

MODEL C

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WELL-ROUNDED.

he Model C roller guide is unique in its suitability to a wide variety of elevator APPLICATIONS. IT IS PRIMARILY INTENDED AS THE COUNTERWEIGHT PARTNER TO THE MODEL A ROLLER GUIDE. YET IT IS ALSO APPROPRIATE FOR USE ON ELEVATOR CABS WHERE THE RIDE QUALITY ADVANTAGES OF SIX-WHEEL CONSTRUCTION ARE NEEDED, OR WHERE A SMALLER ROLLER IS REQUIRED FOR CLEARANCE, SUCH AS IN CORNER POST APPLICATIONS.

FEATURES OF THE MODEL C GUIDE:

1. Six-Wheel Construction improves ride quality and extends the application range. The tandem roller design allows the guide to "step over" misaligned rail joints with only minimal disturbance to the cab and its occupants. And by using six wheels where most other guides use just three, the Model C can withstand the higher loads associated with service and hospital cars. The added stability also helps compensate for unbalanced conditions.

2. Neoprene Rubber Roller Wheels are specially compounded and rigorously

tested to ensure a smooth, silent ride. Only genuine ELSCO neoprene wheels provide the damping characteristics essential to ride quality, and only genuine ELSCO wheels are engineered with high "memory" characteristics that prevent flat spots. ELSCO rollers are precision ground to within .002 inches (,051mm) "Total Indicator Reading" for perfect roundness and concentricity, then 100% inspected under stress to ensure a secure bond between tire and hub.

3. Precision Ball Bearings guarantee years of silent use. ELSCO specifies bearings intended for the high RPMs and demanding loads of electric motors conditions far more rigorous than typically seen in elevator applications. This means that even after years of operation and tens of millions of cycles, only ELSCO roller wheels remain completely silent. Each bearing bore is machined to a tolerance of three ten-thousandths (.0003) of an inch (,0076mm), and two bearings are pressed into each wheel by a computer-driven press, ensuring perfect fit and alignment.

4. Fully Adjustable Stabilizing **Springs** allow the car to float between the rails, eliminating the bumps and vibrations that adversely affect ride quality.

5. Optional Adjustable Stops enable precise control of the car's overall postwise float between the rails.

6. Durable Structural Components.

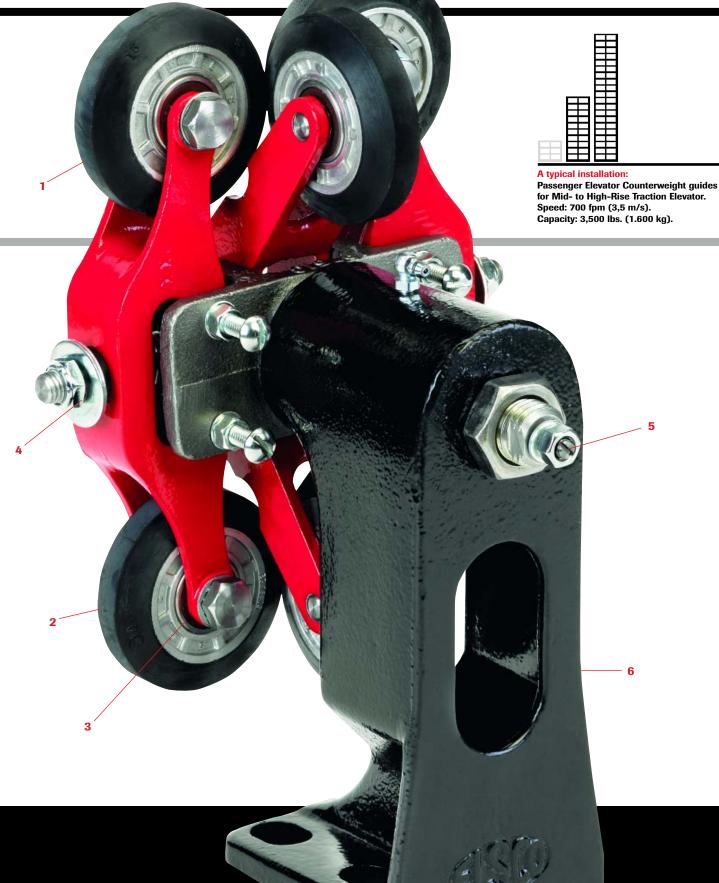
ELSCO castings are made from hightensile-strength ductile iron and aluminum for an optimal combination of strength, durability, and light weight. High quality quide hardware ensures long life and ease of adjustment in the field. All components are inspected and assembled to exacting standards for a lifetime of reliable performance.

