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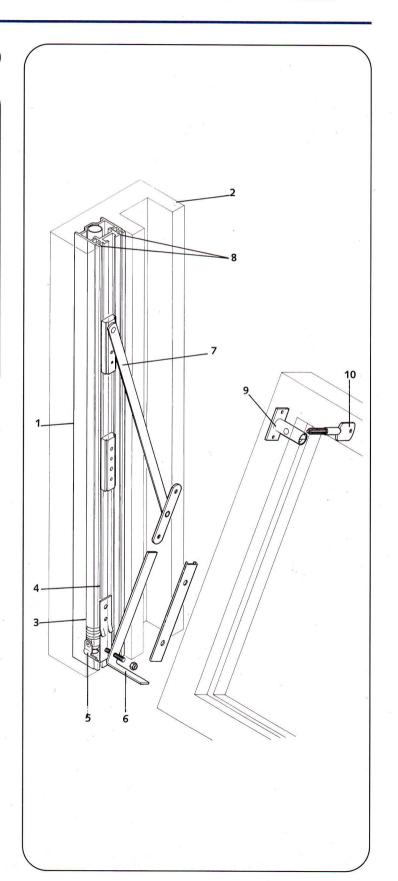
# Supertilt Slide and Tilt Window System

### **General Arrangement**

The Supertilt Slide and Tilt Window System consists of a pair of extruded aluminium jamb channels (1) fitted to each window frame jamb (2). The jamb channels house the spiral balances (3) and serve as a guide for a plastic slider and stop assembly (4) attached to the slider by means of a foot (5) and to the sash by means of a foot swivel (6). The restrictor stay (7) is fixed to the sash stile at one end, the other end being free to move vertically in the central groove of the slider. Grooves (8) are provided in the slider to take standard brush or foam weatherstrip. The sash is retained in its vertical position by means of a pair of guide catches (9) fitted to the top of the sash stiles. When the guide catches are released, using the special key (10) the sash can be tilted inwards as illustrated.

#### **Key Features**

- Elimination of traditional plastic friction lock tilt shoes and pivot bars.
- Sashes can be tilted inwards for easy and safe cleaning, from inside the building.
- Sashes are supported when tilted, by means of a rigid stainless steel restrictor stay, at an angle of approximately 45°.
- Sashes can be tilted in any position.
- Provision for high performance, friction free weathersealing of sashes.
- Easy installation of sash (and earlier removal if necessary for maintenance-painting, glazing, etc).
- Improved appearance (plastic slider forms a cover for the otherwise exposed spring of the balance).
- Cannot damage cill when sashes are tilted.
- Added security with key operated guide catches.
- Jamb channel available in white or brown
- Slider and stop assembly available in white or brown

