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## KEY FEATURES

- MODERN OPERATING SYSTEM.
- PROFILE DESIGNS CAN BE DIRECTLY COPIED OR ADAPTED AS REQUIRED.
- LOWER OPERATING FORCES THAN TRADITIONAL BOX SASH.
- SPIRAL CONSTANT FORCE BALANCES.
- LOWER MANUFACTURING COSTS.
- LOWER MATERIAL COSTS.
- TRADITIONAL & MODERN HARDWARE OPTIONS AVAILABLE.
- LOW MAINTENANCE WINDOW.
- SASH RESTRICTION AVAILABLE.
- SECURITY OPTIONS AVAILABLE.
INTRODUCTION

CONVENTIONAL TIMBER MANUAL

Conventional Timber Manual is the complete manual to give you the widest choice of hardware to enable user to produce a high performance timber vertical sliding window.

This manual is intended to give recommendations on how to prepare and assemble traditional sash windows in timber using components provided by Caldwell Hardware (UK) Ltd.

No attempt is made to design the timber mouldings for the sashes or outer frame of the window but guidance is given where dimensions are critical to the assembly or operation of the window.

Where cutting sizes or deductions are given, these should be checked for applicability to specific window designs.

In addition to providing this manual, we are pleased to advise window manufacturers on the use of components within their own window designs.

FOR FURTHER INFORMATION PLEASE CONTACT:-

Caldwell Hardware (U.K.) Ltd
Registered Office & Works: Herald Way
Binley Industrial Estate
Coventry
CV3 2RQ
England

Telephone: 024 7643 7900
Fax: 024 7643 7969
Web Site: www.caldwell.co.uk
E-mail: sales@caldwell.co.uk

All of the information shown on this data sheet was correct at the time of issue. All information however is subject to change and therefore it is advisable to check with Caldwell Hardware to ensure that you have the latest issue level.
GENERAL DETAILS

SPIREX - For sashes up to 13.5kg
SPIRALIFT - For sashes between 13.5kg and 18kg

All of the above have a tube diameter of 13.5mm. The minimum groove size should be 18mm x 18mm.
Finish: Natural aluminium as standard.

Also available in white or brown PVC-U sleeve, please mark accordingly if required.

ULTRALIFT FACTORY TENSIONED BALANCES
For sashes between 5.5kg and 27kg.
With ±1kg on site adjustment. They have a tube diameter of 17mm.
The minimum groove size should be 21mm x 21mm.

Available in white, brown or grey PVC-U sleeve, please specify colour when ordering.

TORSO FACTORY TENSIONED BALANCES
For sashes up to 45kg. Tube diameter of 17mm.
The groove size should be 21mm x 21mm.

Available in white, brown or grey PVC-U sleeve, please specify colour when ordering.

NOTE: Torso and Ultralift are factory tensioned balances pre-set to the pre-determined sash weights.
Due to the nature of the product, cancellation charges will apply should the order be changed or
cancelled after we have received the official order.

SASH WEIGHT CALCULATIONS
It is preferable that accurate glazed sash weights are provided when ordering, if this is not possible then we are
prepared to calculate the approximate sash weights based on the information provided. We cannot accept any
responsibility for goods supplied incorrectly if accurate sash weighs have not been provided.

NOTE: Balance lengths are calculated on the assumption that the fixed position of the balance is directly
underneath the head. If other please state.
All of the information shown on this data sheet was correct at the time of issue. All information however is subject to change and therefore it is advisable to check with Caldwell Hardware to ensure that you have the latest issue level.
All of the information shown on this data sheet was correct at the time of issue. All information however is subject to change and therefore it is advisable to check with Caldwell Hardware to ensure that you have the latest issue level.
WEATHERSEAL ACCESSORIES

Brush Pile

A high quality brush pile with a central weather fin manufactured from polypropylene giving low friction properties and offering additional weather performance and sealing characteristics. The pile can either be used in the following three ways:-

1) Fitted directly to grooves in pvc or aluminum profiles,
2) fitted to the timb-a-tilt jamb liner (timb-a-tilt only) or
3) fitted to the brush pile holder as detailed below (for both conventional or timb-a-tilt windows).

Pile base width: 4.8mm  
Pile height: 7mm  
Caldwell Part No: UK687

Brush Pile Holder

A brush pile holder suitable for brush piles with a 4.8mm base width. The holder is manufactured from rigid pvc and is available in both white or brown and simply pushes into a "T" slot when machined in timber profiles (see fig 2).