ch for improving elevator ride
by reducing the need for expensive
riented solutions and ongoing
nance. That's why, to elevator
tors around the world, the ELSCO

ELSCO roller guides and swivel sliding guide shoes offer a cost-effective

discuss your specific application.

Many factors must be considered when making a guide selection. Please call us to



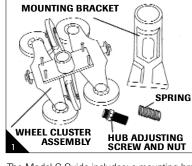


■See inside for mounting instructions

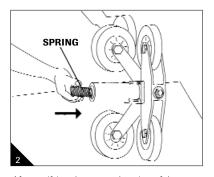


ELSCO Model C elevator roller guides are designed with adjustment features that provide superior riding characteristics. The installer can easily adjust ELSCO guides to compensate for adverse operating conditions and to minimize noise, bumps and vibration. For optimum performance and longer roller wheel life, we recommend that elevator rails be properly aligned and cleaned, and the car balanced before operation.

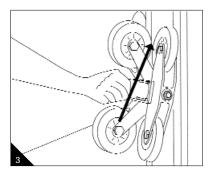
ELSCO roller guides are carefully assembled, inspected, and packed to arrive in perfect condition. When your shipment arrives, inspect it carefully for damage and, if appropriate, immediately file a claim with the carrier. For best results, read all instructions thoroughly before proceeding with the installation.



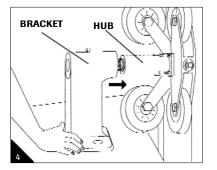
The Model C Guide includes: a mounting bracket, wheel cluster assembly, and bag containing a spring and hub adjusting screw with locknut. **Note:** If adjustable stops have been ordered, you will also receive a solid stop washer, an adjustable stop shaft, lock washer and locknut.



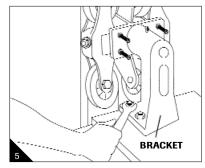
After verifying the proper location of the mounting holes (refer to mounting template), begin installation by inserting the spring into the hub. **Note:** If installing adjustable stops, insert the solid stop washer into the hub before inserting the spring.



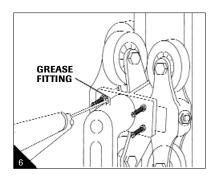
Position uppermost roller wheels of wheel cluster assembly onto the rail, and while maintaining pressure against the rail, roll entire assembly upward until face roller wheels are firmly seated on the rail.



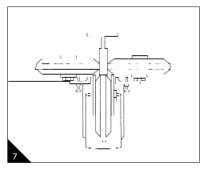
Place bracket onto the hub of wheel cluster assembly.



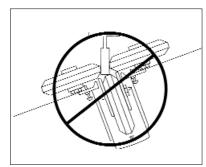
Position bracket over mounting holes or studs. Install mounting hardware (not included with guide) as required. Tighten lightly to hold bracket in place prior to final adjustment.



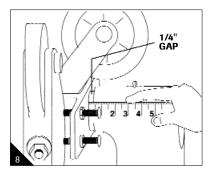
At this point, install the remaining roller guides on top and/or beneath the elevator. Lubricate the fitting on each guide with general purpose grease until a small amount appears between the hub and the bracket.



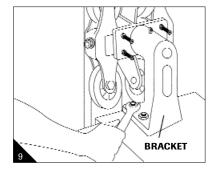
Be sure guides are aligned properly (as shown) before making any further adjustments.



