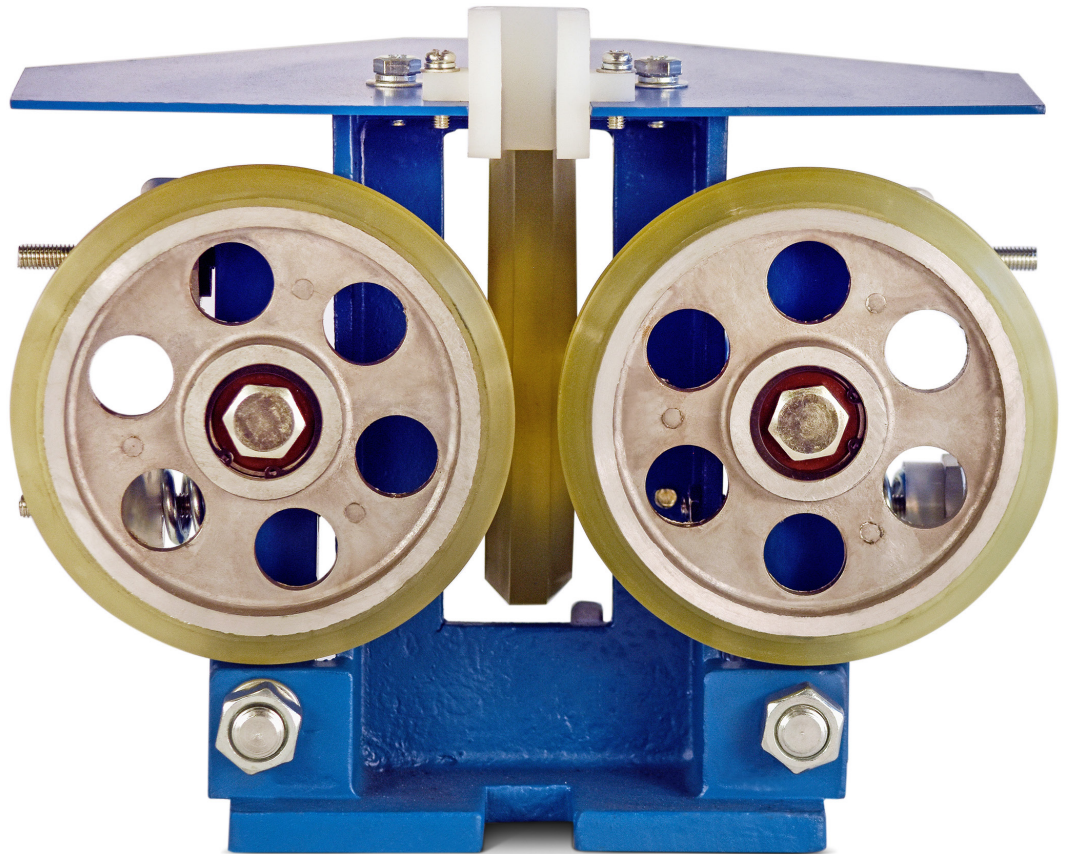




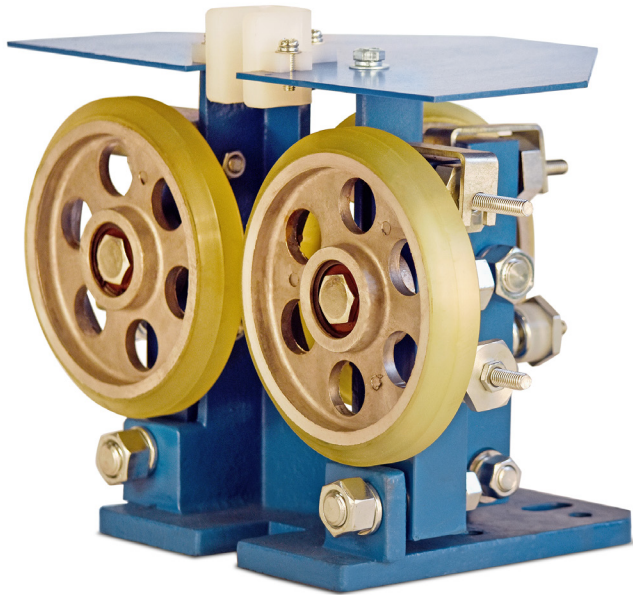
# 6" STANDARD ROLLER GUIDE ASSEMBLY



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

## 6" STANDARD

Spring Loaded with Stop Kit and Dust Cover



### Most Popular Model

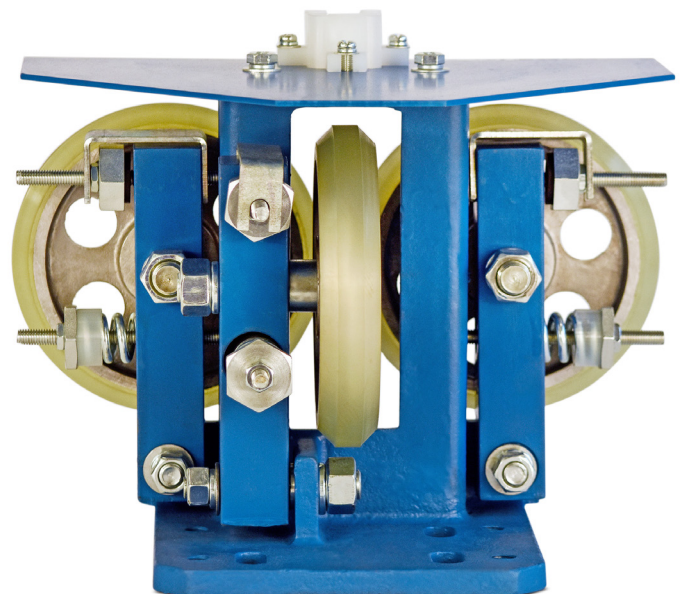
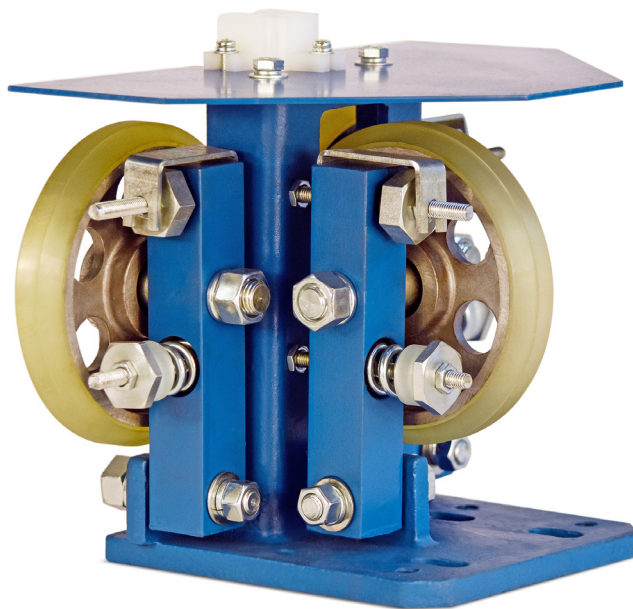
The Delco 6" model is our most popular as it's suited for the majority of passenger and hospital elevator installations.

Suitable for speeds up to 800 fpm and capacities up to 4000 Lbs, this model can be used in many different situations. Most often these roller guide assemblies are used in conjunction with Delco Roller Guides C-08-0810 and C-08-0807 on the counterweight side

### Features

This model comes with a stop kit, U bracket, dustcover and plastic alignment guide. It is particularly popular because it includes fully adjustable stabilizing springs, high precision bearings and a cast iron frame

The Delco 6" roller guide assembly also has multiple installation hole patterns to match field mounting patterns.