Caldwell Part No. UK688

Bubble Seal

A 7mm diameter rubber bubble seal for horizontal sealing of top & bottom sashes on vertical sliding windows. Seal simply pushes into a 3mm x 5mm groove when machined in timber profiles (see fig 3).

Caldwell Part No. UK689
BRASS ACCESSORIES

Other brass accessories are also available. Please contact Caldwell to discuss any requirements.

Caldwell’s range of brass hardware is supplied in a lacquered finish. If this is to be used externally then it should be waxed weekly to protect the lacquered finish. Over time, and subject to the environment it operates within plus the type of use it undergoes, the lacquer coating will be eroded. When the lacquer coating is no longer present then the brass surface will need to be maintained with a propriety brass cleaner on a regular basis to maintain appearance and prevent visible corrosion.

Please note. These products are brass castings and therefore subject to slight dimensional differences inherent in the manufacturing process.

Other brass accessories are also available. Please contact Caldwell to discuss any requirements.
Vertical sliding window travel stops are required whenever Caldwell spring balances are used.

**Suitable for Conventional Timber Windows**

- Available in white or brown

- **UK190N**
  - Upper Sash Travel Stop
  - 120mm Long
  - Locates on Cill

- **UK191N**
  - Lower Sash Travel Stop
  - 38mm Long
  - Locates at Head

**Suitable for Caldwell’s Timb A Tilt Profile**

- Available in white or brown
- Also available in alternative lengths

- **TT220STOP**
  - Upper Sash Travel Stop
  - 220mm Long
  - Locates on Cill

- **UK233**
  - Lower Sash Travel Stop
  - 130mm Long
  - Locates at Head

**DO NOT OPERATE THE WINDOW UNTIL THE UPPER AND LOWER TRAVEL STOPS ARE FITTED**

For further information on travel stops, please request a copy of DATASHT-00332 guide to travel stops.

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Travel stops are essential whenever spring balances are in use. Travel stops ensure that the spring balances do not become damaged or prematurely worn. Travel stops are required at both the top of the window and at the bottom.

Travel stops are available from most of the major window system companies and these are usually profile specific. Caldwell also offer a range of travel stops.

The principal failure mode on spring balances where travel stops are not fitted are over extension and under extension. Both of these failure modes result in the balances being damaged beyond repair and will almost certainly mean that the balances will have to be replaced.

Over extension occurs when the upper sash is pulled downwards beyond the working range of the balance, this can result in internal damage within the spring balance. Travel stops prevent this from happening by limiting the travel of the sash.

Under extension occurs if the lower sash is lifted up until it hits the bottom of the balances, again this can result in internal damage within the spring balance. Travel stops prevent this by limiting the travel of the sash.

**DO NOT OPERATE THE WINDOW UNTIL THE UPPER AND LOWER TRAVEL STOPS ARE FITTED.**

**Travel stop lengths**

Caldwell recommend the minimum size of travel stops to be fitted to an equally split vertical slider are:

- Upper sash travel stop = 220mm
- Lower sash travel stop = 130mm

The above sizes should always be used with Caldwell spring balances, however longer stops can be used if required.

For every 25mm that the upper sash is smaller than equally split, 50mm must be added to the upper sash travel stop length.

If horns are used, reduce the calculated length of the travel stop by the length of the horn.

For further information, please contact Caldwell Technical Department.

**CONVENTIONAL TIMBER SYSTEM TRAVEL STOPS**

On a conventional timber system, a UK190N-Upper Sash Travel Stop and a UK191N-lower Sash Travel Stop can be used (see datasheet 00333). NOTE: If the UK190N & UK191N are used, they need to be positioned correctly to limit travel adequately (method shown below). Alternatively, a block of timber cut to length can be used. All stops should be fitted as described below.

Carefully lift the lower sash until resistance is felt i.e. the balance is fully retracted. Pencil mark one jamb in line with the top of the sash.

Fix a limit stop with its bottom edge 13mm below the mark. Raise the sash to the limit block and fix a second block to the opposite jamb.

Carefully lower the upper sash until resistance is felt i.e. the balance is fully extended. Pencil mark one jamb in line with the bottom of the meeting rail.

Fix a limit stop with its bottom edge 13mm above the mark. Lower the sash to the limit block and fix a second block to the opposite jamb.