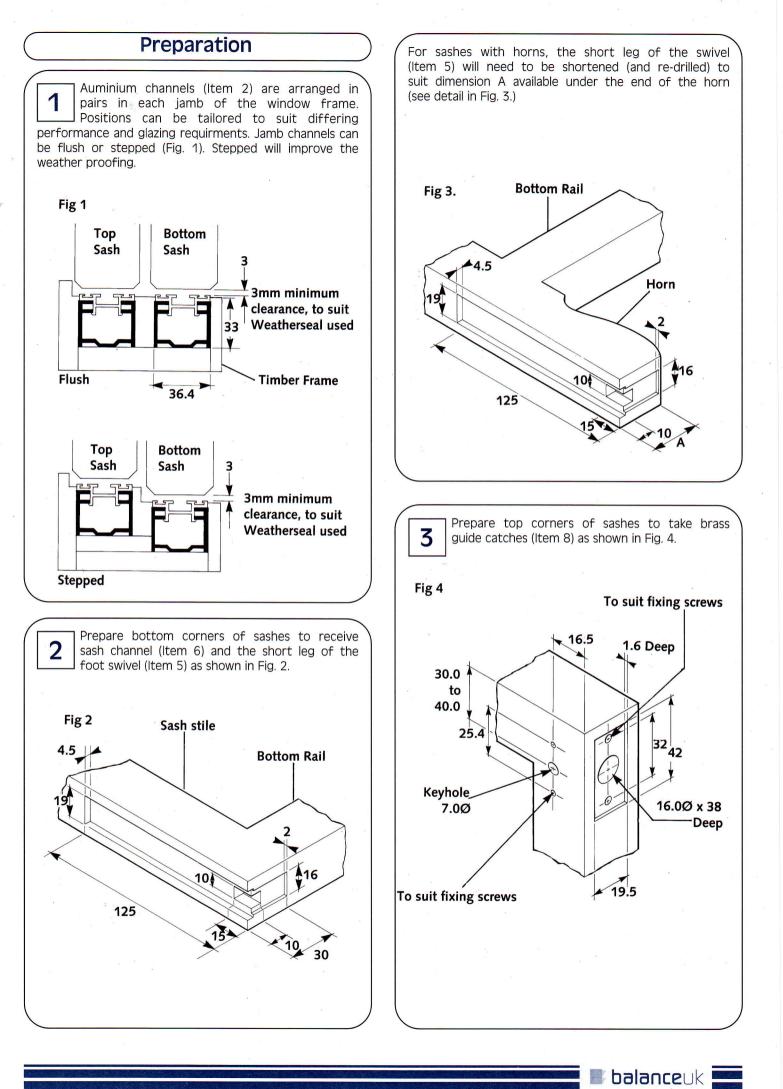


## Supertilt - Checklist of Items Supplied

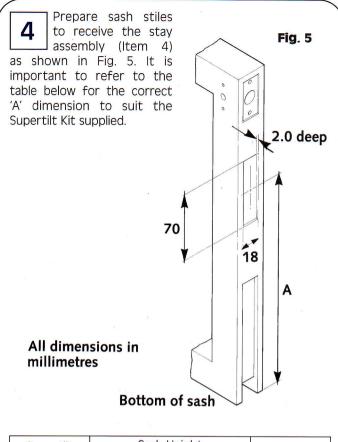
ITEM	DESCRITPION	QTY PER WINDOW
1	Spiral Balance	2 pairs
2	Jamb Channel	4
3	*Slider and Stop Assembly	4
4	*Stay Assembly	4
5	*Foot Swivel	4
6	*Sash Channel	4
7	*Sash Travel Stops	4
8	Brass Guide Catch, Escutcheon and Key (1 key/set of four)	4
9	Fitch Catch	1 or 2
10	Brass Finger Pull	1 or 2
11	*No 8 x 25mm Countersunk Woodscrew	20
12	*No 8 x 40mm Countersunk Woodscrew	4
13	*No 6 x 6mm Self Tapping Screw	4

Items marked \* are included in the Supertilt Kit - see price list

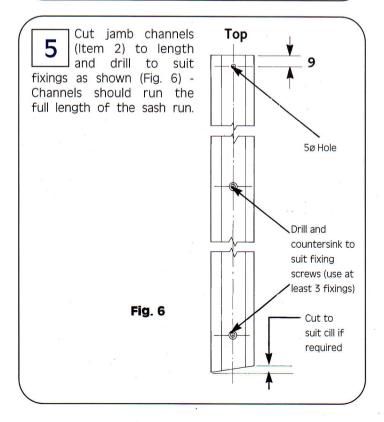
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Spiral Sash Balances



Supertilt	Sash H				
Kit Size	(Min)	Dim 'A'			
15	365	585	160		
1	510	610	170		
2	570	864	190		
3	790	1118	270		
4	1040	1352	360		
	17 22				



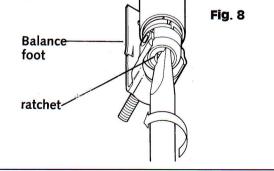
The slider and stop Fig. 7 6 assembly (Item 3) needs to be cut so that the top end of the slider is flush with, or slightly short of the top of CUT EXCESS FROM THIS the sash when installed. END label In practice this means cutting the sliders so that the overall length (C) is equal to the sash height minus approx 6mm. It is vital that the excess slider is cut Slider from the end indicated by a label located on the rear of Stop the slider saying 'CUT EXCESS FROM THIS END' (Fig. 7) С Supertilt **B** Dim Kit Size (Ref Only) 15 125 1 296 B 2 336 3 498 4 680 NOTE: BALANCE FOOT FITS THIS END (See instructions) \_