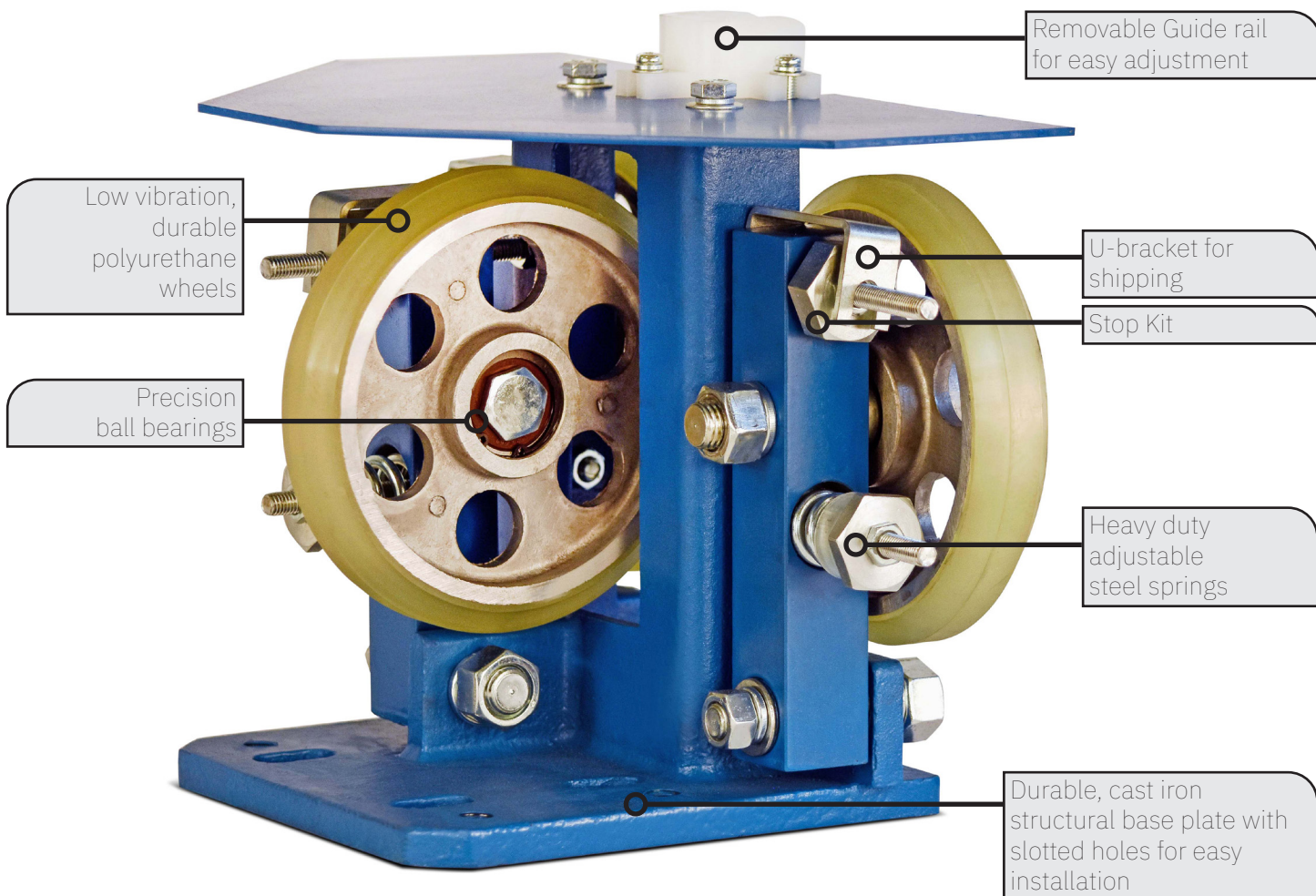


# ROLLER GUIDE ASSEMBLY



## 6" STANDARD

### Specifications

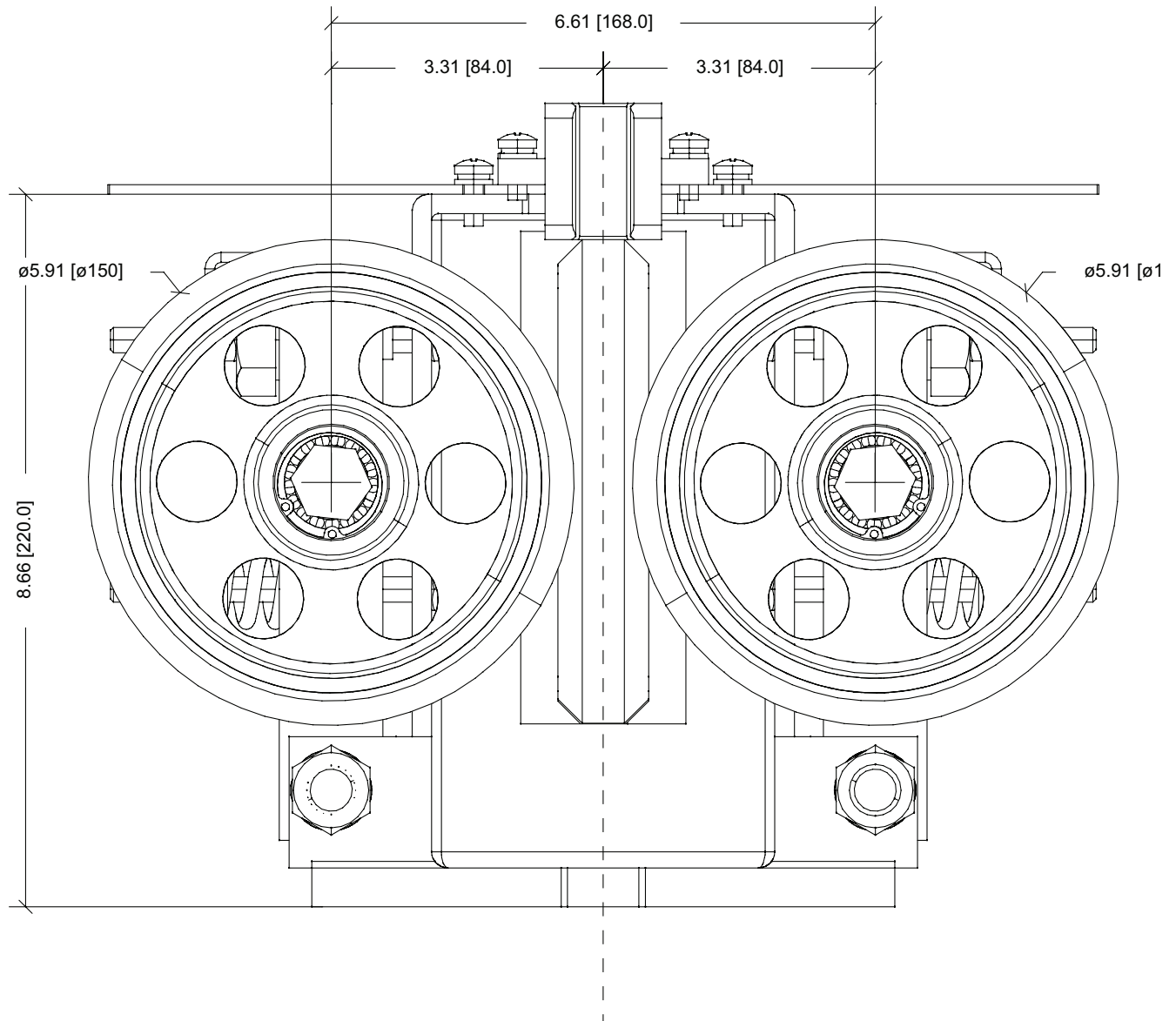


# C-08-0804

Capacity	up to 3527lbs (1600kg)
Speed	up to 688fpm (3.5m/s)
Guide Rail Width	10mm (27/64"), 16mm (5/8 ")
Roller Diameter	6" (152mm)
Roller Material	Polyurethane
Roller Hardness	80±5 (Durometer Shore A)
Structural Frame	Cast Iron
Ball Bearings	NSK 6006DU
Weight	29lbs (13kg)