All of the information shown on this data sheet was correct at the time of issue. All information however is subject to change and therefore it is advisable to check with Caldwell Hardware to ensure that you have the latest issue level.
FRAME AND SASH PREPARATION FOR TIMBER WINDOWS

SPIREX & SPIRALIFT BALANCES

(i) MACHINED SASH METHOD

Fig 1: Sash groove dimensions

Fig 2: Side fix options

Fig 3: Side fix to horn. When fixing ALWAYS put screws through at least the top and bottom holes.

(ii) MACHINED FRAME METHOD

Fig 4: Frame groove dimensions

Fig 5: Bottom fix.

Fig 6: Side fix to horn with sliding bracket facility sink UK121 in unitl it is flush.

All of the information shown on this data sheet was correct at the time of issue. All information however is subject to change and therefore it is advisable to check with Caldwell Hardware to ensure that you have the latest issue level.
INSTALLATION PROCEDURE
SPIREX & SPIRALIFT BALANCES

*IMPORTANT* PLEASE REFER TO PAGES 8 & 9 OF THIS MANUAL FOR TRAVEL STOP INFORMATION. PLEASE READ BEFORE INSTALLING BALANCES.

Fig 1: Load balances into outer frame before installing sashes, then load the sash into the frame. If window is already installed see Fig 1A.

Fig 2: Do not over tighten the top screw as this will distort the balance tube and reduce its efficiency.

Fig 1A: If window is already installed, fully lower the sash before attempting to insert the balance into the machined groove in the sash or frame.

Fig 3: Raise the sash and support its weight on a suitable strut. Unhook and clear the spiral rod of its fixing bracket. Lower the rod by up to a maximum of 50mm. Should the rod extend out of the balance by more than 50mm, gently push the rod back into the balance, allowing it to rotate freely.

Fig 4: Apply tension clockwise, using a hook tensioning tool. Check the Balance Tensioning Chart on page 9 for the correct number of turns. WARNING: do not move the sashes fully up or down until limit stops have been fitted as below.

Limit stops must be fitted for both upper and lower sashes. They should be of adequate length to prevent over extending of the balance spiral rod.

Fig 5: Latch the cross pin into the bracket seat and remove the tension tool. Finally check for a smooth operation of the sash.

THE SPIRAL ROD OR BALANCE TUBE SHOULD NOT BE DISTORTED IN ANY WAY DURING INSTALLATION.

All of the information shown on this data sheet was correct at the time of issue. All information however is subject to change and therefore it is advisable to check with Caldwell Hardware to ensure that you have the latest issue level.

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ISSUE LEVEL 05
## Tensioning Chart for Spiral Balances

### REGULAR ALUMATILT & SPIREX

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To establish spring colour and tension turns required:
Find appropriate balance length and read down until it coincides with required sash weight. That figure is the number of tension turns and the colour is that of the coupling required.

For sashes over 40lbs (18kg) refer to UltraTilt or Torso information sheets.

Note: Tensioning chart is for guidance purposes only.

---

### HEAVY DUTY ALUMATILT & SPIRALIFT

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</tbody>
</table>

To establish spring colour and tension turns required:
Find appropriate balance length and read down until it coincides with required sash weight. That figure is the number of tension turns and the colour is that of the coupling required.

For sashes over 40lbs (18kg) refer to UltraTilt or Torso information sheets.

Note: Tensioning chart is for guidance purposes only.
FRAME AND SASH PREPARATION FOR TIMBER WINDOWS
ULTRALIFT BALANCES

(i) MACHINED SASH METHOD

Fig 1: Sash groove dimensions.

Fig 2: The bottom edge of the UK212 bracket must be 10mm up from the bottom of the sash.

Fig 3: The bottom edge of the UK212 bracket must be level with the bottom of the sash or horn depending on which is applicable.

(ii) MACHINED FRAME METHOD

Fig 4: Frame groove dimensions.

Fig 5: The bottom edge of the UK121 bracket must be 25mm up from the bottom of the sash. Always fix through all four fixing holes.

Fig 6: The bottom edge of the UK121 bracket must be 10mm up from the sash or horn depending on which is applicable.

NOTE: If using the UK835 bracket instead of the UK121, the same guidelines apply apart from the routing width, which can be reduced (to 16mm).