#### Important

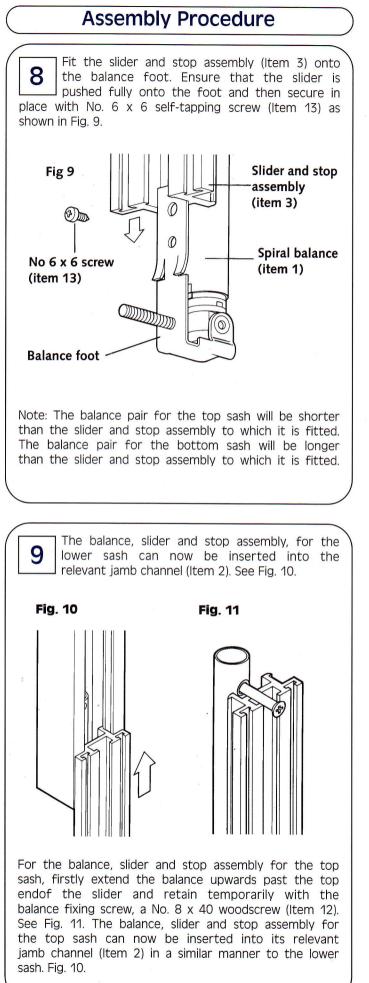
The dimensions given in instructions 4 and 6 give a tilting angle of between  $40^{\circ}$  -  $50^{\circ}$  from the vertical. On no account should these dimensions be altered to increase this angle.

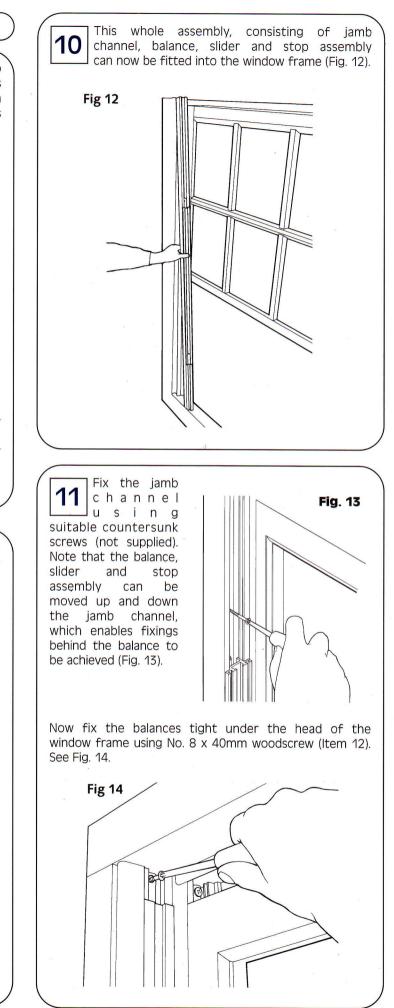
#### **Adjusting Balances**

The balances come pre-tensioned if further adjustment is required use a screw driver in the slot in the ratchet fitting at the bottom of the balance (Fig. 8). Turn the ratchet in an anti-clockwise direction as viewed from the bottom of the balance. Two 'clicks' of the ratchet equal on complete turn. Do not turn clockwise as this can damage the balance.