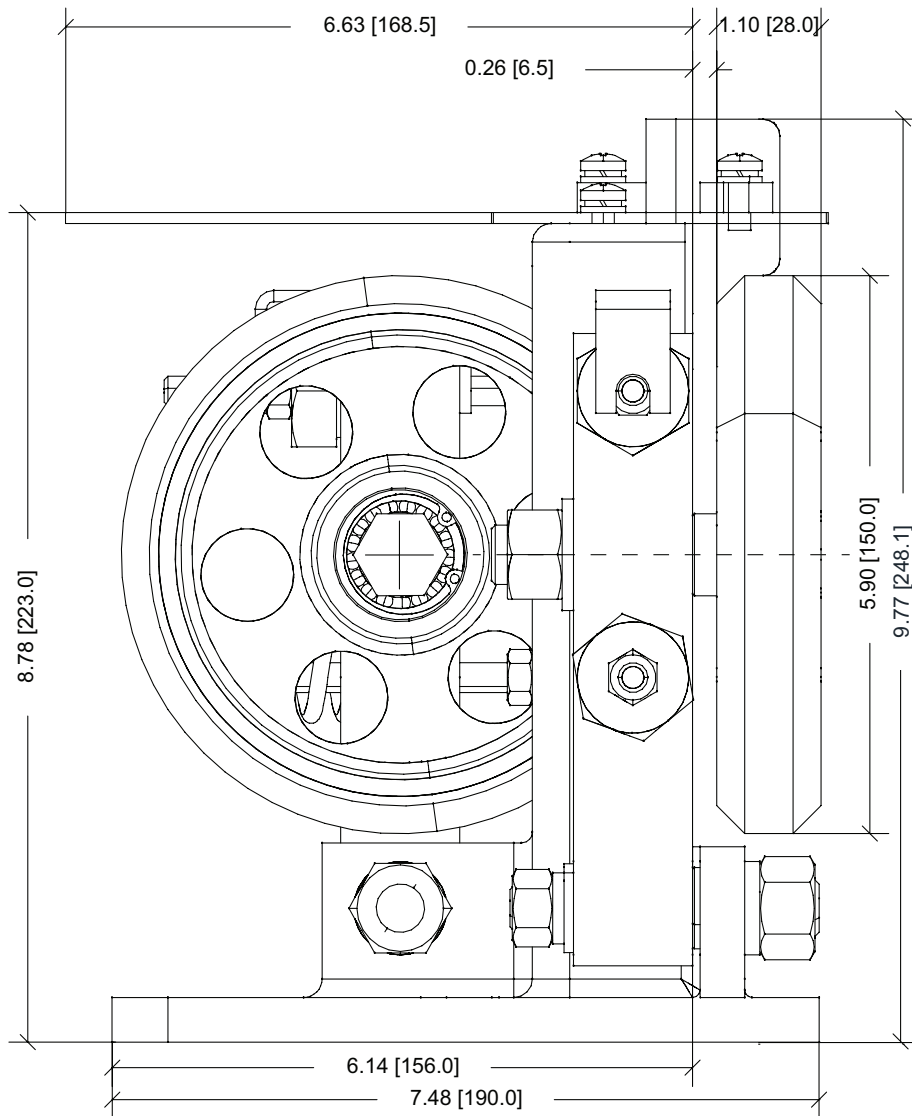
## 6" STANDARD

Diagram Front View



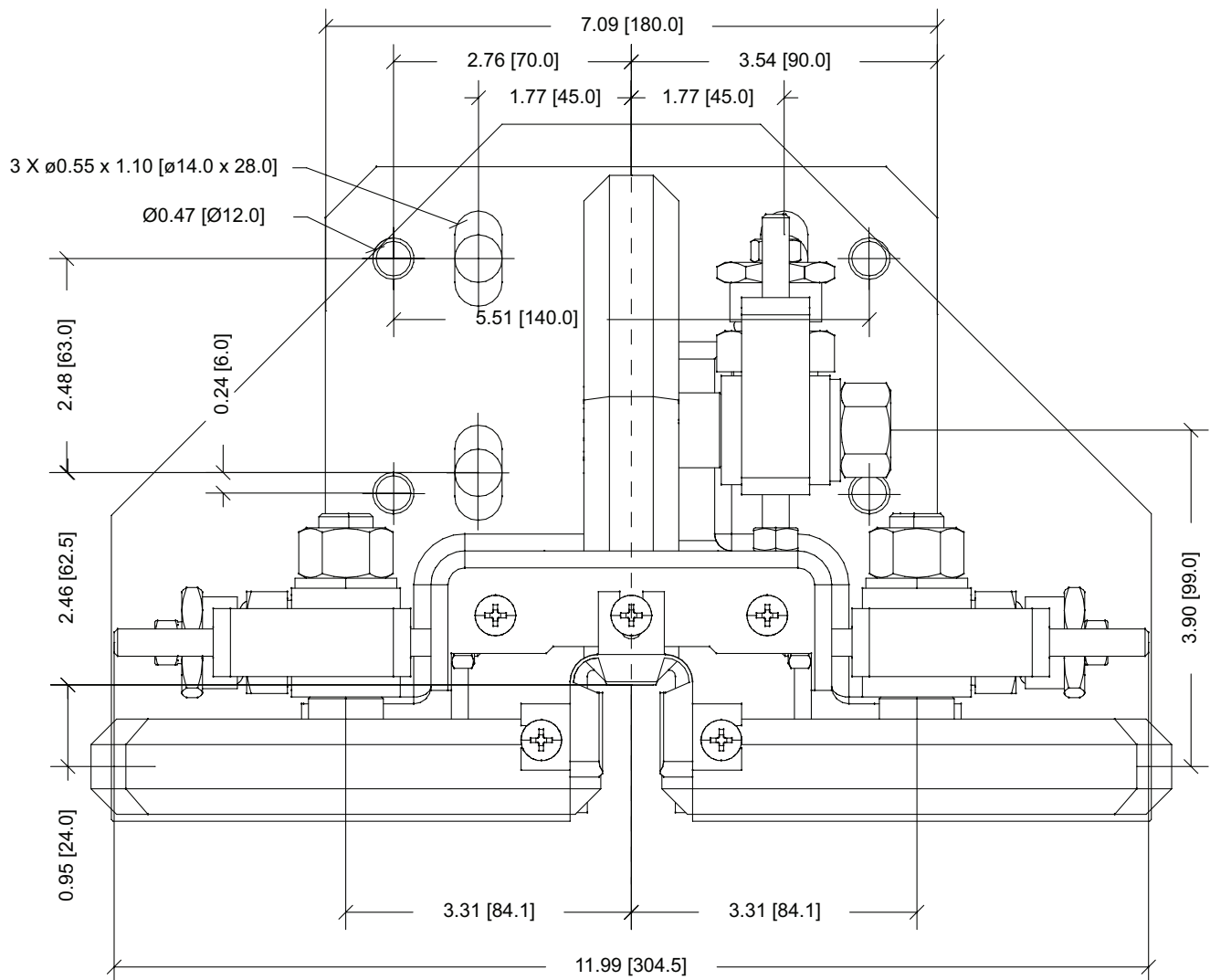
## 6" STANDARD

Diagram Side View



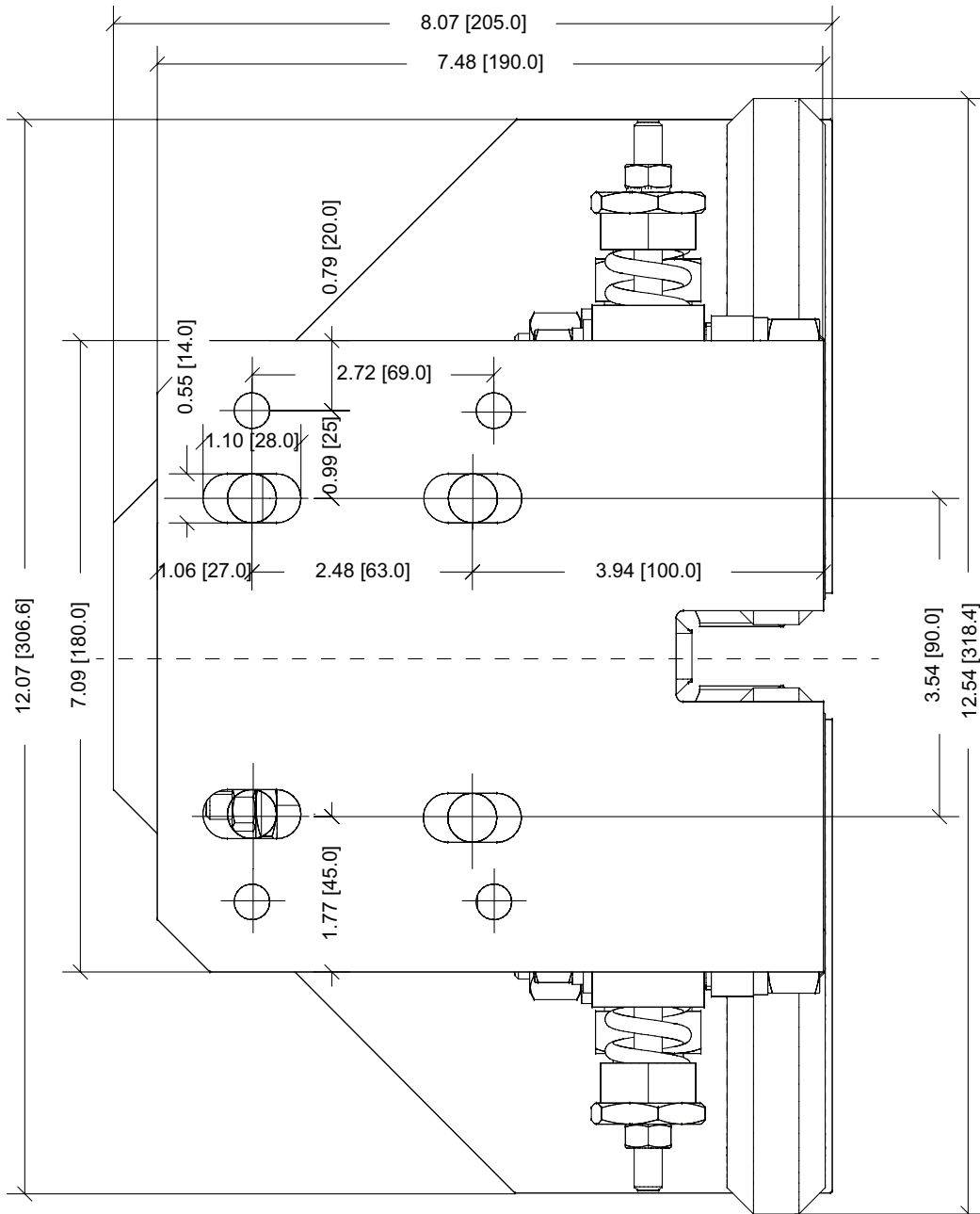
## 6" STANDARD

Diagram Top View



## 6" STANDARD

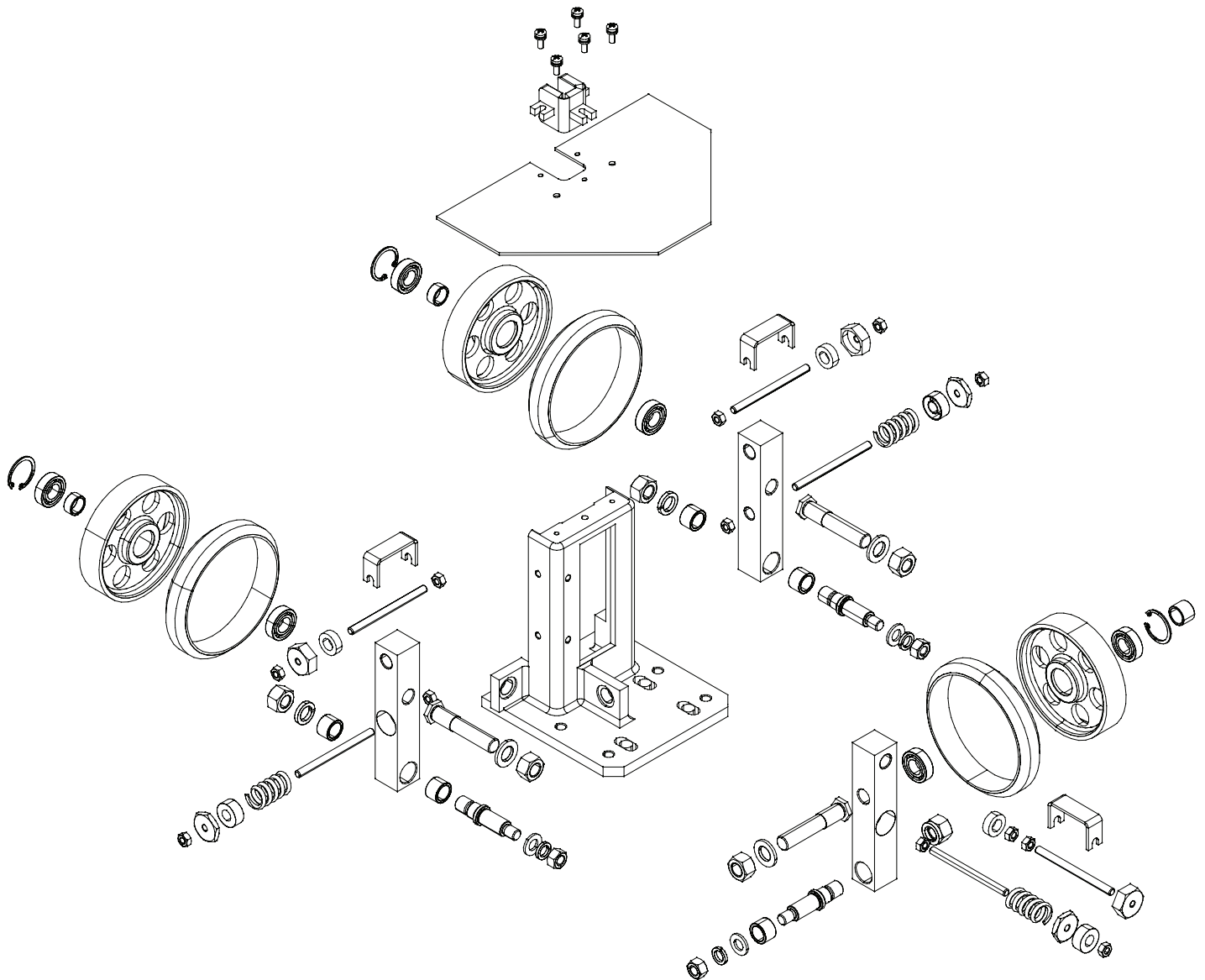
Diagram Baseplate View



# ROLLER GUIDE ASSEMBLY

## 6" STANDARD

Exploded View





