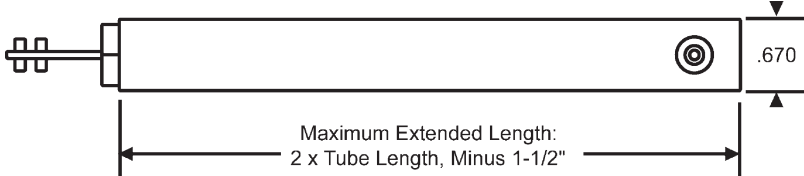


Sash Support Systems

88L Series Ultralift .670 Heavy Duty Tube Balance



The heavy duty Ultralift is not only an excellent product for counterbalancing windows from 10lbs. to 100 lbs.; it also reduces the manual force required to open and close windows by 50%. Standard balances only provide about 40% of the sash weight while the Ultralift lifts 70% of the sash weight. This makes the Ultralift an excellent product to use in nursing homes, schools and windows that are difficult to access. These balances can be used in sashes from 10 lbs. to 100 lbs. in weight.

Here are the facts:

- Lifts 70% of sash weight vs. AAMA'S 40% minimum.
- Provides even power across full range of sash travel.
- Usable with both tilt and non-tilt windows.
- Adjustable on site by +2 lbs.
- Fits most C-20 and HC-40 AAMA grade single and double hung windows.
- Fits most large architectural wood windows.
- Combines spiral and extension spring technology.
- Covered by a 5-year warranty.
- Custom made for specific sash weights.

Installing Balance in Tilt Windows

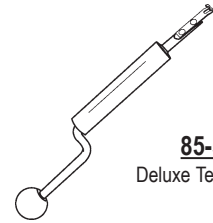
1. Mount the balance to the outer frame with a screw (See Figure 1). Do not overtighten screw.
2. Raise the pivot shoe in the jamb channel and insert the balance rod into the shoe rod slot (See Figure 2).
3. Install the sash.

Installing Balance in Non-Tilt Windows

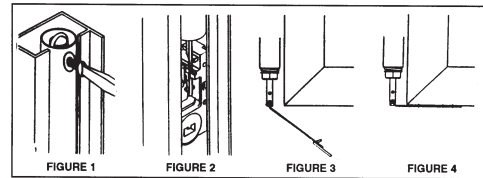
1. Mount balance to outside frame with screw (See Figure 1). Do not overtighten screw.
2. With top stops removed, raise the sash so that the sash brackets protrude below bottom rail. Pull bracket around sash corner with installation tool (See Figure 3).
3. Attach sash bracket to bottom rail using a minimum of two screws per bracket (See Figure 4).

- ### ORDERING INFORMATION
1. Specify tube length up to 78".
 2. Specify tilt or non-tilt.
 3. Specify weight of sash.
 4. Specify tube color: Black, White, Gray & Tan.
- Note: Balances are pre-tensioned to the exact weight of sash.

- ### GENERAL INFORMATION
1. Maximum extended length is 2" x tube length minus 1-1/2".
 2. Commercial grade heavy duty balances for sash weighing 40 lbs. thru 80 lbs.

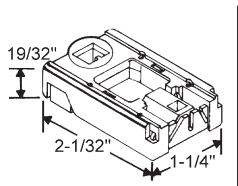
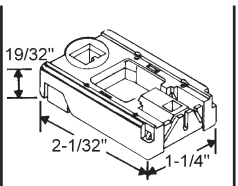
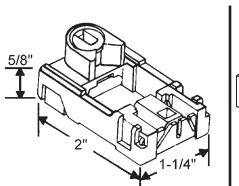
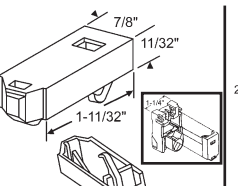
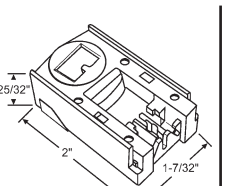
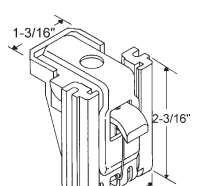