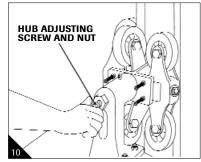
Improper alignment



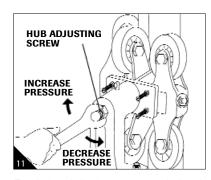
Set 1/4" (6mm) gap between wheel cluster assembly and bracket. **Note:** Be certain that both face roller wheels are firmly seated against the rail while making this adjustment.



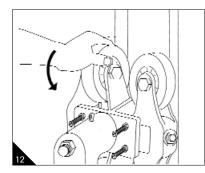
Securely tighten mounting bolts. Repeat steps 7 and 8 on remaining guides before proceeding. This helps assure that the elevator car will be properly centered between the rails.



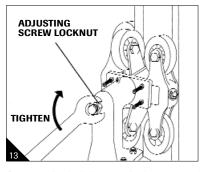
Install the hub adjusting screw assembly and nut into bracket. Adjustment of the large screw regulates the pressure of the face roller wheels against the rail.



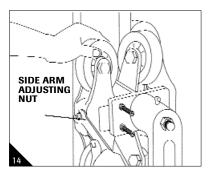
Turn the large hub adjusting screw until roller wheel tire is compressed ½2" to ½6" (1 to 2mm) on the rail. This represents approximately 25 to 50 lbs. (12 to 25kg) of wheel pressure. **Note:** If installing guides equipped with polyurethane roller wheels, refer to step 21 for allowable wheel pressures.



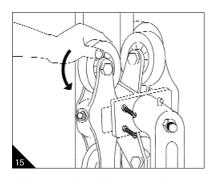
When properly adjusted, it will be possible to skid the face roller wheel by hand with moderate effort.



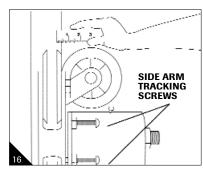
Be certain that both the face wheel pressure and the recommended gap measurement (refer to step 8) are equal for each guide. **Caution: This gap measurement may now be greater than 1/4" (6mm), but should never exceed 3/8" (10mm).** Now tighten adjusting screw locknut.



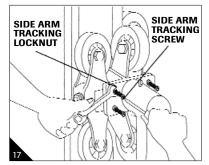
Adjust side arm roller pressure. Turn side arm adjusting nuts until side wheels are compressed ¹/₃₂" to ¹/₁₆" (1 to 2mm) and the face wheels are tracking in the center of the rail. **Note:** If guides are equipped with polyurethane roller wheels, refer to step 21 for allowable pressures.



At this point, there will be 25 to 50 lbs. (12 to 25kg) of pressure on each side roller wheel, and the wheels can be skidded by hand on the rail with moderate effort.



Each pair of side arm roller wheels should track parallel to the face of the rail. The distance from the edge of each roller wheel to the face edge of the rail should be the same at both the top and bottom roller wheels of each pair. **Note:** The side arm tracking screws are pre-set at the factory and should need no further adjustment.

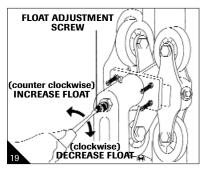


If it is necessary to adjust side arm tracking, loosen locknuts and turn side arm tracking screws until top and bottom roller wheels are parallel to the face of the rail. Now tighten locknuts. **Note:** If adjusted correctly, tracking screws should not restrict float or walking beam action of side arm assembly.

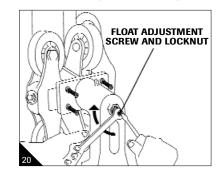


Repeat steps 14 through 17 for each remaining roller guide.

If the guides are equipped with adjustable stops, proceed with steps 19 and 20.



To set postwise float, turn adjustment screw clockwise until it makes contact with solid stop washer (installed in step 2 "Note"). At this point, there will be zero postwise float. To increase float, turn adjustment screw counterclockwise. **Note:** Each full turn equals 1/16"



When the desired amount of postwise float is set, tighten the locknut securely while holding float adjustment screw in place.

If installing guides equipped with polyurethane wheels, refer to step 21 for pertinent information.

