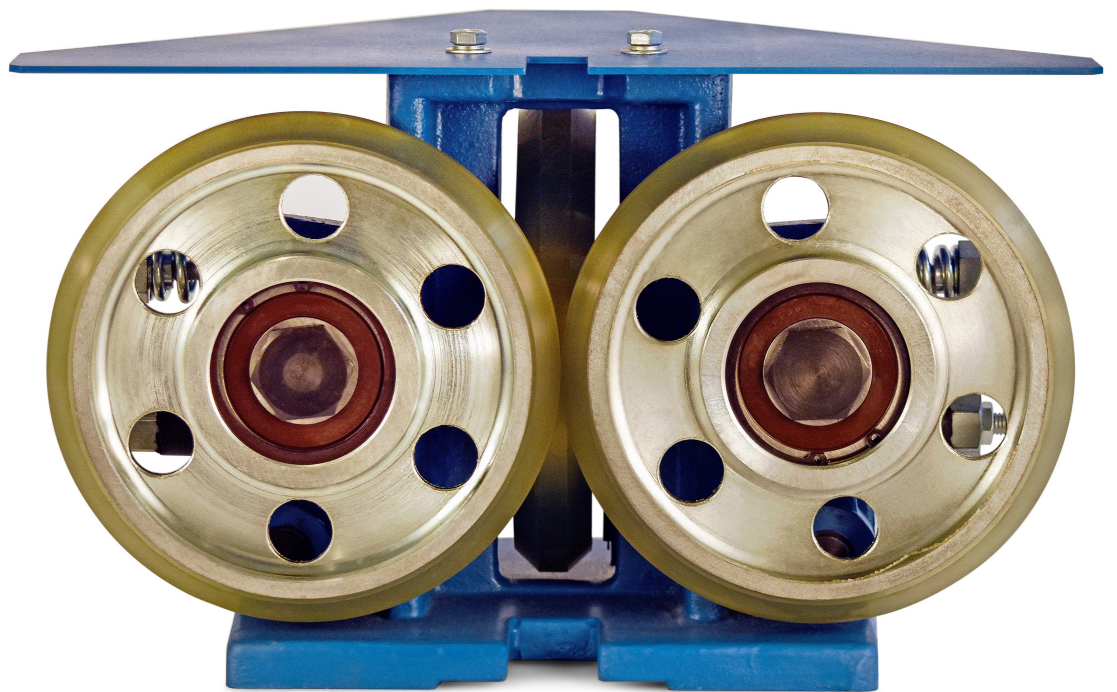




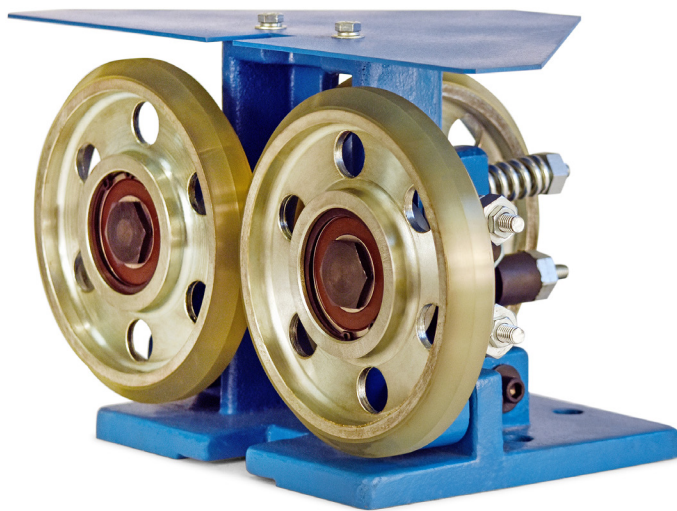
# 7<sup>7</sup>/<sub>8</sub>" STANDARD ROLLER GUIDE ASSEMBLY



[www.delcoelevators.com](http://www.delcoelevators.com)  
[info@delcoelevators.com](mailto:info@delcoelevators.com) | 1-866-900-3727

## 7<sup>7</sup>/<sub>8</sub>" STANDARD

With Stop Kit and Dust Cover



### Car Side up to 6000 lbs

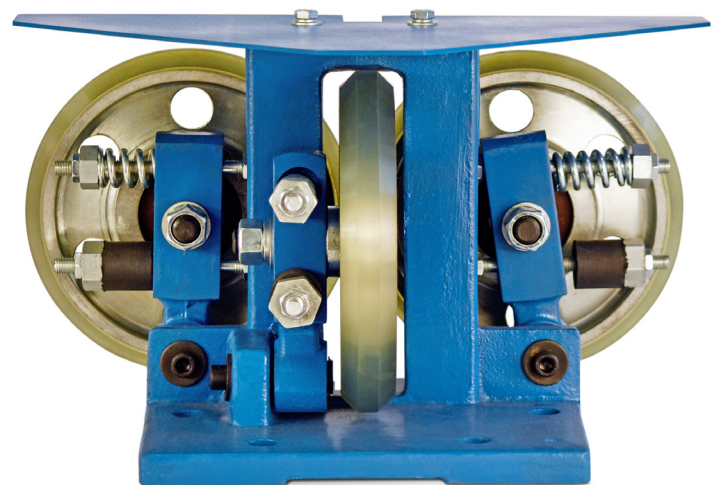
The Delco 7-7/8" Delco Roller Guide Assembly is best suited for car side applications for passenger and hospital elevators that require speeds up to 800fpm (4.0 m/s) and capacities up to 6,000 Lbs (2700 Kg).

These roller guide assemblies most often work in conjunction with Delco 6" Spring Free, C-08-0806, on the counterweight side.

### Features

This model comes with a stop kit and dust cover. It is particularly popular because it includes fully adjustable stabilizing springs and anti-vibration bushing (80-85 SH A) for each arm, as well as high precision bearings and a cast iron frame.