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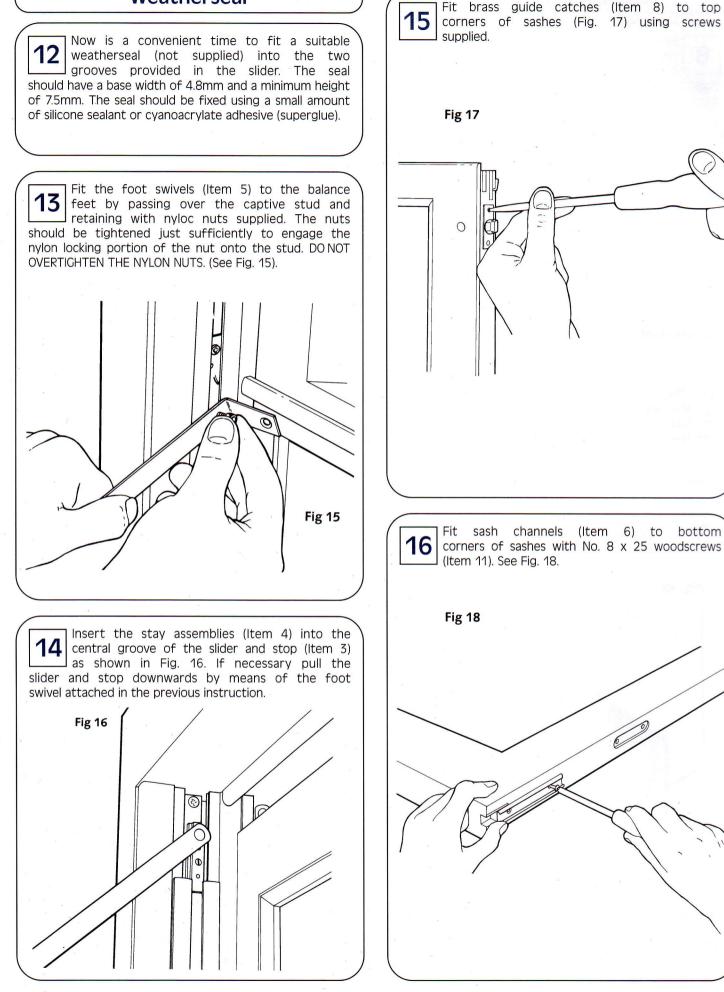
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Spiral Sash Balances

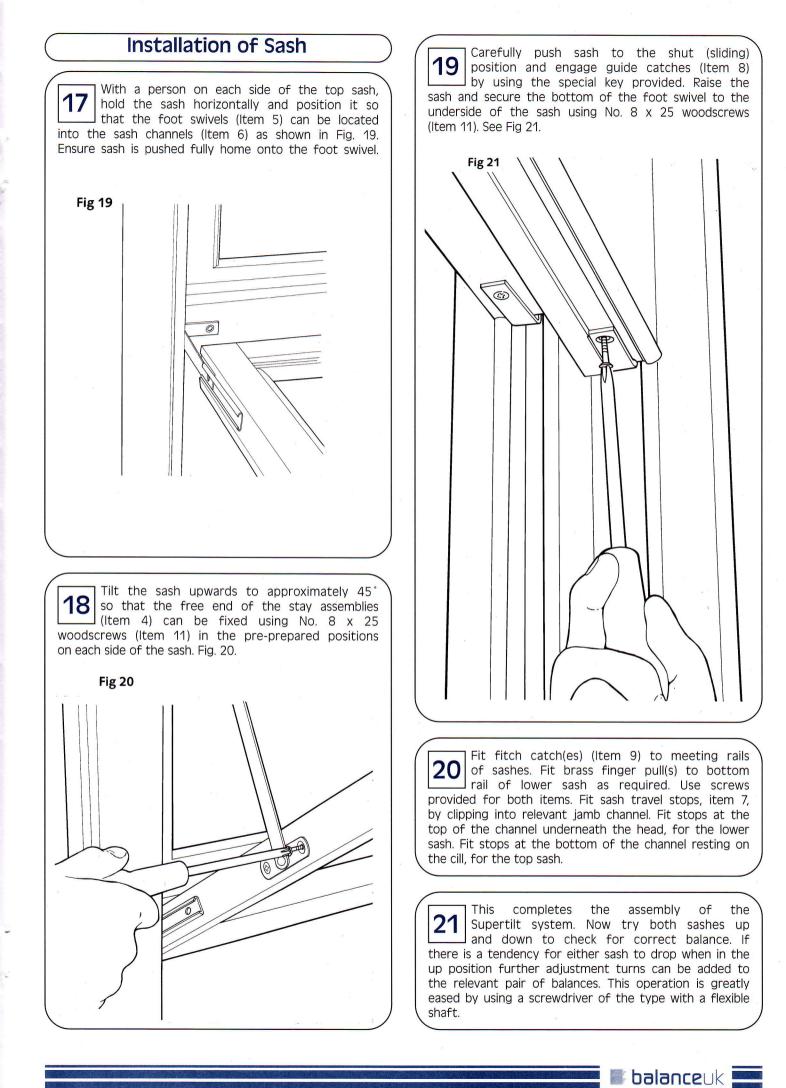
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#### Weatherseal



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Spiral Sash Balances

#### Instructions for Use

#### Type 'F' Balances

Move both sashes to a point at which their top rails can be held firmly with both hands.