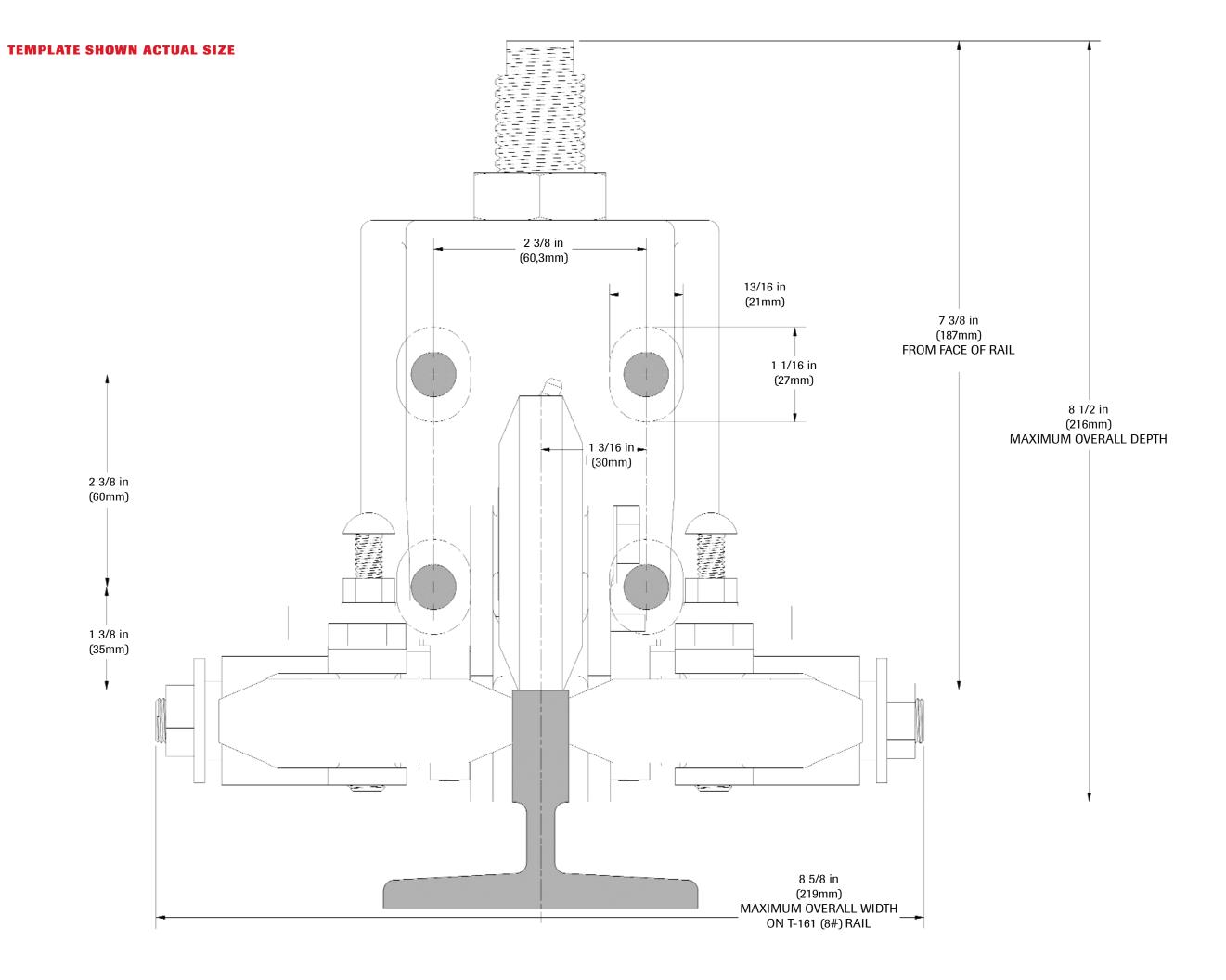


ELSCO's polyurethane roller wheels are a hard (95 Shore A durometer) polymer material intended for use on lower speed elevators when the roller wheel pressures exceed those specified for neoprene composition wheels (25 to 50 lbs., or 12 to 25kg).