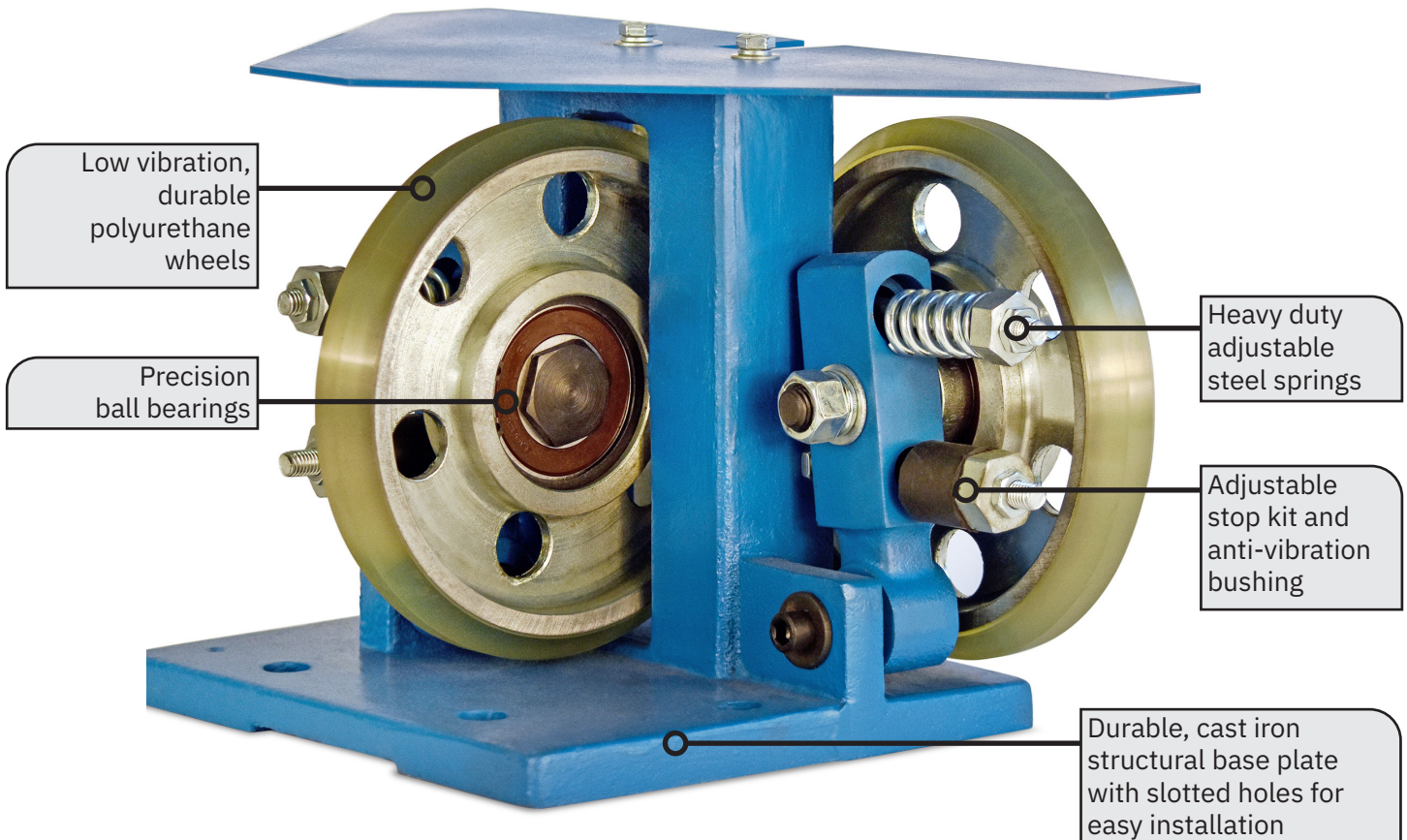
Due to the polyurethane wheels and high precision bearings, the Delco 7-7/8" Standard Roller Guide Assembly will consistently provide a smooth and quiet ride.



