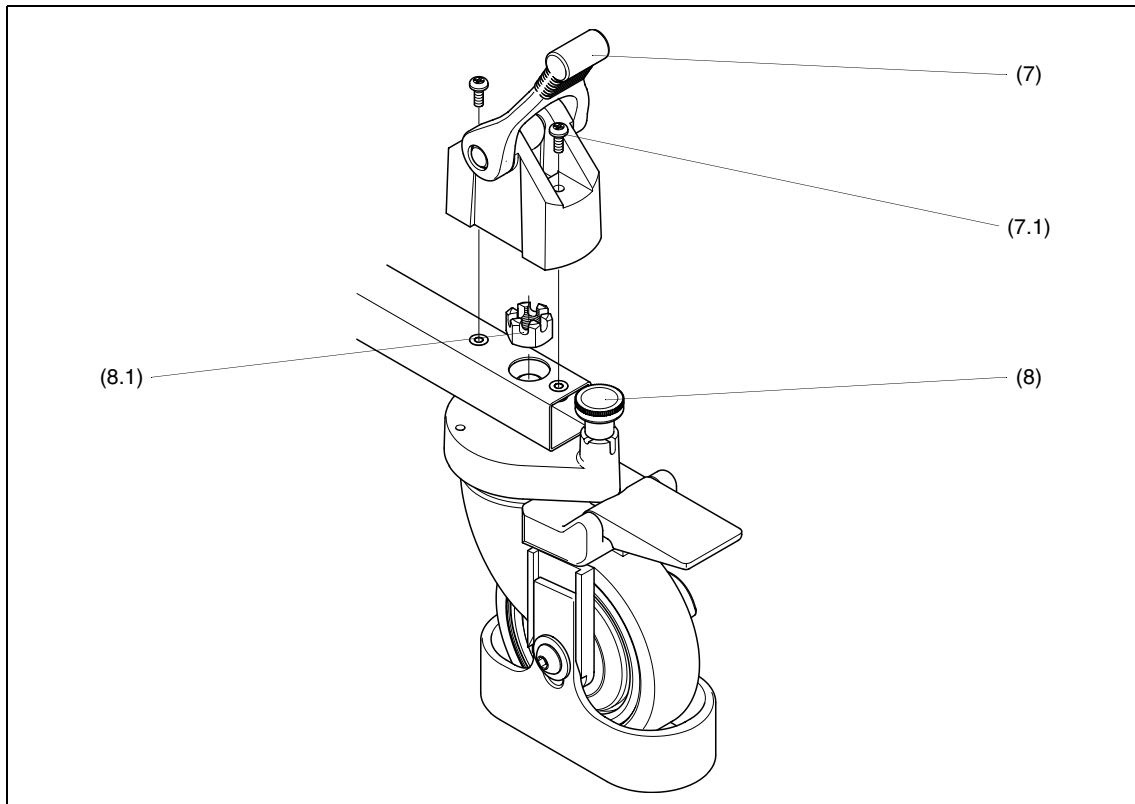
To adjust the top and skid clamps pull the clamp handle away from the spindle, rotate it clockwise and release.

Repeat the above procedure, as necessary, until the clamp locks when applied but allows free movement when released.

## Skid tracking

Adjustments to the tracking of the skid may become necessary after considerable use. Check the tracking as follows:

With the track locks engaged and a payload fitted, the skid should track in a straight line over a distance of 3.6 m (12 feet) with deviation not exceeding 5 cm (2 in.). If this cannot be achieved, the wheels should be re-aligned. When re-aligning the wheels, start by adjusting the wheel with the red locking knob on the fixed leg. This will often correct any alignment problems.



**Skid tracking**

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To re-align the skid wheels:

Remove the column from the skid.

Engage the track lock (8) on each castor.

Remove two screws (7.1) from the foot support (7) on the fixed leg and remove the foot support.

Using a suitable spanner remove nut (8.1) (a spanner is available from Vinten Part No. 3319-900SP).

Apply Loctite 242 to the nut, re-install and tighten lightly.

Align the wheel on the fixed leg so that it runs parallel to the leg.

Using a suitable straight line on the studio floor, check that over a distance of 3.6 m (12 feet) the deviation does not exceed 5 cm (2 in.). Re-adjust the wheel until this is achieved. If it cannot be achieved, the wheels on the other two legs should be re-aligned.

Once the wheels have been correctly aligned, tighten nuts (8.1).

Install foot support (7) on each leg and secure with two screws (7.1).

## **Elimination of radial and side play on the elevation tube or top stage**

If excessive radial or side play is apparent on the elevation tube or top stage, refer to the appropriate section in the Maintenance Manual. This adjustment should be carried out by a competent person.

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## Parts List

The following list includes the main assemblies, user-replaceable spare parts and optional accessories. For further information regarding repair or spare parts, please contact Vinten Broadcast Limited or your local distributor.

For information on-line, visit our website at:

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

### **Main assemblies**

Vision Ped Plus studio pedestal	V3951-0001
Column	V3951-1000
Studio skid	V3955-0001
100 mm levelling bowl	3330-16

### **Optional accessories**

Vinten portable pump	3357-3
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