## 6" 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.

#### 2. Remove U-Brackets

- The U-brackets are only for shipping and can now be removed. Loosen the lock nuts on the stop kit (See Diagram 1).

#### 3. Release Pressure from Wheels

- Back up the spring nut to ensure spring is free and not compressed. Repeat this on all wheels (See Diagram 2).

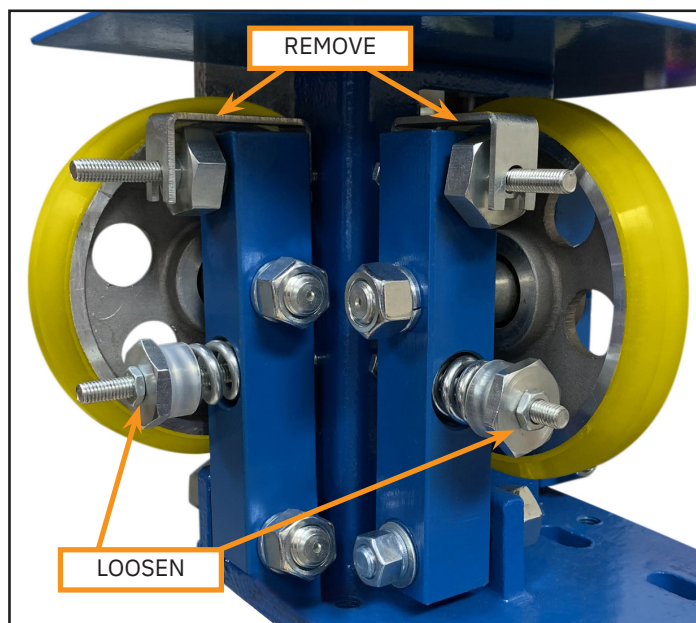