# ROLLER GUIDE ASSEMBLY



## 7 7/8" STANDARD Specifications



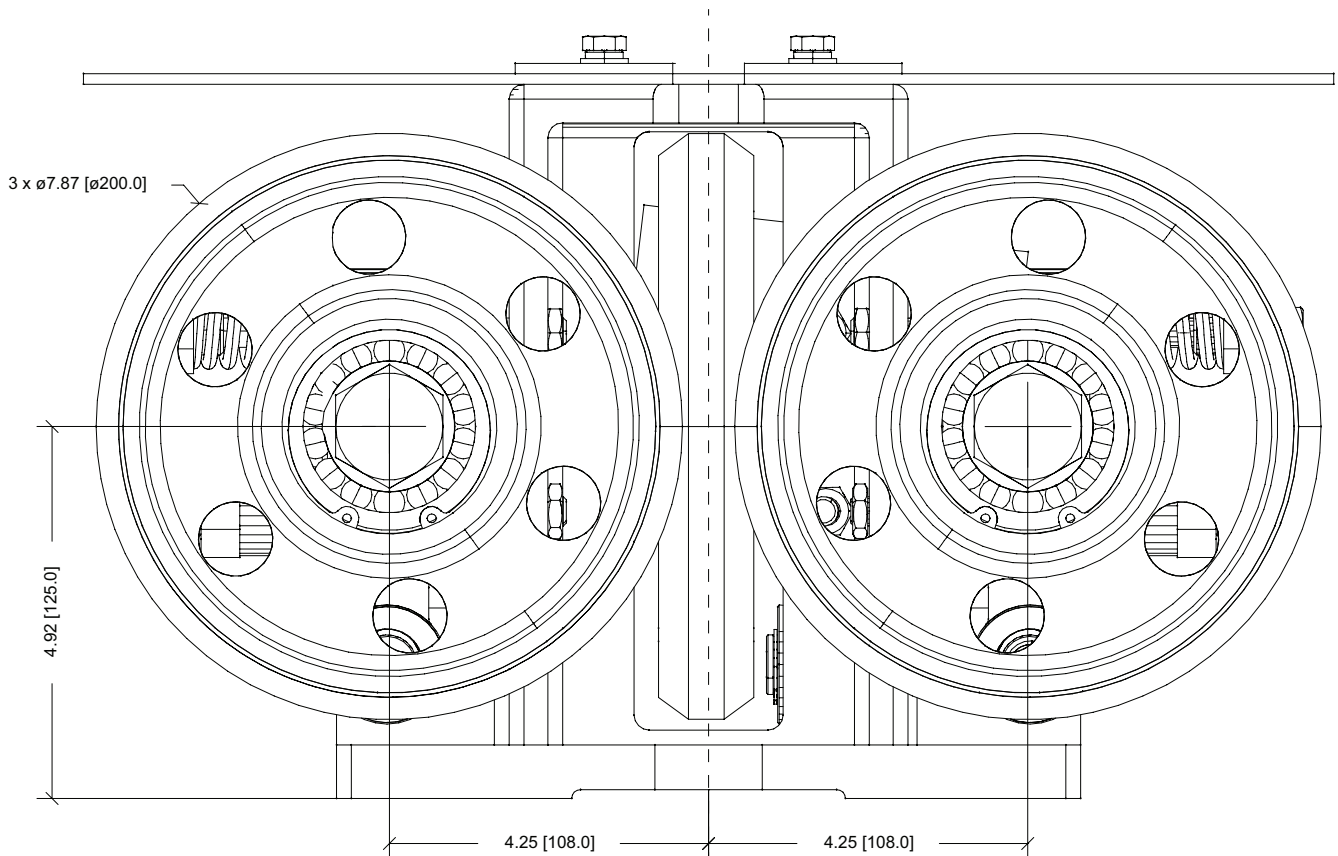
# C-08-0808

<b>Capacity</b>	up to 4410lbs (2000kg)
<b>Speed</b>	up to 787fpm (4.0m/s)
<b>Guide Rail Width</b>	10mm (27/64"), 16mm (5/8 ")
<b>Roller Diameter</b>	7 7/8" (200mm)
<b>Roller Material</b>	Polyurethane
<b>Roller Hardness</b>	80±5 (Durometer Shore A)
<b>Structural Frame</b>	Cast Iron
<b>Ball Bearings</b>	NSK 6306DU
<b>Weight</b>	60lbs (27kg)

