

WALLSLIDE MANUAL

Ford Transit, 148" Wheel Base, Mid Roof



Mercedes Sprinter, 144" Wheel Base



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Introduction

Thank you for purchasing this model of the WallSlide product line of CargoGlide. The WallSlide system is designed to minimize and/or eliminate the need to ever crawl or extend into the cargo area of the van to retrieve items. The CargoGlide WallSlide system is a better way to get your gear.

READ THIS MANUAL THOROUGHLY

If you do not understand any portion of this manual, contact CargoGlide or your nearest CargoGlide WallSlide dealer for operating and servicing procedures.

This manual must be used in conjunction with the appropriate installation guide.

Throughout the publication, DANGER, WARNING, CAUTION and NOTE blocks are used to alert you to special instruction about an operation considered hazardous if performed incorrectly or carelessly. The definitions are as follows:

!!DANGER!!

After this heading, you can read instructions that, if not strictly complied with, will result in serious personal injury or property damage.

!!WARNING!!

After this heading, you can read instructions that, if not strictly complied with, may result in personal injury or property damage.

!!CAUTION!!

After this heading, you can read instructions that, if not strictly complied with, could result in damage to equipment and/or property.

NOTE:

After this heading, you can read explanatory statements that require special emphasis.

These safety warnings cannot eliminate the hazards they indicate. Common sense and strict compliance with special instructions while performing the service are essential to preventing accidents. The operator is responsible for proper and safe use of the equipments. We strongly recommend the operator read this *Owner's Manual* and thoroughly understand all instructions before using this equipment. We also strongly recommend instructing other users to properly operate the unit.

CONTENTS

This manual contains pertinent owner's information, including warranty, electrical diagrams, exploded views and list of repair parts for WallSlide models:

- WSS500 (Ford Transit Mid Roof 148" Wheel Base)
- WSS100 (Mercedes Sprinter 144" Wheelbase)

OPERATION AND MAINTENANCE

It is the operator's responsibility to perform all safety checks, to make sure all maintenance is performed promptly and properly and to have equipment checked by WallSlide authorized installers periodically. Normal maintenance service and replacement of parts are the responsibility of the owner/operator and, as such, are not considered defects in material or workmanship within the terms of the warranty. Individual operating habits and usage contribute to the needs and frequency for maintenance service.

Proper maintenance and care of your WallSlide ensure a minimum number of problems and keep your operating expenses at a minimum. See your authorized WallSlide installer or contact CargoGlide for service aids and accessories.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS- The manufacturer suggests the rules for safe operation be copied and posted on the WallSlide Unit. Safety should be stressed to all operators and potential operators of this equipment.

Study these SAFETY RULES carefully before installing, operating or servicing this equipment. Become familiar with the *Owner's Manual* and the unit. The WallSlide system can operate safely, efficiently and reliably only if it is properly installed, operated and maintained. CargoGlide cannot possibly anticipate every possible circumstance that might involve a hazard. The warnings in this manual, therefore, are not all-inclusive. If you use a procedure, work method or operating technique CargoGlide does not specifically recommend, you must satisfy yourself that it is safe for you and others. You also must make sure the procedure, work method or operating technique that you choose does not render the WallSlide unsafe.

!!DANGER!!

- **Despite the safe design of this WallSlide, operating this unit imprudently, neglecting its maintenance or being careless can cause possible injury or property damage. Permit only responsible and capable persons to operate or maintain this unit.**
- **Parts of this WallSlide unit are rotating and moving during operation and may create a pinch point. Exercise care near rotating and moving parts during operation.**

GENERAL HAZARDS

- For safety reasons, CargoGlide recommends the installation and maintenance of this unit is carried out by an authorized WallSlide installer.
- Keep hands, feet, clothing, etc., away from drive components and rotating parts. Never attempt to grab a rotating part while the unit is operating.
- Do not alter the installation of the unit, as this could affect the operation of the unit.
- Inspect the WallSlide regularly and contact you nearest authorized WallSlide dealer for parts needing repair or replacement.
- Before performing any maintenance or repair, make sure to remove objects from the WallSlide unit and park on level ground. Make certain the latching mechanisms are in good order and functioning properly.
- Only qualified service personnel may install, operate and maintain this equipment. Failure to follow proper installation requirements could result in serious injury and damage to equipment or property.
- Only a trained electrical technician should perform wiring and connections to unit. Failure to follow proper installation requirements could result in serious injury and damage to equipment or property.
- Equipment and property damage. Do not alter construction of or installation of unit. Failure to do so could result in unsafe operation or damage to the system.

- Environmental Hazard. Always recycle batteries at an official recycling center in accordance with all local laws and regulations. Failure to do so could result in environmental damage or serious injury.
- Never use the WallSlide or any of its parts as a step. Stepping on the unit can cause stress and break parts, and may result in dangerous operating conditions.
- Never stand directly behind unit when operating the unit on inclines. Excess weight may cause the unit to travel quicker than expected.
- Inspect the WallSlide regularly and contact the nearest WallSlide dealer for parts needing repair or replacement.

ELECTRICAL HAZARDS

- Some units may be equipped with electrical systems, such as motor controllers and lighting options. These are operated at typical vehicle voltage levels (12VDC) and do not pose an electrocution hazard.
- Avoid contact with bare wires, terminals, connections, etc., while the unit is operating. Ensure all appropriate covers and guards are in place before operating the WallSlide.
- Be cautious when using metal tools around electrical connections during repair or maintenance. Contact with electrical connections may cause a short causing damage to equipment and personal items. CargoGlide recommends disconnecting source voltage or battery cables before making any repairs or performing service maintenance.
- CargoGlide recommends electrical systems are inspected as part of a routine maintenance service. Contact your nearest WallSlide dealer for electrical parts needing maintenance, repair or service.

EXPLOSION HAZARDS

- Electrical systems may be equipped with an auxiliary battery. Battery must be installed in a location clear of moving parts or being susceptible to damage or abuse. CargoGlide recommends battery installations are performed by an authorized WallSlide dealer.
- Noxious fumes and corrosive acid may be released from a damaged battery, causing serious health issues, possible explosions and possible damage to equipment and personal items. Damaged batteries should be removed and replaced as soon as possible.

Section 1- General Information

1.1 Unpacking and Inspection

After unpacking, carefully inspect the contents for damage. If any loss or damage is noted at time of delivery, have the person(s) making the delivery note all damage on the freight bill or affix his/her signature under the consignor's memo of loss or damage. If you note damage after delivery, separate the damaged materials and contact the carrier for claim procedures. "Concealed damage" is understood to mean damage to the contents of the package that is not in evidence at the time of delivery, but is discovered later.

1.2 Protection Systems

The WallSlide unit has built-in protection systems to help prevent, but not completely eliminate injury or equipment damage in the form of the following:

1. Multiple Latching Points
2. Safety Latch System

Motor controlled WallSlide systems have various safety features to help prevent, but not eliminate injury or equipment damage. The motorized WallSlide system is equipped with the following systems that protect it against potentially damaging conditions:

1. Overcurrent Sensing
2. Overtorque Sensing
3. Object Detection
4. Automatic Latching/De-latching
5. Safety Latch System
6. Travel Limit Switches

1.3 Available WallSlide Features

The WallSlide system has the following available features for ease of use, additional safety and convenience:

1. LED Lighting
2. Flashing LED light strobes
3. Individual wall weather canopy covers
4. Overhead ceiling weather canopy
5. Motorized wall systems with remote
6. Ladder racks: Folding and Static

1.4 Your WallSlide System

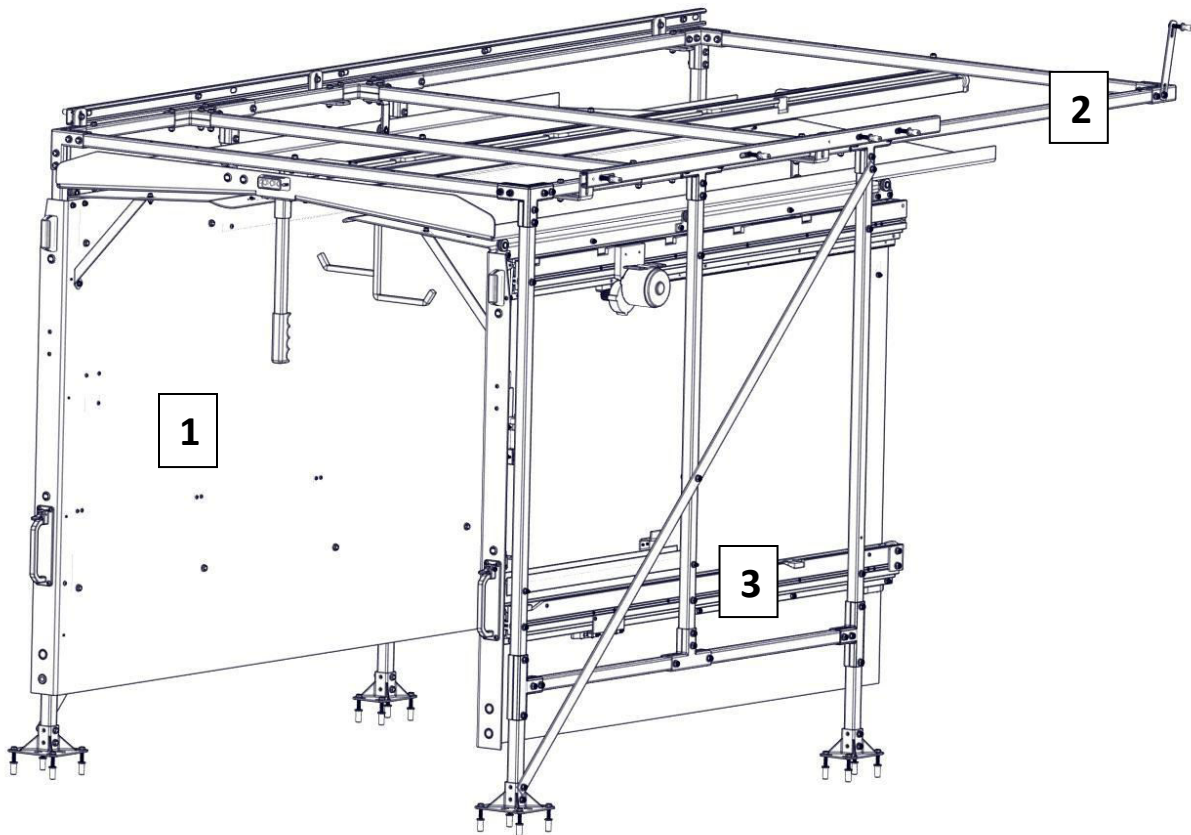


Figure 1- WallSlide System

Your WallSlide system is comprised of three (3) main components:

1. Sheetgood
2. Framework
3. Rolling Mechanism

CargoGlide are proud to offer a high quality product at the industries most competitive pricing!

1.4.1 WallSlide Sheetgood Assembly

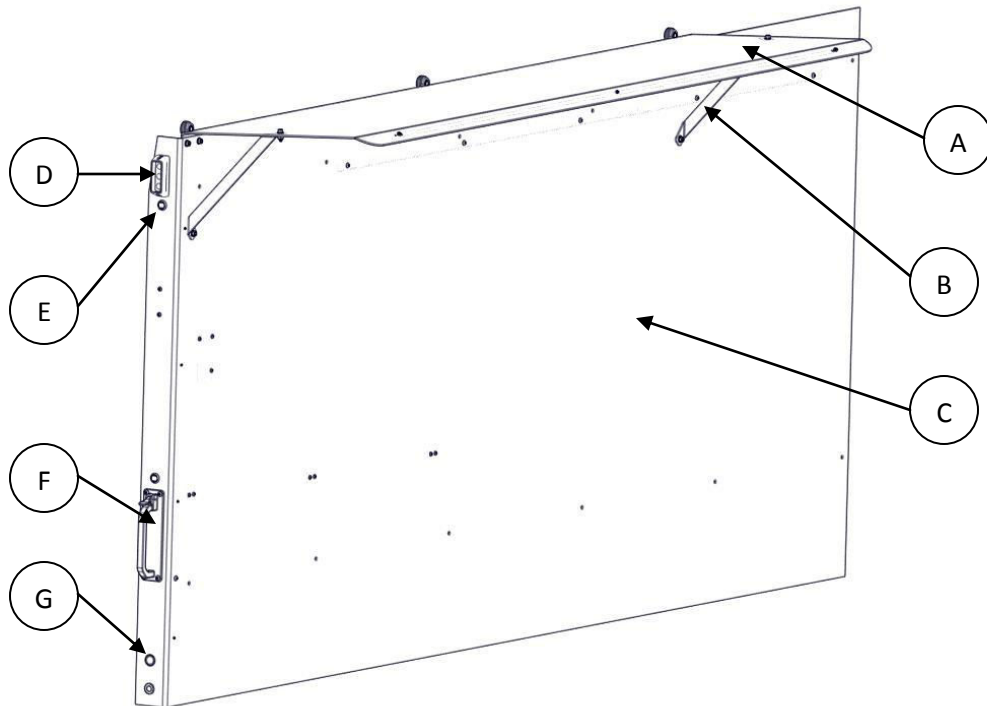


Figure 2- Sheetgood Components (Front View)

- A. Wall Canopy (Optional)
- B. Wall Canopy Bracket (Included w/Wall Canopy)
- C. Wall Panel
- D. LED Light Strobe (Optional)
- E. Light Switch (Optional)
- F. Manual Latch Handle
- G. Sonar Object Sensor (Optional)

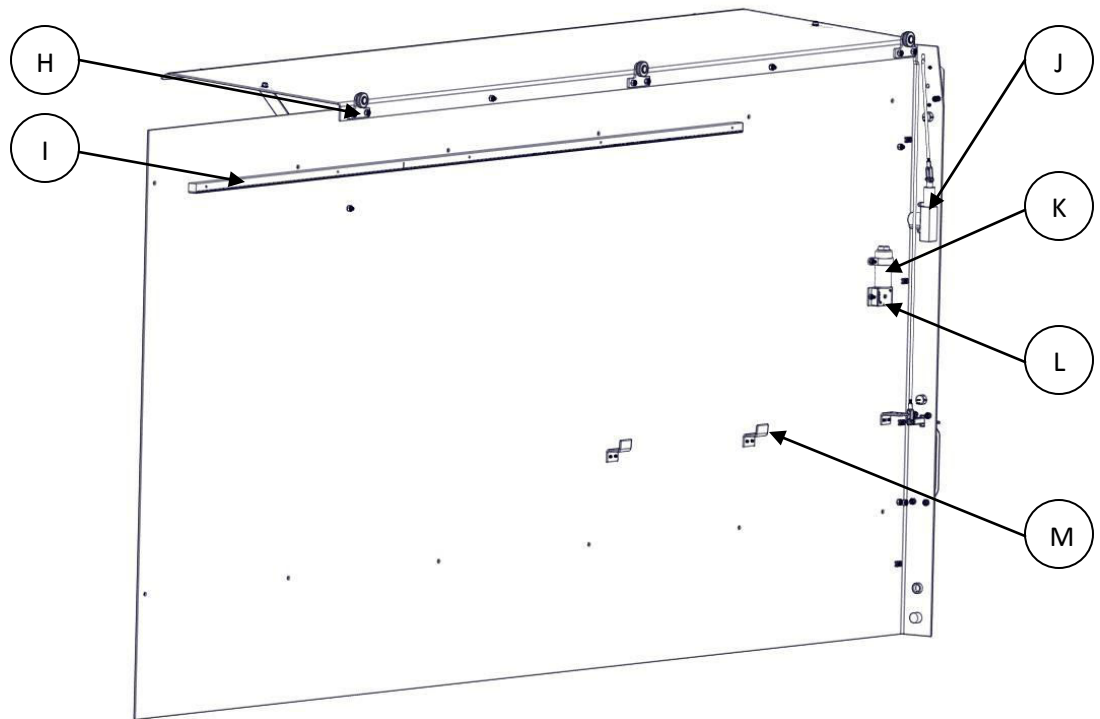


Figure 3- Sheetgood Components (Rear View)

- H. Canopy Guide Wheel (Optional w/ Ceiling Canopy)
- I. Gear Rack (Included w/Motorized System)
- J. Latch Actuator (Included w/Motorized System)
- K. Latch Actuator Capacitor (Included w/Motorized System)
- L. Sonar Module (Optional)
- M. Snake Track Support Brackets (Included w/Electrical and/or Motorized Systems)