While polyurethane roller wheels are capable of operating at higher pressures, it is advisable to keep static pressure as low as possible to prevent flat spots from forming while the elevator is sitting. Flat spots can adversely affect ride quality by causing rough and/or noisy ride. At higher pressures, it may not be possible to skid the wheels by hand.



After all adjustments have been made, ride elevator in both the up and down direction at inspection speed to check hoistway clearances. Check to be sure that all mounting bolts and/or nuts, and adjustment locknuts are securely tightened. Make several more runs at operating speed, then recheck float (if applicable), tracking and roller wheel pressures before returning elevator to service.





SPECIFICATIONS

Size and Weight

Height, Overall	' (346mm)
Width, Overall	' (219mm)
(Modified on Request)7-1/8"	' (181mm)
Depth, Overall Maximum8-1/2"	' (216mm)
Shipping Weight	. (12,7 kg)

Mounting Bolt Holes

Four Slots	11/16" x 1-1/16"	(17mm x 27mm)
Bolt Hole Locations	Refer to M	ounting Template

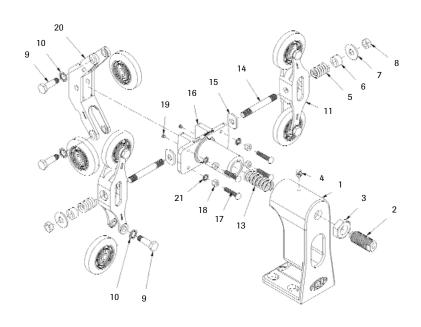
Roller Wheels

Thickness	(24mm)
Neoprene Tread Width	(13mm)
Polyurethane Tread Width	(13mm)
Diameter	(83mm)
Bearing I.D	(12mm)
Runout (Total Indicator Reading) 0.002"	(,051mm)

Options and Factory Modifications Available

- •Polyurethane composition roller wheels can be used to replace standard neoprene wheels in selected applications. Refer to the ELSCO guide selector chart or call an ELSCO guide specialist to determine proper applications. See our Frequently Asked Questions (FAQ) for more information about the trade-offs between neoprene and polyurethane wheel compositions.
- •Special "close clearance" modification is available to limit overall guide width to 7-1/8" (181mm) on 5/8" (16mm) rail widths where required for tight hoistway clearances, as in corner-post applications.
- •Cover plate kits are in stock and available for added safety and protection.
- •Seismic retainer plates are available for select rail sizes. Call or e-mail for more information.

PARTS LIST



Top Level Assembly for Model C Roller Guide with Std. Neoprene Rollers is EC18400. Top Level Assembly for Model C Roller Guide with Polyurethane Rollers is EC18445. Adjustable Stop Kits are available as an option under part no. EC18412.

■ Parts cannot be ordered individually, and must be ordered as a complete subassembly.

Model C Roller Guide

Key	Req.	Part #	Description	
1	1	EC18401	Bracket	
2	1	EC18414	Hub Adjustment Screw	
3	1	EC19762	Hub Adjustment Locking Nut	
4	1	EA18362	Grease Fitting	
5	2	EC18424	Side Arm Spring	
6	2	EC18416	Fiber Sleeve	
7	2	EC18421	Flat Washer	
8	2	EC18422	Locknut	
9	6	EC18417	Wheel Stud	
10	6	EC18440	Wheel Stud Lock Washer	
11	2	EC18411	Side Arm	
12	6	Roller Wheel - See Roller Wheel Options Below		
13	1	EC18425	Hub Spring	
14	2	■ EC18418	Side Arm Stud	
15	2	ED02008	Rubber Washer	
16	1	■ EC19751	Hub	
17	4	EA19747	Side Arm Tracking Screw	
18	4	EC18428	Hex Nut	
19	2	EC18387	Set Screw	
20	1	■ EC18409	Face Arm	
21	4	EF04131	Lock Washer	
Standard Roller Wheel Configuration for Typical Installations:				
12	6	EC18405	Standard Neoprene Roller Wheel Assembly,	
			3.25 in. (83mm)	
Polyurethane Roller Wheel Configuration for Heavy-Duty Installations:				
12	6	EC18441	Polyurethane Roller Wheel Assembly,	
			3.25 in. (83mm)	
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