# ROLLER GUIDE ASSEMBLY

## 7 7/8" STANDARD

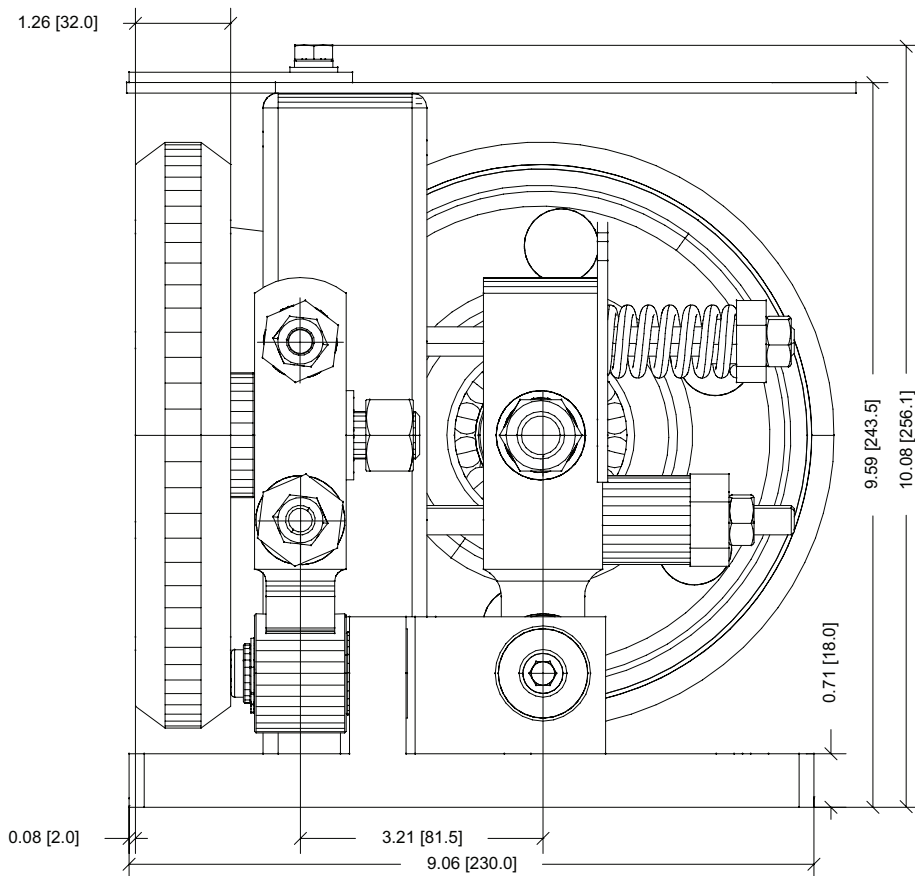
Diagram Front View



# ROLLER GUIDE ASSEMBLY

## 7 7/8" STANDARD

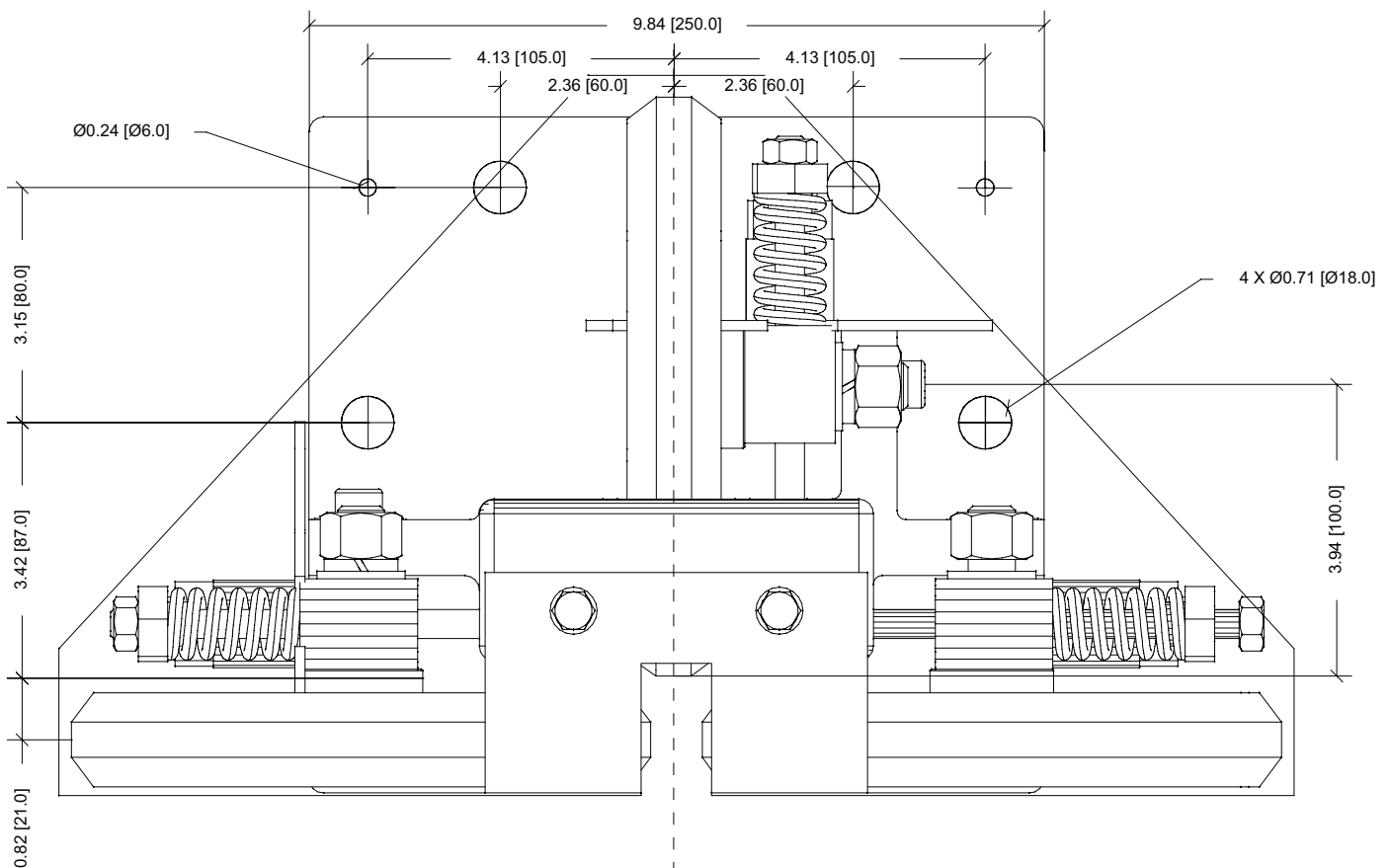
Diagram Side View



# ROLLER GUIDE ASSEMBLY

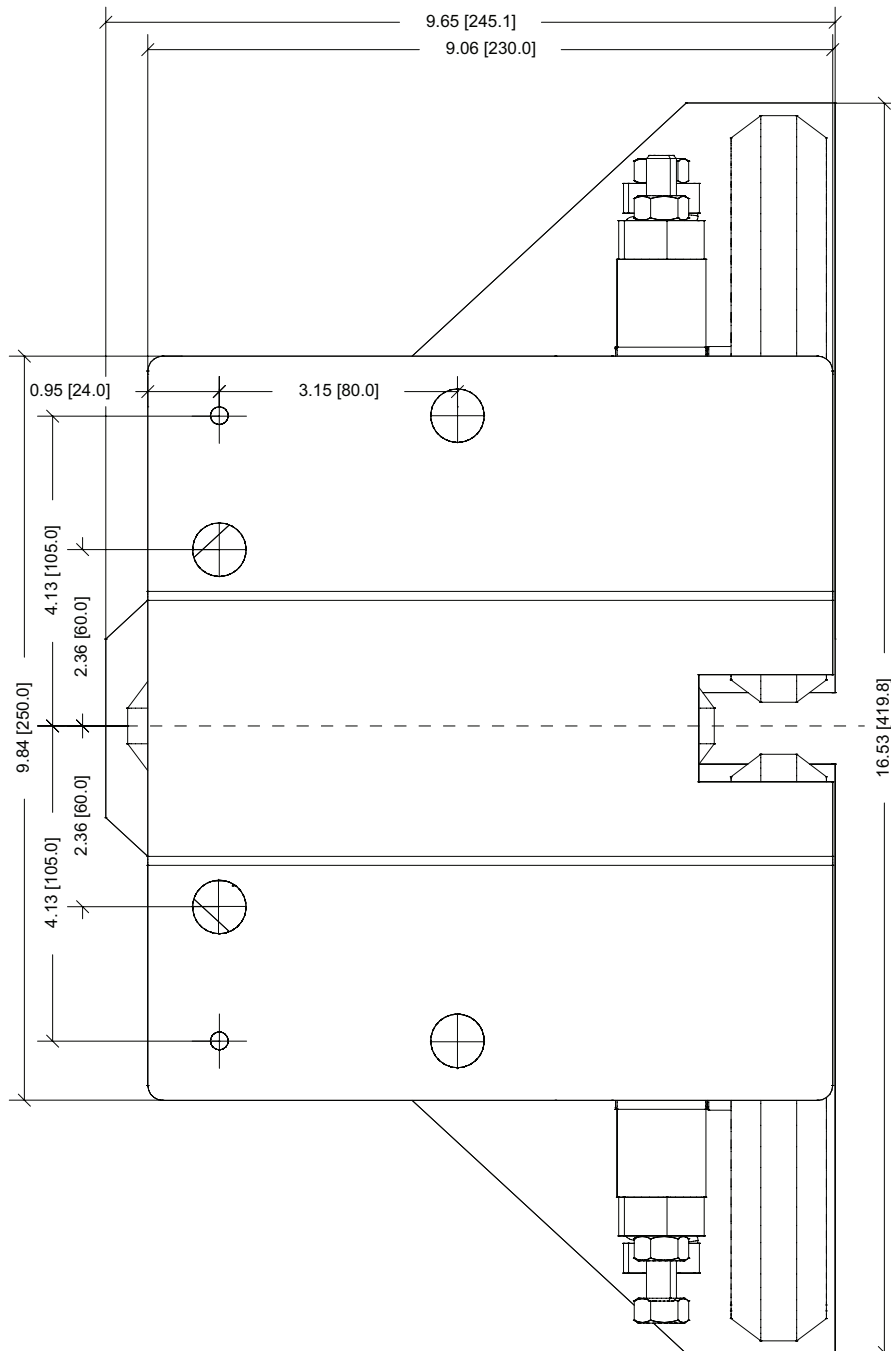
## 7 7/8" STANDARD

Diagram Top View



## 7 7/8" STANDARD

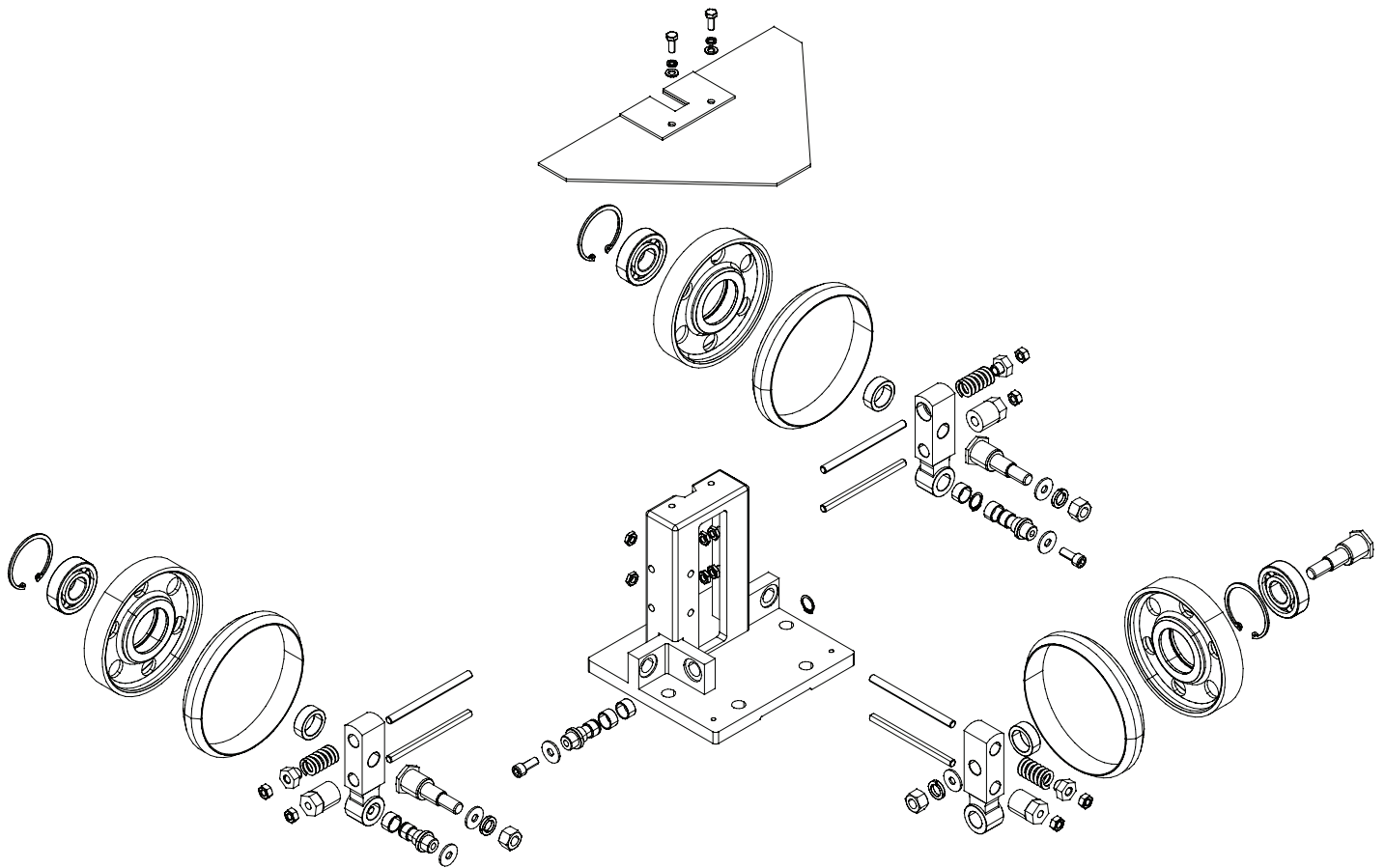
Diagram Baseplate View



# ROLLER GUIDE ASSEMBLY

## 7<sup>7</sup>/<sub>8</sub>" STANDARD

Exploded View





## 7<sup>7</sup>/<sub>8</sub>" STANDARD

### Installation Guide

**Note:** The following instructions are a guideline only. The installation process may need to be adjusted depending on the specific project and variable pre-existing conditions. Installations must be performed by a certified mechanic.