Diagram 1

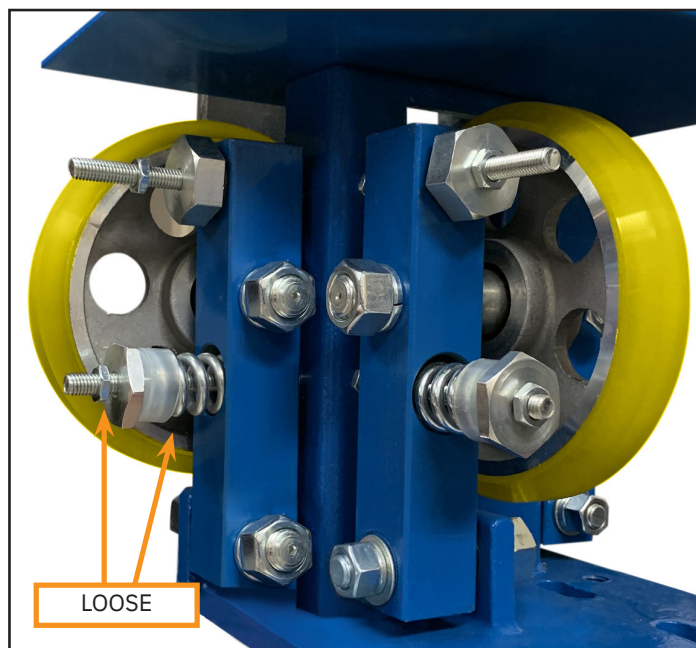


Diagram 2

## 6" STANDARD

### Installation Guide

#### 4. Position Guide on Rails

- Position guide over the mounting holes or studs.
- Make sure that guide rail is engaged with the white plastic guide, mounted on top of the guide rail (See Diagram 3). This will ensure that the guide is centered on the rail.