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INSTALLATION PROCEDURE
ULTRALIFT & TORSO II BALANCES

*IMPORTANT* PLEASE REFER TO PAGES 8 & 9 OF THIS MANUAL FOR TRAVEL STOP INFORMATION. PLEASE READ BEFORE INSTALLING BALANCES.

Fig 1: Load balances into outer frame before installing sashes, then load the sash into the frame. If window is already installed, see Fig 1A.

Fig 1A: Fully lower the sash before inserting the balance into the machined groove in the sash or frame.

Fig 2: The balance should be fixed directly under the head. Do not overtighten the fixing screw.

Fig 3: ATTACHING TO SASH
When both the upper and lower balances are installed the UK201 can be located within the UK212 bracket as follows:

UPPER SASH
With the sash in the closed position, supported on a suitable strut. Locate the tensioning tool into the eye at the bottom of the balance. Pul down and locate into the UK212 bracket. Do not allow the rod to rotate as this will result in loss of tension.

LOWER SASH
Raise the sash into the open position without the upper stops fitted and support on a suitable strut. The UK201 should now be below the sash. Attach the tensioning tool, locate the UK201 into the UK212 bracket. Do not allow the rod to rotate as this will result in loss of tension.

THE SPIRAL ROD OR BALANCE TUBE SHOULD NOT BE DISTORTED IN ANYWAY DURING INSTALLATION.

All of the information shown on this data sheet was correct at the time of issue. All information however is subject to change and therefore it is advisable to check with Caldwell Hardware to ensure that you have the latest issue level.
202 TRAVEL RESTRICTOR

PLAN VIEW on Arrow 'A'

20232 Keep

ISOMETRIC VIEW

Outer Frame

Arrow 'A'

Bottom Sash

202L Restrictor

202 TRAVEL RESTRICTOR

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UK646 ROLA VS TRAVEL RESTRICTOR FITTING DETAILS

**STEP 1:** DRILL THE COUNTERBORE TO THE DIMENSIONS ABOVE

**STEP 2:** SCREW IN THE UK855 INTO THE COUNTERBORE CLOCKWISE USING AN ALLEN KEY

**STEP 3:** SCREW IN THE UK646 BY HAND

**UK647 KEY** - TURN **CLOCKWISE** TO PROPEL THE RESTRICTOR INTO THE SASH. TURN **ANTI-CLOCKWISE** TO PROPEL OUT OF THE SASH.

**NOTE:** IF FITTING TO PVC PROFILES, USE RIVET-NUTS (NOT SUPPLIED BY CALDWELL) INTO THE REINFORCEMENT, INSTEAD OF THE UK855. IF IN ANY DOUBT, PLEASE CONTACT CALDWELL TECHNICAL DEPARTMENT.

Also available for timber windows are strike plates to stop damage to the strike point on the meeting rails. These are also available in the same finishes as the travel restrictors.

**ORDER CODES**
- POLISHED CHROME: UK737CH
- WHITE POWDER COAT: UK737HPWHITE
- POLISHED GOLD: UK737DG

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Conventional Timber Vertical Sliders

Security Products also available please see Data sheets 00515 & 00516

Optional Accessories
- Sash lock plate kit. UK466
- Pole Ring UK624
- UK745 (Offset Type)
- UK806 (Brass)
- Keeps 30459 Block
- UK230 Single
- UK231 Double
- Balances Spirex
- Spiralift
- Ultralift
- Torso
- Tensioning Tool WIRE-TEN BB-TEN
- Travel Stops UK190N or UK191N
- Timber Outer Frame Jamb without Grooves
- Side Fix Bracket N60-62
- N60 - 62 (UK 120 for Horn)
- Pole Ring UK624
- UK745 (Offset Type)
- UK806 (Brass)
- Keeps 30459 Block
- UK230 Single
- UK231 Double
- Balances Spirex
- Spiralift
- Ultralift
- Torso
- Tensioning Tool WIRE-TEN BB-TEN
- Travel Stops UK190N or UK191N
- Timber Outer Frame Jamb without Grooves
- Side Fix Bracket N60-62
- N60 - 62 (UK 120 for Horn)

*NB Other balance fixing brackets are available as per DATASHT-00104 (Page 4)*

All of the information shown on this data sheet was correct at the time of issue. All information however is subject to change and therefore it is advisable to check with Caldwell Hardware to ensure that you have the latest issue level.
CONVENTIONAL TIMBER VS BALANCE ORDER FORM

PLEASE SEND TO CALDWELL HARDWARE VIA EMAIL: SALES@CALDWELL.CO.UK OR FAX: 024 7643 7969

CUSTOMER DETAILS

Order No.
Contact:
Delivery Date:
Tel. No.
Fax No.