#### 1. Hole Pattern Alignment

- On new installations use a roller guide mounting hole template to determine the position of the mounting holes in the car/counterweight frame before drilling. Mark and drill holes in the frames, ensuring that the hole size is appropriate for the hardware recommended for the installation.
- For modernization applications check if existing hole pattern or studs match the mounting hole pattern on the guide rail. If the holes locations don't line up a custom made adaptor plate or bracket is required.

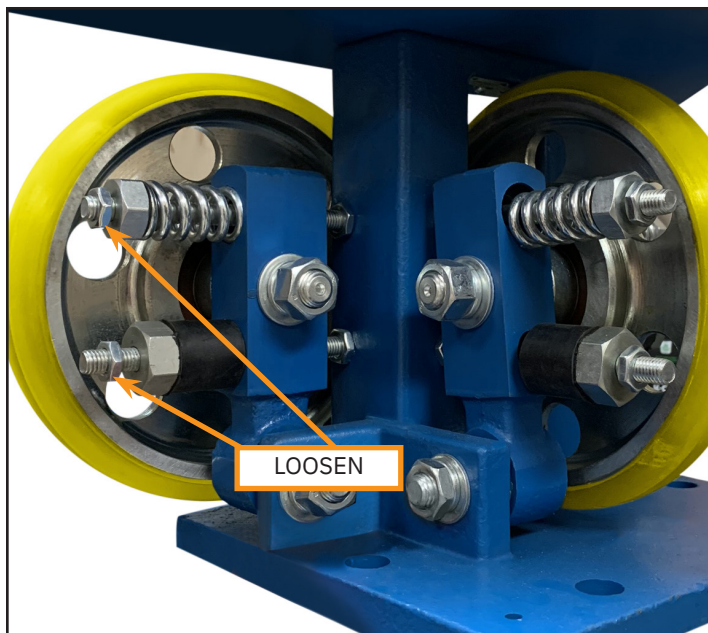


Diagram 1

#### 2. Release Pressure from Wheels

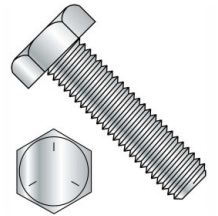
- Loosen the lock nuts on the spring rod and the stop kit. (See Diagram 1).
- Ensure spring is not compressed and there is clearance with the arm

#### 3. Position Guide on Rails

- Position guide over the mounting holes or studs. Make sure that the guide rail is centered on the rail.
- Ensure that guides are aligned properly on the rail.

#### 4. Recommended Hardware

- Use M16 Class 8.8 or 5/8-11 Grade 5 Hex Head bolts and/or nut together with matching grade split lock washers and flat washers.
- Ensure the length of the bolt used will provide a minimum of 1.5 x diameter thread engagement.



#### 5. Tighten Connection

- Securely tighten the mounting bolts and/or nuts until split washer is fully compressed.