1.4.2 WallSlide Framework

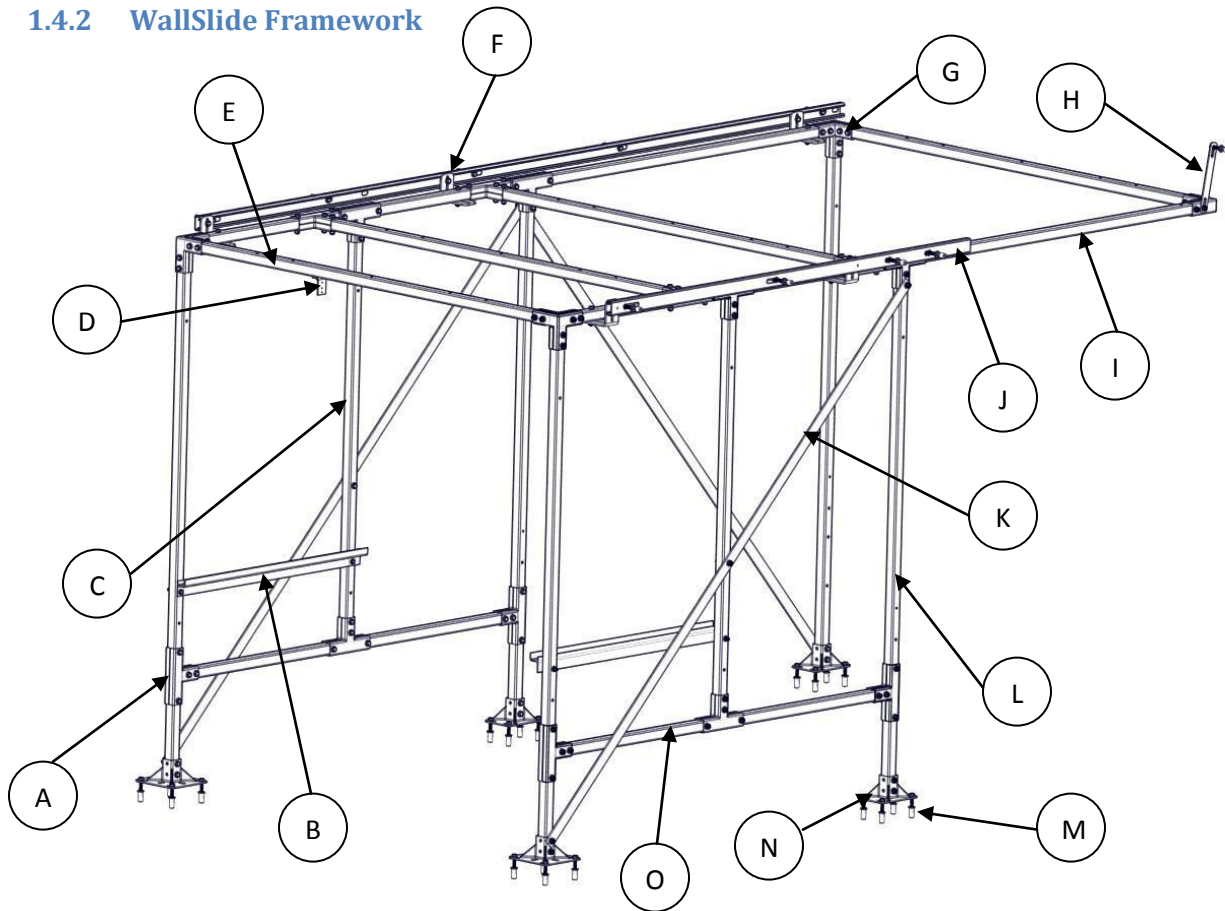


Figure 4- Framework Components

- | | | |
|--|-----------------------------------|-----------------------------------|
| A. Tee Clamshell | E. Cross Support Frame Tube | L. Main Upright Frame Tube |
| B. Snake Track Support
(Included w/Electrical
and/or Motorized
Systems) | F. L-Bracket | M. Plus Nuts |
| C. Mid Upright Frame
Tube | G. Corner Clamshell | N. Basefeet |
| D. Canopy Snake Track
Bracket (Optional
w/Ceiling Canopy) | H. Corner Support Bracket | O. Lower Horizontal
Frame Tube |
| | I. Upper Horizontal
Frame Tube | |
| | J. Unistrut | |
| | K. Stabilizer | |

1.4.3 WallSlide Rolling Mechanism

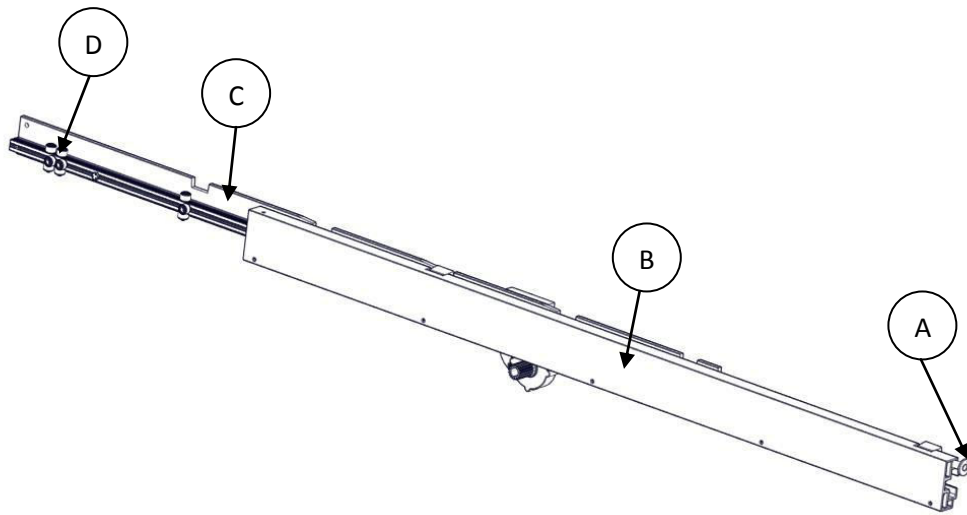


Figure 5-Rolling Mechanism Components (Front View)

- A. Latch Rod
- B. Sliding Rail
- C. Bearing Rail
- D. Bearings

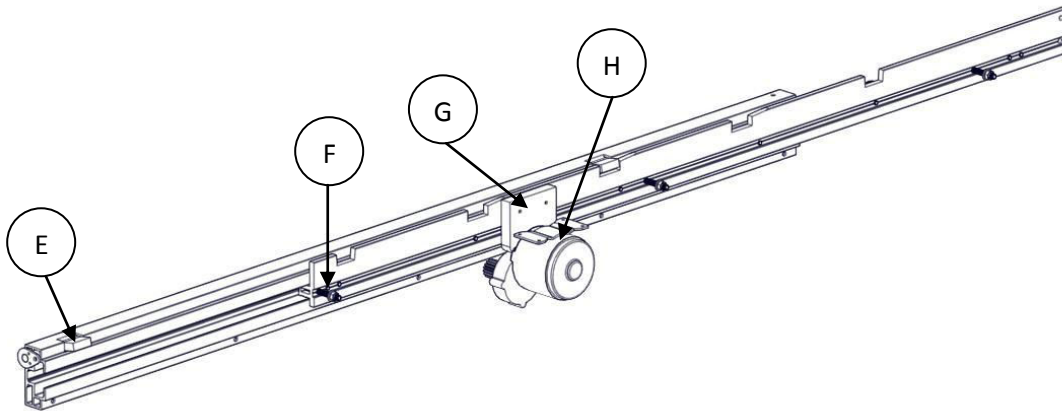


Figure 6 -Rolling Mechanism (Rear View)

- E. Latch Paddle
- F. Mounting Bolt
- G. Motor Mount (Included w/Motorized System)
- H. Motor (Included w/Motorized System)

1.5 Specifications

1.5.1 Wall Slide Specifications

Ford Transit	SKU# WSS501	SKU# WSS502	SKU# WSS503
Frame Size (L x W x H)	108.375" x 60" x 62.875"		
Sheetgood Size (L x W)	112.355" x 50"	67.355" x 50"	83.875" x 54.829"
Rail Length	110"	77"	110"
Wall Extension	77"	45.5"	77"

Mercedes Sprinter	SKU# WSS101	SKU# WSS102	SKU# WSS103
Frame Size (L x W x H)	108.375" x 59" x 61.375"		
Sheetgood Size (L x W)	112.355" x 50"	67.355" x 50"	83.875" x 54.829"
Rail Length	110"	77"	110"
Wall Extension	77"	45.5"	77"

1.5.2 Bolt Torque Specifications

Bolt Size and Type	Recommended Torque
5/16"-18 Hex Bolt	19 ft/lbs
5/16"-18 Button Head Cap Screw	15 ft/lbs
¼"-20 Hex Bolt	10 ft/lbs
¼"-20 Flat Head Cap Screw	7 ft/lbs
¼"-20 Button Head Cap Screw	7 ft/lbs
M6 X 1.0 Socket Head Cap Screw	6 ft/lbs

1.5.3 Lubrication Specifications

Location	Recommended Lubricant	Recommended Lubrication Interval
Gear Rack (A)	EP Synthetic Grease	Yearly
Pinion Gear (B)	EP Synthetic Grease	Every six (6) months
Latch Rod/Latch Paddle (C)	Dry Film Lubricant	Every three (3) months
Connecting Rod (D)	White Lithium Grease	Yearly
Thumb Latch (E)	Dry Film Lubricant	Every six (6) months
Canopy Guide Wheel (F)	White Lithium Grease	Every six (6) months
Sliding Rail Channel (G)	EP Synthetic Grease	Yearly
Bearings (H)	EP Synthetic Grease	Yearly
Lower Rail Edge (I)	EP Synthetic Grease	Every three (3) months
Canopy Latch (J)	EP Synthetic Grease	Every three (3) months