85-515
Deluxe Tension Tool

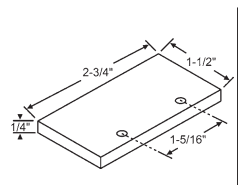
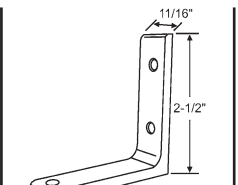
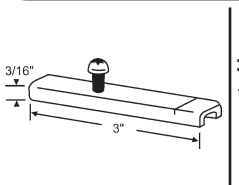
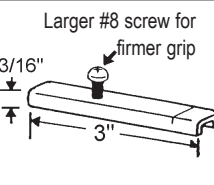


88L Series Balance Accessories

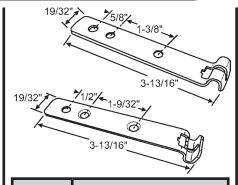
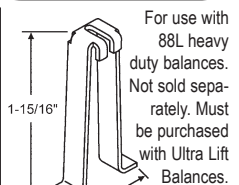
PIVOT LOCK SHOES

 <p>85-505 No Longer Available Use: 85-517</p>	 <p>85-517 Black Cam Cam Opening: 3/8" x 3/16"</p>	 <p>85-518 Red Cam Cam Opening: 3/8" x 3/16" Traco</p>	 <p>85-606 Tamp-R-Lock. Snaps on to eliminate take out function. Black</p>	 <p>85-5045</p>	 <p>88-503 Carrier</p>
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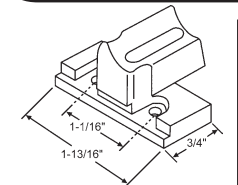
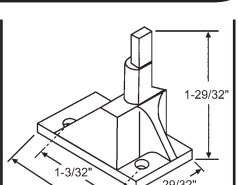
PIVOT BARS

 <p>900-21112 Black. Anodized Aluminum</p>	 <p>88-700 Anodized Aluminum Angle Stop - Black</p>	 <p>85-501 Metal Norandex</p>	 <p>Larger #8 screw for firmer grip 88-505 Special heat treated for added strength</p>
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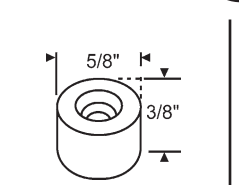
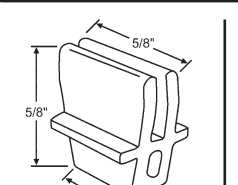
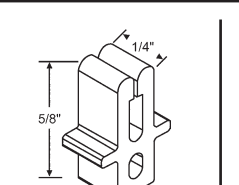
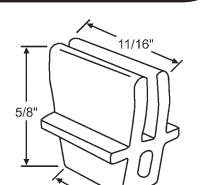
PIVOT LOCK SHOE ADAPTER

 <p>88-500 Standard Holes for Non-Tilt 88-501 Countersunk Holes</p>	 <p>For use with 88L heavy duty balances. Not sold separately. Must be purchased with Ultra Lift Balances. 88-508 Stainless Steel</p>
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PIVOT LOCK SHOE ADAPTER

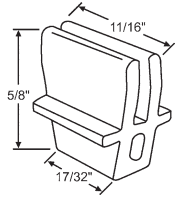
 <p>900-20214LH Shown 900-20214RH Opposite Cast Aluminum</p>	 <p>900-13070A Sold in sets only.</p>
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TAMPER LOCKS

 <p>62-658 Heavy Duty Die Cast Face Guide</p>	 <p>88-519 For Ultra Lift Traco</p>	 <p>88-540 For Ultra Lift Traco</p>	 <p>88-542 For Ultra Lift Blue</p>
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88L Series Balance Accessories