Operate both guide catches on the lower sash.

Hold the top rail of the lower sash firmly with both hands, as close to the sash stiles as possible. Maintaining a slight downward pressure, tilt the sash inwards to the limit of the restrictor arm.

Clean the sash glass either from the side, or by reaching over the top rail.

Repeat the above with the top sash.

Retaining slight downward pressure return first the top sash to the vertical and relocate the guide catches. Then return the bottom sash and relocate guide catches

During these operations ensure that the bottom rail of each sash is parallel to the cill. Also try the top corner of each sash to ensure that the guide catch is located properly.

Do not use silicon spray.

Ad	just	ment	Char	ts
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Read these charts with reference to Section 7 of these instructions. To determine the suggested number of adjustment turns:

1. Establish balance number (Balance number equals balance tube length in inches).

2. Establish sash weight (printed on tube).

3. Read across from the relevant balance reference number, and down from the required sash weight to find the suggested number of adjustment turns.



		Sash Weight									
Tube	Kgs	6.8	9.1	11.3	13.6	15.9	18.1	20.4	22.7 - 25.0		
Length (Ins)	lbs	15	20	25	30	35	40	46	50 - 55		
16		1 - 2	1 - 2	1 - 2	1 - 2	2	2	4 -5	4 - 5		
21		1 - 2	1 - 2	2 - 3	2 - 3	2 - 3	2 - 3	4 - 5	4 - 5		
25		1 - 2	1 - 2	2 - 3	2 - 3	3 - 4	3 - 4	4 - 6	5 - 6		
29		1 - 2	1 - 2	2 - 3	2 - 3	3 - 4	3 - 4	4 - 6	6 - 8		
33		1 - 2	1 - 2	2 - 3	2 - 3	4 - 5	4 - 5	5 - 7	7 - 9		
37		2 - 3	2 - 3	3 - 4	3 - 4	4 - 5	4 - 5	6 - 8	8 - 10		
41		2 - 3	2 - 3	3 - 4	3 - 4	4 - 5	4 - 5	7 - 9	9 - 12		
45		2 - 3	2 - 4	4 - 5	4 - 5	4 - 5	4 - 5	7 - 9	9 - 12		
49		2 - 3	2 - 4	4 - 5	4 - 5	4 - 5	4 - 5	7 - 9	10 - 12		

#### Type 'K' Balances

		Sash Weight												
Tube	Kgs	9	11	14	16	18	20	23	25	27	30	32	34	36
Length (Ins)	lbs	20	25	30	35	40	45	50	55	60	65	70	75	80
16		1	1	1	1	1	1	2	2	2	2	2	2	2
21		1	1	1	1	1	2	2	2	2	2	2	2	3
24		1	1	1	1	1	2	2	2	2	2	2	3	4
27		1	1	1	1	1	2	2	3	3	3	4	4	5
32		1	1	1	1	2	2	3	3	3	4	4	5	6
36		1	1	1	2	2	2	3	3	4	4	5	5	6
40		1	1	1	2	2	2	3	4	4	4	5	6	7
44		1	1	1	2	2	2	3	4	4	4	6	7	8
48		1	1	1	2	2	2	3	4	4	4	6	8	9

#### Maintenance

Depending upon location and frequency of use, lubrication of the internal mechanism of the balance may be desirable after a length of time, the period of which will vary according to site circumsatances. A few drops of light oil or spray such as WD40 applied via the top end of the balance tube will always improve the operation action of the balance after long service.

#### Important

Don't tension balances more than necessary.

Don't tension balances before glazing.

**Don't** use balances on sashes beyond their respective weight.

**Do** fit correct travel stops.