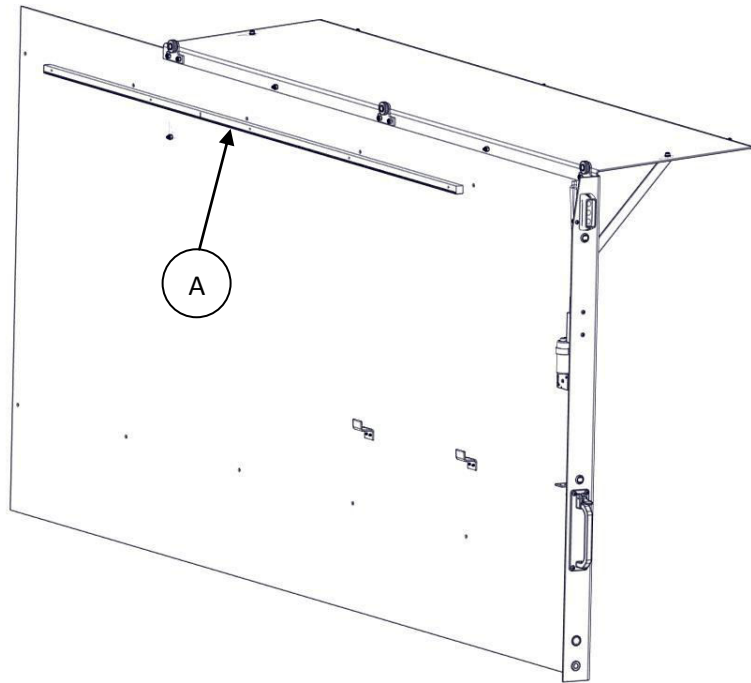


Figure 7- Gear Rack Lubrication

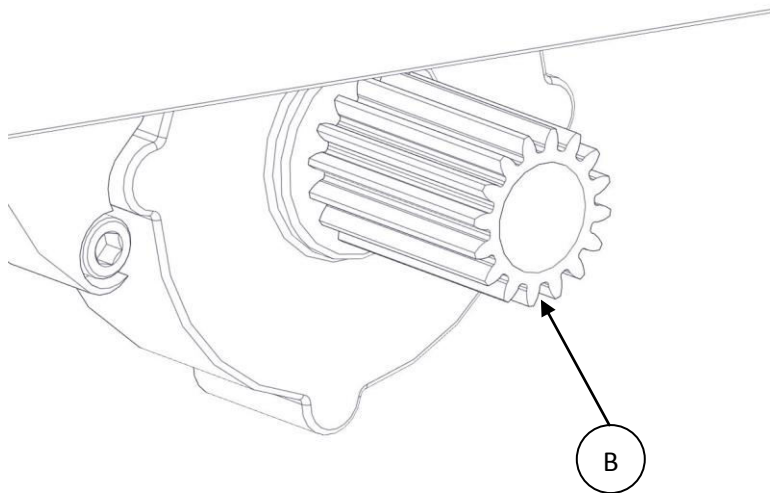


Figure 8- Pinion Gear Lubrication

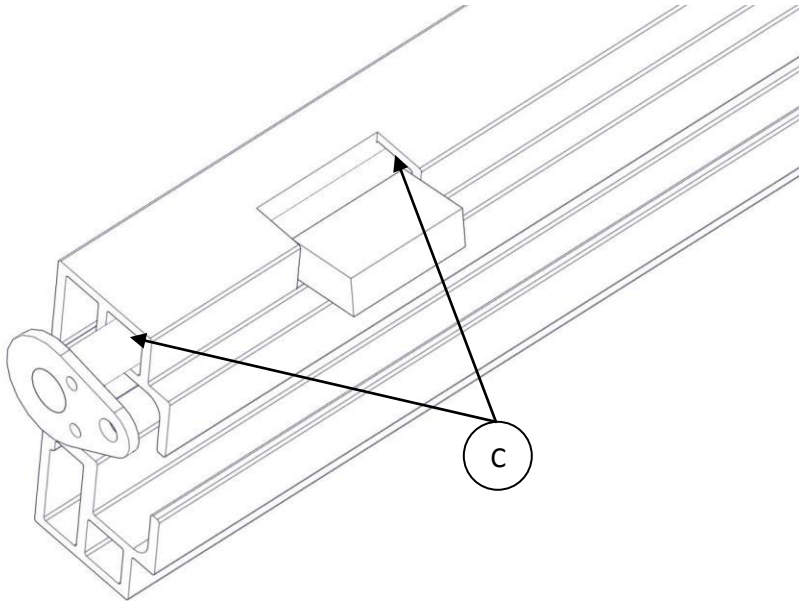


Figure 9- Latch Rod/Paddle Lubrication

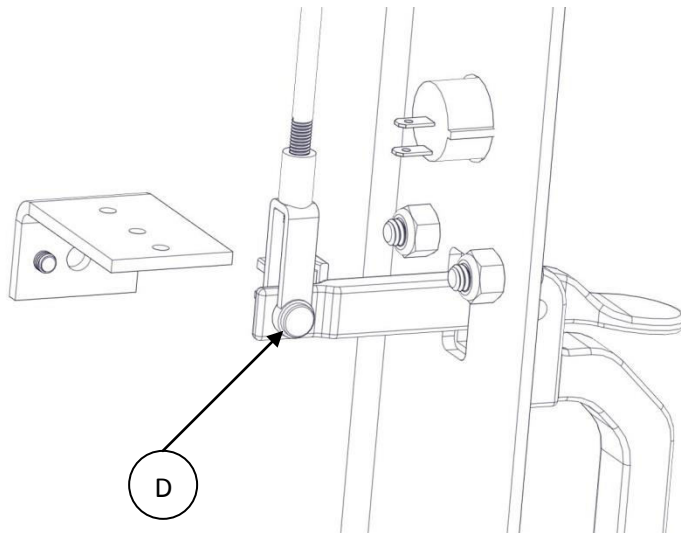


Figure 10- Connecting Rod Lubrication

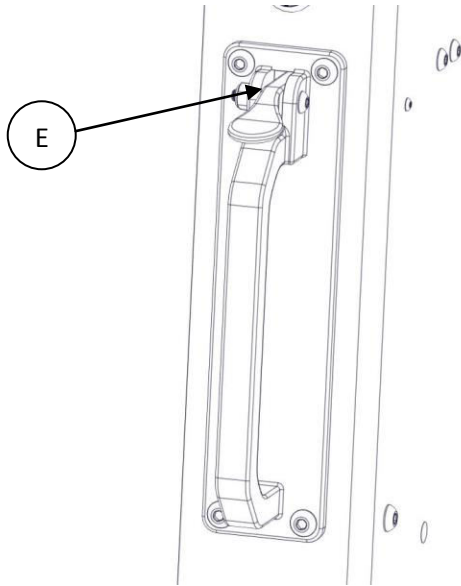


Figure 11- Thumb Latch Lubrication

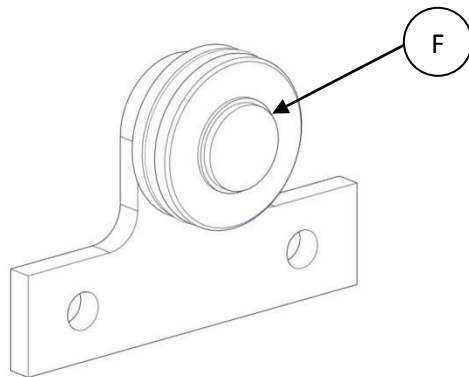


Figure 12- Canopy Guide Wheel Lubrication

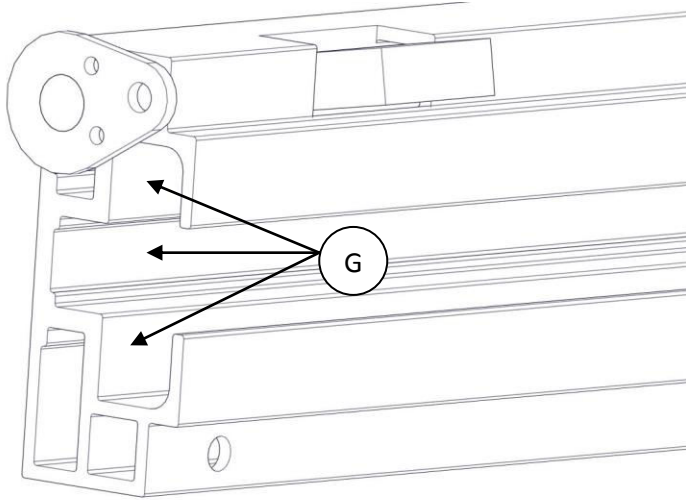


Figure 13- Sliding Rail Lubrication

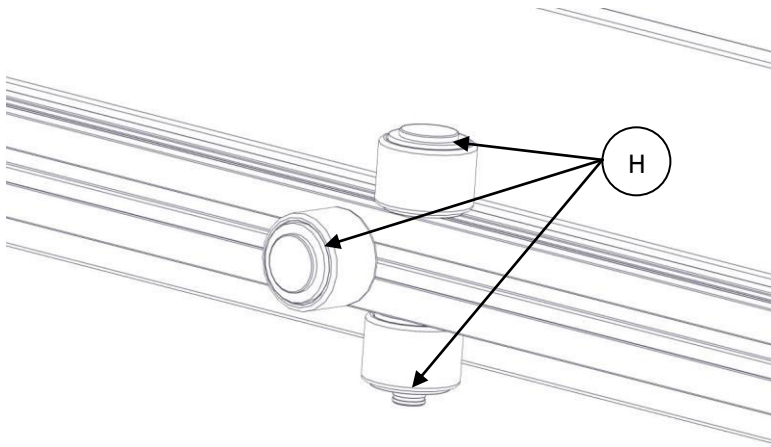


Figure 14- Bearings Lubrication

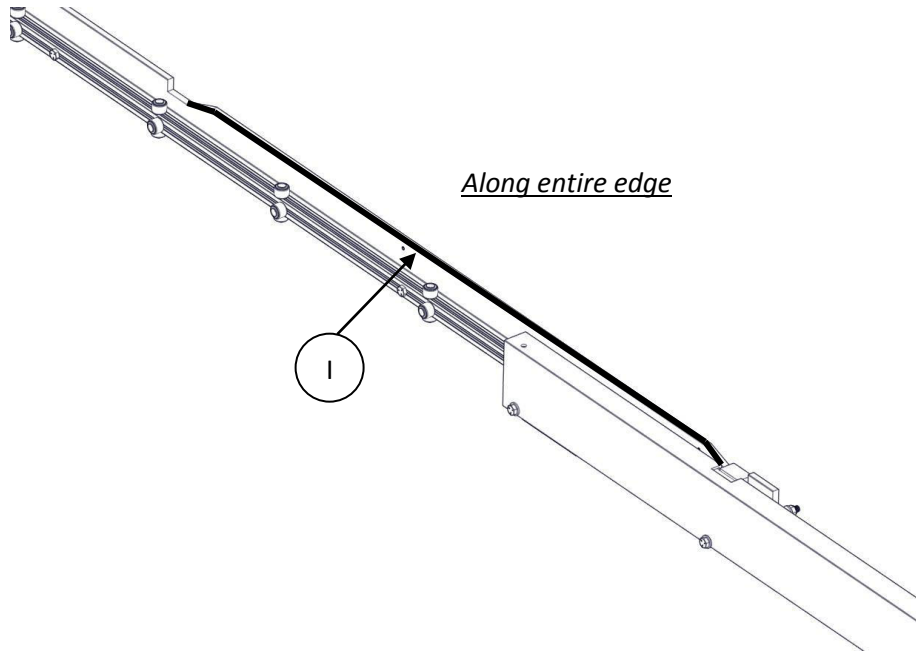


Figure 15- Lower Rail Lubrication

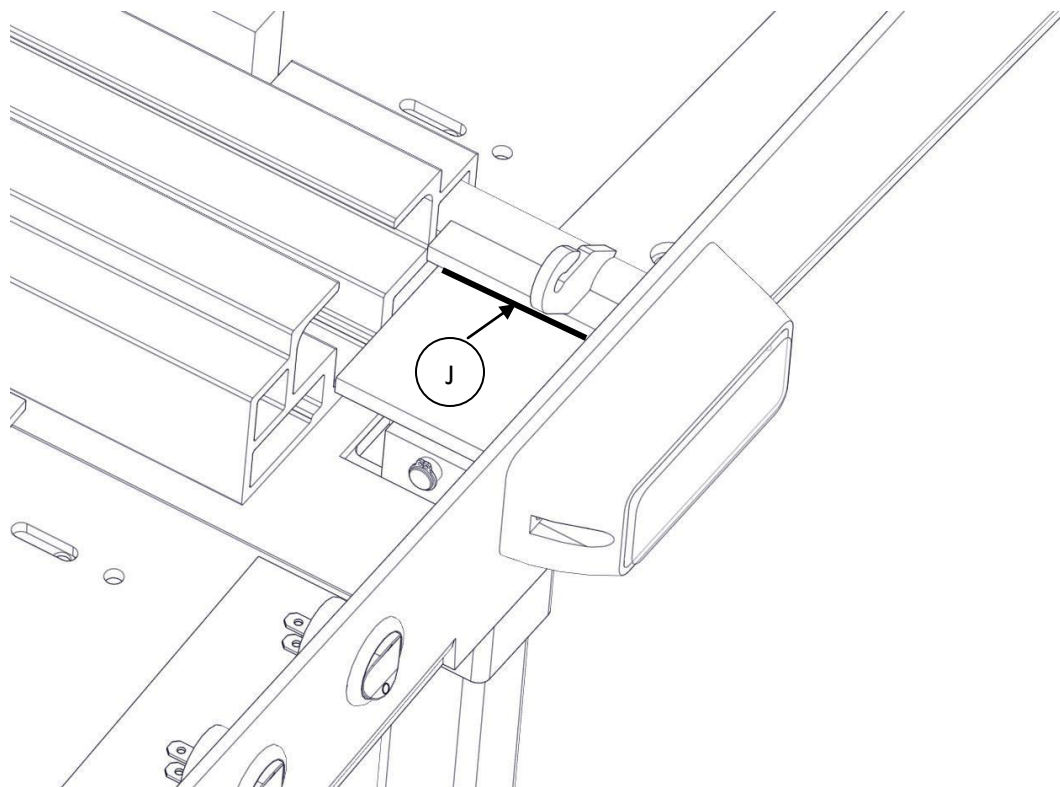


Figure 16- Canopy Latch Lubrication

Section 2- Post-Installation Start-up and Adjustment

Before loading and operation of the WallSlide system, some adjustments may be necessary to ensure smooth, continuous operation.

!!DANGER!!

All adjustments must be performed with the WallSlide **UNLOADED**. Please remove all excess item(s) from WallSlide before making any adjustments. Failure to do so will result in injury, damage to the unit and/or damage to personal property. CargoGlide recommends adjustments are performed by an authorized WallSlide installer. Contact your nearest WallSlide dealer if adjustments to your system are necessary.

2.1 Manual Wall Connecting Rod Adjustment

The Connecting Rod should be adjusted to provide the minimal amount of stroke necessary to open the Latch. The Connecting Rod can be adjusted by removing the Clevis Pin and rotating the Clevis Rod End clockwise to lengthen the stroke, or counterclockwise to shorten the stroke (Figure 17).

!!WARNING!!

Improper adjustment may result in the Latch Paddle to not close properly. The Latch Paddles are designed to hold the system in place during non-operation. Failure to latch may result in personal injury, equipment damage and damage to personal property.

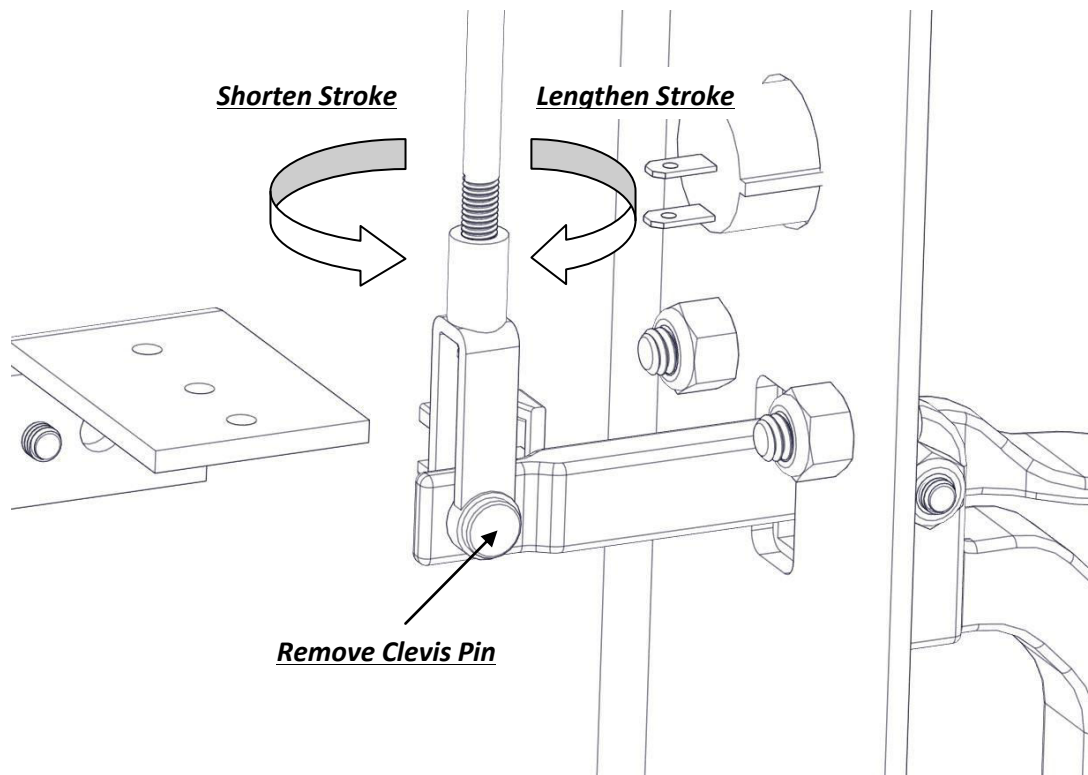


Figure 17- Clevis Rod Adjustment

Adjust the Clevis Rod End (Figure 17), so when the Thumb Latch is depressed (Figure 19), the Latch Paddle is approximately 1/8" (Approx. 45°) above the Bearing Rail (Figure 18). Operate the Thumb Latch and slide the unit in and out several times to ensure accurate adjustment.

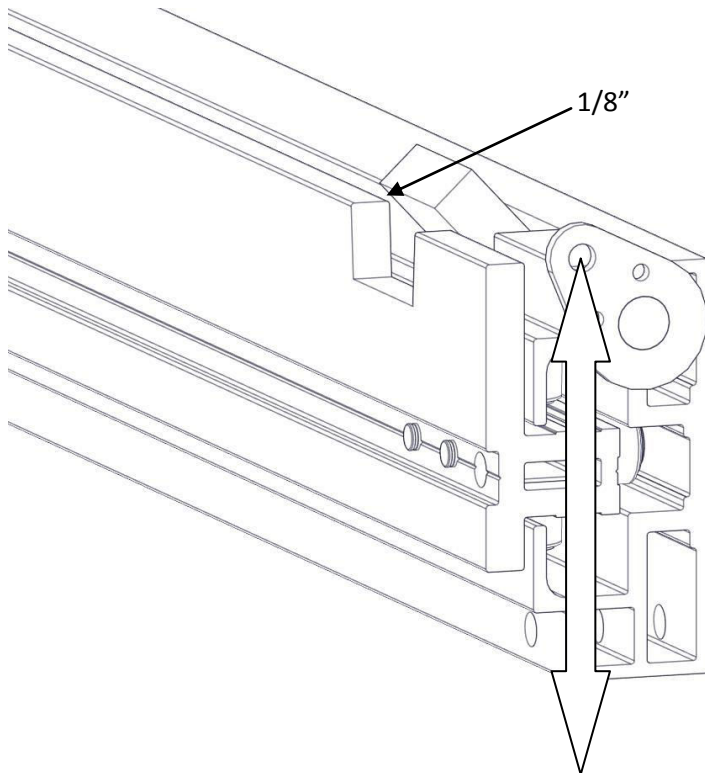


Figure 18- Latch Paddle Adjustment

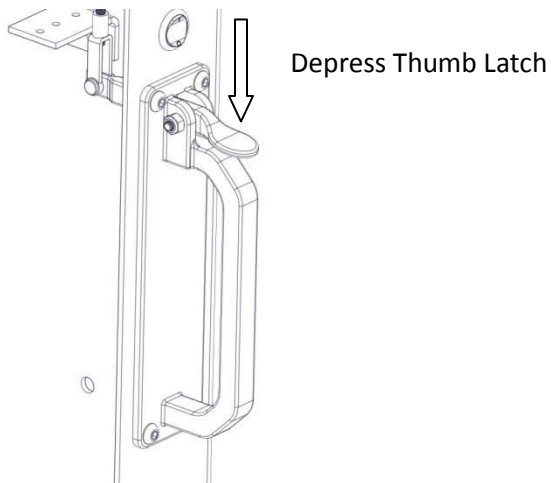


Figure 19- Thumb Latch Operation

2.2 Motorized Wall Connecting Rod Adjustment

The Connecting Rod should be adjusted to provide the minimal amount of stroke necessary to open the Latch. The Connecting Rod can be adjusted by removing the Clevis Pin and rotating the Clevis Rod End clockwise to lengthen the stroke, or counterclockwise to shorten the stroke (See Figure 19).

!!WARNING!!

Improper adjustment may result in the Latch Paddle to not close properly. The Latch Paddles are designed to hold the system in place during non-operation. Failure to latch may result in personal injury, equipment damage and damage to personal property.

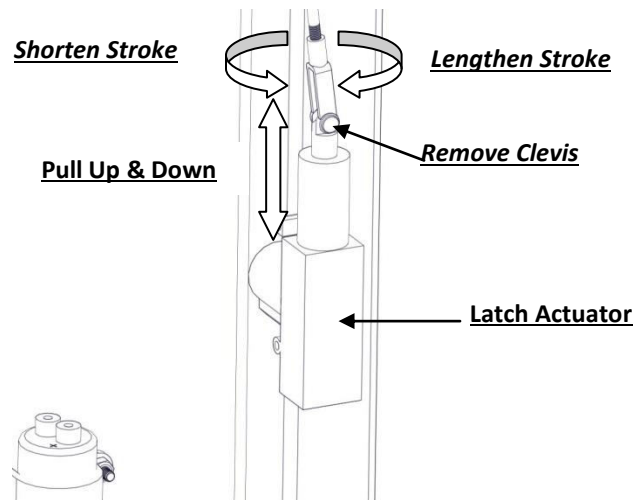


Figure 20- Actuator Clevis Rod Adjustment

Adjust the Clevis Rod End, so when you manually pull the end of Latch Actuator up (Figure 20), the Latch Paddle is in the fully "open" position and when you manually pull the end of the Latch Actuator closed, the Latch Paddle is in the fully "closed" position (Figure 21). Activate the remote and drive the wall in and out several times to ensure accurate adjustment.

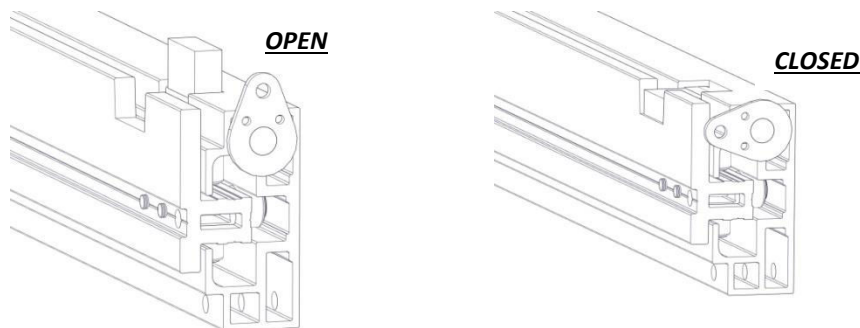


Figure 21- Latch Paddle Position

2.3 Safety Latch

The Safety Latch is designed to ride along the Lower Bearing Rail edge and stop at the end notches. The Safety Latch is used to provide a backup latch stop system in the case of a sudden disconnect or failure of the upper latching system in both the manual walls and motorized walls.

!!WARNING!!

The Safety Latch should **NEVER** be utilized as a stop during normal operations. Repeated hard contact on the Safety Latch may result in equipment failure and may cause personal injury, damage to the unit and/or damage to personal property.

!!DANGER!!

Disabling the Safety Latch during normal operation will result in personal injury, damage to the unit and/or damage to personal property. The Safety Latch should **ONLY BE DISABLED** during maintenance or repair with the wall **COMPLETELY UNLOADED** and the Vehicle on **LEVEL GROUND**.

The Safety Latch on each wall must be enabled before operating the WallSlide system. To enable the Safety Latch, connect one end of the included Extension Spring to the through-hole of the Cranklink located on the end of the Lower Latch Rod and the other end to the Spring Attachment Bolt located on the Wall Panel (Figure 22).