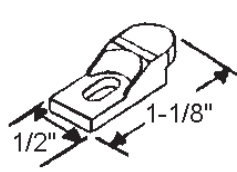
TAMPER LOCKS



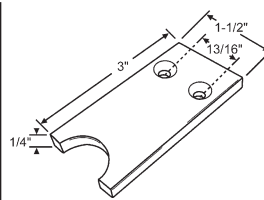
88-542

For Ultra Lift
Blue

GUIDE

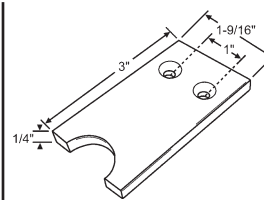


900-12977
SWS



88-604

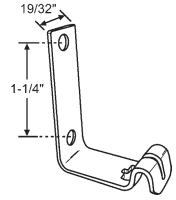
Black w/Countersunk Holes



88-605

Black w/Countersunk Holes

BRACKET



88-543

Stainless Steel.
Countersunk Holes

88LL & 88SL Series - 21/32" & 3/4" Tube Balances



Ordering Information

1. Determine series 88LL (5/8" OD) or 88SL (3/4" OD) based on sash weight range required.
2. Select pin option (1,2,3,4,5 or 6) from diagram shown.
3. Determine tube length.
4. Determine color (gray, black, white & tan).

Example: Sash weighing 92 lbs. and balance is 38" long with 2 pins 1/2" long and gray cover the part number is: 88SL90-438G

General Information

1. Travel characteristics for these balances is 2x tube length minus 2".
2. Choose the required pivot lock shoes or brackets from the balance accessory page.
3. Proper tension is acquired by winding in a COUNTERCLOCKWISE direction.

Note: All accessories must be ordered separately.

88LL Series Balance 21/32" Diameter Plastic Tube Balance

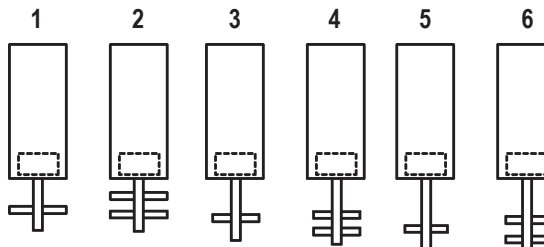
Series	Tube Lengths	Weight Ranges	Part Number
88LL	20" to 60"	20 to 29.5 lbs.	88LL20-Pin Option + Tube Length + Tube Color
88LL	20" to 60"	30 to 39.5 lbs.	88LL30-Pin Option + Tube Length + Tube Color
88LL	20" to 60"	40 to 49.5 lbs.	88LL40-Pin Option + Tube Length + Tube Color
88LL	20" to 60"	50 to 59.5 lbs.	88LL50-Pin Option + Tube Length + Tube Color
88LL	20" to 60"	60 to 69.5 lbs.	88LL60-Pin Option + Tube Length + Tube Color
88LL	20" to 60"	70 to 79.5 lbs.	88LL70-Pin Option + Tube Length + Tube Color

88SL Series Balance 3/4" Diameter Plastic Tube Balance

Series	Tube Lengths	Weight Ranges	Part Number
88SL	20" to 74"	60 to 69.5 lbs.	88SL60-Pin Option + Tube Length + Tube Color
88SL	20" to 74"	70 to 79.5 lbs.	88SL70-Pin Option + Tube Length + Tube Color
88SL	20" to 74"	80 to 89.5 lbs.	88SL80-Pin Option + Tube Length + Tube Color
88SL	20" to 74"	90 to 99.5 lbs.	88SL90-Pin Option + Tube Length + Tube Color
88SL	20" to 74"	100 to 109.5 lbs.	88SL100-Pin Option + Tube Length + Tube Color
88SL	20" to 74"	110 to 119.5 lbs.	88SL110-Pin Option + Tube Length + Tube Color
88SL	20" to 74"	120 to 129.5 lbs.	88SL120-Pin Option + Tube Length + Tube Color
88SL	20" to 74"	130 to 139.5 lbs.	88SL130-Pin Option + Tube Length + Tube Color

Balance Tilt Pin Options

Note: 1, 2 and 3 can also be used on non-tilt systems.



One 3/4" Pin Two 3/4" Pins One 1/2" Pin Two 1/2" Pins One 1/4" Pin Two 1/4" Pins