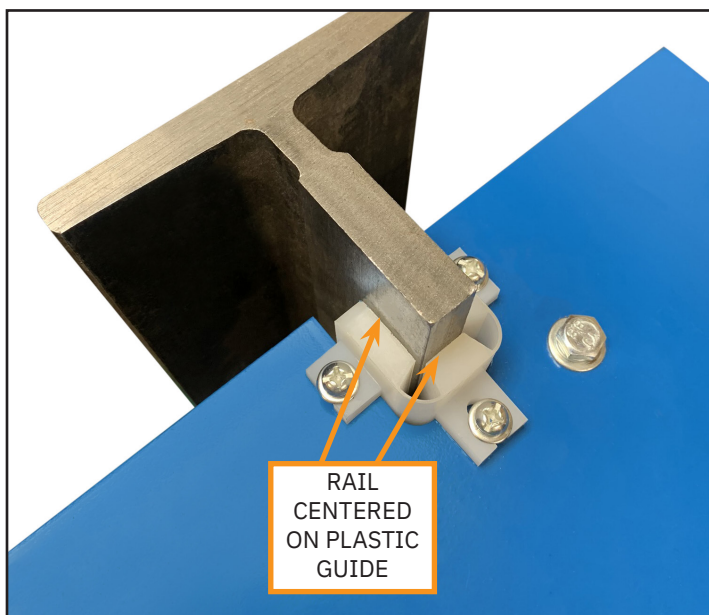
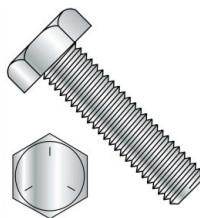


Diagram 3

#### 5. Recommended Hardware

- Use M12 Class 8.8 or 1/2-13 Grade 5 Hex Head bolts and/or nuts 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.



#### 6. Tighten Connection

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

#### 7. Pressure Adjustment for Side Arm Wheels

- Make sure the face of the side arm wheels are tracking in the center of the rail (See Diagram 4).
- Rotate the stop kit large hex nut until wheel makes contact with the rail. Tighten the second nut on the stop kit to lock the position. Repeat operation on the other side.

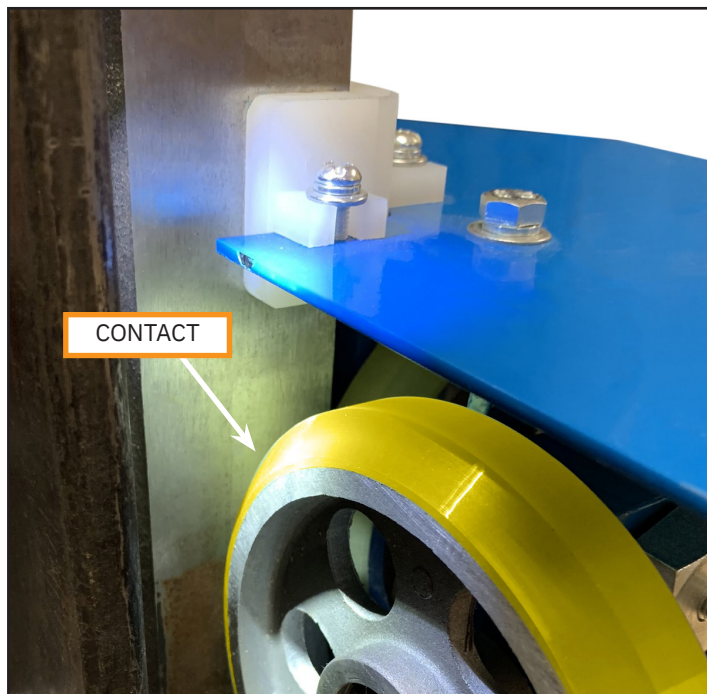


Diagram 4

## 6" STANDARD

### Installation Guide

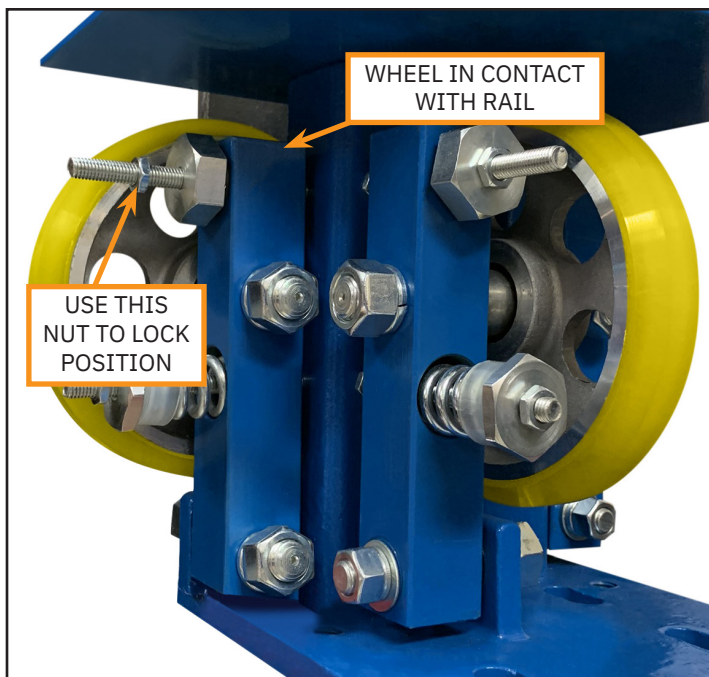


Diagram 5

- Turn the large hex nut on the spring rod until the spring is in contact with the arm and the washer, but the spring is not yet compressed (See Diagram 5). Repeat the operation on the other side.
- Measure the height of the spring (See Diagram 6).
- 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.
- Repeat the operation 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.