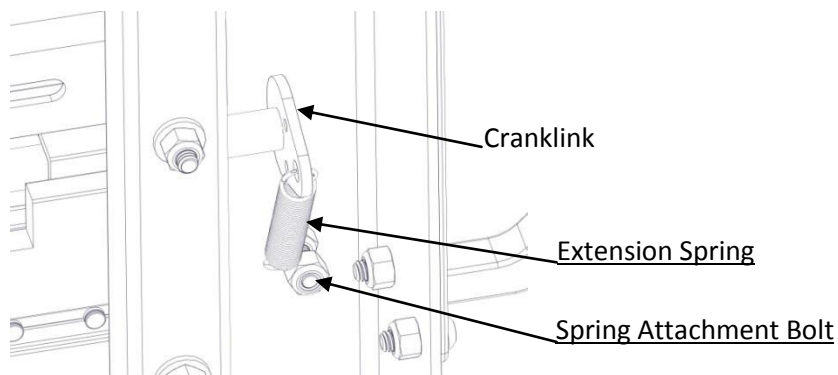


Figure 22- Safety Latch Spring Attachment

Tighten the first locknut onto the wall panel. **DO NOT** over tighten the second locknut onto the Extension Spring as this may break the loop on the end of the spring. Only tighten the second locking nut onto the Spring Attachment Bolt until the end of the nut is flush with the end of the bolt and the locknut is engaged (Figure 22). Leave a gap between locknuts to allow the Extension Spring to freely move.

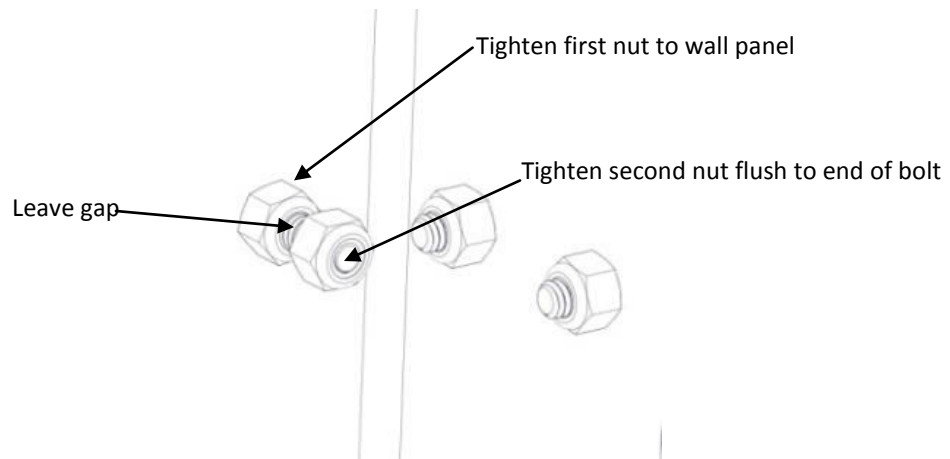


Figure 23- Double Locknut Attachment

Test the function of the Safety Latch by driving the wall in and out. The Safety Latch should ride along the edge of the Lower Bearing Rail and engage the notches at each end. Proper maintenance and lubrication will ensure the smooth operation of the Safety Latch (Figure 15).

2.4 Limit Switch Adjustment

The motorized wall systems will require the Limit Switch Striker Blocks to be adjusted to ensure proper operation and alignment of the Latch Paddles. CargoGlide recommends periodic checks and adjustment. Refer to maintenance schedule for recommended frequency and contact your nearest WallSlide dealer for adjustment assistance.

!!WARNING!!

Improper adjustment may result in the Latch Paddle to not close properly. The Latch Paddles are designed to hold the system in place during non-operation. Failure to latch may result in personal injury, equipment damage and damage to personal property.

!!WARNING!!

Limit Switch adjustment must be performed with the vehicle on **LEVEL GROUND**. Failure to do so may result in personal injury, equipment damage and damage to personal property.

2.4.1 Limit Switch Adjustment Procedure

Activate the remote to drive the unit completely outside of the vehicle and locate the Limit Switch Striker Blocks on the Lower Sliding Rail. The associated Limit Switches and bracket are attached to the Lower Bearing Rail (Figure 24). Adjust the Rear Striker Block to adjust the Latch Paddle for the unit in the fully closed position. Loosen the two 10-32 Button Head Screws on the rear Striker Block and slide the block until the screws are located in the approximate center of the slots and activating Limit Switches 1 and 2 (Figure 25). Tighten the screws. Activate the remote to drive the wall completely inside of the vehicle until the Latch Actuator engages the Latch Paddle. Visually inspect the Latch Paddle for proper alignment (Figure 26), centered in the associated notch and adjust as follows: Slide the rear Striker Block towards the middle of the Sliding Rail to adjust the Latch Paddle to the left. Slide the rear Striker Block towards the outside of the Sliding Rail to adjust the Latch Paddle to the right (Figure 26). Repeat adjustments for Front Striker Block to adjust the Latch Paddle for the unit in the fully open position. The Front Striker Block should activate Limit Switches 2 and 3 (Figure 27).

NOTE:

When making adjustments to the Striker Blocks, make small adjustments at a time and drive the wall completely in and out of the vehicle after each adjustment to ensure proper alignment. Additional adjustments to the Striker Blocks may be necessary depending on the amount of weight placed onto the wall. The distance the wall may drift after contacting the Limit Switches is directly related to the amount of weight placed on the wall. Regular inspections are necessary to maintain proper alignment.

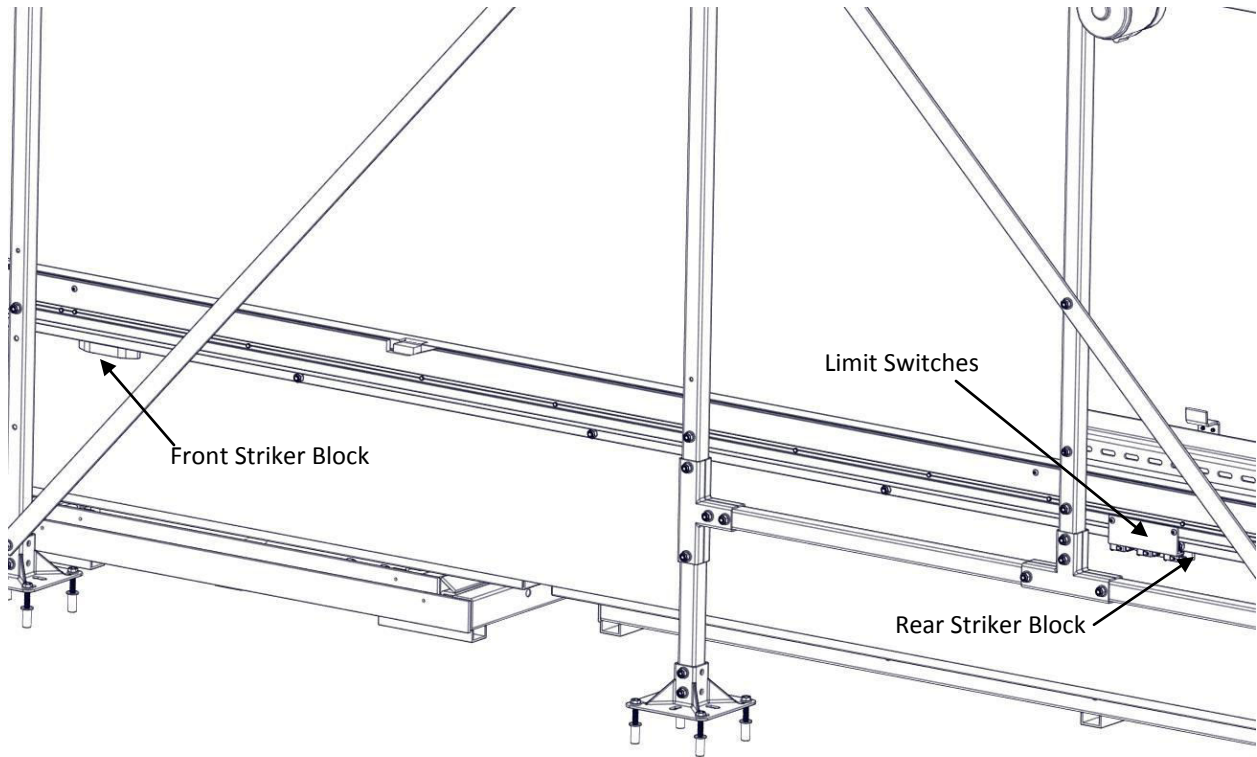


Figure 24- Limit Switch Striker Block Locations

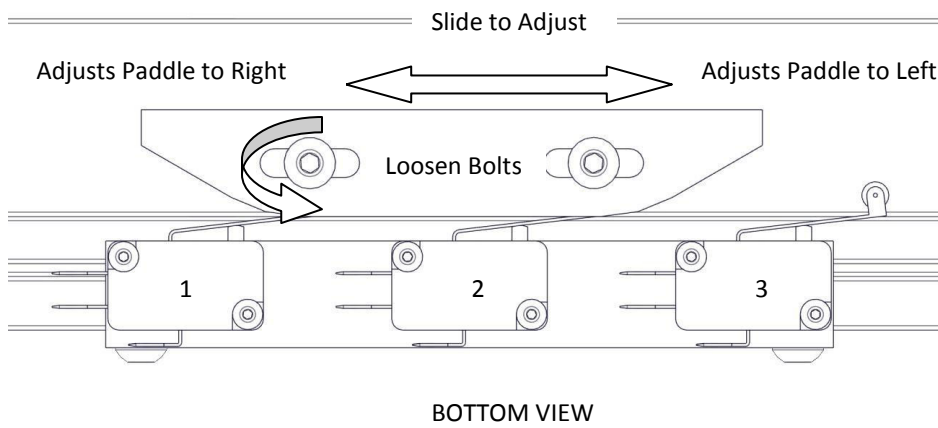


Figure 25- Rear Striker Block Adjustment

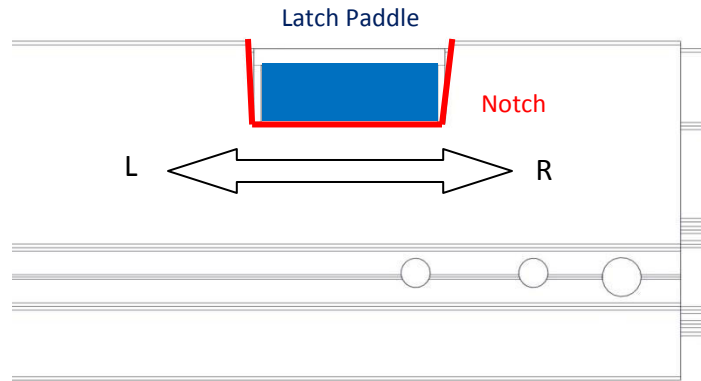


Figure 26- Proper Latch Paddle Alignment

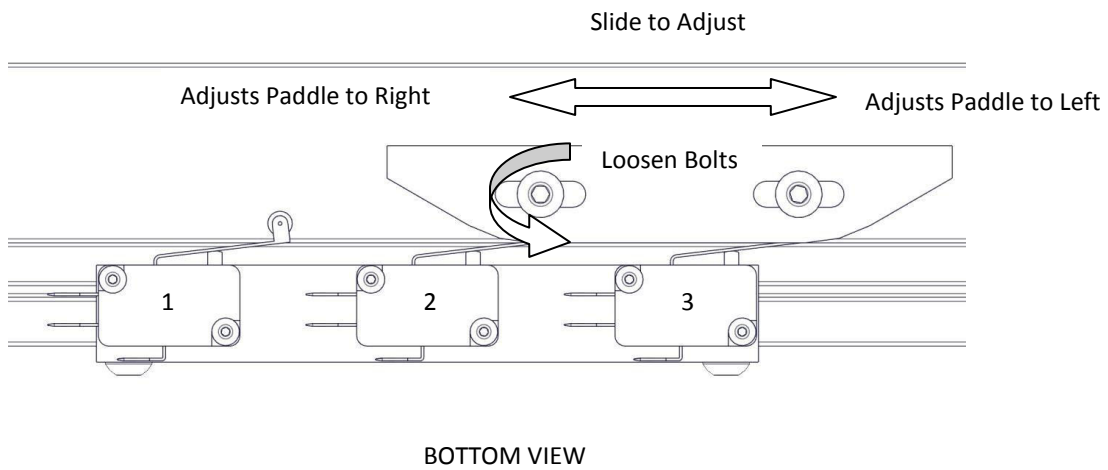


Figure 27- Front Striker Block Adjustment

Section 3- Exploded Views and Parts Lists

3.1 Framework Exploded View

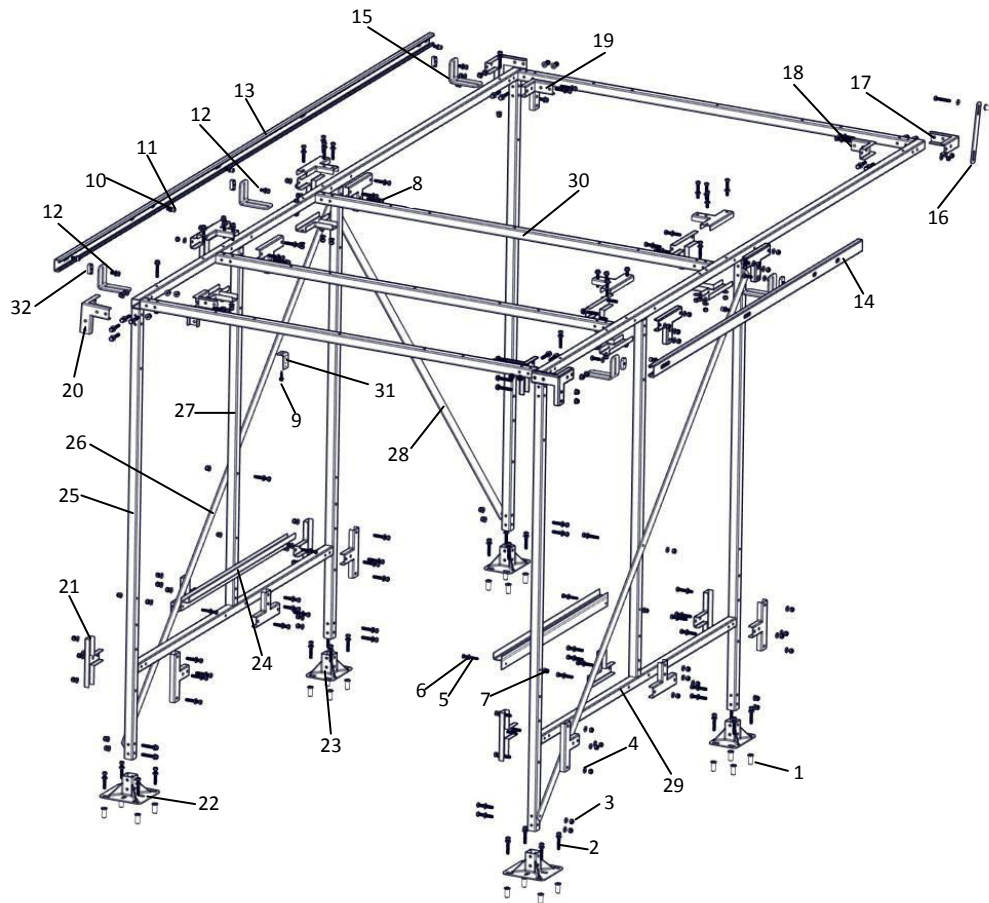


Figure 28- Frame Exploded View

Item	Part No.	Qty.	Description	Item	Part No.	Qty.	Description
1	180239	21	5/16"-18 Plus Nut	17	180150	1	2-Way Outside Corner Clamshell
2	130104	108	5/16"-18 X 2" Hex Bolt	18	180151	1	2-Way Inside Corner Clamshell
3	080103	100	5/16"-18 Locknut	19	180153	3	3-Way Inside Corner Clamshell
4	120107	218	5/16" Flat Washer	20	180152	3	3-Way Outside Corner Clamshell
5	180406*	4	3/4"-20 X 2" Hex Bolt*	21	180154	28	Tee Clamshell
6	180255*	4	3/4" Flat Washer*	22	180156	2	6 X 6 Base Plate
7	080101*	2	3/4"-20 Locknut*	23	180158	3	4 X 6 Base Plate
8	130105	1	5/16"-18 X 2.5" Hex Bolt	24	180319*	2	Snake Track Support*
9	180395*	1	3/4" X 1" Self Drilling Screw*	25	180101	5	Main Upright
10	180238	7	M8 X 1.25 X 20 Cap Screw	26	180110	2	Rear Stabilizer
11	180248	7	M8 Flat Washer	27	180103	2	Mid Upright
12	130101	7	5/16"-18 X 1" Hex Bolt	28	180111	1	Front Stabilizer
13	180137	1	Left Wall Unistrut	29	180102	2	Lower Horizontal
14	180138	1	Right Wall Unistrut	30	180104	4	Cross Support
15	180206	5	Unistrut Bracket	31	180216*	1	Snake Track End Support Bracket*
16	180212	1	Mounting Strap	32	180260	5	5/16"-18 Strut Nut