## 7<sup>7</sup>/<sub>8</sub>" STANDARD

### Installation Guide

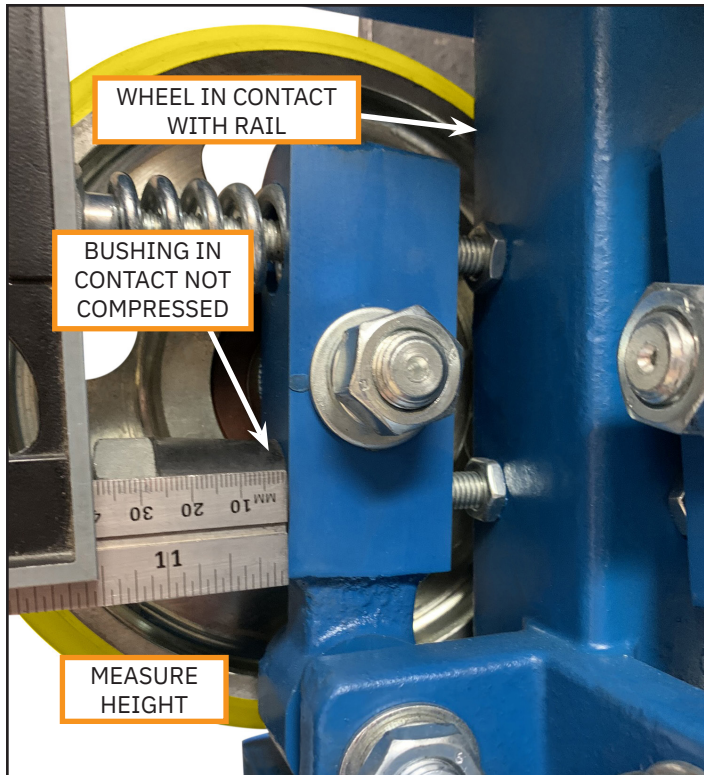


Diagram 2

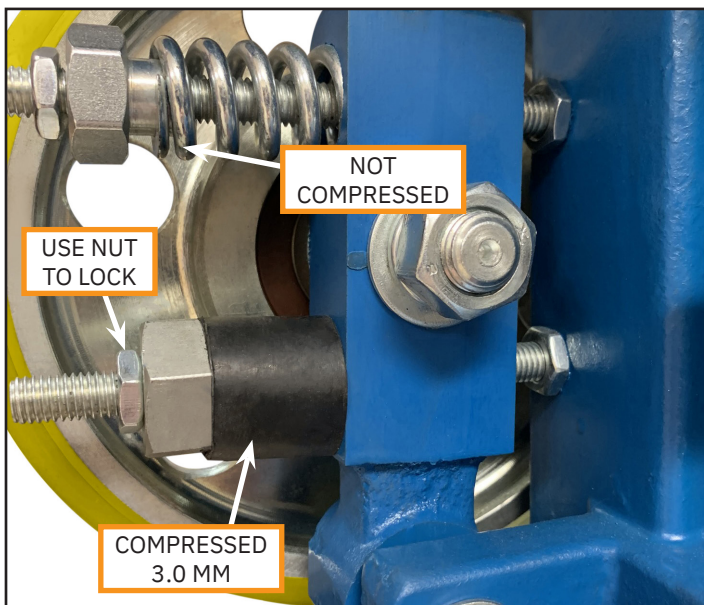


Diagram 3

### 6. Pressure Adjustment for Side Arm Wheels

- Make sure the face of the side arm wheels are tracking in the center of the rail.
- Rotate the large hex nut on the stop kit to ensure the anti-vibration bushing is in contact with the arm and the wheel is in contact with the rail (See Diagram 2). Repeat the operation on the other side.
- Measure the height of the anti-vibration bushing (See Diagram 2)
- Using the large hex nut adjust the anti-vibration bushing on each side to ensure that it is compressed between **3-6 mm** (See Diagram 3).
- Rotate the large hex head on the spring rod to ensure that the spring is in contact with the arm but is not compressed (See Diagram 3). Repeat on the other side.
- Measure the height of the spring (See Diagram 4).

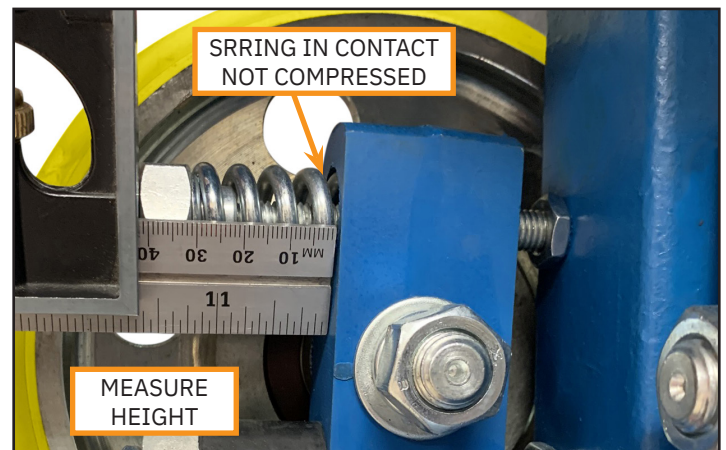


Diagram 4

## 7 7/8" STANDARD

### Installation Guide

- Using a wrench turn the large hex nut to compress the spring until the spring is compressed **3-5 mm** from free length. Lock the position using the second nut provided (See Diagram 5). Repeat on the other side. The pressure of the two stabilizing springs should be the same.
- To ensure the correct pressure is achieved on the wheel, check that wheels can be skidded by hand on the rail with moderate effort.

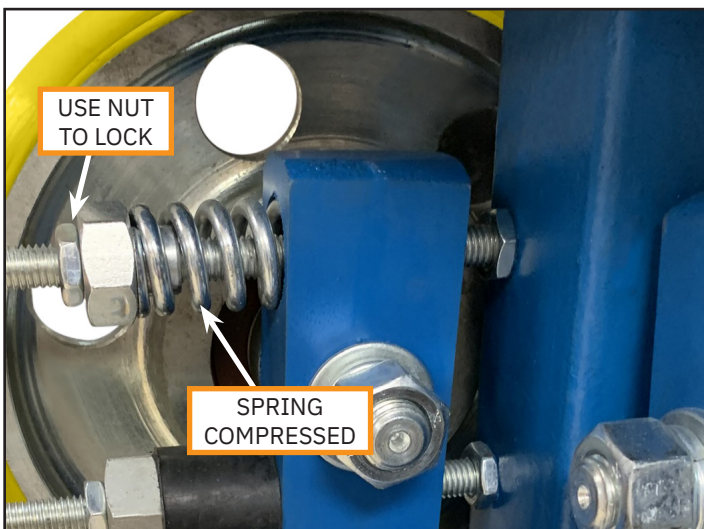


Diagram 5

#### Important!

- Do not oil the guide rail. Oiling will cause slippage.
- Check the roller guide assembly regularly after correct installation to ensure that it is running evenly and smoothly.
- Be sure to replace the guide wheels as soon as any uneven abrasion on the roller surface or cracks are observed on the springs.

### 7. Pressure Adjustment for Front Arm Wheel

- Make sure the face arm wheels are tracking in the center of the rail.
- Rotate the large hex head on the stop kit to ensure the anti-vibration bushing is in contact with the arm and the wheel is in contact with the rail.
- Measure the height of the anti-vibration bushing.
- Using the large hex nut adjust the anti-vibration bushing to ensure that it is compressed between **3-6 mm**. After adjustment use the second nut to lock the adjustment.
- Rotate the large hex head on the spring rod to ensure that the spring is in contact with the arm but is not yet compressed.
- Measure the height of the spring.
- Using a wrench turn the large hex nut to compress the spring until the spring is compressed **2-4 mm**. Use second nut to lock the position.
- To ensure the correct pressure is achieved on the wheel, check that wheels can be skidded by hand on the rail with moderate effort.

### 8. Complete Installation

- Install the remaining roller guides on top and/or underneath the elevator/counterweight.
- Repeat the same steps for the lower roller guide assembly (when applicable).

## ROLLER GUIDES

8 Models | up to 3000 KG | up to 1200 fpm

With over 12,000 Delco Roller Guide Assemblies installed and running every day, our products are being relied on by hundreds of elevator contractors.

**CAPACITY: 0 – 6615 LBS (3000 KG)**  
**SPEED: 0 – 1200 FPM (6.0M/S)**

Meeting the requirements for over 90% of elevator installations, Delco offers 8 different RGA models. Low-rise, mid-rise and high-rise buildings throughout North America use Delco Roller Guides.