### 8. Pressure Adjustment for Front Arm Wheel



Diagram 6

- Make sure the face arm wheels are tracking in the center of the rail.
- Rotate the stop kit large hex nut until the wheel makes contact with the rail. Tighten the second nut on the stop kit to lock the position. Turn the large hex nut on the spring rod until the spring is in contact with the arm and the washer, but the spring 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.



## 6" STANDARD

### Installation Guide

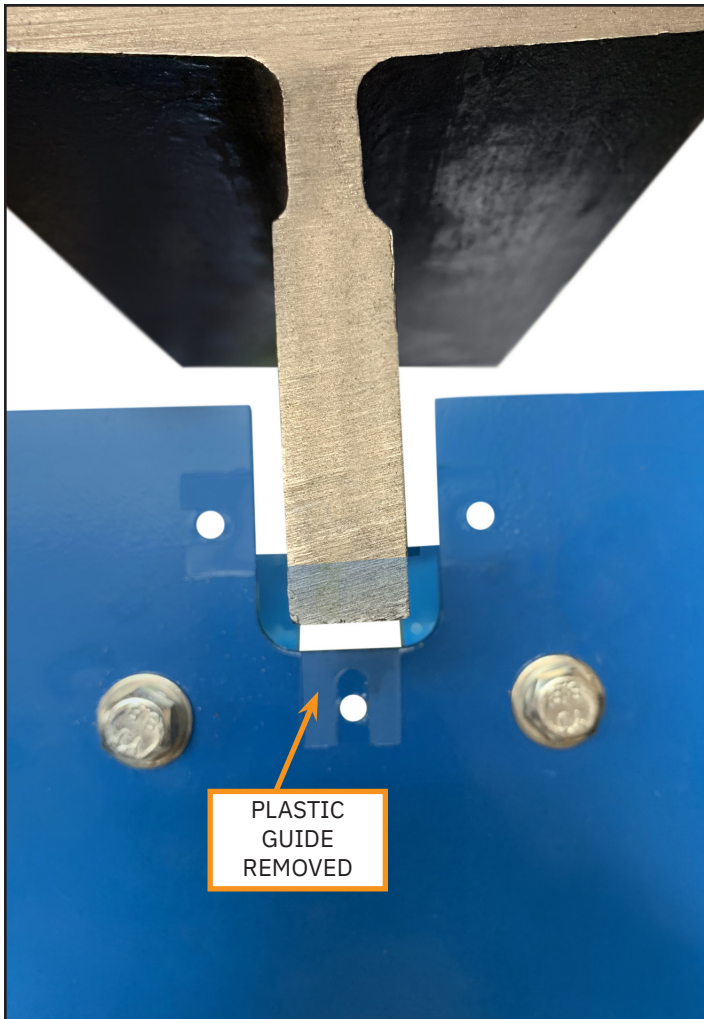


Diagram 7

#### 9. Remove the Guide

- Remove the white plastic alignment guide (See Diagram 7).

#### 10. 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).

#### 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.

# 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.

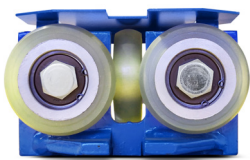
### Frame materials

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

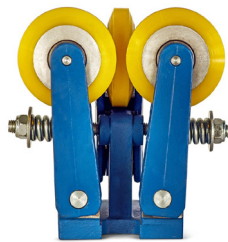
### Precision Ball Bearings

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

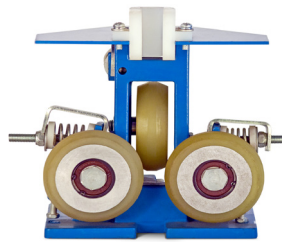
## Product Line



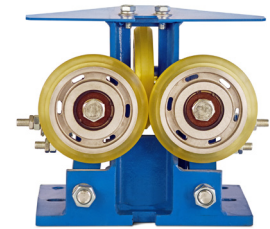
3" SPRING FREE  
C-08-0815 (16 mm)  
C-08-0817 (10 mm)



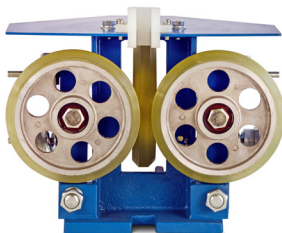
3¼" STANDARD  
C-08-0810



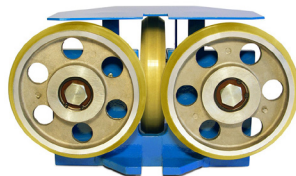
3¼" HIGH SPEED  
C-08-0807



5" STANDARD  
C-08-0805



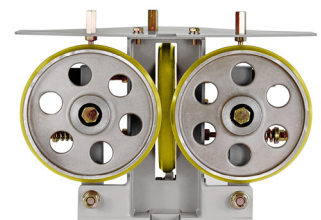
6" STANDARD  
C-08-0804



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