*Included with optional Electrical Kit

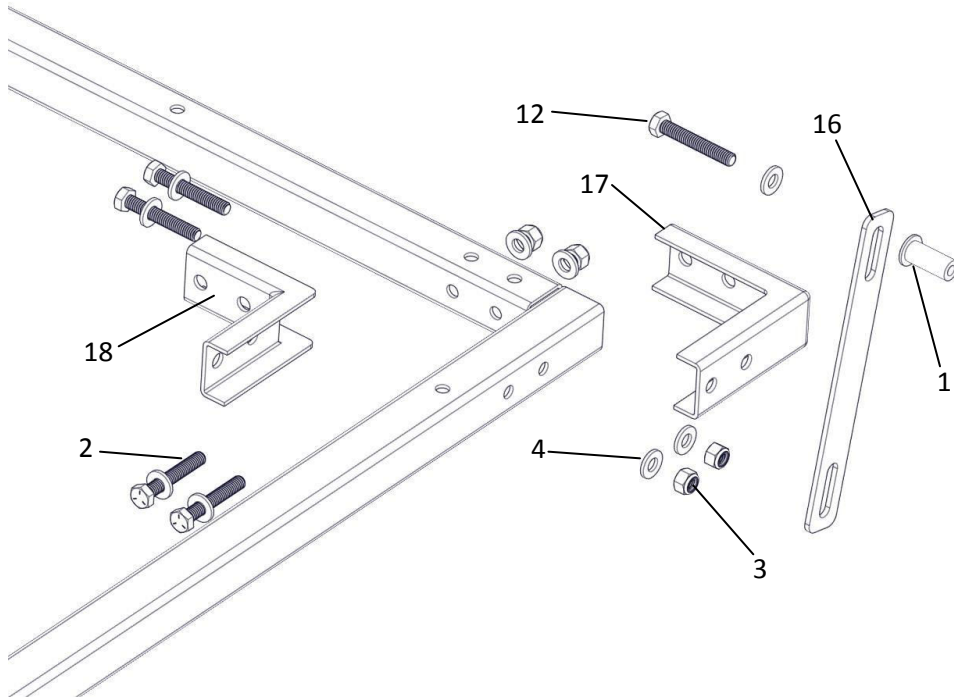


Figure 29- 2-Way Corner Assembly

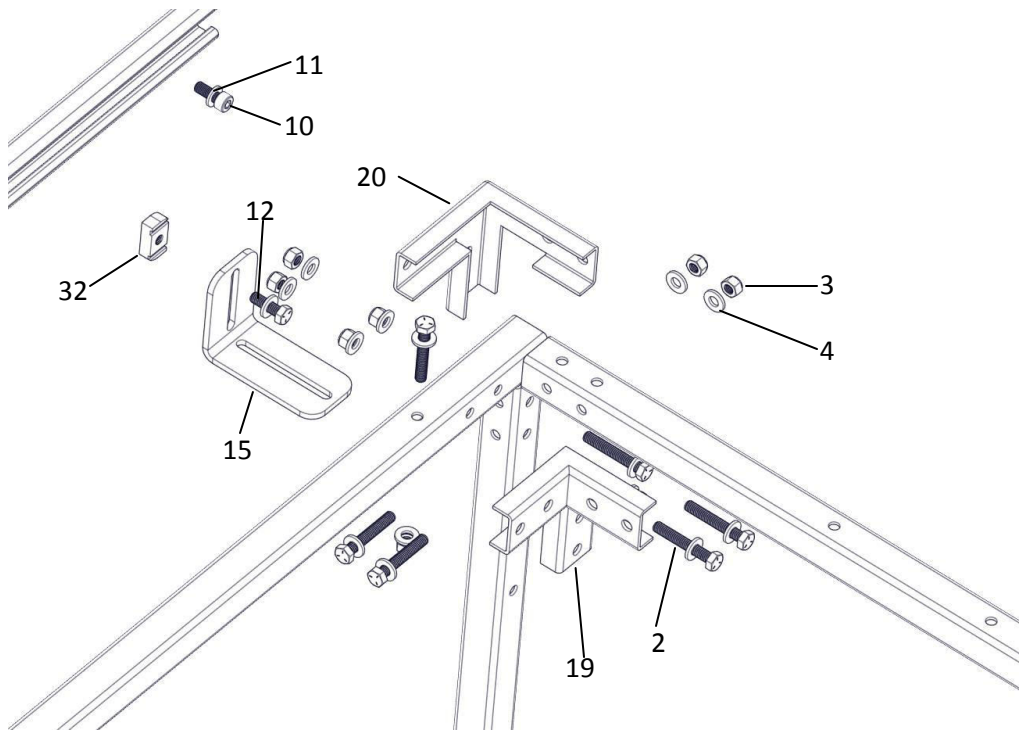


Figure 30- 3-Way Corner Assembly

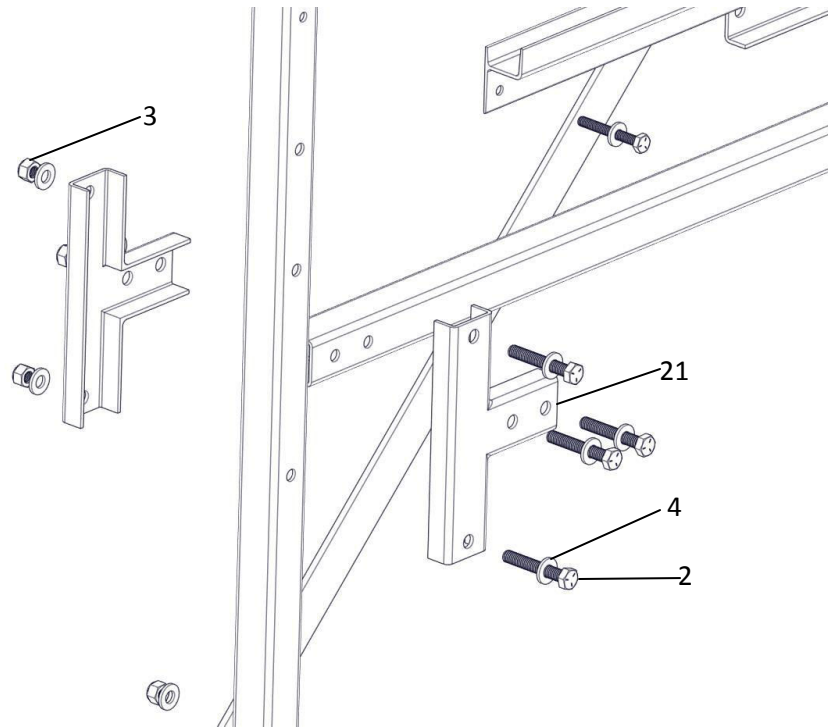


Figure 31- Tee Clamshell Assembly

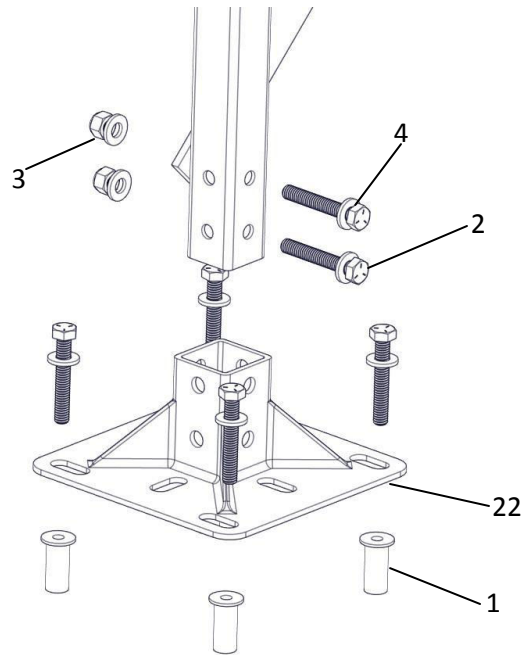


Figure 32- Basefoot Assembly

3.2 Rolling Mechanism Exploded View

3.2.1 Upper Bearing Rail Assembly

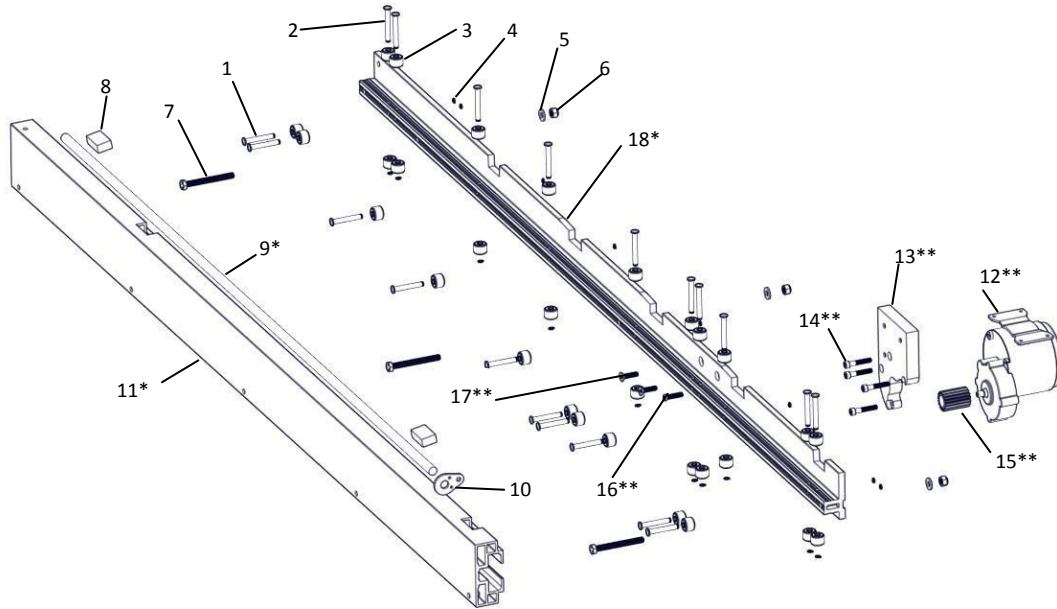


Figure 33- Right Upper Bearing Rail Assembly

Item	Part No.	Qty.	Description	Item	Part No.	Qty.	Description
1	180191	10***	Main Bearing Pin	10	180211	1	Cranklink
2	180192	10***	Thrust Bearing Pin	11	180168*	1	Right Sliding Rail*
3	080100	30***	CYR Bearing, 3/4"	12		1	Motor**
4		20***	1/4" External Retaining Ring	13	180179**	1	Motor Mount**
5	120107	3***	5/16" Flat Washer	14	180407**	4	M6 X 35mm Cap Screw**
6	080103	3***	5/16"-18 Locknut	15	180320**	1	Motor Pinion Gear
7	130106	3***	5/16"-18 X 3" Hex Bolt	16	180391**	1	1/4"-20 X 1" Low Head Cap Screw
8	180313	2	Latch Paddle	17	180236	2	1/4"-20 X 1" Flat Head Cap Screw
9	180312*	1	Right Latch Rod*	18	180167*	1	Right Upper Bearing Rail*

*Part number and description is associated with this referenced assembly only. Diagram represents typical assembly. Additional part numbers are as follows:

Part No.	Description
180200	Left Latch Rod
180166	Left Sliding Rail
180165	Left Upper Bearing Rail

**Included with optional Motorized Wall Kit

***Quantities are associated with this referenced assembly only. Diagram represents typical assembly.

3.2.2 Lower Bearing Rail Assembly

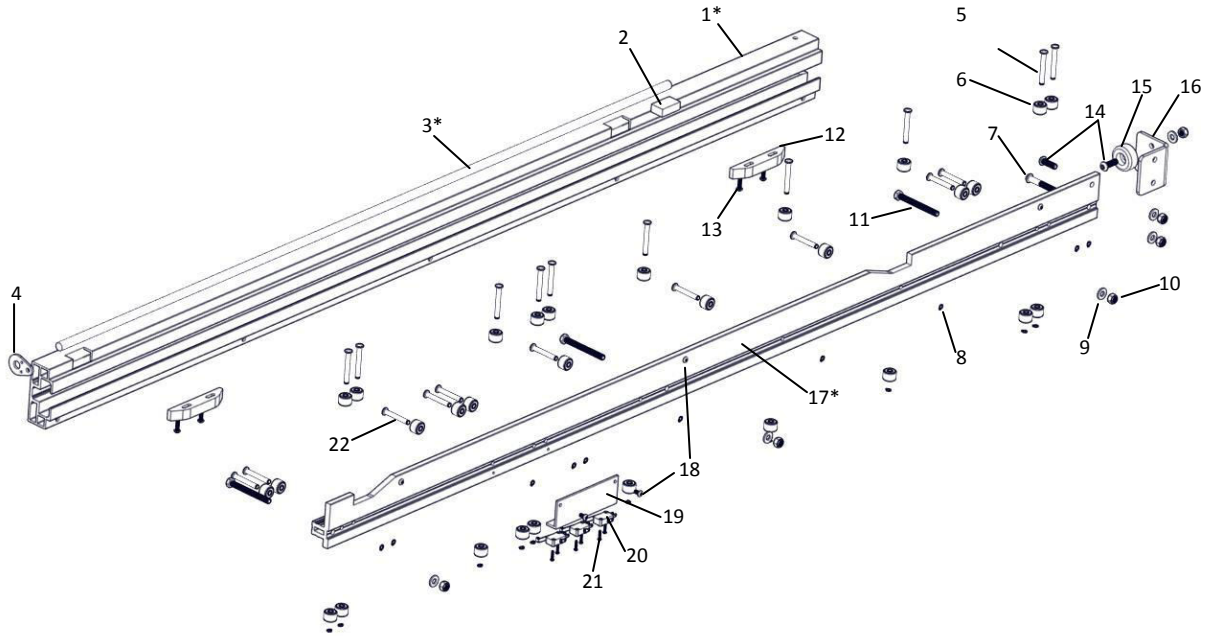


Figure 34- Right Lower Bearing Rail Assembly

Item	Part No.	Qty.	Description	Item	Part No.	Qty.	Description
1	180168*	1	Right Sliding Rail*	12	180219**	2	Limit Switch Striker Block**
2	180313	1	Latch Paddle	13		4	10-32 X 3/8" Button Head Cap Screw**
3	180312*	1	Right Latch Rod*	14	180259	2	5/16"-18 X 1" Button Head Cap Screw
4	180211	1	Cranklink	15		1	Rubber Bumper
5	180192	10***	Thrust Bearing Pin	16	180215	1	Stop Bracket
6	080100	30***	CYR Bearing, 3/4"	17	180182*	1	Right Lower Bearing Rail*
7	180258	1	5/16"-18 X 2" Button Head Cap Screw	18		5	10-32 X 3/8" Button Head Cap Screw**
8		20***	1/4" External Retaining Ring	19	180218**	1	Limit Switch Mount**
9	120107	6***	5/16" Flat Washer	20		3	Limit Switch**
10	080103	6***	5/16"-18 Locknut	21	180261**	6	4-40 X 9/16" Button Head Cap Screw**
11	103106	3***	5/16"-18 X 3" Hex Bolt	22	180191	10***	Main Bearing Pin

*Part number and description is associated with this referenced assembly only. Diagram represents typical assembly. Additional part numbers are as follows:

Part No.	Description
180200	Left Latch Rod
180166	Left Sliding Rail
180181	Left Lower Bearing Rail

**Included with optional Motorized Wall Kit

***Quantities are associated with this referenced assembly only. Diagram represents typical assembly.

3.3 Wall Panel Exploded View

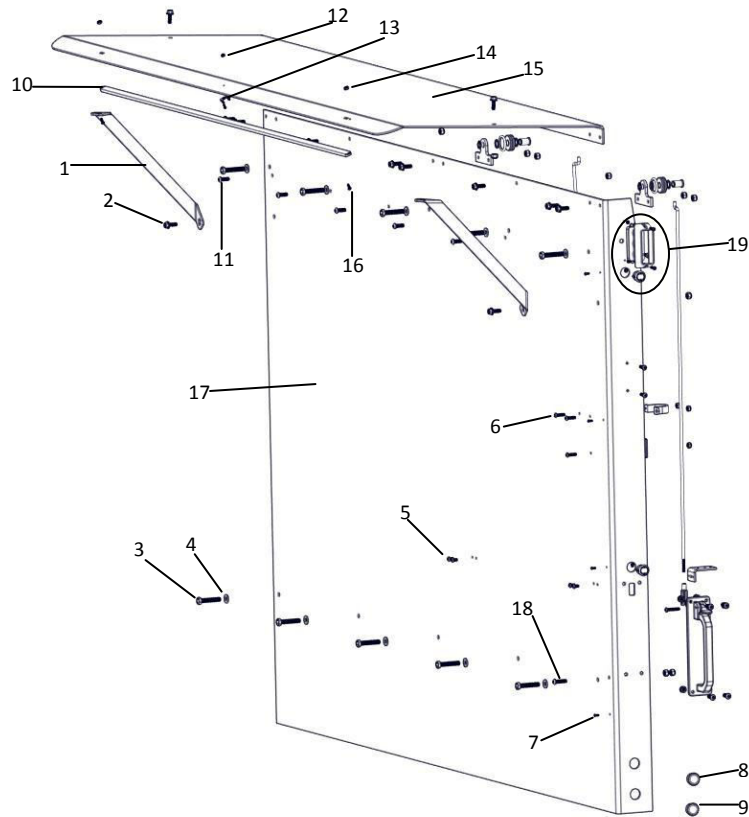


Figure 35- Right Wall Assembly, Front Side

Item	Part No.	Qty.	Description	Item	Part No.	Qty.	Description
1	180205	2	Canopy Bracket	20		1	Pull Handle Assembly (See Figure 38)
2	180256	12	¼"-20 X ¾" Flanged Bolt	21	180321	1	Handle Connecting Rod
3		10	5/16"-18 X 1-3/4" Hex Bolt	22	**	1	Actuator**
4	120107	10	5/16" Flat Washer	23	**	1	Actuator Connecting Rod**
5		4	10-32 X 3/8" Button Head Cap Screw	24	**	1	Capacitor Strap**
6		6	10-32 X ¾" Button Head Cap Screw	25	**	1	Capacitor**
7		5	4-40 X 5/16" Button Head Cap Screw	26	**	1	JSNSR04T Enclosure**
8		1	7/8" Hole Plug	27	180216**	1	Snake Track End Support Bracket**
9	**	1	Ultrasonic Sensor**	28	180314**	1	Snake Track Single Support**
10	**	1	LED Light Strip**	29	180174*	1	Right Wall Gear Rack*
11	180235	5	¼"-20 X ¾" Button Head Cap Screw	30	080103	10	5/16"-18 Locknut
12	**	5	4-40 Locknut**	31	**	4	Zip Tie Anchor**
13	**	1	LED Light Clip**	32	080101	18	¼"-20 Locknut
14	**	2	6-32 Locknut**	33		1	Clevis Pin
15	180185*	1	Right Wall Canopy*	34	***	3	Canopy Guide Wheel Assembly (See Figure 39)***
16	**	2	6-32 X 3/8" Button Head Cap Screw**	35	180229	5	10-32 Locknut
17	180178*	1	Right Wall Panel*	36		2	Rod Clevis
18		1	1/4"-20 X 1" Button Head Cap Screw	37	**	2	Light Switch**
19	**	1	LED Strobe Assembly (See Figure 37)**				