Easy to install and easy to maintain, Delco Roller Guides are manufactured with high precision, using the best materials, to provide many years of worry-free operation in many different elevator installation situations.

**Delco's roller guides are made with the best materials.**

### Rollers

High quality polyurethane roller tires, with a hardness of  $80\pm 5$  (Durometer Shore A) provide a comfortable, smooth ride. Polyurethane has a high compression strength and doesn't create flat spots, ensuring reliable operation for many years.

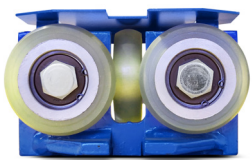
### Frame materials

The cast iron frames and heavy duty hardware ensures a long life in all elevator hoistway environments.

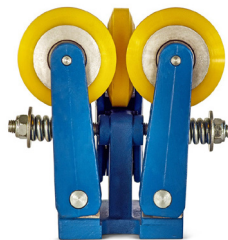
### Precision Ball Bearings

Delco Roller Guides are made with NSK ball bearings manufactured in Japan, recognized world-wide as the most reliable, high performance bearings.

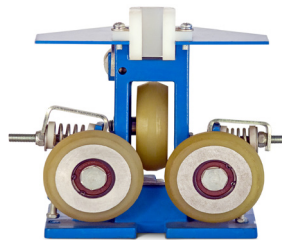
## Product Line



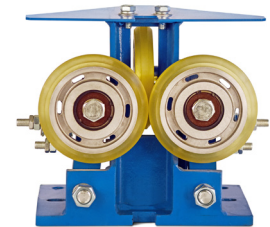
3" SPRING FREE  
C-08-0815 (16 mm)  
C-08-0817 (10 mm)



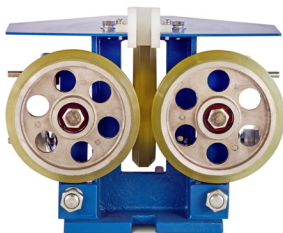
3¼" STANDARD  
C-08-0810



3¼" HIGH SPEED  
C-08-0807



5" STANDARD  
C-08-0805



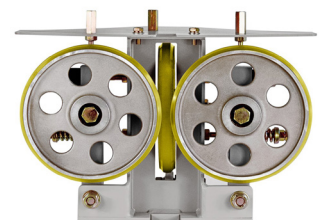
6" STANDARD  
C-08-0804



6" SPRING FREE  
C-08-0806



7⅞" STANDARD  
C-08-0808



10" HIGH SPEED  
C-08-0803

## SELECTION GUIDE

Passenger Elevator	0-500fpm (0-2.5m/s)		600-800fpm (3.0-4.0m/s)		1000-1200fpm (5.0-6.0m/s)	
	Delco Car	Delco CWT	Delco Car	Delco CWT	Delco Car	Delco CWT
<3000lbs (<1350kg)	C-08-0805 C-08-0804	C-08-0810 C-08-0807 C-08-0815	C-08-0804	C-08-0807	C-08-0803	N/A
3500lbs (1600kg)	C-08-0805 C-08-0804	C-08-0810 C-08-0807 C-08-0815	C-08-0804	C-08-0807	C-08-0803	N/A
4000lbs (1800kg)	C-08-0804	C-08-0810 C-08-0807 C-08-0806	C-08-0804	C-08-0807	C-08-0803	N/A
4500lbs (2050kg)	C-08-0808	C-08-0806	C-08-0808	C-08-0806	C-08-0803	N/A
5000lbs (2300kg)	C-08-0808	C-08-0806	C-08-0808	C-08-0806	C-08-0803	N/A
6000lbs (2700kg)	C-08-0808	C-08-0806	C-08-0808	C-08-0806	C-08-0803	N/A
7000lbs (3200kg)	C-08-0803	C-08-0806	C-08-0803	C-08-0806	N/A	N/A

Hospital Elevator	0-250fpm (0-1.25m/s)		300-500fpm (1.5-2.5m/s)		600-800fpm (3.0-4.0m/s)		1000-1200fpm (5.0-6.0m/s)	
	Car	CWT	Car	CWT	Car	CWT	Car	CWT
<3000lbs (<1350kg)	C-08-0805 C-08-0804	C-08-0810 C-08-0807 C-08-0815	C-08-0805 C-08-0804	C-08-0810 C-08-0807 C-08-0815	C-08-0804	C-08-0807 C-08-0815	C-08-0803	N/A
3500lbs (1600kg)	C-08-0805 C-08-0804	C-08-0810 C-08-0807 C-08-0815	C-08-0805 C-08-0804	C-08-0810 C-08-0807 C-08-0815	C-08-0804	C-08-0807	C-08-0803	N/A
4000lbs (1800kg)	C-08-0804	C-08-0806	C-08-0804	C-08-0806	C-08-0804	C-08-0807	C-08-0803	N/A
4500lbs (2050kg)	C-08-0808	C-08-0806	C-08-0808	C-08-0806	C-08-0808	C-08-0806	N/A	N/A
5000lbs (2300kg)	C-08-0808	C-08-0806	C-08-0808	C-08-0806	C-08-0808	C-08-0806	N/A	N/A
6000lbs (2700kg)	C-08-0808	C-08-0806	C-08-0808	C-08-0806	C-08-0808	C-08-0806	N/A	N/A
7000lbs (3200kg)	C-08-0803	C-08-0806	C-08-0803	C-08-0806	C-08-0803	C-08-0806	N/A	N/A

### Freight Elevator

For freight elevator applications the Roller Guide Assembly selection will be based on the number of guide rails. For applications with 2 guide rails, refer to the Passenger Elevator chart above. For applications with 4 or more guide rails, please contact us.

### Important!

Please note that this table is only to be used as a guideline. Roller Guide Assembly selection must take many other criteria into consideration that can't be accounted for in this chart. Please contact us for selection assistance.

# ROLLER GUIDE ASSEMBLY