Georgian Bars (Plant on type) (If yes, specify no. horizontal & no. vertical Bars)

Pre-tensioned balances only

Torso balances only

Type of wood

Arched Top Sash
Balances housed in Outer Frame
OR Balances housed in Sash

THIS ORDER FORM MUST ONLY BE USED WHEN ORDERING SASH BALANCES FOR USE WITH CONVENTIONAL TIMBER VERTICAL SLIDING WINDOWS

Ref. QUANTITY OF WINDOWS DIM "W" (mm) DIM "A" (mm) DIM "B" (mm) DIM "C" (mm) DIM "D" (mm) SIZE OF HORN GEORGIAN BARS (Tick) GLAZING CONFIG. eg. 6-12-6 GLAZED SASH WEIGHT (kg)

White Tubes White travel Stops Brown Tubes Brown Travel Stops

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WINDOW DETAILS

DIMENSIONS REQUIRED

- A: Height of upper sash (if fitted)
- B: Height of lower sash (if fitted)
- C: Height of lower sash (if fitted)
- D: Width of sash

NOTE: Sash weights are based on 50mm square profile in softwood unless otherwise stated.

We cannot accept responsibility for goods supplied incorrectly if accurate sash weights have not been provided.

PLEASE REQUEST DATA SHEET 00363 FOR WINDOW DIMENSION TERMINOLOGY

THIS ORDER IS ACCEPTED UNDER OUR CURRENT ‘TERMS & CONDITIONS OF SALE’ COPIES AVAILABLE UPON REQUEST.
CONVENTIONAL TIMBER ACCESSORIES ORDER FORM

TO: CALDWELL HARDWARE  FAX: 024 7643 7969

CUSTOMER:                       ORDER No:

Please enter quantity required in boxes:

**BALANCE TENSIONING TOOLS**

| Wire-Ten Tensioning Tool | BB Tensioning Tool |

**SASH LOCKS**

<table>
<thead>
<tr>
<th>9600</th>
<th>White</th>
<th>Chrome</th>
<th>Dawn Gold</th>
<th>Legrand Gold</th>
<th>Brushed Stainless</th>
<th>Black</th>
<th>Bronze</th>
</tr>
</thead>
<tbody>
<tr>
<td>9400</td>
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<td>Bronze</td>
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<tr>
<td>KL800</td>
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**KEEPERS**

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<tr>
<th>UK230</th>
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<tr>
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<tr>
<td>30459</td>
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**SASH LOCK PLATE**

<table>
<thead>
<tr>
<th>UK465</th>
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<th>White</th>
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**SASH LIFTS & POLE RINGS**

<table>
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<tr>
<th>7761</th>
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<td>UK184</td>
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**BRASS HARDWARE**

<table>
<thead>
<tr>
<th>Lacquered Brass (LB)</th>
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<tbody>
<tr>
<td>Chrome (CH)</td>
</tr>
<tr>
<td>Brushed Nickel (BN)</td>
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<td>UK807</td>
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**RESTRUCTORS**

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<thead>
<tr>
<th>PE401</th>
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<tr>
<td>202R</td>
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<td>202L</td>
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**BRUSH PILE – UK687**

| 10 METRES | 100 METRES | 550 METRES |

**BRUSH PILE HOLDER – UK688**

<table>
<thead>
<tr>
<th>10 x 1 METRE STRIPS (WHITE)</th>
<th>10 x 1 METRE STRIPS (BROWN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 x 2.9 METRE STRIPS (WHITE)</td>
<td>100 x 2.9 METRE STRIPS (BROWN)</td>
</tr>
</tbody>
</table>

**BUBBLE SEAL – UK689**

| 10 METRES | 100 METERS |

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All Caldwell products are manufactured according to BS EN ISO 9001:2008 certified Quality Management Systems.

Where product standards do not exist Caldwell have set in house procedures.

Further information on specific testing is often available from our technical department.

Caldwell are also members of The Council for Aluminium in Building (CAB) which brings together three existing trade associations, the Architectural Aluminium Association, The Patent Glazing Contractors Association and the Aluminium Window Association, into a unified voice.