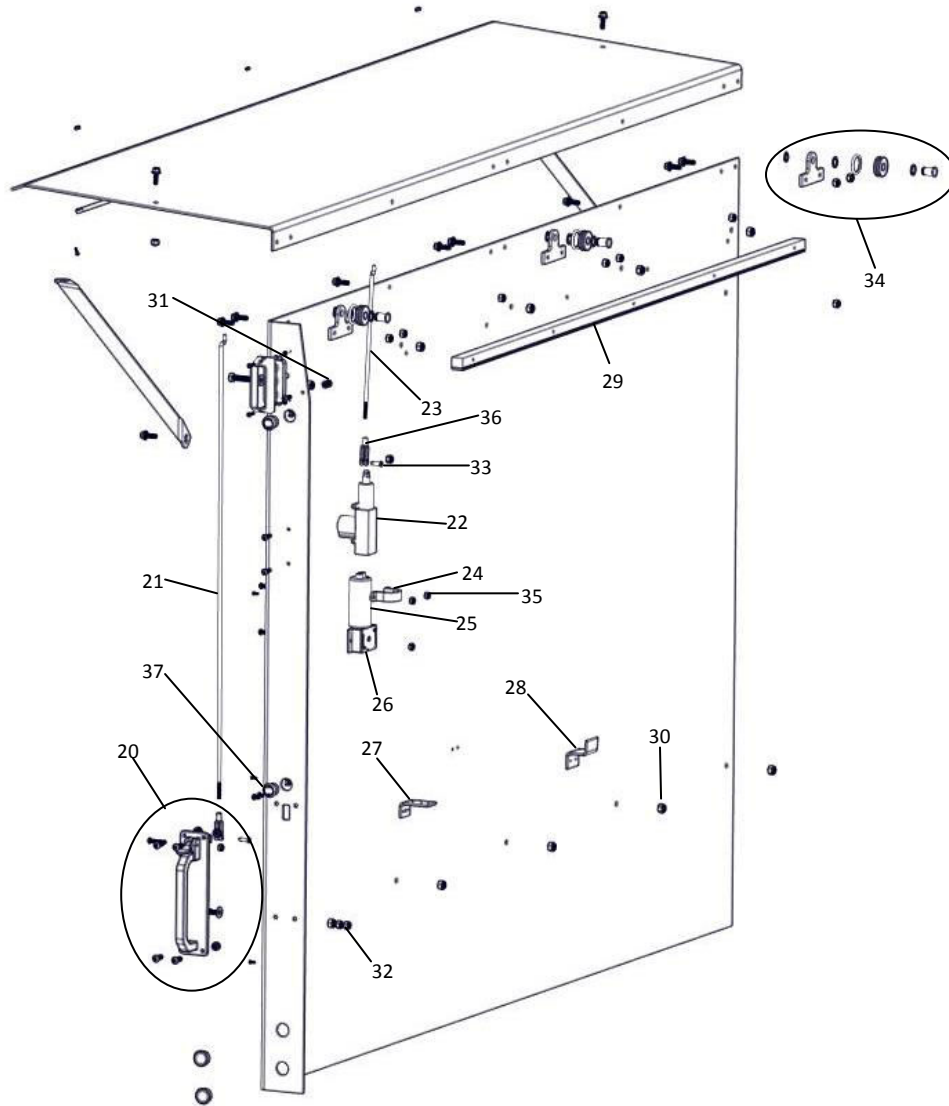


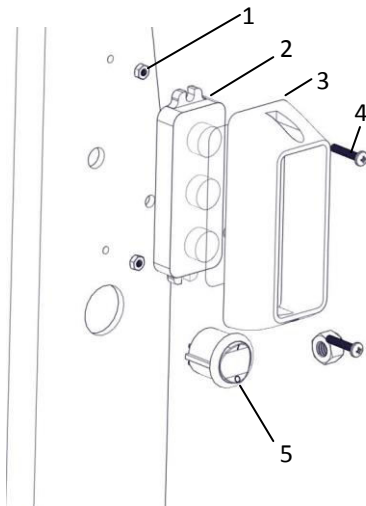
Figure 36- Right Wall Assembly, Rear Side

*Part number and description is associated with this referenced assembly only. Diagram represents typical assembly. Additional part numbers are as follows:

Part No.	Description
180175	Left Wall Gear Rack
180177	Left Wall Panel
180286	Left Wall Canopy

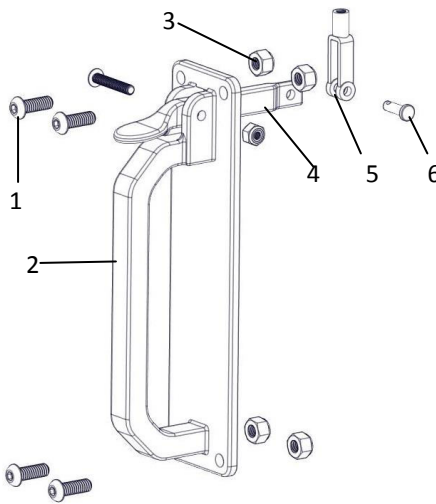
**Included with optional Motorized Wall Kit and/or optional Electrical Kit

***Included with optional Ceiling Canopy Kit



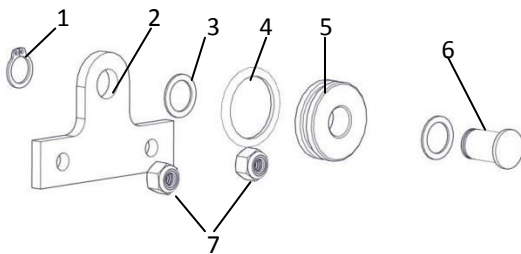
Item	Part No.	Qty.	Description
1		2	M3 Hex Nut
2		1	LED lens
3		1	LED Cover
4		2	M3 X 16mm Screw
5		1	Light Switch

Figure 37- LED Strobe Assembly



Item	Part No.	Qty.	Description
1	180235	4	1/4"-20 X 3/4" Button Head Cap Screw
2	180317	1	Latch Handle
3	080101	4	1/4"-20 Locknut
4	180318	1	Thumb Latch
5		1	Rod Clevis
6		1	Clevis Pin

Figure 38- Pull Handle Assembly



Item	Qty.	Part No.	Description
1	1	080116	12mm External Retaining Ring
2	1	180507	Bearing Bracket
3	2		Nylon Washer
4	1		O-Ring
5	1	180508	Guide Bearing
6	1	030280	12mm Bearing Pin
7	2	080101	1/4"-20 Locknut

Figure 39- Canopy Guide Wheel Assembly

3.4 Ceiling Canopy Exploded View

3.4.1 Ceiling Canopy

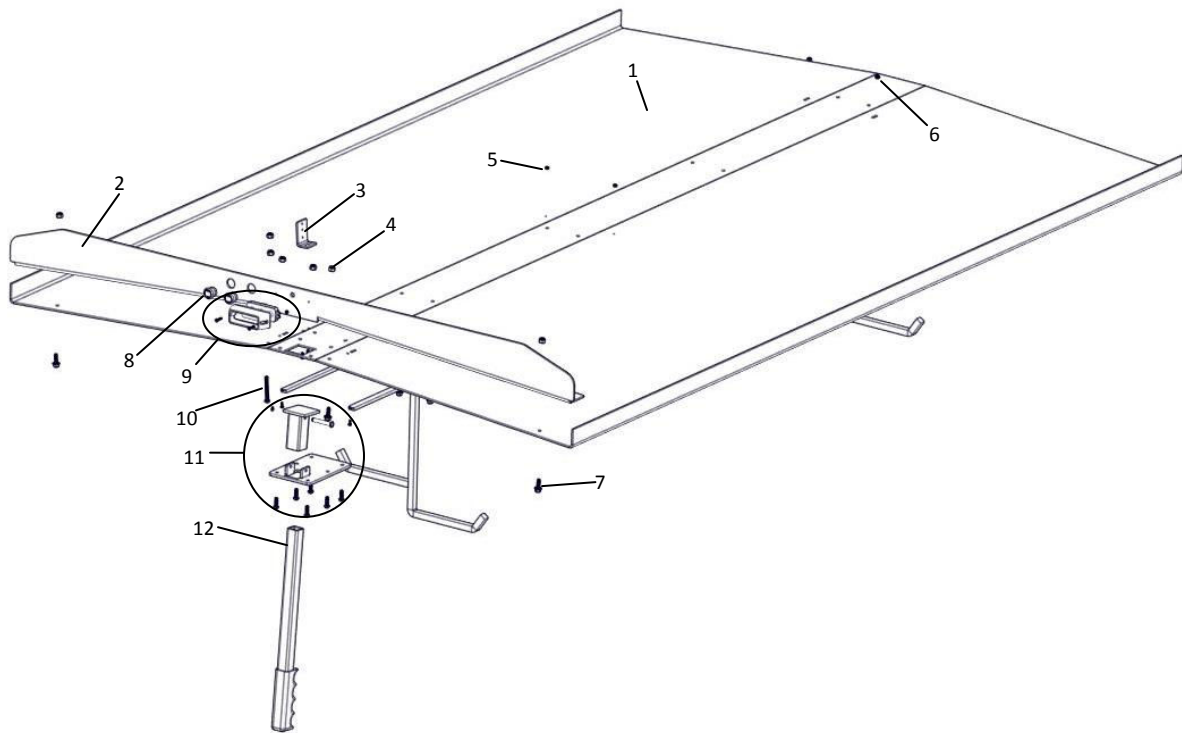


Figure 40- Ceiling Canopy Assembly Top View

Item	Part No.	Qty.	Description	Item	Part No.	Qty.	Description
1	180187	1	Center Canopy	10		1	¼"-20 X 2" Button Head Cap Screw
2	180186	1	Canopy Front End	11		1	Canopy Latch Handle Assembly (See Figure 42)
3	180216*	1	Snake Track End Support Bracket*	12	180142	1	Canopy Handle
4	080101	7	¼"-20 Locknut	13	*		4-40 X 5/16" Button Head Cap Screw*
5	*	2	4-40 Locknut*	14	180204**	2	Ladder Rack**
6	*	4	6-32 Locknut*	15	*	4	6-32 X 3/8" Button Head Cap Screw*
7	180256	11	¼"-20 X ¾" Flanged Bolt	16	*	2	LED Light Strip*
8	*	2	Light Switch*	17	*	2	Light Clip*
9	*	1	LED Strobe Assembly (See Figure 37)*				

*Included with optional Electrical Kit

**Optional accessory. Folding Ladder Rack Optional also available (P/N 180481).

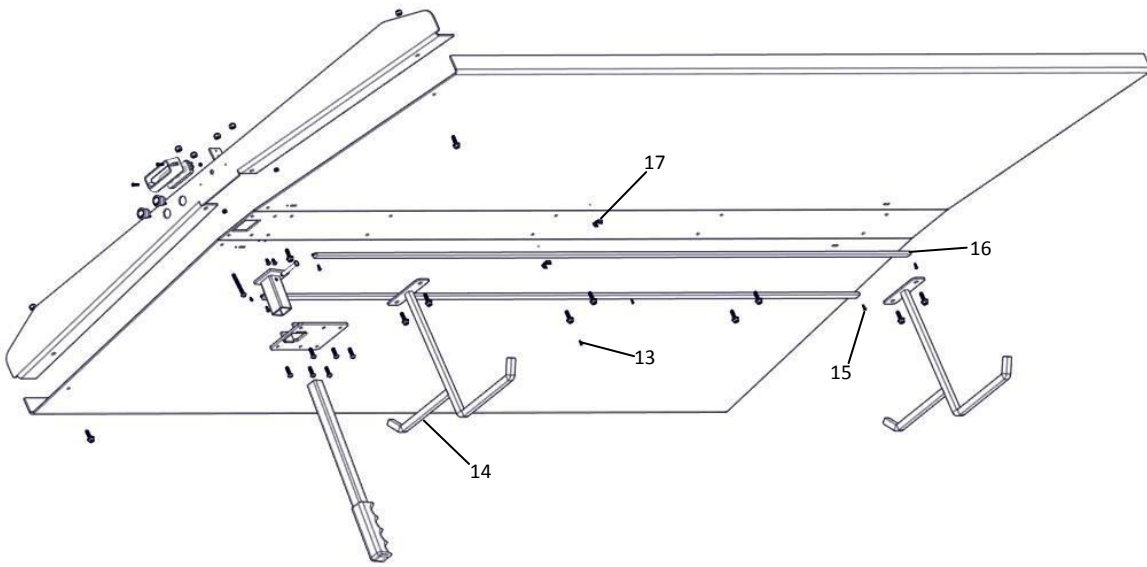


Figure 41- Ceiling Canopy Assembly Bottom View

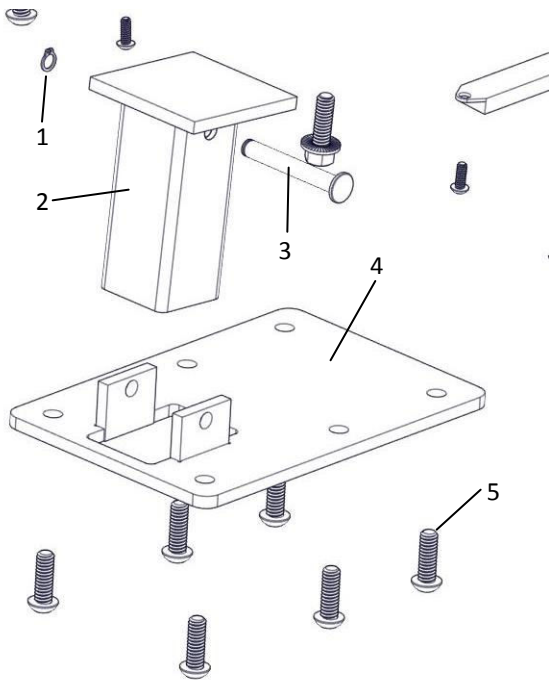


Figure 42- Canopy Latch Handle Assembly

Item	Part No.	Qty.	Description
1		1	3/4" External Retaining Ring
2	180485	1	Handle Adapter Tube
3	180191	1	Main Bearing Pin
4	180143	1	Canopy Latch Base
5	180235	6	3/4"-20 X 3/4" Button Head Cap Screw

3.4.2 Ceiling Canopy Bearing Rail

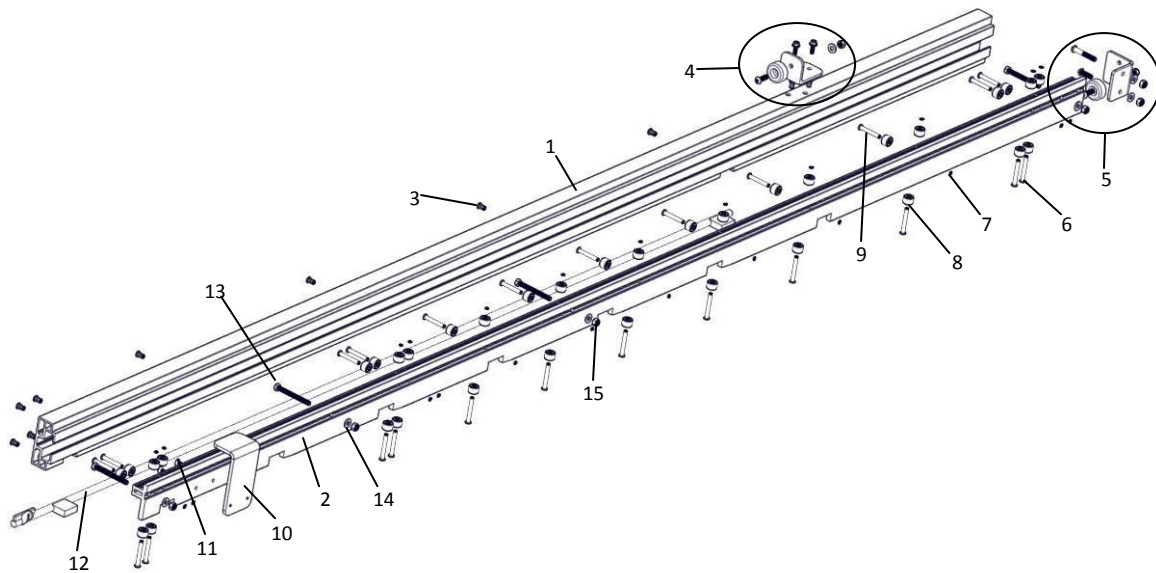
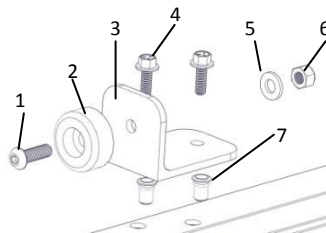


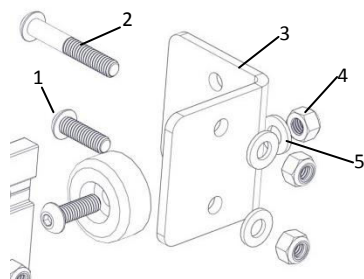
Figure 43- Canopy Bearing Rail Assembly

Item	Part No.	Qty.	Description	Item	Part No.	Qty.	Description
1	180183	1	Canopy Sliding Rail	9	180191	12	Main Bearing Pin
2	180180	1	Canopy Bearing Rail	10	180202	1	Bumper Stop
3	180233	14	¼"-20 Rivet Nut	11		2	¼"-20 X ¾" Flat Head Cap Screw
4		1	Bumper Mount Assembly (See Figure 44)	12	180520	1	Canopy Latch Rod
5		1	Stop Bracket Assembly (See Figure 45)	13	130106	4	5/16"-18 X 3" Hex Bolt
6	180192	12	Thrust Bearing Pin	14	120107	4	5/16" Flat Washer
7		24	¼" External Retaining Ring	15	080103	4	5/16"-18 Locknut
8	080100	36	CYR Bearing, ¼"				



Item	Part No.	Qty.	Description
1	180259	1	5/16"-18 X 1" Button Head Cap Screw
2		1	Rubber Bumper
3	180203		Canopy Bumper Mount
4		2	¼"-20 X ¾" Flanged Bolt
5	120107	1	5/16" Flat Washer
6	080103	1	5/16"-18 Locknut
7	180233	2	¼"-20 Rivet Nut

Figure 44- Canopy Bumper Mount Assembly



Item	Part No.	Qty.	Description
1	180259	2	5/16"-18 X 1" Button Head Cap Screw
2	180258	1	5/16"-18 X 2" Button Head Cap Screw
3	180215	1	Stop Bracket
4	080103	3	5/16"-18 Locknut
5	120107	3	5/16" Flat Washer

Figure 45- Stop Bracket Assembly

Section 4- Electrical Diagrams

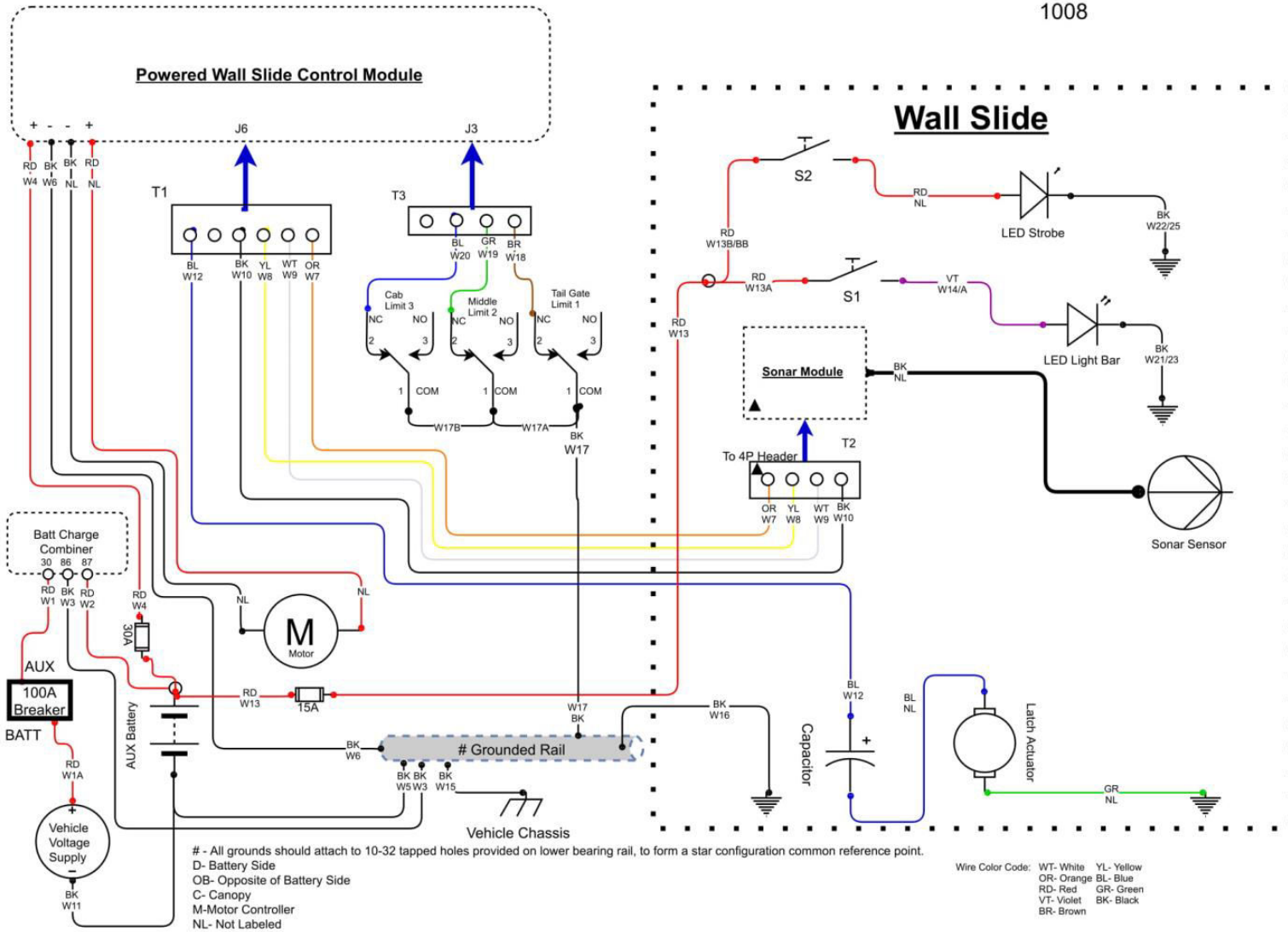
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Wall Slide Wiring Diagram.html



Master Diagram

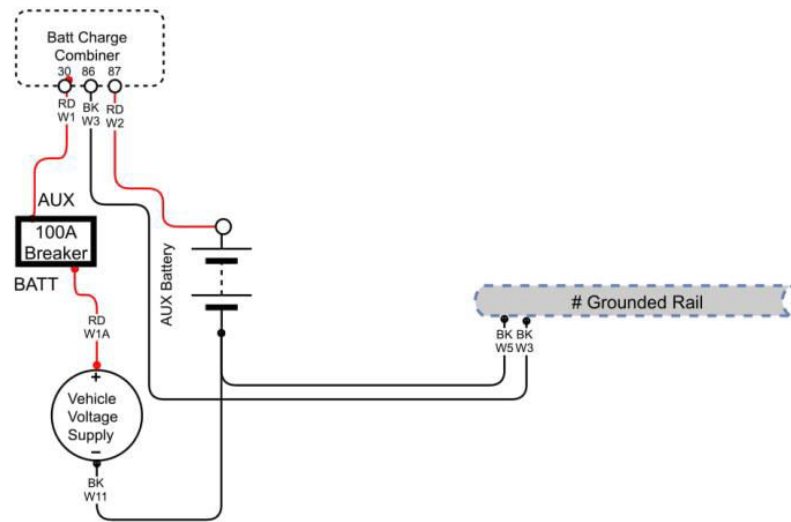
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Master Diagram

1008



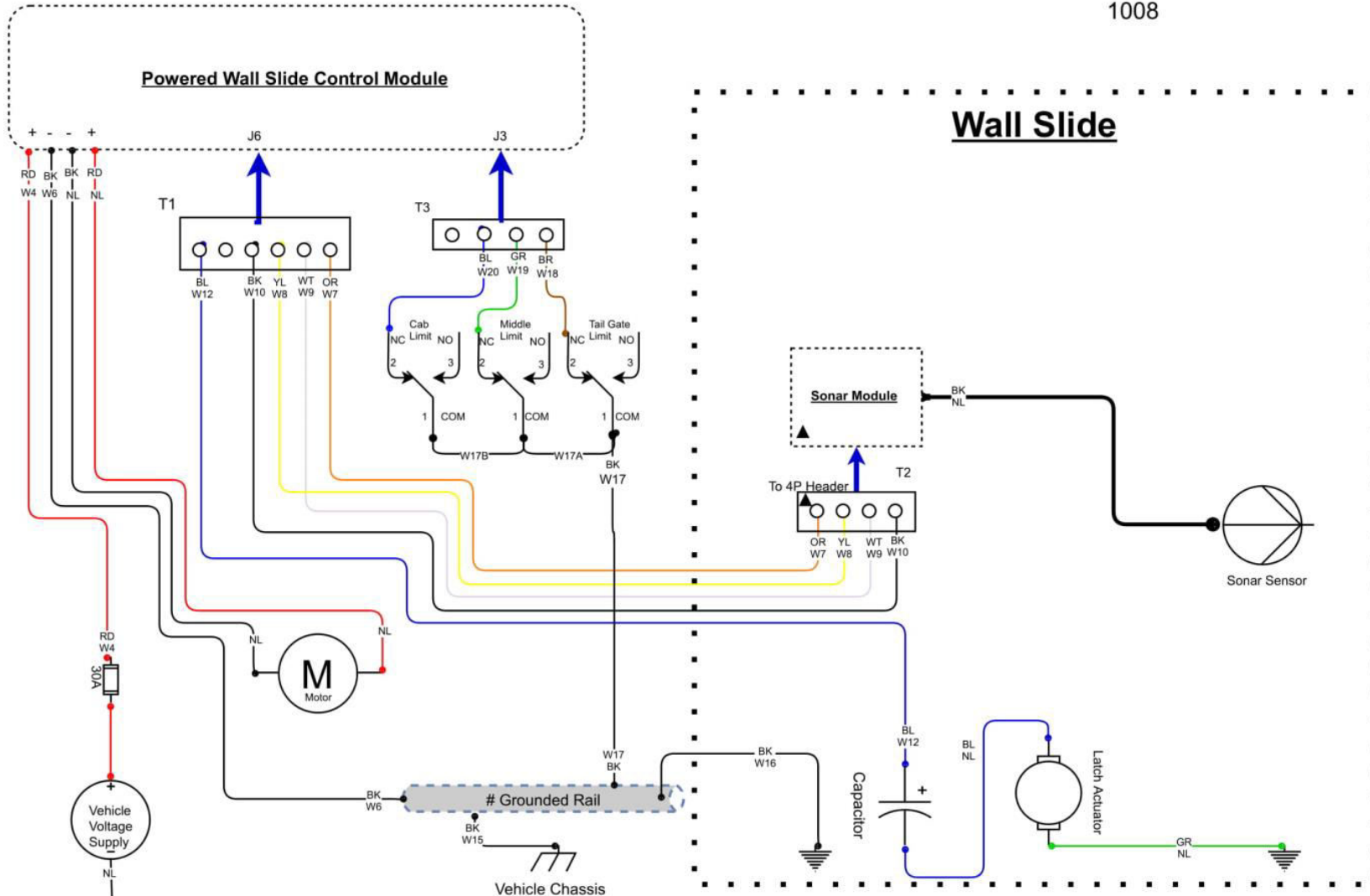
- All grounds should attach to 10-32 tapped holes provided on lower bearing rail, to form a star configuration common reference point.
 D- Battery Side
 OB- Opposite of Battery Side
 C- Canopy
 M-Motor Controller
 NL- Not Labeled

Wire Color Code: WT- White YL- Yellow
 OR- Orange BL- Blue
 RD- Red GR- Green
 VT- Violet BK- Black
 BR- Brown



Master Diagram

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- All grounds should attach to 10-32 tapped holes provided on lower bearing rail, to form a star configuration common reference point.
 D- Battery Side
 OB- Opposite of Battery Side
 C- Canopy
 M-Motor Controller
 NL- Not Labeled

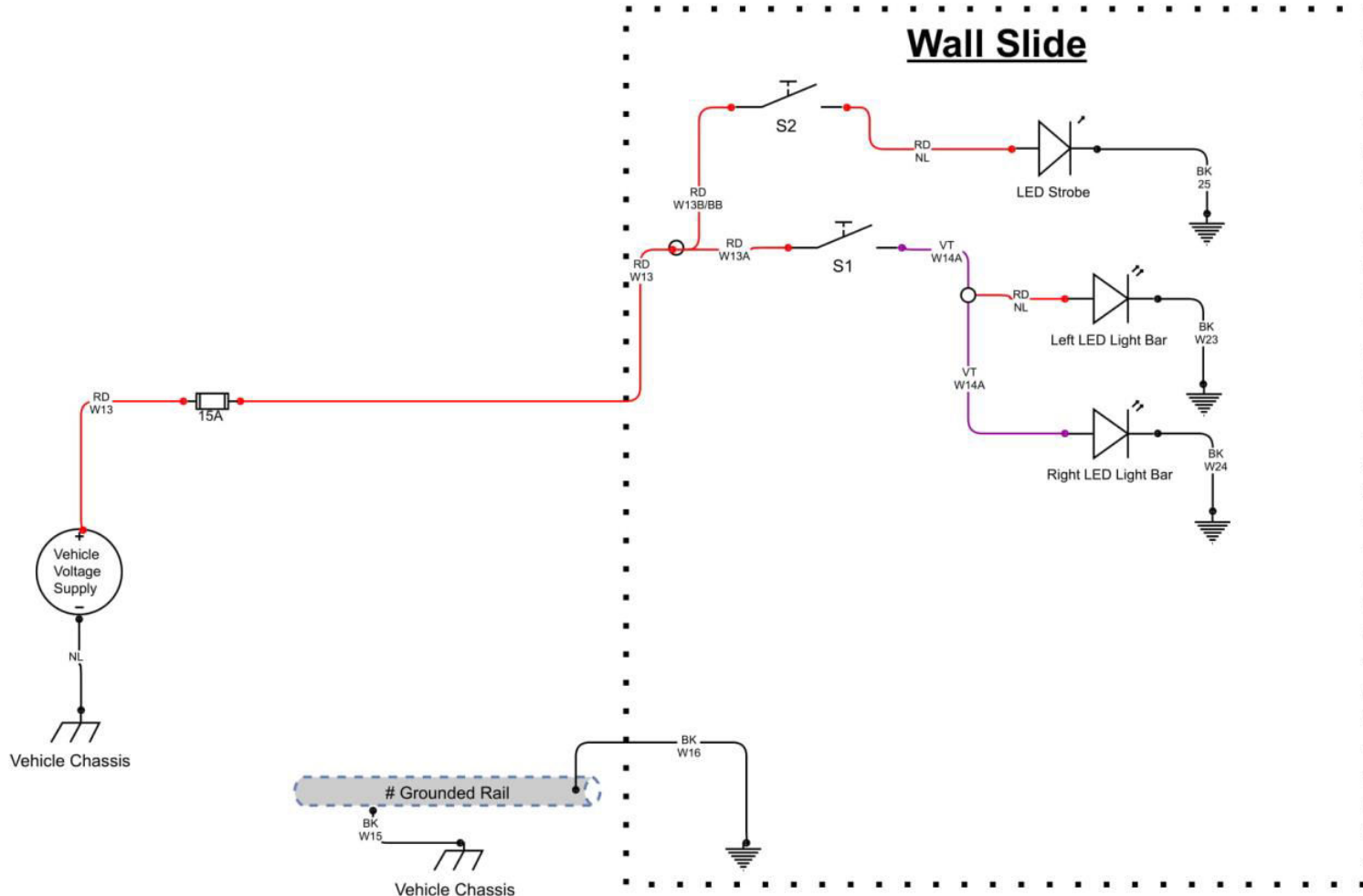
Wire Color Code: WT- White YL- Yellow
 OR- Orange BL- Blue
 RD- Red GR- Green
 VT- Violet BK- Black
 BR- Brown

Vehicle Chassis



Master Diagram

1008



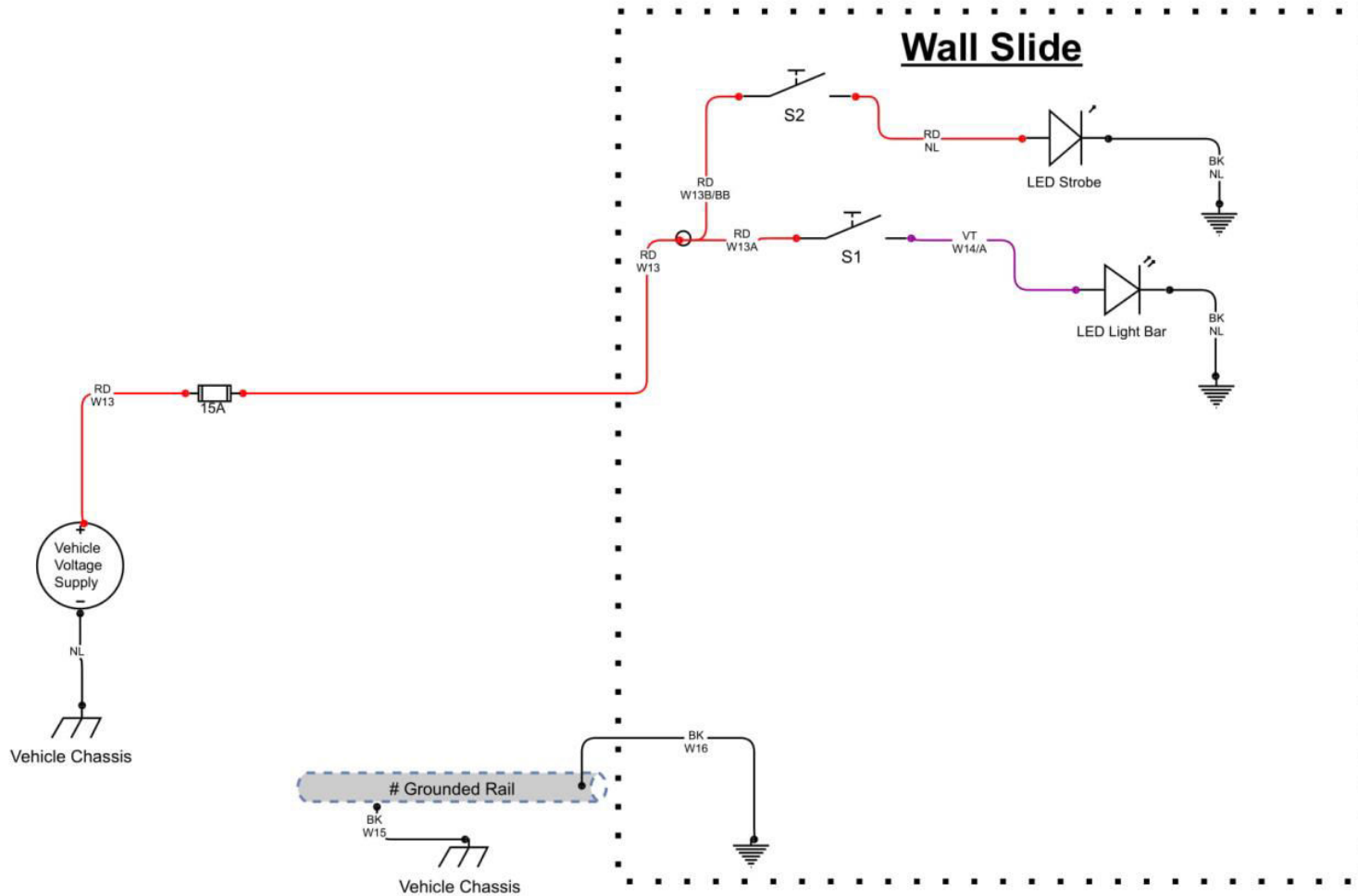
- All grounds should attach to 10-32 tapped holes provided on lower bearing rail, to form a star configuration common reference point.
 D- Battery Side
 OB- Opposite of Battery Side
 C- Canopy
 M- Motor Controller
 NL- Not Labeled

Wire Color Code: WT- White YL- Yellow
 OR- Orange BL- Blue
 RD- Red GR- Green
 VT- Violet BK- Black
 BR- Brown



Master Diagram

1008



- All grounds should attach to 10-32 tapped holes provided on lower bearing rail, to form a star configuration common reference point.
 D- Battery Side
 OB- Opposite of Battery Side
 C- Canopy
 M-Motor Controller
 NL- Not Labeled

Wire Color Code: WT- White YL- Yellow
 OR- Orange BL- Blue
 RD- Red GR- Green
 VT- Violet BK- Black
 BR- Brown

Section 5- Maintenance

Regular maintenance will improve performance and extend the life of the WallSlide system. CargoGlide recommends all maintenance work be performed an authorized WallSlide installer. Regular maintenance, replacement or repair may be performed by any repair shop or person of the owner's choosing. To obtain warranty service free of charge, the work must be performed by an authorized WallSlide installer free of charge. Reference the Warranty Section of the User's Manual.

5.1 Performing Scheduled Maintenance

It is important to perform maintenance as specified in the **Service Schedule** for proper WallSlide operation. CargoGlide recommends a copy of the service schedule is posted on the unit. It is the responsibility of the owner to follow the **Service Schedule**.

5.2 Preparing for Maintenance

Before performing any maintenance, proceed as follows to prevent accidental injury and/or property damage.

1. Park the vehicle on level ground.
2. Remove all excess weight from the walls.
3. Disconnect the red wire lead from the motor to the controller (if equipped)
4. Disconnect the positive (+) terminal on the auxiliary battery (if equipped).

5.3 Fuses

The optional Motorized Wall Kits are equipped with a 30 amp fuse. The fuses protect the system against overload. The Motorized Wall kit's 30 amp fuse is wired in series with the battery output lead to the Motor Control Enclosure. If a fuse element has melted open, the system cannot operate. You should replace the fuse using only an identical 30 amp replacement.

The optional Electrical Kits are equipped with a 15 amp fuse. The fuse protects the system against overload. The Electrical Kit's 15 amp fuse is wired in series with the battery output lead to the light switch. If a fuse element has melted open, the lighting system cannot operate. You should replace the fuse using only an identical 15 amp replacement.

5.4 Lubrication

Please refer to Section 1.5.3 for lubrication locations, lubrication types and lubrication intervals.

!!WARNING!!

Lubrication should only be performed with the WallSlide **UNLOADED** and the vehicle on **LEVEL** ground. Remove all excess item(s) before performing any lubrication service on the unit. Failure to do so may result in personal injury, damage to the unit and/or damage to personal property. CargoGlide

recommends lubrication services are performed by an authorized WallSlide installer. Contact you nearest WallSlide dealer if lubrication service on the system is necessary.

!!CAUTION!!

Use only the lubrication types recommended by CargoGlide. Failure to do so could result in early equipment failure and/or damage to the equipment.

!!CAUTION!!

Any attempts to operate the system without proper lubrication could result in early equipment failure. Follow the lubrication interval as directed in Section 1.5.3.

5.5 Battery Maintenance

If your WallSlide system is equipped with an auxiliary battery, the battery should be regularly inspected per the **Service Schedule**. Contact an authorized WallSlide installer for assistance if necessary.

Proceed as follows to inspect the battery:

1. Drive the wall with the remote or pull by hand to extend the wall outside of the vehicle to expose the Auxiliary Battery.
2. Disconnect the wires from the vehicle's main battery to the Charge Combiner.
3. Disconnect the positive (+) lead on the Auxiliary Battery, followed by the negative (-) lead.
4. Inspect the battery posts and cables for tightness and corrosion. Tighten and clean as necessary.
5. (Unsealed batteries only): Completely disconnect the battery. Check the battery fluid level and, if necessary fill with distilled water only. DO NOT use tap water. Also, have a qualified service technician check the state of the charge and condition.
6. When inspection is complete, reconnect the battery cables and the Charge Combiner wires on the vehicle's main battery.

!!WARNING!!

Explosion! Do not dispose of batteries in a fire. Batteries are explosive. Electrolyte solution can cause burns and blindness. If electrolyte solution contacts the skin or eyes, flush with water and seek immediate medical attention.

!!WARNING!!

Explosion! Batteries emit explosive gases while charging. Keep fire and spark away. Wear protective gear when working with batteries. Failure to do so could result in death or serious injury.

!!WARNING!!

Electrical Shock! Disconnect battery ground terminal before working on battery or battery wires. Failure to do so could result in serious injury.

!!WARNING!!

Risk of Burns! Batteries contain sulfuric acid and can cause severe chemical burns. Wear protective gear when working with batteries. Failure to do so could result in death or serious injury.

!!WARNING!!

Environmental Hazard! Always recycle batteries at an official recycling center in accordance with all local laws and regulations. Failure to do so could result in environmental damage, death or serious injury.

Always recycle batteries in accordance with local laws and regulations. Contact your local solid waste collection site or recycling facility to obtain information on local recycling processes.

Strictly observe the following precautions when working on batteries:

- Disconnect the Charge Combiner as directed in **Battery Maintenance**.
- Remove all jewelry-watches, rings, metal objects, etc.
- Use tools with insulated handles.
- Wear rubber gloves and boots.
- Do not place tools or metallic objects on top of the battery.
- Disconnect the charging source prior to connecting or disconnecting battery terminals.
- Wear full eye protection and protective clothing.
- If electrolyte contacts the skin, wash it off immediately with water.
- If electrolyte contacts the eyes, immediately thoroughly flush with water and seek medical attention.
- Wash down spilled electrolyte with an acid neutralizing agent. A common practice is to use a solution of 1lb (454 g) bicarbonate of soda to 1 gal (3.8 L) of water. Add bicarbonate of soda solution until the evidence of reaction (foaming) has ceased. Flush the resulting liquid with water and dry the area completely.
- DO NOT smoke near the battery.
- DO NOT cause flame or spark in the battery area.
- Discharge the static electricity from the body before touching the battery by first touching a grounded metal surface.

5.6 Corrosion Protection

Regular scheduled maintenance should be conducted to perform a visual inspection of the unit for corrosion. Inspect all metal components of the system, including the framework, wall panels, gear racks, etc. If corrosion is evident on the WallSlide components, replace parts as necessary.

5.7 Service Schedule

Attention: CargoGlide recommends all service work be performed by your nearest WallSlide Installer.

System/Component	Procedure			Frequency
X = Action R= Replace as Necessary *= Notify Installer if Repair is Needed.	Inspect	Change	Clean	M=Monthly Q= Quarterly 6= 6 Months Y= Yearly
Lubrication				
Gear Rack	X	*	X	Y
Pinion Gear	X	*	X	6
Latch Rod/Latch Paddle	X	*		Q
Connecting Rod	X	*		Y
Thumb Latch	X	*		6
Canopy Guide Wheel	X	*		6
Sliding Rail Channel	X	*	X	Y
Bearings	X	*	X	Y
Lower Bearing Rail Edge	X	*	X	Q
Canopy Latch	X	*		Q
Battery				
Remove corrosion, ensure dryness	X		X	M
Clean and tighten battery terminals	X		X	M
Check charge state	X	R		6
Electrolyte level (unsealed batteries only)	X	R		6
General Condition				
Vibration,Noise	*			Y
Check condition of all fasteners	X			Y
Inspect for corrosion	X	X	X	Q
Complete Tune Up	To be completed by an authorized WallSlide Installer			Y

Section 6- Troubleshooting / Quick Reference Guide

WallSlide Troubleshooting

Problem	Cause	Correction
Thumb Latch will not operate	<ol style="list-style-type: none"> 1. Connection bolt too tight 2. Insufficient lubrication. 3. Vehicle not level. 	<ol style="list-style-type: none"> 1. Loosen connection bolt. 2. Lubricate Thumb Latch as per Section 1.5.3. 3. Move vehicle to level ground.
Manual system will not move	<ol style="list-style-type: none"> 1. Latch Paddle not adjusted correctly. 2. Latch Rod not lubricated. 3. Vehicle not level. 	<ol style="list-style-type: none"> 1. Adjust Latch Paddle as per Section 2.1.* 2. Lubricate Latch Rod as per Section 1.5.3 3. Move and park vehicle on level ground.
Lights and/or Strobes will not turn on	<ol style="list-style-type: none"> 1. Blown fuse. 2. Discharged battery. 3. Loose, corroded, or defective battery connection. 4. Loose, corroded, or defective switch connection. 5. Loose, corroded, or defective light connection. 6. Defective light switch. 7. Defective light. 	<ol style="list-style-type: none"> 1. Replace 15 amp fuse. (Contact and authorized WallSlide installer if fuse continues to blow.) 2. Charge or replace battery.* 3. Tighten, clean, or replace as necessary.* 4. See #3.* 5. See #3.* 6. Replace.* 7. Replace.*
Motorized system will not move or moves too slow.	<ol style="list-style-type: none"> 1. Blown Fuse 2. Discharged or low battery. 3. Main breaker is OFF. 4. Object detection is active. 5. Loose, corroded, or defective battery connections. 6. Remote batteries discharged. 7. Poor remote connection. 8. Latches not disengaging. 9. Loose, corroded, or defective motor connections. 10. Loose, corroded, or defective controller connections. 11. Defective limit switches. 12. Defective capacitor. 13. Loose or broken Motor Pinion Gear. 14. Excessive weight placed on wall system. 15. Object detection is defective. 16. Charge combiner is defective. 	<ol style="list-style-type: none"> 1. Replace 30 amp fuse. (Contact and authorized WallSlide installer if fuse continues to blow.) 2. Charge or replace battery. 3. Reset main breaker. (Contact an authorized WallSlide installer if breaker will not reset.) 4. Remove object from wall travel path. 5. Tighten, clean, or replace as necessary.* 6. Replace as necessary.* 7. Try activating remote closer to wall system. (Contact an authorized WallSlide installer if problem persists.) 8. Adjust Latch Paddle as per Section 2.1.* 9. See #5.* 10. See #5.* 11. Replace as necessary.* 12. See #11.* 13. * 14. Adjust to proper weight capacity. 15. * 16. *
Excessive noise and vibration	<ol style="list-style-type: none"> 1. Insufficient lubrication. 2. Loose fasteners. 3. Low battery. 4. Excessive weight placed on wall system. 5. Vehicle not level. 6. Bearing failure. 7. Loose Motor Pinion Gear. 	<ol style="list-style-type: none"> 1. Lubricate as needed. Refer to Section 1.5.3.* 2. Tighten as needed.* 3. Charge or replace battery.* 4. Adjust to proper weight capacity. 5. Move vehicle to level ground. 6. Replace as necessary.* 7. *
*Contact and authorized WallSlide installer for assistance.		

Quick Reference Guide

To clear an active alarm, pull 30 amp fuse, wait for 30 seconds, then re-insert the fuse. If system is equipped with an E-Stop button, simply depress the E-Stop Button and then twist and pull E-Stop Button to reset. If alarm reoccurs, contact an authorized WallSlide installer.

Buzzer Count	Active Alarm	Problem	Things to Check	Solution
1	Overheat- H-Bridge disabled.	<ol style="list-style-type: none"> 1. Insufficient air flow. 2. WallSlide operated on incline surface. 3. Excessive weight. 	<ol style="list-style-type: none"> 1. Object(s) obstructing the Motor Controller. 2. Inspect vehicle level. 3. Verify weight capacity. 	<ol style="list-style-type: none"> 1. Remove obstruction. 2. Relocate vehicle to level ground. 3. Remove excessive weight.
2	Over Current	<ol style="list-style-type: none"> 1. Too much weight on wall. 2. Seized bearing. 3. Latch Paddle did not disengage. 	<ol style="list-style-type: none"> 1. Verify weight capacity. 2. Inspect bearing operation. 3. Inspect Latch Actuator. Verify voltage at capacitor. Verify battery voltage. 	<ol style="list-style-type: none"> 1. Remove excess weight. 2. Replace broken/damaged bearing. 3. Replace Latch Actuator. Replace capacitor. Recharge/replace battery.
3	Sonar Blocked	<ol style="list-style-type: none"> 1. Object detected in sonar path. 2. Dirty sonar. 	<ol style="list-style-type: none"> 1. Check Sonar path. 2. Check Sonar sensor face. 	<ol style="list-style-type: none"> 1. Remove object(s). 2. Wipe off Sonar face.
4	Limit Switch fault during motion	<ol style="list-style-type: none"> 1. Limit Switch unplugged. 2. Limit Switch actuator arm broken or bent. 3. Limit Switch failure. 	<ol style="list-style-type: none"> 1. Verify connections. 2. Check for loose or broken actuator arm. 3. Verify continuity across terminals. 	<ol style="list-style-type: none"> 1. Reconnect Limit Switch terminal(s). 2. Replace Limit Switch(es). 3. Check with multimeter.
5	Limit Switch failed to enable on startup	<ol style="list-style-type: none"> 1. Limit Switch unplugged. 2. Limit Switch actuator arm broken or bent. 3. Limit Switch failure. 	<ol style="list-style-type: none"> 1. Verify connections. 2. Check for loose or broken actuator arm. 3. Verify continuity across terminals. 	<ol style="list-style-type: none"> 1. Reconnect Limit Switch terminal(s). 2. Replace Limit Switch(es). 3. Check with multimeter.
<p>Notes: Buzzer Count- refers to the number of consecutive beeps you will hear before a slight pause. The buzzer count will continue after the pause.</p> <p>Alarm 1 will reset after 30 seconds. Once the H-Bridge cools down, the user can continue using the system.</p> <p>Alarms 1-5 will reset after the alarm sounds twice. The user will then be able to make any corrections to the system and reattempt to use it again. If the fault is not corrected, the system will reissue the alarm.</p>				